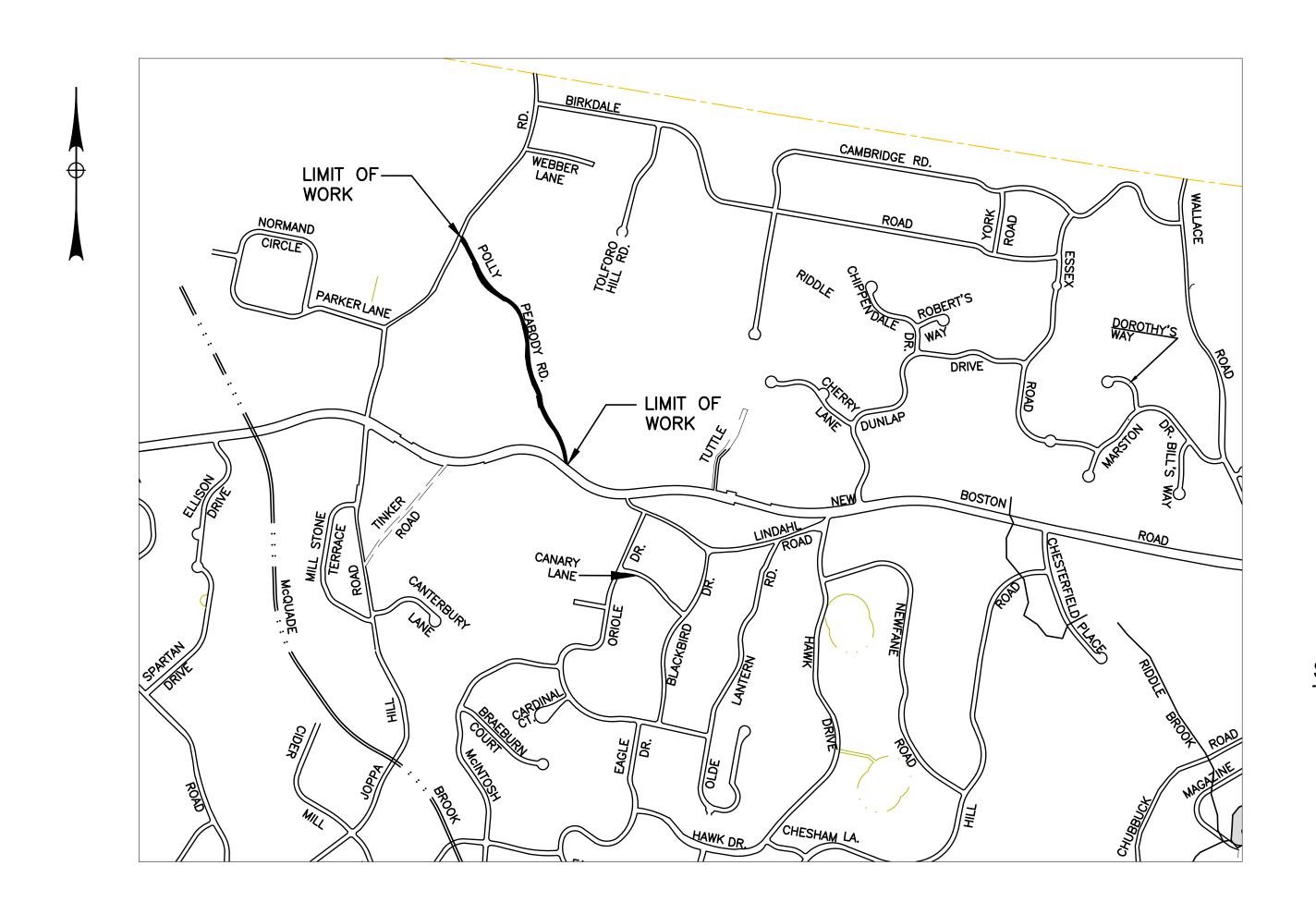
ROADWAY RECONSTRUCTION PLANS POLLY PEABODY ROAD BEDFORD, NEW HAMPSHIRE



BEDFORD PUBLIC WORKS 55 CONSTITUTION DRIVE BEDFORD, NH 03110



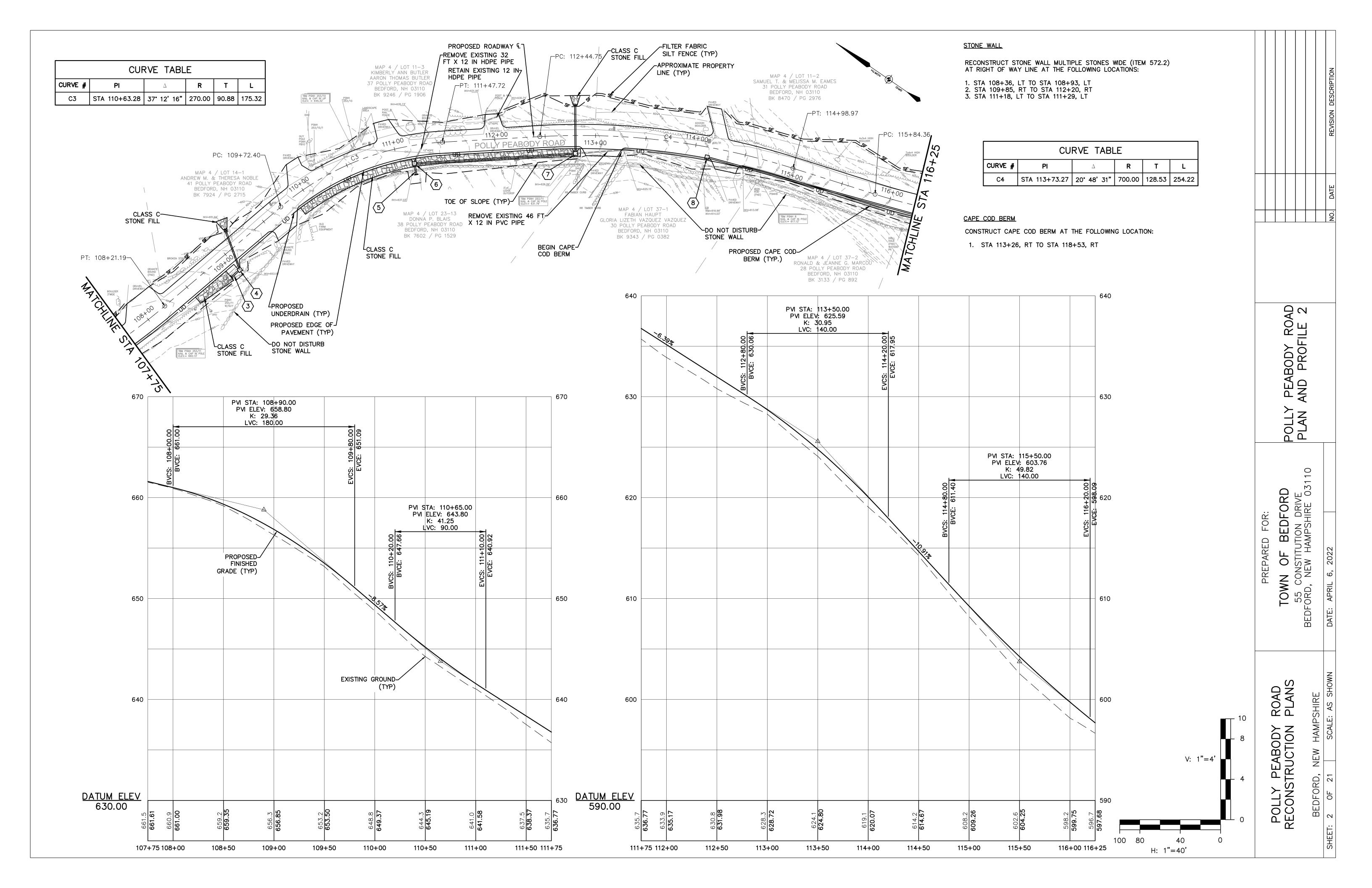


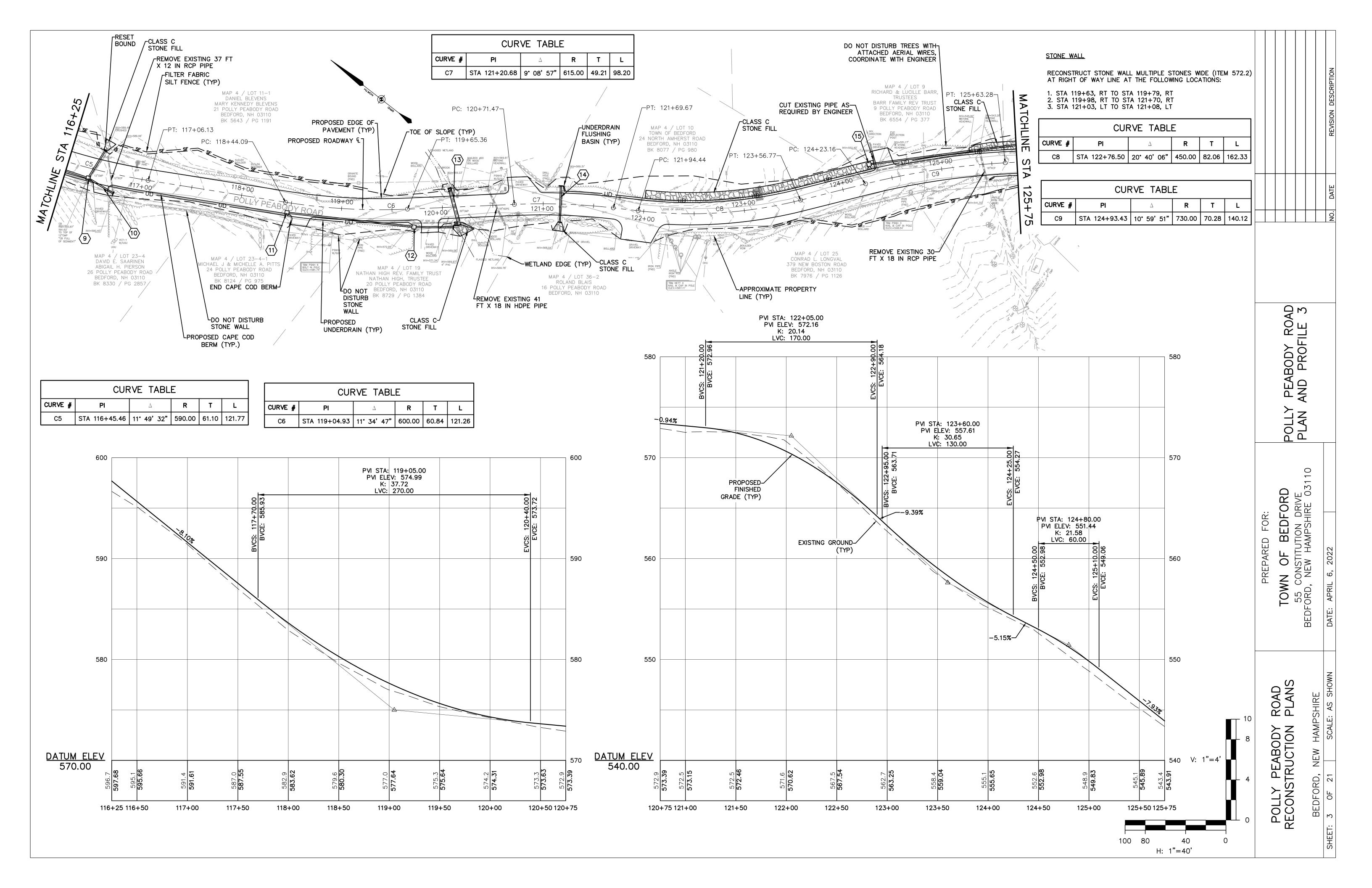
SHEET NO. DESCRIPTION

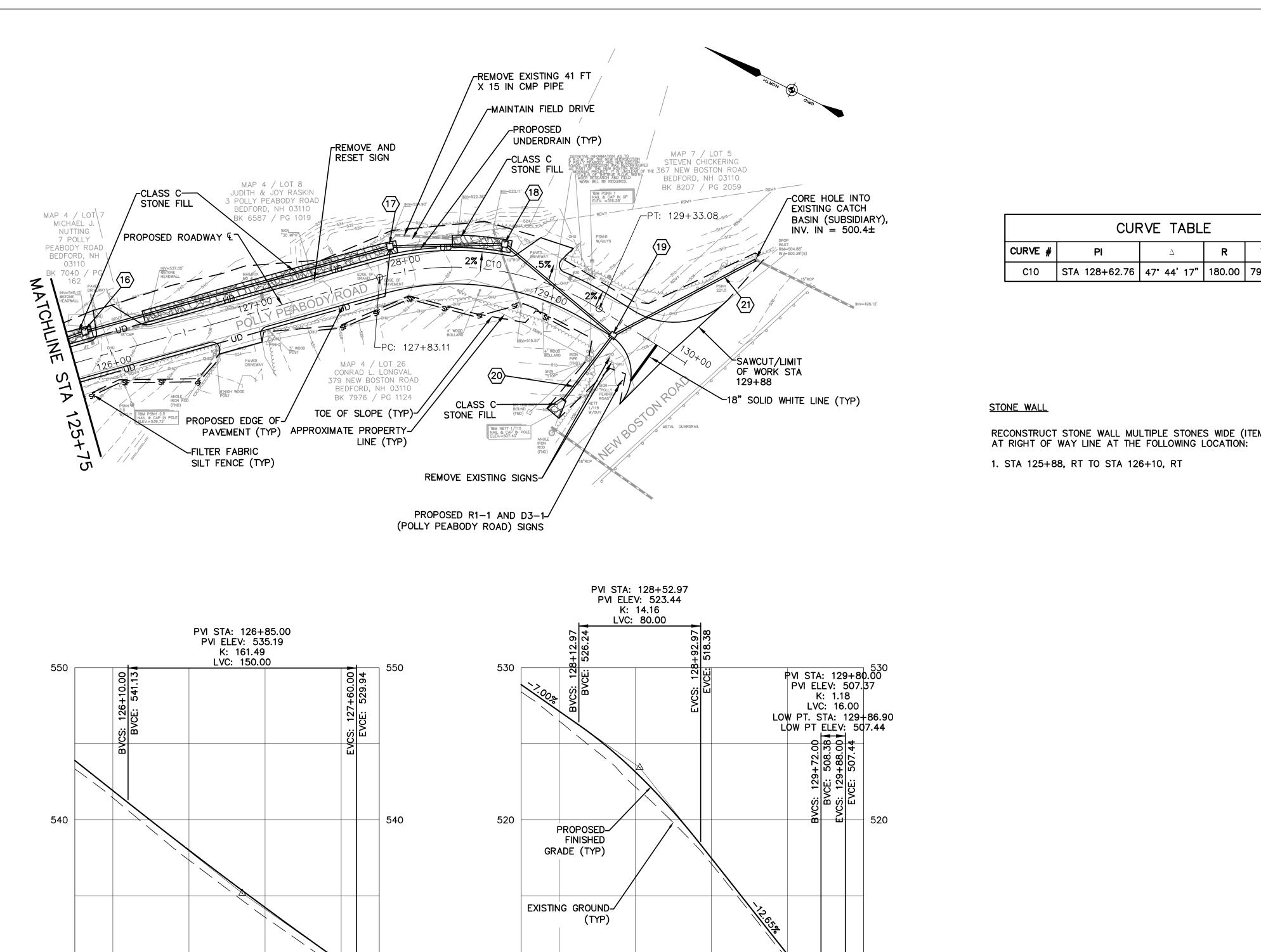
1 - 4 PLAN AND PROFILES
5 DRAINAGE NOTES
6 TYPICAL SECTION
7 ROADWAY DETAILS
8 - 9 DRAINAGE DETAILS
10 EROSION CONTROL DETAILS
11 EROSION CONTROL NOTES
12 - 21 CROSS SECTIONS



	CURVE TABLE curve # Pi Δ R T L C1 STA 100+66.48 33° 33° 33° 33° 95.00 28.65 55.64	
GENERAL CONSTRUCTION NOTES 1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2016 AND "CONTRACT SPECIFICATIONS OF BEDFORD, NH — DEPARTMENT OF PUBLIC WORKS" OF WHICH THESE PLANS ARE A PART. IN THE EVENT ANY DISCREPANCIES EXIST BETWEEN THESE PLANS AND WRITTEN PORTIONS OF THE CONTRACT SPECIFICATIONS, THE CONTENT OF THE WRITTEN SPECIFICATIONS SHALL PREVAIL.	CURVE TABLE	
2. ALL WORK SHALL BE COMPLETED WITHIN THE RIGHT—OF—WAY UNLESS SPECIFIED BY THE PLANS OR THE TOWN ENGINEER. ANY WORK REQUIRED ON PRIVATE PROPERTY SHALL BE COORDINATED WITH THE HOMEOWNER AND THE TOWN ENGINEER TO MINIMIZE INCONVENIENCE AND PROVIDE ACCESS TO THE HOMEOWNER. CONTRACTOR SHALL CONTACT TOWN OF BEDFORD, TOWN ENGINEER, FOR LIMITS OF ALL PROPOSED EASEMENTS PRIOR TO CONSTRUCTION.	18" SOLID WHITE LINE (TYP) SAWCUT/LIMIT OF WORK STA 100+14 MAP 4 / LOT 14 ARCHIBALD L., IV & STACEY E. JACKSON 43 POLLY PEABODY ROAD BEFORD, NH 03110 BK 6723 / PG 1669 PC: 104+95.74 WETLAND EDGE (TYP) REMOVE EXISTING 41 FT X 15 IN HDPE PIPE WETLAND EDGE (TYP) REMOVE AND REMOVE EXISTING 41 FT X 15 IN HDPE PIPE REMOVE EXISTING 41 FT X 15 IN HDPE PIPE REMOVE EXISTING 41 FT X 15 IN HDPE PIPE REMOVE AND REMOVE AND REMOVE AND REMOVE AND REMOVE AND REMOVE AND	
3. CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES PRIOR TO COMMENCEMENT OF THIS WORK.	BK 7931 / PG 691 St EDGE OF GRAVEL PUSH 660 EDGE OF GRAVEL RDV ST	
4. NO EXISTING MONUMENTS, BOUNDS OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.	POLLY PEABODY ROAD 15'HDPE 107+00 107+00 107+00 107+00 107+00 107+00	
5. UNSUITABLE MATERIAL, ROOTS AND STUMPS WITHIN THE LIMITS OF ROADBED SHALL BE REMOVED AS ORDERED.	MAP 4 / LOT 35-22 DONNIE A. & BRANDIE PARKER DONNOT DISTURB DONNOT DISTURB DONNOT DISTURB DONNOT DISTURB	
6. DIMENSIONS, ANGLES, BEARINGS, AND ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM LIMITED FIELD INVESTIGATIONS AND SURVEY AND MAY NOT ACCURATELY REFLECT ACTUAL FIELD CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY PROJECT WORK. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER OR EXTENT OF THE EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ADVANCING THE WORK. SHOP DRAWINGS REQUIRED FOR VARIOUS ITEMS OF THE WORK SHALL INDICATE THE ACTUAL FIELD MEASUREMENTS AND SHALL BE SO NOTED.	446 JOPPA HILL ROAD BEDFORD, NH OS110 BK 7848 / PG 2768 REMOVE AND RESET CURB UNDERDRAIN FLUSHING BASIN (TYP) STONE WALL AN IHONY J. & KAREN CAPPELLO 447 JOPPA HILL ROAD BEDFORD, NH OS110 BK 6975 / PG 1365 WAP 4 / LOT 22-2 WILLIAM AS DAWN DONAHUE 42 POLLY PEABOLY ROAD BEDFORD, NH OS110 BK 6975 / PG 1365 WAP 4 / LOT 22-2 WILLIAM AS DAWN DONAHUE 42 POLLY PEABOLY ROAD BEDFORD, NH OS110 BK 6977 / PG 711	ABODY ROAD PROFILE 1
7. REMOVE TOPSOIL FOR ITS TOTAL DEPTH WITHIN THE LIMITS OF THE SLOPE LINES. UNLESS OTHERWISE DIRECTED, STOCKPILE TOPSOIL AND USE IT ON THIS PROJECT AS NEEDED UNDER SECTION 646.	CUT EXISTING PIPE AS— REQUIRED BY ENGINEER	.≺ PEA
8. THE CONTRACTOR SHALL CONTACT DIGSAFE AT 811 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION.	680	POLLY
9. SHOULD ANY ALTERING, ADJUSTING, OR RELOCATING OF UTILITIES BE REQUIRED, THIS WORK SHALL BE COMPLETED BY THE APPROPRIATE UTILITY COMPANY AND IS NOT PART OF THIS CONTRACT. HOWEVER, THE CONTRACTOR SHALL FACILITATE THE UTILITY COMPANY IN THEIR PERFORMANCE OF THIS WORK.	PVI ELEV: 663.43 K: 40.28 LVC: 200.00 LVC: 150.00 V V V V V V V V V	110 P
10. ANY DITCHLINES THAT EXCEED 6 PERCENT IN GRADE SHALL BE LINED WITH RIP-RAP OR TURF REINFORCEMENT MATTING AS SPECIFIED ON THE PLANS.		JRD IIVE E 03.
11. ALL SIGNS, MAILBOXES, PROPERTY BOUNDS, ETC. DISTURBED BY THE CONSTRUCTION ACTIVITIES SHALL BE RESET BY THE CONTRACTOR OR HIS AGENT.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	FOR: SEDFOI ION DRI MPSHIRE
12. SAWCUT ALL EXISTING PAVEMENT AT LIMITS OF WORK. 13. CONTRACTOR SHALL COORDINATE WITH THE FIELD ENGINEER	PROPOSED- FINISHED GRADE (TYP)	PARED OF E STITUTI
AND REMOVE TREES AS NECESSARY TO COMPLETE THE WORK AND/OR AS DIRECTED BY THE TOWN ENGINEER.	0.62%	PREPA NEW NEW
14. CONSTRUCT PAVED DRIVE APRON FOR ALL EXISTING DRIVEWAYS AS DIRECTED.	-2.44%	F. COWING 55 COND.
15. ALL NEW EMBANKMENT SLOPES SHALL BE LOAMED AND SEEDED. MULCH AS DIRECTED.	EXISTING GROUND-/ (TYP)	T
16. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR TRAFFIC CONTROL AND ASSOCIATED SIGNAGE AND WARNING DEVICES DURING EXECUTION OF THIS CONTRACT.17. CATCH BASIN RIM ELEVATIONS SHALL BE SET TO ASPHALT	660	Ш
BINDER GRADE. FUTURE WEARING COURSE SHALL TAPER INTO THE GRATE.		
18. GROUND SURVEY AND BASE PLAN PROVIDED BY SANDFORD SURVEYING AND ENGINEERING, BEDFORD, NH.19. TYPICAL SECTIONS AND DETAILS PROVIDED BY TOWN OF		ROAD PLANS
BEDFORD, NH. 20. EXPOSED SOILS IN DELINEATED WETLANDS AT OUTFALLS AND	DATUM ELEV	0 □
ALONG SWALES WILL BE SEEDED WITH ERNMX—183, NATIVE DETENTION AREA SEED MIX, OR EQUIVALENT.	$\begin{bmatrix} 650.00 \end{bmatrix}$	ODY TION
21. CONTRACTOR TO MAINTAIN EXISTING DRIVE PIPES UNLESS OTHERWISE NOTED. 22. INSTALL INLET PROTECTION IN ALL EXISTING AND PROPOSED.	A: 1, =4, = 664.9	EAB(UCT
22. INSTALL INLET PROTECTION IN ALL EXISTING AND PROPOSED CATCH BASINS (SEE EROSION CONTROL DETAILS). INLET PROTECTION SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.	100+00 100+50 101+00 101+50 102+00 102+50 103+00 103+50 104+00 104+50 105+00 105+50 106+00 106+50 107+00 107+50 107+75	POLLY PE RECONSTRI BEDFORD,
	100 80 40 0 H: 1"=40'	







0.93%-

129+50

500

130+00

GRADE BREAK STA = 129+88.00_/ ELEV = 507.44

129+00

530

127+50 127+75

DATUM ELEV 520.00

125+75 126+00

126+50

127+00

510

526.5 **527.14**

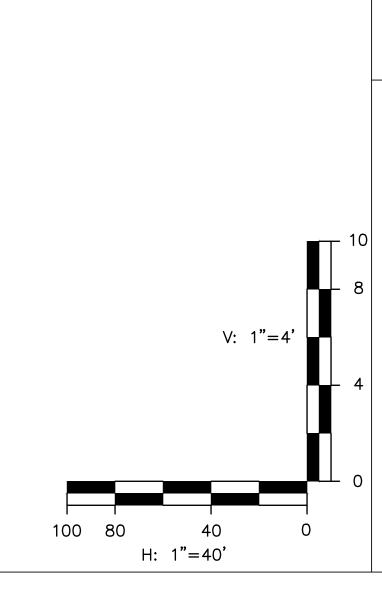
128+50

127+75 128+00

DATUM ELEV 500.00

CURVE TABLE					
CURVE #	PI	Δ	R	Т	L
C10	STA 128+62.76	47° 44' 17"	180.00	79.65	149.97

RECONSTRUCT STONE WALL MULTIPLE STONES WIDE (ITEM 572.2)



' PEABODY ROAD AND PROFILE 4

POLLY PLAN

RD

PREPARED FOR:

TOWN OF BEDFOR 55 CONSTITUTION DRIV BEDFORD, NEW HAMPSHIRE

ROAD PLANS

POLLY PEABODY RECONSTRUCTION

0

- STA 102+55.0, LT 24.0' TO STA 102+55.0, RT 18.0'
 CONSTRUCT 42 FT X 18 IN RCP, 2000D

 18 IN INV. © INLET = 660.30

 18 IN INV. © OUTLET = 659.00
 CONSTRUCT MORTAR RUBBLE MASONRY HEADWALL © INLET AND OUTLET REMOVE EXISTING 42 FT X 15 IN HDPE PIPE (SUBSIDIARY)
 CONNECT (2)-6 IN UNDERDRAIN PIPES © DOWNSTREAM HEADWALL
- STA 104+64.0, RT 22.0' TO STA 104+95.0, RT 22.0'
 REMOVE AND RESET EXISTING 31 FT X 12 IN HDPE DRIVE PIPE
 12 IN INV. @ INLET = 663.30
 12 IN INV. @ OUTLET = 663.10
- 3 STA 109+01.0, RT 21.0' TO STA 108+90.0, RT 21.0' CONSTRUCT 11 FT X 15 IN RCP, 2000D
 15 IN INV. @ INLET = 653.60
 CONSTRUCT MORTAR RUBBLE MASONRY HEADWALL @ INLET
- STA 109+16.0, LT 19.0' TO STA 109+01.0, RT 21.0'
 CONSTRUCT 43 FT X 15 IN RCP, 2000D
 CONSTRUCT SLAB TOP CB-E @ STA 109+01.0, RT 21.0'
 15 IN INV. IN = 652.50
 15 IN INV. OUT = 652.40
 15 IN INV. @ OUTLET = 651.80
 GRATE ELEV. = 656.00
 CONSTRUCT MORTAR RUBBLE MASONRY HEADWALL @ OUTLET
 REMOVE EXISTING 30 FT X 12 IN RCP PIPE (SUBSIDIARY)
 CONNECT (2)-6 IN UNDERDRAIN PIPES TO NEW STRUCTURE (SEE NOTE)
- STA 111+17.0, RT 18.0' TO STA 111+17.0, RT 29.0'
 CONSTRUCT 11 FT X 15 IN RCP, 2000D
 15 IN INV. @ INLET = 639.00
 CONSTRUCT MORTAR RUBBLE MASONRY HEADWALL @ INLET
- STA 112+80.0, RT 18.0' TO STA 111+17.0, RT 18.0'
 CONSTRUCT 160 FT X 15 IN RCP, 2000D
 CONSTRUCT SLAB TOP CB-G @ STA 111+17.0, RT 18.0'
 15 IN INV. IN = 635.65
 15 IN INV. OUT = 634.55
 GRATE ELEV. = 639.15
 CONNECT (2)-6 IN UNDERDRAIN PIPES TO NEW STRUCTURE (SEE NOTE)
- STA 112+80.0, LT 30.0' TO STA 112+80.0, RT 18.0'
 CONSTRUCT 48 FT X 15 IN RCP, 2000D
 CONSTRUCT SLAB TOP CB-G © STA 112+80.0, RT 18.0'
 15 IN INV. IN = 625.10
 15 IN INV. OUT = 625.00
 15 IN INV. © OUTLET = 622.00
 GRATE ELEV. = 628.80
 CONSTRUCT MORTAR RUBBLE MASONRY HEADWALL © OUTLET
 CONNECT (2)-6 IN UNDERDRAIN PIPES TO NEW STRUCTURE (SEE NOTE)
- STA 116+48.0, RT 10.0' TO STA 114+13.0, RT 10.0'
 CONSTRUCT 235 FT X 15 IN RCP, 2000D
 CONSTRUCT CB-F @ STA 114+13.0, RT 10.0'
 15 IN INV. OUT = 612.85
 GRATE ELEV. = 618.35
 REMOVE EXISTING 39 FT X 12 IN CMP PIPE (SUBSIDIARY)
 REMOVE EXISTING CATCH BASIN (SUBSIDIARY)
 CONNECT (2)-6 IN UNDERDRAIN PIPES TO NEW STRUCTURE (UNDERDRAIN TO MATCH CROWN WITH 15 IN INV. OUT)
- STA 116+58.0, LT 21.0' TO STA 116+48.0, RT 10.0'
 CONSTRUCT 33 FT X 15 IN RCP, 2000D
 CONSTRUCT CB-F © STA 116+48.0, RT 10.0'
 15 IN INV. IN = 590.55
 15 IN INV. IN = 590.55
 15 IN INV. OUT = 590.45
 15 IN INV. © OUTLET = 589.00
 GRATE ELEV. = 595.50
 REMOVE EXISTING 34 FT X 12 IN CMP PIPE (SUBSIDIARY)
 REMOVE EXISTING CATCH BASIN (SUBSIDIARY)
 CONSTRUCT MORTAR RUBBLE MASONRY HEADWALL © OUTLET CONNECT (2)-6 IN UNDERDRAIN PIPES TO NEW STRUCTURE (UNDERDRAIN TO MATCH CROWN WITH 15 IN INV. OUT)
- STA 116+48.0, RT 10.0' TO STA 116+75.0, RT 19.0'
 CONSTRUCT 29 FT X 15 IN RCP, 2000D
 15 IN INV. @ INLET = 590.75
 CONSTRUCT MORTAR RUBBLE MASONRY HEADWALL @ INLET
- \$\left(11\right)\$ STA 119+71.0, RT 18.0' TO STA 118+47.0, RT 10.0'

 CONSTRUCT 127 FT X 15 IN RCP, 2000D

 CONSTRUCT CB-F @ STA 118+47.0, RT 10.0'

 15 IN INV. OUT = 575.95

 GRATE ELEV. = 580.15

 CONNECT (2)-6 IN UNDERDRAIN PIPES TO NEW STRUCTURE (SEE NOTE)

- STA 120+10.0, RT 20.0' TO STA 119+71.0, RT 18.0'
 CONSTRUCT 39 FT X 15 IN RCP, 2000D

 CONSTRUCT SLAB TOP CB-E @ STA 119+71.0, RT 18.0'
 15 IN INV. IN = 569.65
 15 IN INV. OUT = 569.55
 15 IN INV. @ OUTLET = 569.10
 GRATE ELEV. = 573.70
 CONSTRUCT MORTAR RUBBLE MASONRY HEADWALL @ OUTLET
 REMOVE EXISTING 40 FT X 12 IN PVC PIPE (SUBSIDIARY)
 CONNECT 6 IN UNDERDRAIN PIPE TO NEW STRUCTURE (SEE NOTE)
- STA 120+16.0, RT 18.0' TO STA 120+08.0, LT 19.0'
 CONSTRUCT 38 FT X 36 IN RCP, 2000D
 36 IN INV. @ INLET = 568.80
 36 IN INV. @ OUTLET = 568.60
 CONSTRUCT MORTAR RUBBLE MASONRY HEADWALL @ INLET AND OUTLET REMOVE EXISTING 30 FT X 30 IN CMP PIPE (SUBSIDIARY)
- STA 121+17.0, RT 18.0' TO STA 121+17.0, LT 18.0'
 CONSTRUCT 36 FT X 15 IN RCP, 2000D
 15 IN INV. @ INLET = 569.30
 15 IN INV. @ OUTLET = 569.05
 CONSTRUCT MORTAR RUBBLE MASONRY HEADWALL @ INLET AND OUTLET REMOVE EXISTING 26 FT X 12 IN RCP PIPE (SUBSIDIARY)
- STA 125+87.0, LT 18.0' TO STA 124+31.0, LT 18.0'
 CONSTRUCT 159 FT X 15 IN RCP, 2000D

 CONSTRUCT SLAB TOP CB-G © STA 124+31.0, LT 18.0'
 15 IN INV. OUT = 548.50
 GRATE ELEV. = 552.70

 REMOVE EXISTING 93 FT X 15 IN CMP PIPE (SUBSIDIARY)
 CONNECT (2)-6 IN UNDERDRAIN PIPES TO NEW STRUCTURE (SEE NOTE)
- \$\text{16}\$ STA 127+94.0, LT 18.0' TO STA 125+87.0, LT 18.0' CONSTRUCT 208 FT X 18 IN RCP, 2000D CONSTRUCT CB-G @ STA 125+87.0, LT 18.0' 15 IN INV. IN = 537.40 18 IN INV. OUT = 537.15 GRATE ELEV. = 541.60 REMOVE EXISTING 41 FT X 18 IN CMP PIPE (SUBSIDIARY)
- STA 128+63.0, LT 18.0' TO STA 127+94.0, LT 18.0'

 CONSTRUCT 75 FT X 18 IN RCP, 2000D

 CONSTRUCT CB-E @ STA 127+94.0, LT 18.0'

 18 IN INV. IN = 521.85

 18 IN INV. OUT = 521.75

 GRATE ELEV. = 526.30

 REMOVE EXISTING 41 FT X 15 IN CMP PIPE

 CONNECT (3)-6 IN UNDERDRAIN PIPES TO NEW STRUCTURE (SEE NOTE)
- STA 129+50.0, RT 10.0' TO STA 128+63.0, LT 18.0'
 CONSTRUCT 93 FT X 18 IN RCP, 2000D
 CONSTRUCT CB-E @ STA 128+63.0, LT 18.0'
 18 IN INV. IN = 516.25
 18 IN INV. OUT = 516.15
 GRATE ELEV. = 520.70
 REMOVE EXISTING 54 FT X 12 IN RCP PIPE
 CONNECT 6 IN UNDERDRAIN PIPE TO NEW STRUCTURE (SEE NOTE)
- (19) CONSTRUCT SLAB TOP CB-F @ STA 129+50.0, RT 10.0'
 18 IN INV. IN = 506.85
 18 IN INV. OUT (W) = 506.85
 15 IN INV. OUT (E) = 506.85
 GRATE ELEV. = 510.85
- STA 129+45.0, RT 63.0' TO STA 129+50.0, RT 10.0' CONSTRUCT 53 FT X 18 IN RCP, 2000D

 18 IN INV. @ OUTLET = 503.00
 CONSTRUCT MORTAR RUBBLE MASONRY HEADWALL @ OUTLET
- STA 130+00.0, LT 81.0' TO STA 129+50.0, RT 10.0' CONSTRUCT 106 FT X 15 IN RCP, 2000D

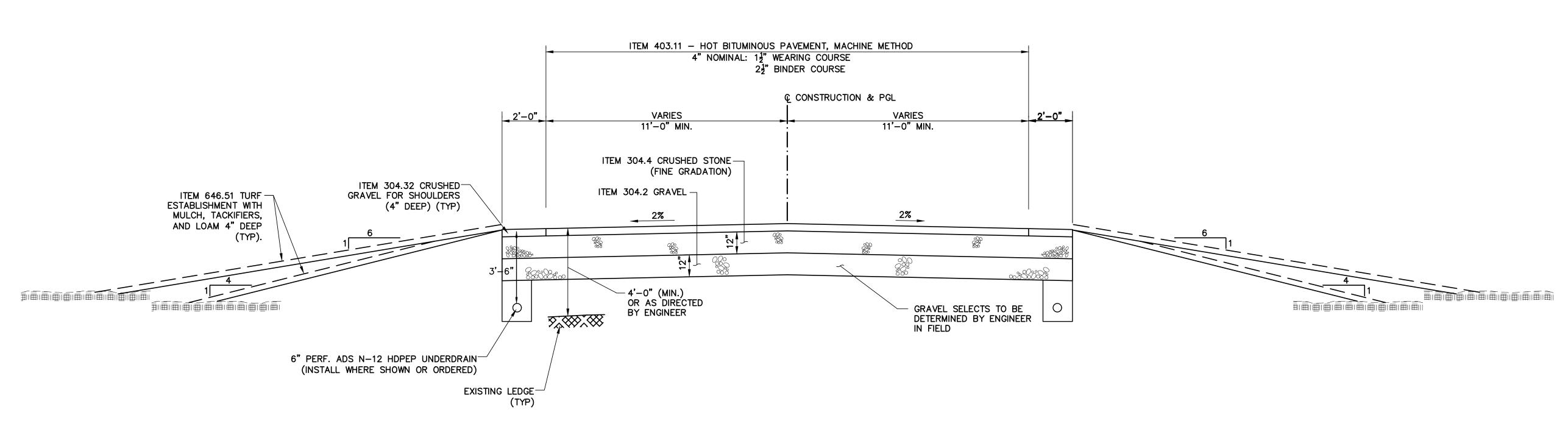
 15 IN INV. © EXISTING CB = 500.4±

 CORE HOLE INTO EXISTING CATCH BASIN (SUBSIDIARY)

NOTE:

UNDERDRAIN INVERT INTO STRUCTURE SHALL BE A MINIMUM 6 IN ABOVE INVERT OF DRAINAGE PIPE OUT OF STRUCTURE WHILE MAINTAINING POSITIVE DRAINAGE. UNDERDRAIN INVERT OUT OF STRUCTURE AT A MINIMUM SHALL MATCH CROWN OF DRAINAGE PIPE OUT OF STRUCTURE. UNDERDRAIN COVER SHALL BE 3 FT 6 IN AND MAY ONLY VARY DUE TO THE ABOVE REQUIREMENTS. COORDINATE WITH ENGINEER.

NEPARED FOR: NOF BEDFORD ONSTITUTION DRIVE NEW HAMPSHIRE 03110 6, 2022 NEPARED FOR: DRAINAGE NOTES	TOWN OF BEDFORD 55 CONSTITUTION DRIVE BEDFORD, NEW HAMPSHIRE 03110 NO.						E REVISION DESCRIPTI
NEPARED FOR: NOF BEDFORD ONSTITUTION DRIVE NEW HAMPSHIRE 03110 6, 2022	TOWN OF BEDFORD 55 CONSTITUTION DRIVE BEDFORD, NEW HAMPSHIRE 03110 NN DATE: APRIL 6, 2022						NO. DATE
PREPARED FOR: OWN OF BEDFORD 5 CONSTITUTION DRIVE RD, NEW HAMPSHIRE 03110 PRIL 6, 2022	TOW 55 (BEDFORD,			DRAINAGE NOIES			
	BEDF IN DATE:	PREPARED FOR:	OWN OF BEDFORD	S CONSTITUTION DRIVE	RD, NEW HAMPSHIRE 03110		
POLLY PEABODY ROAD RECONSTRUCTION PLANS BEDFORD, NEW HAMPSHIRE T: 5 OF 21 SCALE: AS SHOWN	. _ · · · · ·		RECO			סבטר	SHEET: 5 OF 21



SECTION

TYPICAL

10

RD IVE 03

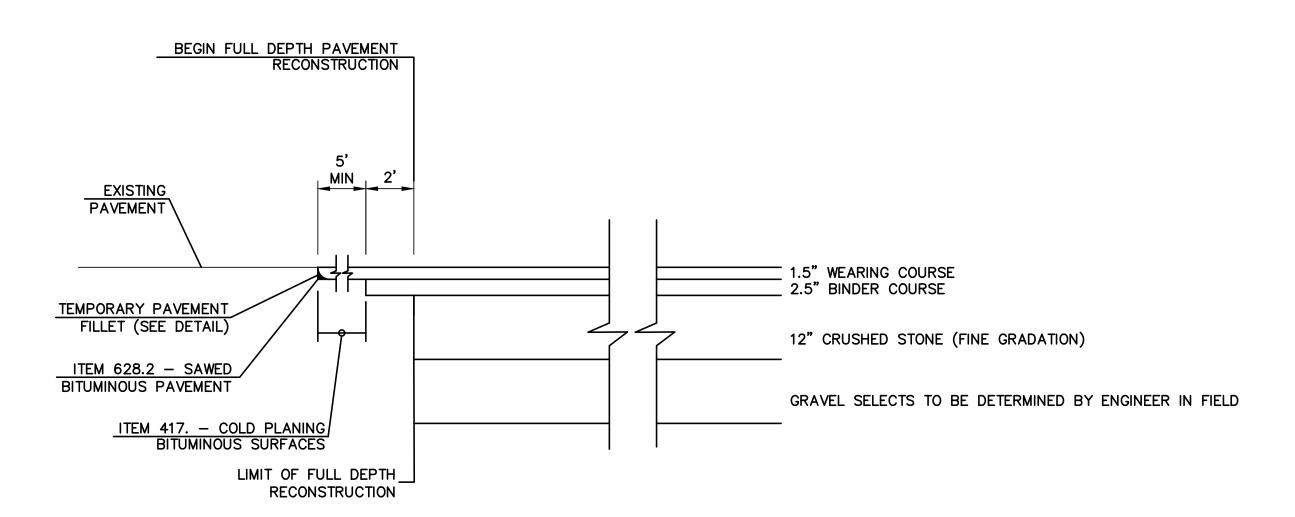
TOWN OF BEDFOR 55 CONSTITUTION DRIV BEDFORD, NEW HAMPSHIRE

ROAD PLANS

POLLY PEABODY RECONSTRUCTION

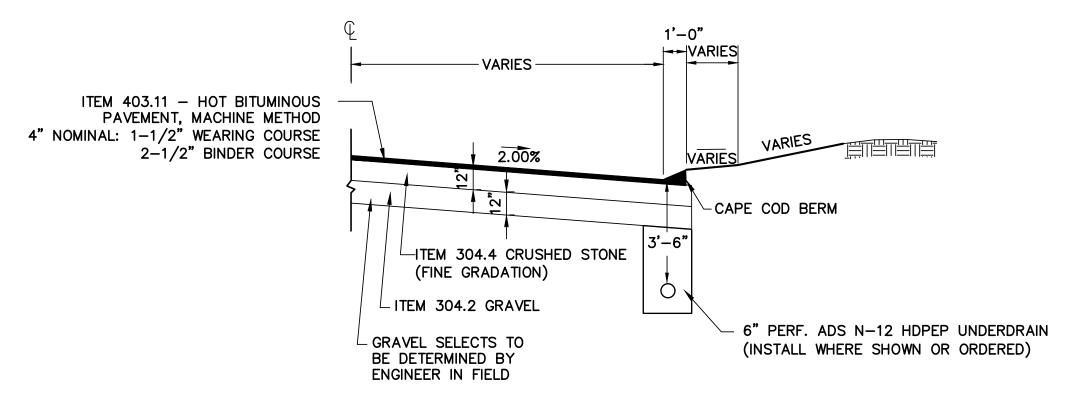
POLLY PEABODY ROAD FULL DEPTH RECONSTRUCTION

TYPICAL SECTION



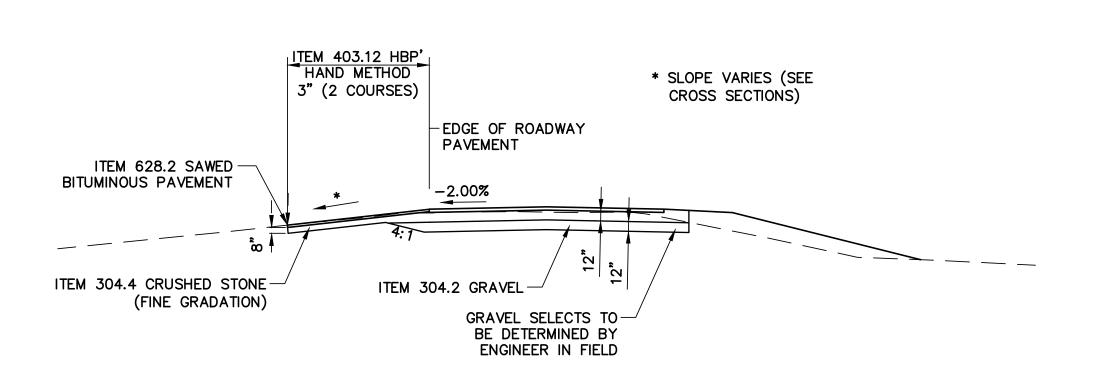
END PAVEMENT AND BASE COURSE TRANSITION

NOT TO SCALE



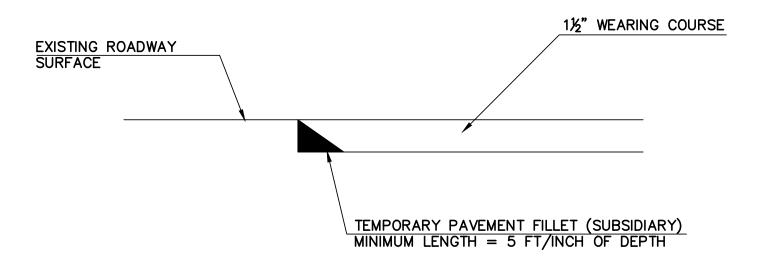
CAPE COD BERM SECTION

NOT TO SCALE



DRIVE DETAIL

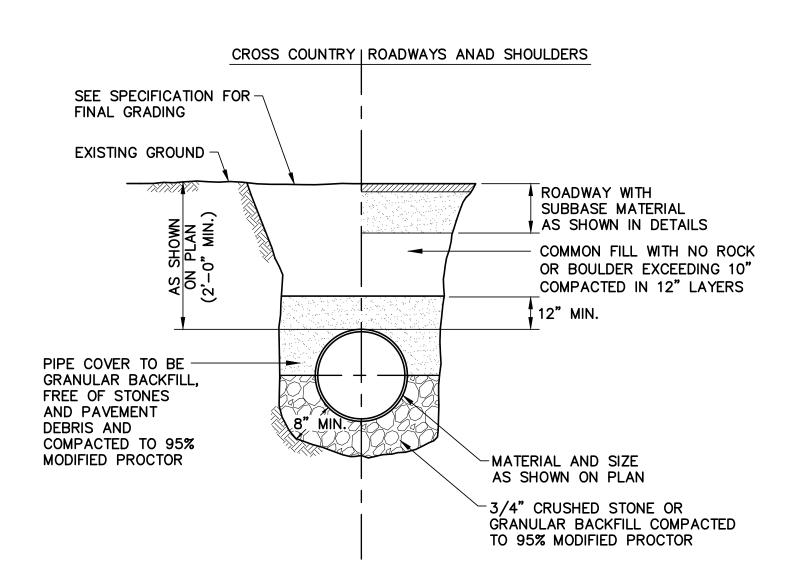
NOT TO SCALE



TEMPORARY PAVEMENT FILLET DETAIL

NOT TO SCALE

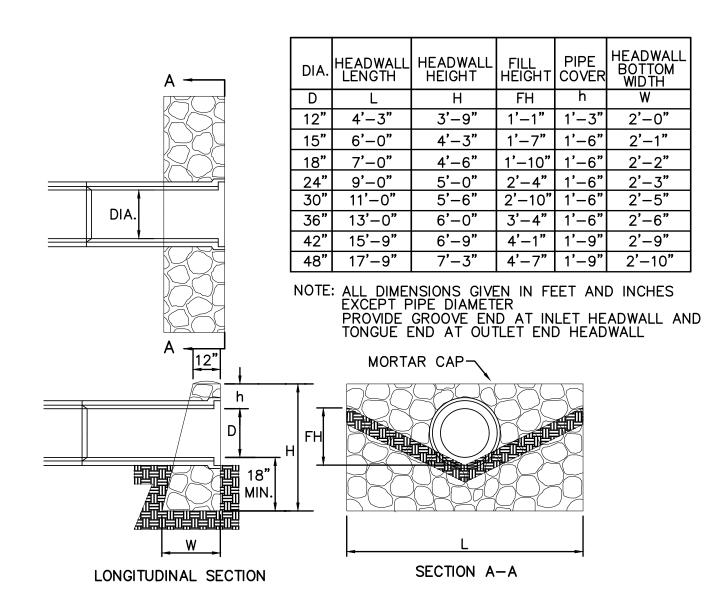
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	האפהאארם הסא.	TOWN OF BEDEORD		55 CONSTITUTION DRIVE	BEDFORD, NEW HAMPSHIRE 03110		DATE: APRIL 6, 2022
Y PEABODY ROAD STRUCTION PLANS ORD, NEW HAMPSHIRE					W NAMPONIAE	SCALE: AS SHOWN	
		POLLI PEA	RECONSTRUC			BEUFURU, NE	SHEET: 7 OF 21



NOTES:
1. ALL EXCAVATION AND BACKFILL FOR TRENCH TO BE SUBSIDIARY TO PIPE CONSTRUCTION PAY ITEM.

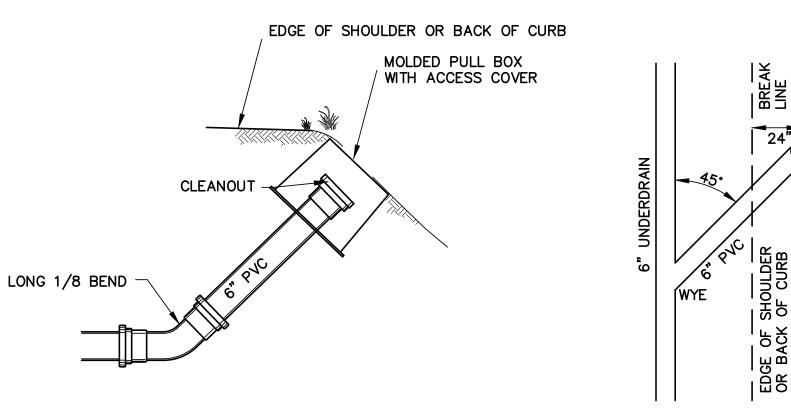
DRAIN PIPE TRENCH

NOT TO SCALE



MORTAR RUBBLE MASONRY HEADWALL DETAIL

NOT TO SCALE

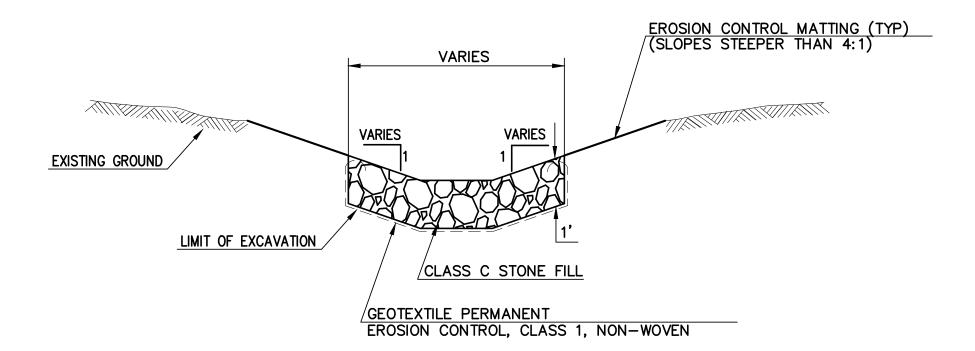


NOTES:

- 1. THE UNDERDRAIN FLUSHING BASIN SHALL INCLUDE ALL REQUIRED RISER PIPE, 45° WYE, LONG BEND, CROSS PIPE, CLEANOUT, PULL BOX AND REQUIRED BACKFILL.
- 2. A DELINEATION REFLECTOR SHALL BE USED AS A WITNESS MARKER.
- 3. FLUSHING BASINS SHALL BE PLACED AT THE BEGINNING (HIGH POINT) OF THE UNDERDRAIN AND AT A 300 FOOT SPACING.

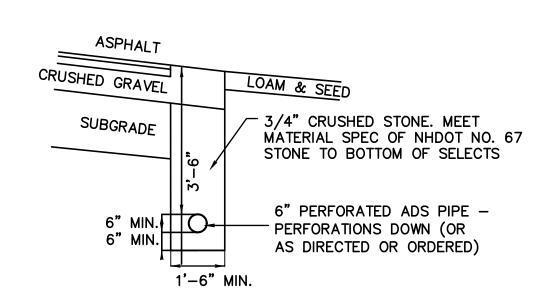
UNDERDRAIN FLUSHING BASIN

NOT TO SCALE



STONE FILL CHANNEL

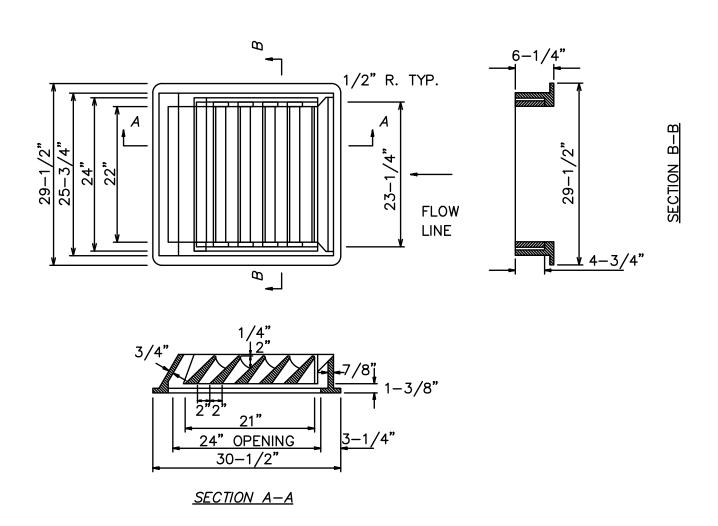
NOT TO SCALE



UNDERDRAIN DETAIL

NOT TO SCALE

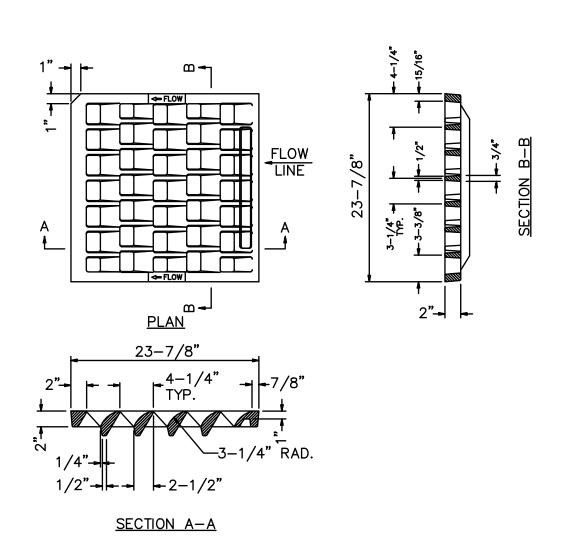
			DATE REVISION DESC
			ON
	DRAINAGE DETAILS 1		
THETARED FOR:	55 CONSTITUTION DRIVE	BEDFORD, NEW HAMPSHIRE 03110	DATE: APRIL 6, 2022
BODY ROAD	CTION PLANS	BEDFORD, NEW HAMPSHIRE	SCALE: AS SHOWN
POLLY PEABODY ROAD RECONSTRUCTION PLANS		BEDFORD, NE	SHEET: 8 OF 21

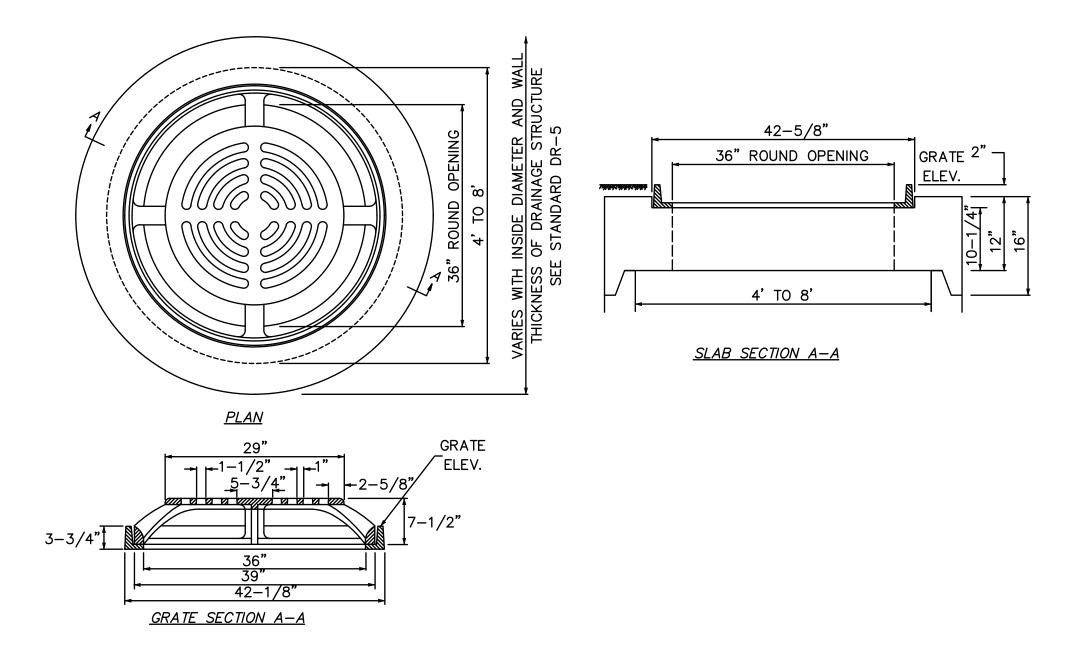


TYPE 'E' CATCH BASIN FRAME &

GRATE DETAIL

NOT TO SCALE





2

DETAILS

DRAINAGE

RD

TOWN OF BEDFOR 55 CONSTITUTION DRIV FORD, NEW HAMPSHIRE

ROAD PLANS

POLLY PEABODY RECONSTRUCTION

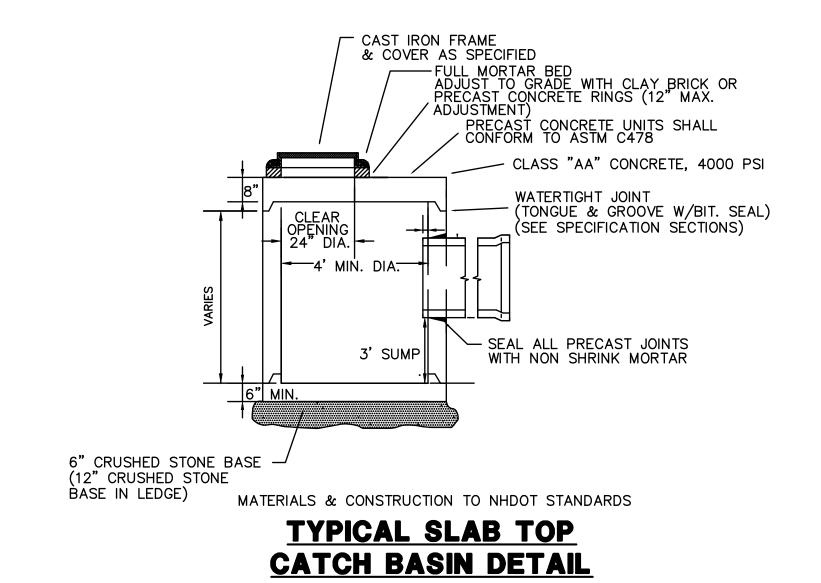
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TYPE 'F' CATCH BASIN GRATE DETAIL NOT TO SCALE

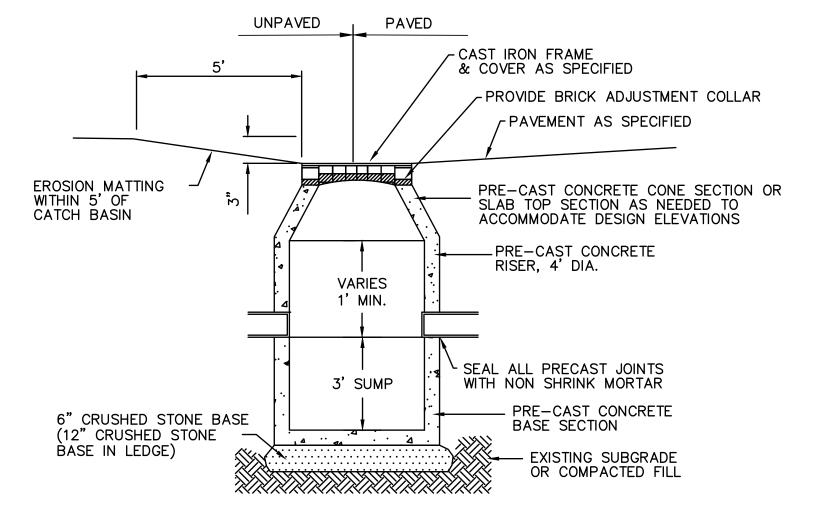
TYPE 'G' CATCH BASIN FRAME &

SLAB DETAIL

NOT TO SCALE

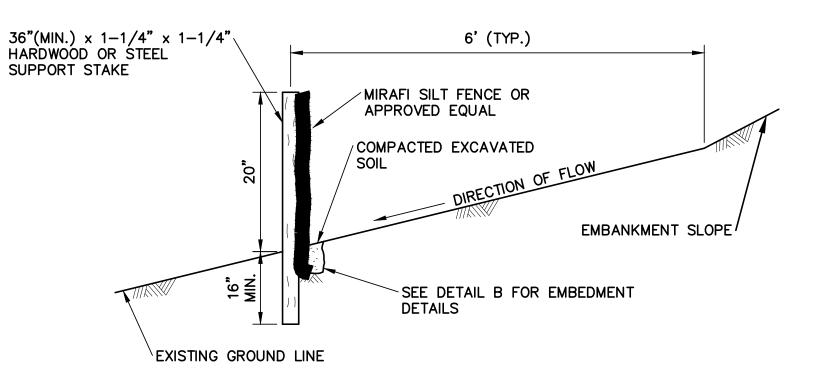


NOT TO SCALE

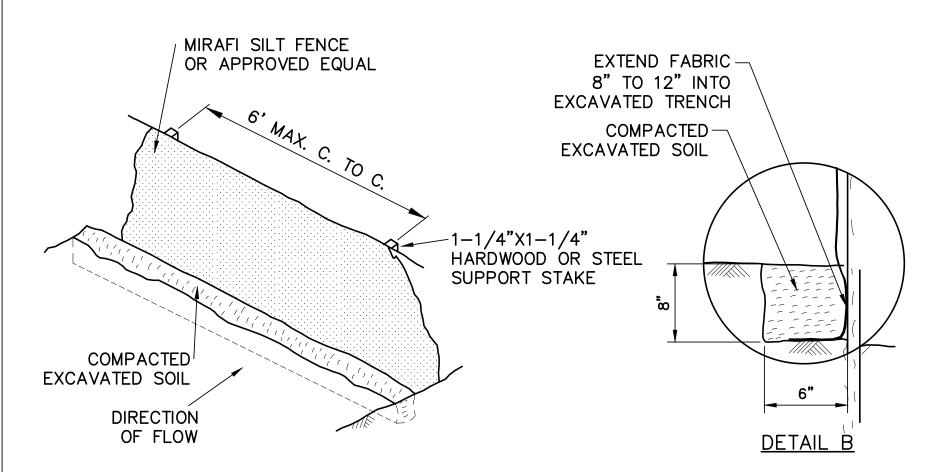


CATCH BASIN DETAIL

NOT TO SCALE



TOE OF SLOPE CONDITION

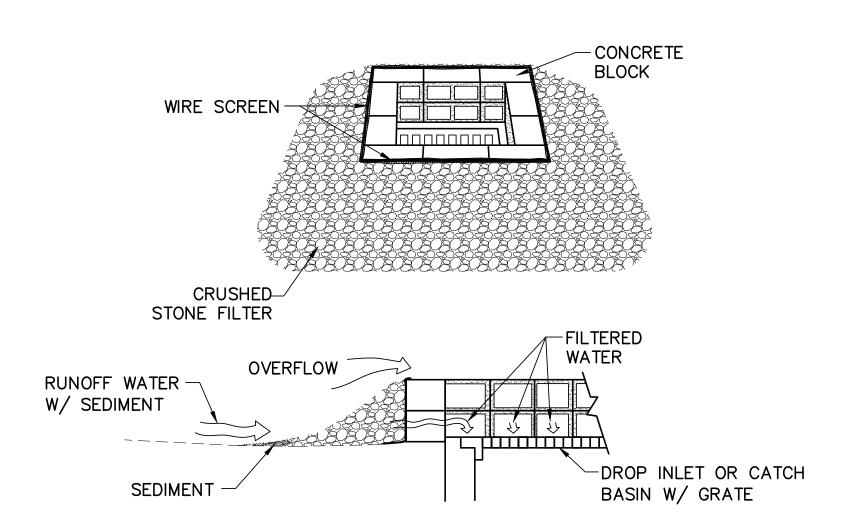


NOTES:

- 1. FILTER FABRIC SILT FENCE MUST BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION MUST BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
- 2. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH ONE-HALF (1/2) THE ABOVE GROUND HEIGHT OF THE FENCE.
- 3. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.

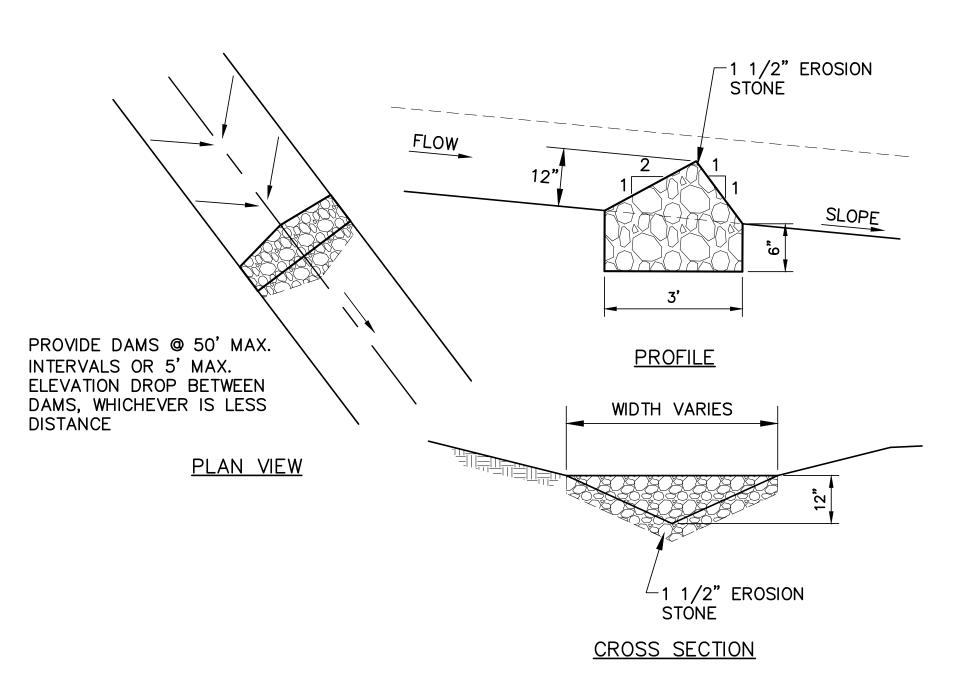
FILTER FABRIC SILT FENCE

NOT TO SCALE



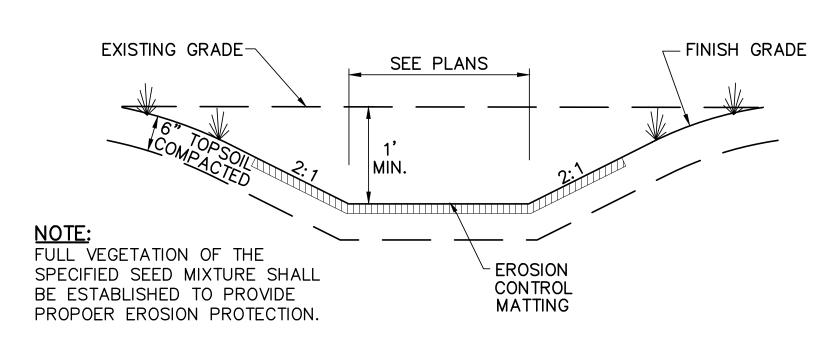
BLOCK & GRAVEL DROP INLET/CATCH BASIN (SEDIMENT FILTER) INLET PROTECTION

NOT TO SCALE



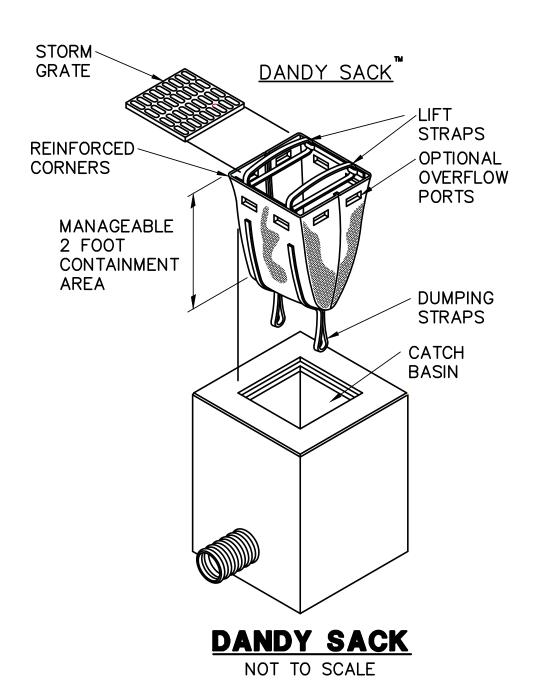
STONE GRADE STABILIZATION (CHECK DAM) STRUCTURES

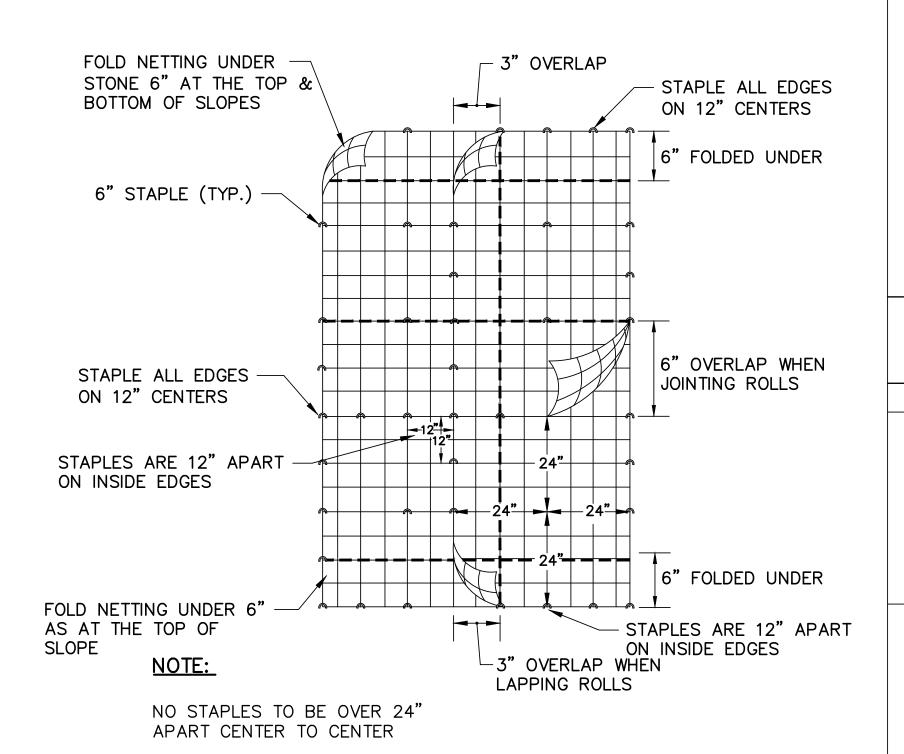
NOT TO SCALE



GRASS-LINED SWALE

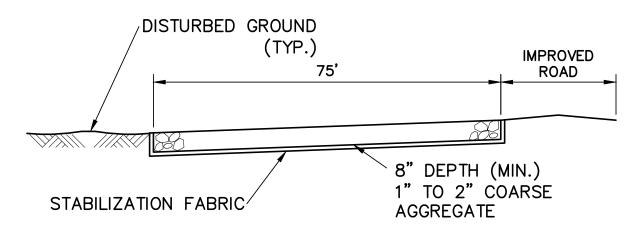
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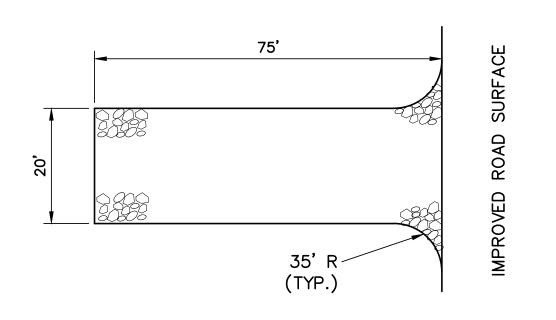




MULCH NETTING INSTALLATION

NOT TO SCALE





NOTE:

STABILIZED CONSTRUCTION ENTRANCE THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING NEW ROCK AND REMOVING "CLOGGED" ROCK AS NECESSARY. A STOCKPILE OF ROCK MATERIAL WILL BE STORED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

GENERAL NOTES:

- 1. SILT FENCE SHALL CONSIST OF AN APPROVED PREFABRICATED SILT FENCE WITH FABRIC ATTACHED TO POSTS AND SHALL BE ASSEMBLED IN THE FIELD ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. WIRE MESH REINFORCEMENT AND/OR CLOSER POST SPACING MAY BE ORDERED BY THE ENGINEER IN AREAS WHERE HIGH RUNOFF VOLUMES ARE ANTICIPATED, OR LOW SPOTS WHERE SEDIMENT WILL BE COLLECTED.
- 2. PRIOR TO BEGINNING EARTHWORK OPERATIONS AT LOCATIONS DIRECTED BY THE ENGINEER, SILT FENCE SHALL BE CONSTRUCTED ALONG THE TOE OF PROPOSED EMBANKMENT AT THE LIMITS OF CLEARING.

EROSION CONTROL DETAILS 0 \simeq BEDFO OF TOWN 55 C ORD,

ROAD PLANS

POLLY PEABODY RECONSTRUCTION

EROSION CONTROL SPECIFICATIONS:

- 1. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3 - EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION" 2008. THE CONTRACTOR SHALL HAVE REFERENCE TO THIS BOOK.
- 2. RECOGNIZING THAT IMMEDIATE ATTENTION TO EROSION CONTROL PRACTICES DRAMATICALLY IMPROVES SOIL AND MOISTURE CONSERVATION AND REDUCES NEGATIVE IMPACTS ON WATER QUALITY. THE CONTRACTOR SHALL GIVE HIGH PRIORITY TO THE DAILY AND TIMELY INSTALLATION OF BOTH TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES. IMMEDIATE INSTALLATION OF PRACTICES USUALLY REDUCES LONG TERM COSTS TO THE CONTRACTOR AND PROVIDES BENEFITS TO THE DEVELOPER AND THE PUBLIC GOOD.
- 3. EROSION CONTROL PRACTICES ARE SHOWN ON THE PLANS WITH RESPECT TO LOCATION AS DETERMINED FROM EXISTING TOPOGRAPHY. CHANGES MAY BE INDICATED IN THE FIELD TO IMPROVE EROSION AND SEDIMENT CONTROL.
- CONSTRUCTION SHALL PROCEED UNIT BY UNIT TO FACILITATE INSTALLATION OF EROSION CONTROL MEASURES AND THE COMPLETION OF GRADING, SEEDING, AND LANDSCAPING AS SOON AS POSSIBLE WITHIN A UNIT. THIS PROCEDURE SHOULD RESULT IN THE EXPOSURE OF THE SMALLEST PRACTICAL LAND AREA AT ANY ONE TIME.
- 5. AREAS ADJACENT TO STREAMS CALL FOR PARTICULAR ATTENTION WITH REGARD TO SILT INTERCEPTION. INSTALL SILT FENCES AS SHOWN ON PLAN AND IN DETAIL BEFORE EARTHWORK COMMENCES. ADDITIONAL FENCING MAY BE REQUIRED AS WORK CONTINUES.
- 6. ALL DISTURBED AREAS AND ALL PROPOSED GRASSED AREAS SHALL HAVE TOPSOIL SPREAD (4" MINIMUM) AND BE LIMED, FERTILIZED, TILLED, SEEDED AND MULCHED. ALL SLOPES 3:1 (1 RISE ON 3 RUN) AND STEEPER SHALL HAVE MULCH HELD IN PLACE WITH NETTING (OR OTHER APPROVED BIODEGRADABLE MATTING MATERIAL), STAPLED AND STAKED. EACH AREA SHALL BE LIMED, FERTILIZED, PREPARED, SEEDED AND MULCHED (WITH ANCHORED NETTING AS REQUIRED) WITHIN 3 DAYS OF FINAL GRADING OR TEMPORARILY STABILIZED WITHIN 21 DAYS OF INITIAL DISTURBANCE. WHEN PERMANENT SEEDING CANNOT BE INSTALLED BY SEPTEMBER 15, TEMPORARY SEEDING AND MULCHING OF ALL DISTURBED AREAS SHALL BE INSTALLED IMMEDIATELY AND MAINTAINED IN THAT CONDITION UNTIL PERMANENT PRACTICES CAN BE INSTALLED IN THE FOLLOWING PLANTING SEASON.
- 7. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY TIME BEFORE DISTURBED AREAS ARE STABILIZED.
- 8. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE (SEE NOTE 10).
- 9. TEMPORARY STABILIZATION OF DISTURBED AREAS:

SEEDBED PREPARATION: TILL THREE INCHES DEEP MIXING IN FERTILIZER. APPLY LIME 2 TONS/ACRE (100#/1,000 SQ. FT.) FERTILIZE: UNIFORMLY APPLY NOT LESS THAN 300#/ACRE (7#/1,000 SQ. FT.) OF 10-20-20 OR EQUIVALENT.

SEEDING: SELECT APPROPRIATE SEEDING MIXTURE FROM TABLE 1 BELOW. SPREAD SEED UNIFORMLY. FIRM SOIL BY ROLLING OR PACKING: IF NOT FEASIBLE, THEN RAKE LIGHTLY TO COVER SEEDS.

MULCHING: MULCH ALL DISTURBED AREAS WITH 1-1/2 TO 2 TONS OF HAY OR STRAW PER ACRE (70-90#/1,000 SQ. FT.). ANCHOR ON ALL SLOPES 3:1 OR STEEPER AND FLATTER SLOPES SUBJECT TO WASH OR WIND BLOWN. USE JUTE (OR OTHER BIODEGRADABLE) NETTING. STAKING AND STAPLING MAY BE REQUIRED.

TAB	BLE 1 - PLAI	NT SELECTION	AND SEEDING RATES
SPECIES	PER ACRE	PER 1000 SQ.FT.	REMARKS
WINTER RYE	2 BU OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO DEPTH OF ONE INCH.
OATS	2 1/2 BU OR 80 LBS.	2 LBS.	BEST FOR SPRING SEEDINGS. LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO DEPTH OF ONE INCH.
ANNUAL RYE	40 LBS.	1 LB.	GROWS QUICKLY. BUT IS OF SHORT GRASS DURATION USE WHERE APPEARANCES ARE IMPORTANT. COVER SEED WITH NO MORE THAN 1/4 INCH OF SOIL. WITH MULCH, SEEDING MAY BE DONE THROUGHOUT GROWING SEASON. OTHERWISE SEED EARLY SPRING OR BETWEEN AUGUST 15 & SEPTEMBER 15.

10. PERMANENT STABILIZATION OF DISTURBED AREAS:

SEED BED PREPARATION: TOPSOIL (SANDY LOAM, LOAM, OR SILT LOAM), FRIABLE, FREE OF TREE ROOTS, WEEDS, STONES MORE THAN 1-1/2 INCHES IN DIAMETER OR LENGTH SHALL BE PLACED OVER ALL DISTURBED AREAS IN A 4" (MINIMUM) THICK LAYER.

TOPSOIL: TOPSOIL SHALL BE FREE OF HERBICIDES AND TOXIC MATERIALS. TILL THREE INCHES DEEP MIXING IN THE FERTILIZER AND LIME. APPLY LIME AT RATES INDICATED IN TABLE "A".

SEEDING: SELECT APPROPRIATE SEEDING MIXTURE FROM TABLE "C". SPREAD SEED UNIFORMLY. FIRM SOIL BY ROLLING OR PACKING; IF NOT FEASIBLE, THEN RAKE LIGHTLY TO COVER SEEDS.

MULCHING: MULCH ALL DISTURBED AREAS WITH 1-1/2 TO 2 TONS OF HAY OR STRAW PER ACRE (70 - 90#/1,000 SQ. FT.). ANCHOR MULCH ON ALL SLOPES 3:1 OR STEEPER AND ON FLATTER SLOPES SUBJECT TO WASH (WATERWAYS AND/OR WINDBLOWN) USING BIODEGRADABLE NETTING (OR OTHER APPROVED BIODEGRADABLE MATTING MATERIAL), WITH STAKING AND STAPLING.

TABLE "A"-LIME APPLICATION RATES				
EXISTING SOIL pH	LIMESTONE TO BE ADDED			
EXISTING SOIL PIT	TONS/ACRE	POUNDS/CY		
4.0-4.4	3	12		
4.5-4.9	2	8		
5.0-5.4	1	4		
UNKNOWN	2	8		

TABLE "C" — SEEDING GUIDE						
	SOIL DRAINAGE					
<u>USE</u>	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL <u>DRAINED</u>	POORLY <u>DRAINED</u>	
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A B C D E	FAIR POOR POOR FAIR FAIR	GOOD GOOD GOOD FAIR EXCELLENT	GOOD FAIR EXCELLENT GOOD EXCELLENT	FAIR FAIR GOOD EXCELLENT POOR	
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNEL WITH FLOWING WATER	A C D	GOOD GOOD	GOOD EXCELLENT EXCELLENT	GOOD EXCELLENT EXCELLENT	FAIR FAIR FAIR	
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSABLE LANDS, AND LOW INTENSITY USE RECREATION SITES	A B C D	GOOD GOOD GOOD FAIR	GOOD GOOD EXCELLENT GOOD	GOOD FAIR EXCELLENT GOOD	FAIR POOR FAIR EXCELLENT	
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	F G	FAIR FAIR	EXCELLENT EXCELLENT	EXCELLENT EXCELLENT	2/ 2/	

GRAVEL PIT - SEE PM-NH-24 RECOMMENDATIONS REGARDING RECLAMATION OF SAND AND GRAVEL PITS.

- 1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE "D". 2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREAS AND ATHLETIC FIELDS.
 - * SEE "VEGETATING NEW HAMPSHIRE SAND AND GRAVEL PITS; TECHNICAL NOTE PM-NH-24, UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, REVISION APRIL, 1991.
- 11. TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED; B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
- C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED; OR
- D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

MAINTENANCE: DURING THE CONSTRUCTION PERIOD AND UNTIL SUCH TIME AS THE LONG TERM VEGETATION IS ESTABLISHED TO A 70% VEGETATIVE STAND.

- A. DISTURBED AREAS WILL BE FERTILIZED AND RESEEDED. B. CATCH BASINS WILL BE CHECKED AND CLEANED AS NECESSARY.
- C. DRAINAGE AND GRASS TREATMENT SWALES SHALL BE CHECKED FREQUENTLY AND CLEANED AS REQUIRED.
- D. THE SILT FENCES AND HAYABLE DIKES WILL BE CHECKED ON A REGULAR BASIS AND REPAIRED AS NECESSARY TO CORRECT ANY DAMAGE, DETERIORATION, AND SHORT-
- 12. REFER TO "EROSION AND SEDIMENT CONTROL PLAN" PRIOR TO ANY SITE DISTURBANCE. CONTACT ENGINEER FOR COPIES OF PLAN.

INSPECTIONS: THE ENGINEER SHALL BE CONTACTED ON A REGULAR BASIS TO INSPECT ALL EROSION CONTROL PRACTICES AS WELL AS THE MAINTENANCE OF THE EROSION CONTROL COMPONENTS. REFER TO CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EROSION CONTROL PRACTICES SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

- 13. ALL TREATMENT SWALES, DITCHES, AND LEVEL LIP SPREADERS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- 14. FOR SPECIAL WINTER CONSTRUCTION CONSIDERATIONS, THE CONTRACTOR SHALL REFER TO THE "EROSION & SEDIMENT CONTROL PLAN".
- 15. THIS PROJECT SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430.53 AND CHAPTER AGR 3800 RELATIVE TO SPECIES.

TABLE "D"	- MIXTURES & RATES			
MIXTURE_	POUNDS PER ACRE	POUNDS PER 1.000 SQ. FT.		
A. TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 <u>2</u> 42	0.45 0.45 <u>0.05</u> 0.95		
B. TALL FESCUE CREEPING RED FESCUE CROWN VETCH OR FLATPEA TOTAL	15 10 15 <u>30</u> 40 or 55	0.35 0.25 0.35 <u>0.75</u> 0.95 or 1.35		
C. TALL FESCUE CREEPING RED FESCUE BIRDSFOOT TREFOIL TOTAL	20 20 <u>8</u> 48	0.45 0.45 <u>0.20</u> 1.10		
D. BIRDSFOOT TREFOIL REDTOP TOTAL	20 <u>10</u> 30	0.50 <u>0.20</u> 0.70		
E. TALL FESCUE FLATPEA TOTAL	20 <u>30</u> 50	0.45 <u>0.75</u> 1.20		
F. CREEPING RED FESCUE 1/ KENTUCKY BLUEGRASS 1/ TOTAL	50 <u>50</u> 100	1.15 <u>1.15</u> 2.30		
G. TALL FESCUE 1/	150	3.60		
1/ FOR HEAVY USE ATHLETIC FIELDS CONSULT THE UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION TURF SPECIALIST FOR CURRENT VARIETIES				

AND SEEDING RATES.

OTHER SEED MIXTURES AND SEEDING RATES AS RECOMMENDED BY THE USDA -NATURAL RESOURCES CONSERVATION SERVICE MAY BE USED WITH PRIOR WRITTEN PERMISSION FROM THE ENGINEER

CONSTRUCTION SEQUENCE:

- THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION CONFERENCE WITH TOWN OFFICIALS PRIOR TO ANY WORK COMMENCING ON SITE.
- 2. FELL AND CLEAR TREES, AS REQUIRED. PLACE JOB TRAILER AT SPECIFIED LOCATION AND INSTALL CONSTRUCTION ENTRANCE(S). STABILIZE THE CONSTRUCTION ENTRANCE(S) WITH COARSE AGGREGATE 8 INCHES (MINIMUM) IN DEPTH, ON TOP OF A GEOTEXTILE, TO PREVENT OFF-SITE TRACKING BY VEHICLES AND EQUIPMENT.
- 3. INSTALL SILT FENCE AT ALL LOCATIONS INDICATED ON PLAN AND AT OTHER LOCATIONS AS DETERMINED BY THE ENGINEER. INSTALL OTHER TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO EARTHWORK COMMENCING.
- 4. GRUB SITE AND DISPOSE OF DEBRIS, AS NECESSARY; CONTRACTOR TO LEGALLY DISPOSE OF DEBRIS OFF THE SITE.
- 5. STOCKPILE TOPSOIL AND INSTALL ASSOCIATED EROSION CONTROL MEASURES, I.E., SILT FENCE, AND
- 6. PONDS AND SWALES SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE (BEFORE ROUGH GRADING THE SITE) AND SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- 7. PLACE SELECT MATERIALS AND PAVEMENT FOR THE LIMITS OF THE PROPOSED ROADWAY IMPROVEMENTS. THE LIMITS OF THE ROADWAY IMPROVEMENTS SHALL BE STABILIZED WITHIN 72 HOURS AFTER GRADING.
- 8. INSPECT ALL DISTURBED AREAS ON A WEEKLY BASIS AND AFTER EVERY ONE-HALF INCH OF RAINFALL. FOLLOWING THESE INSPECTIONS, INSTALL ANY AND ALL TEMPORARY DRAINAGE, EROSION, AND SEDIMENT CONTROL PRACTICES AS INDICATED OR AS REQUIRED, I.E., DIVERSION CHANNELS, BERMS, DRAINS, DITCHES, SILT SACKS, SILT FENCES, SEED AND MULCH, OR ANY OTHER BEST MANAGEMENT PRACTICES AS RECOMMENDED AND SPECIFIED IN THE "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS OF NEW HAMPSHIRE" (USDA - SOIL CONSERVATION SERVICE).
- 9. PLACE TOPSOIL, COMPLETE PERMANENT FERTILIZING, LIMING, SEEDING AND MULCHING, AND INSTALL LANDSCAPE PLANTING.
- 10. CLEAN AND RESTORE SILT DESTINATION SITES. REMOVE OTHER EROSION CONTROL PRACTICES ON A TIMELY BASIS AS PERMANENT MEASURES TAKE HOLD. SPOT FERTILIZE, SEED, AND MULCH AS REQUIRED. NO RUNOFF SHALL BE DIRECTED TO THE PERMANENT MEASURES UNTIL THEY ARE ESTABLISHED.
- 11. INSPECT AND MAINTAIN GRADING, EROSION CONTROL AND SEDIMENT CONTROL PRACTICES WEEKLY AND INSPECTION SHOULD OCCUR AFTER EVERY 0.5" OR GREATER RAINFALL WITHIN A 24 HOUR
- 12. REFER TO "EROSION AND SEDIMENT CONTROL PLAN" FOR ADDITIONAL DETAILS RELATIVE TO THE REQUIRED CONSTRUCTION SEQUENCE. MAINTENANCE OF ALL EROSION CONTROL COMPONENTS SHALL BE AN ONGOING PRACTICE AND IN STRICT ACCORDANCE WITH THE APPROVED PLAN.

SPECIAL WINTER CONSIDERATIONS

THE MAJOR FOCUS OF WINTER EROSION AND SEDIMENT CONTROL IS THE PERIODS OF INTENSE RUNOFF ASSOCIATED WITH MID-WINTER THAWS AND RAINSTORMS, AND THE SPRING MELT.

FROZEN GROUND MAKES THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES VERY DIFFICULT. INSTALLATION SHOULD TAKE PLACE WELL BEFORE THE GROUND FREEZES. MAINTENANCE IN WINTER WILL BE MUCH MORE TIME CONSUMING AND DIFFICULT THAN IN THE SUMMER. THE OVERALL CONSTRUCTION SCHEDULE AND THE WEEKLY WORK SCHEDULE WILL BE DEVELOPED TO INCREASE TIME, EFFORT, AND MANPOWER DEVOTED TO MAINTAINING THE EROSION AND SEDIMENT CONTROL MEASURES.

INTENSE RUNOFF IN MID-WINTER THAWS AND RAINSTORMS, AND THE SPRING MELT PERIOD. CAN RESULT IN MORE SEVERE EROSION AND SEDIMENTATION PROBLEMS THAN RUNOFF FROM SUMMER STORMS. THE SOIL IS OFTEN COMPLETELY SATURATED WITH WATER, AND IS ALSO OFTEN UNDERLAIN BY A FROST LAYER. BOTH OF THESE FACTORS RESULT IN A GREATER PERCENTAGE OF THE RAIN OR MELTWATER RUNNING OVER THE GROUND SURFACE. WINTER AND SPRING RAINSTORMS ARE OFTEN HEAVIER AND MORE INTENSE THAN SUMMER SHOWERS. FOR THESE REASONS, EROSION AND SEDIMENTATION CAN BE ESPECIALLY SEVERE IN MID-WINTER THAWS AND THE SPRING MELT.

- 1. CONTROL MEASURES FOR WINTER CONSTRUCTION:
- A. ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH. OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS;
- B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS: AND
- C. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF GRAVEL PER NHDOT ITEM 304.2.
- D. MINIMIZE DISTURBED AREA AND TIME OF DISTURBANCE: DISTURBED AREA AND LENGTH OF DISTURBANCE SHALL BE MINIMIZED ESPECIALLY BETWEEN OCTOBER 15TH AND MAY 1ST.
- E. GRASSED OR RIP RAPPED SWALES AND DITCHES: INSTALLATION WILL OCCUR BEFORE GROUND FREEZES. CHANNELS ARE TO BE STABILIZED WITH STONE, RIPRAP, OR VEGETATION IMMEDIATELY. INSPECTIONS ARE TO BE FREQUENT WITH REMOVAL OF ANY FLOW BLOCKAGE CAUSED BY ICE OR SEDIMENT.
- F. MULCHING: MULCH ALONE SHOULD NOT BE CONSIDERED AN ADEQUATE EROSION AND SEDIMENT CONTROL TECHNIQUE FOR AREAS THAT ARE DISTURBED IN THE WINTER OR SPRING. MULCH IS EASILY WASHED AWAY BY INTENSE RUNOFF FLOWING OVER SATURATED OR FROZEN SOIL. IT IS ESSENTIAL THAT MULCH BE LAID DOWN IN SUCH A WAY THAT IT WILL NOT BLOW OR WASH AWAY.
- G. SILT FENCE: INSTALLATION IS REQUIRED BEFORE THE GROUND FREEZES, OTHERWISE STAKES WILL BE DIFFICULT TO DRIVE. INSPECT FREQUENTLY AND REMOVE ANY COLLECTED SEDIMENT IN ORDER TO PROVIDE AS MUCH CAPACITY AS POSSIBLE.
- H. SNOW FENCE: INSTALLATION IS REQUIRED BEFORE THE GROUND FREEZES OTHERWISE STAKES WILL BE DIFFICULT TO DRIVE. FENCES MUST BE PLACED LIBERALLY AROUND THE WORK SITE TO KEEP SOIL DISTURBANCE TO AN ABSOLUTE MINIMUM.
- I. STONE CHECK DAMS: PER DETAIL THE PLACEMENT WILL OCCUR IN SWALES AND DITCHES AFTER FINAL GRADING AND IS TO BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED.
- INSPECTION AND MAINTENANCE

INSPECTION OF EROSION AND SEDIMENT CONTROL MEASURES IS REQUIRED MORE FREQUENTLY IN THE WINTER AND SPRING THAN IN THE SUMMER. CAREFUL ATTENTION MUST BE GIVEN TO WEATHER PREDICTIONS. INSPECTION OF ALL CONTROL MEASURES WILL BE ONGOING TO ENSURE THAT STRUCTURES WILL MANAGE THE POTENTIALLY HEAVY AND INTENSE RUNOFF. CONSTANT MAINTENANCE OF CRITICAL CONTROL MEASURES MAY BE NECESSARY DURING THE WINTER AND EARLY SPRING TO PREVENT FAILURE OR OVERLOADING OF CONTROL MEASURES. A SECOND LINE OF CONTROL WILL BE QUICKLY INSTALLED IF PROBLEMS OCCUR. A SUBSTANTIAL AMOUNT OF TIME, EQUIPMENT, AND MANPOWER SHALL BE DEVOTED TO EROSION AND SEDIMENT CONTROL.

3. FOLLOW-UP

INSTALLATION OF PERMANENT VEGETATIVE CONTROLS WILL BE REQUIRED AS EARLY AS IS PRACTICAL AT THE BEGINNING OF THE GROWING SEASON.

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