DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	1	21
PROJECT FILE NO.		--	

TITLE SHEET & INDEX

MASSDEVELOPMENT

PLAN AND PROFILE OF

LOVELL ROAD

(BRIDGE NO. S-13-017)

IN THE TOWN OF

DEVENS (SHIRLEY)

MIDDLESEX COUNTY

FEDERAL AID PROJECT NO. --

NOI SUBMITTAL

THESE PLANS ARE SUPPLEMENTED BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2022, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

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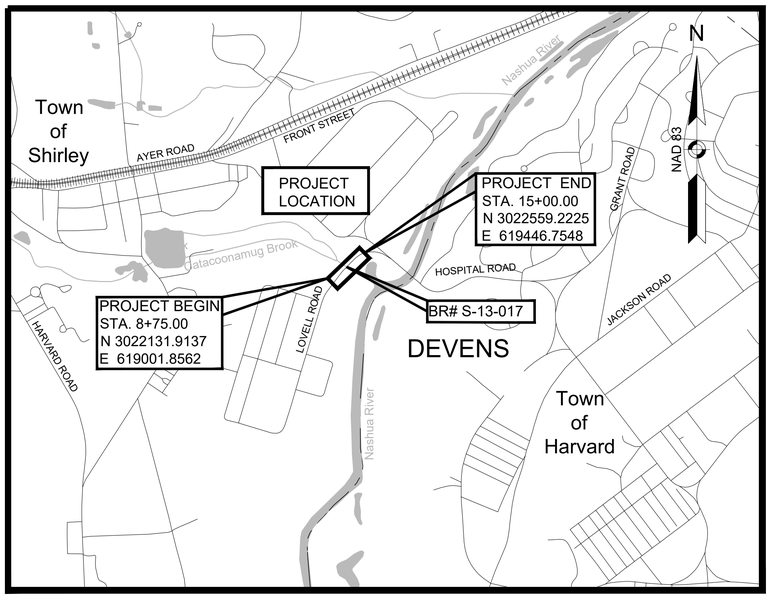
14-21	CROSS SECTIONS



DESIGN DESIGNATION (LOVELL ROAD)	
POSTED SPEED	30 MPH
FUNCTIONAL CLASSIFICATION	LOCAL ROAD

0 100 200 300 400

SCALE: 1" = 100'

LENGTH OF PROJECT = 625 FEET = 0.12 MILES

DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE:_____ DATE: _____

COMMONWEALTH OF MASSACHUSETTS
KATHRYN L EAGAN
CIVIL
No. 54123
REGISTERED PROFESSIONAL ENGINEER

3/16/22	75% DESIGN	
DATE	DESCRIPTION	REV #

MassDevelopment
MASSDEVELOPMENT
33 ANDREWS PKWY
FORT DEVENS, MA 01434

BSC GROUP
803 SUMMER STREET
BOSTON, MA 02127
(617) 896 4300
www.bscgroup.com

APPROVED

_____ _____
CHIEF ENGINEER **DATE**

2336506_HD(TL).DWG Plotted on 21-Apr-2022 2:15 PM

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER
CB	CB	CATCH BASIN
		SILT SACK
		CATCH BASIN CURB INLET
FP	FP	FLAG POLE
GP	GP	GAS PUMP
MB	MB	MAIL BOX
		POST SQUARE
		POST CIRCULAR
WELL	WELL	WELL
EHH	EHH	ELECTRIC HANDHOLE
		FENCE GATE POST
GG	GG	GAS GATE
BHL #	BHL #	BORING HOLE
MW #	MW #	MONITORING WELL
TP #	TP #	TEST PIT
		HYDRANT
		LIGHT POLE
CO.BD.		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY	TPL or GUY	TROLLEY POLE OR GUY POLE
HTP		TRANSMISSION POLE
UFB	UFB	UTILITY POLE W/ FIREBOX
UPDL	UPDL	UTILITY POLE WITH DOUBLE LIGHT
ULT	ULT	UTILITY POLE W / 1 LIGHT
UPL	UPL	UTILITY POLE
		BUSH
SIZE & TYPE		TREE
		STUMP
		SWAMP / MARSH
WG	WG	WATER GATE
PM	PM	PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
100 99		CONTOURS (ON-THE-GROUND SURVEY DATA)
100 99		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		GUARD RAIL - DOUBLE FACE - STEEL POSTS
		GUARD RAIL - DOUBLE FACE - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		SEDIMENT CONTROL BARRIER
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		100 FT REDUCED RIVERFRONT AREA
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT
		SOIL TYPE BOUNDARY
		FEMA FLOOD ZONE AE
		SLOPED RESOURCE AREA

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
1	1	CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
	*	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
RRSG	RRSG	RAILROAD SIGNAL
OR		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
20'		MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
20'		MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
	SL	STOP LINE
	CW	CROSSWALK
	SWL	SOLID WHITE LINE
	SYL	SOLID YELLOW LINE
	BWL	BROKEN WHITE LINE
	BYL	BROKEN YELLOW LINE
	DWL	DOTTED WHITE LINE
	DYL	DOTTED YELLOW LINE
	DWLEx	DOTTED WHITE LINE EXTENSION
	DYLEx	DOTTED YELLOW LINE EXTENSION
	DBWL	DOUBLE WHITE LINE
	DBYL	DOUBLE YELLOW LINE

ABBREVIATIONS

GENERAL

AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY

ABBREVIATIONS (cont.)

GENERAL

R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

TRAFFIC SIGNAL ABBREVIATIONS

CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____

DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	2	21
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LEGEND & ABBREVIATIONS

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DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	3	21
PROJECT FILE NO.		--	

GENERAL NOTES

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GENERAL NOTES:

1. ALL EXISTING UTILITY CASTINGS THAT ARE TO REMAIN WITHIN AREAS TO BE REPAVED SHALL BE ADJUSTED TO LINE AND GRADE BY THE CONTRACTOR UNLESS OTHERWISE NOTED. ALL PRIVATE TELEPHONE, GAS, AND ELECTRICAL CASTINGS SHALL BE ADJUSTED BY OTHERS, THE CONTRACTOR SHALL NOTIFY THE OWNING AGENCIES TO ADJUST AND/OR RELOCATE THESE STRUCTURES TO AVOID IMPACTING THE CONTRACTOR'S SCHEDULE OF OPERATIONS.
2. NO EXISTING PUBLIC UTILITY STRUCTURES SHALL BE ABANDONED AND/OR DISMANTLED WITHOUT AUTHORIZATION FROM THE ENGINEER.
3. THE LOCATIONS OF EXISTING SUBSURFACE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM AVAILABLE RECORD DRAWINGS AND ARE NOT WARRANTIED TO BE CORRECT. THE LOCATIONS ARE APPROXIMATE ONLY AND IN SOME CASES MAY BE INCOMPLETE. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES REQUIRED AND VERIFY THE LOCATIONS OF ALL EXISTING SUBSURFACE UTILITIES PRIOR TO PERFORMING ANY WORK.
4. PROPOSED DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY.THE CONTRACTOR SHALL EXCAVATE TEST PITS AT LOCATIONS OF UTILITY CROSSINGS TO VERIFY DEPTHS OF EXISTING PIPES, CONDUITS OR OTHER FACILITIES AS DIRECTED BY THE ENGINEER. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR REQUIRED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED.
5. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
6. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES WHEN THE INSTALLATION OF DRAINAGE LINES AND STRUCTURES ARE IN CLOSE PROXIMITY TO EXISTING UTILITY POLES.
7. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR TEMPORARY SUPPORT WHILE EXCAVATING IN CLOSE PROXIMITY OF UTILITY POLES, IF REQUIRED BY THE UTILITY, AT NO ADDITIONAL COST.
8. CURB SHALL BE FURNISHED AND SET AT LOCATIONS SHOWN ON THE PLANS AND/OR AS REQUIRED BY THE ENGINEER.
9. ALL PROPOSED DRAINAGE CONNECTIONS TO EXISTING STRUCTURES WILL BE INCLUDED IN THE COST OF THE NEW PIPE.
10. THE CONTRACTOR SHALL ENSURE THAT ALL ROADWAY RUNOFF NEAR THE BRIDGE CROSSING SHALL BE DIRECTED TO CATCH BASINS.
11. THE CONTRACTOR SHALL VERIFY ALL OUTLET GRADES OF DRAINAGE STRUCTURES PRIOR TO CONSTRUCTING THE DRAINAGE IMPROVEMENTS.
12. THE CONTRACTOR SHALL SAWCUT TO THE MILL DEPTH AT BOUNDARIES BETWEEN THE MILL AND OVERLAY AND EXISTING PAVEMENT.
13. THIS PLAN IS BASED UPON AN ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY BSC GROUP IN NOVEMBER 2021.
14. ALL AREAS OUTSIDE OF THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S OWN EXPENSE.
15. ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED FROM DAMAGE CAUSED BY CONTRACTOR OPERATIONS.
16. NORTH IS BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD-83)(2011) EPOCH 2010.00, MASSACHUSETTS STATE PLAND COORDINATE SYSTEM, MAINLAND ZONE. COORDINATES ARE BASED ON CONTROL AS PROVIDED BY MASSDOT SURVEY SECTION FOR STATION 1995 AND STATION 1996.
17. VERTICAL CONTROL IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 AS PROVIDED BY MASSDOT SURVEY SECTION FOR STATION 1995 AND STATION 1996.
18. THE CONTRACTOR SHALL PROTECT EXISTING SURVEY MONUMENTS AND SHALL RESET ANY MONUMENTATION DISTURBED BY HIS OPERATIONS.
19. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT DIGSAFE TO MARK OUT UTILITIES WITHIN THE PROJECT AREA. 1-888-344-7233: 1-888-DIG-SAFE.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY HIGHWAY BOUND OR PRIVATE PROPERTY PIN THAT MAY BE DAMAGED OR DESTROYED DURING CONSTRUCTION AT ITS EXISTING LOCATION AT THE CONTRACTOR'S OWN EXPENSE.
21. ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
22. ITEMS LABELED "REM" SHALL BE REMOVED AND DISCARDED BY CONTRACTOR.
23. ALL PAVEMENT DEEMED UNSATISFACTORY BENEATH THE PROPOSED MILLING DEPTH SHALL BE REMOVED AND REPLACED TO PROVIDE A SUITABLE BASE CONDITION FOR THE NEW TOP COURSE PAVEMENT.

EROSION AND SEDIMENT CONTROL NOTES:

LOVELL ROAD IS TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION ACTIVITIES. PRIOR TO ANY EARTH WORK ACTIVITIES, EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND/OR AS REQUIRED BY THE PERMIT DOCUMENTS. THE PROPOSED ROADWAY AND DRAINAGE WORK SHALL BE CONSTRUCTED IN PHASES TO ALLOW FOR LOVELL ROAD TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION. DURING PAVEMENT REMOVAL AND GRADING ACTIVITIES, IT IS LIKELY THAT EXCAVATED MATERIALS WILL NEED TO BE STACKED ON SITE PRIOR TO REMOVAL OR REUSE. THESE STOCKPILES SHALL BE LOCATED AS FAR AWAY FROM RESOURCES AREAS AS POSSIBLE AND SHALL BE PROTECTED WITH SILT FENCE, HAYBALES, OR COMPOST FILTER TUBES BARRIERS.

THE CONCRETE REPAIRS TO THE BRIDGE DECK ARE PROPOSED TO BE COMPLETED IN TWO STAGES. TRAFFIC CONTROL MEASURES SUCH AS ADVANCE SIGNAGE AND TRAFFIC BARRELS SHALL BE INSTALLED TO DIRECT TRAFFIC ONTO THE PORTION OF THE BRIDGE TO REMAIN OPEN TO TRAFFIC. WITHIN THE PORTION OF THE BRIDGE CLOSED TO TRAFFIC THE CONTRACTOR SHALL REMOVE DETERIORATED CONCRETE, INSTALL ADDITIONAL REBAR IF NEEDED, AND POUR NEW CONCRETE WHERE REQUIRED. THE CONTRACTOR SHALL ALSO INSTALL NEW BRIDGE EXPANSION JOINTS AT THE ENDS OF THE 63-FOOT BRIDGE SPAN. THE EXPANSION JOINTS SHALL BE INSTALLED UP TO THE LIMITS OF THE CLOSED PORTION OF THE BRIDGE. ONCE THE WORK IS COMPLETED WITHIN THE CLOSED PORTION OF THE BRIDGE, THE PROCESS WILL BE SHIFTED TO THE REMAINING PORTION OF BRIDGE. THE CONTRACTOR SHALL ESTABLISH CONCRETE WASHOUT AREAS AS NEEDED DURING CONSTRUCTION. THE CONCRETE WASHOUT AREAS SHALL USE AN IMPERVIOUS POLYLINER AND BE ENCLOSED BY STAKED HAY BALES.

DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____

DATE: _____

DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	4	21
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TYPICAL SECTIONS

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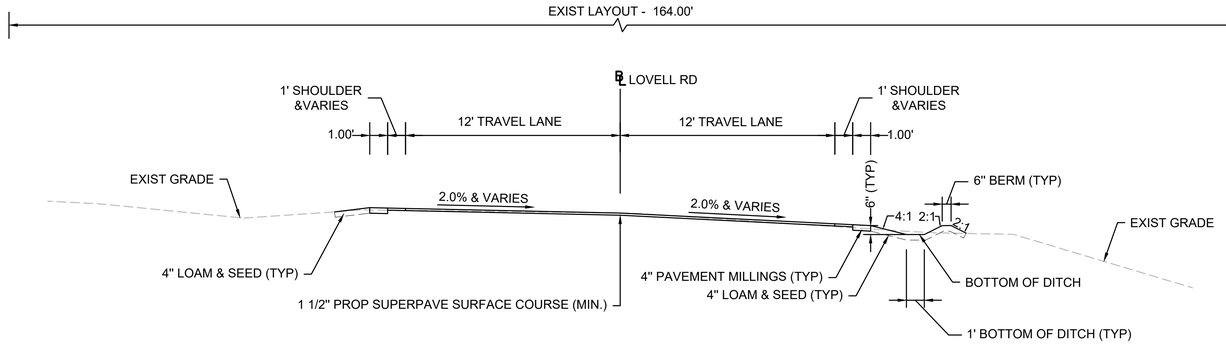
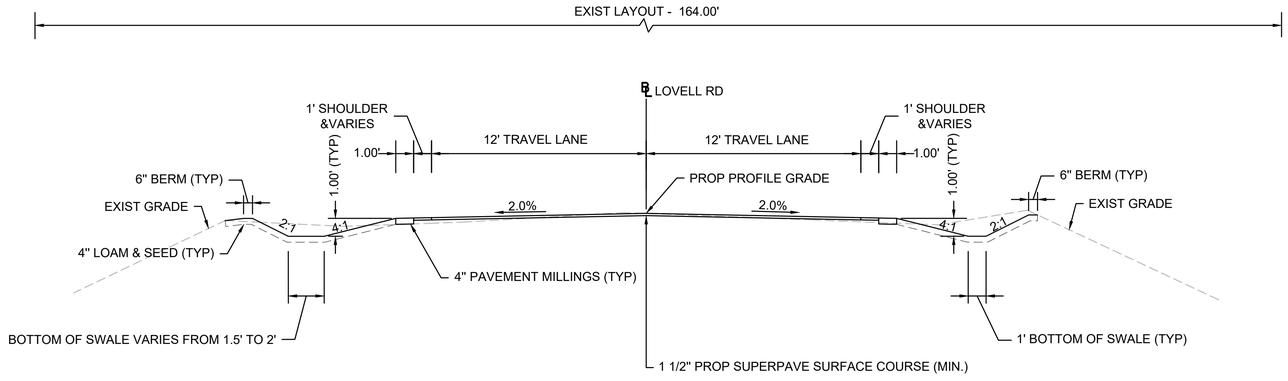


LOVELL ROAD
SCALE: 1"=4'

STA 13+00 TO STA 15+00

NOTE: CHECK DAMS ARE SPACED PERIODICALLY THROUGHOUT THE SWALES. SEE SHEETS 5 AND 9 FOR MORE DETAIL.



LOVELL ROAD
SCALE: 1"=4'

STA 9+00 TO STA 10+75

NOTE: CHECK DAMS ARE SPACED PERIODICALLY THROUGHOUT THE SWALES. SEE SHEETS 4 AND 9 FOR MORE DETAIL.

PAVEMENT NOTES

BRIDGE

SURFACE:1 1/2" SUPERPAVE BRIDGE SURFACE COURSE - 9.5 (SSC-B-9.5) OVER 0.09 GAL/SY TACK COAT OVER

INTERMEDIATE: SUPERPAVE 1 1/2" BRIDGE PROTECTIVE COURSE - 9.5 (SPC-B-9.5) OVER 0.09 GAL/SY TACK COAT OVER

MEMBRANE WATERPROOFING

ROADWAY

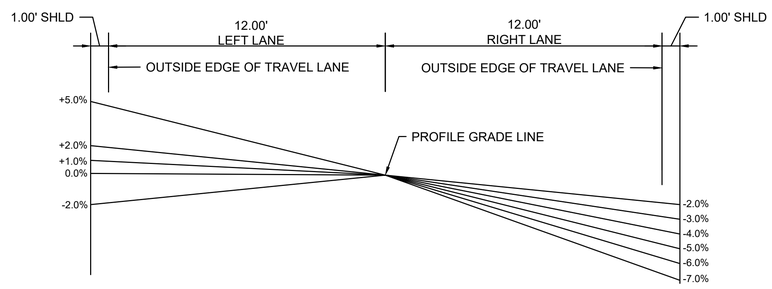
SURFACE: 1 ½" SUPERPAVE SURFACE COURSE - 9.5 (SSC-B-9.5)* OVER 0.09 GAL/SY TACK COAT OVER

VARIABLE DEPTH PAVEMENT STANDARD MILLING

* 1 1/2" SUPERPAVE SURFACE COURSE IS THE MINIMUM DEPTH OF PAVEMENT TO BE PLACED. ADDITIONAL PAVEMENT SHOULD BE PLACED TO MEET PROPOSED GRADES AS NEEDED.

NOTES:

1. SEE SHEET 9 FOR SWALE CHECK DAM DETAILS.
2. PREPARATION OF UNDERLYING SURFACE, ASPHALT EMULSION FOR TACK COAT, AND HMA JOINT SEALANT SHALL BE IN ACCORDANCE WITH SECTION 450.
3. ASPHALT EMULSION FOR TACK COAT SHALL MEET ALL REQUIREMENTS OUTLINED IN THE 2022 CONSTRUCTION SPECIFICATIONS FOR ANIONIC EMULSIFIED ASPHALT (SECTION M3.03.1), AND SPRAYED FOR 95% UNIFORM COVERAGE PRIOR TO PAVING.



SUPERELEVATION - LOVELL ROAD

STA	LEFT (%)	RIGHT (%)	NOTE
8+75	-2.0%	-4.0%	MATCH EXIST
9+00	-2.0%	-2.0%	
9+50	-2.0%	-2.0%	
10+00	-2.0%	-2.0%	
10+50	-2.0%	-2.0%	
11+00	-2.0%	-2.0%	
11+50	-2.0%	-2.0%	
11+74	-2.0%	-2.0%	BRIDGE JOINT
12+00	-2.0%	-2.0%	BRIDGE
12+40	-2.0%	-2.0%	BRIDGE JOINT
12+50	-2.0%	-2.0%	
13+00	0.0%	-3.0%	
13+50	+1.0%	-4.0%	
14+00	+2.0%	-5.0%	
14+50	+5.0%	-6.0%	
15+00	+5.0%	-7.0%	MATCH EXIST

DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	5	21
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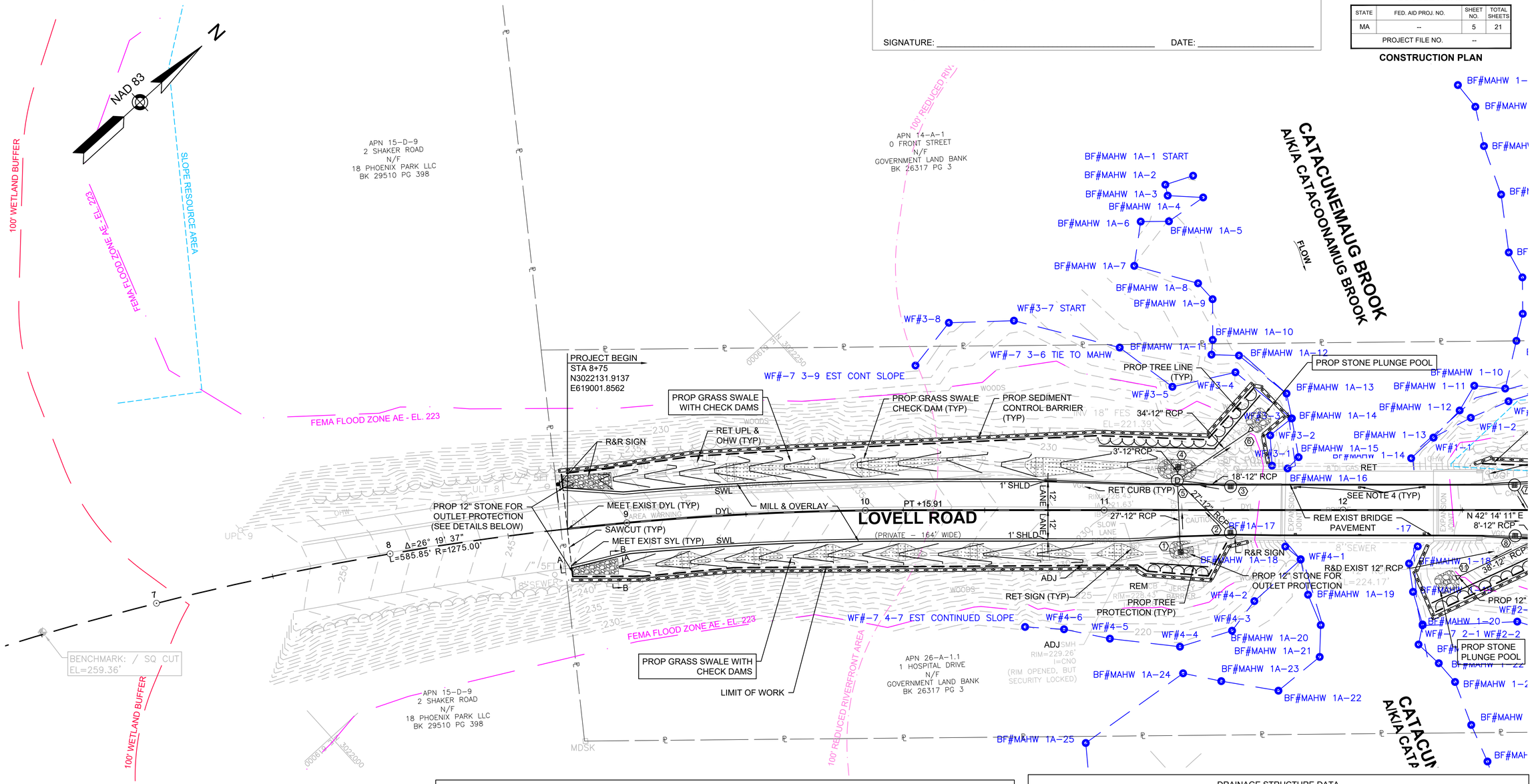
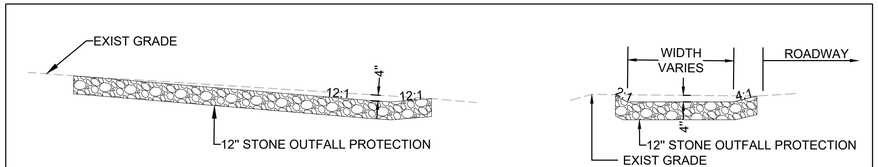
CONSTRUCTION PLAN

2336506_HD(CP).DWG Plotted on 21-Apr-2022 2:24 PM



NOTES:

1. TRIM OR REMOVE TREES ONLY AS NEEDED FOR CONSTRUCTION WORK.
2. CLEAR AND GRUB ONLY AS NEEDED WITHIN LIMIT OF WORK.
3. PROVIDE SILT SACKS IN ALL CATCH BASINS AND DROP INLETS WITHIN LIMIT OF WORK (NOT SHOWN FOR CLARITY).
4. EXIST SCUPPERS TO BE REMOVED AND RESET AS REQUIRED TO REPAIR CONCRETE, SEE BRIDGE PLANS FOR MORE DETAIL.
5. BASE FLOOD ELEVATION OF FLOOD ZONE AE IS ESTABLISHED AT 223' NAVD88 PER CROSS SECTION DATA PROVIDED BY FEMA NATIONAL FLOOD HAZARD MAP PANEL, 25017C0192E EFFECTIVE JUNE 4, 2010. THIS HAS BEEN APPLIED TO TOPOGRAPHY AND CONTOURS OBTAINED BY GROUND SURVEY. THIS ALSO COINCIDES WITH BORDERING LAND SUBJECT TO FLOODING AS DEFINED BY THE MASSACHUSETTS WETLANDS PROTECTION ACT AND IMPLEMENTING REGULATIONS.
6. RUNOFF FROM THE ARMY 3400 AREA CONTRIBUTES RUNOFF TO THIS AREA BUT IS OUTSIDE OF MASSDEVELOPMENT'S JURISDICTION. TO THE MAXIMUM EXTENT PRACTICABLE, THE DESIGN MITIGATES FOR THE IMPACTS OF THIS RUNOFF.
7. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE, TO BE VERIFIED BY CONTRACTOR IN FIELD.



12" STONE FOR OUTFALL PROTECTION DETAILS

SCALE: 1"=4'

0 20 50 100

SCALE: 1" = 20'

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
1	DI	11+32.0, 17.5' RT	228.00	-	223.50	PROP DI
2	CB	11+52.9, 9.5' RT	228.91	-	225.41	PROP CB
3	CB	11+53.0, 9.9' LT	228.92	-	225.42	PROP CB
4	DI	11+31.0, 18.1 LT	228.00	-	223.50	PROP DI
5	DMH	11+30.7, 12.5 LT	229.00	221.73 (1) 224.87 (2) 225.00 (3) 223.44 (4)	221.63	CIT TO DMH
6	FES	11+60.5, 32.8' LT	-	221.63 (5)	221.39	FLARED END

DEVENS ENTERPRISE COMMISSION ENDORSEMENT

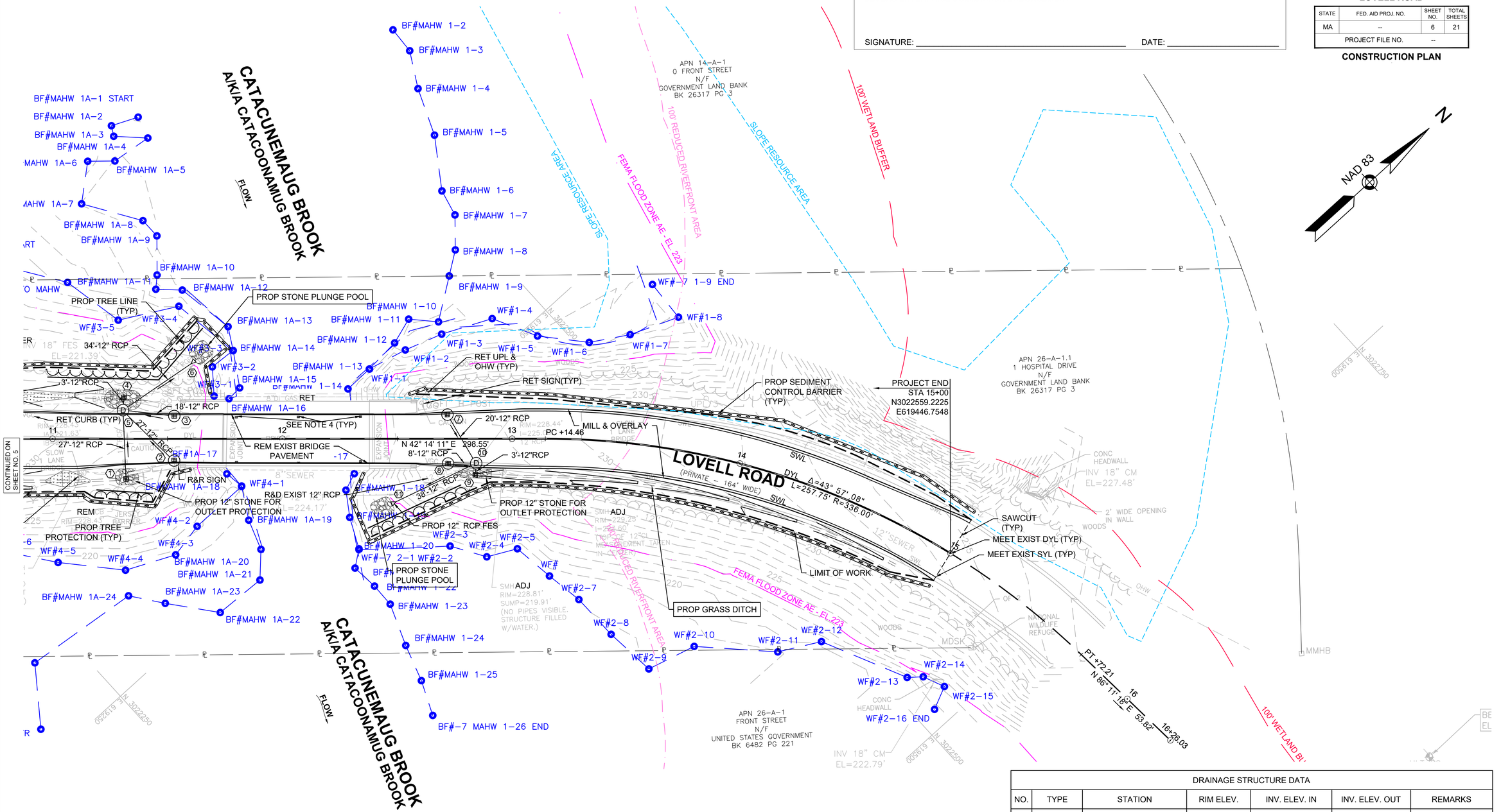
SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	6	21
PROJECT FILE NO.		--	

CONSTRUCTION PLAN

2336506_HD(CP).DWG Plotted on 21-Apr-2022 2:24 PM



NOTES:
1. TRIM OR REMOVE TREES ONLY AS NEEDED FOR CONSTRUCTION WORK.
2. CLEAR AND GRUB ONLY AS NEEDED WITHIN LIMIT OF WORK.
3. PROVIDE SILT SACKS IN ALL CATCH BASINS AND DROP INLETS WITHIN LIMIT OF WORK (NOT SHOWN FOR CLARITY).
4. EXIST SCUPPERS TO BE REMOVED AND RESET AS REQUIRED TO REPAIR CONCRETE, SEE BRIDGE PLANS FOR MORE DETAIL.
5. BASE FLOOD ELEVATION OF FLOOD ZONE AE IS ESTABLISHED AT 223' NAVD88 PER CROSS SECTION DATA PROVIDED BY FEMA NATIONAL FLOOD HAZARD MAP PANEL, 25017C0192E EFFECTIVE JUNE 4, 2010. THIS HAS BEEN APPLIED TO TOPOGRAPHY AND CONTOURS OBTAINED BY GROUND SURVEY. THIS ALSO COINCIDES WITH BORDERING LAND SUBJECT TO FLOODING AS DEFINED BY THE MASSACHUSETTS WETLANDS PROTECTION ACT AND IMPLEMENTING REGULATIONS.
6. RUNOFF FROM THE ARMY 3400 AREA CONTRIBUTES RUNOFF TO THIS AREA BUT IS OUTSIDE OF MASSDEVELOPMENT'S JURISDICTION. TO THE MAXIMUM EXTENT PRACTICABLE, THE DESIGN MITIGATES FOR THE IMPACTS OF THIS RUNOFF.
7. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE, TO BE VERIFIED BY CONTRACTOR IN FIELD.

0 20 50 100
SCALE: 1" = 20'

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
7	CB	12+71.9, 10.5' LT	228.70	-	225.20	PROP CB
8	CB	12+72.1, 10.8' RT	228.62	-	225.12	PROP CB
9	DI	12+84.0, 15.65' RT	227.00	-	224.80	PROP DI
10	DMH	12+84.4, 10.6' RT	228.72	224.66 (7) 224.96 (8) 224.74 (9)	223.00	REM EXIST CB PROP DMH
11	FES	12+48.5, 27.9' RT	-	223.00 (10)	222.60	FLARED END

DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	7	21
PROJECT FILE NO.		--	

PROFILE

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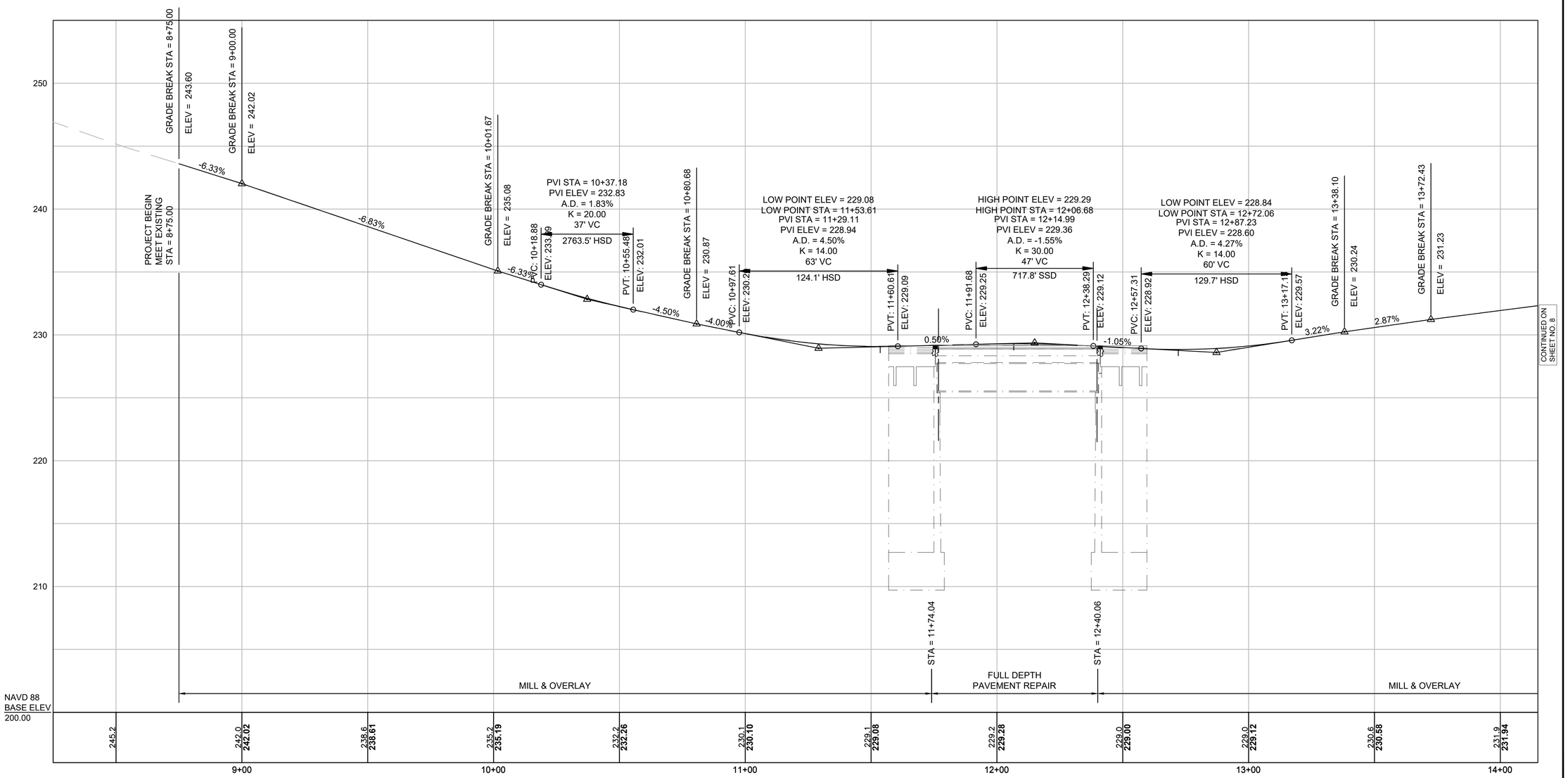


HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 5-6

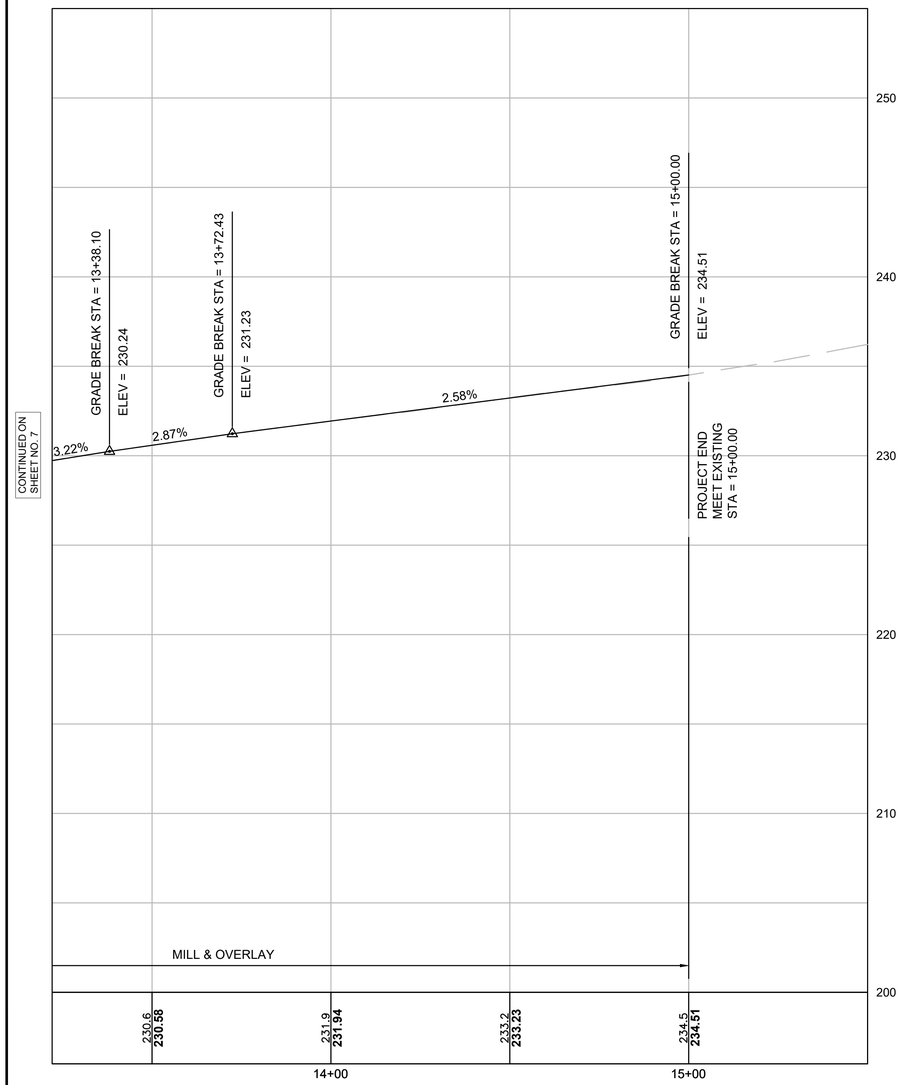
DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	8	21
PROJECT FILE NO.		--	

PROFILE



HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

FOR CONSTRUCTION PLANS:
SEE SHEET NOS. 5-6

2336506_HD(PR).DWG Plotted on 21-Apr-2022 2:20 PM

DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	9	21
PROJECT FILE NO.		--	

EROSION & SEDIMENT CONTROL PLAN

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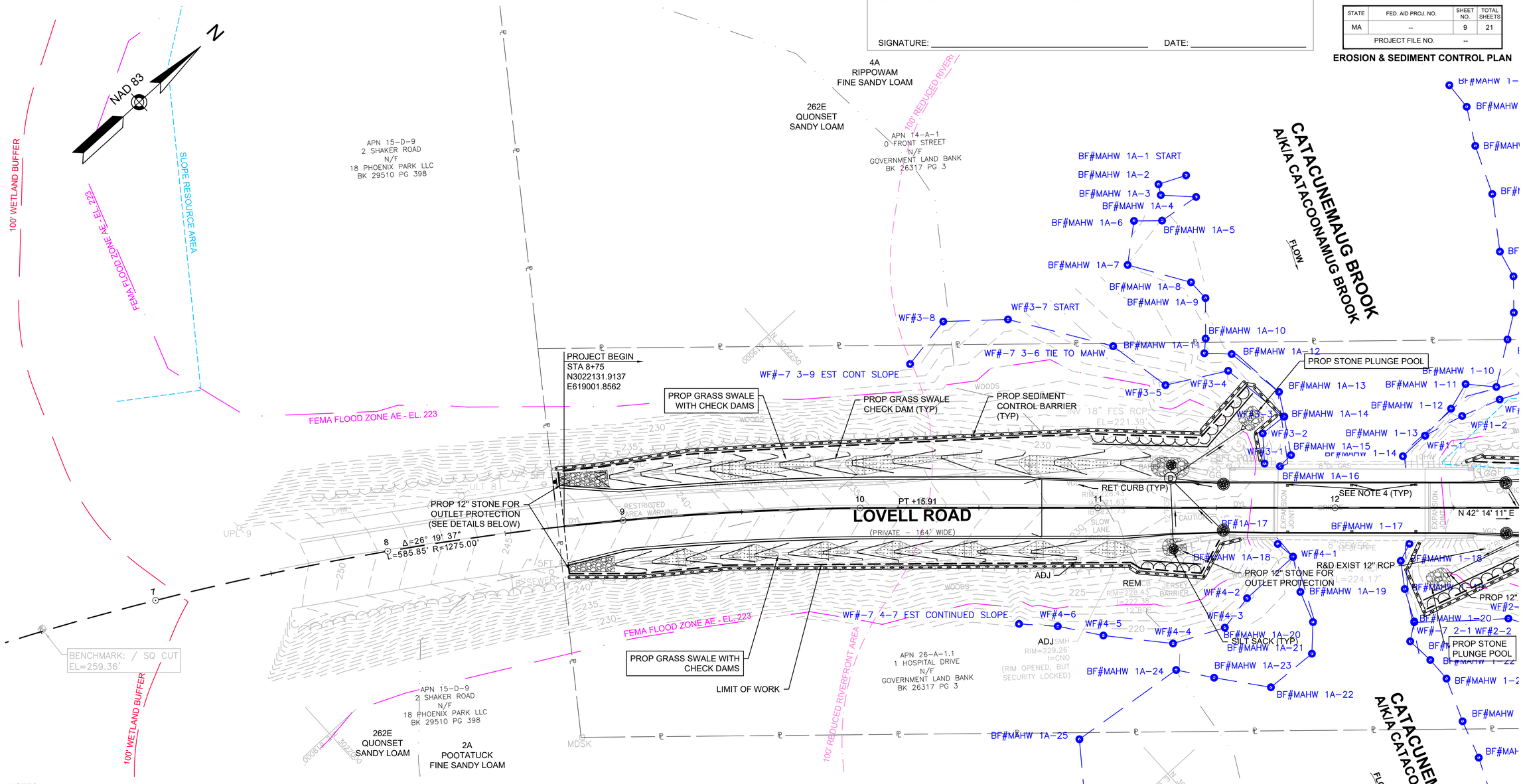

NOTES:

1. TRIM OR REMOVE TREES ONLY AS NEEDED FOR CONSTRUCTION WORK.
2. CLEAR AND GRUB ONLY AS NEEDED WITHIN LIMIT OF WORK.
3. PROVIDE SILT SACKS IN ALL CATCH BASINS AND DROP INLETS WITHIN LIMIT OF WORK, SILT SACKS TO REMAIN IN PLACE UNTIL THE SITE IS COMPLETELY STABILIZED.
4. EXIST SCUPPERS TO BE REMOVED AND RESET AS REQUIRED TO REPAIR CONCRETE, SEE BRIDGE PLANS FOR MORE DETAIL.
5. BASE FLOOD ELEVATION OF FLOOD ZONE AE IS ESTABLISHED AT 223' NAVD88 PER CROSS SECTION DATA PROVIDED BY FEMA NATIONAL FLOOD HAZARD MAP PANEL, 25017C0192E EFFECTIVE JUNE 4, 2010. THIS HAS BEEN APPLIED TO TOPOGRAPHY AND CONTOURS OBTAINED BY GROUND SURVEY. THIS ALSO COINCIDES WITH BORDERING LAND SUBJECT TO FLOODING AS DEFINED BY THE MASSACHUSETTS WETLANDS PROTECTION ACT AND IMPLEMENTING REGULATIONS.
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7. LIMITS OF SOIL TYPE BOUNDARIES ARE APPROXIMATE. SOIL DATA WAS RETRIEVED FROM MASSMAPPER AND WEB SOIL SURVEY IN APRIL 2022.

LEGEND

SOIL TYPE BOUNDARY

SOIL DATA			
MAP UNIT SYMBOL	MAP UNIT NAME	HYDROLOGIC RATING	ERODIBILITY RATING / T FACTOR (TONS PER ACRE PER YEAR)
2A	POOTATUCK FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES, OCCASIONALLY FLOODED	B	3
4A	RIPPOWAM FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES, FREQUENTLY FLOODED	A/D	4
262D	QUONSET SANDY LOAM, 15 TO 25 PERCENT SLOPES	A	5
262E	QUONSET SANDY LOAM, 25 TO 35 PERCENT SLOPES	A	5

0 20 50 100

SCALE: 1" = 20'

DEVENS ENTERPRISE COMMISSION ENDORSEMENT

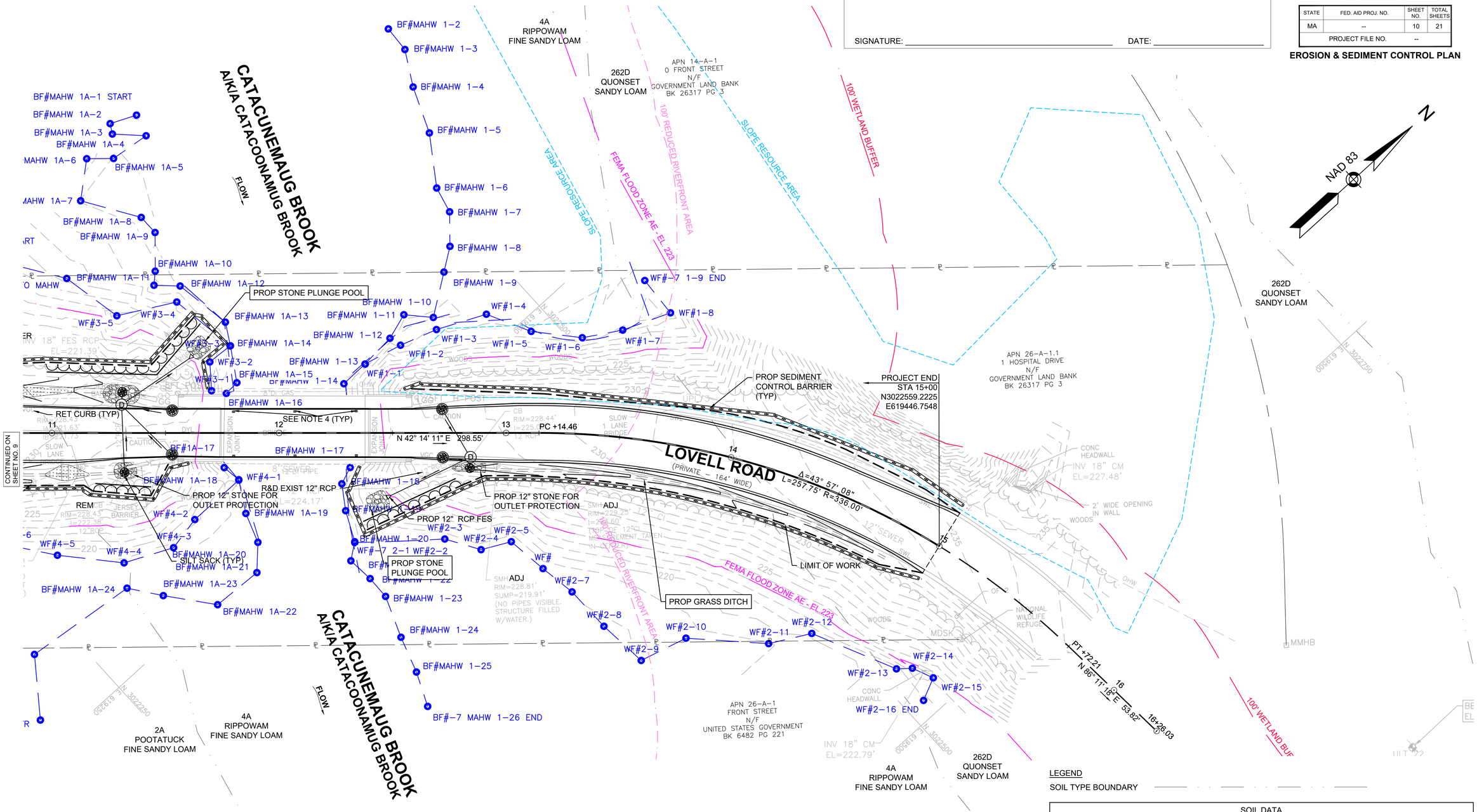
SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	10	21
PROJECT FILE NO.		--	

EROSION & SEDIMENT CONTROL PLAN

2336506_HD(SC).DWG Plotted on 21-Apr-2022 2:32 PM



NOTES:
1. TRIM OR REMOVE TREES ONLY AS NEEDED FOR CONSTRUCTION WORK.
2. CLEAR AND GRUB ONLY AS NEEDED WITHIN LIMIT OF WORK.
3. PROVIDE SILT SACKS IN ALL CATCH BASINS AND DROP INLETS WITHIN LIMIT OF WORK, SILT SACKS TO REMAIN IN PLACE UNTIL THE SITE IS COMPLETELY STABILIZED.
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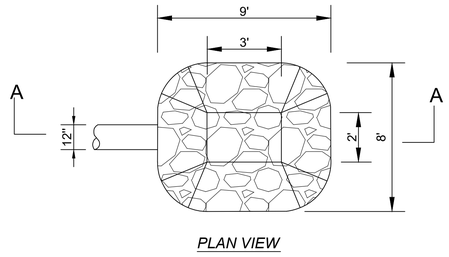
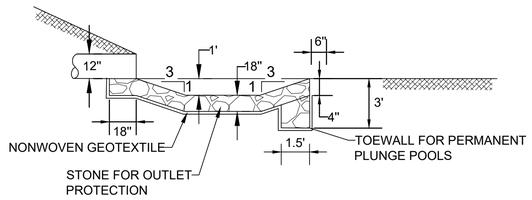
0 20 50 100
SCALE: 1" = 20'

LEGEND
SOIL TYPE BOUNDARY

SOIL DATA			
MAP UNIT SYMBOL	MAP UNIT NAME	HYDROLOGIC RATING	ERODIBILITY RATING / T FACTOR (TONS PER ACRE PER YEAR)
2A	POOTATUCK FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES, OCCASIONALLY FLOODED	B	3
4A	RIPPOWAM FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES, FREQUENTLY FLOODED	A/D	4
262D	QUONSET SANDY LOAM, 15 TO 25 PERCENT SLOPES	A	5
262E	QUONSET SANDY LOAM, 25 TO 35 PERCENT SLOPES	A	5



PLAN VIEW



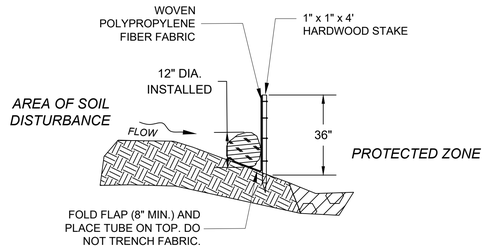
SECTION A-A

NOTES:

1. PROVIDE A MINIMUM OF ONE FOOT OVERLAP FOR ALL REPAIRS AND FOR JOINING TWO PIECES OF GEOTEXTILE.
2. EMBED THE GEOTEXTILE A MINIMUM OF 4 INCHES AND EXTEND THE GEOTEXTILE A MINIMUM OF 6 INCHES BEYOND THE EDGE OF THE SCOUR HOLE.

PLUNGE POOL DETAIL

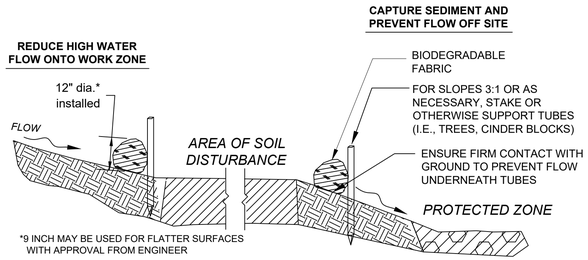
NOT TO SCALE



SECTION

COMPOST FILTER TUBE & SILT FENCE

NOT TO SCALE



SECTION

SEDIMENT BARRIER - COMPOST FILTER TUBES

NOT TO SCALE

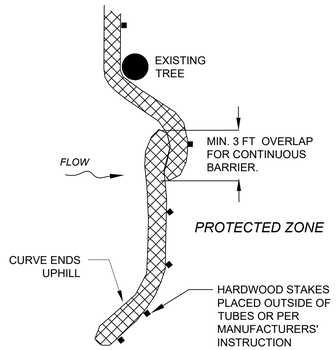
DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	11	21
PROJECT FILE NO.		--	

CONSTRUCTION DETAILS



PLACE TUBE ALONG CONTOURS AND PERPENDICULAR TO FLOW.

PLACE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE

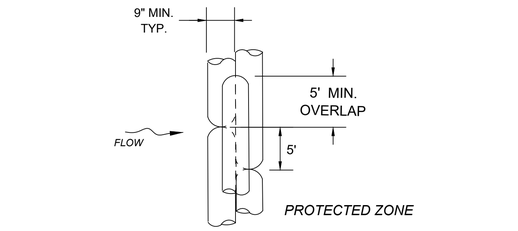
ADJUST LOCATION AS REQUIRED FOR OPTIMUM EFFECTIVENESS. DO NOT INSTALL IN WATERWAYS.

PLACE STAKES AS NEEDED TO SECURE TUBES IN PLACE.

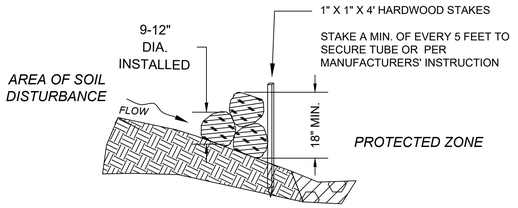
PLAN VIEW

COMPOST FILTER TUBE

NOT TO SCALE



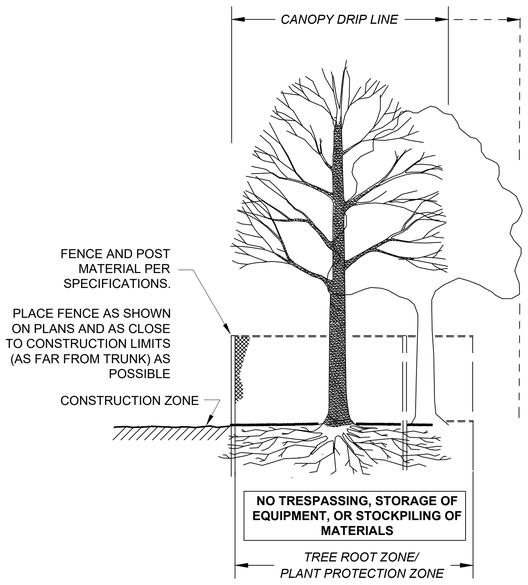
PLAN VIEW



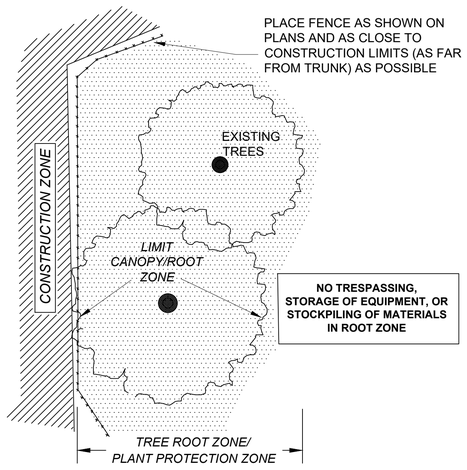
SECTION

COMPOST FILTER TUBE BERM (SLOPES 2:1 OR STEEPER)

NOT TO SCALE



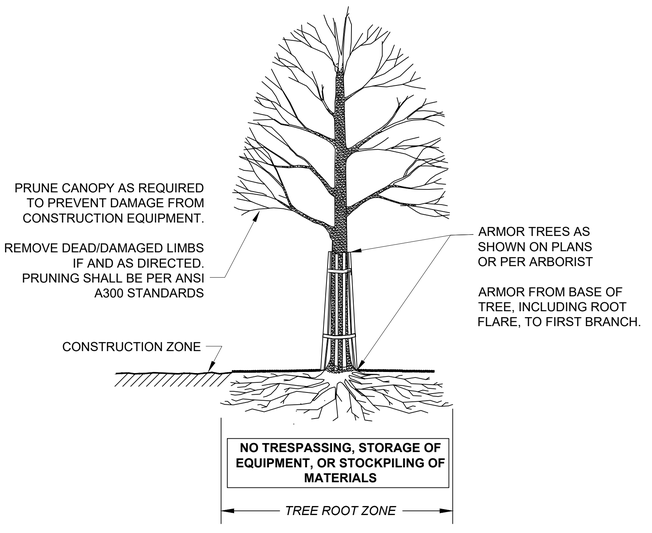
SECTION - FENCE PROTECTION OF ROOT ZONE



PLAN VIEW - FENCE PROTECTION OF ROOT ZONE

TREE PROTECTION - ROOT ZONE

NOT TO SCALE



SECTION - TRUNK ARMORING & PRUNING

TREE PROTECTION - TRUNK

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DEVENS ENTERPRISE COMMISSION ENDORSEMENT

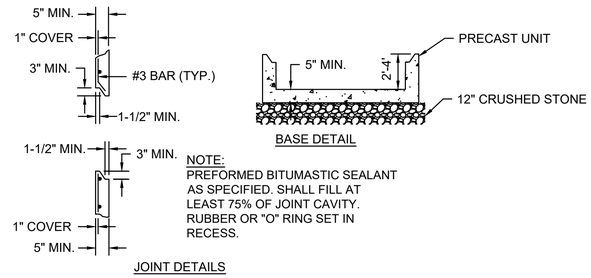
SIGNATURE: _____ DATE: _____

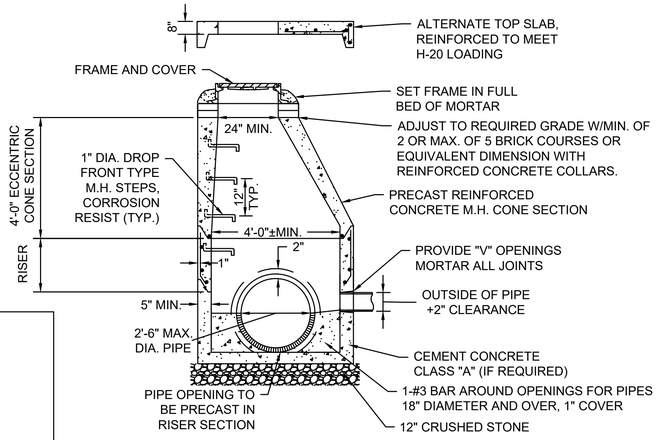
DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	12	21
PROJECT FILE NO.		--	

CONSTRUCTION DETAILS

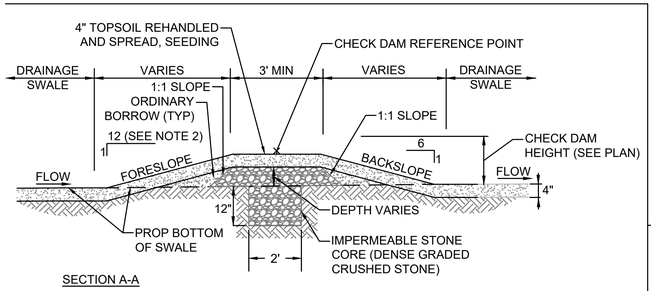
2336506_HD(DET).DWG Plotted on 21-Apr-2022 2:17 PM

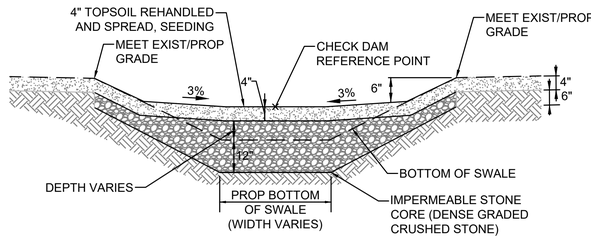


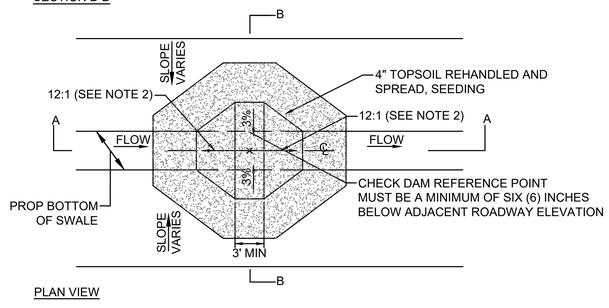


PRECAST CONCRETE DMH

NOT TO SCALE





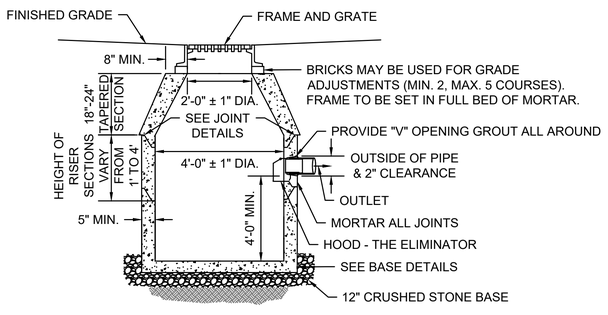


NOTES:

1. CONTRACTOR SHALL FIELD VERIFY THAT THE DIFFERENCE BETWEEN CHECK DAM REFERENCE POINT ELEVATION AND ADJACENT ROADWAY ELEVATION IS NOT LESS THAN 6-INCHES. IF FIELD CONDITIONS DO NOT RESULT IN 6-INCH ELEVATION DIFFERENCE BETWEEN PROVIDED CHECK DAM REFERENCE POINT AND ADJACENT ROADWAY ELEVATION AT EDGE OF PAVEMENT, CONTRACTOR SHALL NOTIFY ENGINEER.
2. 12:1 SLOPE. STEEPER TRAVERSE FORESLOPES ARE NOT PERMISSIBLE WITHIN THE CLEAR ZONE.

SWALE CHECK DAM DETAIL

NOT TO SCALE

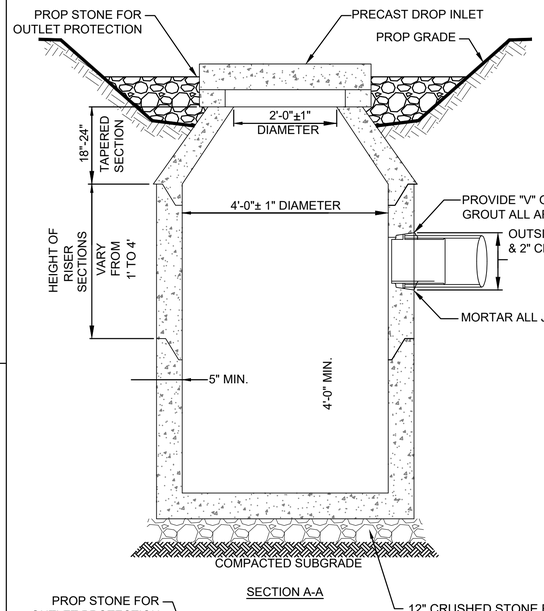


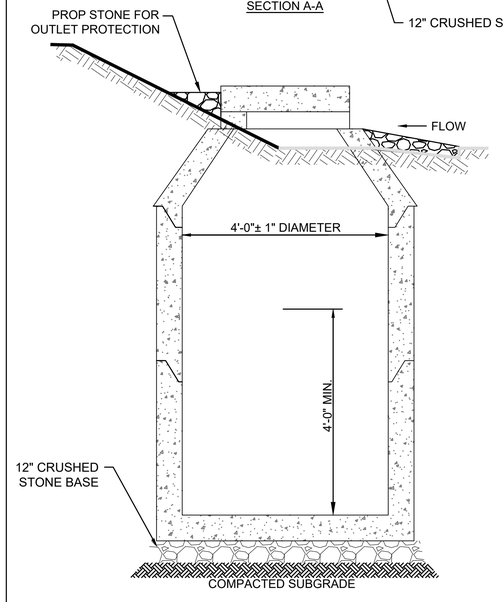
NOTES:

1. ALL PRECAST JOINTS TO BE SEALED WITH BUTYL RUBBER.
2. DESIGN TO CONFORM TO H-20 LOADING.
3. HOOD SHALL BE "THE ELIMINATOR" OIL & FLOATING DEBRIS TRAP AS MANUFACTURED BY GROUND WATER RESCUE, INC., QUINCY, MA., TEL. 617-773-1128 ON THE WEB @ WWW.KLEANSTREAM.COM or APPROVED EQUAL.
4. CONTRACTOR HAS THE OPTION TO USE ALTERNATE TOP SLAB.
5. CATCH BASINS TO BE PROVIDED WITH HOODS - THE ELIMINATOR, OIL AND FLOATING DEBRIS TRAP OR EQUAL. COST OF HOOD TO BE INCLUDED IN CATCH BASIN COST.

PRECAST CONCRETE CATCH BASIN

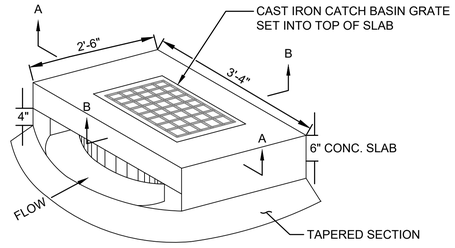
NOT TO SCALE





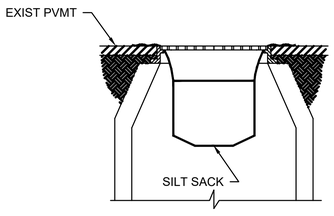
PRECAST DROP INLET DETAIL

NOT TO SCALE



NOTES:

1. THROAT OPENING ON ONE SIDE. ALIGN OPENING ALONG FLOW DIRECTION OF SWALE.
2. CRUSHED STONE NOT SHOWN FOR CLARITY.



NOTE:
SILT SACKS TO BE PLACED IN ALL CATCH BASINS IN THE VICINITY OF NEW CONSTRUCTION. CATCH BASINS ARE TO BE PROTECTED AS SHOWN, WITH MINIMUM WEEKLY MAINTENANCE, OR AS REQUIRED AND REPLACED IF NECESSARY.

SILT SACK INLET PROTECTION

NOT TO SCALE

DEVENS ENTERPRISE COMMISSION ENDORSEMENT

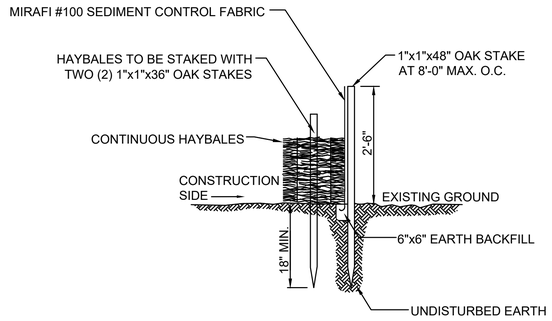
SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	13	21
PROJECT FILE NO.		--	

CONSTRUCTION DETAILS

2338506_HD(DET).DWG Plotted on 21-Apr-2022 2:17 PM



NOTES:

1. BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.

2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO (2) 1"X1"X36" OAK STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.

3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

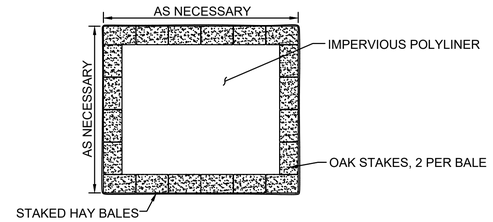
4. BALES SHALL BE REMOVED AND REPLACED WHEN THEY BECOME FILLED WITH SEDIMENT AND BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

5. BALES SHALL BE REMOVED WHEN THE EMBANKMENTS STABILIZE.

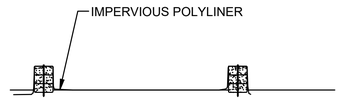
6. BALES TO BE TWINE BOUND.

SILT FENCE WITH HAYBALES

SCALE: NONE



PLAN VIEW



CROSS-SECTION

NOTE:

1. SUMPS TO BE CLEANED AND WASTE CONCRETE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF WORK AND AS NECESSARY.

CONCRETE WASHOUT AREA

SCALE: NONE

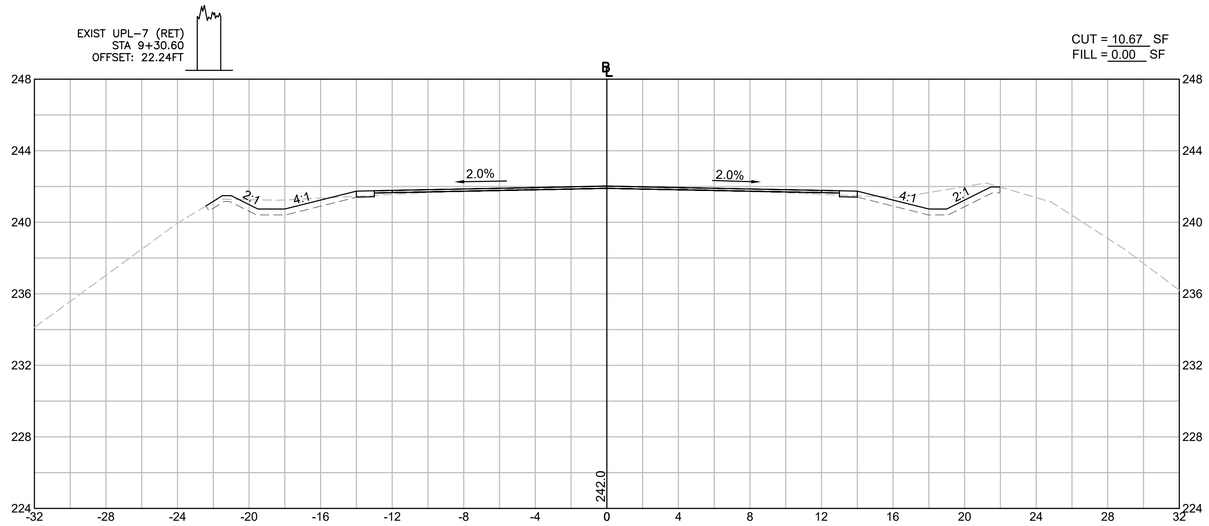
DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

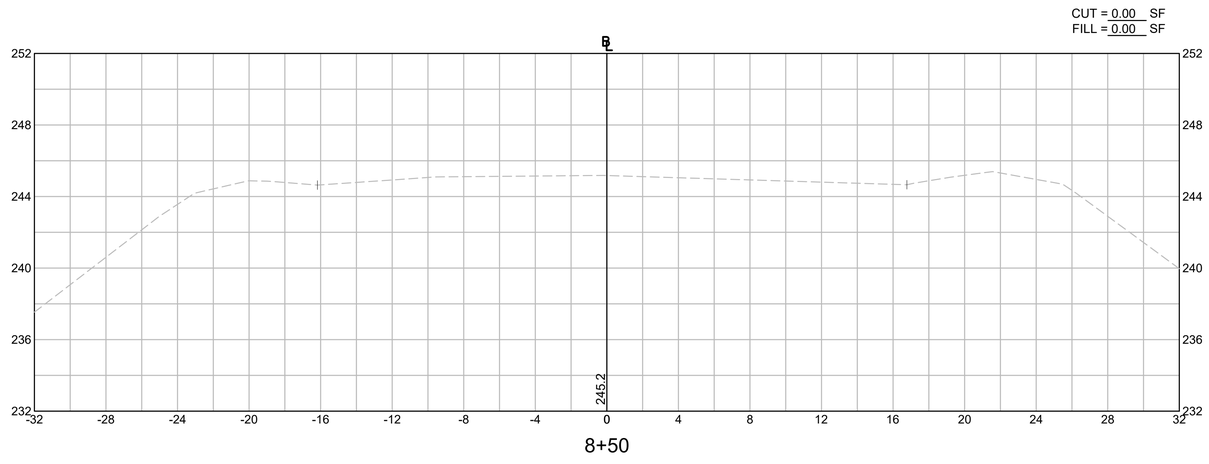
DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	14	21
PROJECT FILE NO.		--	

CROSS SECTIONS



9+00



8+50

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

2336506_HD(XS).DWG Plotted on 21-Apr-2022 2:18 PM

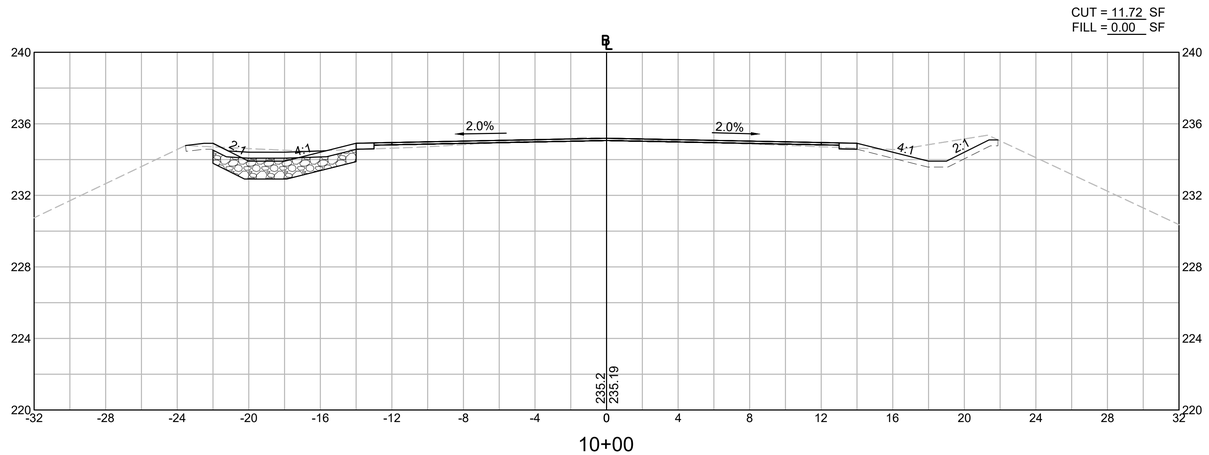
DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	15	21
PROJECT FILE NO.		--	

CROSS SECTIONS



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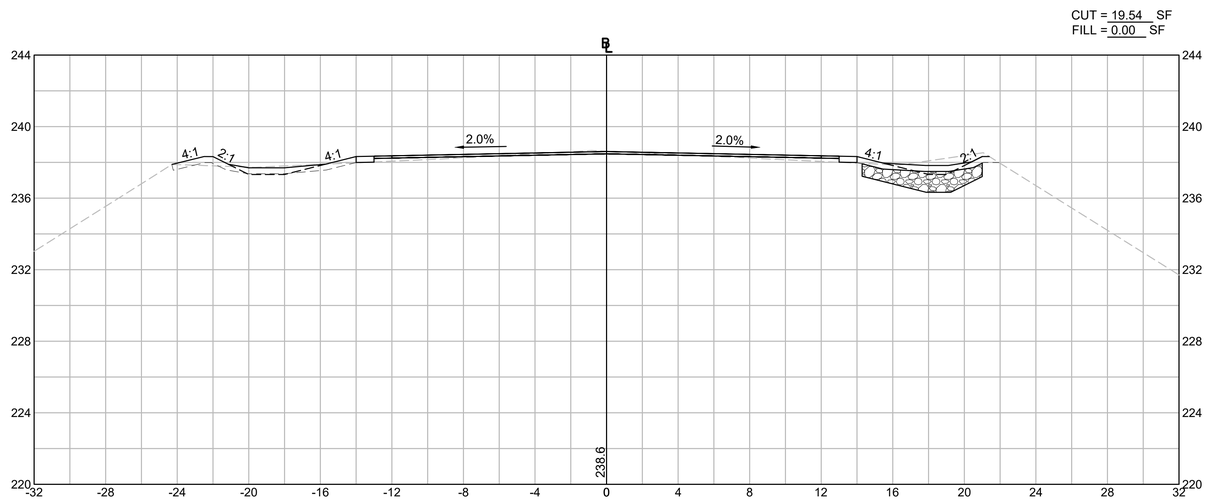

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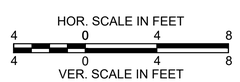
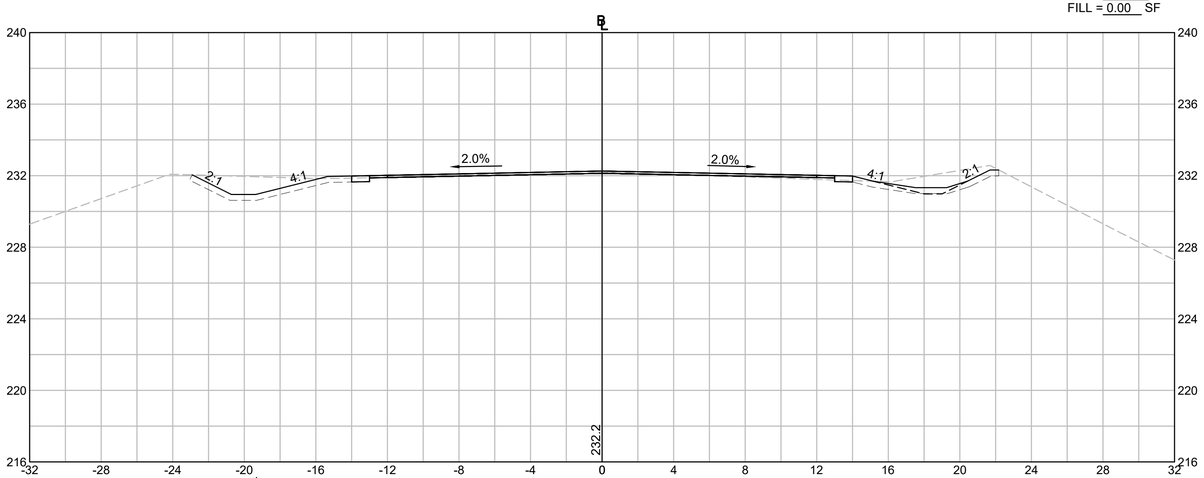


2336506_HD(XS).DWG Plotted on 21-Apr-2022 2:18 PM

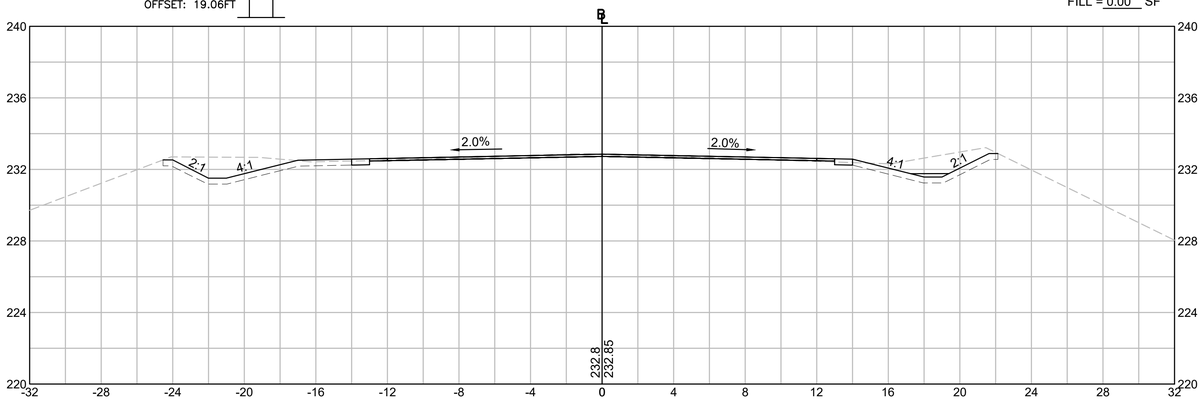
CUT = 20.74 SF
FILL = 0.00 SF



10+50

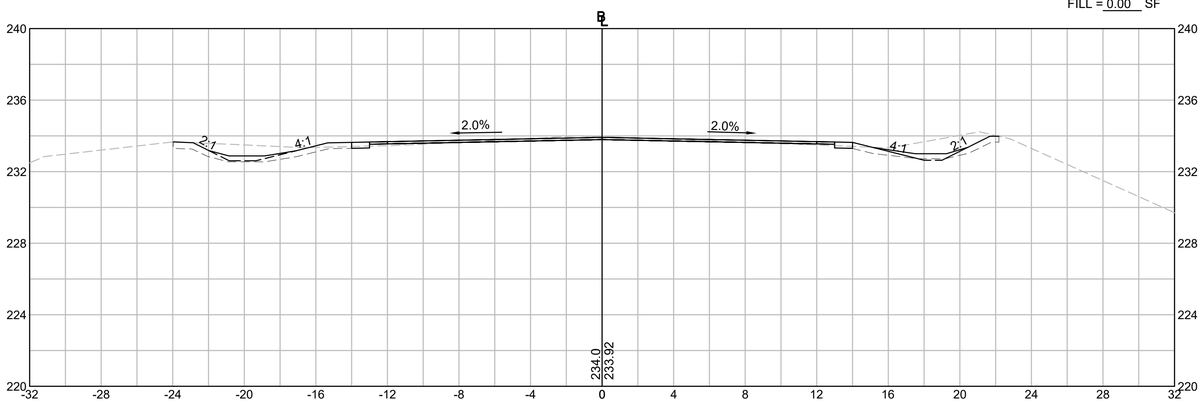
EXIST UPL-6 (RET)
STA 10+38.33
OFFSET: 19.06FT

CUT = 16.28 SF
FILL = 0.00 SF



10+38.33

CUT = 19.67 SF
FILL = 0.00 SF



10+20

DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	16	21
PROJECT FILE NO.		--	

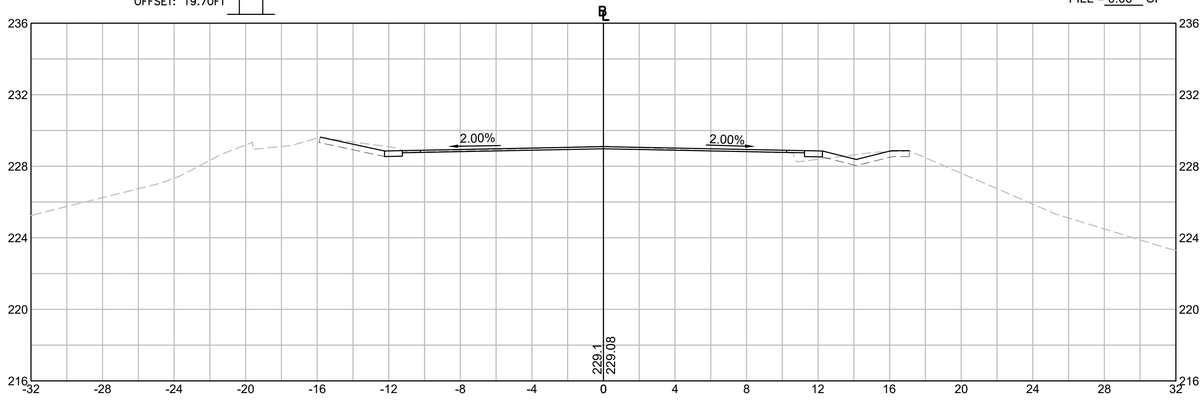
CROSS SECTIONS

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

2336506_HD(XS).DWG Plotted on 21-Apr-2022 2:18 PM

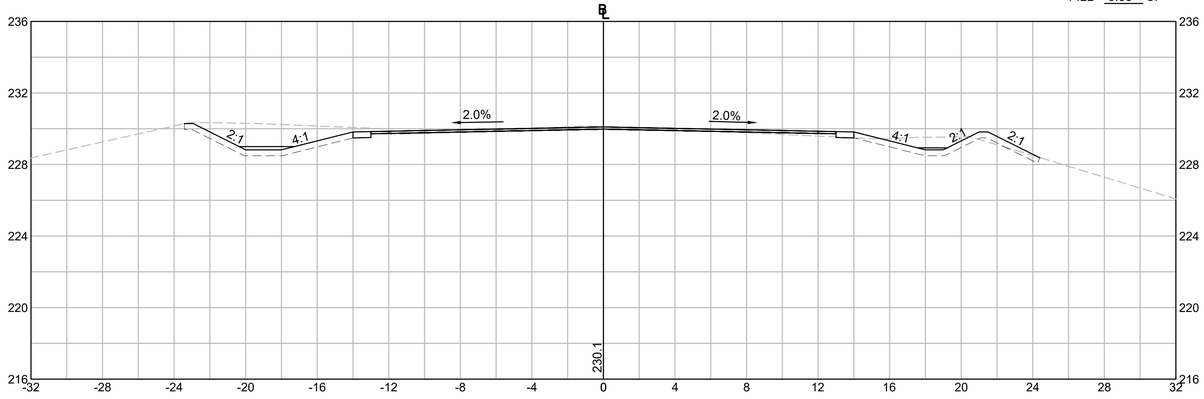
EXIST UPL-5 (RET)
STA 11+49.06
OFFSET: 19.70FT

CUT = 3.78 SF
FILL = 0.00 SF



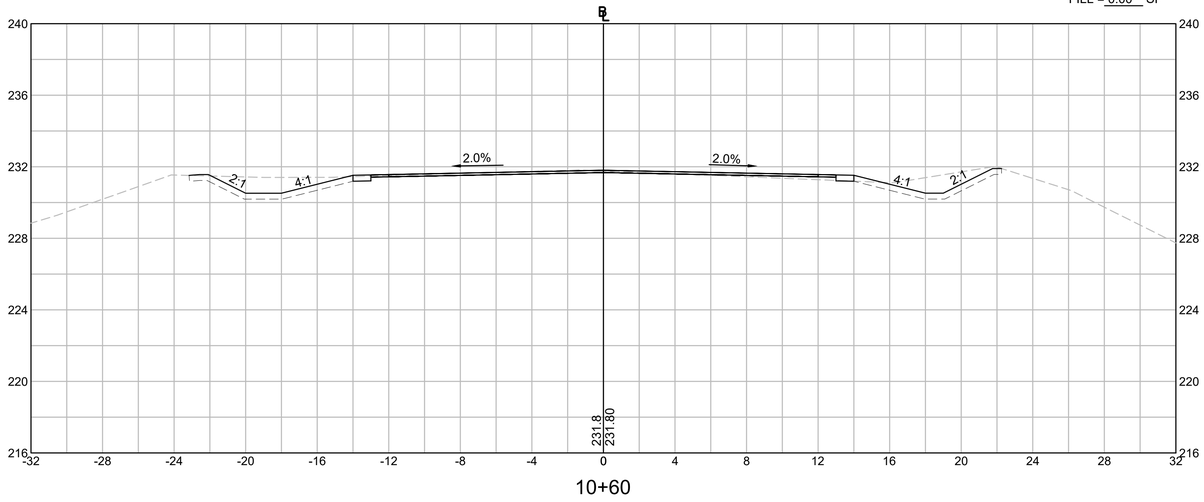
11+50

CUT = 17.04 SF
FILL = 0.00 SF



11+00

CUT = 13.82 SF
FILL = 0.00 SF



10+60

DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	17	21
PROJECT FILE NO.		--	

CROSS SECTIONS

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

2336506_HD(XS).DWG Plotted on 21-Apr-2022 2:18 PM

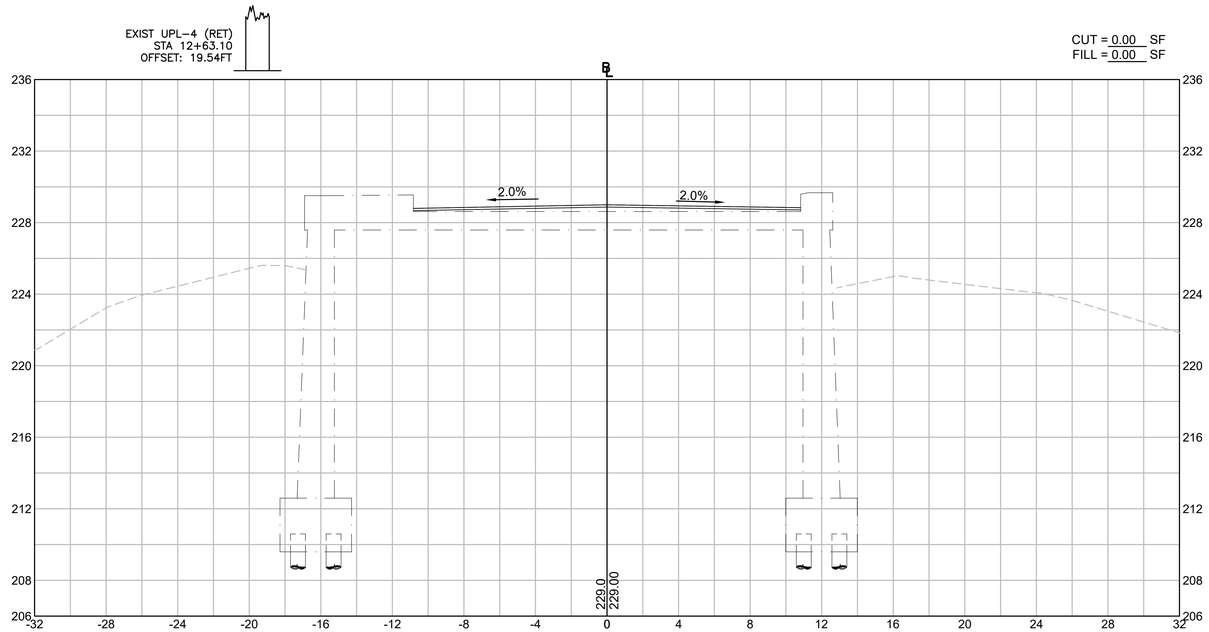
DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

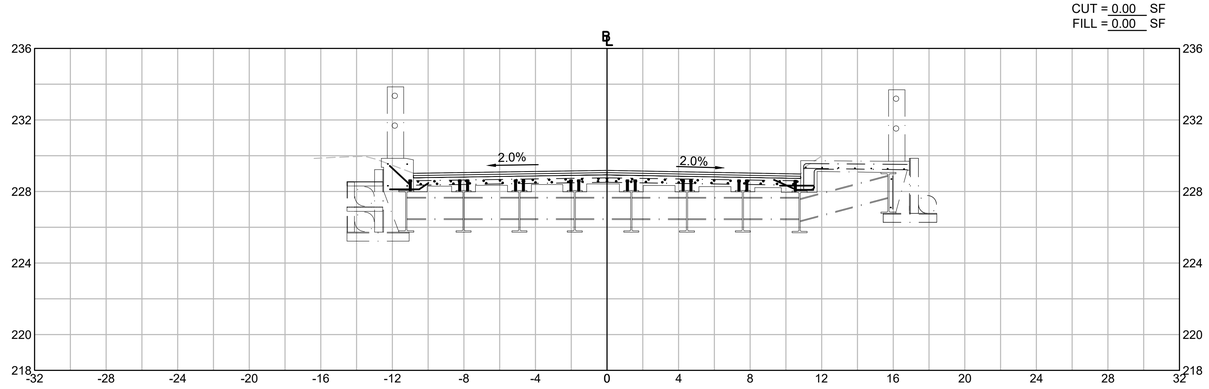
DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	18	21
PROJECT FILE NO.		--	

CROSS SECTIONS



12+50



12+00

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

2336506_HD(XS).DWG Plotted on 21-Apr-2022 2:18 PM

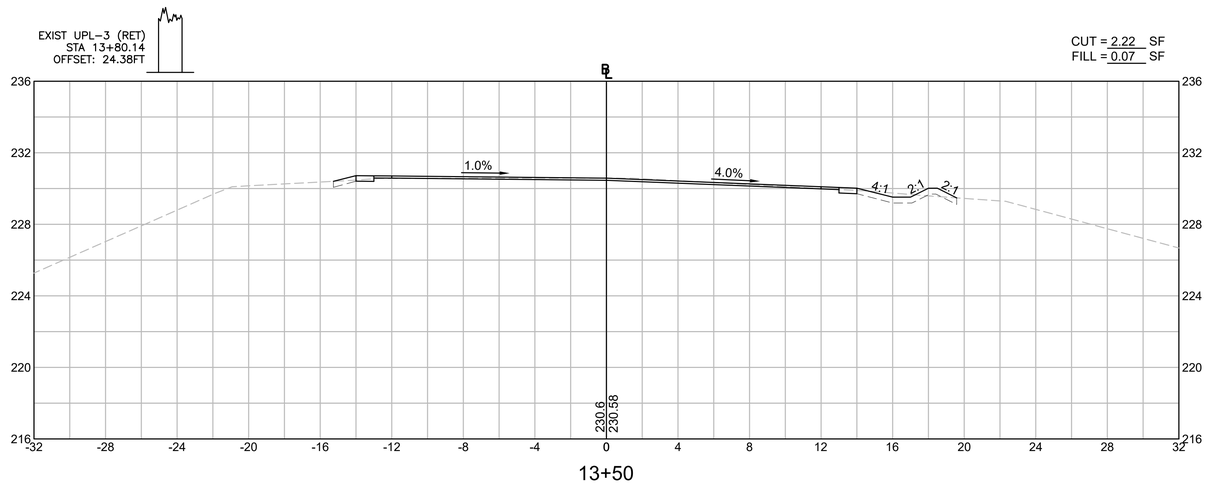
DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	19	21
PROJECT FILE NO.		--	

CROSS SECTIONS



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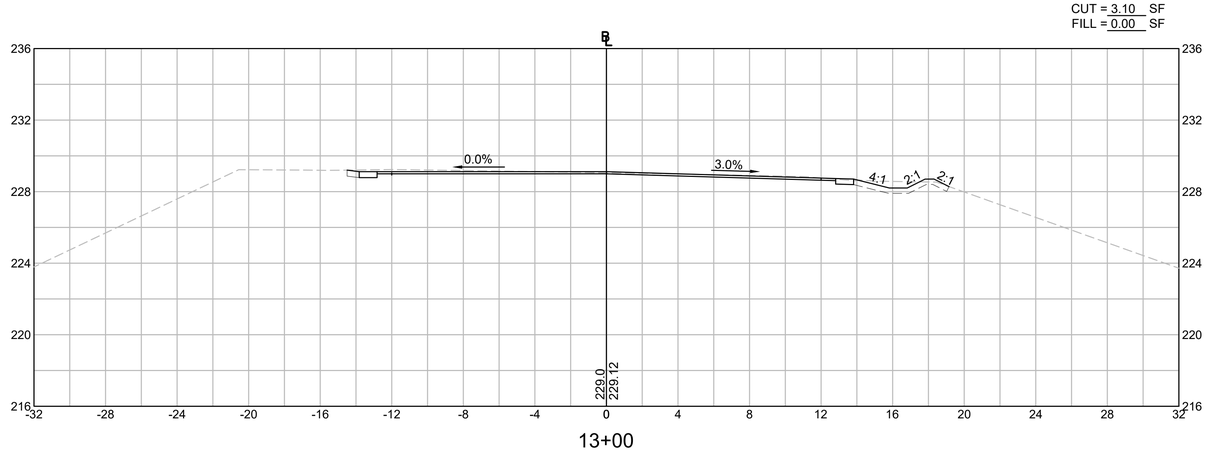


13+00

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

2336506_HD(XS).DWG Plotted on 21-Apr-2022 2:18 PM

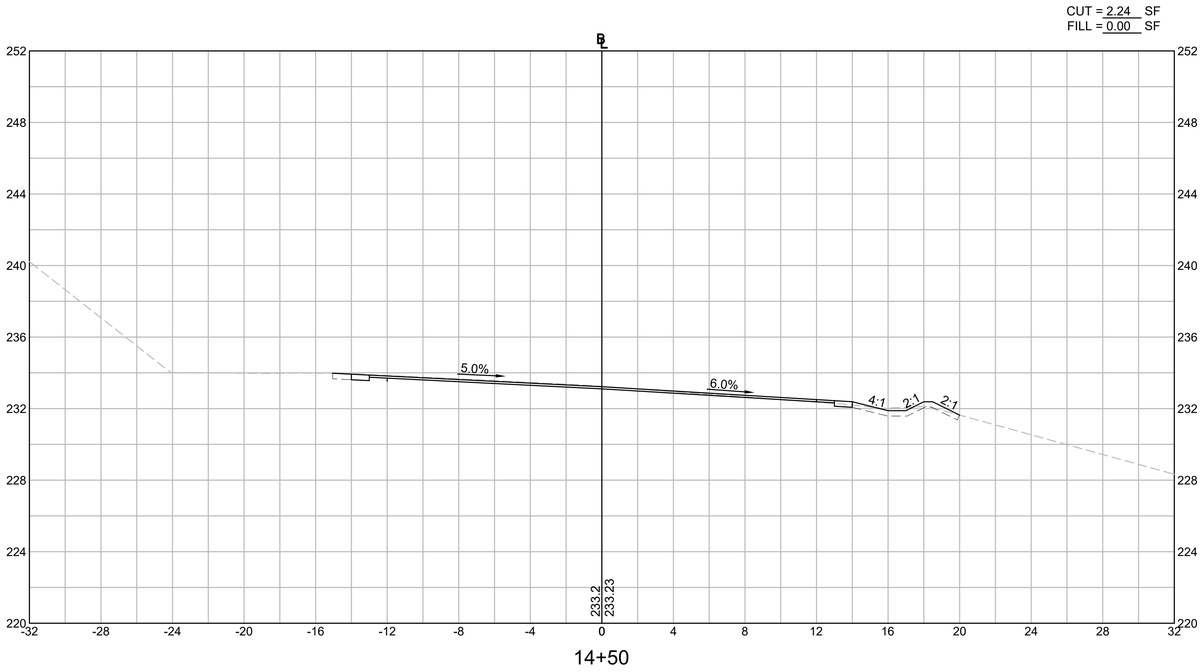
DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	20	21
PROJECT FILE NO.		--	

CROSS SECTIONS



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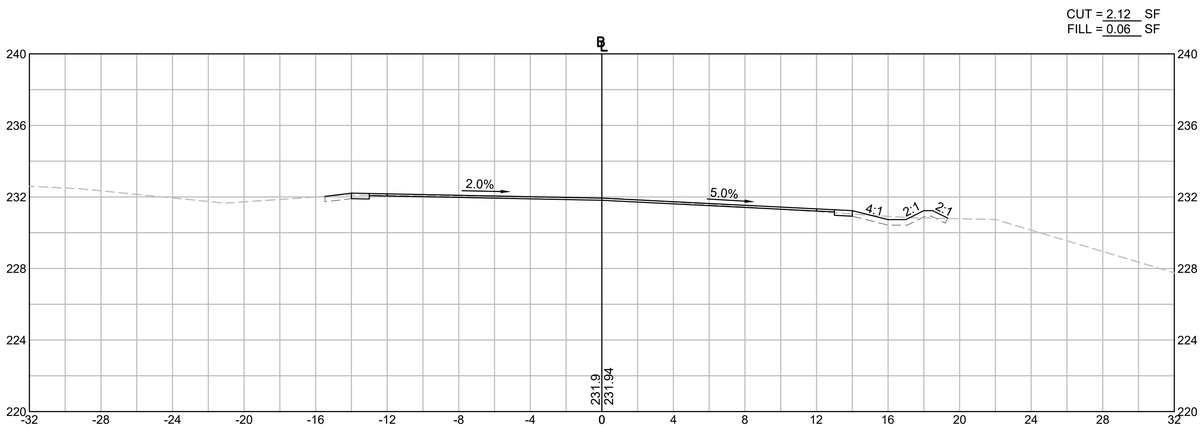


14+00

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

2336506_HD(XS).DWG Plotted on 21-Apr-2022 2:18 PM

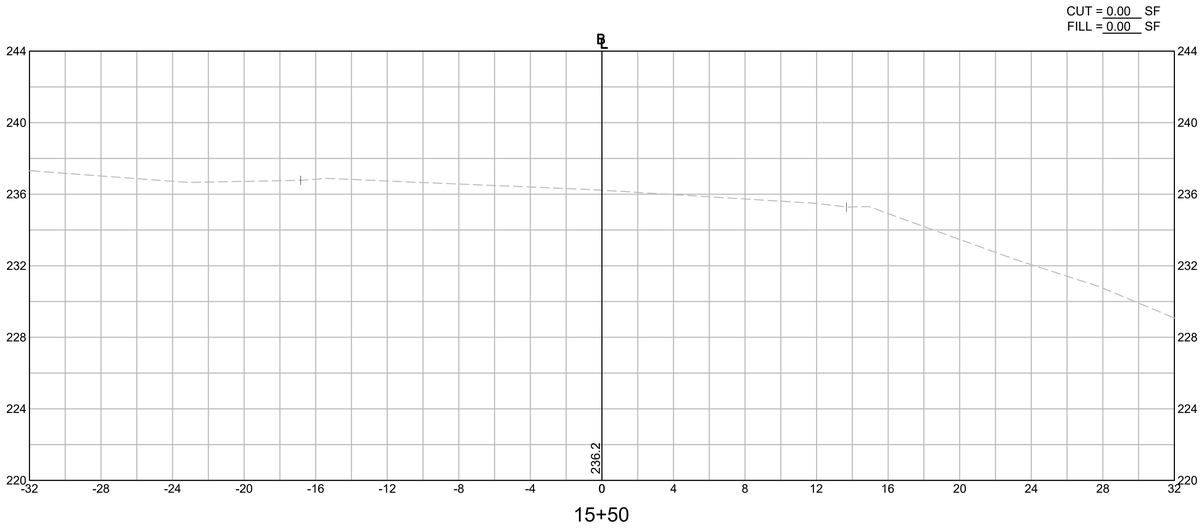
DEVENS ENTERPRISE COMMISSION ENDORSEMENT

SIGNATURE: _____ DATE: _____

DEVENS (SHIRLEY)
LOVELL ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	--	21	21
PROJECT FILE NO.		--	

CROSS SECTIONS



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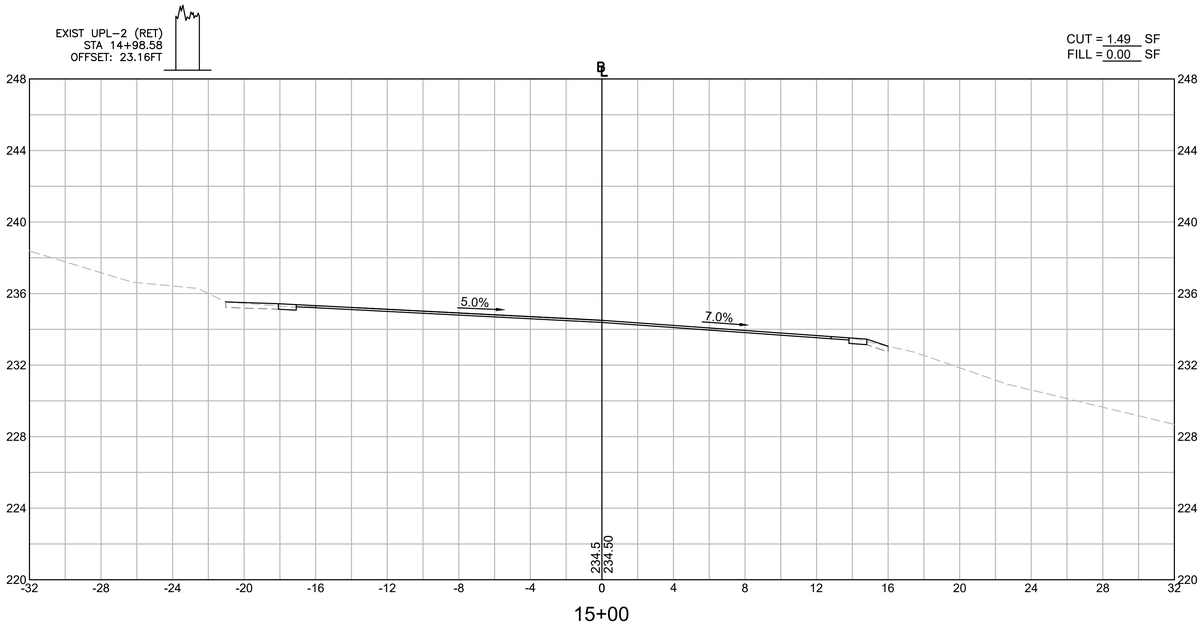

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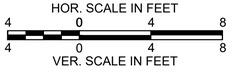

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