MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

PLAN AND PROFILE OF

MAIN STREET/ROUTE 8

IN THE TOWN OF

BECKET

BERKSHIRE COUNTY

FEDERAL AID PROJECT NO. - PRC(PRC80)-004S(013)X

BECKET
MAIN STREET/ROUTE 8

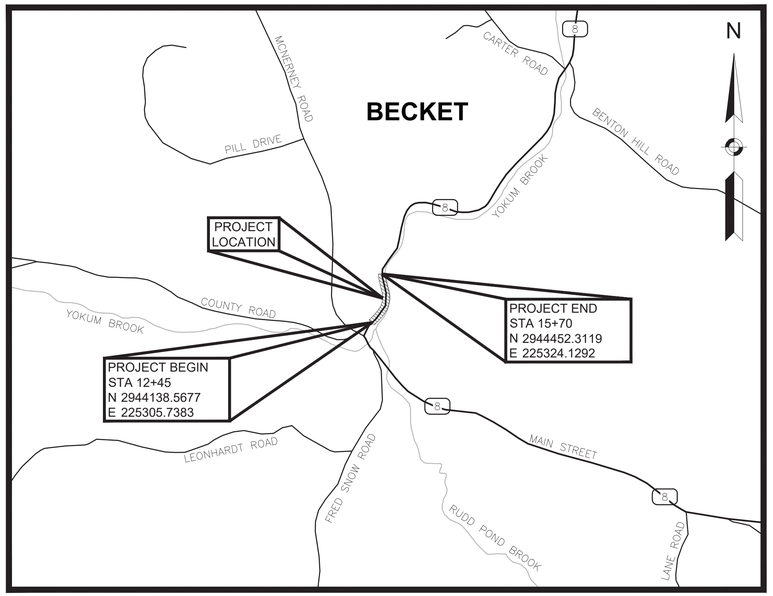
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	1	51
PROJECT FILE NO.	609506		

TITLE SHEET & INDEX

THESE PLANS ARE SUPPLEMENTED BY THE LATEST EDITIONS OF THE FOLLOWING PUBLICATIONS, AS IDENTIFIED IN THE CONTRACT SPECIAL PROVISIONS: THE MASSDOT CONSTRUCTION STANDARD DETAILS, THE MASSDOT STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE MASSDOT STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, THE MASSDOT OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, THE MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, AND THE ANSI AMERICAN STANDARD FOR NURSERY STOCK.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	GENERAL NOTES
3	LEGEND & ABBREVIATIONS
4	KEY PLAN
5	BORING LOCATION PLAN
6 - 15	BORING LOGS
16	TYPICAL SECTIONS
17 - 18	CONSTRUCTION BASELINE PLANS
19 - 20	CONSTRUCTION PLANS
21-22	CURB TIE AND GRADING PLANS
23 - 24	DRAINAGE & UTILITY PLANS
25 - 26	TRAFFIC SIGN & PAVEMENT MARKING PLANS
27-29	TEMPORARY TRAFFIC CONTROL PLANS
30	CONSTRUCTION DETAILS
31	SOIL NAIL WALL ALIGNMENT
32	SOIL NAIL WALL PROFILE
33-34	SOIL NAIL WALL DETAILS
35-51	CROSS SECTIONS - ROUTE 8



0 1000 2000 3000 4000

SCALE: 1" = 1000'

LENGTH OF PROJECT = 325.00 FEET = 0.062 MILES

DESIGN DESIGNATION (MAIN STREET/ROUTE 8)

DESIGN SPEED	35 MPH
ADT (2024)	1326
ADT (2044)	1465
K	8.6%
D	50.3% (SB)
T (PEAK HOUR)	4.3%
T (AVERAGE DAY)	8.4%
DHV	114
DDHV	63
FUNCTIONAL CLASSIFICATION	RURAL ARTERIAL

COMMONWEALTH OF MASSACHUSETTS
BRIAN J. MONTEJUNAS
CIVIL
NO. 47347
REGISTERED PROFESSIONAL ENGINEER

Brian J. Montejunas
Digitally signed by Brian J. Montejunas
Date: 2026.08.25 11:02:21 -04'00'

DATE	DESCRIPTION	REV #

massDOT
Massachusetts Department of Transportation
Highway Division

Jacobs
120 St. James Avenue
5th Floor
Boston, MA 02116

APPROVED

John Moran
Digitally signed by John Moran
Date: 2026.08.26 21:50:01 -04'00'

08/26/2026

CHIEF ENGINEER **DATE**

609506_HD01(TITLE)P&R.DWG Plotted on 19-Aug-2026 1:22 PM

SURVEY NOTES:

1. TOPOGRAPHIC INFORMATION SHOWN HEREON WAS COLLECTED USING CONVENTIONAL SURVEYING METHODS COMPLETED BY WSP IN JULY 2023.

2. NORTH ORIENTATION AND BEARING BASE SHOWN HEREON IS IN REFERENCE THE NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED ON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, MAINLAND ZONE.

3. HORIZONTAL COORDINATES SHOWN HEREON ARE IN REFERENCE TO THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT (NAD83/2011) PROJECTED ON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, MAINLAND ZONE.

4. ELEVATIONS RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, (NAVD88).

5. HORIZONTAL COORDINATE AND ELEVATION UNITS SHOWN HEREON ARE U.S. SURVEY FEET.

6. THE LOCATION OF UNDERGROUND IMPROVEMENTS, UTILITIES OR ENCROACHMENTS, IF ANY EXIST, OR AS SHOWN HEREON, ARE NOT CERTIFIED. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A UTILITY MARK OUT SERVICE. THE LOCATION OF UNDERGROUND UTILITIES DEPICTED ON THIS PLAN HAVE BEEN COMPILED FROM VARIOUS SOURCES, INCLUDING, BUT NOT LIMITED TO, RECORD PLANS OBTAINED FROM UTILITY PROVIDERS SERVICING THE PROJECT AREA AND LOCATING SURFACE EVIDENCE OF SUBSURFACE UTILITIES DURING THE FIELD SURVEY. THE LOCATION OF ALL UTILITIES DEPICTED ON THIS PLAN SHALL BE CONSIDERED APPROXIMATE. WSP MAKES NO WARRANTY NOR GUARANTEE AS TO THE ACCURACY OF THE LOCATION OF THE UTILITY LINES DEPICTED ON THIS PLAN. FURTHERMORE, WSP MAKES NO WARRANTY NOR GUARANTEE THAT THE UTILITIES DEPICTED ON THIS MAP COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ROUTE, SIZE AND LOCATION OF ALL UTILITIES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES. THE PROPER UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION SHALL BE NOTIFIED, AND A UTILITY MARK OUT SERVICE DEPLOYED PRIOR TO CONDUCTING TEST BORINGS, EXCAVATIONS AND/OR CONSTRUCTION.

7. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE.

8. GPS CONTROL POINTS NOS.3313 AND 3314, ESTABLISHED BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION GEODETIC DIVISION, WERE HELD AS FIXED HORIZONTAL CONTROL FOR THE PROJECT. A SECONDARY CONTROL NETWORK CONSISTING OF SURVEY CONTROL TRAVERSE POINTS WAS ESTABLISHED THROUGHOUT THE PROJECT BY CONVENTIONAL TRAVERSE METHODS. THE SECONDARY CONTROL NETWORK WAS CONSTRAINED TO THE GPS CONTROL USING A LEAST SQUARES NETWORK ADJUSTMENT.

9. BENCHMARK TT 21 TDA 1942 (MASSDOT ID 4084) WAS HELD AS THE REFERENCE NAVD88 VERTICAL CONTROL FOR THE PROJECT. A DIFFERENTIAL LEVEL RUN WAS PERFORMED FROM SAID CONTROL POINT TO ESTABLISH SECONDARY CONTROL POINTS, AND PROJECT BENCHMARKS THROUGHOUT THE PROJECT AREA.

10. THE ROTATION FROM MASS HIGHWAY LAYOUT BEARING SYSTEMS TO THE BEARING SYSTEM OF THIS BASEPLAN ARE AS LISTED BELOW:

    LAYOUT 1762 OF 1917 IS 12°11'11" (COUNTER-CLOCKWISE)
    LAYOUT 2521 OF 1928 IS 12°09'45" (COUNTER-CLOCKWISE)

11. REFER TO TABLE BELOW FOR CONTROL POINTS AND HIGHWAY BOUNDS OUTSIDE THE PROJECT LIMITS:

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	2944081.581	225288.486	1444.455	SPUR SPK
53	2944091.331	225221.879	1453.559	SPUR SPK
MHB	2944038.529	225273.666	-	-
MHB	2944027.541	225191.341	-	-
51	2944050.272	225155.872	1458.712	SPUR SPK
1	2943988.734	225204.497	1446.605	MTRV SPK
MHB	2943880.708	225026.287	-	-
3332	2943752.571	225018.708	1450.752	MAG TRV 332
MHB	2944461.630	225287.661	-	-
MHB	2944487.613	225274.402	-	-
3	2944592.928	225273.249	1426.304	MTRV SPK
3331	2943380.701	225301.496	1462.681	GPS
61	2943360.237	225357.848	1465.180	SPKE SUR

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY MASSACHUSETTS HIGHWAY BOUND OR PRIVATE PROPERTY PIN THAT IS DISPLACED OR DESTROYED DURING CONSTRUCTION, TO ITS CORRECT LOCATION AT THE COMPLETION OF THE WORK.

2. THE CONTRACTOR IS HEREBY NOTIFIED THAT ADDITIONAL WORK WITHIN THE PROJECT LIMITS MAY BE PERFORMED BY OTHERS.

3. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH OTHER CONTRACTORS PERFORMING WORK WITHIN AND AT THE PROJECT LIMITS.

4. THE CONTRACTOR MAY BE REQUIRED TO PERFORM ITEMS OF WORK OUT OF NORMAL SEQUENCE AND SCHEDULE, AS DIRECTED BY THE ENGINEER, IN ORDER TO MEET THE OVERALL PROJECT SCHEDULE.

5. THE CONTRACTOR SHALL BE REQUIRED TO PROCURE PROJECT RELATED ITEMS WITHOUT ADVERSELY IMPACTING THE PROJECT SCHEDULE; THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT THE APPROPRIATE SHOP DRAWINGS WITH SUFFICIENT LEAD TIME FOR PROCESSING IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.

6. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL CONFORM TO ALL OF THE REQUIREMENTS SET FORTH IN THE SPECIFICATIONS WITH REGARD TO UTILITY NOTIFICATIONS AND TO SUBMITTALS REQUIRED BY THE CONTRACTOR REGARDING THE MAINTENANCE AND PROTECTION OF TRAFFIC.

7. DAMAGE TO PRIVATE PROPERTIES BEYOND THE WORK LIMITS AS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED "IN-KIND" BY THE CONTRACTOR AT THE CONTRACTOR'S SOLE EXPENSE.

8. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED, BY THE CONTRACTOR, TO THEIR ORIGINAL CONDITION, AT THE CONTRACTOR'S SOLE EXPENSE.

9. TREES AND SHRUBS WITHIN THE LIMITS OF WORK NOT SCHEDULED FOR REMOVAL AS INDICATED ON THE PLANS SHALL ONLY BE REMOVED UPON APPROVAL OF THE ENGINEER.

10. ALL EROSION CONTROLS MUST BE CHECKED, REPLACED OR REPAIRED AS NECESSARY, AND ANY SILTATION REMOVED, AFTER EACH RAIN EVENT.

11. ALL TRANSVERSE JOINTS, AND ALL LONGITUDINAL JOINTS BETWEEN NEW SURFACE PAVEMENT AND EXISTING SURFACE PAVEMENT TO REMAIN SHALL BE COATED WITH A HOT POURED RUBBERIZED ASPHALT SEALANT MEETING THE REQUIREMENTS OF FEDERAL SPECIFICATION NUMBER SS-S-1401.

12. AN ORDER OF CONDITIONS WAS ISSUED BY THE BECKET CONSERVATION COMMISSION. THE CONTRACTOR MUST PROVIDE 7 DAYS NOTICE TO THE BECKET CONSERVATION COMMISSION PRIOR TO COMMENCING ANY WORK.

UTILITY NOTES:

1. THE LOCATIONS, SIZES, AND MATERIALS OF THE EXISTING UTILITIES ARE SHOWN HEREON HAVE BEEN COMPILED FROM VISIBLE STRUCTURES, PAINT MARKS, AND PLANS FROM UTILITY COMPANIES, IF AVAILABLE. THE ACTUAL LOCATIONS OF ALL UTILITIES AND UNDERGROUND STRUCTURES SHALL BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. JACOBS AND ITS SUB-CONSULTANTS, MASSDOT, AND THE TOWN OF BECKET MAKE NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION HEREON.

2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ANY AND ALL EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO THE START OF CONSTRUCTION.

9. LOCATIONS OF M.H., G.G. W.G., ETC. ARE APPROXIMATE AND ARE SHOWN ONLY AS AN AID TO ASSIST BIDDERS IN DETERMINING LOCATIONS OR EXISTING UTILITIES AND SUBSURFACE STRUCTURES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAKING REQUIRED FIELD INVESTIGATIONS AND OBTAINING INFORMATION FROM UTILITY COMPANIES AND INDIVIDUALS TO PINPOINT THE EXACT LOCATIONS AND ELEVATIONS OF ALL SUBSURFACE UTILITIES AND STRUCTURES.

10. THE CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888-344-7233), AT LEAST 72 BUSINESS HOURS BEFORE ANY CONSTRUCTION BEGINS.

11. SHOULD AN EXISTING UTILITY BE FOUND TO BE IN CONFLICT WITH THE PROPOSED WORK, THE LOCATION, SIZE AND TYPE SHALL BE ACCURATELY DETERMINED WITHOUT DELAY. BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.

12. THE CONTRACTOR SHALL COORDINATE ALL ARRANGEMENTS FOR THE ALTERATION AND/OR ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITY THROUGH THE MASSDOT HIGHWAY DIVISION UTILITY SECTION.

13. THE CONTRACTOR SHALL ADJUST ALL SEWER MANHOLES, GAS GATES, WATER VALVE GATE BOXES, WATER SERVICE BOXES, CURB STOPS, AND OTHER WATER APPURTENANCES WITHIN LIMITS TO THE PROPOSED FINISH GRADE.

14. DAMAGE CAUSED BY THE CONTRACTOR'S ACTIONS TO EXISTING PRIVATE WATER OR SANITARY SEWER SERVICE LINES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

TRAFFIC CONTROL NOTES:

1. SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS AND WORK ZONE PROTECTION SHALL BE IN ACCORDANCE WITH CURRENT MASSDOT AND MUTCD REQUIREMENTS AND SPECIFICATIONS.

2. ALL CONSTRUCTION SIGNS IN PLACE BUT NOT PERTINENT TO THE ONGOING CONSTRUCTION PHASING SHALL BE COVERED OR "BAGGED".

3. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE AND ORDERLY PASSAGE OF VEHICLE, BICYCLE AND PEDESTRIAN TRAFFIC IN AREAS UNDER CONSTRUCTION.

4. ANY AND ALL TRAFFIC RELATED ITEMS REQUIRED TO MAINTAIN TRAFFIC FLOW THROUGH OR AROUND THE PROJECT AREA SHALL BE MAINTAINED IN A CONDITION ACCEPTABLE TO THE ENGINEER. FURTHER, THE CONTRACTOR SHALL REPLACE THOSE ITEMS AS REQUIRED BY THE SPECIFICATIONS OR AS DEEMED NECESSARY BY THE ENGINEER.

MARKING AND SIGNING NOTES:

1. ALL PROPOSED PAVEMENT MARKINGS SHALL MATCH EXISTING MARKINGS AT THE LIMITS OF WORK.

2. THE FINAL LOCATION OF PROPOSED TRAFFIC SIGNS AND SUPPORTS AS SHOWN IN THE PLANS SHALL BE FIELD-CONFIRMED BY THE ENGINEER PRIOR TO INSTALLATION.

ROCK REMOVAL AND BLASTING NOTES:

1. TOP OF BEDROCK ELEVATION CONTOURS ARE BASED ON INTERPRETATION OF AVAILABLE BORING LOGS AND LINEAR INTERPOLATION BETWEEN BORING LOCATIONS. THIS DATA IS PROVIDED FOR INFORMATION ONLY.

2. ACTUAL TOP OF BEDROCK ELEVATIONS BETWEEN BORING LOCATIONS MAY DIFFER FROM WHAT HAS BEEN ESTIMATED AND SHOWN ON THIS PLAN.

3. REFER TO DRAWINGS AND SPECIFICATIONS FOR BORING LOGS FROM RECENT STUDIES.

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	2	51
PROJECT FILE NO.	609506		

GENERAL NOTES

609506_HD02(GENERALNOTES).DWG Plotted on 6-Jul-2026 4:23 PM

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER
CB	CB	CATCH BASIN
		CATCH BASIN CURB INLET
		SILT SACK
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 BARRIER
		COIR LOG SEDIMENT 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
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

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
	6" SWL	SOLID WHITE LINE
	6" SYL	SOLID YELLOW LINE
	6" 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
M&O	MILL & OVERLAY
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCR	PEDESTRIAN CURB RAMP
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

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	3	51
PROJECT FILE NO.	609506		

LEGEND & ABBREVIATIONS

ABBREVIATIONS (cont.)

GENERAL

PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
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
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

TRAFFIC SIGNAL ABBREVIATIONS

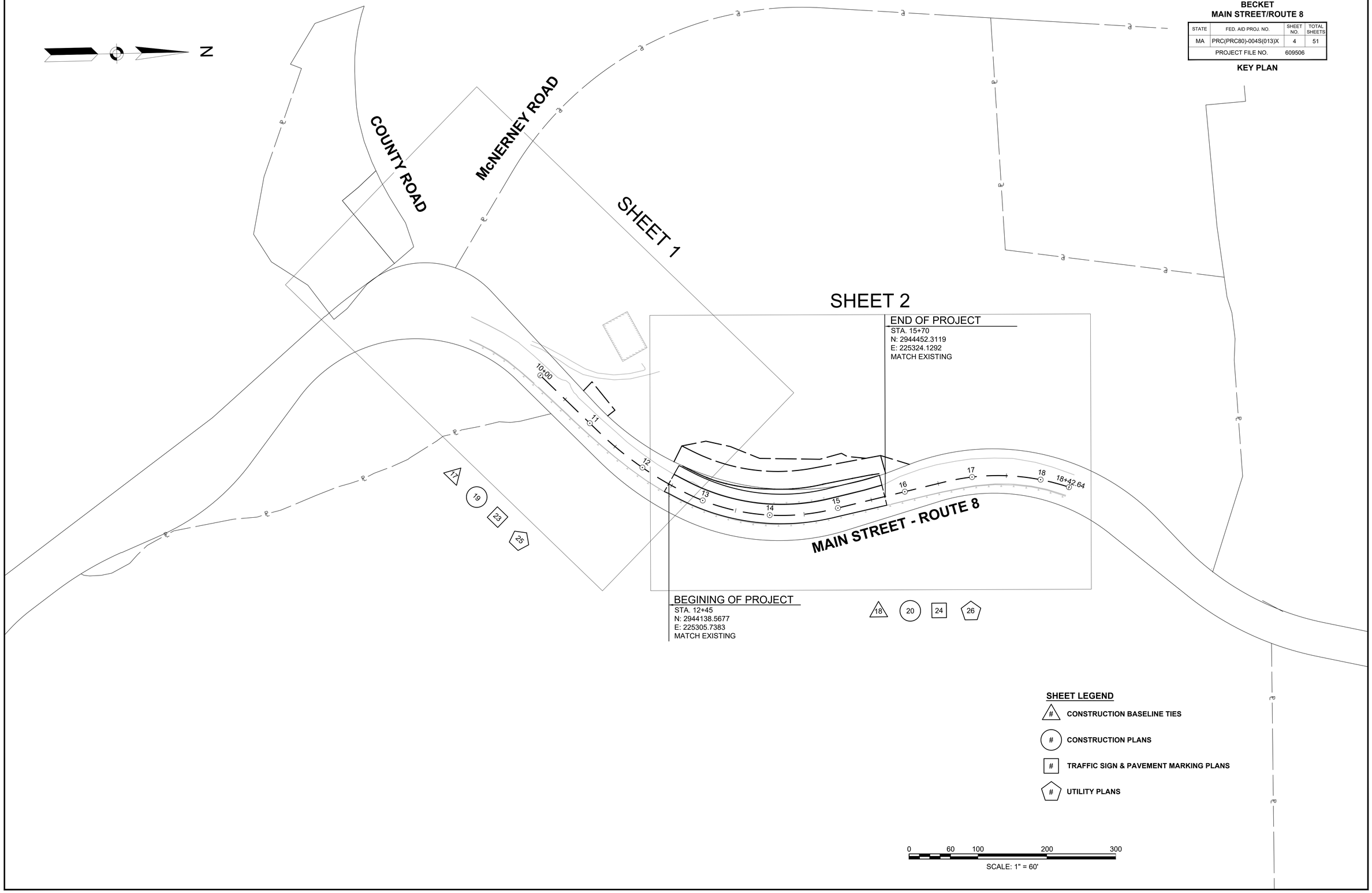
CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY 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

609506_HDG3(LEGEND).DWG Plotted on 6-Jul-2026 4:24 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	4	51
PROJECT FILE NO.	609506		

KEY PLAN

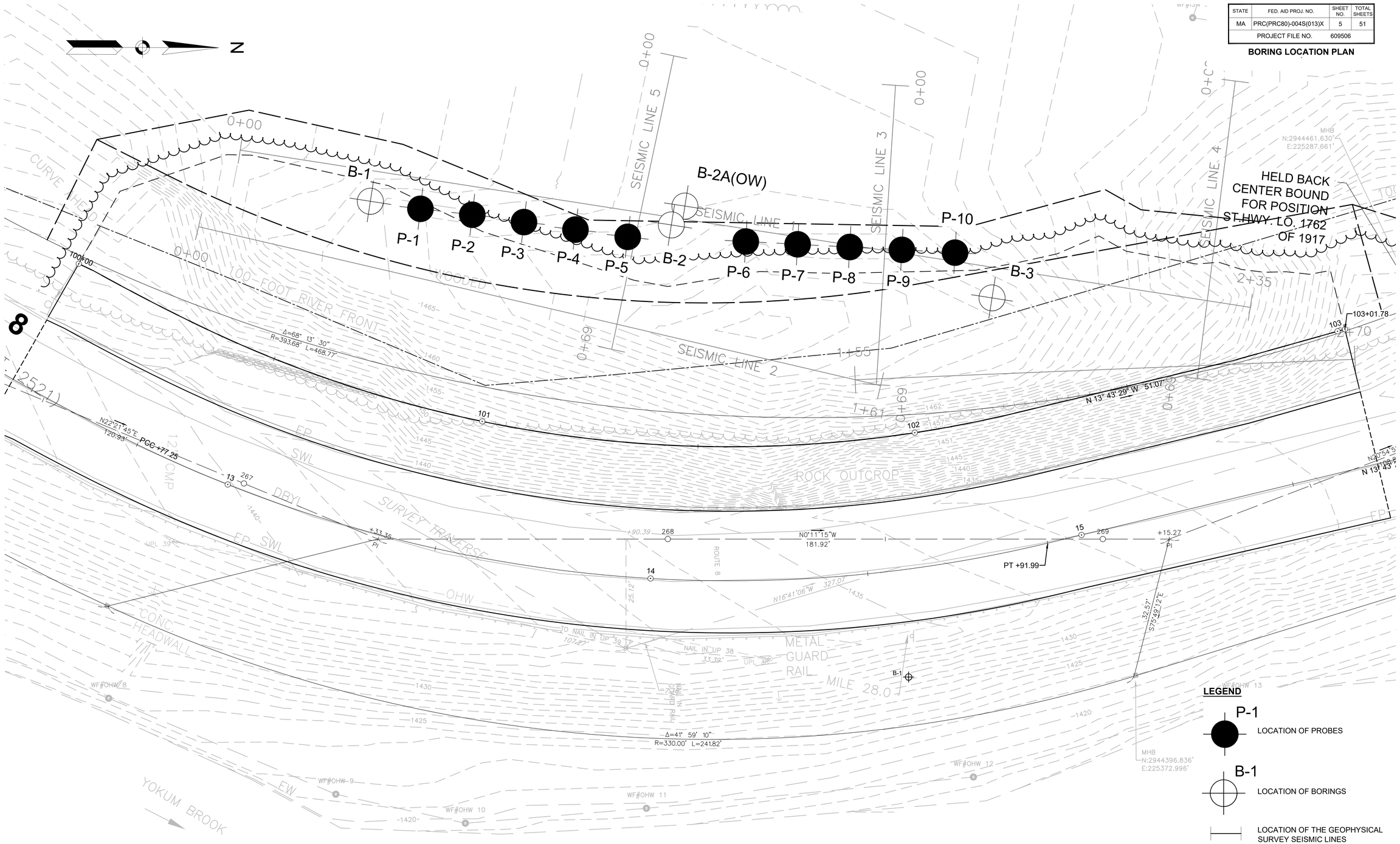


KEY PLAN & BORING LOCATIONS.DWG Plotted on 6-Jul-2026 4:26 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	5	51
PROJECT FILE NO.	609506		

BORING LOCATION PLAN



609506_HD(BORING LOCATIONS).DWG Plotted on 6-Jul-2026 4:29 PM

BORING NOTES:

1. LOCATION OF BORINGS, PROBES, AND GEOPHYSICAL SEISMIC REFRACTION LINES SHOWN ON THE PLAN THUS:

   B - #

   P - #

   SEISMIC LINE #

2. BORINGS AND PROBES ARE TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.

3. WATER LEVELS SHOWN OF THE BORING LOGS WERE OBSERVED AT THE TIME OF TAKING BORINGS AND DO NOT NECESSARILY SHOW THE NATURE OF THE TRUE GROUND WATER LEVEL.

4. FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 3/8" I.D. SPLIT SPOON SAMPLER 6" USING A 140 POUND WEIGHT FALLING 30".

5. BORING SAMPLES ARE STORED AT A STORAGE FACILITY LOCATED ON ROUTE 114 (219 WINTHROP AVE.) IN LAWRENCE, MA. THE CONTRACTOR MAY EXAMINE THE SOIL AND ROCK SAMPLES BY CONTACTING THE MASSDOT GEOTECHNICAL SECTION AT 10 PARK PLAZA, BOSTON, MA.

6. ALL BORINGS WERE MADE IN APRIL AND MAY 2024.

7. BORINGS WERE MADE BY SEABOARD DRILLING, LLC OF CHICOPEE, MA UNDER THE DIRECTION OF JACOBS ENGINEERING.

8. THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.

9. GEOPHYSICAL SURVEY PERFORMED BY HAGER-RICHTER GEOSCIENCE TO SUPPLEMENT DETERMINATION OF THE SUBSURFACE CONDISTIONS. GEOPHYSICAL SURVEY REPORT DATED JUNE 2024 IS INCLUDED IN THE GEOTECHNICAL DESIGN REPORT DATED MAY 2026.

10. BOREHOLE GEOPHYSICAL LOGGING PERFORMED BY HAGER-RICHTER GEOSCIENCE TO SUPPLEMENT DETERMINATION OF THE SUBSURFACE CONDITIONS. BOREHOLE GEOPHYSICAL LOGGING DATA REPORT DATED JUNE 2024 IS INCLUDED IN THE GEOTECHNICAL DESIGN REPORT DATED MAY 2026.

LOG OF TEST BORING

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal	BORING NO.	B-1		
LOCATION	Becket, MA				
OWNER	MassDOT		SHEET 1 OF 2		
JOB NUMBER	E2X93632 (Proj File No. 609506)				
INSPECTOR	V. Kulkarni/Don M.	CONTRACTOR	Seaboard Drilling	DRILLER	Dale G.
METHOD OF DRILLING	GROUNDWATER READINGS	DRILL RIG	D50 ATV		
0.0 Wash Boring w/ 4" Casing	DATE/TIME	DEPTH(ft)	REMARKS	SPT HAMMER	140 lb Auto
9.0 NX Rock Core	04-22-2024 / 8:50 AM	23.0	During Drilling (Casing at 5.5')		
40.8 Terminated	04-23-2024 / 8:10 AM	20.8	During Drilling (Casing at 5.5')		
	04-26-2024 / 1:15 PM	21.3	During Drilling (Casing at 5.5')		

ELEVATION	1464.3		
DATUM	NAVD 88		
GRID	N	2944220.563	
COORD	E	225264.514	
DATE START	4/19/24		
DATE END	4/23/24		

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
		1 1 2 50/4"	3	S-1	0 - 1.83	22/9		SAND	S-1A (Top 4"): Dry, very loose, black and dark brown, fine SAND, some Silt, trace Gravel (Topsoil); S-1B (Bot 5"): Dry, very loose, black and dark brown, fine SAND, some Silt, trace Gravel, angular weathered rock pieces observed at bottom of the sample.	1
		20 27 127/11.5"		S-2	2.5 - 3.9	18/14			S-2: Moist, very dense, brown fine SAND, some Silt, angular weathered rock pieces observed at bottom of the sample.	
1460	5	100/5.5" 57 100/5.5"	100/5.5"	S-3	4.5 - 5.5	12/12			S-3A (Top 4"): Moist, very dense, dark grayish brown, fine SAND, some Silt, little fine to coarse Gravel; S-3B (Bottom 7.5"): Moist, very dense, reddish brown to gray, fine SAND, trace Gravel, trace Silt, weathered rock pieces observed at the tip.	
								5.5 W.R		
								8.5		2
1455	10	RQD=30		C-1	9 - 14	60/28			C-1: GRANITE GNEISS, light to dark gray, fine to medium grained, hard, strong, slightly weathered, massive, steeply dipping foliation, laminated foliation; very closely to closely spaced, moderately dipping joints, with iron oxide staining to 0.5 mm coating, extremely to moderately fractured. Drilling Rates (mins/ft): 4.5 - 3 - 1.5 - 6 - 5.5	
1450	15	RQD=73		C-2	14 - 19	60/60			C-2: GRANITE GNEISS, light to dark gray, fine to medium grained, hard, strong, slightly weathered, massive, steeply dipping foliation, laminated to very thin foliation; steeply dipping quartz veining to 10 mm; extremely closely to moderately spaced, shallow to steeply dipping joints with iron oxide staining to coating to 4 mm, extremely to moderately fractured. Drilling Rates (mins/ft): 2.5 - 3 - 3 - 3.5 - 5	
1445	20	RQD=95		C-3	19 - 24	60/57			C-3: GRANITE GNEISS, light to dark gray, fine to medium grained, hard, strong, slightly weathered, massive, moderately dipping foliation, laminated foliation; closely to moderately spaced, shallow to moderately dipping joints with iron oxide staining, moderately to slightly fractured. Drilling Rates (mins/ft): 3 - 4 - 4 - 4.5 - 4	
1440	25	RQD=65		C-4	24 - 29	60/51		BEDROCK	C-4: GRANITE GNEISS, dark gray, fine to medium grained, hard to very hard, strong to very strong, fresh, massive, moderately to steeply dipping foliation, laminated to thinly foliated, completely to highly weathered and very soft at 26.4-26.7 ft; very closely to widely spaced, shallow to moderately dipping joints with iron oxide staining, extremely to slightly fractured. Drilling Rates (mins/ft): 5 - 5 - 5 - 6 - 14	
1435	30	RQD=97		C-5	29 - 34	60/60			C-5: GRANITE GNEISS, dark gray, fine to medium grained, hard to very hard, strong to very strong, fresh, massive, moderately to steeply dipping foliation, laminated to thinly foliated; extremely closely to widely spaced, steeply dipping joint with iron oxide staining, extremely fractured to sound. Drilling Rates (mins/ft): 15 - 10 - 12 - 12 - 14	
1430	35			C-6	34 - 39	60/60			C-6: GRANITE GNEISS, dark gray and red, fine to coarse grained, very	

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Cobbles encountered from 1.9' to 2.5'.
2. Angular fragments of dark gray bedrock from 8.5' to 9'. Top of competent bedrock at 8.5'.

Sampler Type: SS | Size: 1-3/8" ID
Automatic Hammer Weight: 140 lb
Safety Hammer Weight: N/A
Donut Hammer Weight: N/A
Fall: 30"

LOG OF TEST BORING

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal	BORING NO.	B-1 CONTINUED
LOCATION	Becket, MA		
OWNER	MassDOT		SHEET 2 OF 2
JOB NUMBER	E2X93632 (Proj File No. 609506)		

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
		RQD=92							hard, strong to very strong, fresh, massive, steeply dipping to vertical foliation, laminated to very thinly foliated; extremely closely to widely spaced, steeply dipping joint with iron oxide staining, extremely fractured to sound, bottom 9" recovered in C-7 core run. Drilling Rates (mins/ft): 18 - 23 - 39 - 45 - 75	
1425	40	RQD=82		C-7	39 - 40.83	22/22			C-7: GRANITE GNEISS, dark gray, fine to medium grained, very hard, very strong, fresh, massive, laminated foliation, steeply dipping foliation; closely spaced, horizontal mechanical breaks with fresh surfaces, no natural discontinuity in C-7 core run; discontinuity spacing greater than 18"; slightly fractured to sound. Drilling Rates (mins/ft): 188 - 183/10" Bottom of Borehole at 40.83 feet.	4
								40.83		5
1420	45									
1415	50									
1410	55									
1405	60									
1400	65									
1395	70									
1390										

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

4. Excessive core times may be due to excessive wear on rock core barrel cutting head. Core C-7 terminated at 40.83 feet.
5. Borehole geophysical logging (OTV/ATV) conducted by HRGS on 04/26/24 and upon completion, hole backfilled with bentonite chips and cement grout as casing was withdrawn.

Sampler Type: SS | Size: 1-3/8" ID
Automatic Hammer Weight: 140 lb
Safety Hammer Weight: N/A
Donut Hammer Weight: N/A
Fall: 30"

609506_HD05(BORINGLOGS).DWG Plotted on 6-Jul-2026 4:30 PM

LOG OF TEST BORING

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal	BORING NO.	B-2
LOCATION	Becket, MA		
OWNER	MassDOT		SHEET 1 OF 1
JOB NUMBER	E2X93632 (Proj File No. 609506)		

INSPECTOR	V. Kulkarni	CONTRACTOR	Seaboard Drilling	DRILLER	Dale G.	ELEVATION	1467.2
METHOD OF DRILLING		GROUNDWATER READINGS		DRILL RIG	D50 ATV	DATUM	NAVD 88
0.0	Wash Boring w/ 4" Casing	DATE/TIME	DEPTH(ft) REMARKS	SPT HAMMER	140 lb Auto	GRID N	2944289.776
2.5	NX Rock Core	04-30-2024 / 7:55 AM	12.1 During Drilling (Casing at 8')			COORD E	2225269.729
13.0	Terminated					DATE START	4/29/24
						DATE END	4/30/24

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
		1 1 16 7	17	S-1	0 - 2	24/11		SAND	S-1A (Top 5"): Moist, loose to medium dense, dark brown, fine SAND, and Silt (Topsoil); S-1B (Bot 5"): Moist, medium dense, light gray to pale yellow, fine SAND, trace Gravel.	
1465		21 26 50/1.5"	100	S-2	2 - 3.13	14/10			S-2A (Top 5"): Moist, very dense, dark brown to reddish brown, fine SAND, some Silt, trace Gravel; S-2B (Bot 5"): Moist, very dense, light brownish gray, fine to coarse SAND and GRAVEL, little Silt	
				C-1	3 - 5.8	34/26		3	C-1: GRANITE GNEISS, dark gray and reddish brown (iron oxide discoloration), fine to medium grained, moderately hard to hard, medium strong, slightly weathered, massive, steeply dipping to vertical foliation, laminated foliation; extremely closely to closely spaced, shallow dipping to vertical joints with iron oxide staining, extremely to moderately fractured. Drilling rates(mins/ft): 6 - 8 - 9/10"	1
	5	RQD=0						BEDROCK		
1460										
		RQD=0		C-1A C-2	8 - 8.5 8.5 - 13.5	6/6 60/58			C-1A: GRANITE GNEISS, dark gray, fine to medium grained, very hard, strong, slightly weathered, massive, moderately dipping foliation, laminated foliation; closely spaced, steeply dipping joints with iron oxide staining, moderately fractured. Drilling Rates (mins/ft) = 6/6" C-2: GRANITE GNEISS, dark gray and red, fine to medium grained, very hard, medium strong to strong, fresh, massive, steeply dipping foliation, laminated foliation; extremely closely to widely spaced, steeply dipping joints with iron oxide staining, moderately soft, weak, moderately weathered, very closely spaced, moderately to vertical iron oxide stained joints at 12.4-13.3 ft, extremely fractured to sound Drilling Rates (mins/ft): 12 - 6 - 6 - 5 - 4 Bottom of Borehole at 13.5 feet.	23
	10	RQD=78								
1455								13.5		45
	15									
1450										
	20									
1445										
	25									
1440										
	30									
1435										
	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Rock coring stopped at 5.8' due to excessive water loss. Core barrel end was damaged and not usable after retracting the core barrel.
2. Rollerbit advancement to 8' and got casing seated at 8'.
3. After coring to 8.5' in C-1A, the casing started spinning, so coring stopped. Removed core barrel and replaced 3" casing with 4" casing and started core run C-2.
4. B-2 was terminated at 13.5' because new core barrel end was damaged and there are possibly broken core barrel end teeth in the hole.
5. Hole backfilled with bentonite chips and cement grout as casing was withdrawn.

Sampler Type: SS
Size: 1-3/8" ID
Automatic Hammer Weight: 140 lb
Safety Hammer Weight: N/A
Donut Hammer Weight: N/A
Fall: 30"

NOTES:
1. FOR LOCATION OF BORINGS, SEE SHEET 5.
2. SEE SHEET 6 FOR ADDITIONAL BORING NOTES.

609506_HD05(BORINGLOGS).DWG Plotted on 6-Jul-2026 4:30 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	8	51
PROJECT FILE NO.	609506		

BORING LOGS
SHEET 3 OF 10

LOG OF TEST BORING

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal	BORING NO.	B-2A(OW)
LOCATION	Becket, MA		
OWNER	MassDOT		SHEET 1 OF 2
JOB NUMBER	E2X93632 (Proj File No. 609506)		

INSPECTOR	V. Kulkarni	CONTRACTOR	Seaboard Drilling	DRILLER	Dale G.	ELEVATION	1466.9
METHOD OF DRILLING		GROUNDWATER READINGS		DRILL RIG	D50 ATV	DATUM	NAVD 88
0.0	Wash Boring w/ 3" Casing	DATE/TIME	DEPTH(ft) REMARKS	SPT HAMMER	140 lb Auto	GRID N	2944292.879
13.0	NX Rock Core	05-02-2024 / 11:30 AM	17.6 Well Reading (2 hrs Stabilization)			COORD E	225265.385
47.0	Terminated	05-03-2024 / 8:05 AM	18.9 Well Reading (22 hrs Stabilization)			DATE START	4/30/24
						DATE END	5/1/24

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
1465								SAND		1
								3		2
	5									
1460										
	10									
1455										3
	15	RQD=22		C-3	13 - 18.25	63/57			C-3: GRANITE GNEISS, dark gray and light red, fine to medium grained, very soft to hard, weak to medium strong, moderately to slightly weathered, massive, moderately dipping foliation, laminated to very thinly laminated; extremely closely to closely spaced, moderately dipping to vertical joints with iron oxide staining, extremely to moderately fractured. Drilling Rates (mins/ft): 5 - 4 - 5 - 5 - 11	
1450										
	20	RQD=96		C-4	18.25 - 23.17	59/59			C-4: GRANITE GNEISS, light to dark gray, fine to medium grained, very hard, strong, slightly weathered, massive, moderately dipping foliation, laminated foliation; closely to widely spaced, moderately to steeply dipping joints with iron oxide staining, moderately fractured to sound. Drilling Rates (mins/ft): 4 - 5 - 5 - 8 - 13	
1445										
	25	RQD=86		C-5	23.17 - 28	58/58		BEDROCK	C-5: GRANITE GNEISS, light to dark gray and black, fine to medium grained, very hard, strong, slightly weathered, massive, moderately soft, weak, moderately weathered at 24.5-24.40 ft, steeply dipping to vertical foliation, laminated to very thinly foliated; closely to moderately spaced, moderately to steeply dipping joints with iron oxide staining, moderately to slightly fractured. Drilling Rates (mins/ft): 3 - 3 - 5 - 5 - 6	
1440										
	30	RQD=100		C-6	28 - 32	48/48			C-6: GRANITE GNEISS, light to dark gray and black, fine to medium grained, very hard, strong, fresh, massive, moderately to steeply dipping foliation, laminated to very thinly foliated; widely spaced, moderately to steeply dipping joints with fresh surfaces, sound. Drilling Rates (mins/ft): 6 - 8 - 11 - 29	
1435										
	35			C-7	32 - 37	60/58			C-7: GRANITE GNEISS, light to dark gray and black, fine to medium grained, very hard, strong, fresh, massive, moderately to steeply dipping foliation, laminated to very thinly foliated; widely spaced, steeply dipping joint with fresh surface, sound. Drilling Rates (mins/ft): 7 - 6 - 9 - 8 - 13	

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Boring B-2A(OW) was relocated about 2.5' west of its original location.
2. Similar to B-2, bedrock was encountered at 3' below ground surface.
3. Advanced roller bit down to 13' and then got casing seated at 13' below ground surface to resume rock coring.

Sampler Type: SS | Size: 1-3/8" ID
Automatic Hammer Weight: 140 lb
Safety Hammer Weight: N/A
Donut Hammer Weight: N/A
Fall: 30"

LOG OF TEST BORING

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal	BORING NO.	B-2A(OW)
LOCATION	Becket, MA		
OWNER	MassDOT		SHEET 2 OF 2
JOB NUMBER	E2X93632 (Proj File No. 609506)		

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
		RQD=97								
1430				C-8	37 - 42	60/60			C-8: GRANITE GNEISS, light to dark gray and black, fine to coarse grained, very hard, strong, fresh, massive, moderately dipping foliation, laminated to very thinly laminated; widely spaced, steeply dipping joint with fresh surface, sound. Drilling Rates (mins/ft): 6 - 6 - 7 - 7 - 8	
	40	RQD=100								
1425				C-9	42 - 47	60/60			C-9: GRANITE GNEISS, light to dark gray, black, and pink, fine to coarse grained, very hard, strong, fresh, massive, moderately to steeply dipping foliation, laminated to very thinly foliated; moderately to widely spaced, moderately to steeply dipping joints with iron oxide staining, extremely closely spaced, steeply dipping to vertical healed and partially open fractured at 45.85-47.00 ft, slightly fractured to sound. Drilling Rates (mins/ft): 7 - 10 - 6 - 9 - 11	
	45	RQD=100								
1420								47	Bottom of Borehole at 47 feet.	4
	50									
1415										
	55									
1410										
	60									
1405										
	65									
1400										
	70									
1395										

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

4. Borehole geophysical logging (OTV/ATV) conducted by HRGS on 05/02/24 and upon completion, monitoring well installed with PVC screen from 12-47 ft depth and PVC riser from 0-12 ft depth.

Sampler Type: SS | Size: 1-3/8" ID
Automatic Hammer Weight: 140 lb
Safety Hammer Weight: N/A
Donut Hammer Weight: N/A
Fall: 30"

NOTES:
1. FOR LOCATION OF BORINGS, SEE SHEET 5.
2. SEE SHEET 6 FOR ADDITIONAL BORING NOTES.

609506_HD05(BORINGLOGS).DWG Plotted on 6-Jul-2026 4:30 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	9	51
PROJECT FILE NO.	609506		

BORING LOGS
SHEET 4 OF 10

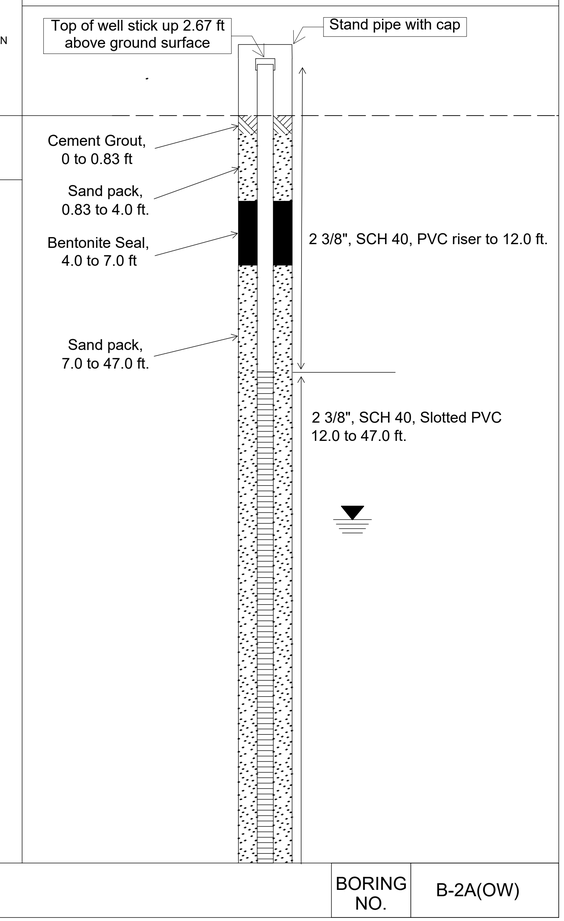
LOG OF MONITORING WELL

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal			BORING NO.	B-2A(OW)
LOCATION	Becket, MA				
OWNER	MassDOT				SHEET 1 OF 2
JOB NUMBER	E2X93632 (Proj File No. 609506)				
INSPECTOR V. Kulkarni	CONTRACTOR	Seaboard Drilling	DRILLER	Dale G.	ELEVATION 1466.9
METHOD OF DRILLING	GROUNDWATER READINGS		DRILL RIG	D50 ATV	DATUM NAVD88
0.0 Wash Boring w/ 3" Casing	DATE/TIME	DEPTH(ft)	REMARKS	SPT HAMMER 140 lb Auto	GRID N 2944292.879
13.0 NX Rock Core	05-02-2024 / 11:30 AM	17.6	Well Reading (2 hrs Stabilization)		COORD E 225265.385
47.0 Terminated	05-03-2024 / 8:05 AM	18.9	Well Reading (22 hrs Stabilization)		DATE START 4/30/24
					DATE END 5/1/24

DEPTH (FEET)	STRATA SYMBOL	ELEVATION (FEET)	MATERIAL DESCRIPTION
			SAND
		1463.9	BEDROCK

WELL DIAGRAM



BORING NO. B-2A(OW)

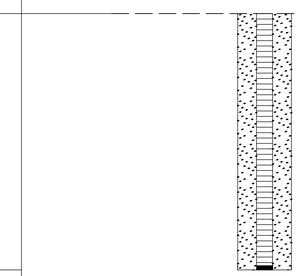
LOG OF MONITORING WELL

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal			BORING NO.	B-2A(OW)
LOCATION	Becket, MA				
OWNER	MassDOT				SHEET 2 OF 2
JOB NUMBER	E2X93632 (Proj File No. 609506)				
INSPECTOR V. Kulkarni	CONTRACTOR	Seaboard Drilling	DRILLER	Dale G.	ELEVATION 1466.9
METHOD OF DRILLING	GROUNDWATER READINGS		DRILL RIG	D50 ATV	DATUM NAVD88
	DATE/TIME	DEPTH(ft)	REMARKS	SPT HAMMER 140 lb Auto	GRID N 2944292.879
					COORD E 225265.385
					DATE START 4/30/24
					DATE END 5/1/24

DEPTH (FEET)	STRATA SYMBOL	ELEVATION (FEET)	MATERIAL DESCRIPTION
		1419.9	

WELL DIAGRAM



BORING NO. B-2A(OW)

609506_HD05(BORINGLOGS).DWG Plotted on 6-Jul-2026 4:30 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	10	51
PROJECT FILE NO.	609506		

BORING LOGS
SHEET 5 OF 10

LOG OF TEST BORING

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal	BORING NO.	B-3		
LOCATION	Becket, MA				
OWNER	MassDOT		SHEET 1 OF 2		
JOB NUMBER	E2X93632 (Proj File No. 609506)				
INSPECTOR: V. Kulkarni	CONTRACTOR: Seaboard Drilling	DRILLER: Dale G.	ELEVATION	1468.1	
METHOD OF DRILLING	GROUNDWATER READINGS	DRILL RIG: D50 ATV	DATUM	NAVD 88	
0.0 Wash Boring w/ 3" Casing	DATE/TIME / DEPTH(ft) / REMARKS	SPT HAMMER: 140 lb Auto	GRID	N	2944363.557
7.5 NX Rock Core	04-25-2024 / 8:05 AM / 28.8 / During Drilling (Casing at 19 ft)		COORD	E	225286.276
45.0 Terminated	04-26-2024 / 8:30 AM / 26.0 / During Drilling (Casing at 40 ft)		DATE START	4/24/24	
			DATE END	4/25/24	

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
		1 1 3 6	4	S-1	0 - 2	24/23		SAND	S-1A (Top 21"): Moist, very loose, olive brown, fine to coarse SAND, some fine Gravel, some Silt; S-1B (Bot 3"): Moist, very dense, brown, fine to coarse SAND and GRAVEL, trace Silt.	
1465		12 50/4"	50/4"	S-2	2 - 2.8	10/5		SAND	S-2: Moist, very dense, yellow brown to gray brown, fine to coarse SAND and GRAVEL	
	5							W.R.	Rollerbit through the weathered rock down to 7.5 ft and then advanced casing to 7.5 ft to start coring	
1460				C-1	7.5 - 12.5	60/54		BEDROCK	C-1: GRANITE GNEISS, light to dark gray, black, and reddish brown (iron oxide staining), fine to medium grained, moderately soft to very hard, weak to strong, moderately to slightly weathered, massive, moderately dipping to vertical foliation, laminated to very thinly foliated; extremely closely to moderately spaced, moderately dipping to vertical joints with iron oxide staining, extremely to very closely spaced open, steeply dipping to vertical open fractured with iron oxide staining, extremely to moderately fractured. Drilling Rates (mins/ft): 3 - 3 - 4 - 3 - 8	1
	10	RQD=65								
1455		RQD=83		C-1A	12.5 - 13	6/5			C-1A: GRANITE GNEISS, light to dark gray and black, fine to medium grained, hard, strong, fresh, moderately dipping foliation, laminated foliation; closely spaced, moderately dipping joints with iron oxide staining, moderately fractured. Drilling Rates (mins/ft): 5/6"	2
	15			C-2	14 - 19	60/33			C-2: GRANITE GNEISS, light to dark gray, black, and reddish brown (iron oxide staining), fine to medium grained, moderately soft to hard, weak to strong, moderately to slightly weathered, massive, moderately dipping foliation; extremely closely to closely spaced, moderately dipping to vertical joints with iron oxide staining and disintegrated rock to 5 mm thick, extremely to moderately fractured. Drilling Rates (mins/ft): 0 - 0 - 2 - 4 - 11	3
		RQD=8								
1450										4
	20			C-3	20 - 25	60/44			C-3: GRANITE GNEISS, light to dark gray, black and reddish brown (iron oxide staining), fine to medium grained, hard to very hard, medium strong to strong, slightly weathered, massive, steeply dipping to vertical foliation, laminated foliation; very closely to moderately spaced, moderately dipping to vertical joints with iron oxide staining, very closely spaced, steeply dipping to vertical open fractures, extremely to slightly fractured. Drilling Rates (mins/ft): 0 - 2 - 4 - 4 - 4	5
1445		RQD=60								
	25									
1440										
	30									6
1435										
	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Advanced casing to 9' due to fractured rock caving into the hole.
2. Core barrel jammed at 13' and then core barrel removed.
3. Probable washout from 13' to 14'. Core C-2 started at 14'.
4. Advanced casing to 19' after core C-2 completed due to fractured bedrock collapsing into hole.
5. Probable washout from 19' to 20'. Core C-3 started at 20'.
6. Apparent vertical joint in bedrock may have been washed out from 25' to 35' in previous day. Coring had stopped at a depth of 25' previous day but bottom of hole was open to about 35' following morning.

Sampler Type: SS | Size: 1-3/8" ID
Automatic Hammer Weight: 140 lb
Safety Hammer Weight: N/A
Donut Hammer Weight: N/A
Fall: 30"

LOG OF TEST BORING

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal	BORING NO.	B-3
LOCATION	Becket, MA		
OWNER	MassDOT		SHEET 2 OF 2
JOB NUMBER	E2X93632 (Proj File No. 609506)		

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
				C-4	35 - 40	60/15.5			C-4: GRANITE GNEISS, light to dark gray and black, fine to medium grained, hard, strong, slightly weathered, massive, moderately dipping foliation, laminated foliation; extremely closely spaced, steeply dipping to vertical epidote veining to 5 mm, mechanical breaks at top of bottom of 15.5" long rock stem, slightly fractured. Drilling Rates (mins/ft): 0 - 0.5 - 0.5 - 3 - 9	
1430		RQD=26								
	40			C-5	40 - 45	60/53			C-5: GRANITE GNEISS, light to dark gray and black, fine to medium grained, very hard, strong, fresh, massive, moderately dipping foliation, laminated to very thinly bedded; moderately to widely spaced, moderately to steeply dipping joints with fresh surfaces, moderately fractured to sound. Drilling Rates (mins/ft): 6 - 10 - 14 - 21 - 15	7
1425		RQD=82								
	45						45		Bottom of Borehole at 45 feet.	8
1420										
	50									
1415										
	55									
1410										
	60									
1405										
	65									
1400										
	70									
1395										

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

7. Advanced casing to 40' due to possible weak soils caving.
8. Borehole geophysical logging (OTV/ATV) conducted by HRGS on 04/26/24 and upon completion, hole backfilled with bentonite chips and cement grout as casing was withdrawn.

Sampler Type: SS | Size: 1-3/8" ID
Automatic Hammer Weight: 140 lb
Safety Hammer Weight: N/A
Donut Hammer Weight: N/A
Fall: 30"

NOTES:
1. FOR LOCATION OF BORINGS, SEE SHEET 5.
2. SEE SHEET 6 FOR ADDITIONAL BORING NOTES.

609506_HD05(BORINGLOGS).DWG Plotted on 6-Jul-2026 4:30 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	11	51
PROJECT FILE NO.	609506		

BORING LOGS
SHEET 6 OF 10

LOG OF TEST BORING

SCALE 1" = 5'

		PROJECT	Becket - Rock Slope Removal	BORING NO.	P-1
		LOCATION	Becket, MA		
		OWNER	MassDOT		SHEET 1 OF 1
		JOB NUMBER	E2X93632 (Proj File No. 609506)		
INSPECTOR	V. Kulkarni	CONTRACTOR	Seaboard Drilling	DRILLER	Dale G.
METHOD OF DRILLING		GROUNDWATER READINGS		DRILL RIG	D50 ATV
0.0	2.5" Solid Stem Auger	DATE/TIME	DEPTH(ft) REMARKS	SPT HAMMER	140 lb Auto
2.0	Terminated				

ELEVATION		1465.5
DATUM		NAVD 88
GRID	N	2944232.08
COORD	E	225266.206
DATE START		5/3/24
DATE END		5/3/24

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
1465								1	0-1': Moist, reddish brown, SAND and SILT with Gravel, grinding sound	1
								2	1-2': Probable weathered rock, strong grinding sound Bottom of Borehole at 2 feet.	2
1460	5									
1455	10									
1450	15									
1445	20									
1440	25									
1435	30									
	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Probe boring; no sampling; descriptions based on drilling operations and drill cuttings from auger.
2. End of boring at 2' bgs, probable competent bedrock.

LOG OF TEST BORING

SCALE 1" = 5'

		PROJECT	Becket - Rock Slope Removal	BORING NO.	P-2
		LOCATION	Becket, MA		
		OWNER	MassDOT		SHEET 1 OF 1
		JOB NUMBER	E2X93632 (Proj File No. 609506)		
INSPECTOR	V. Kulkarni	CONTRACTOR	Seaboard Drilling	DRILLER	Dale G.
METHOD OF DRILLING		GROUNDWATER READINGS		DRILL RIG	D50 ATV
0.0	2.5" Solid Stem Auger	DATE/TIME	DEPTH(ft) REMARKS	SPT HAMMER	140 lb Auto
4.8	Terminated				

ELEVATION		1465.5
DATUM		NAVD 88
GRID	N	2944244.006
COORD	E	225267.531
DATE START		5/3/24
DATE END		5/3/24

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
1465								SAND	0-1': Moist to wet, dark reddish and yellowish brown, SAND, and Silt 1-2': More grinding sound, gravel in cuttings, auger bit advancement rate = ~1min/ft, 2-4': Wet, yellow brown, SAND, and Silt, little fine to coarse Gravel, steady grinding sound continues, auger bit advancement rate = ~4min/ft	1
								4.75	4-4.75': Probable weathered rock, auger bit advancement rate = 3-4 min/ft Bottom of Borehole at 4.75 feet.	2
1460	5									
1455	10									
1450	15									
1445	20									
1440	25									
1435	30									
	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Probe boring; no sampling; descriptions based on drilling operations and drill cuttings from auger.
2. End of boring at 4.75' bgs - probable competent bedrock.

NOTES:
1. FOR LOCATION OF BORINGS, SEE SHEET 5.
2. SEE SHEET 6 FOR ADDITIONAL BORING NOTES.

609506_HD05(BORINGLOGS).DWG Plotted on 6-Jul-2026 4:30 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	12	51
PROJECT FILE NO.	609506		

BORING LOGS
SHEET 7 OF 10

LOG OF TEST BORING

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal	BORING NO.	P-3		
LOCATION	Becket, MA				
OWNER	MassDOT				
JOB NUMBER	E2X93632 (Proj File No. 609506)		SHEET 1 OF 1		
INSPECTOR: V. Kulkarni	CONTRACTOR: Seaboard Drilling	DRILLER: Dale G.	ELEVATION	1466.0	
METHOD OF DRILLING	GROUNDWATER READINGS	DRILL RIG: D50 ATV	DATUM	NAVD 88	
0.0 2.5" Solid Stem Auger	DATE/TIME / DEPTH(ft) / REMARKS	SPT HAMMER: 140 lb Auto	GRID N	2944255.89	
2.3 Terminated			COORD E	225269.182	
			DATE START	5/3/24	
			DATE END	5/3/24	

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
1465								~SAND	0-2': Moist to wet, reddish brown and pale yellow brown, fine to coarse SAND, grinding sound	1
								2.25	2-2.25': Probable weathered rock, strong grinding sound Bottom of Borehole at 2.25 feet.	2
1460	5									
1455	10									
1450	15									
1445	20									
1440	25									
1435	30									
	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Probe boring; no sampling; descriptions based on drilling operations and drill cuttings from auger.
2. End of boring at 2'- 3" bgs, probable competent bedrock.

LOG OF TEST BORING

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal	BORING NO.	P-4		
LOCATION	Becket, MA				
OWNER	MassDOT				
JOB NUMBER	E2X93632 (Proj File No. 609506)		SHEET 1 OF 1		
INSPECTOR: V. Kulkarni	CONTRACTOR: Seaboard Drilling	DRILLER: Dale G.	ELEVATION	1467.0	
METHOD OF DRILLING	GROUNDWATER READINGS	DRILL RIG: D50 ATV	DATUM	NAVD 88	
0.0 2.5" Solid Stem Auger	DATE/TIME / DEPTH(ft) / REMARKS	SPT HAMMER: 140 lb Auto	GRID N	2944267.732	
2.5 Terminated			COORD E	225270.873	
			DATE START	5/3/24	
			DATE END	5/3/24	

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
1465								~SAND	0-2': Moist, dark reddish brown, SAND, and Silt, grinding sound (Topsoil).	1
								2.5	2-2.5': Probable weathered rock, strong grinding sound. Bottom of Borehole at 2.5 feet.	2
1460	5									
1455	10									
1450	15									
1445	20									
1440	25									
1435	30									
	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Probe boring; no sampling; descriptions based on drilling operations and drill cuttings from auger.
2. End of boring at 2.5' bgs, probable competent bedrock.

NOTES:
1. FOR LOCATION OF BORINGS, SEE SHEET 5.
2. SEE SHEET 6 FOR ADDITIONAL BORING NOTES.

609506_HD05(BORINGLOGS).DWG Plotted on 6-Jul-2026 4:30 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	13	51
PROJECT FILE NO.	609506		

BORING LOGS
SHEET 8 OF 10

LOG OF TEST BORING

SCALE 1" = 5'

		PROJECT	Becket - Rock Slope Removal	BORING NO.	P-5
		LOCATION	Becket, MA		
		OWNER	MassDOT		
		JOB NUMBER	E2X93632 (Proj File No. 609506)		SHEET 1 OF 1
INSPECTOR	V. Kulkarni	CONTRACTOR	Seaboard Drilling	DRILLER	Dale G.
METHOD OF DRILLING		GROUNDWATER READINGS		DRILL RIG	D50 ATV
0.0	2.5" Solid Stem Auger	DATE/TIME	DEPTH(ft) REMARKS	SPT HAMMER	140 lb Auto
2.0	Terminated				

ELEVATION		1467.3
DATUM		NAVD 88
GRID	N	2944279.752
COORD	E	225272.5
DATE START		5/3/24
DATE END		5/3/24

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
								SAND	0-1.5': Moist, dark brown, SAND, and Silt	1
1465								2	1.5'-2': Probable weathered rock, strong grinding sound. Bottom of Borehole at 2 feet.	2
	5									
1460										
	10									
1455										
	15									
1450										
	20									
1445										
	25									
1440										
	30									
1435										
	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Probe boring; no sampling; descriptions based on drilling operations and drill cuttings from auger.
2. End of boring at 2' bgs - probable competent bedrock.

LOG OF TEST BORING

SCALE 1" = 5'

		PROJECT	Becket - Rock Slope Removal	BORING NO.	P-6
		LOCATION	Becket, MA		
		OWNER	MassDOT		
		JOB NUMBER	E2X93632 (Proj File No. 609506)		SHEET 1 OF 1
INSPECTOR	V. Kulkarni	CONTRACTOR	Seaboard Drilling	DRILLER	Dale G.
METHOD OF DRILLING		GROUNDWATER READINGS		DRILL RIG	D50 ATV
0.0	2.5" Solid Stem Auger	DATE/TIME	DEPTH(ft) REMARKS	SPT HAMMER	140 lb Auto
3.5	Terminated				

ELEVATION		1469.0
DATUM		NAVD 88
GRID	N	2944306.828
COORD	E	225273.489
DATE START		5/3/24
DATE END		5/3/24

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
								SAND	0-2': Moist, dark brown, SAND, and Silt	1
								3	2-3': Moist, yellow brown to gray, fine SAND, trace to little Gravel, auger bit advancement rate = ~1.0 - 1.5 min/ft.	
1465								3.5	3-3.5': Probable weathered rock, strong grinding sound. Bottom of Borehole at 3.5 feet.	2
	5									
1460										
	10									
1455										
	15									
1450										
	20									
1445										
	25									
1440										
	30									
1435										
	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Probe boring; no sampling; descriptions based on drilling operations and drill cuttings from auger.
2. End of boring at 3.5 bgs, probable competent bedrock

NOTES:
1. FOR LOCATION OF BORINGS, SEE SHEET 5.
2. SEE SHEET 6 FOR ADDITIONAL BORING NOTES.

609506_HD05(BORINGLOGS).DWG Plotted on 6-Jul-2026 4:30 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	14	51
PROJECT FILE NO.	609506		

BORING LOGS
SHEET 9 OF 10

LOG OF TEST BORING

SCALE 1" = 5'

		PROJECT	Becket - Rock Slope Removal	BORING NO.	P-7
		LOCATION	Becket, MA		
		OWNER	MassDOT		SHEET 1 OF 1
		JOB NUMBER	E2X93632 (Proj File No. 609506)		
INSPECTOR	V. Kulkarni	CONTRACTOR	Seaboard Drilling	DRILLER	Dale G.
METHOD OF DRILLING		GROUNDWATER READINGS		DRILL RIG	D50 ATV
0.0	2.5" Solid Stem Auger	DATE/TIME	DEPTH(ft) REMARKS	SPT HAMMER	140 lb Auto
1.0	Terminated				

ELEVATION		1468.4
DATUM		NAVD 88
GRID	N	2944318.813
COORD	E	225274.086
DATE START		5/3/24
DATE END		5/3/24

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
								0.5	0-0.5': Moist, dark reddish brown, SAND, and Silt	1
								1	0.5-1': Probable Weathered rock, strong grinding sound Bottom of Borehole at 1 feet.	2
1465	5									
1460	10									
1455	15									
1450	20									
1445	25									
1440	30									
1435	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Probe boring; no sampling; descriptions based on drilling operations and drill cuttings from auger.
2. End of boring at 1' bgs, probable competent bedrock.

LOG OF TEST BORING

SCALE 1" = 5'

		PROJECT	Becket - Rock Slope Removal	BORING NO.	P-8
		LOCATION	Becket, MA		
		OWNER	MassDOT		SHEET 1 OF 1
		JOB NUMBER	E2X93632 (Proj File No. 609506)		
INSPECTOR	V. Kulkarni	CONTRACTOR	Seaboard Drilling	DRILLER	Dale G.
METHOD OF DRILLING		GROUNDWATER READINGS		DRILL RIG	D50 ATV
0.0	2.5" Solid Stem Auger	DATE/TIME	DEPTH(ft) REMARKS	SPT HAMMER	140 lb Auto
3.3	Terminated				

ELEVATION		1468.5
DATUM		NAVD 88
GRID	N	2944330.918
COORD	E	225274.688
DATE START		5/2/24
DATE END		5/2/24

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
								SAND	0-3': Moist to wet, dark brown, SAND, and Silt	1
								3 3.25	3-3.25': Probable weathered rock, strong grinding sound Bottom of Borehole at 3.25 feet.	2
1465	5									
1460	10									
1455	15									
1450	20									
1445	25									
1440	30									
1435	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Cuttings not coming up to surface (0-2'), getting squeezed into mulch/organics.
2. End of boring at 3.25' bgs, probable competent bedrock.

NOTES:
1. FOR LOCATION OF BORINGS, SEE SHEET 5.
2. SEE SHEET 6 FOR ADDITIONAL BORING NOTES.

609506_HD05(BORINGLOGS).DWG Plotted on 6-Jul-2026 4:30 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	15	51
PROJECT FILE NO.	609506		

BORING LOGS
SHEET 10 OF 10

LOG OF TEST BORING

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal	BORING NO.	P-9		
LOCATION	Becket, MA		SHEET 1 OF 1		
OWNER	MassDOT				
JOB NUMBER	E2X93632 (Proj File No. 609506)				
INSPECTOR: V. Kulkarni	CONTRACTOR: Seaboard Drilling	DRILLER: Dale G.	ELEVATION	1468.3	
METHOD OF DRILLING	GROUNDWATER READINGS	DRILL RIG: D50 ATV	DATUM	NAVD 88	
0.0 2.5" Solid Stem Auger	DATE/TIME / DEPTH(ft) / REMARKS	SPT HAMMER: 140 lb Auto	GRID N	2944342.783	
5.0 Terminated			COORD E	225275.302	
			DATE START	5/2/24	
			DATE END	5/2/24	

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
								SAND	0-4': Moist to wet, dark reddish brown, SAND, and Silt	1
1465										
								WR	4-5': Probable weathered rock, strong grinding sound.	2
	5								Bottom of Borehole at 5 feet.	
1460										
	10									
1455										
	15									
1450										
	20									
1445										
	25									
1440										
	30									
1435										
	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Probe boring; no sampling; descriptions based on drilling operations and drill cuttings from auger.
2. End of boring at 5' bgs, probable competent bedrock.

LOG OF TEST BORING

SCALE 1" = 5'

PROJECT	Becket - Rock Slope Removal	BORING NO.	P-10		
LOCATION	Becket, MA		SHEET 1 OF 1		
OWNER	MassDOT				
JOB NUMBER	E2X93632 (Proj File No. 609506)				
INSPECTOR: V. Kulkarni	CONTRACTOR: Seaboard Drilling	DRILLER: Dale G.	ELEVATION	1466.8	
METHOD OF DRILLING	GROUNDWATER READINGS	DRILL RIG: D50 ATV	DATUM	NAVD 88	
0.0 2.5" Solid Stem Auger	DATE/TIME / DEPTH(ft) / REMARKS	SPT HAMMER: 140 lb Auto	GRID N	2944355.008	
3.0 Terminated			COORD E	225275.888	
			DATE START	5/2/24	
			DATE END	5/2/24	

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	PID (ppm)	LAYER NAME	SOIL AND ROCK DESCRIPTION	NOTES
								SAND	0-2': Moist to wet, dark brown, SILT and SAND, decomposed leaves, roots, mulch.	1
1465										
								2.5	2-2.5': Dark brown, SILT and SAND.	
								3	2.5-3': Observed dark gray Weathered Rock pieces, strong grinding sound	2
	5								Bottom of Borehole at 3 feet.	
1460										
	10									
1455										
	15									
1450										
	20									
1445										
	25									
1440										
	30									
1435										
	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Probe boring; no sampling; descriptions based on drilling operations and drill cuttings from auger.
2. End of boring at 3' bgs, probable competent bedrock.

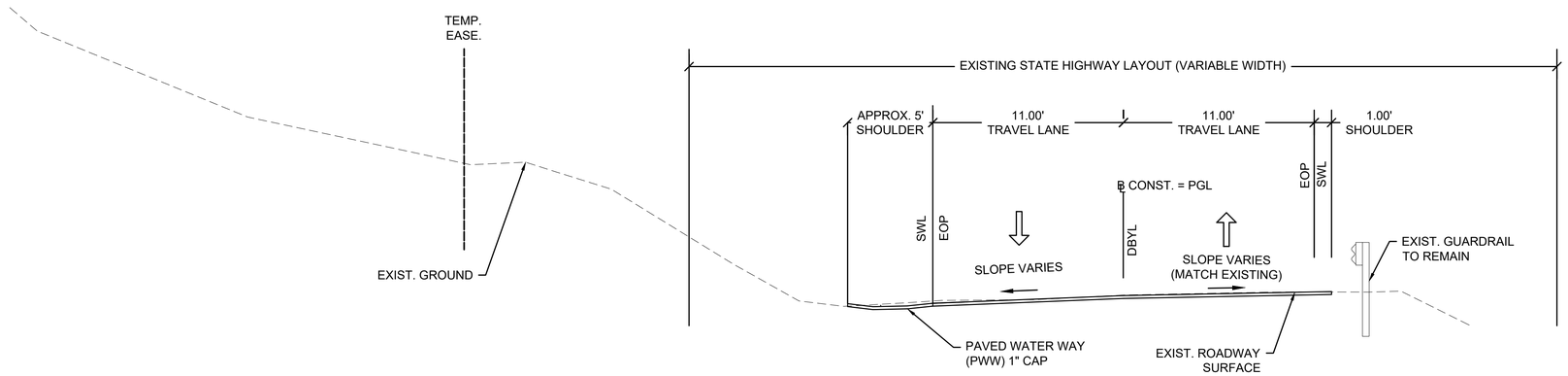
NOTES:
1. FOR LOCATION OF BORINGS, SEE SHEET 5.
2. SEE SHEET 6 FOR ADDITIONAL BORING NOTES.

609506_HD05(BORINGLOGS).DWG Plotted on 6-Jul-2026 4:30 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	16	51
PROJECT FILE NO.	609506		

TYPICAL SECTIONS



EXIST. TYPICAL SECTION ROUTE 8
SCALE: NTS

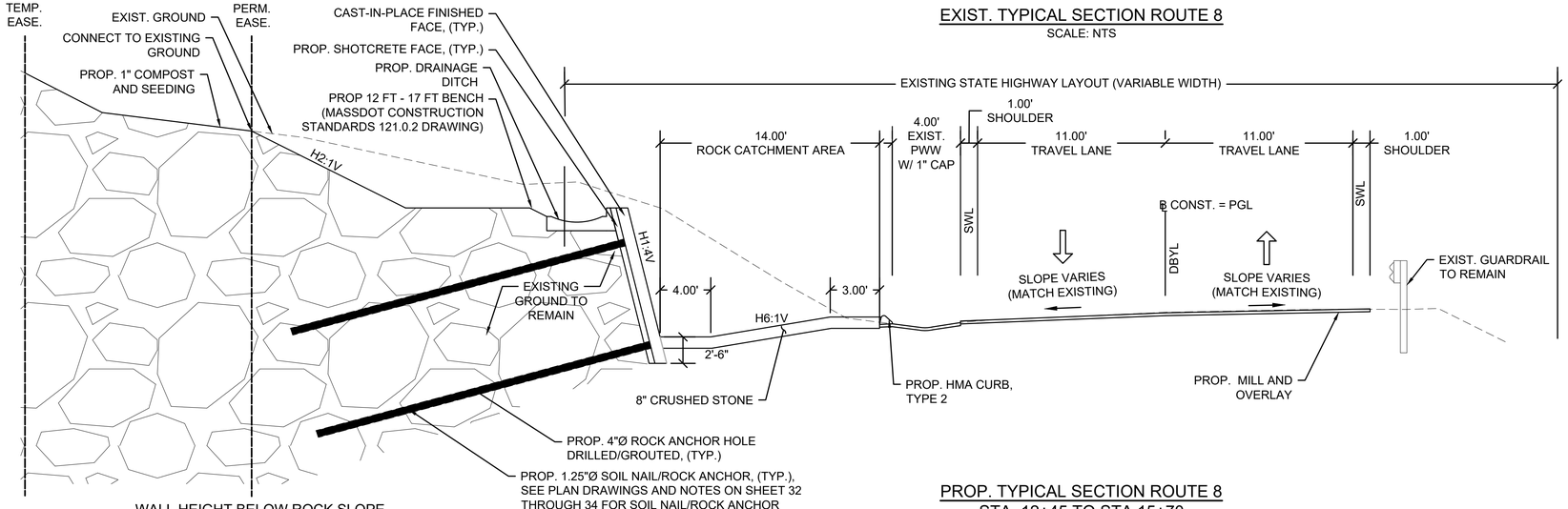
MILL AND OVERLAY PAVEMENT CONSTRUCTION

SURFACE COURSE: 1.75" SUPERPAVE SURFACE COURSE 9.5 POLYMER (SSC-9.5-P)

SURFACE PREPARATION: 1.75" PAVEMENT FINE MILL

ROCK CATCHMENT AREA

SURFACE COURSE: 8" CRUSHED STONE



WALL HEIGHT BELOW ROCK SLOPE

PROP. TYPICAL SECTION ROUTE 8
STA. 12+45 TO STA.15+70
SCALE: NTS

NOTES:

1. HMA, HMA FOR PATCHING, ASPHALT EMULSION FOR TACK COAT HMA JOINT ADHESIVE, AND PAVEMENT MILLING SHALL BE IN ACCORDANCE WITH SECTION 450 QUALITY ASSURANCE OF HMA SPECIFICATION.
2. ASPHALT EMULSION FOR TACK COAT (RS-1H) SHALL BE APPLIED AT THE RATE OF 0.06 TO 0.08 GALLONS PER SQUARE YARD OVER NEW HMA SURFACES NOT OPENED TO TRAFFIC AS WELL AS OVER EXISTING TIGHT SMOOTH PAVEMENT. ON MILLED SURFACES, THE EMULSION APPLICATION RATE SHALL EQUAL 0.07 TO 0.09 GALLONS PER SQUARE YARD. ON NEW HMA PATCHES, THE EMULSION APPLICATION RATE SHALL EQUAL 0.06 TO 0.09 GALLONS PER SQUARE YARD.
3. CONTRACTOR TO MATCH EXISTING ROADWAY CROSS SLOPE WITHIN LIMITS OF MILL AND OVERLAY.
4. ROCK EXCAVATION AND BLASTING OPERATIONS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 120.62, CLASS A ROCK EXCAVATION AND SECTION 120.63, PRESPLITTING ROCK, OF THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PRESPLITTING SHALL BE PERFORMED TO PRODUCE A UNIFORM, STABLE ROCK FACE AND TO PREVENT FRACTURING OR OVERBREAK BEYOND THE DESIGN SLOPE LINE.
5. BLASTING METHODS SHALL BE CONTROLLED SUCH THAT ROCK EXCAVATION DOES NOT EXTEND MORE THAN 24 INCHES BEYOND AND PARALLEL TO THE DESIGN FINISH GRADE SLOPE LINES SHOWN ON THE PLANS OR AS ORDERED IN WRITING BY THE ENGINEER, IN ACCORDANCE WITH SECTION 120.80. ROCK EXCAVATION EXTENDING BEYOND THESE LIMITS SHALL BE CONSIDERED OVERBLAST RESULTING FROM THE CONTRACTOR'S BLASTING OPERATIONS AND SHALL NOT BE PAID FOR.
6. REFER TO SHEET 32 TO 34 FOR SOIL NAIL/ROCK ANCHOR WALL DETAILS AND REQUIREMENTS.

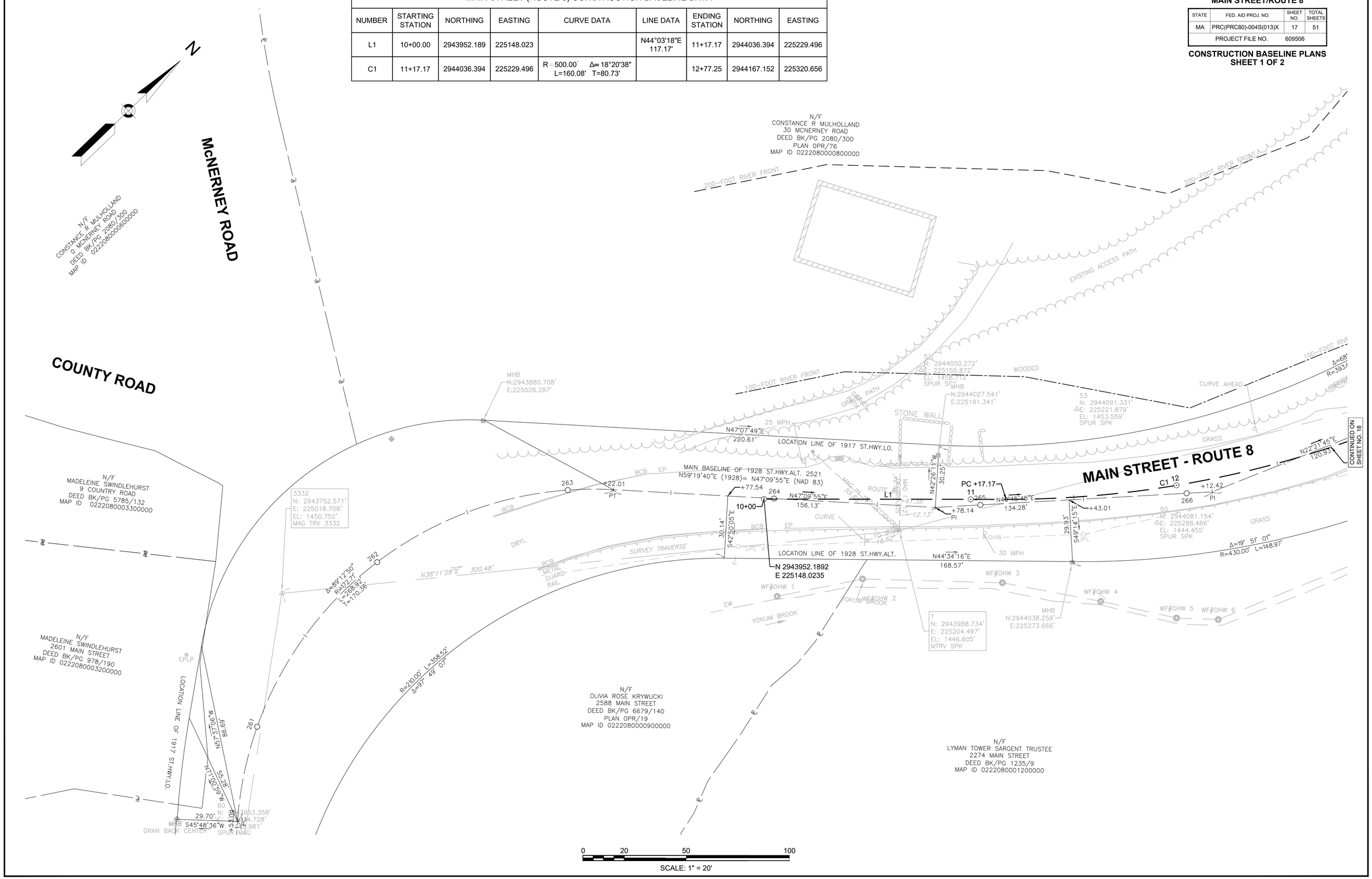
609506_HD(TYP SECTIONS).DWG Plotted on 6-Jul-2026 4:31 PM

MAIN STREET (ROUTE 8) CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	10+00.00	2943952.189	225148.023		N44°03'18"E 117.17'	11+17.17	2944036.394	225229.496
C1	11+17.17	2944036.394	225229.496	R=500.00' Δ=18°20'38" L=160.08' T=80.73'		12+77.25	2944167.152	225320.656

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	17	51
PROJECT FILE NO. 609506			

CONSTRUCTION BASELINE PLANS
SHEET 1 OF 2



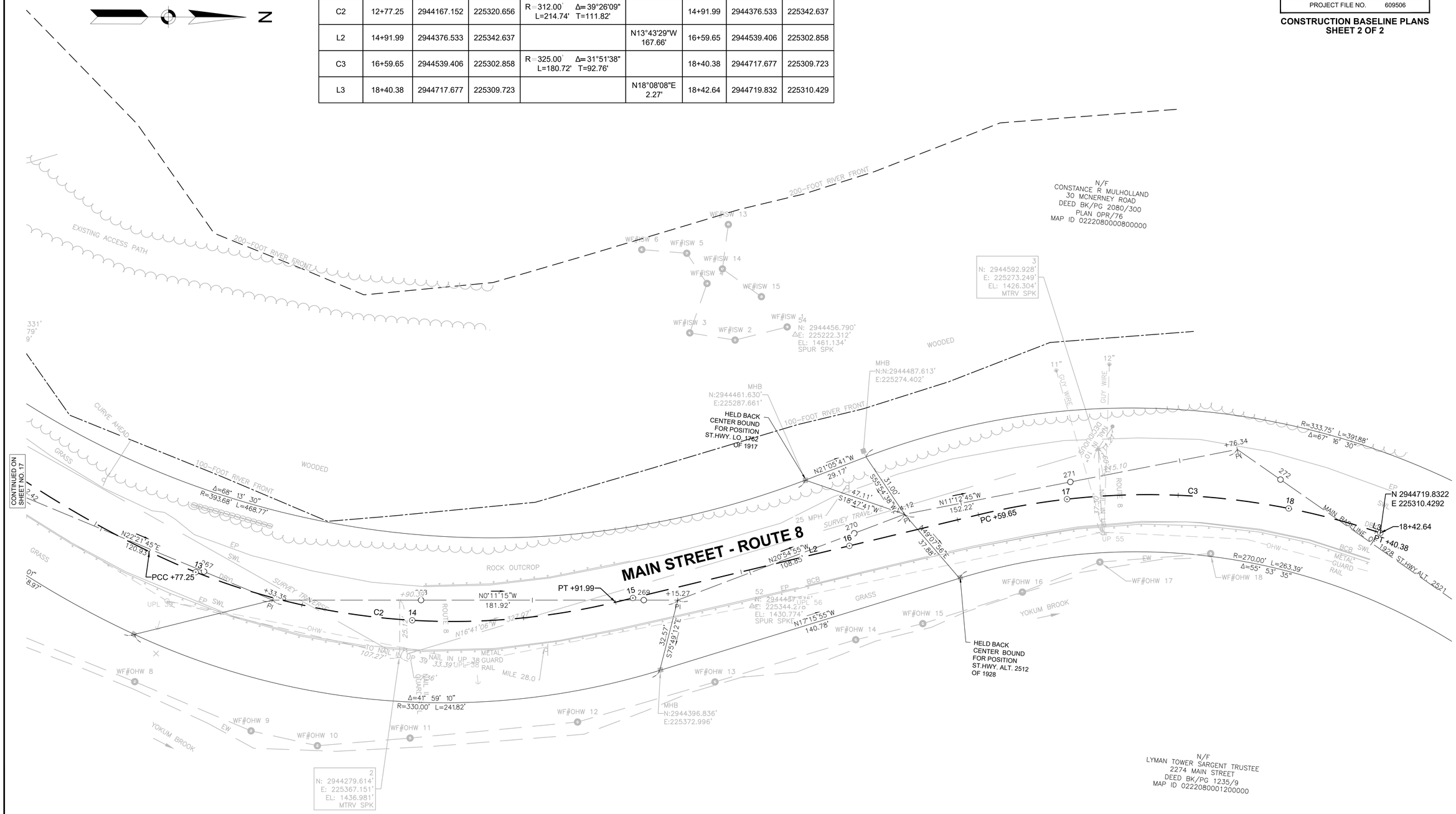
609506_HD(CONSTRUCTION TIES).DWG Plotted on 6-Jul-2026 4:35 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	18	51
PROJECT FILE NO.	609506		

CONSTRUCTION BASELINE PLANS
SHEET 2 OF 2

MAIN STREET (ROUTE 8) CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C2	12+77.25	2944167.152	225320.656	R=312.00' Δ=39°26'09" L=214.74' T=111.82'		14+91.99	2944376.533	225342.637
L2	14+91.99	2944376.533	225342.637		N13°43'29"W 167.66'	16+59.65	2944539.406	225302.858
C3	16+59.65	2944539.406	225302.858	R=325.00' Δ=31°51'38" L=180.72' T=92.76'		18+40.38	2944717.677	225309.723
L3	18+40.38	2944717.677	225309.723		N18°08'08"E 2.27'	18+42.64	2944719.832	225310.429

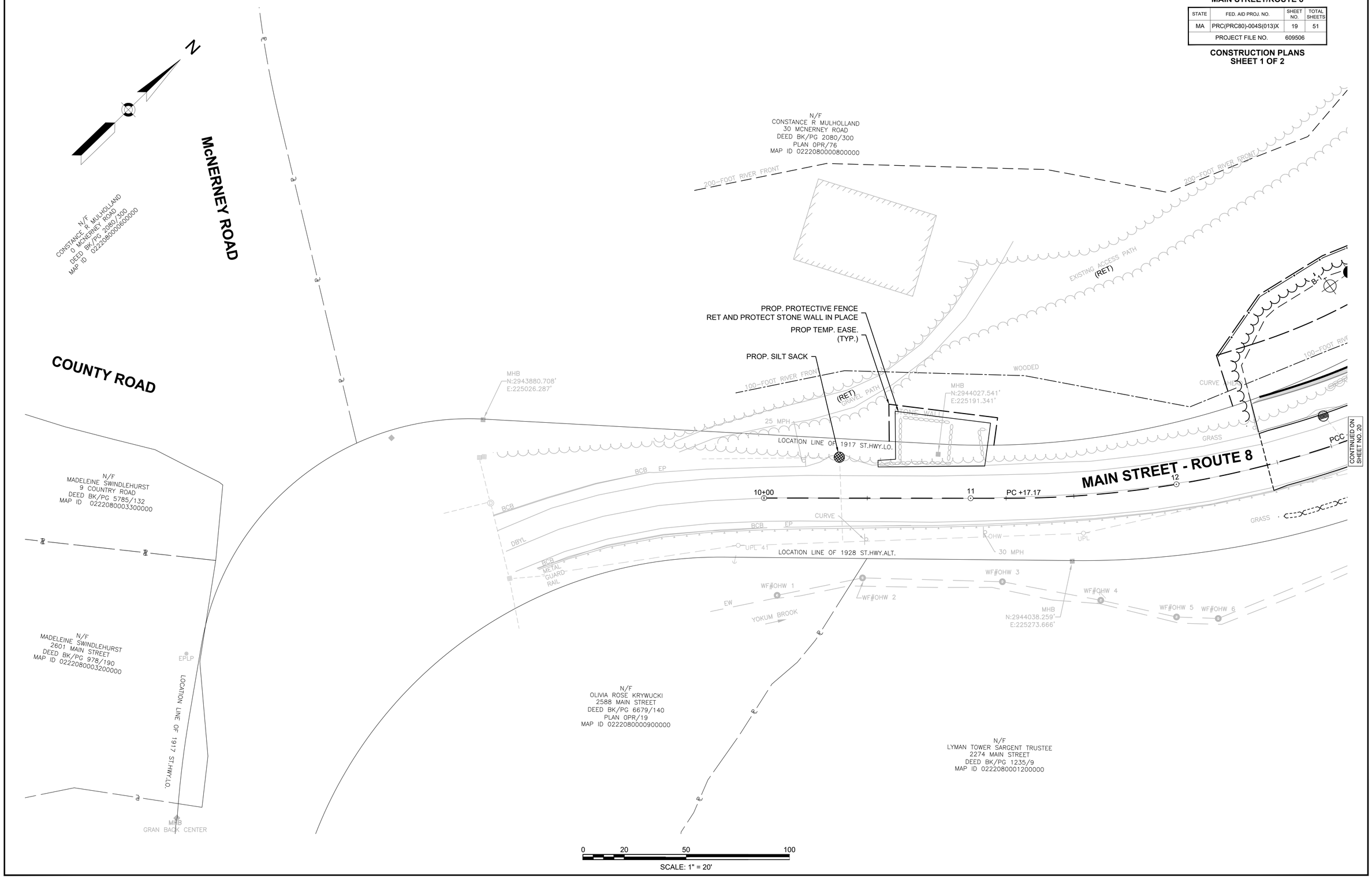


609506_HD(CONSTRUCTION TIES).DWG Plotted on 6-Jul-2026 4:35 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	19	51
PROJECT FILE NO.	609506		

CONSTRUCTION PLANS
SHEET 1 OF 2

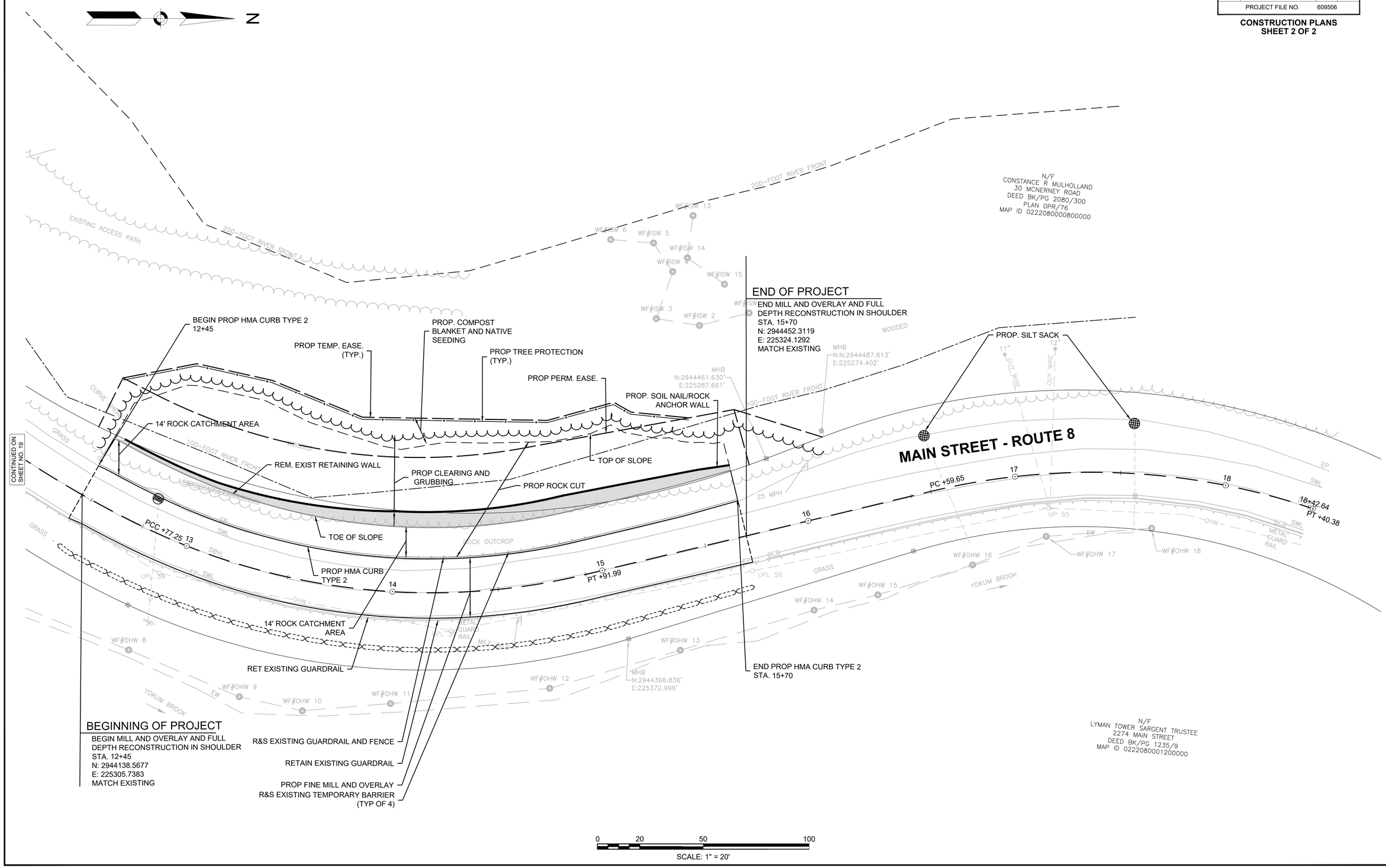


609506_HD(CONSTRUCTION).DWG Plotted on 6-Jul-2026 4:37 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	20	51
PROJECT FILE NO.	609506		

CONSTRUCTION PLANS
SHEET 2 OF 2

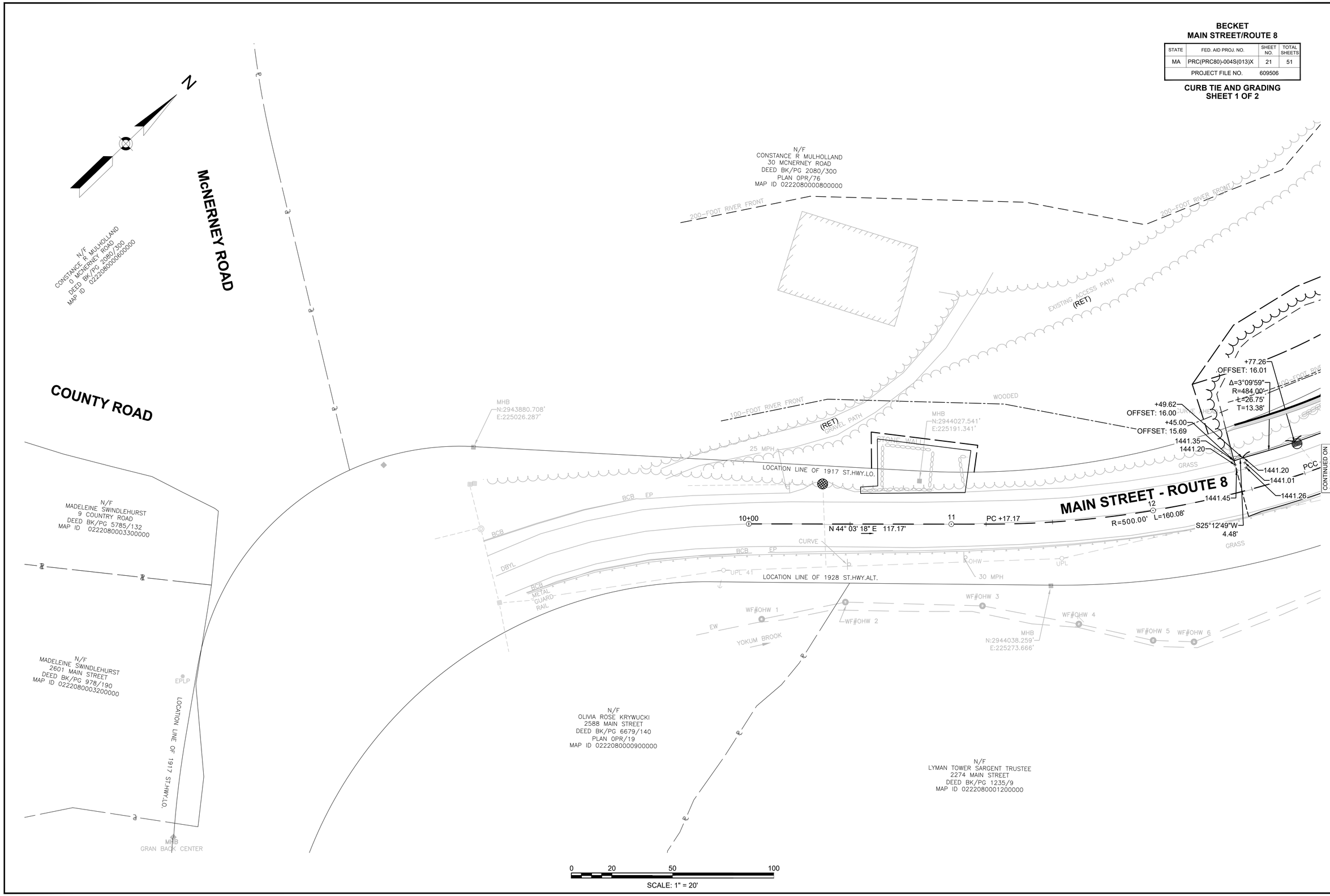


609506_HD(CONSTRUCTION).DWG Plotted on 6-Jul-2026 4:37 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	21	51
PROJECT FILE NO.	609506		

CURB TIE AND GRADING
SHEET 1 OF 2

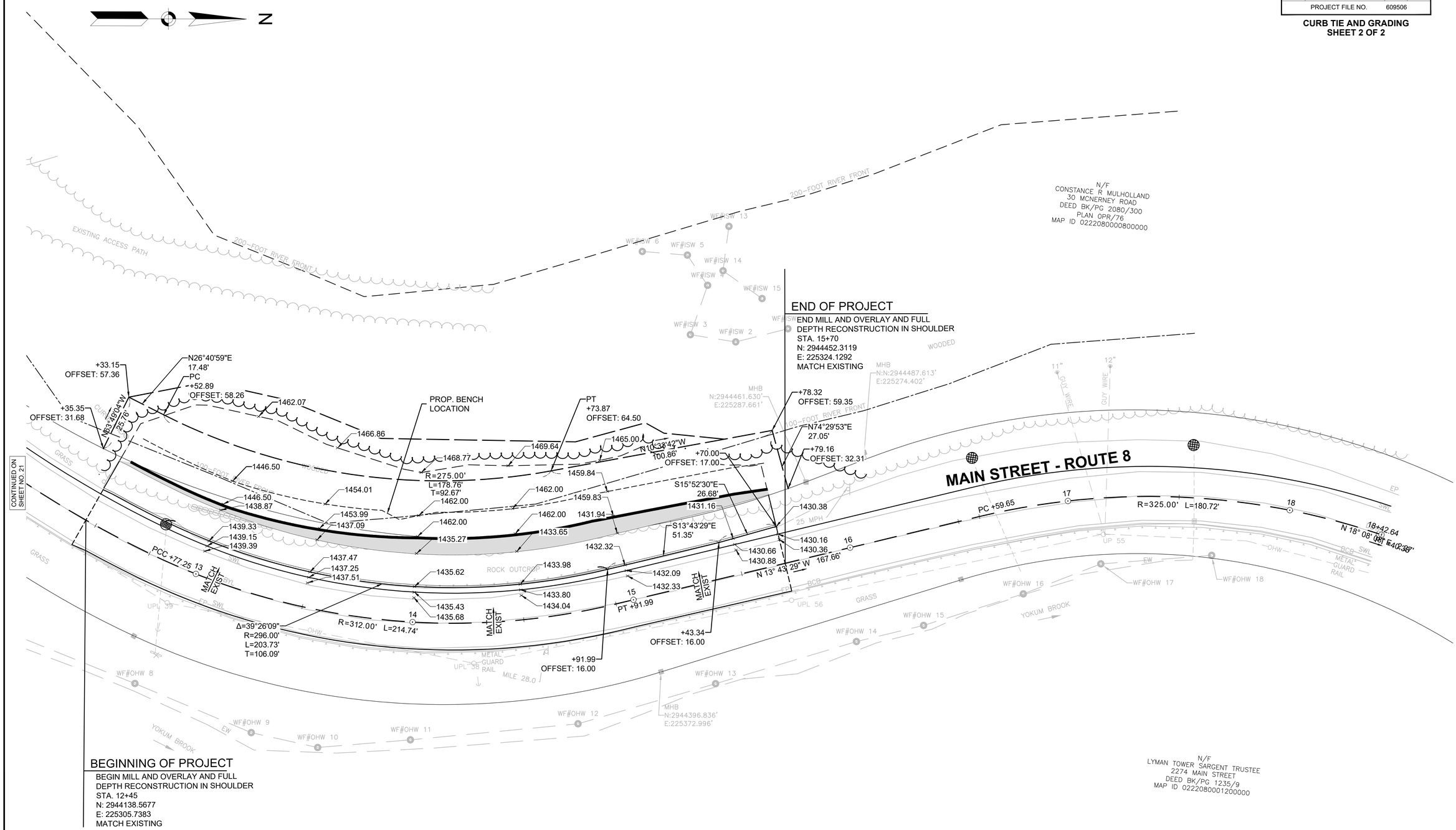


609506_HD(CURB TIE AND GRADING).DWG Plotted on 6-Jul-2026 4:39 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	22	51
PROJECT FILE NO.	609506		

CURB TIE AND GRADING
SHEET 2 OF 2

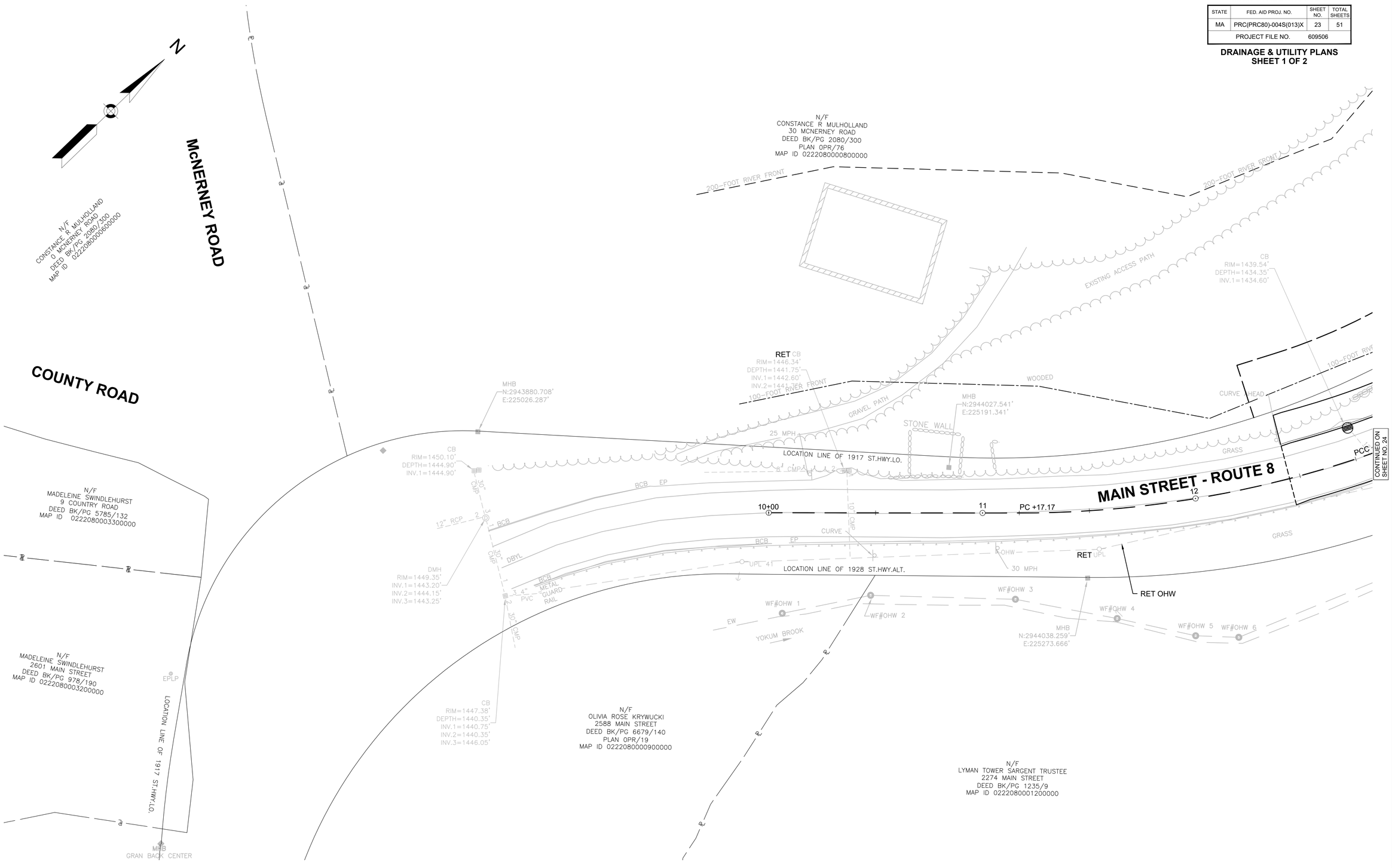


609506_HD(CURB TIE AND GRADING).DWG Plotted on 10-Jul-2026 11:23 AM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	23	51
PROJECT FILE NO.	609506		

DRAINAGE & UTILITY PLANS
SHEET 1 OF 2



609506_HD(DRAINAGE AND UTILITY).DWG Plotted on 18-Aug-2026 11:20 AM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	24	51
PROJECT FILE NO.	609506		

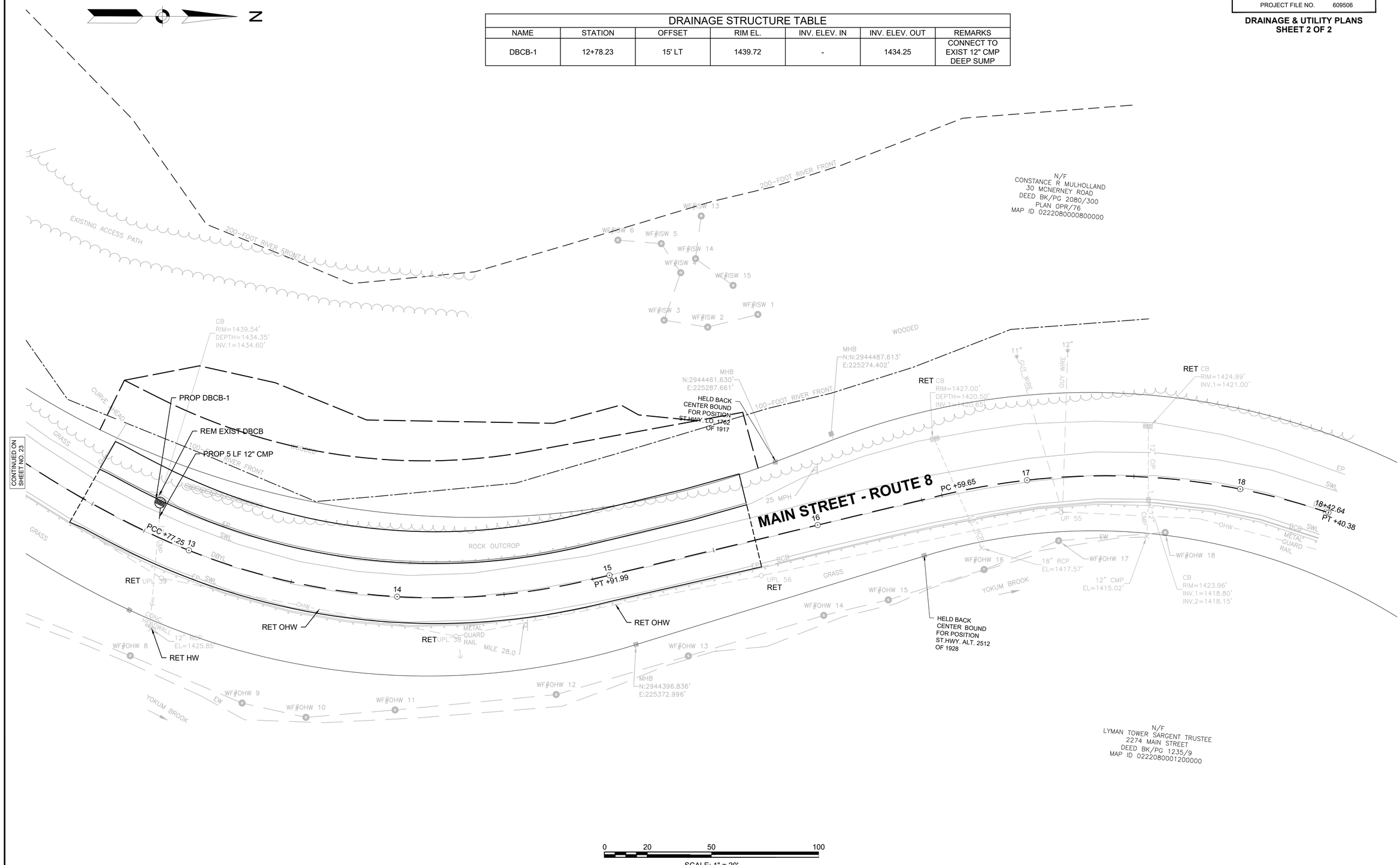
DRAINAGE & UTILITY PLANS
SHEET 2 OF 2

609506_HD(DRAINAGE AND UTILITY).DWG Plotted on 18-Aug-2026 11:22 AM

N

DRAINAGE STRUCTURE TABLE

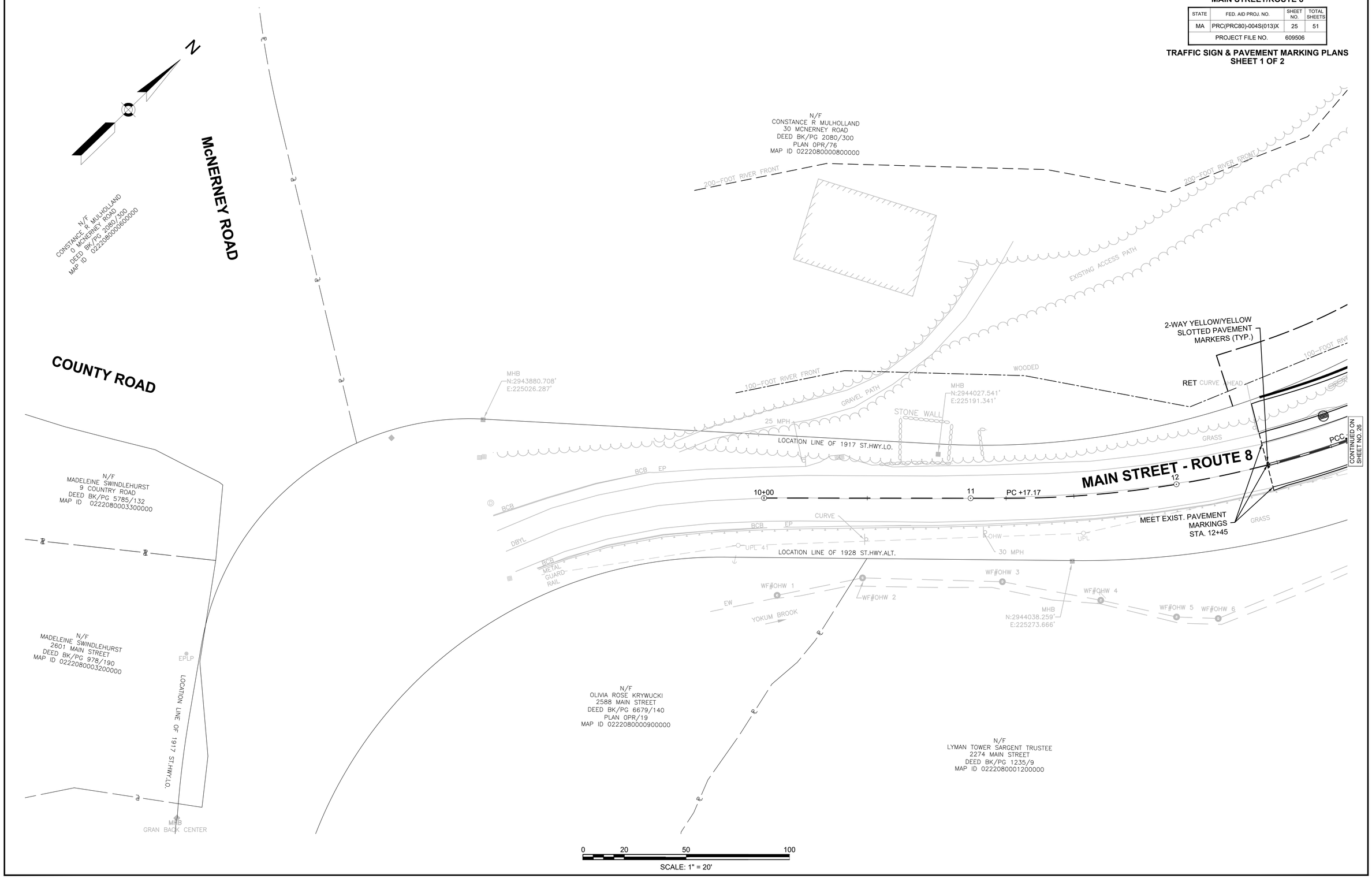
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
DBCB-1	12+78.23	15' LT	1439.72	-	1434.25	CONNECT TO EXIST 12" CMP DEEP SUMP



BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	25	51
PROJECT FILE NO.	609506		

TRAFFIC SIGN & PAVEMENT MARKING PLANS
SHEET 1 OF 2

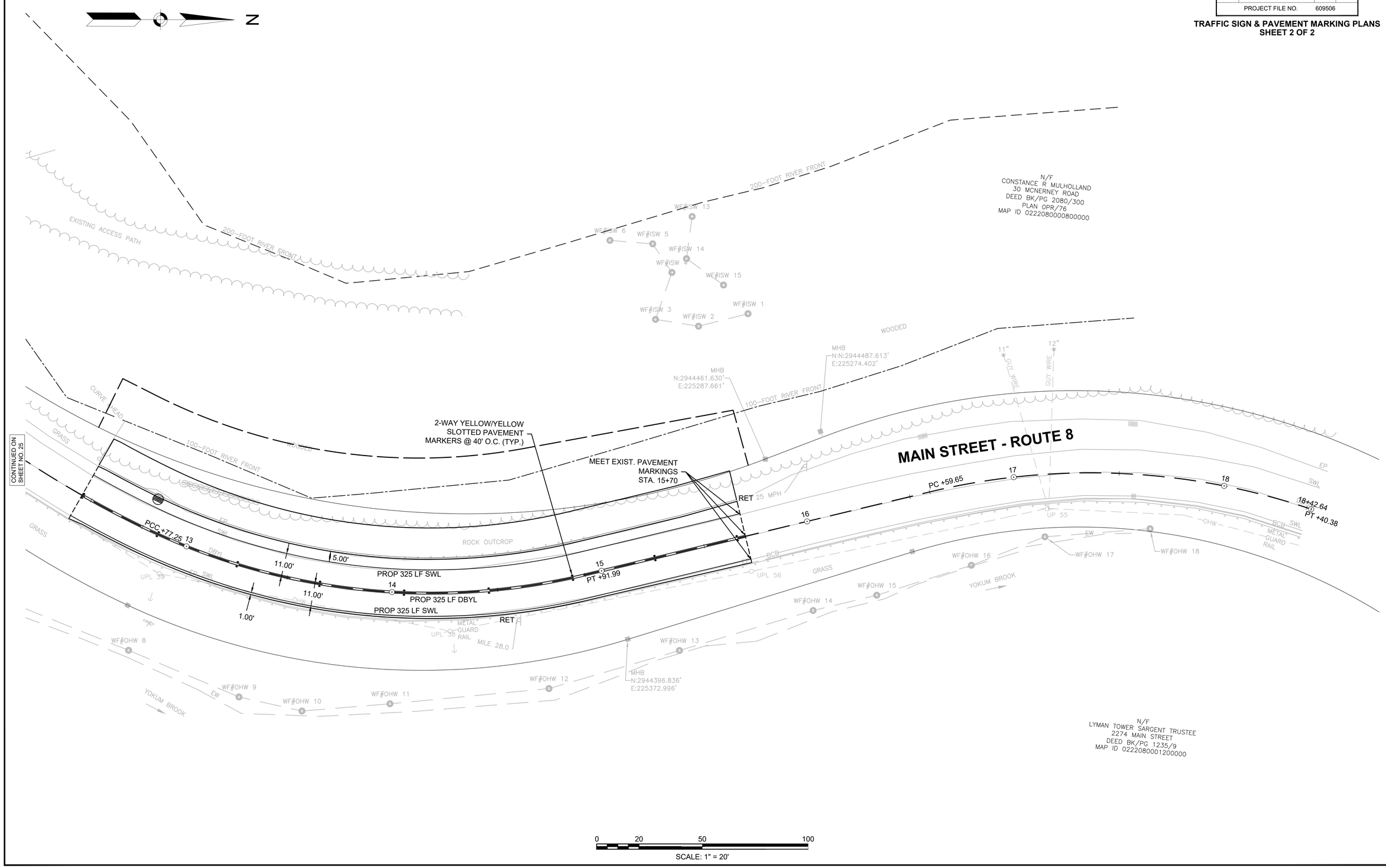


609506_HD(TRAFFIC SIGN AND PAVE).DWG Plotted on 6-Jul-2026 4:49 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	26	51
PROJECT FILE NO.	609506		

TRAFFIC SIGN & PAVEMENT MARKING PLANS
SHEET 2 OF 2



609506_HD(TRAFFIC SIGN AND PAVE).DWG Plotted on 6-Jul-2026 4:49 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	27	51
PROJECT FILE NO.	609506		

TEMPORARY TRAFFIC CONTROL PLANS
SHEET 1 OF 3

TTCP.DWG Plotted on 6-Jul-2026 4:50 PM

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE–LANE, TWO–WAY TRAFFIC TAPER	50 FT MIN. 100 FT MAX.
DOWNSTREAM TAPER	50 FT MIN. 100 FT MAX. PER LANE

Source: Table 6B–3 MUTCD LATEST EDITION

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	L= WS

WHERE: L = TAPER LENGTH IN FEET (METERS)

W = WIDTH OF OFFSET IN FEET (METERS)

S = POSTED SPEED LIMIT, OR OFF–PEAK 85TH–PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICAPATED OPERATING SPEED IN MPH (KM/H)

Source: Table 6B–4 MUTCD LATEST EDITION

DETAIL NUMBER	DETAIL NAME	CURRENT VERSION
851.1.1	CONES & DRUMS	JAN 2025
852.4.1	ALTERNATING ONE-WAY (FLAGGER CONTROL)	JAN 2025
852.4.4	ALTERNATING ONE-WAY (TRAFFIC OFFICER)	JAN 2025
852.5.3	TWO LANE ROAD SHOULDER CLOSURE	JAN 2025
853.2.1	TEMPORARY CONCRETE BARRIER MASH TL-2 1/3	JAN 2025
853.2.2	TEMPORARY CONCRETE BARRIER MASH TL-2 2/3	JAN 2025
853.2.3	TEMPORARY CONCRETE BARRIER MASH TL-2 3/3	JAN 2025

NOTES ON WORK ZONE DISTANCES
N.T.S.

TYPICAL TAPER LENGTHS (L_L OR L_S) IN FEET

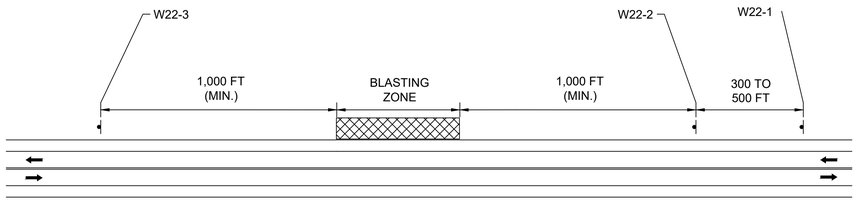
SPEED LIMIT (S) IN MPH	STOPPING SIGHT DISTANCE		
	10	11	12
25	104	115	125
30	150	165	180
35	204	225	245
40	267	293	320

NOTE FOR 852.5.3: FOR SHOULDER WIDTHS NOT LISTED IN TABLE, USE $L_S = (WS^2/60)/3$
NOTE FOR 852.5.4: FOR SHOULDER WIDTHS NOT LISTED IN TABLE, USE $L_S = WS^2/60$

MINIMUM LENGTH OF LONGITUDINAL BUFFER IS EQUAL TO THE STOPPING SIGHT DISTANCE AT THE POSTED SPEED LIMIT AND CAN BE DETERMINED FROM THE FOLLOWING TABLE:

STOPPING SIGHT DISTANCE	
SPEED (MPH)	DISTANCE (FT)
25	25
30	30
35	35
40	40

NOTES:
1. MAXIMUM DRUM SPACING IN A TAPER IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
2. MINIMUM LANE WIDTHS IS TO BE 11 FEET MEASURED FROM THE EDGE OF DRUMS.



BLASTING ZONE
N.T.S.

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	28	51
PROJECT FILE NO.	609506		

TEMPORARY TRAFFIC CONTROL PLANS
SHEET 2 OF 3

EMERGENCY VEHICLE PRE-EMPTION SCHEDULE

APPROACH	PREEMPTION PHASE	NEXT PHASE(S) CALLED	RECEIVER
NORTHBOUND	1	1	R1
SOUTHBOUND	2	2	R2

EMERGENCY VEHICLE PREEMPTION OPERATION:

1. EMERGENCY VEHICLE PRE-EMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
2. PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
3. IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAT TO BE SERVICED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
4. PREEMPTION MINIMUM GREENS SHALL BE TEN SECONDS.
5. NORMAL CLEARANCES SHALL BE PROVIDED ON PHASES THAT ARE TERMINATED BY PREEMPTION DEMAND.
6. ACTUAL TIMING FOR PREEMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY MASSDOT PRIOR TO OPERATION.

VEHICLE DETECTION DATA

DETECTION DATA

DETECTION ZONE NO.	LOCATION	Ø CALLED	Ø EXT.	MODE A=PULSE B=PRES.	DELAY TIME	EXT. TIME
1	MAIN STREET (ROUTE 8) NORTHBOUND	1	1	B	-	-
2	MAIN STREET (ROUTE 8) SOUTHBOUND	2	2	B	-	-

SIGNAL IDENTIFICATION

NOTES:

1. ALL SIGNALS SHALL HAVE CUT AWAY VISORS.
2. ALL SIGNALS SHALL HAVE 12" LED (UNLESS OTHERWISE NOTED) WITH 5" SOLID BACK PLATES AND 3 INCH YELLOW REFLECTORIZED BORDERS.

PREFERENTIAL PHASE SEQUENCE

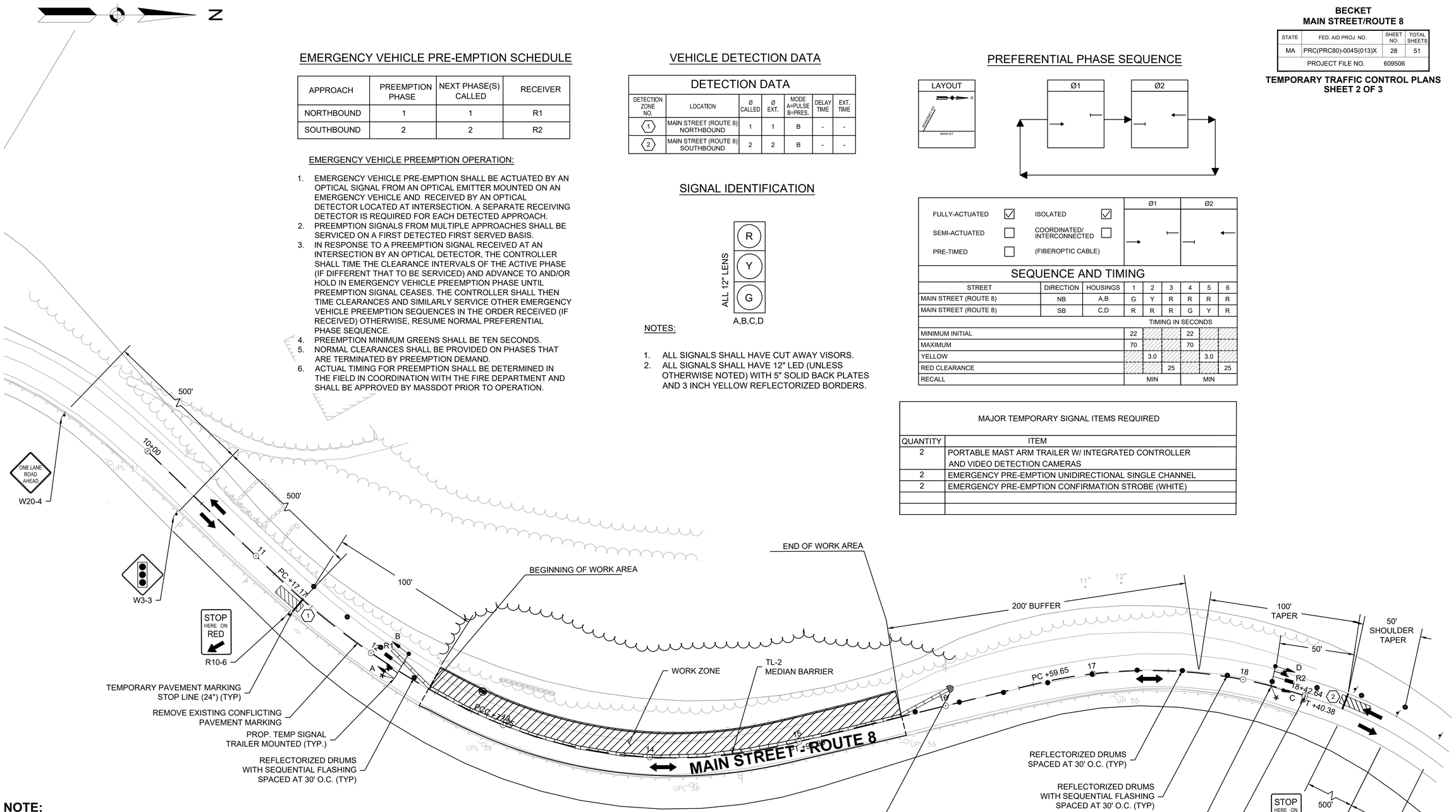
FULLY-ACTUATED	☑	ISOLATED	☑
SEMI-ACTUATED	☐	COORDINATED/ INTERCONNECTED	☐
PRE-TIMED	☐	(FIBEROPTIC CABLE)	

SEQUENCE AND TIMING

STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6
MAIN STREET (ROUTE 8)	NB	A,B	G	Y	R	R	R	R
MAIN STREET (ROUTE 8)	SB	C,D	R	R	R	G	Y	R
TIMING IN SECONDS								
MINIMUM INITIAL			22			22		
MAXIMUM			70			70		
YELLOW				3.0			3.0	
RED CLEARANCE					25			25
RECALL			MIN			MIN		

MAJOR TEMPORARY SIGNAL ITEMS REQUIRED

QUANTITY	ITEM
2	PORTABLE MAST ARM TRAILER W/ INTEGRATED CONTROLLER AND VIDEO DETECTION CAMERAS
2	EMERGENCY PRE-EMPTION UNIDIRECTIONAL SINGLE CHANNEL
2	EMERGENCY PRE-EMPTION CONFIRMATION STROBE (WHITE)



NOTE:

1. INSTALL W20-1 ON MCNERNEY ROAD & COUNTY ROAD SOUTH TO THIS WORKZONE.
2. SIGNS SHOWN ON THIS SHEET SHALL BE INSTALLED ON MAIN STREET.
3. EXISTING CONFLICTING PAVEMENT MARKINGS BETWEEN THE ACTIVITY AREA AND EACH STOP LINE SHALL BE REMOVED.
4. AFTER THE TEMPORARY TRAFFIC CONTROL SIGNAL IS REMOVED, THE STOP LINES AND OTHER TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND THE PERMANENT PAVEMENT MARKINGS RESTORED.
5. INITIAL TEMPORARY SIGNAL TIMING BASED ON TRAFFIC VOLUME DATA.
6. TEMPORARY SIGNAL TIMING SHALL BE ADJUSTED BY THE CONTRACTOR TO MINIMIZE TRAFFIC DELAYS ON BOTH APPROACHES AS DIRECTED BY THE RESIDENT ENGINEER.

0 30 60 100
SCALE: 1" = 30'

609506_HD(TRAFFIC).DWG Plotted on 10-Jul-2026 1:08 PM

CONSTRUCTION SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER		
MA-R2-10a	48"	36"	WORK ZONES / SPEEDING FINES DOUBLED	2	2	2	2	FLUOR. ORANGE/ WHITE	BLACK	BLACK	12.00	24.00
MA-R2-10e	36"	48"	END ROAD WORK DOUBLE FINES END				2	FLUOR. ORANGE/ WHITE	BLACK	BLACK	12.00	24.00
G20-1	36"	18"	ROAD WORK NEXT XX MILES	1	1	1	1	FLUOR. ORANGE	BLACK	BLACK	9.00	9.00
R10-6	24"	36"	STOP HERE ON RED				2	FLUOR. ORANGE	BLACK	BLACK	6.00	12.00
W3-3	36"	36"					2	FLUOR. ORANGE	BLACK	BLACK	9.00	18.00
W20-1	36"	36"	ROAD WORK AHEAD				4	FLUOR. ORANGE	BLACK	BLACK	9.00	36.00
W20-7	36"	36"					2	FLUOR. ORANGE	BLACK	BLACK	9.00	18.00
MA-W20-7b	36"	36"	POLICE OFFICER AHEAD				2	FLUOR. ORANGE	BLACK	BLACK	9.00	18.00
W20-4	36"	36"	ONE LANE ROAD AHEAD				2	FLUOR. ORANGE	BLACK	BLACK	9.00	18.00
W22-1	36"	36"	BLASTING ZONE AHEAD				1	FLUOR. ORANGE	BLACK	BLACK	9.00	9.00
W22-2	42"	36"	TURN OFF 2-WAY RADIO				1	FLUOR. ORANGE	BLACK	BLACK	10.50	10.50
W22-3	42"	36"	END BLASTING ZONE				1	FLUOR. ORANGE	BLACK	BLACK	10.50	10.50

NOTES:

1. (1) SEE MUTCD 11TH EDITION, 2024 LATEST STD. HWY. SIGNS AND SECTION M9.30.0 TYPE III OF THE MASSDOT STANDARD SPECIFICATION FOR TEXT DIMENSIONS AND COLOR.

   (2) SEE MASSDOT SIGN STANDARDS.

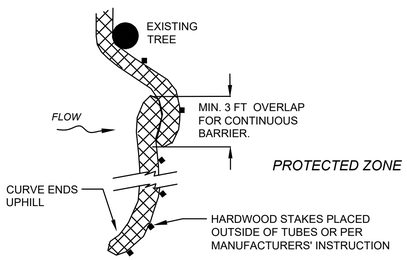
2. SIGNS TO BE R&R FOR EACH STAGE OF CONSTRUCTION.
3. HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING CONFORMING TO SECTION M9.30.0 TYPE III OR IV, OF THE MASSDOT STANDARD SPECIFICATIONS, SHALL BE USED FOR ALL SIGNS
4. TRAFFIC MANAGEMENT SIGNS SHALL BE REUSED ACCORDING TO CONSTRUCTION SCHEDULE IN ORDER TO MINIMIZE THE TOTAL NUMBER OF SIGNS NEEDED.

TTCP.DWG Plotted on 6-Jul-2026 4:55 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	30	51
PROJECT FILE NO.	609506		

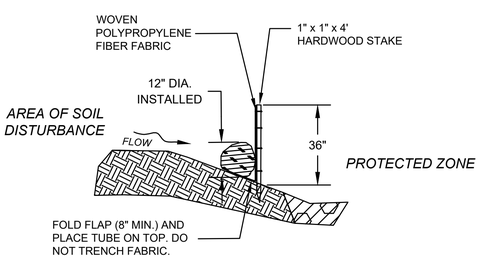
CONSTRUCTION DETAILS



PLACE TUBE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE, ALONG CONTOURS, AND PERPENDICULAR TO FLOW.

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

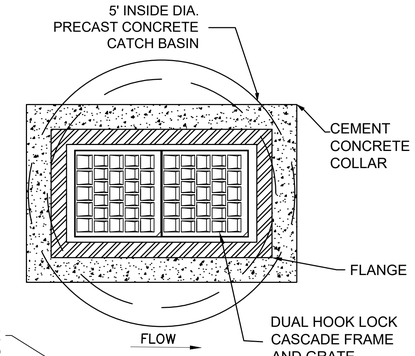
PLAN VIEW



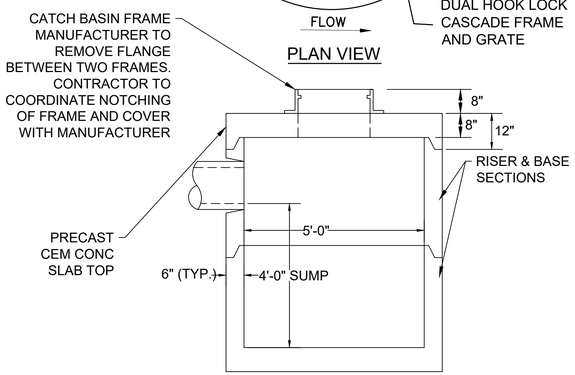
SECTION

COMPOST FILTER TUBE & SILT FENCE

NOT TO SCALE



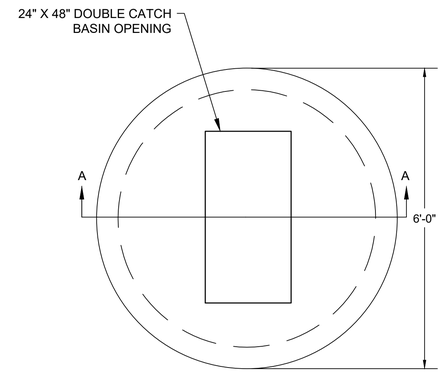
PLAN VIEW



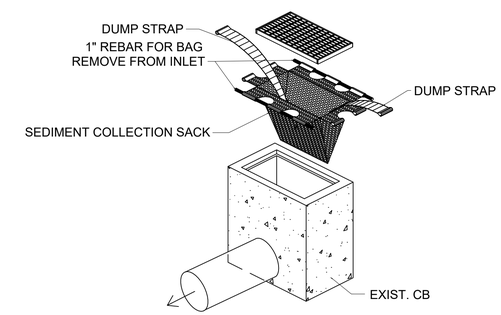
SECTION A-A

SPECIAL CATCH BASIN - DOUBLE GRATE

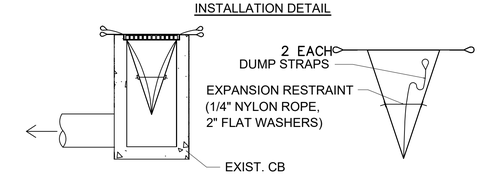
NOT TO SCALE



PLAN



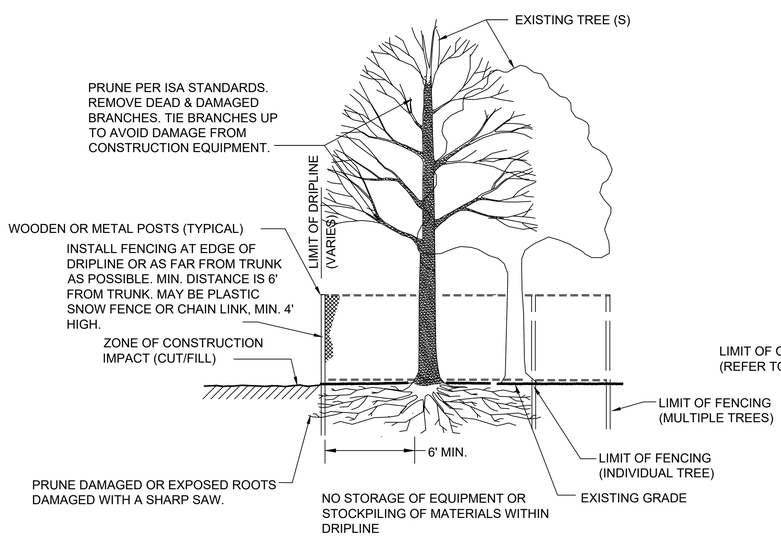
INSTALLATION DETAIL

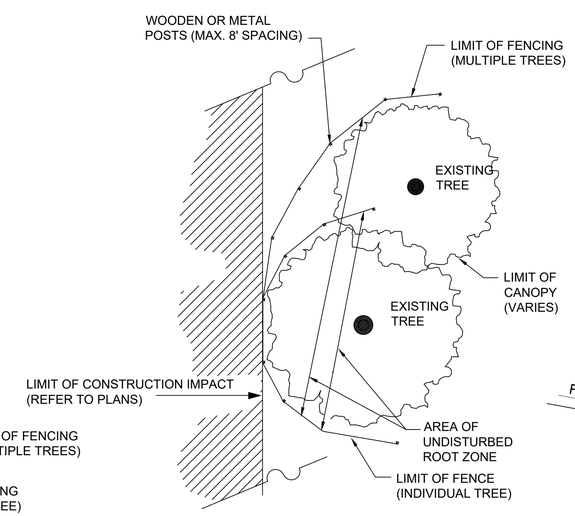


BAG DETAIL

SEDIMENT COLLECTION SACK DETAIL (ITEM 697.1)

NOT TO SCALE

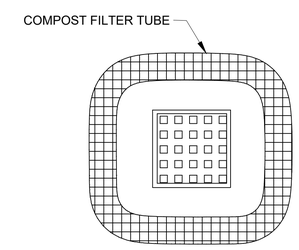




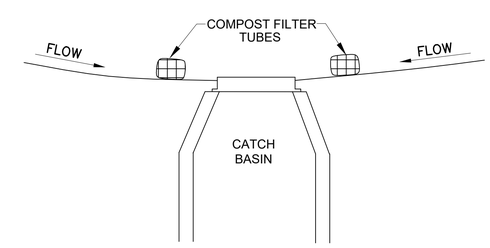
PLAN VIEW

TREE PROTECTION DETAIL

NOT TO SCALE



PLAN



SECTION

DETAIL FOR SEDIMENT CONTROL AT CATCH BASIN & DROP INLET

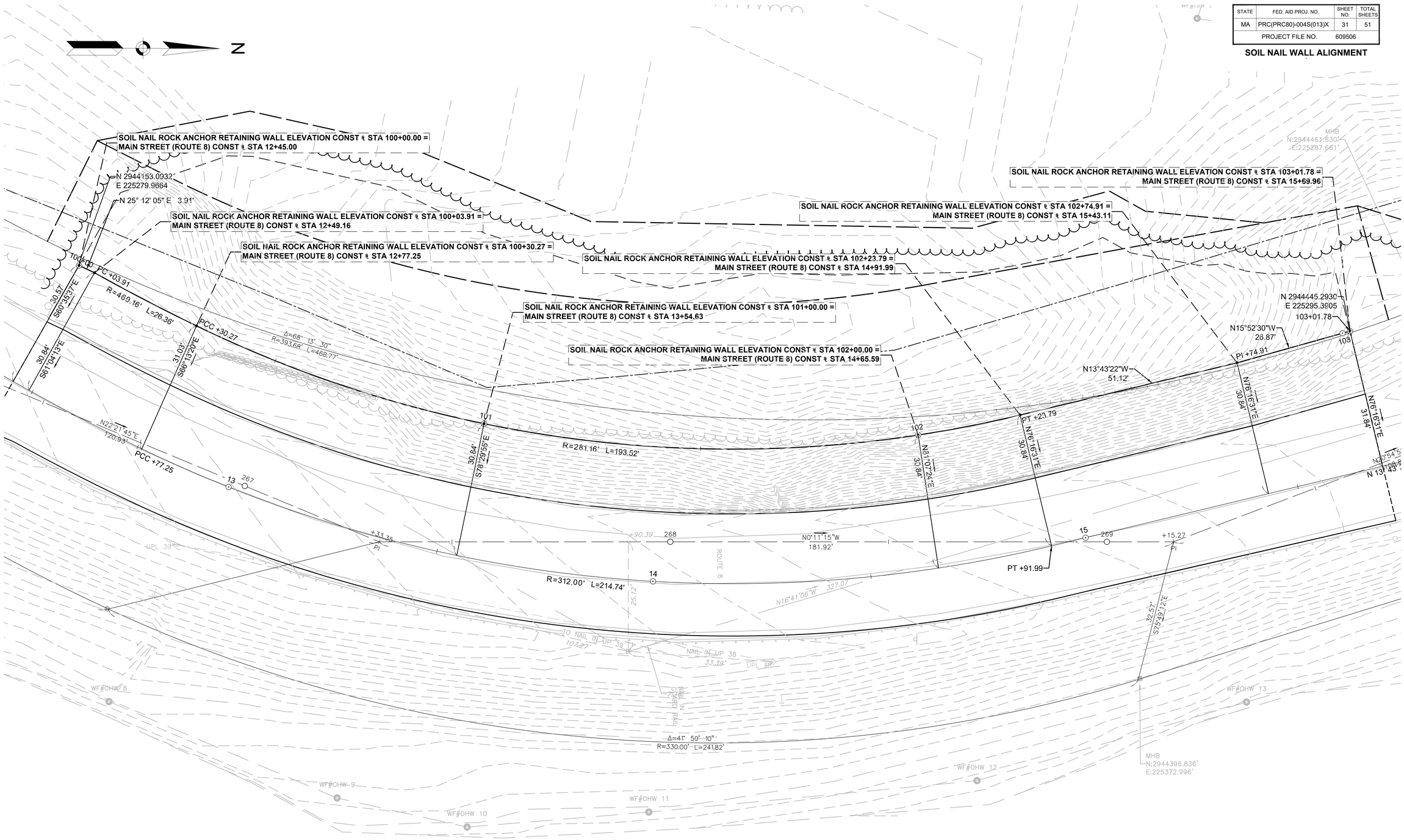
NOT TO SCALE

609506_HD(CONSTRUCTION DETAILS).DWG Plotted on 7-Jul-2026 7:33 AM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	31	51
PROJECT FILE NO.	609506		

SOIL NAIL WALL ALIGNMENT



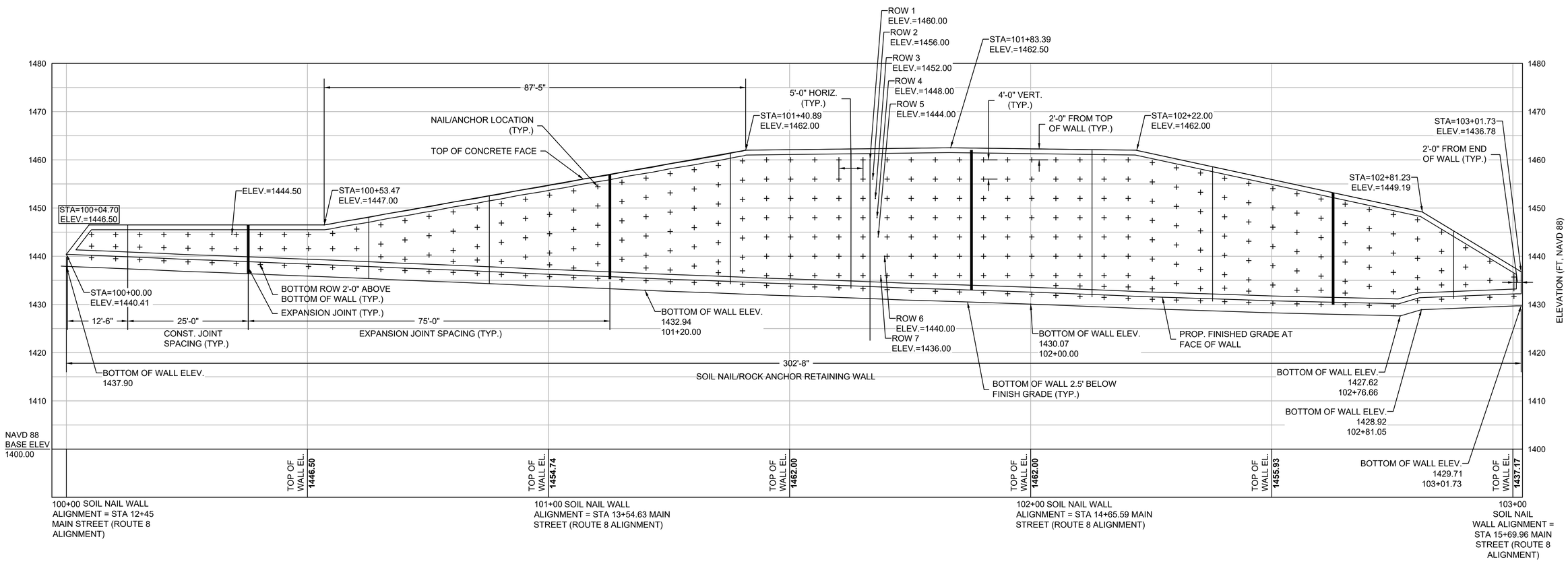
WALL PROFILE.DWG Plotted on 6-Jul-2026 4:57 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	32	51
PROJECT FILE NO.	609506		

SOIL NAIL WALL PROFILE

SOIL NAIL/ROCK ANCHOR RETAINING WALL ELEVATION



NOTES:
1. FINAL DESIGN AND LAYOUT OF SOIL NAILS/ROCK ANCHORS TO BE PROVIDED BY SPECIALTY WALL DESIGNER FOR REVIEW AND APPROVAL BY ENGINEER AND MASSDOT.

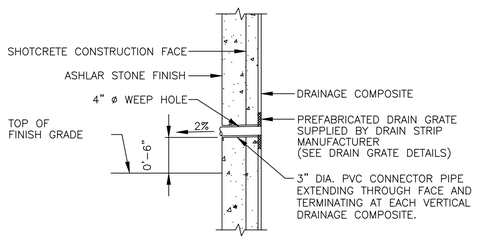
HOR. SCALE IN FEET
10 0 10 20
10 0 10 20
VER. SCALE IN FEET

WALL PROFILE.DWG Plotted on 6-Jul-2026 4:57 PM

BECKET
MAIN STREET/ROUTE 8

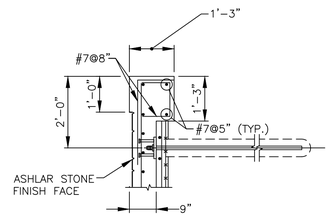
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	33	51
PROJECT FILE NO.	609506		

SOIL NAIL WALL DETAILS



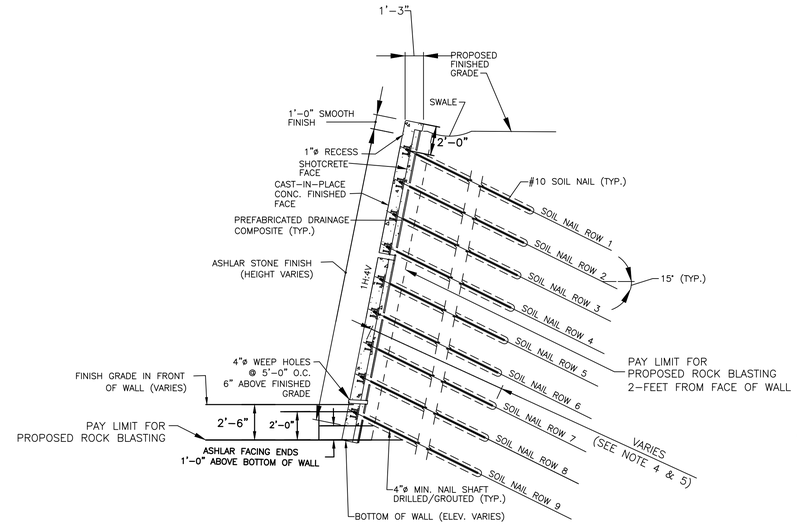
WALL WEEP HOLE/DRAIN DETAIL

SCALE: NOT TO SCALE



WALL END DETAIL

SCALE: NOT TO SCALE

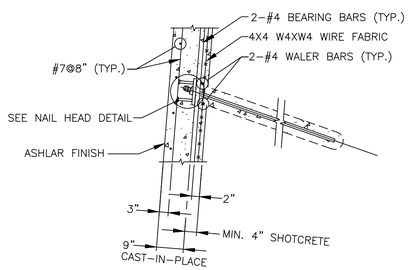


ENCAPSULATED SOIL NAIL/ ROCK ANCHOR

SCALE: NOT TO SCALE

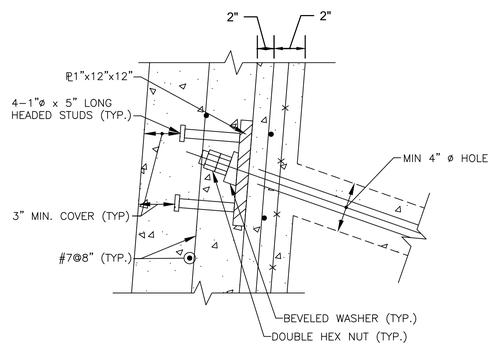
NOTES:

1. FOR TOP OF WALL AND BOTTOM OF WALL ELEVATIONS, SEE SHEET 31.
2. LIMITS OF ASHLAR STONE FACING SHALL BE SET 1'-0" DOWN FROM TOP OF WALL, 1'-0" FROM ENDS OF WALL, AND 1'-0" ABOVE BOTTOM OF WALL.
3. SOIL NAILS/ROCK ANCHORS SHALL BE SPACED 4'-0" VERTICALLY AND 5'-0" HORIZONTALLY, UNLESS OTHERWISE SHOWN.
4. FOR ROWS 1 TO 4 MINIMUM SOIL NAIL/ROCK ANCHOR EMBEDMENT LENGTHS WILL DEPEND ON BEDROCK WEATHERING. FOR SLIGHTLY TO MODERATELY WEATHERED BEDROCK, EMBEDMENT LENGTHS SHALL BE MINIMUM 20 FEET. FOR HIGHLY TO SEVERELY WEATHERED BEDROCK, EMBEDMENT LENGTHS SHALL BE MINIMUM 25 FEET. EMBEDMENT LENGTHS PROVIDED IN THESE DOCUMENTS ARE CONSIDERED MINIMUM PRELIMINARY REQUIREMENTS AND THE FINAL SOIL NAIL/ROCK ANCHOR LENGTHS SHALL BE ESTABLISHED BY THE SPECIALTY WALL DESIGNER BASED ON FINAL DESIGN AND FIELD CONDITIONS AND EMBEDMENT LENGTHS SHALL BE PROVEN WITH VERIFICATION TESTING.
5. FOR ROWS 5 TO 9: FOR SLIGHTLY TO MODERATELY WEATHERED BEDROCK, EMBEDMENT LENGTH SHALL BE MINIMUM 15 FEET. FOR HIGHLY TO SEVERELY WEATHERED BEDROCK, EMBEDMENT LENGTH SHALL BE MINIMUM 20 FEET. EMBEDMENT LENGTHS PROVIDED IN THESE DOCUMENTS ARE CONSIDERED MINIMUM PRELIMINARY REQUIREMENTS AND THE FINAL SOIL NAIL/ROCK ANCHOR LENGTHS SHALL BE ESTABLISHED BY THE SPECIALTY WALL DESIGNER BASED ON FINAL DESIGN AND FIELD CONDITIONS AND EMBEDMENT LENGTHS SHALL BE PROVEN WITH VERIFICATION TESTING.
6. ROCK EXCAVATION AND BLASTING OPERATIONS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 120.62, CLASS A ROCK EXCAVATION AND SECTION 120.63, PRESPLITTING ROCK, OF THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PRESPLITTING SHALL BE PERFORMED TO PRODUCE A UNIFORM, STABLE ROCK FACE AND TO PREVENT FRACTURING OR OVERBREAK BEYOND THE DESIGN SLOPE LINE.
7. BLASTING METHODS SHALL BE CONTROLLED SUCH THAT ROCK EXCAVATION DOES NOT EXTEND MORE THAN 24 INCHES BEYOND AND PARALLEL TO THE SLOPE LINES SHOWN ON THE PLANS OR AS ORDERED IN WRITING BY THE ENGINEER, IN ACCORDANCE WITH SECTION 120.80. ROCK EXCAVATION EXTENDING BEYOND THESE LIMITS SHALL BE CONSIDERED OVERBLAST RESULTING FROM THE CONTRACTOR'S BLASTING OPERATIONS AND SHALL NOT BE PAID FOR.



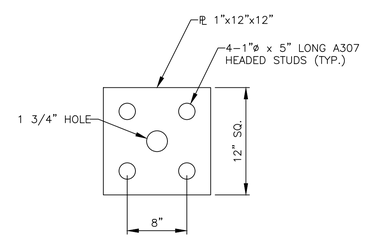
FINISHED FACE ATTACHMENT DETAIL

SCALE: NOT TO SCALE



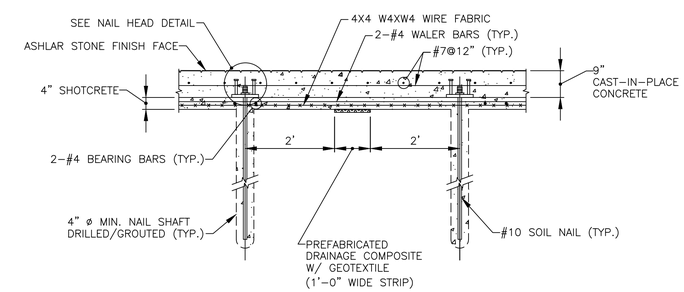
NAIL HEAD CONNECTION PLATE DETAIL (SECTION)

SCALE: NOT TO SCALE



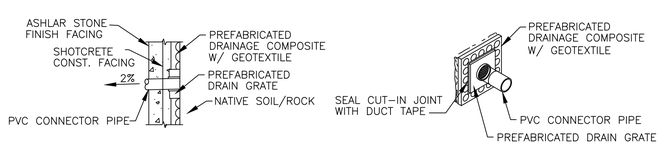
NAIL HEAD CONNECTION PLATE DETAIL (PLAN)

SCALE: NOT TO SCALE



TOP SECTION FINISHED FACE ATTACHMENT DETAIL

SCALE: NOT TO SCALE

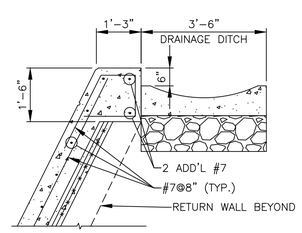


SECTION ISOMETRIC

NOTE: DRAIN GRATE INSTALLATION SHALL NOT DISRUPT GEOTEXTILE

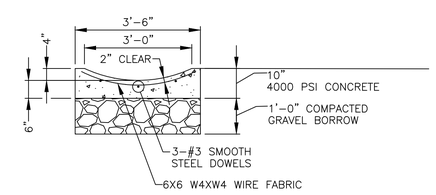
WEEP HOLE CONNECTOR PIPE/DRAIN GRATE DETAIL

NOT TO SCALE



TOP OF WALL DETAIL

SCALE: NOT TO SCALE



WALL DRAINAGE DITCH DETAIL

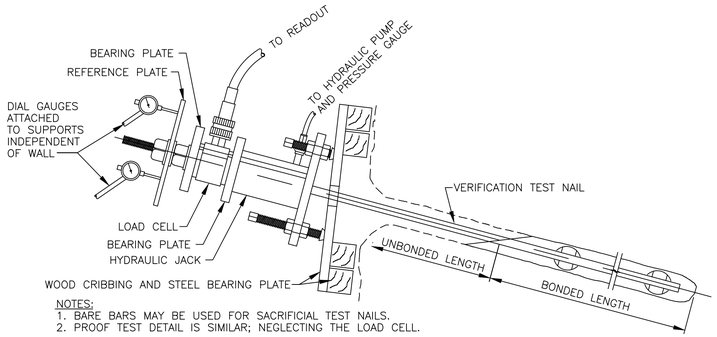
SCALE: NOT TO SCALE

SOIL NAIL WALL DETAILS 2.DWG Plotted on 15-Jul-2026 9:46 AM

BECKET
MAIN STREET/ROUTE 8

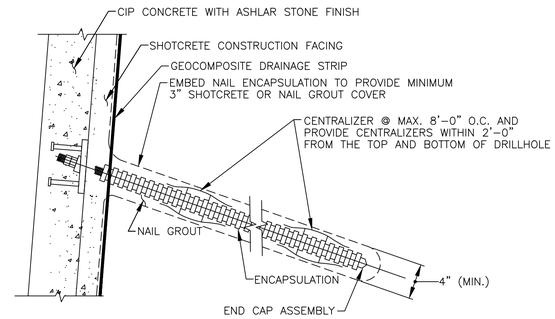
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	34	51
PROJECT FILE NO.	609506		

SOIL NAIL WALL DETAILS

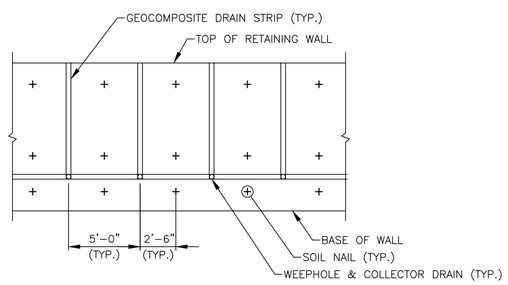


NOTES:
1. BARE BARS MAY BE USED FOR SACRIFICIAL TEST NAILS.
2. PROOF TEST DETAIL IS SIMILAR; NEGLECTING THE LOAD CELL.

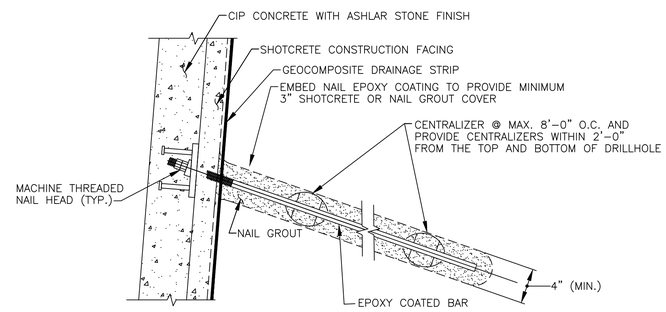
VERIFICATION TEST NAIL DETAIL
SCALE: NOT TO SCALE



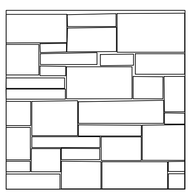
ENCAPSULATED SOIL NAIL/ ROCK ANCHOR
SCALE: NOT TO SCALE



GEOCOMPOSITE DRAINAGE STRIP DETAIL
SCALE: NOT TO SCALE



EPOXY COATED NAILS WITH
MACHINE THREADED END DETAIL
SCALE: NOT TO SCALE



NOTE: THE WALL SHALL BE A RUSTIC ASHLAR STONE FINISH

ASHLAR STONE FINISH DETAIL
SCALE: NOT TO SCALE

NOTES:

1. FOR GENERAL STRUCTURAL NOTES SEE SHEET S-1.
2. CAST IN PLACE CONCRETE WITH ASHLAR STONE FINISH SHALL BE 4000 PSI, ¾" CEMENT CONCRETE.
3. SHOTCRETE SHALL BE 4000 PSI MIX, DESIGNED BY CONTRACTOR TO ADEQUATELY SUPPORT SOIL CONDITIONS THROUGHOUT CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES.
5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STABLE EXCAVATION SLOPES THROUGHOUT CONSTRUCTION.
6. WALL EXCAVATION LIFTS AND CONSTRUCTION BENCHES SHALL BE COORDINATED WITH SOIL NAIL/ROCK ANCHOR INSTALLATION. NO OVER EXCAVATION WILL BE PERMITTED.
7. ALL REQUIRED LINE DRILLING AND CONTROLLED BLASTING ALONG THE WALL ALIGNMENT SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY SOIL NAIL OR ROCK ANCHOR DRILLING AND INSTALLATION. TEMPORARY STABILIZING BERMS, IF USED, SHALL BE FOR MAINTAINING FACE STABILITY DURING STAGED EARTH EXCAVATION AND NAIL INSTALLATION ONLY.

SHOTCRETE WALL NOTES:

1. INSTALL 3/4" PREMOLDED FILLER AT EXPANSION JOINT LOCATIONS.
2. SUPPLY AND INSTALL GUIDE WIRES, METAL PIN GAUGES, OR OTHER APPROVED METHOD TO PROVIDE AN EVEN SURFACE ON THE SHOTCRETE WALL FACE.
3. PROVIDE A NATURAL GUN FINISH ON THE SHOTCRETE SURFACE.
4. SUBMIT CURING METHOD AND MIX DESIGN FOR APPROVAL.

SOIL NAIL/ROCK ANCHOR NOTES:

1. SOIL NAIL/ROCK ANCHOR MATERIALS SHALL BE COMPRISED OF THE FOLLOWING:
   - A. ALL NUT AND ANCHORAGE COVER ASSEMBLIES SHALL BE PER THE MANUFACTURERS RECOMMENDATIONS.
   - B. THE NAIL SHALL CONSIST OF AN ENCAPSULATED NO. 10 BAR EPOXY COATED CONFORMING TO AASHTO M-31 AND BE CENTERED IN THE PRE-DRILLED HOLE AND GROUTED.
   - C. PERMANENT CONCRETE SHEAR CONNECTION ASSEMBLY CONSTRUCTED OF A 1" x 12" SQUARE PLATE AND (4) 1" x 5" HEADED STUDS, ALL GALVANIZED.
   - D. NON-CORROSIVE NAIL CENTRALIZER DEVICE.
   - E. MINIMUM TENSILE STRENGTH (Fu) OF SOIL NAIL BARS SHALL BE 80 KSI.
2. ANY ALTERATION TO THE APPROVED SOIL NAIL/ROCK ANCHOR LOCATION, LENGTH, OR DECLINATION MUST BE RESUBMITTED FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
3. CEMENT GROUT SHALL BE PORTLAND CEMENT TYPE I OR II WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
4. SOIL NAILS/ROCK ANCHORS HAVE BEEN DESIGNED WITH THE FOLLOWING ALLOWABLE PULLOUT RESISTANCE VALUES, Q_d (KIPS/FT.):

SOIL TYPE	Q_d(KIPS/FT.)
STRONG ROCK	40
WEATHERED ROCK	4.8

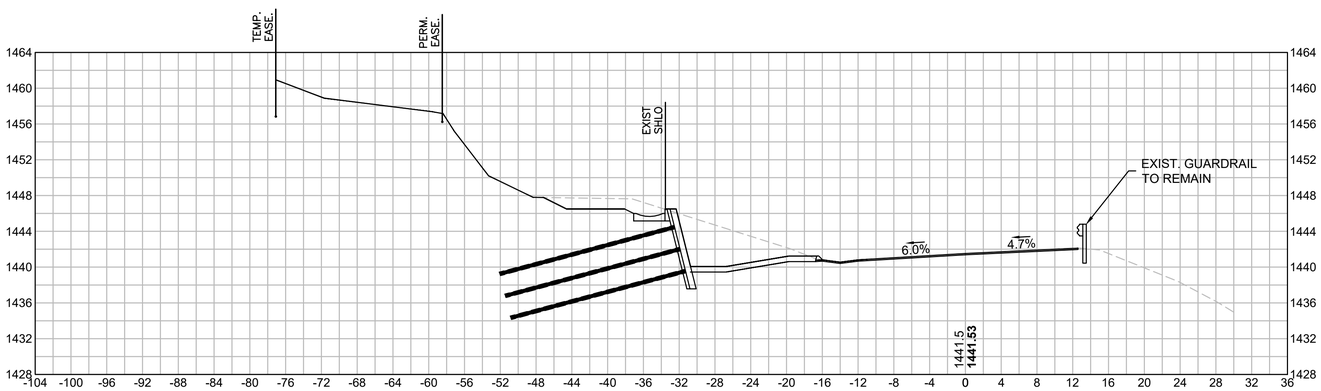
5. CONTRACTOR SHALL PERFORM VERIFICATION TESTING IN EACH SOIL NAIL/ROCK ANCHOR BEARING MATERIAL AS SPECIFIED IN PLAN DRAWINGS TO VERIFY PULLOUT RESISTANCE. SHOULD TEST RESULTS NOT MEET THE VALUES ABOVE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. DESIGN REVISION MAY BE REQUIRED.

SOIL NAIL WALL DETAILS 2.DWG Plotted on 6-Jul-2026 4:58 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	35	51
PROJECT FILE NO.	609506		

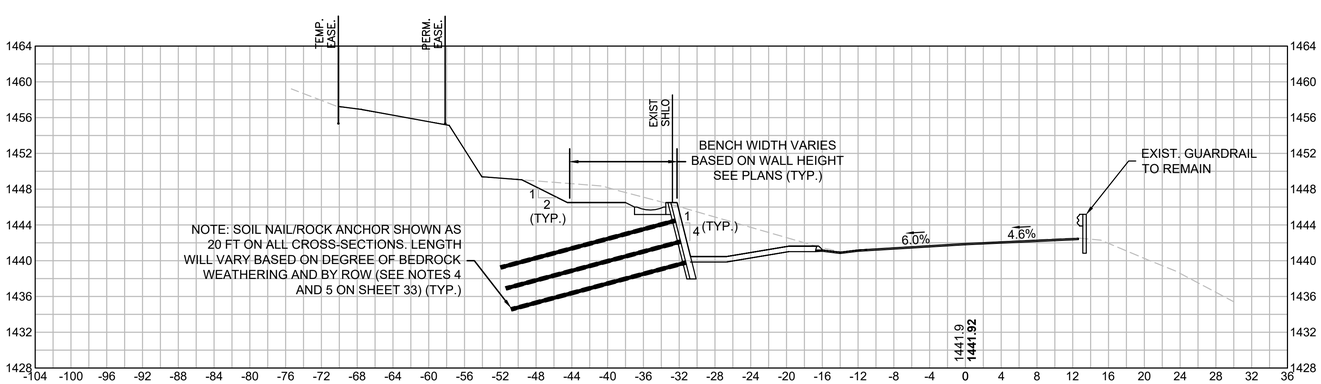
CROSS SECTIONS - ROUTE 8
SHEET 1 OF 17



12+60

ROCK CUT:
CUT: 60.25 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 12.01 SF
FILL: 0 SF



12+50

ROCK CUT:
CUT: 58.21 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 18.81 SF
FILL: 0 SF

HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:02 PM

BECKET
MAIN STREET/ROUTE 8

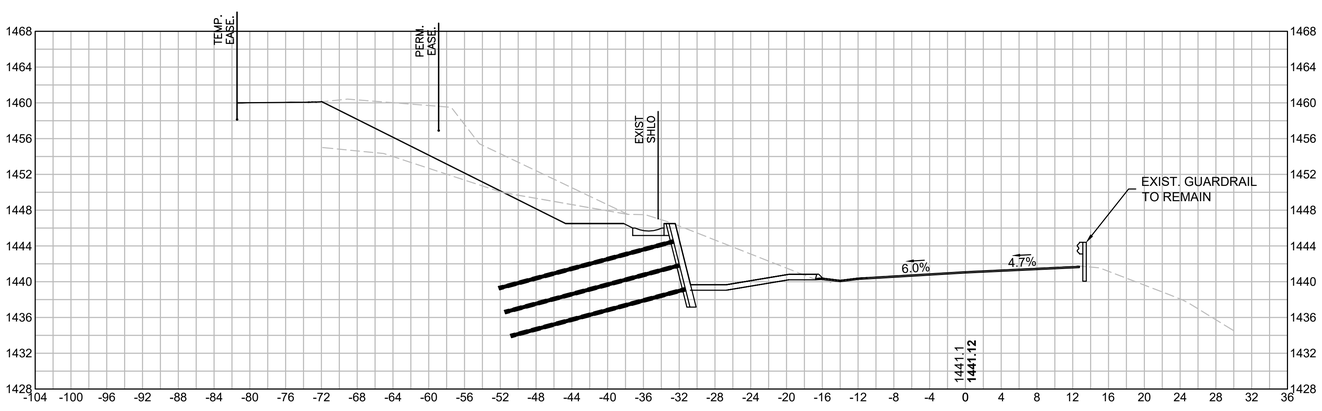
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	36	51
PROJECT FILE NO.	609506		

CROSS SECTIONS - ROUTE 8
SHEET 2 OF 17

12+80

ROCK CUT:
CUT: 212.43 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 103.67 SF
FILL: 0 SF



12+70

ROCK CUT:
CUT: 83.99 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 105.15 SF
FILL: 0 SF

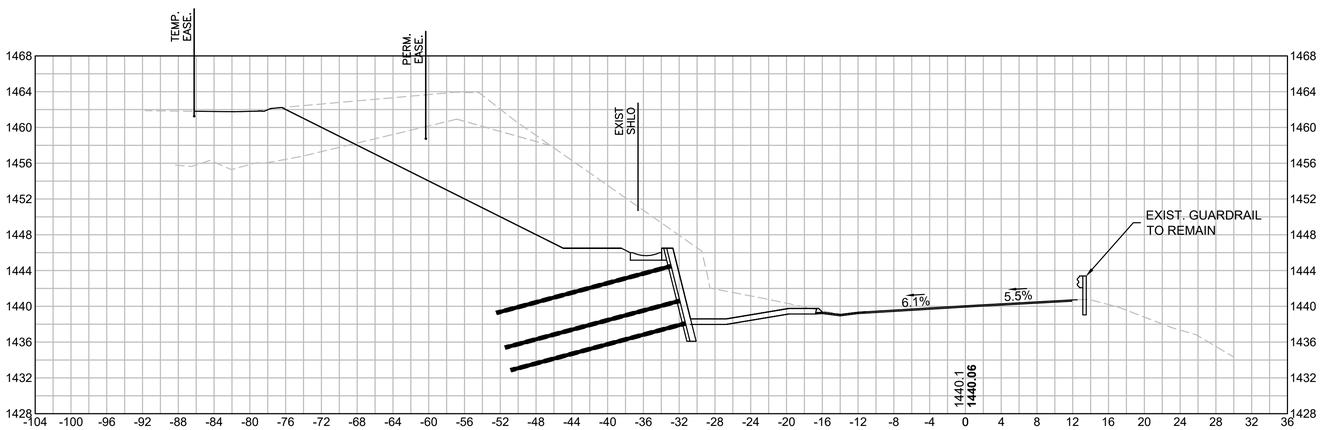
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:02 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	37	51
PROJECT FILE NO.	609506		

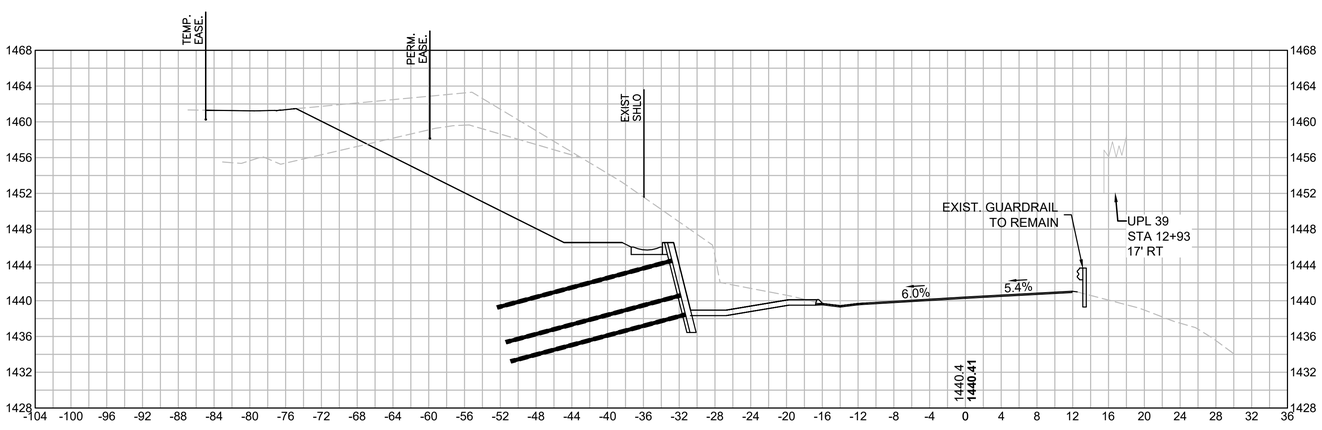
CROSS SECTIONS - ROUTE 8
SHEET 3 OF 17



13+00

ROCK CUT:
CUT: 309.65 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 77.40 SF
FILL: 0 SF



12+90

ROCK CUT:
CUT: 299.50 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 78.30 SF
FILL: 0 SF

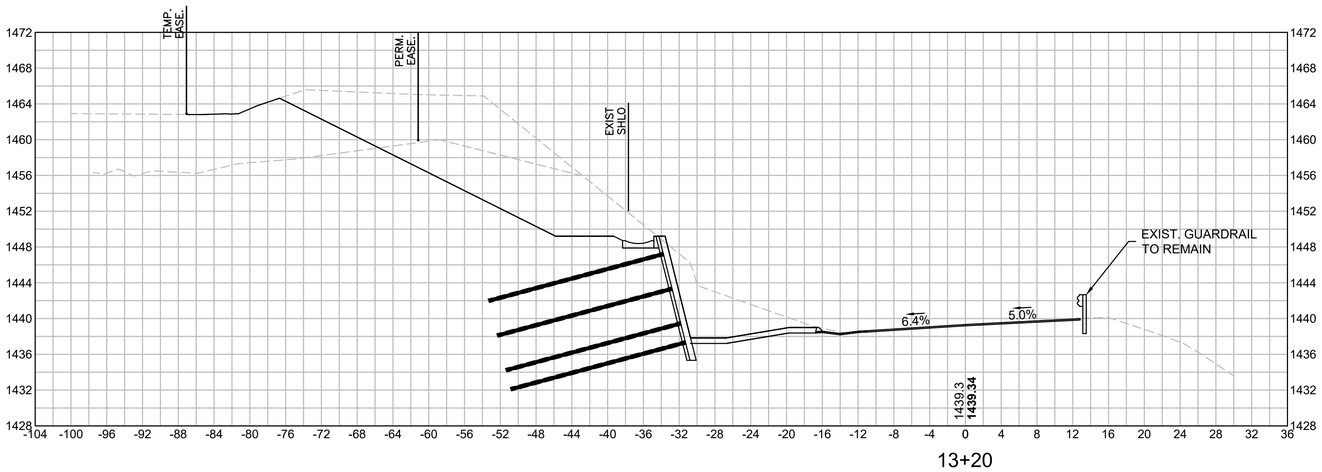
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:02 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	38	51
PROJECT FILE NO.	609506		

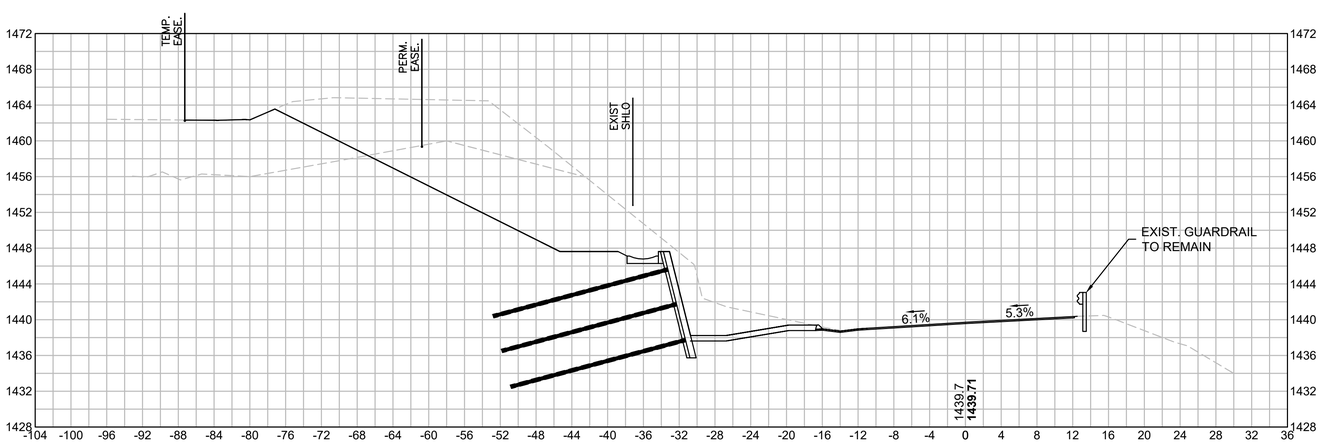
CROSS SECTIONS - ROUTE 8
SHEET 4 OF 17



13+20

ROCK CUT:
CUT: 234.76 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 118.42 SF
FILL: 0 SF



13+10

ROCK CUT:
CUT: 272.82 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 118.40 SF
FILL: 0 SF

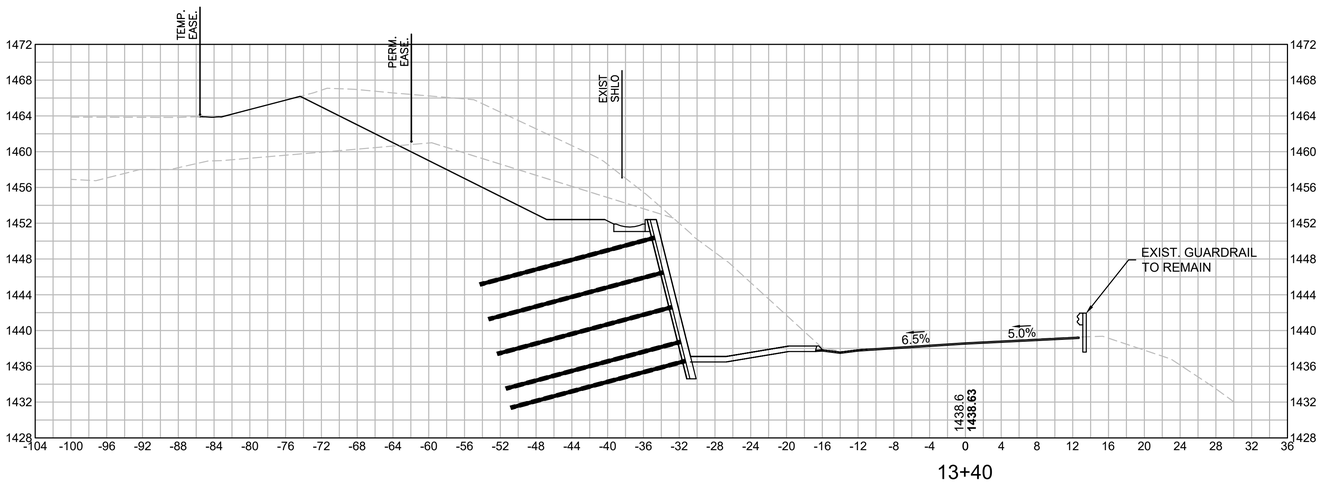
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:02 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	39	51
PROJECT FILE NO.	609506		

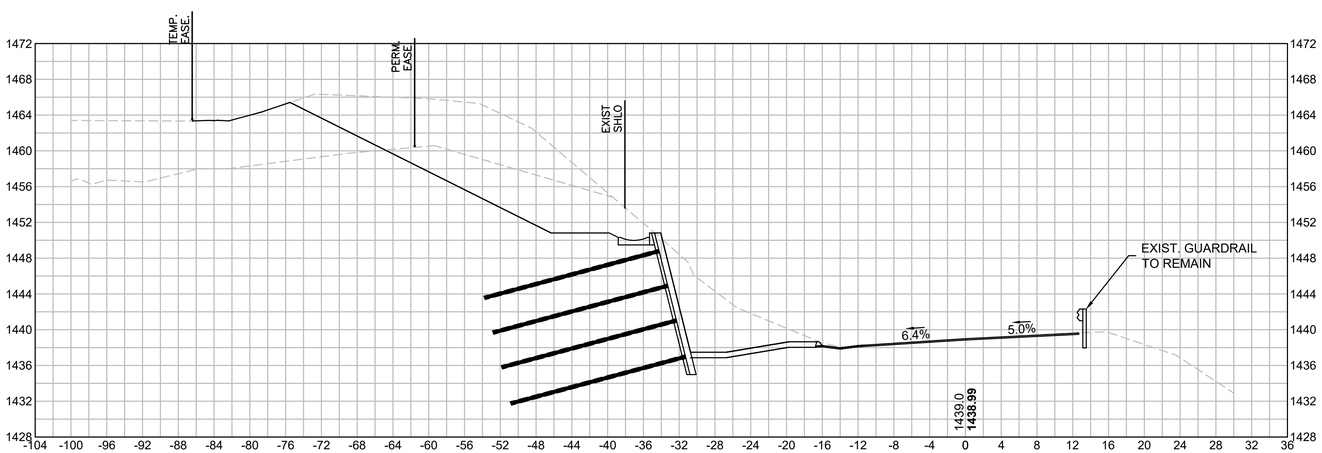
CROSS SECTIONS - ROUTE 8
SHEET 5 OF 17



13+40

ROCK CUT:
CUT: 295.11 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 114.90 SF
FILL: 0 SF



13+30

ROCK CUT:
CUT: 240.43 SF
FILL: 0 SF

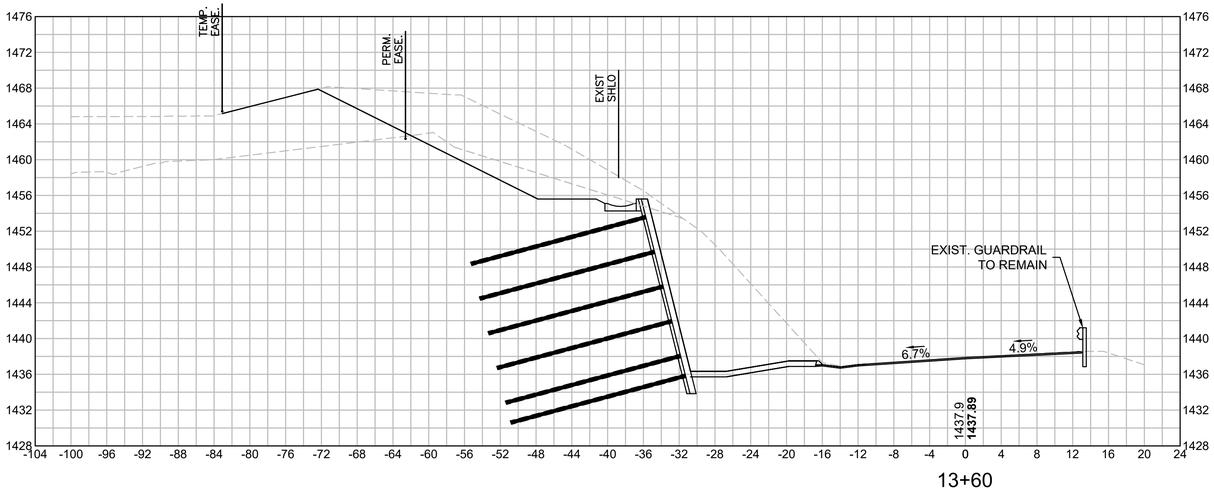
EARTH EXCAVATION:
CUT: 116.12 SF
FILL: 0 SF

HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	40	51
PROJECT FILE NO.	609506		

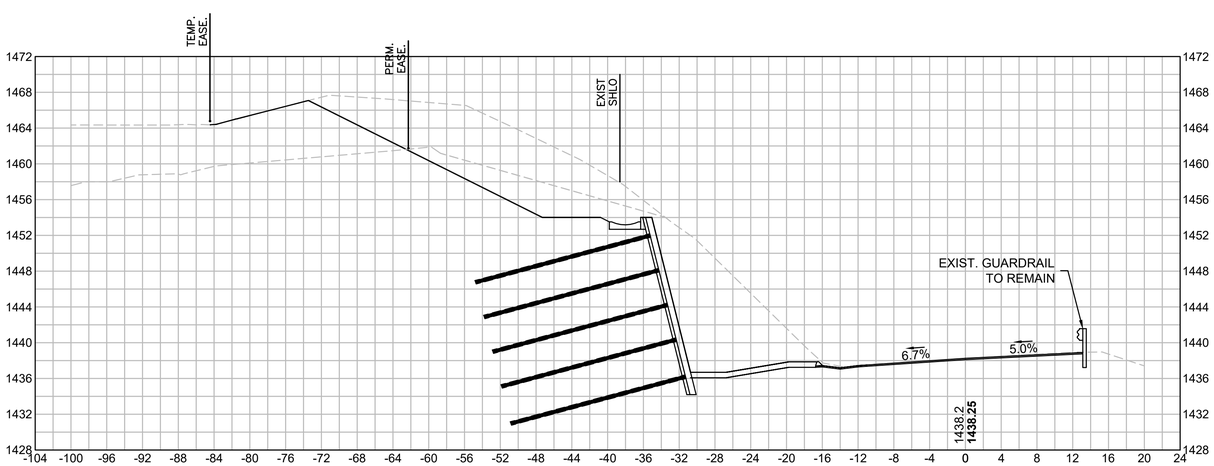
CROSS SECTIONS - ROUTE 8
SHEET 6 OF 17



13+60

ROCK CUT:
CUT: 275.12 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 94.43 SF
FILL: 0 SF



13+50

ROCK CUT:
CUT: 285.96 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 102.77 SF
FILL: 0 SF

HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

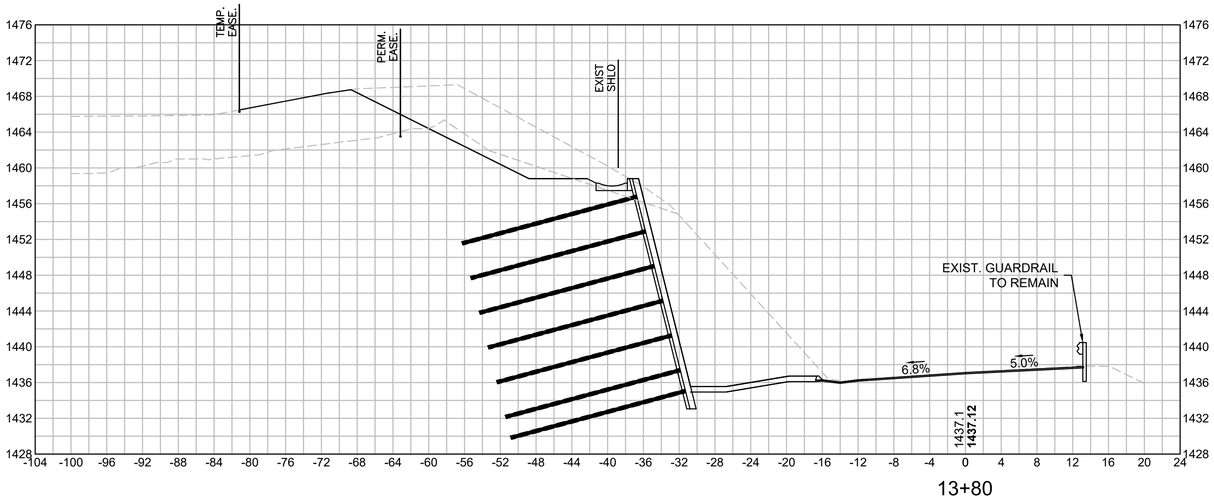
SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:02 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	41	51
PROJECT FILE NO.	609506		

CROSS SECTIONS - ROUTE 8
SHEET 7 OF 17

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:03 PM



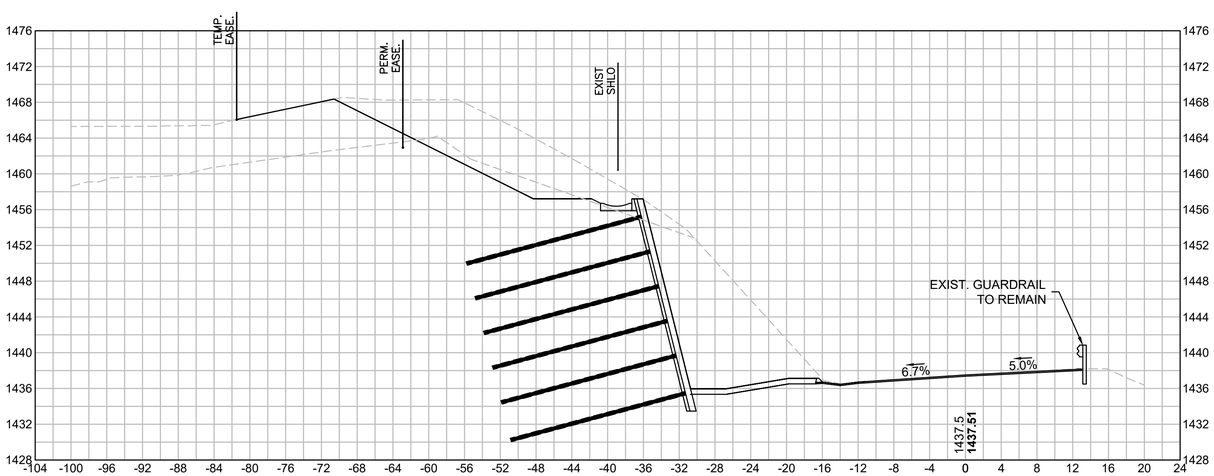
13+80

ROCK CUT:

CUT: 251.94 SF
FILL: 0 SF

EARTH EXCAVATION:

CUT: 91.06 SF
FILL: 0 SF



13+70

ROCK CUT:

CUT: 253.57 SF
FILL: 0 SF

EARTH EXCAVATION:

CUT: 99.04 SF
FILL: 0 SF

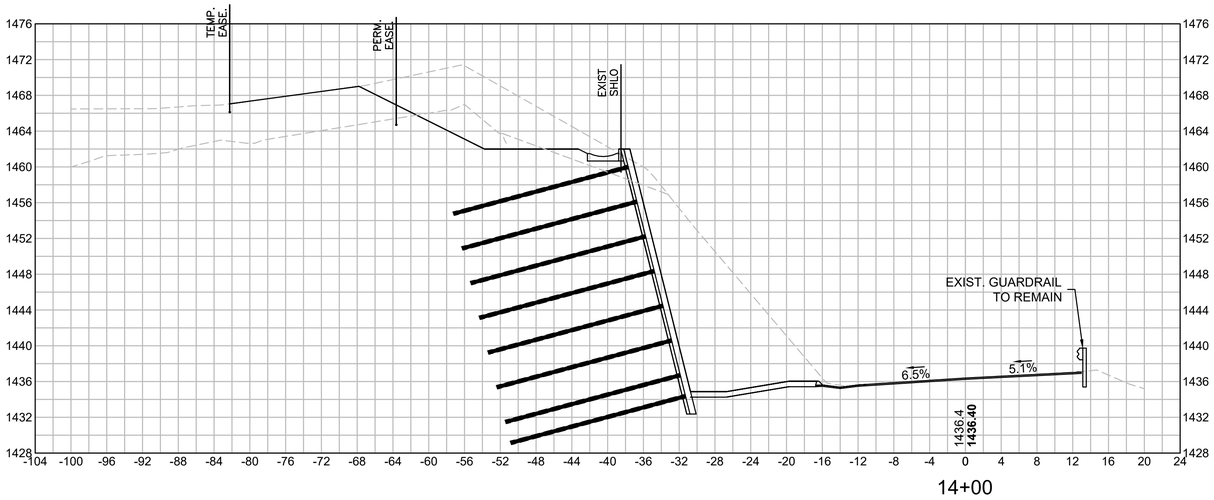
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	42	51
PROJECT FILE NO.	609506		

CROSS SECTIONS - ROUTE 8
SHEET 8 OF 17

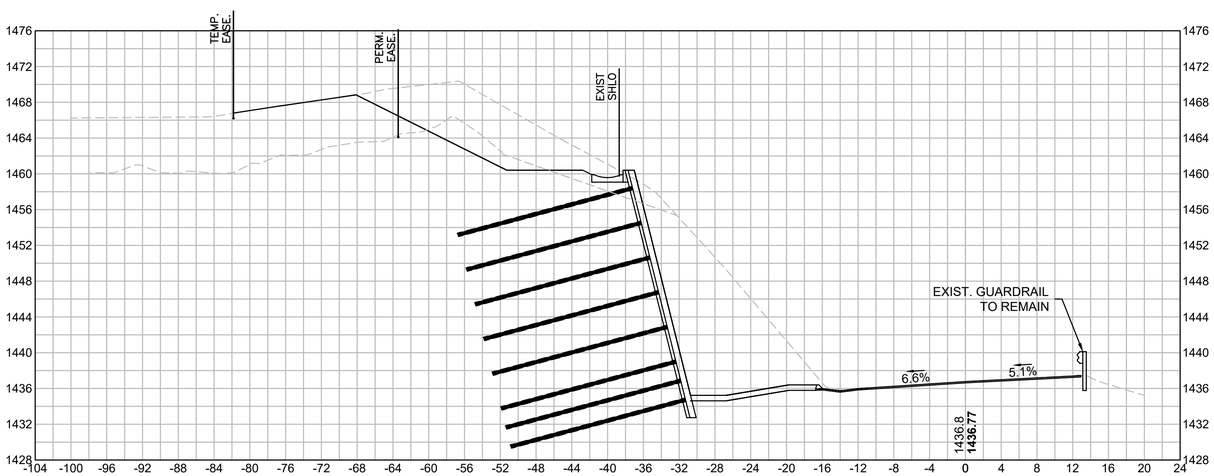
SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:03 PM



14+00

ROCK CUT:
CUT: 275.70 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 98.98 SF
FILL: 0 SF



13+90

ROCK CUT:
CUT: 268.89 SF
FILL: 0 SF

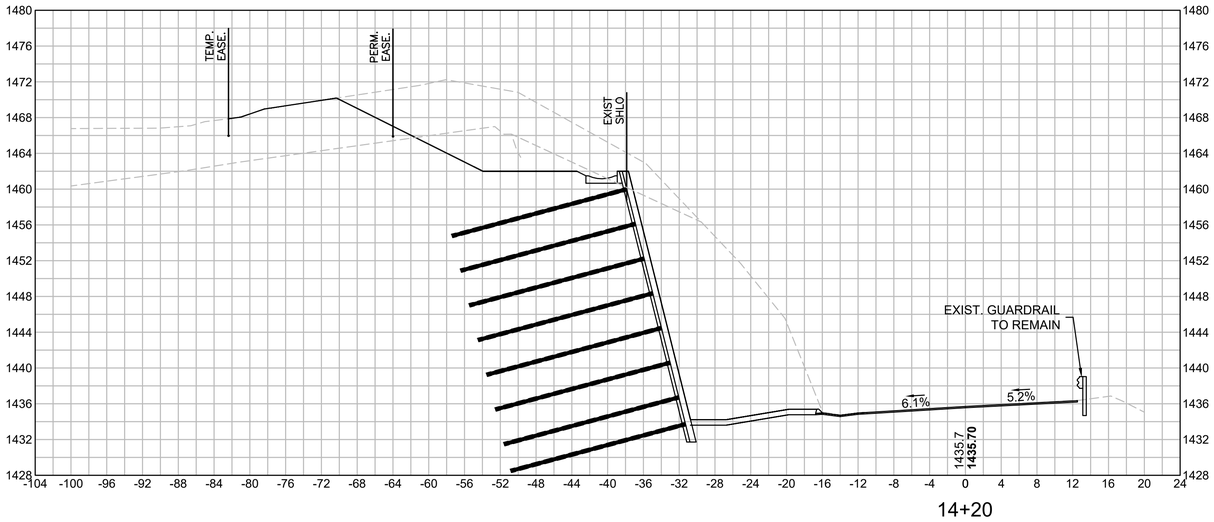
EARTH EXCAVATION:
CUT: 95.45 SF
FILL: 0 SF

HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

BECKET
MAIN STREET/ROUTE 8

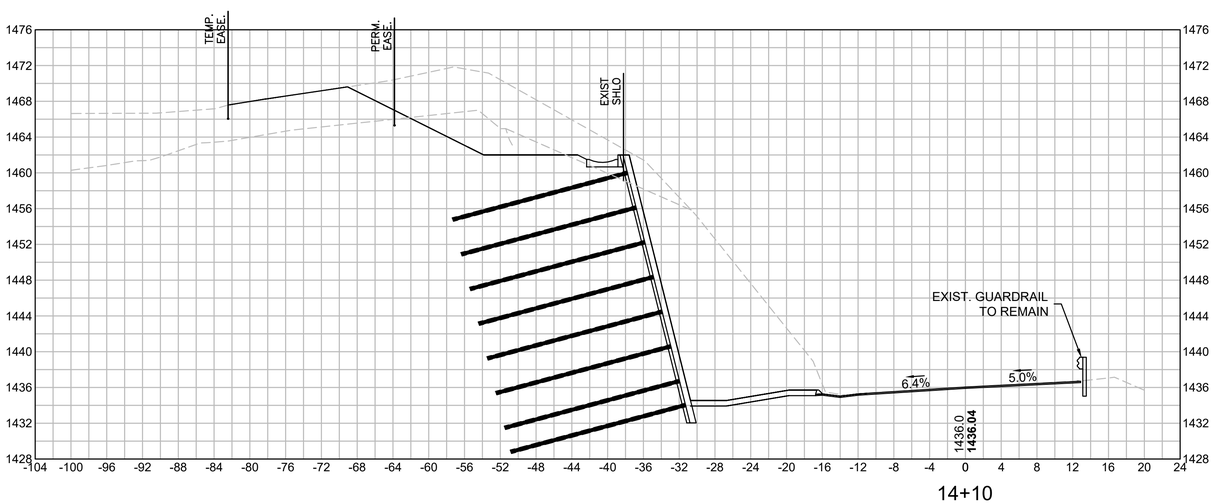
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	43	51
PROJECT FILE NO.	609506		

CROSS SECTIONS - ROUTE 8
SHEET 9 OF 17



ROCK CUT:
CUT: 389.50 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 141.50 SF
FILL: 0 SF



ROCK CUT:
CUT: 333.12 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 117.40 SF
FILL: 0 SF

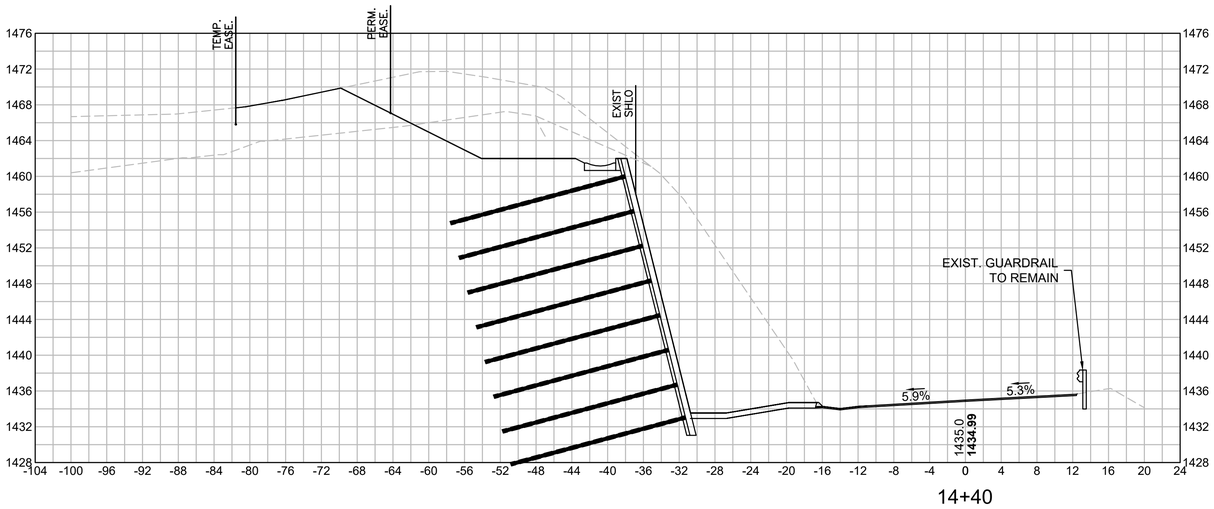
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:03 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	44	51
PROJECT FILE NO.	609506		

CROSS SECTIONS - ROUTE 8
SHEET 10 OF 17

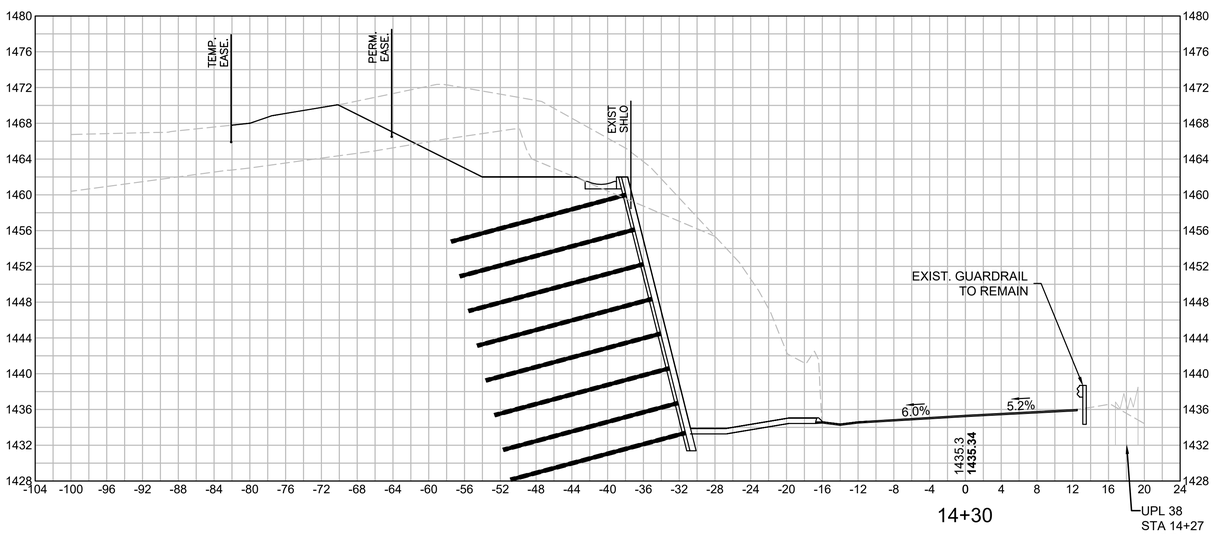


ROCK CUT:

CUT: 368.05 SF
FILL: 0 SF

EARTH EXCAVATION:

CUT: 118.60 SF
FILL: 0 SF



ROCK CUT:

CUT: 411.02 SF
FILL: 0 SF

EARTH EXCAVATION:

CUT: 150.08 SF
FILL: 0 SF

HOR. SCALE IN FEET

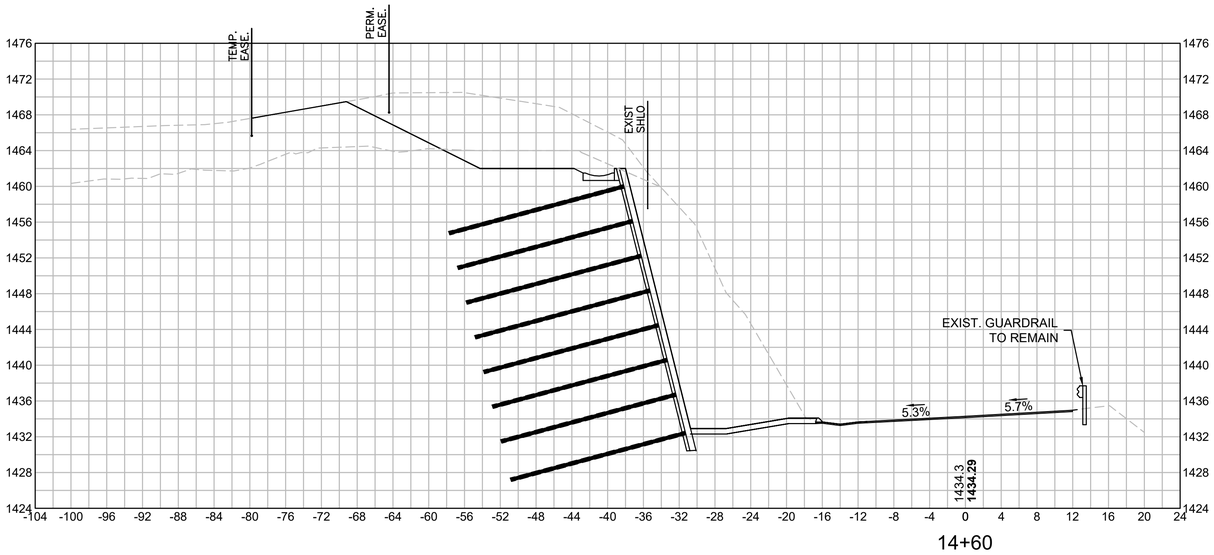
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:03 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	45	51
PROJECT FILE NO.	609506		

CROSS SECTIONS - ROUTE 8
SHEET 11 OF 17

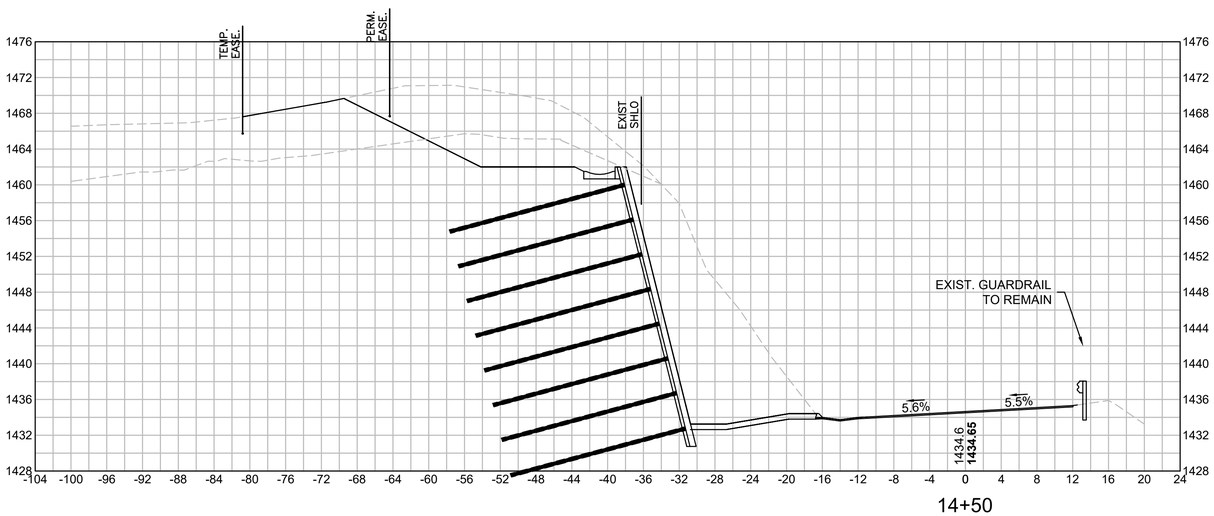


ROCK CUT:

CUT: 318.41 SF
FILL: 0 SF

EARTH EXCAVATION:

CUT: 142.00 SF
FILL: 0 SF



ROCK CUT:

CUT: 332.74 SF
FILL: 0 SF

EARTH EXCAVATION:

CUT: 123.80 SF
FILL: 0 SF

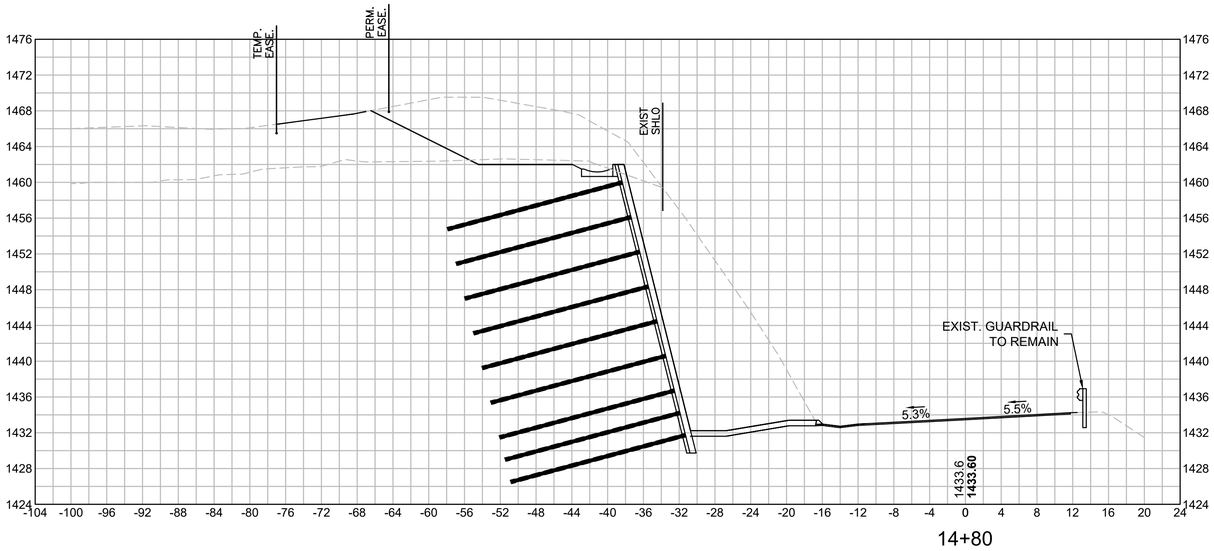
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:03 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	46	51
PROJECT FILE NO.	609506		

CROSS SECTIONS - ROUTE 8
SHEET 12 OF 17



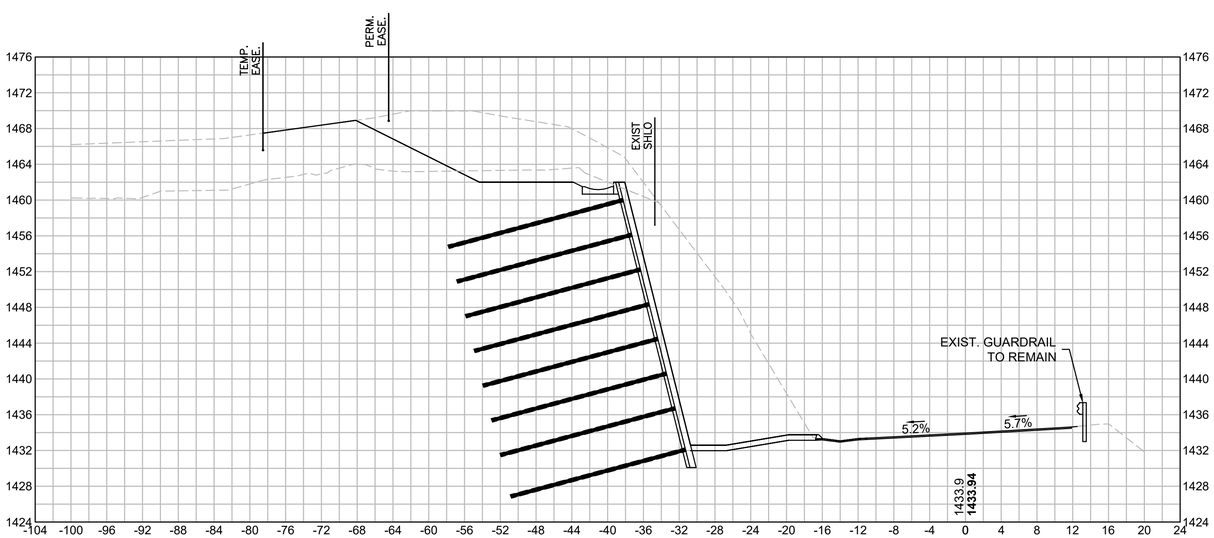
14+80

ROCK CUT:

CUT: 311.53 SF
FILL: 0 SF

EARTH EXCAVATION:

CUT: 143.40
FILL: 0 SF



14+70

ROCK CUT:

CUT: 314.14 SF
FILL: 0 SF

EARTH EXCAVATION:

CUT: 141.70 SF
FILL: 0 SF

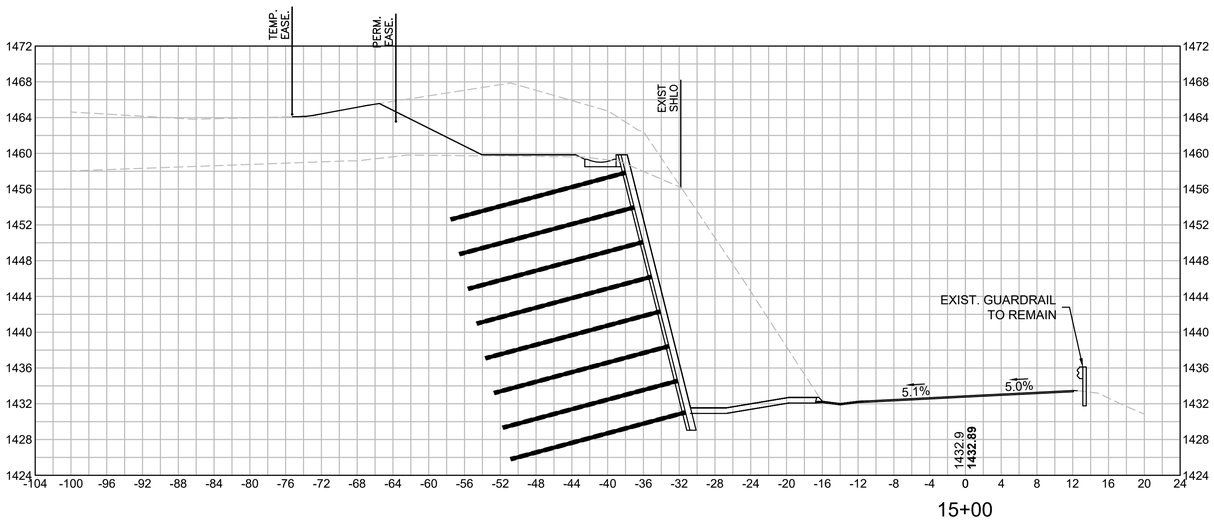
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:03 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	47	51
PROJECT FILE NO.	609506		

CROSS SECTIONS - ROUTE 8
SHEET 13 OF 17



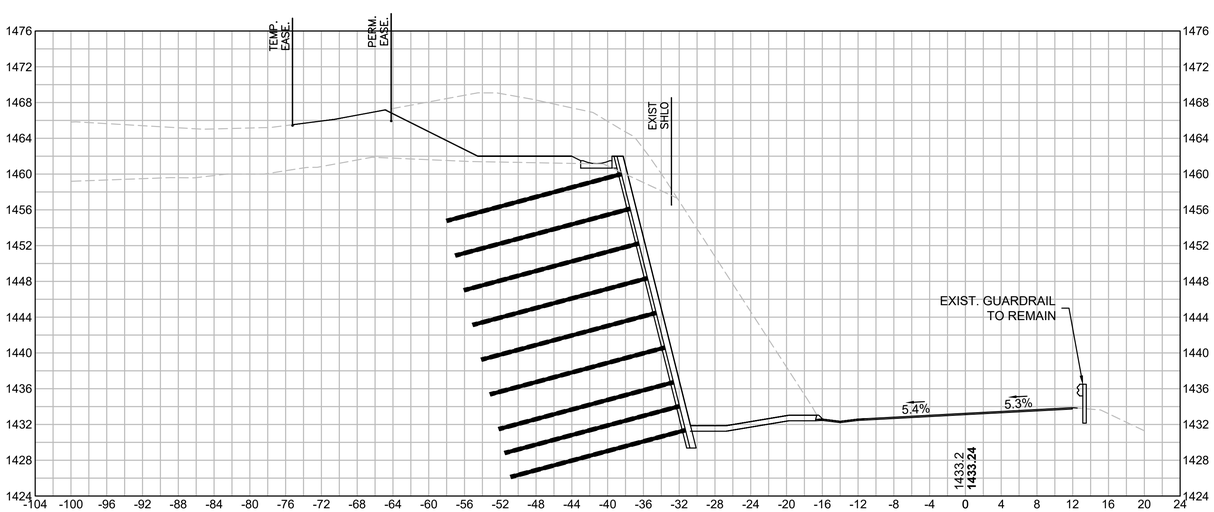
15+00

ROCK CUT:

CUT: 293.89 SF

EARTH EXCAVATION:

CUT: 165.20 SF



14+90

ROCK CUT:

CUT: 300.92 SF

EARTH EXCAVATION:

CUT: 142.20 SF

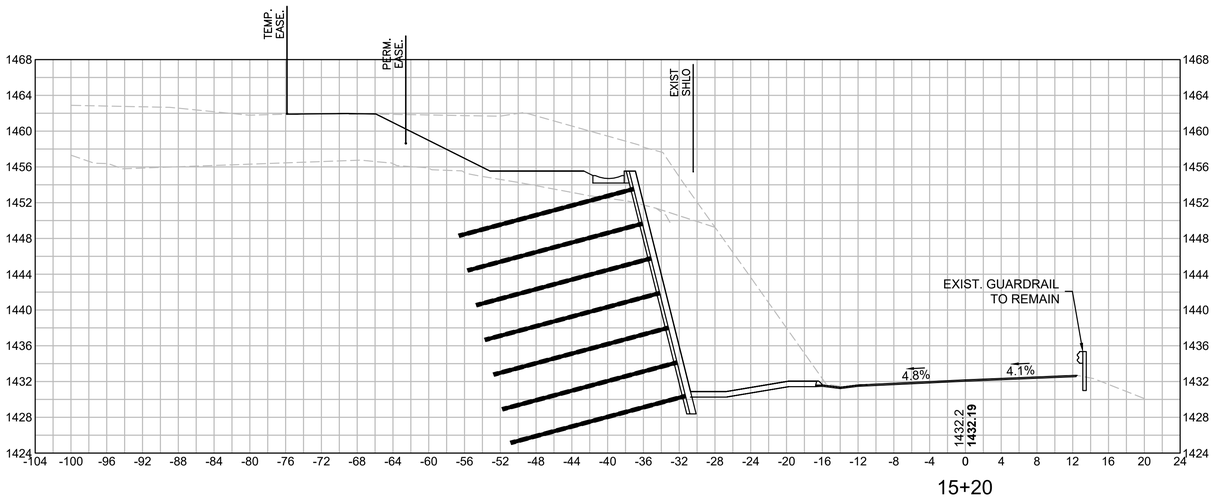
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:03 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	48	51
PROJECT FILE NO.	609506		

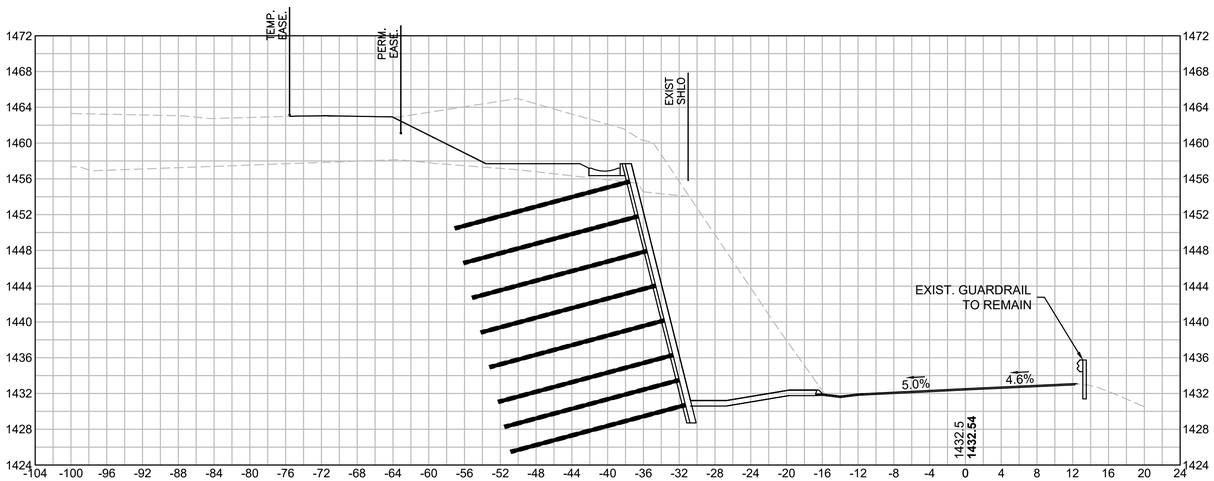
CROSS SECTIONS - ROUTE 8
SHEET 14 OF 17



15+20

ROCK CUT:
CUT: 242.53 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 171.40 SF
FILL: 0 SF



15+10

ROCK CUT:
CUT: 268.22 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 159.20 SF
FILL: 0 SF

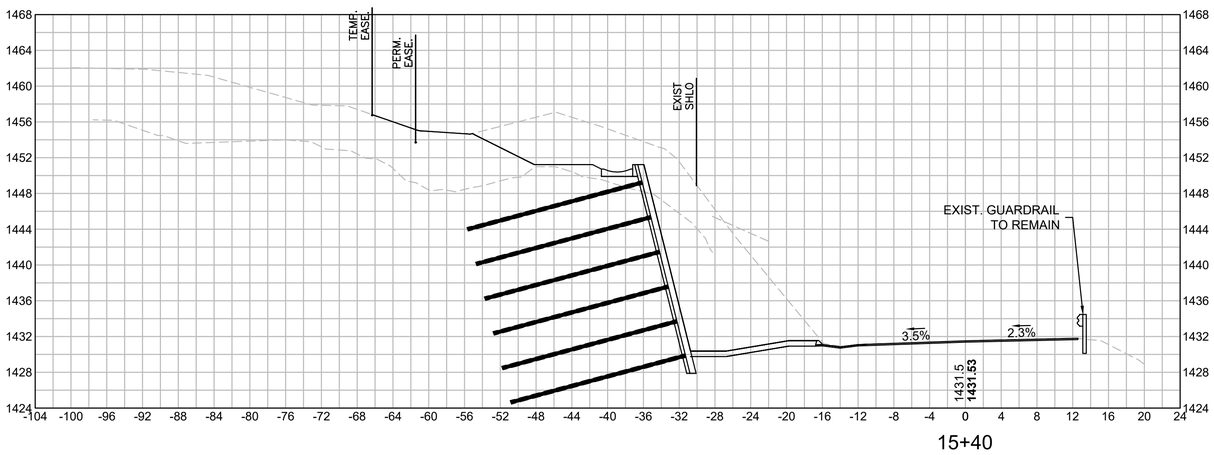
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:04 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	49	51
PROJECT FILE NO.	609506		

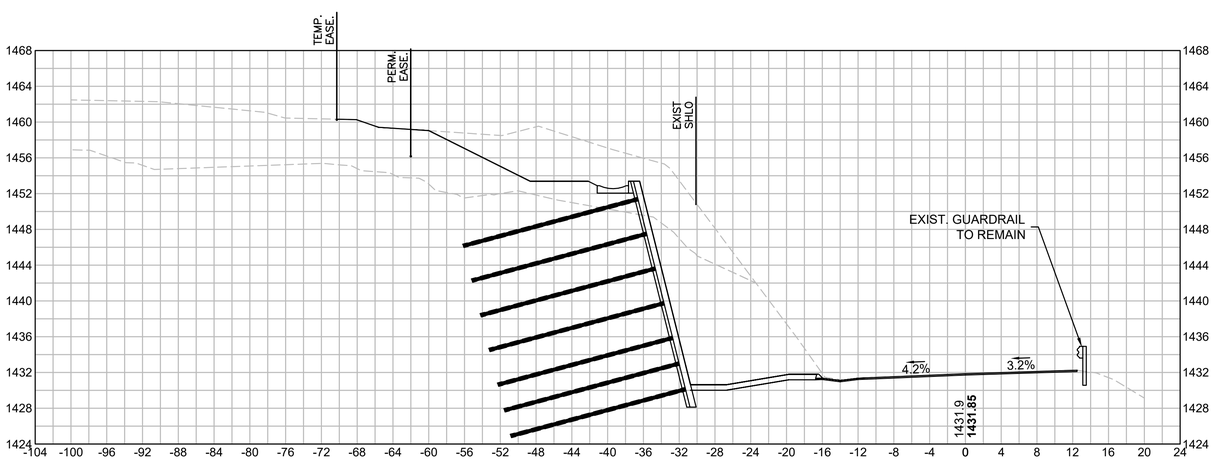
CROSS SECTIONS - ROUTE 8
SHEET 15 OF 17



15+40

ROCK CUT:
CUT: 173.91 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 131.20 SF
FILL: 0 SF



15+30

ROCK CUT:
CUT: 202.59 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 145.40 SF
FILL: 0 SF

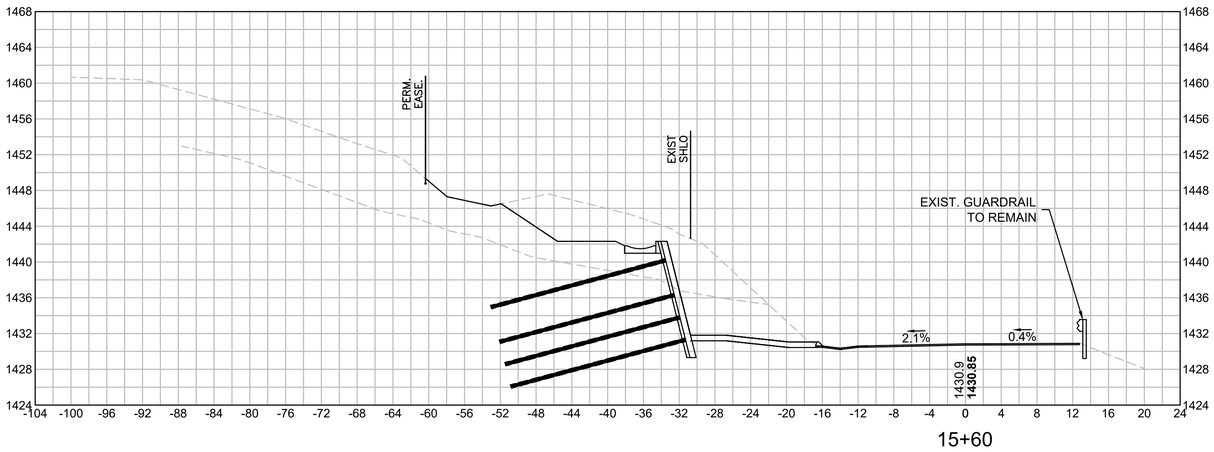
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:04 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	50	51
PROJECT FILE NO.	609506		

CROSS SECTIONS - ROUTE 8
SHEET 16 OF 17



15+60

ROCK CUT:

CUT: 63.25 SF
FILL: 0 SF

EARTH EXCAVATION:

CUT: 113.85 SF
FILL: 0 SF

15+50

ROCK CUT:

CUT: 127.51 SF
FILL: 0 SF

EARTH EXCAVATION:

CUT: 118.49 SF
FILL: 0 SF

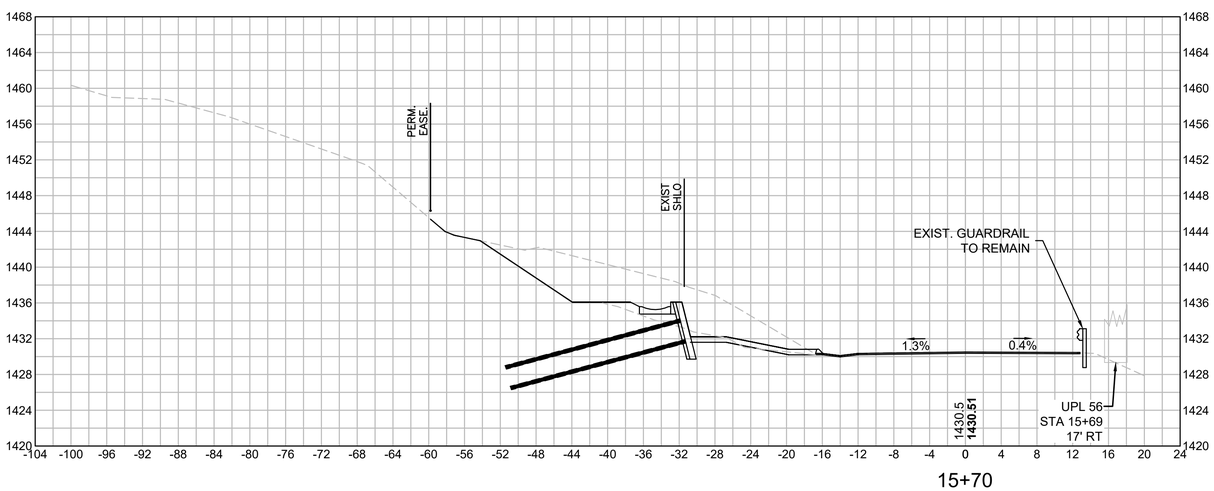
HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:04 PM

BECKET
MAIN STREET/ROUTE 8

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	PRC(PRC80)-004S(013)X	51	51
PROJECT FILE NO.	609506		

CROSS SECTIONS - ROUTE 8
SHEET 17 OF 17



ROCK CUT:
CUT: 32.49 SF
FILL: 0 SF

EARTH EXCAVATION:
CUT: 133.08 SF
FILL: 0 SF

HOR. SCALE IN FEET
8 0 8 16
8 0 8 16
VER. SCALE IN FEET

SHEET 17 OF 17.DWG Plotted on 6-Jul-2026 5:04 PM