

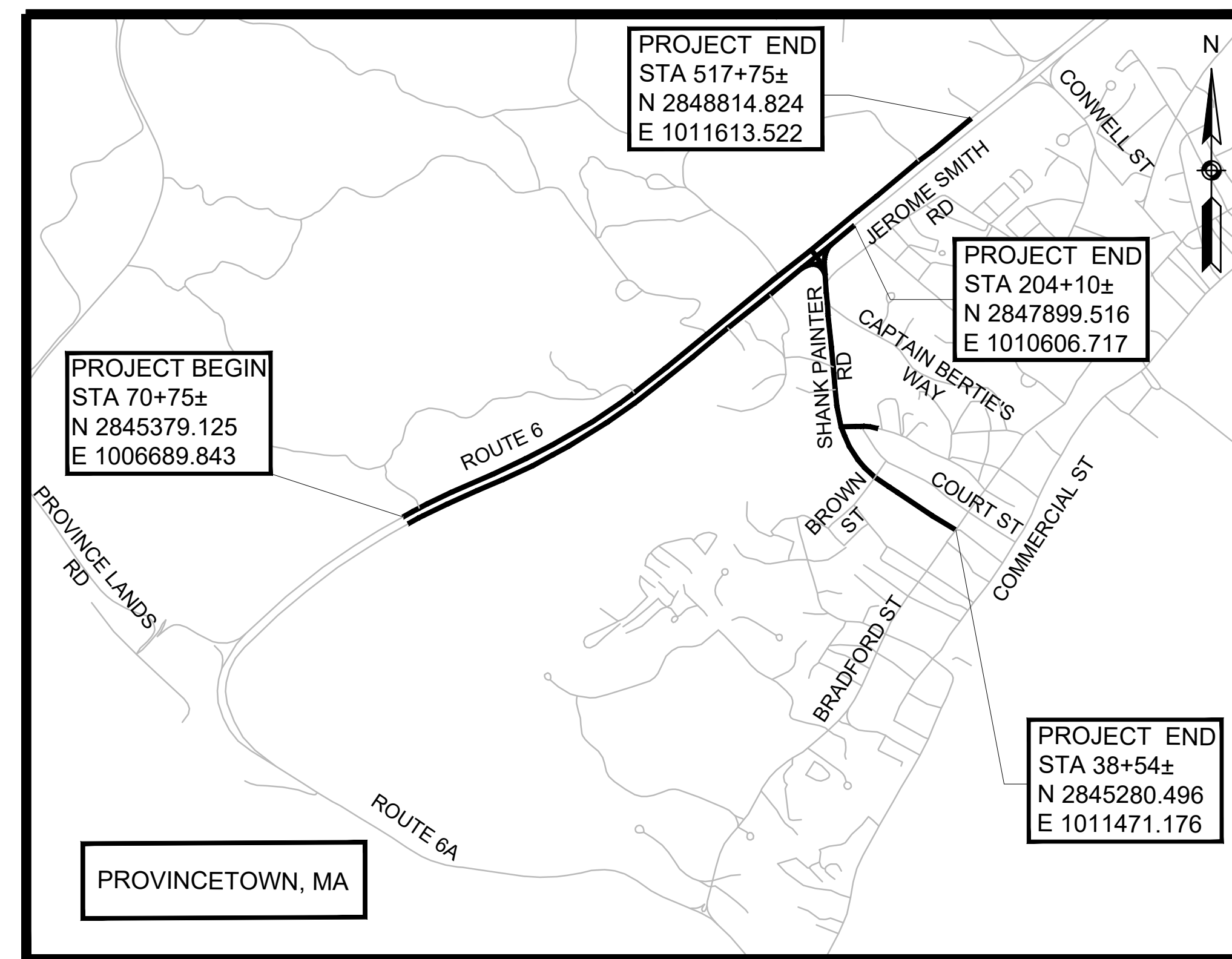
MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

PLAN AND PROFILE OF SHANK PAINTER ROAD AND ROUTE 6

IN THE TOWN OF PROVINCETOWN BARNSTABLE COUNTY

FEDERAL AID PROJECT NO.

75% SUBMITTAL



LENGTH OF PROJECT
ROUTE 6 = 6562± FEET = 1.24 MILES
SHANK PAINTER ROAD = 2925± FEET = 0.55 MILES

PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	001	293
PROJECT FILE NO. 608744			

TITLE SHEET & INDEX

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 2024, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 1996 CONSTRUCTION AND TRAFFIC STANDARD DETAILS (AS RELATES TO TRAFFIC STANDARD DETAILS ONLY), MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 2023 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), MASSACHUSETTS AMENDMENTS TO THE 2009 MUTCD AND THE STANDARD MUNICIPAL TRAFFIC CODE, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING; THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

INDEX

SHEET NO.	DESCRIPTION
001	TITLE SHEET & INDEX
002	LEGEND & ABBREVIATIONS
003	KEY PLAN & BORING LOCATIONS
004-006	GENERAL NOTES & BORING LOGS
007-010	TYPICAL SECTIONS
011-023	SURVEY CONTROL PLANS - ROUTE 6
024-029	SURVEY CONTROL PLANS - SHANK PAINTER ROAD
030-042	CONSTRUCTION PLANS - ROUTE 6
043-048	CONSTRUCTION PLANS - SHANK PAINTER ROAD
049-055	PROFILE - ROUTE 6
056-061	PROFILE - ROUTE 6 - PEDESTRIAN AND BIKE PATH
062-067	PROFILE - SHANK PAINTER ROAD
068-069	PROFILES - SIDE STREETS
071-083	CURB TIE PLANS - ROUTE 6
084-089	CURB TIE PLANS - SHANK PAINTER ROAD
090-102	GRADING PLANS - ROUTE 6
103-108	GRADING PLANS - SHANK PAINTER ROAD
109-116	TRAFFIC SIGN & PAVEMENT MARKING PLANS - ROUTE 6
117-119	TRAFFIC SIGN & PAVEMENT MARKING PLANS - SHANK PAINTER ROAD
120-121	TRAFFIC SIGN SUMMARY
122-124	TEMPORARY TRAFFIC CONTROL PLANS
126-128	CONSTRUCTION STAGING PLANS
130-142	UTILITY PLANS - ROUTE 6
143-148	UTILITY PLANS - SHANK PAINTER ROAD
153-156	LIGHTING PLAN AND DETAILS
158-160	RETAINING WALL PROFILES & DETAILS
161-162	CONSTRUCTION DETAILS
164-167	PEDESTRIAN CURB RAMP DETAILS
168-171	DRIVEWAY DETAILS
172-186	PUMP STATION PLANS AND DETAILS
187-219	CROSS SECTIONS - ROUTE 6 COMBINED
220-251	CROSS SECTIONS - PEDESTRIAN AND BIKE PATH
252-254	CROSS SECTIONS - ROUTE 6 EASTBOUND
255-257	CROSS SECTIONS - ROUTE 6 WESTBOUND
258-263	CROSS SECTIONS - ROUNDABOUT
264-287	CROSS SECTIONS - SHANK PAINTER ROAD
288-293	CROSS SECTIONS - COURT STREET & WINTHROP STREET

DESIGN DESIGNATION

DESIGN SPEED	30 MPH	45 MPH
ADT (2019)	8,889	11,340
ADT (2029)	9,343	11,920
K	8.1%	8.0%
D	55% NB	55% EB
T (PEAK HOUR)	2.6%	2.0%
T (AVERAGE DAY)	1.8%	1.0%
DHV	760	956
DDHV	415	525
FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL	URBAN PRINCIPAL ARTERIAL

SHANK PAINTER ROAD

ROUTE 6

DATE	DESCRIPTION	REV #

ENVIRONMENTAL PARTNERS
— An Apex Company —

massDOT
Massachusetts Department of Transportation
Highway Division

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER DATE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

APPROVED:

DIVISION ADMINISTRATOR DATE

HIGHWAY ADMINISTRATOR DATE

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	JERSEY BARRIER
[Symbol]	[Symbol]	CATCH BASIN
[Symbol]	[Symbol]	CATCH BASIN CURB INLET
[Symbol]	[Symbol]	FLAG POLE
[Symbol]	[Symbol]	GAS PUMP
[Symbol]	[Symbol]	MAIL BOX
[Symbol]	[Symbol]	POST SQUARE
[Symbol]	[Symbol]	POST CIRCULAR
[Symbol]	[Symbol]	WELL
[Symbol]	[Symbol]	ELECTRIC HANDHOLE
[Symbol]	[Symbol]	FENCE GATE POST
[Symbol]	[Symbol]	GAS GATE
[Symbol]	[Symbol]	BORING HOLE
[Symbol]	[Symbol]	MONITORING WELL
[Symbol]	[Symbol]	TEST PIT
[Symbol]	[Symbol]	HYDRANT
[Symbol]	[Symbol]	LIGHT POLE
[Symbol]	[Symbol]	COUNTY BOUND
[Symbol]	[Symbol]	GPS POINT
[Symbol]	[Symbol]	CABLE MANHOLE
[Symbol]	[Symbol]	DRAINAGE MANHOLE
[Symbol]	[Symbol]	ELECTRIC MANHOLE
[Symbol]	[Symbol]	GAS MANHOLE
[Symbol]	[Symbol]	MISC MANHOLE
[Symbol]	[Symbol]	SEWER MANHOLE
[Symbol]	[Symbol]	TELEPHONE MANHOLE
[Symbol]	[Symbol]	WATER MANHOLE
[Symbol]	[Symbol]	MASSACHUSETTS HIGHWAY BOUND
[Symbol]	[Symbol]	MONUMENT
[Symbol]	[Symbol]	STONE BOUND
[Symbol]	[Symbol]	TOWN OR CITY BOUND
[Symbol]	[Symbol]	TRAVERSE OR TRIANGULATION STATION
[Symbol]	[Symbol]	TROLLEY POLE OR GUY POLE
[Symbol]	[Symbol]	TRANSMISSION POLE
[Symbol]	[Symbol]	UTILITY POLE W/ FIREBOX
[Symbol]	[Symbol]	UTILITY POLE WITH DOUBLE LIGHT
[Symbol]	[Symbol]	UTILITY POLE W / 1 LIGHT
[Symbol]	[Symbol]	UTILITY POLE
[Symbol]	[Symbol]	BUSH
[Symbol]	[Symbol]	TREE
[Symbol]	[Symbol]	STUMP
[Symbol]	[Symbol]	SWAMP / MARSH
[Symbol]	[Symbol]	WATER GATE
[Symbol]	[Symbol]	PARKING METER
[Symbol]	[Symbol]	OVERHEAD CABLE/WIRE
[Symbol]	[Symbol]	CURBING
[Symbol]	[Symbol]	CONTOURS (ON-THE-GROUND SURVEY DATA)
[Symbol]	[Symbol]	CONTOURS (PHOTOGRAMMETRIC DATA)
[Symbol]	[Symbol]	UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
[Symbol]	[Symbol]	UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
[Symbol]	[Symbol]	UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
[Symbol]	[Symbol]	UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
[Symbol]	[Symbol]	UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
[Symbol]	[Symbol]	UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
[Symbol]	[Symbol]	BALANCED STONE WALL
[Symbol]	[Symbol]	GUARD RAIL - STEEL POSTS
[Symbol]	[Symbol]	GUARD RAIL - WOOD POSTS
[Symbol]	[Symbol]	GUARD RAIL - DOUBLE FACE - STEEL POSTS
[Symbol]	[Symbol]	GUARD RAIL - DOUBLE FACE - WOOD POSTS
[Symbol]	[Symbol]	CHAIN LINK OR METAL FENCE
[Symbol]	[Symbol]	WOOD FENCE
[Symbol]	[Symbol]	SEDIMENT CONTROL BARRIER
[Symbol]	[Symbol]	TREE LINE
[Symbol]	[Symbol]	SAWCUT LINE
[Symbol]	[Symbol]	TOP OR BOTTOM OF SLOPE
[Symbol]	[Symbol]	LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
[Symbol]	[Symbol]	BANK OF RIVER OR STREAM
[Symbol]	[Symbol]	BORDER OF WETLAND
[Symbol]	[Symbol]	100 FT WETLAND BUFFER
[Symbol]	[Symbol]	200 FT RIVERFRONT BUFFER
[Symbol]	[Symbol]	STATE HIGHWAY LAYOUT
[Symbol]	[Symbol]	TOWN OR CITY LAYOUT
[Symbol]	[Symbol]	COUNTY LAYOUT
[Symbol]	[Symbol]	RAILROAD SIDELINE
[Symbol]	[Symbol]	TOWN OR CITY BOUNDARY LINE
[Symbol]	[Symbol]	PROPERTY LINE OR APPROXIMATE PROPERTY LINE
[Symbol]	[Symbol]	EASEMENT

TRAFFIC SYMBOLS

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

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	PAVEMENT ARROW - WHITE
[Symbol]	[Symbol]	LEGEND "ONLY" - WHITE
[Symbol]	[Symbol]	STOP LINE
[Symbol]	[Symbol]	CROSSWALK
[Symbol]	[Symbol]	SOLID WHITE LINE
[Symbol]	[Symbol]	SOLID YELLOW LINE
[Symbol]	[Symbol]	BROKEN WHITE LINE (10' LINE SEGMENT WITH 30' GAPS)
[Symbol]	[Symbol]	BROKEN YELLOW LINE (10' LINE SEGMENT WITH 30' GAPS)
[Symbol]	[Symbol]	DOTTED WHITE LINE (3' LINE SEGMENT WITH 9' GAPS)
[Symbol]	[Symbol]	DOTTED YELLOW LINE (3' LINE SEGMENT WITH 9' GAPS)
[Symbol]	[Symbol]	DOTTED WHITE LINE EXTENSION (2' LINE SEGMENT WITH 6' GAPS)
[Symbol]	[Symbol]	DOTTED YELLOW LINE EXTENSION (2' LINE SEGMENT WITH 6' GAPS)
[Symbol]	[Symbol]	12" WIDE DOTTED WHITE ROUNDABOUT ENTRY LINE (2' LINE SEGMENT WITH 2' GAPS)
[Symbol]	[Symbol]	DOUBLE WHITE LINE
[Symbol]	[Symbol]	DOUBLE YELLOW LINE

NOTE: EXCEPT WHERE NOTED ON THE PLANS, ALL PAVEMENT MARKINGS SHALL BE 6 INCHES WIDE. EXCEPTION APPLIES TO PAVEMENT MARKINGS WITHIN THE BICYCLE PATH, WHERE MARKINGS MAY BE 4 INCHES WIDE.

UTILITY COLOR GUIDE

UTILITY	LINE COLOR	EXISTING	PROPOSED
ELECTRIC	RED	[Symbol]	[Symbol]
GAS-OIL-STEAM	BROWN	[Symbol]	[Symbol]
COMMUNICATION / CATV	ORANGE	[Symbol]	[Symbol]
POTABLE WATER	BLUE	[Symbol]	[Symbol]
SEWER	GREEN	[Symbol]	[Symbol]
DRAINAGE	TRADITIONAL GRAYSCALE	[Symbol]	[Symbol]

ABBREVIATIONS

GENERAL		TRAFFIC SIGNAL ABBREVIATIONS	
AADT	ANNUAL AVERAGE DAILY TRAFFIC	CAB	CABINET
ABAN	ABANDON	CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
ADJ	ADJUST	DW	STEADY UPRAISED HAND
APPROX.	APPROXIMATE	FDW	FLASHING UPRAISED HAND
A.C.	ASPHALT CONCRETE	FR	FLASHING CIRCULAR RED
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE	FRL	FLASHING RED LEFT ARROW
BIT.	BITUMINOUS	FRR	FLASHING RED RIGHT ARROW
BC	BOTTOM OF CURB	FY	FLASHING CIRCULAR YELLOW
BD.	BOUND	FYL	FLASHING YELLOW LEFT ARROW
BL	BASELINE	FYR	FLASHING YELLOW RIGHT ARROW
BLDG	BUILDING	G	STEADY CIRCULAR GREEN
BM	BENCHMARK	GL	STEADY GREEN LEFT ARROW
BO	BY OTHERS	GR	STEADY GREEN RIGHT ARROW
BOS	BOTTOM OF SLOPE	GSL	STEADY GREEN SLASH LEFT ARROW
BR.	BRIDGE	GSR	STEADY GREEN SLASH RIGHT ARROW
CB	CATCH BASIN	GV	STEADY GREEN VERTICAL ARROW
CBCI	CATCH BASIN WITH CURB INLET	OL	OVERLAP
CC	CEMENT CONCRETE	PED	PEDESTRIAN
CCM	CEMENT CONCRETE MASONRY	PTZ	PAN, TILT, ZOOM
CEM	CEMENT	R	STEADY CIRCULAR RED
CI	CURB INLET	RL	STEADY RED LEFT ARROW
CIP	CAST IRON PIPE	RR	STEADY RED RIGHT ARROW
CLF	CHAIN LINK FENCE	TR SIG	TRAFFIC SIGNAL
CL	CENTERLINE	TSC	TRAFFIC SIGNAL CONDUIT
CMP	CORRUGATED METAL PIPE	W	STEADY WALKING PERSON
CSP	CORRUGATED STEEL PIPE	Y	STEADY CIRCULAR YELLOW
CO.	COUNTY	YL	STEADY YELLOW LEFT ARROW
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		
GAR	GARAGE		
GD	GROUND		
GG	GAS GATE		
GI	GUTTER INLET		
GIP	GALVANIZED IRON PIPE		
GRAN	GRANITE		
GRAV	GRAVEL		
GRD	GUARD		
HDW	HEADWALL		
HMA	HOT MIX ASPHALT		
HOR	HORIZONTAL		
HYD	HYDRANT		
INV	INVERT		
JCT	JUNCTION		
L	LENGTH OF CURVE		
LB	LEACH BASIN		
LP	LIGHT POLE		
LT	LEFT		
MAX	MAXIMUM		
MB	MAILBOX		
MH	MANHOLE		
MHB	MASSACHUSETTS HIGHWAY BOUND		
MIN	MINIMUM		
NIC	NOT IN CONTRACT		
NO.	NUMBER		
PC	POINT OF CURVATURE		
PCC	POINT OF COMPOUND CURVATURE		
P.G.L.	PROFILE GRADE LINE		
PI	POINT OF INTERSECTION		
POC	POINT ON CURVE		
POT	POINT ON TANGENT		
PRC	POINT OF REVERSE CURVATURE		
PROJ	PROJECT		
PROP	PROPOSED		
PSB	PLANTABLE SOIL BORROW		
PT	POINT OF TANGENCY		
PVC	POINT OF VERTICAL CURVATURE		
PVI	POINT OF VERTICAL INTERSECTION		
PVT	POINT OF VERTICAL TANGENCY		
PVMT	PAVEMENT		
PWW	PAVED WATER WAY		

PROVINCETOWN SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	002	293
PROJECT FILE NO.		608744	

LEGEND & ABBREVIATIONS

ABBREVIATIONS (cont.)

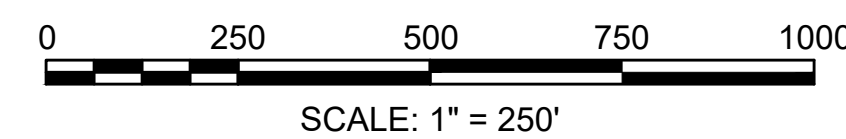
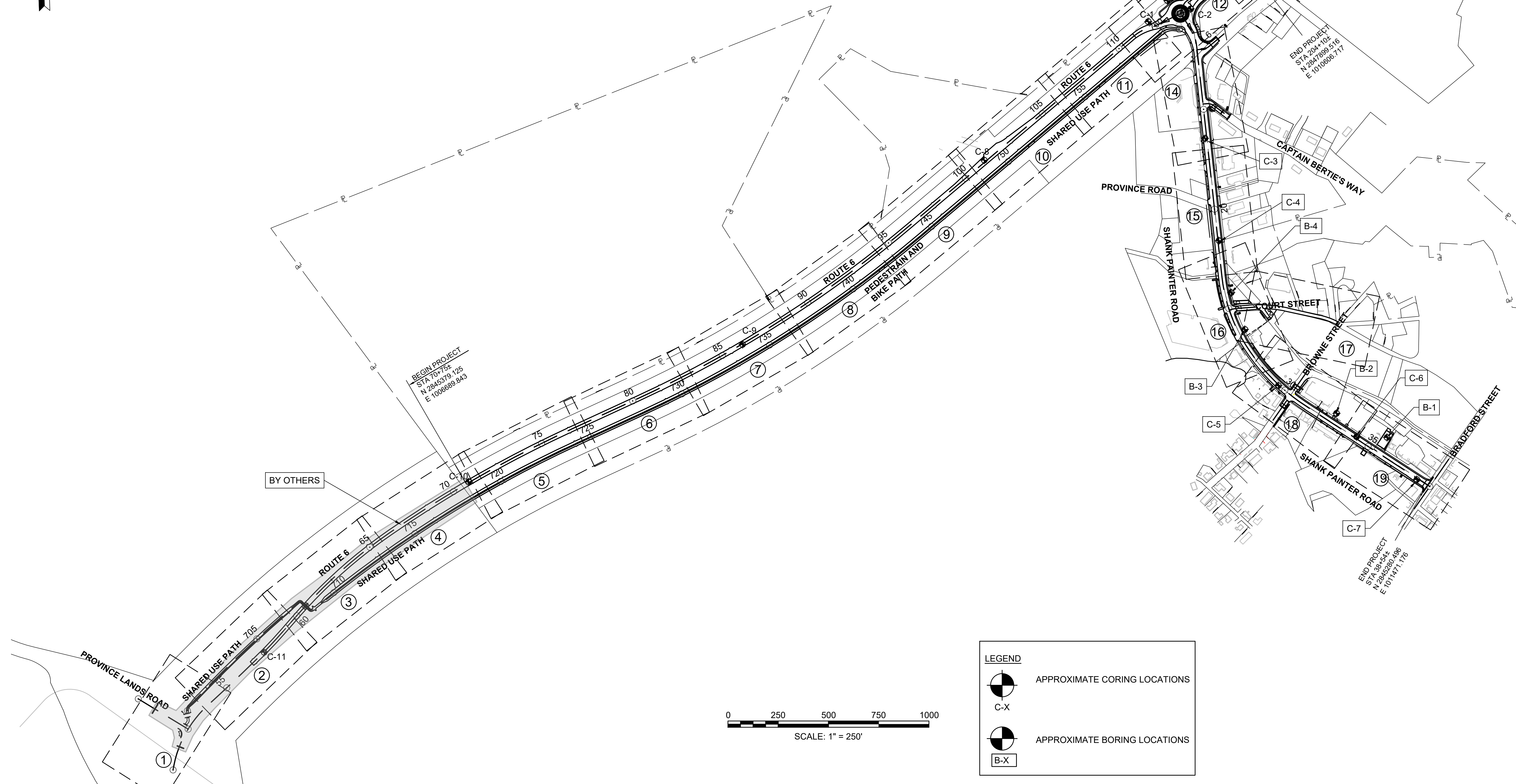
GENERAL	
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD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

**PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	003	293
PROJECT FILE NO.		608744	

KEY PLAN & BORING LOCATIONS

SHEET REFERENCE:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
DRAWING TITLE	DRAWING NUMBER																		
SURVEY CONTROL PLAN	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
CONSTRUCTION PLANS	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
PROFILES - ROUTE 6	49	49	50	50	51	51-52	52	52-53	52-53	53	53	53-55	55	-	-	-	-	-	-
PROFILES - ROUTE 6 - PED. AND BIKE PATH	56	56	56	57	57-58	58	58-59	60	60	60	61	61	-	-	-	-	-	-	-
PROFILES - SHANK PAINTER ROAD	-	-	-	-	-	-	-	-	-	-	-	-	-	62	63	-	63-64	65-66	66-67
PROFILES - SIDE STREET	-	-	-	-	-	-	-	-	-	-	-	-	-	68	-	69	68	69	-
CURB TIE PLANS	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89
GRADING PLANS	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108
TRAFFIC SIGN AND PAVEMENT MARKING PLANS	109	110	110	111	111	112	112	113	113	114	114	115	116	117	117	117	117-118	118	119
UTILITY PLANS	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148



LEGEND

- APPROXIMATE CORING LOCATIONS
- C-X
- APPROXIMATE BORING LOCATIONS
- B-X

PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	004	293
PROJECT FILE NO.		608744	

GENERAL NOTES

SURVEY NOTES:

1. THE BOUNDARY, RIGHT-OF-WAY AND TOPOGRAPHIC INFORMATION ALONG SHANK PAINTER ROAD AND ITS INTERSECTION WITH ROUTE 6 SHOWN HEREON IS BASED ON AN ON-THE-GROUND SURVEY PERFORMED BY ALLEN & MAJOR ASSOCIATES, INC. BETWEEN SEPTEMBER AND OCTOBER 2018. ADDITIONAL SURVEY ALONG ROUTE 6 WAS PERFORMED BY JC ENGINEERING BETWEEN NOVEMBER 2018 AND DECEMBER 2018 AND INCORPORATED INTO THE BASE PLAN.
2. BEARINGS AND DISTANCES AND THE COORDINATES THEY ARE BASED ON SHOWN ON THIS PLAN ARE IN U.S. SURVEY FEET IN THE MA. STATE PLANE COORDINATE SYSTEM REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), CORS ADJUSTMENT (NA2011/GEOID 12A) AS DETERMINED BY GPS OBSERVATIONS PERFORMED IN NOVEMBER OF 2016 UTILIZING MAINE TECHNICAL SOURCE RTK GPS NETWORK.
3. THE VERTICAL DATUM FOR THIS PROJECT IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), CORS ADJUSTMENT (NA2011/GEOID 12A) AS DETERMINED BY REDUNDANT GPS OBSERVATIONS PERFORMED IN NOVEMBER OF 2016 UTILIZING THE MAINE TECHNICAL SOURCE RTK GPS NETWORK.
4. THE ACCURACY OF MEASURED PIPE INVERTS AND PIPE SIZES IS SUBJECT TO FIELD CONDITIONS, THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS AND OTHER CONDITIONS.
5. SUBSURFACE UTILITY ENGINEERING LEVEL B WAS PERFORMED BY FELDMAN GEOSPATIAL BETWEEN FEBRUARY 2024 AND MARCH 2024.

GENERAL CONSTRUCTION NOTES:

1. CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE FOLLOWING: THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 2024, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, TOWN OF PROVINCETOWN DEPARTMENT OF PUBLIC WORKS CONSTRUCTION STANDARDS DATED APRIL, 2016, THE 1996 CONSTRUCTION AND TRAFFIC STANDARD DETAILS (AS RELATES TO TRAFFIC STANDARD DETAILS ONLY), MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR AND HIGHWAYS DATED 2023 AND MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.
2. IT IS THE INTENT OF THE DESIGN TO PROVIDE A MINIMUM CONSTRUCTED SIDEWALK WIDTH FOR A PATH OF TRAVEL PAST ALL OBSTRUCTIONS OF 3'-0" CLEARANCE FOR HANDICAP ACCESSIBILITY (IN ACCORDANCE WITH THE LATEST A.D.A. AND MASSDOT REQUIREMENTS), THE CONTRACTOR SHALL VERIFY THAT ALL POTENTIAL OBSTRUCTIONS HAVE BEEN ADDRESSED IN THE PLANS INCLUDING BUT NOT LIMITED TO FOUNDATIONS, SIGNS, MAILBOXES, UTILITY POLES, AND HYDRANTS SO THEY ARE LOCATED TO PROVIDE THIS MINIMUM PATH OF TRAVEL CLEARANCE AND A MINIMUM 18" TYPICAL CLEARANCE TO THE FACE OF CURB OR 12" MIN. CLEARANCE WHERE 18" IS NOT FEASIBLE OR PRACTICAL. NO UTILITY POLES OR OBSTRUCTIONS ARE PERMITTED WITHIN WHEELCHAIR RAMPS.
3. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED HEREIN USING NEW MATERIALS OR WHERE APPLICABLE, REUSING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R). ALL OTHER MATERIALS SHALL BE "REMOVED AND DISCARDED" (R&D) OR DISPOSED OF OFF SITE WITH THE EXCEPTION OF MATERIALS LABELED AS "REMOVED AND STACKED" (R&S) WHICH SHALL BE TRANSPORTED AND AND STACKED AT A LOCATION DESIGNATED BY THE TOWN AND OR ENGINEER.
4. MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, PAY ALL FEES INCLUDING POLICE DETAILS AND POST ALL BONDS, IF NECESSARY, ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE OWNER AND THE ENGINEER.
5. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES, PRIVATE PROPERTY OR WITHIN 100 FEET OF WETLANDS, UNLESS DIRECTED TO DO SO BY THE CONTRACT DOCUMENTS.
6. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL PERFORM HIGH QUALITY AUDIO & VIDEO RECORDING OF THE EXISTING PRE-CONSTRUCTION CONDITION OF THE PROJECT AREA AND SUBMIT TO THE TOWN FOR REVIEW AND APPROVAL. (SEE SPECIAL PROVISIONS FOR SCOPE & REQUIREMENT DETAILS, THE COST FOR THIS TASK SHALL BE CONSIDERED INCIDENTAL TO THIS PROJECT. NO PAYMENT SHALL BE REQUESTED TO THE TOWN AND OR ENGINEER.)
7. HIGH QUALITY AUDIO & VIDEO RECORDING SHALL BE SUBMIT TO THE ENGINEER TO REVIEW AND APPROVAL AT LEAST 2 WEEKS PRIOR TO THE COMMENCEMENT OF ANY WORK.
8. ALL EXISTING CONDITIONS SHOWN ARE APPROXIMATE AND ARE BASED ON THE BEST INFORMATION AVAILABLE. PRIOR TO THE START CONSTRUCTION VERIFY THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLING ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.
9. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.
10. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS INDICATED ON THE DRAWINGS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHEREVER POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY IN THE TOWN, AND "DIGSAFE" (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK IN PREVIOUSLY UNALTERED AREAS TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE CONTRACTOR MUST RESOLVE CONFLICTS BETWEEN THE PROPOSED UTILITIES AND FIELD-LOCATED UTILITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED, INCOMPLETELY OR INACCURATELY SHOWN. THE CONTRACTOR MUST MAINTAIN ACCURATE RECORDS OF THE LOCATION AND ELEVATION OF ALL WORK INSTALLED AND EXISTING UTILITIES FOUND DURING CONSTRUCTION FOR THE PREPARATION OF THE AS-BUILT PLAN.
11. THE CONTRACTOR SHALL COORDINATE ALL ARRANGEMENTS FOR THE ALTERATION AND OR ADJUSTMENT OF ELECTRIC, TELEPHONE, GAS AND ANY OTHER PRIVATE UTILITY.
12. 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 TOWN AND OR ENGINEER FOR RESOLUTION OF THE CONFLICT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING OR REMODELING ALL DRAINAGE, WATER, OR SEWER STRUCTURES TO THE FINISHED ELEVATION, WITHIN THE LIMITS OF THE PROJECT, UNLESS OTHERWISE NOTED.
14. THE CONTRACTOR SHALL PERFORM TEST PITS AT LOCATIONS SHOWN ON PLANS AND AS DIRECTED BY THE TOWN AND OR ENGINEER AT THE STARTING OF THE PROJECT TO DETERMINE ANY POTENTIAL UTILITY CONFLICT IN ADVANCE SO ANY CONFLICT CAN BE RESOLVED IN TIME WITH THE TOWN AND/OR ENGINEER FOR ALTERNATIVES.
15. THE CONTRACTOR MUST MAINTAIN ALL EXISTING UTILITIES IN WORKING ORDER AND FREE FROM DAMAGE DURING THE ENTIRE DURATION OF THE PROJECT. REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ALL COST RELATED TO THE REPAIR OF UTILITIES. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES MUST BE DONE BY HAND.

GENERAL NOTES CONTINUED:

16. COORDINATE ALL TRENCHING WORK WITHIN ROADWAYS WITH THE PROPER LOCAL & STATE AGENCY. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH SAFETY INCLUDING ANY LOCAL AND/OR STATE PERMITS REQUIRED FOR THE TRENCH WORK. IF THIS WORK IS REQUIRED TO OCCUR OUTSIDE THE AGREED UPON HOURS OF OPERATION FOR THE FACILITY, THE CONTRACTOR MUST PLAN ACCORDINGLY.
17. INSTALL ALL UTILITY TRENCH WORK PRIOR TO INSTALLING NEW PAVEMENT AS INDICATED ON THE DRAWINGS.
18. IMPORT ONLY CLEAN MATERIAL. MATERIAL FROM AN EXISTING OR FORMER 21E SITE AS DEFINED BY THE MASSACHUSETTS CONTINGENCY PLAN 310 CMR 40.0000 WILL NOT BE ACCEPTED.
19. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH AND MAINTAIN ALL CONTROL POINTS AND BENCHMARKS DURING CONSTRUCTION INCLUDING BENCHMARK LOCATIONS AND ELEVATIONS AT CRITICAL AREAS. COORDINATE WITH THE ENGINEER THE LOCATION OF ALL CONTROL POINTS AND BENCHMARKS.
20. SITE LAYOUT SURVEY REQUIRED FOR CONSTRUCTION MUST BE PROVIDED BY THE CONTRACTOR AND PERFORMED BY A MASSACHUSETTS REGISTERED PROFESSIONAL LAND SURVEYOR. AS INCIDENTAL TO THIS PROJECT THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE SURVEYOR FOR ALL SITE SURVEY WORK.
21. MAINTAIN ALL GRADE STAKES SET BY THE SURVEYOR. GRADE STAKES ARE TO REMAIN UNTIL A FINAL INSPECTION OF THE ITEM HAS BEEN COMPLETED BY THE ENGINEER. RE-STAKING OF PREVIOUSLY SURVEYED SITE FEATURES IS THE RESPONSIBILITY (INCLUDING COST) OF THE CONTRACTOR.
22. PROVIDE ALL CONSTRUCTION SERVICE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS REGARDING NOISE, VIBRATION, DUST, SEDIMENTATION CONTAINMENT, AND TRENCH WORK.
23. COLLECT SOLID WASTES AND STORE IN A SECURED DUMPSTER. THE DUMPSTER MUST MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS.
24. REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. PROMPTLY REMOVE ALL DEMOLITION DEBRIS FROM THE SITE TO AN APPROVED DUMP SITE.
25. ALL TRUCKS LEAVING THE SITE MUST BE COVERED.
26. DO NOT WASH ANY CONCRETE TRUCKS ONSITE. REMOVE BY HAND ANY CEMENT OR CONCRETE DEBRIS LEFT IN THE DISTURBED AREA.
27. BURIAL OF ANY STUMPS, SOLID DEBRIS, AND/OR STONES/BOULDERS ONSITE IS PROHIBITED.
28. IMMEDIATELY CONTACT AND COORDINATE WITH THE ENGINEER AND OWNER IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED.
29. AT THE END OF CONSTRUCTION, REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE PERFORM A THOROUGH INSPECTION OF THE WORK PERIMETER. COLLECT AND REMOVE ALL MATERIALS AND BLOWN OR WATER CARRIED DEBRIS FROM THE SITE.
30. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE AND ORDERLY PASSAGE OF VEHICULAR AND PEDESTRIAN TRAFFIC IN AREAS UNDER CONSTRUCTION.
31. SHOP DRAWINGS OF ALL CASTINGS, PRECAST CONCRETE STRUCTURES, PIPE AND MANUFACTURED COMPONENTS SHALL BE SUBMITTED FOR APPROVAL BEFORE ORDERING.
32. ALL PROPOSED PAVEMENT MARKINGS SHALL MEET EXISTING MARKINGS AT THE LIMITS OF WORK.
33. DETECTABLE WARNING PANELS SHALL BE INSTALLED ON ALL WHEELCHAIR RAMPS AND SHALL COMPLY WITH CONSTRUCTION STANDARD E 107.6.5. PAYMENT FOR DETECTABLE WARNING PANELS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE WHEELCHAIR RAMPS OR SIDEWALKS IN WHICH THEY ARE BEING INSTALLED. THE COLOR OF DETECTABLE WARNING PANELS SHALL BE AT THE DIRECTION OF THE TOWN AND OR ENGINEER.
34. SEE SIGNS AND PAVEMENT MARKING PLANS FOR PROPOSED SIGNS AND DISPOSITION OF THE EXISTING SIGNS WITHIN THE PROJECT LIMITS OR AS DIRECTED BY THE TOWN AND OR ENGINEER.
35. DO NOT SCALE DRAWINGS UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS SHALL PREVAIL. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
36. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE CONTRACTOR SHALL RESTORE ALL PUBLIC AND PRIVATE PROPERTY TO ITS PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE TOWN.
37. THE CONTRACTOR SHALL RESTORE ALL PUBLIC AND PRIVATE PROPERTY TO ITS PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE TOWN.
38. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTIFICATION TO THE RESPECTIVE UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.
39. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. INJURY TO ANY SUCH STRUCTURE CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY AND THE TOWN AND OR ENGINEER.
40. THE CONTRACTOR IS TO TAKE SPECIAL CARE NOT TO DAMAGE EXISTING VEGETATION, TREES, BUSHES, PLANTS, FLOWERS, STONEWALLS, FENCES, MAILBOXES, SIGNS, WALLS WITHIN THE CONSTRUCTION AREA UNLESS THEY ARE NOTED TO BE REMOVED. CONTRACTOR SHALL REPLACE AT NO COST TO OWNER, ALL DAMAGED ITEMS.
41. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY HIS CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, AND TO THE SATISFACTION OF THE TOWN AND OR ENGINEER.
42. ANY TRAFFIC SIGNAL EQUIPMENT (LIGHTS, CONDUITS, LOOP DETECTORS) DISTURBED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AS DIRECTED BY THE TOWN AND OR ENGINEER AT THE CONTRACTOR'S EXPENSE.
43. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
44. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A TELEPHONE NUMBER WHERE THE CONTRACTOR CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK.
45. THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED COORDINATED WITH, AND ACCEPTABLE TO THE TOWN AND OR ENGINEER. THE CONTRACTOR SHALL LIMIT ACTIVITIES TO THESE AREAS.
46. THE CONTRACTOR SHALL BE REQUIRED TO TEMPORARILY PAVE ALL DISTURBED TRAVEL WAYS, SIDEWALKS & DRIVEWAYS NOT UNDER CONSTRUCTION OR IF LEFT DURING NON WORKING HOURS AND AS REQUIRED BY THE TOWN AND OR ENGINEER.
47. ALL WORK TO COMPLETE THIS PROJECT AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

STORMWATER FACILITY OPERATION & MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER INSPECTION AND MAINTENANCE OF ALL STORMWATER MANAGEMENT FACILITIES AS OUTLINED BELOW UNTIL SUCH TIME THAT THE ROADWAYS AND ASSOCIATED UTILITIES ARE ACCEPTED BY THE OWNER AND THE ENGINEER.

1. INSPECT AND RESTORE/CLEAN ALL FACILITIES (INLETS, MANHOLES, INFILTRATION BASINS, ETC.) OF SEDIMENT AND DEBRIS PRIOR TO THE OWNER'S ACCEPTANCE.
2. REMOVE AND DISPOSE ALL SEDIMENT AND DEBRIS AT A PRE-APPROVED LOCATION AS APPROVED BY THE TOWN AND OR ENGINEER.
3. REFER TO THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR ADDITIONAL INFORMATION PERTAINING TO STORMWATER FACILITY OPERATION AND MAINTENANCE REQUIREMENTS. MAINTAIN A WORKING COPY OF THE SWPPP ON SITE AT ALL TIMES.
4. INSPECT AFTER EVERY MAJOR RAINFALL EVENT FOR THE ENTIRE DURATION OF THE CONSTRUCTION PROJECT AND THE FIRST 3 MONTHS AFTER CONSTRUCTION TO ENSURE PROPER STABILIZATION AND CONSTRUCTION.
5. MAINTENANCE REQUIRED FOR DRAINAGE STRUCTURES (INLETS, MANHOLES & CATCH BASINS): ALL DRAINAGE STRUCTURES WILL BE INSPECTED BY THE CONTRACTOR TO MONITOR FOR PROPER OPERATION, COLLECTION OF LITTER OR TRASH, AND STRUCTURAL DETERIORATION. THE BASINS WILL BE CLEANED OF SEDIMENT (INCLUDING SUMPS) AS NECESSARY, AND REPAIRED WHEN REQUIRED.

EROSION & SEDIMENT CONTROL (ESC) NOTES:

1. THE CONTRACTOR SHALL DESIGNATE ON-SITE PERSONNEL RESPONSIBLE FOR THE DAILY INSPECTION AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS AND IMPLEMENTATION OF ALL NECESSARY MEASURES TO CONTROL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES AS INDICATED ON DRAWINGS IN CONSULTATION WITH THE ENGINEER BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN. INSPECT, MAINTAIN, REPAIR AND REPLACE EROSION CONTROL MEASURES, AS NECESSARY, DURING THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT. THE SITE PERIMETER EROSION CONTROLS ARE THE DESIGNATED LIMIT OF WORK. INFORM ALL PERSONNEL WORKING ON THE PROJECT SITE THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
3. KEEP THE LIMIT OF CLEARING, GRADING AND DISTURBANCES TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. PHASE THE SITE WORK IN A MANNER TO MINIMIZE AREAS OF EXPOSED SOIL. IF TREES ARE TO BE CUT, CLEAR AND GRUB ONLY THOSE AREAS WHICH ARE ACTIVELY UNDER CONSTRUCTION. PROPERLY INSTALL THE SEDIMENTATION CONTROLS PRIOR TO BEGINNING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK.
4. MONITOR LOCAL WEATHER REPORTS DURING CONSTRUCTION AND PRIOR TO SCHEDULING EARTHMOVING OR OTHER CONSTRUCTION ACTIVITIES WHICH LEAVE LARGE DISTURBED AREAS UNSTABILIZED. IF INCLEMENT WEATHER IS PREDICTED, USE BEST PROFESSIONAL JUDGEMENT AND GOOD CONSTRUCTION PRACTICES WHEN SCHEDULING CONSTRUCTION ACTIVITIES AND ENSURE THE NECESSARY EROSION CONTROL DEVICES ARE INSTALLED AND FUNCTIONING PROPERLY TO MINIMIZE EROSION FROM ANY IMPENDING WEATHER EVENTS.
5. INSPECT EROSION AND SEDIMENT CONTROL DEVICES AND STABILIZED SLOPES ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT OF .25 INCH OR GREATER. REPAIR IDENTIFIED PROBLEMS WITHIN 24 HOURS TO ENSURE EROSION AND SEDIMENT CONTROLS ARE IN GOOD WORKING ORDER. RESET OR REPLACE MATERIALS AS REQUIRED.
6. SURROUND THE PERIMETER OF SOIL STOCKPILES WITH SILT SOCK, SILT FENCE, STRAWBALES, OR A COMBINATION OF SILT FENCE WITH STRAWBALE, AS DETERMINED NECESSARY.
7. DISTURBED AREAS AND SLOPES MUST NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. PROVIDE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. REINFORCE TEMPORARY AREAS HAVING A SLOPE GREATER THAN 4:1 WITH EROSION BLANKETS OR APPROVED EQUAL UNTIL THE SITE IS PROPERLY STABILIZED. TEMPORARY SWALES MAY ALSO BE REQUIRED IF DETERMINED NECESSARY IN THE FIELD BY THE ENGINEER.
8. INSTALL A CATCH BASIN SILT SACK OR APPROVED EQUIVALENT IN EACH EXISTING CATCH BASIN RECEIVING RUNOFF FROM THE SITE. UPON THE INSTALLATION OF EACH CATCH BASIN, INSTALL SILT SACK OR APPROVED EQUIVALENT. INSPECT SILT SACKS, AFTER EACH SIGNIFICANT STORM EVENT AND REMOVE AND EMPTY AS NEEDED FOR THE DURATION OF THE CONSTRUCTION PERIOD.
9. SMALL SEDIMENTATION BASINS MAY BE CONSTRUCTED ON AN AS-NEEDED BASIS DURING CONSTRUCTION TO AID IN THE CAPTURE OF SITE RUNOFF AND SEDIMENT. IT WILL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR, IN CONSULTATION WITH THE ENGINEER, TO SIZE AND CREATE THESE BASINS IN APPROPRIATE LOCATIONS.
10. CONTAIN ALL SEDIMENT ON SITE. SWEEP ALL EXITS FROM THE SITE AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. SWEEP PAVED AREAS AS NEEDED TO REMOVE SEDIMENT AND POTENTIAL POLLUTANTS ACCUMULATED DURING SITE CONSTRUCTION.
11. REMOVE ACCUMULATED SEDIMENT FROM ALL TEMPORARY PRACTICES AND DISPOSE OF IN A PRE-APPROVED LOCATION.
12. TO ENSURE ALL EROSION AND SEDIMENTATION CONTROL DEVICES ARE PROPERLY MAINTAINED AND REPAIRED IN A TIMELY AND RESPONSIBLE MANNER, PROVIDE ON SITE, OR MAKE READILY AVAILABLE, THE NECESSARY EQUIPMENT AND SITE PERSONNEL DURING CONSTRUCTION HOURS FOR THE DURATION OF THE PROJECT. IF SITE WORK IS SUSPENDED DURING THE WINTER MONTHS THE CONTRACTOR MUST CONTINUE TO PROVIDE PERSONNEL AND EQUIPMENT ON SITE OR READILY AVAILABLE.
13. CONTROL DUST BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE ENGINEER.

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	005	293
PROJECT FILE NO.		608744	

BORING LOGS - 01

ATC
ENVIRONMENTAL - GEOTECHNICAL
BUILDING SCIENCES - MATERIALS TESTS

Report No. 25.31414.003-3
Page 2

Sample No.	Description	Source
1a	Sand	Core Test Hole #1 14 1/2"-24"
2a	Sand	Core Test Hole #2 12"-24"
3a	Sand	Core Test Hole #3 5 3/8"-24"
4a	Sandy Gravel	Core Test Hole #4 4"-6"
4b	Sand	Core Test Hole #4 6"-24"
5a	Sandy Gravel	Core Test Hole #5 4 7/8"-24"
6a	Sand with Some Gravel	Core Test Hole #6 5"-24"
7a	Silty Sand	Core Test Hole #7 5 1/4"-12"
7b	Sand	Core Test Hole #7 12"-24"
8a	Silty Sand with Gravel	Core Test Hole #8 15"-24"
9a	Sand	Core Test Hole #9 15"-24"
10a	Silty Sand with Gravel	Core Test Hole #10 3 1/2"-19"
12a	Sand	Core Test Hole #12 5 1/4"-24"

ATC
ENVIRONMENTAL - GEOTECHNICAL
BUILDING SCIENCES - MATERIALS TESTS

Report No. 25.31414.003-3
Page 3

**Washed Sieve Analysis
(% passing by weight)**

Sieve Size (mm)	1a	2a	3a	4a	4b
4" (100.0)					
3 (75.0)					
2 (50.0)					
1 1/2 (37.5)		100		100	
1 (25.0)	100	99		97	
3/4 (19.0)	99	98	100	96	100
1/2 (12.5)	97	97	99	85	99
3/8 (9.5)	96	96	98	78	98
#4 (4.75)	95	95	97	63	97
10 (2.00)	94	94	96	49	93
20 (.850)	82	82	87	28	83
40 (.425)	27	29	22	13	24
50 (.300)	21	21	16	10	18
80 (.180)	15	15	13	8	14
200 (.075)	7.7	7.4	6.9	3.9	7.0

Sieve Size (mm)	5a	6a	7a	7b	8a
3" (75.0)					
2 (50.0)					
1 1/2 (37.5)	100	100			100
1 (25.0)	99	99			97
3/4 (19.0)	98	98			94
1/2 (12.5)	91	96	100	100	94
3/8 (9.5)	86	94	99	99	92
#4 (4.75)	69	90	98	98	90
10 (2.00)	56	86	96	97	87
20 (.850)	44	72	80	95	80
40 (.425)	16	16	54	82	52
50 (.300)	12	11	47	13	45
80 (.180)	7	6	36	7	34
200 (.075)	3.7	3.4	12.8	4.8	19.5

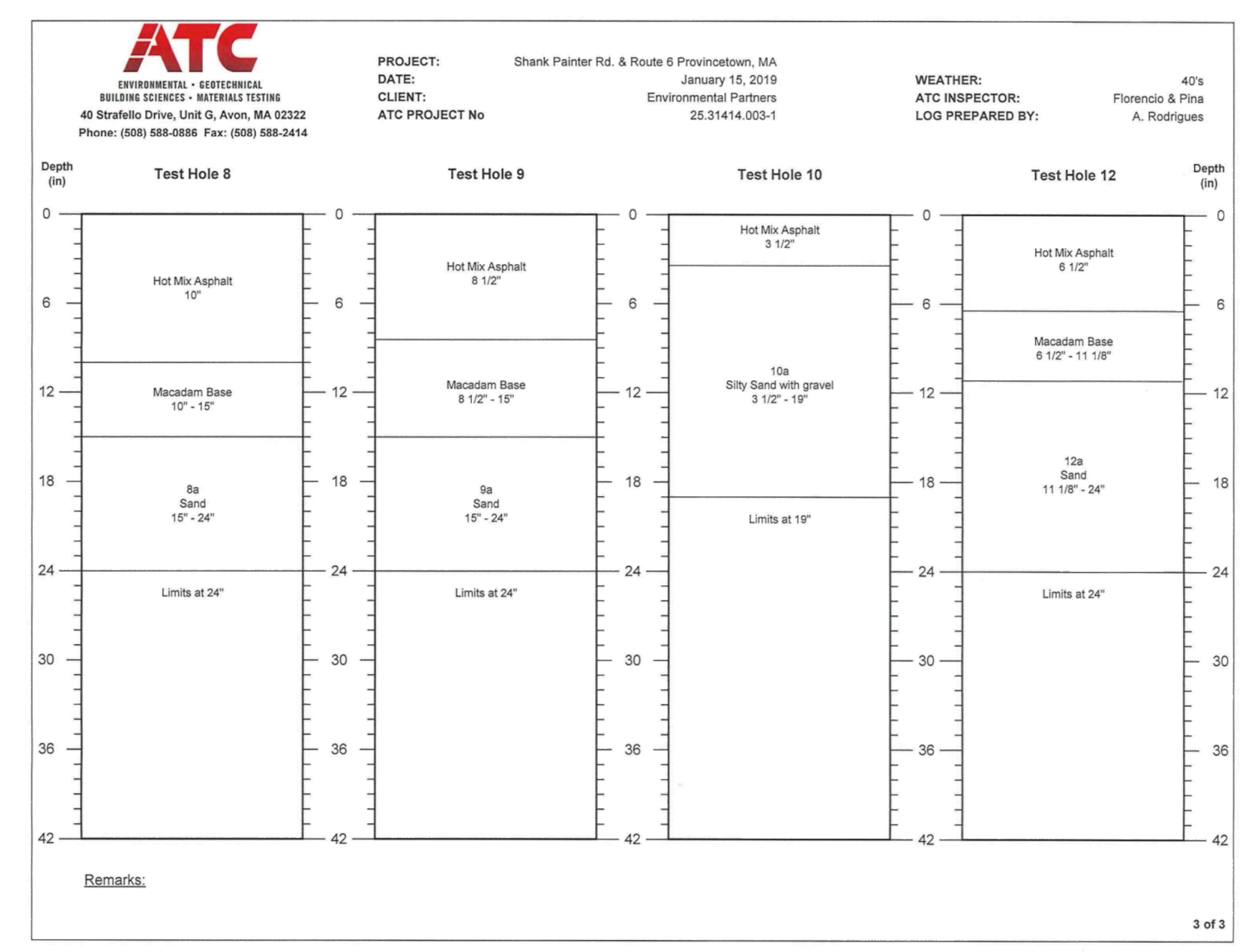
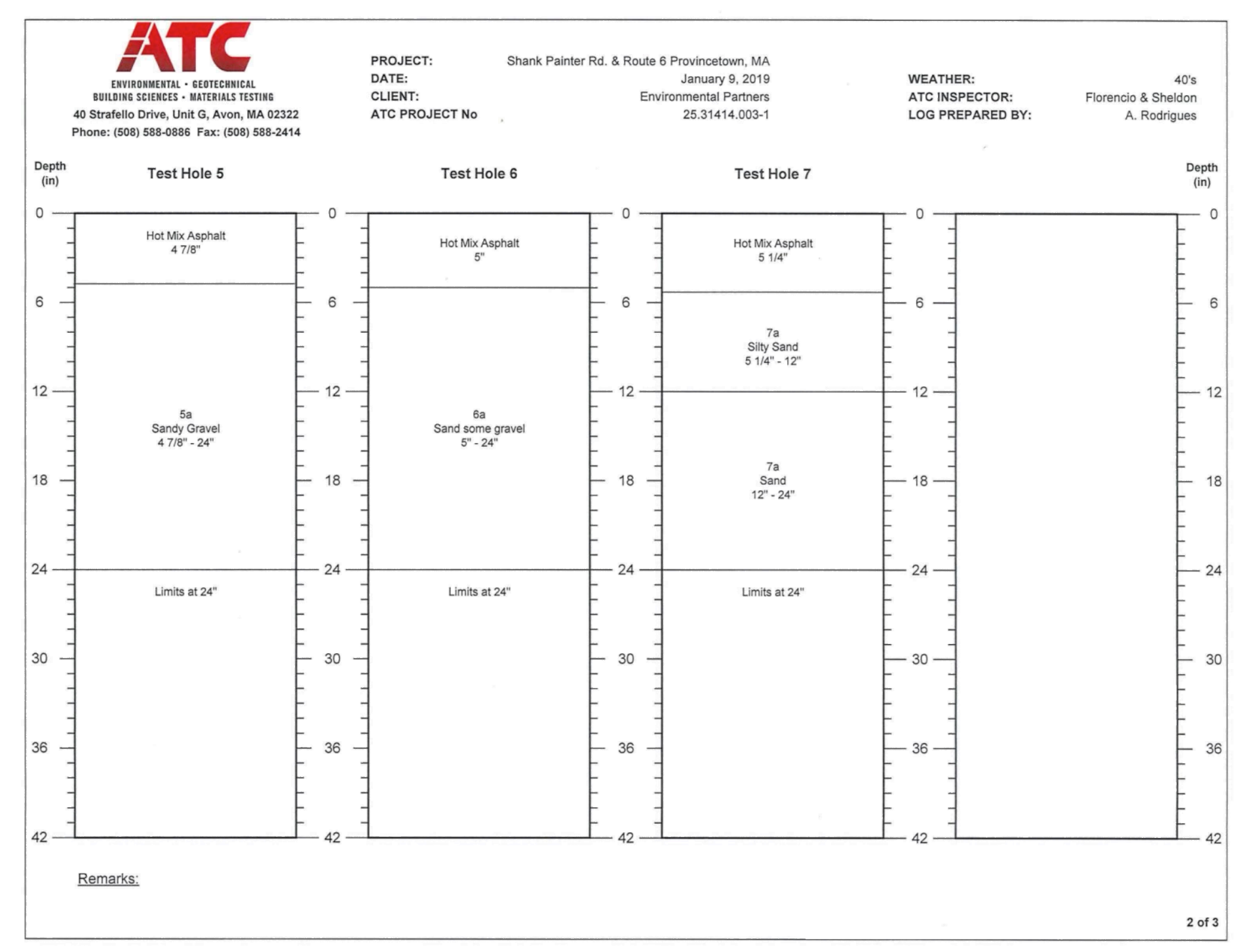
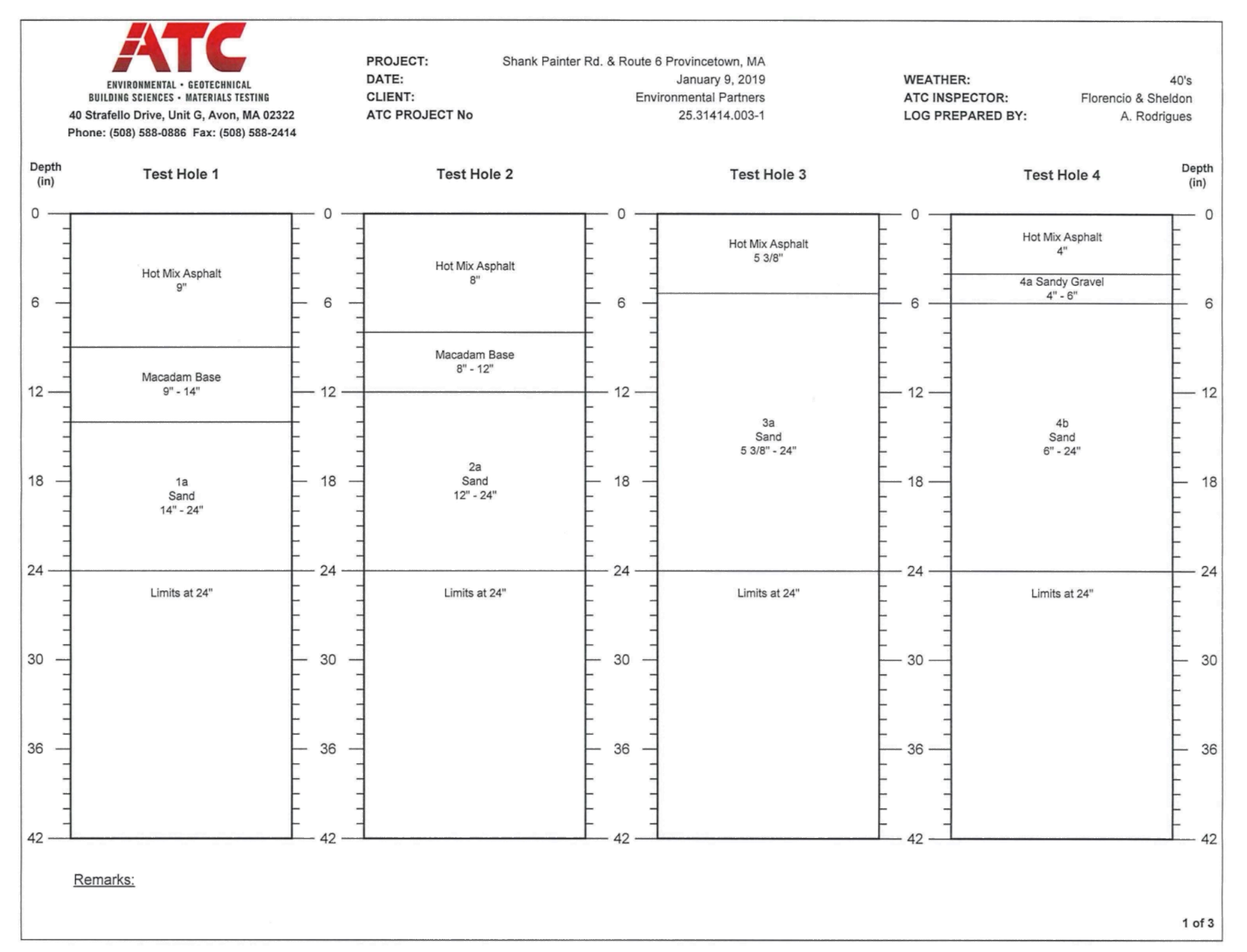
ATC
ENVIRONMENTAL - GEOTECHNICAL
BUILDING SCIENCES - MATERIALS TESTS

Report No. 25.31414.003-3
Page 4

Sieve Size (mm)	9a	10a	12a
3" (75.0)		100	
2 (50.0)		97	
1 1/2 (37.5)		97	
1 (25.0)	100	92	
3/4 (19.0)	99	85	100
1/2 (12.5)	98	72	99
3/8 (9.5)	97	66	99
#4 (4.75)	96	59	98
10 (2.00)	95	49	97
20 (.850)	81	40	81
40 (.425)	26	31	16
50 (.300)	21	27	13
80 (.180)	16	22	10
200 (.075)	8.2	16.1	5.3

Laboratory CBR Test Results

	3a	10a
Maximum Dry Density (pcf)	119.8	134.7
Optimum Moisture (%)	8.6	7.1
Dry Density before Soaking (pcf)	118.9	133.9
Moisture Content before Soaking (%)	8.4	6.5
Dry Density after Soaking (pcf)	119.2	134.2
Moisture Content after Soaking (%)	9.4	7.6
Swell (%)	0.0	0.0
CBR @ 0.1"	16	39
CBR @ 0.2"	34	36



**PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	006	293
PROJECT FILE NO.		608744	

BORING LOGS - 02

BORING LOG						
Project: Shank Painter Road Location: Shank Painter Rd, Provincetown Client: Town of Provincetown Driller: Northern Drilling Services, Inc. Drilling Methods: Wash and Drive Weather: 79F, Sunny Performed By: LKH Date: 9/7/2023 Checked By:				Boring: B-1 Location: Gravel Lot near #15 SP Rd. Approx. Ground Elev: Unk. Approx. Groundwater Elev: 5.13' bgs Datum: Project No. 115-1601		
Depth (feet)	Sample No.	Blows per 6-inch	Pen./ Rec. (inches)	Soil Description	Stratum Depth Change (feet)	Note No.
1						
2	Skipped					1
3						
4						
5	S-1	9	24/7	3" Wood	Wood	2
6		7		4" Coarse Sand with Trace Gravel	Coarse Sand with Trace Gravel	
7		3				
8		5				
9						
10	S-2	6	24/24	18" Coarse Sand	Coarse Sand	
11		5		3" Wood	Wood	
12		3		3" Medium Gravel and Sand	Medium Gravel and Sand	
13						
14						
15						
16						
17						
18						
19						
20						
21						
NOTES: 1. Wood from around 1.5'-3' below grade. 2. Approximate GW elev. = 5.13' below grade.				LEGEND S - Split Spoon Sample O/A - Sample Collected Off the Augers UT - Undisturbed Tube Sample C - Rock Core Trace - Approximately 0 to 10% Some - Approximately 20 to 35% Little - Approximately 10 to 20% And - Approximately 35 to 50% 0-4 Coarse Soil N Value - Very Loose 11-30 Coarse Soil N Value - Medium Dense 5-10 Coarse Soil N Value - Loose 31-50 Coarse Soil N Value - Dense 0-2 Fine Soil N Value - Very Soft 4-8 Fine Soil N Value - Medium Stiff 2-4 Fine Soil N Value - Soft 8-15 Fine Soil N Value - Stiff		

BORING LOG						
Project: Shank Painter Road Location: Shank Painter Rd, Provincetown Client: Town of Provincetown Driller: Northern Drilling Services, Inc. Drilling Methods: Wash and Drive Weather: 80F, Sunny Performed By: LKH Date: 9/7/2023 Checked By:				Boring: B-2 Location: Parking Lot Near Fire Station Approx. Ground Elev: Unk. Approx. Groundwater Elev: 6.25' bgs Datum: Project No. 115-1601		
Depth (feet)	Sample No.	Blows per 6-inch	Pen./ Rec. (inches)	Soil Description	Stratum Depth Change (feet)	Note No.
1						
2	Skipped					
3						
4						
5	S-1	6	24/17	5" Sand with Some Medium Gravel	Sand with Some Med. Gravel	1
6		5		12" Coarse Sand	Coarse Sand	
7		7				
8						
9						
10	S-2	5	24/21	21" Coarse Sand with Trace Gravel	Coarse Sand with Trace Gravel	
11		5				
12		4				
13						
14						
15						
16						
17						
18						
19						
20						
21						
NOTES: 1. Approximate GW elev. = 6.25' below grade.				LEGEND S - Split Spoon Sample O/A - Sample Collected Off the Augers UT - Undisturbed Tube Sample C - Rock Core Trace - Approximately 0 to 10% Some - Approximately 20 to 35% Little - Approximately 10 to 20% And - Approximately 35 to 50% 0-4 Coarse Soil N Value - Very Loose 11-30 Coarse Soil N Value - Medium Dense 5-10 Coarse Soil N Value - Loose 31-50 Coarse Soil N Value - Dense 0-2 Fine Soil N Value - Very Soft 4-8 Fine Soil N Value - Medium Stiff 2-4 Fine Soil N Value - Soft 8-15 Fine Soil N Value - Stiff		

BORING LOG						
Project: Shank Painter Road Location: Shank Painter Rd, Provincetown Client: Town of Provincetown Driller: Northern Drilling Services, Inc. Drilling Methods: Wash and Drive Weather: 82F, Sunny Performed By: LKH Date: 9/7/2023 Checked By:				Boring: B-3 Location: SP Rd and Court St Intersection Approx. Ground Elev: Unk. Approx. Groundwater Elev: 10.2' bgs Datum: Project No. 115-1601		
Depth (feet)	Sample No.	Blows per 6-inch	Pen./ Rec. (inches)	Soil Description	Stratum Depth Change (feet)	Note No.
1						
2	Skipped					
3						
4						
5	S-1	10	24/17	2" Asphalt/Pavement	Asphalt/Pavement	
6		4		15" Coarse Sand	Coarse Sand	
7		10				
8		4				
9		10				
10	S-2	18	24/21	2" Coarse Sand with Little Gravel	Coarse Sand with Little Gravel	1
11		9		19" Coarse Sand	Coarse Sand	
12		7				
13						
14						
15						
16						
17						
18						
19						
20						
21						
NOTES: 1. Approximate GW elev. = 10.2' below grade.				LEGEND S - Split Spoon Sample O/A - Sample Collected Off the Augers UT - Undisturbed Tube Sample C - Rock Core Trace - Approximately 0 to 10% Some - Approximately 20 to 35% Little - Approximately 10 to 20% And - Approximately 35 to 50% 0-4 Coarse Soil N Value - Very Loose 11-30 Coarse Soil N Value - Medium Dense 5-10 Coarse Soil N Value - Loose 31-50 Coarse Soil N Value - Dense 0-2 Fine Soil N Value - Very Soft 4-8 Fine Soil N Value - Medium Stiff 2-4 Fine Soil N Value - Soft 8-15 Fine Soil N Value - Stiff		

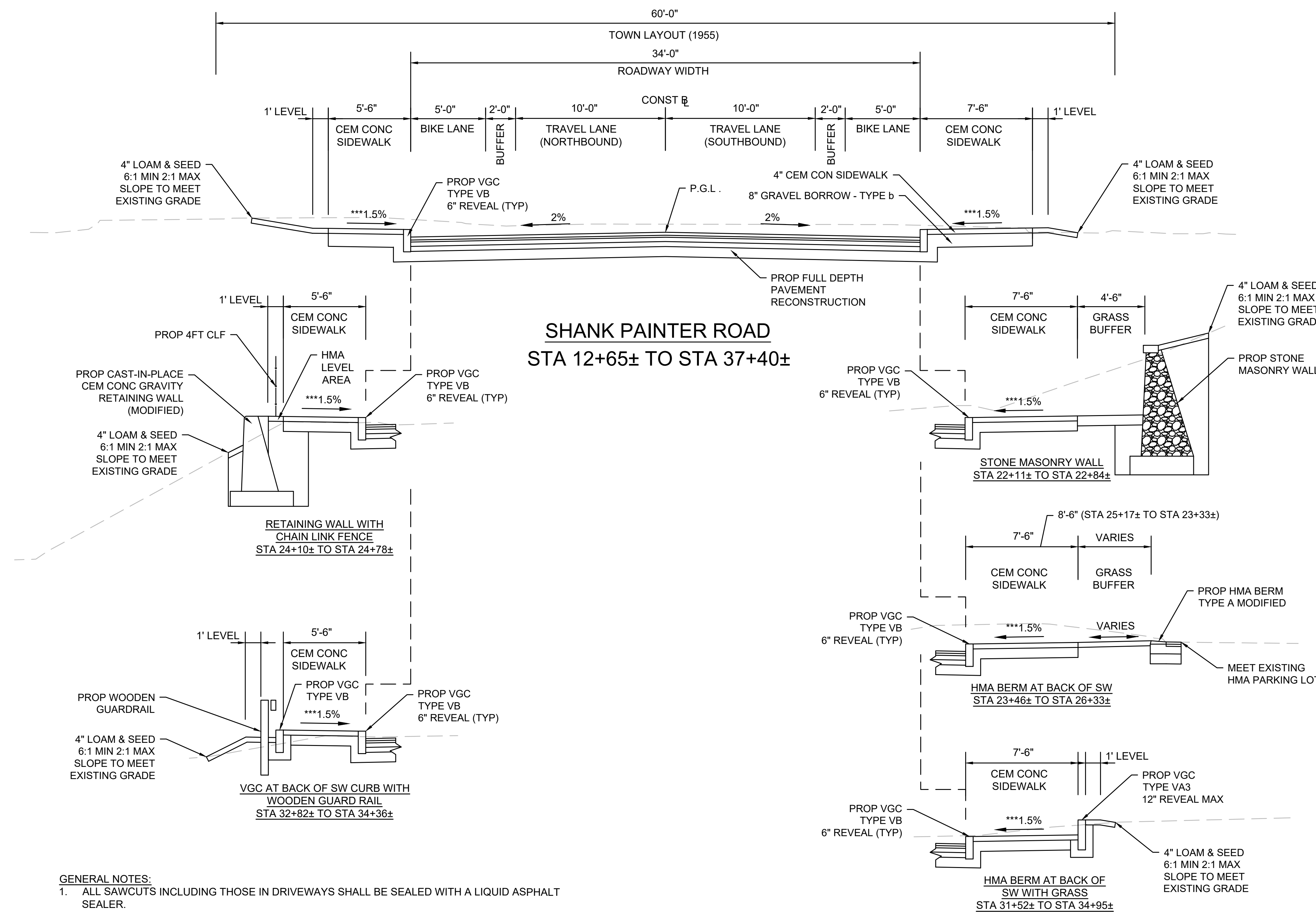
BORING LOG						
Project: Shank Painter Road Location: Shank Painter Rd, Provincetown Client: Town of Provincetown Driller: Northern Drilling Services, Inc. Drilling Methods: Wash and Drive Weather: 82F, Sunny Performed By: LKH Date: 9/7/2023 Checked By:				Boring: B-4 Location: SP Rd and Court St Intersection Approx. Ground Elev: Unk. Approx. Groundwater Elev: 10.7' bgs Datum: Project No. 115-1601		
Depth (feet)	Sample No.	Blows per 6-inch	Pen./ Rec. (inches)	Soil Description	Stratum Depth Change (feet)	Note No.
1						
2	Skipped					
3						
4						
5	S-1	5	24/19	19" Coarse Sand	Coarse Sand	
6		2				
7		7				
8		14				
9						
10	S-2	6	24/20	2" Sand with Some Medium Gravel	Sand with Some Med. Gravel	1
11		7		18" Coarse Sand	Coarse Sand	
12		10				
13		12				
14						
15						
16						
17						
18						
19						
20						
21						
NOTES: 1. Approximate GW elev. = 10.7' below grade.				LEGEND S - Split Spoon Sample O/A - Sample Collected Off the Augers UT - Undisturbed Tube Sample C - Rock Core Trace - Approximately 0 to 10% Some - Approximately 20 to 35% Little - Approximately 10 to 20% And - Approximately 35 to 50% 0-4 Coarse Soil N Value - Very Loose 11-30 Coarse Soil N Value - Medium Dense 5-10 Coarse Soil N Value - Loose 31-50 Coarse Soil N Value - Dense 0-2 Fine Soil N Value - Very Soft 4-8 Fine Soil N Value - Medium Stiff 2-4 Fine Soil N Value - Soft 8-15 Fine Soil N Value - Stiff		

BORING LOG						
Project: Shank Painter Road Location: Shank Painter Rd, Provincetown Client: Town of Provincetown Driller: Northern Drilling Services, Inc. Drilling Methods: Wash and Drive Weather: 82F, Sunny Performed By: LKH Date: 9/7/2023 Checked By:				Boring: B-5 Location: SP Rd and Rt. 6 Intersection Approx. Ground Elev: 16' bgs Approx. Groundwater Elev: 11.7' bgs Datum: Project No. 115-1601		
Depth (feet)	Sample No.	Blows per 6-inch	Pen./ Rec. (inches)	Soil Description	Stratum Depth Change (feet)	Note No.
1						
2	Skipped					
3						
4						
5	S-1	7	24/21	5" Coarse Sand with Trace Silt	Coarse Sand with Trace Silt	
6		10		16" Coarse Sand	Coarse Sand	
7		11				
8		13				
9						
10	S-2	6	24/21	21" Coarse Sand	Coarse Sand	1
11		10				
12		11				
13		9				
14						
15	S-3	8	24/24	23" Coarse Sand	Coarse Sand	2
16		35		1" Rock	Rock	
17		47				
18		90+				
19						
20						
21						
NOTES: 1. Approximate GW elev. = 11.7' below grade. 2. Approximate Bedrock elev. = 16' below grade.				LEGEND S - Split Spoon Sample O/A - Sample Collected Off the Augers UT - Undisturbed Tube Sample C - Rock Core Trace - Approximately 0 to 10% Some - Approximately 20 to 35% Little - Approximately 10 to 20% And - Approximately 35 to 50% 0-4 Coarse Soil N Value - Very Loose 11-30 Coarse Soil N Value - Medium Dense 5-10 Coarse Soil N Value - Loose 31-50 Coarse Soil N Value - Dense 0-2 Fine Soil N Value - Very Soft 4-8 Fine Soil N Value - Medium Stiff 2-4 Fine Soil N Value - Soft 8-15 Fine Soil N Value - Stiff		

PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	007	293
PROJECT FILE NO.		608744	

TYPICAL SECTIONS - 01



SHANK PAINTER ROAD
STA 12+65± TO STA 37+40±

PAVEMENT NOTES

PROPOSED PAVEMENT MILLING & OVERLAY

SURFACE: 1.75" SUPERPAVE SURFACE COURSE (SSC 12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1H) @ 0.08 GAL/SY OVER

*LEVELING: VARIABLE DEPTH (1" MAX) OVER

MILLING: VARIABLE DEPTH (0.5" TO 1.75") PAVEMENT MILLING

PROPOSED FULL DEPTH PAVEMENT RECONSTRUCTION / WIDENING GREATER OR EQUAL TO 4 FT

SURFACE: 1.75" SUPERPAVE SURFACE COURSE (SSC 12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1H) @ 0.08 GAL/SY OVER

INTERMEDIATE: 1.75" SUPERPAVE INTERMEDIATE COURSE (SIC 12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1H) @ 0.07 GAL/SY OVER

BASE: 3.5" SUPERPAVE BASE COURSE (SBC 37.5) OVER

SUBBASE: 4" DENSE GRADE CRUSHED STONE OVER 8" GRAVEL BORROW (TYPE b)

PROPOSED FULL DEPTH BOX WIDENING LESS THAN 4 FT

SURFACE: 1.75" SUPERPAVE SURFACE COURSE (SSC 12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1H) @ 0.07 GAL/SY OVER

INTERMEDIATE: 1.75" SUPERPAVE INTERMEDIATE COURSE (SIC 12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1H) @ 0.07 GAL/SY OVER

BASE: 6" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE OVER

SUBBASE: 8" GRAVEL BORROW (TYPE b)

PROPOSED HOT MIX ASPHALT PAVEMENT MILLING & OVERLAY FOR ROADWAY, PEDESTRIAN AND BIKE LANE

SURFACE: 1.75" SUPERPAVE SURFACE COURSE (SSC 12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1H) @ 0.08 GAL/SY OVER

*LEVELING: VARIABLE DEPTH (1" MAX) SUPERPAVE LEVELING COURSE - 12.5 (SLC 12.5) DIRECTED BY THE ENGINEER OVER

MILLING: VARIABLE DEPTH (0.5" TO 1.75") PAVEMENT MILLING

PROPOSED CEMENT CONCRETE DRIVEWAY

SURFACE: 6" CEMENT CONCRETE OVER

SUBBASE: 8" GRAVEL BORROW (TYPE b)

PROPOSED CEMENT CONCRETE TRUCK APRON

SURFACE: 8" STAMPED COLORED CONCRETE 4000 PSI, 0.75", 610, AIR-ENTRAINED WITH PENETRANT SEALER OVER

SUBBASE: 8" GRAVEL BORROW (TYPE b)

PROPOSED CEMENT CONCRETE SIDEWALK AND PEDESTRIAN CURB RAMP

SURFACE: 4" CEMENT CONCRETE OVER

SUBBASE: 8" GRAVEL BORROW (TYPE b)

PROPOSED FULL DEPTH HOT MIX ASPHALT DRIVEWAY, BIKE PATH AND BIKE RAMP

SURFACE: 4" HOT MIX ASPHALT PLACE IN TWO LAYERS 1.5" SURFACE COURSE OVER 2.5" INTERMEDIATE COURSE

SUBBASE: 8" GRAVEL BORROW (TYPE b)

PROPOSED LOAM & SEED

SURFACE: 4" LOAM BORROW

SUBBASE: VARIABLE DEPTH SUITABLE EXCAVATED MATERIAL OR ORDINARY BORROW (AS DIRECTED BY ENGINEER)

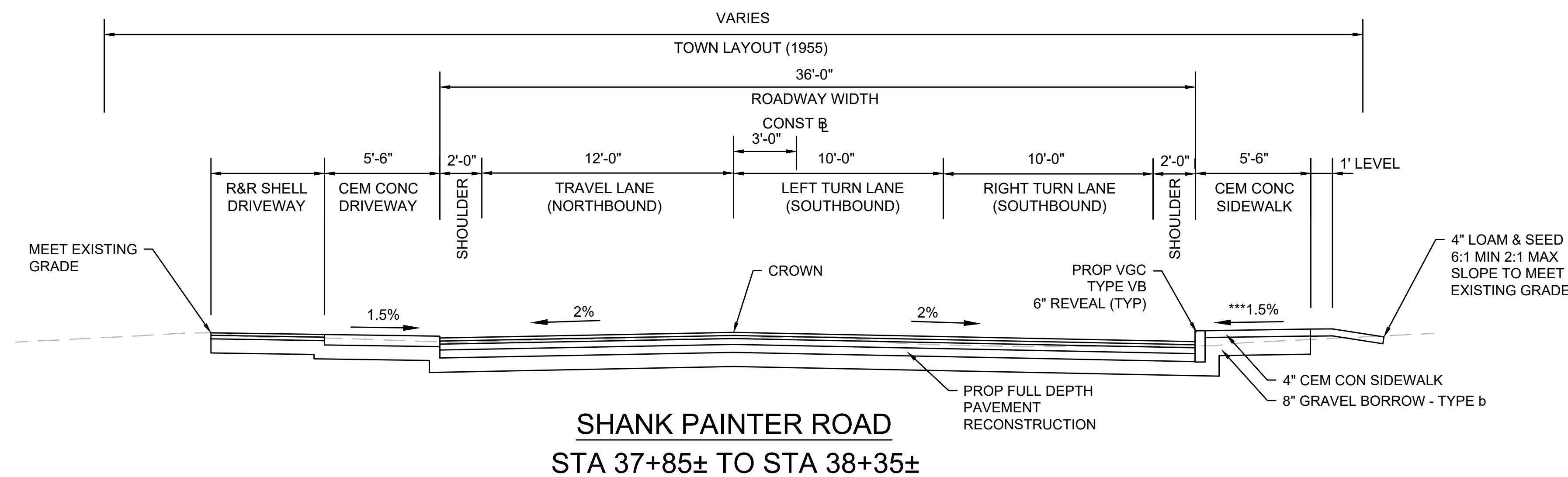
GENERAL NOTES:

- ALL SAWCUTS INCLUDING THOSE IN DRIVEWAYS SHALL BE SEALED WITH A LIQUID ASPHALT SEALER.
- LEVELING COURSE TO BE PAID FOR UNDER ITEM 460. HOT MIX ASPHALT AT THE DIRECTION OF THE TOWN AND OR ENGINEER
- PROPOSED NEW GRANITE CURB TYPE VB AS DIRECTED BY THE TOWN AND/OR ENGINEER
- 0.5%± CONSTRUCTION TOLERANCE

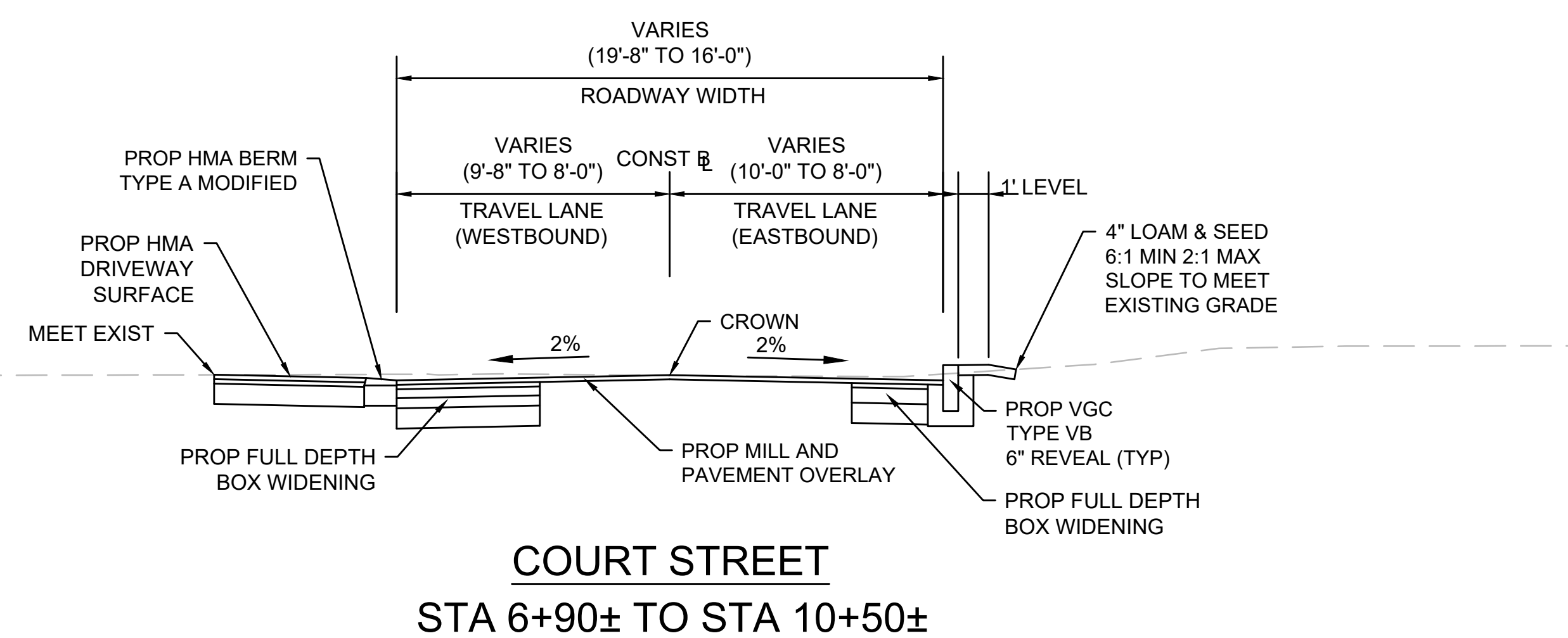
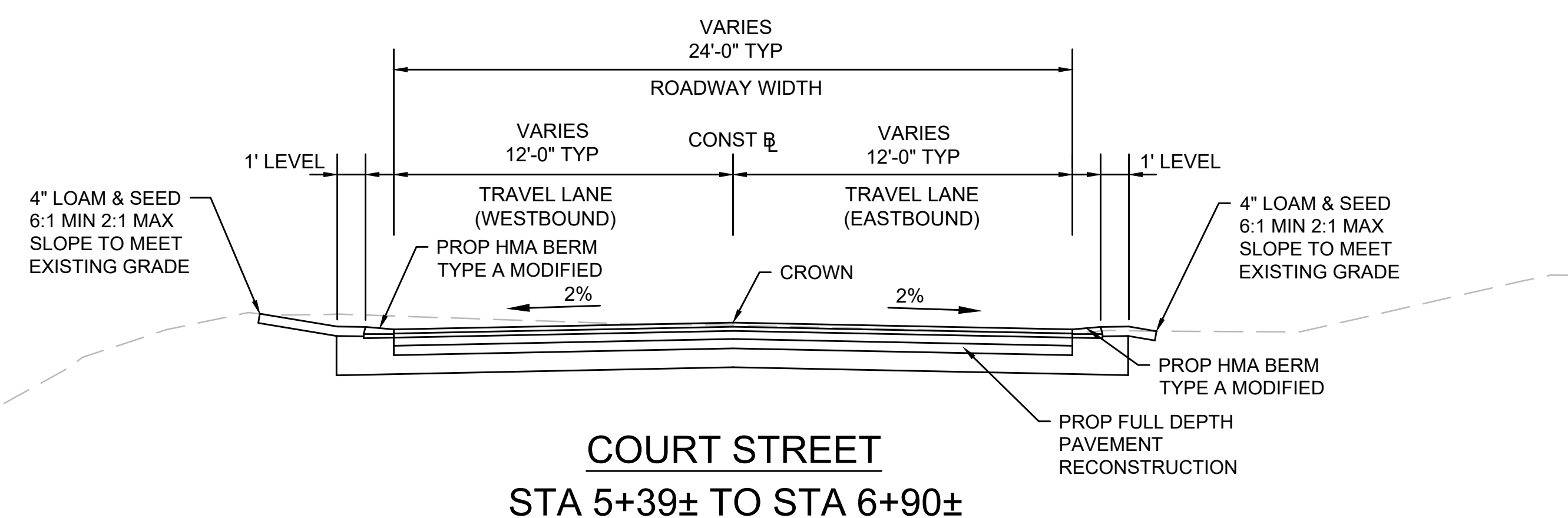
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	008	293
PROJECT FILE NO.		608744	

TYPICAL SECTIONS - 02



SEE PAVEMENT AND GENERAL NOTES ON SHEET 007

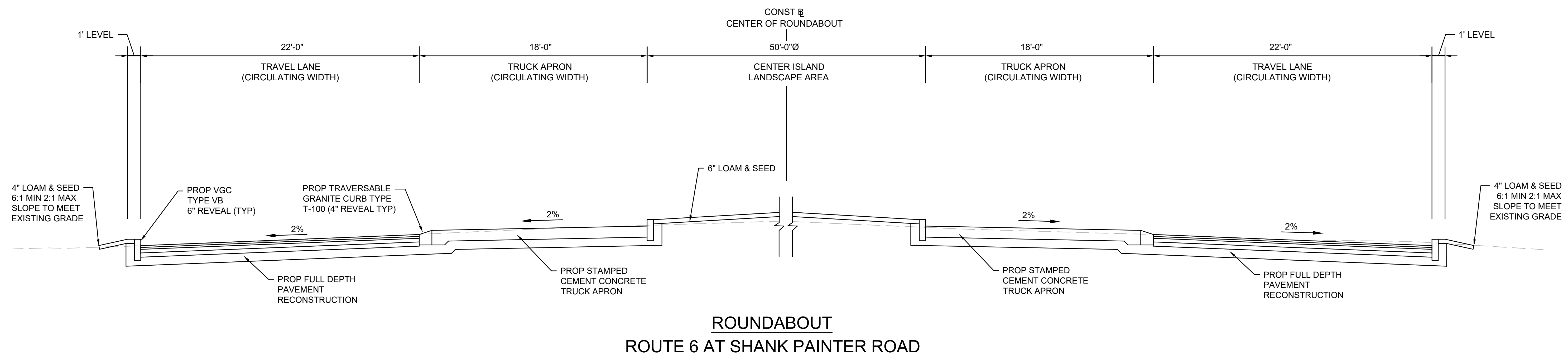
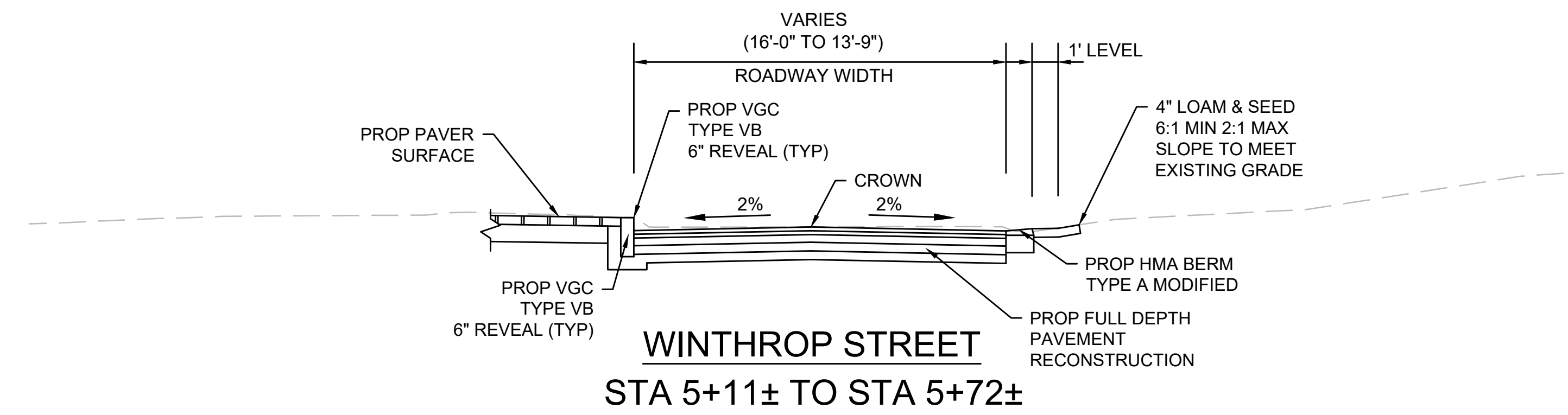


PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	009	293
PROJECT FILE NO.		608744	

TYPICAL SECTIONS - 03

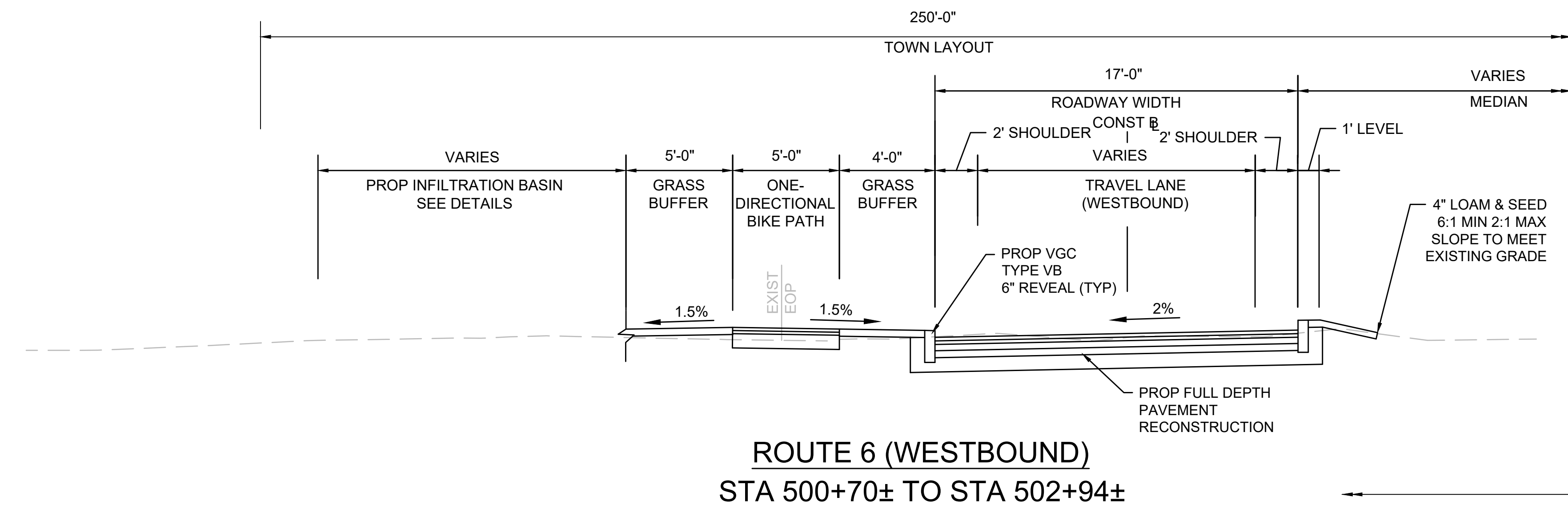
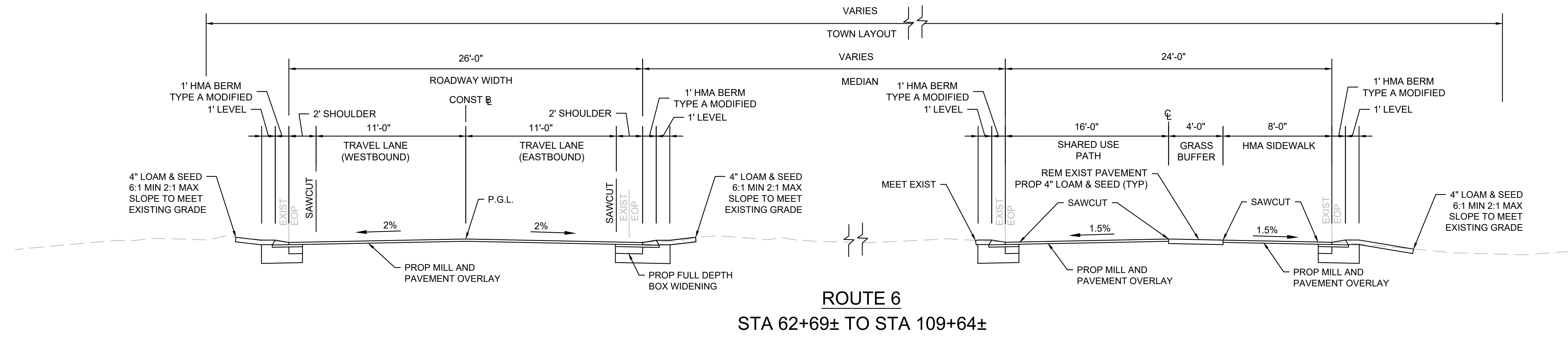
SEE PAVEMENT AND GENERAL NOTES ON SHEET 007



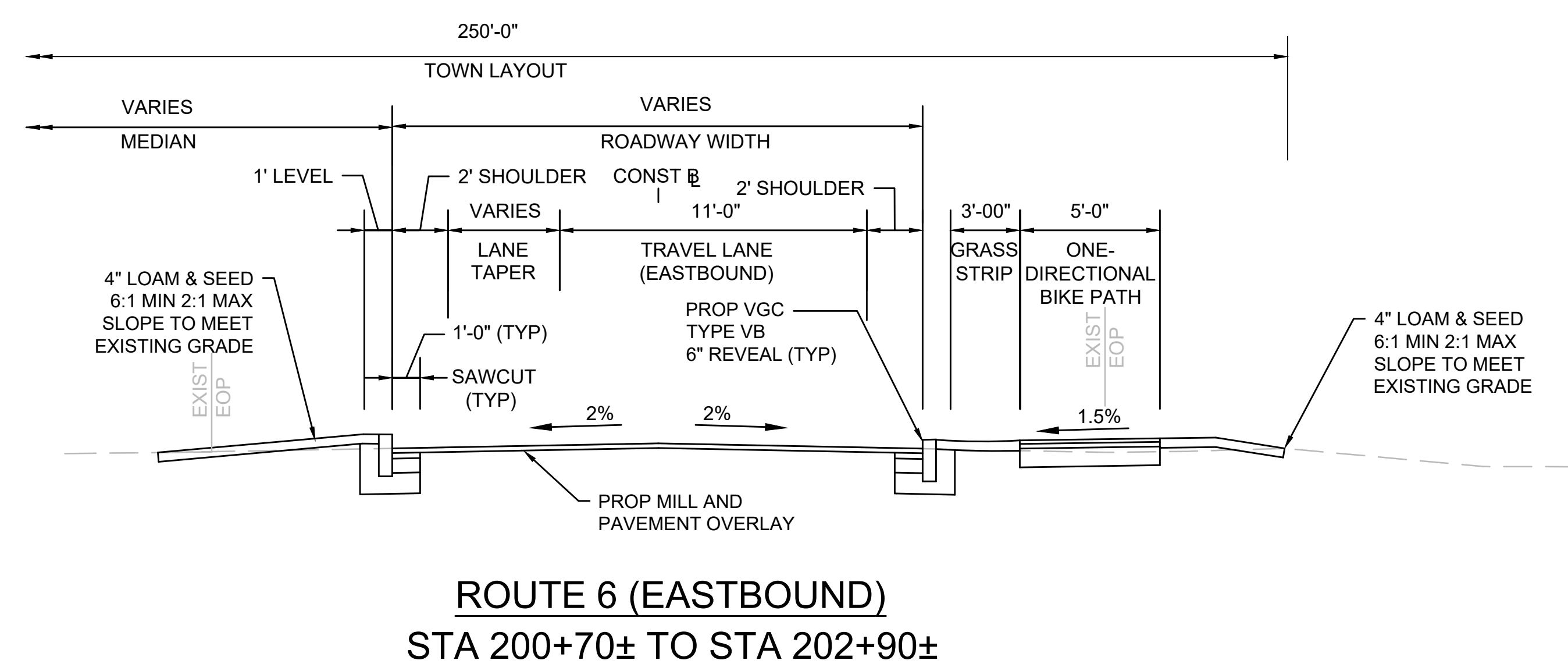
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	010	293
PROJECT FILE NO.		608744	

TYPICAL SECTIONS - 04



SEE PAVEMENT AND GENERAL NOTES ON SHEET 007



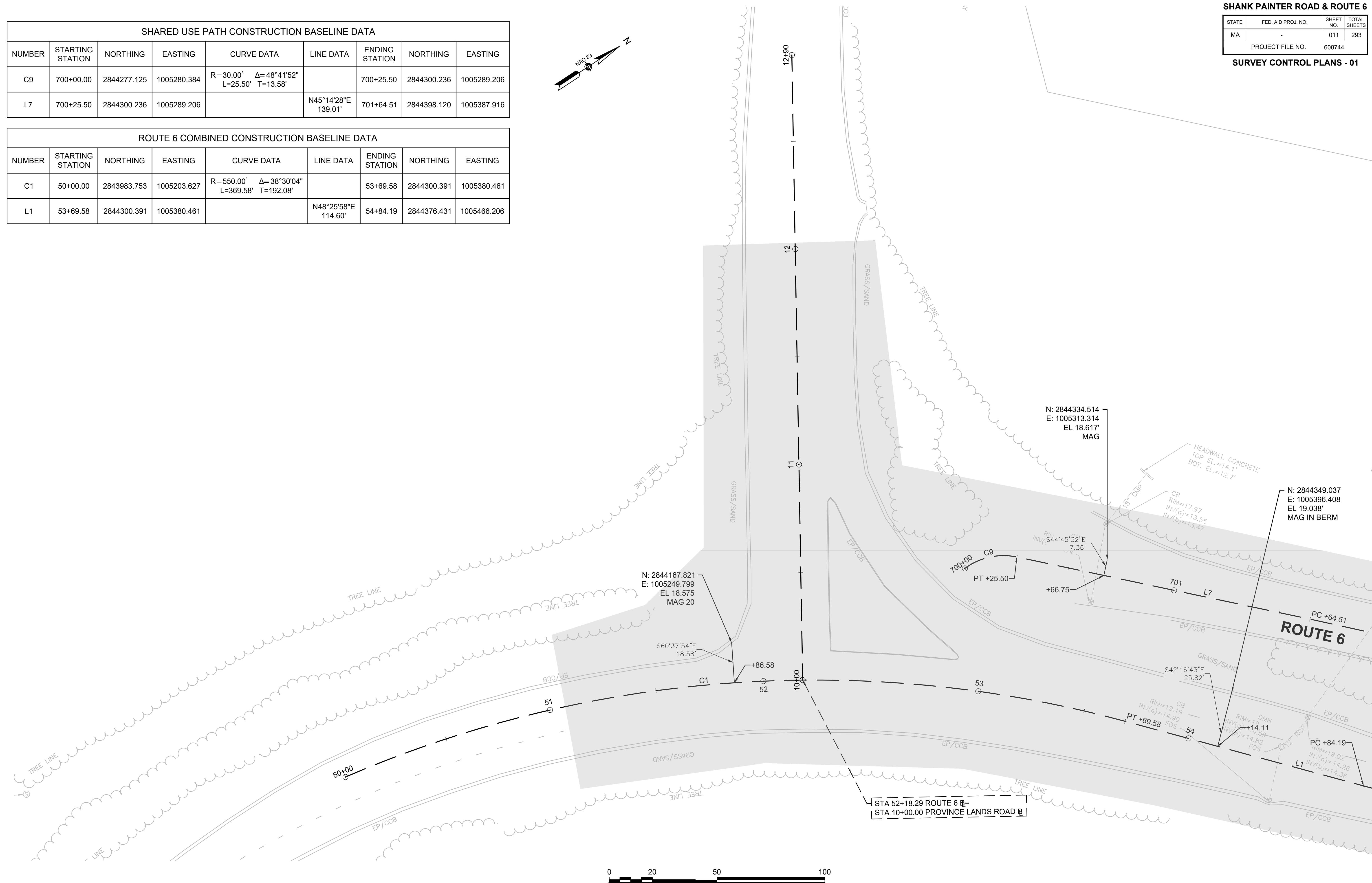
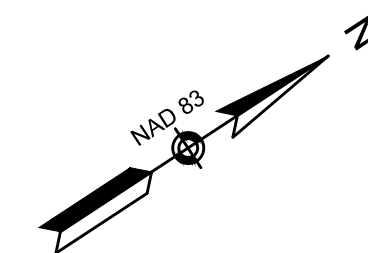
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	011	293
PROJECT FILE NO. 608744			

SURVEY CONTROL PLANS - 01

SHARED USE PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C9	700+00.00	2844277.125	1005280.384	R=30.00' Δ=48°41'52" L=25.50' T=13.58'		700+25.50	2844300.236	1005289.206
L7	700+25.50	2844300.236	1005289.206		N45°14'28"E 139.01'	701+64.51	2844398.120	1005387.916

ROUTE 6 COMBINED CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C1	50+00.00	2843983.753	1005203.627	R=550.00' Δ=38°30'04" L=369.58' T=192.08'		53+69.58	2844300.391	1005380.461
L1	53+69.58	2844300.391	1005380.461		N48°25'58"E 114.60'	54+84.19	2844376.431	1005466.206



NOTE:

- ALL PROPOSED WORK WITHIN HATCHED AREA TO BE PERFORMED BY OTHERS.

CONTINUED ON
SHEET NO. 12

NOTE:

- ALL PROPOSED WORK WITHIN HATCHED AREA TO BE PERFORMED BY OTHERS.

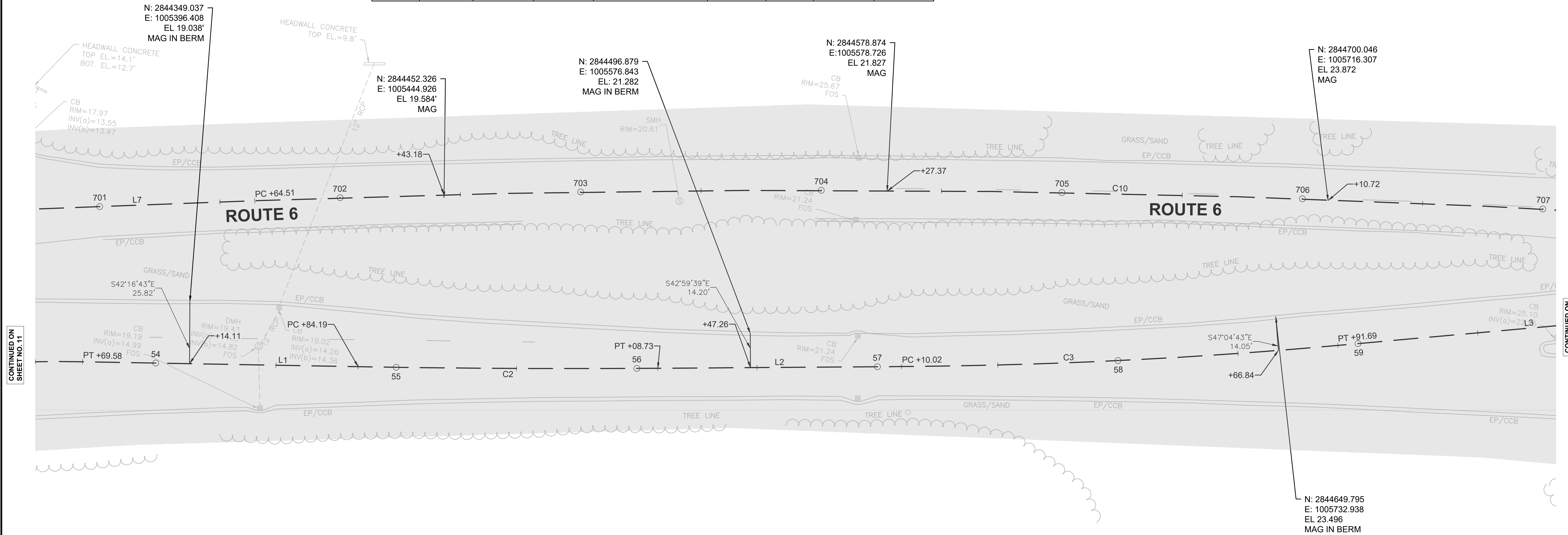
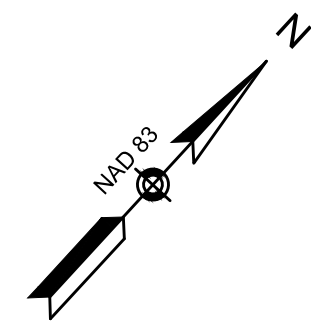
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	012	293
PROJECT FILE NO.		608744	

SURVEY CONTROL PLANS - 02

ROUTE 6 COMBINED CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	53+69.58	2844300.391	1005380.461		N48°25'58"E 114.60'	54+84.19	2844376.431	1005466.206
C2	54+84.19	2844376.431	1005466.206	R=5000.00' Δ=1°25'38" L=124.54' T=62.27'		56+08.73	2844460.214	1005558.345
L2	56+08.73	2844460.214	1005558.345		N47°00'21"E 101.29'	57+10.02	2844529.285	1005632.429
C3	57+10.02	2844529.285	1005632.429	R=2200.00' Δ=4°43'54" L=181.68' T=90.89'		58+91.69	2844658.519	1005760.049
L3	58+91.69	2844658.519	1005760.049		N42°16'27"E 112.92'	60+04.61	2844742.070	1005836.006

SHARED USE PATH CONSTRUCTION BASELINE DATA									
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING	
L7	700+25.50	2844300.236	1005289.206		N45°14'28"E 139.01'	701+64.51	2844398.120	1005387.916	
C10	701+64.51	2844398.120	1005387.916	R=6036.00' Δ=5°49'13" L=613.15' T=306.84'		707+77.66	2844807.014	1005844.457	



CONTINUED ON
SHEET NO. 11

CONTINUED ON
SHEET NO. 13

608744_HU(SC_RTE6).DWG Plotted on 1-Apr-2024 6:08 PM

NOTE:

- 1. ALL PROPOSED WORK WITHIN HATCHED AREA TO BE PERFORMED BY OTHERS.

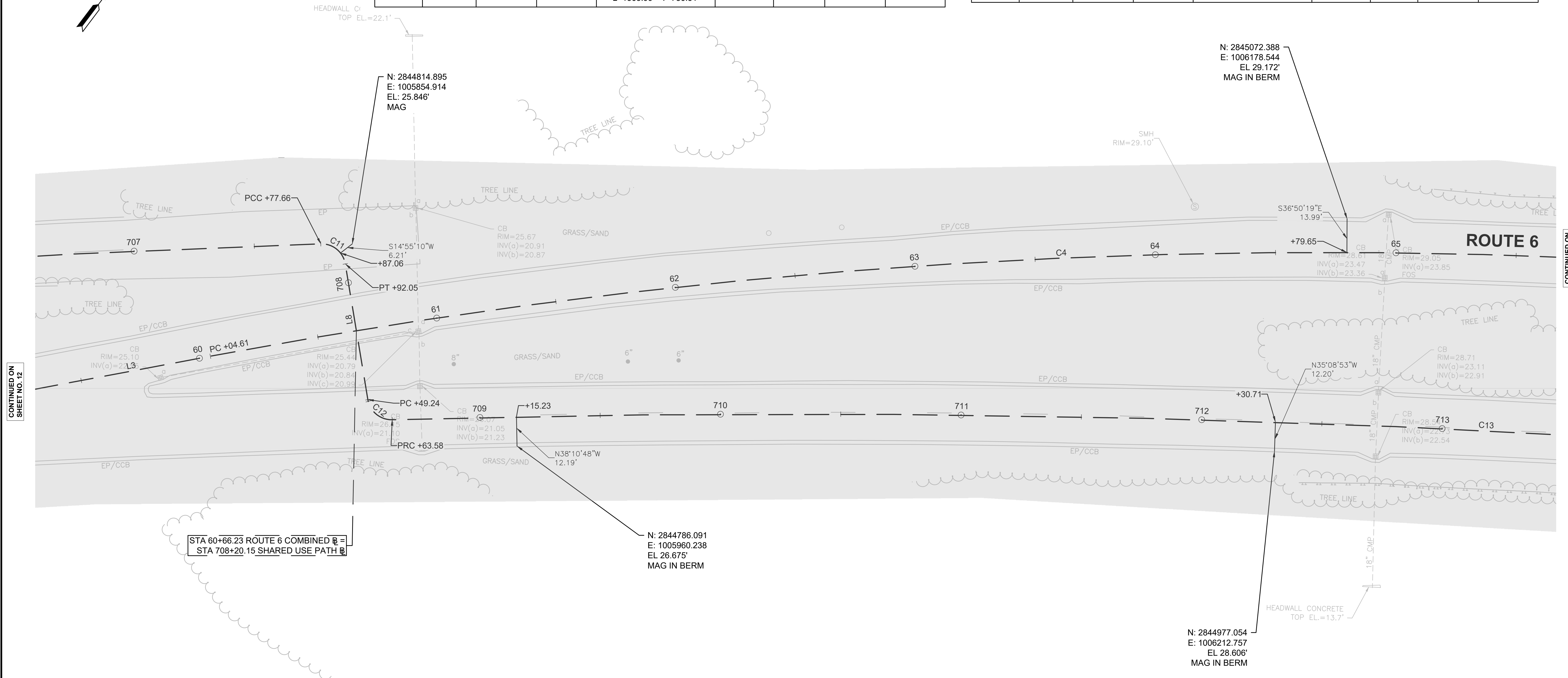
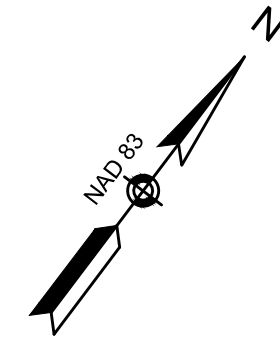
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	013	293
PROJECT FILE NO. 608744			

SURVEY CONTROL PLANS - 03

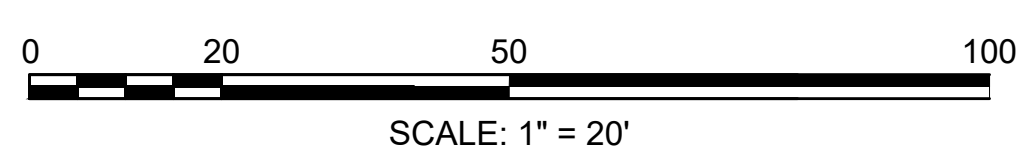
SHARED USE PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C11	707+77.66	2844807.014	1005844.457	R = 10.00' Δ = 82°26'16" L = 14.39' T = 8.76'		707+92.05	2844806.490	1005857.626
L8	707+92.05	2844806.490	1005857.626		S46°30'03"E 57.19'	708+49.24	2844767.122	1005899.112
C12	708+49.24	2844767.122	1005899.112	R = 10.00' Δ = 82°10'31" L = 14.34' T = 8.72'		708+63.58	2844766.569	1005912.245
C13	708+63.58	2844766.569	1005912.245	R = 5962.00' Δ = 15°01'49" L = 1563.99' T = 786.51'		724+27.57	2845573.532	1007246.743

ROUTE 6 COMBINED CONSTRUCTION BASELINE DATA										
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING		
L3	58+91.69	2844658.519	1005760.049		N42°16'27"E 112.92'	60+04.61	2844742.070	1005836.006		
C4	60+04.61	2844742.070	1005836.006	R = 2500.00' Δ = 14°12'57" L = 620.28' T = 311.74'		66+24.89	2845144.845	1006305.635		



CONTINUED ON SHEET NO. 12

CONTINUED ON SHEET NO. 14



608744_HU(SC_RTE6).DWG Plotted on 1-Apr-2024 6:09 PM

NOTE:

1. ALL PROPOSED WORK WITHIN HATCHED AREA TO BE PERFORMED BY OTHERS.

ROUTE 6 COMBINED CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C5	66+24.89	2845144.845	1006305.635	R=6036.00' Δ=9°51'50" L=1039.15' T=520.86'		76+64.04	2845641.314	1007217.056

SHARED USE PATH CONSTRUCTION BASELINE DATA

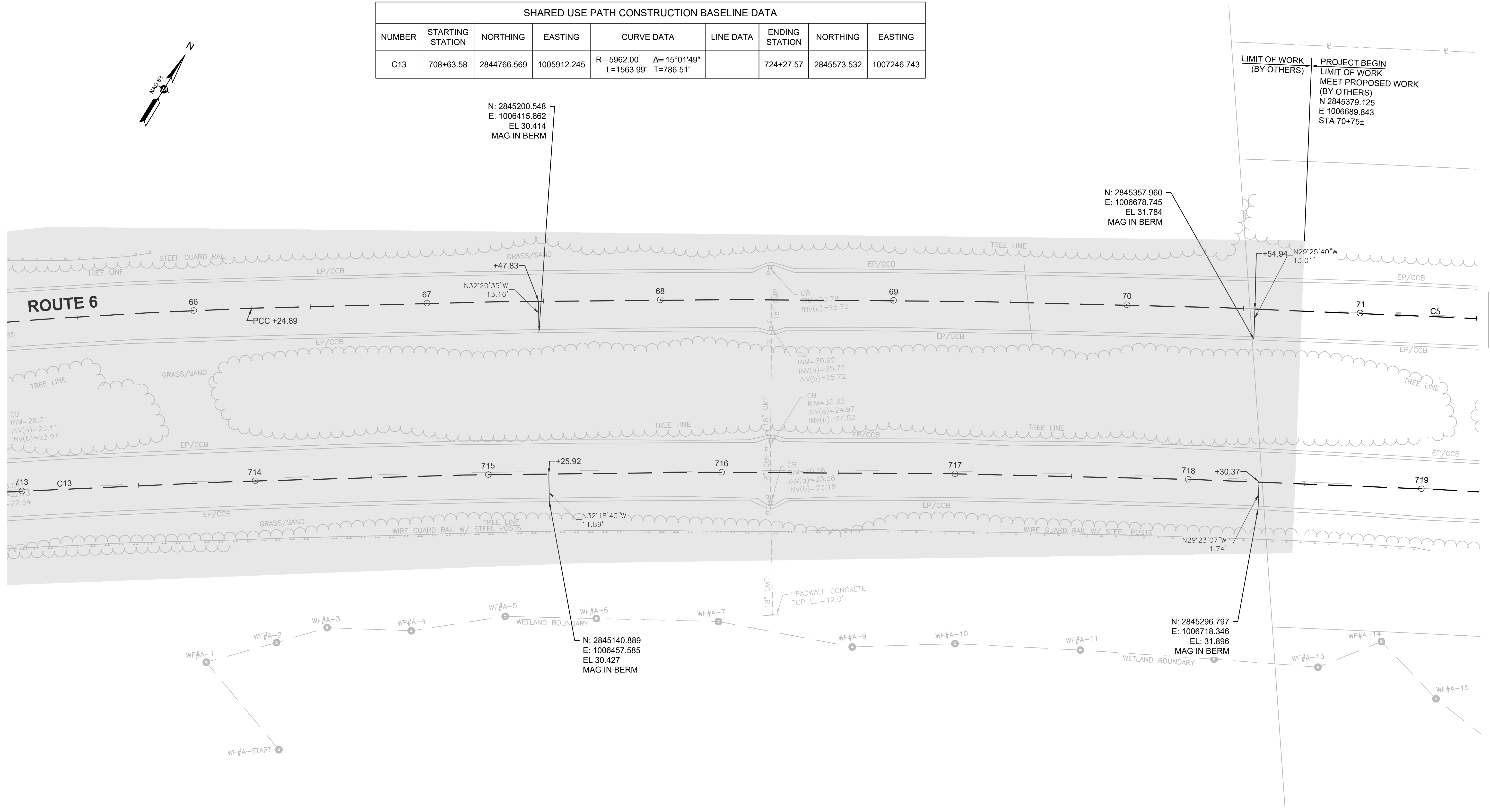
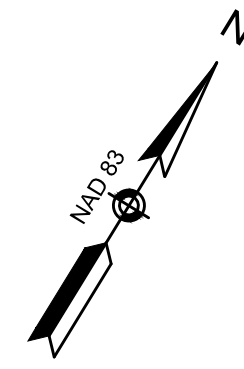
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C13	708+63.58	2844766.569	1005912.245	R=5962.00' Δ=15°01'49" L=1563.99' T=786.51'		724+27.57	2845573.532	1007246.743

PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	014	293

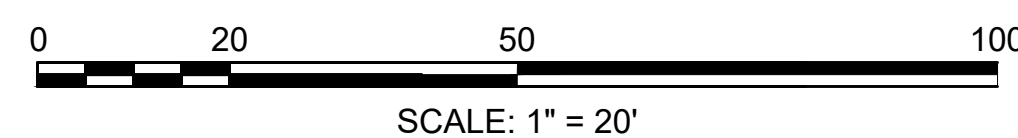
PROJECT FILE NO. 608744

SURVEY CONTROL PLANS - 04



CONTINUED ON SHEET NO. 13

CONTINUED ON SHEET NO. 15



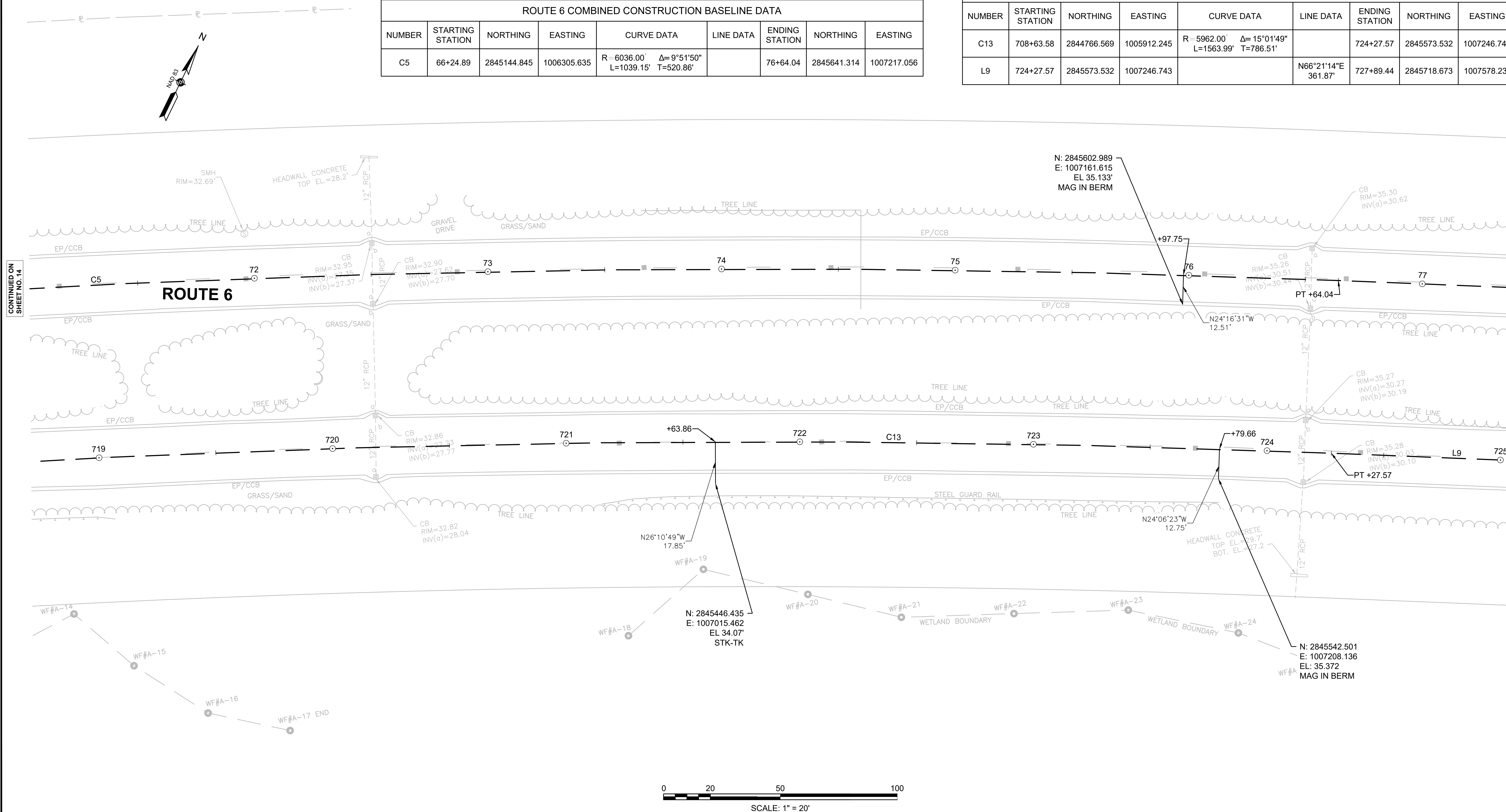
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	015	293
PROJECT FILE NO. 608744			

SURVEY CONTROL PLANS - 05

ROUTE 6 COMBINED CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C5	66+24.89	2845144.845	1006305.635	R=6036.00 Δ=9°51'50" L=1039.15' T=520.86'		76+64.04	2845641.314	1007217.056

SHARED USE PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C13	708+63.58	2844766.569	1005912.245	R=5962.00 Δ=15°01'49" L=1563.99' T=786.51'		724+27.57	2845573.532	1007246.743
L9	724+27.57	2845573.532	1007246.743		N66°21'14"E 361.87'	727+89.44	2845718.673	1007578.231



CONTINUED ON
SHEET NO. 14

CONTINUED ON
SHEET NO. 16

PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	016	293
PROJECT FILE NO.		608744	

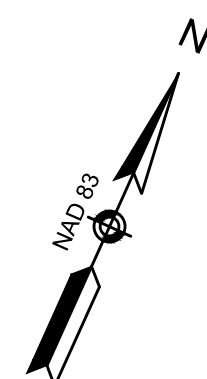
SURVEY CONTROL PLANS - 06

SHARED USE PATH CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L9	724+27.57	2845573.532	1007246.743		N66°21'14"E 361.87'	727+89.44	2845718.673	1007578.231
C14	727+89.44	2845718.673	1007578.231	R=6038.00' Δ=15°27'25" L=1628.90' T=819.43'		744+18.34	2846564.158	1008964.745

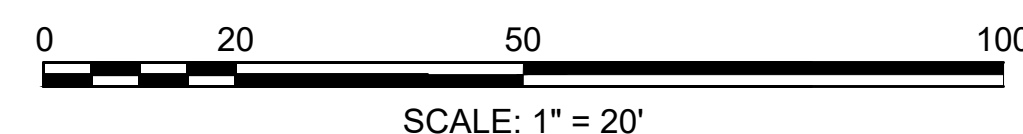
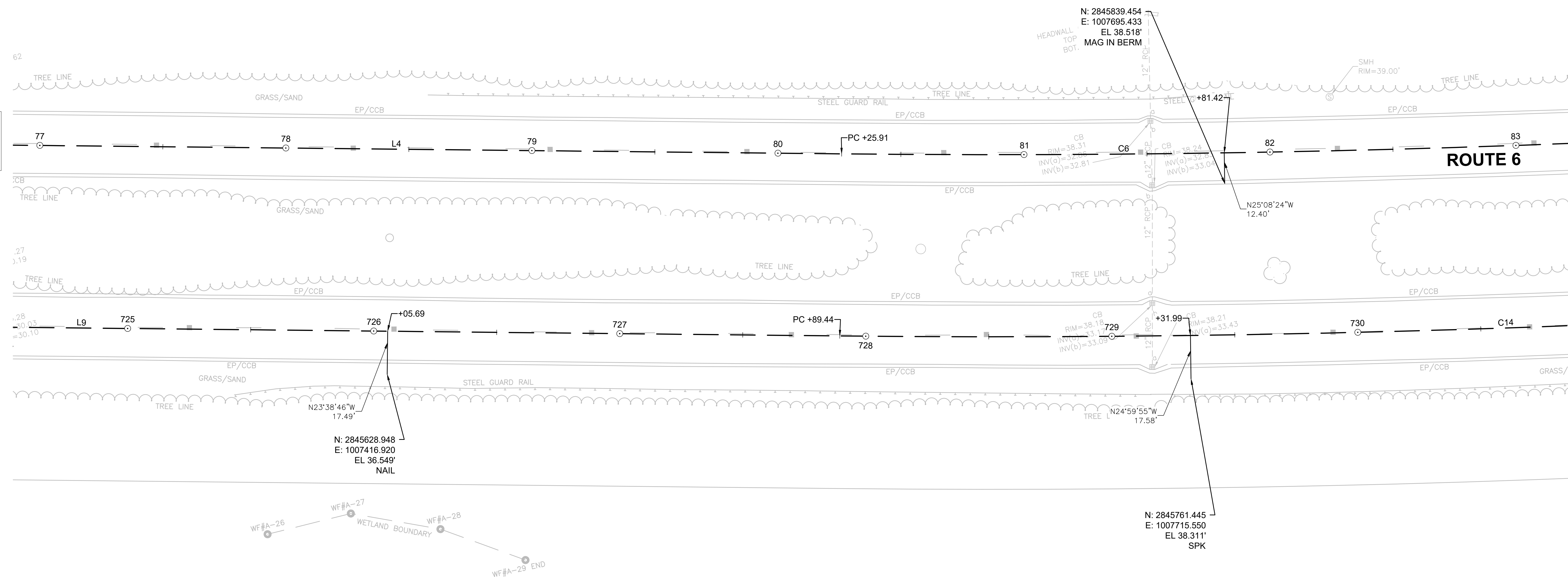
ROUTE 6 COMBINED CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L4	76+64.04	2845641.314	1007217.056		N66°21'14"E 361.87'	80+25.91	2845786.455	1007548.544
C6	80+25.91	2845786.455	1007548.544	R=5964.00' Δ=15°27'25" L=1608.94' T=809.38'		96+34.85	2846621.578	1008918.066



CONTINUED ON SHEET NO. 15

CONTINUED ON SHEET NO. 17



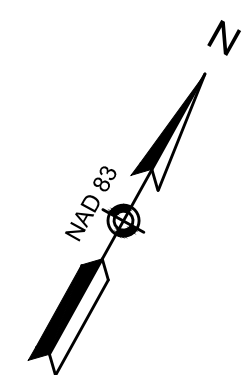
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	017	293
PROJECT FILE NO.		608744	

SURVEY CONTROL PLANS - 07

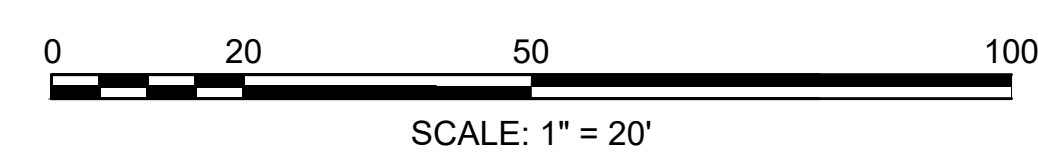
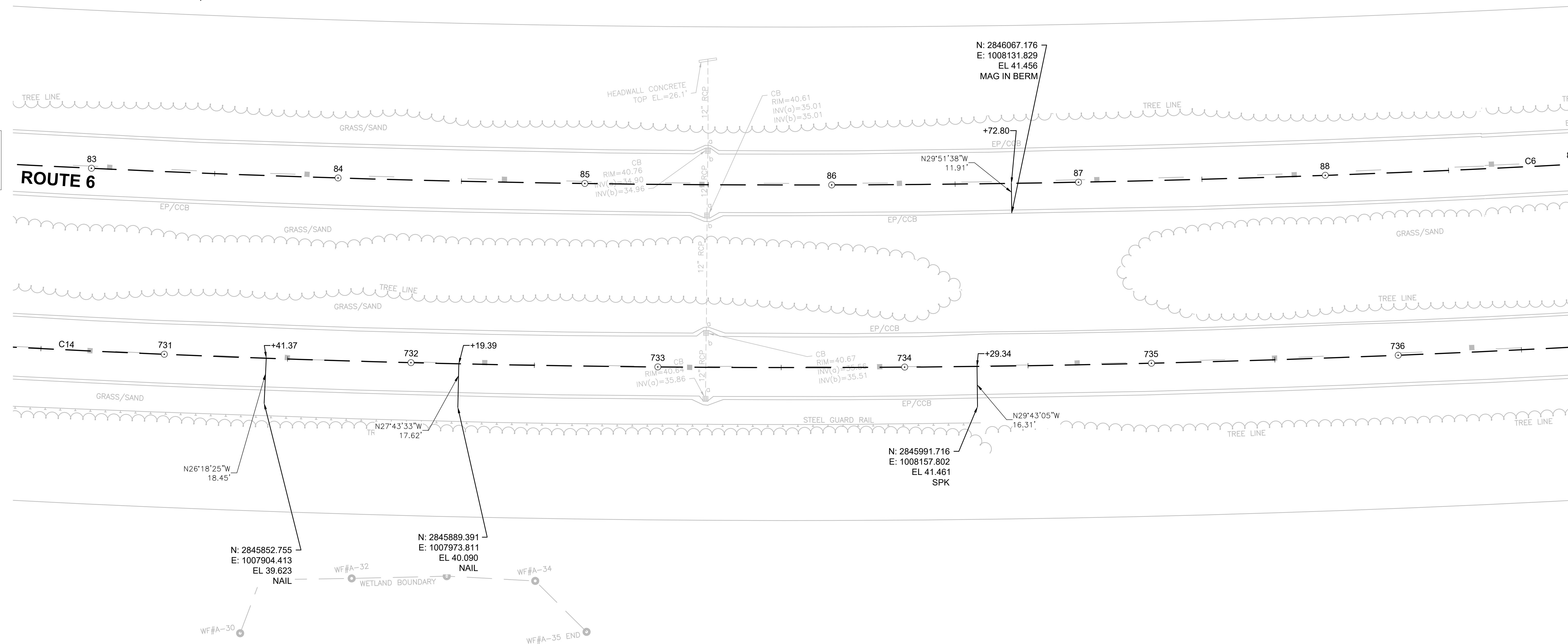
SHARED USE PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C14	727+89.44	2845718.673	1007578.231	R=6038.00' Δ=15°27'25" L=1628.90' T=819.43'		744+18.34	2846564.158	1008964.745

ROUTE 6 COMBINED CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C6	80+25.91	2845786.455	1007548.544	R=5964.00' Δ=15°27'25" L=1608.94' T=809.38'		96+34.85	2846621.578	1008918.066



CONTINUED ON SHEET NO. 16

CONTINUED ON SHEET NO. 18



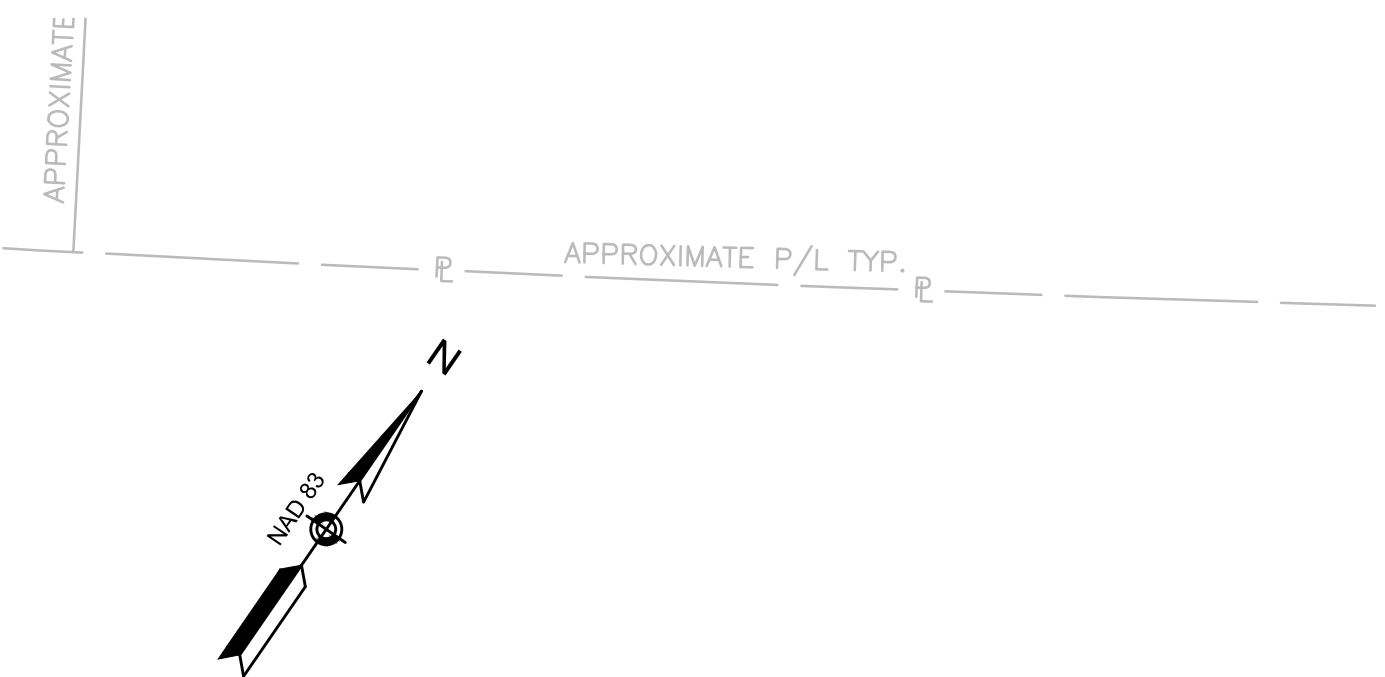
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	018	293
PROJECT FILE NO.		608744	

SURVEY CONTROL PLANS - 08

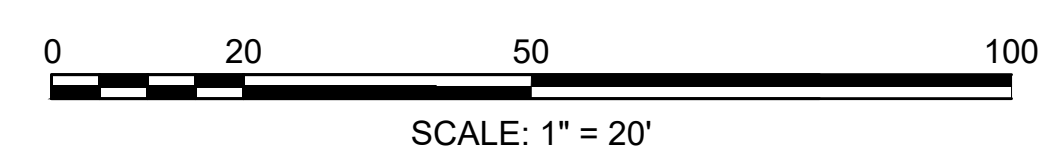
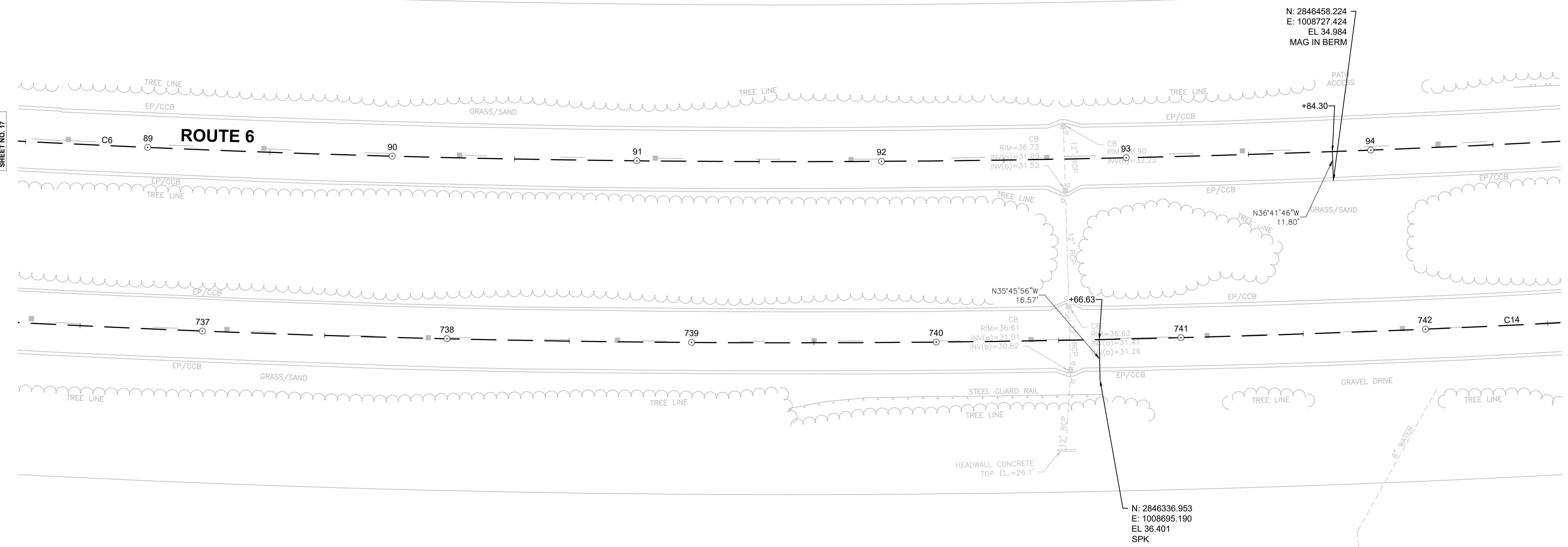
SHARED USE PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C14	727+89.44	2845718.673	1007578.231	R=6038.00' Δ=15°27'25" L=1628.90' T=819.43'		744+18.34	2846564.158	1008964.745

ROUTE 6 COMBINED CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C6	80+25.91	2845786.455	1007548.544	R=5964.00' Δ=15°27'25" L=1608.94' T=809.38'		96+34.85	2846621.578	1008918.066



CONTINUED ON SHEET NO. 17

CONTINUED ON SHEET NO. 19



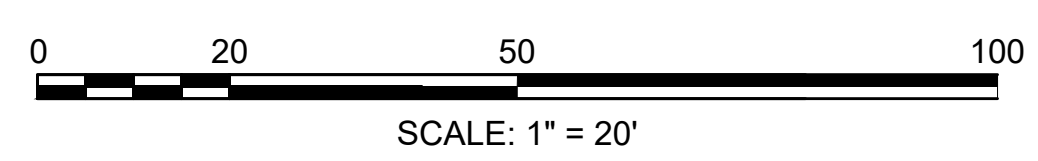
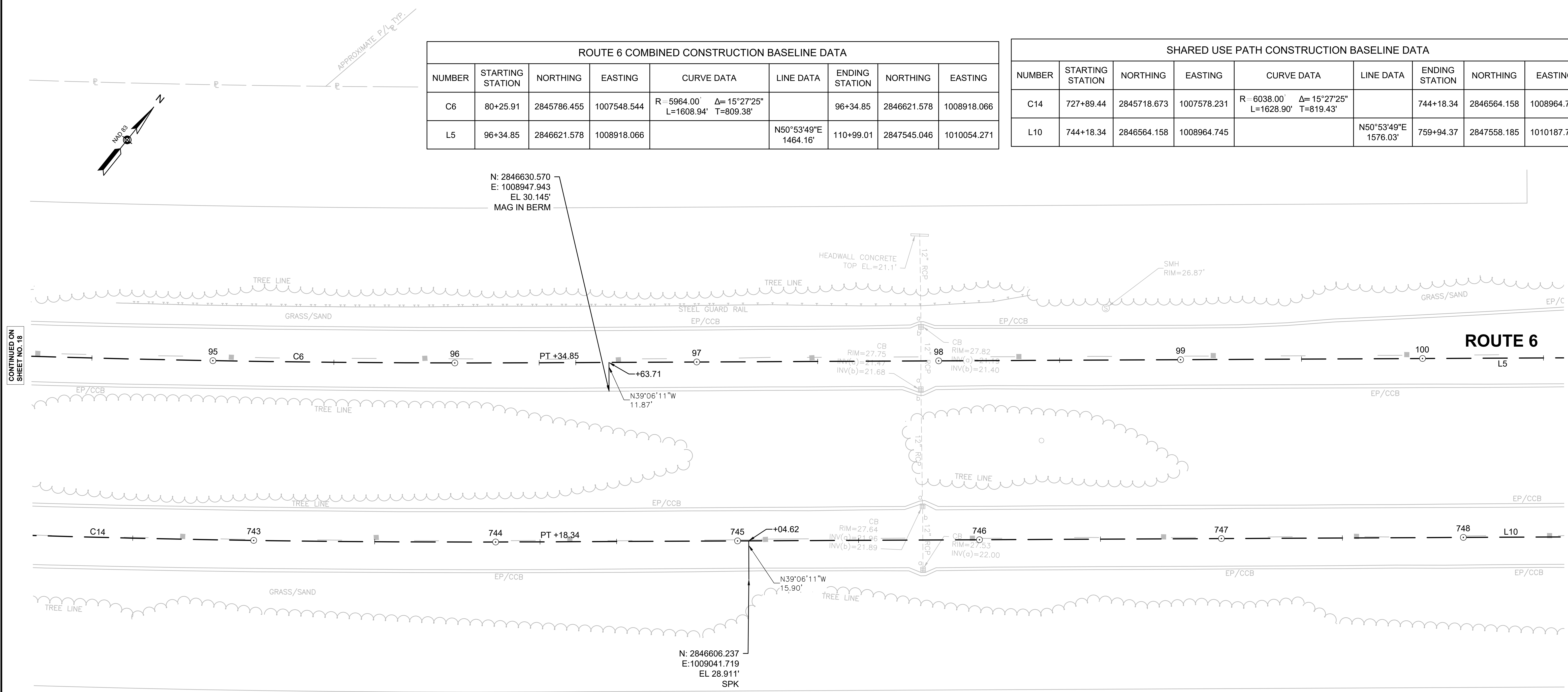
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	019	293
PROJECT FILE NO.		608744	

SURVEY CONTROL PLANS - 09

ROUTE 6 COMBINED CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C6	80+25.91	2845786.455	1007548.544	R = 5964.00' Δ = 15°27'25" L = 1608.94' T = 809.38'		96+34.85	2846621.578	1008918.066
L5	96+34.85	2846621.578	1008918.066		N50°53'49"E 1464.16'	110+99.01	2847545.046	1010054.271

SHARED USE PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C14	727+89.44	2845718.673	1007578.231	R = 6038.00' Δ = 15°27'25" L = 1628.90' T = 819.43'		744+18.34	2846564.158	1008964.745
L10	744+18.34	2846564.158	1008964.745		N50°53'49"E 1576.03'	759+94.37	2847558.185	1010187.764



CONTINUED ON
SHEET NO. 18

CONTINUED ON
SHEET NO. 20

608744_HU(SC_RTE6).DWG Plotted on 1-Apr-2024 6:11 PM

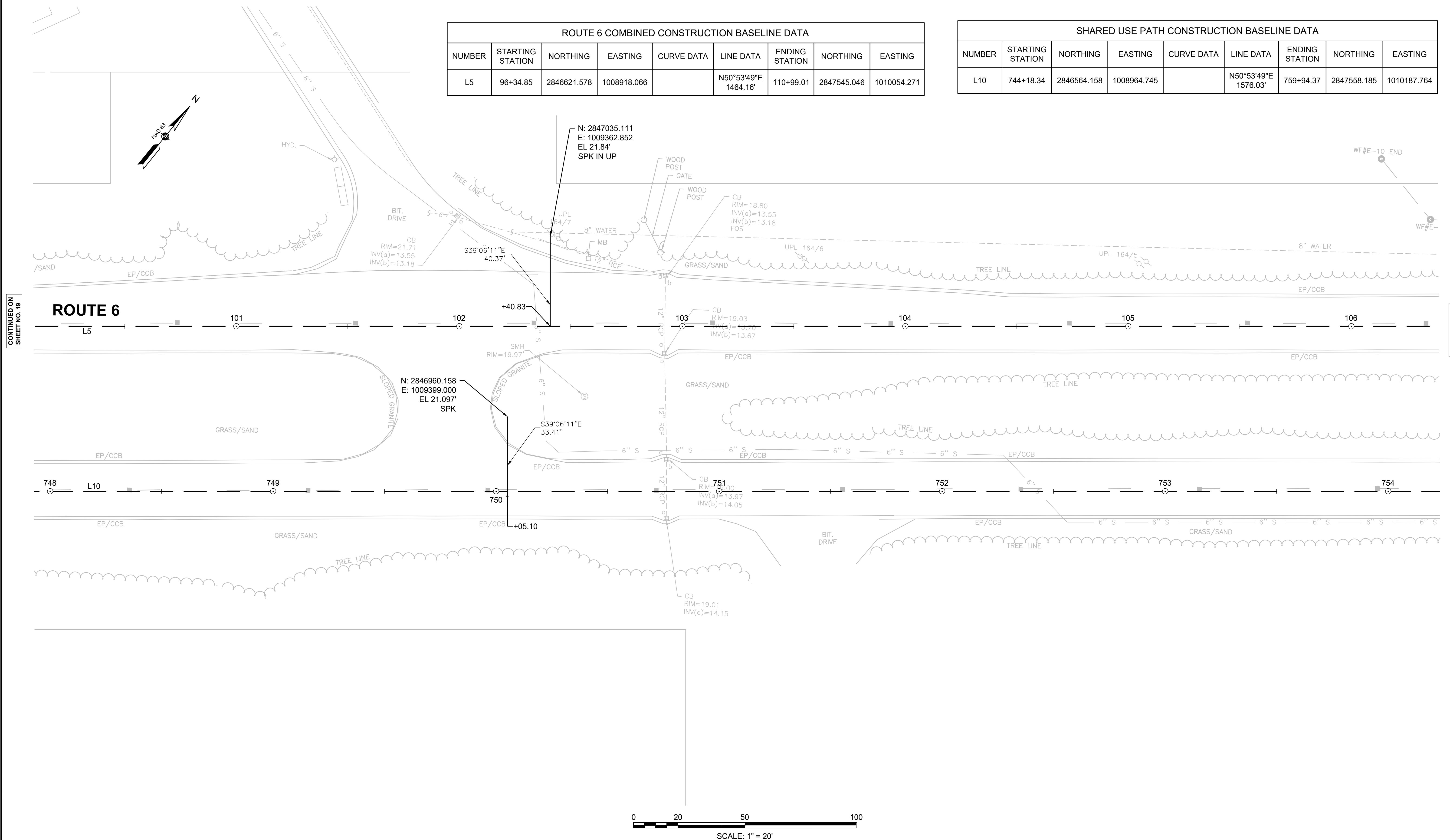
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	020	293
PROJECT FILE NO.		608744	

SURVEY CONTROL PLANS - 10

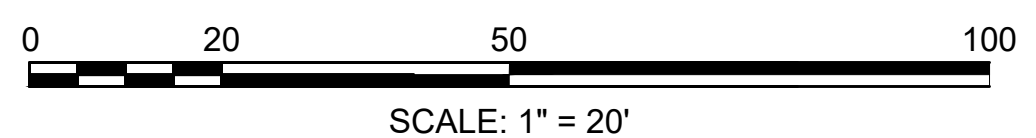
ROUTE 6 COMBINED CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L5	96+34.85	2846621.578	1008918.066		N50°53'49"E 1464.16'	110+99.01	2847545.046	1010054.271

SHARED USE PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L10	744+18.34	2846564.158	1008964.745		N50°53'49"E 1576.03'	759+94.37	2847558.185	1010187.764



CONTINUED ON SHEET NO. 19

CONTINUED ON SHEET NO. 21



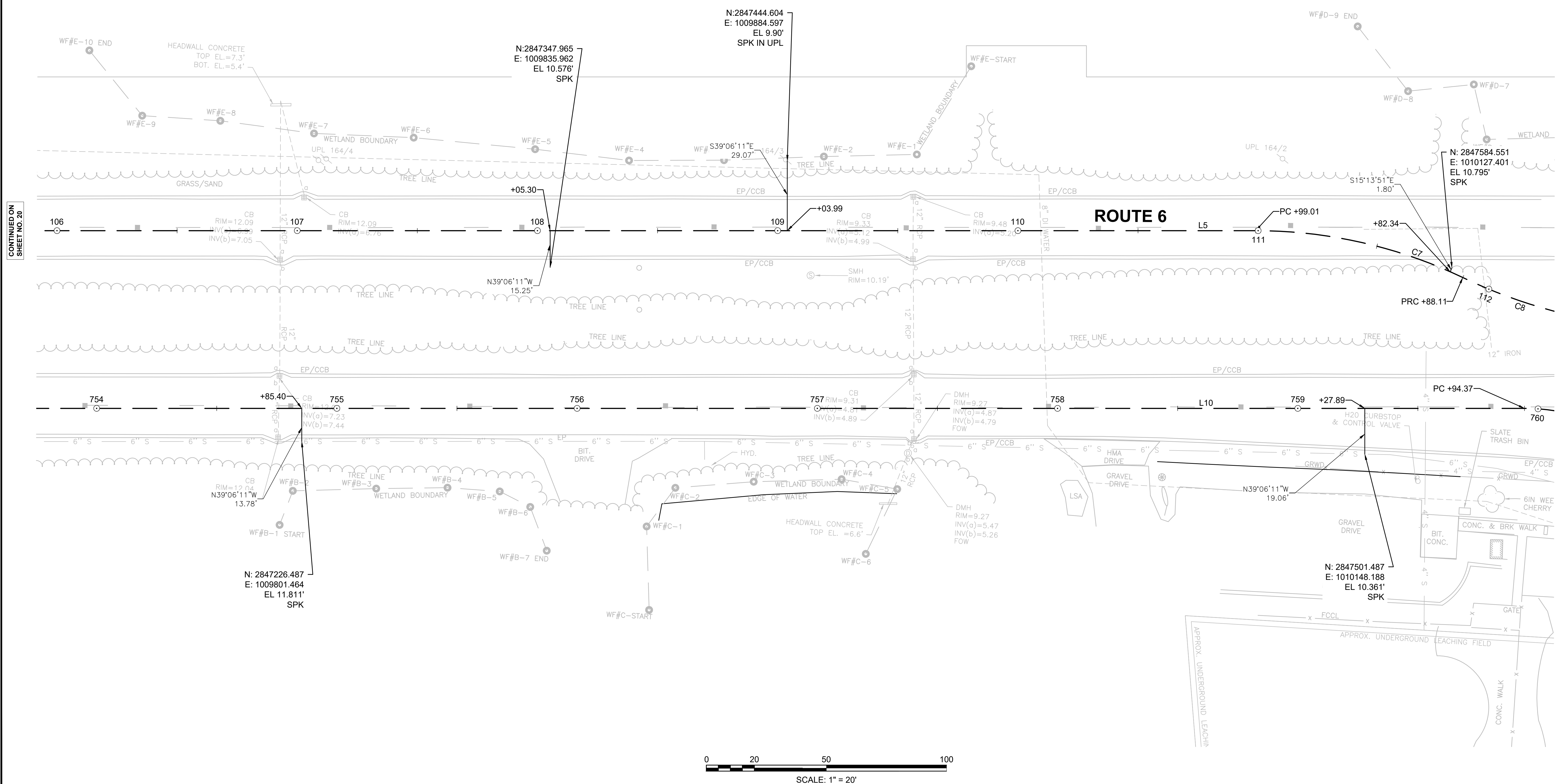
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	021	293
PROJECT FILE NO.		608744	

SURVEY CONTROL PLANS - 11

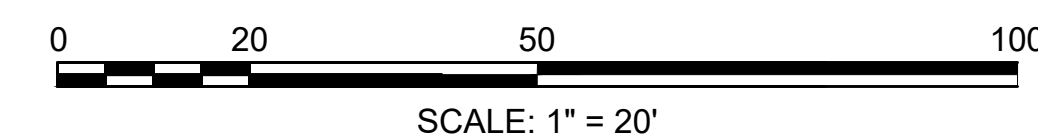
ROUTE 6 COMBINED CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C7	110+99.01	2847545.046	1010054.271	R=200.00' Δ=25°31'37" L=89.11' T=45.30'		111+88.11	2847584.255	1010133.467
C8	111+88.11	2847584.255	1010133.467	R=220.00' Δ=11°44'38" L=45.09' T=22.63'		112+33.21	2847599.242	1010175.913
L5	96+34.85	2846621.578	1008918.066		N50°53'49"E 1464.16'	110+99.01	2847545.046	1010054.271

SHARED USE PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L10	744+18.34	2846564.158	1008964.745		N50°53'49"E 1576.03'	759+94.37	2847558.185	1010187.764



CONTINUED ON
SHEET NO. 20

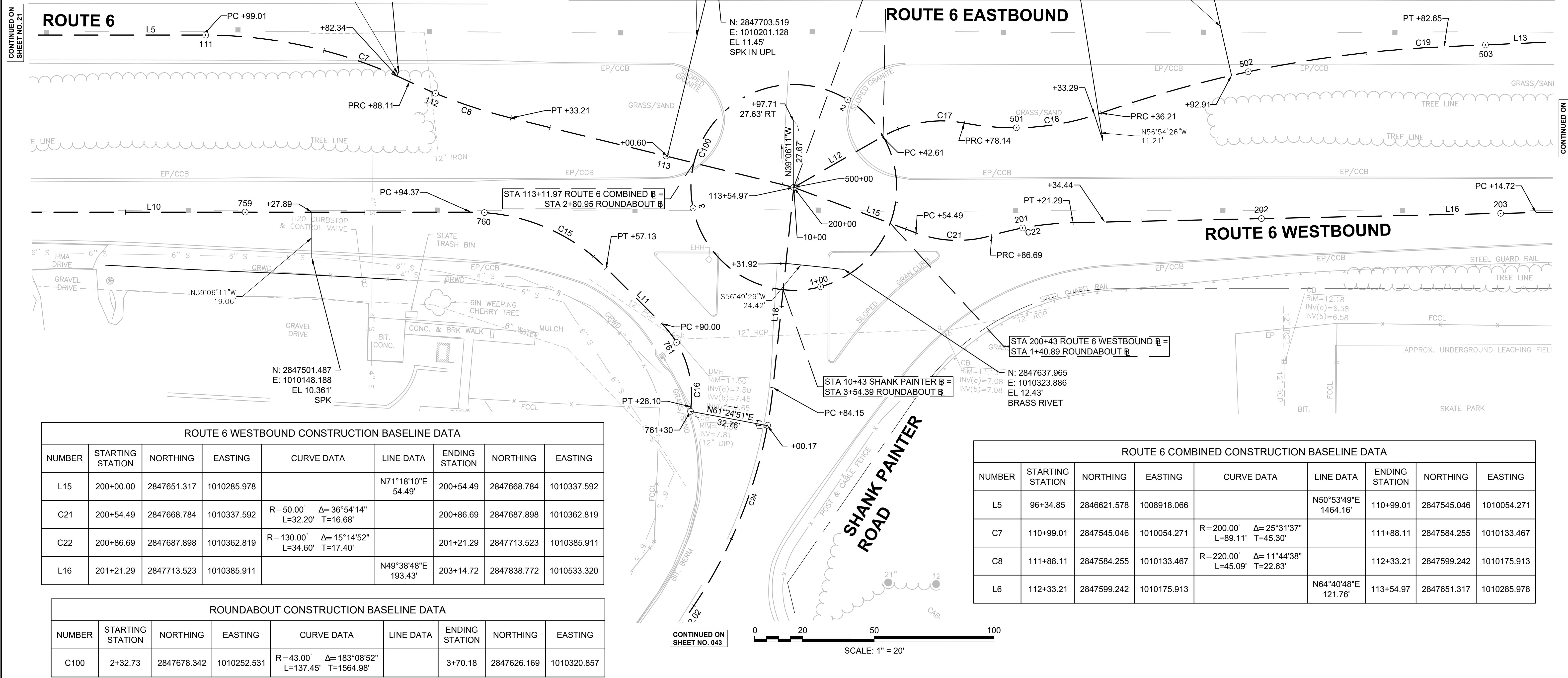
CONTINUED ON
SHEET NO. 22



ROUTE 6 EASTBOUND CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L12	500+00.00	2847651.317	1010285.978		N21°05'22"E 42.61'	500+42.61	2847691.069	1010301.308
C17	500+42.61	2847691.069	1010301.308	R= 50.00' Δ= 40°43'28" L=35.54' T=18.56'		500+78.14	2847717.149	1010324.342
C18	500+78.14	2847717.149	1010324.342	R= 110.00' Δ= 30°14'32" L=58.06' T=29.72'		501+36.21	2847756.513	1010366.104
C19	501+36.21	2847756.513	1010366.104	R= 500.00' Δ= 16°46'54" L=146.45' T=73.75'		502+82.65	2847868.360	1010459.829
L13	502+82.65	2847868.360	1010459.829		N48°21'12"E 78.22'	503+60.87	2847920.340	1010518.280

SHARED USE PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C16	760+90.00	2847572.341	1010279.066	R= 42.43' Δ= 51°26'39" L=38.10' T=20.44'		761+28.10	2847553.058	1010310.450
C15	759+94.37	2847558.185	1010187.764	R= 80.00' Δ= 44°56'53" L=62.76' T=33.09'		760+57.13	2847575.688	1010246.368
L11	760+57.13	2847575.688	1010246.368		S84°09'18"E 32.87'	760+90.00	2847572.341	1010279.066
L10	744+18.34	2846564.158	1008964.745		N50°53'49"E 1576.03'	759+94.37	2847558.185	1010187.764

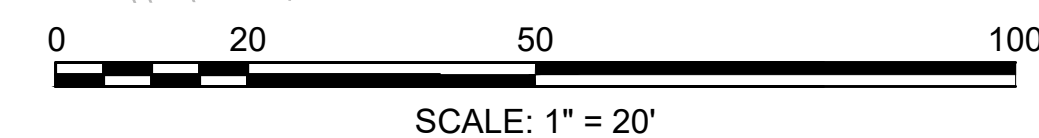
SHANK PAINTER CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L18	10+00.00	2847651.317	1010285.978		S33°10'31"E 84.15'	10+84.15	2847580.885	1010332.024
C24	10+84.15	2847580.885	1010332.024	R= 200.00' Δ= 28°02'20" L=97.87' T=49.94'		11+82.02	2847489.350	1010363.820



ROUTE 6 WESTBOUND CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L15	200+00.00	2847651.317	1010285.978		N71°18'10"E 54.49'	200+54.49	2847668.784	1010337.592
C21	200+54.49	2847668.784	1010337.592	R= 50.00' Δ= 36°54'14" L=32.20' T=16.68'		200+86.69	2847687.898	1010362.819
C22	200+86.69	2847687.898	1010362.819	R= 130.00' Δ= 15°14'52" L=34.60' T=17.40'		201+21.29	2847713.523	1010385.911
L16	201+21.29	2847713.523	1010385.911		N49°38'48"E 193.43'	203+14.72	2847838.772	1010533.320

ROUTE 6 COMBINED CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L5	96+34.85	2846621.578	1008918.066		N50°53'49"E 1464.16'	110+99.01	2847545.046	1010054.271
C7	110+99.01	2847545.046	1010054.271	R= 200.00' Δ= 25°31'37" L=89.11' T=45.30'		111+88.11	2847584.255	1010133.467
C8	111+88.11	2847584.255	1010133.467	R= 220.00' Δ= 11°44'38" L=45.09' T=22.63'		112+33.21	2847599.242	1010175.913
L6	112+33.21	2847599.242	1010175.913		N64°40'48"E 121.76'	113+54.97	2847651.317	1010285.978

ROUNDBOUT CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C100	2+32.73	2847678.342	1010252.531	R= 43.00' Δ= 183°08'52" L=137.45' T=1564.98'		3+70.18	2847626.169	1010320.857



CONTINUED ON SHEET NO. 21

CONTINUED ON SHEET NO. 23

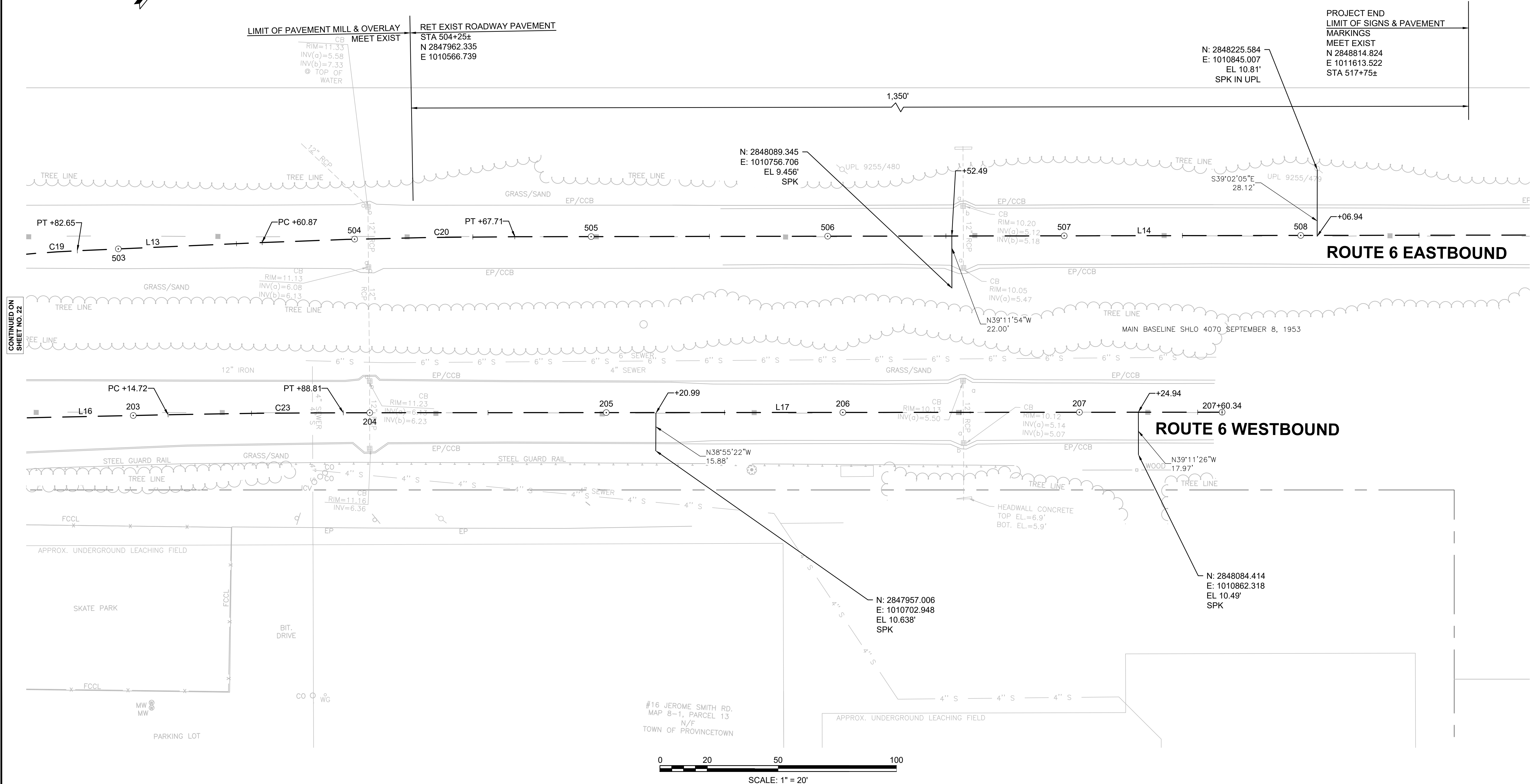
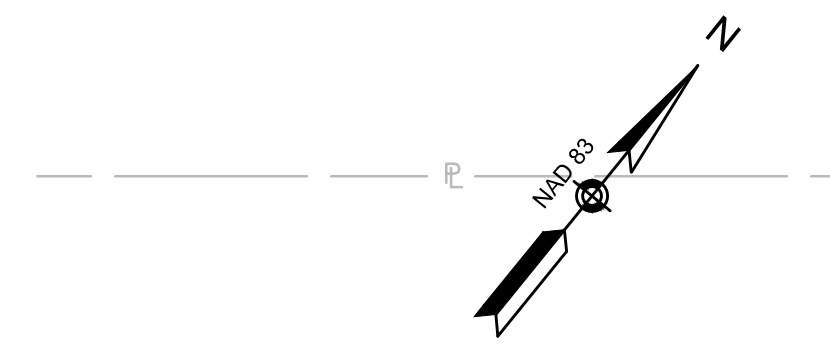
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	023	293
PROJECT FILE NO.		608744	

SURVEY CONTROL PLANS - 13

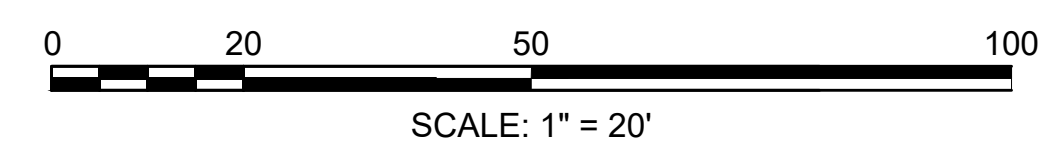
ROUTE 6 EASTBOUND CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C19	501+36.21	2847756.513	1010366.104	R=500.00' Δ=16°46'54" L=146.45' T=73.75'		502+82.65	2847868.360	1010459.829
L13	502+82.65	2847868.360	1010459.829		N48°21'12"E 78.22'	503+60.87	2847920.340	1010518.280
C20	503+60.87	2847920.340	1010518.280	R=2500.00' Δ=2°26'55" L=106.84' T=53.43'		504+67.71	2847989.611	1010599.608
L14	504+67.71	2847989.611	1010599.608		N50°48'06"E 532.29'	510+00.00	2848326.019	1011012.111

ROUTE 6 WESTBOUND CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L16	201+21.29	2847713.523	1010385.911		N49°38'48"E 193.43'	203+14.72	2847838.772	1010533.320
C23	203+14.72	2847838.772	1010533.320	R=3500.00' Δ=1°12'46" L=74.09' T=37.04'		203+88.81	2847886.142	1010590.283
L17	203+88.81	2847886.142	1010590.283		N50°51'34"E 371.53'	207+60.34	2848120.661	1010878.441



CONTINUED ON SHEET NO. 22

#16 JEROME SMITH RD.
MAP 8-1, PARCEL 13
N/F
TOWN OF PROVINCETOWN



608744_HU(SC_RTE6).DWG Plotted on 1-Apr-2024 6:13 PM

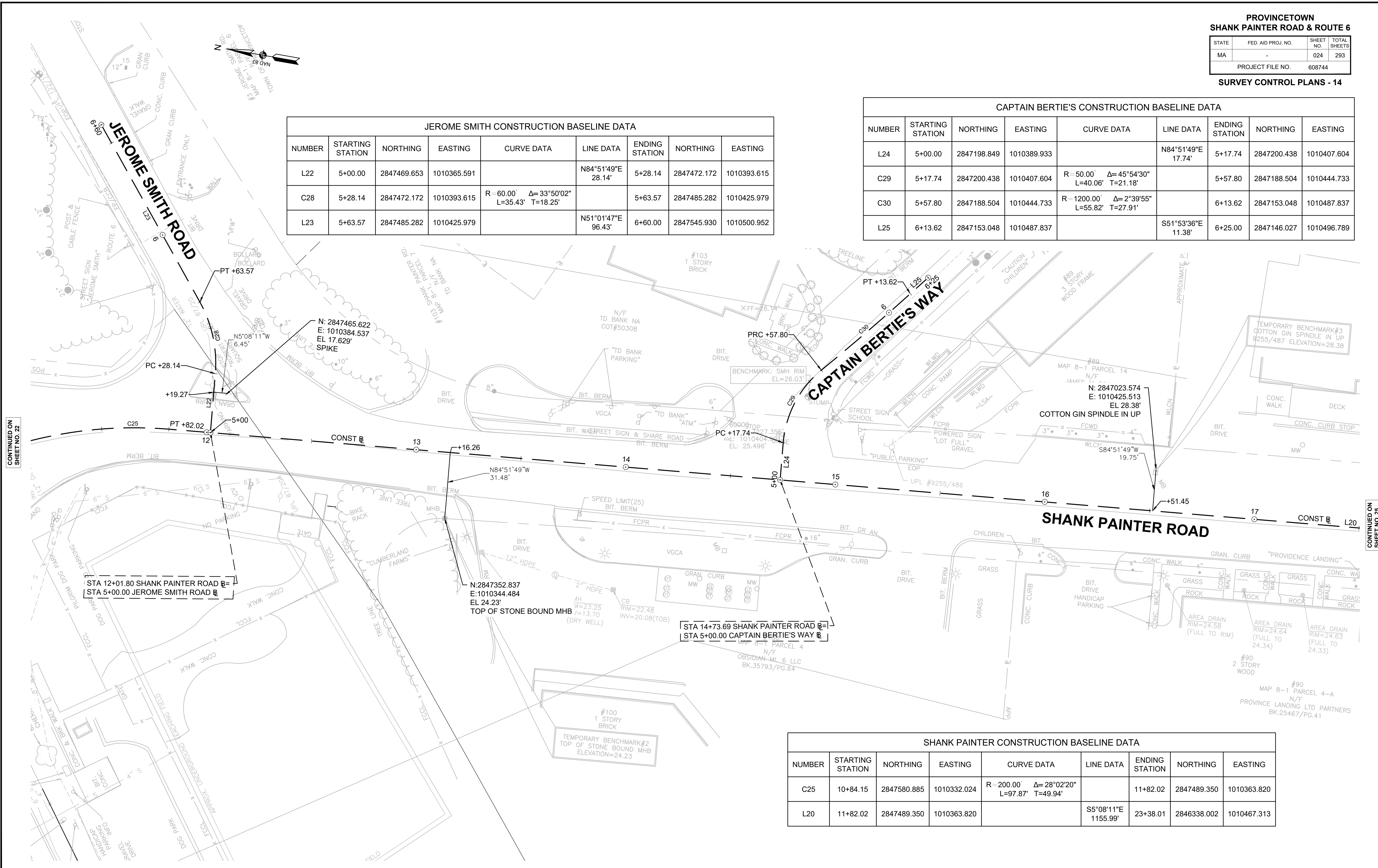
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	024	293
PROJECT FILE NO. 608744			

SURVEY CONTROL PLANS - 14

JEROME SMITH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L22	5+00.00	2847469.653	1010365.591		N84°51'49"E 28.14'	5+28.14	2847472.172	1010393.615
C28	5+28.14	2847472.172	1010393.615	R=60.00' Δ=33°50'02" L=35.43' T=18.25'		5+63.57	2847485.282	1010425.979
L23	5+63.57	2847485.282	1010425.979		N51°01'47"E 96.43'	6+60.00	2847545.930	1010500.952

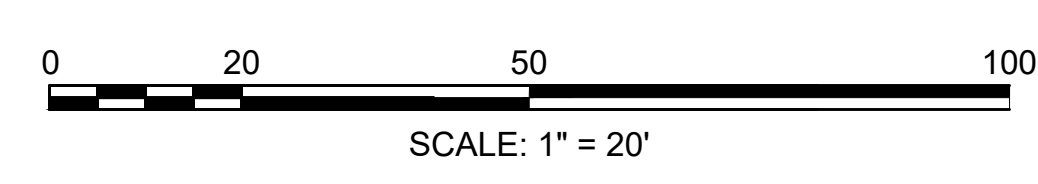
CAPTAIN BERTIE'S CONSTRUCTION BASELINE DATA									
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING	
L24	5+00.00	2847198.849	1010389.933		N84°51'49"E 17.74'	5+17.74	2847200.438	1010407.604	
C29	5+17.74	2847200.438	1010407.604	R=50.00' Δ=45°54'30" L=40.06' T=21.18'		5+57.80	2847188.504	1010444.733	
C30	5+57.80	2847188.504	1010444.733	R=1200.00' Δ=2°39'55" L=56.82' T=27.91'		6+13.62	2847153.048	1010487.837	
L25	6+13.62	2847153.048	1010487.837		S51°53'36"E 11.38'	6+25.00	2847146.027	1010496.789	



CONTINUED ON
SHEET NO. 22

CONTINUED ON
SHEET NO. 25

SHANK PAINTER CONSTRUCTION BASELINE DATA									
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING	
C25	10+84.15	2847580.885	1010332.024	R=200.00' Δ=28°02'20" L=97.87' T=49.94'		11+82.02	2847489.350	1010363.820	
L20	11+82.02	2847489.350	1010363.820		S5°08'11"E 1155.99'	23+38.01	2846338.002	1010467.313	

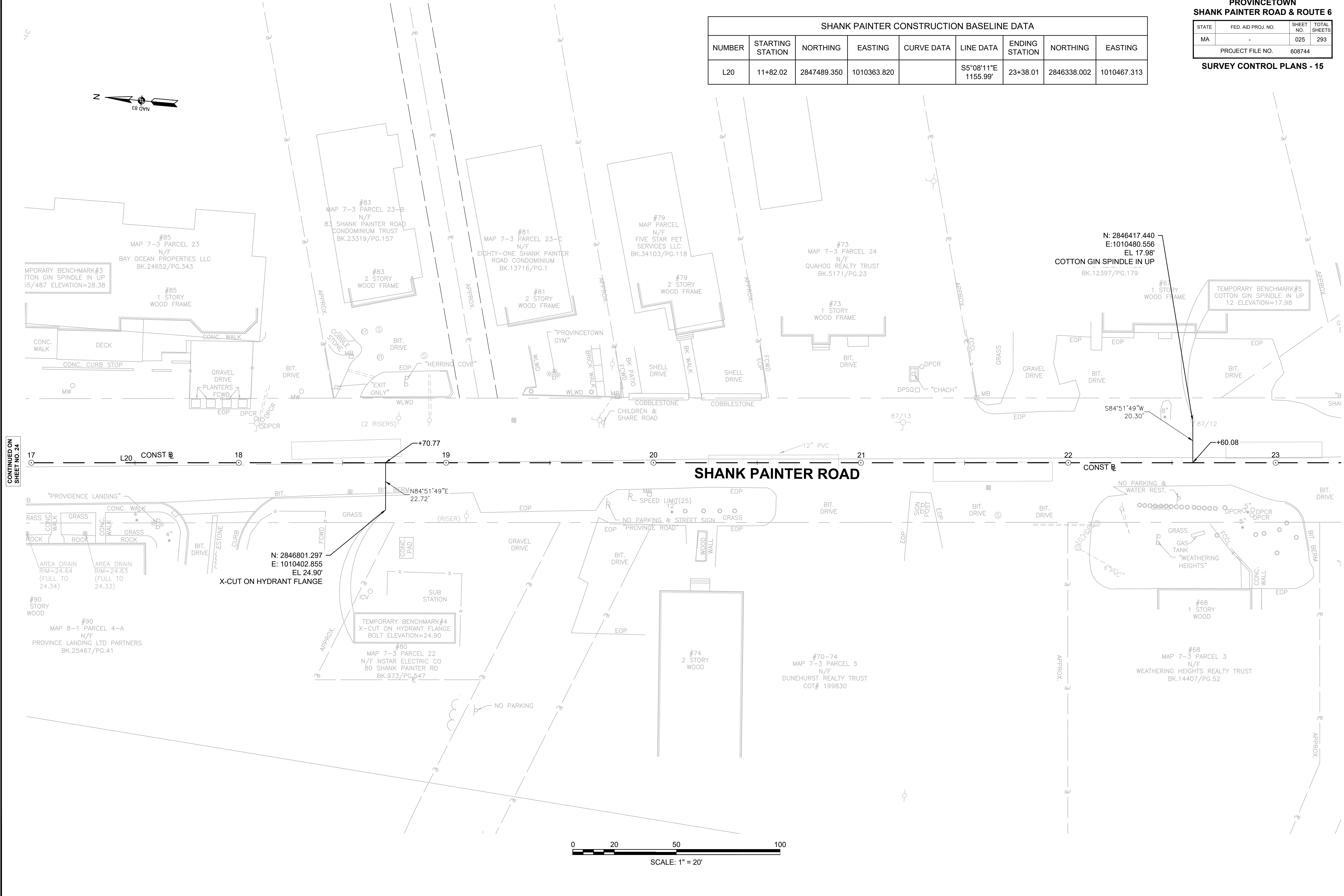


**PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	025	293
PROJECT FILE NO.		608744	

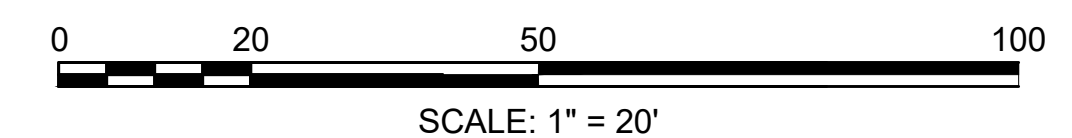
SURVEY CONTROL PLANS - 15

SHANK PAINTER CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L20	11+82.02	2847489.350	1010363.820		S5°08'11"E 1155.99'	23+38.01	2846338.002	1010467.313



CONTINUED ON SHEET NO. 24

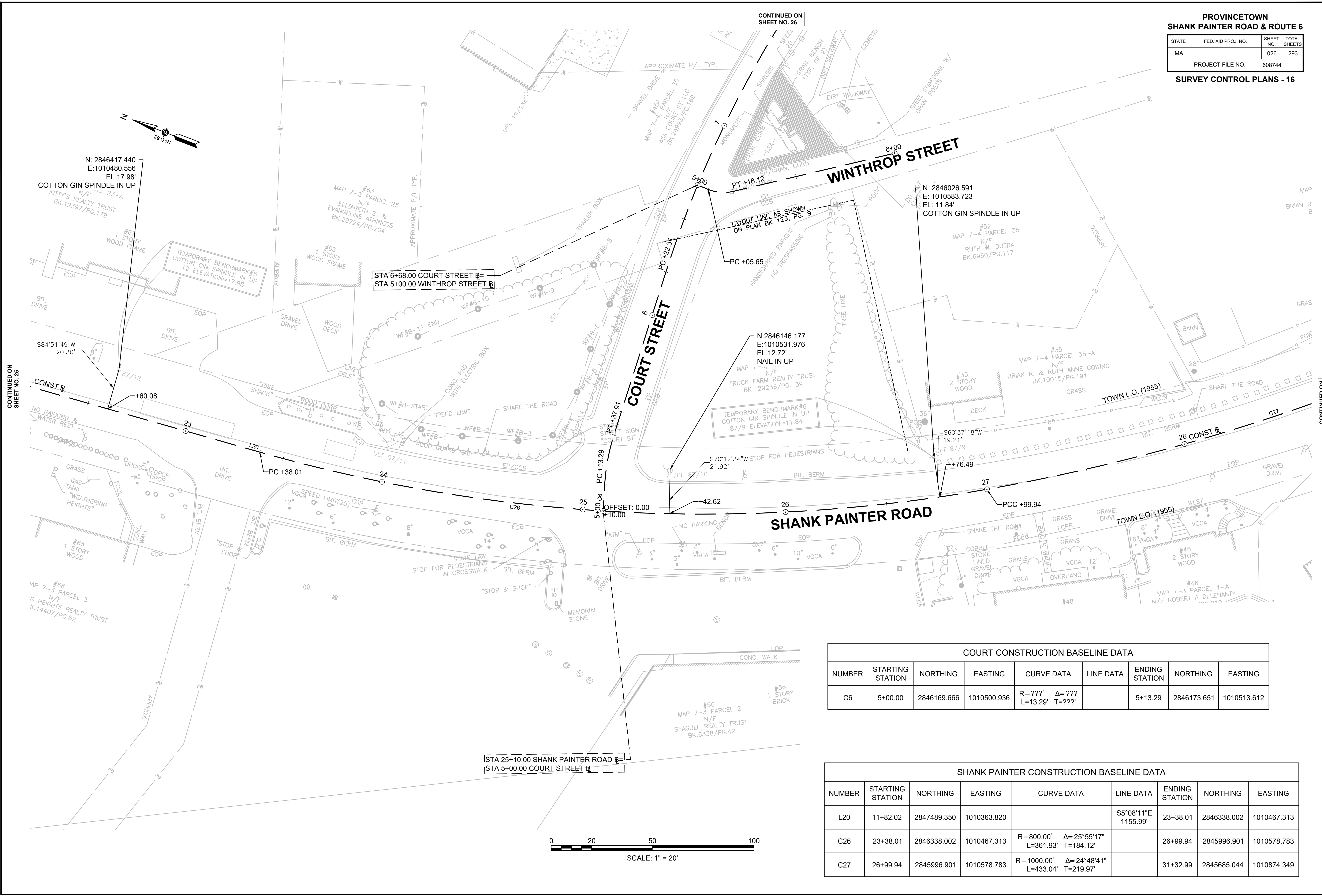
CONTINUED ON SHEET NO. 26



PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	026	293
PROJECT FILE NO.		608744	

SURVEY CONTROL PLANS - 16



COURT CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C6	5+00.00	2846169.666	1010500.936	R=???' Δ=???' L=13.29' T=???'		5+13.29	2846173.651	1010513.612

SHANK PAINTER CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L20	11+82.02	2847489.350	1010363.820		S5°08'11"E 1155.99'	23+38.01	2846338.002	1010467.313
C26	23+38.01	2846338.002	1010467.313	R=800.00' Δ=25°55'17" L=361.93' T=184.12'		26+99.94	2845996.901	1010578.783
C27	26+99.94	2845996.901	1010578.783	R=1000.00' Δ=24°48'41" L=433.04' T=219.97'		31+32.99	2845685.044	1010874.349

CONTINUED ON SHEET NO. 25

CONTINUED ON SHEET NO. 27

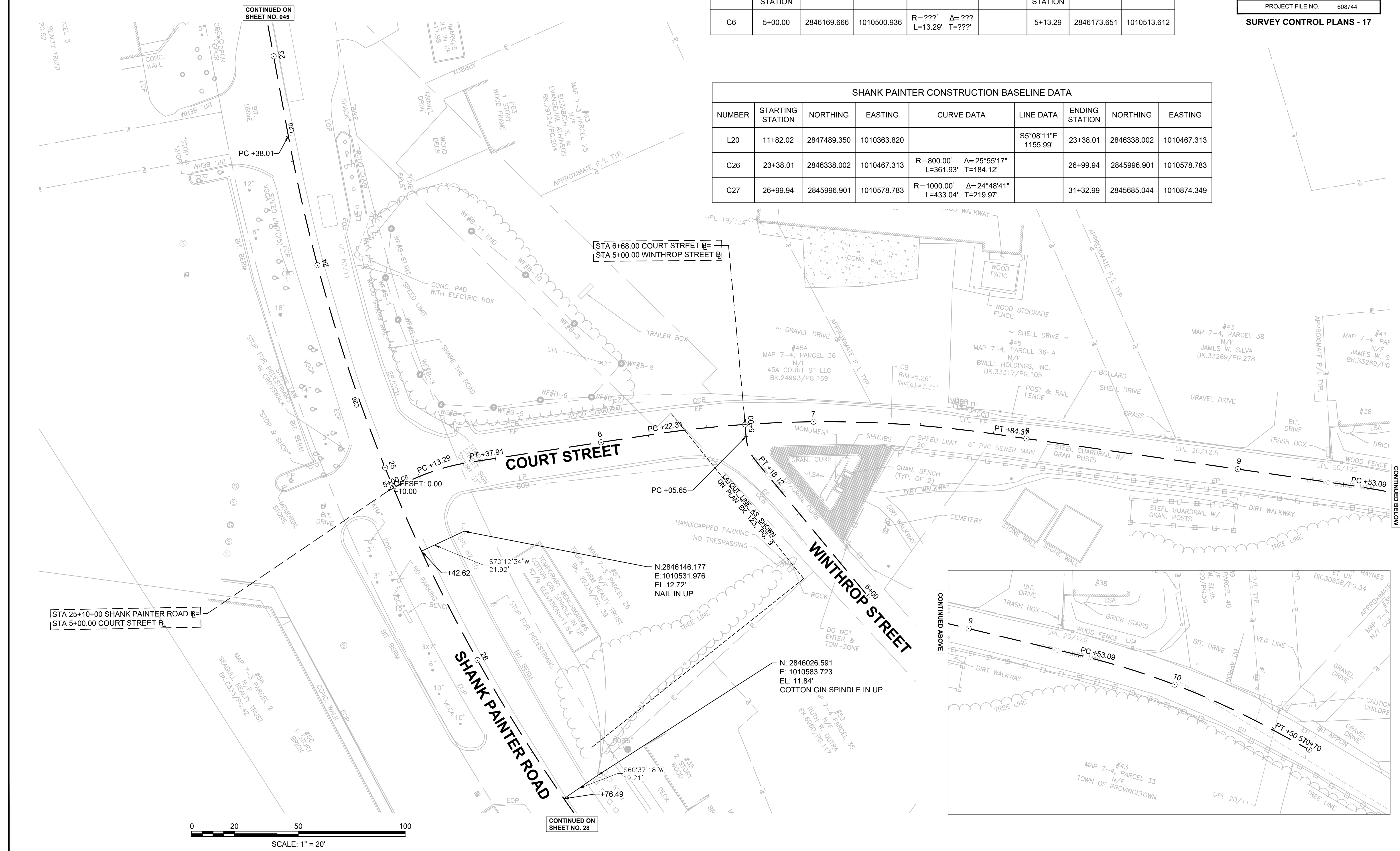
**PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	027	293
PROJECT FILE NO. 608744			

SURVEY CONTROL PLANS - 17

COURT CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C6	5+00.00	2846169.666	1010500.936	R=??? Δ=??? L=13.29' T=???		5+13.29	2846173.651	1010513.612

SHANK PAINTER CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L20	11+82.02	2847489.350	1010363.820		S5°08'11"E 1155.99'	23+38.01	2846338.002	1010467.313
C26	23+38.01	2846338.002	1010467.313	R=800.00 Δ=25°55'17" L=361.93' T=184.12'		26+99.94	2845996.901	1010578.783
C27	26+99.94	2845996.901	1010578.783	R=1000.00 Δ=24°48'41" L=433.04' T=219.97'		31+32.99	2845685.044	1010874.349



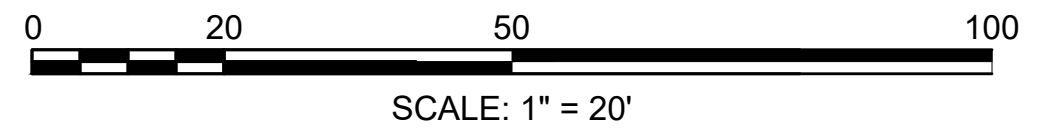
CEL 3
REALTY TRUST
PG.52

CONTINUED ON
SHEET NO. 045

STA 6+68.00 COURT STREET =
STA 5+00.00 WINTHROP STREET

STA 25+10+00 SHANK PAINTER ROAD =
STA 5+00.00 COURT STREET

CONTINUED ON
SHEET NO. 28



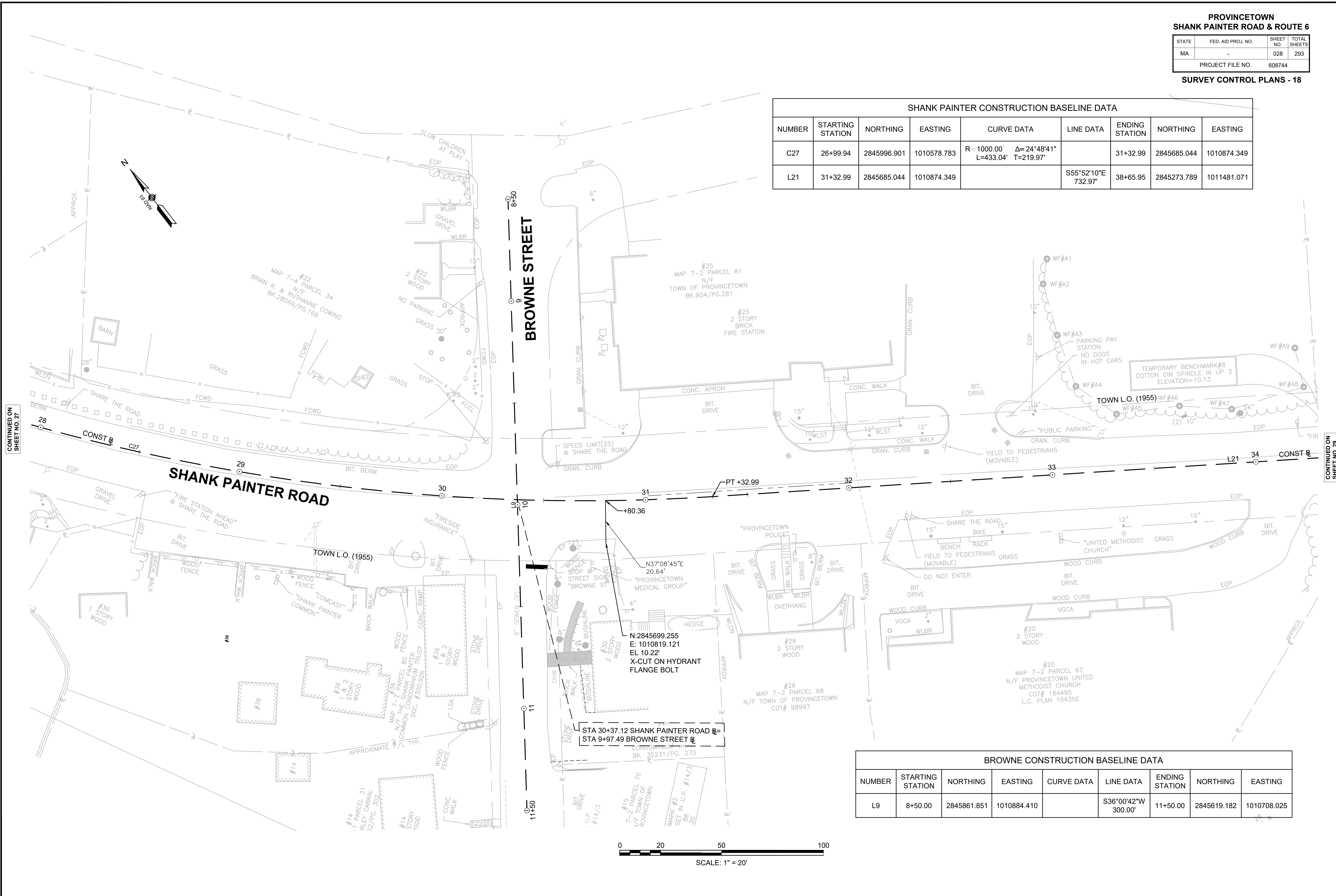
PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	028	293
PROJECT FILE NO. 608744			

SURVEY CONTROL PLANS - 18

SHANK PAINTER CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C27	26+99.94	2845996.901	1010578.783	R=1000.00' Δ=24°48'41" L=433.04' T=219.97'		31+32.99	2845685.044	1010874.349
L21	31+32.99	2845685.044	1010874.349		S55°52'10"E 732.97'	38+65.95	2845273.789	1011481.071

BROWNE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L9	8+50.00	2845861.851	1010884.410		S36°00'42"W 300.00'	11+50.00	2845619.182	1010708.025



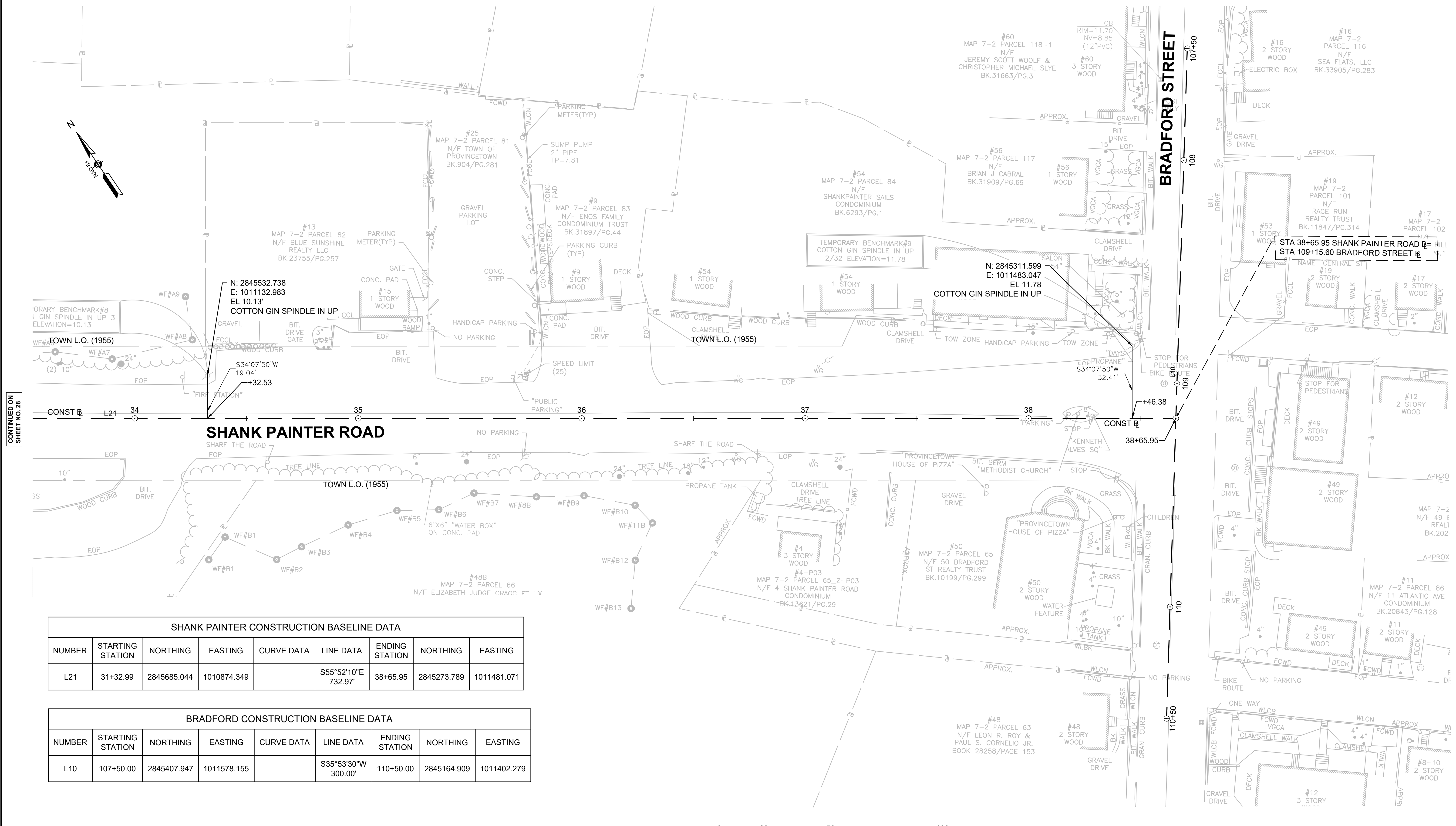
CONTINUED ON SHEET NO. 27

CONTINUED ON SHEET NO. 29

**PROVINCETOWN
SHANK PAINTER ROAD & ROUTE 6**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	029	293
PROJECT FILE NO. 608744			

SURVEY CONTROL PLANS - 19



CONTINUED ON SHEET NO. 28

SHANK PAINTER CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L21	31+32.99	2845685.044	1010874.349		S55°52'10"E 732.97'	38+65.95	2845273.789	1011481.071

BRADFORD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L10	107+50.00	2845407.947	1011578.155		S35°53'30"W 300.00'	110+50.00	2845164.909	1011402.279

