

# MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	01	48
PROJECT FILE NO.		607825	

TITLE SHEET & INDEX

## PLAN AND PROFILE OF SHARED-USE PATH PHASE 3A

IN THE TOWN OF  
**WAREHAM**  
PLYMOUTH COUNTY

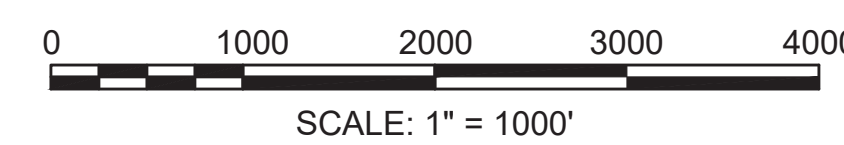
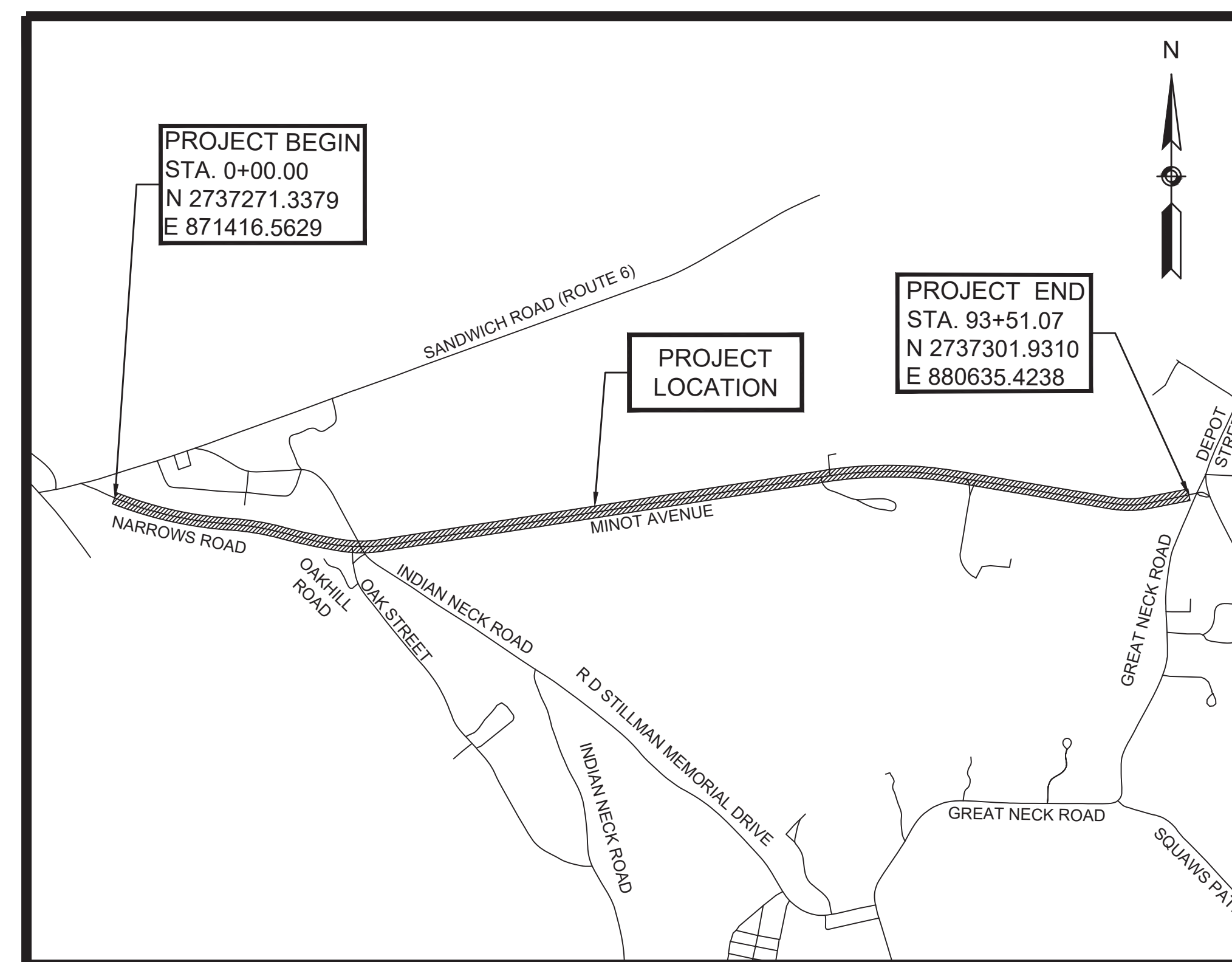
FEDERAL AID PROJECT NO. : T.B.D.

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED APRIL 1, 2019, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH 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, WILL GOVERN.

# 25% SUBMITTAL

### INDEX

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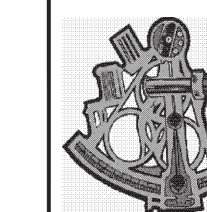
LENGTH OF PROJECT = 9351.07 FEET = 1.77 MILES

### DESIGN DESIGNATION

DESIGN SPEED	MINOT AVENUE	NARROWS ROAD	SHARED USE PATH
	35 MPH	35 MPH	20 MPH
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL	MINOR ARTERIAL	SHARED USE PATH

DATE	DESCRIPTION	REV #
02-14-2020	25% SUBMISSION	0

#### PLAN PREPARED BY:



**JC ENGINEERING, INC.**  
Civil & Environmental Engineering  
2854 Cranberry Highway  
East Wareham, Massachusetts 02538  
Ph. 508-273-0377 - Fax: 508-273-0367



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
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
		BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		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
		HAY BALES/SILT FENCE
		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
		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)
		RAILROAD SIGNAL
		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
		MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

**PAVEMENT MARKINGS SYMBOLS**

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE
		CROSSWALK
		SOLID WHITE LINE
		SOLID YELLOW LINE
		BROKEN WHITE LINE
		BROKEN YELLOW LINE
		DOTTED WHITE LINE
		DOTTED YELLOW LINE
		DOTTED WHITE LINE EXTENSION
		DOTTED YELLOW LINE EXTENSION
		DOUBLE WHITE LINE
		DOUBLE YELLOW LINE

**ABBREVIATIONS**

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

**TOWN OF WAREHAM SHARED-USE PATH PHASE 3A**

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**LEGEND & ABBREVIATIONS**

**ABBREVIATIONS (cont.)**

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

**TRAFFIC SIGNAL ABBREVIATIONS**

CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FRL	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FYL	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

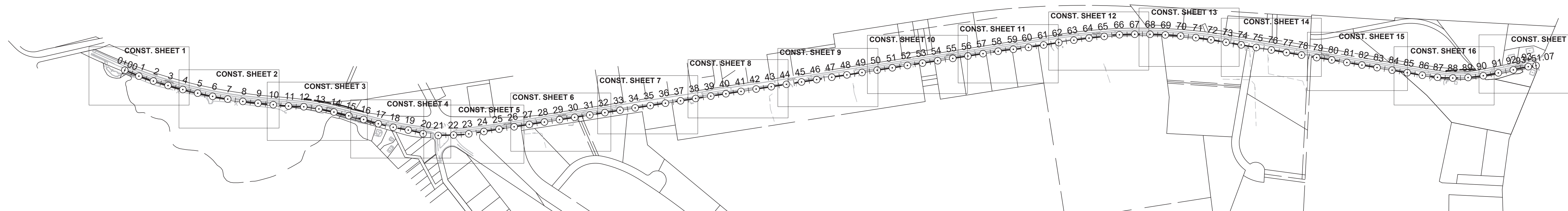
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KEY PLAN

- THE EXISTING TOPOGRAPHIC CONDITIONS SHOWN ON THESE PLANS CONSIST OF ON-THE-GROUND SURVEY INSTRUMENT SURVEY PERFORMED BY JC ENGINEERING, INC. BETWEEN OCTOBER 9, 2018 AND JANUARY 22, 2020 .
- COORDINATES ARE PROVIDED IN US SURVEY FEET, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83). ELEVATIONS ARE PROVIDED IN US SURVEY FEET, REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM FIELD SURVEYS AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND ACTUAL FIELD CONDITIONS ENCOUNTERED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THIS INFORMATION FURNISHED TO THE ENGINEER.
- THE RELOCATION, INSTALLATION OR REMOVAL OF PRIVATE UTILITIES SHALL BE ACCOMPLISHED BY THEIR OWNERS, EXCEPT AS OTHERWISE NOTED. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE PRIVATE UTILITY COMPANIES AND ALLOW THEM ADEQUATE TIME TO COMPLETE THEIR WORK IN ADVANCE OF PERFORMING ANY PAVING OPERATIONS OR OTHER FINISHED WORK.
- AREAS OUTSIDE OF THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-DIG-SAFE AT LEAST 72 HOURS PRIOR TO COMMENCING WORK ON THE PROJECT.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND FOR MAINTAINING COMPOST FILTER TUBES, AND OTHER EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE CONTRACT AT AREAS WHERE SHOWN ON THE PLANS AND DIRECTED BY THE ENGINEER.
- NO EXISTING DRAINAGE SYSTEMS SHALL BE ABANDONED, PLUGGED OR REMOVED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL. SAFETY CODES AND LEGAL REQUIREMENTS, IN THE CONSTRUCTION OF IMPROVEMENTS.
- ALL EXISTING PIPING AND STRUCTURES EXPOSED DURING EXCAVATION SHALL BE ADEQUATELY SUPPORTED, BRACED OR OTHERWISE PROTECTED DURING CONSTRUCTION ACTIVITIES. EXCAVATIONS SHALL BE BACK FILLED DAILY AT THE COMPLETION OF WORK.
- UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE AT ALL TIMES. IF THE CONTRACTOR DAMAGES UTILITY SYSTEMS, HE SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL REPAIR/REPLACE THE AFFECTED SYSTEM AT HIS OWN EXPENSE.
- ALL MATERIALS TO BE REMOVED AND DISCARDED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING OF ALL EXCAVATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND REGULATIONS. ALL PROPOSED EXCAVATION SUPPORT SYSTEMS SHALL BE CONSIDERED INCIDENTAL TO THE APPLICABLE ITEMS.
- THE TEMPORARY TRAFFIC CONTROL PLANS INDICATE THE GENERAL REQUIREMENTS FOR THE VARIOUS PHASES OF WORK. THE CONTRACTOR SHALL SUBMIT DETAILED TRAFFIC MANAGEMENT PLANS TO THE ENGINEER FOR APPROVAL.
- THE FLOW OF TRAFFIC THROUGH THE SITE MUST BE MAINTAINED AS SHOWN ON THE TRAFFIC CONTROL PLANS AND SPECIFIED IN THE SPECIAL PROVISIONS. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL NOT BE PARKED OR STOCKPILED SO AS TO OBSTRUCT THE FLOW OF VEHICLES.
- ALL CATCH BASIN RIM ELEVATIONS ARE GIVEN AT THE CENTER OF THE BACK OF THE GRATE. CATCH BASIN SHALL BE SET FLUSH WITH THE ROADWAY FINISHED GRADE.
- ALL CATCH BASINS, UNLESS NOTED OTHERWISE, SHALL HAVE A 4' DEEP SUMP PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COMPENSATION.
- 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 SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.

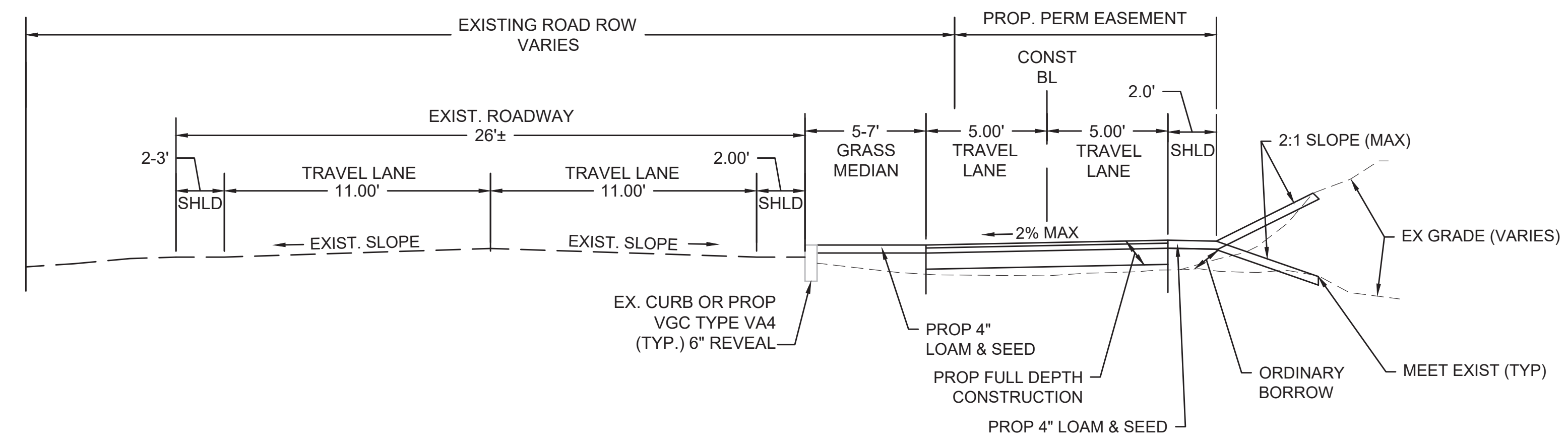
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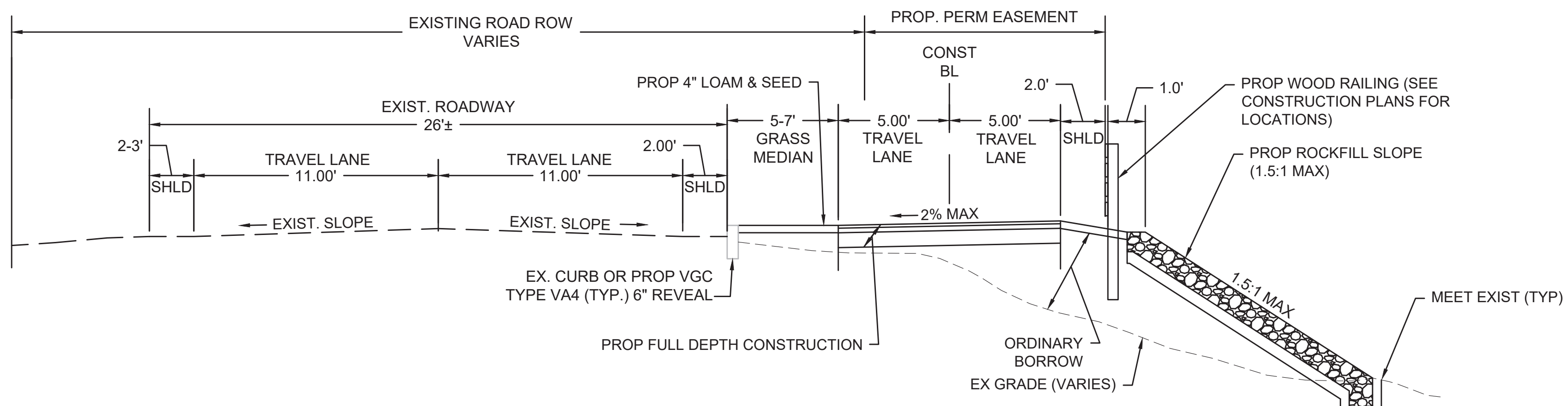
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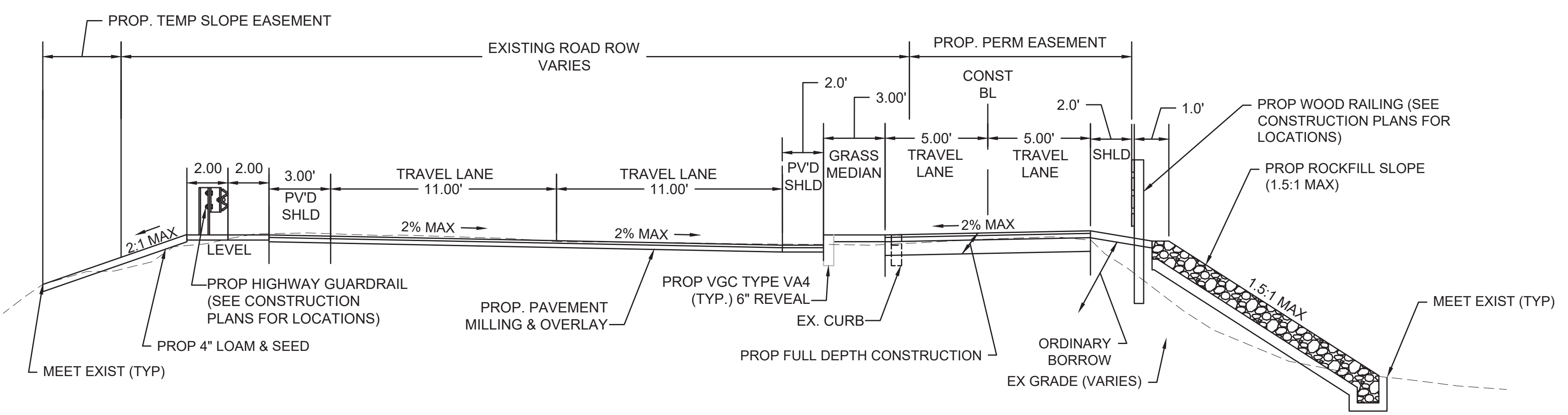
TYPICAL SECTIONS



TYPICAL SHARED USE PATH WITH ADJACENT ROADWAY  
STA 3+17± TO STA 11+43±  
STA 16+25± TO STA 30+72±  
STA 33+02± TO STA 39+26±  
STA 42+83± TO STA 49+51±  
STA 60+86± TO STA 61+89±  
STA 73+78± TO STA 78+43±  
STA 80+51± TO STA 86+09±  
NOT TO SCALE



TYPICAL SHARED USE PATH WITH ADJACENT ROADWAY AND ROCKFILL/RIPRAP SLOPE  
STA 0+00± TO STA 3+17±  
STA 11+43± TO STA 12+06±  
NOT TO SCALE



TYPICAL SHARED USE PATH WITH RECONSTRUCTION OF NARROWS ROAD  
STA 12+06± TO STA 16+25±  
NOT TO SCALE

PAVEMENT NOTES

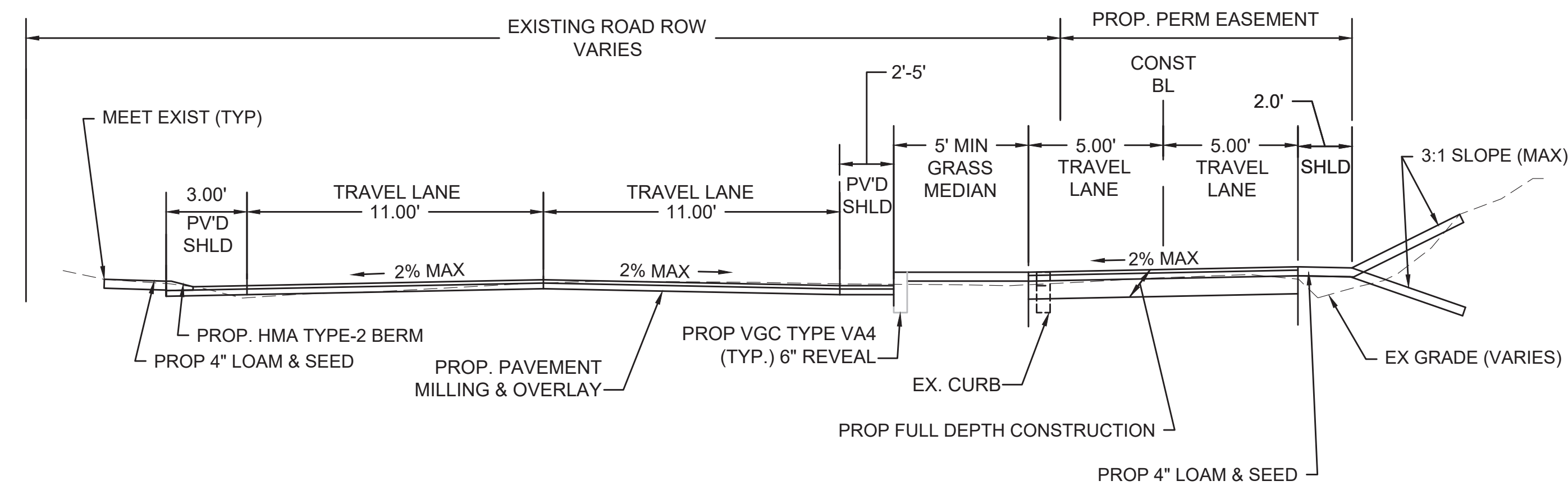
- PROPOSED PAVEMENT MILLING & OVERLAY**
- SURFACE:** 1.75" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h)
- INTERMEDIATE:** \*\*\*2.25" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h)  
\*\*3.0" PAVEMENT MICRO MILLING
- PROPOSED FULL DEPTH PAVEMENT**
- SURFACE:** 1.75" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h)
- INTERMEDIATE:** \*\*\*2.25" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h)
- BASE:** \*\*\*4" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER
- SUBBASE:** 4" DENSE GRADED CRUSHED STONE OVER  
\*8" GRAVEL BORROW, TYPE b
- PROPOSED FULL DEPTH PAVEMENT (HES) LESS THAN 4 FT WIDE**
- SURFACE:** 1.75" SUPERPAVE SURFACE COURSE - 12.5 (SSC 12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h)
- INTERMEDIATE:** \*\*\*2.25" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h)
- BASE:** \*\*\*6" HIGH EARLY STRENGTH (3000 PSI, 1 1/2", 470) CEMENT CONCRETE BASE COURSE OVER
- SUBBASE:** \*8" GRAVEL BORROW, TYPE b
- PROPOSED FULL DEPTH SHARED USE PATH PAVEMENT**
- SURFACE:** 1.50" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
- BASE:** 2.50" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER
- SUBBASE:** 8" GRAVEL BORROW, TYPE b

\*EXISTING GRAVEL DETERMINED TO BE SUITABLE SHALL REMAIN AS DIRECTED BY THE ENGINEER.  
\*\*HMA INTERMEDIATE COURSE TO BE PAVED WITHIN 5 DAYS TO PROTECT THE MILLED SURFACE FROM TRAFFIC OR AS DIRECTED BY ENGINEER.  
\*\*\*TACK COAT COVERAGE IS REQUIRED ON THE INTERMEDIATE COURSE, BASE COURSE, AND CEMENT CONCRETE BASE COURSE.

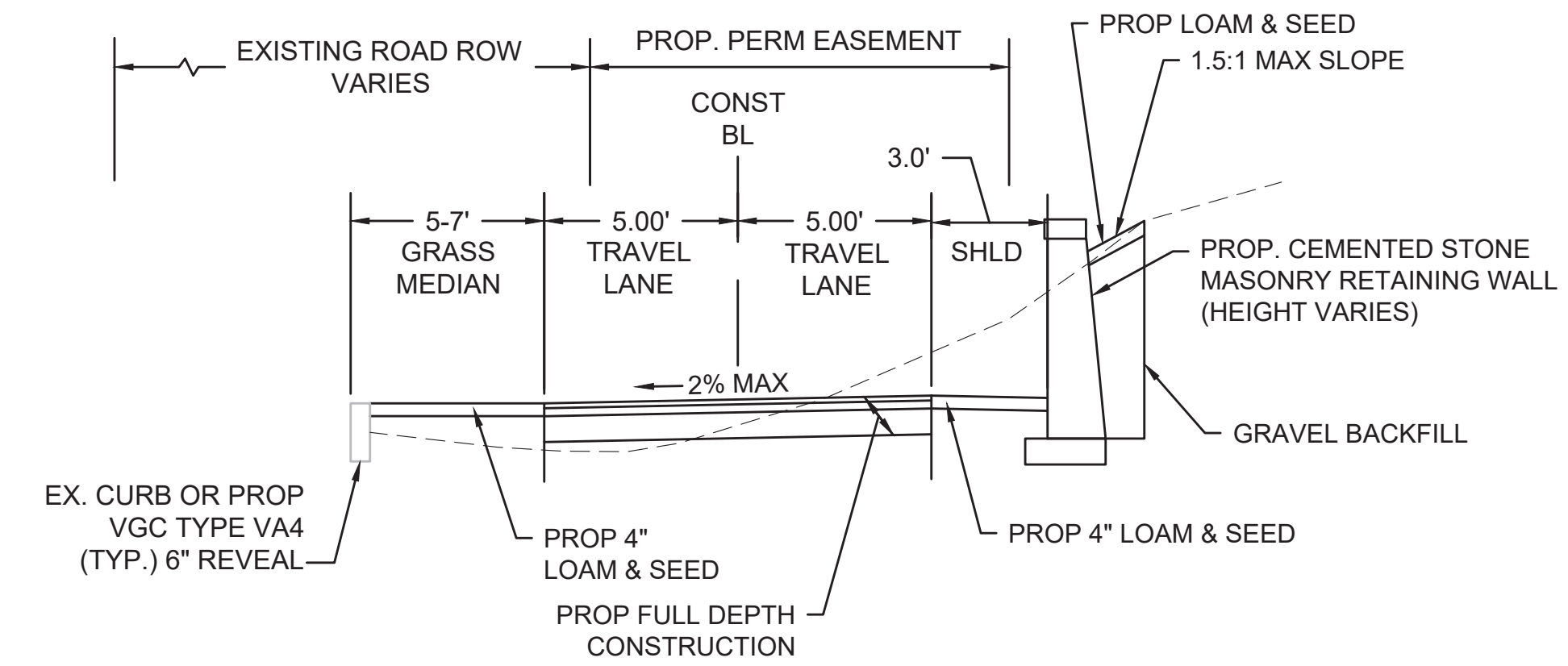
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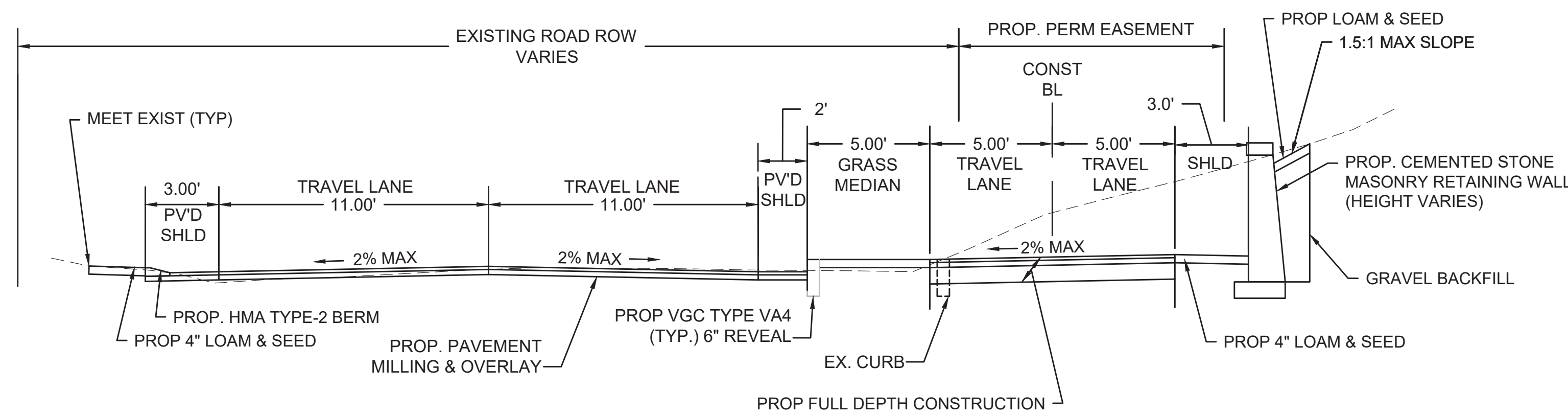
TYPICAL SECTIONS



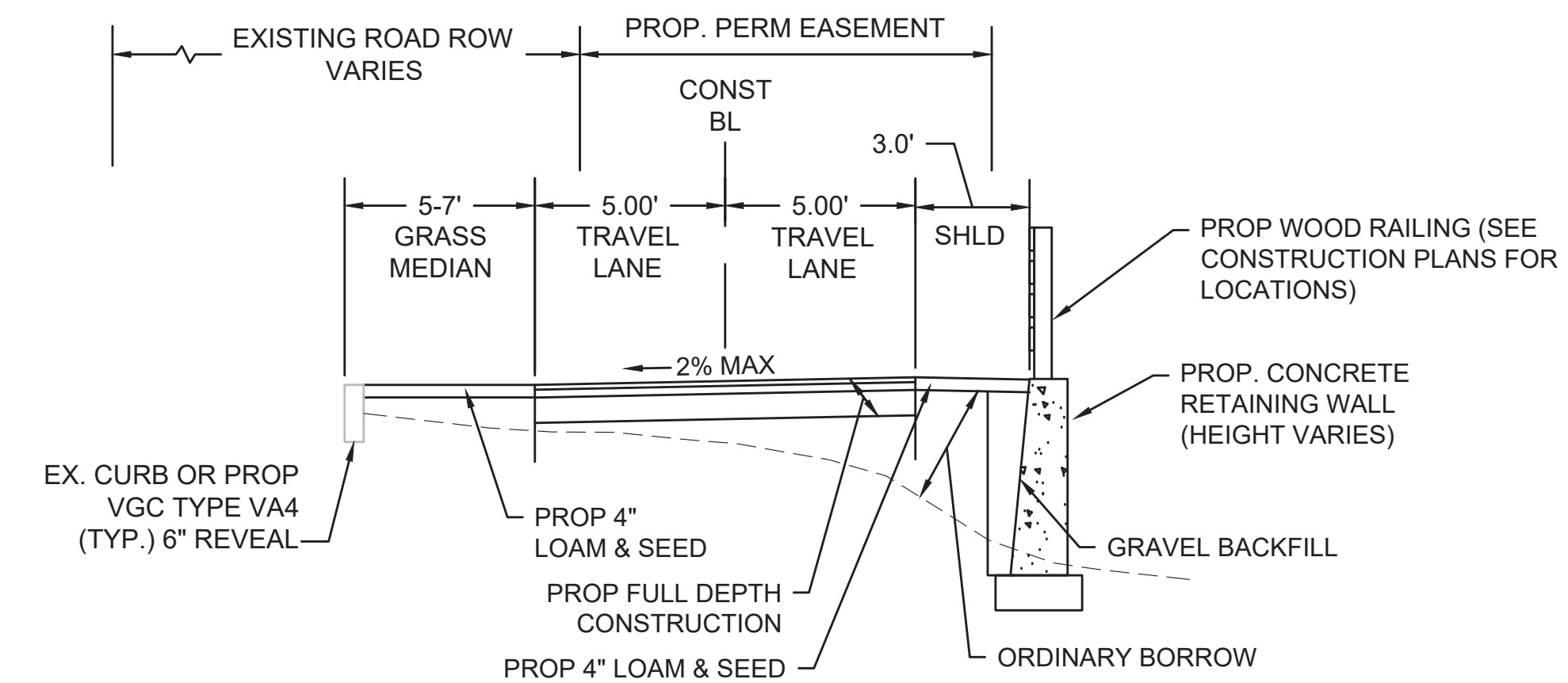
TYPICAL SHARED USE PATH WITH  
RECONSTRUCTION OF MINOT AVENUE  
STA 61+89± TO STA 65+08±  
STA 69+75± TO STA 73+78±  
NOT TO SCALE



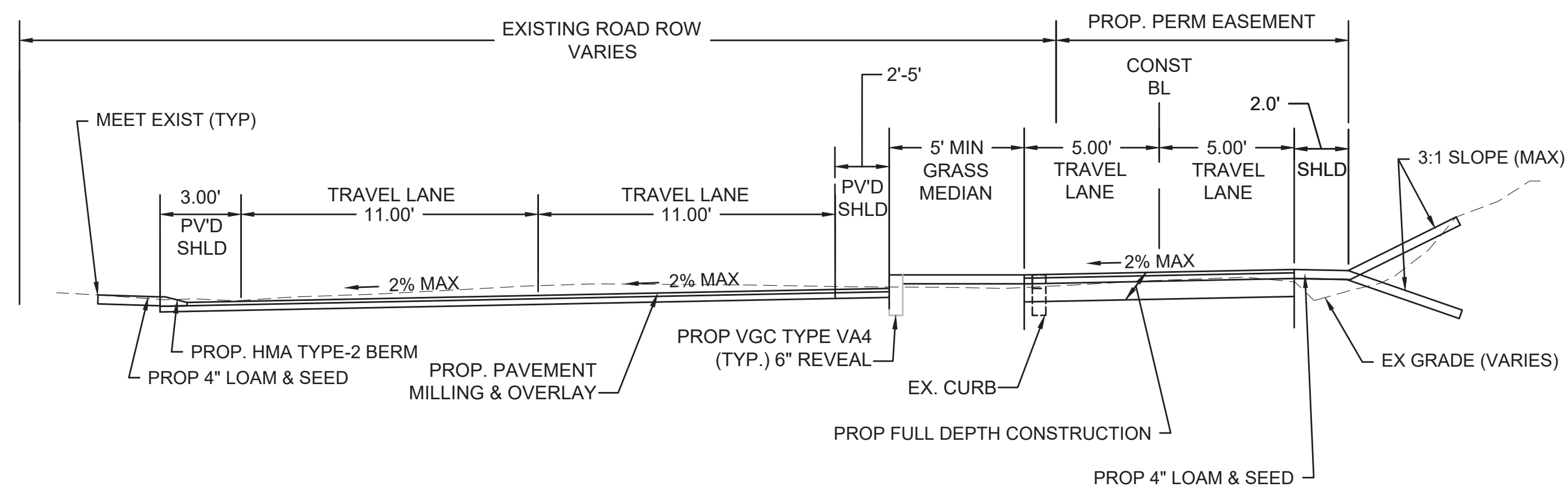
TYPICAL SHARED USE PATH WITH ADJACENT  
RETAINING WALL - CUT SECTION  
STA 30+72± TO STA 33+02±  
STA 40+38± TO STA 42+83±  
STA 54+73± TO STA 60+86±  
STA 78+43± TO STA 80+51±  
NOT TO SCALE



TYPICAL SHARED USE PATH WITH  
RECONSTRUCTION OF MINOT AVENUE  
STA 65+08± TO STA 69+75±  
NOT TO SCALE



TYPICAL SHARED USE PATH WITH ADJACENT  
RETAINING WALL - FILL SECTION  
STA 39+26± TO STA 40+38±  
STA 49+51± TO STA 54+73±  
NOT TO SCALE

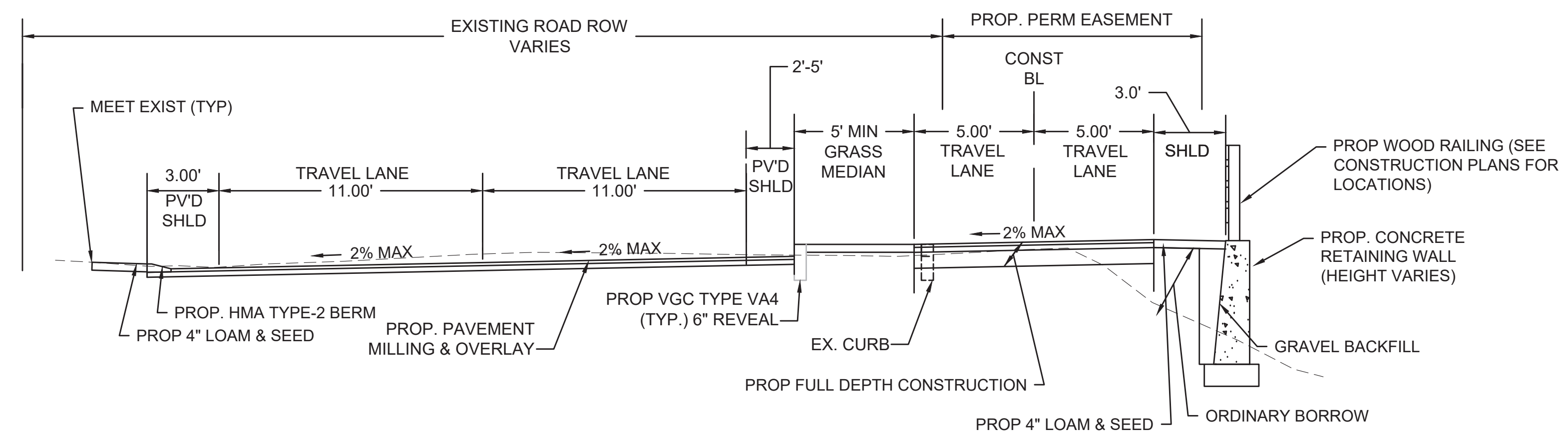


TYPICAL SHARED USE PATH WITH  
RECONSTRUCTION OF MINOT AVENUE  
STA 86+09± TO STA 89+00±  
STA 89+65± TO STA 92+44±  
NOT TO SCALE

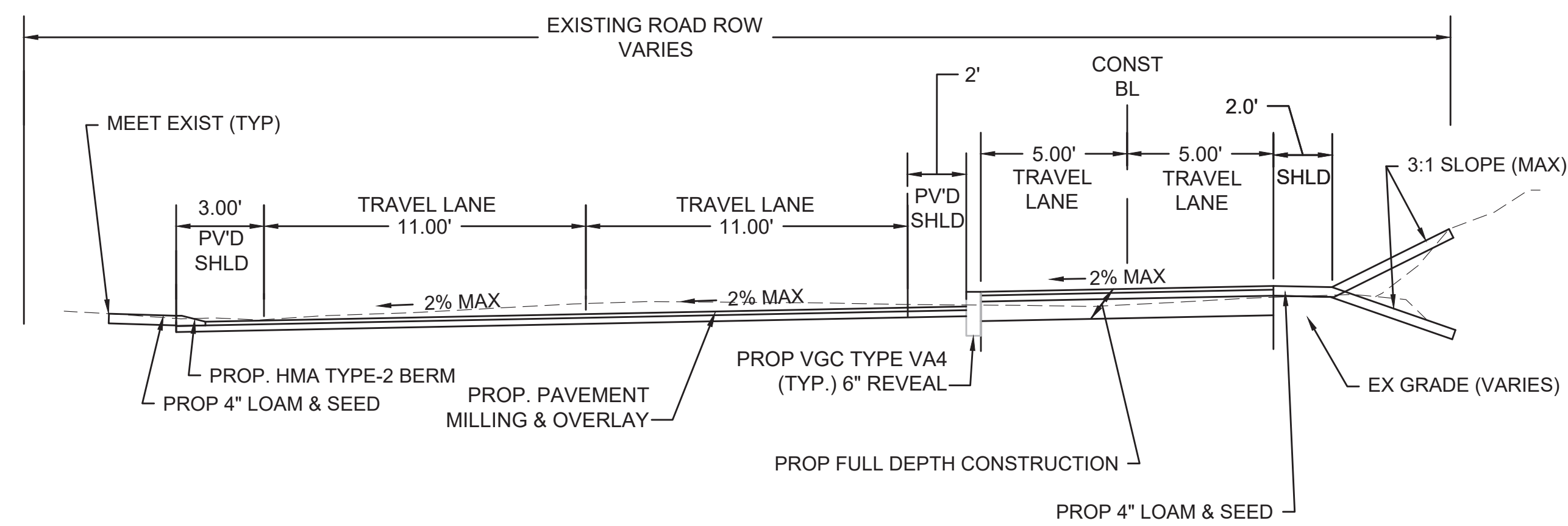
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TYPICAL SECTIONS



TYPICAL SHARED USE PATH WITH  
RECONSTRUCTION OF MINOT AVENUE  
STA 89+00± TO STA 89+65±  
NOT TO SCALE



TYPICAL SHARED USE PATH WITH  
RECONSTRUCTION OF MINOT AVENUE  
STA 92+44± TO STA 93+51±  
NOT TO SCALE

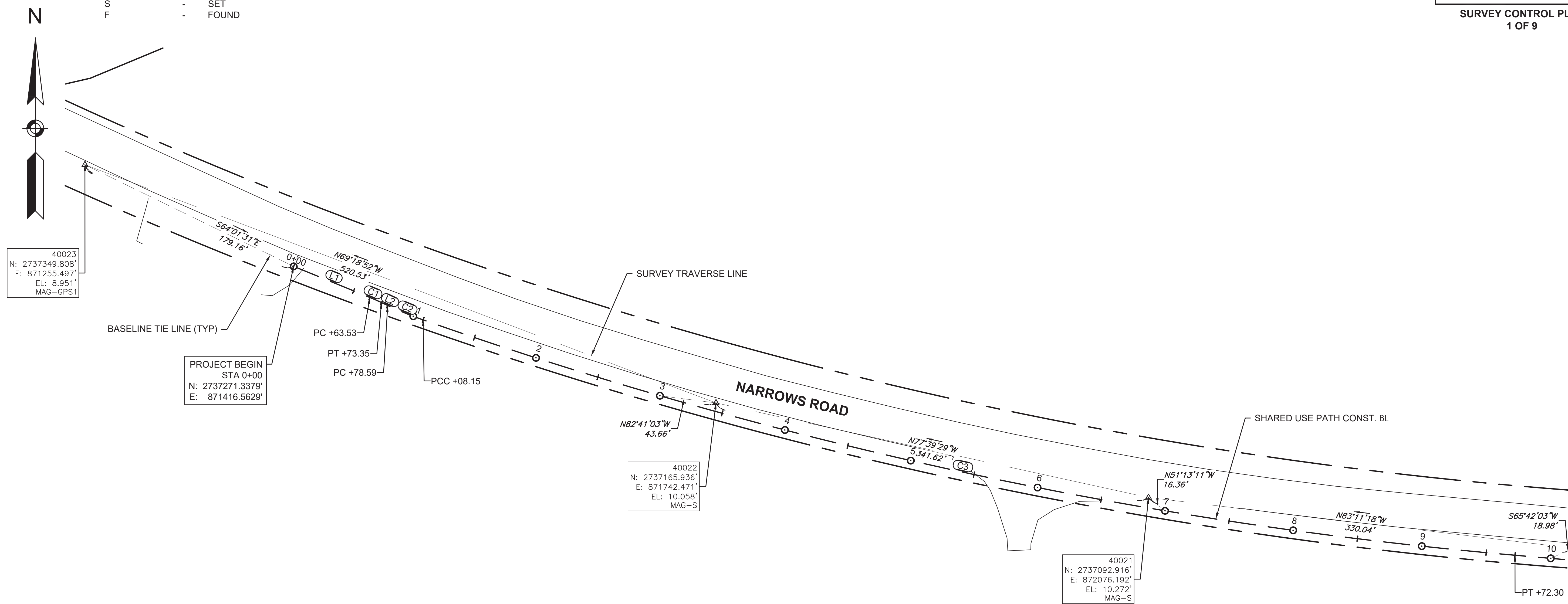
TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	07	48

PROJECT FILE NO. 607825  
SURVEY CONTROL PLAN  
1 OF 9

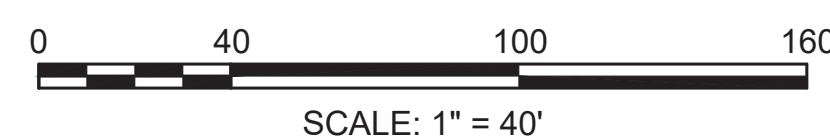
LEGEND & ABBREVIATION

- △ - SURVEY CONTROL POINT
- MAG - MAGNETIZED NAIL
- MHH - MAGNETIZED HAMMER-LESS HUB
- DH - DRILL HOLE
- S - SET
- F - FOUND



SHARED USE PATH CENTERLINE CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2737271.338	871416.563		S67°48'03"E 63.53'	0+63.53	2737247.333	871475.387
C1	0+63.53	2737247.333	871475.387	R=200.00' Δ=2°48'40" L=9.81' T=4.91'		0+73.35	2737243.405	871484.377
L2	0+73.35	2737243.405	871484.377		S64°59'23"E 5.24'	0+78.59	2737241.188	871489.128
C2	0+78.59	2737241.188	871489.128	R=300.00' Δ=5°38'46" L=29.56' T=14.79'		1+08.15	2737230.029	871516.490
C3	1+08.15	2737230.029	871516.490	R=3440.21' Δ=14°23'32" L=864.15' T=434.36'		9+72.30	2737048.362	872359.005
L3	9+72.30	2737048.362	872359.005		S85°01'41"E 173.82'	11+46.12	2737033.297	872532.173



CONTINUED ON SHEET NO 8

LEGEND & ABBREVIATION

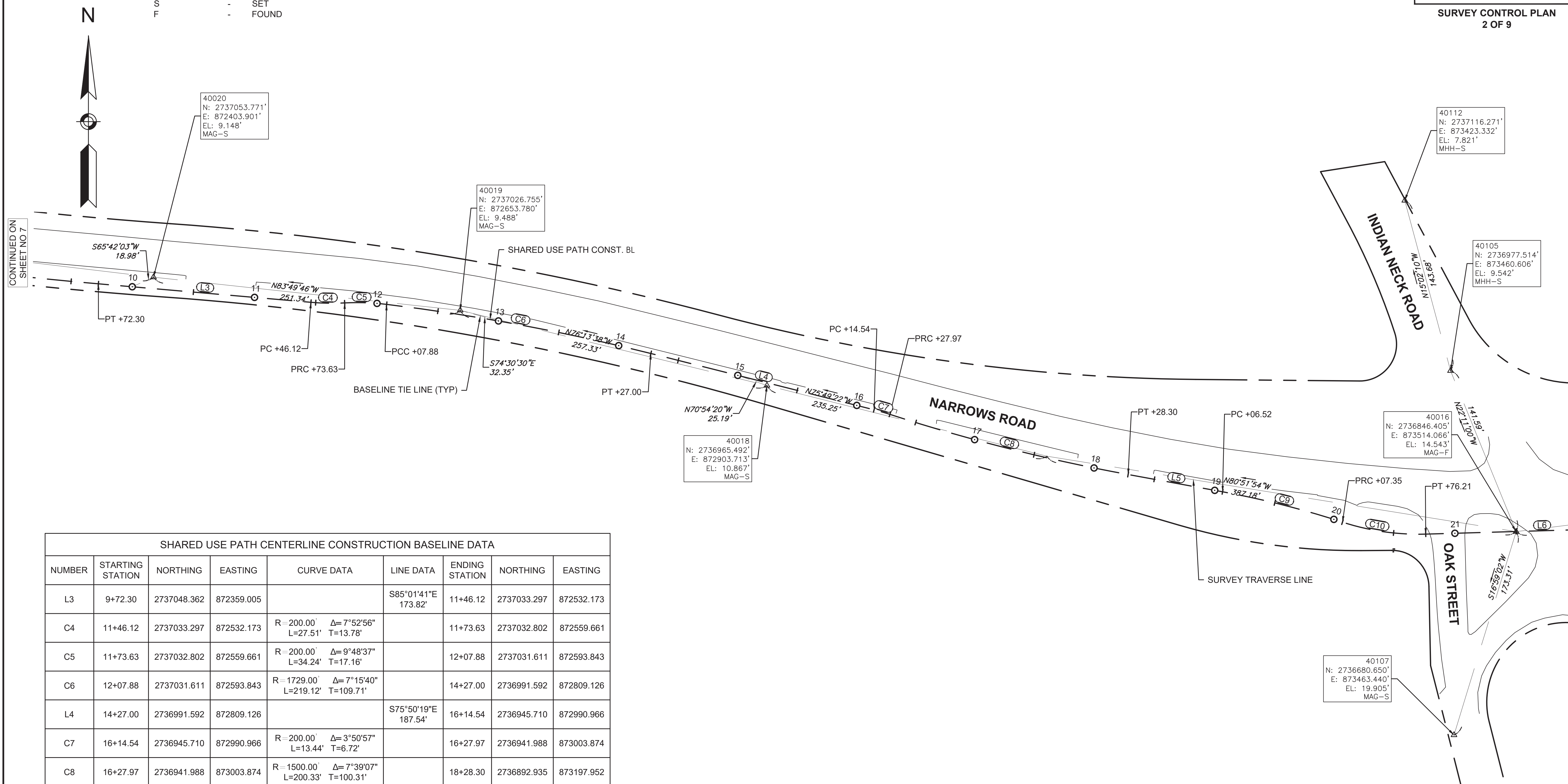
- △ - SURVEY CONTROL POINT
- MAG - MAGNETIZED NAIL
- MHH - MAGNETIZED HAMMER-LESS HUB
- DH - DRILL HOLE
- S - SET
- F - FOUND

TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	08	48

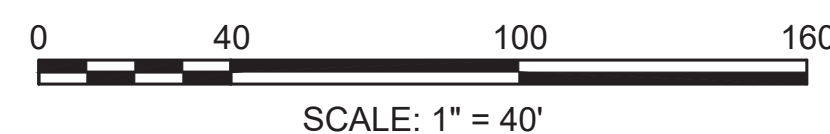
PROJECT FILE NO. 607825  
SURVEY CONTROL PLAN  
2 OF 9

607825\_HD(SURVEY CONTROL PLAN).DWG Plotted on 14-Feb-2020 6:43 PM



SHARED USE PATH CENTERLINE CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L3	9+72.30	2737048.362	872359.005		S85°01'41"E 173.82'	11+46.12	2737033.297	872532.173
C4	11+46.12	2737033.297	872532.173	R=200.00' Δ=7°52'56" L=27.51' T=13.78'		11+73.63	2737032.802	872559.661
C5	11+73.63	2737032.802	872559.661	R=200.00' Δ=9°48'37" L=34.24' T=17.16'		12+07.88	2737031.611	872593.843
C6	12+07.88	2737031.611	872593.843	R=1729.00' Δ=7°15'40" L=219.12' T=109.71'		14+27.00	2736991.592	872809.126
L4	14+27.00	2736991.592	872809.126		S75°50'19"E 187.54'	16+14.54	2736945.710	872990.966
C7	16+14.54	2736945.710	872990.966	R=200.00' Δ=3°50'57" L=13.44' T=6.72'		16+27.97	2736941.988	873003.874
C8	16+27.97	2736941.988	873003.874	R=1500.00' Δ=7°39'07" L=200.33' T=100.31'		18+28.30	2736892.935	873197.952
L5	18+28.30	2736892.935	873197.952		S79°38'30"E 78.21'	19+06.52	2736878.871	873274.891
C9	19+06.52	2736878.871	873274.891	R=750.00' Δ=7°42'13" L=100.84' T=50.50'		20+07.35	2736854.136	873372.570
C10	20+07.35	2736854.136	873372.570	R=200.00' Δ=19°43'30" L=68.85' T=34.77'		20+76.21	2736844.365	873440.384
L6	20+76.21	2736844.365	873440.384		N88°20'13"E 156.83'	22+33.04	2736848.917	873597.146



CONTINUED ON  
SHEET NO 7

CONTINUED ON  
SHEET NO 9



TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

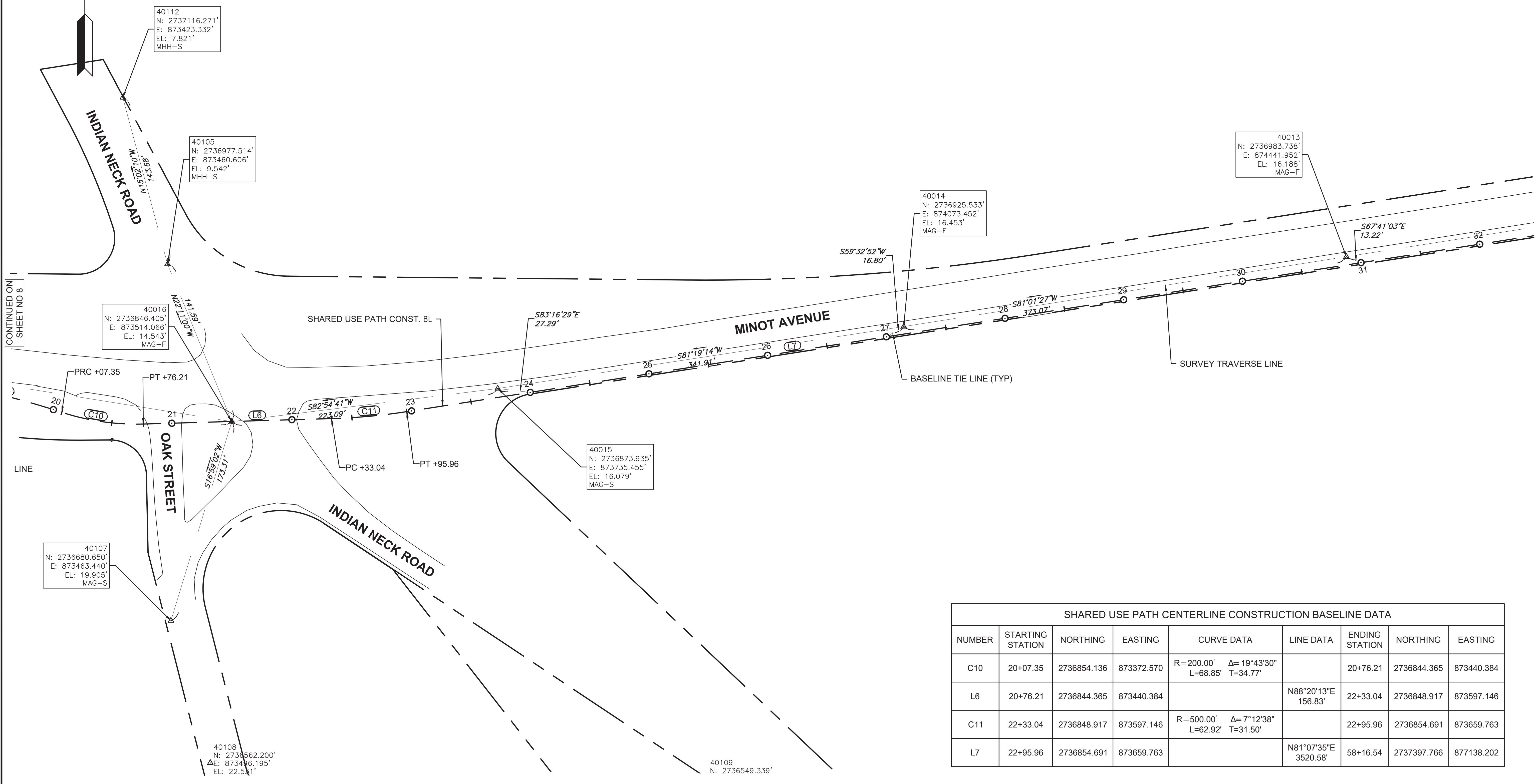
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	09	48

PROJECT FILE NO. 607825  
SURVEY CONTROL PLAN  
3 OF 9

LEGEND & ABBREVIATION

- △ - SURVEY CONTROL POINT
- MAG - MAGNETIZED NAIL
- MHH - MAGNETIZED HAMMER-LESS HUB
- DH - DRILL HOLE
- S - SET
- F - FOUND

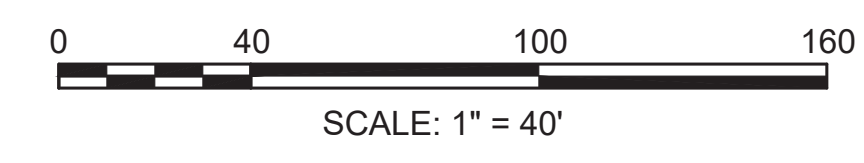
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CONTINUED ON SHEET NO 8

CONTINUED ON SHEET NO 10

SHARED USE PATH CENTERLINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C10	20+07.35	2736854.136	873372.570	R=200.00' Δ=19°43'30" L=68.85' T=34.77'		20+76.21	2736844.365	873440.384
L6	20+76.21	2736844.365	873440.384		N88°20'13"E 156.83'	22+33.04	2736848.917	873597.146
C11	22+33.04	2736848.917	873597.146	R=500.00' Δ=7°12'38" L=62.92' T=31.50'		22+95.96	2736854.691	873659.763
L7	22+95.96	2736854.691	873659.763		N81°07'35"E 3520.58'	58+16.54	2737397.766	877138.202



LEGEND & ABBREVIATION

- △ - SURVEY CONTROL POINT
- MAG - MAGNETIZED NAIL
- MHH - MAGNETIZED HAMMER-LESS HUB
- DH - DRILL HOLE
- S - SET
- F - FOUND

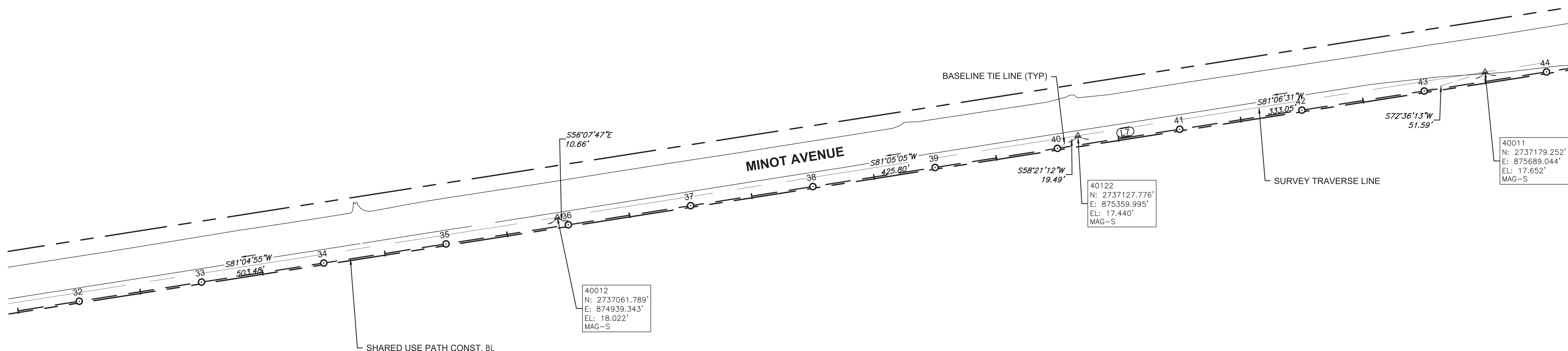


TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	10	48

SURVEY CONTROL PLAN  
4 OF 9

PROJECT FILE NO. 607825



CONTINUED ON SHEET NO 9

CONTINUED ON SHEET NO 11

SHARED USE PATH CENTERLINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L7	22+95.96	2736854.691	873659.763		N81°07'35"E 3520.58'	58+16.54	2737397.766	877138.202



LEGEND & ABBREVIATION

- △ - SURVEY CONTROL POINT
- MAG - MAGNETIZED NAIL
- MHH - MAGNETIZED HAMMER-LESS HUB
- DH - DRILL HOLE
- S - SET
- F - FOUND

N



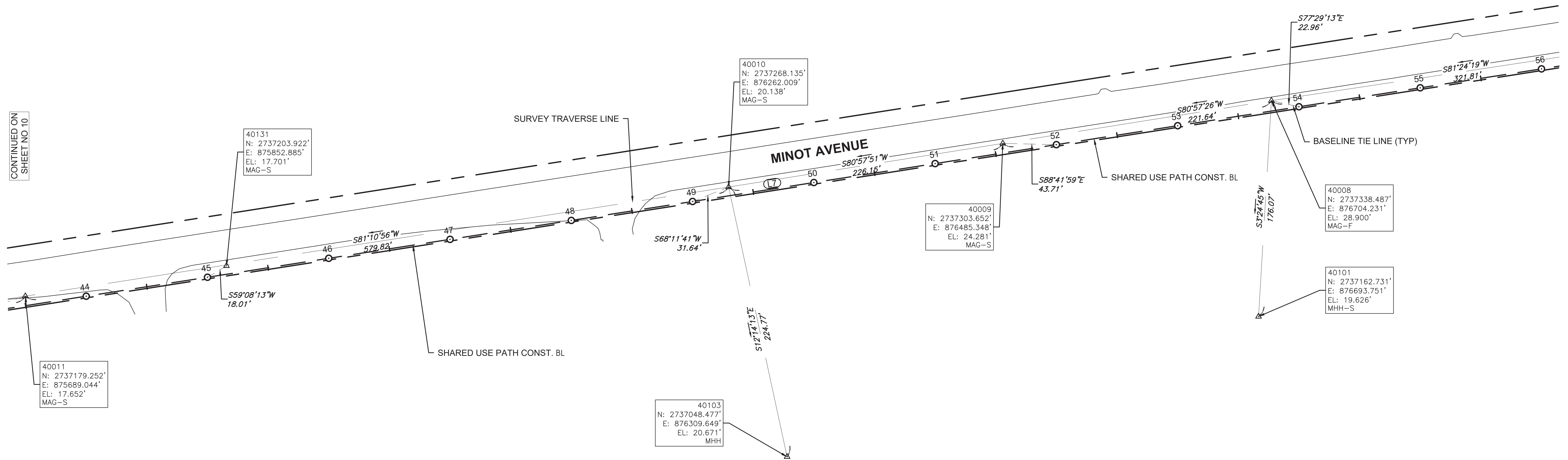
TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	11	48

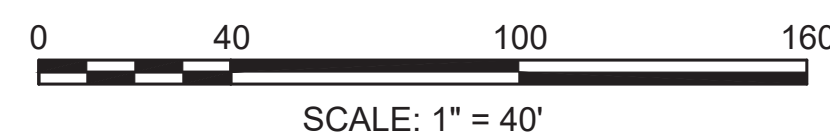
PROJECT FILE NO. 607825  
SURVEY CONTROL PLAN  
5 OF 9

CONTINUED ON SHEET NO 10

CONTINUED ON SHEET NO 12



SHARED USE PATH CENTERLINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L7	22+95.96	2736854.691	873659.763		N81°07'35"E 3520.58'	58+16.54	2737397.766	877138.202



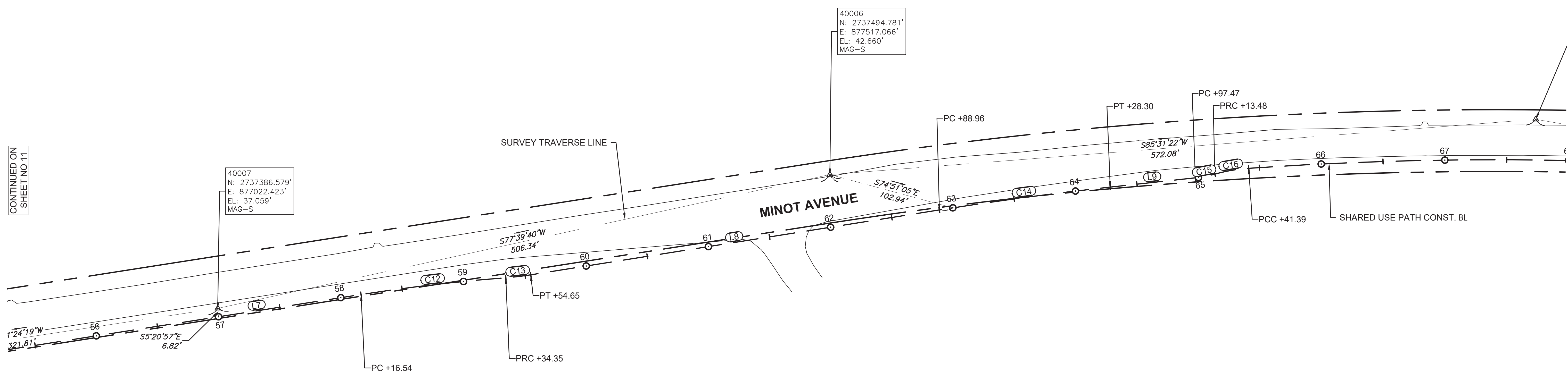
TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	12	48

PROJECT FILE NO. 607825  
SURVEY CONTROL PLAN  
6 OF 9

LEGEND & ABBREVIATION

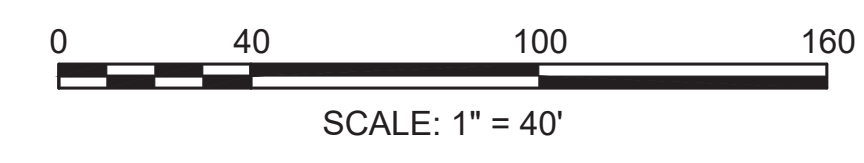
- △ - SURVEY CONTROL POINT
- MAG - MAGNETIZED NAIL
- MHH - MAGNETIZED HAMMER-LESS HUB
- DH - DRILL HOLE
- S - SET
- F - FOUND



CONTINUED ON  
SHEET NO 11

CONTINUED ON  
SHEET NO 13

SHARED USE PATH CENTERLINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L7	22+95.96	2736854.691	873659.763		N81°07'35"E 3520.58'	58+16.54	2737397.766	877138.202
C12	58+16.54	2737397.766	877138.202	R = 1500.00' Δ= 4°30'00" L=117.81' T=58.93'		59+34.35	2737411.352	877255.193
C13	59+34.35	2737411.352	877255.193	R = 250.00' Δ= 4°39'09" L=20.30' T=10.16'		59+54.65	2737413.720	877275.349
L8	59+54.65	2737413.720	877275.349		N80°58'25"E 334.31'	62+88.96	2737466.169	877605.519
C14	62+88.96	2737466.169	877605.519	R = 2850.00' Δ= 2°48'05" L=139.34' T=69.68'		64+28.30	2737484.657	877743.613
L9	64+28.30	2737484.657	877743.613		N83°46'30"E 69.17'	64+97.47	2737492.158	877812.377
C15	64+97.47	2737492.158	877812.377	R = 100.00' Δ= 9°10'38" L=16.02' T=8.03'		65+13.48	2737495.160	877828.093
C16	65+13.48	2737495.160	877828.093	R = 140.00' Δ= 11°25'13" L=27.90' T=14.00'		65+41.39	2737499.850	877855.554



TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	13	48

PROJECT FILE NO. 607825  
SURVEY CONTROL PLAN  
7 OF 9

LEGEND & ABBREVIATION

- △ - SURVEY CONTROL POINT
- MAG - MAGNETIZED NAIL
- MHH - MAGNETIZED HAMMER-LESS HUB
- DH - DRILL HOLE
- S - SET
- F - FOUND

N

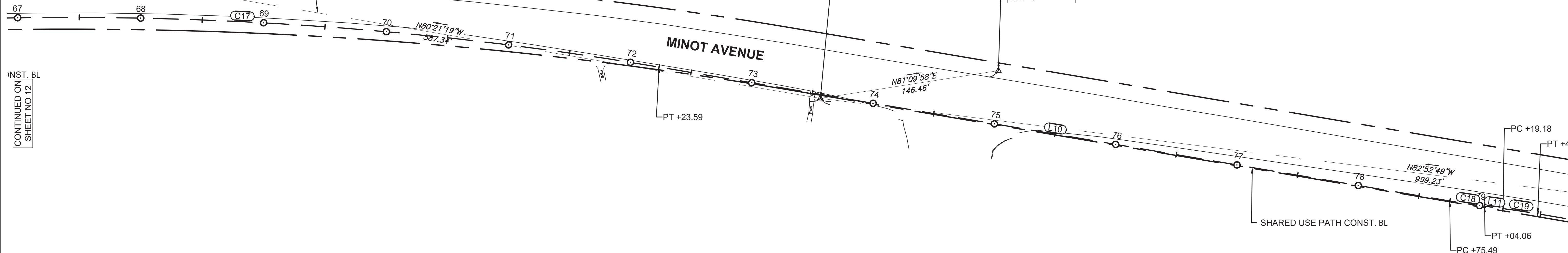


40005  
N: 2737539.439'  
E: 878087.405'  
EL: 39.508'  
SPK-S

SURVEY TRAVERSE LINE

40004  
N: 2737441.039'  
E: 878666.439'  
EL: 34.079'  
MAG-F

40117  
N: 2737463.532'  
E: 878811.165'  
EL: 31.967'  
MHH-S



INST. BL  
CONTINUED ON  
SHEET NO 12

CONTINUED ON  
SHEET NO 14

SHARED USE PATH CENTERLINE CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C17	65+41.39	2737499.850	877855.554	R=2877.00' Δ=13°35'10" L=682.20' T=342.71'		72+23.59	2737466.472	878535.334
L10	72+23.59	2737466.472	878535.334		S80°23'45"E 651.90'	78+75.49	2737357.710	879178.098
C18	78+75.49	2737357.710	879178.098	R=750.00' Δ=2°10'57" L=28.57' T=14.29'		79+04.06	2737353.481	879206.351
L11	79+04.06	2737353.481	879206.351		S82°34'43"E 15.12'	79+19.18	2737351.528	879221.346
C19	79+19.18	2737351.528	879221.346	R=750.00' Δ=2°10'57" L=28.57' T=14.29'		79+47.75	2737347.299	879249.600



TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

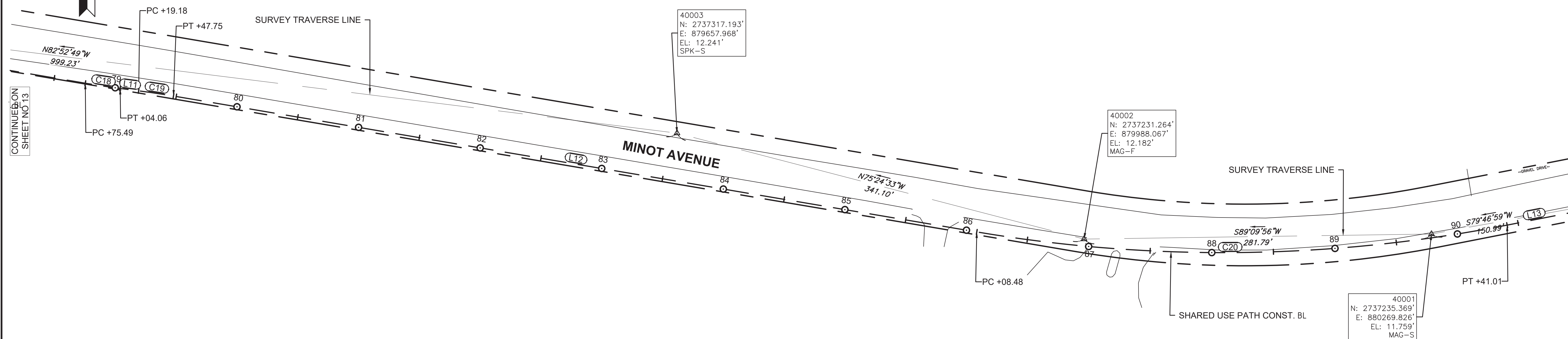
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	14	48

PROJECT FILE NO. 607825  
SURVEY CONTROL PLAN  
8 OF 9

LEGEND & ABBREVIATION

- △ - SURVEY CONTROL POINT
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- MHH - MAGNETIZED HAMMER-LESS HUB
- DH - DRILL HOLE
- S - SET
- F - FOUND

N

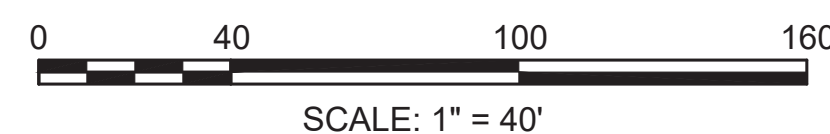


CONTINUED ON  
SHEET NO. 13

CONTINUED ON  
SHEET NO. 15

SHARED USE PATH CENTERLINE CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C18	78+75.49	2737357.710	879178.098	R=750.00' Δ=2°10'57" L=28.57' T=14.29'		79+04.06	2737353.481	879206.351
L11	79+04.06	2737353.481	879206.351		S82°34'43"E 15.12'	79+19.18	2737351.528	879221.346
C19	79+19.18	2737351.528	879221.346	R=750.00' Δ=2°10'57" L=28.57' T=14.29'		79+47.75	2737347.299	879249.600
L12	79+47.75	2737347.299	879249.600		S80°23'45"E 660.73'	86+08.48	2737237.063	879901.071
C20	86+08.48	2737237.063	879901.071	R=1198.00' Δ=20°41'10" L=432.53' T=218.64'		90+41.01	2737242.612	880331.216
L13	90+41.01	2737242.612	880331.216		N78°55'05"E 110.37'	91+51.38	2737263.827	880439.532



TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	15	48

PROJECT FILE NO. 607825  
SURVEY CONTROL PLAN  
9 OF 9

LEGEND & ABBREVIATION

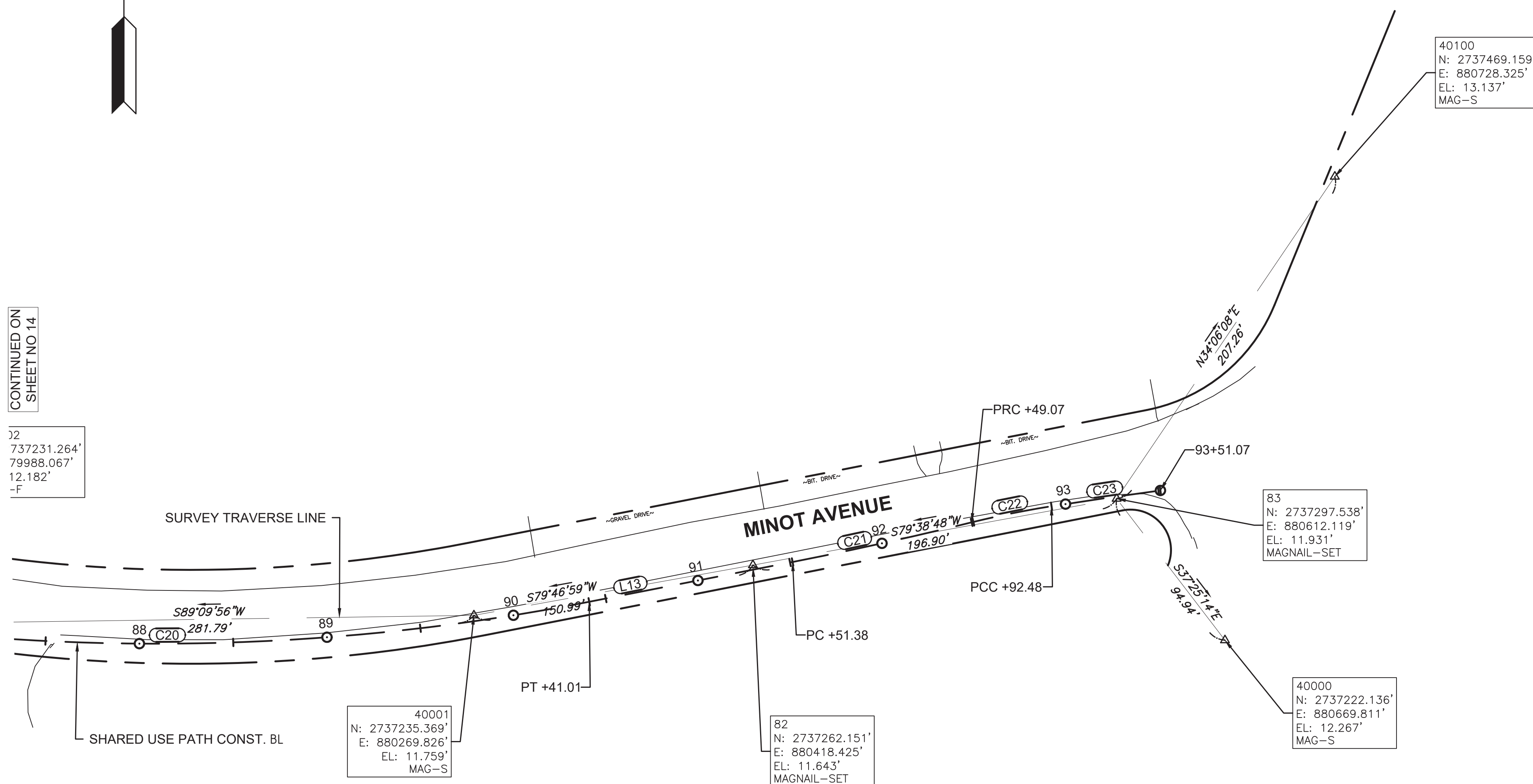
- △ - SURVEY CONTROL POINT
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- MHH - MAGNETIZED HAMMER-LESS HUB
- DH - DRILL HOLE
- S - SET
- F - FOUND

N

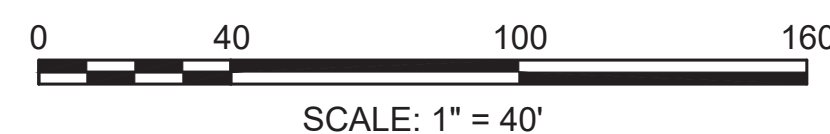


CONTINUED ON  
SHEET NO. 14

32  
737231.264'  
79988.067'  
12.182'  
-F



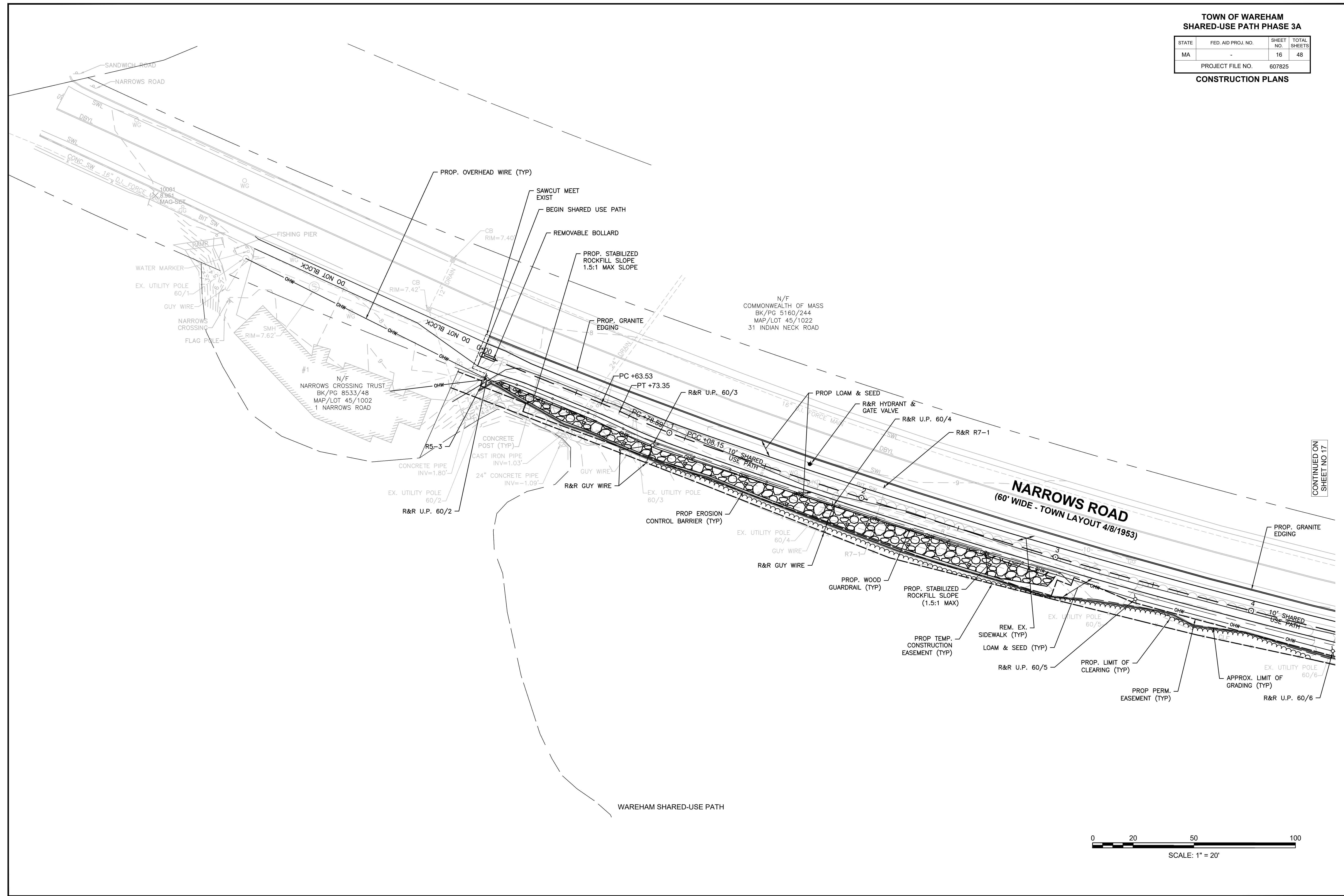
SHARED USE PATH CENTERLINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C20	86+08.48	2737237.063	879901.071	R=1198.00' Δ=20°41'10" L=432.53' T=218.64'		90+41.01	2737242.612	880331.216
L13	90+41.01	2737242.612	880331.216		N78°55'05"E 110.37'	91+51.38	2737263.827	880439.532
C21	91+51.38	2737263.827	880439.532	R=2000.00' Δ=2°47'55" L=97.69' T=48.86'		92+49.07	2737284.939	880534.906
C22	92+49.07	2737284.939	880534.906	R=500.00' Δ=4°58'27" L=43.41' T=21.72'		92+92.48	2737293.511	880577.444
C23	92+92.48	2737293.511	880577.444	R=2606.50' Δ=1°17'16" L=58.59' T=29.30'		93+51.07	2737301.931	880635.424



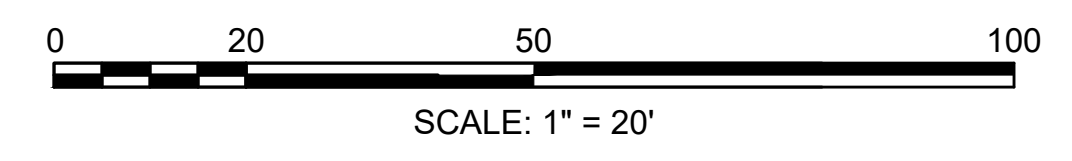
TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	16	48
PROJECT FILE NO.		607825	

CONSTRUCTION PLANS



CONTINUED ON  
SHEET NO 17

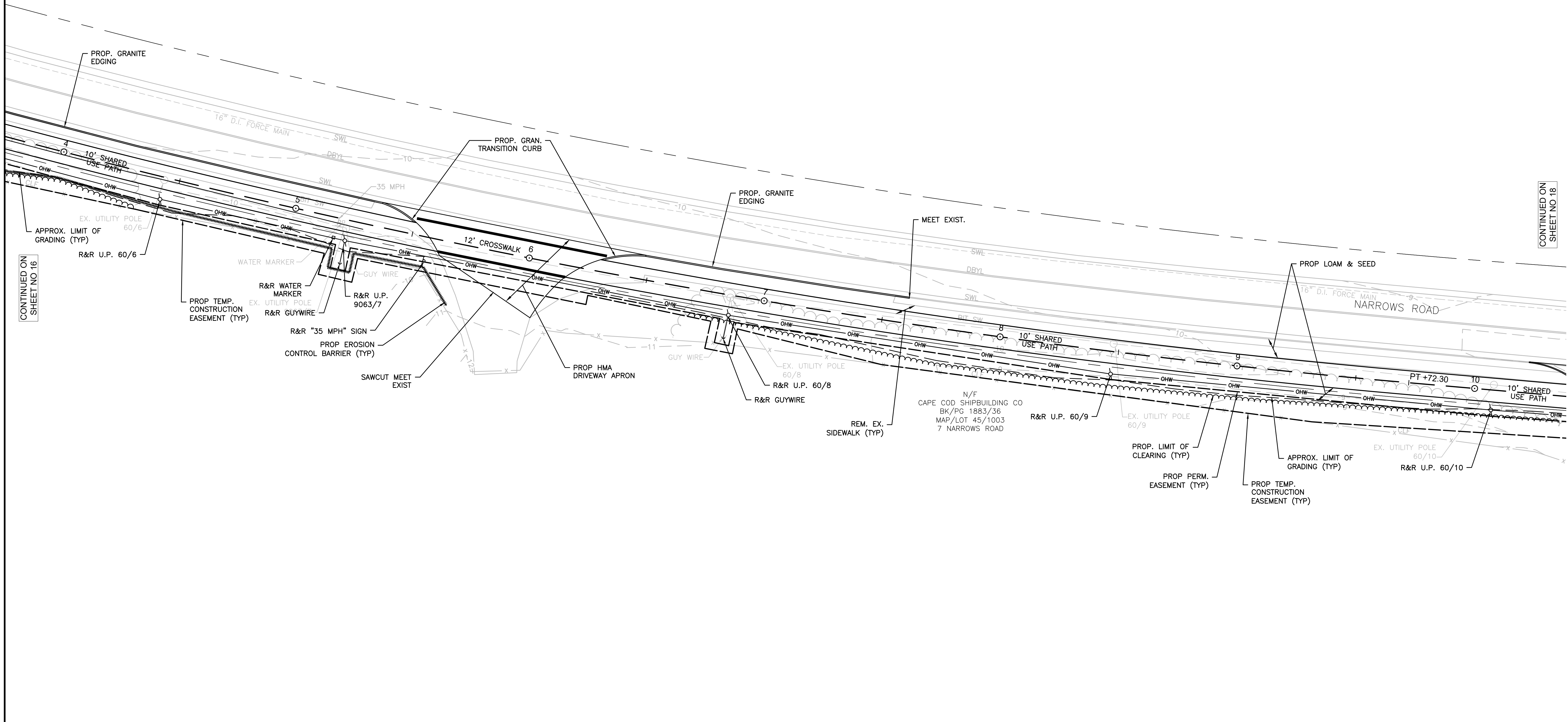




TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	17	48
PROJECT FILE NO.		607825	

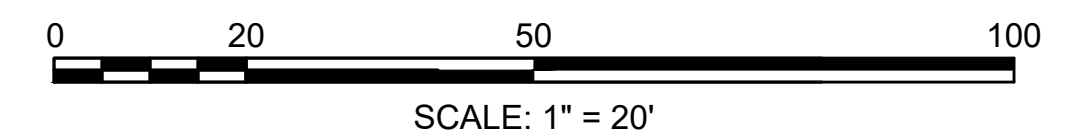
CONSTRUCTION PLANS



CONTINUED ON SHEET NO 16

CONTINUED ON SHEET NO 18

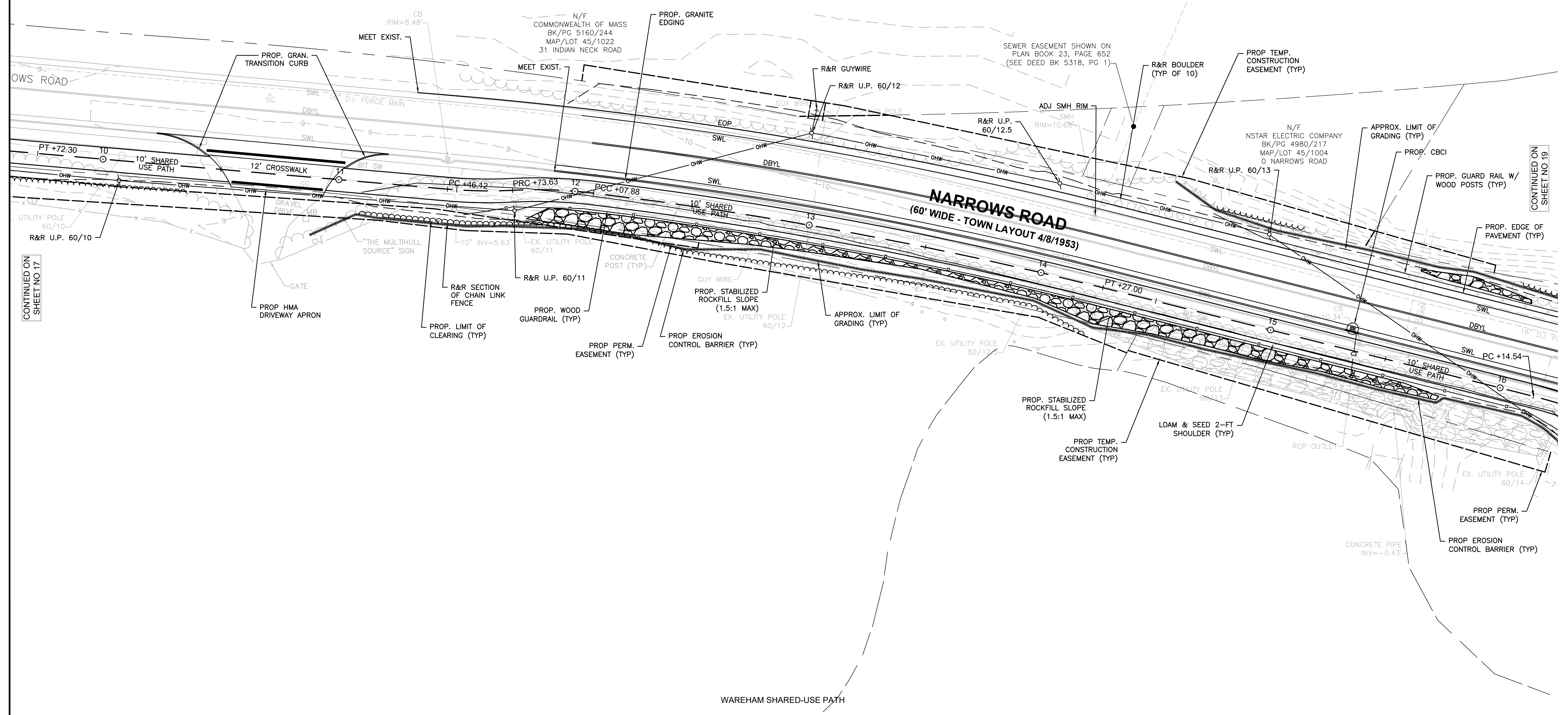
WAREHAM SHARED-USE PATH



TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

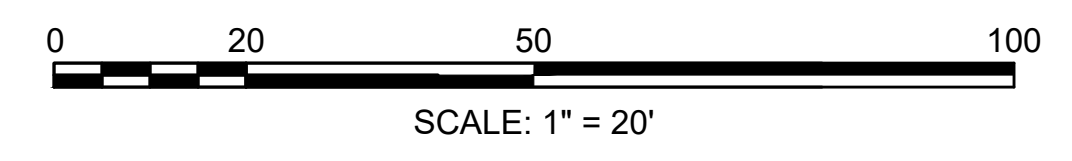
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	18	48
PROJECT FILE NO.		607825	

CONSTRUCTION PLANS



CONTINUED ON SHEET NO 17

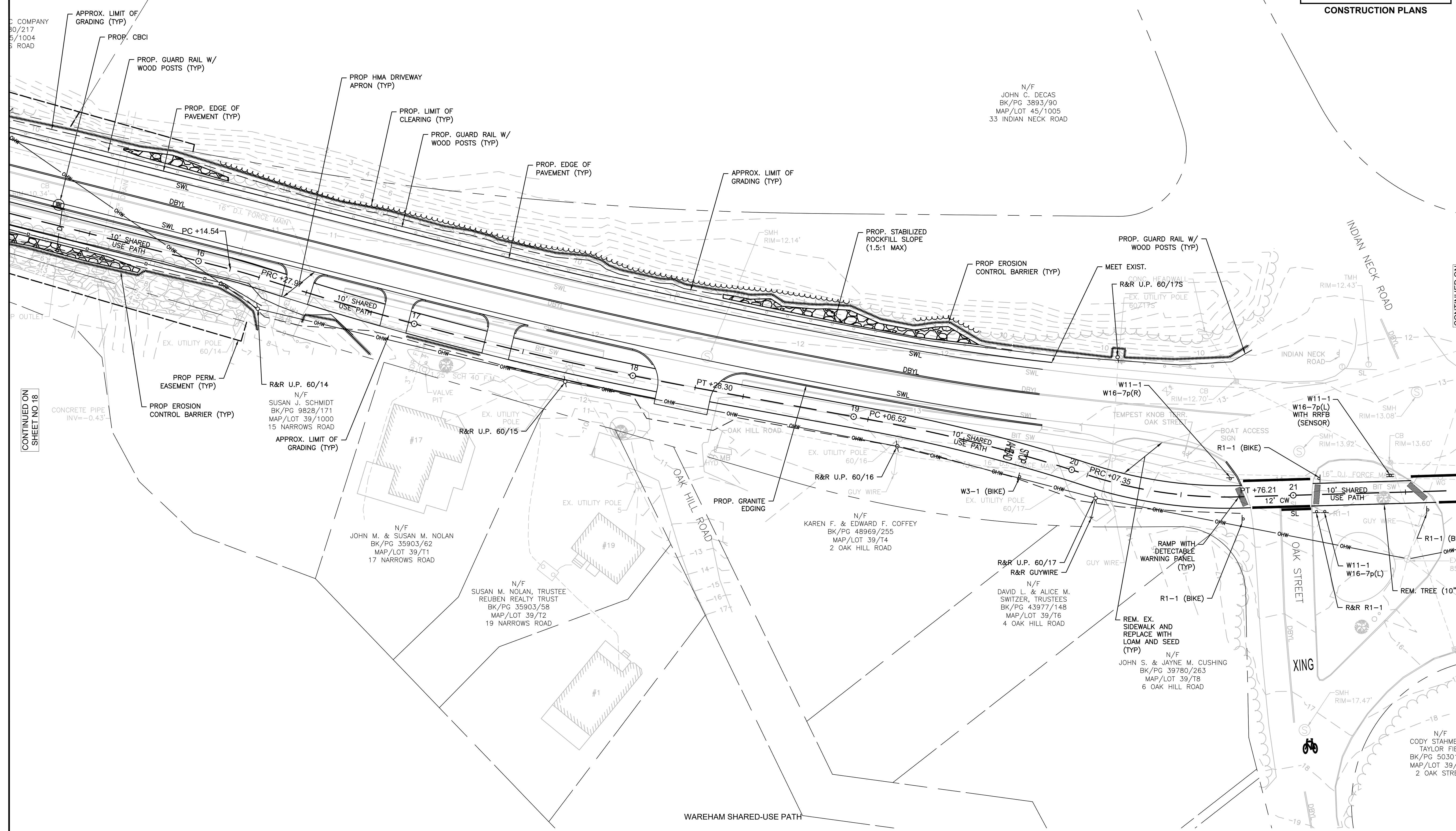
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TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

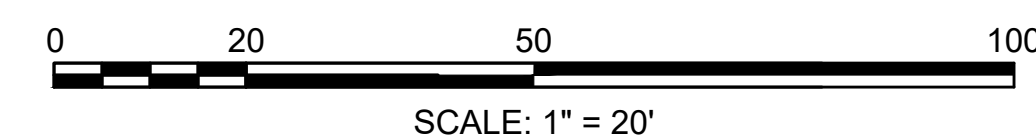
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	19	48
PROJECT FILE NO.		607825	

CONSTRUCTION PLANS



CONTINUED ON SHEET NO 18

CONTINUED ON SHEET NO 20



**TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	20	48
PROJECT FILE NO. 607825		WF-3A	

**CONSTRUCTION PLANS**

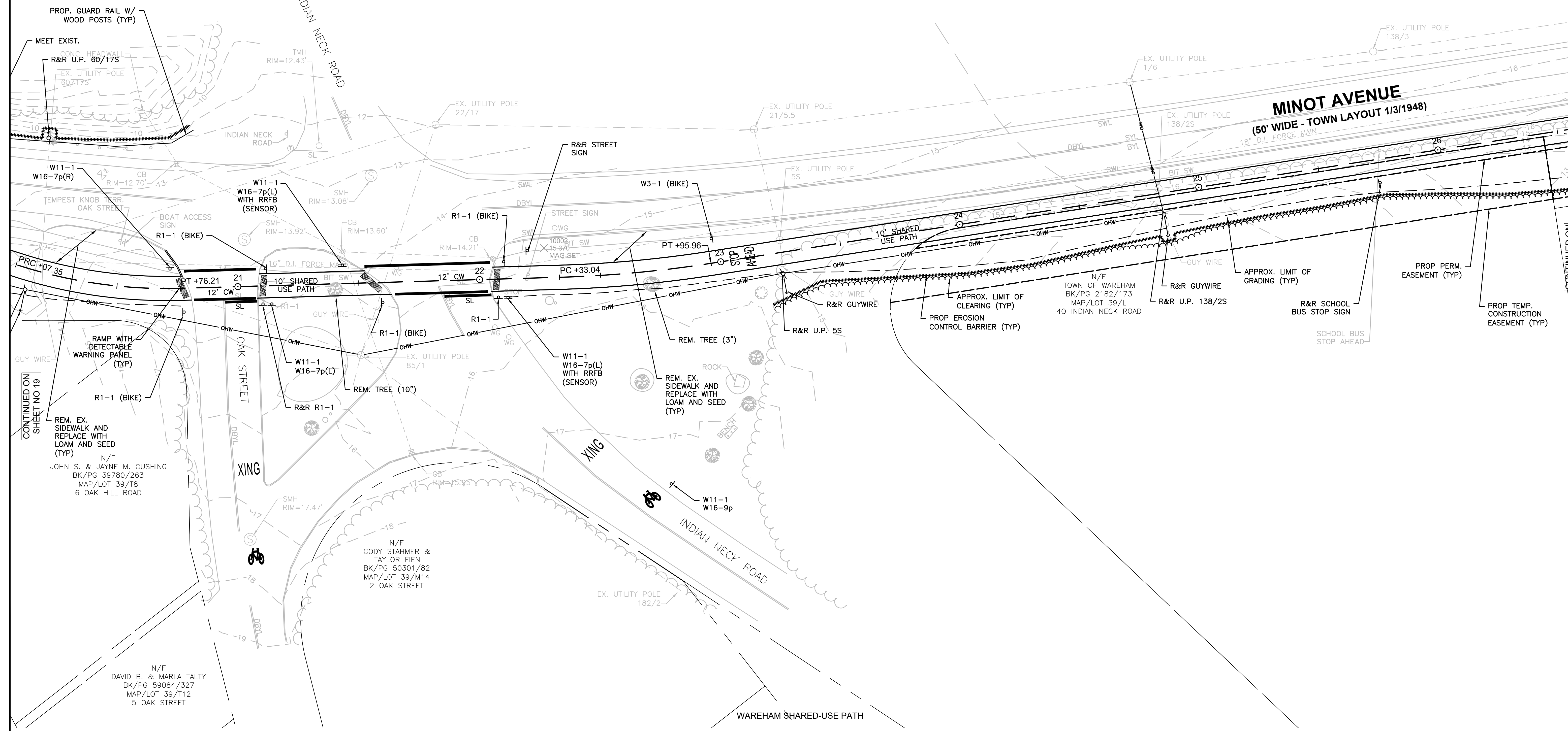
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MAP/LOT 45/1019  
6 MINOT AVE

N/F  
VICTORIA SWANK  
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18 MINOT AVE

WF-1A  
WF-2A  
WF-3A  
WF-4A  
WF-5A

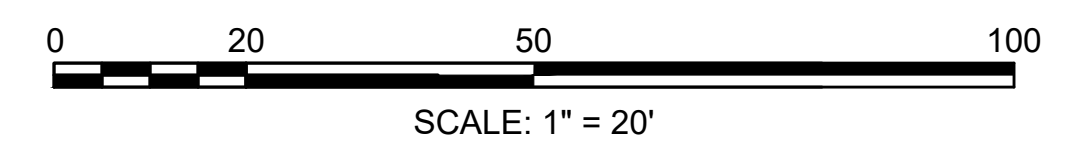
EDGE OF WETLANDS

**MINOT AVENUE**  
(50' WIDE - TOWN LAYOUT 1/3/1948)



CONTINUED ON  
SHEET NO 19

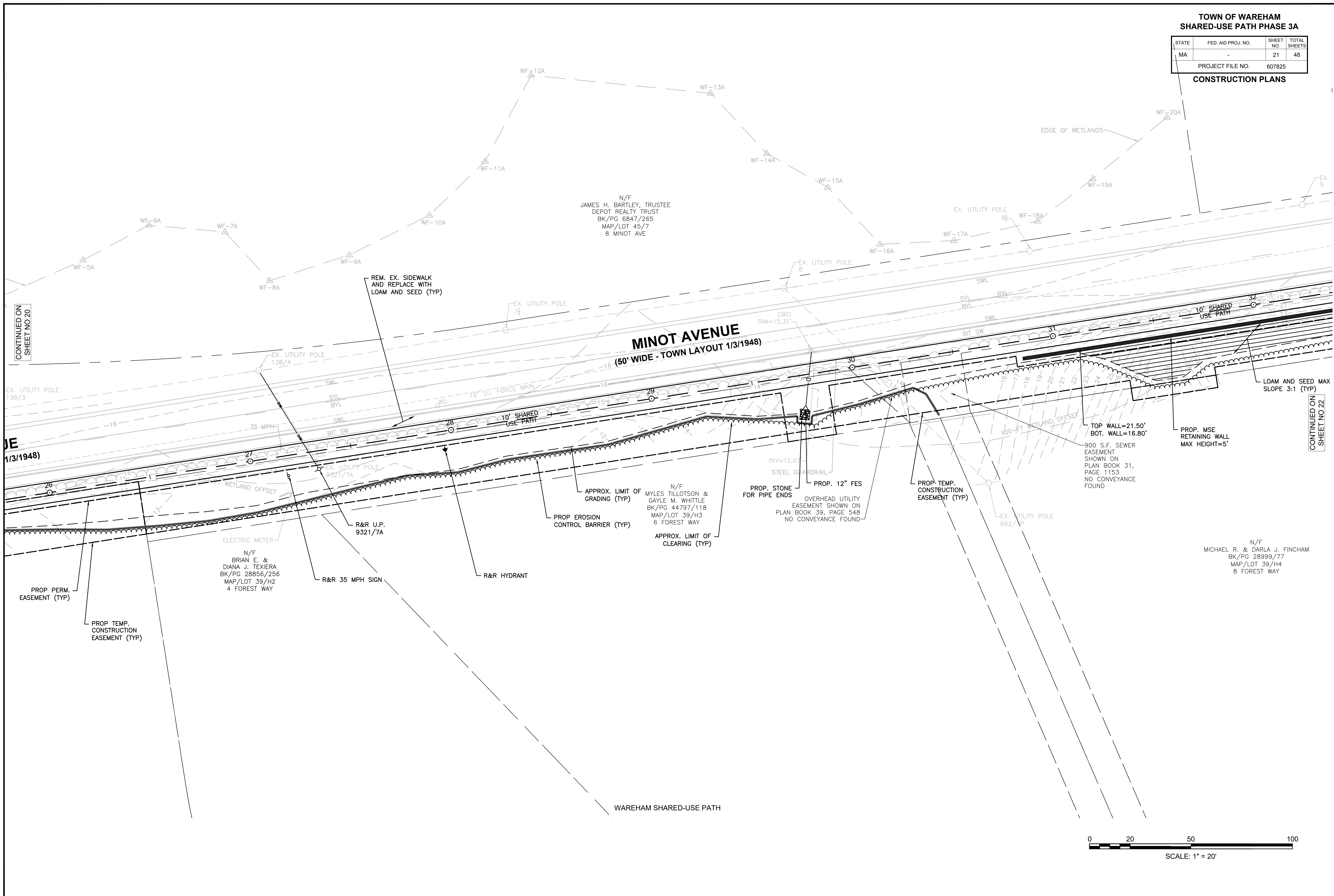
CONTINUED ON  
SHEET NO 21



**TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	21	48
PROJECT FILE NO.		607825	

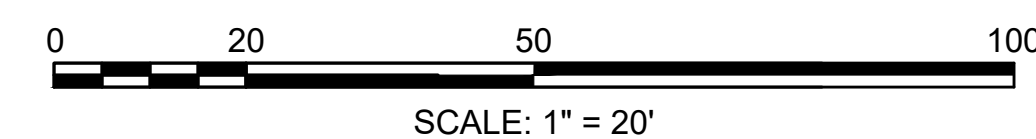
**CONSTRUCTION PLANS**



CONTINUED ON  
SHEET NO 20

DE  
(1/3/1948)

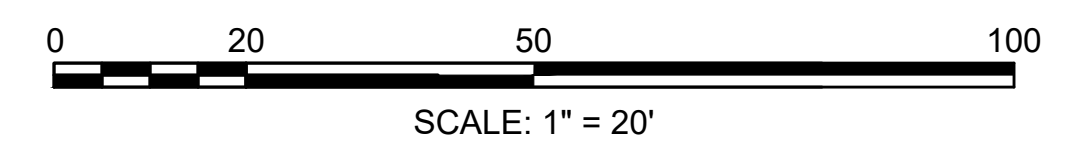
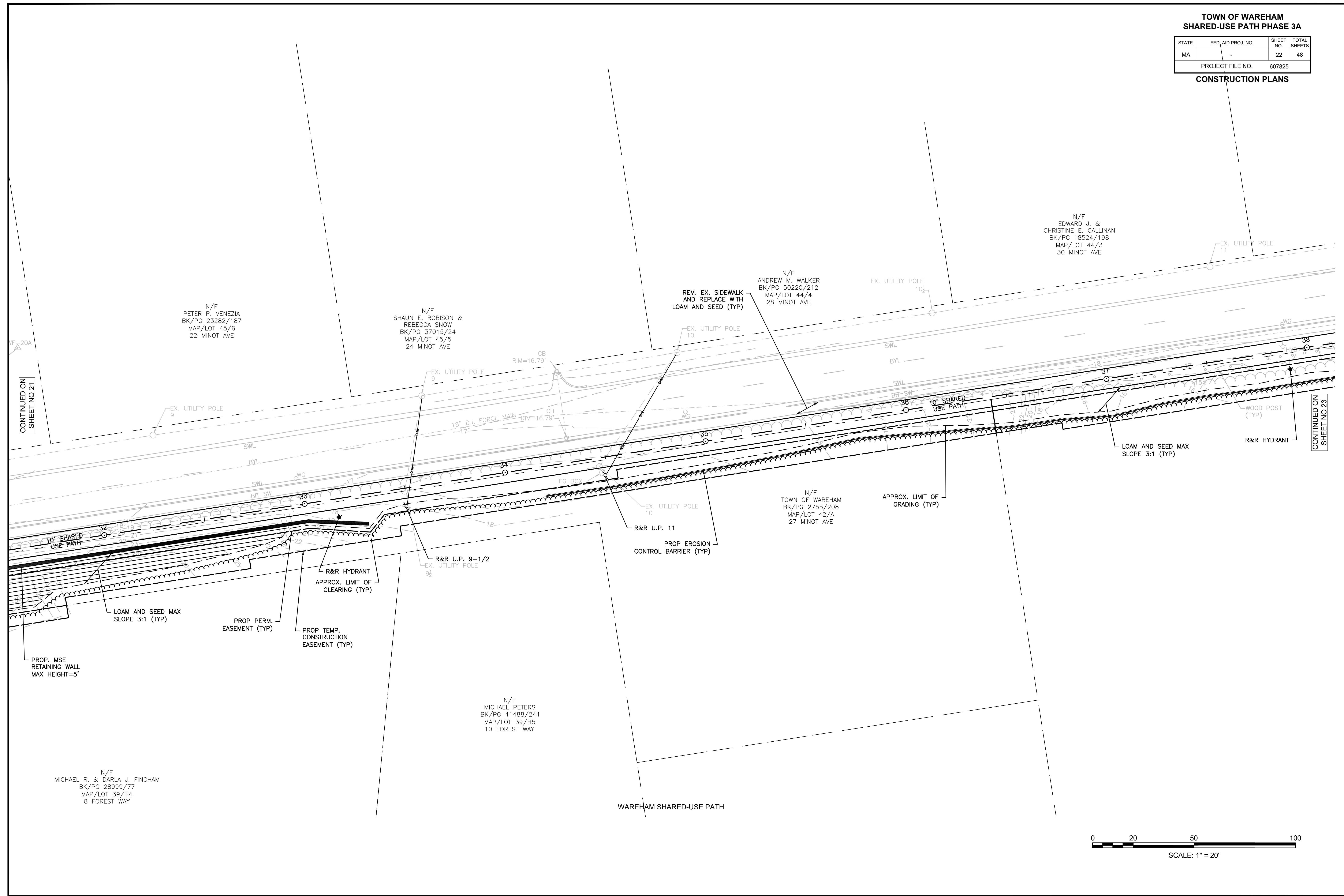
CONTINUED ON  
SHEET NO 22



TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	22	48
PROJECT FILE NO.		607825	

CONSTRUCTION PLANS



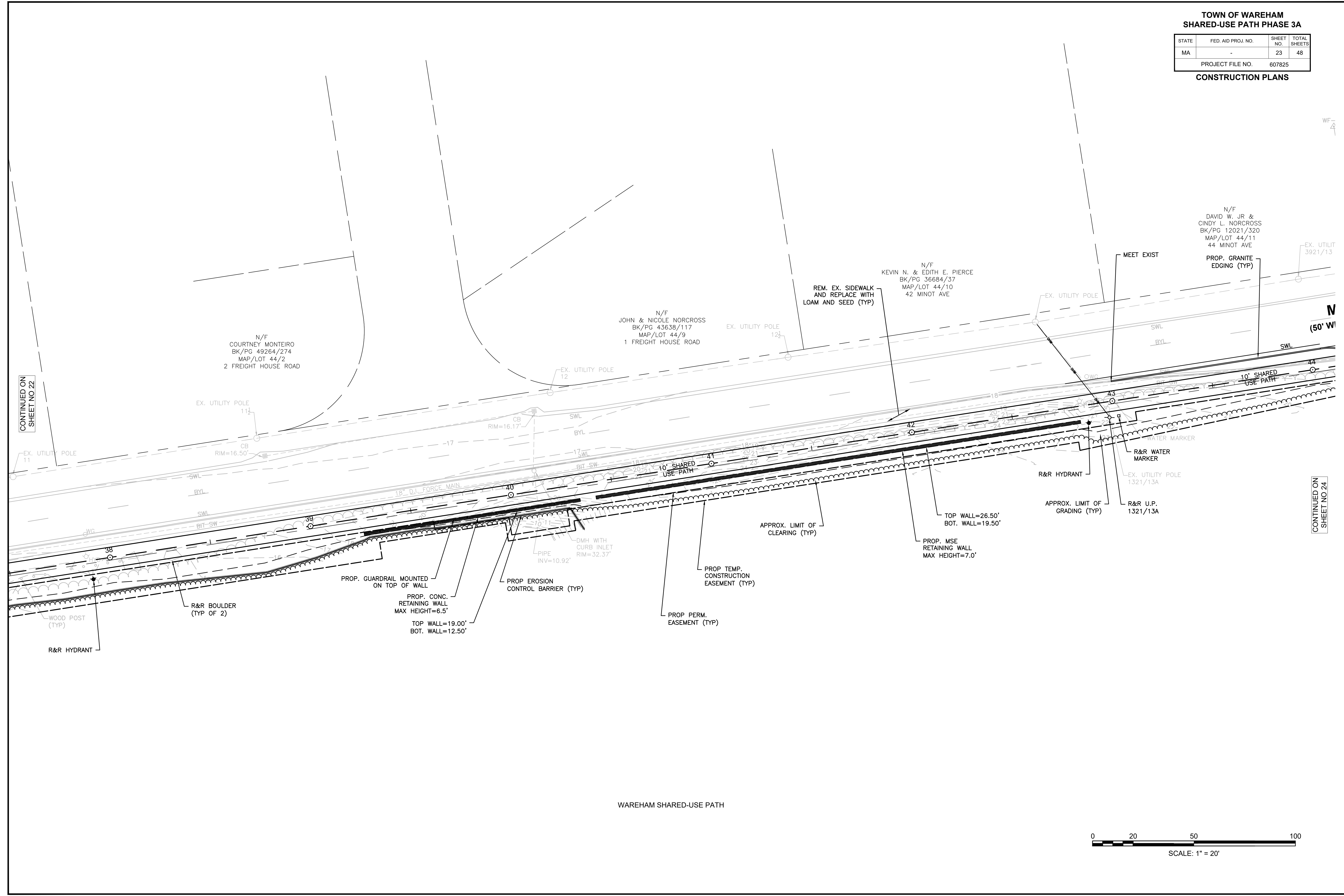
CONTINUED ON  
SHEET NO 21

CONTINUED ON  
SHEET NO 23

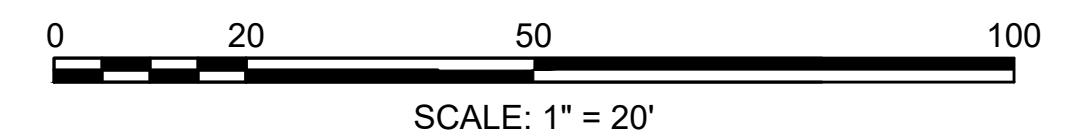
TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	23	48
PROJECT FILE NO.		607825	

CONSTRUCTION PLANS



WAREHAM SHARED-USE PATH



CONTINUED ON  
SHEET NO 22

CONTINUED ON  
SHEET NO 24

607825\_H01(DSIGN).DWG Plotted on 14-Feb-2020 8:11 PM

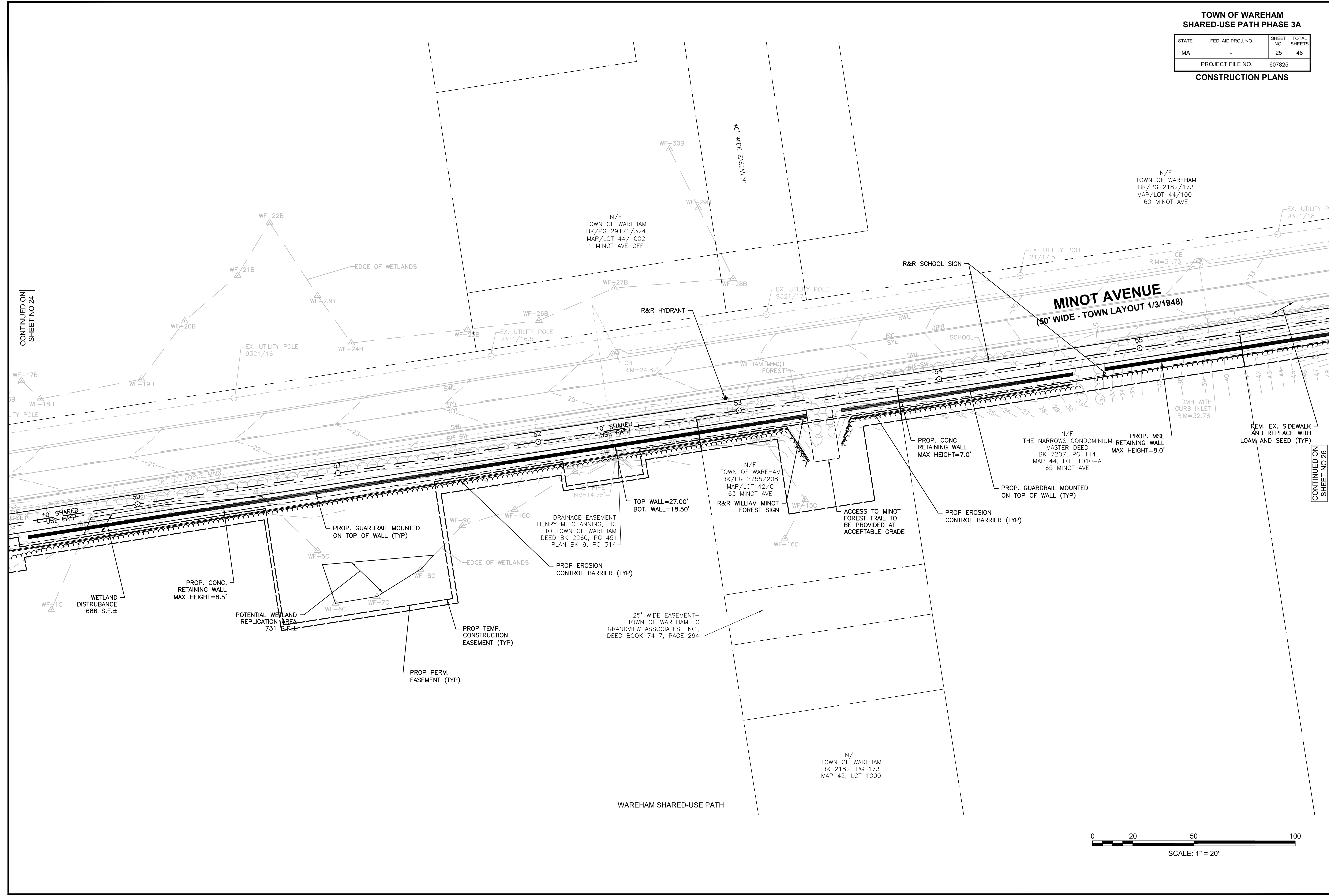




**TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A**

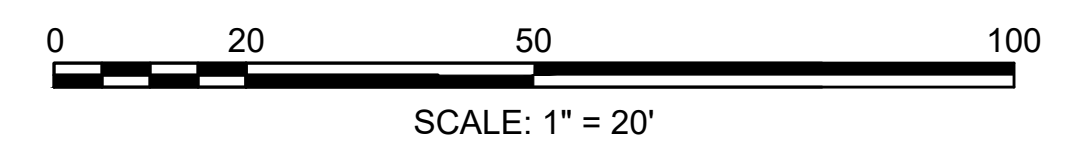
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	25	48
PROJECT FILE NO.		607825	

**CONSTRUCTION PLANS**



CONTINUED ON SHEET NO 24

CONTINUED ON SHEET NO 26



TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	26	48
PROJECT FILE NO.		607825	

CONSTRUCTION PLANS

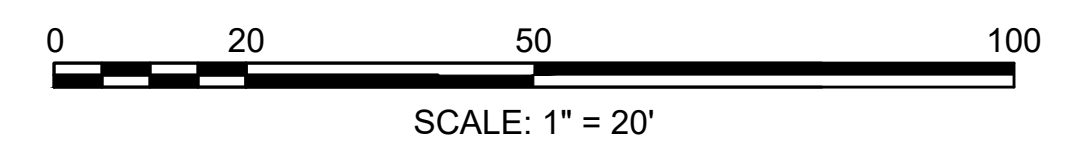
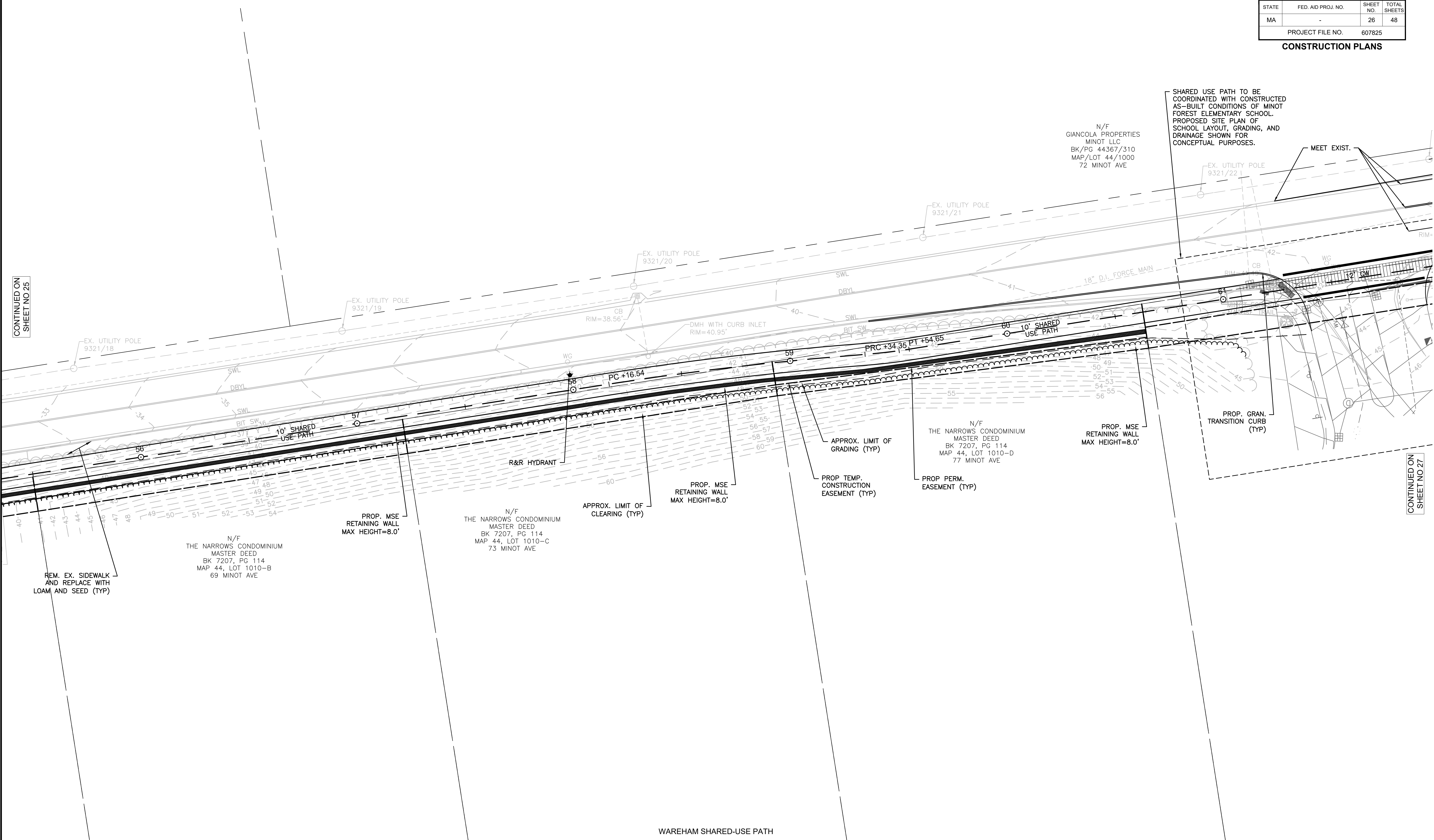
N/F  
GIANCOLA PROPERTIES  
MINOT LLC  
BK/PG 44367/310  
MAP/LOT 44/1000  
72 MINOT AVE

SHARED USE PATH TO BE  
COORDINATED WITH CONSTRUCTED  
AS-BUILT CONDITIONS OF MINOT  
FOREST ELEMENTARY SCHOOL.  
PROPOSED SITE PLAN OF  
SCHOOL LAYOUT, GRADING, AND  
DRAINAGE SHOWN FOR  
CONCEPTUAL PURPOSES.

MEET EXIST.

CONTINUED ON  
SHEET NO 25

CONTINUED ON  
SHEET NO 27



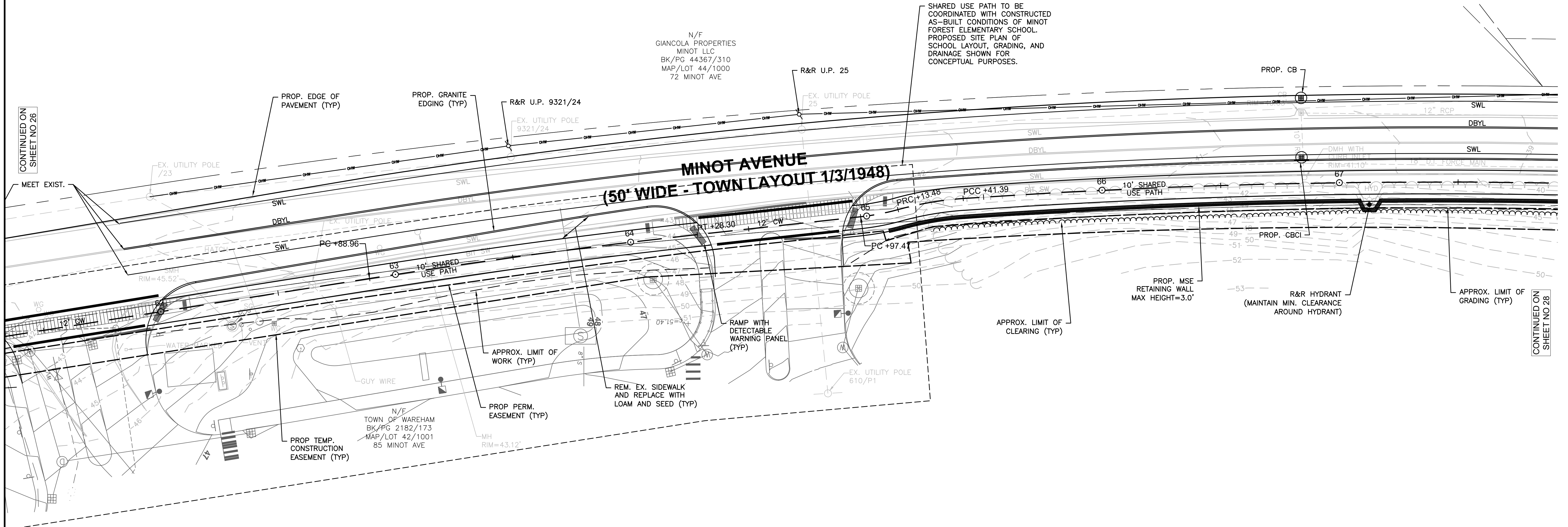
TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	27	48
PROJECT FILE NO.		607825	

CONSTRUCTION PLANS

CONTINUED ON  
SHEET NO 26

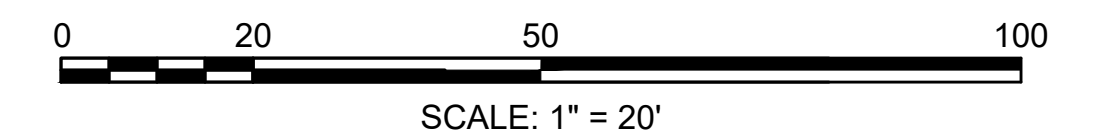
CONTINUED ON  
SHEET NO 28



N/F  
GIANCOLA PROPERTIES  
MINOT LLC  
BK/PG 44367/310  
MAP/LOT 44/1000  
72 MINOT AVE

N/F  
TOWN OF WAREHAM  
BK/PG 2182/173  
MAP/LOT 42/1001  
85 MINOT AVE

WAREHAM SHARED-USE PATH



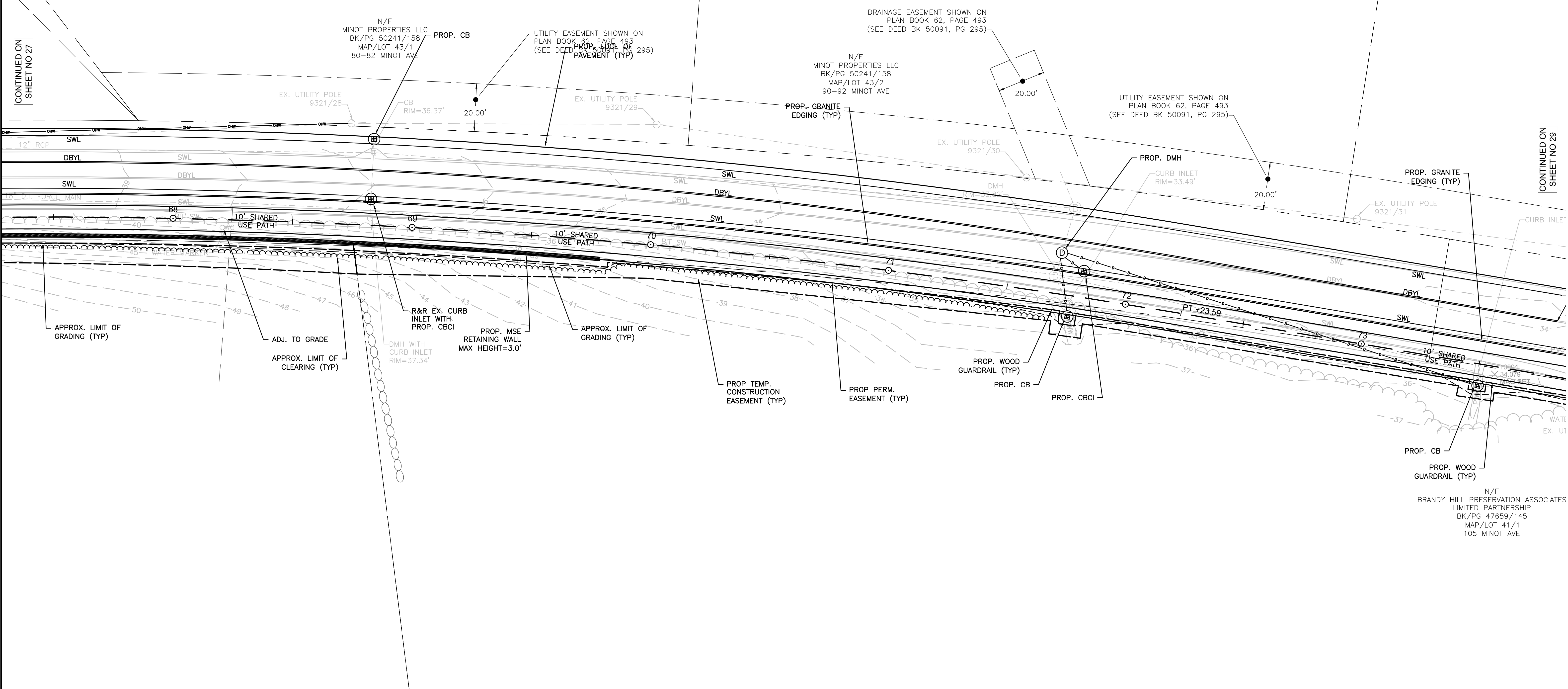
**TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	28	48
PROJECT FILE NO. 607825			

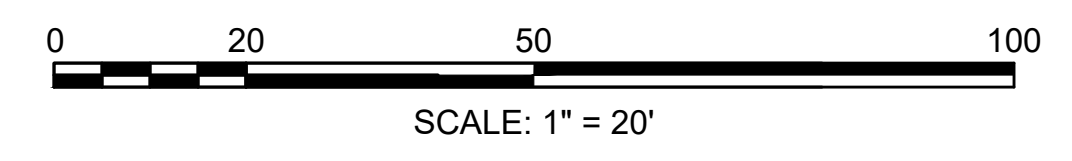
**CONSTRUCTION PLANS**

CONTINUED ON  
SHEET NO 27

CONTINUED ON  
SHEET NO 29



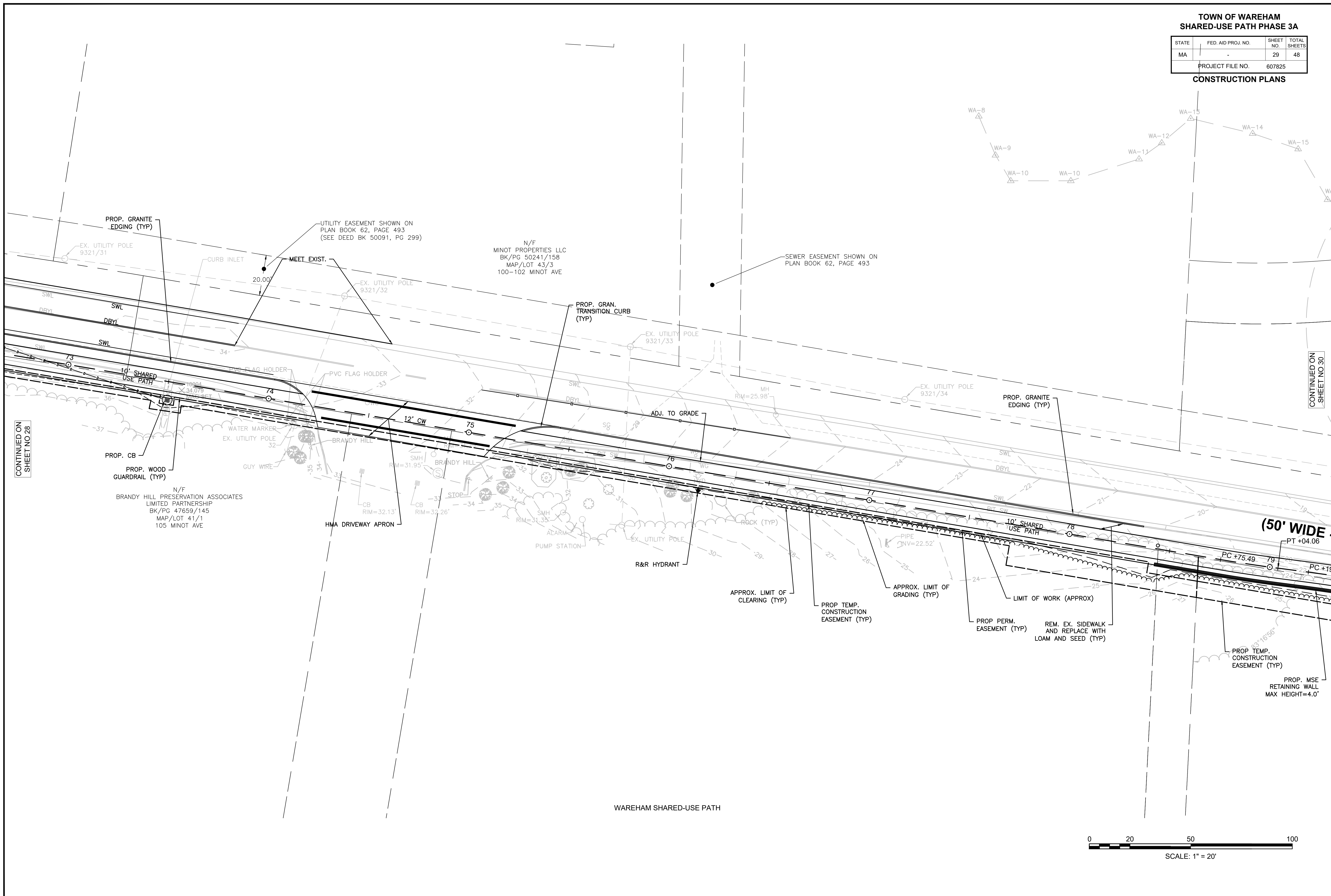
WAREHAM SHARED-USE PATH



TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

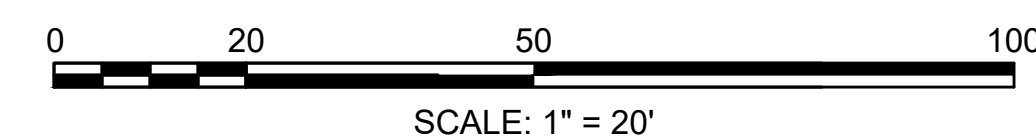
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	29	48
PROJECT FILE NO.		607825	

CONSTRUCTION PLANS



CONTINUED ON SHEET NO 28

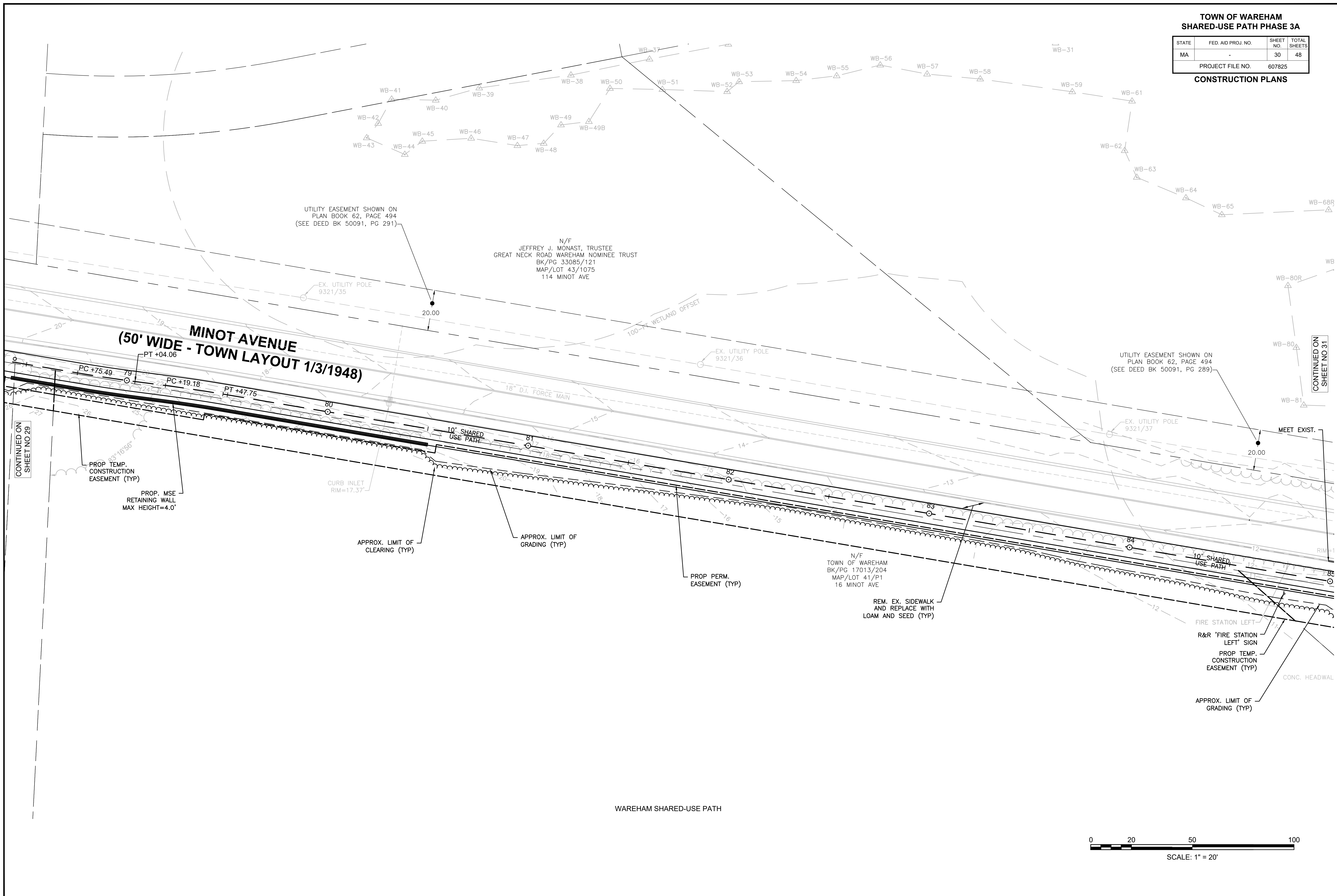
CONTINUED ON SHEET NO 30



TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	30	48
PROJECT FILE NO.		607825	

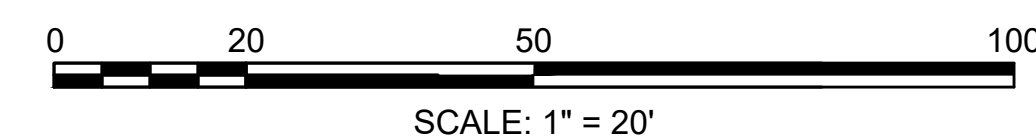
CONSTRUCTION PLANS



607825\_H01(DESIGN).DWG Plotted on 14-Feb-2020 8:13 PM

CONTINUED ON SHEET NO 29

CONTINUED ON SHEET NO 31

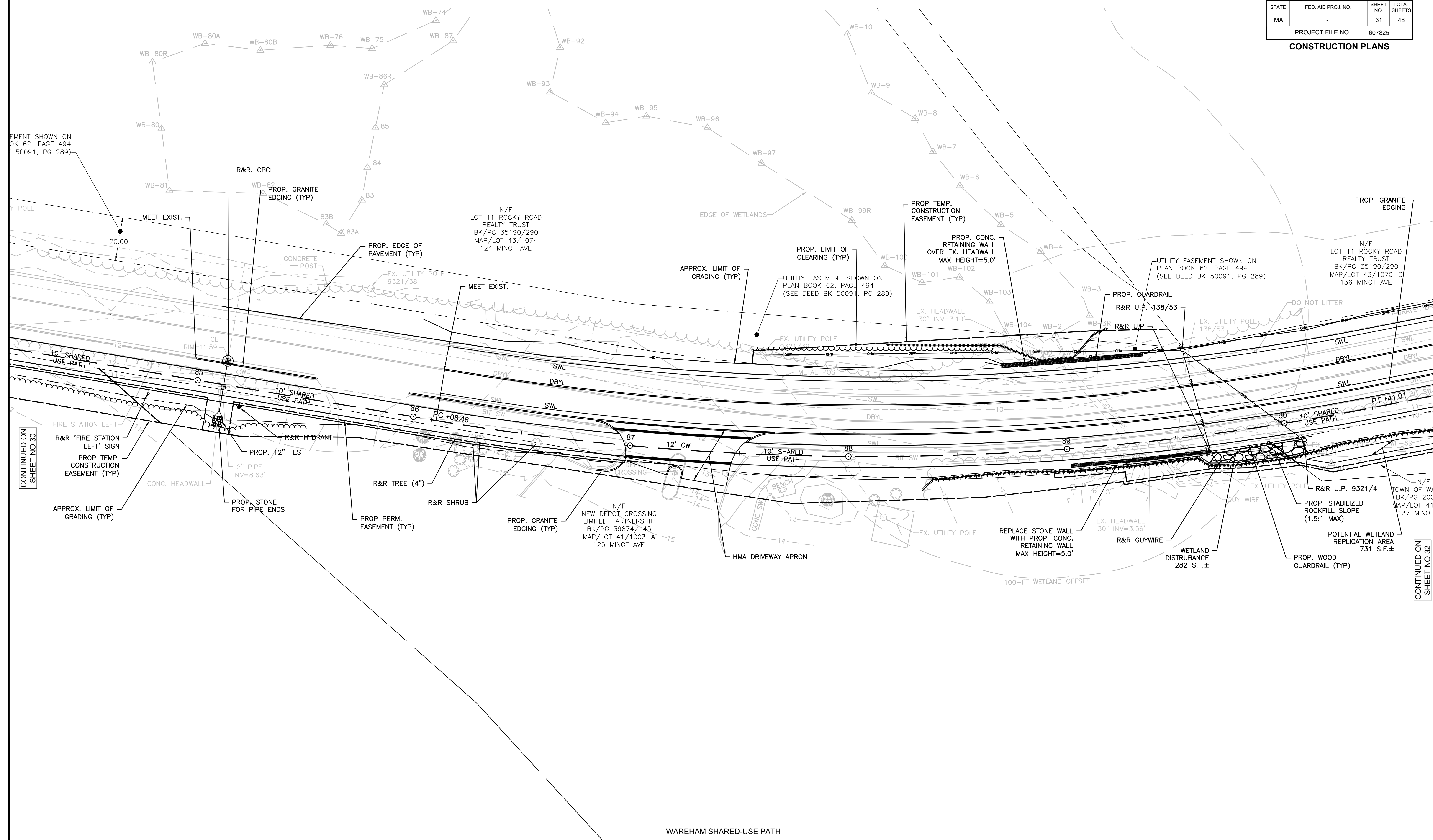


WAREHAM SHARED-USE PATH

**TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	31	48
PROJECT FILE NO.		607825	

**CONSTRUCTION PLANS**

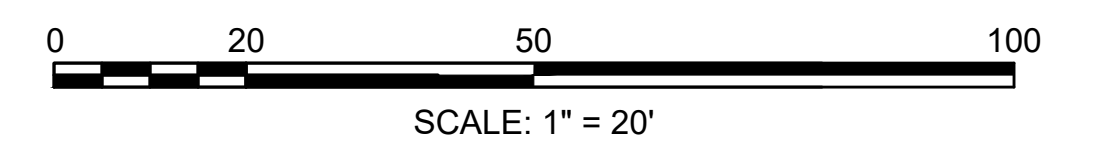


ELEMENT SHOWN ON  
BOOK 62, PAGE 494  
(SEE DEED BK 50091, PG 289)

CONTINUED ON  
SHEET NO 30

CONTINUED ON  
SHEET NO 32

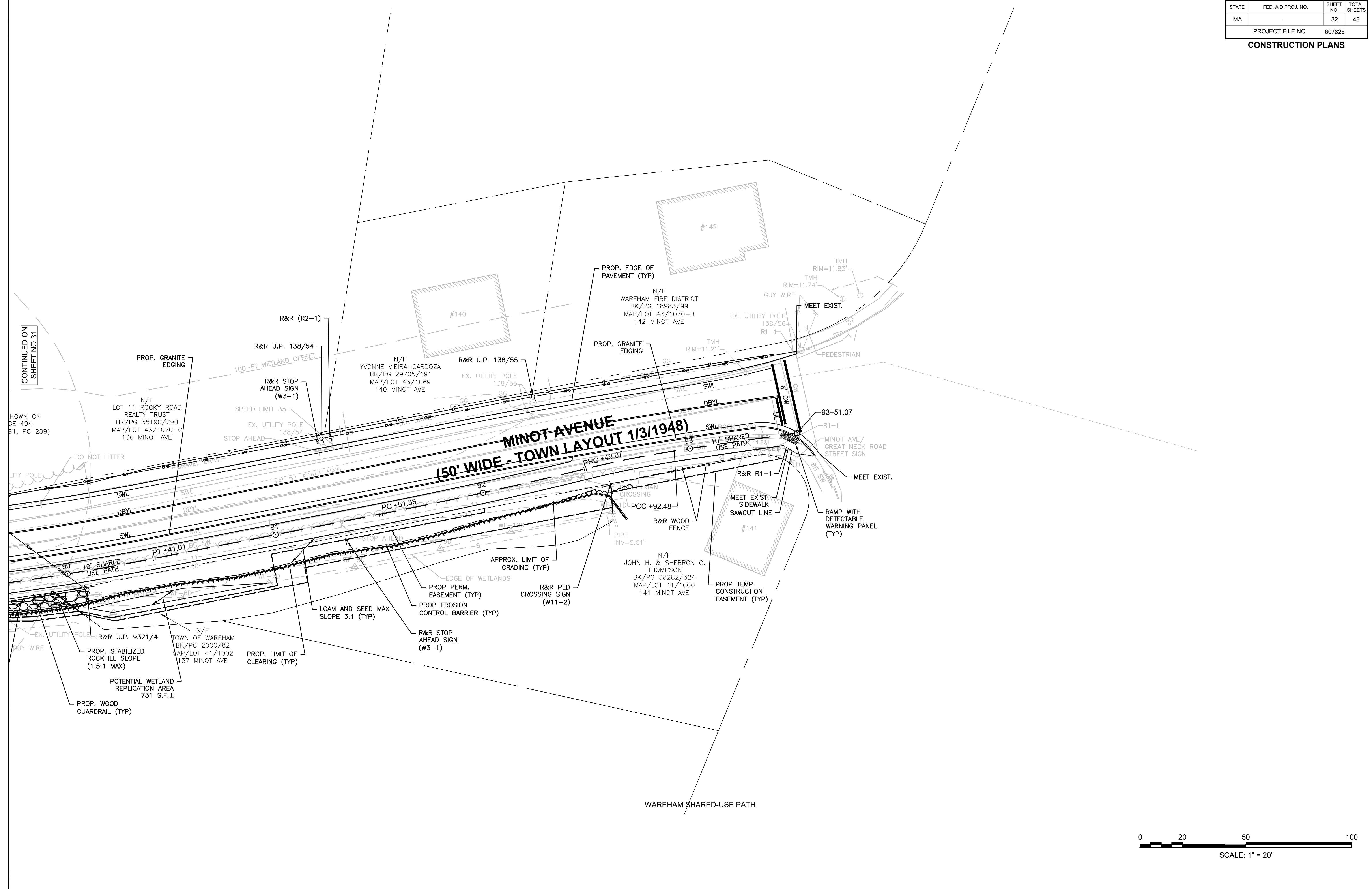
WAREHAM SHARED-USE PATH



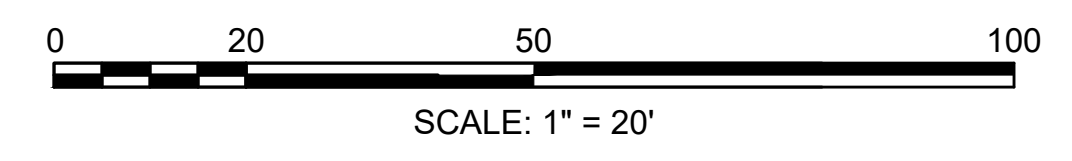
TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	32	48
PROJECT FILE NO.		607825	

CONSTRUCTION PLANS



CONTINUED ON SHEET NO 31.



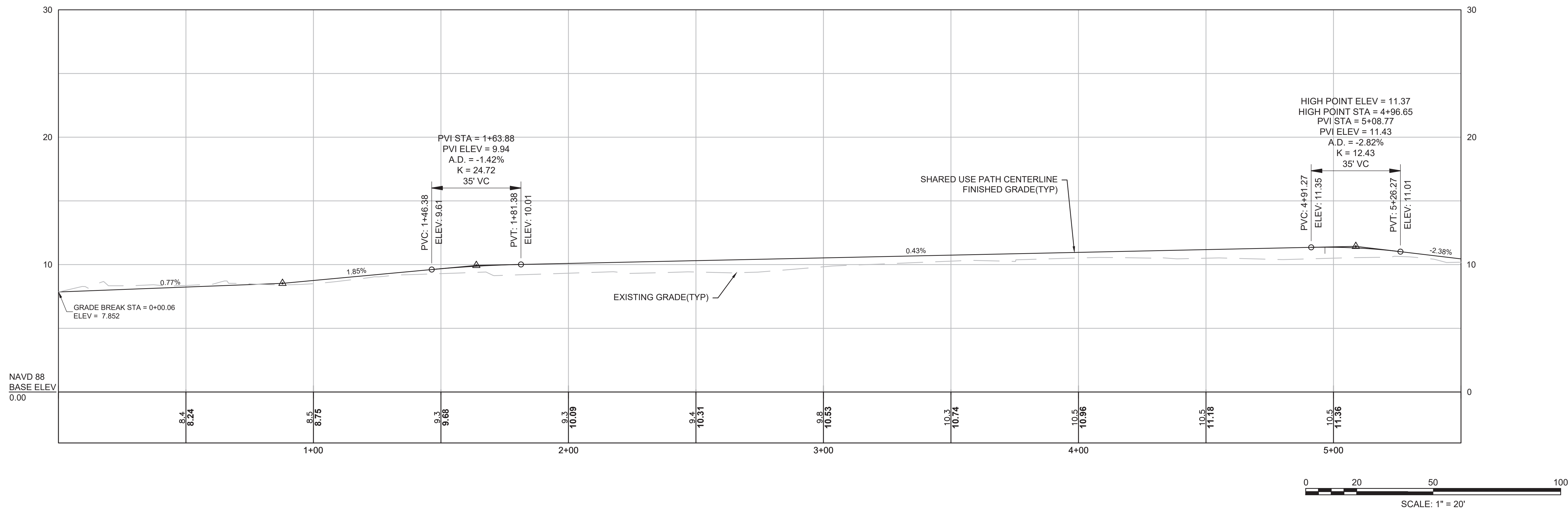


TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	33	48
PROJECT FILE NO.		607825	

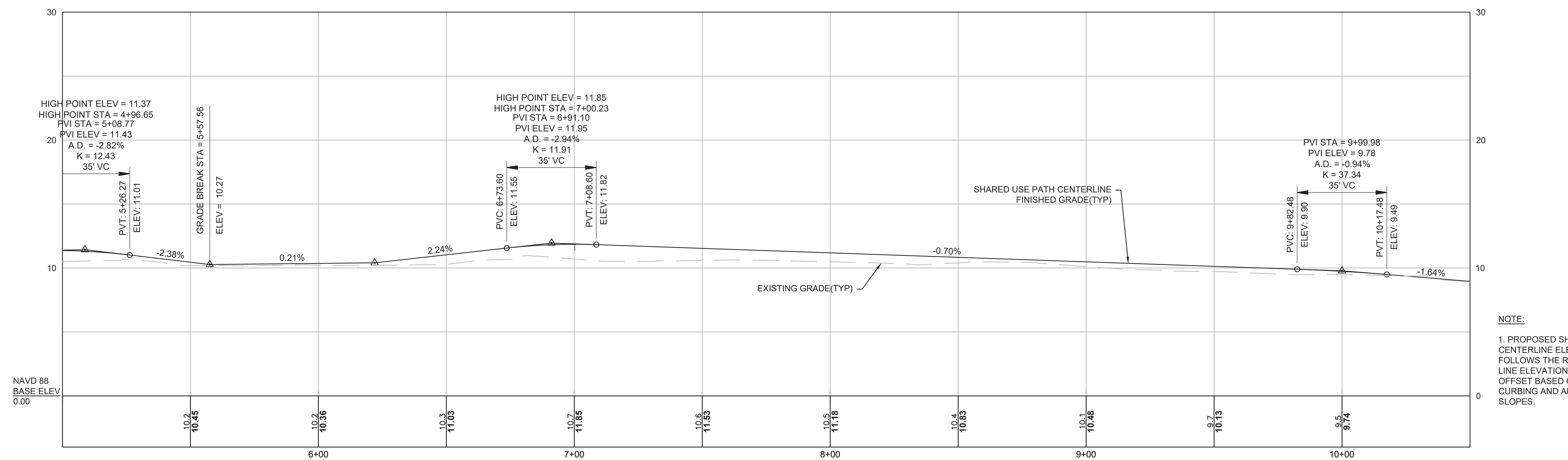
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED BELOW

SHARED USE PATH CENTERLINE



CONTINUED ON SHEET NO 34

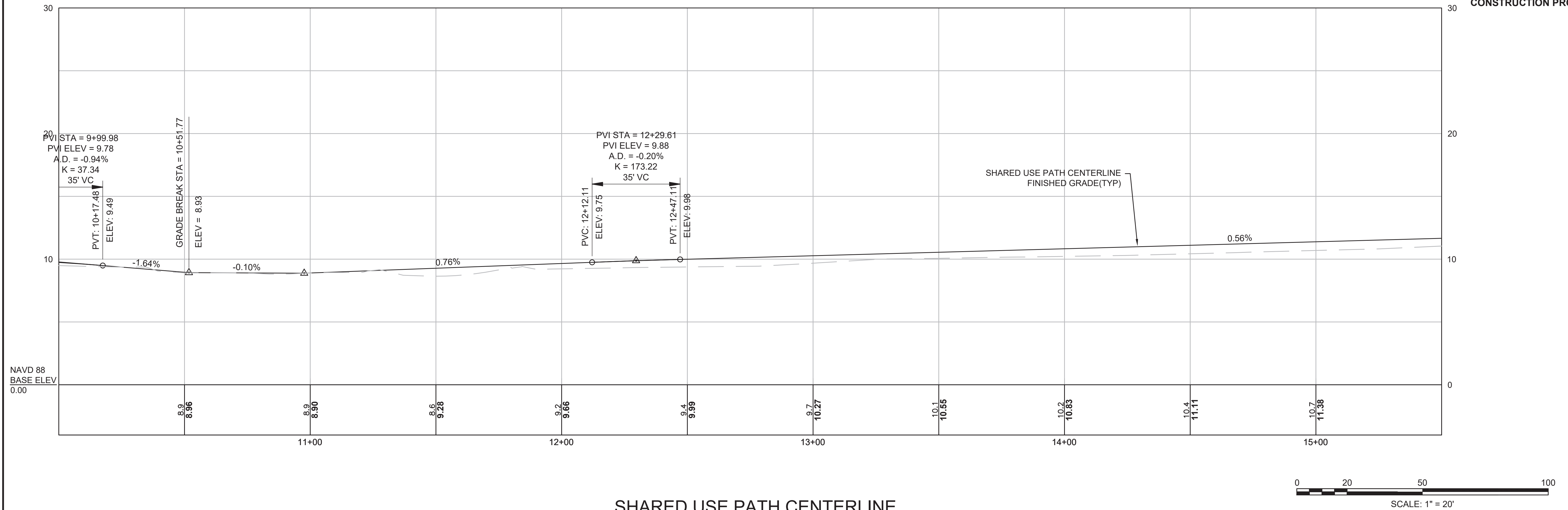
NOTE:  
1. PROPOSED SHARED USE PATH CENTERLINE ELEVATION GENERALLY FOLLOWS THE ROADWAY GUTTER LINE ELEVATION WITH A VERTICAL OFFSET BASED ON THE VERTICAL CURBING AND ADJACENT CROSS SLOPES.

TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	34	48
PROJECT FILE NO.		607825	

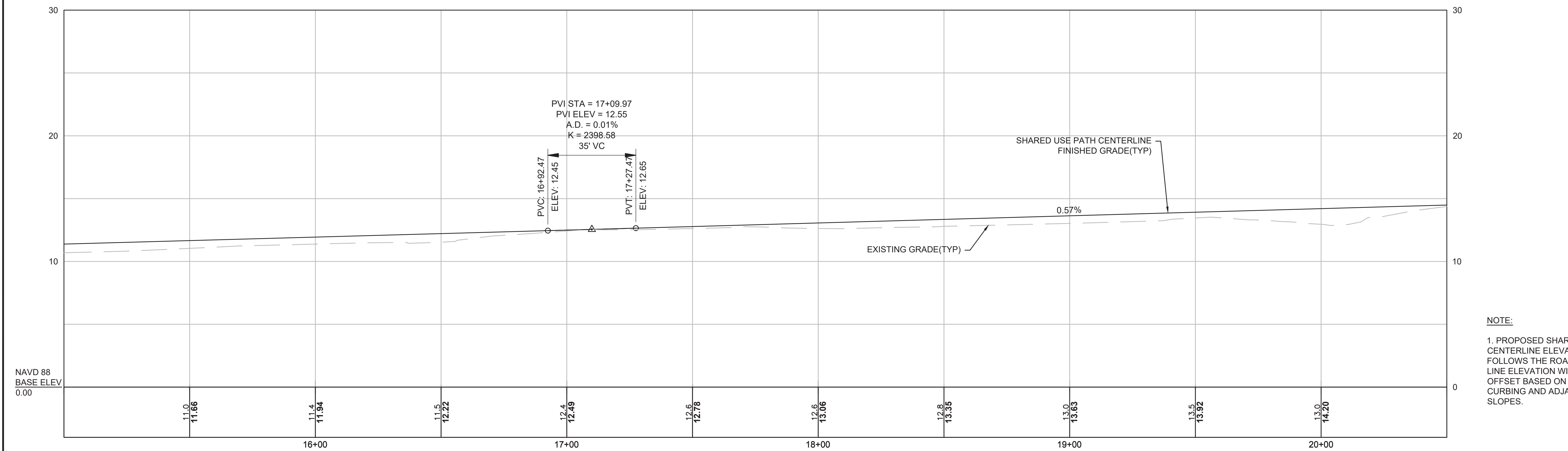
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED  
BELOW

SHARED USE PATH CENTERLINE



CONTINUED ON  
SHEET NO 35

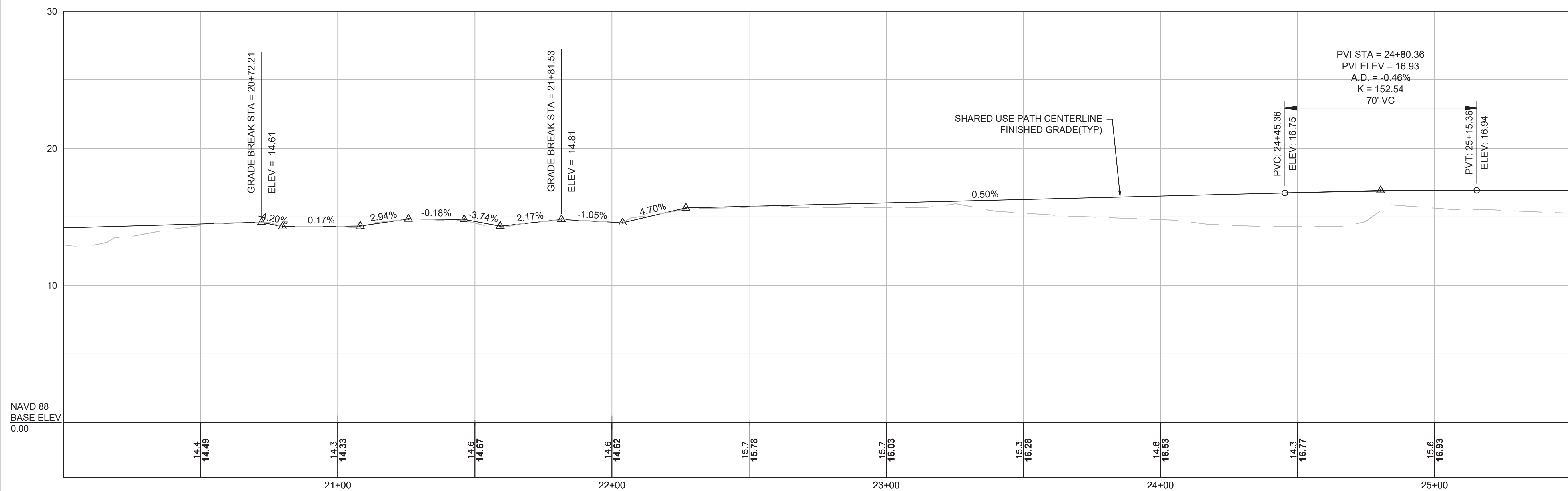
NOTE:  
1. PROPOSED SHARED USE PATH CENTERLINE ELEVATION GENERALLY FOLLOWS THE ROADWAY GUTTER LINE ELEVATION WITH A VERTICAL OFFSET BASED ON THE VERTICAL CURBING AND ADJACENT CROSS SLOPES.

TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

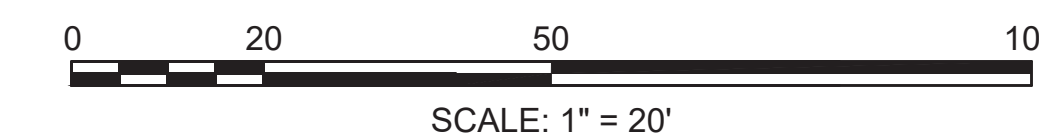
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	35	48
PROJECT FILE NO.		607825	

CONSTRUCTION PROFILE

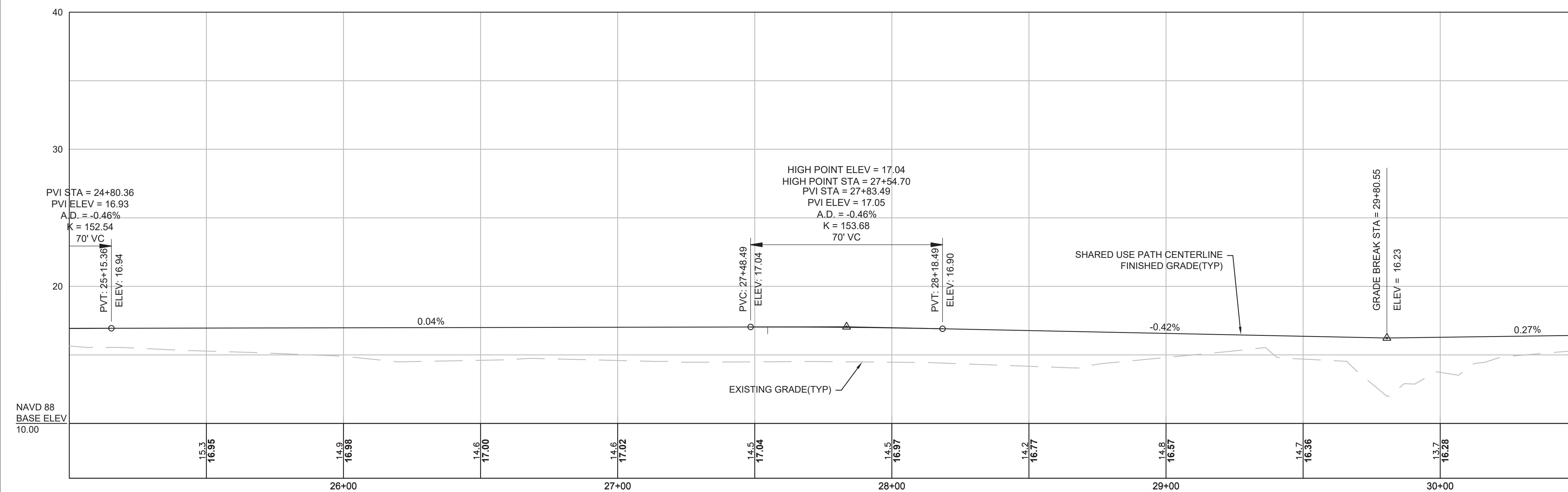
SHARED USE PATH CENTERLINE



CONTINUED  
BELOW



SHARED USE PATH CENTERLINE



CONTINUED ON  
SHEET NO 36

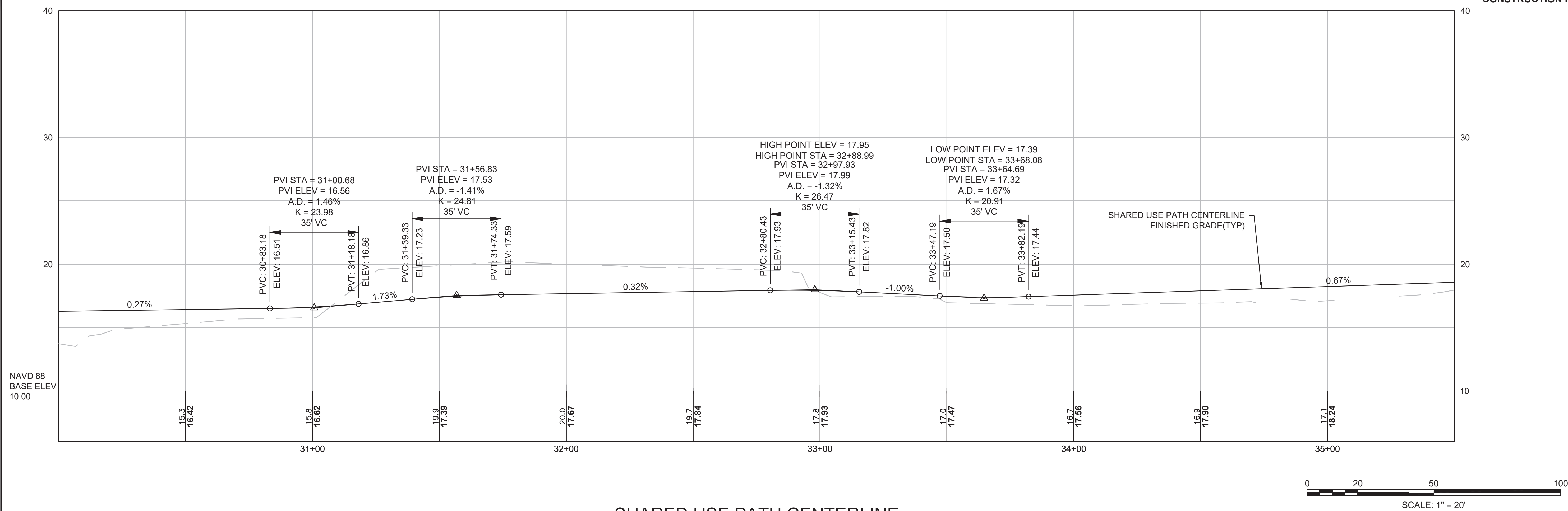
NOTE:  
1. PROPOSED SHARED USE PATH CENTERLINE ELEVATION GENERALLY FOLLOWS THE ROADWAY GUTTER LINE ELEVATION WITH A VERTICAL OFFSET BASED ON THE VERTICAL CURBING AND ADJACENT CROSS SLOPES.

TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	36	48
PROJECT FILE NO.		607825	

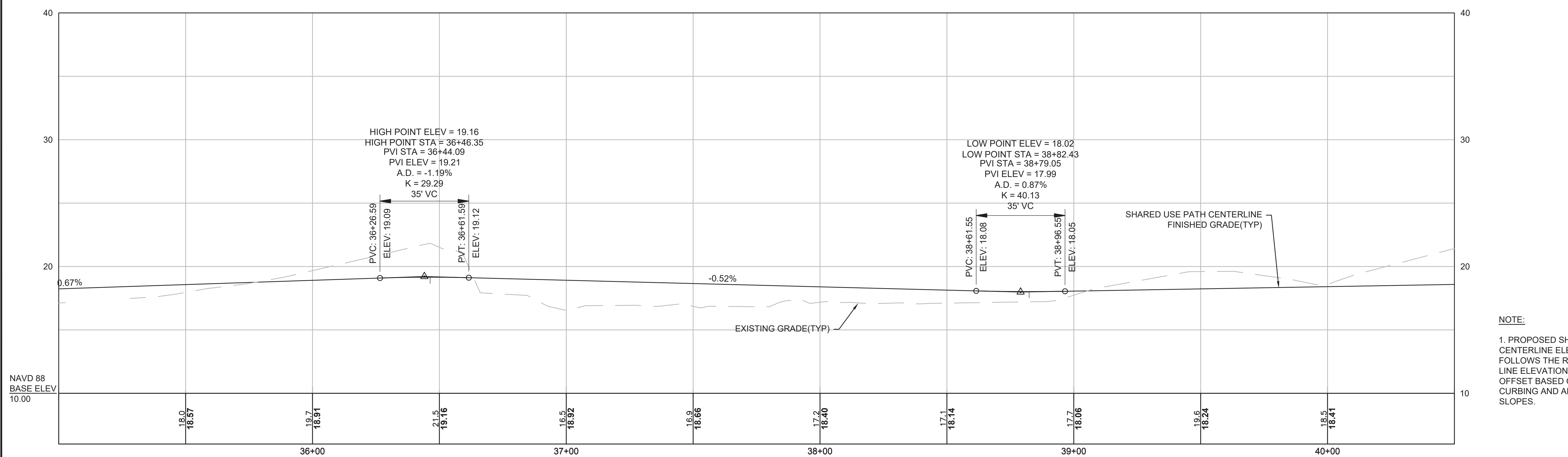
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED  
BELOW

SHARED USE PATH CENTERLINE



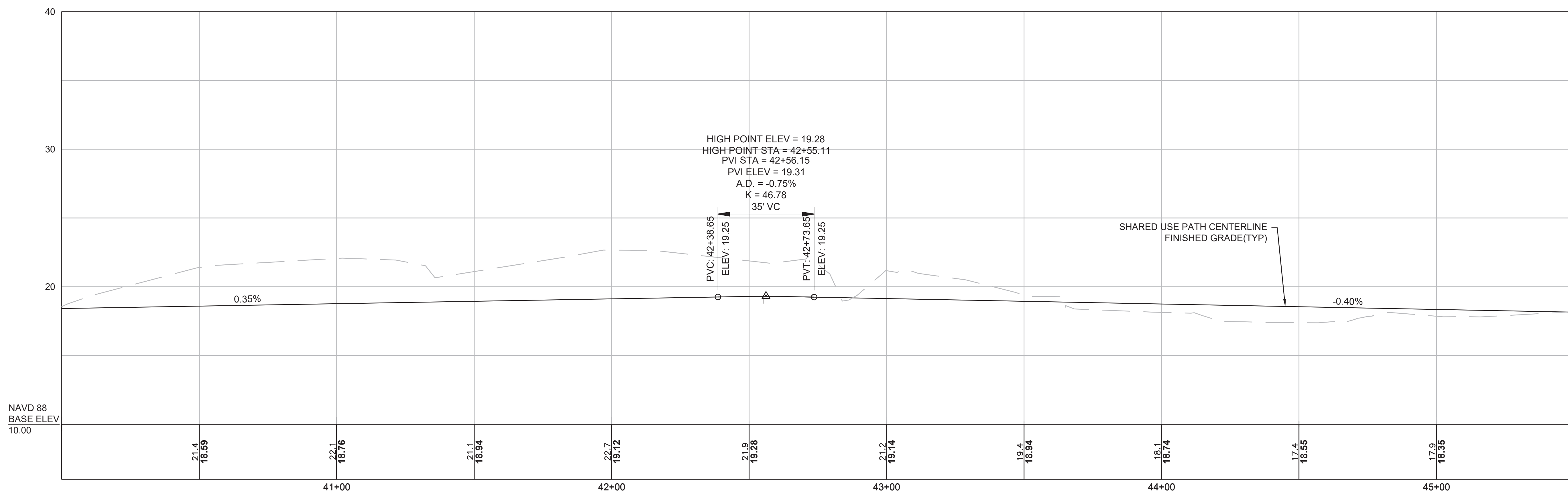
CONTINUED ON  
SHEET NO 37

NOTE:  
1. PROPOSED SHARED USE PATH CENTERLINE ELEVATION GENERALLY FOLLOWS THE ROADWAY GUTTER LINE ELEVATION WITH A VERTICAL OFFSET BASED ON THE VERTICAL CURBING AND ADJACENT CROSS SLOPES.

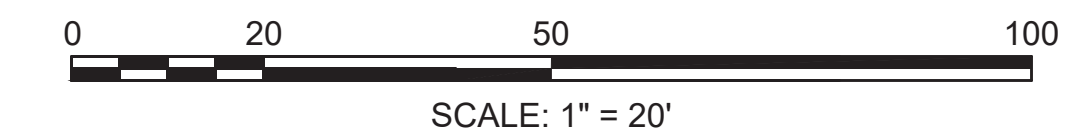
TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	37	48
PROJECT FILE NO.		607825	

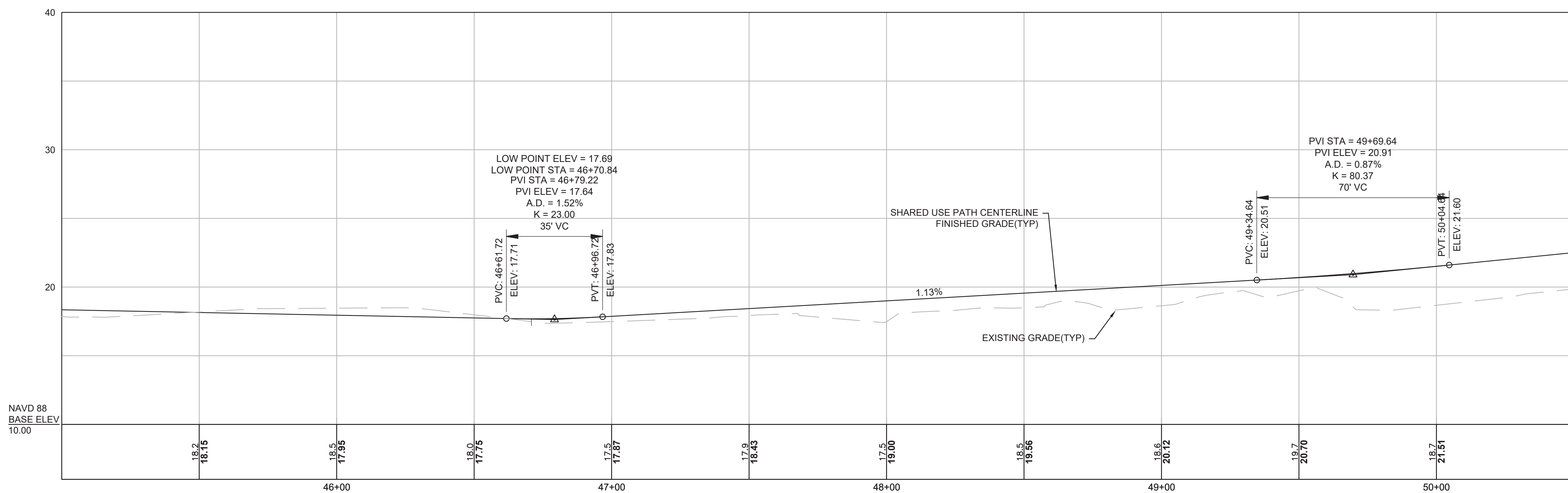
SHARED USE PATH CENTERLINE



CONSTRUCTION PROFILE



SHARED USE PATH CENTERLINE



NOTE:  
1. PROPOSED SHARED USE PATH CENTERLINE ELEVATION GENERALLY FOLLOWS THE ROADWAY GUTTER LINE ELEVATION WITH A VERTICAL OFFSET BASED ON THE VERTICAL CURBING AND ADJACENT CROSS SLOPES.

CONTINUED BELOW

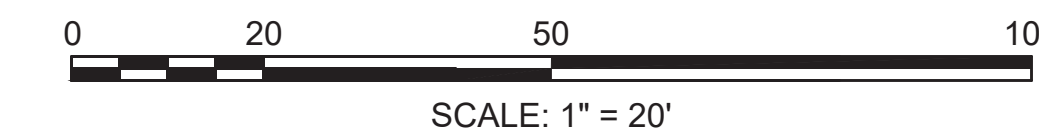
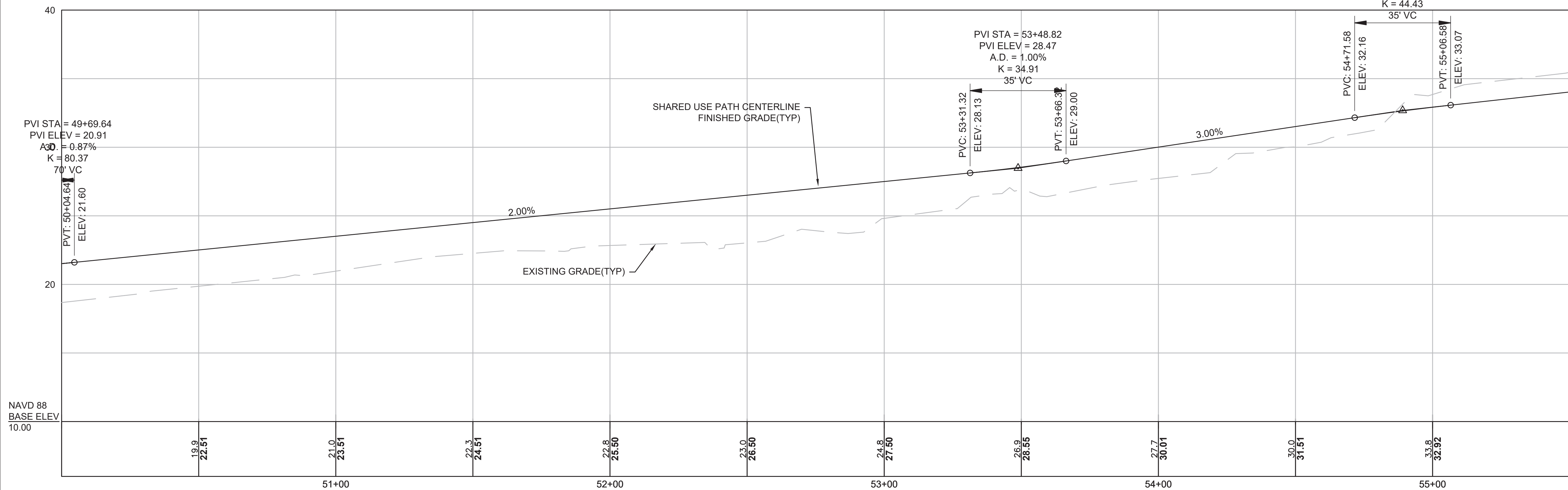
CONTINUED ON SHEET NO 38

TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	38	48
PROJECT FILE NO.		607825	

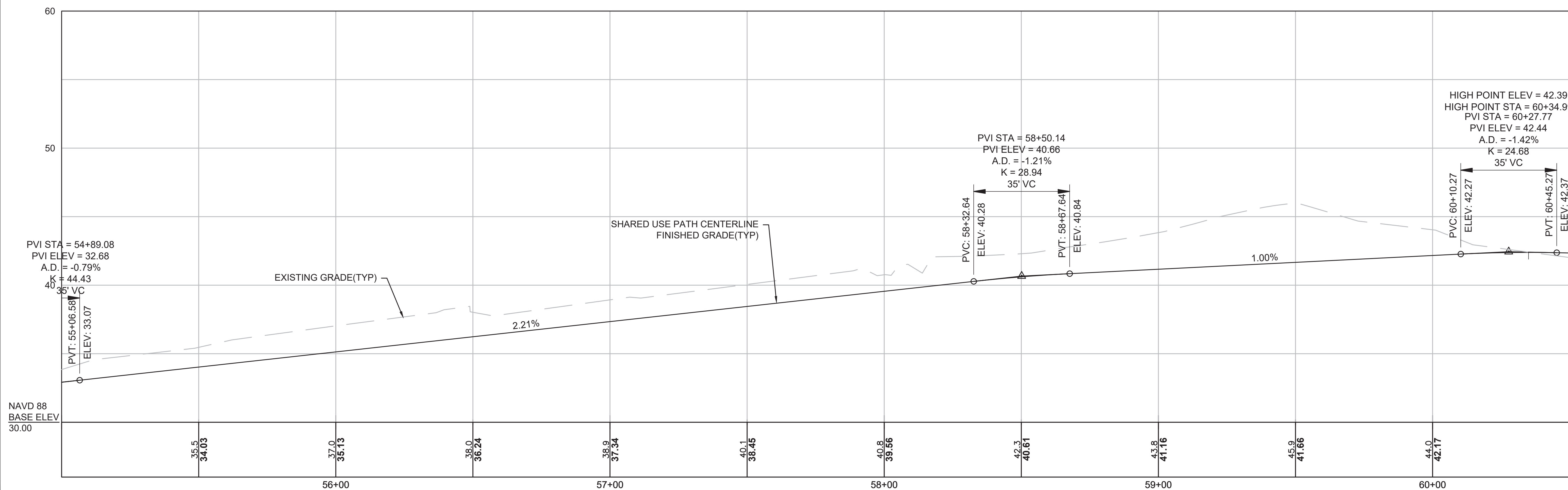
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED BELOW

SHARED USE PATH CENTERLINE



NOTE:  
1. PROPOSED SHARED USE PATH CENTERLINE ELEVATION GENERALLY FOLLOWS THE ROADWAY GUTTER LINE ELEVATION WITH A VERTICAL OFFSET BASED ON THE VERTICAL CURBING AND ADJACENT CROSS SLOPES.

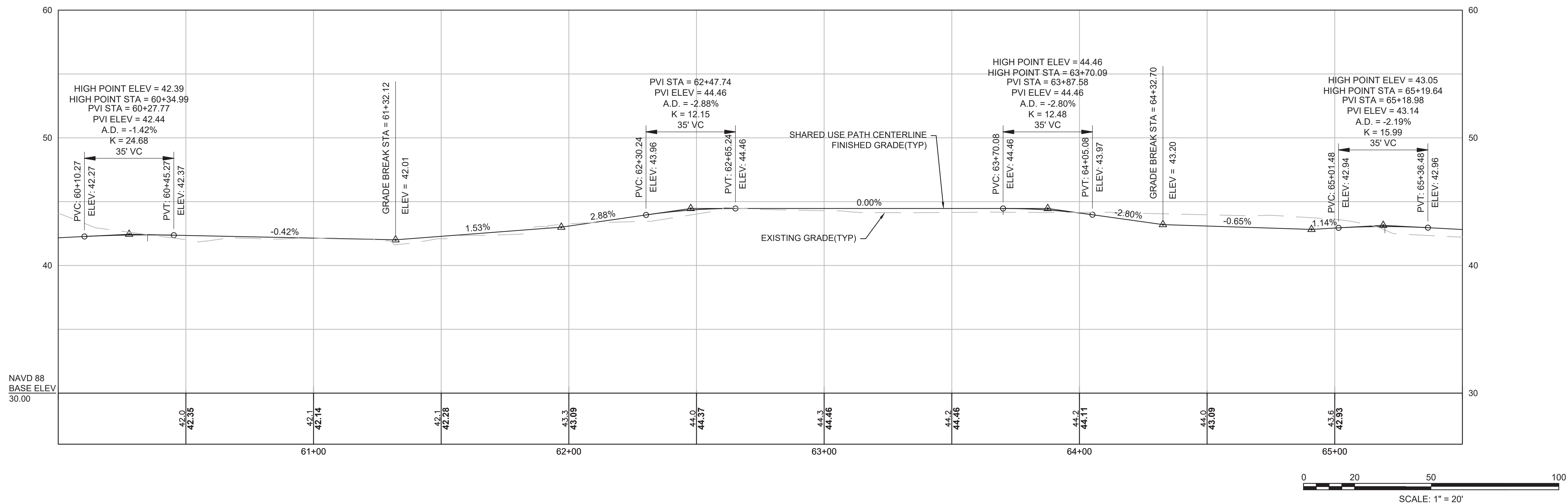
CONTINUED ON SHEET NO 39

TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	39	48
PROJECT FILE NO. 607825			

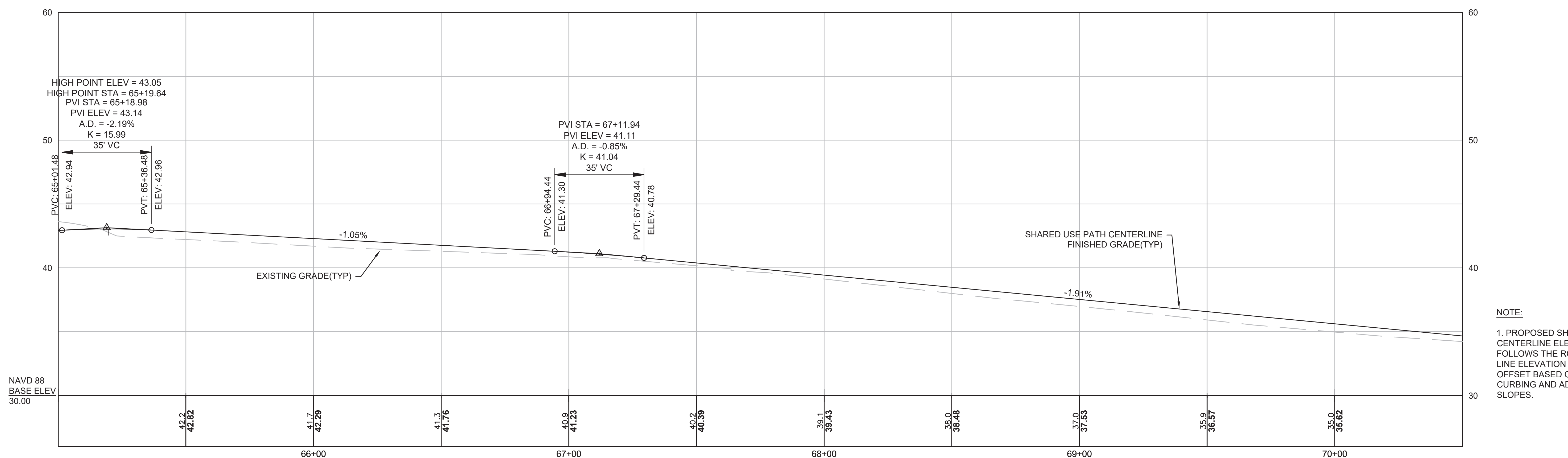
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED BELOW

SHARED USE PATH CENTERLINE



CONTINUED ON SHEET NO 40

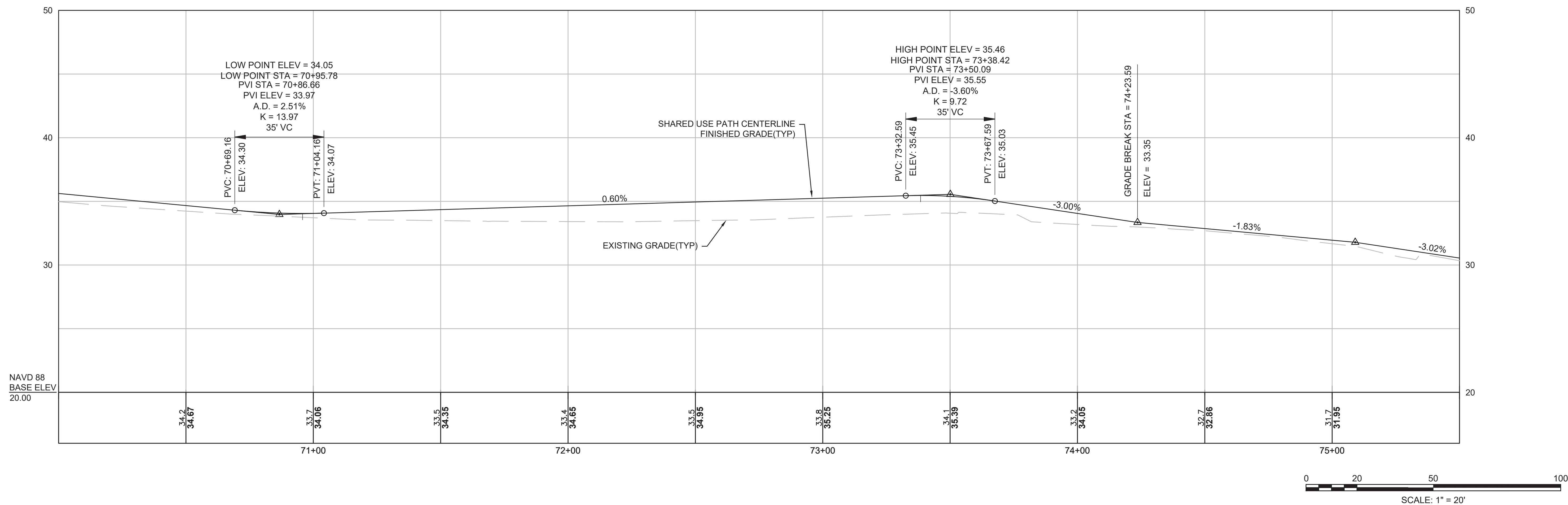
NOTE:  
1. PROPOSED SHARED USE PATH CENTERLINE ELEVATION GENERALLY FOLLOWS THE ROADWAY GUTTER LINE ELEVATION WITH A VERTICAL OFFSET BASED ON THE VERTICAL CURBING AND ADJACENT CROSS SLOPES.

TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	40	48
PROJECT FILE NO. 607825			

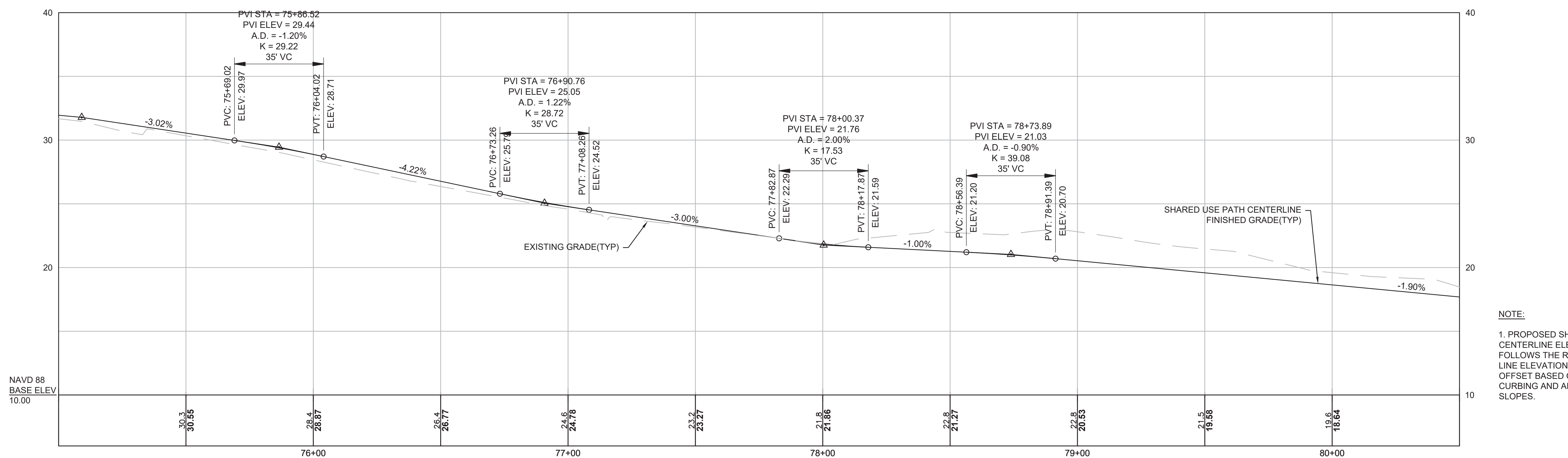
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED  
BELOW

SHARED USE PATH CENTERLINE



CONTINUED ON  
SHEET NO 41

NOTE:  
1. PROPOSED SHARED USE PATH CENTERLINE ELEVATION GENERALLY FOLLOWS THE ROADWAY GUTTER LINE ELEVATION WITH A VERTICAL OFFSET BASED ON THE VERTICAL CURBING AND ADJACENT CROSS SLOPES.

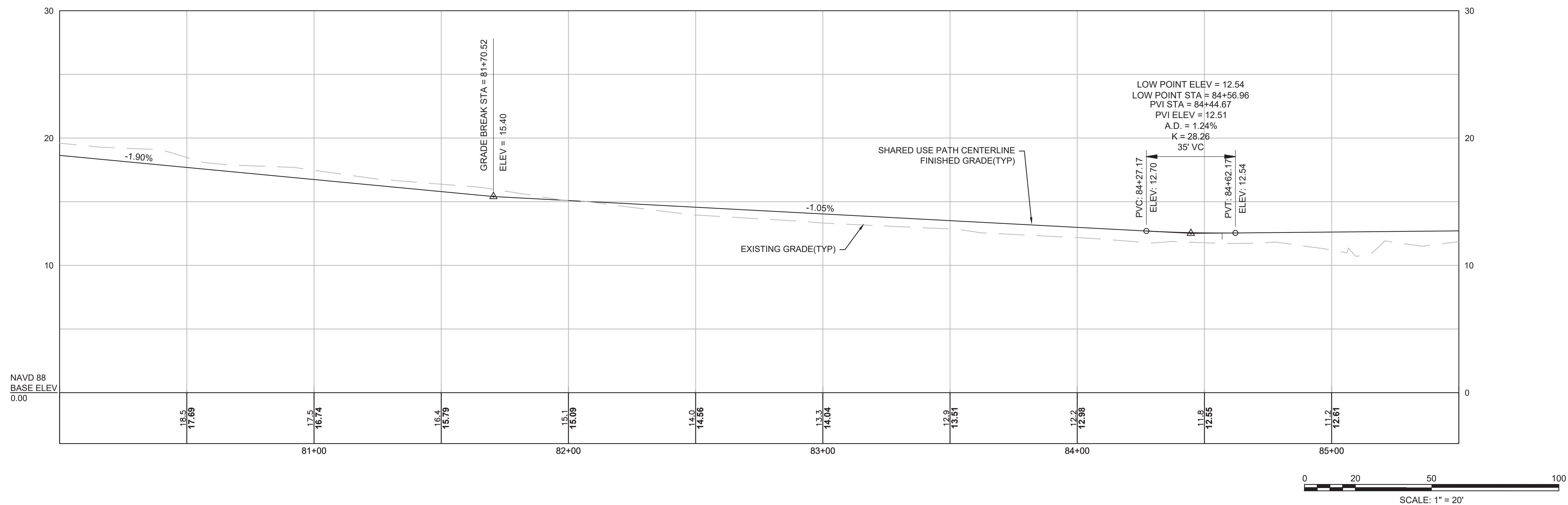


TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	41	48
PROJECT FILE NO. 607825			

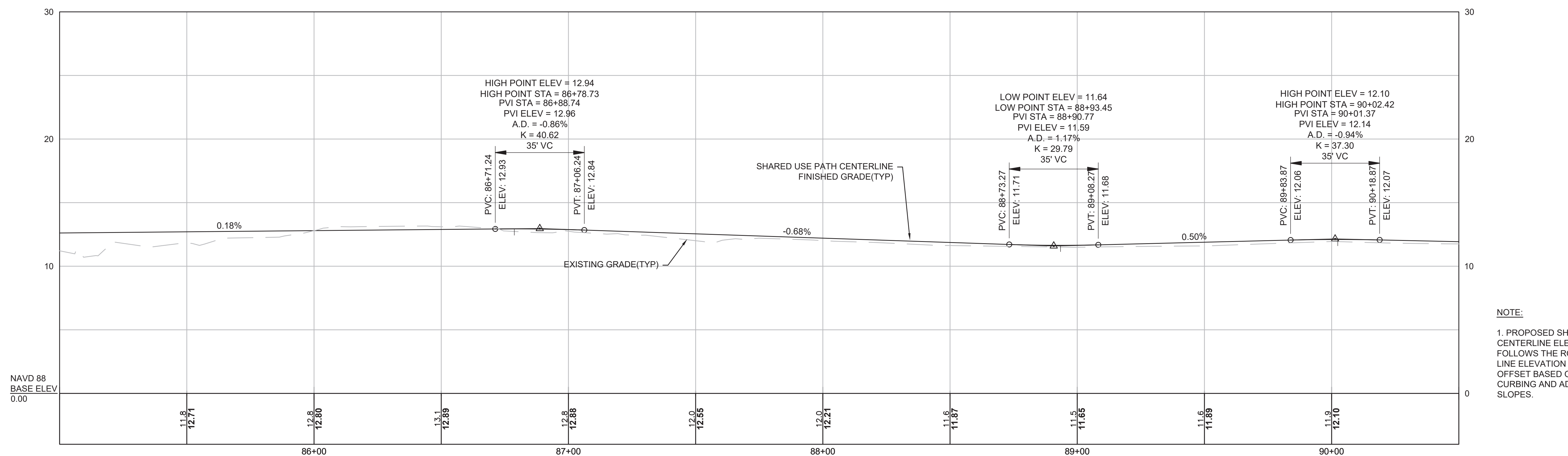
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED  
BELOW

SHARED USE PATH CENTERLINE



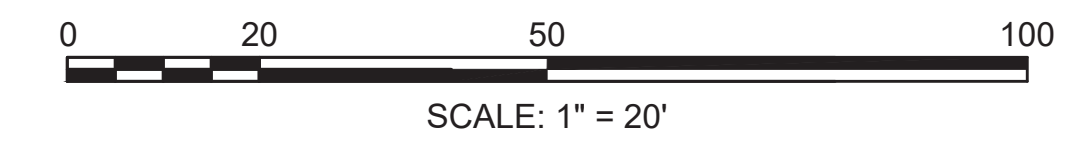
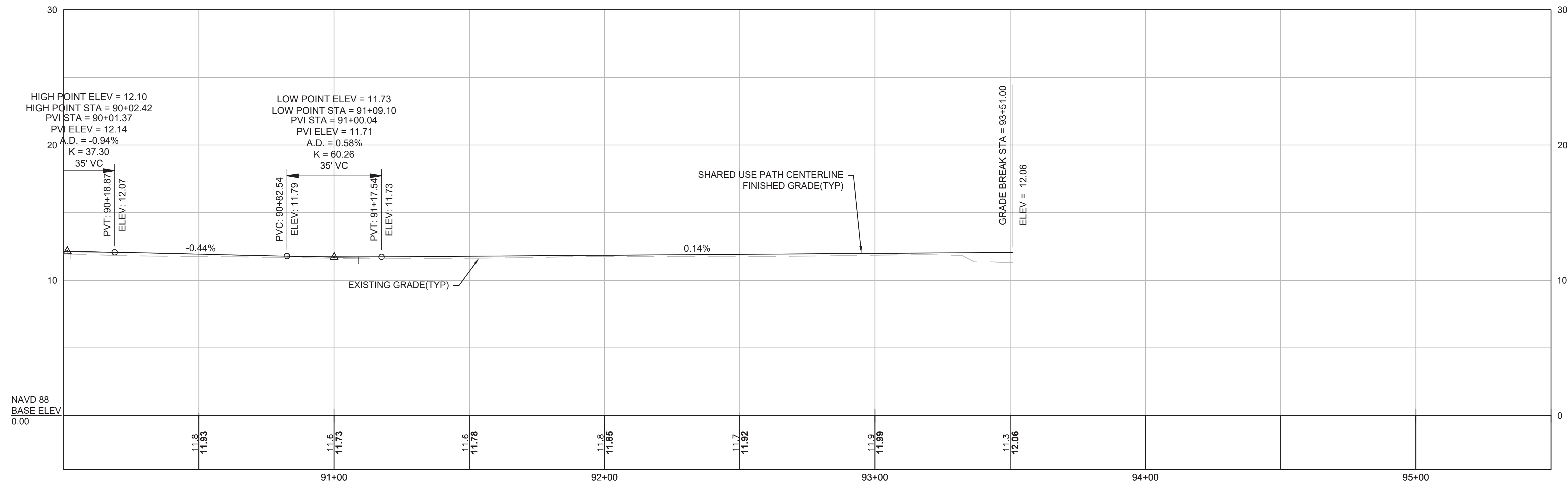
CONTINUED ON  
SHEET NO 42

TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

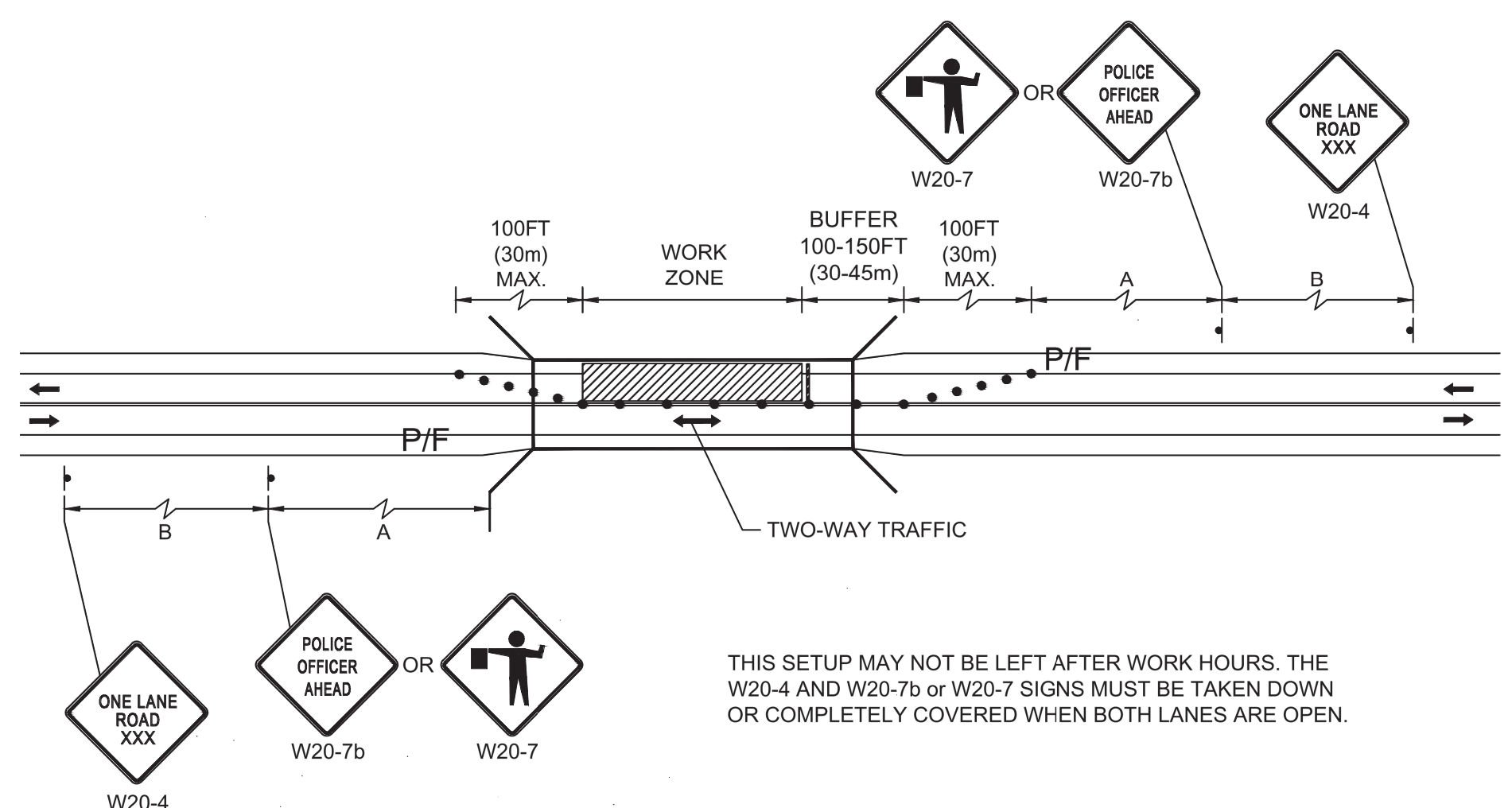
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	42	48
PROJECT FILE NO.		607825	

CONSTRUCTION PROFILE

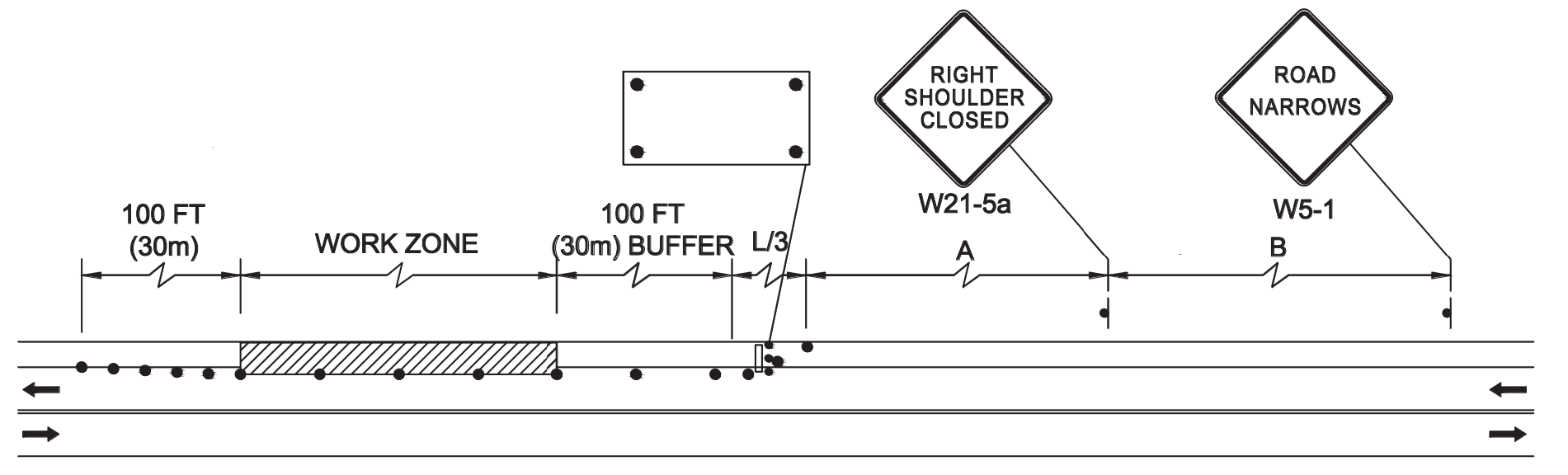
SHARED USE PATH CENTERLINE



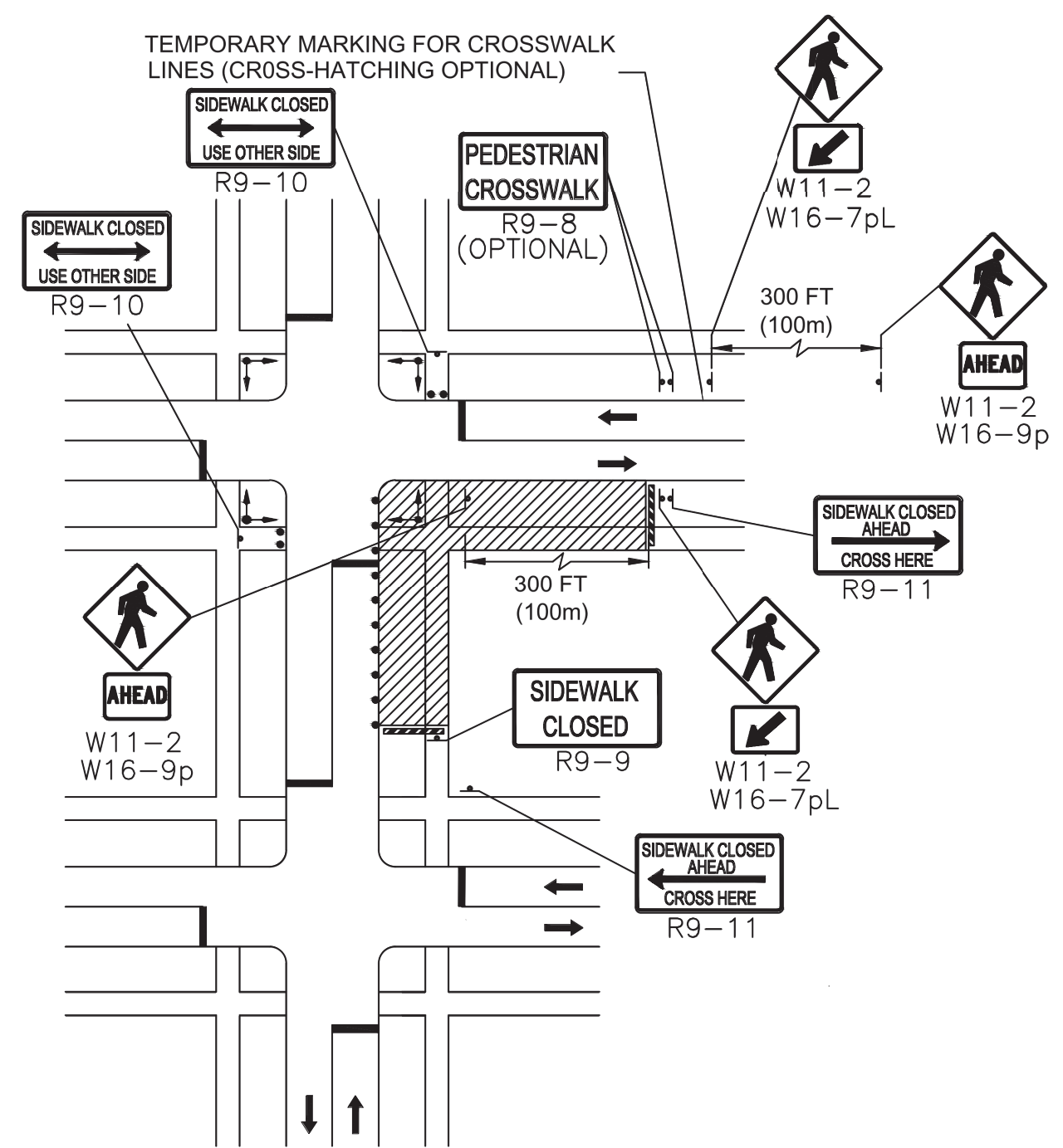
NOTE:  
1. PROPOSED SHARED USE PATH CENTERLINE ELEVATION GENERALLY FOLLOWS THE ROADWAY GUTTER LINE ELEVATION WITH A VERTICAL OFFSET BASED ON THE VERTICAL CURBING AND ADJACENT CROSS SLOPES.



TWO LANE ROAD WITH ONE LANE CLOSED  
ALTERNATING TRAFFIC  
NOT TO SCALE



TWO LANE ROAD WITH SHOULDER CLOSED  
NOT TO SCALE



NOTE:  
FOR LONG-TERM STATIONARY WORK, THE DOUBLE YELLOW CENTERLINE AND/OR LANE LINES SHOULD BE REMOVED BETWEEN THE CROSSWALK LINES.

PEDESTRIAN DETOUR  
NOT TO SCALE

**NOTES:**

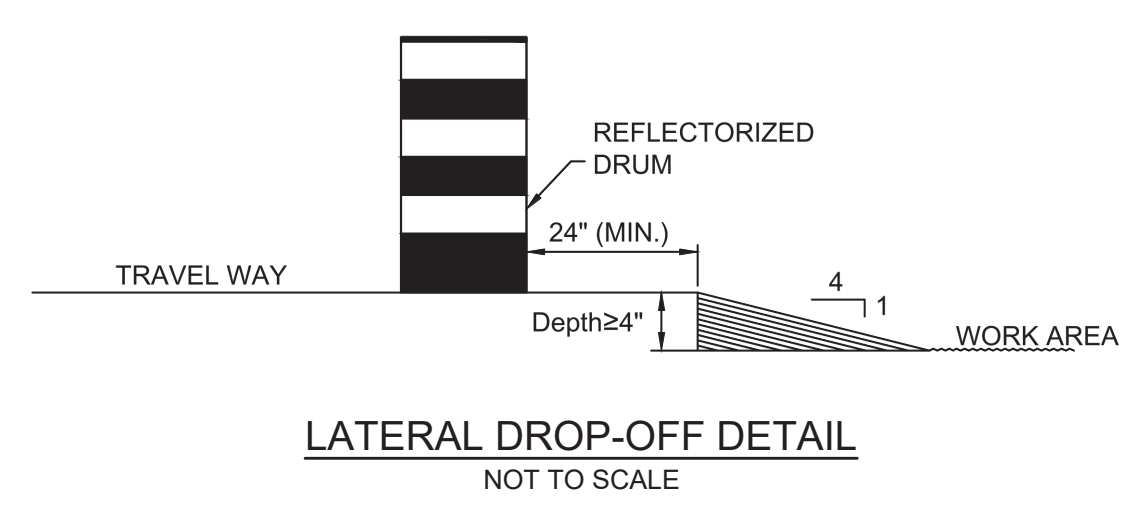
- ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
- ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
- THE FIRST FIVE PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.
- THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

**LEGEND:**

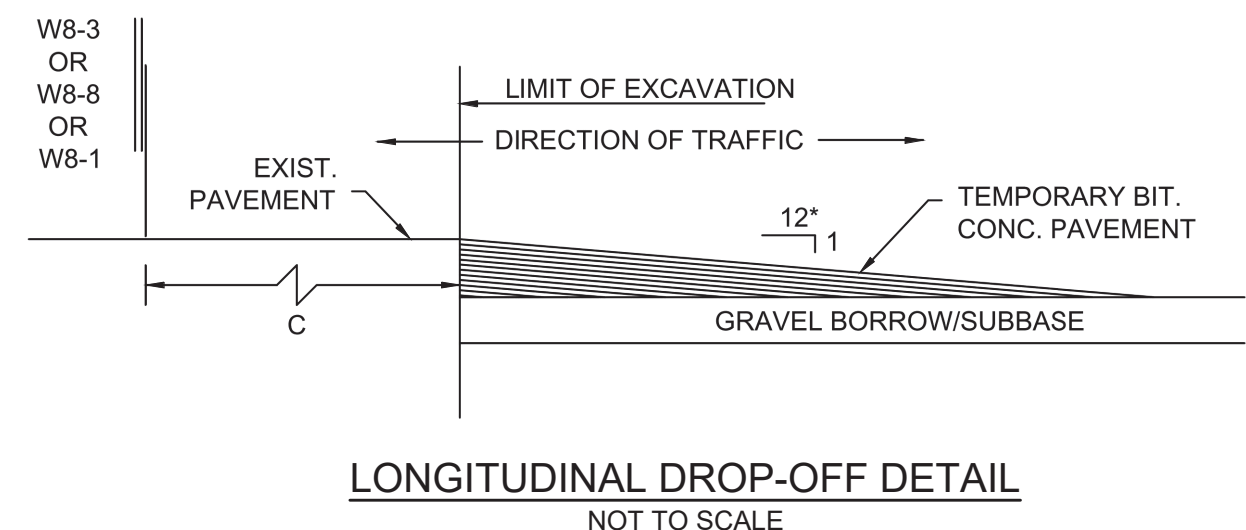
- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- WORK ZONE
- WORK VEHICLE
- P/F POLICE/FLAGGER DETAIL
- DIRECTION OF TRAFFIC
- TRUCK MOUNTED ATTENUATOR
- TYPE III BARRICADE
- IMPACT ATTENUATOR
- TRAFFIC OR PEDESTRIAN SIGNAL
- CHANGEABLE MESSAGE SIGN
- MEDIAN BARRIER
- SIGN
- ARROW BOARD
- MEDIAN BARRIER WITH WARNING LIGHTS

**CONSTRUCTION SIGN SUMMARY**

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK-GROUND	LEGEND	BORDER		
R2-10a	48"	36"	WORK ZONE SPEEDING FINES DOUBLED	SEE MASSDOT STANDARDS			TBD	SEE MASSDOT STANDARDS				60.00
R2-10e	30"	30"	END ROAD WORK DOUBLE FINES END									25.00
W20-1	36"	36"	ROAD WORK AHEAD	SEE MUTCD STANDARDS				ORANGE	BLACK	BLACK		63.00
W20-5L	36"	36"	LEFT LANE CLOSED AHEAD					ORANGE	BLACK	BLACK		18.00
W20-5R	36"	36"	RIGHT LANE CLOSED AHEAD					ORANGE	BLACK	BLACK		18.00
W21-5a	36"	36"	RIGHT SHOULDER CLOSED					ORANGE	BLACK	BLACK		18.00
W4-2L	36"	36"						ORANGE	BLACK	BLACK		18.00
W4-2R	36"	36"						ORANGE	BLACK	BLACK		18.00
W5-1	36"	36"	ROAD NARROWS					ORANGE	BLACK	BLACK		18.00



LATERAL DROP-OFF DETAIL  
NOT TO SCALE



LONGITUDINAL DROP-OFF DETAIL  
NOT TO SCALE

**SUGGESTED WORK ZONE WARNING SIGN SPACING**

ROAD TYPE	DISTANCE BETWEEN SIGNS **		
	A	B	C
LOCAL OR LOW VOLUME ROADWAYS*	350 (100)	350 (100)	350 (100)
MOST OTHER ROADWAYS*	500 (150)	500 (150)	500 (150)
FREEWAYS AND EXPRESSWAYS*	1,000 (300)	1,500 (450)	2,640 (800)

\* ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLANNING.

\*\* DISTANCES ARE SHOWN IN FEET (METERS). THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (i.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES AS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

R2-10a, R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

Based on: Table 6C-1 MUTCD LATEST EDITION

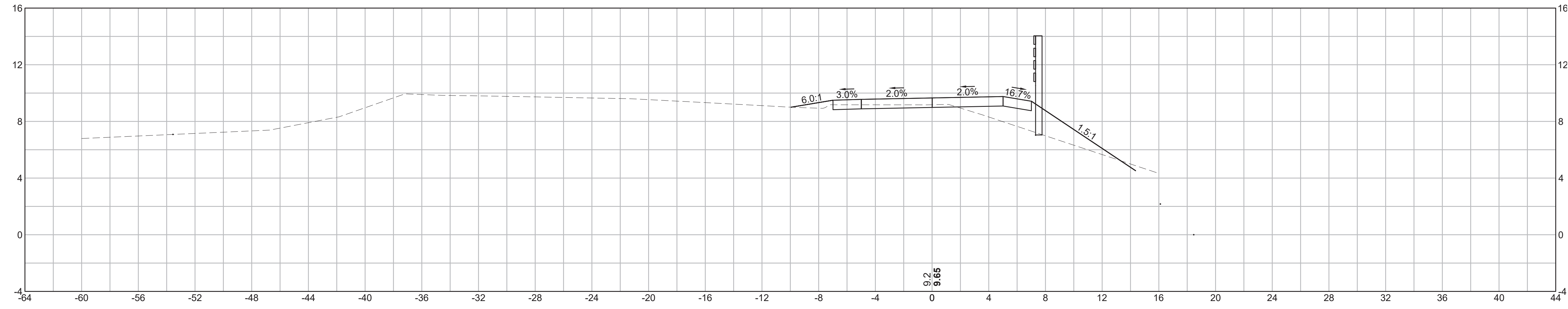
TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	44	48

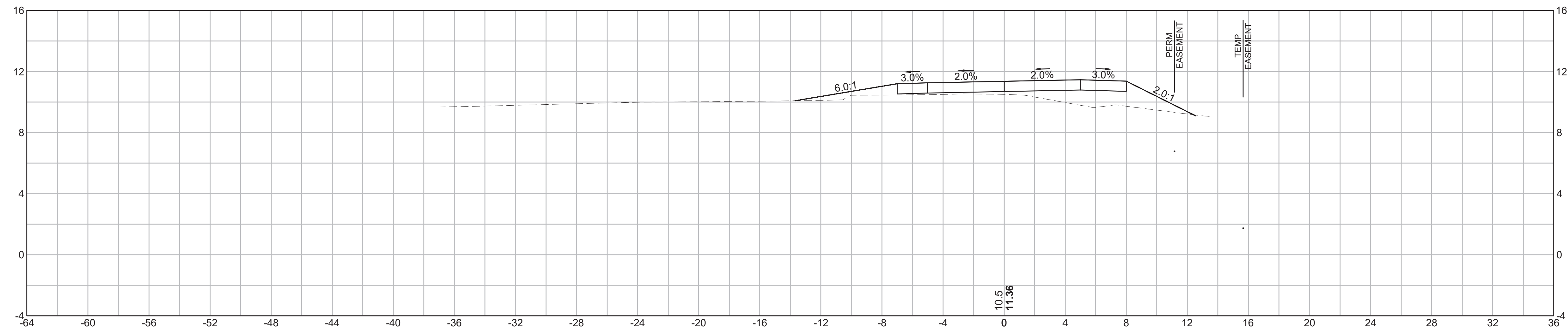
PROJECT FILE NO. 607825

CRITICAL CROSS SECTIONS  
1 OF 5

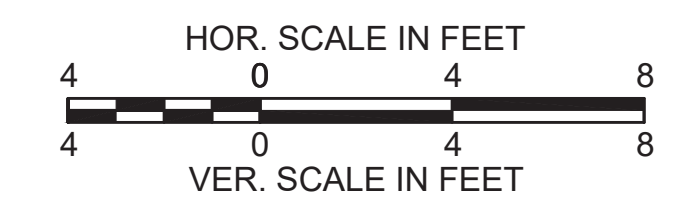
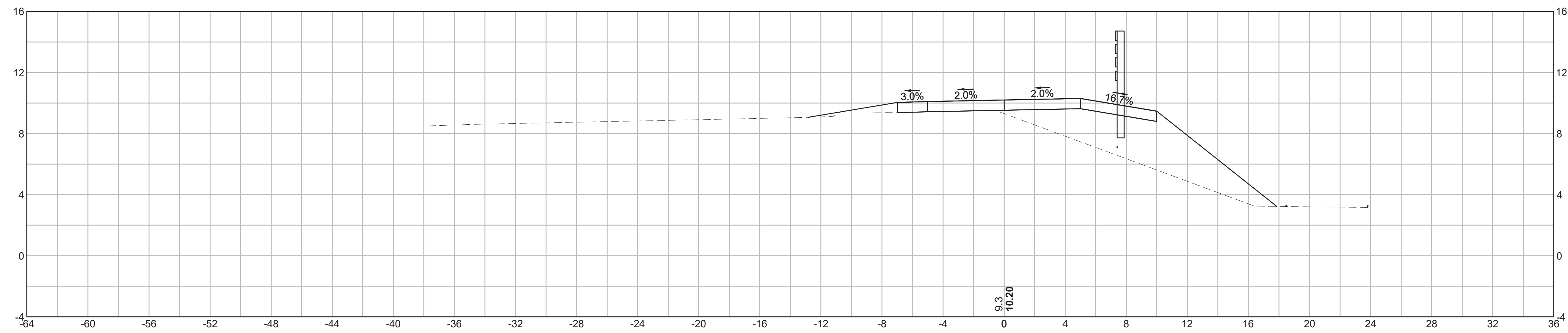
11+99.62



4+99.50



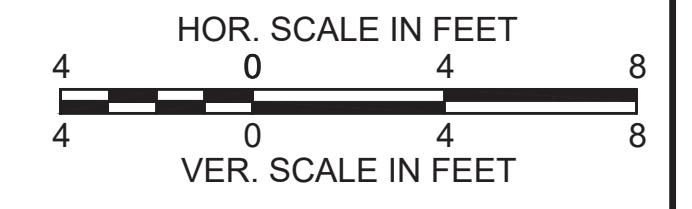
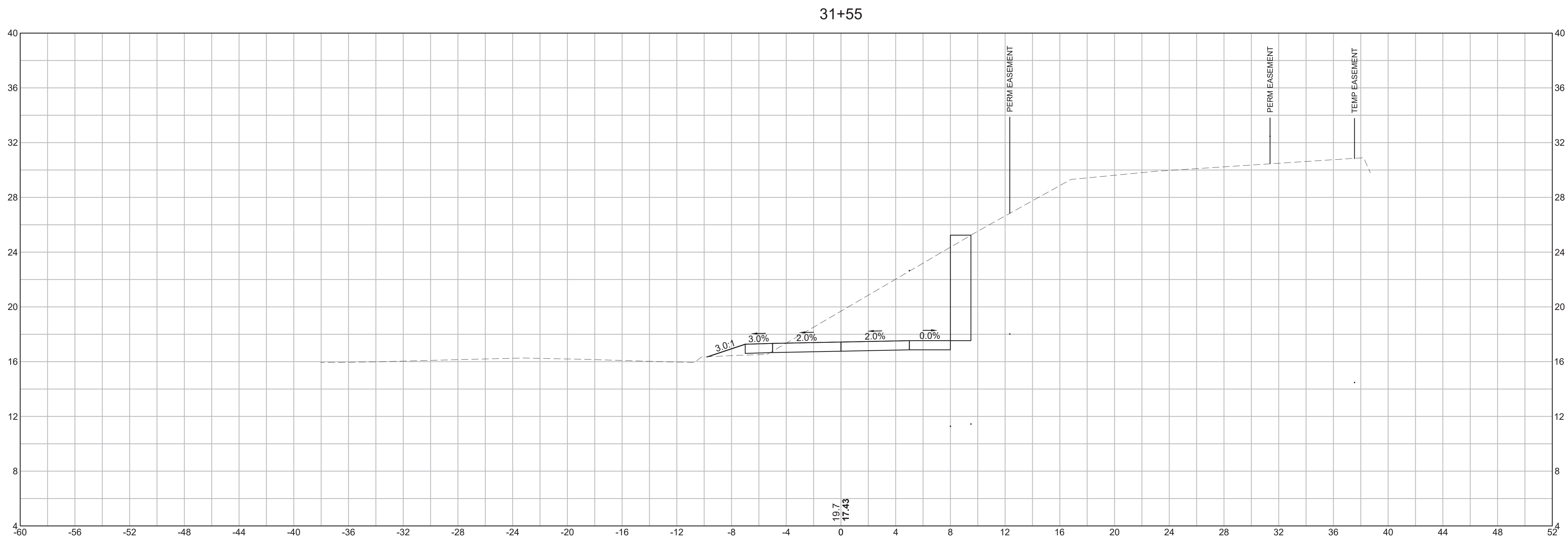
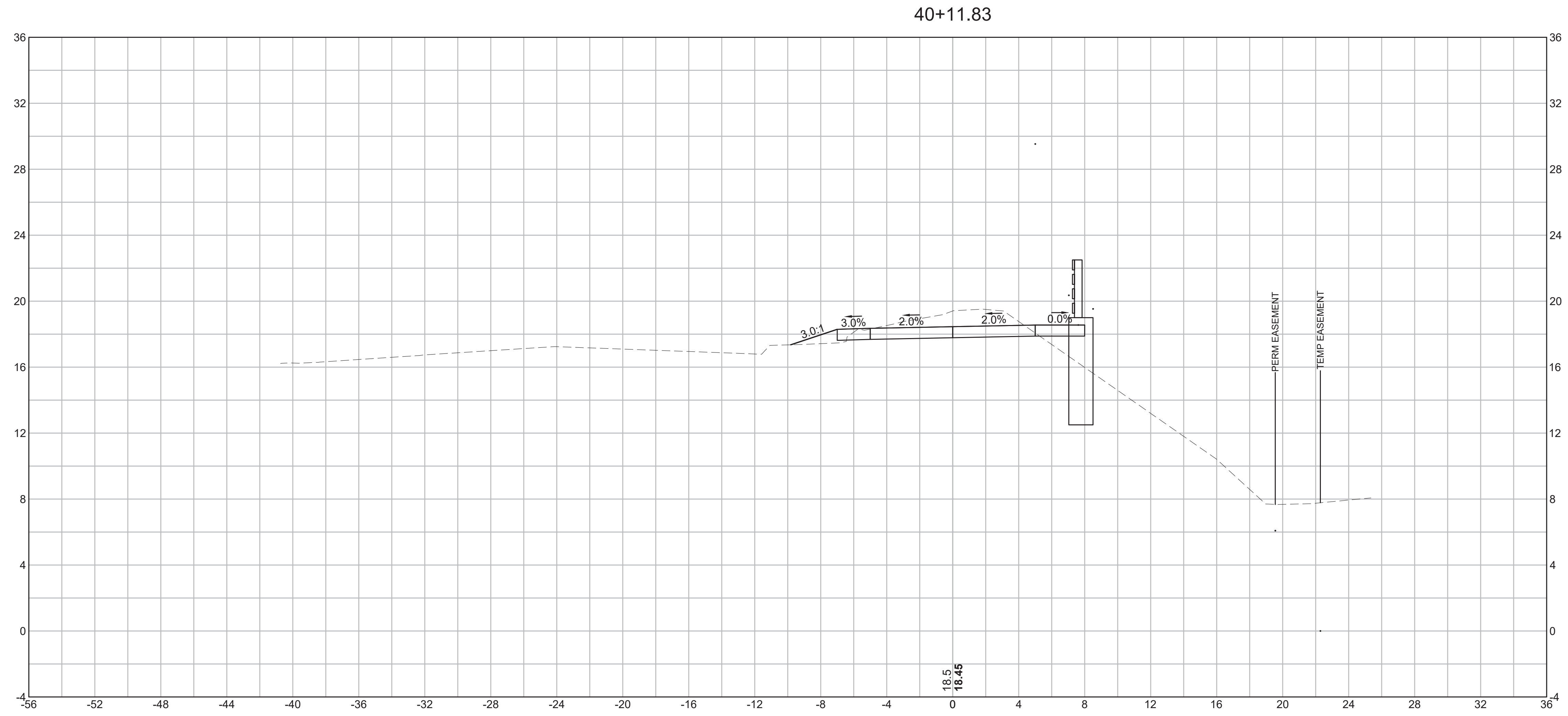
2+25



TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	45	48
PROJECT FILE NO.		607825	

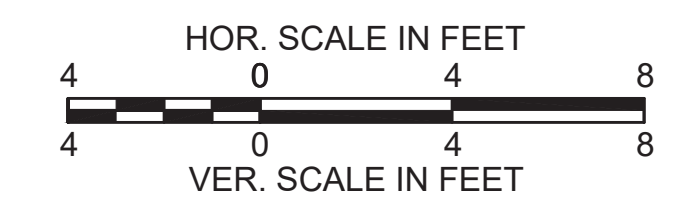
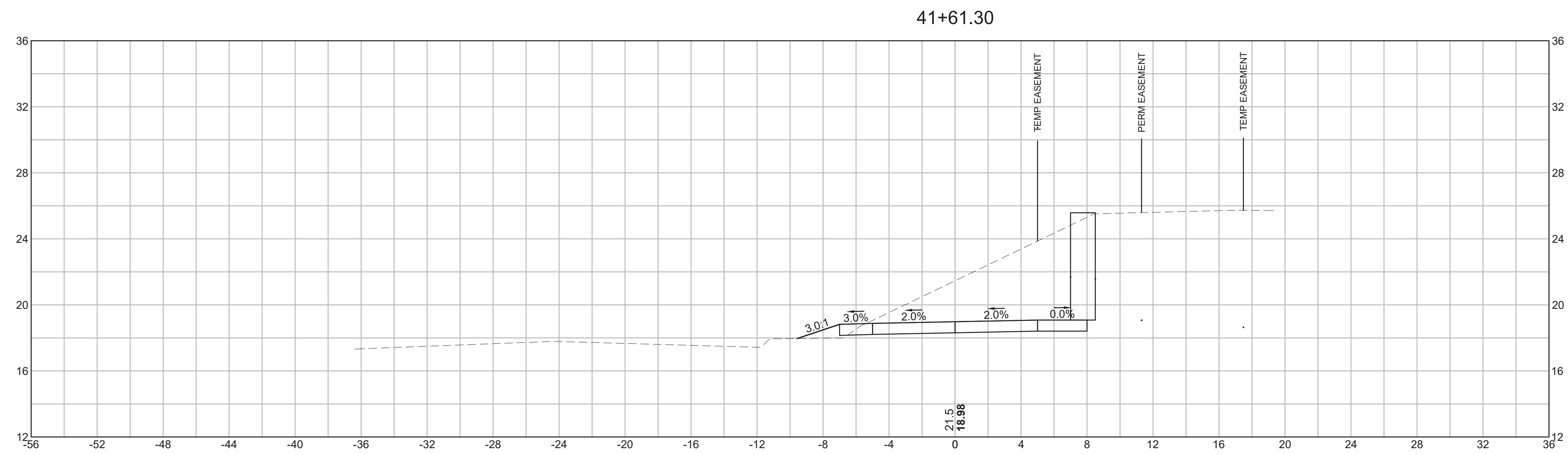
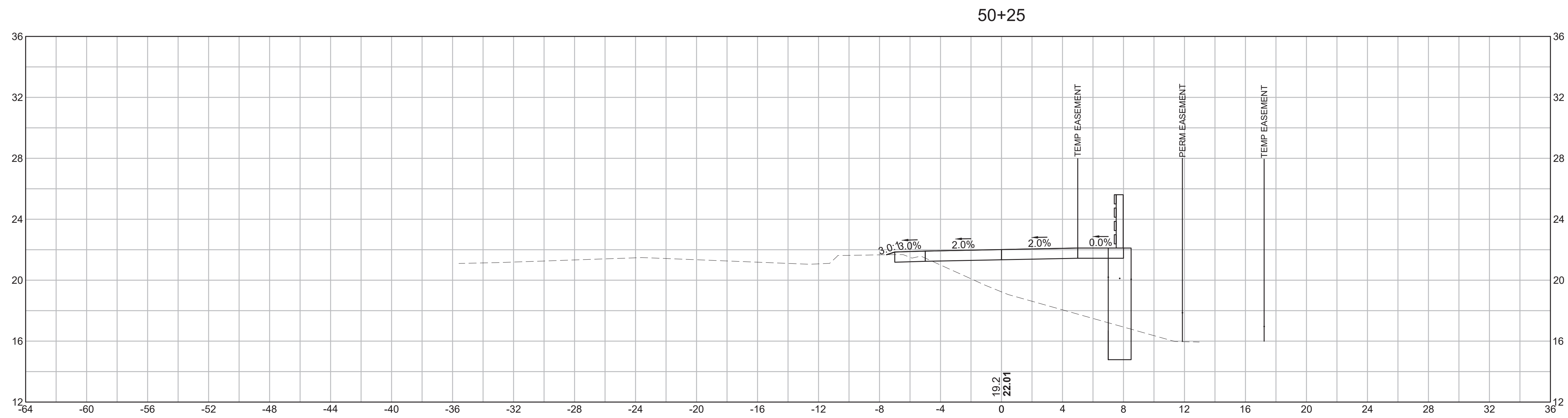
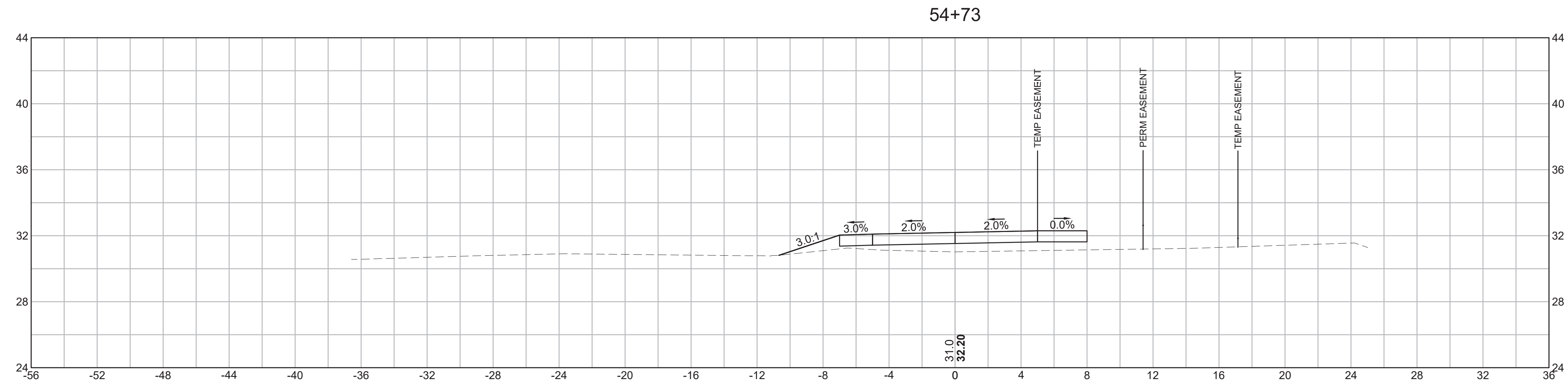
CRITICAL CROSS SECTIONS  
2 OF 5



TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	46	48
PROJECT FILE NO.		607825	

CRITICAL CROSS SECTIONS  
3 OF 5

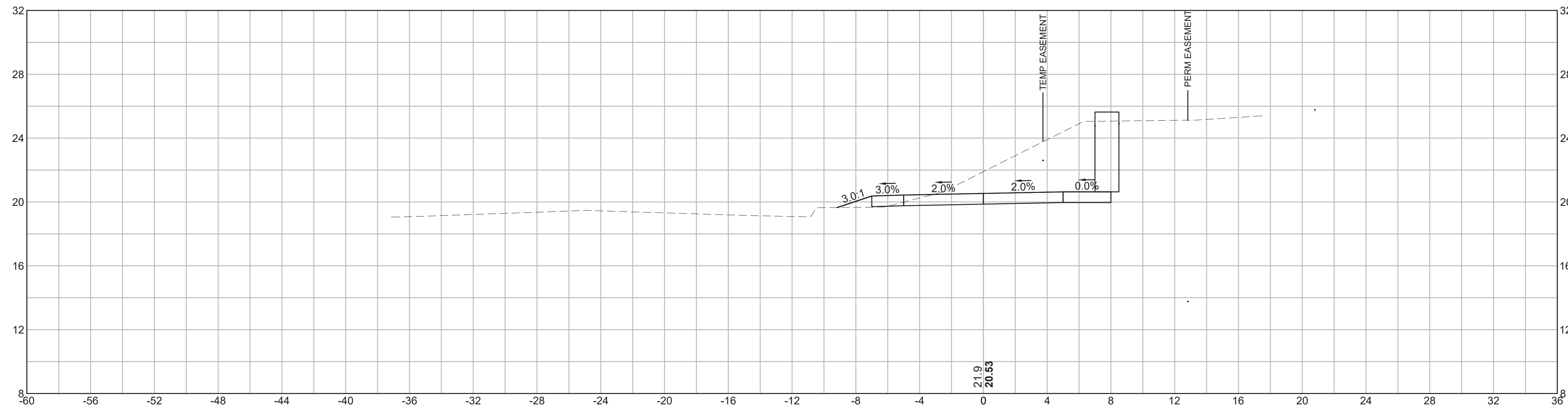


TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

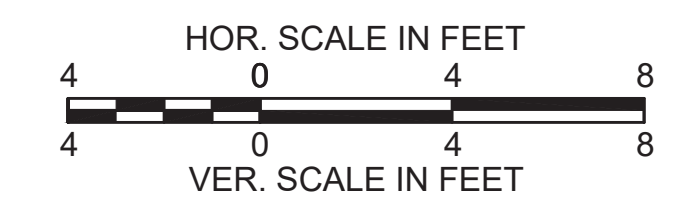
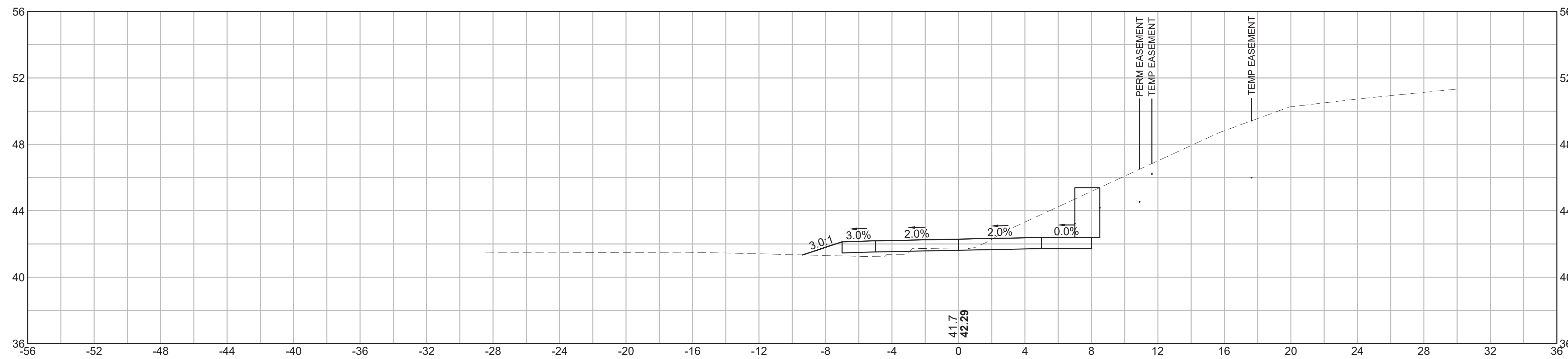
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	47	48
PROJECT FILE NO.		607825	

CRITICAL CROSS SECTIONS  
4 OF 5

79+00



66+00

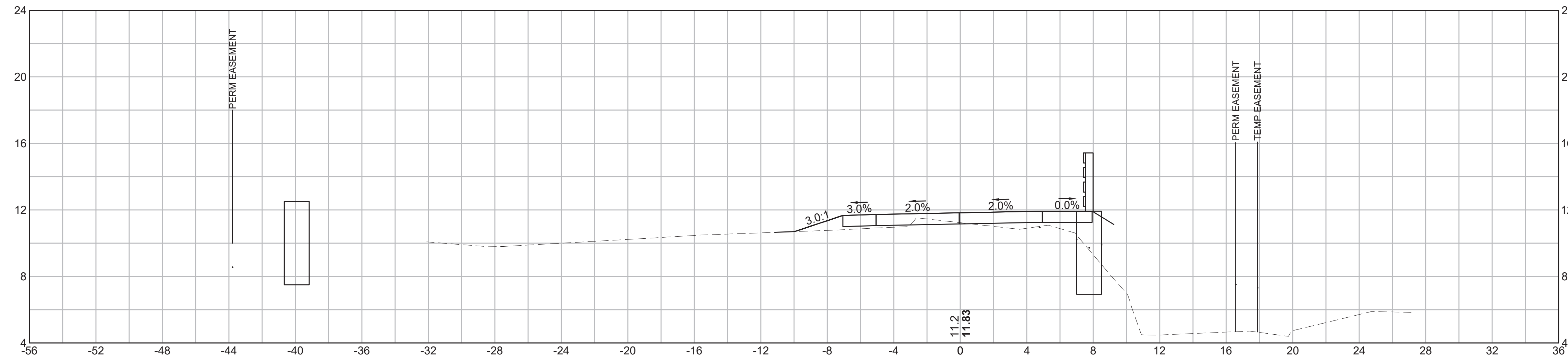


TOWN OF WAREHAM  
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	48	48
PROJECT FILE NO.		607825	

CRITICAL CROSS SECTIONS  
5 OF 5

89+37.41



88+99.47

