

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	93
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.

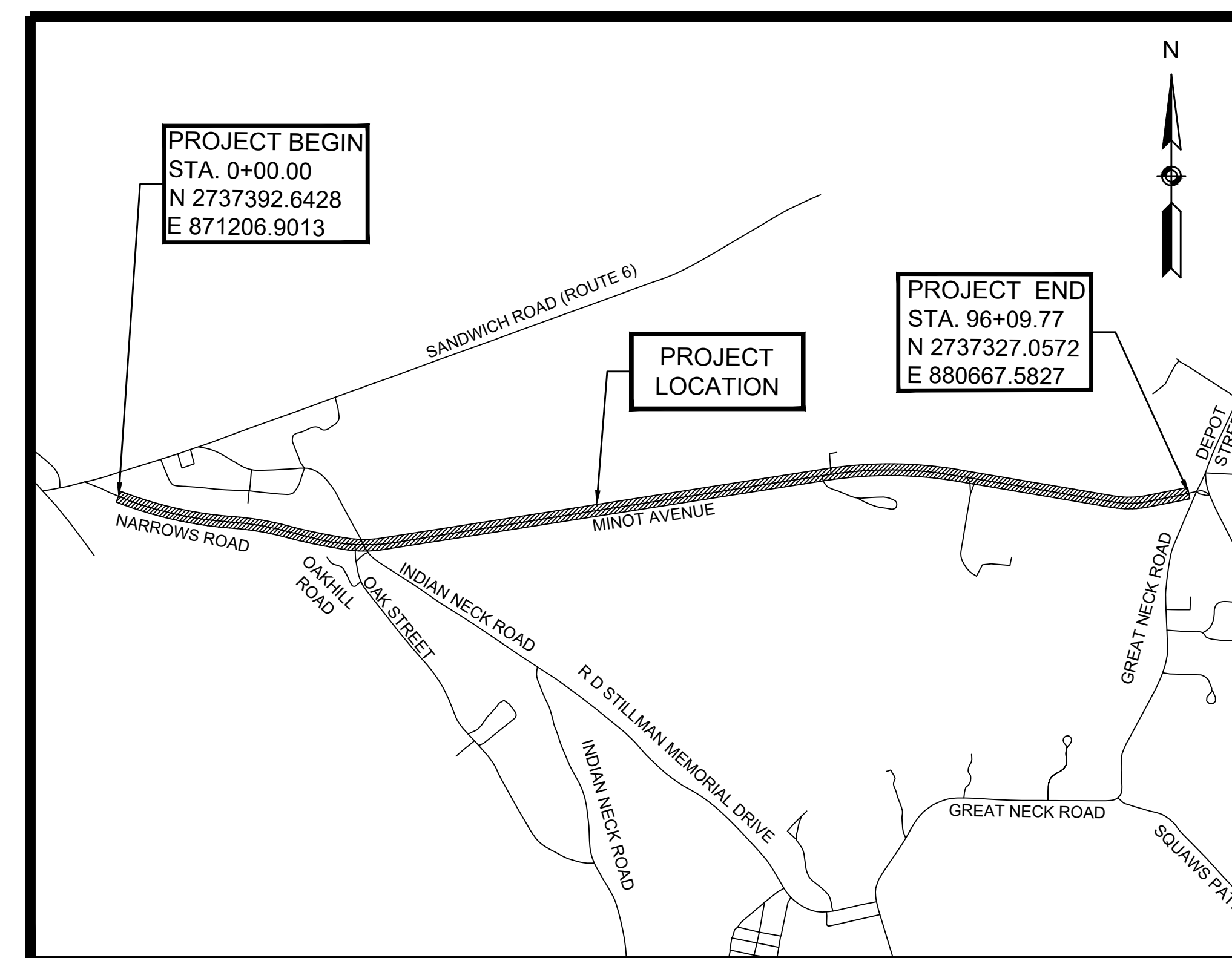
DUCE - Update to 2021.

THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED SEPTEMBER 30, 2020, 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% RESUBMITTAL

INDEX

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What are the existing and design year ADT?

DESIGN SPEED	NARROWS ROAD	MINOT AVENUE	SHARED USE PATH
ADT	40 MPH	40 MPH	20 MPH
ADT (2019)	9,139	5,086	
K	8,543	5,239	
D	10%	11%	
T (PEAK HOUR)	63% EB	54% EB	
T (AVERAGE DAY)	9.0%	10%	
DHV	8.1%	8.9%	
DDHV	778	453	
FUNCTIONAL CLASSIFICATION	471	253	
	URBAN MINOR ARTERIAL	URBAN MINOR ARTERIAL	

DESIGN DESIGNATION

Please recalculate DHV and DDHV with the peak hour volume for the design year.
DHV= ADT(design year) * K,
DDHV= ADT(design year)*K* D

DATE	DESCRIPTION	REV #
11-20-2020	25% RESUBMISSION	1
02-14-2020	25% SUBMISSION	0

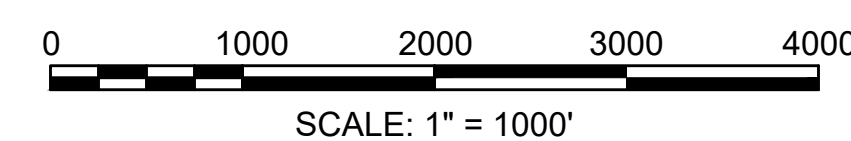
Highway Design ADA:

All comments with or without examples are not intended to be inclusive but apply to the entire project and the entire project should be reviewed to comply with each comment. In addition, the entire project should also be reviewed for other AAB/ADA compliancy issues not outlined herein.

The next submission should include completed schedules for both driveway aprons with continuous sidewalk and wheelchair ramps, if proposed, which are cross-referenced with the plans. The schedules should include the referenced roadway baselines, station and offset to the center of the opening at the gutter line, gutter profile slope, opening width at the gutter, left transition length, right transition length, depth from the gutter to the back of the sidewalk, and the depth of the level landing or width of path of travel across driveways.

The wheelchair ramps schedule plan should include a notation, on the sketches, that detectable warning panels are required on all the proposed wheelchair ramps and are to be installed in accordance with MassDOT Construction Standards.

Please provide + or - signs for the roadway gutter slope direction in the curb ramp schedules.



LENGTH OF PROJECT = 9351.07 FEET = 1.77 MILES

NOVEMBER 20, 2020

PLAN PREPARED BY:



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



RECOMMENDED FOR APPROVAL

CHIEF ENGINEER DATE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

APPROVED

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
		SEDIMENT CONTROL BARRIER
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		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

Please specify the width of the pavement markings. Please note that The 6" norm

Please specify length and gap of all dotted white

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
CB CI	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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MA	-	02	93

PROJECT FILE NO. 607825

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

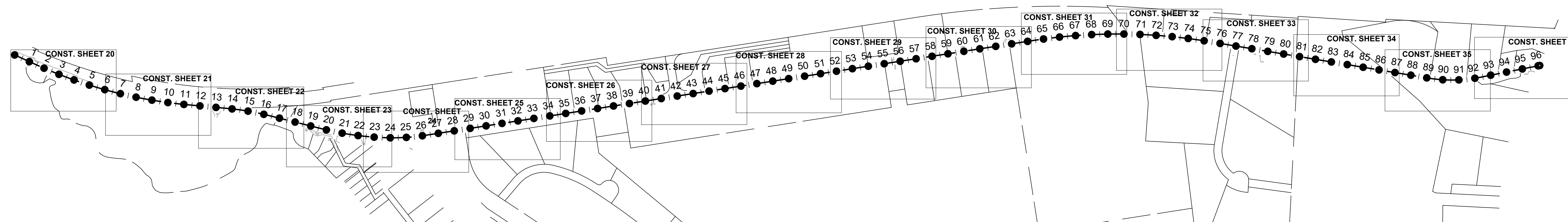
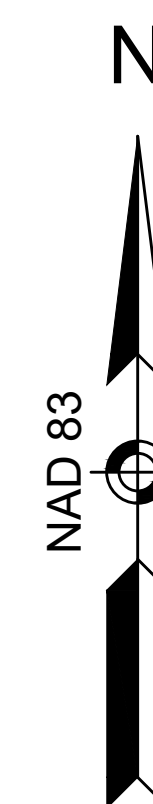
CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY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

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

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MA	-	03	93
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KEY PLAN

1. 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 NOVEMBER 16, 2020 .
2. COORDINATES ARE PROVIDED IN US SURVEY FEET, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, MAINLAND ZONE (FIPS ZONE 2001). ELEVATIONS ARE PROVIDED IN US SURVEY FEET, REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. 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.
4. 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.
5. 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.
6. THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-DIG-SAFE AT LEAST 72 HOURS PRIOR TO COMMENCING WORK ON THE PROJECT.
7. 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.
8. NO EXISTING DRAINAGE SYSTEMS SHALL BE ABANDONED, PLUGGED OR REMOVED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL, SAFETY CODES AND LEGAL REQUIREMENTS, IN THE CONSTRUCTION OF IMPROVEMENTS.
10. 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.
11. 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.
12. ALL MATERIALS TO BE REMOVED AND DISCARDED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
13. 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.
14. 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.
15. 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.
16. 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.
17. ALL CATCH BASINS, UNLESS NOTED OTHERWISE, SHALL HAVE A 4' DEEP SUMP PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COMPENSATION.
18. 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.
19. ALL RESET CURB/EDGING IS TO BE USED CONTIGUOUSLY. ALL NEW CURB/EDGING WILL BE INSTALLED CONTIGUOUSLY. ALTERNATING NEW AND OLD MATERIALS WILL NOT BE ACCEPTABLE.



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

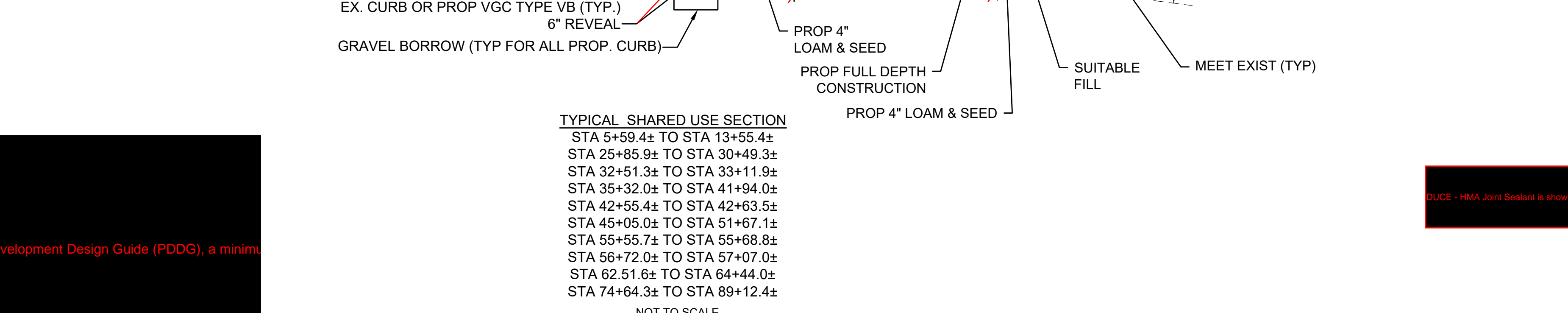
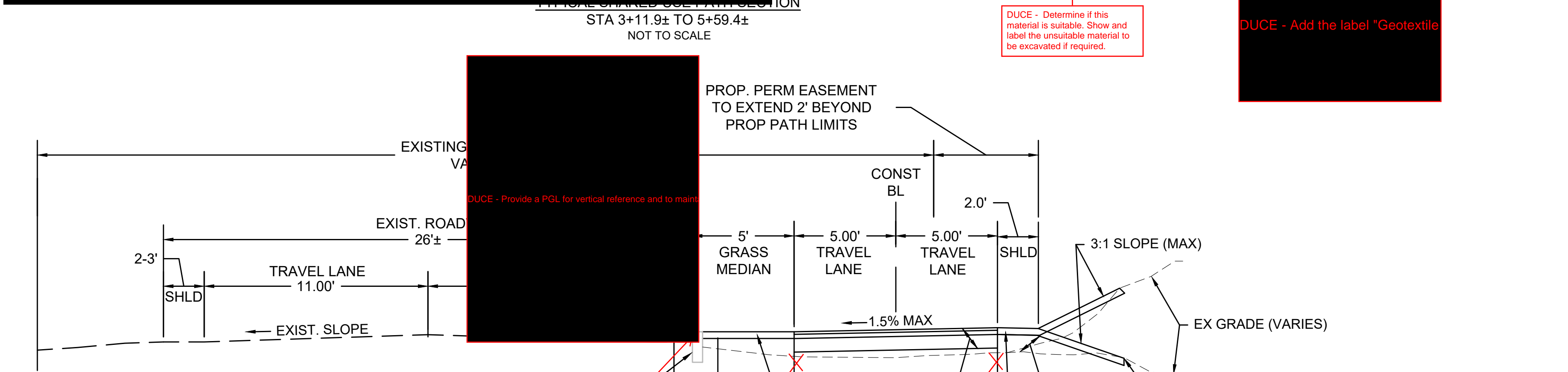
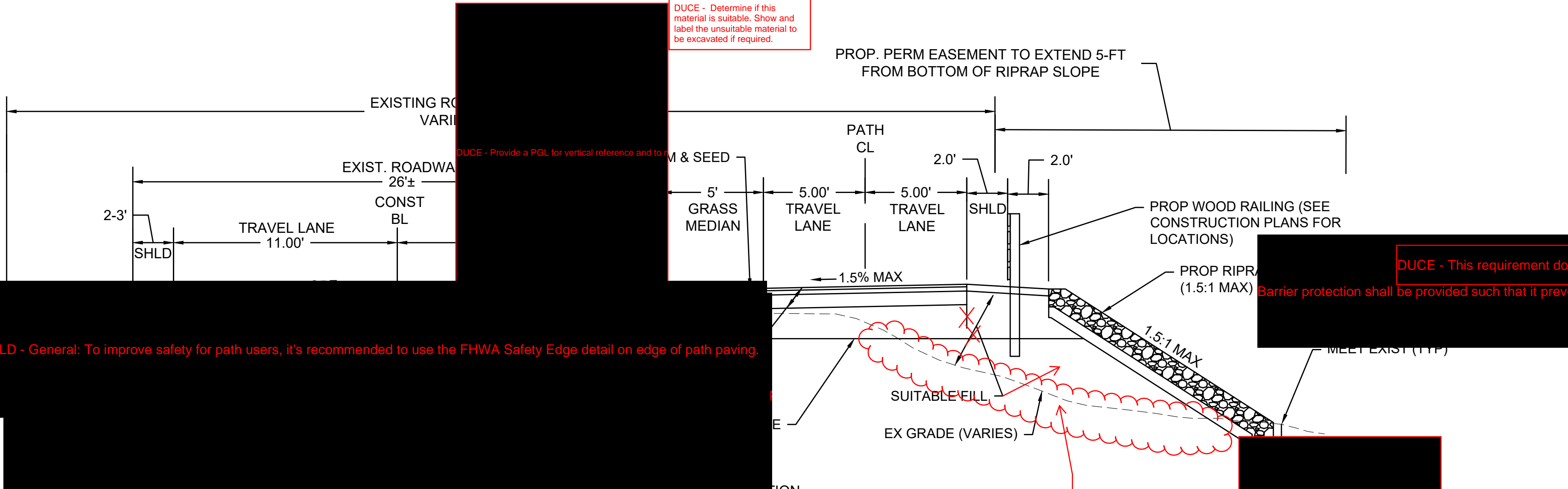
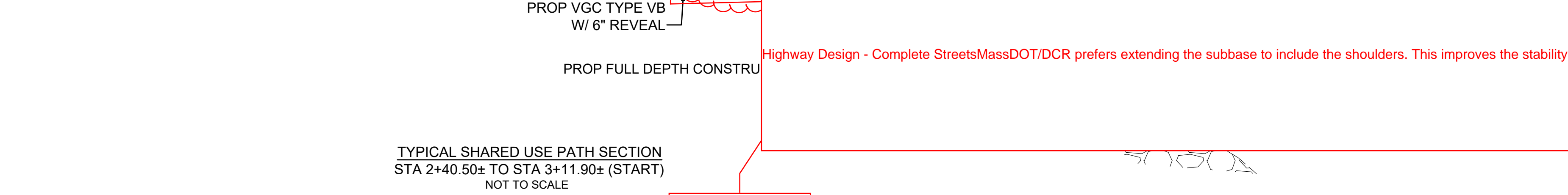
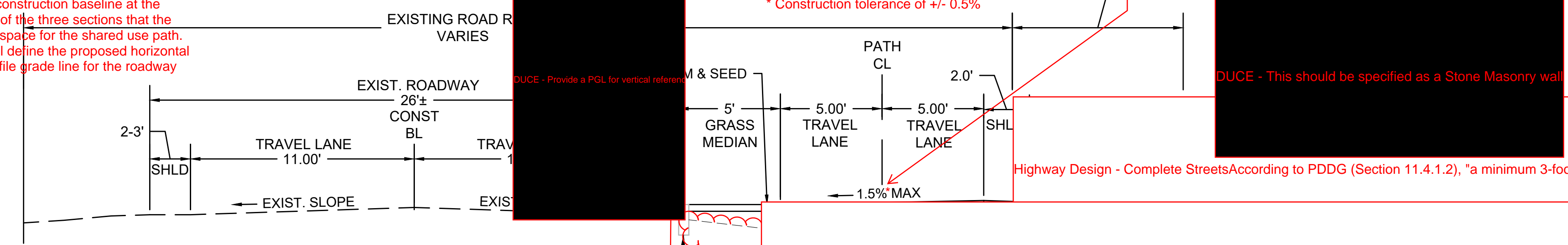
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TYPICAL SECTIONS

Projects - The typical sections and cross sections are now labeled using the roadway baseline stationing; with the profile at the shared use path baseline, it is difficult to cross reference elevations on the sections with the profile. For consistency, revert to using the shared use path baseline stationing for the typical sections, profile and cross sections.

Projects - Include a proposed construction baseline at the DYCL of the roadway for each of the three sections that the roadway is realigned to create space for the shared use path. The Construction Baselines will define the proposed horizontal geometry and serve as the profile grade line for the roadway reconstruction.

Please revise any sidewalk (or, any pedestrian access surfaces) to a 1.5% cross slope. Per MassDOT Engineering Directive E-12-005, "All sidewalks and walks, regardless of material, shall be designed and constructed to a cross slope of 1.5% with a construction tolerance of +/- 0.5% allowed. Typ.



- TYPICAL SHARED USE SECTION**
- STA 5+59.4± TO STA 13+55.4±
 - STA 25+85.9± TO STA 30+49.3±
 - STA 32+51.3± TO STA 33+11.9±
 - STA 35+32.0± TO STA 41+94.0±
 - STA 42+55.4± TO STA 42+63.5±
 - STA 45+05.0± TO STA 51+67.1±
 - STA 55+55.7± TO STA 55+68.8±
 - STA 56+72.0± TO STA 57+07.0±
 - STA 62.51.6± TO STA 64+44.0±
 - STA 74+64.3± TO STA 89+12.4±
- NOT TO SCALE

Per MassDOT's Project Development Design Guide (PDDG), a minimum 3-foot clearance should be provided for the path.

Highway Design - Complete Streets According to PDDG (Section 11.4.1.2), "a minimum 3-foot clearance should be provided for the path."

Highway Design - Complete Streets MassDOT/DCR prefers extending the subbase to include the shoulders. This improves the stability and

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) VARIABLE DEPTH STANDARD MILLING AT CROWN RELOCATION

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 BASE COURSE - 37.5 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 HMA DRIVEWAY/APRON AND SHARED USE PATH PAVEMENT

SURFACE: 1.50" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER

BASE: 2.50" SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)

SUBBASE: 8" GRAVEL BORROW, TYPE b

PROPOSED GRAVEL DRIVEWAYS:

SURFACE: 8" GRAVEL BORROW, TYPE b

*IN AREAS WHERE THE CONTRACT SPECIFIES THE USE OF GRAVEL BORROW FOR SUBBASE AND THE EXISTING MATERIAL, AFTER TESTING, IS FOUND TO COMPLY WITH THE REQUIREMENTS OF M1.03.0: GRAVEL BORROW, THE MATERIAL SHALL REMAIN IN PLACE IF 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.

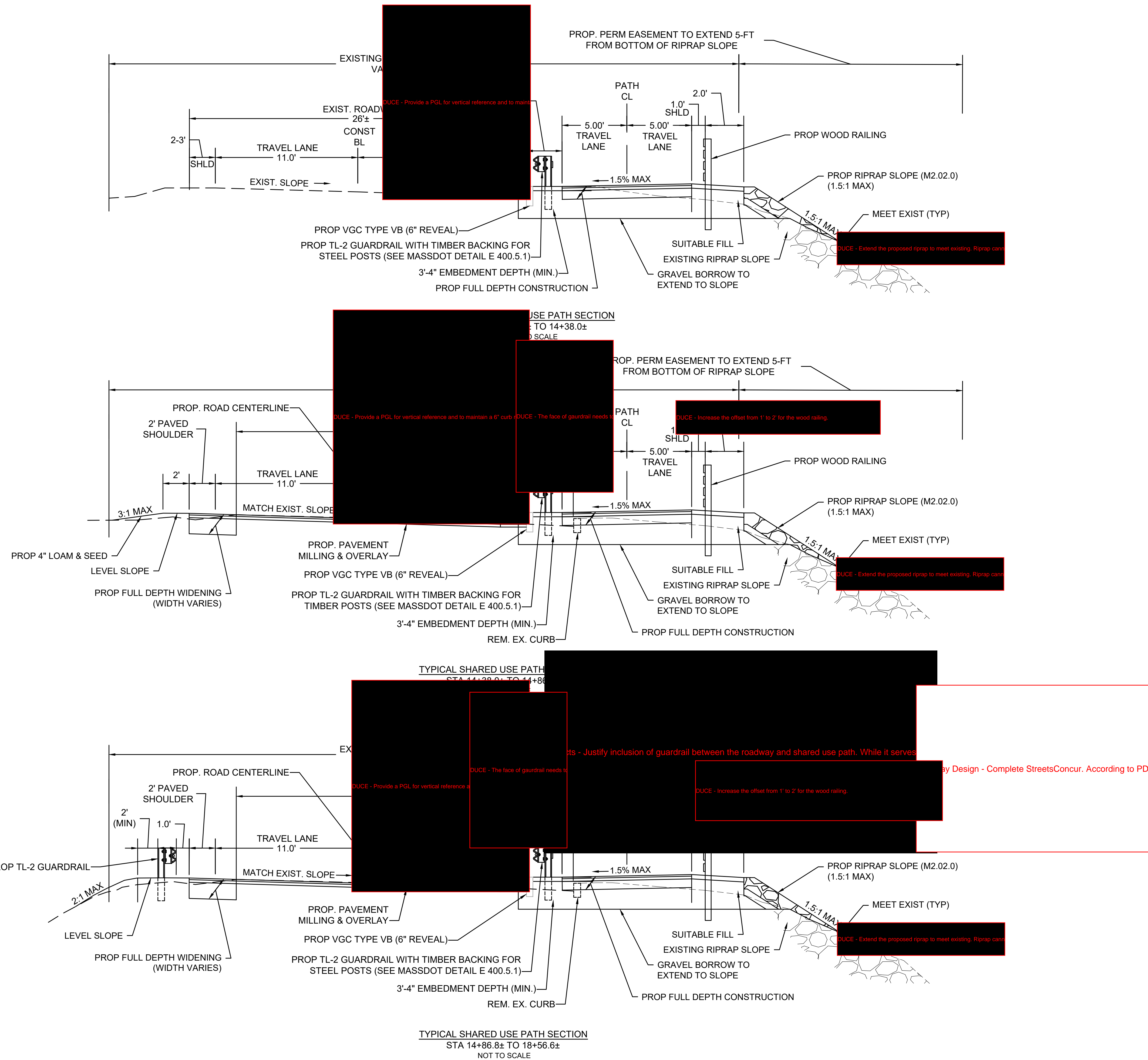
***TACK COAT COVERAGE IS REQUIRED ON THE INTERMEDIATE COURSE, BASE COURSE, AND CEMENT CONCRETE BASE COURSE. TACK COAT APPLICATION RATES FOR SPECIFIC SURFACE CONDITIONS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 450.43(G):

- A.) ON A NEW HMA SURFACE, NOT OPENED TO TRAFFIC, THE EMULSION APPLICATION RATE SHALL EQUAL 0.06 TO 0.08 GALLONS PER SQUARE YARD
- B.) ON AN EXISTING TIGHT SMOOTH PAVEMENT THE EMULSION APPLICATION RATE SHALL EQUAL 0.06 TO 0.08 GALLONS PER SQUARE YARD
- C.) ON A MILLED SURFACE THE EMULSION APPLICATION RATE SHALL EQUAL 0.07 TO 0.09 GALLONS PER SQUARE YARD
- D.) ON CEMENT CONCRETE BASE COURSE THE EMULSION APPLICATION RATE SHALL BE EQUAL TO SPRAY APPLICATION FOR ADJACENT SURFACE
- E.) ON NEW HMA PATCHES THE EMULSION APPLICATION RATE SHALL EQUAL 0.06 TO 0.09 GALLONS PER SQUARE YARD

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	05	93
PROJECT FILE NO.		607825	

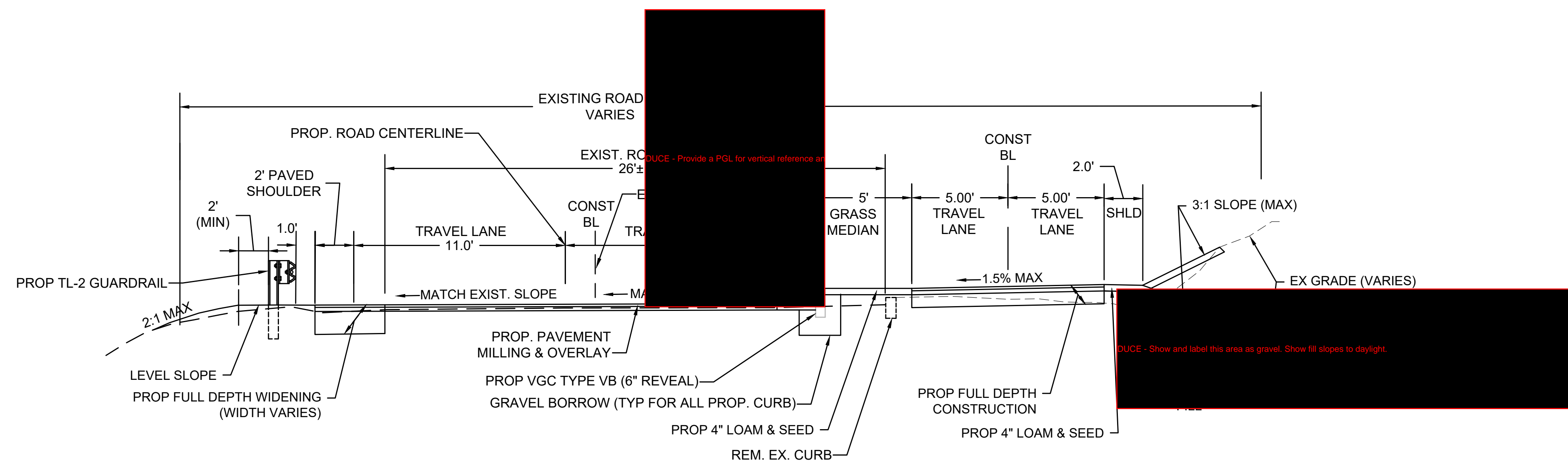
TYPICAL SECTIONS



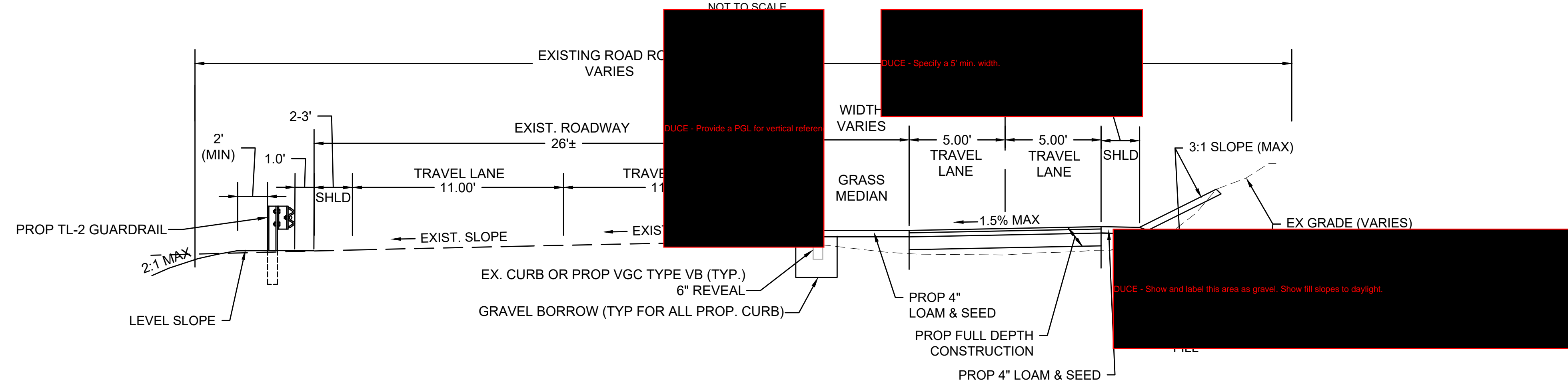
TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	06	93
PROJECT FILE NO.		607825	

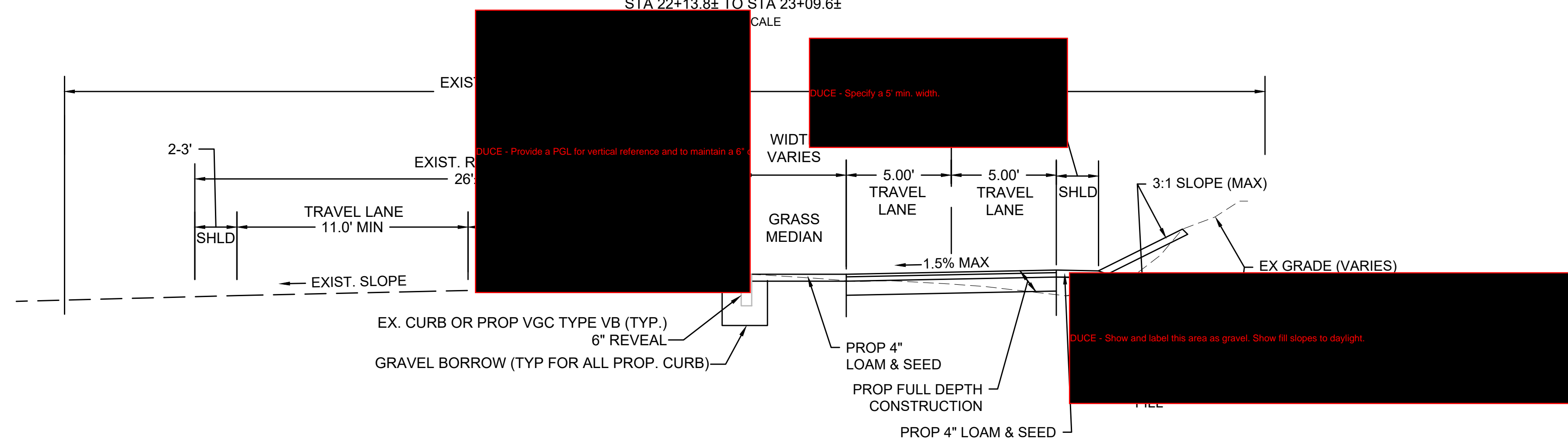
TYPICAL SECTIONS



TYPICAL SHARED USE PATH SECTION
STA 18+56.6± TO 22+13.8±
NOT TO SCALE



TYPICAL SHARED USE SECTION
STA 22+13.8± TO STA 23+09.6±
NOT TO SCALE

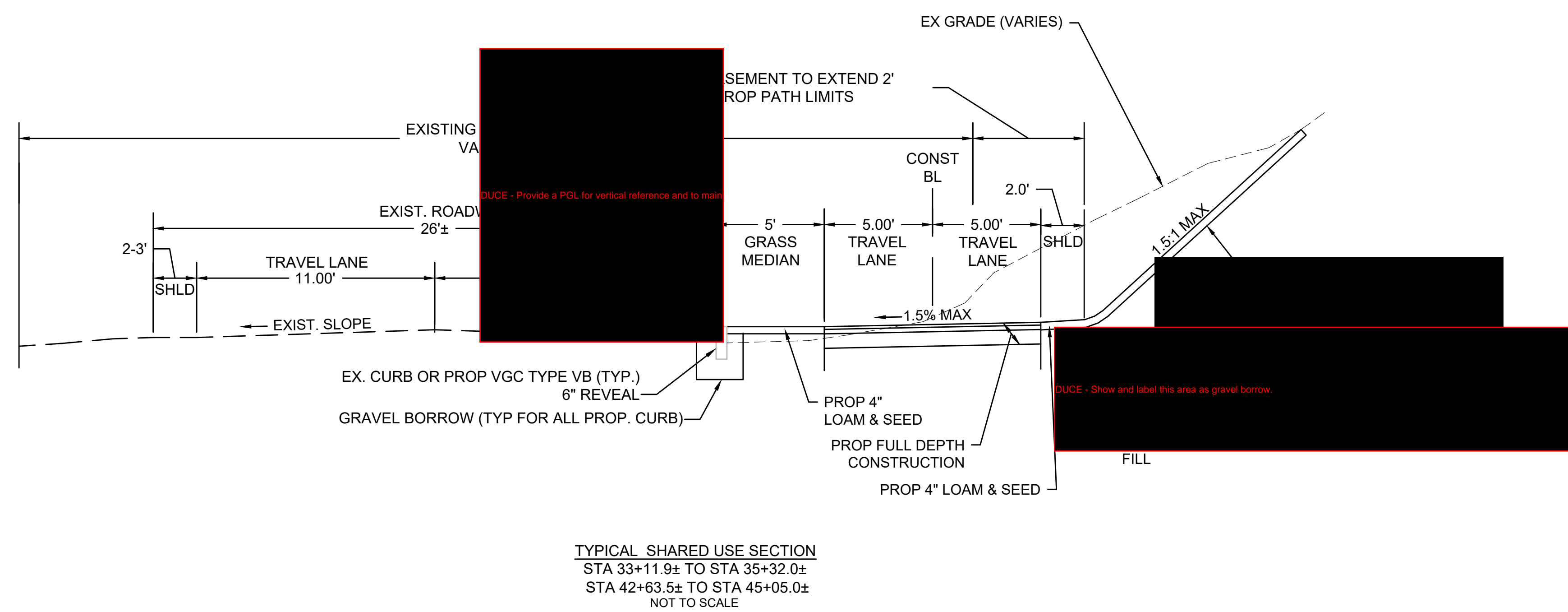
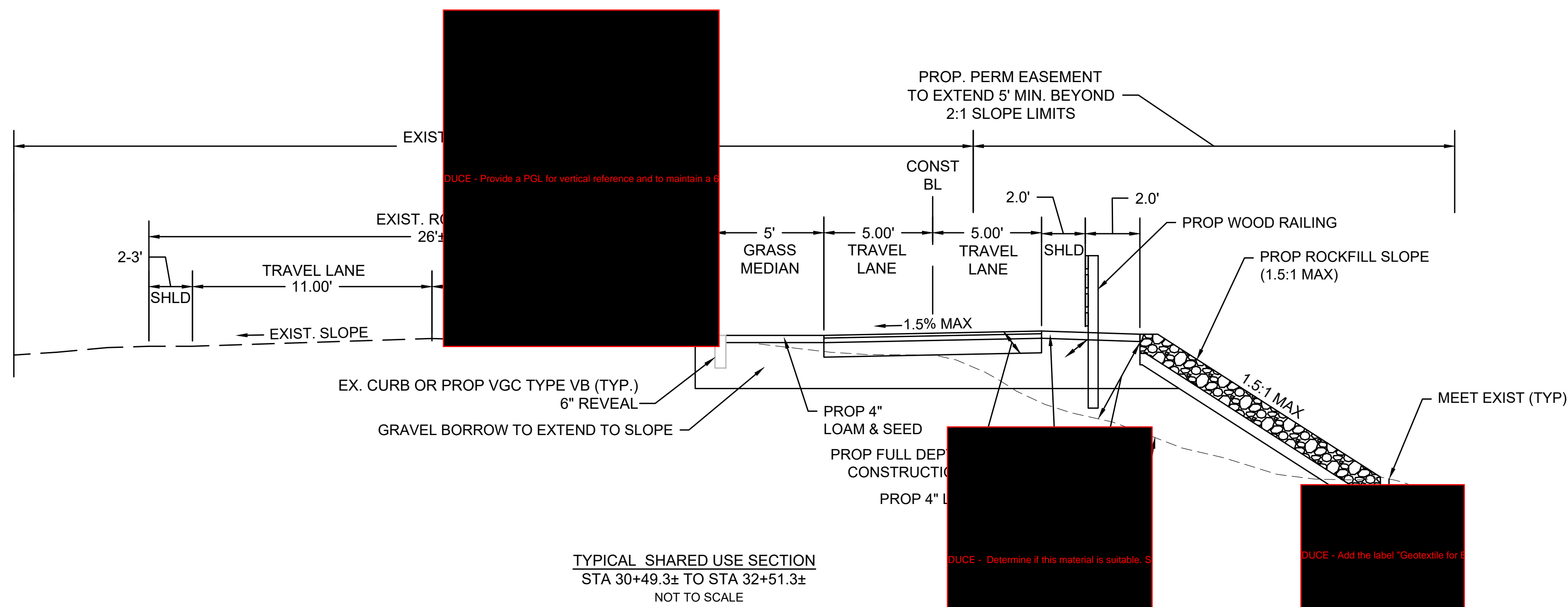


TYPICAL SHARED USE SECTION
STA 23+09.6± TO STA 25+85.9±
NOT TO SCALE

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	07	93
PROJECT FILE NO.		607825	

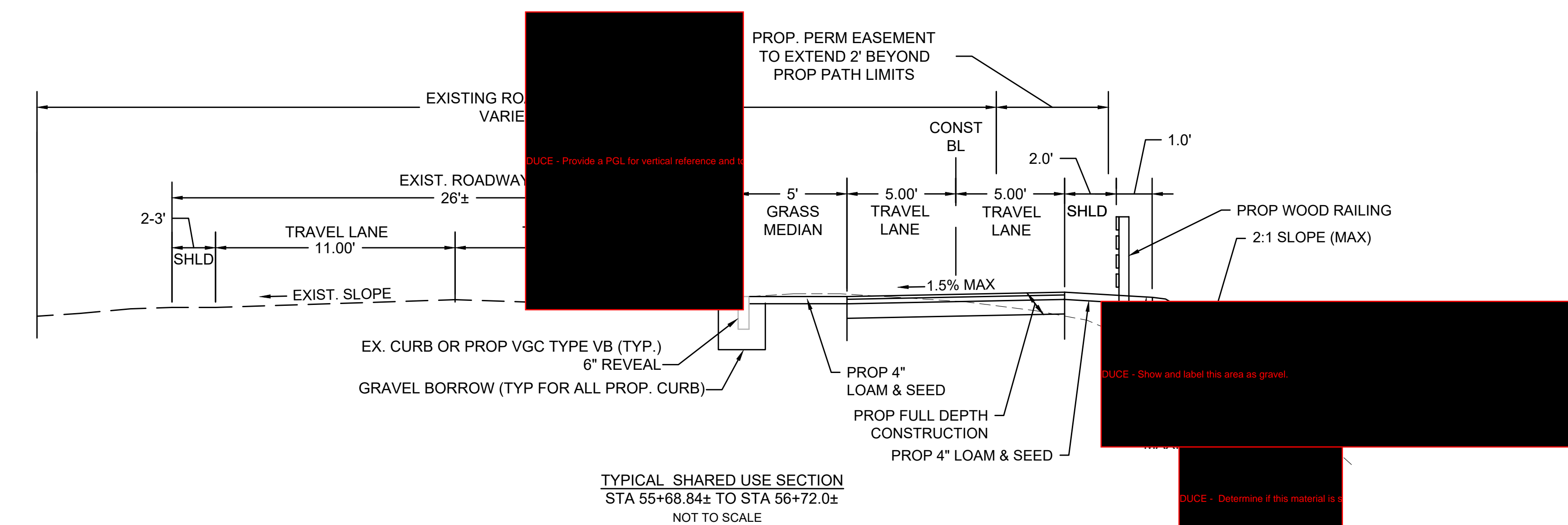
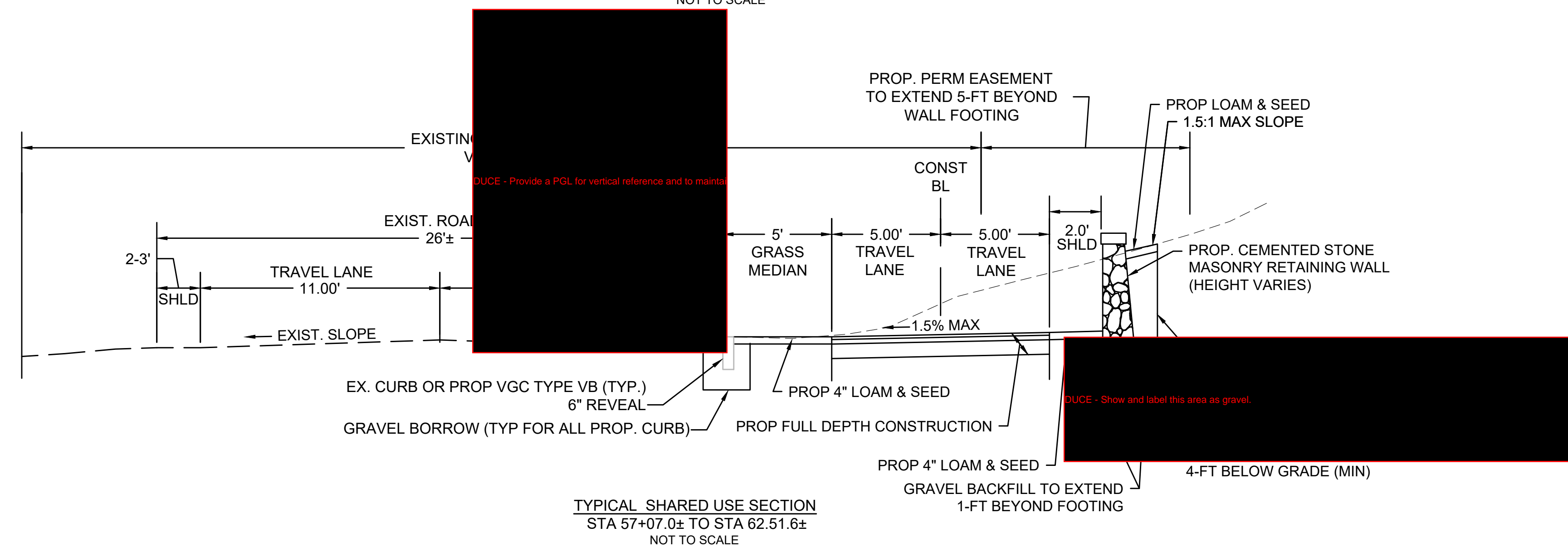
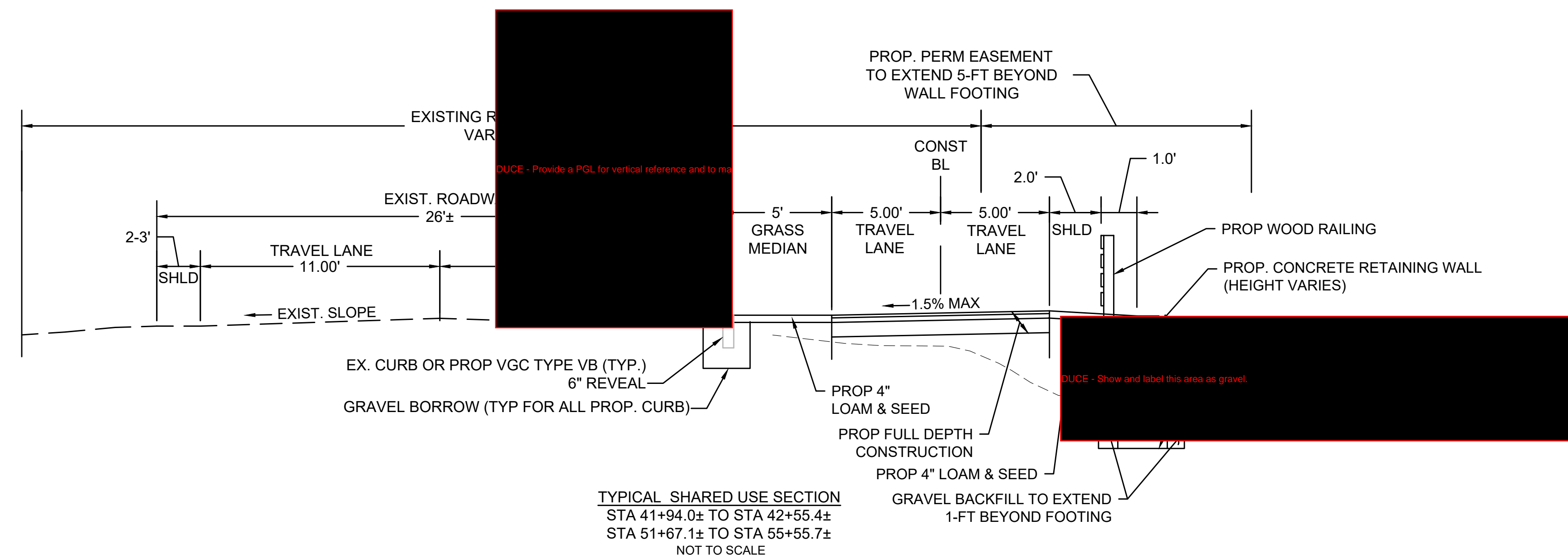
TYPICAL SECTIONS



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	08	93
PROJECT FILE NO.		607825	

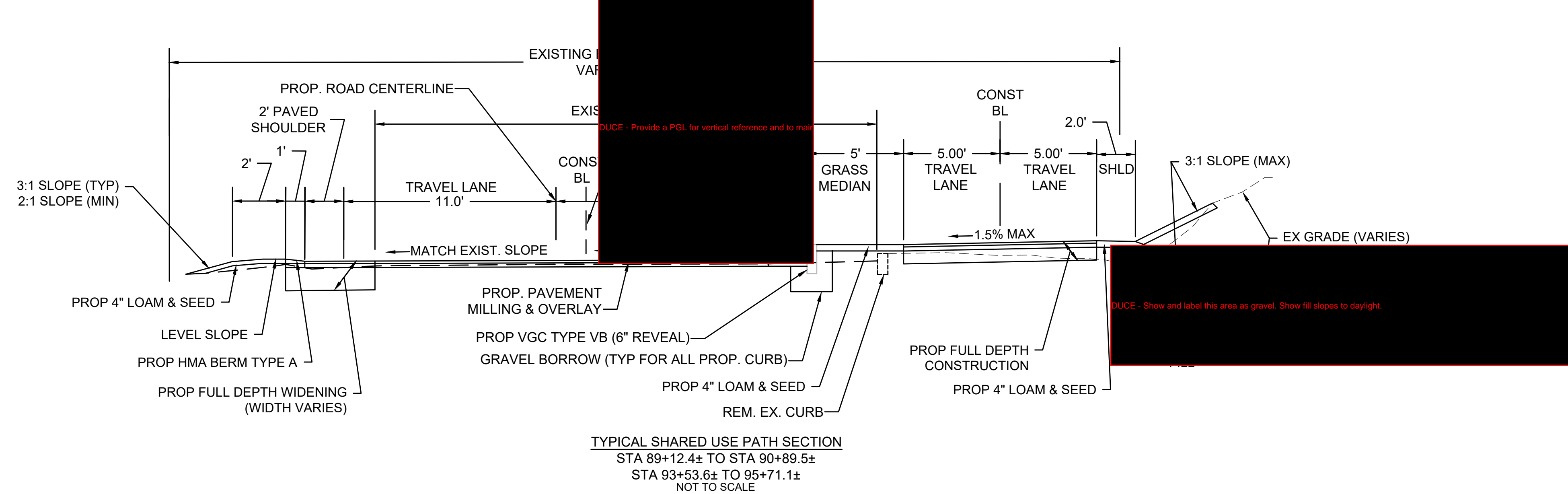
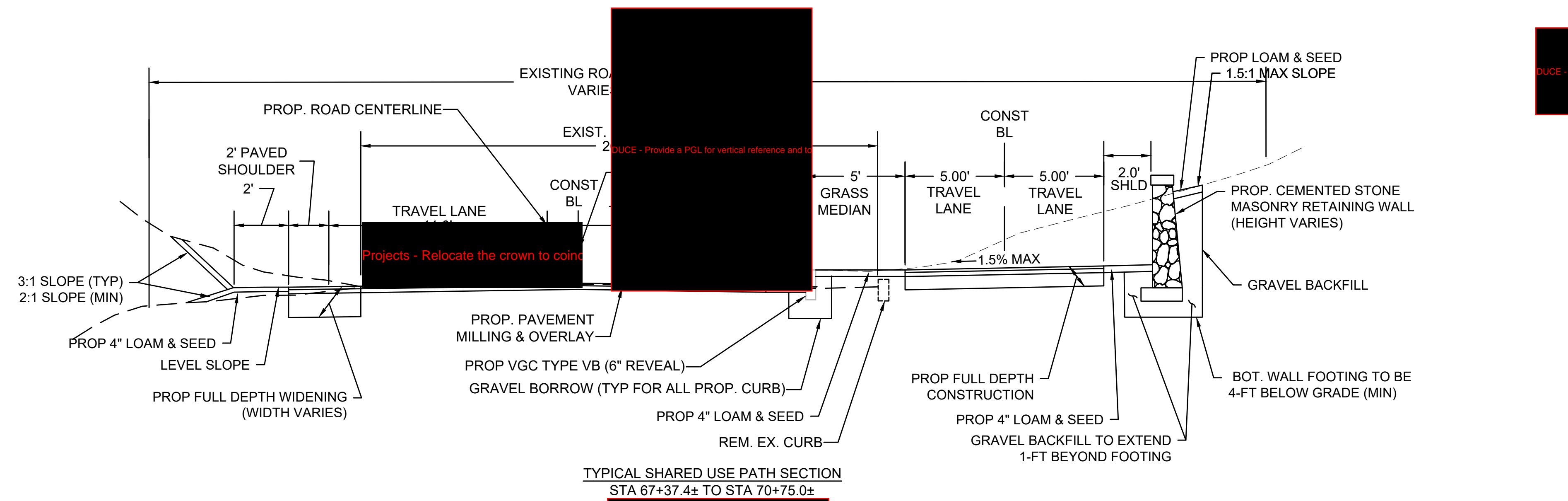
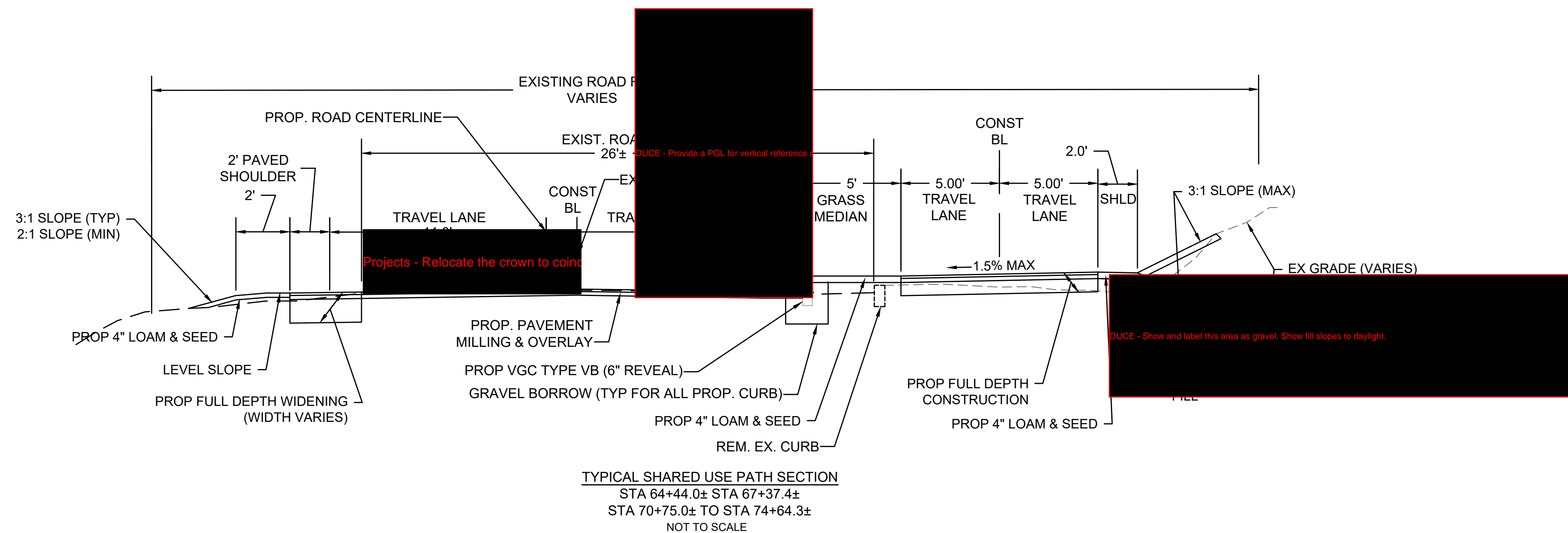
TYPICAL SECTIONS



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	09	93
PROJECT FILE NO.		607825	

TYPICAL SECTIONS

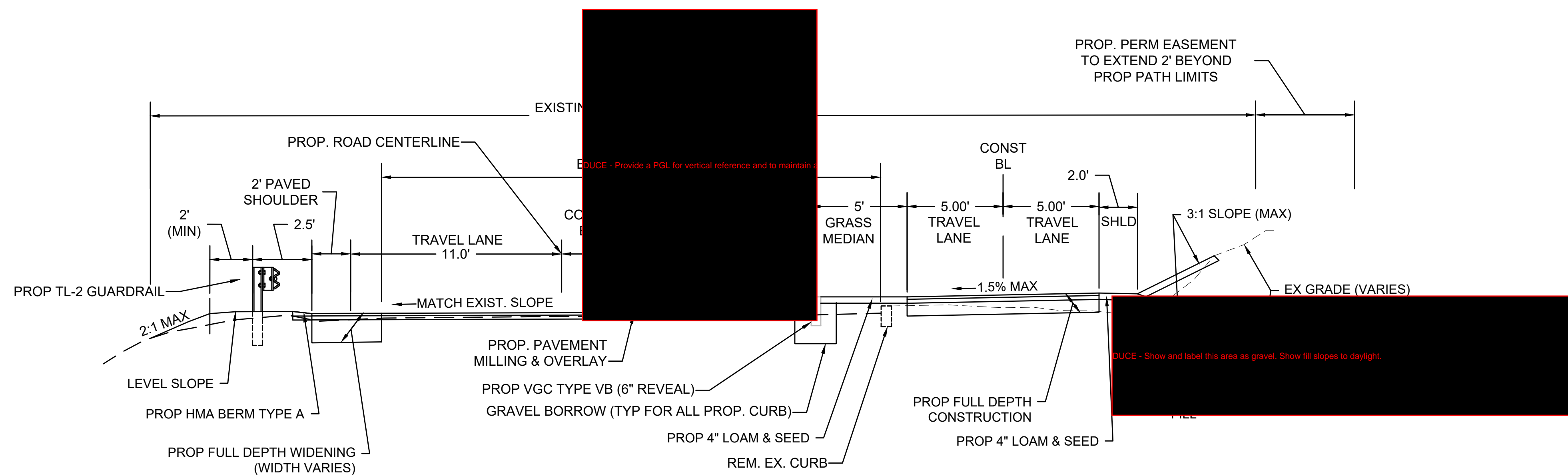


TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

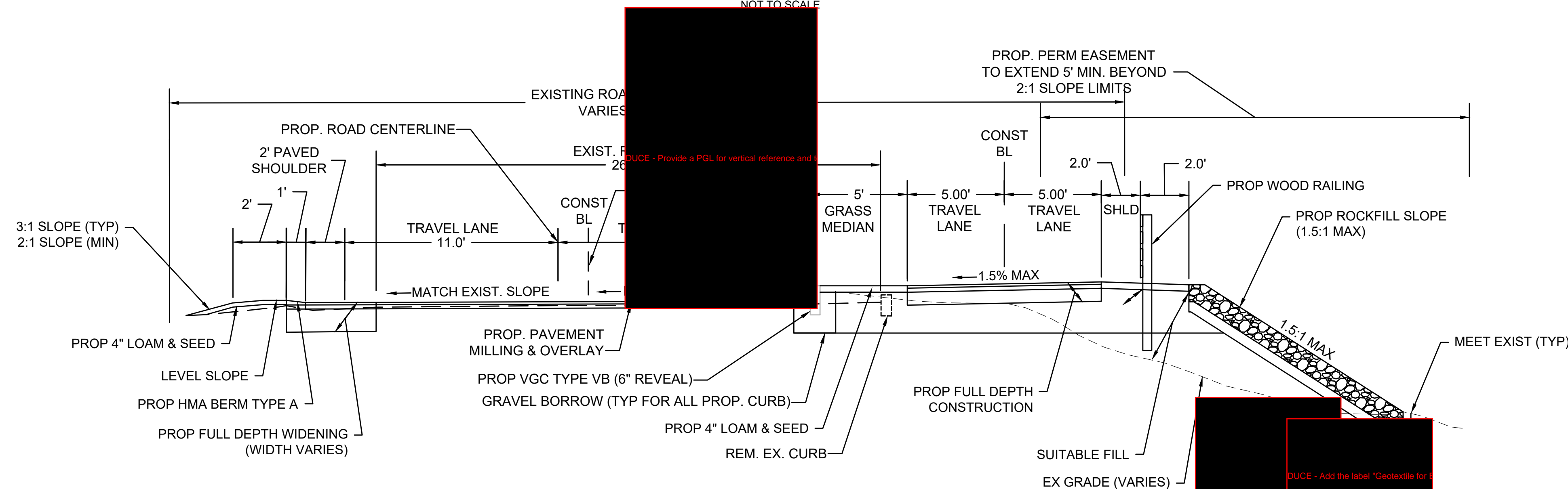
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	10	93

PROJECT FILE NO. 607825

TYPICAL SECTIONS



TYPICAL SHARED USE PATH SECTION
 STA 90+89.5± TO 91+65.4±
 NOT TO SCALE



TYPICAL SHARED USE PATH SECTION
 STA 91+65.4± TO STA 93+53.6±
 NOT TO SCALE

LEGEND & ABBREVIATION

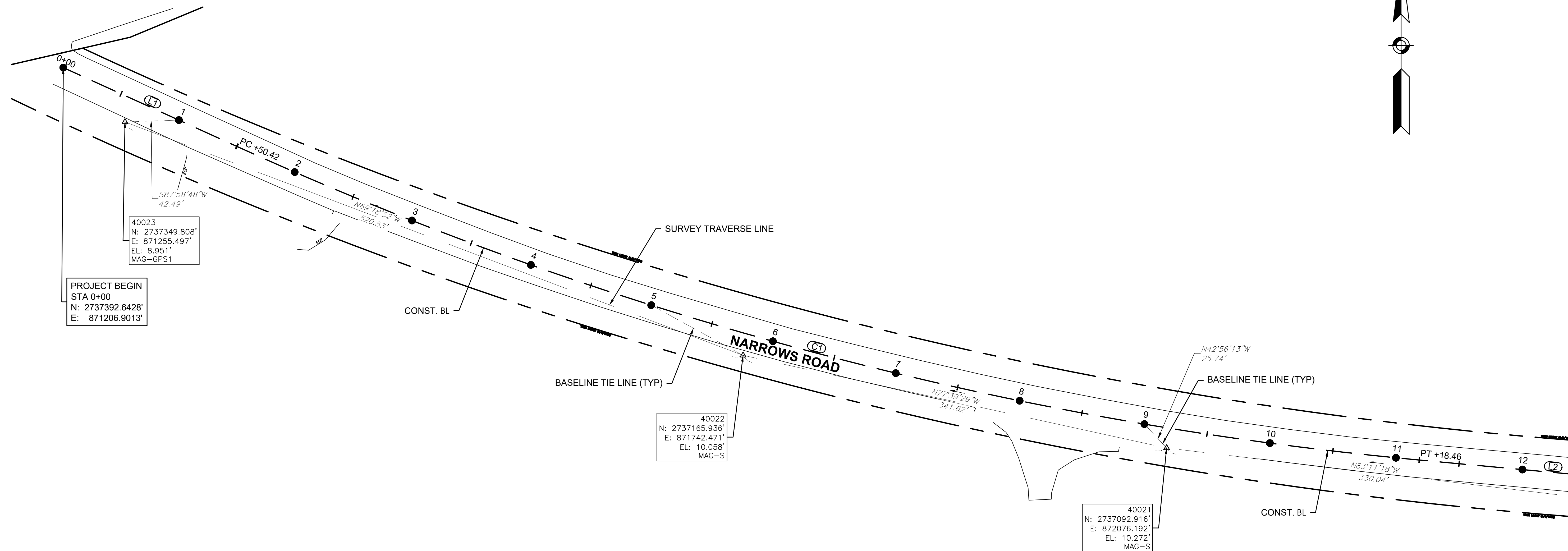
- △ - SURVEY CONTROL POINT
- MAG - MAGNETIZED NAIL
- MHH - MAGNETIZED HAMMER-LESS HUB
- DH - DRILL HOLE
- S - SET
- F - FOUND

Projects - The shared use path baseline geometry is no longer defined within the Plans. In

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	11	93
PROJECT FILE NO.		607825	

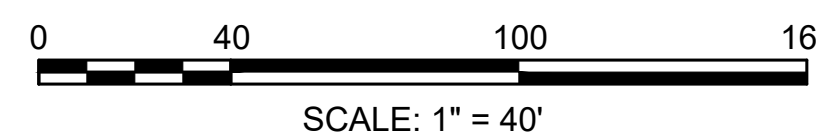
SURVEY CONTROL PLAN



CONTINUED ON SHEET NO 12

NARROWS ROAD & MINOT AVE ROAD CENTERLINE CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2737392.643	871206.901		S65°34'59"E 150.42'	1+50.42	2737330.465	871343.864
C1	1+50.42	2737330.465	871343.864	R=2900.00' Δ=19°07'33" L=968.04' T=488.57'		11+18.46	2737083.448	872275.215
L2	11+18.46	2737083.448	872275.215		S84°42'31"E 259.73'	13+78.19	2737059.496	872533.841



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

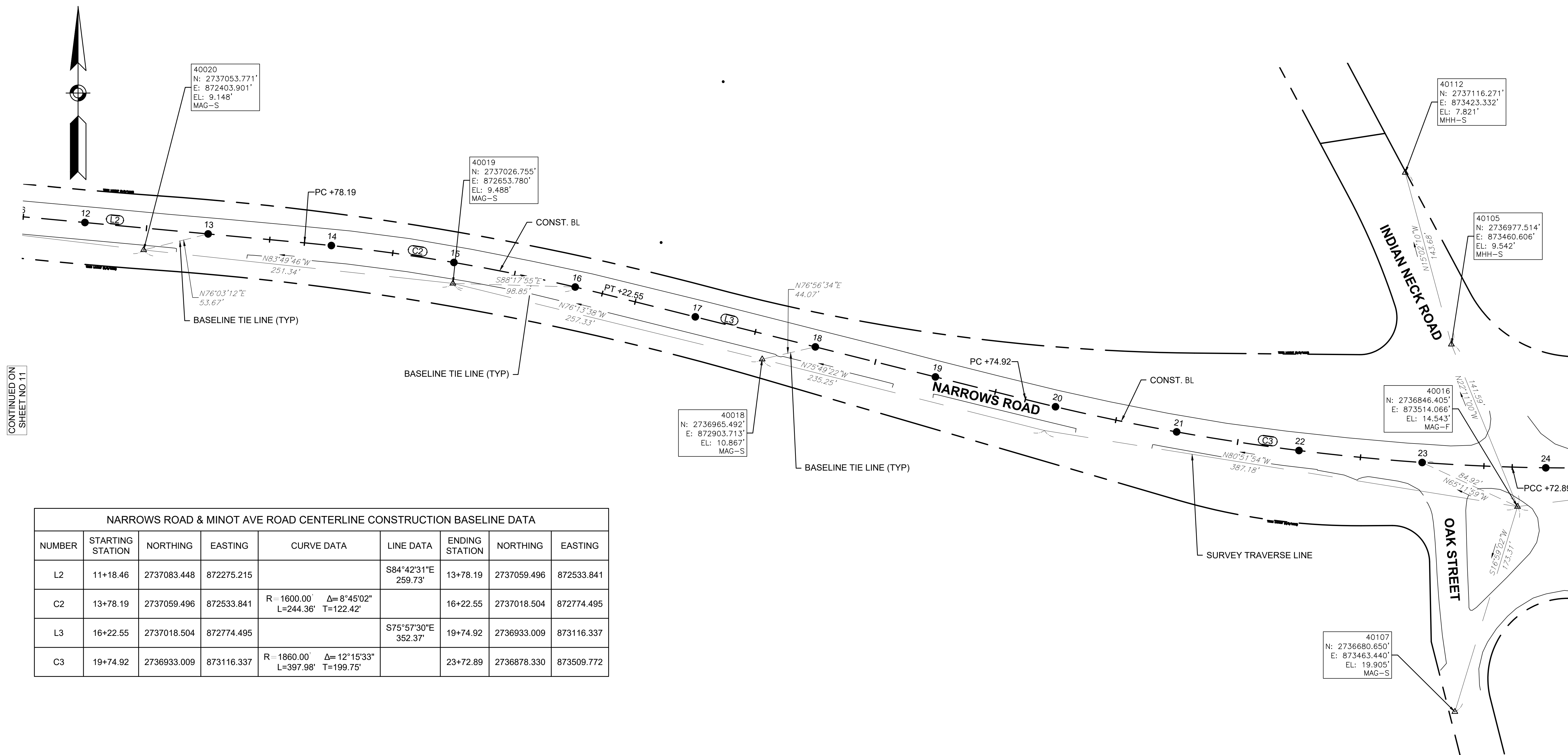
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	12	93
PROJECT FILE NO. 607825			

SURVEY CONTROL PLAN

LEGEND & ABBREVIATION

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

N

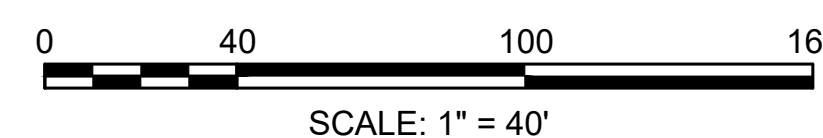


CONTINUED ON SHEET NO 11

CONTINUED ON SHEET NO 13

NARROWS ROAD & MINOT AVE ROAD CENTERLINE CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L2	11+18.46	2737083.448	872275.215		S84°42'31"E 259.73'	13+78.19	2737059.496	872533.841
C2	13+78.19	2737059.496	872533.841	R=1600.00' Δ=8°45'02" L=244.36' T=122.42'		16+22.55	2737018.504	872774.495
L3	16+22.55	2737018.504	872774.495		S75°57'30"E 352.37'	19+74.92	2736933.009	873116.337
C3	19+74.92	2736933.009	873116.337	R=1860.00' Δ=12°15'33" L=397.98' T=199.75'		23+72.89	2736878.330	873509.772



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

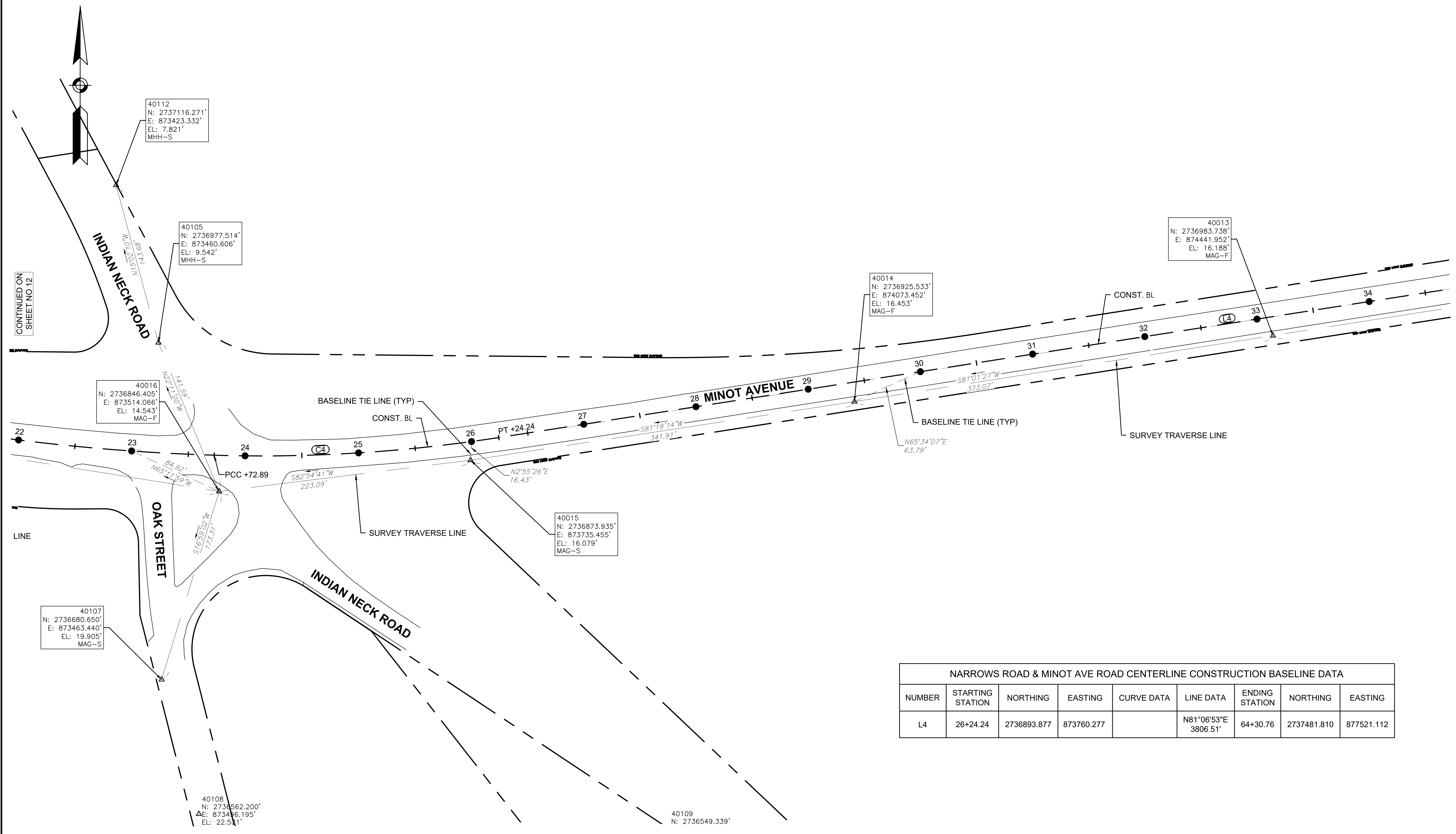
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	13	93

PROJECT FILE NO. 607825
SURVEY CONTROL PLAN

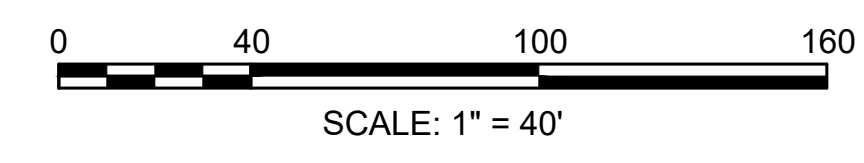
LEGEND & ABBREVIATION

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

N



NARROWS ROAD & MINOT AVE ROAD CENTERLINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L4	26+24.24	2736893.877	873760.277		N81°06'53"E 3806.51'	64+30.76	2737481.810	877521.112



CONTINUED ON
SHEET NO 12

CONTINUED ON
SHEET NO 14

LEGEND & ABBREVIATION

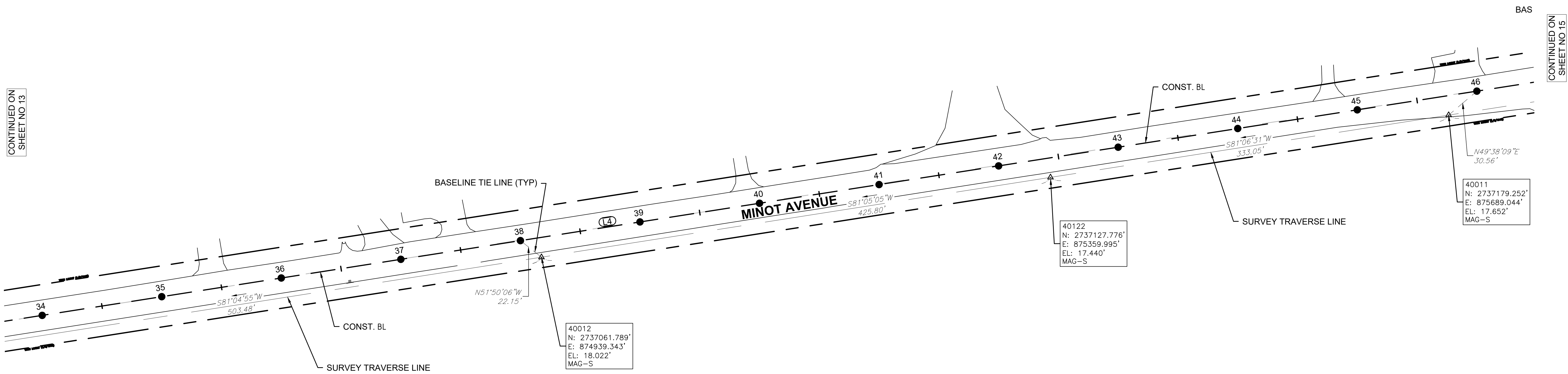
- △ - SURVEY CONTROL POINT
- MAG - MAGNETIZED NAIL
- MHH - MAGNETIZED HAMMER-LESS HUB
- DH - DRILL HOLE
- S - SET
- F - FOUND



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	14	93

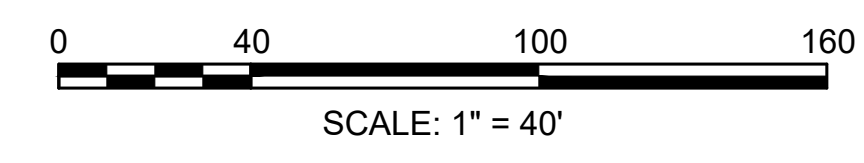
PROJECT FILE NO. 607825
SURVEY CONTROL PLAN



CONTINUED ON
SHEET NO 13

CONTINUED ON
SHEET NO 15

NARROWS ROAD & MINOT AVE ROAD CENTERLINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L4	26+24.24	2736893.877	873760.277		N81°06'53"E 3806.51'	64+30.76	2737481.810	877521.112



LEGEND & ABBREVIATION

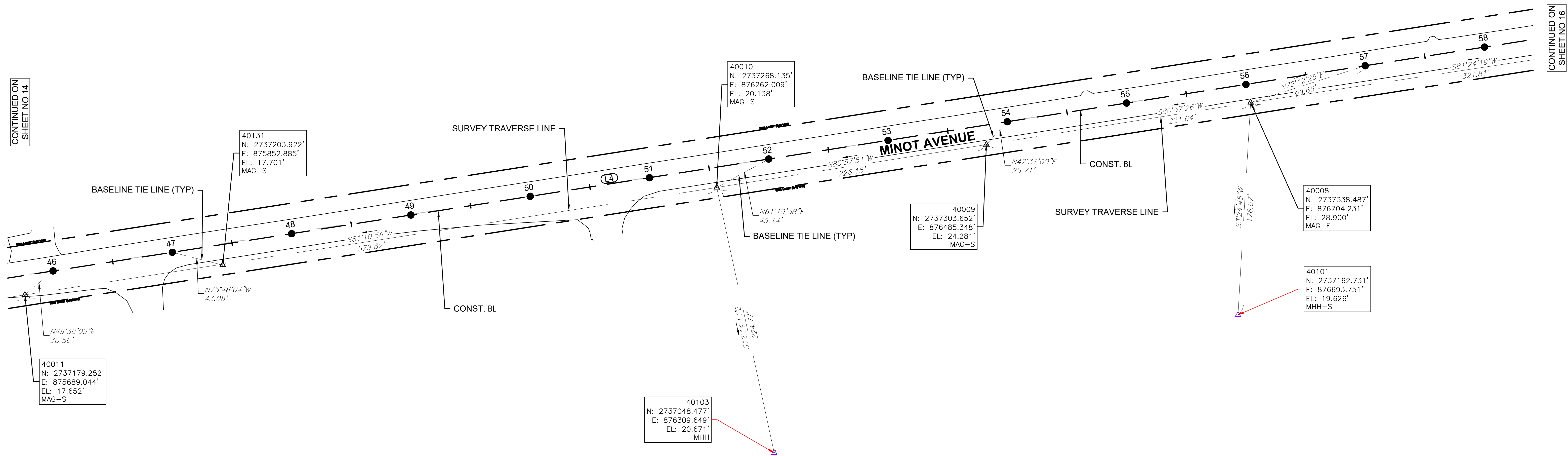
- △ - SURVEY CONTROL POINT
- MAG - MAGNETIZED NAIL
- MHH - MAGNETIZED HAMMER-LESS HUB
- DH - DRILL HOLE
- S - SET
- F - FOUND



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	15	93

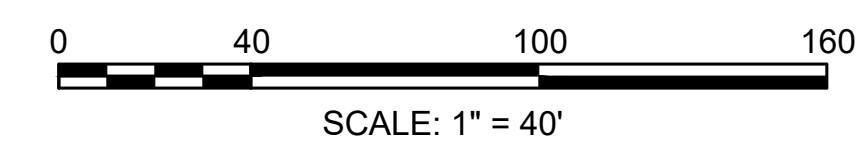
PROJECT FILE NO. 607825
SURVEY CONTROL PLAN



CONTINUED ON
SHEET NO 14

CONTINUED ON
SHEET NO 16

NARROWS ROAD & MINOT AVE ROAD CENTERLINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L4	26+24.24	2736893.877	873760.277		N81°06'53"E 3806.51'	64+30.76	2737481.810	877521.112



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	16	93

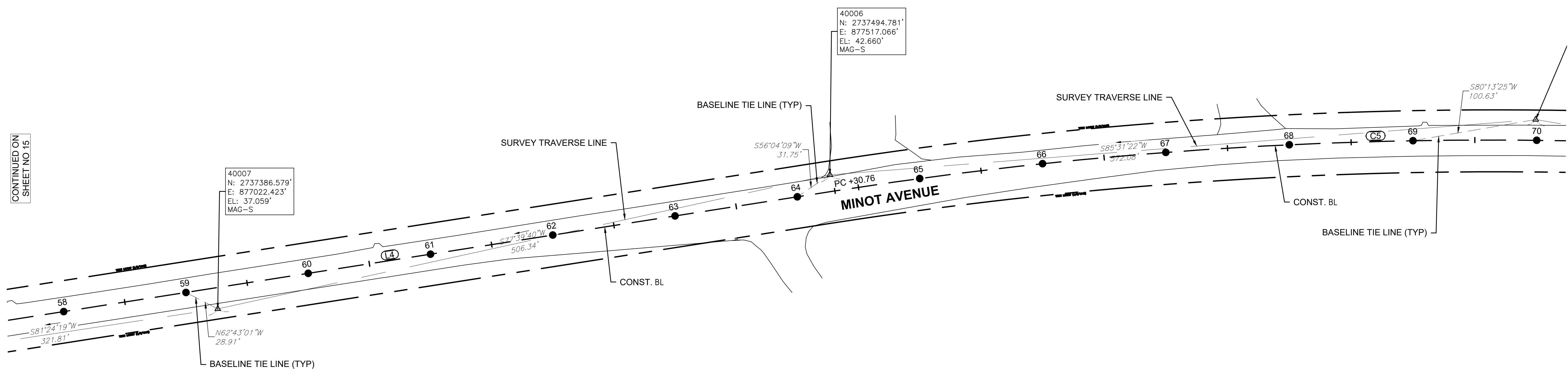
PROJECT FILE NO. 607825

SURVEY CONTROL PLAN

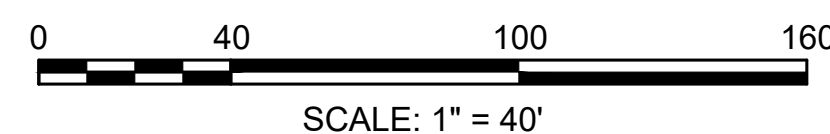
LEGEND & ABBREVIATION

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

N



NARROWS ROAD & MINOT AVE ROAD CENTERLINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L4	26+24.24	2736893.877	873760.277		N81°06'53"E 3806.51'	64+30.76	2737481.810	877521.112
C5	64+30.76	2737481.810	877521.112	R=3425.00' Δ=18°21'47" L=1097.70' T=553.60'		75+28.45	2737476.157	878614.103



CONTINUED ON
SHEET NO 15

CONTINUED ON
SHEET NO 17

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	17	93

PROJECT FILE NO. 607825

SURVEY CONTROL PLAN

LEGEND & ABBREVIATION

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

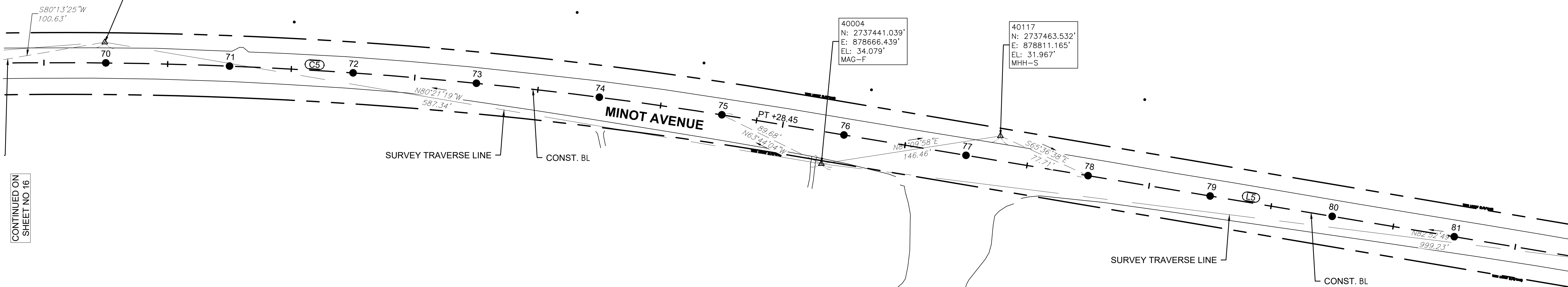
N



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

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

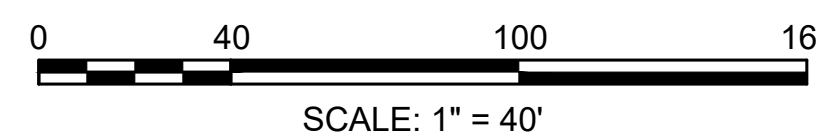
40117
N: 2737463.532'
E: 878811.165'
EL: 31.967'
MHH-S



CONTINUED ON
SHEET NO 16

CONTINUED ON
SHEET NO 18

NARROWS ROAD & MINOT AVE ROAD CENTERLINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C5	64+30.76	2737481.810	877521.112	R=3425.00' Δ=18°21'47" L=1097.70' T=553.60'		75+28.45	2737476.157	878614.103
L5	75+28.45	2737476.157	878614.103		S80°31'20"E 1379.95'	89+08.40	2737248.924	879975.216



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	18	93

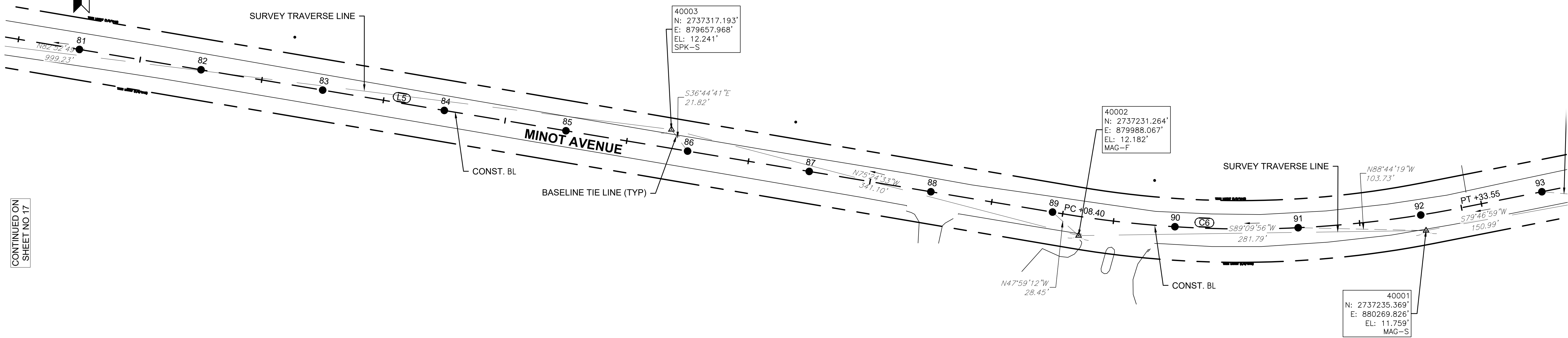
PROJECT FILE NO. 607825

SURVEY CONTROL PLAN

LEGEND & ABBREVIATION

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

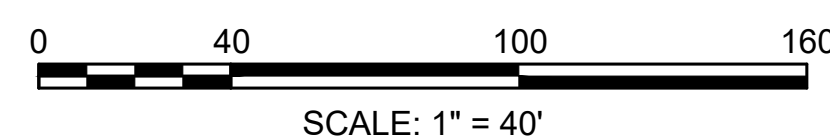
N



CONTINUED ON
SHEET NO 17

CONTINUED ON
SHEET NO 19

NARROWS ROAD & MINOT AVE ROAD CENTERLINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L5	75+28.45	2737476.157	878614.103		S80°31'20\"/>			
C6	89+08.40	2737248.924	879975.216	R=900.00' Δ=20°41'58\"/>				



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	19	93

PROJECT FILE NO. 607825
SURVEY CONTROL PLAN

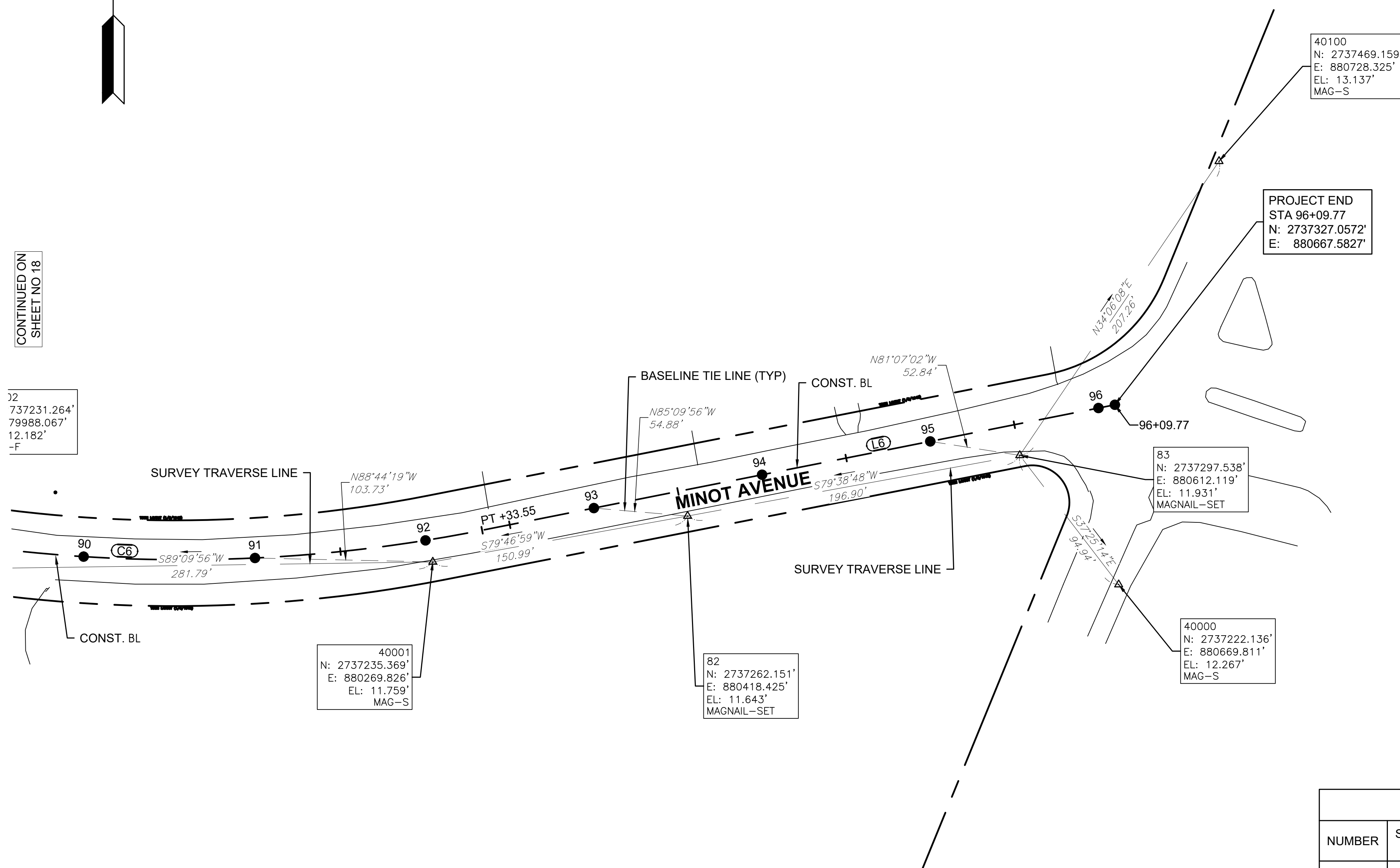
LEGEND & ABBREVIATION

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

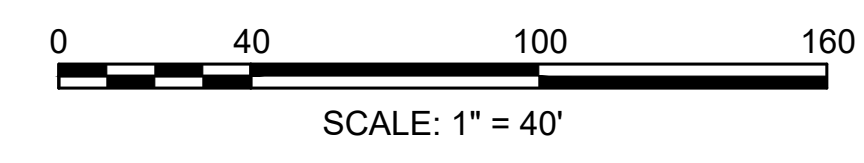


CONTINUED ON
SHEET NO. 18

2
737231.264'
79988.067'
12.182'
-F



NARROWS ROAD & MINOT AVE ROAD CENTERLINE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C6	89+08.40	2737248.924	879975.216	R= 900.00 Δ= 20°41'58" L=325.15' T=164.36'		92+33.55	2737253.844	880298.559
L6	92+33.55	2737253.844	880298.559		N78°46'43"E 376.22'	96+09.77	2737327.057	880667.583



Projects - Plot the proposed limit of grading throughout the Construction Plans.

TOWN OF WAREHAM SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	20	93
PROJECT FILE NO. 607825			

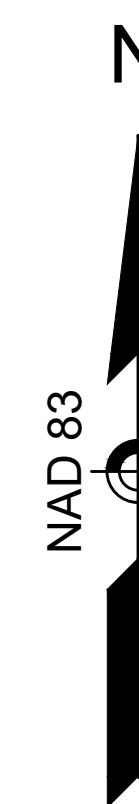
CONSTRUCTION PLANS

HIGHWAY GUARD DETAILS
NONE

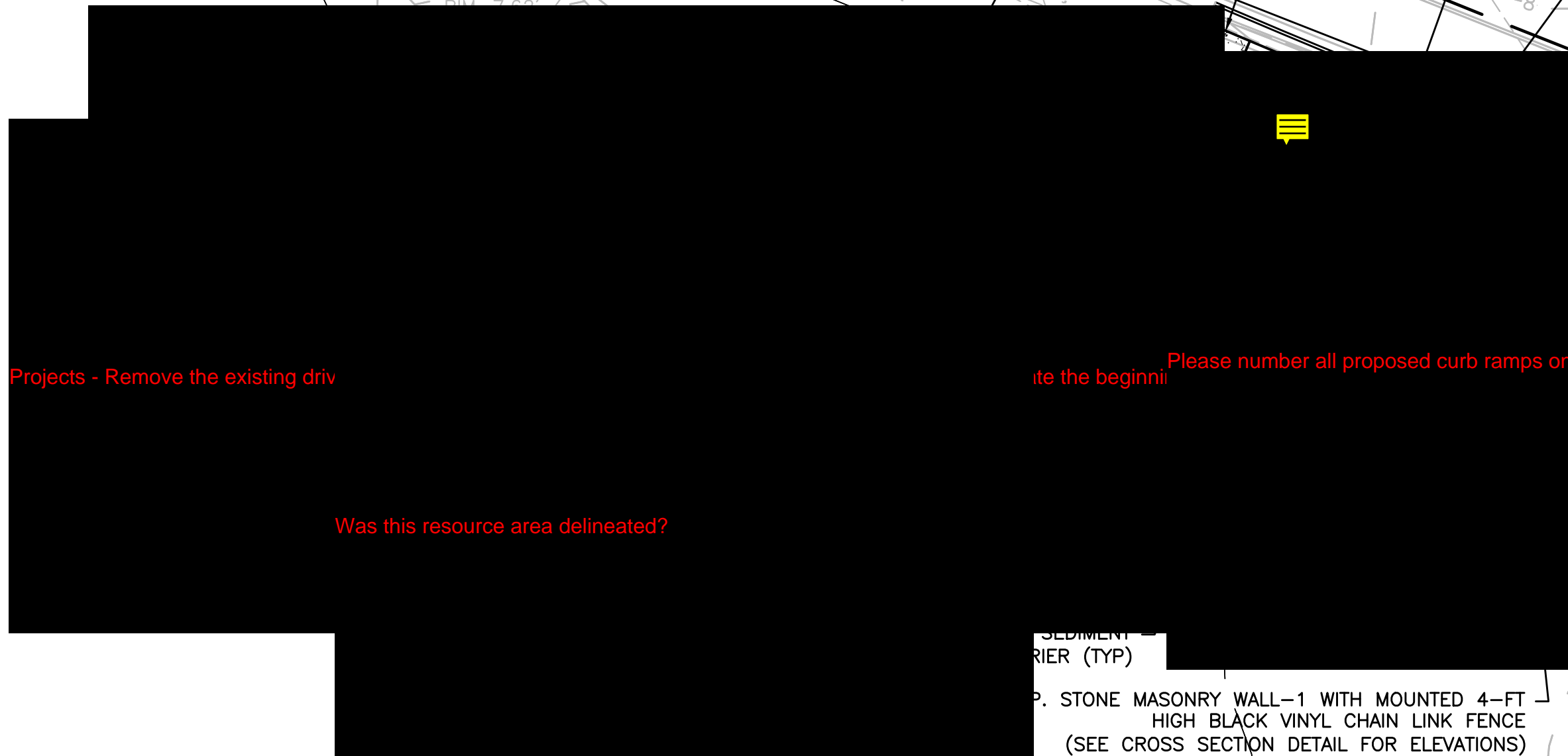
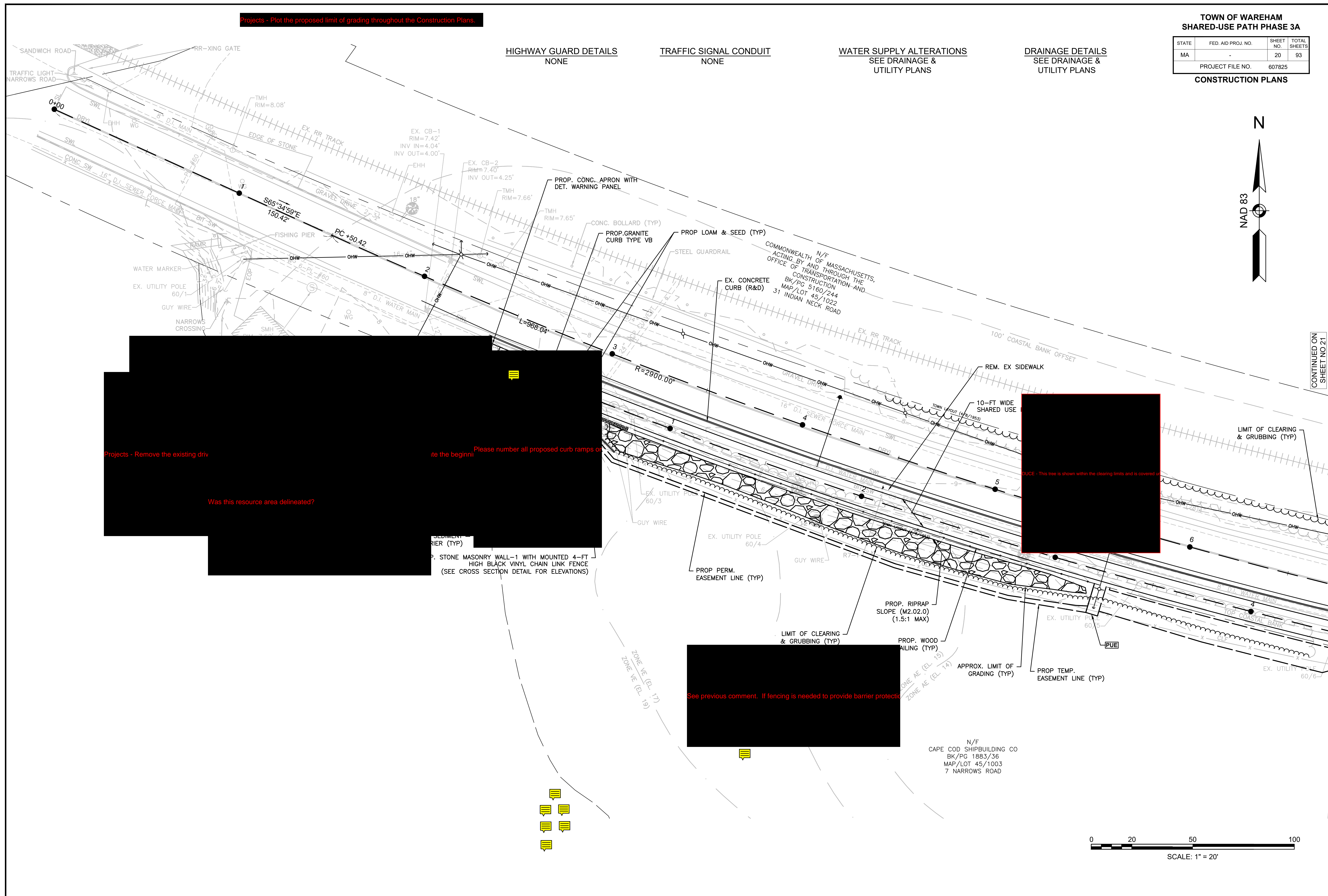
TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE &
UTILITY PLANS

DRAINAGE DETAILS
SEE DRAINAGE &
UTILITY PLANS



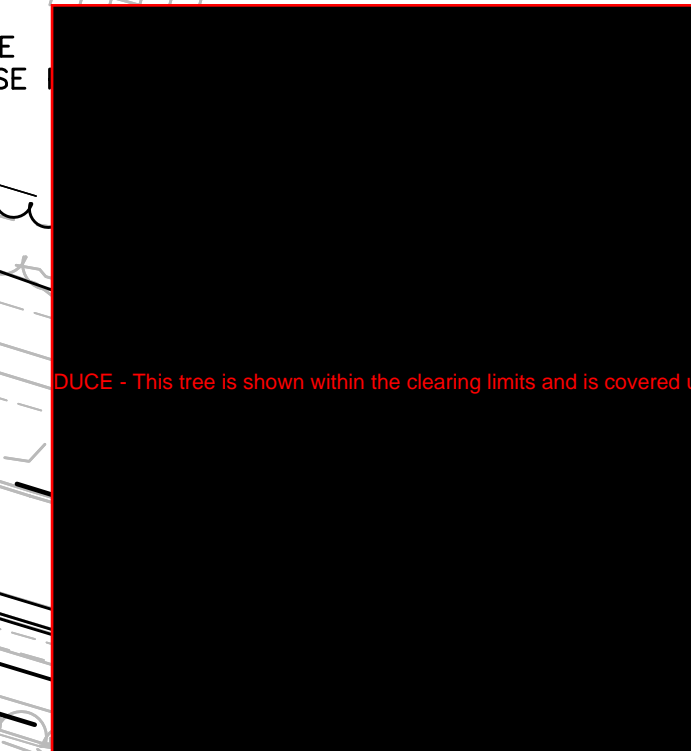
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SHEET NO 21



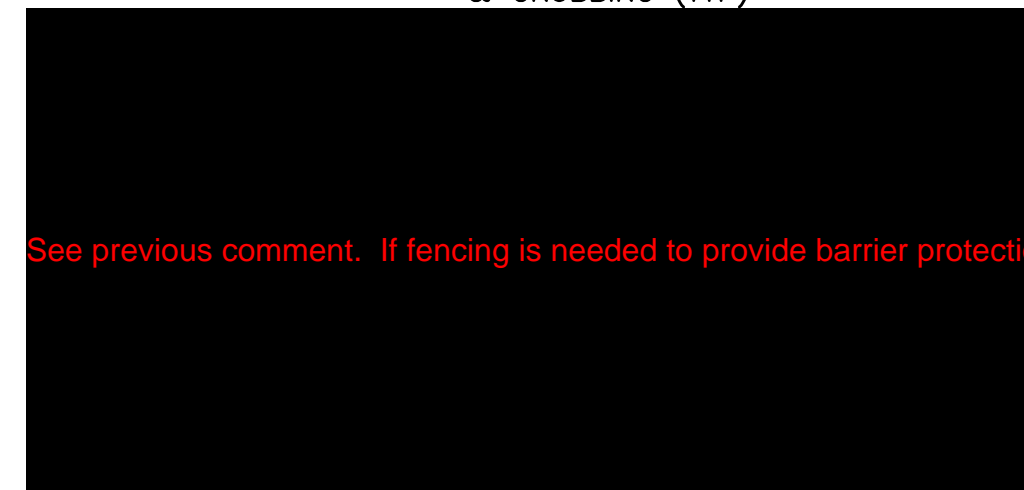
Projects - Remove the existing driv

Was this resource area delineated?

Please number all proposed curb ramps on the beginning



DUCE - This tree is shown within the clearing limits and is covered



See previous comment. If fencing is needed to provide barrier protection

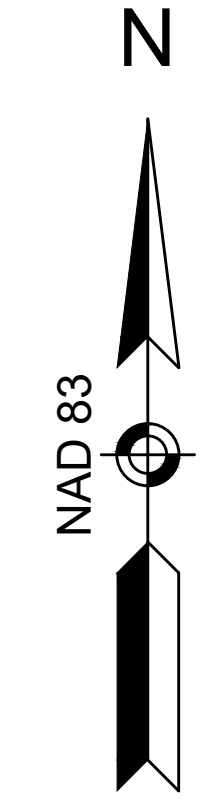
N/F
CAPE COD SHIPBUILDING CO
BK/PG 1883/36
MAP/LOT 45/1003
7 NARROWS ROAD



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

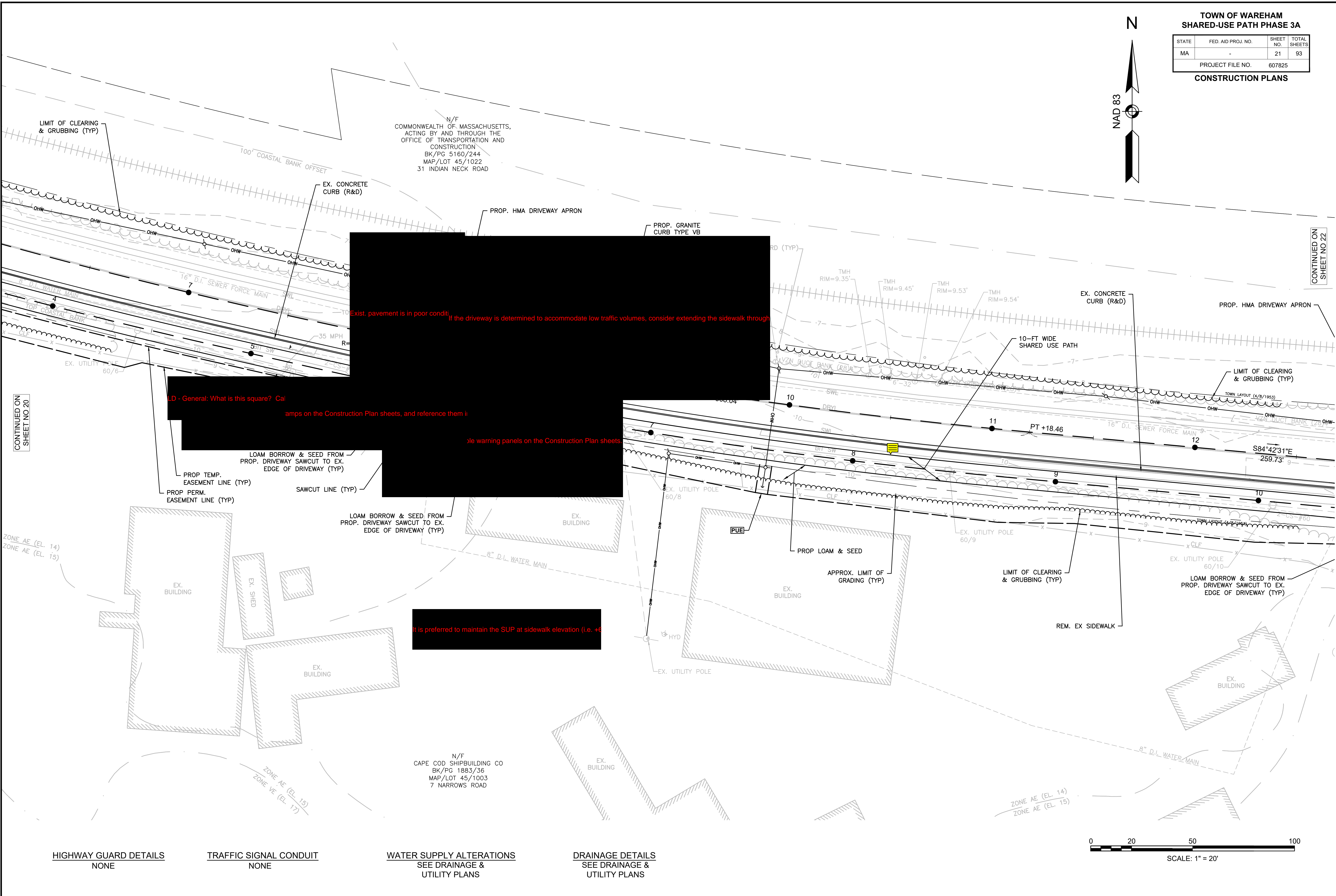
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	21	93
PROJECT FILE NO. 607825			

CONSTRUCTION PLANS



N/F
COMMONWEALTH OF MASSACHUSETTS,
ACTING BY AND THROUGH THE
OFFICE OF TRANSPORTATION AND
CONSTRUCTION
BK/PG 5160/244
MAP/LOT 45/1022
31 INDIAN NECK ROAD

N/F
CAPE COD SHIPBUILDING CO
BK/PG 1883/36
MAP/LOT 45/1003
7 NARROWS ROAD



Exist. pavement is in poor condition. If the driveway is determined to accommodate low traffic volumes, consider extending the sidewalk through the driveway.

LD - General: What is this square? Call the engineer.

Refer to the notes on the Construction Plan sheets, and reference them in the notes.

Place warning panels on the Construction Plan sheets.

It is preferred to maintain the SUP at sidewalk elevation (i.e. +4').

CONTINUED ON SHEET NO 20

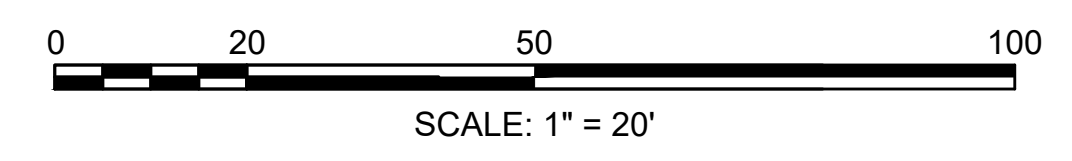
CONTINUED ON SHEET NO 22

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE &
UTILITY PLANS

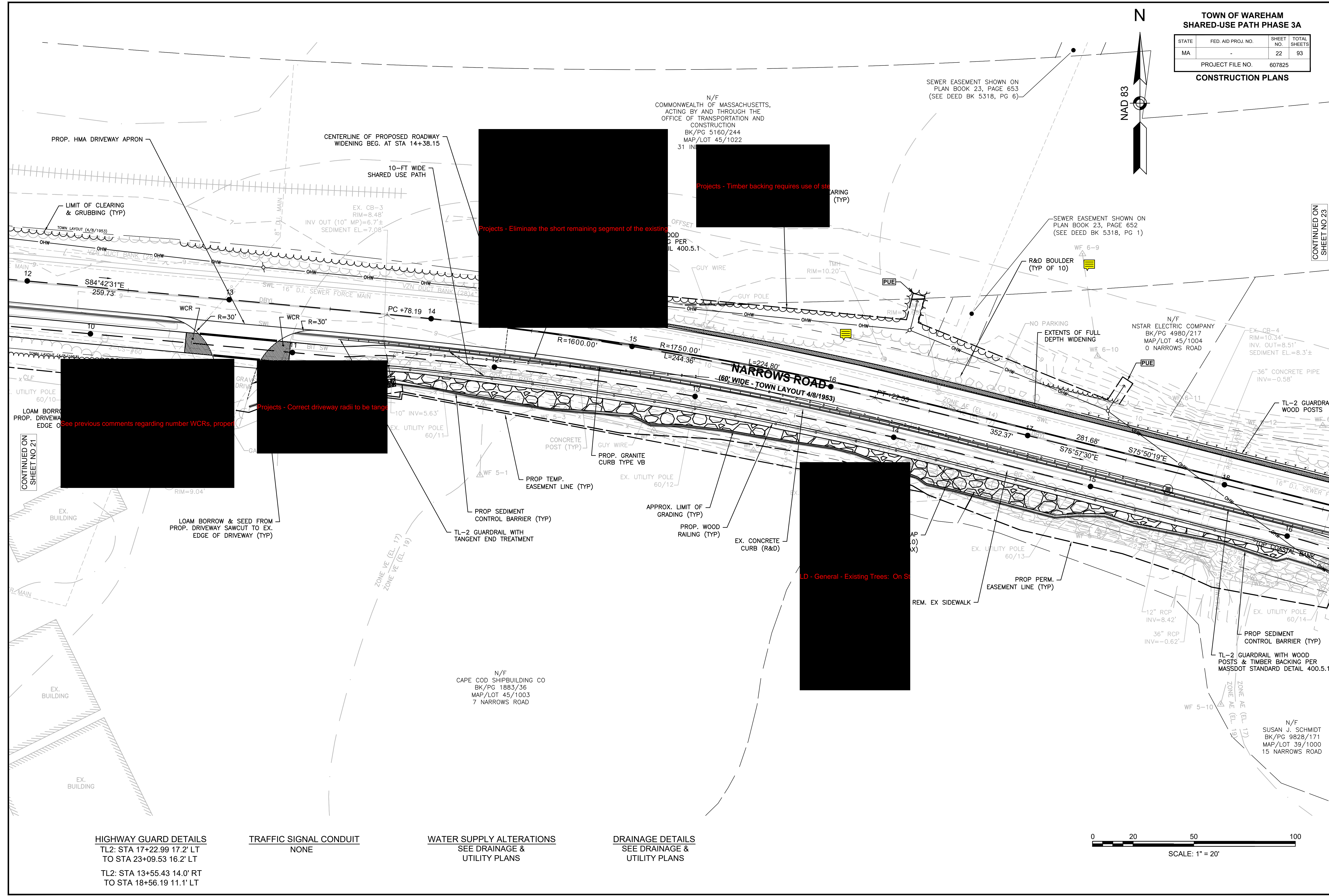
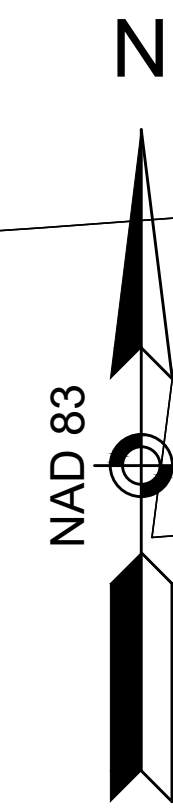
DRAINAGE DETAILS
SEE DRAINAGE &
UTILITY PLANS



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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	22	93
PROJECT FILE NO. 607825			

CONSTRUCTION PLANS



CONTINUED ON
SHEET NO 23

CONTINUED ON
SHEET NO 21

HIGHWAY GUARD DETAILS
TL2: STA 17+22.99 17.2' LT
TO STA 23+09.53 16.2' LT
TL2: STA 13+55.43 14.0' RT
TO STA 18+56.19 11.1' LT

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE &
UTILITY PLANS

DRAINAGE DETAILS
SEE DRAINAGE &
UTILITY PLANS

0 20 50 100
SCALE: 1" = 20'

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	23	93
PROJECT FILE NO.		607825	

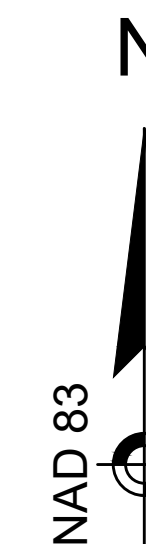
CONSTRUCTION PLANS

HIGHWAY GUARD DETAILS
TL2: STA 17+22.99 17.2' LT
TO STA 23+09.53 16.2' LT

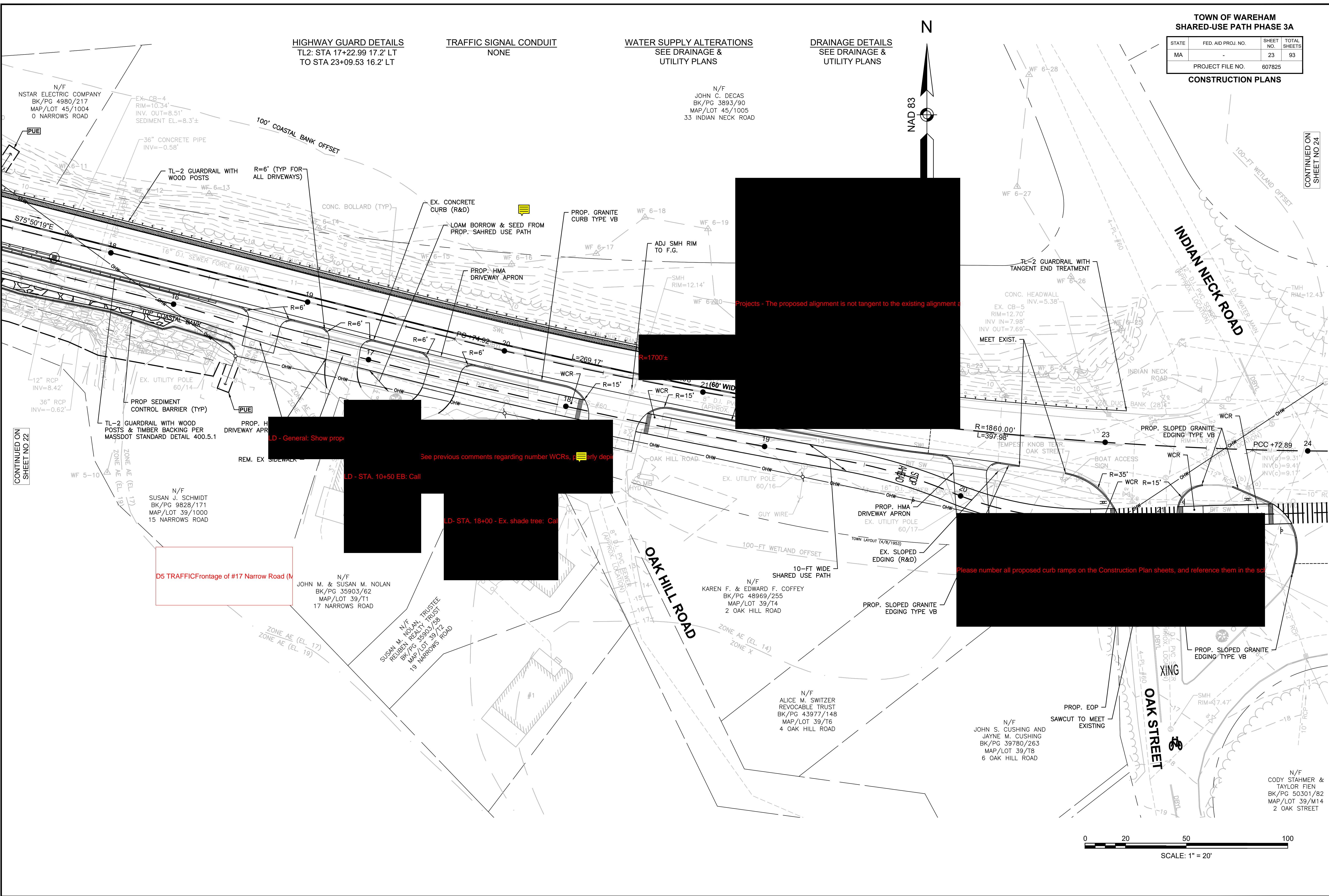
TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE &
UTILITY PLANS

DRAINAGE DETAILS
SEE DRAINAGE &
UTILITY PLANS



CONTINUED ON
SHEET NO 24



Projects - The proposed alignment is not tangent to the existing alignment at

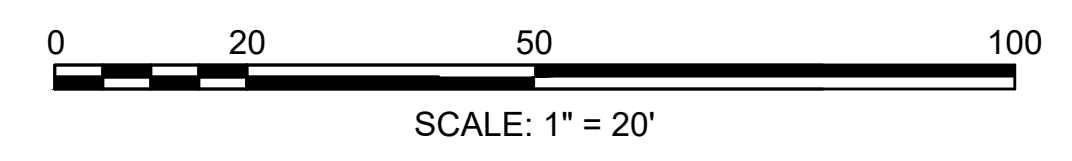
LD - General: Show prop

LD - STA. 10+50 EB: Call

LD - STA. 18+00 - Ex. shade tree: Call

D5 TRAFFIC Frontage of #17 Narrow Road (N

Please number all proposed curb ramps on the Construction Plan sheets, and reference them in the



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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	25	93
PROJECT FILE NO. 607825			

CONSTRUCTION PLANS

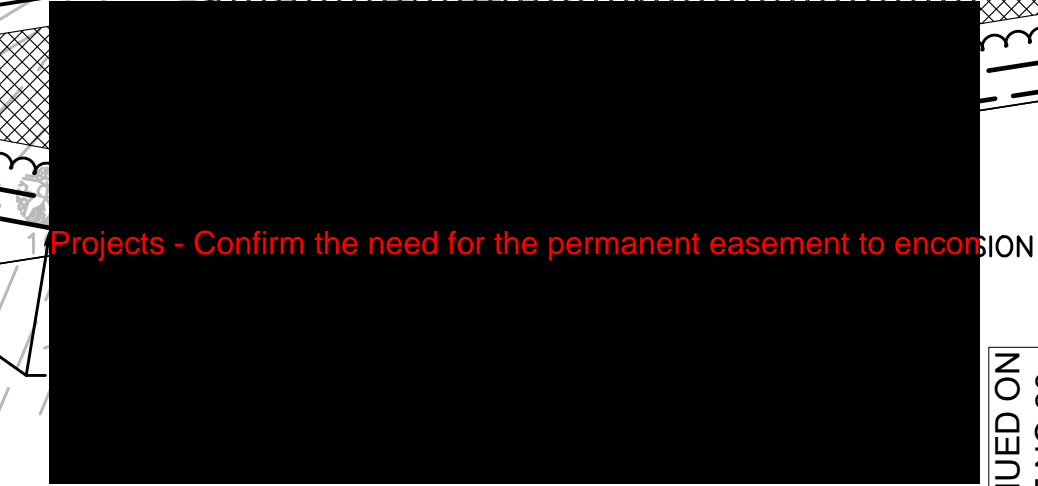
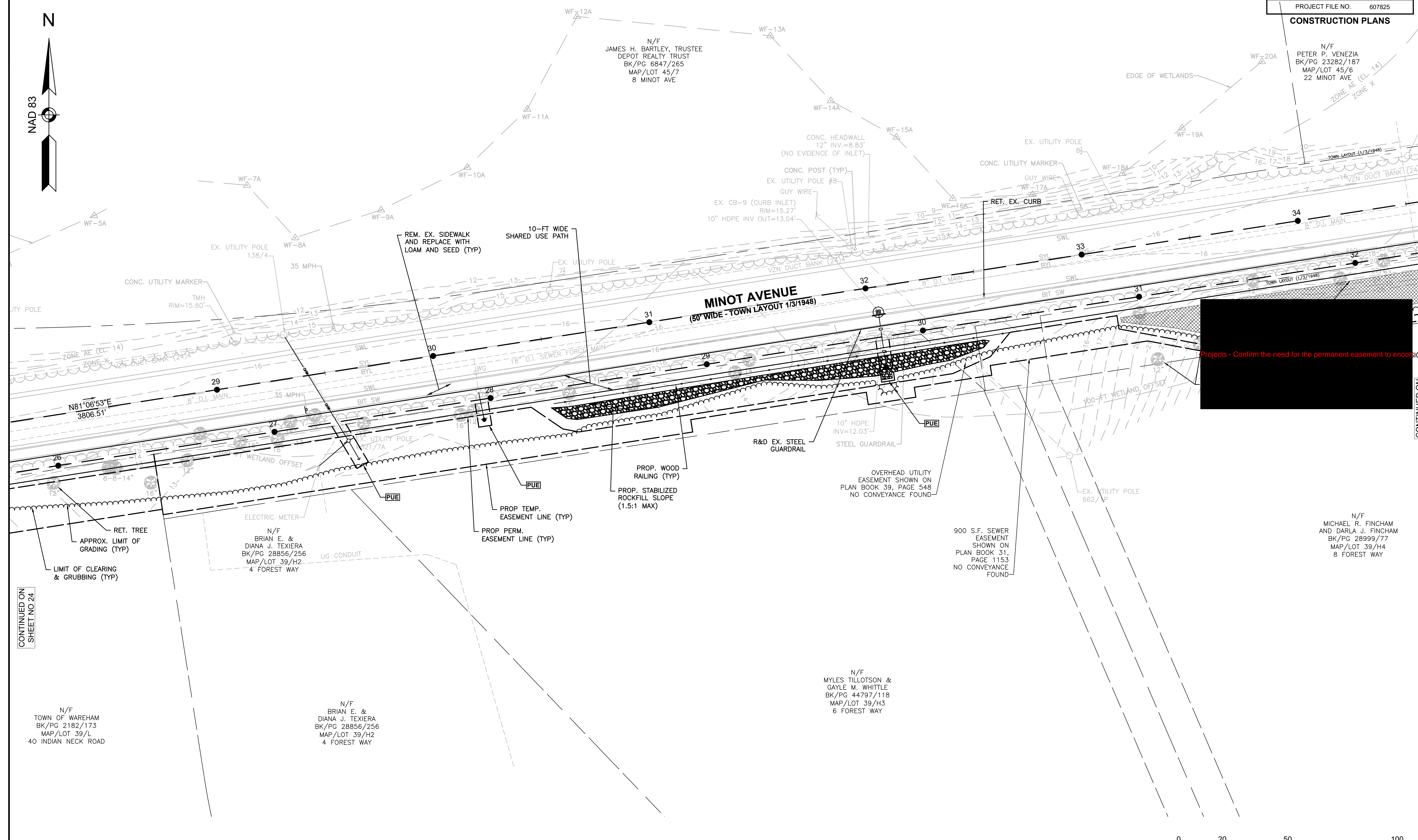
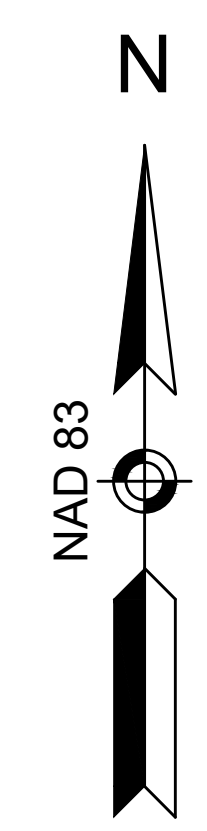
N/F
PETER P. VENEZIA
BK/PG 23282/187
MAP/LOT 45/6
22 MINOT AVE

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE &
UTILITY PLANS

DRAINAGE DETAILS
SEE DRAINAGE &
UTILITY PLANS



Projects - Confirm the need for the permanent easement to encroachment

CONTINUED ON
SHEET NO 24

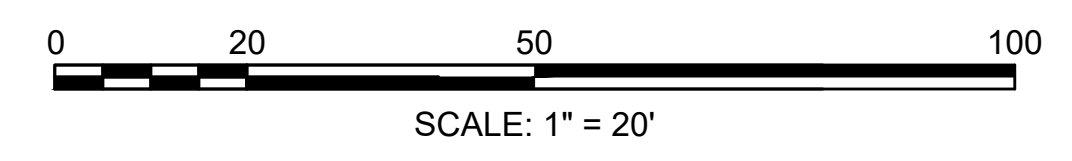
CONTINUED ON
SHEET NO 26

N/F
TOWN OF WAREHAM
BK/PG 2182/173
MAP/LOT 39/L
40 INDIAN NECK ROAD

N/F
BRIAN E. &
DIANA J. TEXIERA
BK/PG 28856/256
MAP/LOT 39/H2
4 FOREST WAY

N/F
MYLES TILLOTSON &
GAYLE M. WHITTLE
BK/PG 44797/118
MAP/LOT 39/H3
6 FOREST WAY

N/F
MICHAEL R. FINCHAM
AND DARLA J. FINCHAM
BK/PG 28999/77
MAP/LOT 39/H4
8 FOREST WAY



HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE &
UTILITY PLANS

DRAINAGE DETAILS
SEE DRAINAGE &
UTILITY PLANS

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	26	93
PROJECT FILE NO. 607825			

CONSTRUCTION PLANS

N/F
EDWARD J. &
CHRISTINE E. CALLINAN
BK/PG 18524/198
MAP/LOT 44/3
30 MINOT AVE

N/F
COURTNEY MONTEIRO
BK/PG 49264/274
MAP/LOT 44/2
2 FREIGHT HOUSE ROAD

N/F
ANDREW M. WALKER
BK/PG 50220/212
MAP/LOT 44/4
28 MINOT AVE

N/F
SHAUN E. ROBISON &
REBECCA SNOW
BK/PG 37015/24
MAP/LOT 45/5
24 MINOT AVE

N/F
PETER P. VENEZIA
BK/PG 23282/187
MAP/LOT 45/6
22 MINOT AVE

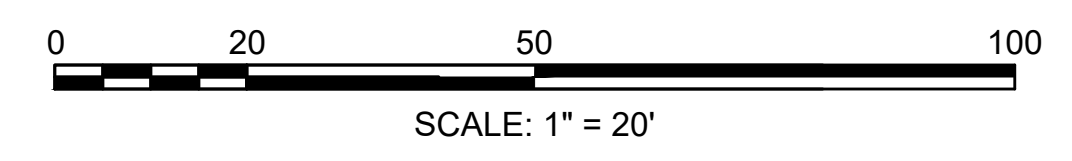
CLOSE EX. CURB CUT
(UNUSED) WITH PROP.
GRANITE CURB TYPE VB

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

CONTINUED ON
SHEET NO 27

CONTINUED ON
SHEET NO 25

LD - General: Trees with impaired health to be removed and replaced with proposed species



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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	27	93
PROJECT FILE NO.		607825	

CONSTRUCTION PLANS

N/F
DAVID W. JR &
CINDY L. NORCROSS
BK/PG 12021/320
MAP/LOT 44/11
44 MINOT AVE

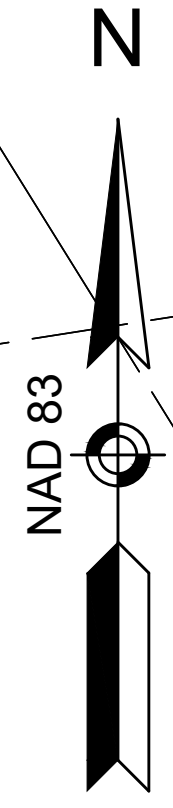
N/F
KEVIN N. & EDITH E. PIERCE
BK/PG 36684/37
MAP/LOT 44/10
42 MINOT AVE

N/F
JOHN & NICOLE NORCROSS
BK/PG 43638/117
MAP/LOT 44/9
1 FREIGHT HOUSE ROAD

N/F
DAVID A. ROSE AND DAWN ROSE
BK/PG 18487/107
MAP/LOT 44/8
3 FREIGHT HOUSE ROAD

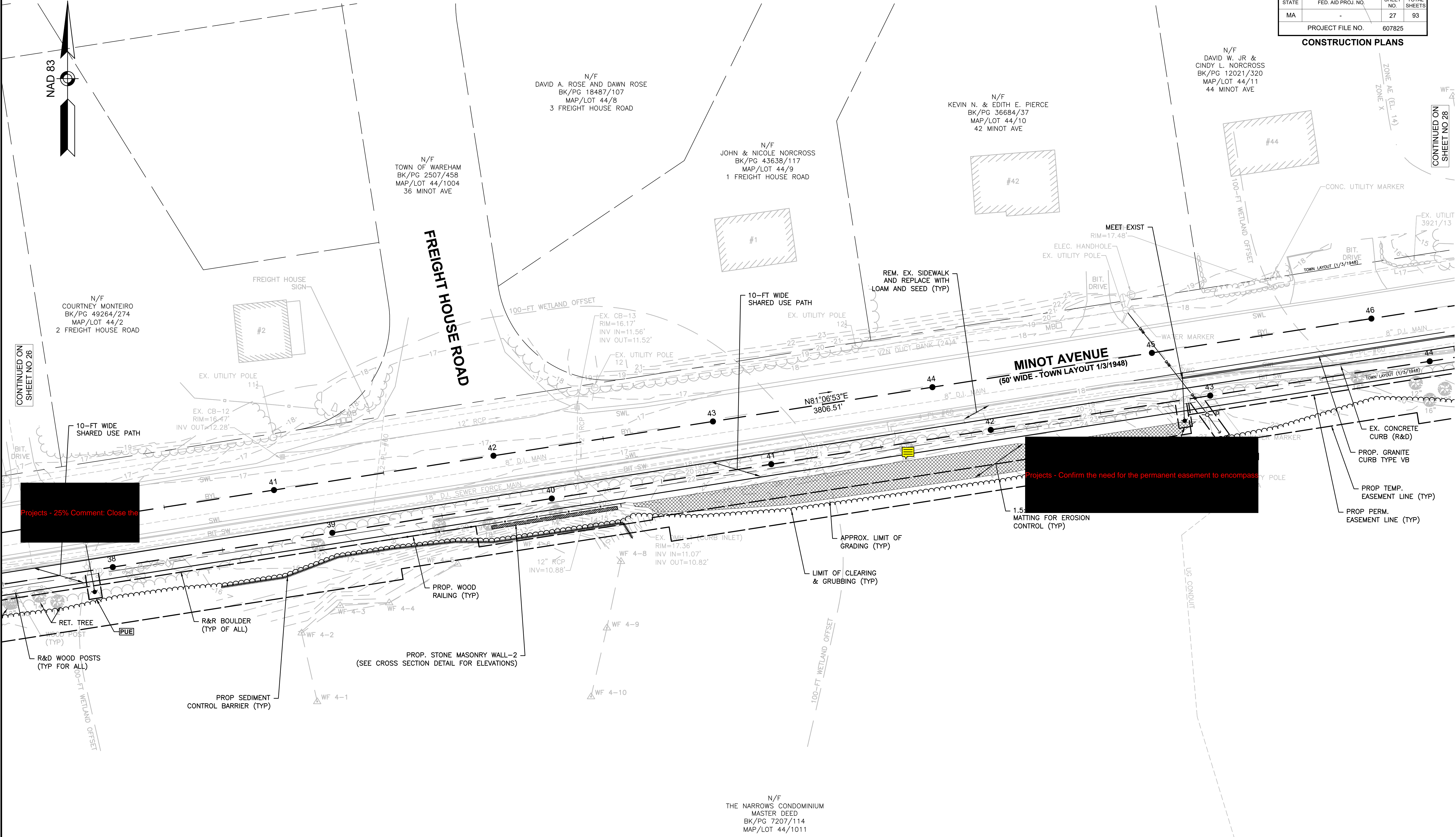
N/F
TOWN OF WAREHAM
BK/PG 2507/458
MAP/LOT 44/1004
36 MINOT AVE

N/F
COURTNEY MONTEIRO
BK/PG 49264/274
MAP/LOT 44/2
2 FREIGHT HOUSE ROAD



CONTINUED ON
SHEET NO 26

CONTINUED ON
SHEET NO 28



Projects - 25% Comment: Close the

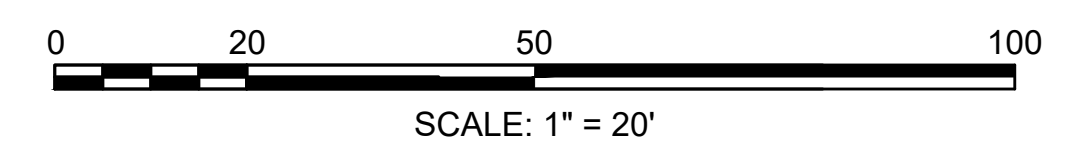
Projects - Confirm the need for the permanent easement to encompass

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE &
UTILITY PLANS

DRAINAGE DETAILS
SEE DRAINAGE &
UTILITY PLANS

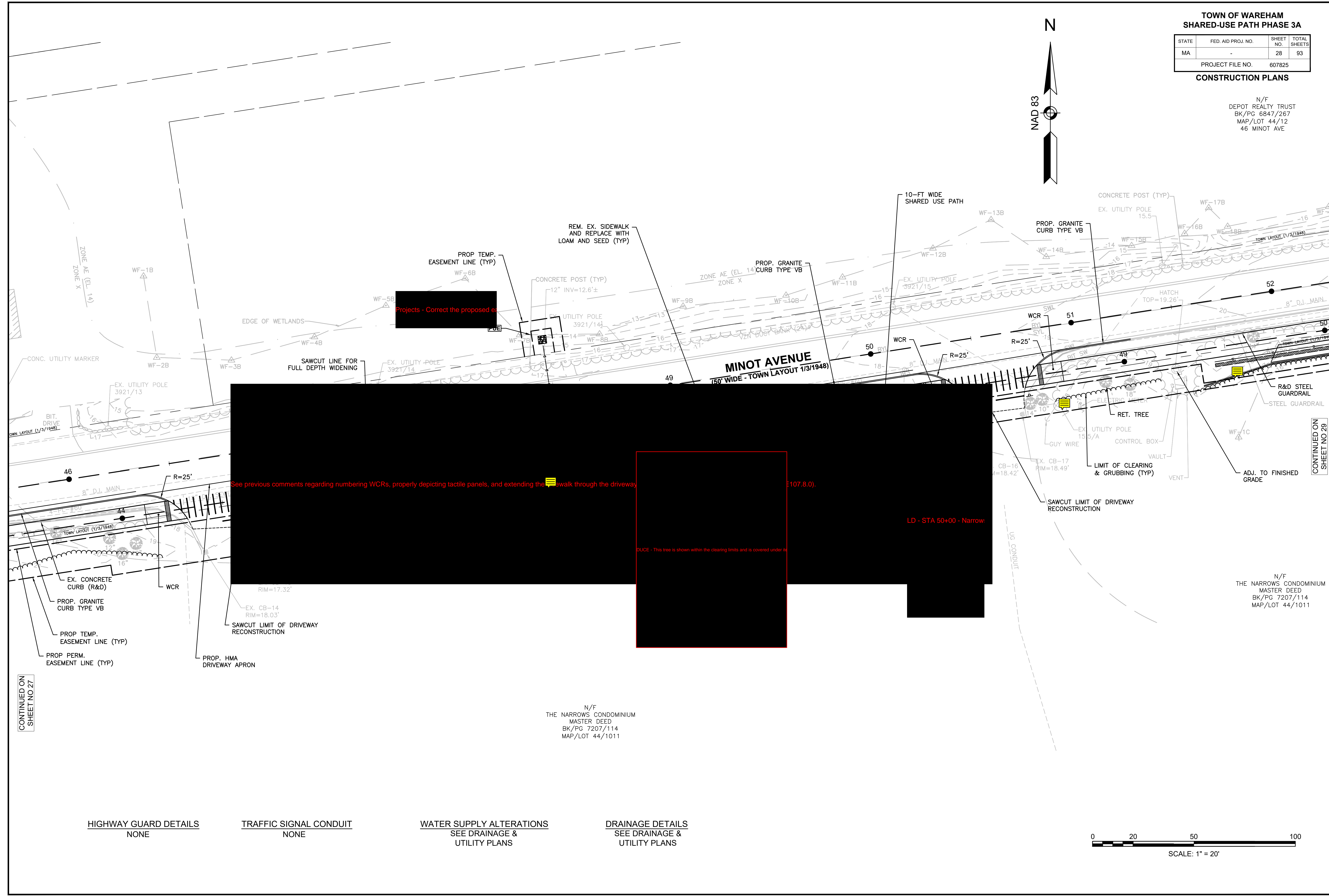
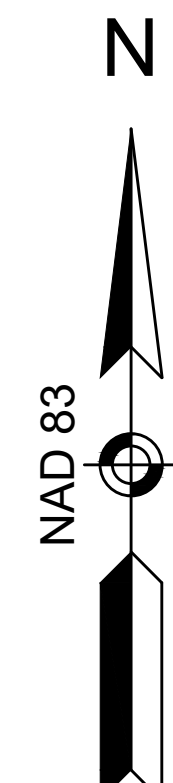


**TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	28	93
PROJECT FILE NO. 607825			

CONSTRUCTION PLANS

N/F
DEPOT REALTY TRUST
BK/PG 6847/267
MAP/LOT 44/12
46 MINOT AVE



Projects - Correct the proposed easement line (TYP)

See previous comments regarding numbering WCRs, properly depicting tactile panels, and extending the sidewalk through the driveway

107.8.0)

LD - STA 50+00 - Narrow

DUCE - This tree is shown within the clearing limits and is covered under the

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK/PG 7207/114
MAP/LOT 44/1011

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK/PG 7207/114
MAP/LOT 44/1011

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

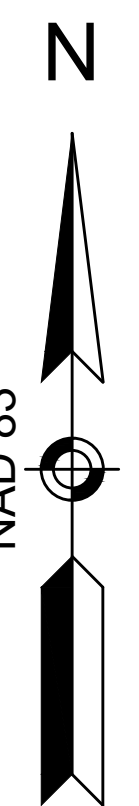
WATER SUPPLY ALTERATIONS
SEE DRAINAGE &
UTILITY PLANS

DRAINAGE DETAILS
SEE DRAINAGE &
UTILITY PLANS



CONTINUED ON
SHEET NO 27

CONTINUED ON
SHEET NO 29



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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	29	93

PROJECT FILE NO. 607825

CONSTRUCTION PLANS

N/F
TOWN OF WAREHAM
BK/PG 2182/173
MAP/LOT 44/1001
60 MINOT AVE

N/F
DEPOT REALTY TRUST
BK/PG 6847/267
MAP/LOT 44/12
46 MINOT AVE

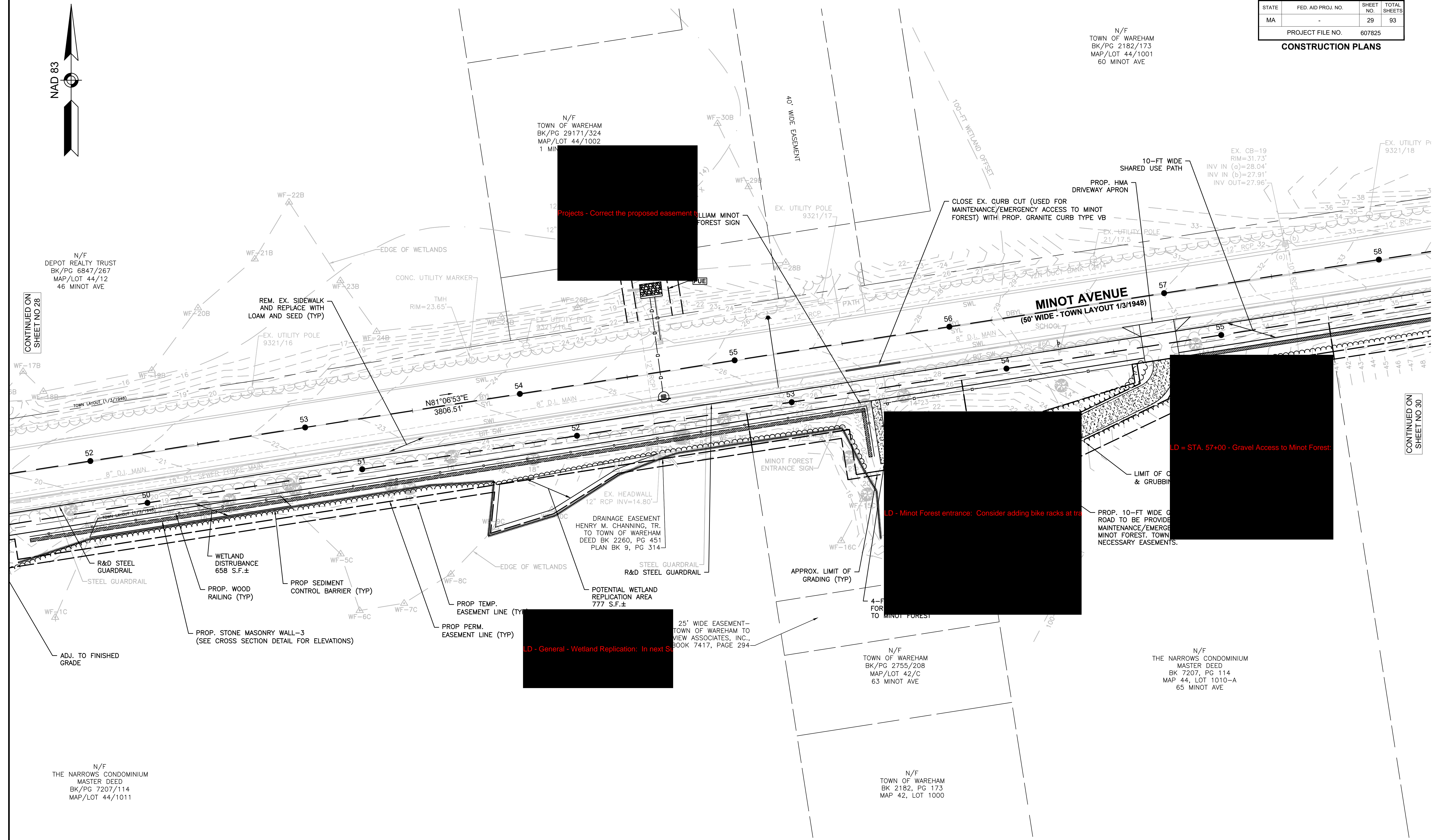
N/F
TOWN OF WAREHAM
BK/PG 29171/324
MAP/LOT 44/1002
1 MINOT AVE

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK/PG 7207, PG 114
MAP 44, LOT 1010-A
65 MINOT AVE

N/F
TOWN OF WAREHAM
BK/PG 2755/208
MAP/LOT 42/C
63 MINOT AVE

N/F
TOWN OF WAREHAM
BK 2182, PG 173
MAP 42, LOT 1000

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK/PG 7207/114
MAP/LOT 44/1011



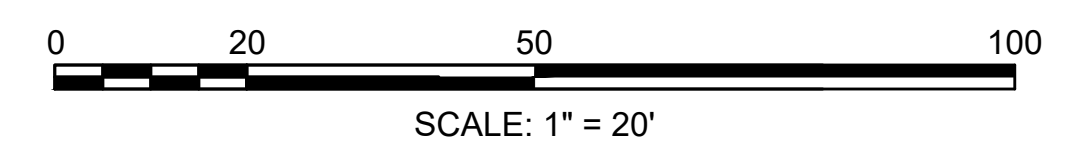
Projects - Correct the proposed easement to William Minot Forest sign

LD - Minot Forest entrance: Consider adding bike racks at this location

LD - STA. 57+00 - Gravel Access to Minot Forest

LD - General - Wetland Replication: In next sheet

- HIGHWAY GUARDRAIL DETAILS: NONE
- TRAFFIC SIGNAL CONDUIT: NONE
- WATER SUPPLY ALTERATIONS: SEE DRAINAGE & UTILITY PLANS
- DRAINAGE DETAILS: SEE DRAINAGE & UTILITY PLANS



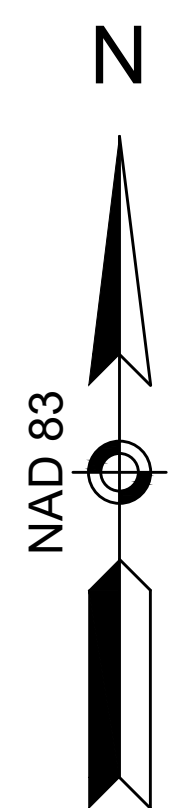
CONTINUED ON SHEET NO 28

CONTINUED ON SHEET NO 30

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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	30	93
PROJECT FILE NO. 607825			

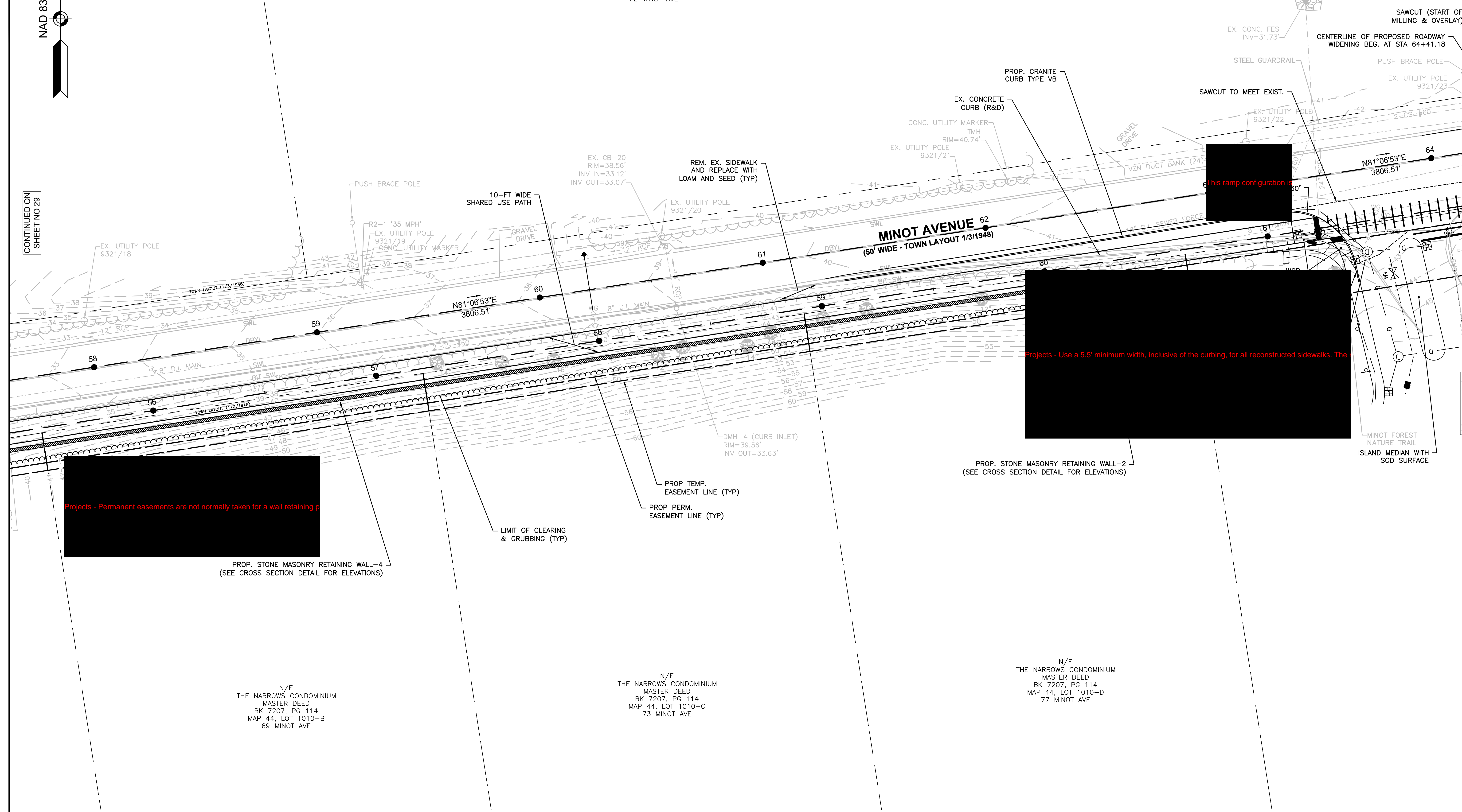
CONSTRUCTION PLANS



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

CONTINUED ON
SHEET NO 29

CONTINUED ON
SHEET NO 31



Projects - Permanent easements are not normally taken for a wall retaining p

Projects - Use a 5.5' minimum width, inclusive of the curbing, for all reconstructed sidewalks. The r

This ramp configuration is

[Redacted area]

[Redacted area]

PROP. STONE MASONRY RETAINING WALL-4
(SEE CROSS SECTION DETAIL FOR ELEVATIONS)

PROP. STONE MASONRY RETAINING WALL-2
(SEE CROSS SECTION DETAIL FOR ELEVATIONS)

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK 7207, PG 114
MAP 44, LOT 1010-B
69 MINOT AVE

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK 7207, PG 114
MAP 44, LOT 1010-C
73 MINOT AVE

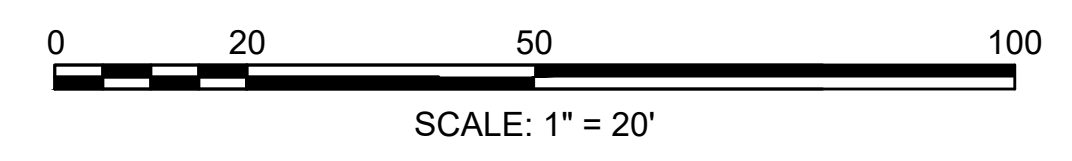
N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK 7207, PG 114
MAP 44, LOT 1010-D
77 MINOT AVE

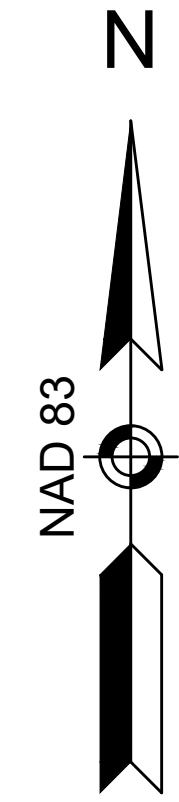
HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE &
UTILITY PLANS

DRAINAGE DETAILS
SEE DRAINAGE &
UTILITY PLANS





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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	31	93

PROJECT FILE NO. 607825

CONSTRUCTION PLANS

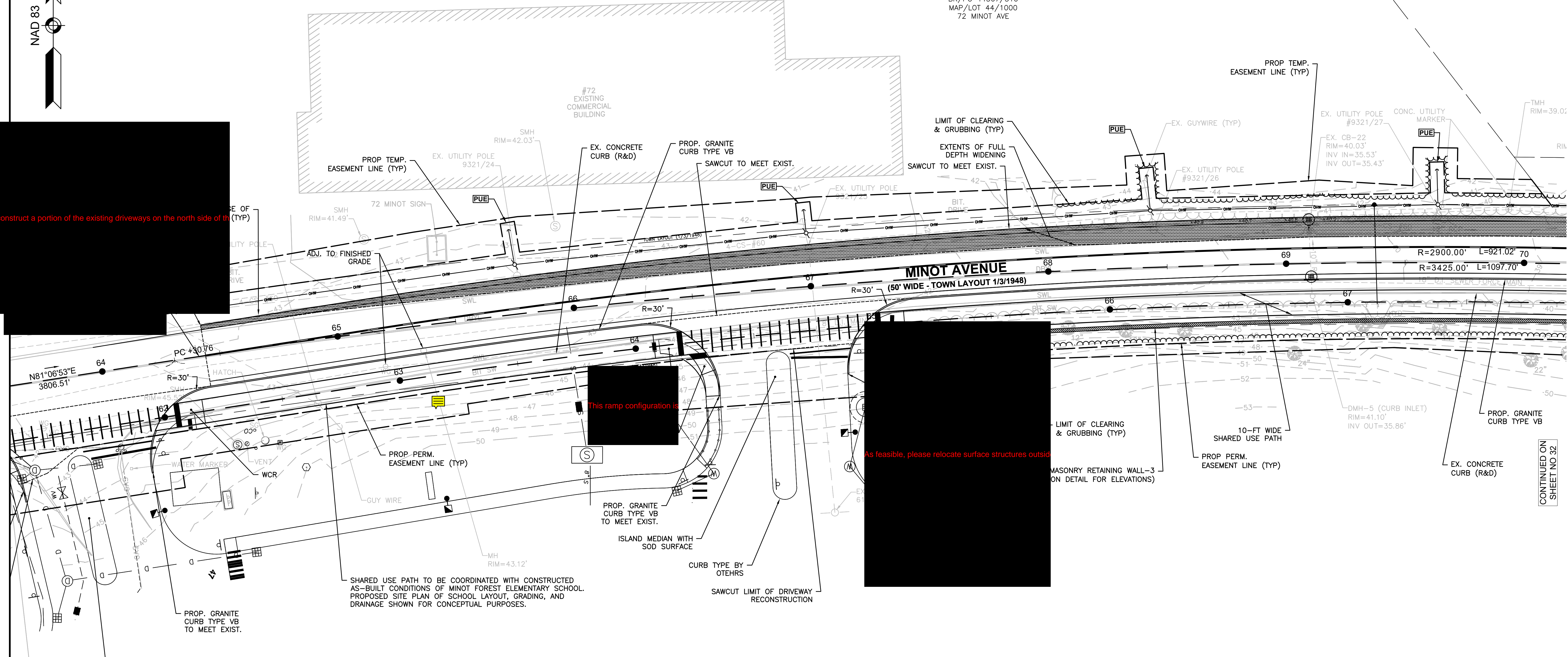
N/F
GIANCOLA PROPERTIES
MINOT LLC
BK/PG 44367/310
MAP/LOT 44/1000
72 MINOT AVE

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

Projects - Reconstruct a portion of the existing driveways on the north side of the

This ramp configuration is

As feasible, please relocate surface structures outside

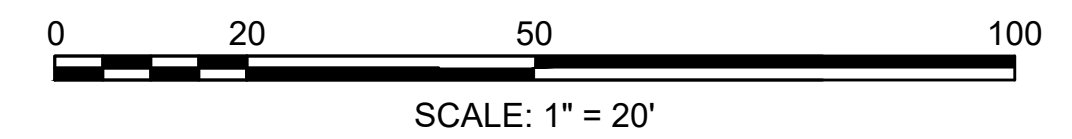


HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE &
UTILITY PLANS

DRAINAGE DETAILS
SEE DRAINAGE &
UTILITY PLANS

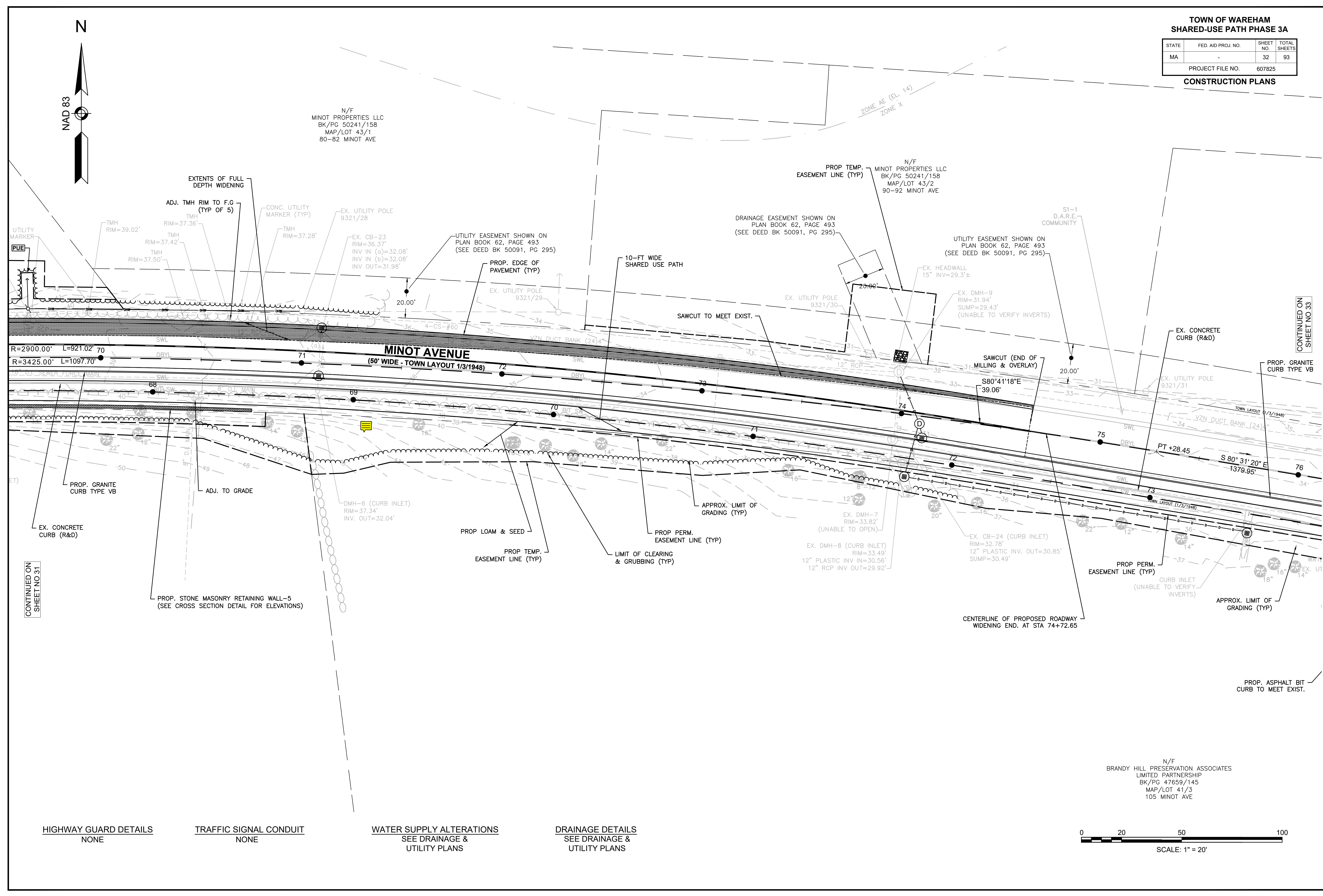
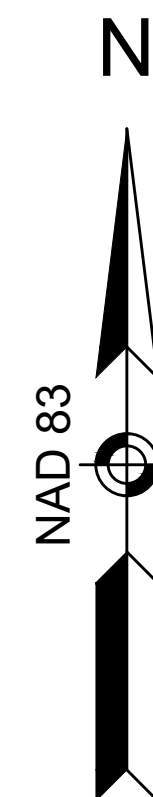


CONTINUED ON
SHEET NO 32

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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	32	93
PROJECT FILE NO.		607825	

CONSTRUCTION PLANS



CONTINUED ON SHEET NO 31

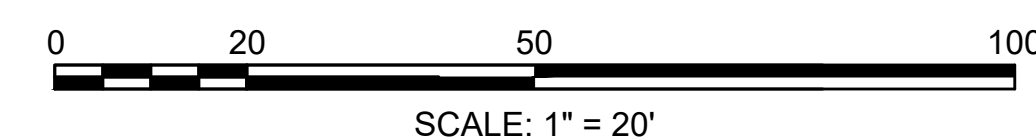
CONTINUED ON SHEET NO 33

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE &
UTILITY PLANS

DRAINAGE DETAILS
SEE DRAINAGE &
UTILITY PLANS



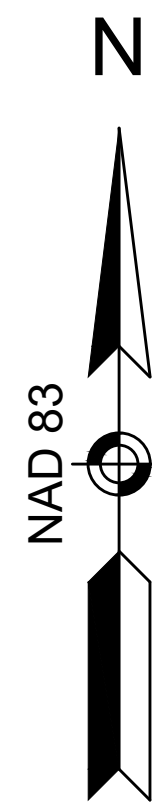
N/F
BRANDY HILL PRESERVATION ASSOCIATES
LIMITED PARTNERSHIP
BK/PG 47659/145
MAP/LOT 41/3
105 MINOT AVE

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

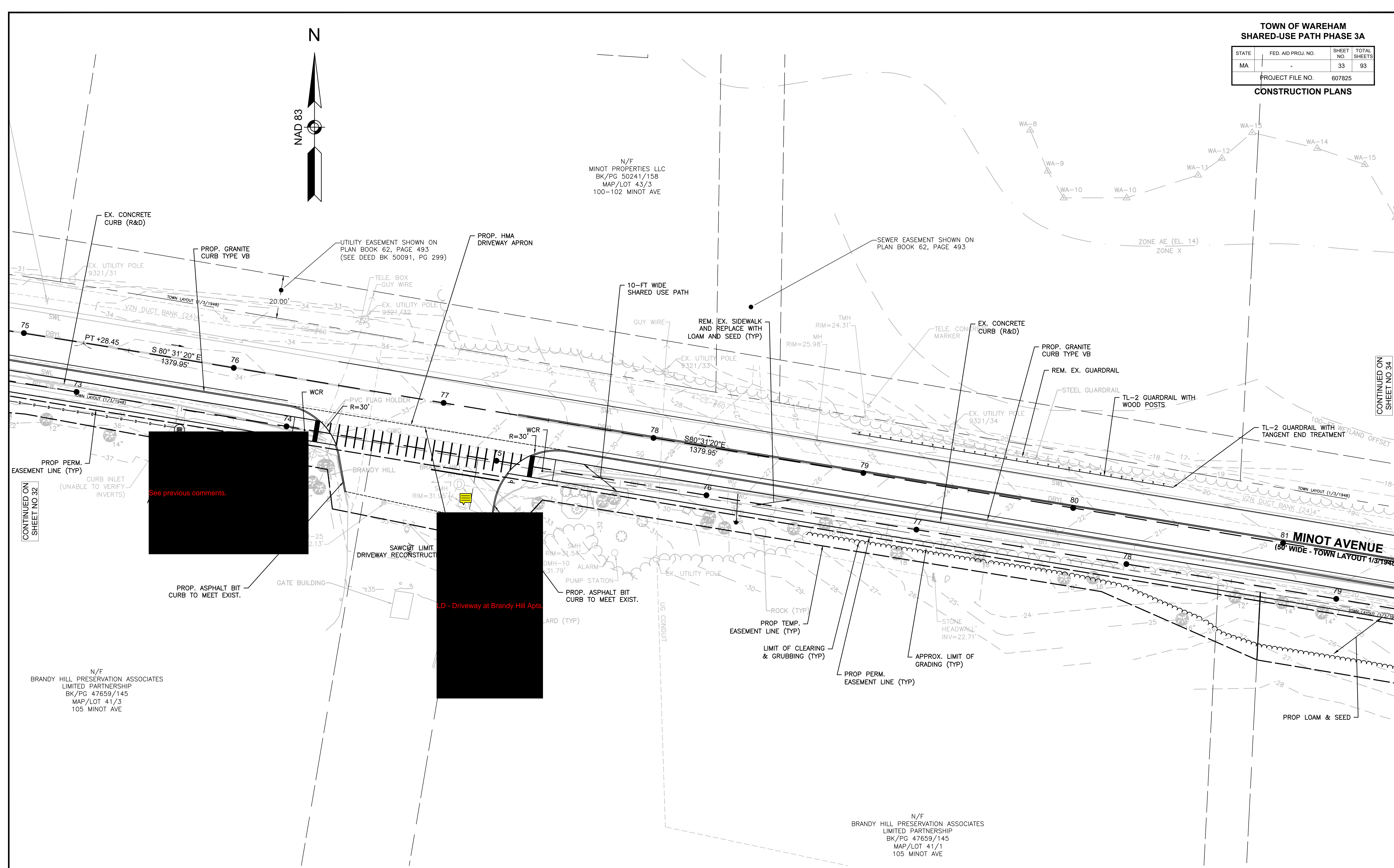
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	33	93

PROJECT FILE NO. 607825

CONSTRUCTION PLANS



N/F
MINOT PROPERTIES LLC
BK/PG 50241/158
MAP/LOT 43/3
100-102 MINOT AVE



See previous comments.

LD - Driveway at Brandy Hill Apts

CONTINUED ON
SHEET NO 32

CONTINUED ON
SHEET NO 34

N/F
BRANDY HILL PRESERVATION ASSOCIATES
LIMITED PARTNERSHIP
BK/PG 47659/145
MAP/LOT 41/3
105 MINOT AVE

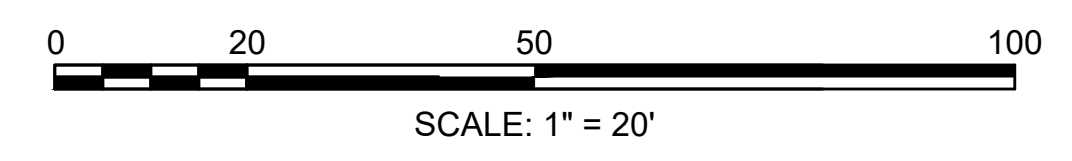
N/F
BRANDY HILL PRESERVATION ASSOCIATES
LIMITED PARTNERSHIP
BK/PG 47659/145
MAP/LOT 41/1
105 MINOT AVE

HIGHWAY GUARD DETAILS
TL2: STA 78+91.65 17.2' LT
TO STA 80+44.69 17.3' LT

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE &
UTILITY PLANS

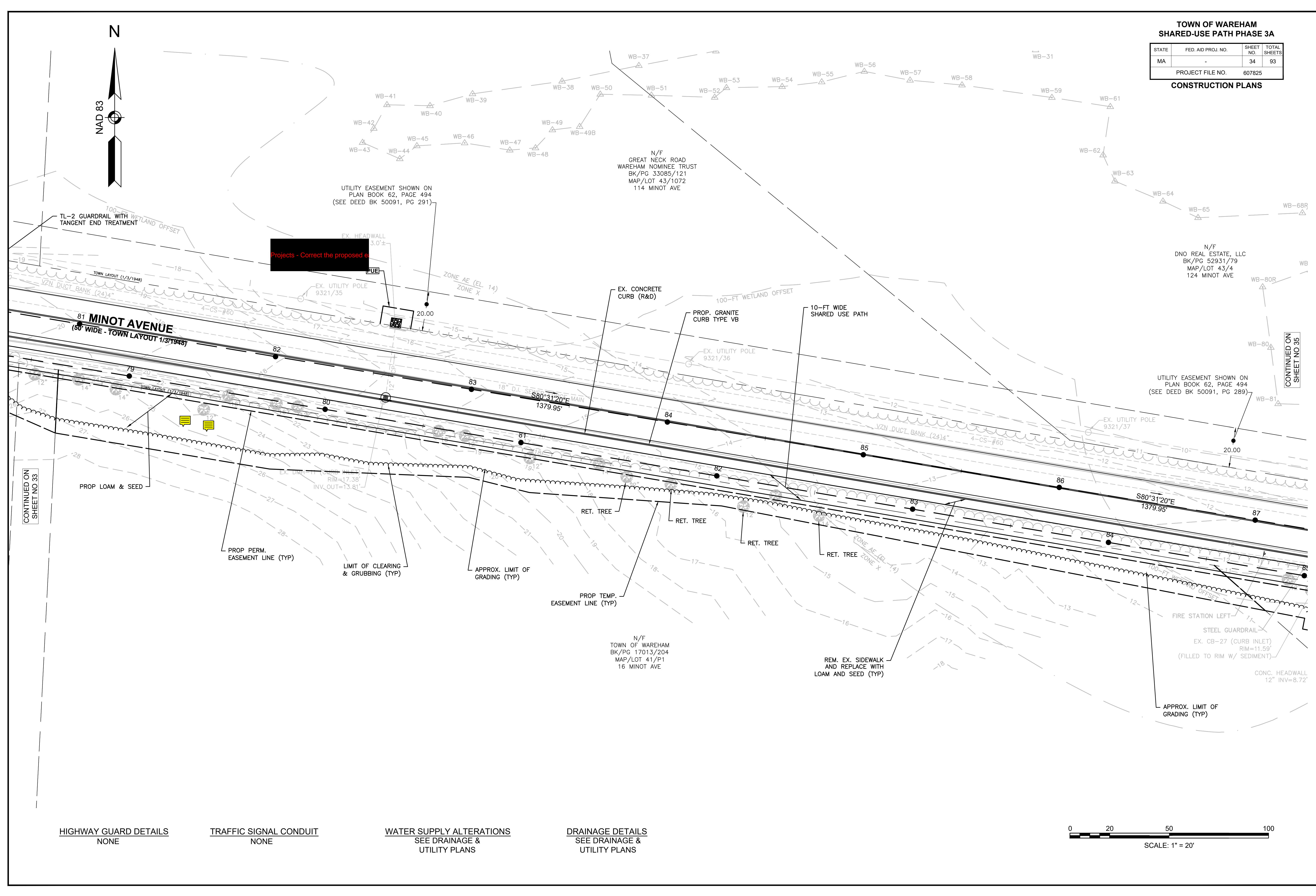
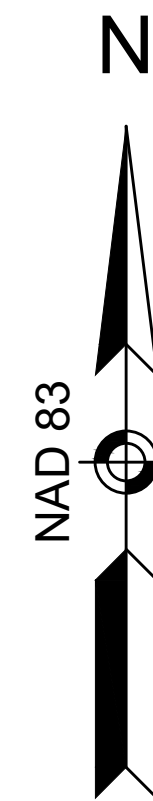
DRAINAGE DETAILS
SEE DRAINAGE &
UTILITY PLANS



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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	34	93
PROJECT FILE NO. 607825			

CONSTRUCTION PLANS



Projects - Correct the proposed easement line

CONTINUED ON SHEET NO 35

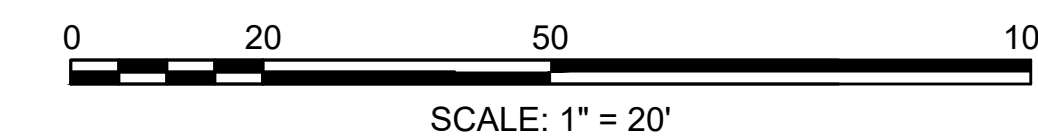
CONTINUED ON SHEET NO 33

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE & UTILITY PLANS

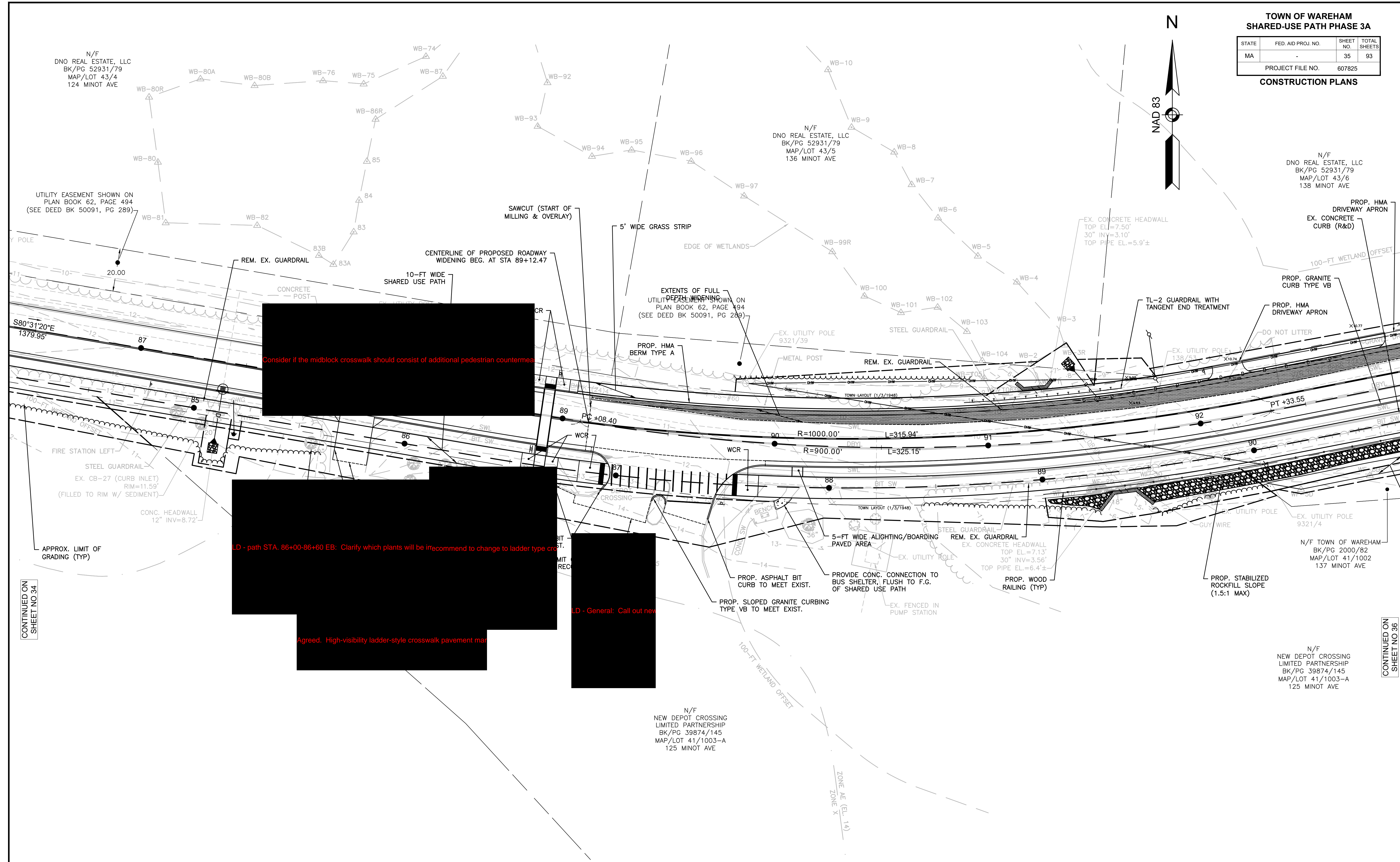
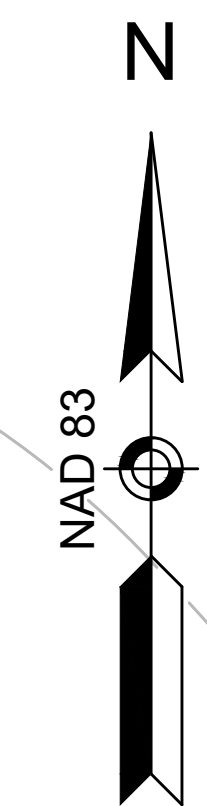
DRAINAGE DETAILS
SEE DRAINAGE & UTILITY PLANS



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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	35	93
PROJECT FILE NO. 607825			

CONSTRUCTION PLANS



Consider if the midblock crosswalk should consist of additional pedestrian countermeasures.

LD - path STA. 86+00-86+60 EB: Clarify which plants will be recommended to change to ladder type crosswalk.

LD - General: Call out new.

Agreed. High-visibility ladder-style crosswalk pavement markings.

CONTINUED ON SHEET NO 34

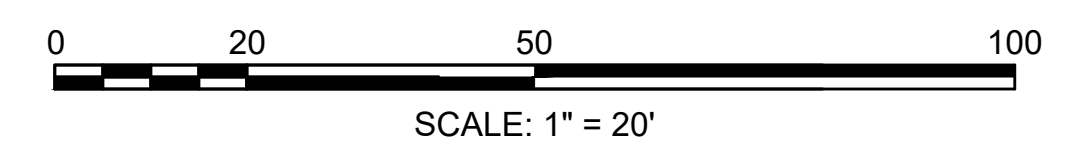
CONTINUED ON SHEET NO 36

HIGHWAY GUARD DETAILS
TL2: STA 90+89.50' 20.5 LT
TO STA 91+65.41 21.5' LT

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
SEE DRAINAGE & UTILITY PLANS

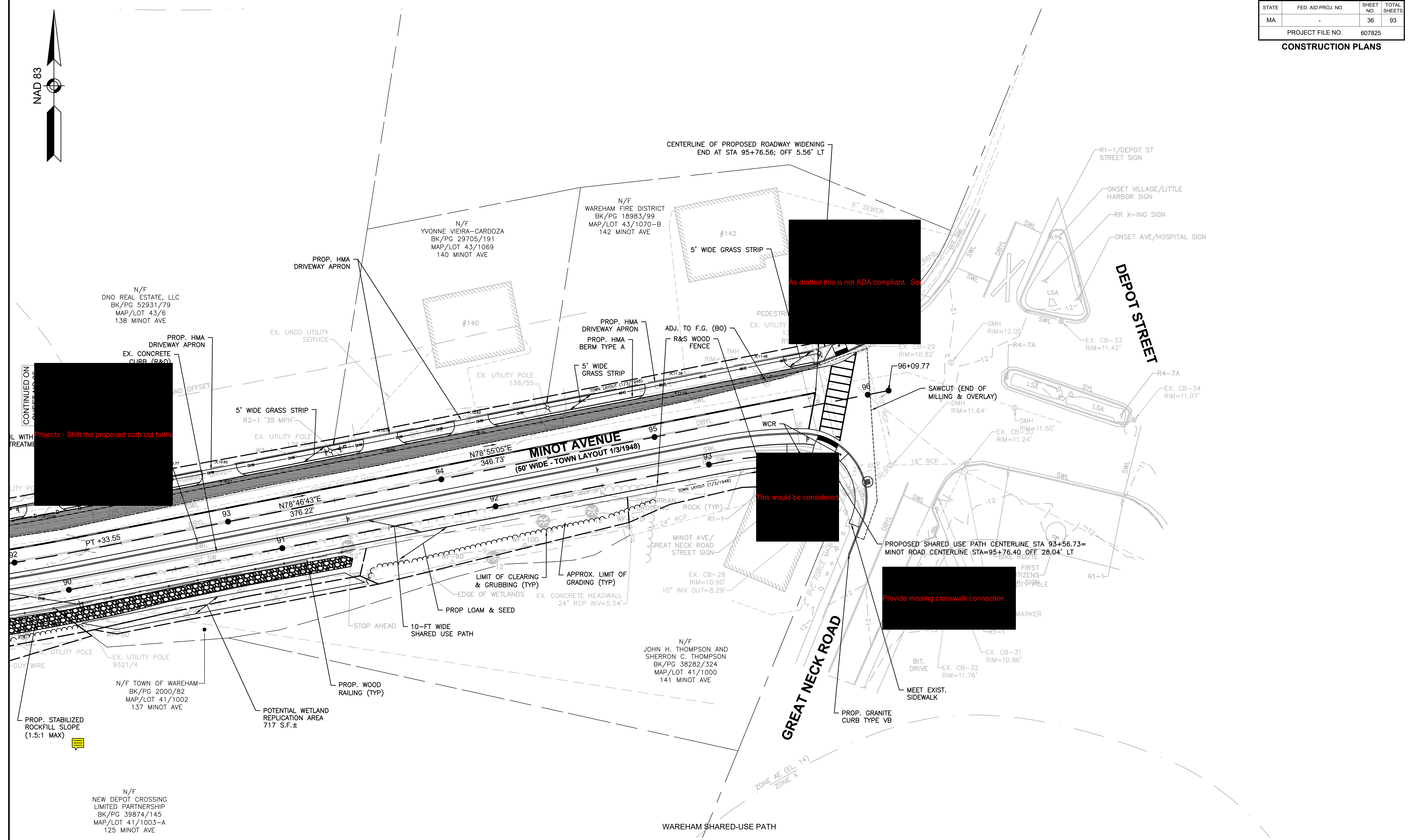
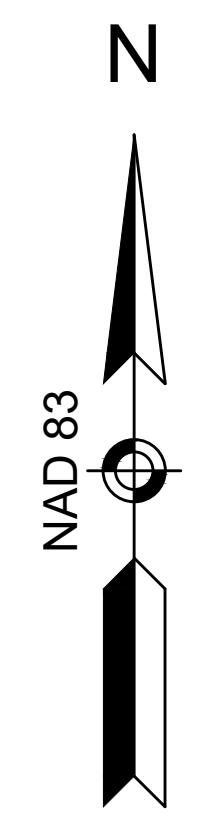
DRAINAGE DETAILS
SEE DRAINAGE & UTILITY PLANS



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	36	93
PROJECT FILE NO.		607825	

CONSTRUCTION PLANS



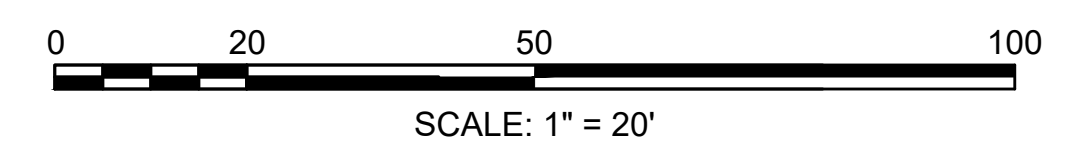
Projects - Shift the proposed curb cut further

As drafted this is not ADA compliant. See

This would be considered

Provide missing crosswalk connection.

- HIGHWAY GUARD DETAILS: NONE
- TRAFFIC SIGNAL CONDUIT: NONE
- WATER SUPPLY ALTERATIONS: SEE DRAINAGE & UTILITY PLANS
- DRAINAGE DETAILS: SEE DRAINAGE & UTILITY PLANS

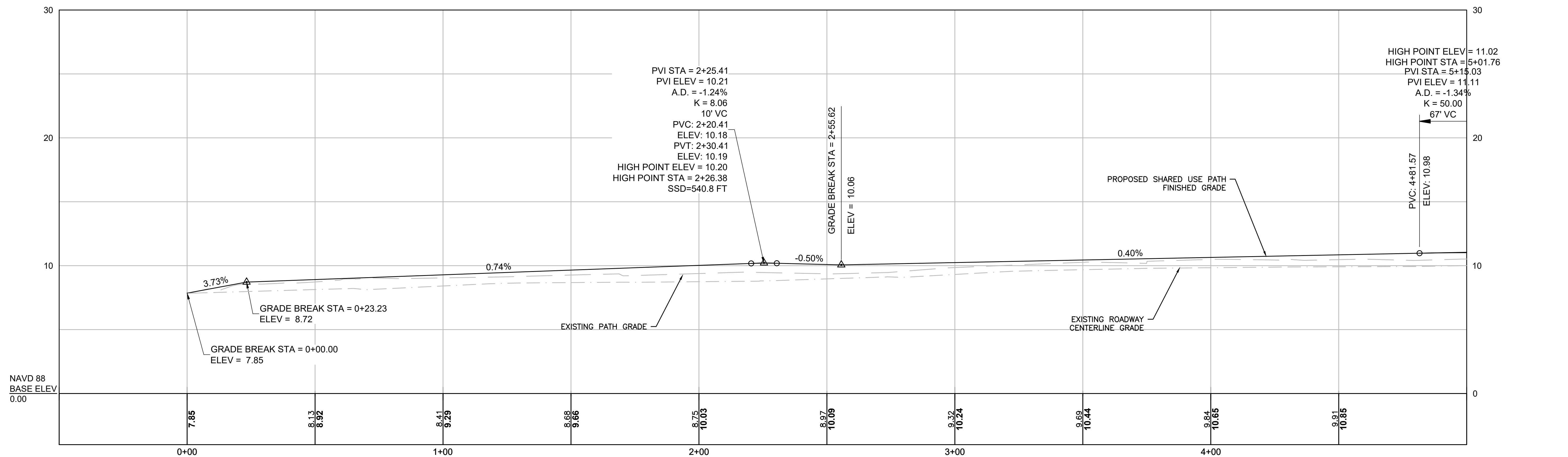


TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	37	93
PROJECT FILE NO.		607825	

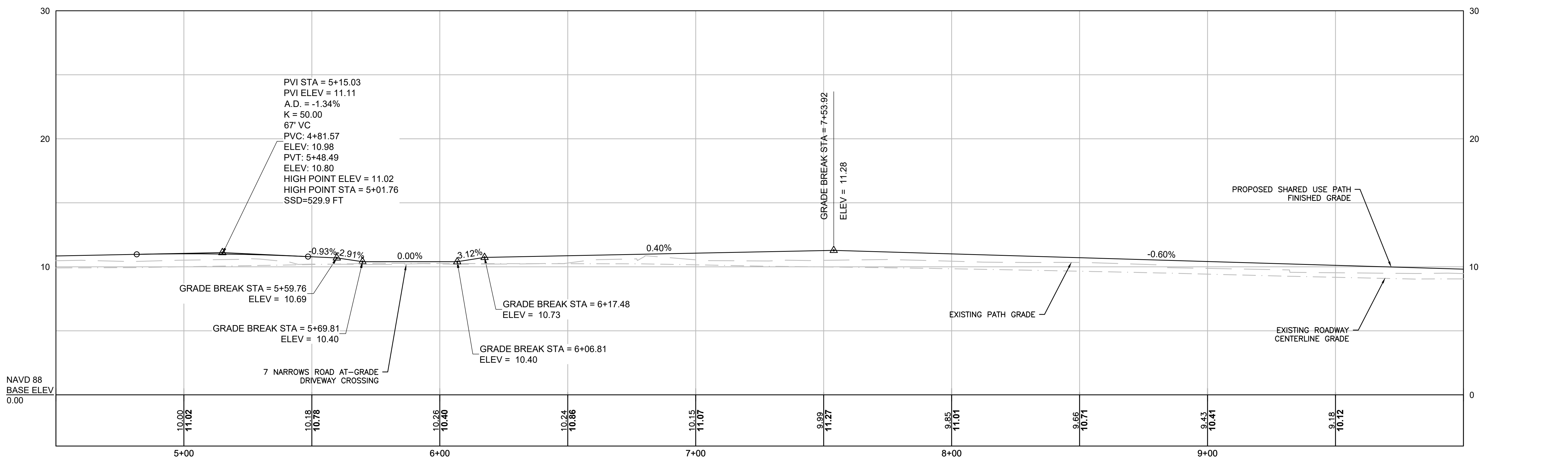
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED BELOW

SHARED USE PATH CENTERLINE



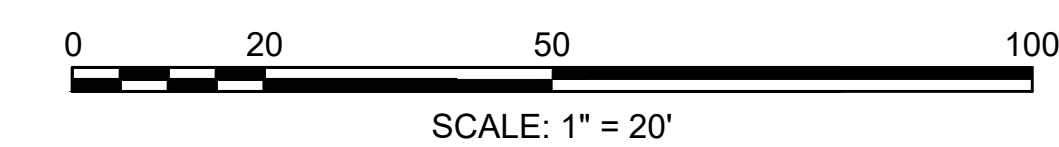
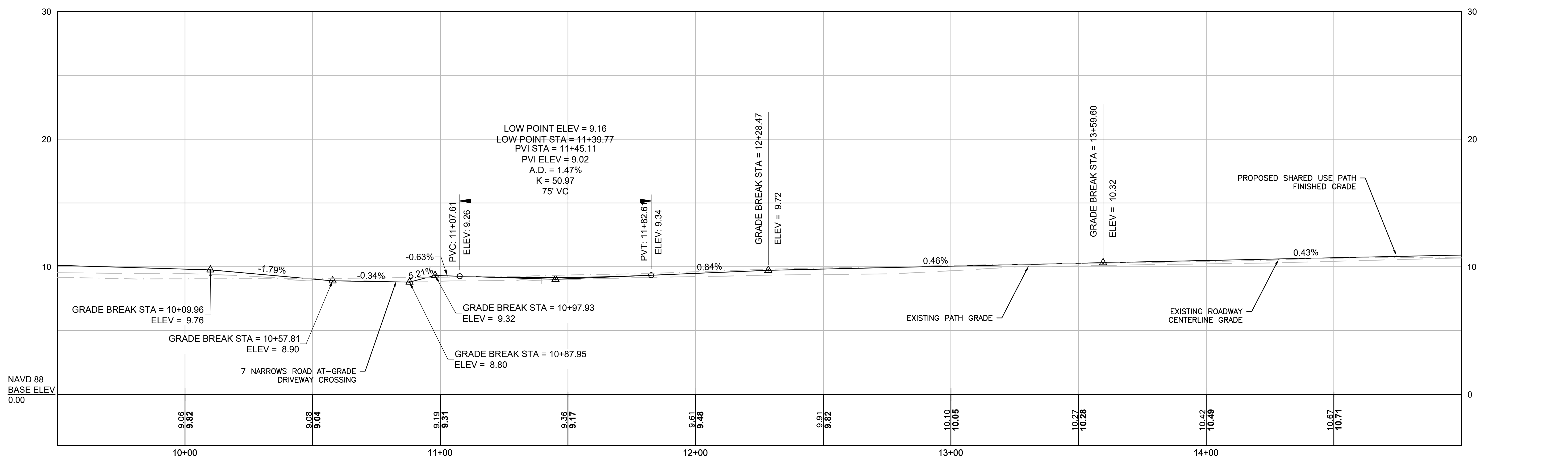
CONTINUED ON SHEET NO 34

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

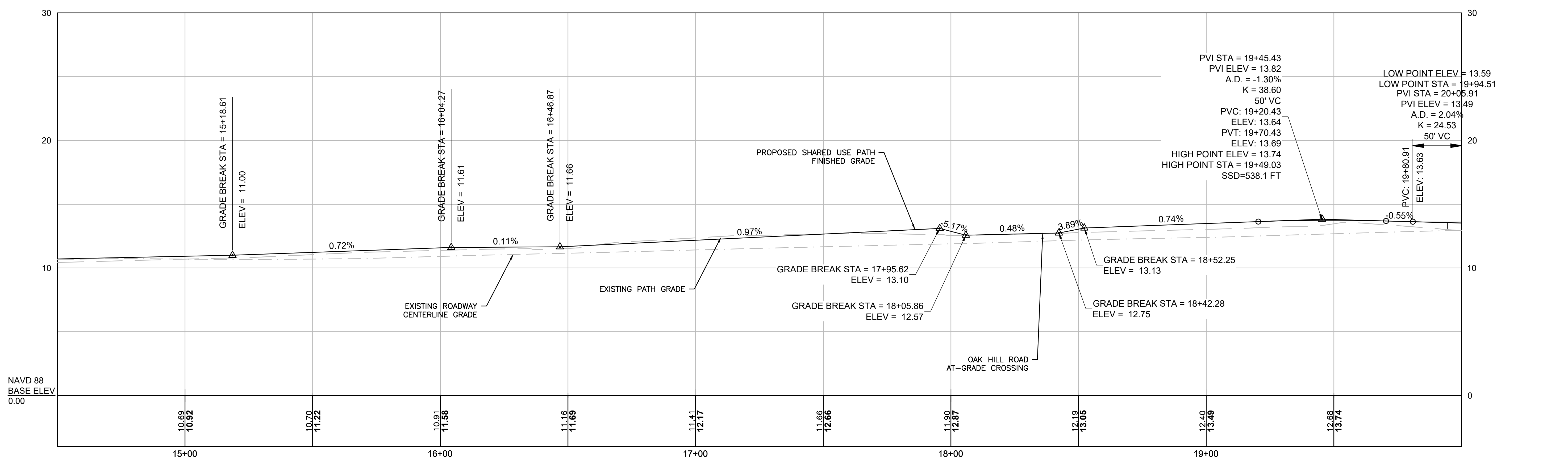
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	38	93
PROJECT FILE NO. 607825			

CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



SHARED USE PATH CENTERLINE



CONTINUED
BELOW

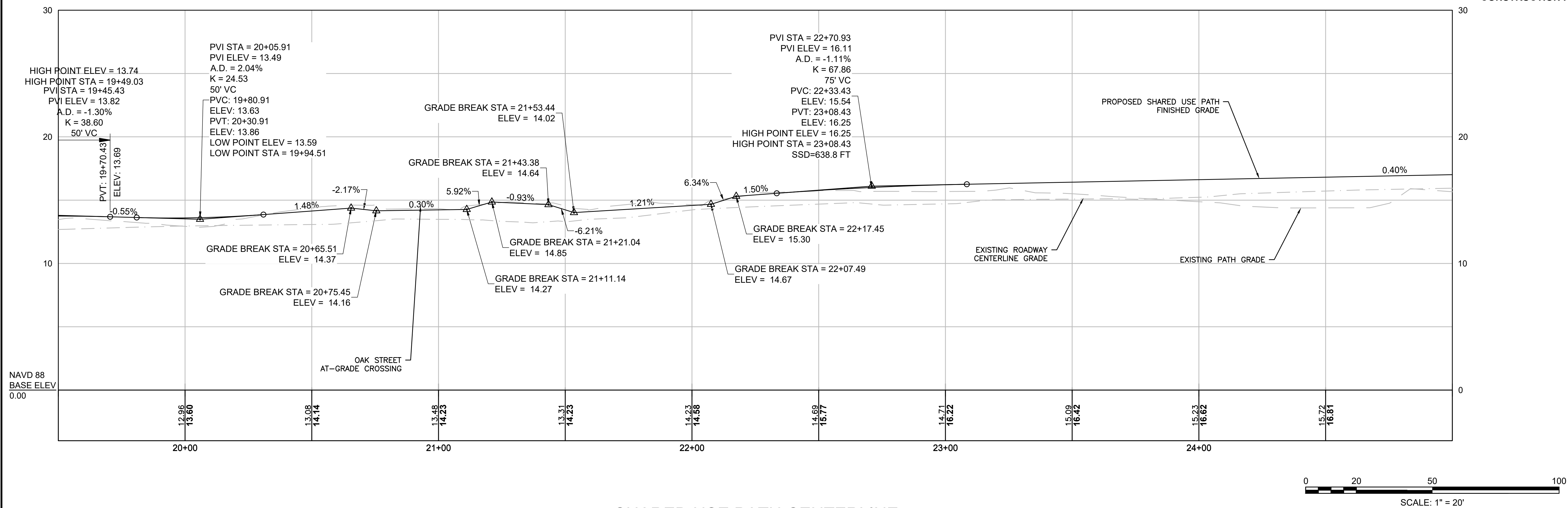
CONTINUED ON
SHEET NO 35

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	39	93
PROJECT FILE NO.		607825	

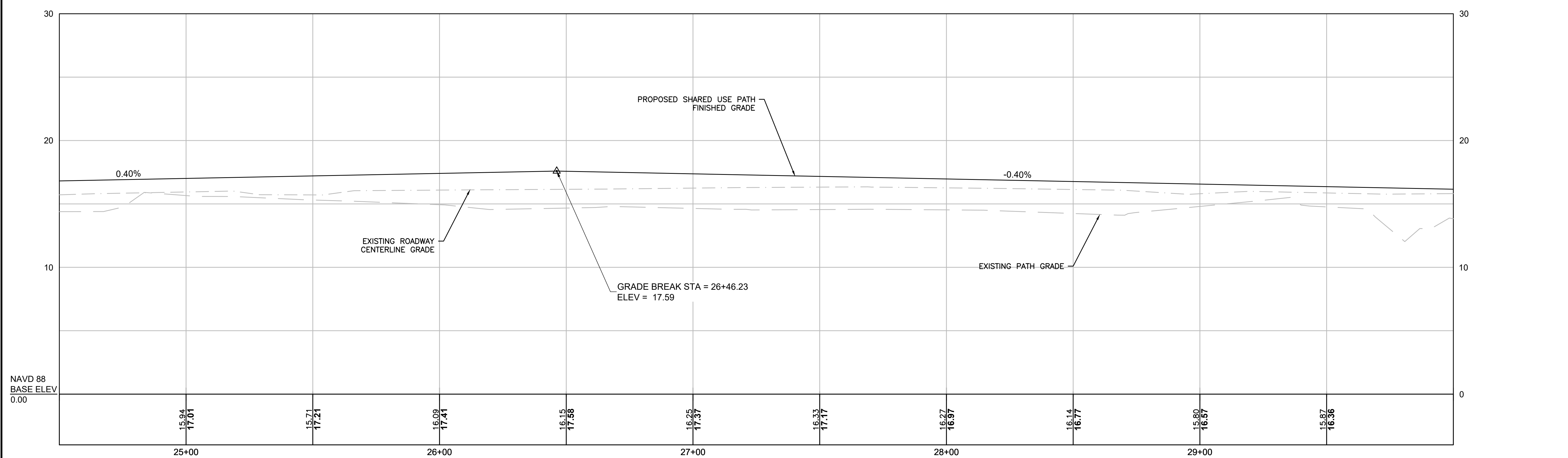
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED BELOW

SHARED USE PATH CENTERLINE



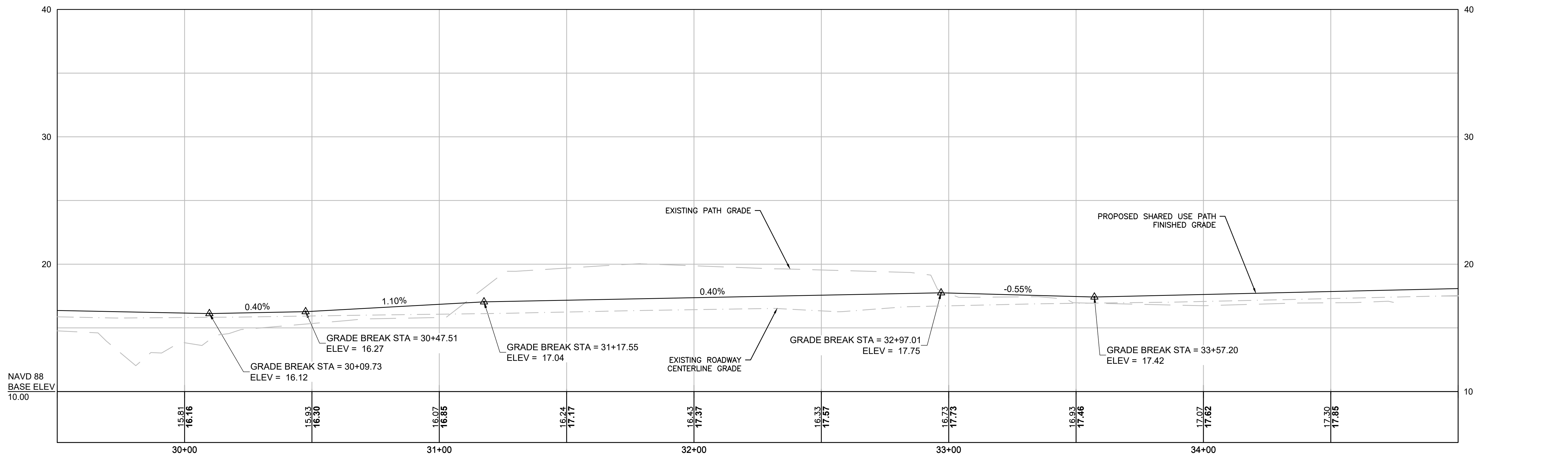
CONTINUED ON SHEET NO 38

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	40	93
PROJECT FILE NO.		607825	

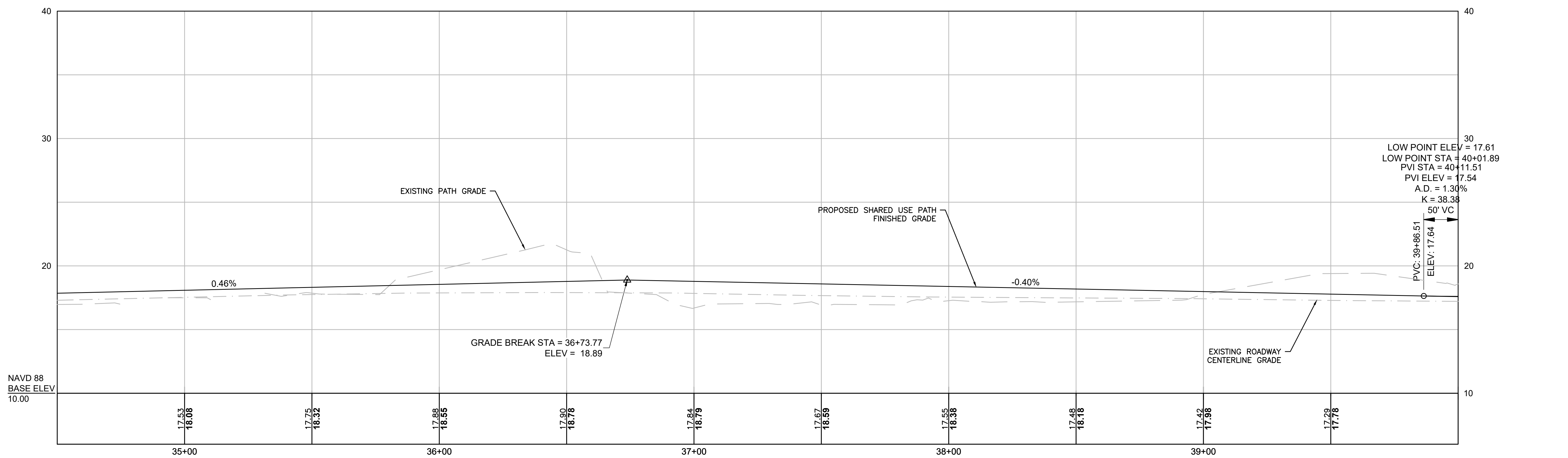
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED
BELOW

SHARED USE PATH CENTERLINE



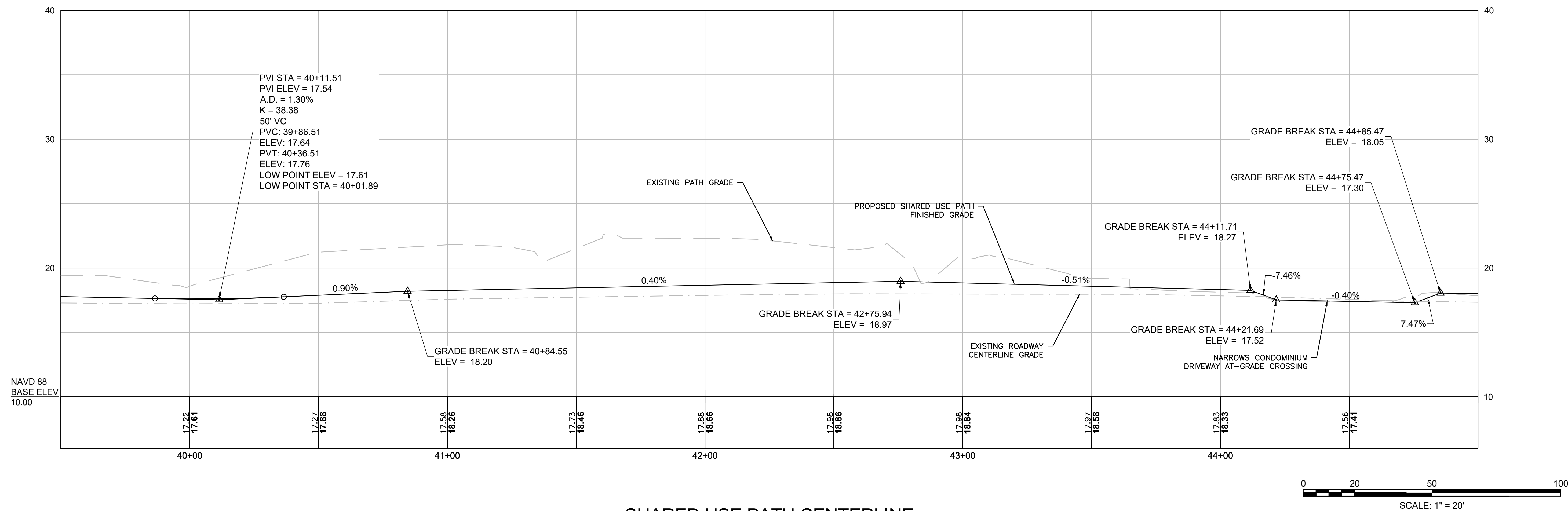
CONTINUED ON
SHEET NO 37

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	41	93
PROJECT FILE NO.		607825	

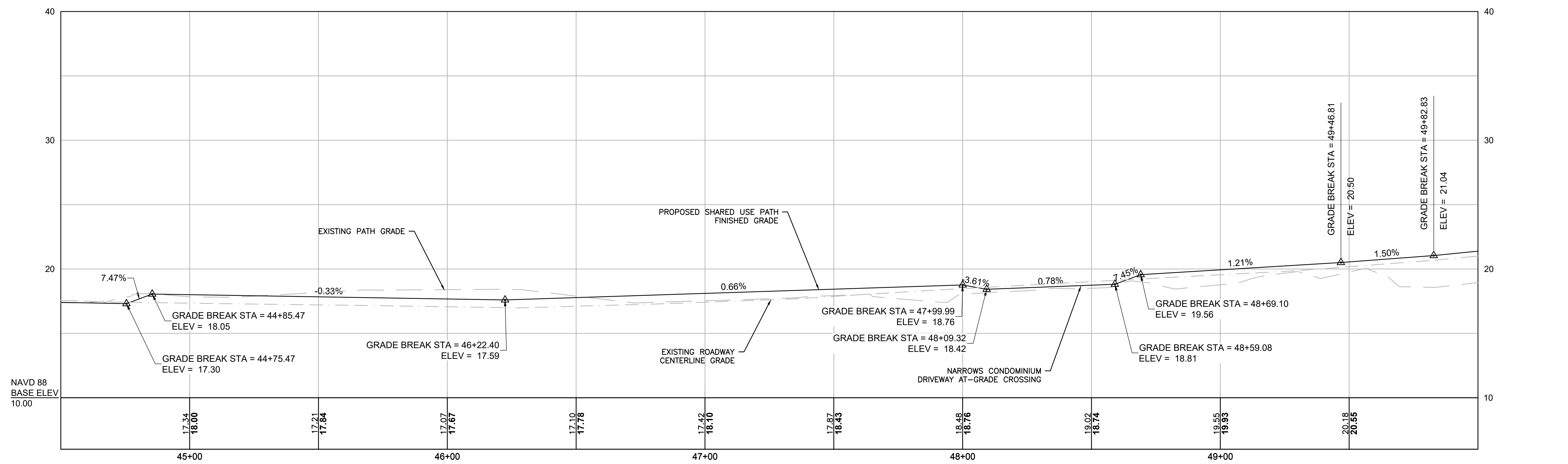
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED BELOW

SHARED USE PATH CENTERLINE



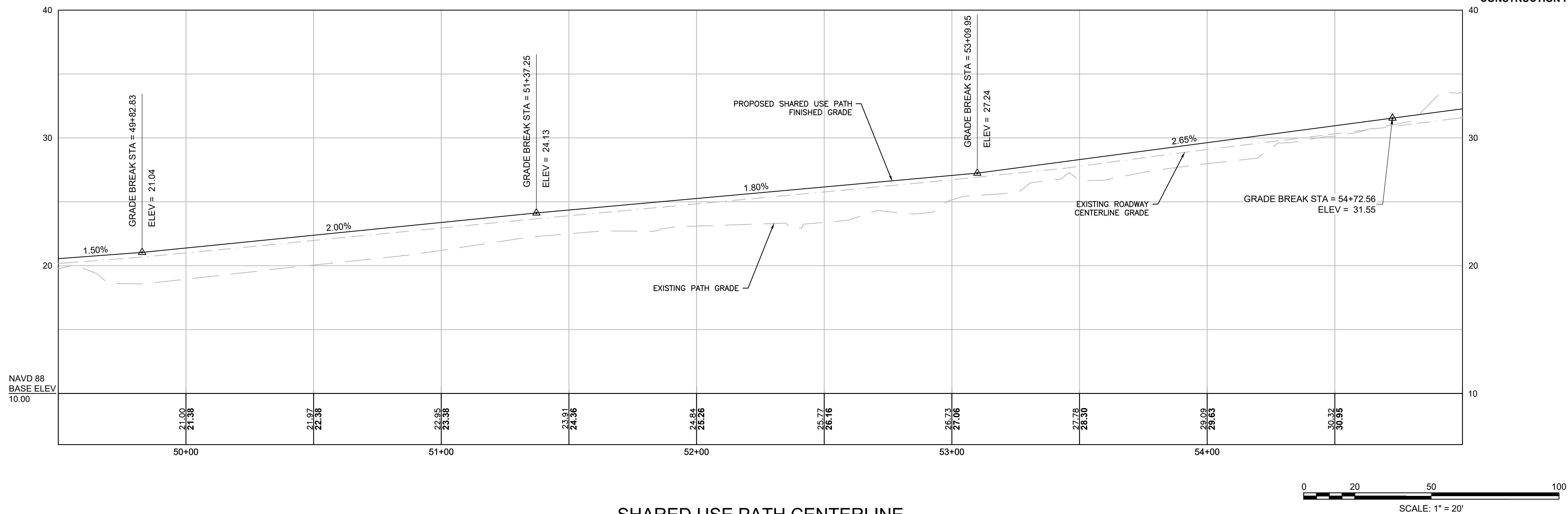
CONTINUED ON SHEET NO 38

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	42	93
PROJECT FILE NO.		607825	

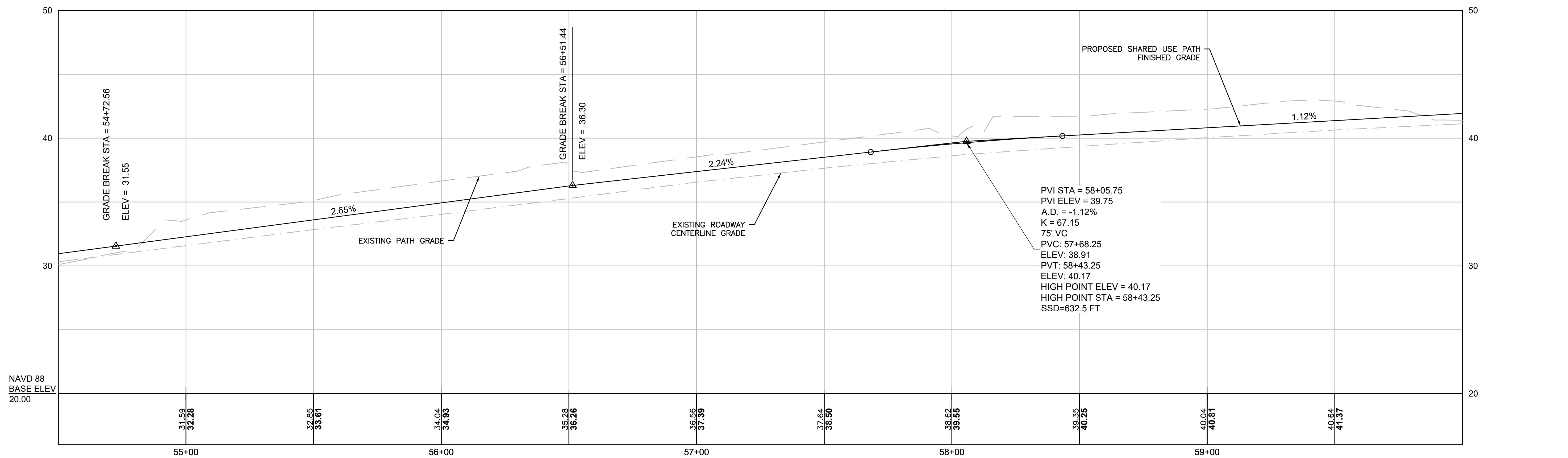
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED BELOW

SHARED USE PATH CENTERLINE



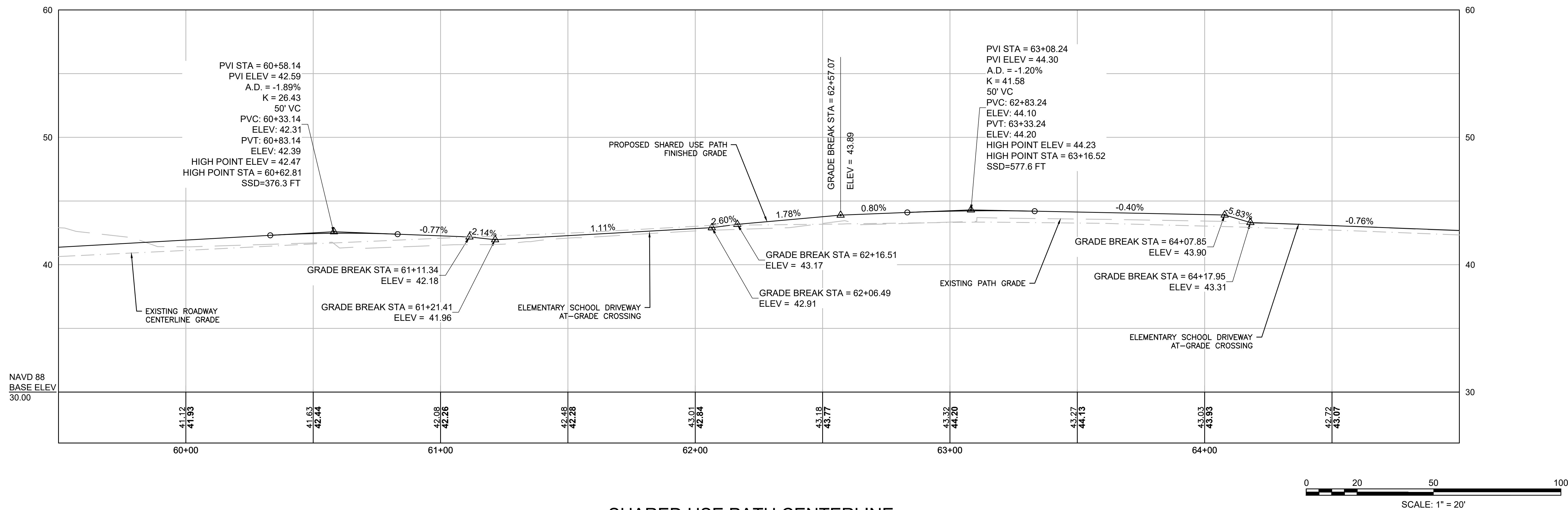
CONTINUED ON SHEET NO 39

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	43	93
PROJECT FILE NO.		607825	

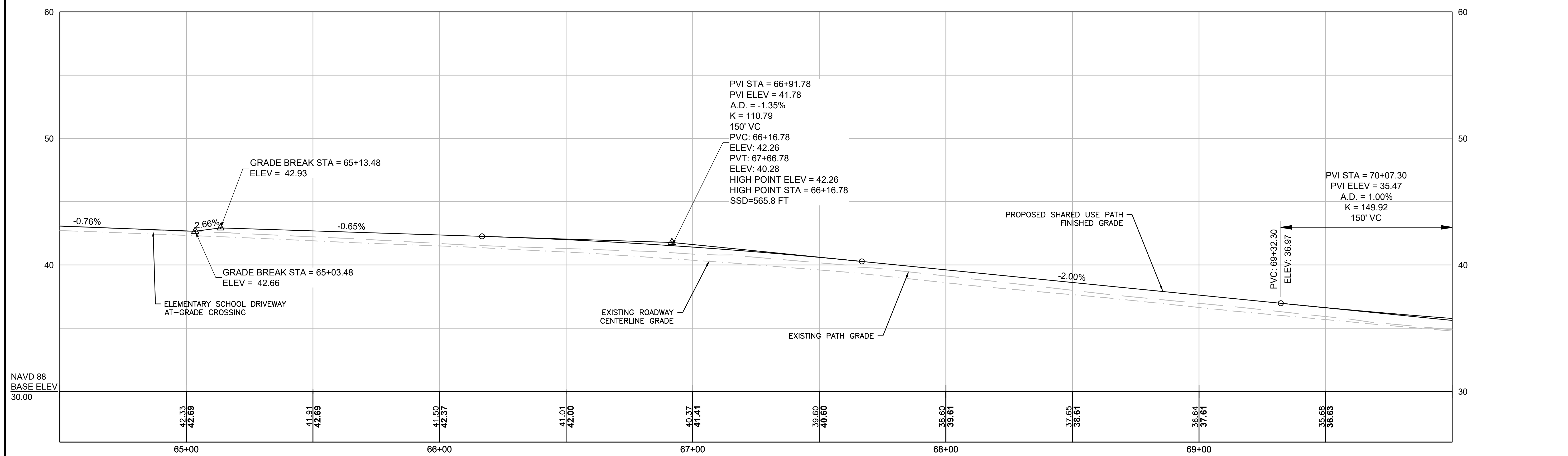
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED BELOW

SHARED USE PATH CENTERLINE



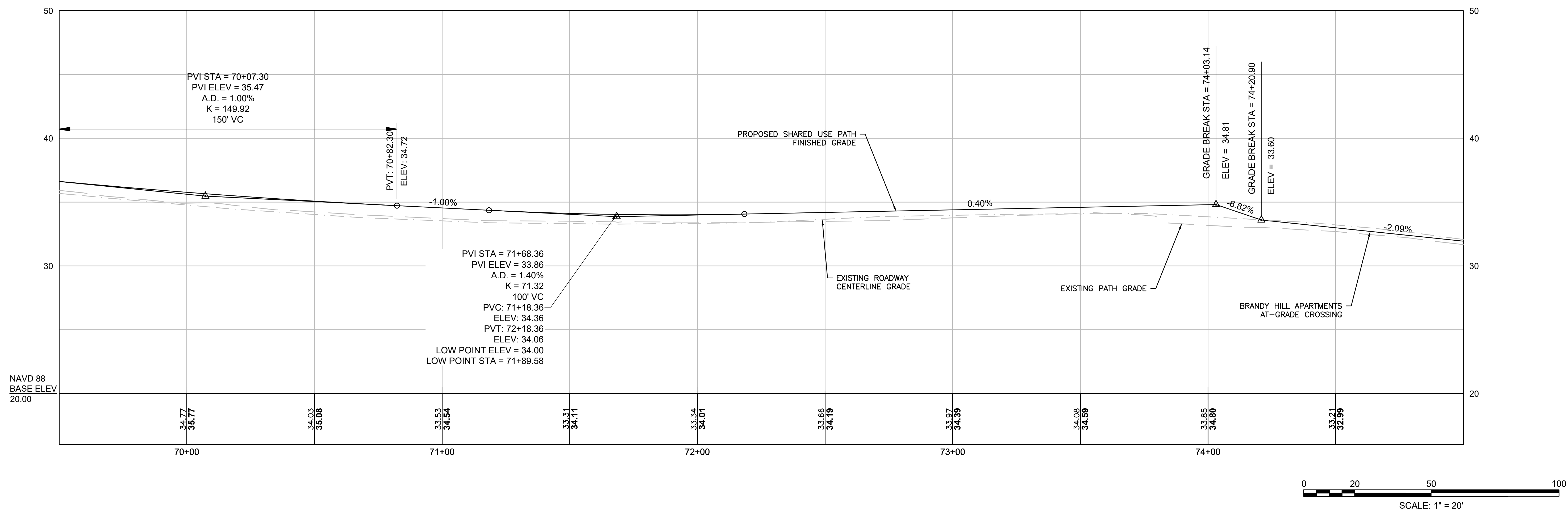
CONTINUED ON SHEET NO 40

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	44	93
PROJECT FILE NO.		607825	

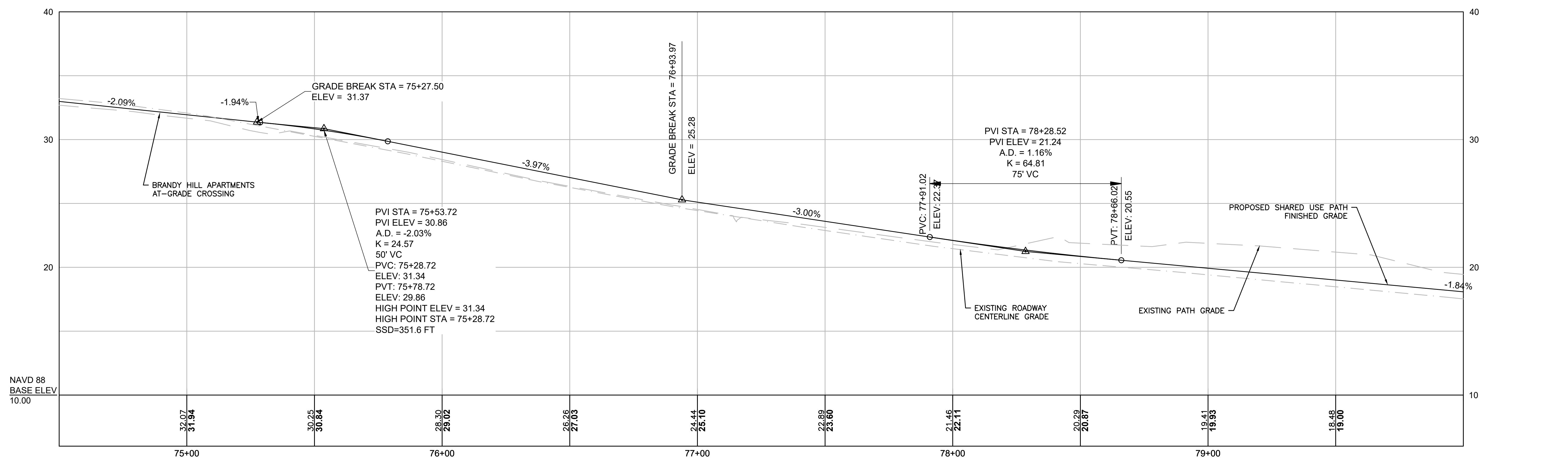
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED
BELOW

SHARED USE PATH CENTERLINE



CONTINUED ON
SHEET NO 41

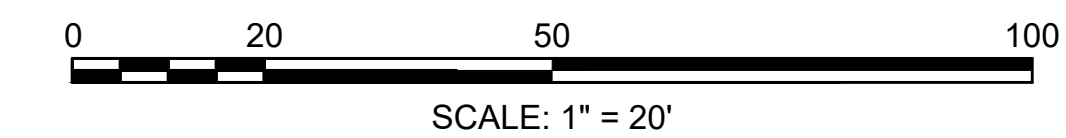
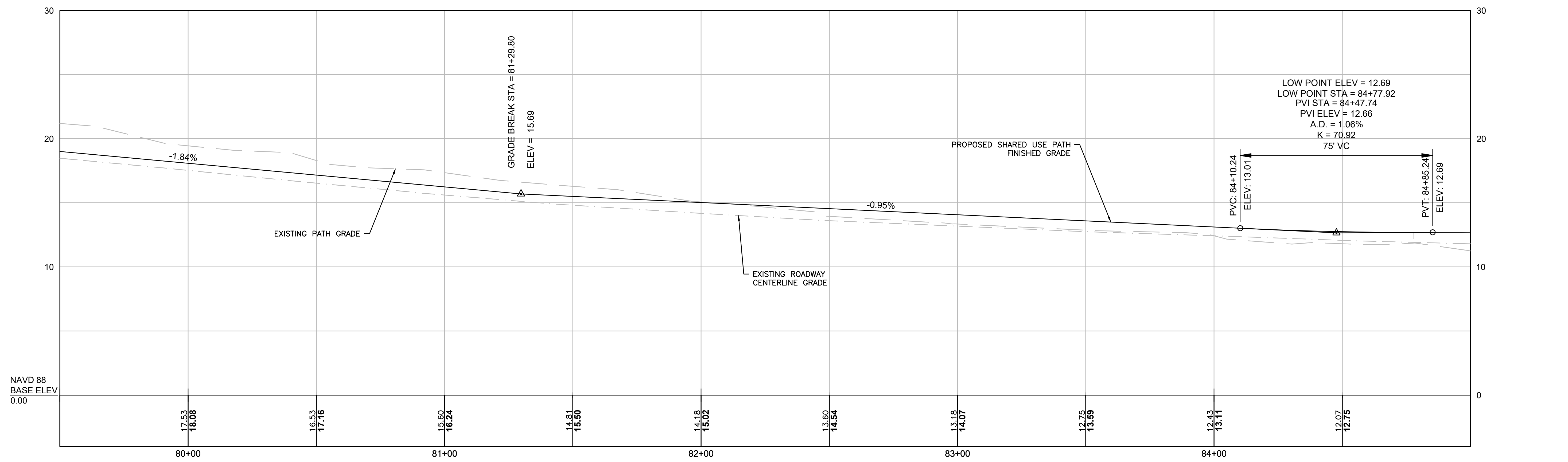
TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	45	93

PROJECT FILE NO. 607825

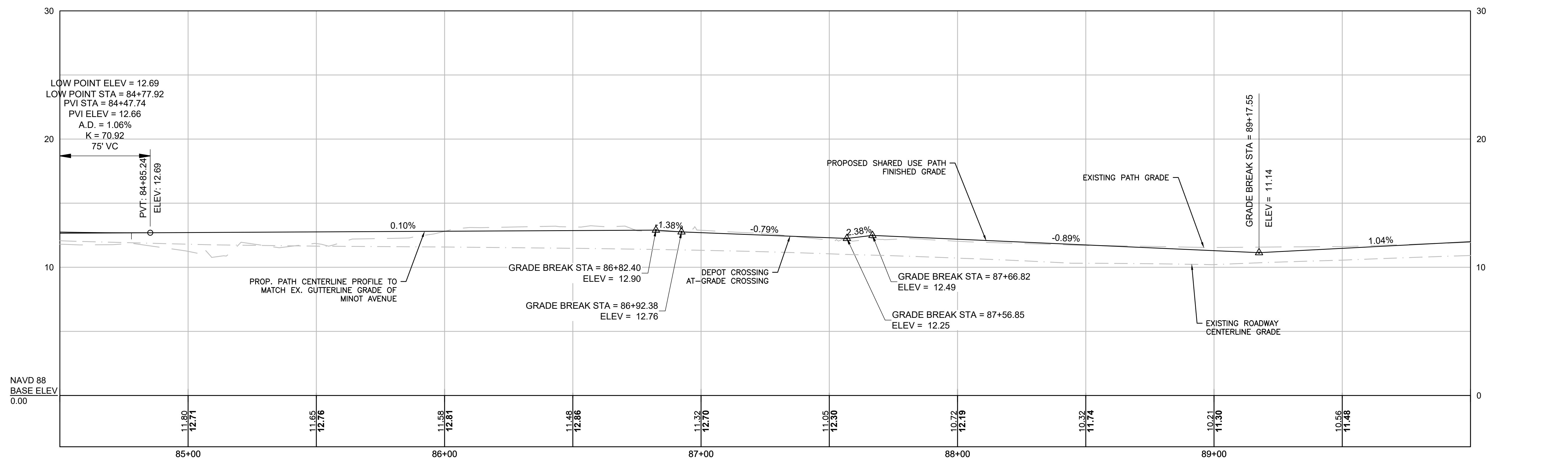
CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



CONTINUED BELOW

SHARED USE PATH CENTERLINE



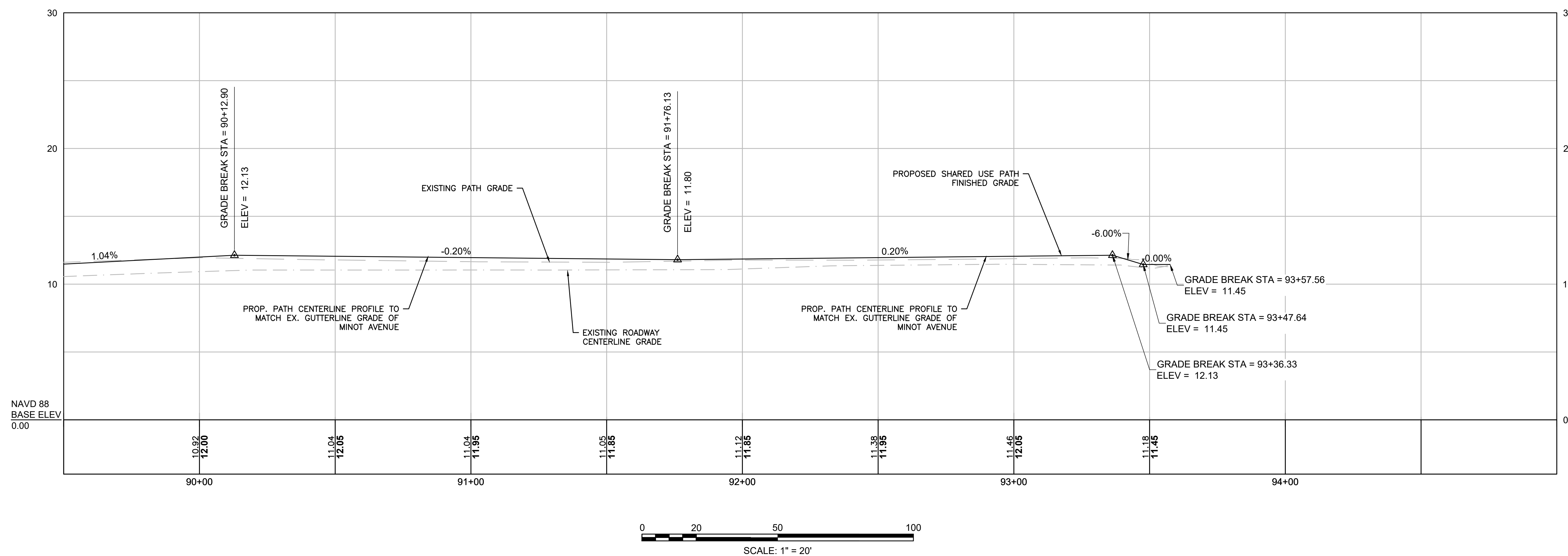
CONTINUED ON SHEET NO 42

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	46	93
PROJECT FILE NO.		607825	

CONSTRUCTION PROFILE

SHARED USE PATH CENTERLINE



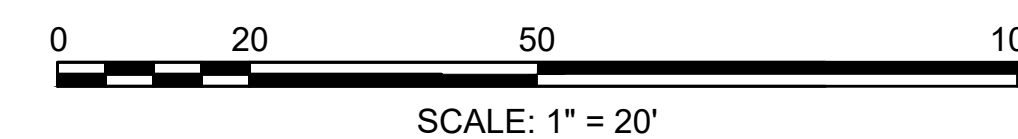
Projects - Include profiles for Sta. 14+38± to 22+14± and 89+12± to 96+01±, where the roadway is proposed to be st

Projects - The labeled baseline stationing on the profile does not coincide with the roadway baseline on the Plans. Th

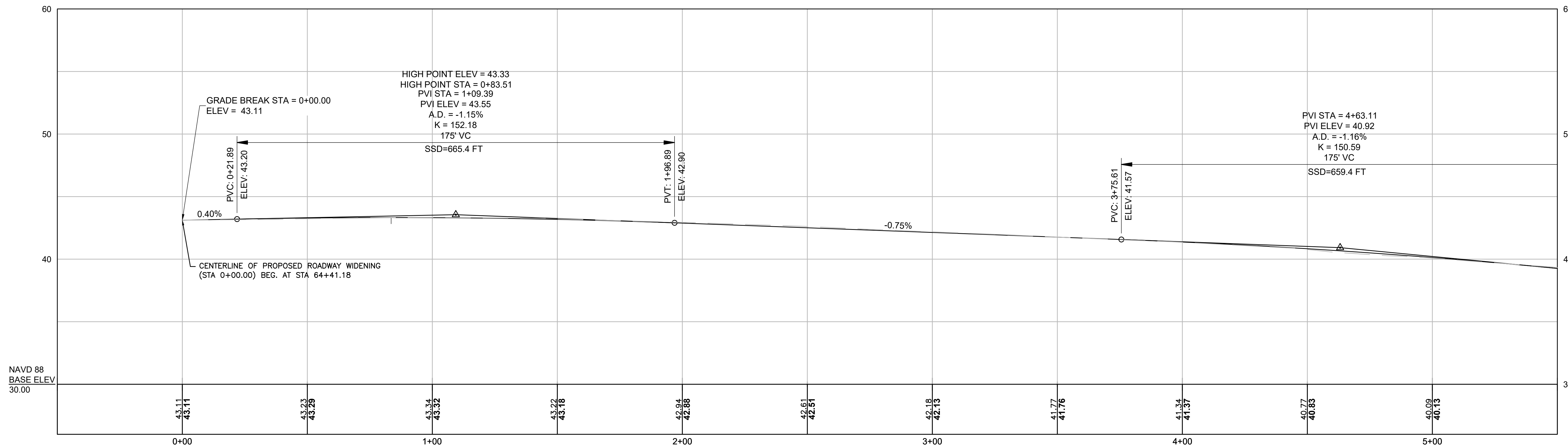
TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	47	93
PROJECT FILE NO.		607825	

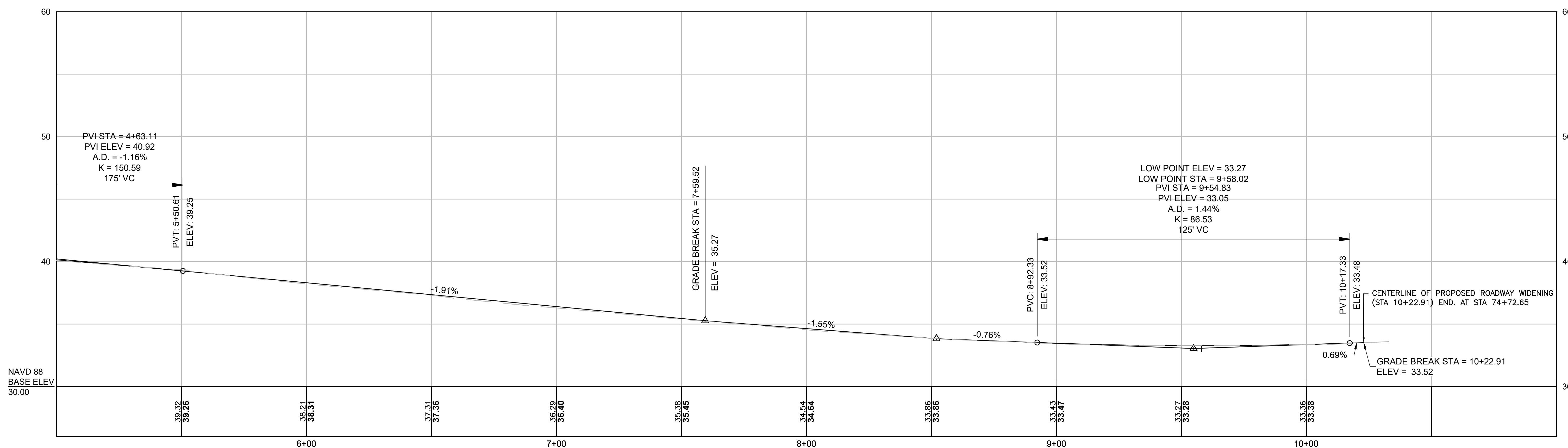
CONSTRUCTION PROFILE



MINOT AVENUE LANE SHIFT (STA 64+41.18 TO STA 74+72.65)



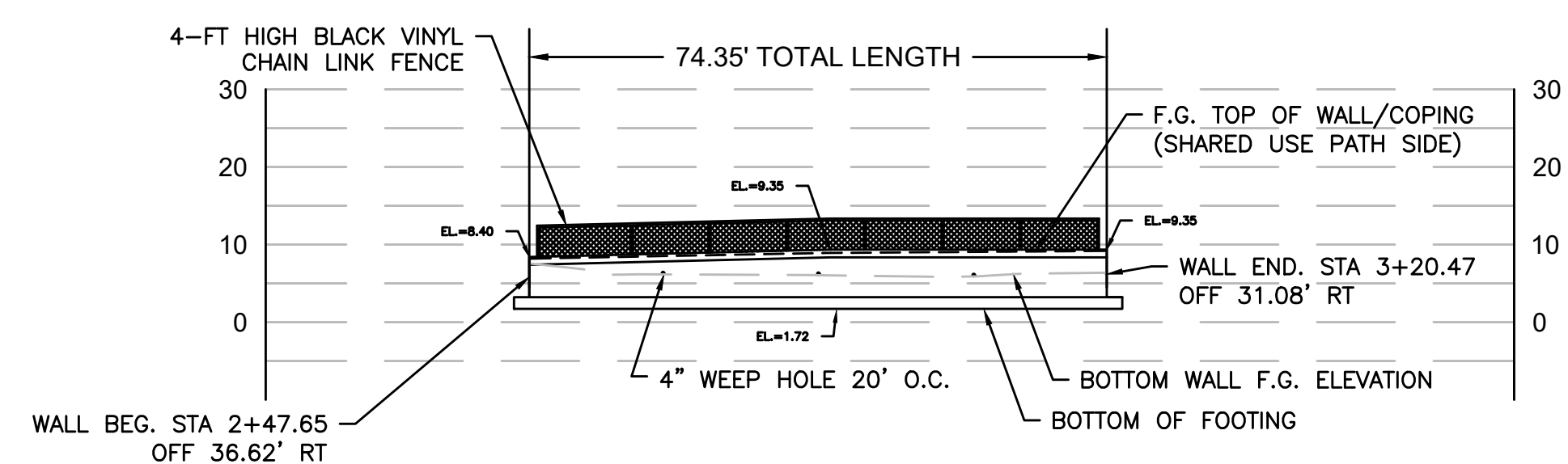
MINOT AVENUE LANE SHIFT (STA 64+41.18 TO STA 74+72.65)



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

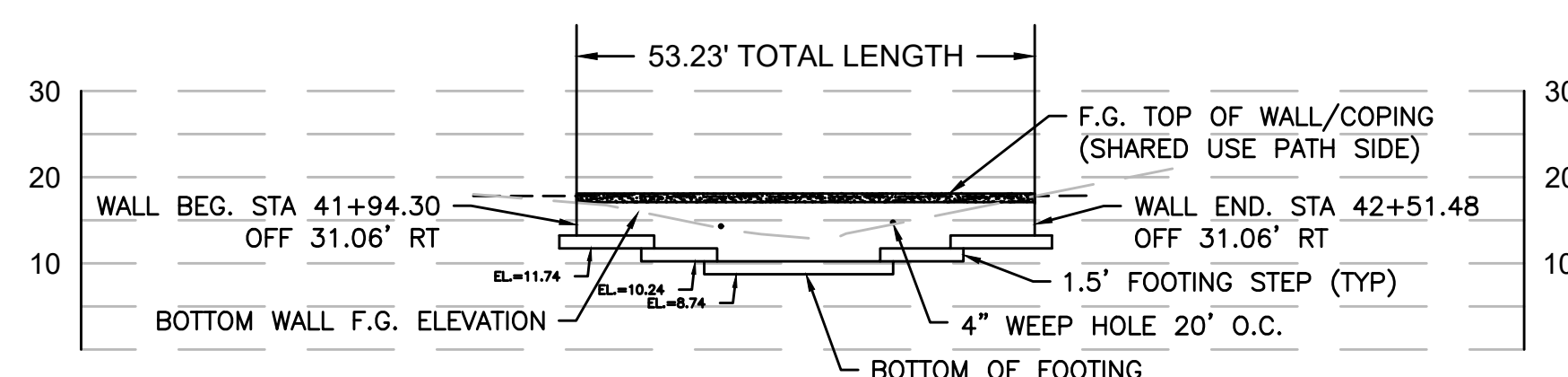
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	48	93
PROJECT FILE NO.		607825	

CONSTRUCTION PROFILE



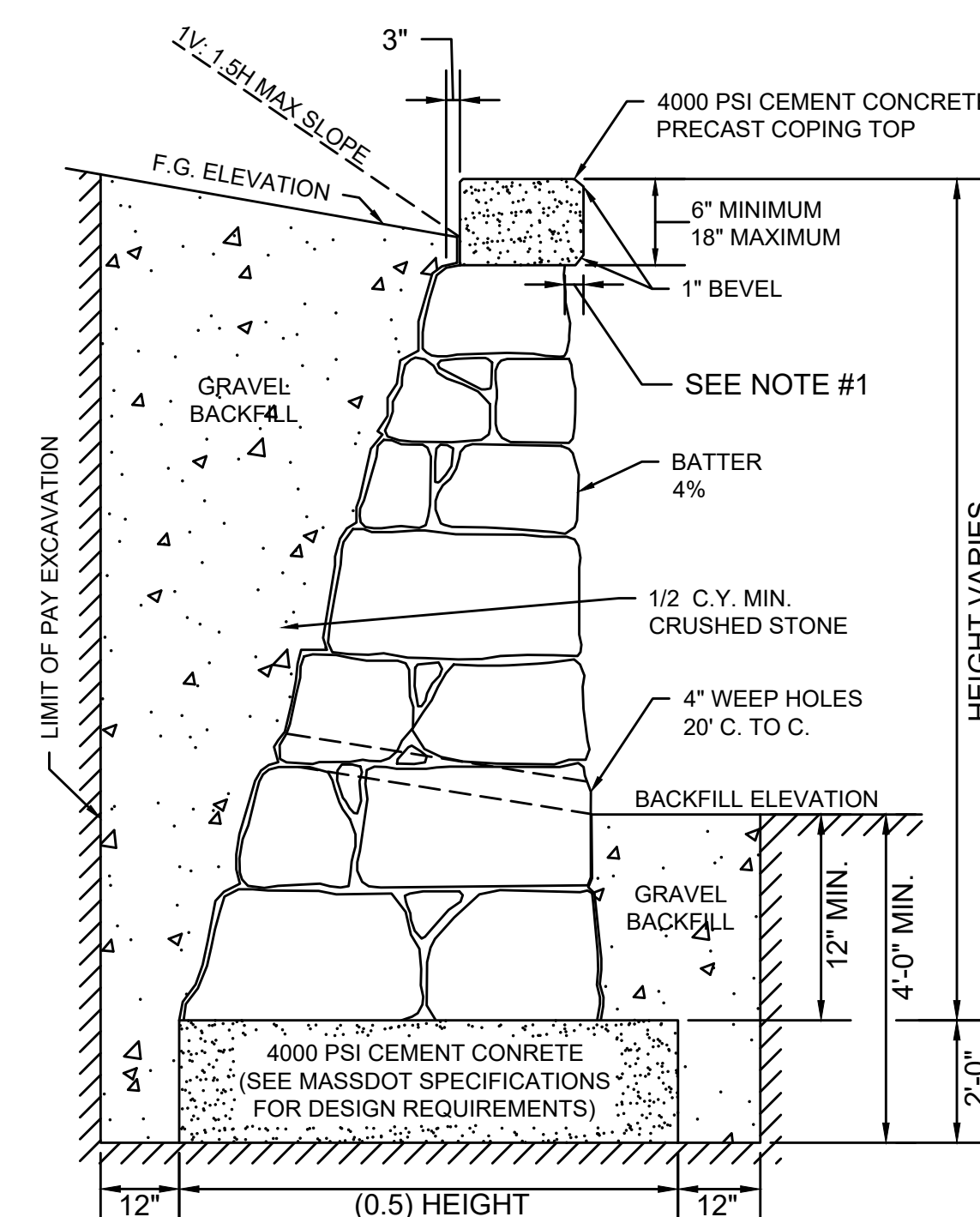
STONE MASONRY WALL-1 (STA 2+47.65 TO STA 3+20.47)

SCALE: 1" = 20'



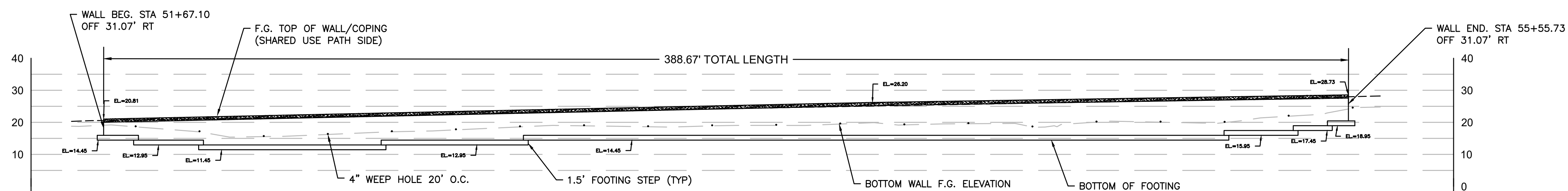
STONE MASONRY WALL-2 (STA 41+94.30 TO STA 42+55.48)

SCALE: 1" = 20'



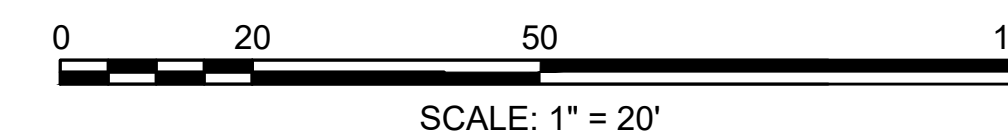
NOTE:

1. DETAILS AND NOTES HERON ARE GENERIC AND ARE INTENDED TO PROVIDE THE SITE AND DESIGN REQUIREMENTS FOR THE DESIGN OF THE WALL.
2. COPING OVERHANG TO BE APPROXIMATELY 3" FOR WALLS 10' OR MORE IN HEIGHT AND APPROXIMATELY 2" FOR WALLS LESS THAN 10' IN HEIGHT; IN A CONTINUOUS WALL OF VARYING HEIGHT THE OVERHANG WILL BE APPROXIMATELY 2" TO 3" FOR THE ENTIRE LENGTH.
3. WALL FOOTING TO BE FOUNDED ON SUITABLE SOIL.
4. WHERE CHAIN LINK FENCING IS SPECIFIED, THE COPING SHALL BE CONCRETE CAST-IN-PLACE WITH A MINIMUM DEPTH OF 12". THE LENGTH OF THE GALVANIZED PIPE SLEEVES FOR FENCE POSTS SHALL BE EQUAL TO THE DEPTH OF COPING.



STONE MASONRY WALL-3 (STA 51+67.10 TO STA 55+55.73)

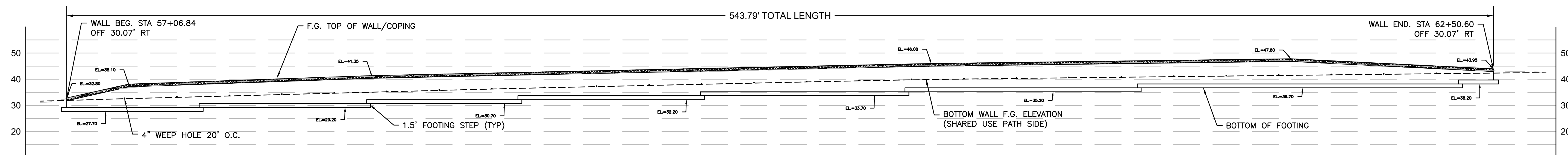
SCALE: 1" = 20'



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

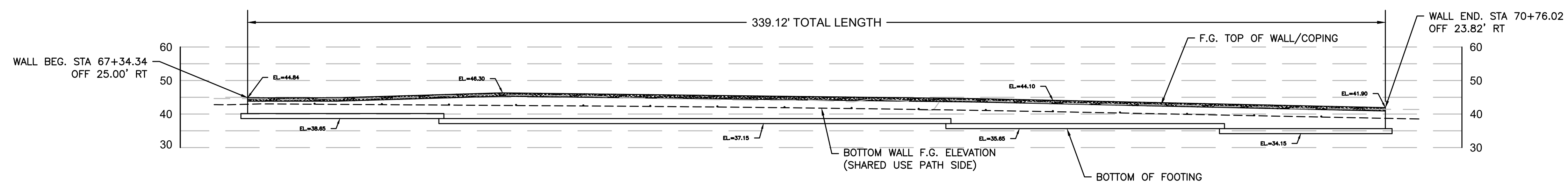
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	49	93
PROJECT FILE NO.		607825	

CONSTRUCTION PROFILE



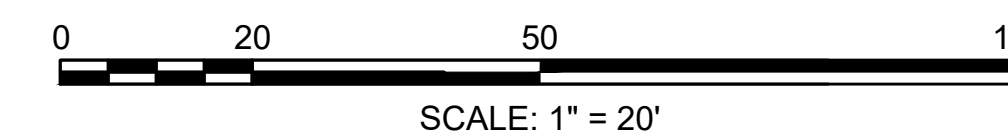
STONE MASONRY WALL-4 (STA 57+06.84 TO STA 62+50.60)

SCALE: 1" = 20'



STONE MASONRY WALL-5 (STA 67+34.34 TO STA 70+76.02)

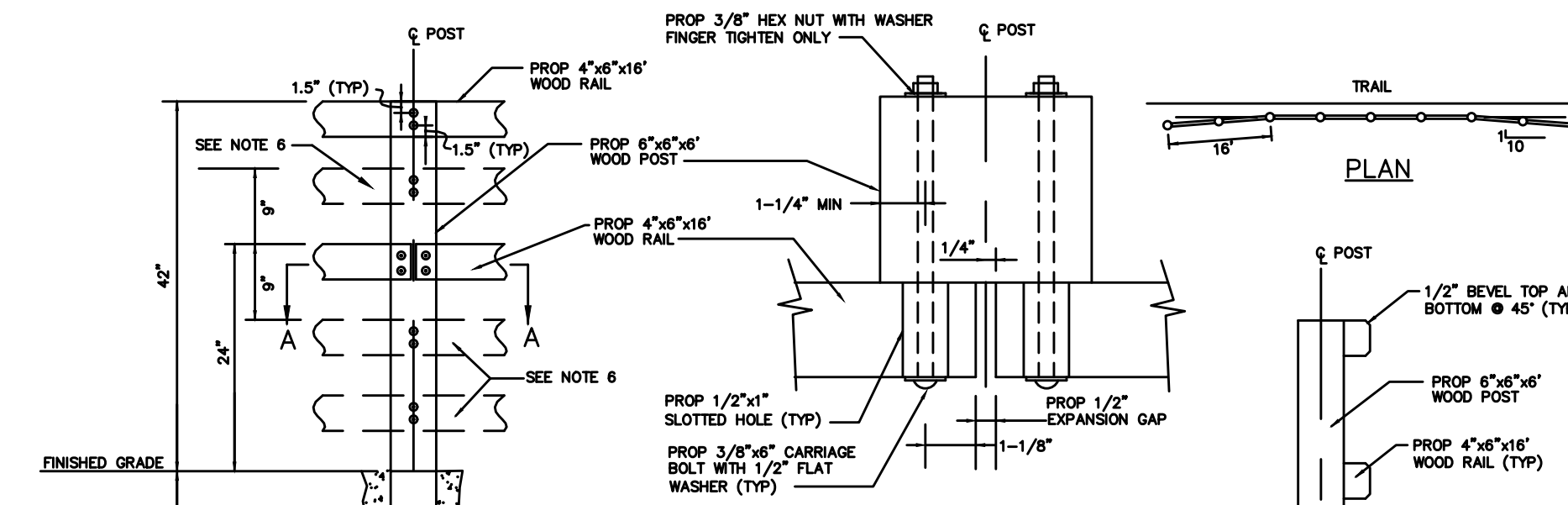
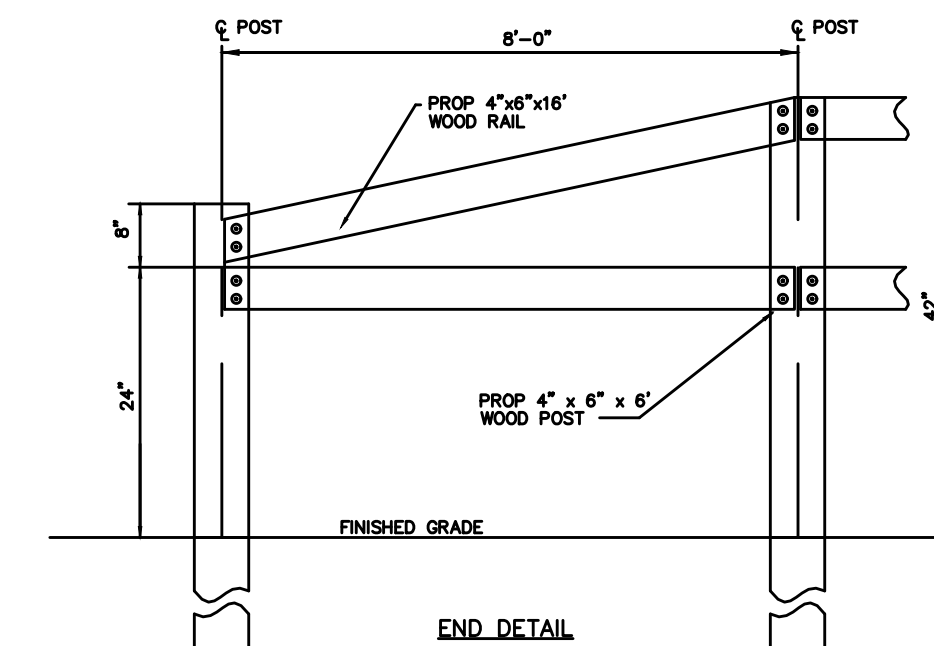
SCALE: 1" = 20'



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

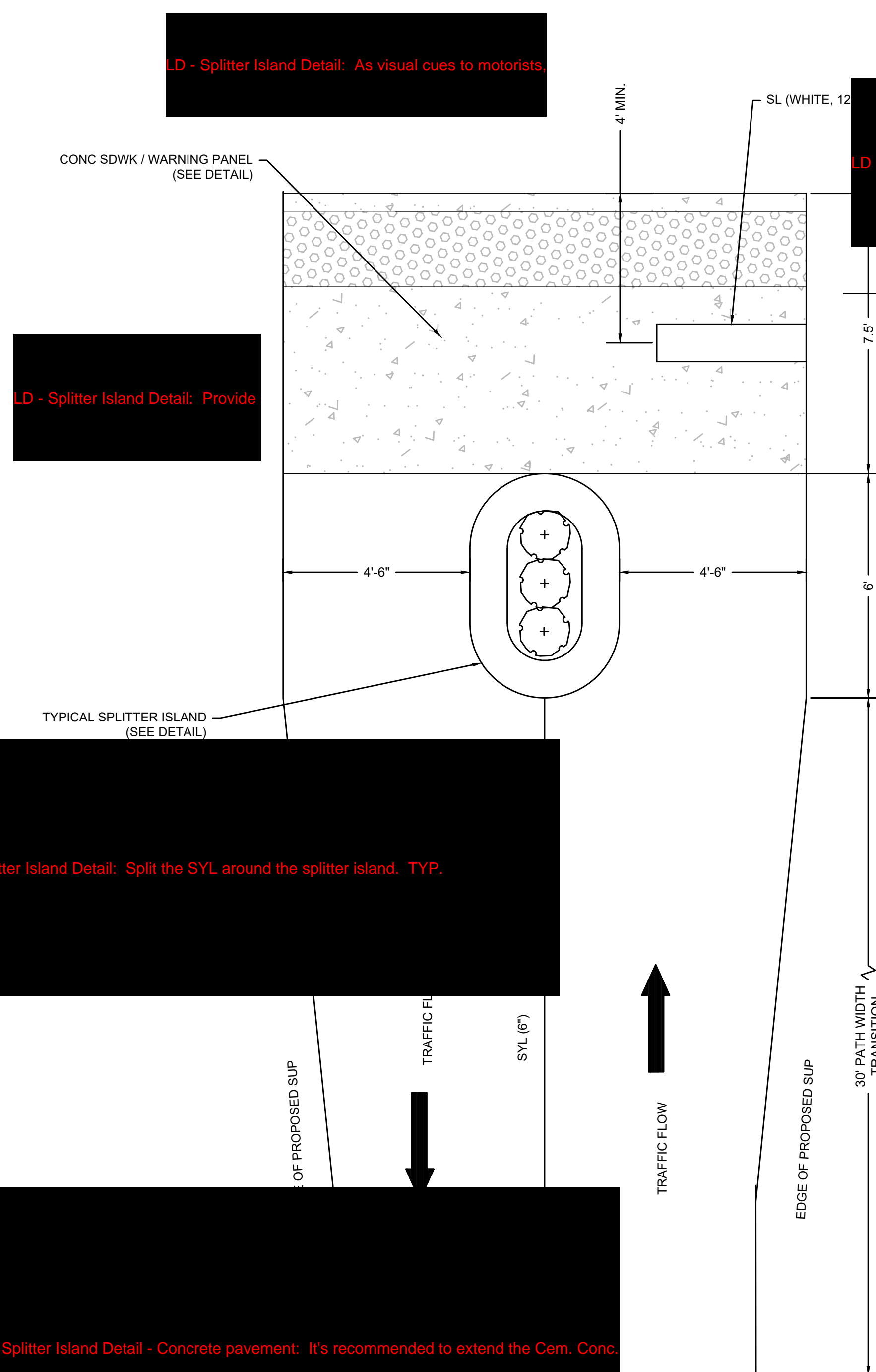
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	50	93
PROJECT FILE NO. 607825			

CONSTRUCTION DETAILS

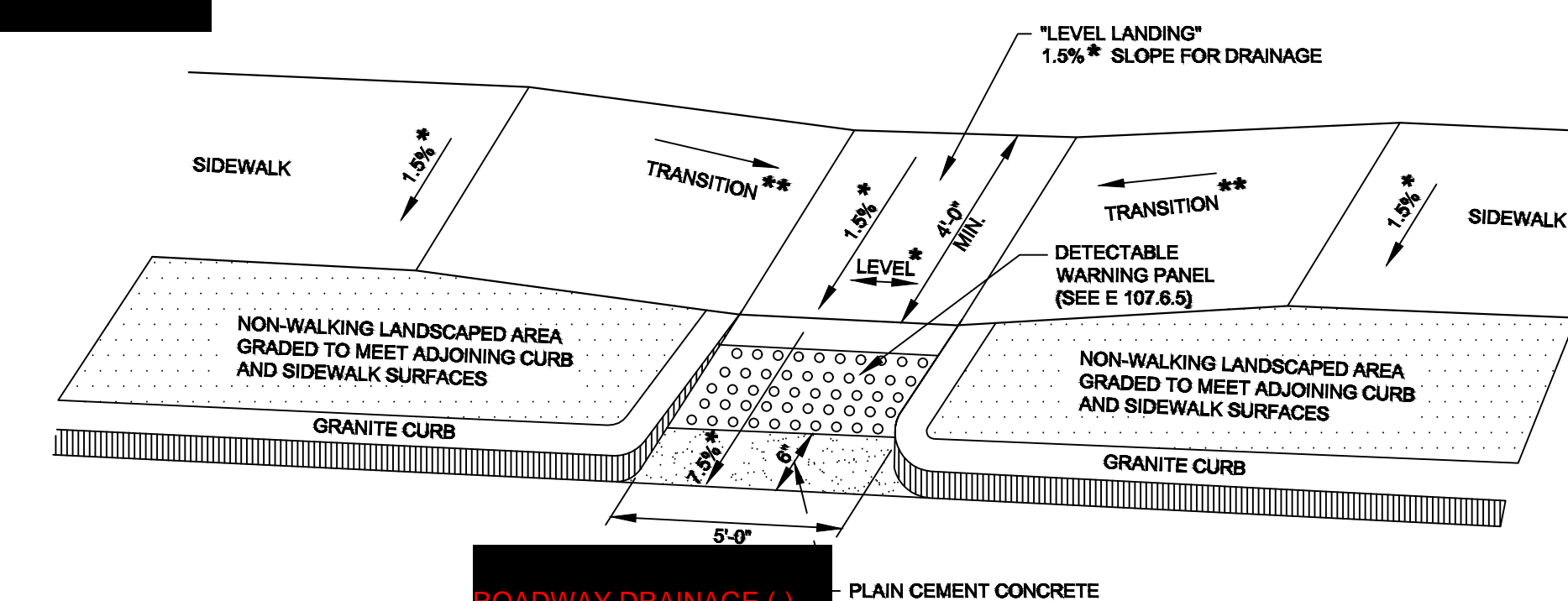


- NOTES**
- POSTS SHALL BE PLACED 8'-0" ON CENTER.
 - THE FACE OF RAIL SHALL BE SET OFF THE EDGE OF BIKE PATH PAVEMENT, AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
 - ALL HARDWARE SHALL BE GALVANIZED.
 - ALTERNATE JOINTS IN RAILING BETWEEN POSTS.
 - CONTRACTOR SHALL SET POST IN 4000 PSI, 1-1/2IN. 565 CEMENT CONCRETE FOR ALL POSTS UNABLE TO BE SET AT REQUIRED DEPTH.
 - THESE RAILS SHALL ONLY BE INSTALLED BETWEEN POSTS ADJACENT TO RETAINING WALL LOCATIONS APPROACHING PEDESTRIAN BRIDGES.

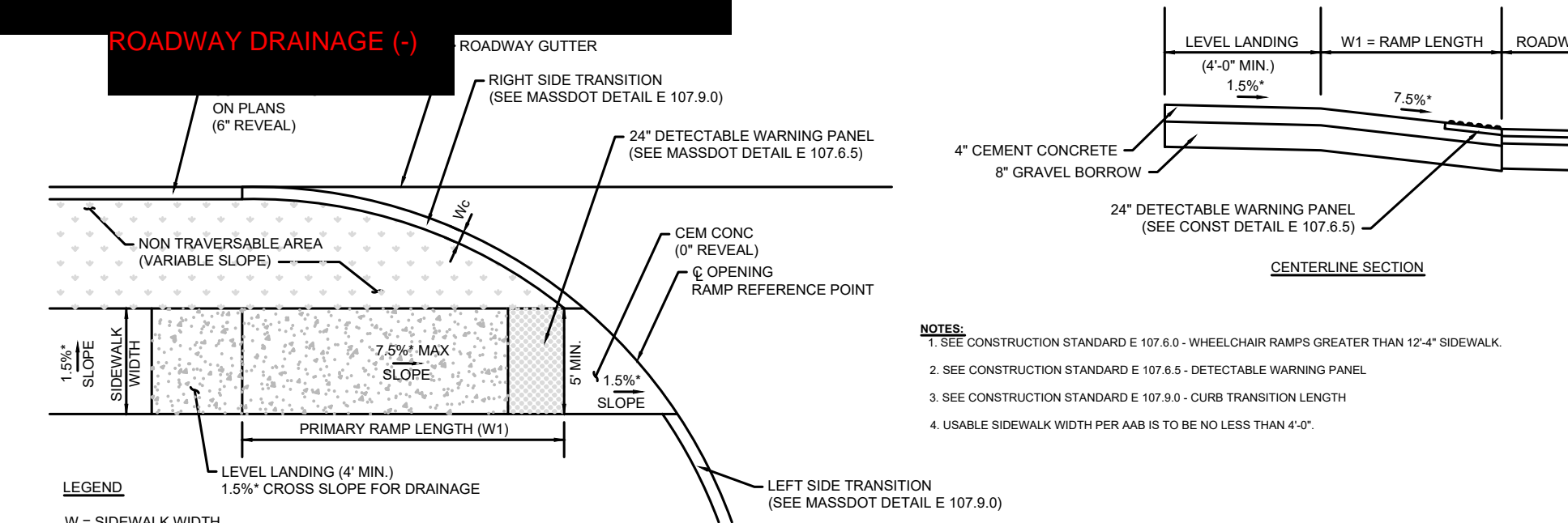
WOOD RAILING DETAIL
NOT TO SCALE



TYPICAL PLAN VIEW



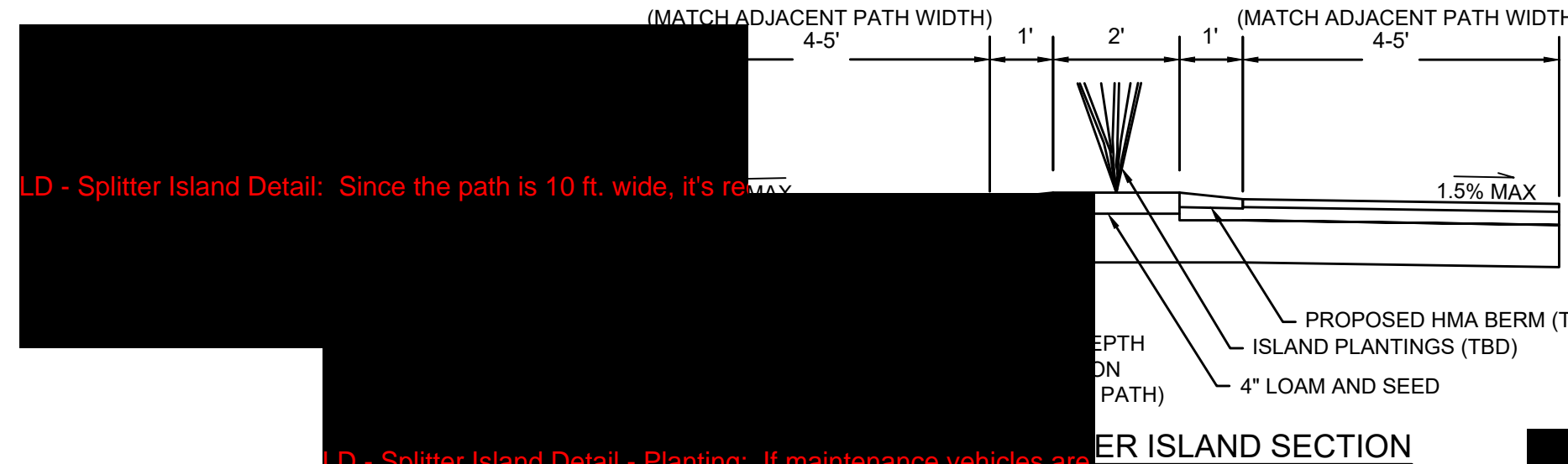
HAIR RAMP DETAIL
NOT TO SCALE



WHEELCHAIR RAMP DETAIL
NOT TO SCALE

LD - Splitter
LD - Splitter Island Detail: Split the SYL around the splitter island. TYP.

LD - Splitter Island Detail - Concrete pavement: It's recommended to extend the Cem. Conc.

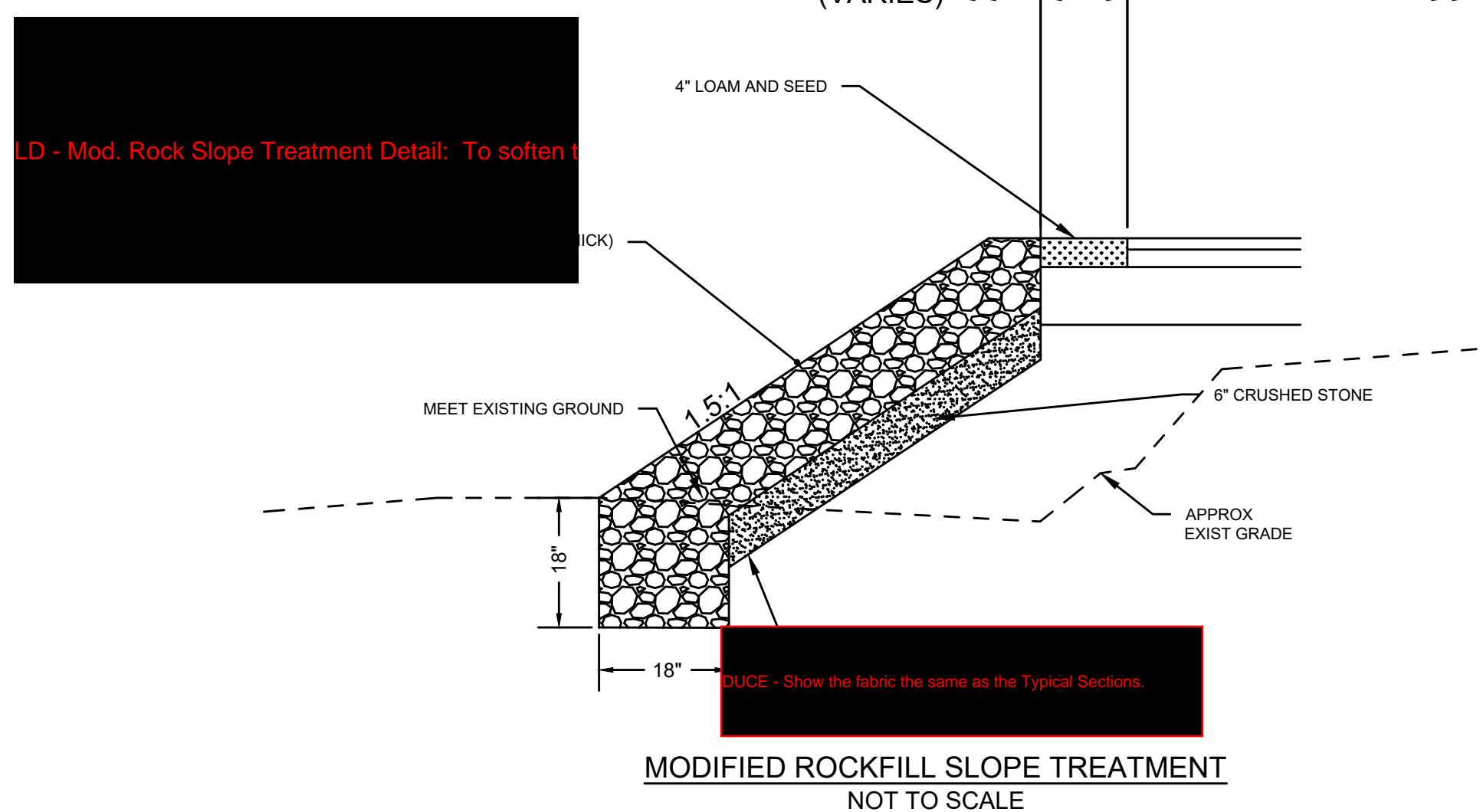


ISLAND SECTION

LD - Splitter Island Detail: Since the path is 10 ft. wide, it's recommended to...

LD - Splitter Island Detail - Planting: If maintenance vehicles are...

LD - Splitter Island Detail: In general, plantings...



MODIFIED ROCKFILL SLOPE TREATMENT
NOT TO SCALE

LD - Mod. Rock Slope Treatment Detail: To soften the...

DUCE - Show the fabric the same as the Typical Sections.

DUCE - Provide stations for...

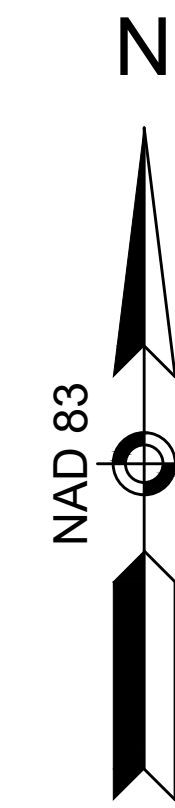
DUCE - Provide a detail drawing for the prop...

Please provide curb ramp construction details with a sectional...

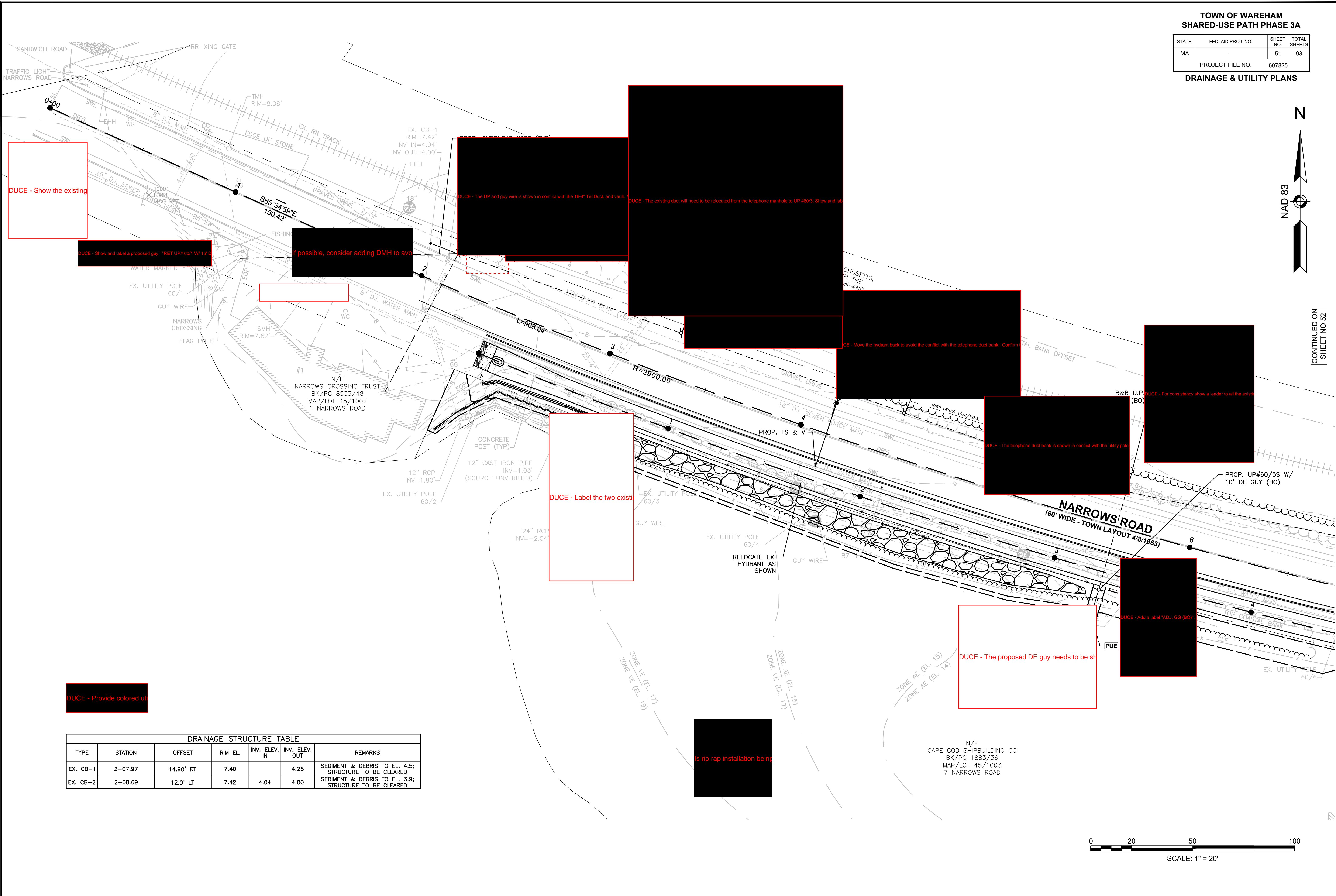
TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	51	93
PROJECT FILE NO.		607825	

DRAINAGE & UTILITY PLANS



CONTINUED ON
SHEET NO 52



DUCE - Show the existing

DUCE - Show and label a proposed guy. RET UP# 60/1 W/ 15' DE GUY (BO)

if possible, consider adding DMH to avoid

DUCE - The UP and guy wire is shown in conflict with the 16-4\"/>

DUCE - The existing duct will need to be relocated from the telephone manhole to UP #60/3. Show and label

DUCE - Move the hydrant back to avoid the conflict with the telephone duct bank. Confirm

DUCE - For consistency show a leader to all the existing

DUCE - Label the two existing

DUCE - The telephone duct bank is shown in conflict with the utility pole

DUCE - Add a label ADJ. GG (BO)

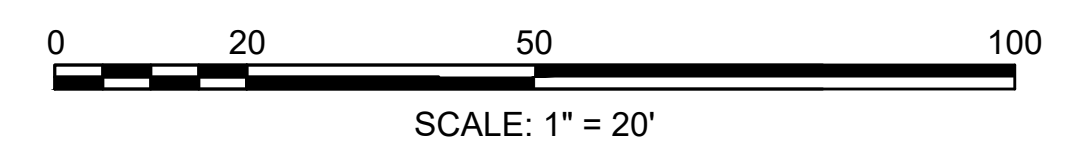
DUCE - The proposed DE guy needs to be shown

DUCE - Provide colored utility

is rip rap installation being

DRAINAGE STRUCTURE TABLE						
TYPE	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX. CB-1	2+07.97	14.90' RT	7.40	4.25	4.00	SEDIMENT & DEBRIS TO EL. 4.5; STRUCTURE TO BE CLEARED
EX. CB-2	2+08.69	12.0' LT	7.42	4.04	4.00	SEDIMENT & DEBRIS TO EL. 3.9; STRUCTURE TO BE CLEARED

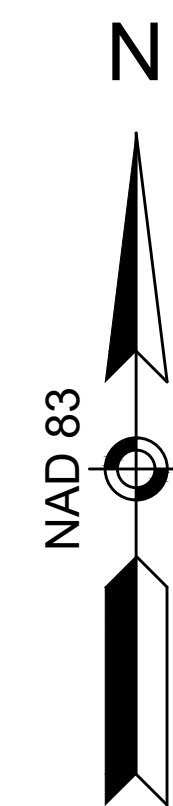
N/F
CAPE COD SHIPBUILDING CO
BK/PG 1883/36
MAP/LOT 45/1003
7 NARROWS ROAD



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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	52	93
PROJECT FILE NO.		607825	

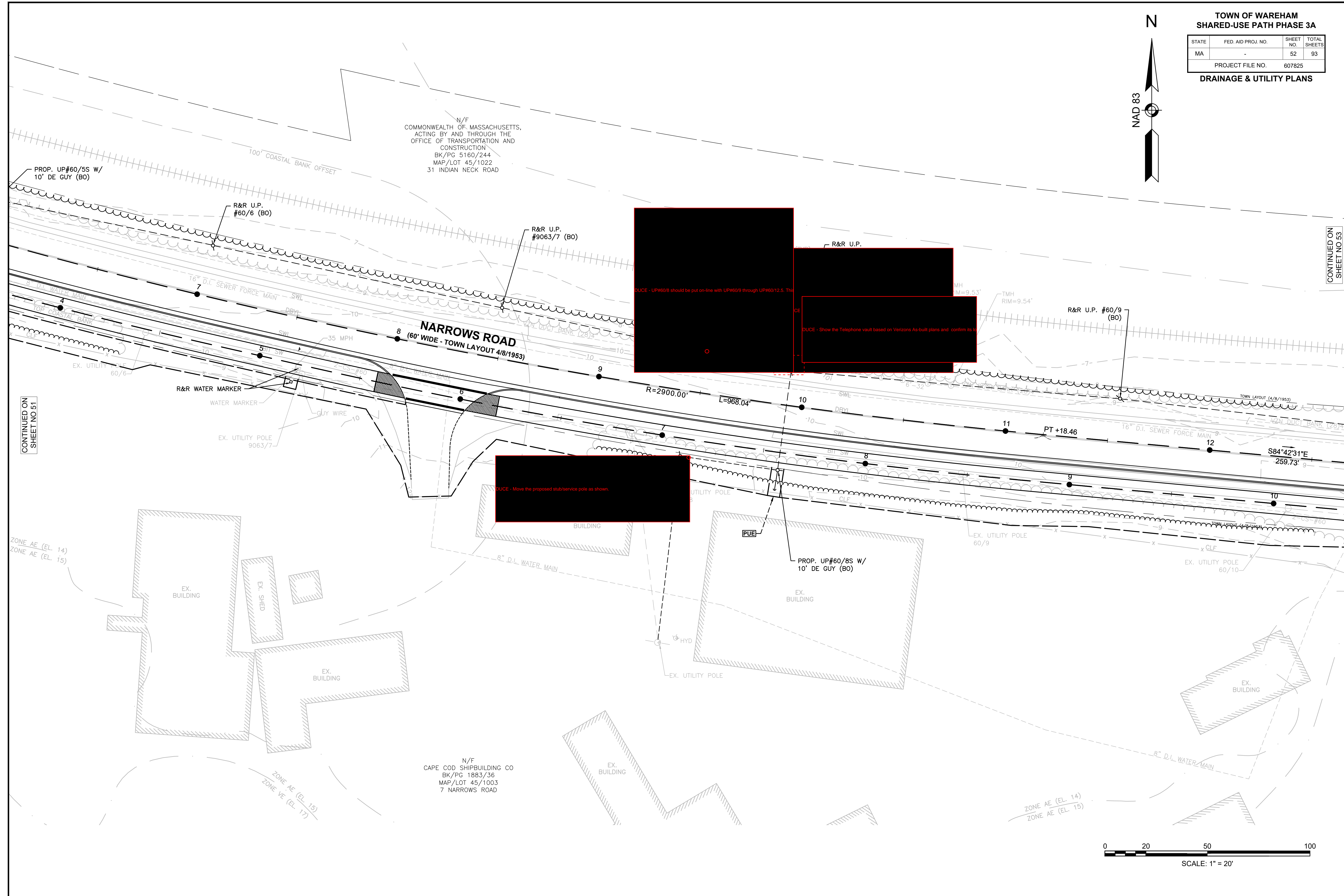
DRAINAGE & UTILITY PLANS



N/F
COMMONWEALTH OF MASSACHUSETTS,
ACTING BY AND THROUGH THE
OFFICE OF TRANSPORTATION AND
CONSTRUCTION
BK/PG 5160/244
MAP/LOT 45/1022
31 INDIAN NECK ROAD

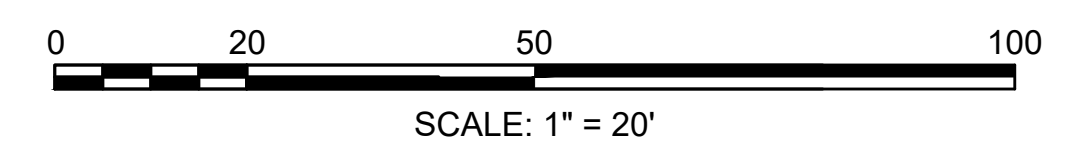
NARROWS ROAD
(60' WIDE - TOWN LAYOUT 4/8/1953)

N/F
CAPE COD SHIPBUILDING CO
BK/PG 1883/36
MAP/LOT 45/1003
7 NARROWS ROAD



CONTINUED ON
SHEET NO 51

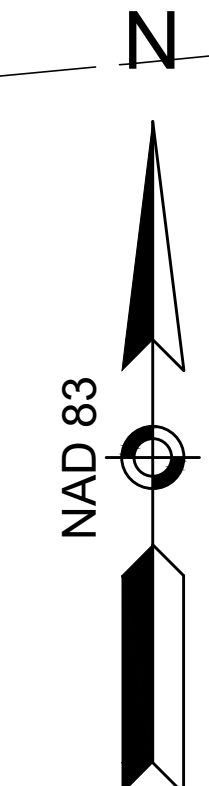
CONTINUED ON
SHEET NO 53



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

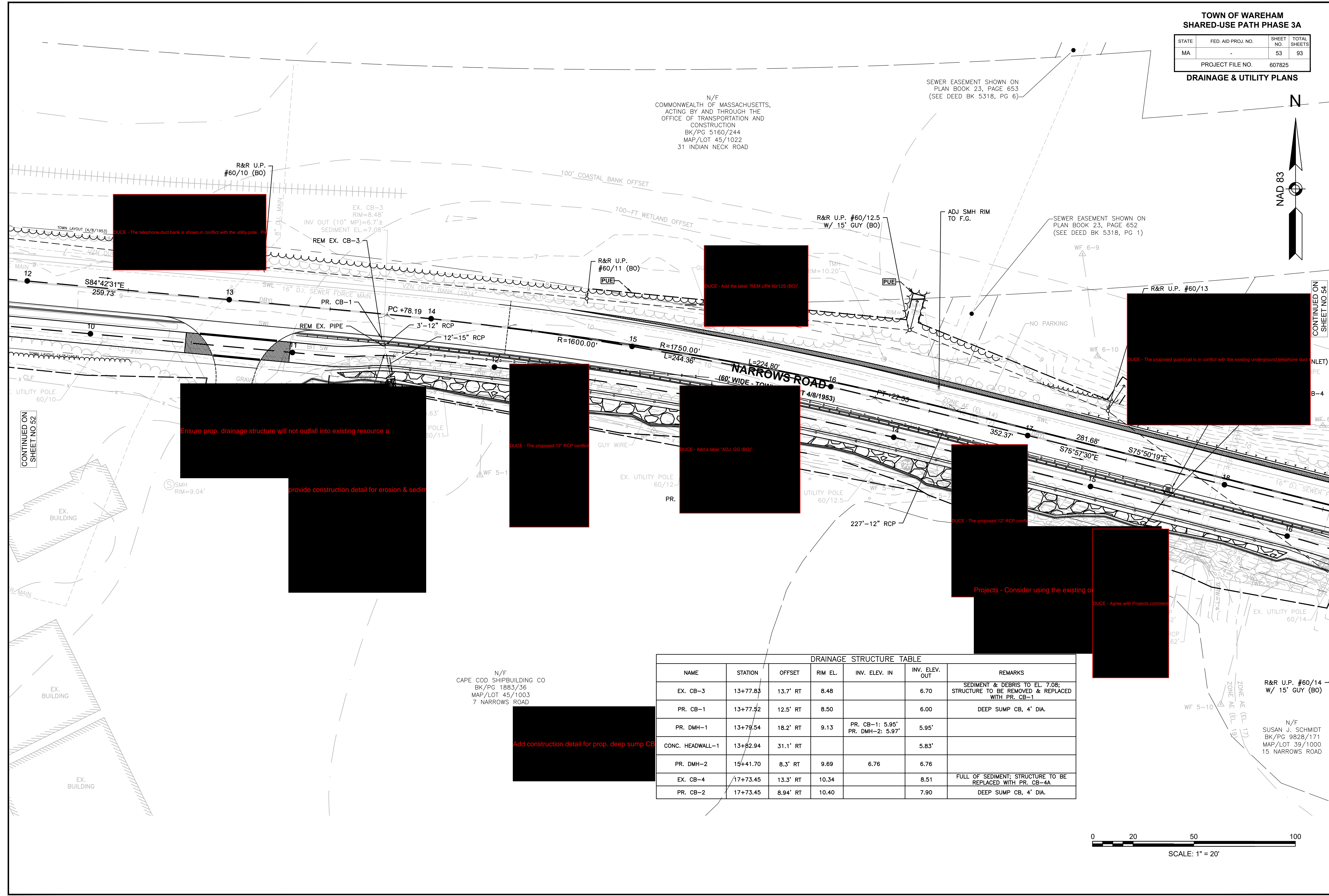
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	53	93
PROJECT FILE NO. 607825			

DRAINAGE & UTILITY PLANS



N/F
COMMONWEALTH OF MASSACHUSETTS,
ACTING BY AND THROUGH THE
OFFICE OF TRANSPORTATION AND
CONSTRUCTION
BK/PG 5160/244
MAP/LOT 45/1022
31 INDIAN NECK ROAD

SEWER EASEMENT SHOWN ON
PLAN BOOK 23, PAGE 653
(SEE DEED BK 5318, PG 6)



DUCE - The telephone duct bank is shown in conflict with the utility pole. PR

DUCE - Add the label "REM U.P.#60/12S (BO)"

DUCE - The proposed guard rail is in conflict with the existing underground telephone duct (INLET) PIPE B-4

Ensure prop. drainage structure will not outfall into existing resource a
provide construction detail for erosion & sediment

DUCE - The proposed 12" RCP conflict

DUCE - Add a label "ADJ. GG (BO)"

Projects - Consider using the existing or
DUCE - Agree with Projects comment

Add construction detail for prop. deep sump CB

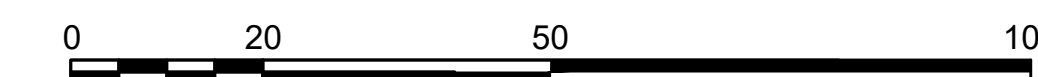
N/F
CAPE COD SHIPBUILDING CO
BK/PG 1883/36
MAP/LOT 45/1003
7 NARROWS ROAD

R&R U.P. #60/14
W/ 15' GUY (BO)

N/F
SUSAN J. SCHMIDT
BK/PG 9828/171
MAP/LOT 39/1000
15 NARROWS ROAD

DRAINAGE STRUCTURE TABLE

NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX. CB-3	13+77.83	13.7' RT	8.48		6.70	SEDIMENT & DEBRIS TO EL. 7.08; STRUCTURE TO BE REMOVED & REPLACED WITH PR. CB-1
PR. CB-1	13+77.52	12.5' RT	8.50		6.00	DEEP SUMP CB, 4' DIA.
PR. DMH-1	13+79.54	18.2' RT	9.13	PR. CB-1: 5.95' PR. DMH-2: 5.97'	5.95'	
CONC. HEADWALL-1	13+82.94	31.1' RT			5.83'	
PR. DMH-2	15+41.70	8.3' RT	9.69	6.76	6.76	
EX. CB-4	17+73.45	13.3' RT	10.34		8.51	FULL OF SEDIMENT; STRUCTURE TO BE REPLACED WITH PR. CB-4A
PR. CB-2	17+73.45	8.94' RT	10.40		7.90	DEEP SUMP CB, 4' DIA.

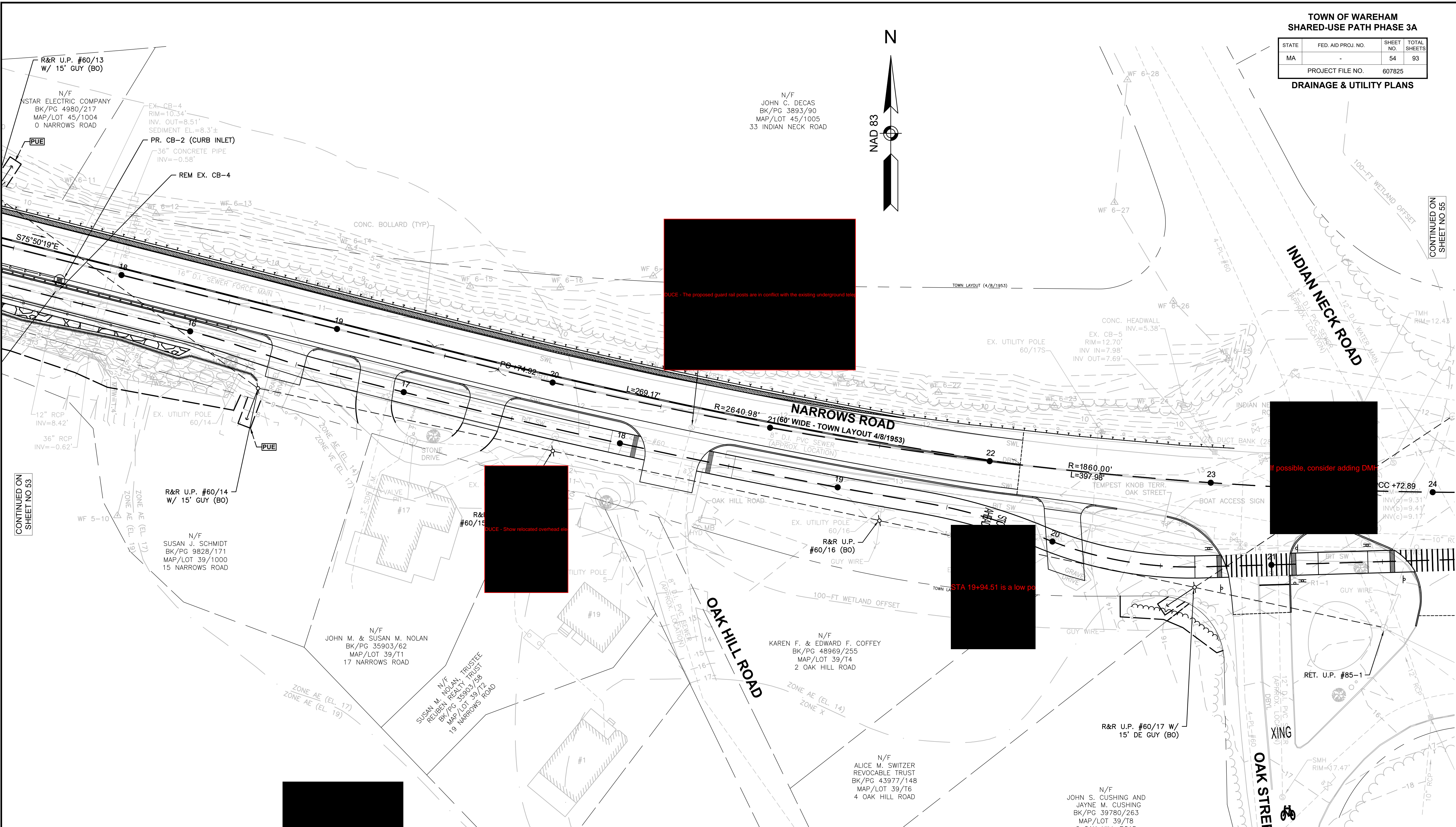
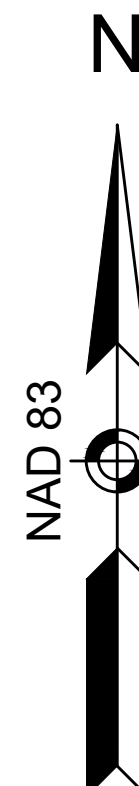


SCALE: 1" = 20'

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	54	93
PROJECT FILE NO. 607825			

DRAINAGE & UTILITY PLANS



DUCE - The proposed guard rail posts are in conflict with the existing underground utilities.

DUCE - Show relocated overhead wires.

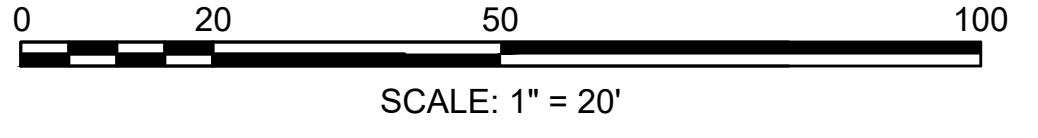
STA 19+94.51 is a low point.

If possible, consider adding DMH.

CONTINUED ON SHEET NO 53

CONTINUED ON SHEET NO 55

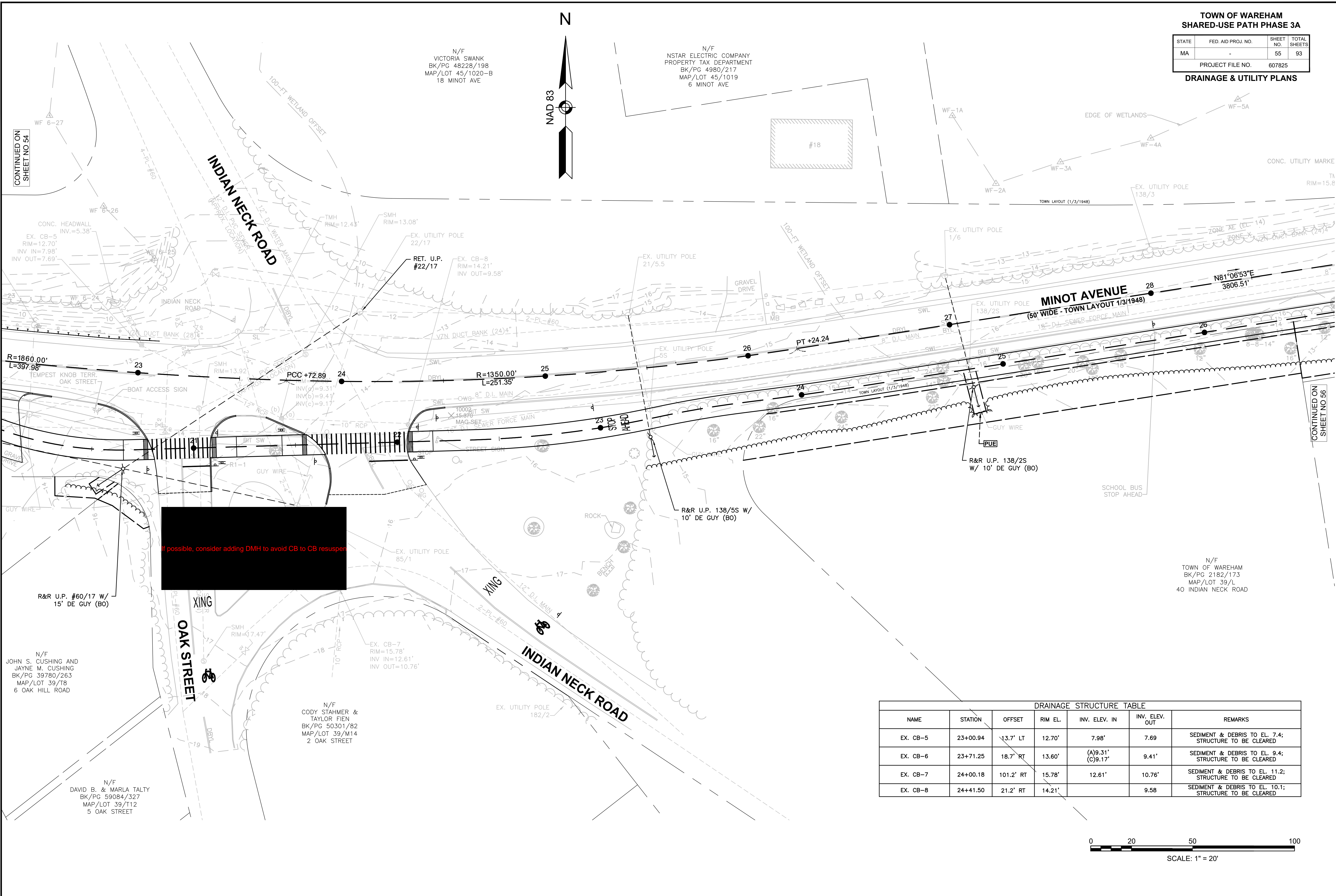
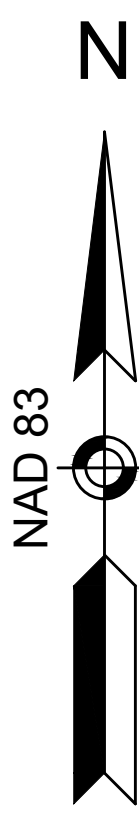
DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. IN should be greater than	REMARKS
EX. CB-4	17+73.45	13.3' RT	10.34			STRUCTURE TO BE REMOVED
PR. CB-2	17+73.45	8.94' RT	10.40			36" DIA.
EX. CB-5	23+00.94	13.7' LT	12.70'	7.98'		AS TO EL. 7.4; TO BE CLEARED
EX. CB-6	23+71.25	18.7' RT	13.60'	(A)9.31' (C)9.17'	9.41'	SEDIMENT & DEBRIS TO EL. 9.4; STRUCTURE TO BE CLEARED
EX. CB-7	24+00.18	101.2' RT	15.78'	12.61'	10.76'	SEDIMENT & DEBRIS TO EL. 11.2; STRUCTURE TO BE CLEARED
EX. CB-8	24+41.50	21.2' RT	14.21'		9.58	SEDIMENT & DEBRIS TO EL. 10.1; STRUCTURE TO BE CLEARED



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

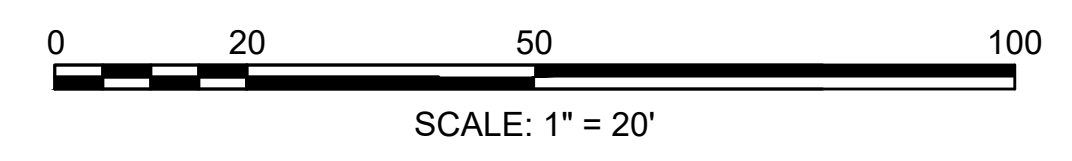
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	55	93
PROJECT FILE NO. 607825			

DRAINAGE & UTILITY PLANS



If possible, consider adding DMH to avoid CB to CB resuspen

DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX. CB-5	23+00.94	13.7' LT	12.70'	7.98'	7.69'	SEDIMENT & DEBRIS TO EL. 7.4; STRUCTURE TO BE CLEARED
EX. CB-6	23+71.25	18.7' RT	13.60'	(A)9.31' (C)9.17'	9.41'	SEDIMENT & DEBRIS TO EL. 9.4; STRUCTURE TO BE CLEARED
EX. CB-7	24+00.18	101.2' RT	15.78'	12.61'	10.76'	SEDIMENT & DEBRIS TO EL. 11.2; STRUCTURE TO BE CLEARED
EX. CB-8	24+41.50	21.2' RT	14.21'		9.58'	SEDIMENT & DEBRIS TO EL. 10.1; STRUCTURE TO BE CLEARED



CONTINUED ON SHEET NO 54

CONTINUED ON SHEET NO 56

N/F
VICTORIA SWANK
BK/PG 48228/198
MAP/LOT 45/1020-B
18 MINOT AVE

N/F
NSTAR ELECTRIC COMPANY
PROPERTY TAX DEPARTMENT
BK/PG 4980/217
MAP/LOT 45/1019
6 MINOT AVE

N/F
TOWN OF WAREHAM
BK/PG 2182/173
MAP/LOT 39/L
40 INDIAN NECK ROAD

N/F
JOHN S. CUSHING AND
JAYNE M. CUSHING
BK/PG 39780/263
MAP/LOT 39/T8
6 OAK HILL ROAD

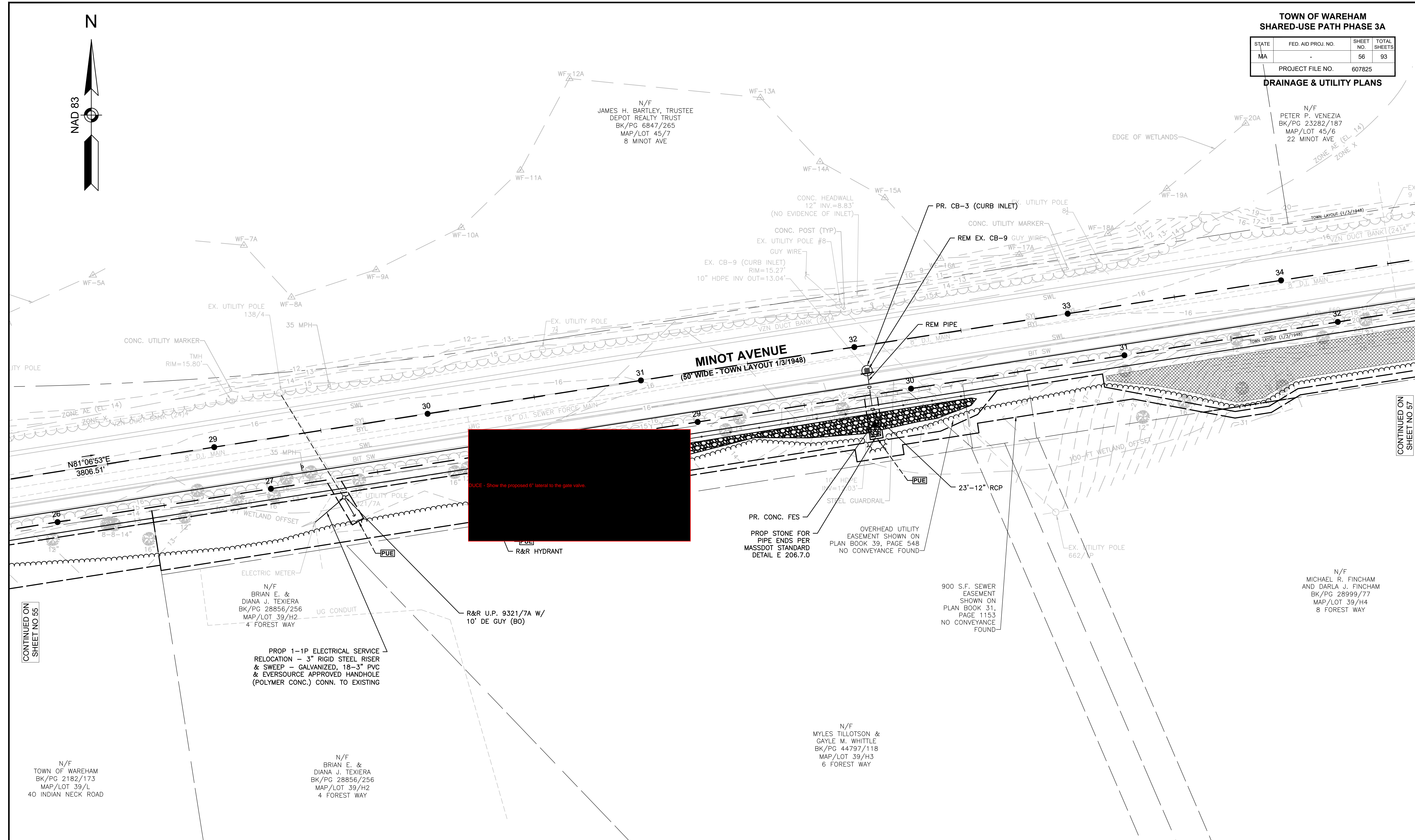
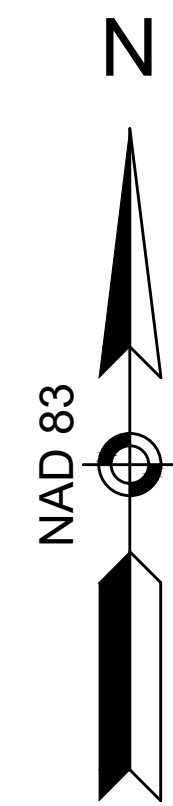
N/F
CODY STAHMER &
TAYLOR FIEN
BK/PG 50301/82
MAP/LOT 39/M14
2 OAK STREET

N/F
DAVID B. & MARLA TALTY
BK/PG 59084/327
MAP/LOT 39/T12
5 OAK STREET

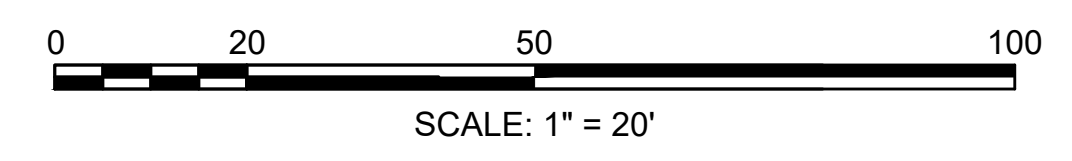
**TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	56	93
PROJECT FILE NO. 607825			

DRAINAGE & UTILITY PLANS

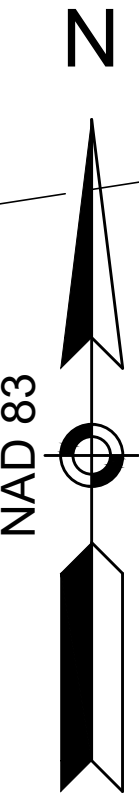


NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX. CB-9	32+04.13	11.7' RT	15.27		13.04	SEDIMENT & DEBRIS TO EL. 12.74; STRUCTURE TO BE REMOVED & REPLACED WITH PR. CB-3
PR. CB-3	32+04.13	11.7' RT	15.27		12.77	DEEP SUMP CB, 4' DIA.
CONC. FES	32+04.13	36.8' RT			12.50	



CONTINUED ON SHEET NO 55

CONTINUED ON SHEET NO 57

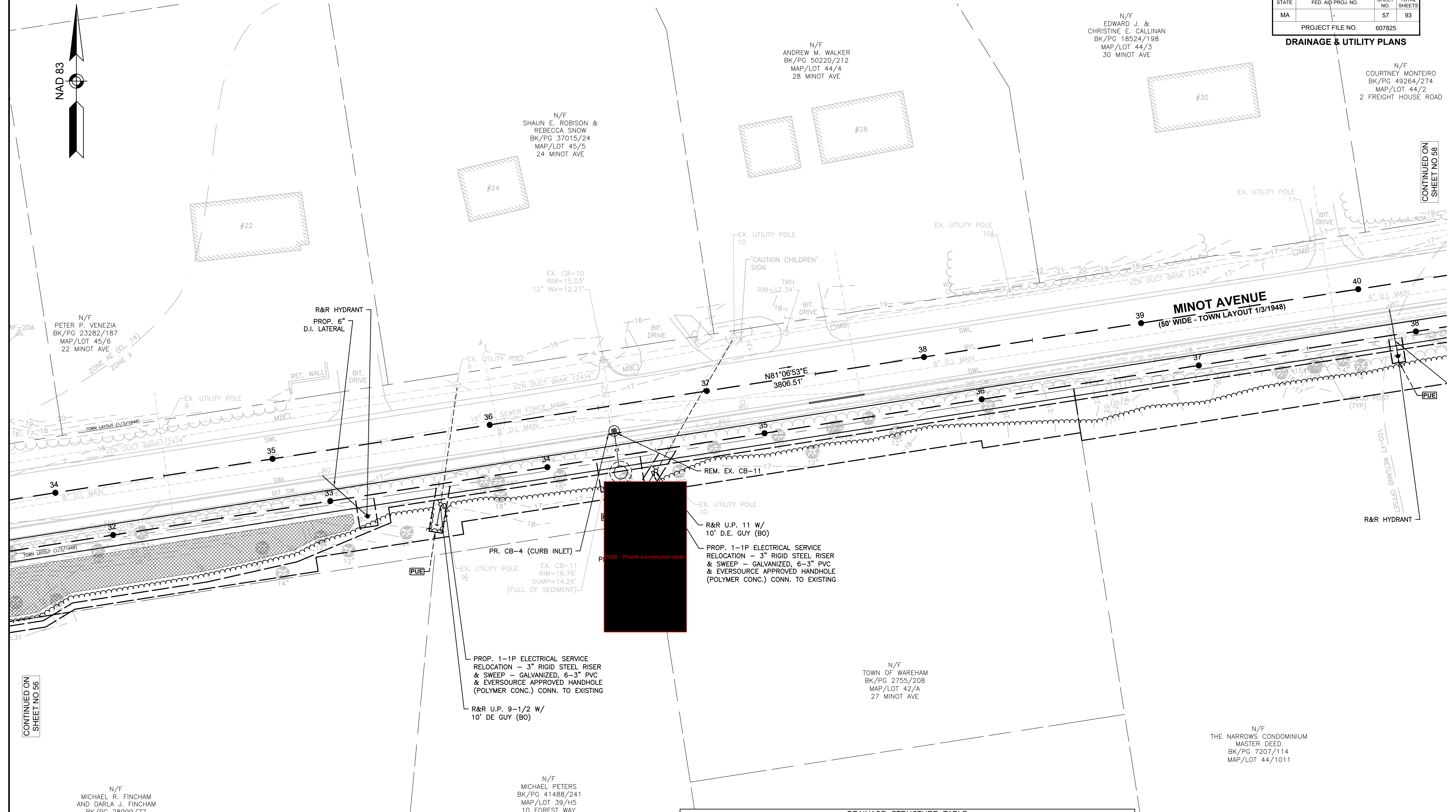


**TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	57	93

PROJECT FILE NO. 607825

DRAINAGE & UTILITY PLANS

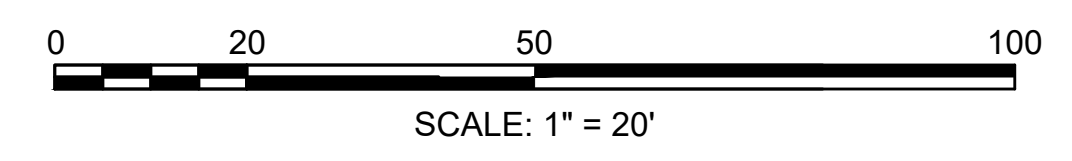


CONTINUED ON
SHEET NO 56

CONTINUED ON
SHEET NO 58

DRAINAGE STRUCTURE TABLE

NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX. CB-10	36+55.61	21.9' LT	15.03		12.27	SEDIMENT & DEBRIS TO EL. 10.8; STRUCTURE TO BE CLEARED
EX. CB-11	36+55.51	11.5' RT	16.76	UNVERIFIED	UNVERIFIED	SEDIMENT & DEBRIS TO EL. 14.3; STRUCTURE TO BE REMOVED & REPLACED WITH PR. CB-4
PR. CB-4	36+55.51	11.5' RT	16.76	EXIST.	12.50	DEEP SUMP CB, 4' DIA.
PR. LP-1	36+55.51	30.8' RT	17.60	12.40		LEACHING PIT 6' DIA. 2' STONE PERIMETER

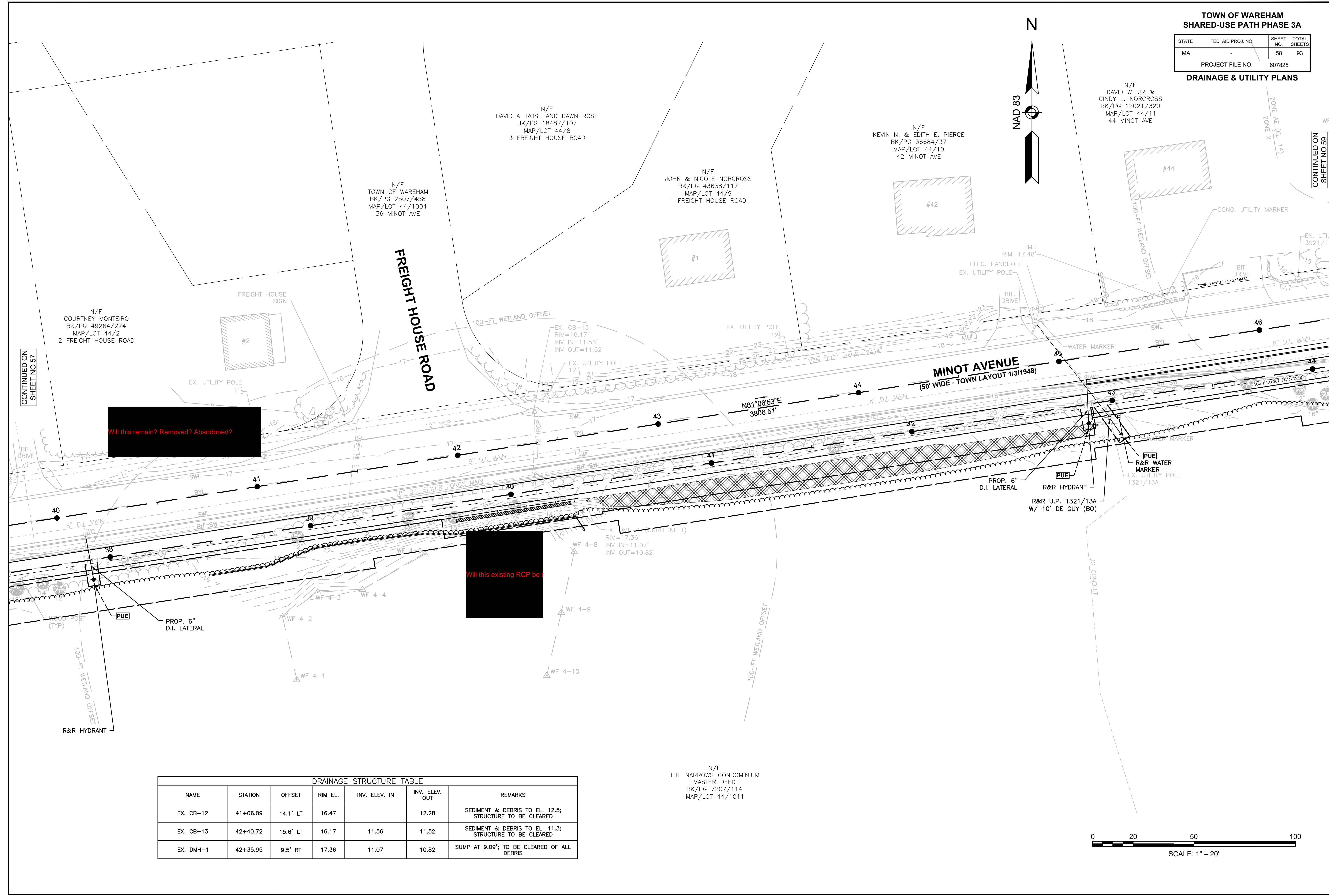
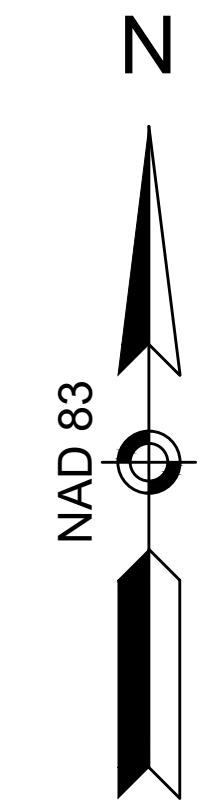


Was a soil boring sample taken to verify that soils are appropriate for a leach

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	58	93
PROJECT FILE NO.		607825	

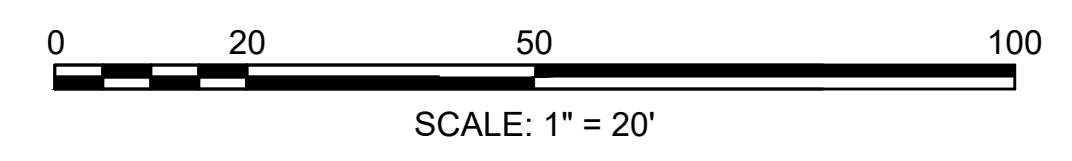
DRAINAGE & UTILITY PLANS



Will this remain? Removed? Abandoned?

Will this existing RCP be

DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX. CB-12	41+06.09	14.1' LT	16.47		12.28	SEDIMENT & DEBRIS TO EL. 12.5; STRUCTURE TO BE CLEARED
EX. CB-13	42+40.72	15.6' LT	16.17	11.56	11.52	SEDIMENT & DEBRIS TO EL. 11.3; STRUCTURE TO BE CLEARED
EX. DMH-1	42+35.95	9.5' RT	17.36	11.07	10.82	SUMP AT 9.09'; TO BE CLEARED OF ALL DEBRIS

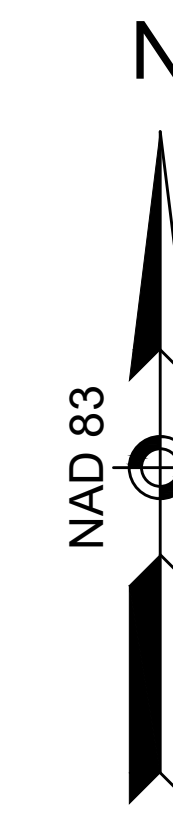


**TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A**

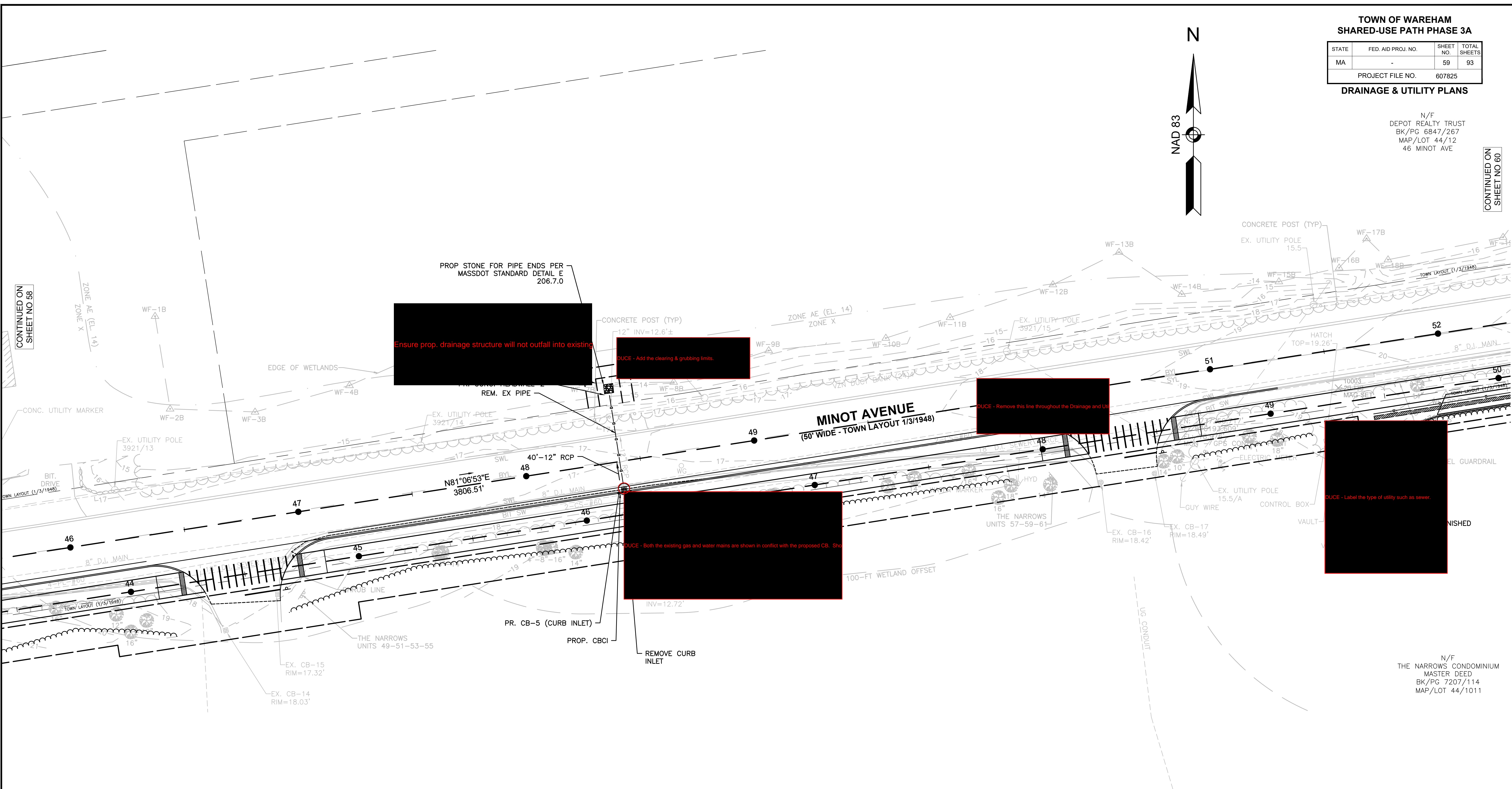
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	59	93
PROJECT FILE NO. 607825			

DRAINAGE & UTILITY PLANS

N/F
DEPOT REALTY TRUST
BK/PG 6847/267
MAP/LOT 44/12
46 MINOT AVE



CONTINUED ON
SHEET NO 60



Ensure prop. drainage structure will not outfall into existing

DUCE - Add the clearing & grubbing limits.

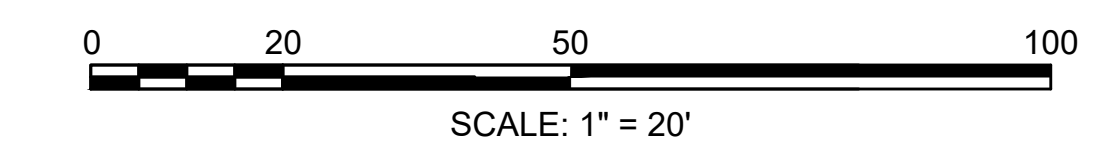
DUCE - Remove this line throughout the Drainage and Utility

DUCE - Both the existing gas and water mains are shown in conflict with the proposed CB. Sh

DUCE - Label the type of utility such as sewer.

DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX. CB-14	46+60.90	45.9' RT	18.03			SEDIMENT TO EL. 15.3'
EX. CB-15	46+85.60	33.9' RT	17.32			SEDIMENT TO EL. 15.5'
EX. DMH-2	48+41.11	13.3' LT	17.36		12.72	FILLED WITH WATER; OUTLET PIPE ELEVATION TOO LOW; TO BE REPLACED BY PR CB-5
PR CB-5	48+41.11	13.3' LT	16.70		14.20	DEEP SUMP CB, 4' DIA.
CONC. HEADWALL-2	48+40.95	29.5' LT			14.00	SEDIMENT & DEBRIS TO EL. 11.2; STRUCTURE TO BE CLEARED
EX. CB-16	50+45.78	41.1' RT	18.42			SEDIMENT TO EL. 16.5'
EX. CB-17	50+69.12	41.0' RT	18.49			SEDIMENT TO EL. 15.7'

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK/PG 7207/114
MAP/LOT 44/1011

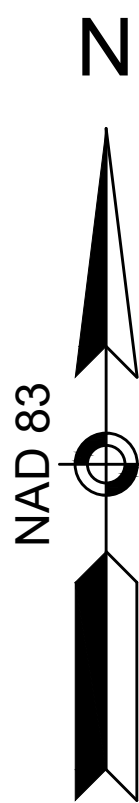


TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	60	93
PROJECT FILE NO.		607825	

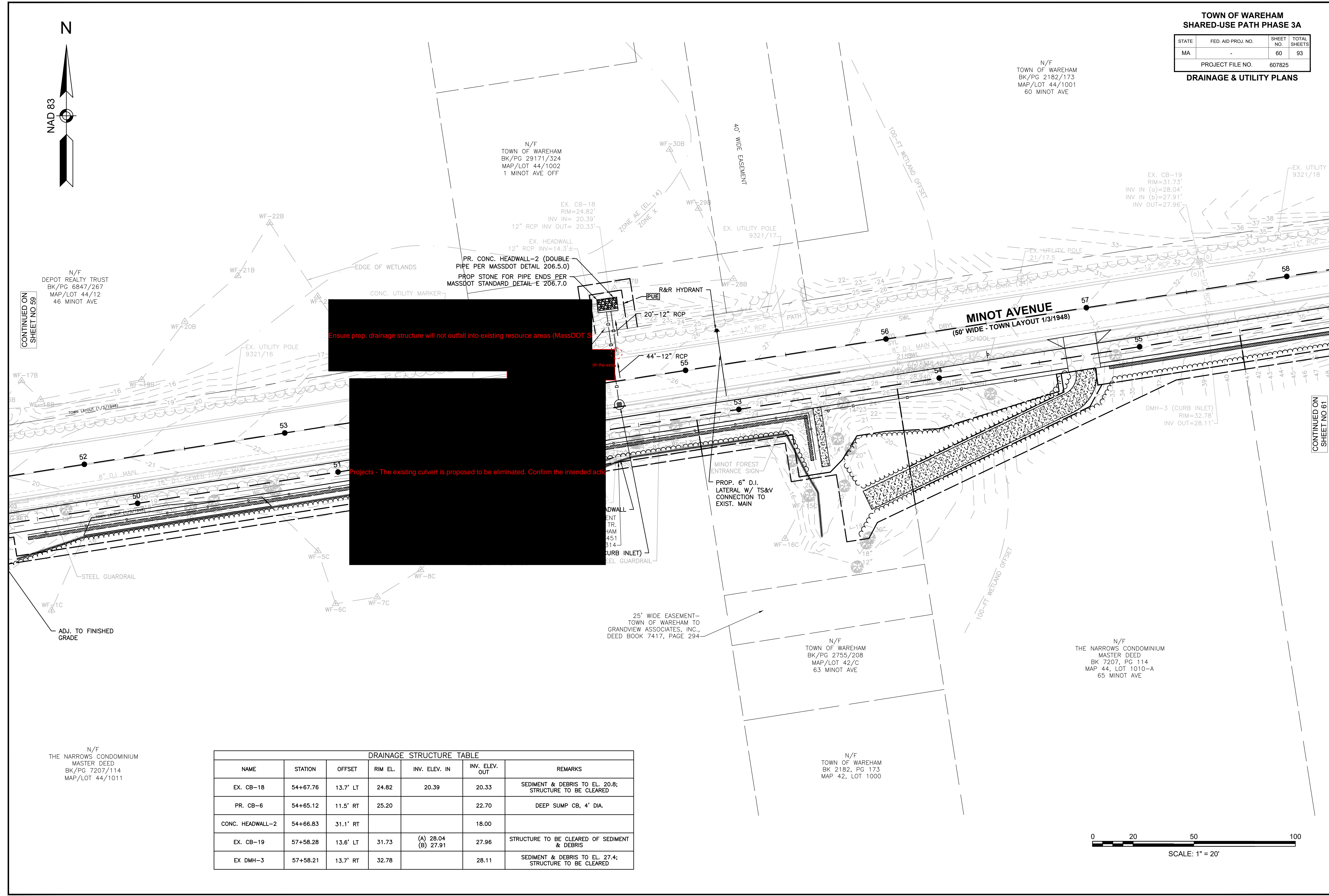
DRAINAGE & UTILITY PLANS

N/F
TOWN OF WAREHAM
BK/PG 2182/173
MAP/LOT 44/1001
60 MINOT AVE



CONTINUED ON
SHEET NO 59

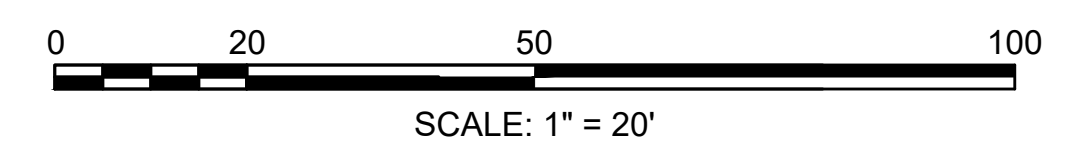
CONTINUED ON
SHEET NO 61



Ensure prop. drainage structure will not outfall into existing resource areas (MassDOT S...
Projects - The existing culvert is proposed to be eliminated. Confirm the intended ac...

DRAINAGE STRUCTURE TABLE

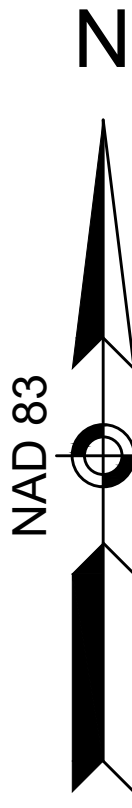
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX. CB-18	54+67.76	13.7' LT	24.82	20.39	20.33	SEDIMENT & DEBRIS TO EL. 20.8; STRUCTURE TO BE CLEARED
PR. CB-6	54+65.12	11.5' RT	25.20		22.70	DEEP SUMP CB, 4' DIA.
CONC. HEADWALL-2	54+66.83	31.1' RT			18.00	
EX. CB-19	57+58.28	13.6' LT	31.73	(A) 28.04 (B) 27.91	27.96	STRUCTURE TO BE CLEARED OF SEDIMENT & DEBRIS
EX DMH-3	57+58.21	13.7' RT	32.78		28.11	SEDIMENT & DEBRIS TO EL. 27.4; STRUCTURE TO BE CLEARED



N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK/PG 7207/114
MAP/LOT 44/1011

N/F
TOWN OF WAREHAM
BK/PG 2755/208
MAP/LOT 42/C
63 MINOT AVE

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK 7207, PG 114
MAP 44, LOT 1010-A
65 MINOT AVE



DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX. CB-20	60+58.48	13.8' LT	38.56	33.12	33.07	SEDIMENT & DEBRIS TO EL. 34.3; STRUCTURE TO BE CLEARED
EX. DMH-4	60+59.08	14.3' RT	39.56		33.63	STRUCTURE TO BE CLEARED OF SEDIMENT & DEBRIS
EX. CB-21	63+46.17	25.9' RT	41.49		34.47	TO BE ADJ. PER MINOT FOREST ELEMENTARY SCHOOL CONSTRUCTION
EX-FES	63+55.40	75.7' LT			31.73	24" CONCRETE F.E.S.
PR CB-7	63+37.68	13.5' RT	41.81'		39.30	TO BE ADJ. PER MINOT FOREST ELEMENTARY SCHOOL CONSTRUCTION
PR DMH-2	63+47.06	14.8' RT	41.89'		(EXIST. 24") 34.30'	TO BE ADJ. PER MINOT FOREST ELEMENTARY SCHOOL CONSTRUCTION
PR CB-8	63+60.14	39.5' RT	42.90'		38.40	TO BE ADJ. PER MINOT FOREST ELEMENTARY SCHOOL CONSTRUCTION

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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	61	93

PROJECT FILE NO. 607825

DRAINAGE & UTILITY PLANS

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

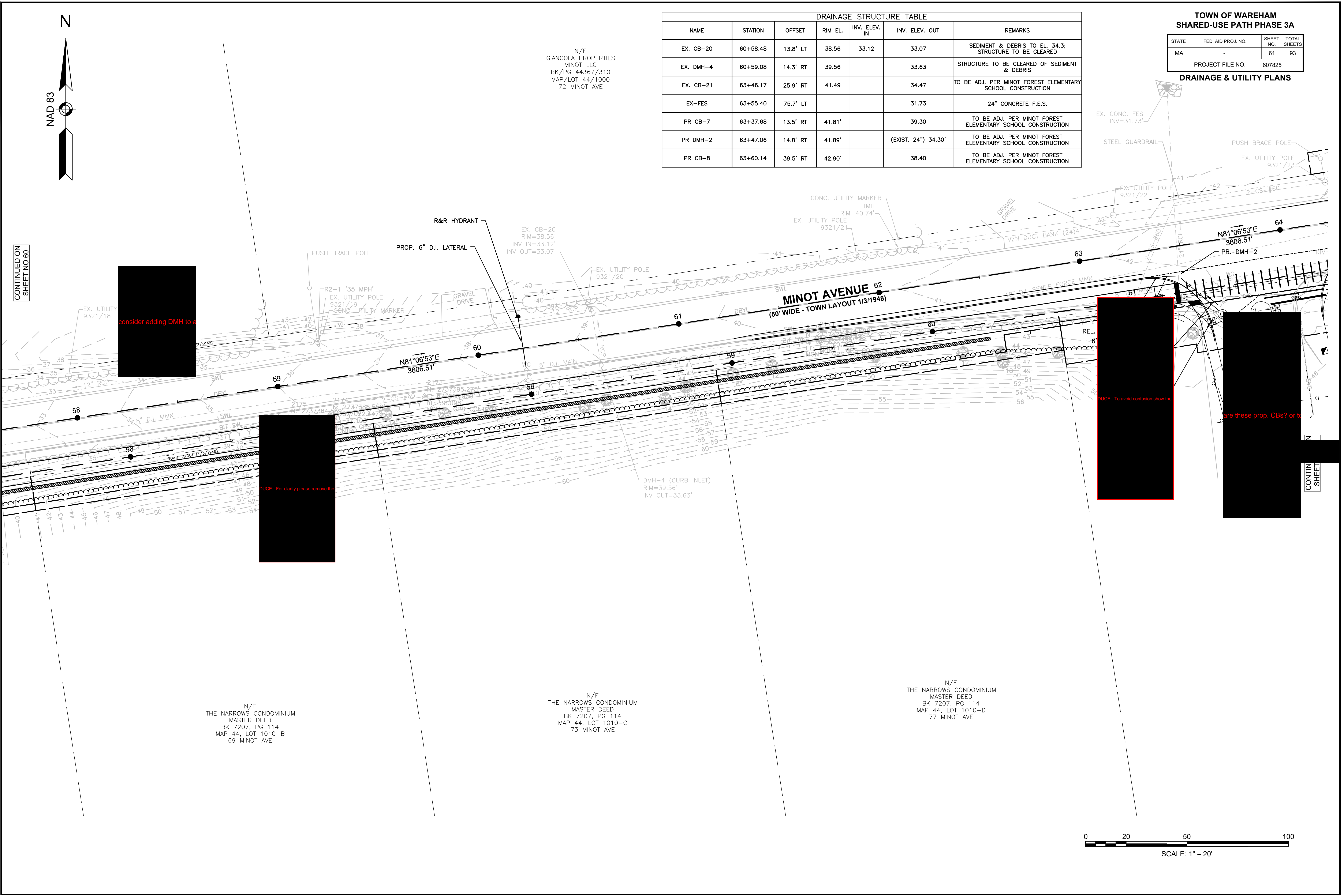
N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK 7207, PG 114
MAP 44, LOT 1010-C
73 MINOT AVE

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK 7207, PG 114
MAP 44, LOT 1010-D
77 MINOT AVE

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK 7207, PG 114
MAP 44, LOT 1010-B
69 MINOT AVE

CONTINUED ON
SHEET NO 60

CONTINUED
SHEET

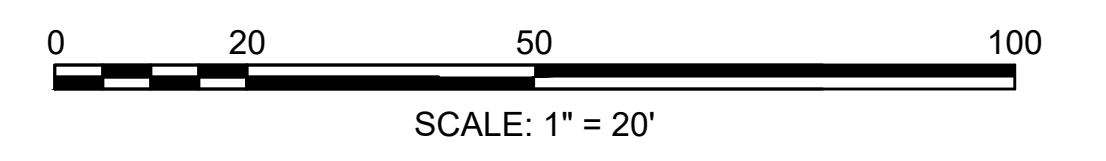


consider adding DMH to a

DUCE - For clarity please remove the

DUCE - To avoid confusion show the

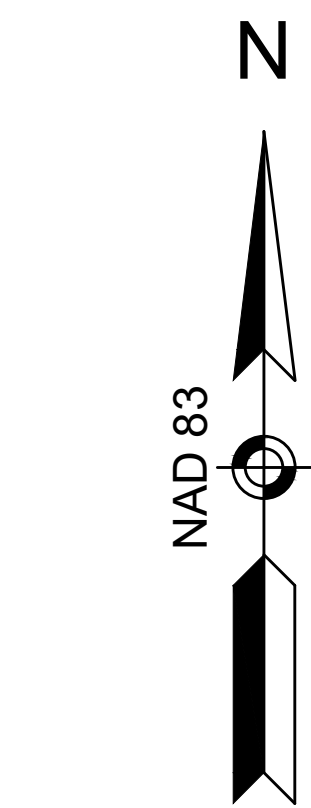
are these prop. CBs? or to



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	62	93
PROJECT FILE NO.		607825	

DRAINAGE & UTILITY PLANS



CONTINUED ON SHEET NO 61

PUSH BRACKET - Add the label 'RET OPP 9321/24'

EX. UTIL

N81°06'53"E
3806.51'

PR. DMH-2

MINOT FOREST NATURE TRAIL

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

EX. UTILITY POLE #9321/24

R&R U.P. #9321/24 W/ 15' GUY (BO)

SMH RIM=42.03'

EX. UTILITY POLE #9321/25

R&R U.P. #9321/25 W/ 10' SW GUY (BO)

EX. UTILITY POLE #9321/26

R&R U.P. 9321/26 W/ 15' GUY (BO)

EX. GUYWIRE (TYP)

PR-DMH-3 (CHANGE EX. CB RIM TO DMH RIM TO F.G.)

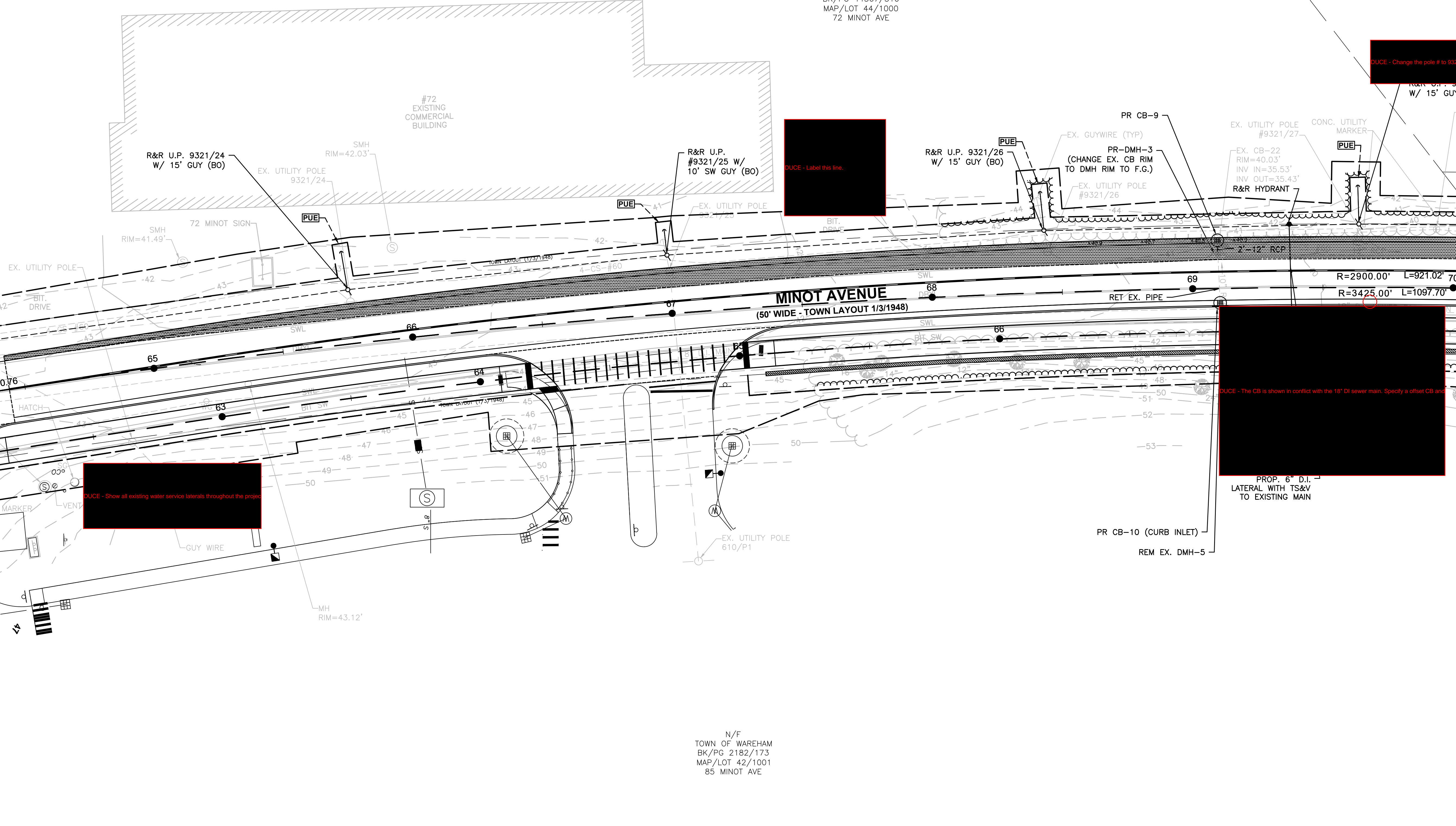
EX. UTILITY POLE #9321/26

EX. CB-22 RIM=40.03' INV IN=35.53' INV OUT=35.43' R&R HYDRANT

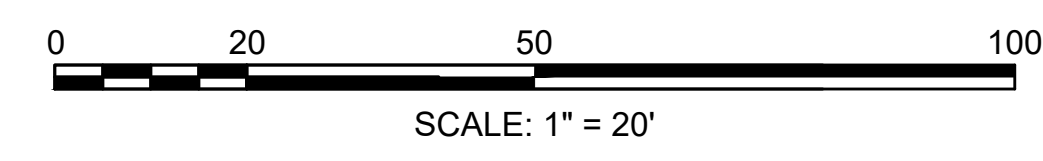
CONC. UTILITY MARKER

R&R U.P. #9321/27 W/ 15' GUY (BO)

TMH RIM=39.02'



DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX. CB-22	69+09.93	13.5' LT	40.03	35.53	35.43	INSTALL MANHOLE RIM TO F.G. TO REPLACE EX. FRAME & GRATE
PR-DMH-3	69+09.93	13.5' LT	40.45	35.53	35.43	
PR CB-9	69+09.81	12.1' LT	16.70		35.60	DEEP SUMP CB, 4' DIA.
EX. DMH-5	69+11.00	13.8' RT	41.10		35.86	TO BE REMOVED
PR CB-10	69+10.47	5.65' RT	40.33		35.80 (EXIST.)	DEEP SUMP CB, 4' DIA.



CONTINUED ON SHEET NO 61

CONTINUED ON SHEET NO 63

MINOT FOREST NATURE TRAIL

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

EX. UTILITY POLE #9321/24

R&R U.P. #9321/24 W/ 15' GUY (BO)

SMH RIM=42.03'

EX. UTILITY POLE #9321/25

R&R U.P. #9321/25 W/ 10' SW GUY (BO)

EX. UTILITY POLE #9321/26

R&R U.P. 9321/26 W/ 15' GUY (BO)

EX. GUYWIRE (TYP)

PR-DMH-3 (CHANGE EX. CB RIM TO DMH RIM TO F.G.)

EX. UTILITY POLE #9321/26

EX. CB-22 RIM=40.03' INV IN=35.53' INV OUT=35.43' R&R HYDRANT

CONC. UTILITY MARKER

R&R U.P. #9321/27 W/ 15' GUY (BO)

TMH RIM=39.02'

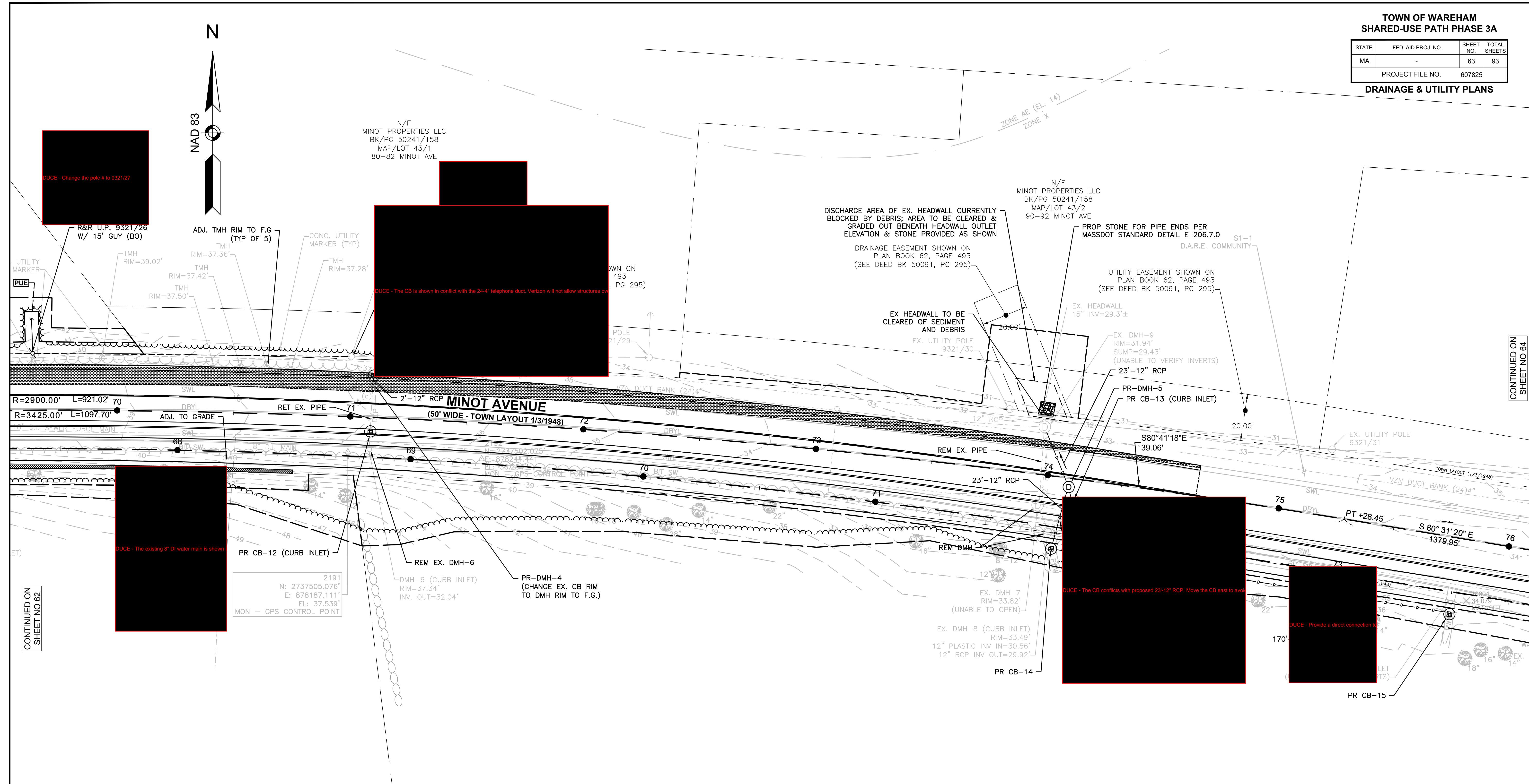
N/F
TOWN OF WAREHAM
BK/PG 2182/173
MAP/LOT 42/1001
85 MINOT AVE

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

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

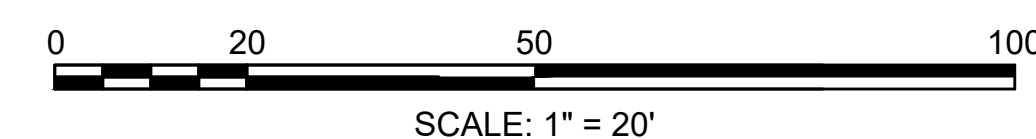
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	63	93
PROJECT FILE NO.		607825	

DRAINAGE & UTILITY PLANS



DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX. CB-23	71+09.11	13.9' LT	36.37	(A) 32.08 (B) 32.08	31.98	INSTALL MANHOLE RIM TO F.G. TO REPLACE EX. FRAME & GRATE
PR-DMH-4	71+09.11	13.9' LT	36.84	(A) 32.08 (B) 32.08	31.98	INSTALL MANHOLE RIM TO F.G. TO REPLACE EX. FRAME & GRATE
PR CB-11	71+08.89	17.9' LT	36.76		32.20	DEEP SUMP CB, 4' DIA.
EX. DMH-6	71+08.82	13.7' RT	37.34		32.04	TO BE REMOVED
PR CB-12	71+08.82	5.96' RT	36.76		32.00 (EXIST.)	DEEP SUMP CB, 4' DIA.
EX DMH-7	73+97.52	13.3' RT	33.82	UNVERIFIED	UNVERIFIED	TO BE REMOVED
EX DMH-8	74+03.74	24.3' RT	33.49	30.56	29.92	TO BE REMOVED
EX DMH-9	73+96.20	20.4' LT	31.94	UNVERIFIED (PR DMH-5) 30.00'	UNVERIFIED	STRUCTURE TO BE CLEARED OF ALL SEDIMENT & DEBRIS; INVERTS TO BE VERIFIED
EX CB-24	74+07.61	17.8' RT	32.78		30.85	TO BE REMOVED

DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
PR. CB-13	74+11.71	10.8' RT	33.05		30.55	DEEP SUMP CB, 4' DIA.
PR. CB-14	74+05.54	31.1' RT	33.80	30.65	30.65	DEEP SUMP CB, 4' DIA.; LOCATED AT BOT. OF EX. PAVED WATERWAY
PR. DMH-5	74+09.70	3.8' RT	33.18'	(PR CB-13) 30.50' (PR CB-14) 30.50'	30.50	
CURB INLET	75+92.21	15.2' RT		UNVERIFIED	UNVERIFIED	TO BE REMOVED
PR CB-15	75+92.21	20.6' RT	34.00		31.50	DEEP SUMP CB, 4' DIA.



N/F
BRANDY HILL PRESERVATION ASSOCIATES
LIMITED PARTNERSHIP
BK/PG 47659/145
MAP/LOT 41/3
105 MINOT AVE

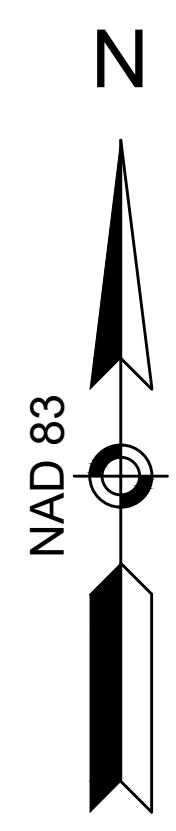
CONTINUED ON
SHEET NO 62

CONTINUED ON
SHEET NO 64

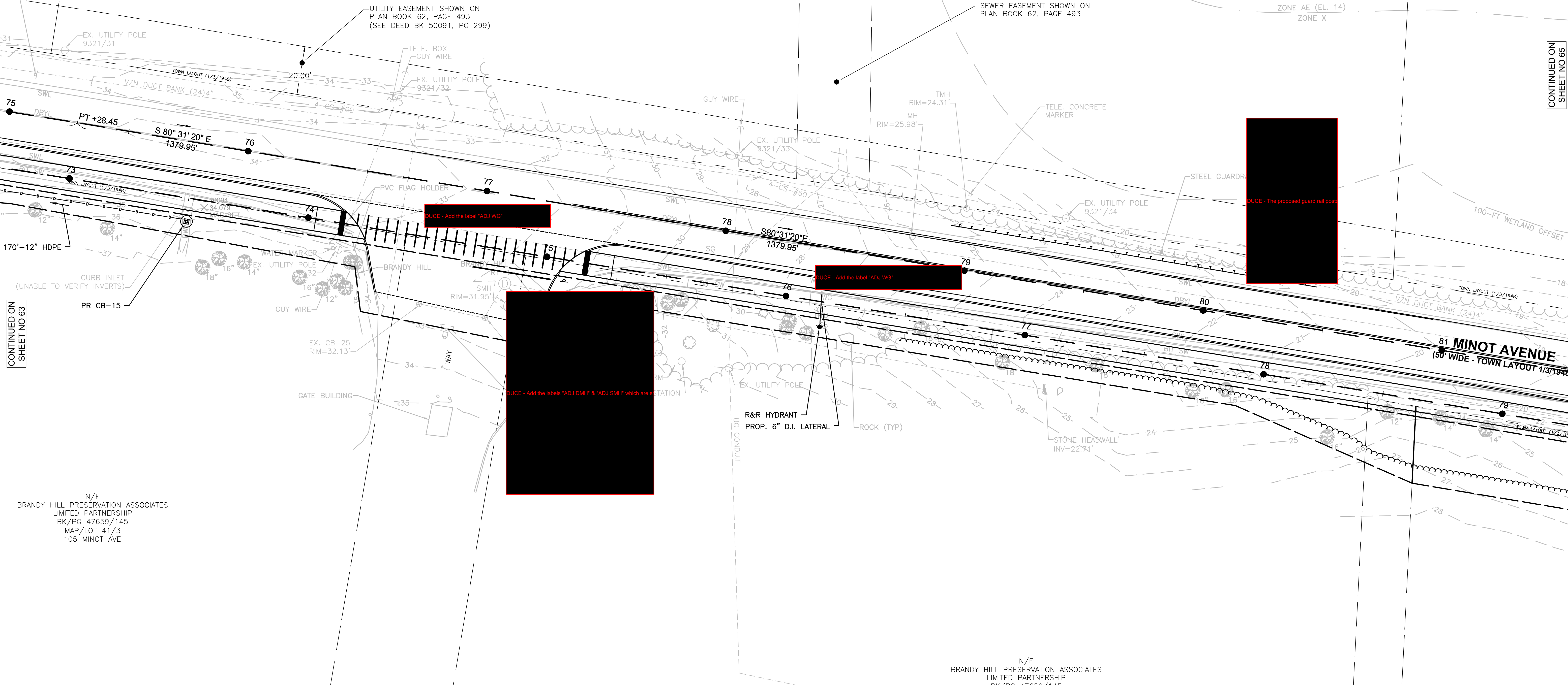
TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	64	93
PROJECT FILE NO.		607825	

DRAINAGE & UTILITY PLANS



N/F
MINOT PROPERTIES LLC
BK/PG 50241/158
MAP/LOT 43/3
100-102 MINOT AVE



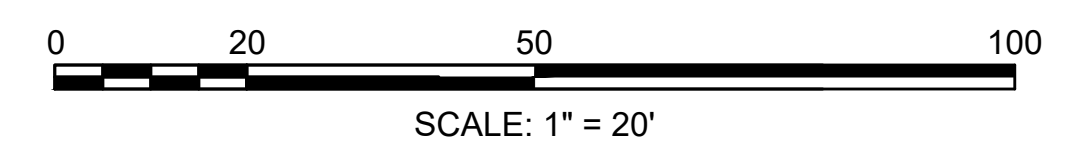
CONTINUED ON
SHEET NO 63

CONTINUED ON
SHEET NO 65

N/F
BRANDY HILL PRESERVATION ASSOCIATES
LIMITED PARTNERSHIP
BK/PG 47659/145
MAP/LOT 41/3
105 MINOT AVE

N/F
BRANDY HILL PRESERVATION ASSOCIATES
LIMITED PARTNERSHIP
BK/PG 47659/145
MAP/LOT 41/1
105 MINOT AVE

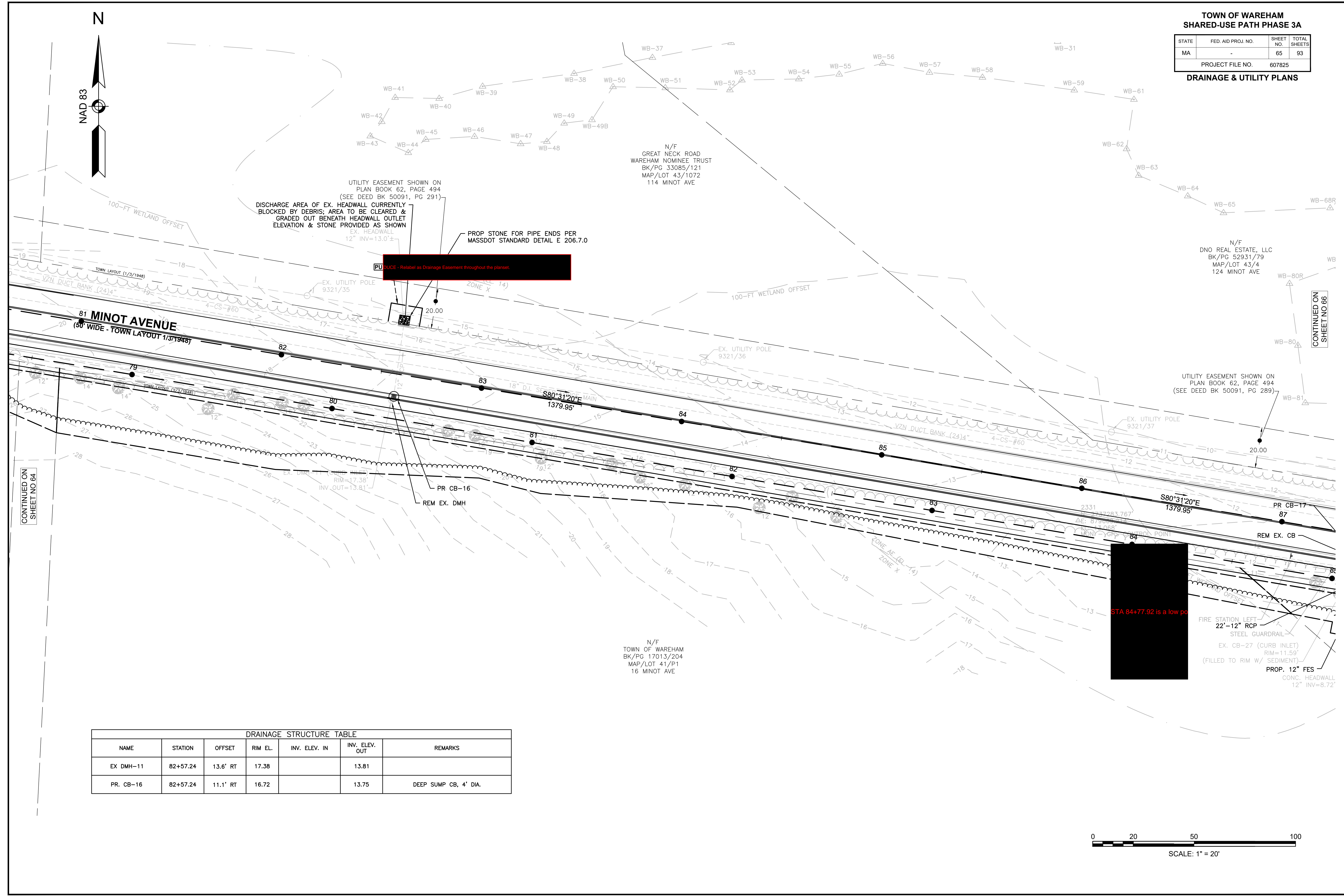
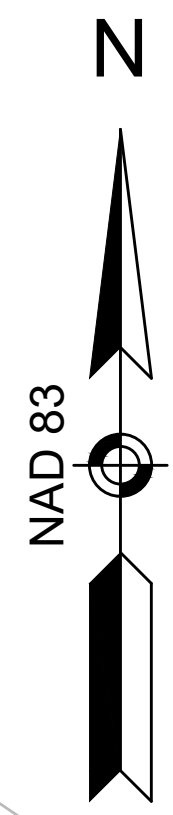
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX. CB-25	76+79.98	50.6' RT	32.13		28.66	SEDIMENT TO EL. 28.1'
EX. CB-26	77+07.86	51.9' RT	32.26	28.87	28.75	SEDIMENT TO EL. 28.4'
EX. DMH-10	77+13.43	36.6' RT	31.79'	24.95	24.90	SUMP AT 24.6'



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	65	93
PROJECT FILE NO. 607825			

DRAINAGE & UTILITY PLANS



UTILITY EASEMENT SHOWN ON PLAN BOOK 62, PAGE 494 (SEE DEED BK 50091, PG 291)
DISCHARGE AREA OF EX. HEADWALL CURRENTLY BLOCKED BY DEBRIS; AREA TO BE CLEARED & GRADED OUT BENEATH HEADWALL OUTLET ELEVATION & STONE PROVIDED AS SHOWN
EX. HEADWALL 12" INV=13.0'±

PROP STONE FOR PIPE ENDS PER MASSDOT STANDARD DETAIL E 206.7.0

REPLACE - Relabel as Drainage Easement throughout the planset.

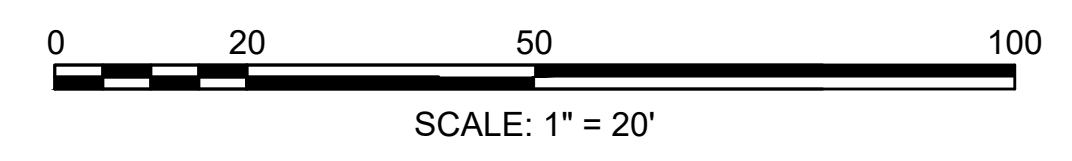
N/F DNO REAL ESTATE, LLC
BK/PG 52931/79
MAP/LOT 43/4
124 MINOT AVE

UTILITY EASEMENT SHOWN ON PLAN BOOK 62, PAGE 494 (SEE DEED BK 50091, PG 289)

N/F TOWN OF WAREHAM
BK/PG 17013/204
MAP/LOT 41/P1
16 MINOT AVE

STA 84+77.92 is a low po

DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX DMH-11	82+57.24	13.6' RT	17.38		13.81	
PR. CB-16	82+57.24	11.1' RT	16.72		13.75	DEEP SUMP CB, 4' DIA.



CONTINUED ON SHEET NO 64

CONTINUED ON SHEET NO 66

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	66	93
PROJECT FILE NO. 607825			

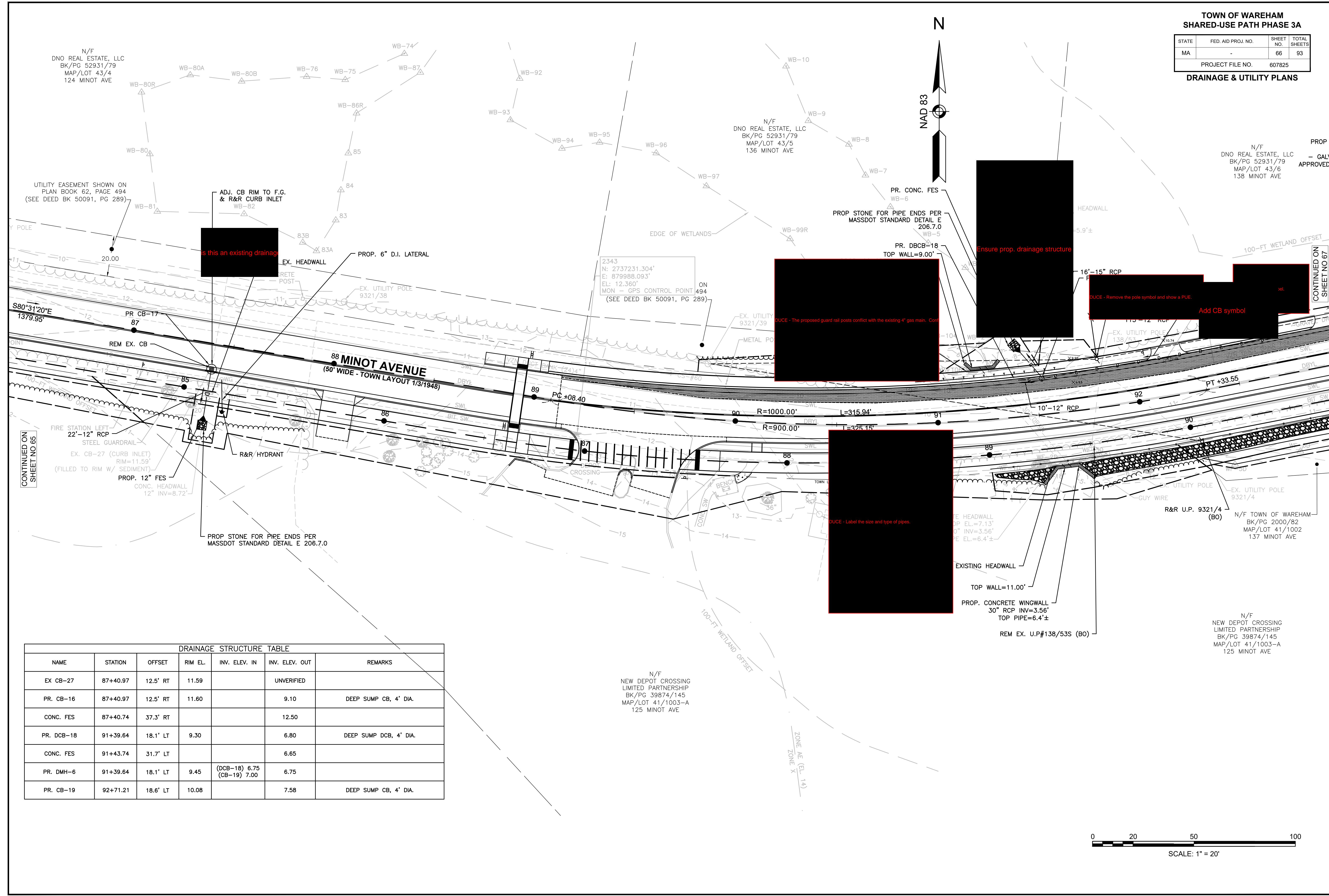
DRAINAGE & UTILITY PLANS

PROP 1
- GALVA
APPROVED

N/F
DNO REAL ESTATE, LLC
BK/PG 52931/79
MAP/LOT 43/6
138 MINOT AVE

N/F
DNO REAL ESTATE, LLC
BK/PG 52931/79
MAP/LOT 43/5
136 MINOT AVE

N/F
DNO REAL ESTATE, LLC
BK/PG 52931/79
MAP/LOT 43/4
124 MINOT AVE



CONTINUED ON
SHEET NO 65

CONTINUED ON
SHEET NO 67

ADJ. CB RIM TO F.G.
& R&R CURB INLET

is this an existing drainage

DUCE - The proposed guard rail posts conflict with the existing 4" gas main. Conf

Ensure prop. drainage structure

DUCE - Remove the pole symbol and show a PUE.

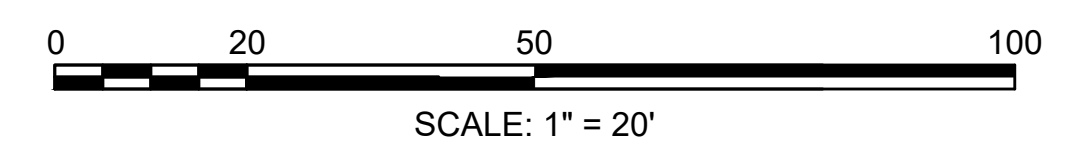
Add CB symbol

DUCE - Label the size and type of pipes.

DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX CB-27	87+40.97	12.5' RT	11.59		UNVERIFIED	
PR. CB-16	87+40.97	12.5' RT	11.60		9.10	DEEP SUMP CB, 4' DIA.
CONC. FES	87+40.74	37.3' RT			12.50	
PR. DCB-18	91+39.64	18.1' LT	9.30		6.80	DEEP SUMP DCB, 4' DIA.
CONC. FES	91+43.74	31.7' LT			6.65	
PR. DMH-6	91+39.64	18.1' LT	9.45	(DCB-18) 6.75 (CB-19) 7.00	6.75	
PR. CB-19	92+71.21	18.6' LT	10.08		7.58	DEEP SUMP CB, 4' DIA.

N/F
NEW DEPOT CROSSING
LIMITED PARTNERSHIP
BK/PG 39874/145
MAP/LOT 41/1003-A
125 MINOT AVE

N/F
NEW DEPOT CROSSING
LIMITED PARTNERSHIP
BK/PG 39874/145
MAP/LOT 41/1003-A
125 MINOT AVE



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

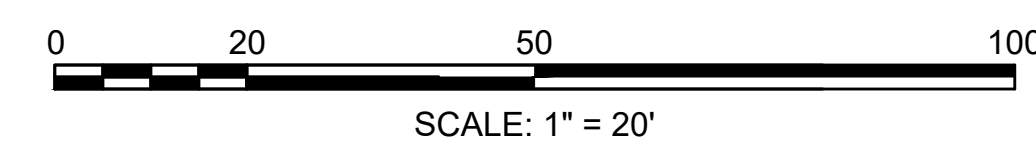
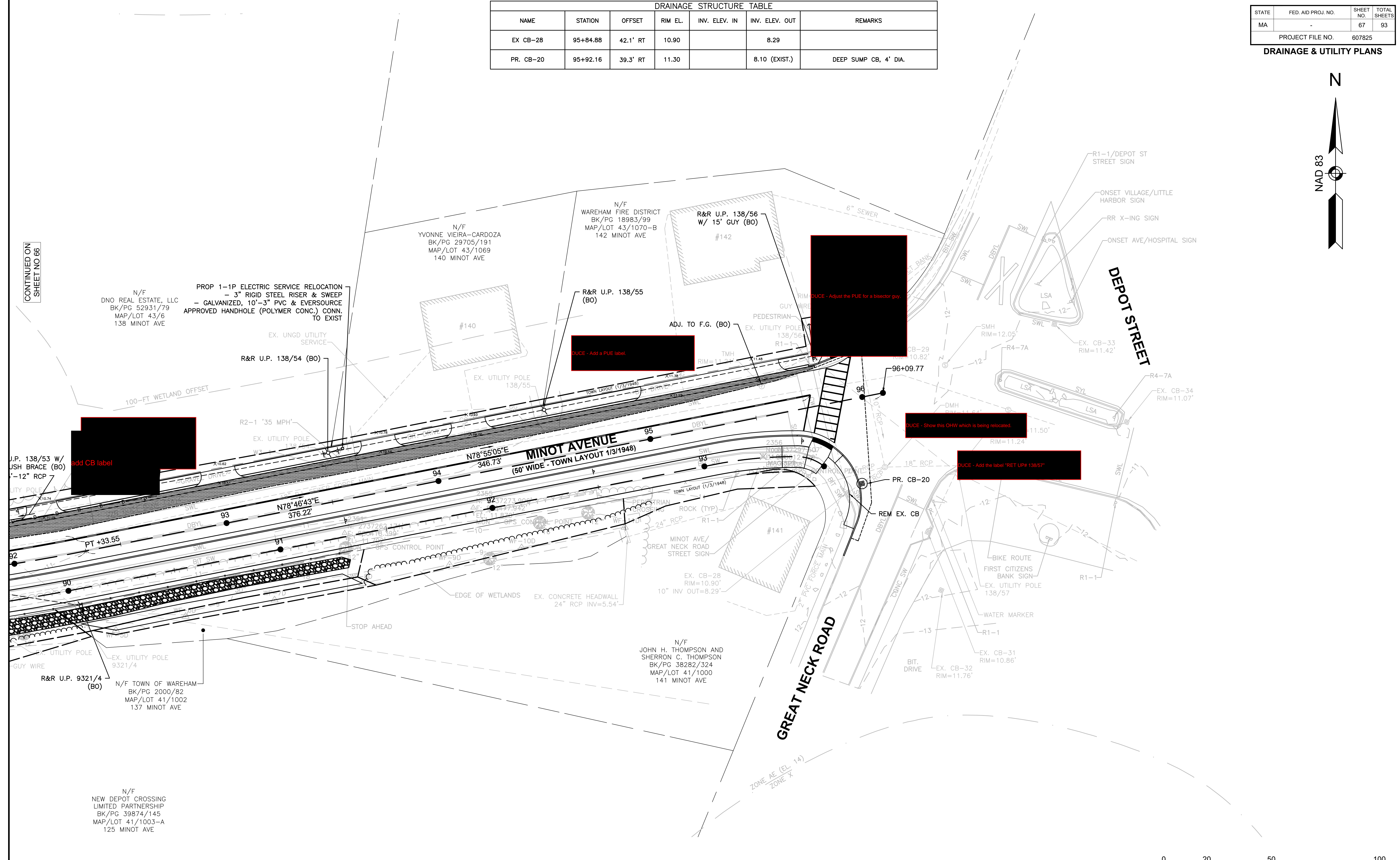
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	67	93
PROJECT FILE NO.		607825	

DRAINAGE & UTILITY PLANS

DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM EL.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
EX CB-28	95+84.88	42.1' RT	10.90		8.29	
PR. CB-20	95+92.16	39.3' RT	11.30		8.10 (EXIST.)	DEEP SUMP CB, 4' DIA.



CONTINUED ON SHEET NO. 66



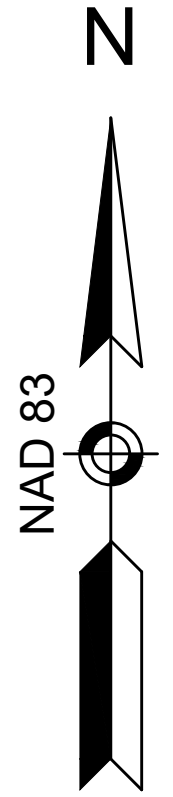
**TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	68	93
PROJECT FILE NO.		607825	

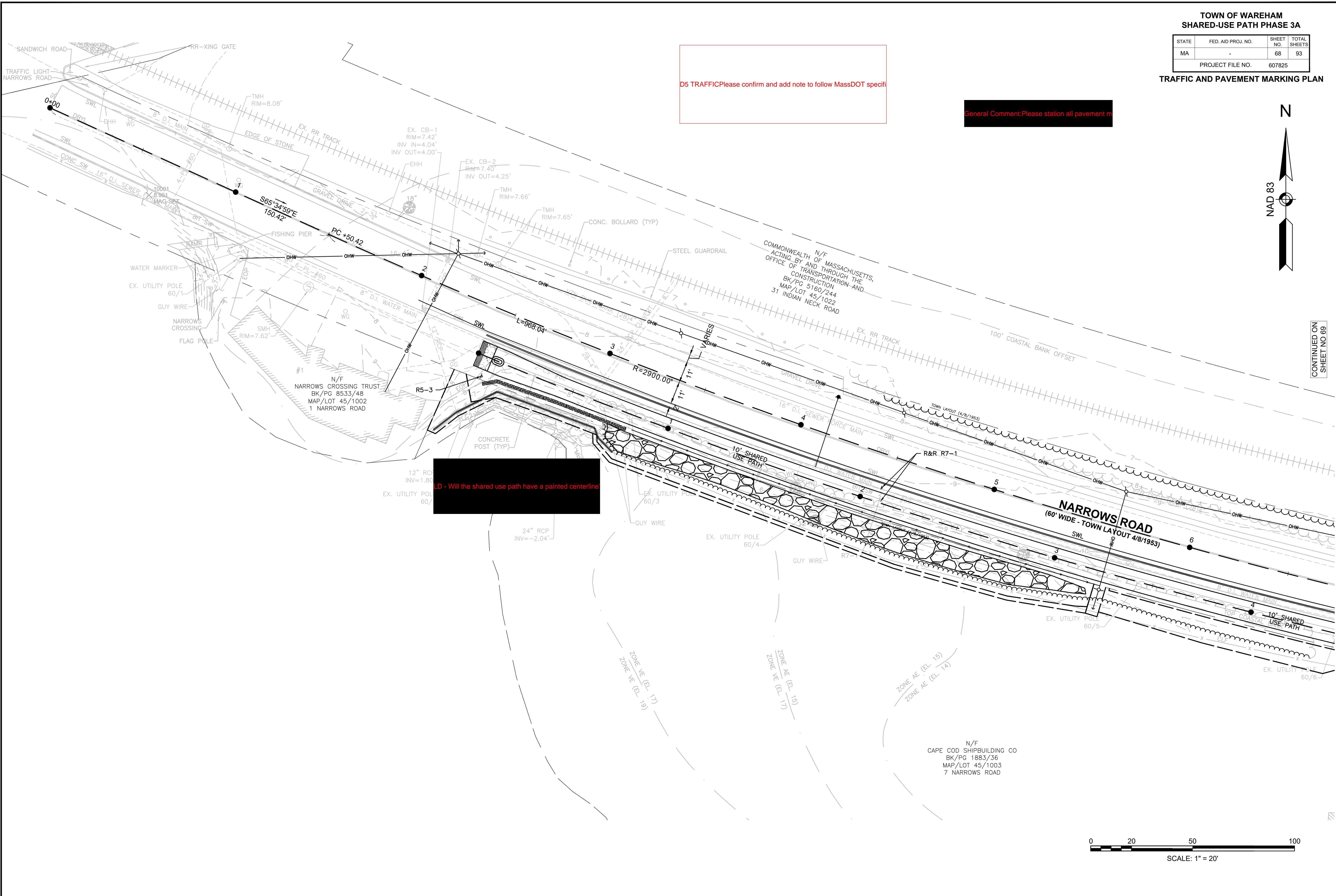
TRAFFIC AND PAVEMENT MARKING PLAN

D5 TRAFFIC Please confirm and add note to follow MassDOT specifi

General Comment: Please station all pavement m

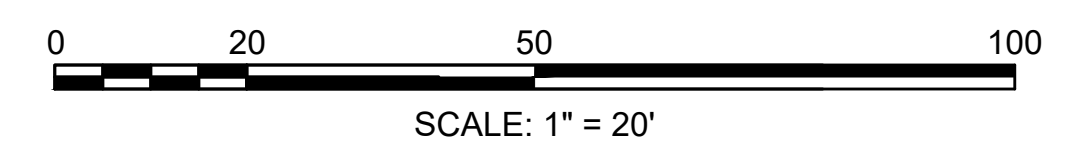


CONTINUED ON
SHEET NO 69



LD - Will the shared use path have a painted centerline

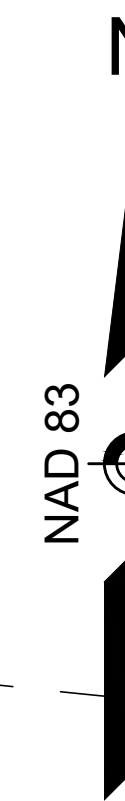
N/F
CAPE COD SHIPBUILDING CO
BK/PG 1883/36
MAP/LOT 45/1003
7 NARROWS ROAD



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	69	93
PROJECT FILE NO. 607825			

TRAFFIC AND PAVEMENT MARKING PLAN



D5 TRAFFIC Please confirm and add note to follow MassDOT specifi

N/F
COMMONWEALTH OF MASSACHUSETTS,
ACTING BY AND THROUGH THE
OFFICE OF TRANSPORTATION AND
CONSTRUCTION
BK/PG 5160/244
MAP/LOT 45/1022
31 INDIAN NECK ROAD

CONTINUED ON
SHEET NO 70

CONTINUED ON
SHEET NO 68

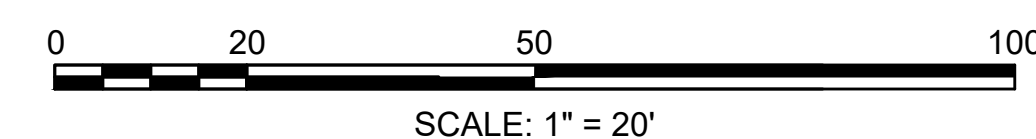
Please consider to refine the prop. SWL pavement

Highway Design - Complete Streets Consider using high visibility ladder style cross

D5 TRAFFIC Please show

As pr

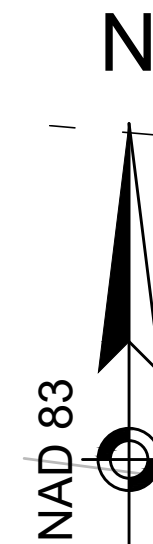
N/F
CAPE COD SHIPBUILDING CO
BK/PG 1883/36
MAP/LOT 45/1003
7 NARROWS ROAD



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	70	93
PROJECT FILE NO. 607825			

TRAFFIC AND PAVEMENT MARKING PLAN



N/F
COMMONWEALTH OF MASSACHUSETTS,
ACTING BY AND THROUGH THE
OFFICE OF TRANSPORTATION AND
CONSTRUCTION
BK/PG 5160/244
MAP/LOT 45/1022
31 INDIAN NECK ROAD

SEWER EASEMENT SHOWN ON
PLAN BOOK 23, PAGE 653
(SEE DEED BK 5318, PG 6)

SEWER EASEMENT SHOWN ON
PLAN BOOK 23, PAGE 652
(SEE DEED BK 5318, PG 1)

CONTINUED ON
SHEET NO 71

Please consider to refine the pr

All existing signs shall be labeled with sign

Highway Design - Complete Streets
Consider using high visibility ladder style cr

D5 TRAFFIC
Please show

All existing signs shall be

what method are you propose to remove the existing paveme

N/F
CAPE COD SHIPBUILDING CO
BK/PG 1883/36
MAP/LOT 45/1003
7 NARROWS ROAD

N/F
NSTAR ELECTRIC COMPANY
BK/PG 4980/217
MAP/LOT 45/1004
0 NARROWS ROAD

EX. CB-4
RIM=10.34'
INV. OUT=8.51'
SEDIMENT EL.=8.3'±

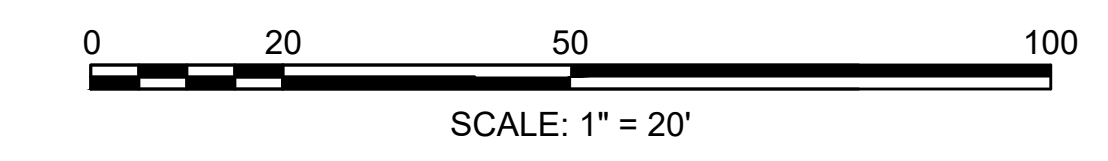
36" CONCRETE PIPE
INV=-0.58'

16" D.I. SEWER FO

12" RCP
INV=8.42'

36" RCP
INV=-0.62'

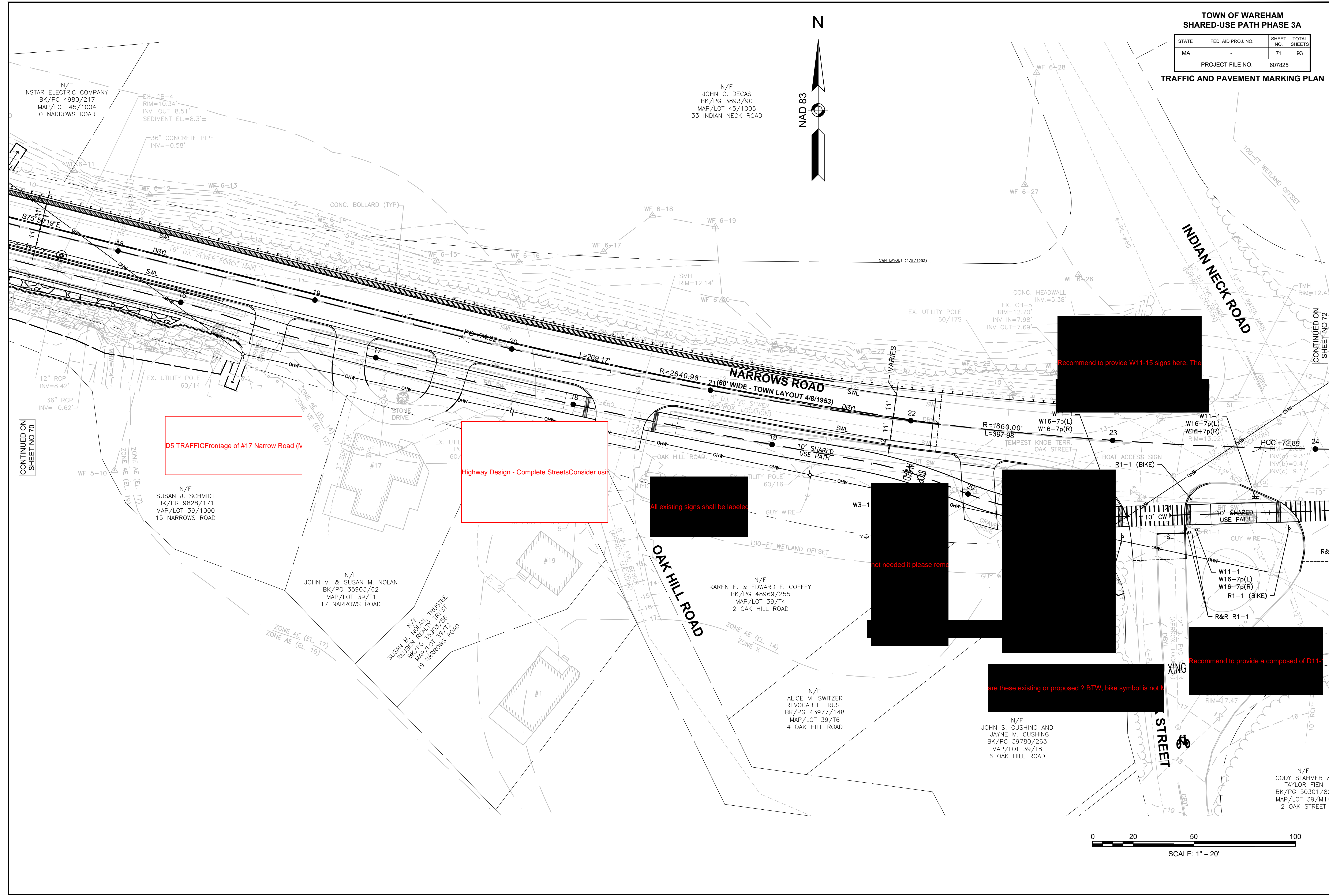
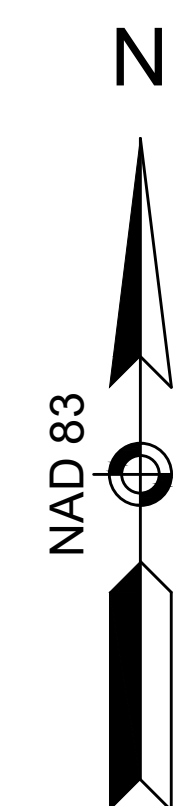
N/F
SUSAN J. SCHMIDT
BK/PG 9828/171
MAP/LOT 39/1000
15 NARROWS ROAD



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	71	93
PROJECT FILE NO.		607825	

TRAFFIC AND PAVEMENT MARKING PLAN



D5 TRAFFIC Frontage of #17 Narrow Road (N)

Highway Design - Complete Streets Consider usi

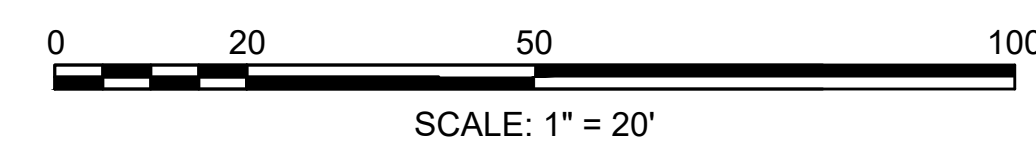
All existing signs shall be labeled

Recommend to provide W11-15 signs here. The

not needed it please rem

Recommend to provide a composed of D11-

are these existing or proposed ? BTW, bike symbol is not M



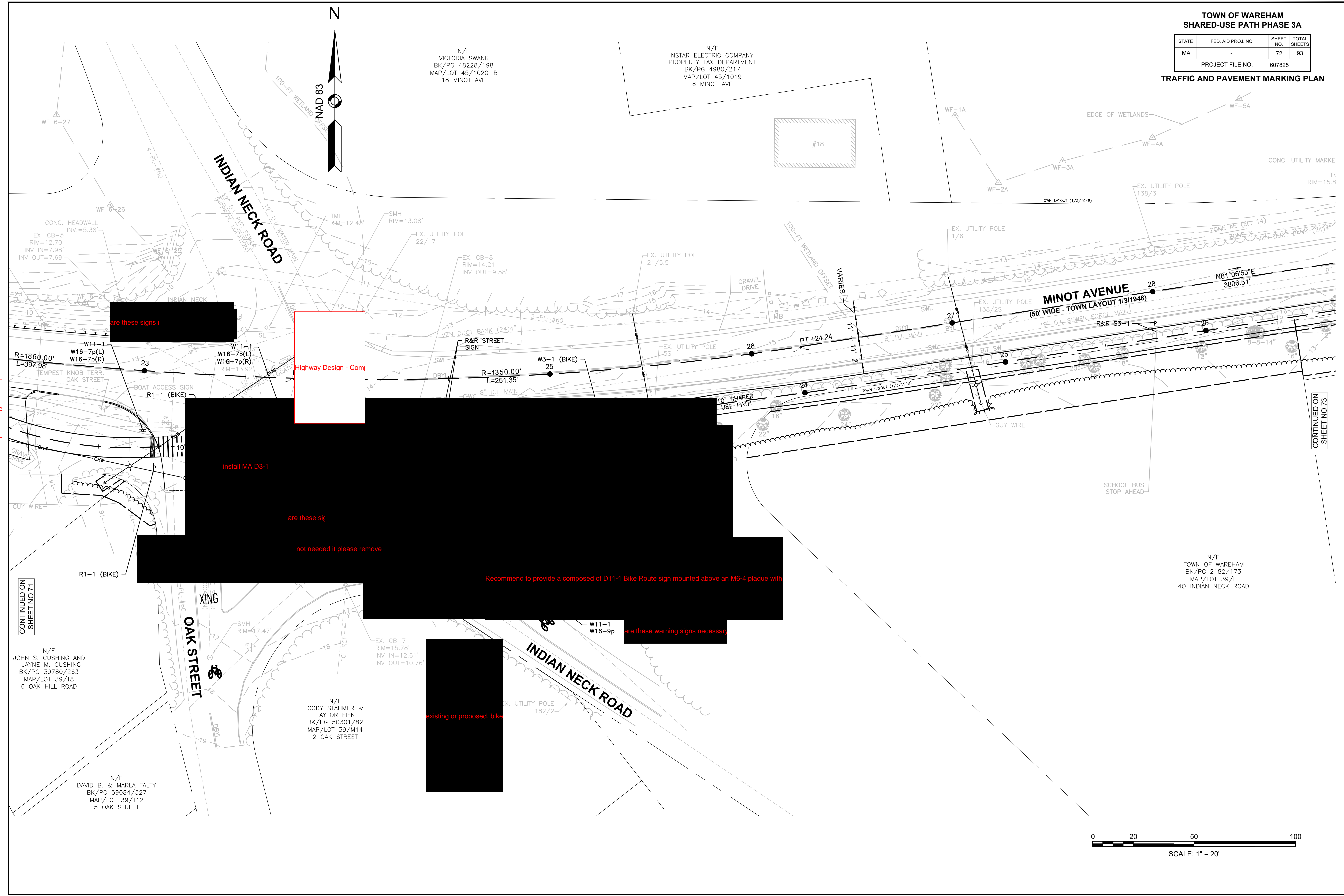
CONTINUED ON SHEET NO 70

CONTINUED ON SHEET NO 72

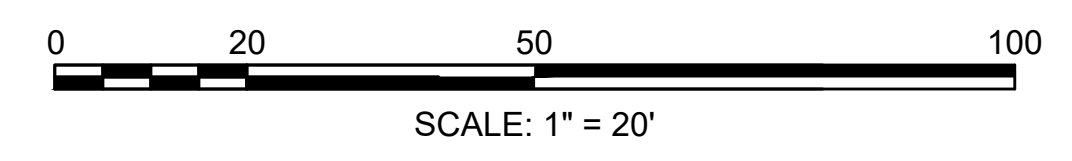
TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	72	93
PROJECT FILE NO. 607825			

TRAFFIC AND PAVEMENT MARKING PLAN



D5 TRAFFICPer stre



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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	74	93
PROJECT FILE NO.		607825	

TRAFFIC AND PAVEMENT MARKING PLAN

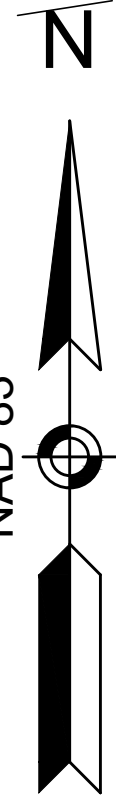
N/F
EDWARD J. &
CHRISTINE E. CALLINAN
BK/PG 18524/198
MAP/LOT 44/3
30 MINOT AVE

N/F
COURTNEY MONTEIRO
BK/PG 49264/274
MAP/LOT 44/2
2 FREIGHT HOUSE ROAD

N/F
ANDREW M. WALKER
BK/PG 50220/212
MAP/LOT 44/4
28 MINOT AVE

N/F
SHAUN E. ROBISON &
REBECCA SNOW
BK/PG 37015/24
MAP/LOT 45/5
24 MINOT AVE

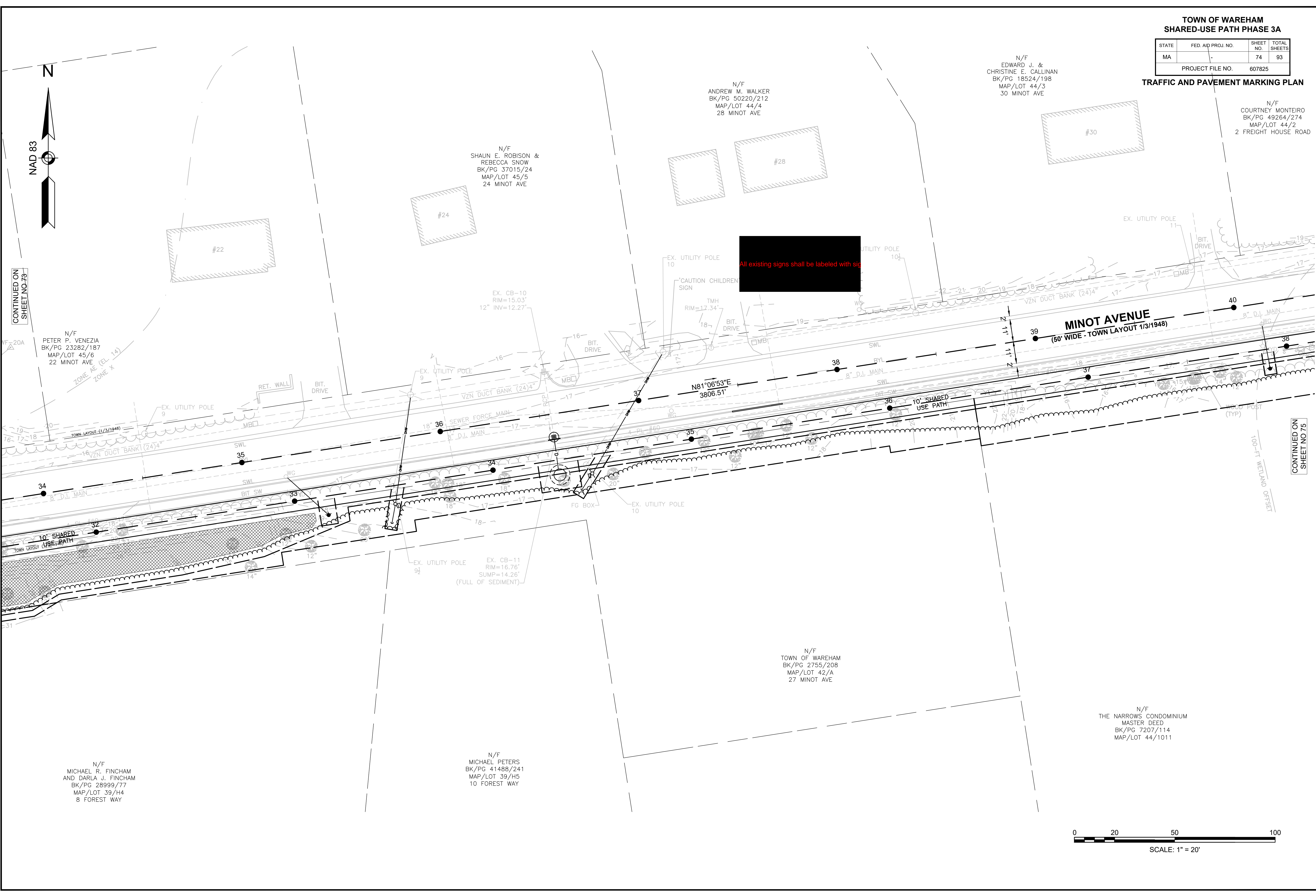
NAD 83



All existing signs shall be labeled with sig

CONTINUED ON
SHEET NO. 73

CONTINUED ON
SHEET NO. 75



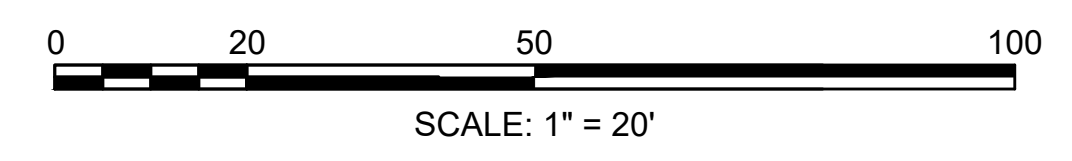
N/F
PETER P. VENEZIA
BK/PG 23282/187
MAP/LOT 45/6
22 MINOT AVE

N/F
TOWN OF WAREHAM
BK/PG 2755/208
MAP/LOT 42/A
27 MINOT AVE

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK/PG 7207/114
MAP/LOT 44/1011

N/F
MICHAEL R. FINCHAM
AND DARLA J. FINCHAM
BK/PG 28999/77
MAP/LOT 39/H4
8 FOREST WAY

N/F
MICHAEL PETERS
BK/PG 41488/241
MAP/LOT 39/H5
10 FOREST WAY

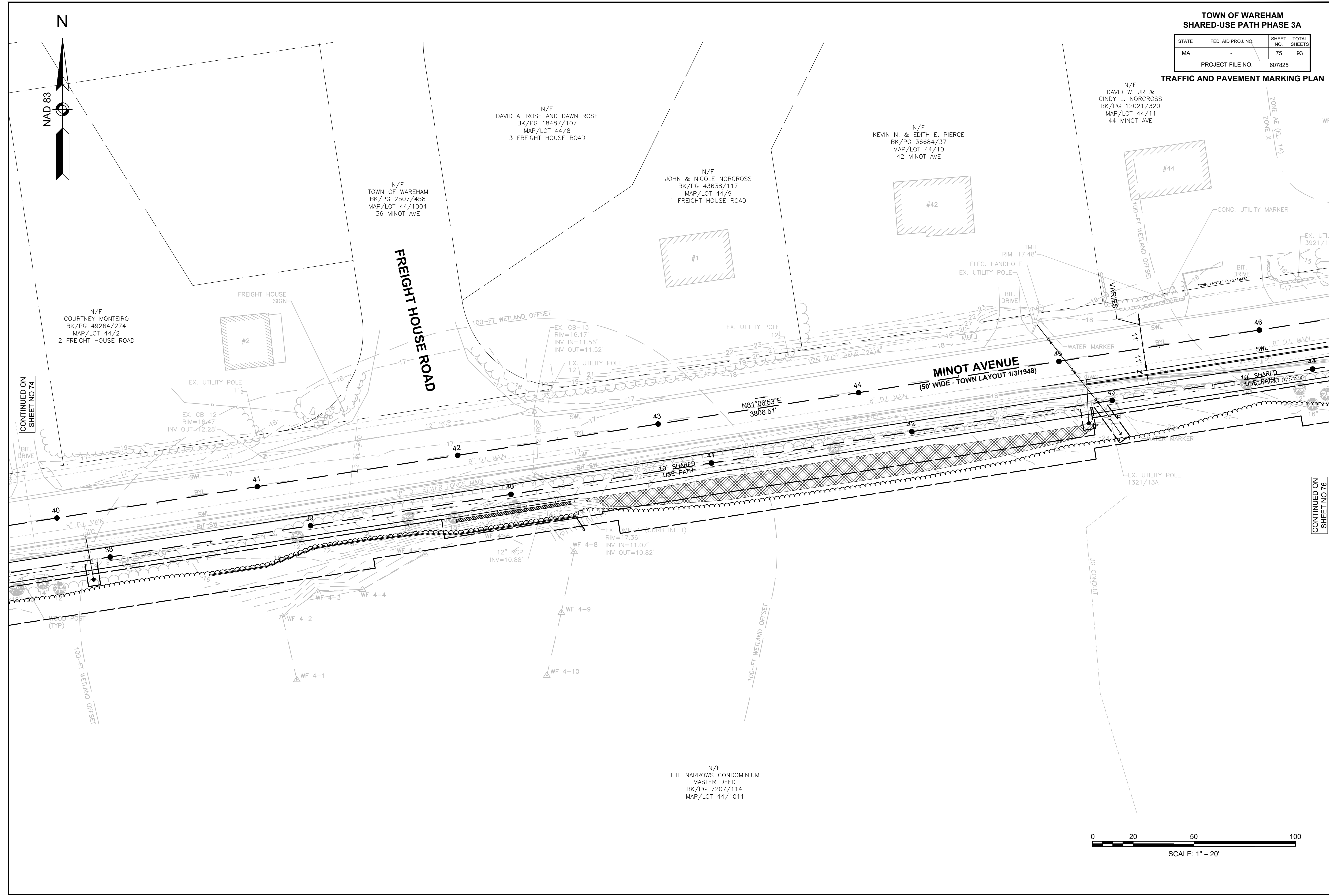
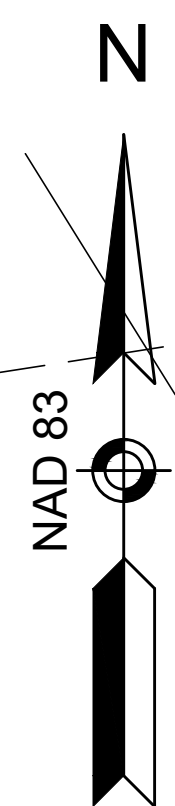


TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	75	93
PROJECT FILE NO.		607825	

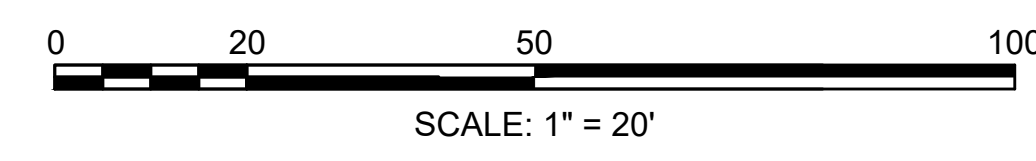
TRAFFIC AND PAVEMENT MARKING PLAN

N/F
DAVID W. JR. &
CINDY L. NORCROSS
BK/PG 12021/320
MAP/LOT 44/11
44 MINOT AVE



CONTINUED ON
SHEET NO 74

CONTINUED ON
SHEET NO 76

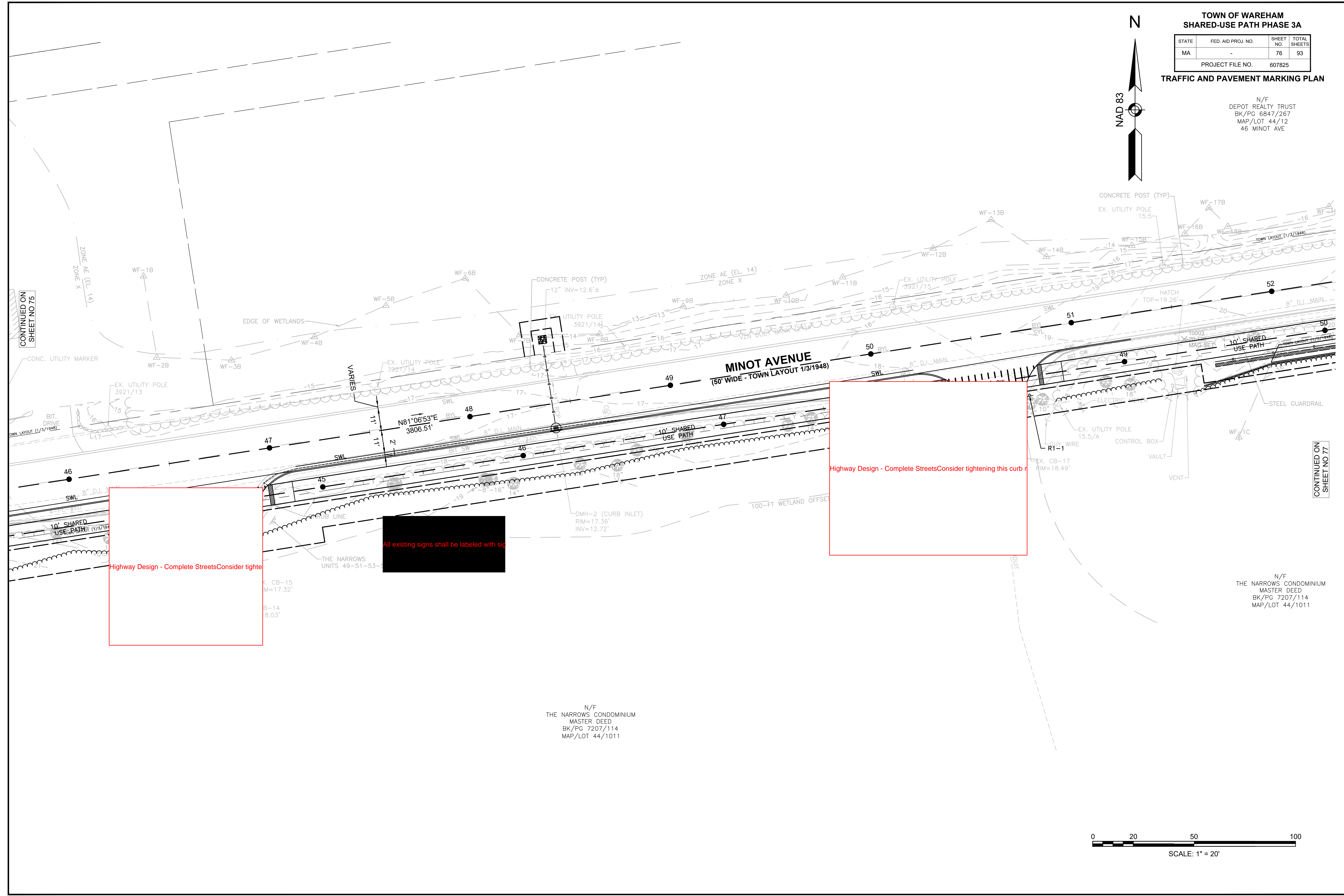
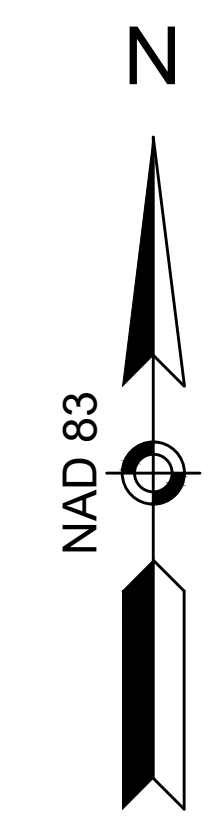


**TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	76	93
PROJECT FILE NO.		607825	

TRAFFIC AND PAVEMENT MARKING PLAN

N/F
DEPOT REALTY TRUST
BK/PG 6847/267
MAP/LOT 44/12
46 MINOT AVE



CONTINUED ON
SHEET NO 75

CONTINUED ON
SHEET NO 77

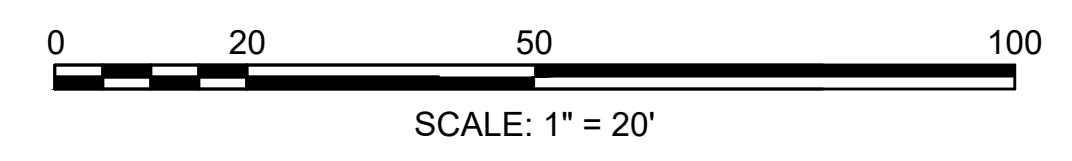
Highway Design - Complete Streets
Consider tightening this curb

All existing signs shall be labeled with sig

Highway Design - Complete Streets
Consider tightening this curb

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK/PG 7207/114
MAP/LOT 44/1011

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK/PG 7207/114
MAP/LOT 44/1011

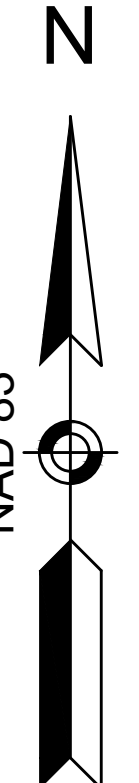


**TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	77	93
PROJECT FILE NO.		607825	

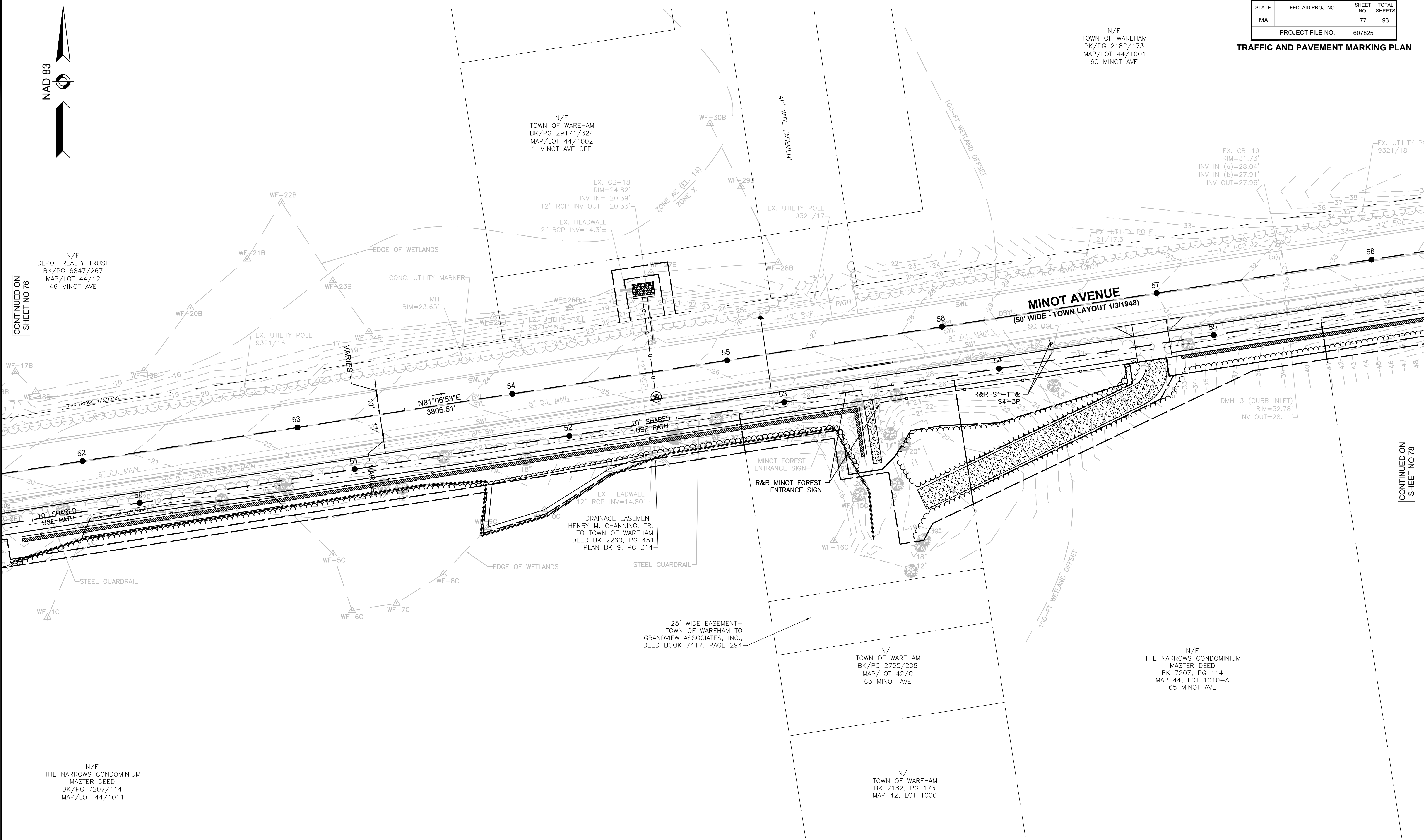
TRAFFIC AND PAVEMENT MARKING PLAN

N/F
TOWN OF WAREHAM
BK/PG 2182/173
MAP/LOT 44/1001
60 MINOT AVE



CONTINUED ON
SHEET NO 76

CONTINUED ON
SHEET NO 78



N/F
DEPOT REALTY TRUST
BK/PG 6847/267
MAP/LOT 44/12
46 MINOT AVE

N/F
TOWN OF WAREHAM
BK/PG 29171/324
MAP/LOT 44/1002
1 MINOT AVE OFF

EX. CB-19
RIM=31.73'
INV IN (a)=28.04'
INV IN (b)=27.91'
INV OUT=27.96'

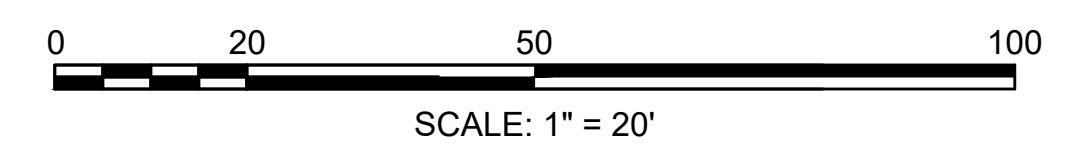
DMH-3 (CURB INLET)
RIM=32.78'
INV OUT=28.11'

DRAINAGE EASEMENT
HENRY M. CHANNING, JR.
TO TOWN OF WAREHAM
DEED BK 2260, PG 451
PLAN BK 9, PG 314

N/F
TOWN OF WAREHAM
BK/PG 2755/208
MAP/LOT 42/C
63 MINOT AVE

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK 7207, PG 114
MAP 44, LOT 1010-A
65 MINOT AVE

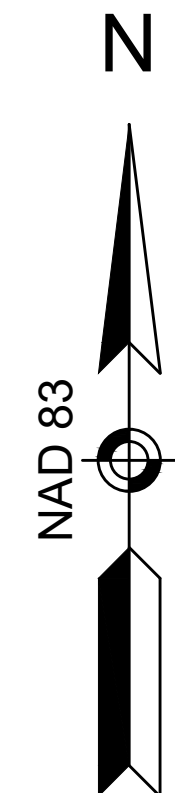
N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK/PG 7207/114
MAP/LOT 44/1011



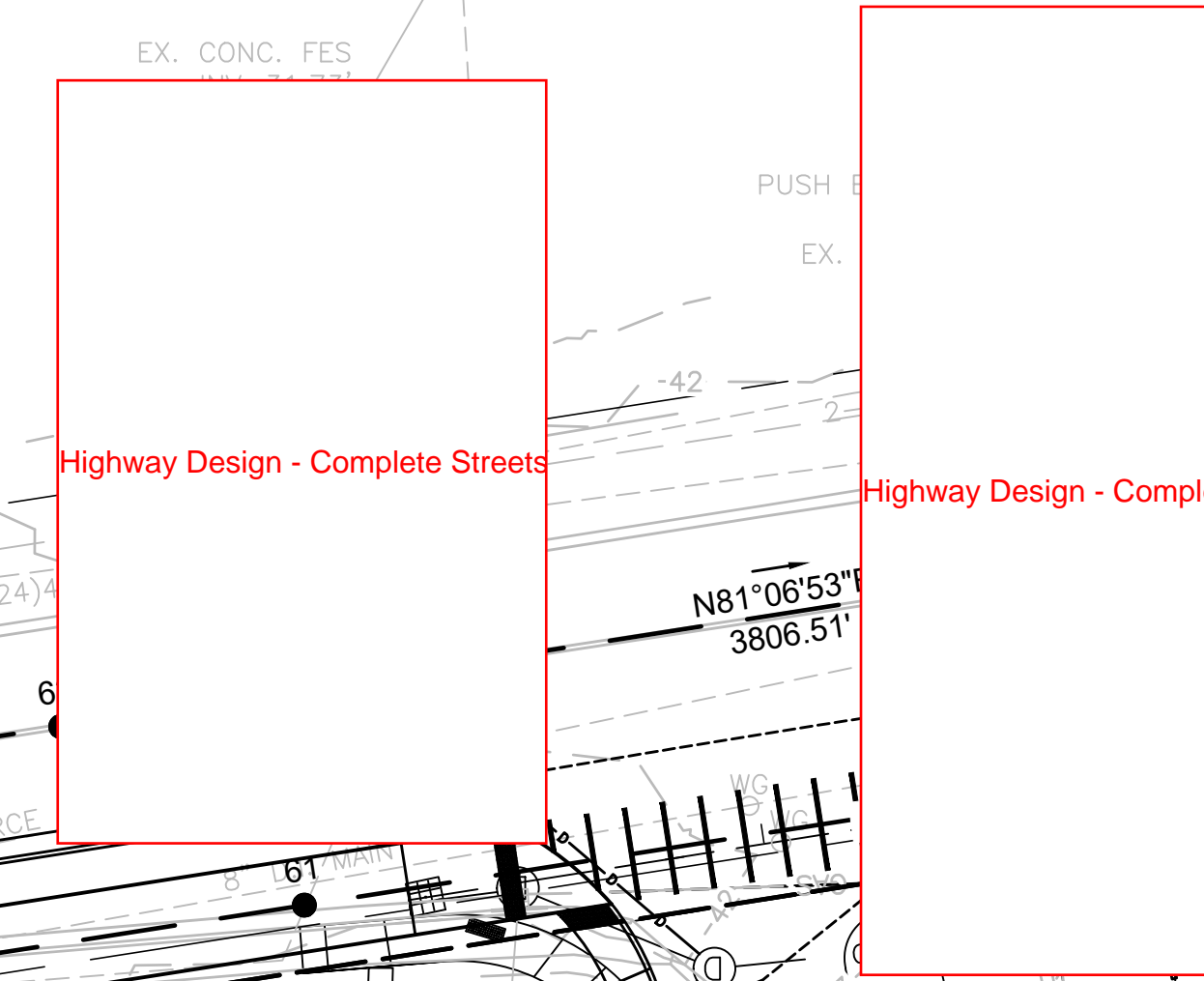
TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	78	93
PROJECT FILE NO.		607825	

TRAFFIC AND PAVEMENT MARKING PLAN

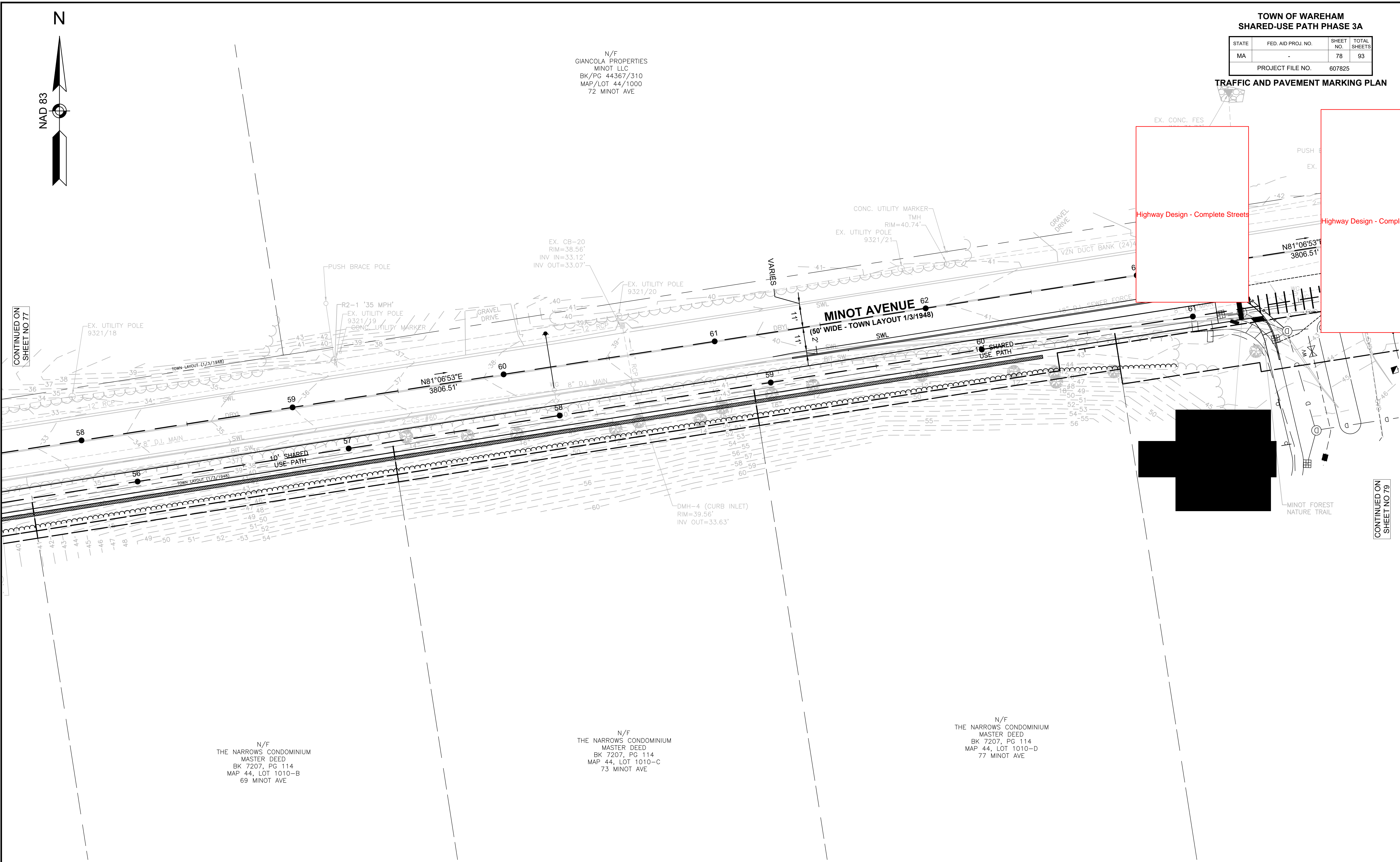


N/F
GIANCOLA PROPERTIES
MINOT LLC
BK/PG 44367/310
MAP/LOT 44/1000
72 MINOT AVE



CONTINUED ON
SHEET NO 77

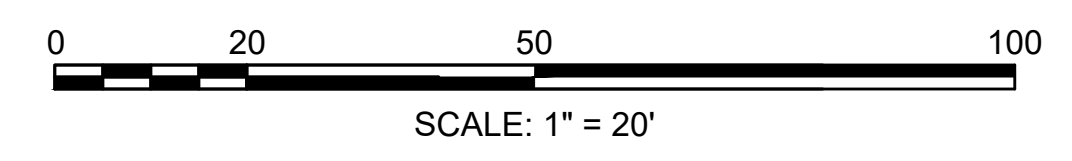
CONTINUED ON
SHEET NO 79



N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK 7207, PG 114
MAP 44, LOT 1010-B
69 MINOT AVE

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK 7207, PG 114
MAP 44, LOT 1010-C
73 MINOT AVE

N/F
THE NARROWS CONDOMINIUM
MASTER DEED
BK 7207, PG 114
MAP 44, LOT 1010-D
77 MINOT AVE





NAD 83

CONTINUED ON SHEET NO 78

TOWN OF WAREHAM SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	79	93
PROJECT FILE NO.		607825	

TRAFFIC AND PAVEMENT MARKING PLAN

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

General Comment: Please station all pavement marking transitions.

Highway Design - Complete Streets Consider tightening this curb radius to slow turning vehicles.

Please consider to refine the prop. SWL pavement markings

Highway Design - Complete Streets Extend median nose through crosswalk.

D5 TRAFFIC Per aerial view, this is a new Pro Driveway access. Please show dimensions, including square width, island width, curves radius etc.

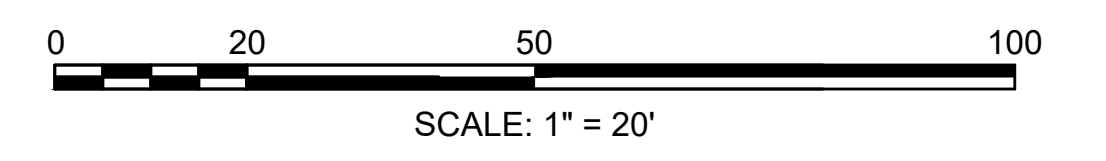
What's the proposed signs on the new sign posts?

Please consider to refine the prop. CW.

R4-??

R4-??

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



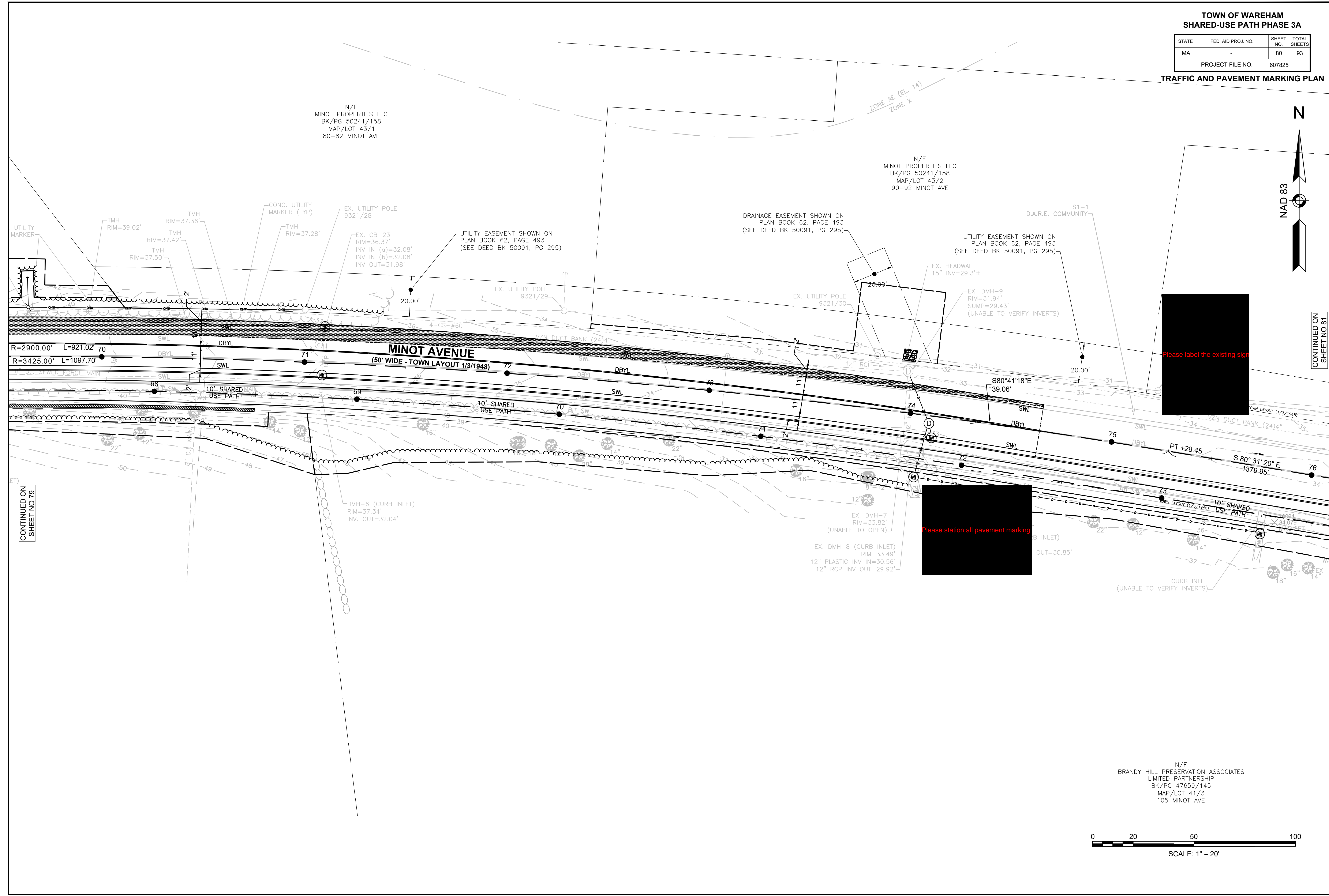
CONTINUED ON SHEET NO 80

607825_HD1(TRAFFIC & PAVEMENT MARKING PLAN).DWG Plotted on: 23-Nov-2020 4:45 PM

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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	80	93
PROJECT FILE NO.		607825	

TRAFFIC AND PAVEMENT MARKING PLAN

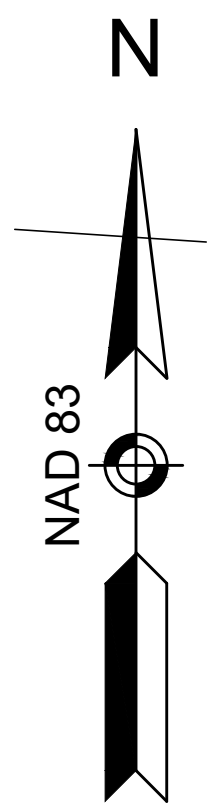


N/F
MINOT PROPERTIES LLC
BK/PG 50241/158
MAP/LOT 43/1
80-82 MINOT AVE

N/F
MINOT PROPERTIES LLC
BK/PG 50241/158
MAP/LOT 43/2
90-92 MINOT AVE

Please label the existing sign

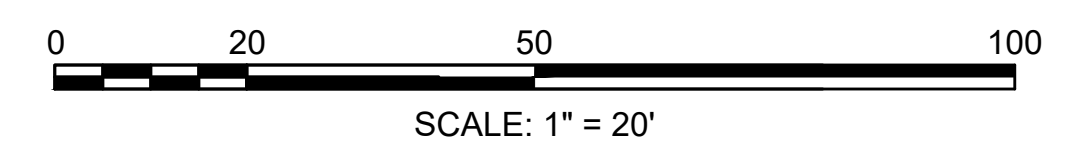
Please station all pavement marking

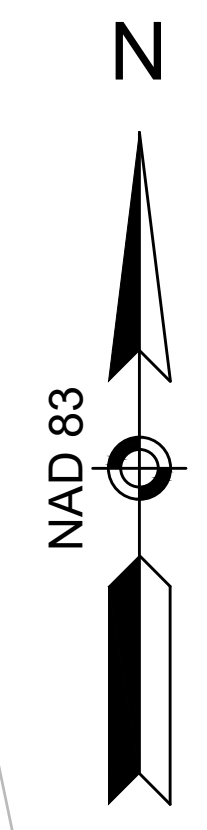


CONTINUED ON
SHEET NO 81

CONTINUED ON
SHEET NO 79

N/F
BRANDY HILL PRESERVATION ASSOCIATES
LIMITED PARTNERSHIP
BK/PG 47659/145
MAP/LOT 41/3
105 MINOT AVE





N/F
MINOT PROPERTIES LLC
BK/PG 50241/158
MAP/LOT 43/3
100-102 MINOT AVE

SEWER EASEMENT SHOWN ON
PLAN BOOK 62, PAGE 493

UTILITY EASEMENT SHOWN ON
PLAN BOOK 62, PAGE 493
(SEE DEED BK 50091, PG 299)

**Highway Design -
Complete Streets**
Consider tightening
this curb radius to
slow turning
vehicles.

Please provide the
street name sign

Label the street

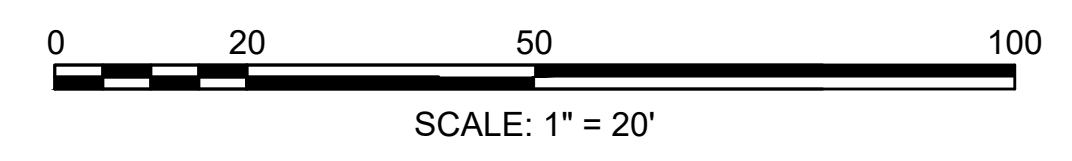
All existing signs shall
be labeled with sign
ID or legend and the
required action to be
taken (i.e. RET, R&S,
R&D, etc.)

CONTINUED ON
SHEET NO 80

CONTINUED ON
SHEET NO 82

N/F
BRANDY HILL PRESERVATION ASSOCIATES
LIMITED PARTNERSHIP
BK/PG 47659/145
MAP/LOT 41/3
105 MINOT AVE

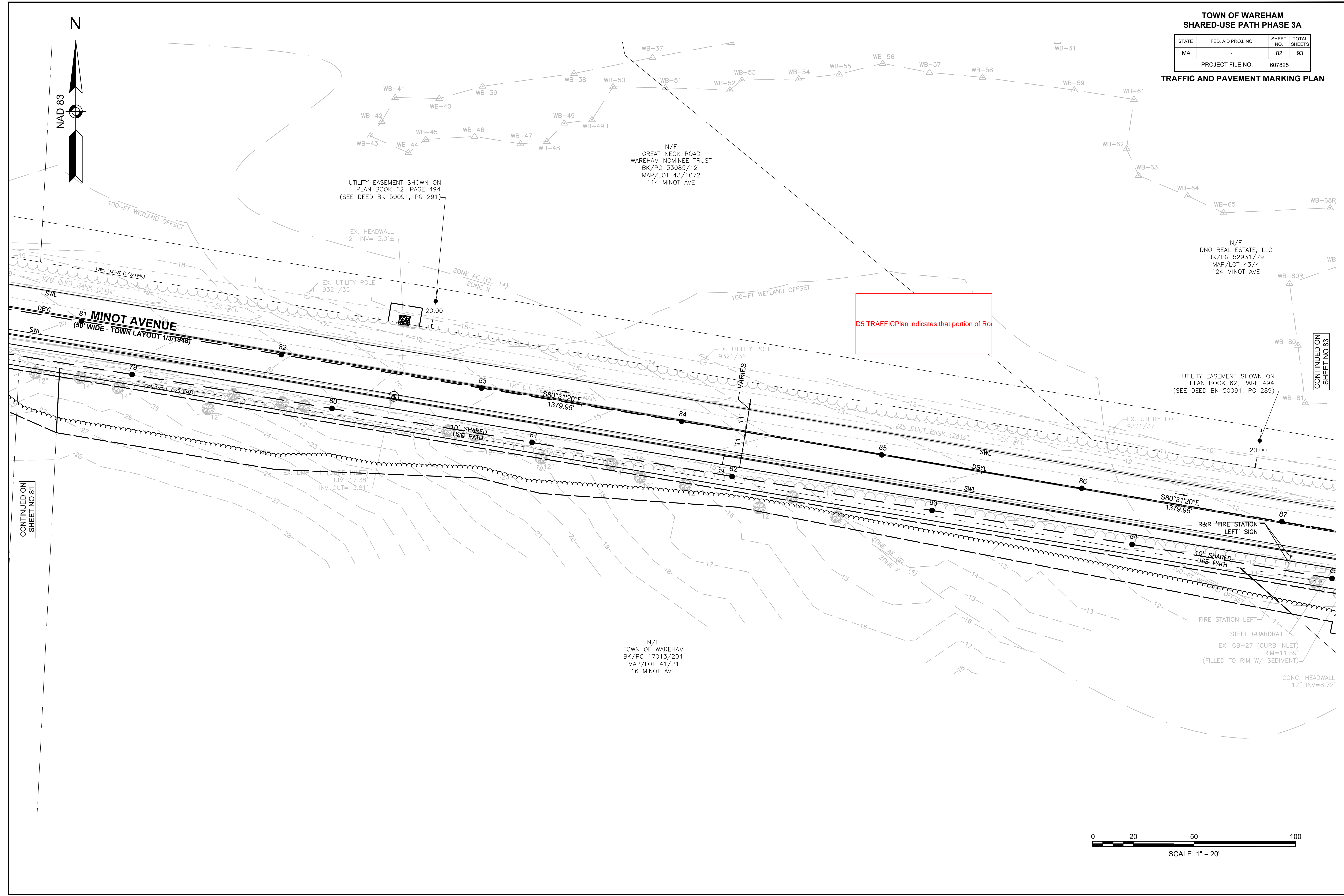
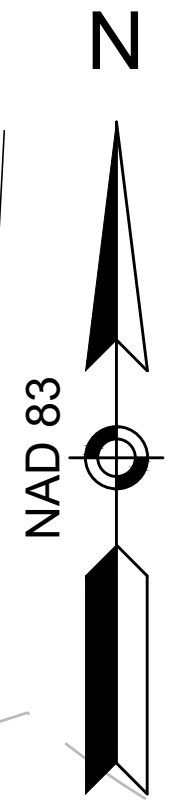
N/F
BRANDY HILL PRESERVATION ASSOCIATES
LIMITED PARTNERSHIP
BK/PG 47659/145
MAP/LOT 41/1
105 MINOT AVE



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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	82	93
PROJECT FILE NO.		607825	

TRAFFIC AND PAVEMENT MARKING PLAN



D5 TRAFFIC Plan indicates that portion of Road

UTILITY EASEMENT SHOWN ON
PLAN BOOK 62, PAGE 494
(SEE DEED BK 50091, PG 291)

N/F
GREAT NECK ROAD
WAREHAM NOMINEE TRUST
BK/PG 33085/121
MAP/LOT 43/1072
114 MINOT AVE

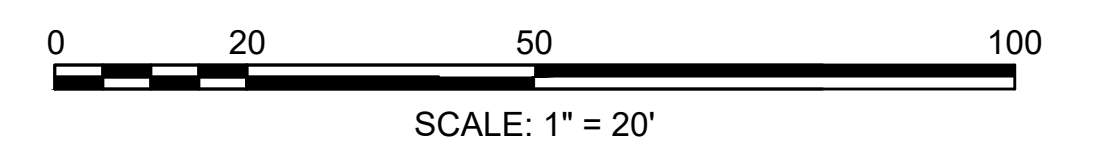
N/F
DNO REAL ESTATE, LLC
BK/PG 52931/79
MAP/LOT 43/4
124 MINOT AVE

UTILITY EASEMENT SHOWN ON
PLAN BOOK 62, PAGE 494
(SEE DEED BK 50091, PG 289)

N/F
TOWN OF WAREHAM
BK/PG 17013/204
MAP/LOT 41/P1
16 MINOT AVE

CONTINUED ON
SHEET NO 81

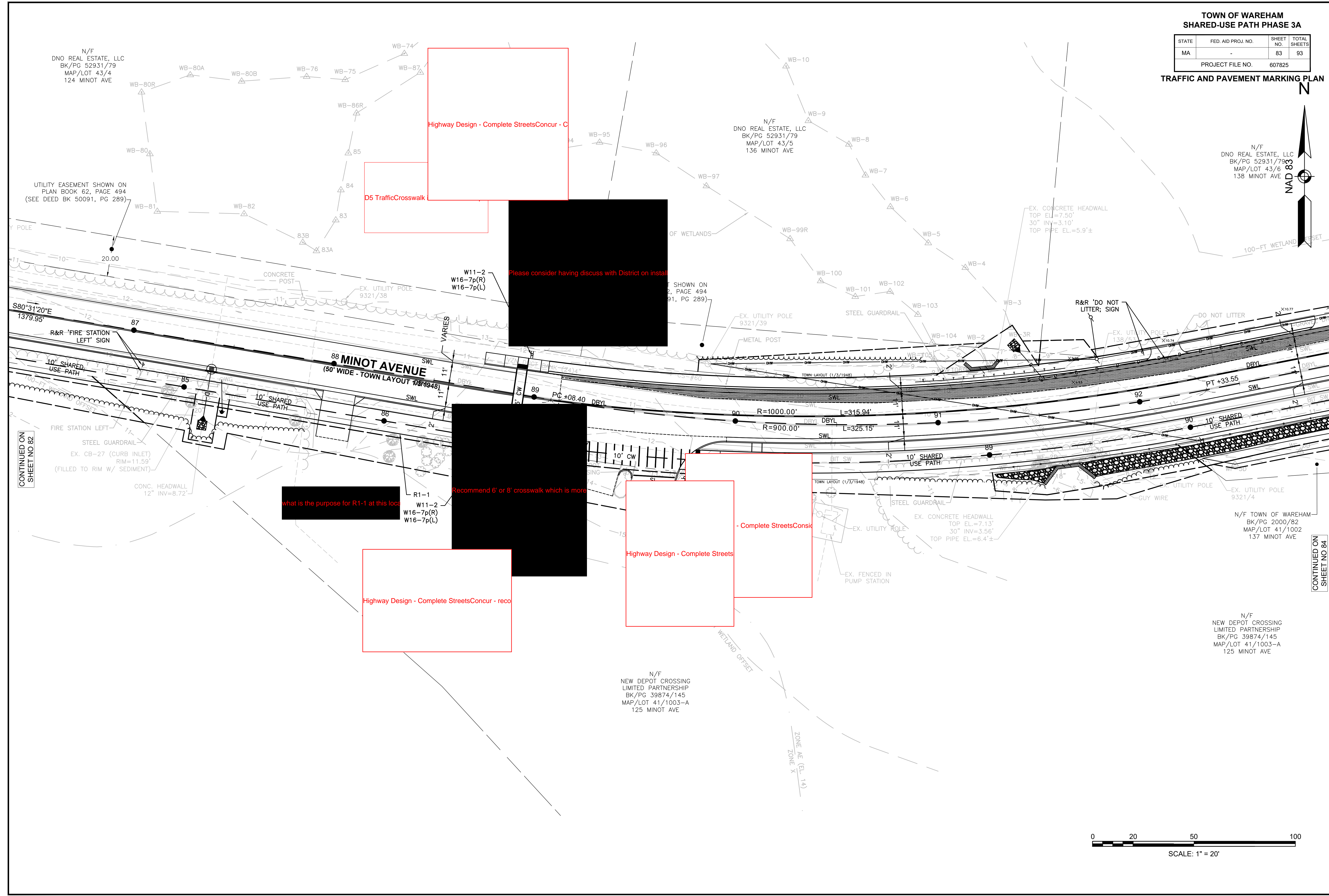
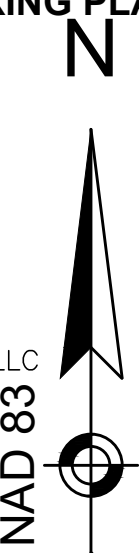
CONTINUED ON
SHEET NO 83



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

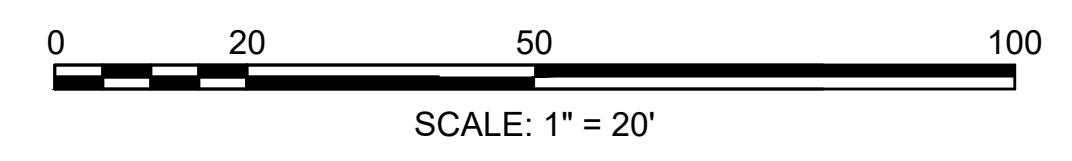
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	83	93
PROJECT FILE NO. 607825			

TRAFFIC AND PAVEMENT MARKING PLAN



CONTINUED ON SHEET NO 82

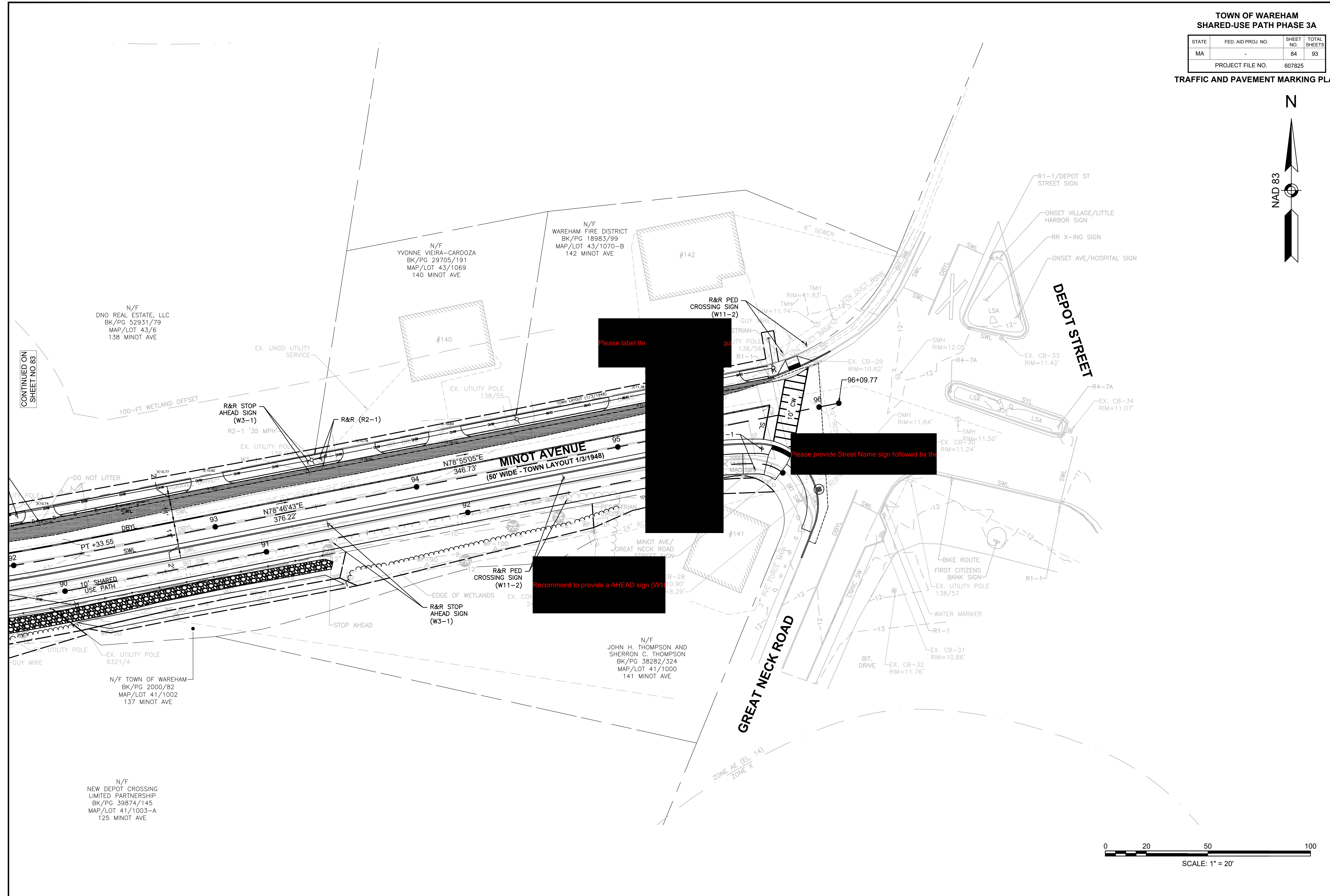
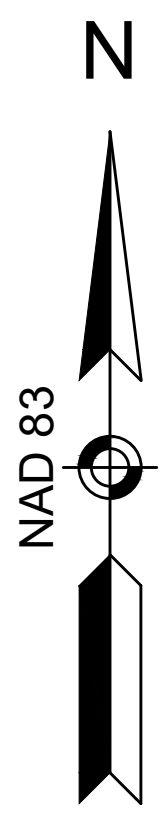
CONTINUED ON SHEET NO 84



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	84	93
PROJECT FILE NO.		607825	

TRAFFIC AND PAVEMENT MARKING PLAN

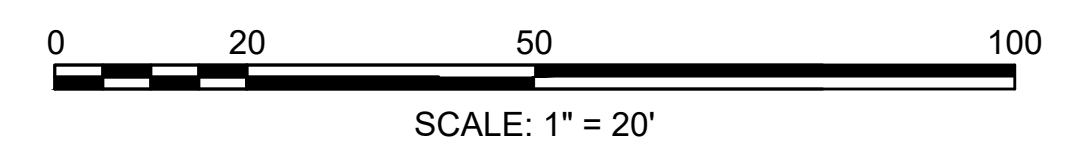


CONTINUED ON
SHEET NO 83

Please label the

Please provide Street Name sign followed by the

Recommend to provide a AHEAD sign (W11-2)



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	85	93
PROJECT FILE NO.		607825	

TRAFFIC SIGN SUMMARY

General Comment:

1. Please revise sign summary to accurately represent what is proposed in the plans, like, adding the Street Name Sign based on MassDOT standard.
2. Please add note with "See 2012 Supplement to the 2004 Edition of "Standard Highway Signs", the 2009 MUTCD and MassDOT Standard Signs Book Latest Revisions for text dimensions, as amended;" More information below:
https://mutcd.fhwa.dot.gov/shse/shs_2004_2012_sup.pdf

Please add note with:
ALL SIGNS NOTED AS "(R&R)" SHALL BE MOUNTED ON NEW P5 POSTS OR AS OTHERWISE INDICATED.

TRAFFIC SIGN SUMMARY

2 or 3? please update the post number based on the sign & pavement marking plans.

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	BACK-GROUND	COLOR	BORDER	POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.							
R1-1(BIKE)	18"	18"	STOP	SEE 2009 MUTCD			2	RED	WHITE	RED	P5-1 3-REQ'D	2.25	4.50
R1-1	30"	30"	STOP				10	RED	WHITE	RED	P5-1 1-REQ'D	6.25	62.5
R2-1	30"	36"	SPEED LIMIT 35				3	WHITE	BLACK	BLACK	P5-1 1-REQ'D	7.50	22.5
R5-3	24"	24"	NO MOTOR VEHICLES				1	WHITE	BLACK	WHITE	P5-1 4-REQ'D	4.00	4.00
R7-1	12"	18"	NO PARKING ANY TIME				1	BLACK	RED	RED	P5-1 1-REQ'D	1.5	1.5
W16-7P(L)	24"	12"	Left Arrow				6	YELLOW	BLACK	BLACK	2 MOUNT W/W11-2	2.00	12.0
W16-7P(R)	24"	12"	Right Arrow				7	YELLOW	BLACK	BLACK	2 MOUNT W/W11-2	2.00	14.0
W11-1	30"	30"	Bicycle				5	YELLOW	BLACK	BLACK	P-5 2 REQ'D	6.25	31.25
W11-2	30"	30"	Pedestrian				3	YELLOW	BLACK	BLACK	P-5 2 REQ'D	6.25	18.75
S3-1	30"	30"	SCHOOL BUS STOP AHEAD				1	YELLOW	BLACK	BLACK	P-5 1 REQ'D	6.25	6.25
W16-9P	24"	12"	AHEAD				1	FLUOR. YELLOW	BLACK	BLACK	MOUNT W/W1-15 (4)	2.00	2
S1-1	30"	30"	Walking				1	YELLOW	BLACK	BLACK	P-5 2 REQ'D	4.67	4.67
S4-3P	24"	12"	SCHOOL				1	FLUOR. YELLOW	BLACK	BLACK	MOUNT W/W1-15 (4)	2.00	2
W3-1	30"	30"	Up Arrow				1	YELLOW	BLACK	BLACK	P-5 2 REQ'D	6.25	6.25
TOTAL:											192.17 SF		

Based on MUTCD 2009 Edition Chapter 2B. Regulatory Signs, Barricades, and Gates. Table 2B-1. Regulatory Sign and Plaque Sizes. The size of the R2-1 on single lane shall be 24" X 30" on multi-lane shall be 30" X 36".



Please update the color detail based on the FHWA standard.

How about other 4? Mounted on P5?

Please update the number based on the pavement marking plans.

The W11-1 and W11-2 signs and their related supplemental plaques may have a fluorescent yellow-green background with a black legend and border.

School warning signs, and including any supplemental plaques used in association with these warning signs, shall have a fluorescent yellow-green background with a black legend and border unless otherwise provided in this Manual for a specific sign.

Couldn't find W1-15 in sign & pavement marking plans. Please make sure the information is correct.

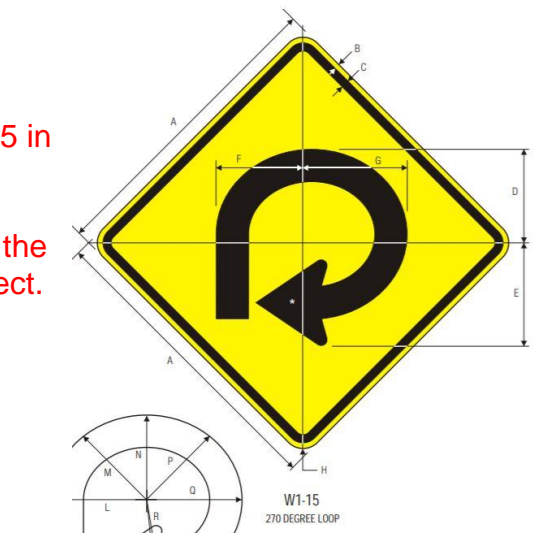
Table 7B-1. School Area Sign and Plaque Sizes

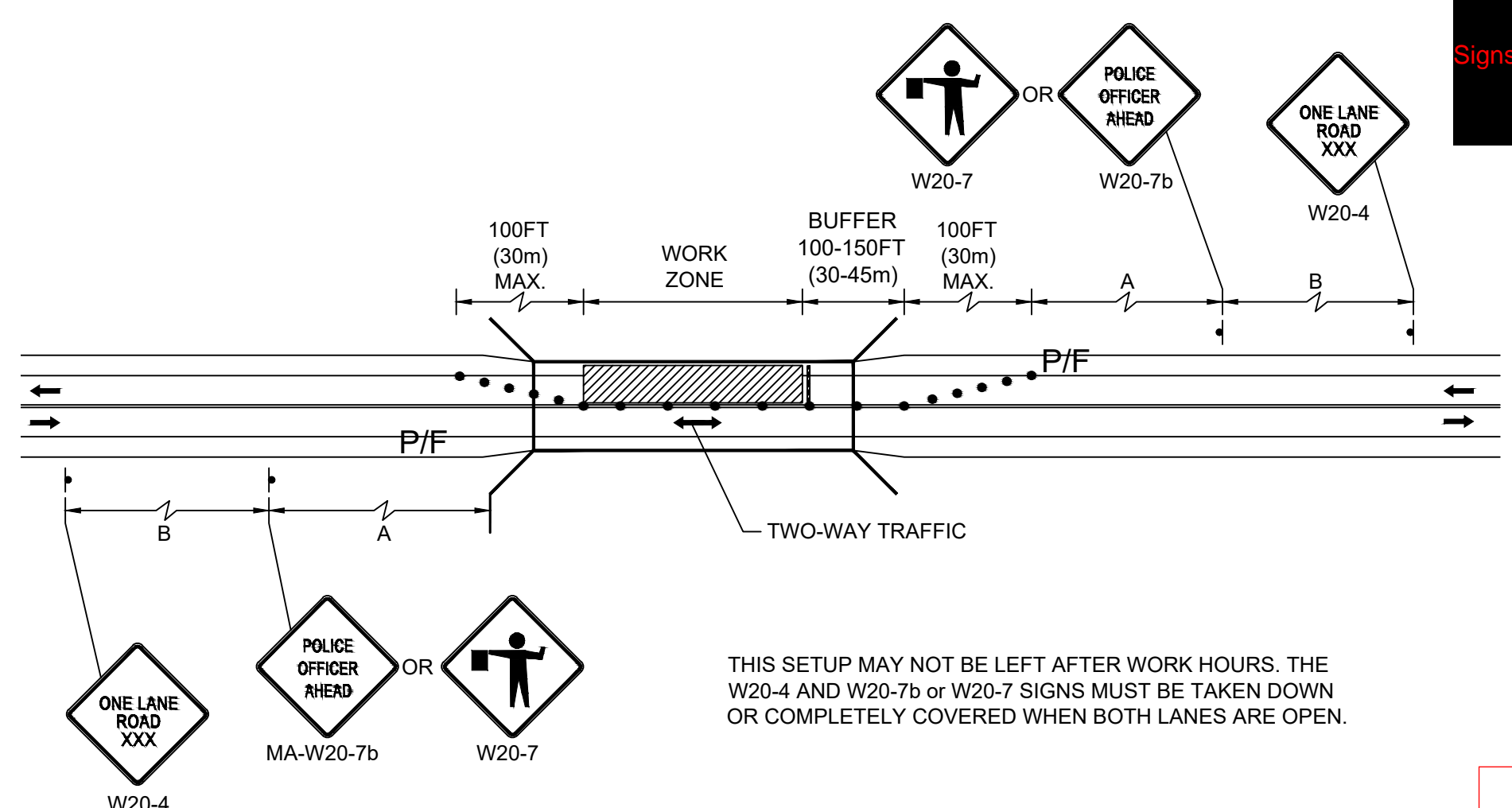
Sign	Sign Designation	Section	Conventional Road	Minimum	Oversized
School	S1-1	7B.09	36 x 36	30 x 30	48 x 48
School Bus Stop Ahead	S3-1	7B.13	36 x 36	30 x 30	48 x 48

Based on MUTCD 2009 Edition Chapter 7B. Signs, Table 7B-1. School Area Sign and Plaque Sizes. The size of S3-1 on Conventional Road shall be 36" X 36".

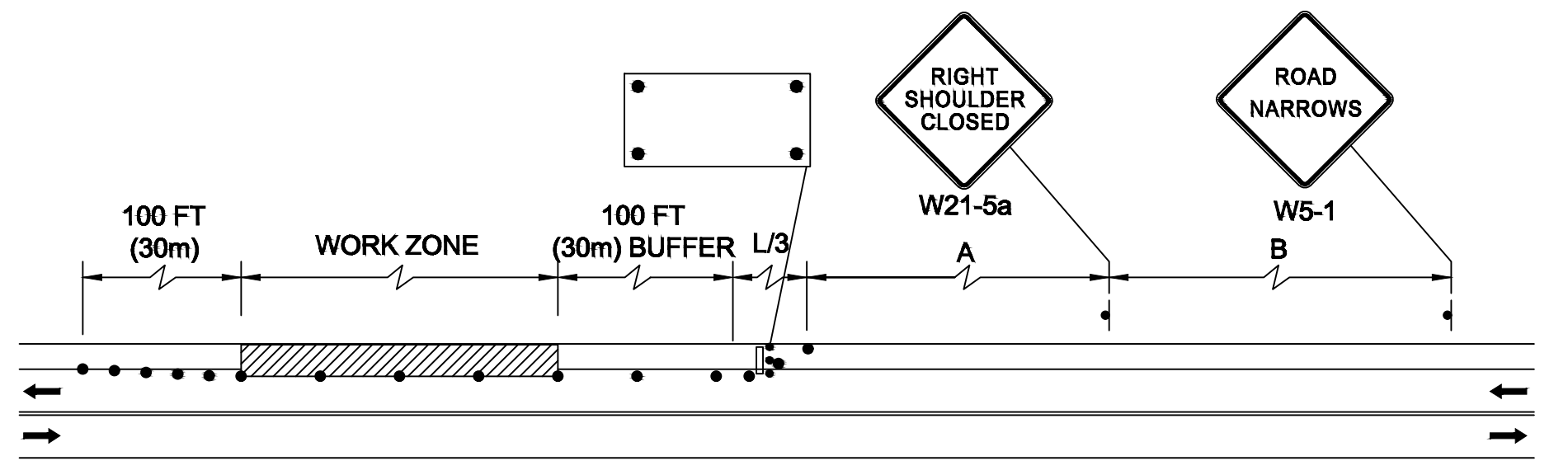
Based on MUTCD 2009 Edition Chapter 7B. Signs, Table 7B-1. The size of S1-1 on Conventional Road shall be 36" X 36". The sizes in the Minimum column shall be used only where traffic volumes are low and speeds are 30 mph or lower, as determined by engineering judgment.

The size of S4-3P on Conventional Road shall be 24" X 8".

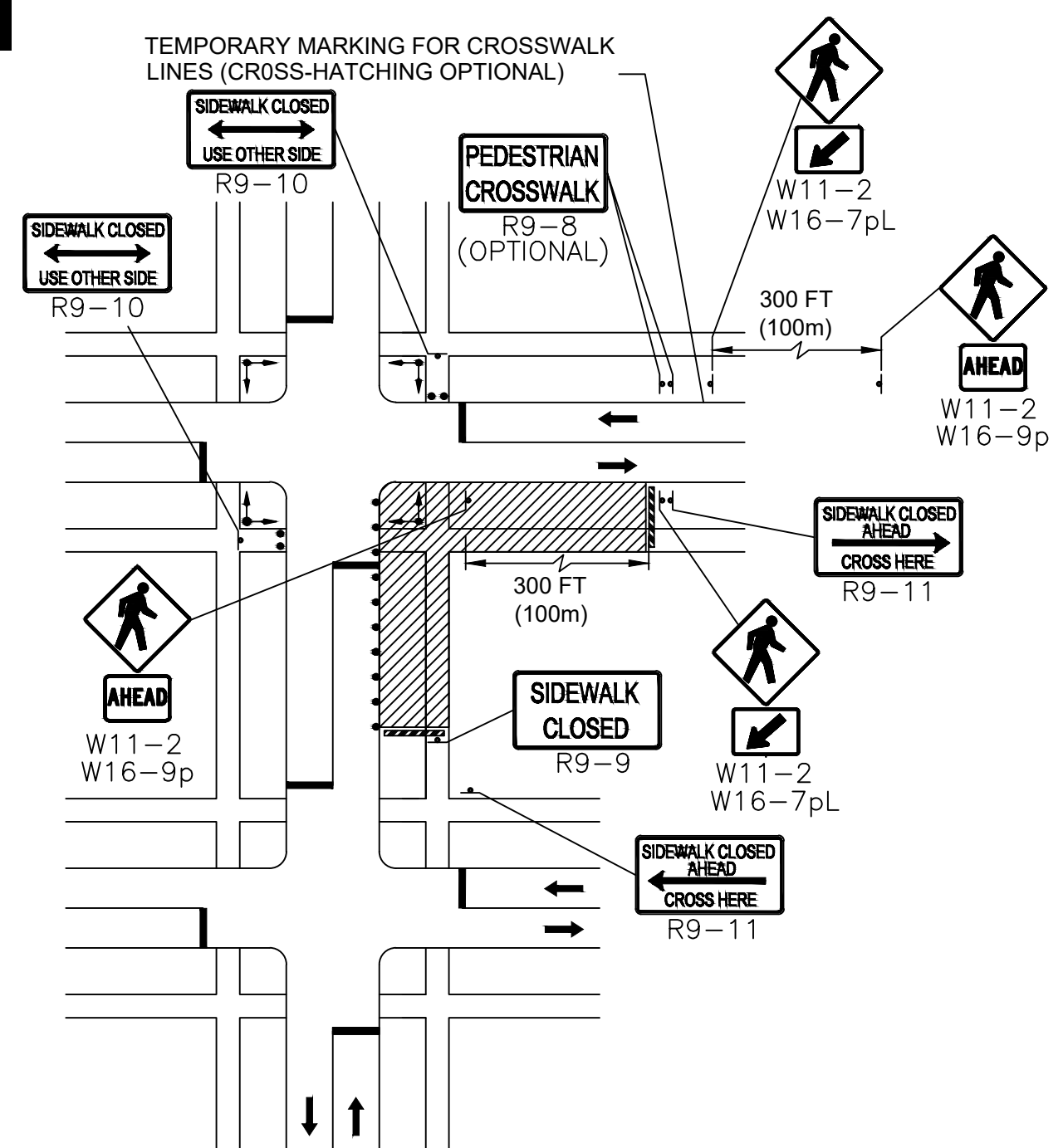




TWO LANE ROAD WITH ONE LANE CLOSED
ALTERNATING TRAFFIC
NOT TO SCALE



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:

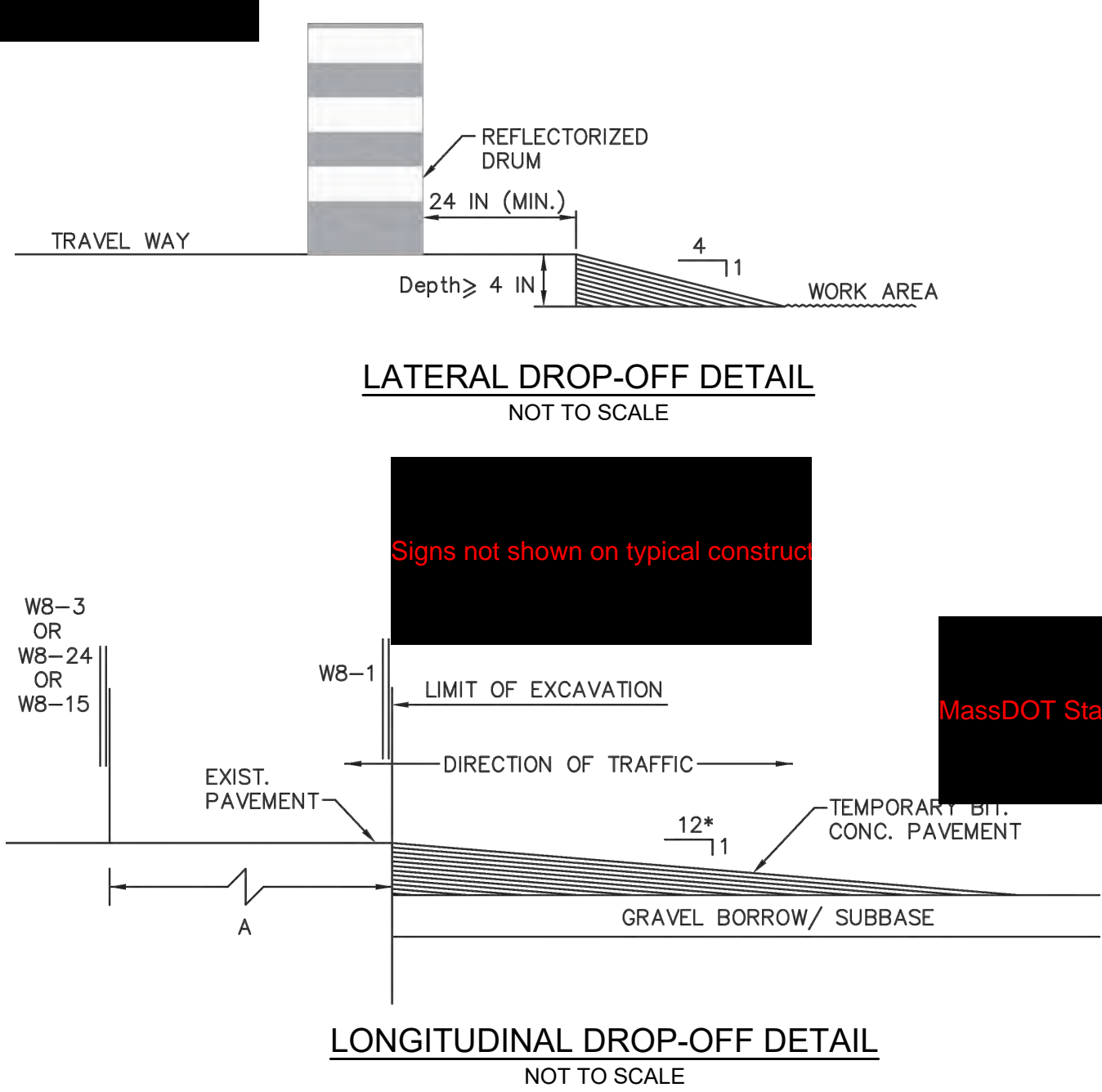
- ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
- ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
- TEMPORARY CONSTRUCTION SIGNING AND 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 ADJUTTER 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 100 FEET (30 METERS).
- 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

SIGN ID	SIZE OF SIGN		TEXT	TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	COLOR			DISTANCE (FT)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK-GROUND	LEGEND	BORDER	
MA-R2-10e	48"	36"	WORK ZONE SPEEDING FINES DOUBLED	SEE MASSDOT STANDARDS			TBD	SEE MASSDOT STANDARDS			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"	ROAD NARROWS					ORANGE	BLACK	BLACK	18.00
W4-2R	36"	36"	ROAD NARROWS					ORANGE	BLACK	BLACK	18.00
W5-1	36"	36"	ROAD NARROWS					ORANGE	BLACK	BLACK	18.00



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

Signs not shown on t

D5 TRAFFIC Please use Figure 7 "Stationary Oper

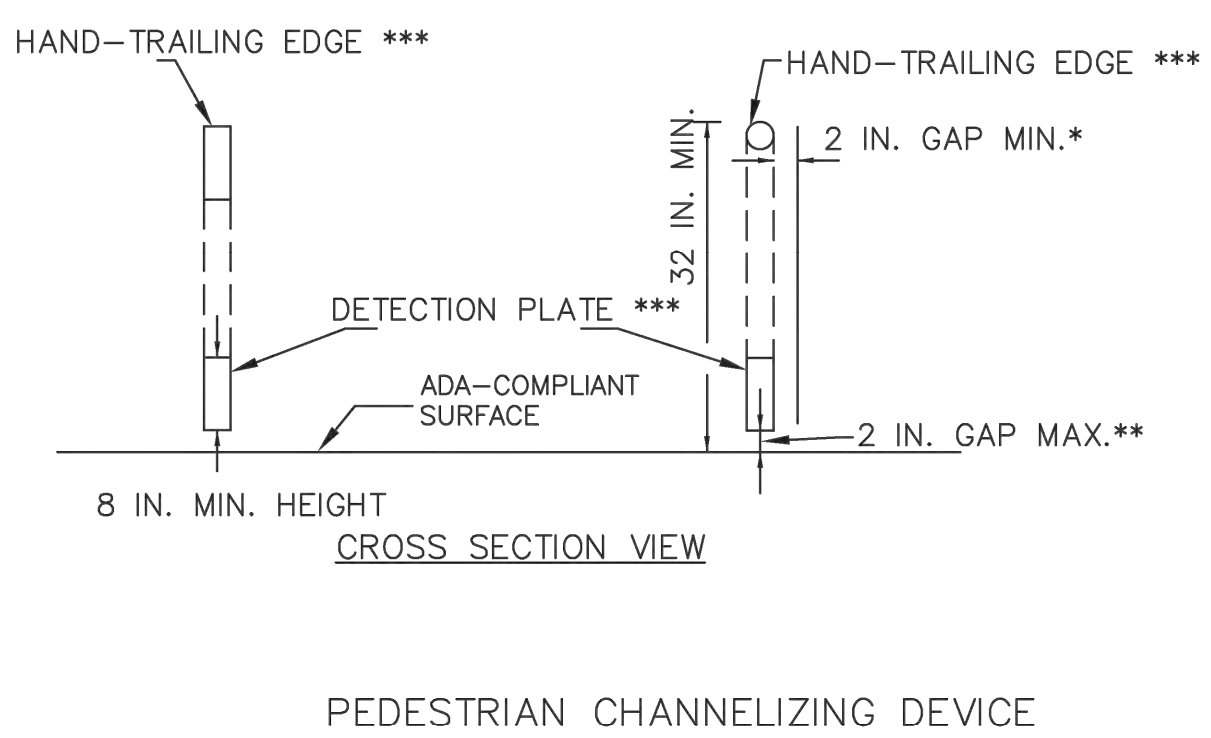
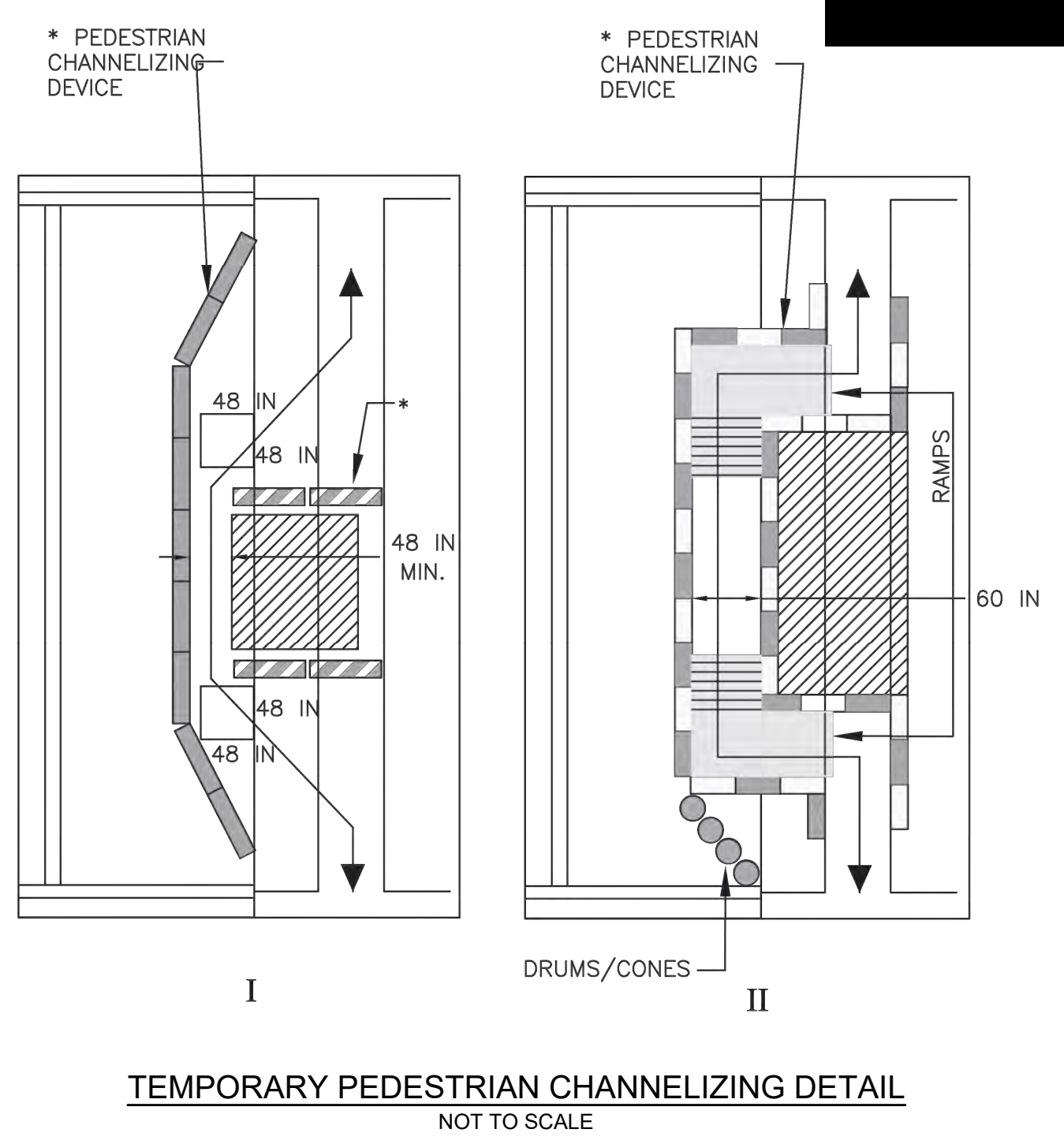
D5 TRAFFIC Please use Figure 8 "Stationary Oper

Please provide the color detail based on the newest MassDOT

Please revise the size based on the MassDOT

Please provide typical deta

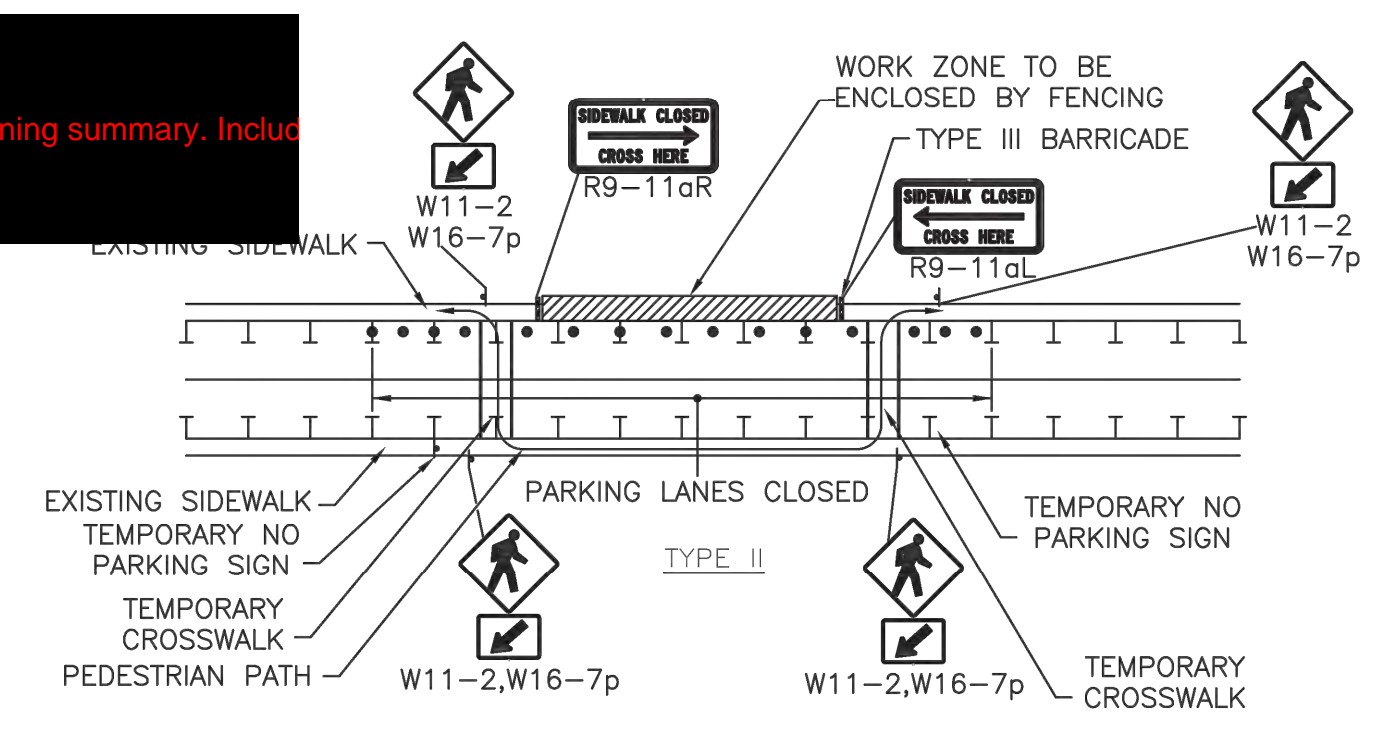
FLRSCNT.ORANGE



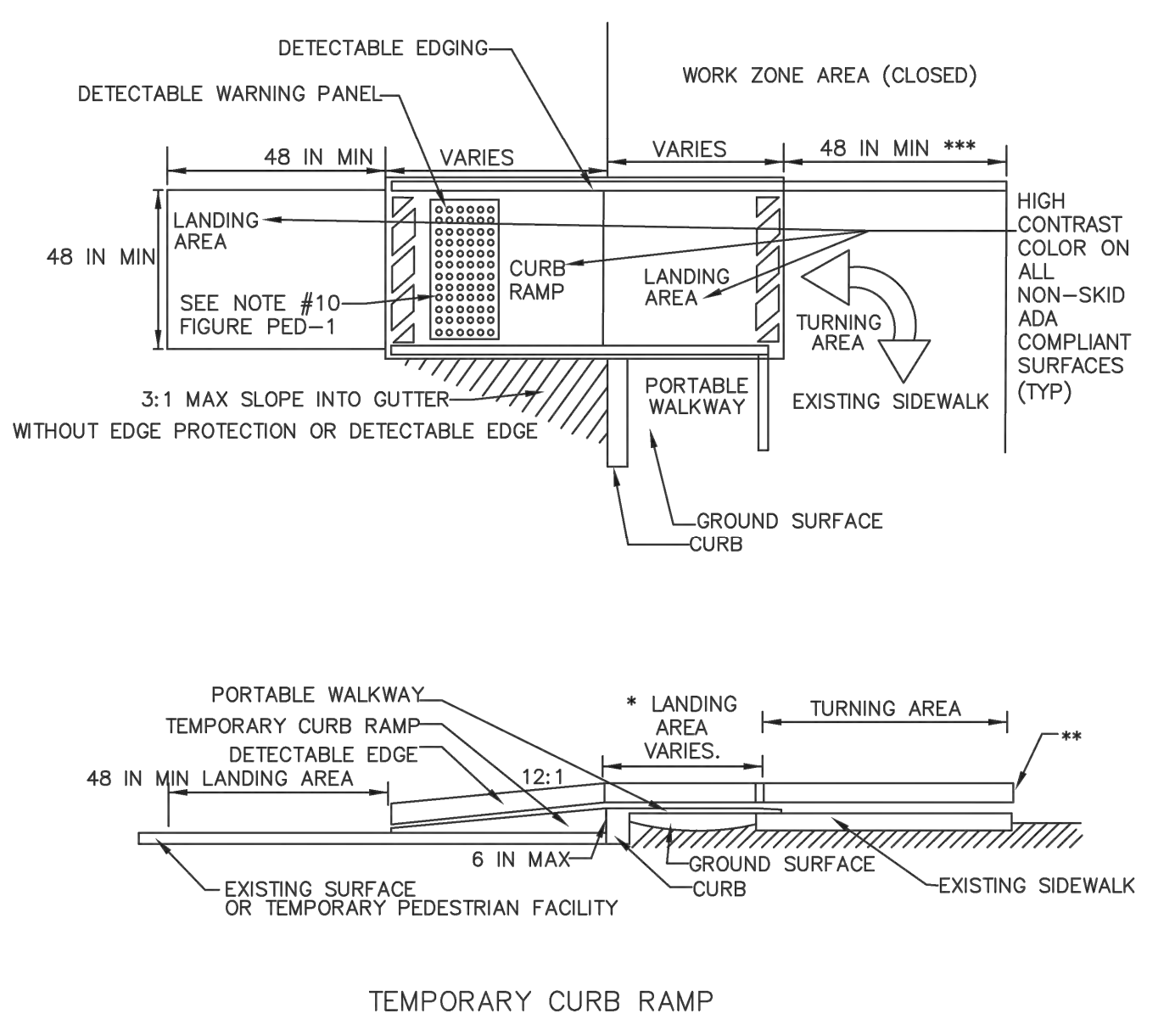
NOTES:

- * THERE SHALL BE A 2 INCH GAP BETWEEN THE HAND-TRAILING EDGE AND ITS SUPPORT.
- ** A MAXIMUM 2 INCH GAP BETWEEN THE BOTTOM OF THE BOTTOM RAIL AND THE SURFACE MAY BE USED TO PROVIDE DRAINAGE.
- *** THE HAND-TRAILING EDGE AND DETECTION PLATE SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE PATH SUCH THAT A PEDESTRIAN USER WITH A LONG CANE CAN FOLLOW IT.

TEMPORARY PEDESTRIAN CHANNELIZING DETAIL
NOT TO SCALE



D5 TRAFFICIS this feasible? Other side of the street



* -LANDING AREA USED TO OVERLAP NON-ADA COMPLIANT SURFACES.

** -DETECTABLE EDGE REMOVED IF A CONTINUOUS SIDEWALK.

*** -60 IN. IF AN OBSTRUCTION IS AT BACK OF SIDEWALK

NOTES:

- Detail I is considered an example of a short term closure and pedestrian assistance (personnel) to navigate around the closure/work area could be considered as an option in place of providing ADA/AAB devices. Detail II is considered an example of a long term closure that would require additional ADA/AAB compliant devices. If a sidewalk closure or restriction lasts for more than one (1) work shift then ADA/AAB compliance shall be followed.
- When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, temporary facilities shall be provided and they shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.
- A pedestrian channelizing device that is detectable by a person with a visual disability traveling with the aid of a long cane shall be placed across the full width of the closed sidewalk.
- When used, temporary ramps shall comply with Americans with Disabilities Act (see Figures Ped-1 & Ped-2).
- The alternate pathway should have a smooth continuous hard surface for the entire length of the temporary pedestrian facility.
- The temporary sidewalk should be a minimum of 4 feet wide. If the sidewalk exceeds 200 feet then a 5 foot by 5 foot passing zone shall be provided.
- The protective requirements of a TTC work zone may have an impact in determining the need for temporary traffic barriers and their use in providing pedestrian delineation should be based on engineering judgment.
- Controls only for pedestrian traffic are shown; vehicular traffic should be handled as shown elsewhere. These details are used in conjunction with the proposed lane closure details and during construction staging, as determined by the Engineer.
- Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.
- Existing audible devices no longer applicable due to construction shall be disabled.

AUDIBLE DEVICES

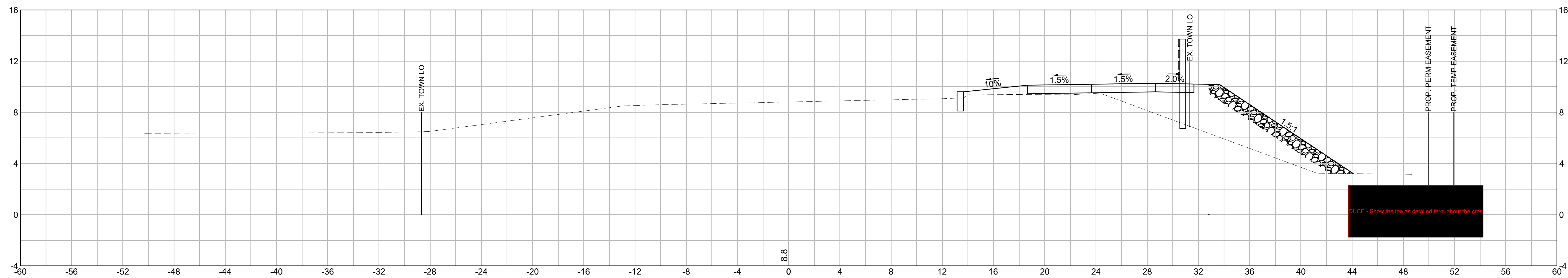
For long term sidewalk closures (at a minimum overnight) a form of speech messaging for pedestrians with visual disabilities shall be provided. Audible information devices such as detectable barriers or barricades and other passive pedestrian activation (motion activated) devices should be considered for these cases. These audible devices can be mountable or stand alone.

TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

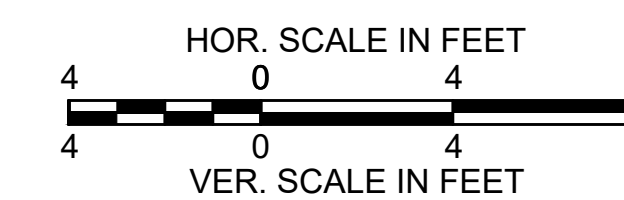
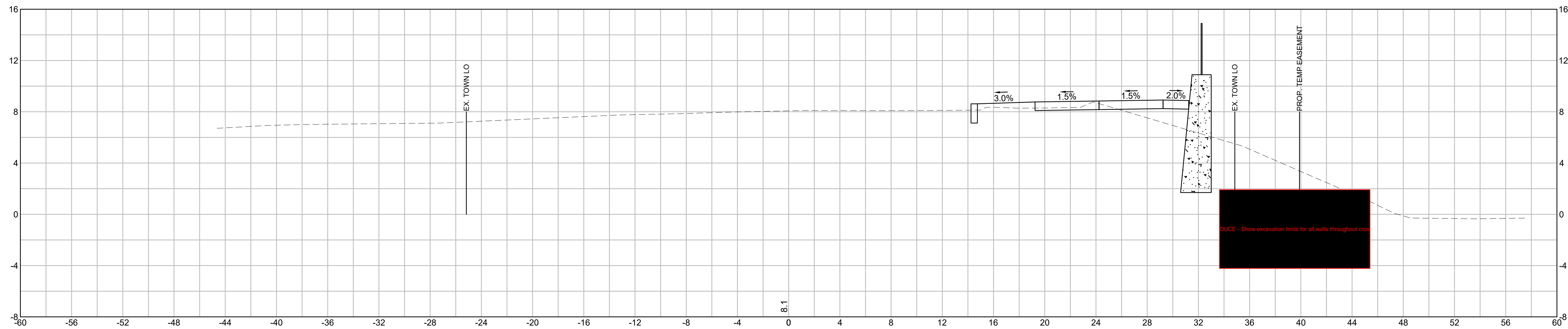
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	88	93
PROJECT FILE NO.		607825	

CRITICAL CROSS SECTIONS

4+63



2+80

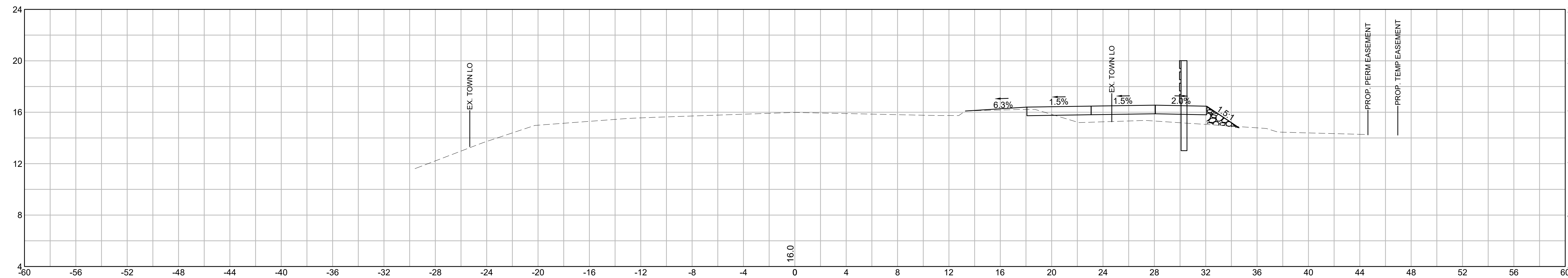


TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	89	93
PROJECT FILE NO.		607825	

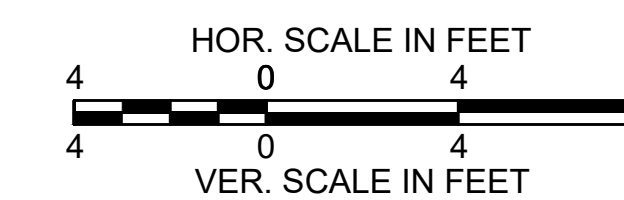
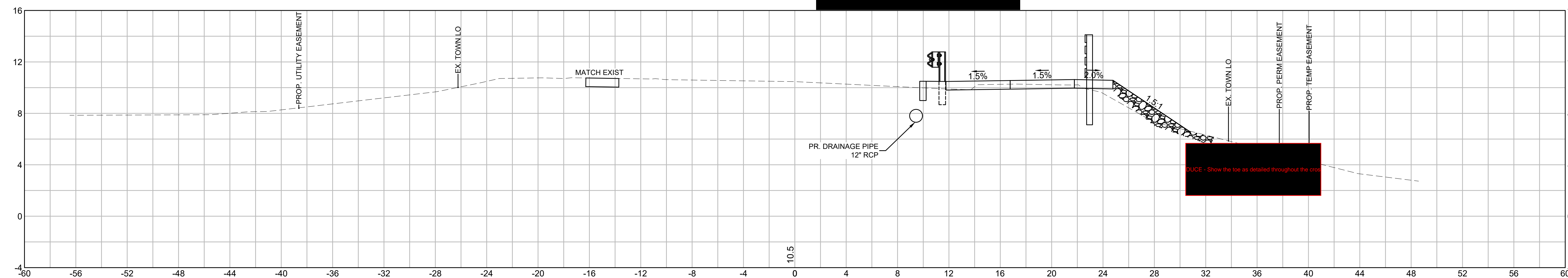
CRITICAL CROSS SECTIONS

31+45



16+50

Projects - The Plans propose to mill & overlay the road

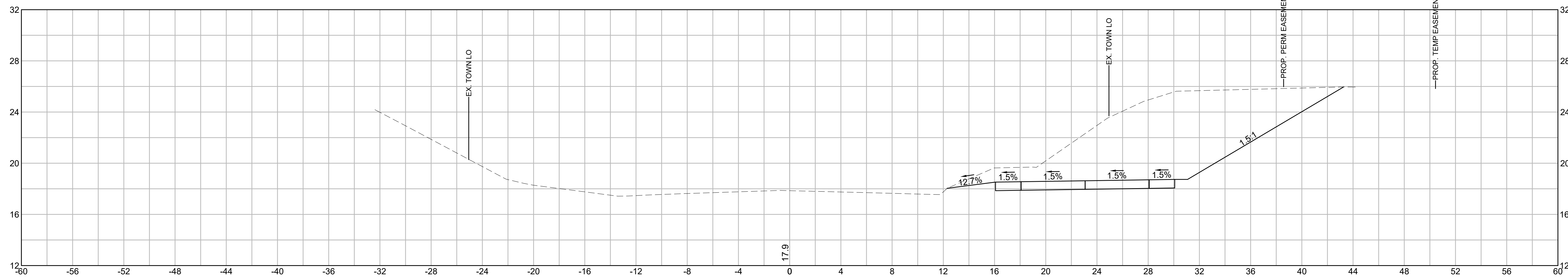


TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

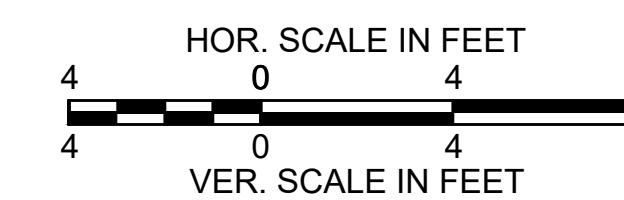
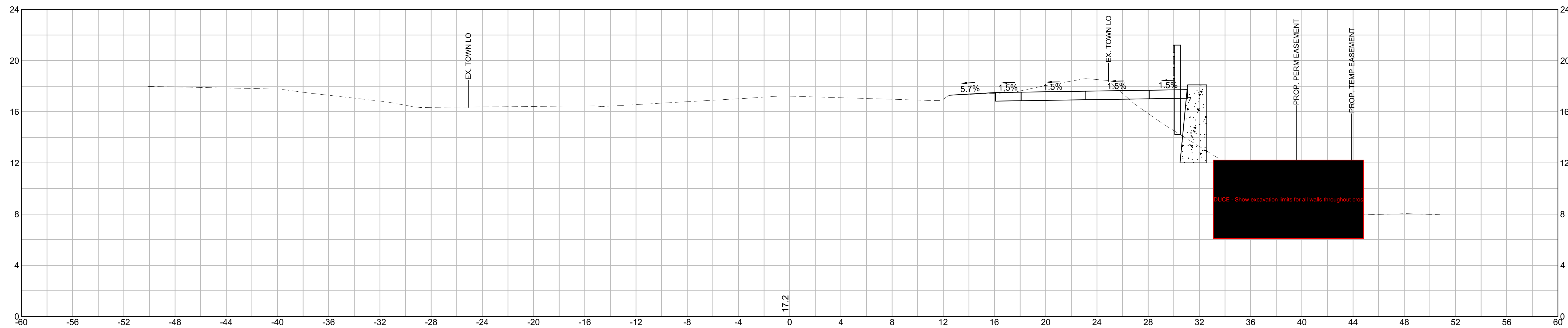
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	90	93
PROJECT FILE NO.		607825	

CRITICAL CROSS SECTIONS

44+15



42+23

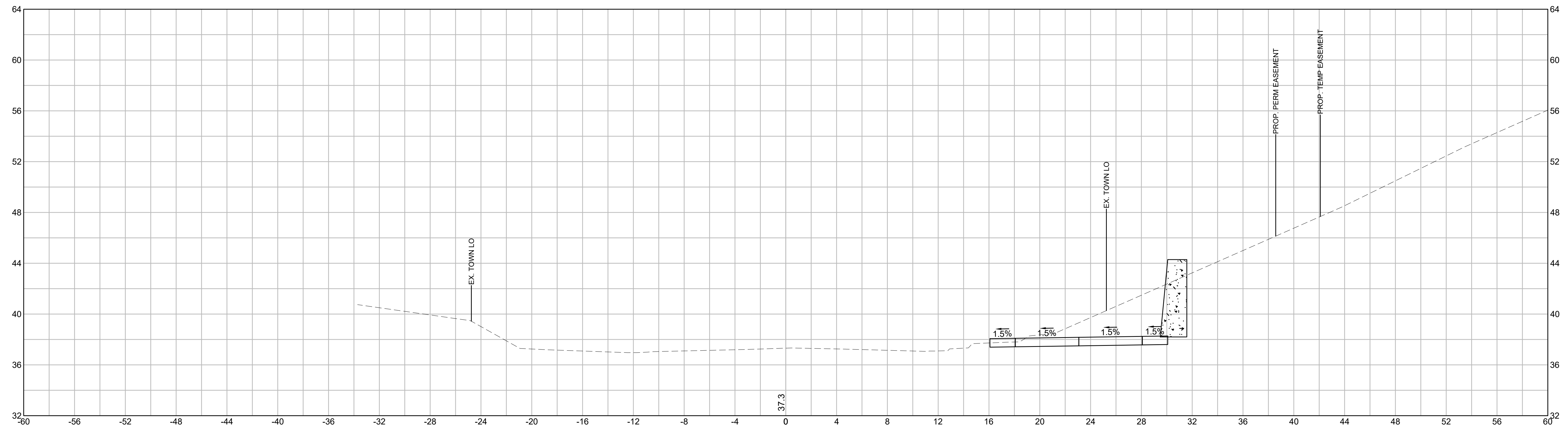


TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

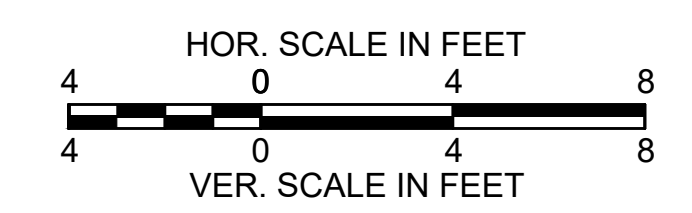
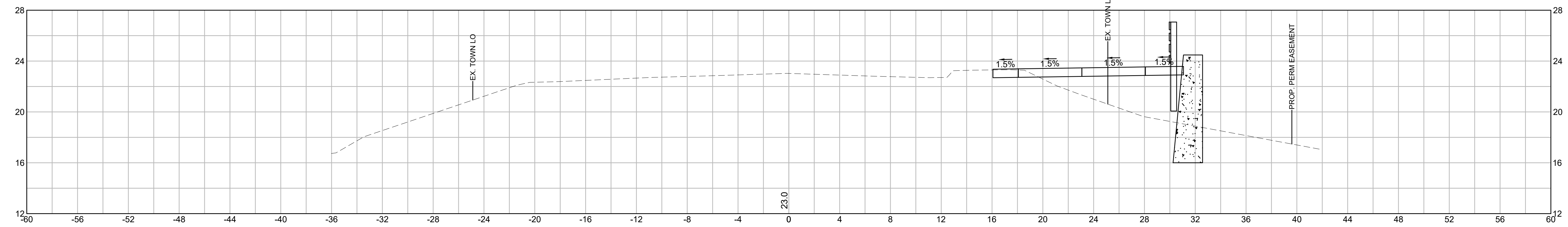
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	91	93
PROJECT FILE NO.		607825	

CRITICAL CROSS SECTIONS

59+58



53+27

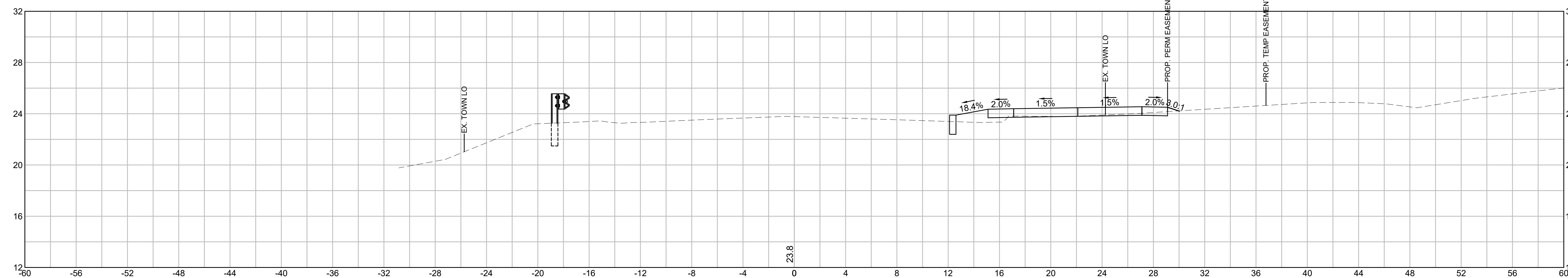


TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

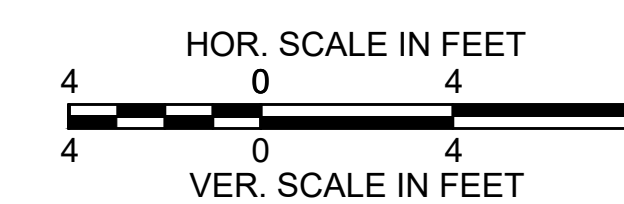
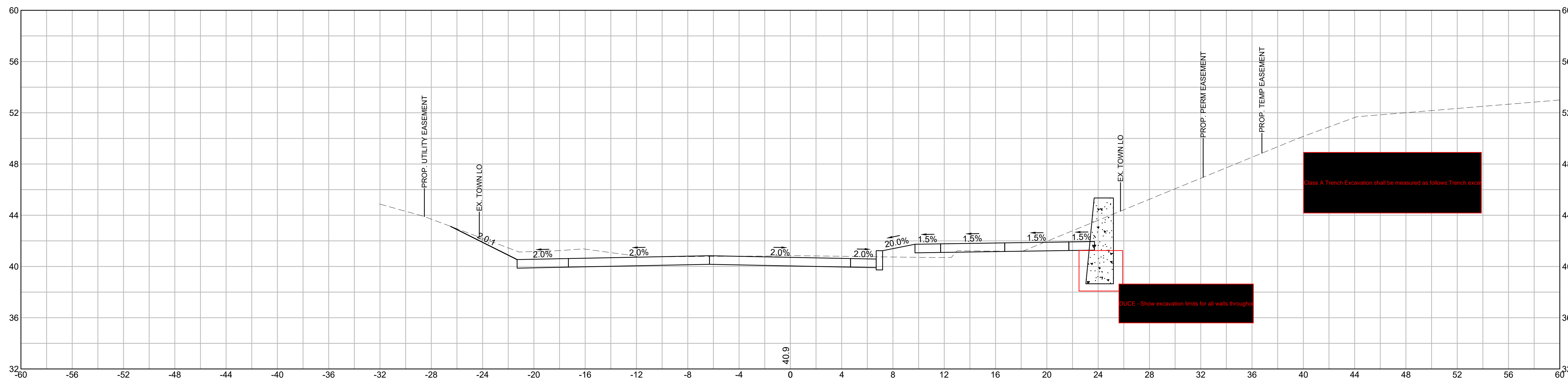
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	92	93
PROJECT FILE NO.		607825	

CRITICAL CROSS SECTIONS

79+50



68+90



TOWN OF WAREHAM
SHARED-USE PATH PHASE 3A

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	93	93
PROJECT FILE NO. 607825			

CRITICAL CROSS SECTIONS

