

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

PLAN AND PROFILE OF BEACH ROAD

IN THE TOWN OF TISBURY DUKES COUNTY

FEDERAL AID PROJECT NO. CMQ-0035(041)X

TISBURY
BEACH ROAD

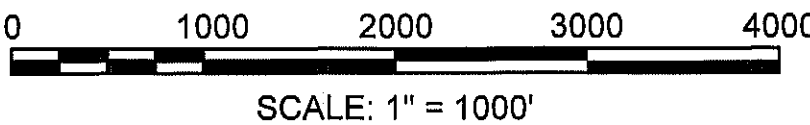
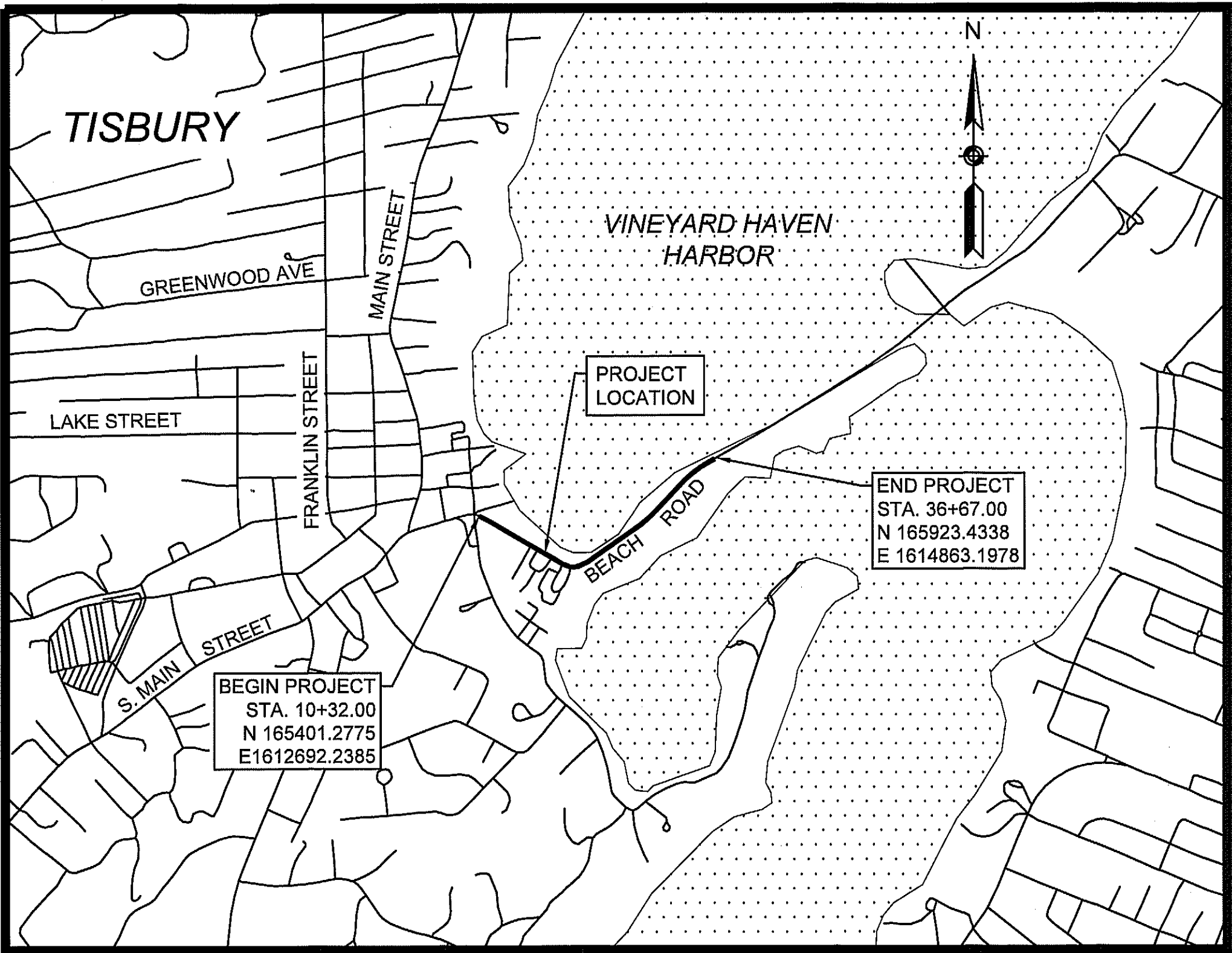
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	1	75
PROJECT FILE NO.		607411	

TITLE SHEET & INDEX

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED APRIL 1, 2019, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1988 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

INDEX

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LENGTH OF PROJECT = 2,632 FEET = 0.499 MILES

DESIGN DESIGNATION (BEACH ROAD)

DESIGN SPEED	30 MPH
ADT (2015)	13,500
ADT (2022)	14,500
K	7.0%
D	55%
T (PEAK HOUR)	3.5%
T (AVERAGE DAY)	3.5%
DHV	1,015
DDHV	560
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL

GPI Greenman-Pedersen, Inc.
Engineers, Architects, Planners, Construction Engineers & Inspectors
181 Ballardvale Street, Suite 202, Wilmington, MA 01887
Tel: (978) 570-2999 Fax: (978) 658-3044
<http://www.gpinet.com>

DATE	DESCRIPTION	REV #

	RECOMMENDED FOR APPROVAL CHIEF-ENGINEER <i>PE</i> 7-31-19 DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION APPROVED: DIVISION ADMINISTRATOR DATE	APPROVED HIGHWAY ADMINISTRATOR 7-31-2019 DATE

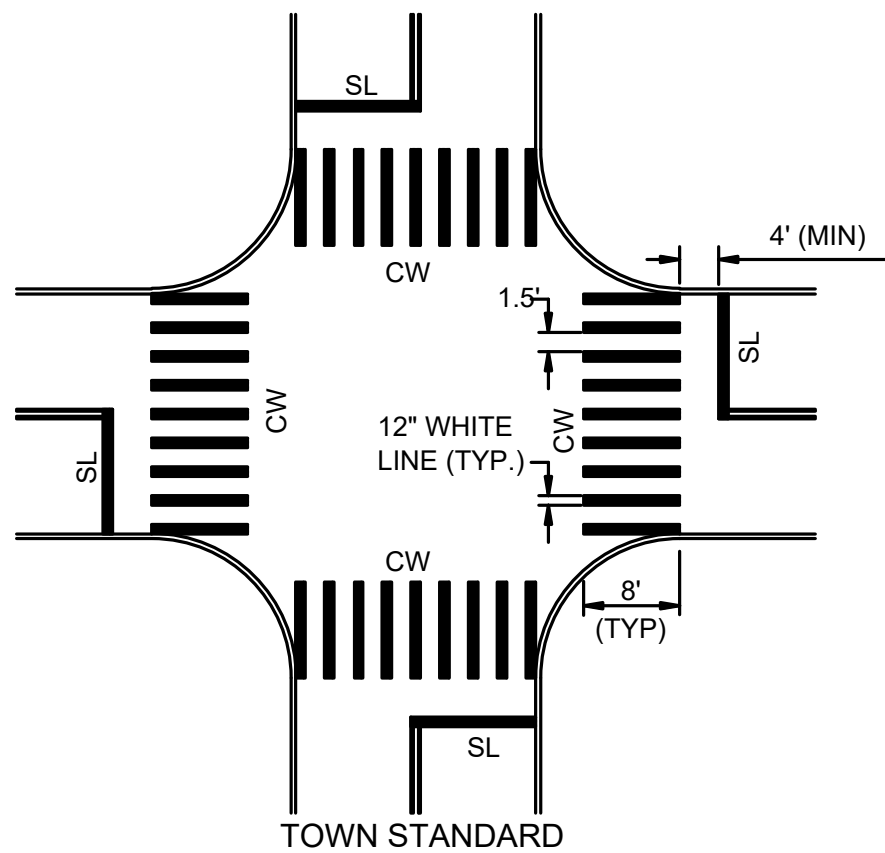
GENERAL SYMBOLS

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
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE OR COMPOST FILTER TUBES
		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

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE (12" WHITE)
		CROSSWALK (12")
		SOLID WHITE LINE (6")
		SOLID YELLOW LINE (6")
		BROKEN WHITE LINE (6")
		BROKEN YELLOW LINE (6")
		DOTTED WHITE LINE (6")
		DOTTED YELLOW LINE (6")
		DOTTED WHITE LINE EXTENSION (6")
		DOTTED YELLOW LINE EXTENSION (6")
		DOUBLE WHITE LINE (6")
		DOUBLE YELLOW LINE (6")

BROKEN LINES TO BE 10' IN LENGTH WITH 30' GAP (TYP.)
DOTTED LINES TO BE 2' IN LENGTH WITH 6' GAP (TYP.)



TYPICAL CROSSWALK MARKINGS

NOT TO SCALE

GENERAL NOTES

- TOPOGRAPHICAL INFORMATION WAS PROVIDED BY GREENMAN-PEDERSEN, INC. (978) 570-2977, OCTOBER 2013. VERTICAL DATUM IS BASED ON NAVD88. HORIZONTAL DATUM IS BASED ON NAD83 MASSACHUSETTS STATE PLANE, ISLAND ZONE.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION.
- WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS, OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE & RESET" (R&R).
- ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
- ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- ALL EXISTING STATE, COUNTY, CITY AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
- ALL JOINTS BETWEEN NEW SURFACE PAVEMENT AND EXISTING SURFACE PAVEMENT TO REMAIN SHALL BE COATED WITH A HOT MIX ASPHALT JOINT SEALANT MEETING SPECIAL PROVISION ITEM 453.
- ALL DISTURBED AREAS NOT DESIGNATED TO BE PAVED SHALL HAVE LOAM BORROW PLACED AND SEEDED. THE LOAM BORROW SHALL HAVE A MINIMUM DEPTH OF 4 INCHES AND SHALL BE PLACED FLUSH WITH THE TOP OF THE ADJACENT CURB, EDGING, BERM OR PAVEMENT SURFACE.
- PRIOR TO THE START OF ANY NEW UTILITY WORK, ALL ELEVATIONS OF EXISTING UTILITIES IN THOSE AREAS ARE TO BE VERIFIED. THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY SHOULD ANY DISCREPANCIES OCCUR.
- ALL CASTINGS SHALL BE SET FLUSH WITH FINISHED GRADE.
- ALL PUBLICLY OWNED GATE BOXES, SERVICE BOXES, MANHOLE FRAMES AND COVERS SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITIES ON THE FINAL GRADES OF THEIR SURFACE FEATURES.
- ALL NEW SIDEWALKS AND DRIVEWAY GRADES SHALL MATCH EXISTING GRADES AT BACK OF SIDEWALK LINE UNLESS SHOWN OTHERWISE ON THE PLANS AND CROSS-SECTIONS.
- THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT ALL EXISTING TREES AND ROOTS THAT ARE NOT DESIGNATED FOR REMOVAL.
- DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.

GENERAL ABBREVIATIONS

AADT	ANNUAL AVERAGE DAILY TRAFFIC	EXC	EXCAVATION	PVI	POINT OF VERTICAL INTERSECTION
ABAN	ABANDON	F&C	FRAME AND COVER	PVT	POINT OF VERTICAL TANGENCY
ADJ	ADJUST	F&G	FRAME AND GRATE	PVMT	PAVEMENT
APPROX	APPROXIMATE	FDN	FOUNDATION	PWW	PAVED WATER WAY
A.C.	ASPHALT CONCRETE	FLDSTN	FIELDSTONE	R	RADIUS OF CURVATURE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE	GAR	GARAGE	R&D	REMOVE AND DISPOSE
BIT	BITUMINOUS	GD	GROUND	RCP	REINFORCED CONCRETE PIPE
BC	BOTTOM OF CURB	GG	GAS GATE	RD	ROAD
BD	BOUND	GI	GUTTER INLET	RDWY	ROADWAY
BL	BASELINE	GIP	GALVANIZED IRON PIPE	REM	REMOVE
BLDG	BUILDING	GRAN	GRANITE	RET	RETAIN
BM	BENCHMARK	GRAV	GRAVEL	RET WALL	RETAINING WALL
BO	BY OTHERS	GRD	GRASS	ROW	RIGHT OF WAY
BOS	BOTTOM OF SLOPE	HDW	HEADWALL	RR	RAILROAD
BR	BRIDGE	HMA	HOT MIX ASPHALT	R&R	REMOVE AND RESET
CB	CATCH BASIN	HOR	HORIZONTAL	R&S	REMOVE AND STACK
CBCI	CATCH BASIN WITH CURB INLET	HYD	HYDRANT	RT	RIGHT
CC	CEMENT CONCRETE	INV	INVERT	SB	STONE BOUND
CCM	CEMENT CONCRETE MASONRY	JCT	JUNCTION	SHLD	SHOULDER
CEM	CEMENT	L	LENGTH OF CURVE	SMH	SEWER MANHOLE
CI	CURB INLET	LB	LEACH BASIN	ST	STREET
CIP	CAST IRON PIPE	LP	LIGHT POLE	STA	STATION
CIT	CHANGE IN TYPE	LT	LEFT	SSD	STOPPING SIGHT DISTANCE
CLF	CHAIN LINK FENCE	MAX	MAXIMUM	SHLO	STATE HIGHWAY LAYOUT LINE
CL	CENTERLINE	MB	MAILBOX	SW	SIDEWALK
CMP	CORRUGATED METAL PIPE	MH	MANHOLE	T	TANGENT DISTANCE OF CURVE/TRUCK %
CSP	CORRUGATED STEEL PIPE	MHB	MASSACHUSETTS HIGHWAY BOUND	TAN	TANGENT
CO	COUNTY	MIN	MINIMUM	TEMP	TEMPORARY
CONC	CONCRETE	NIC	NOT IN CONTRACT	TC	TOP OF CURB
CONT	CONTINUOUS	NO	NUMBER	TOS	TOP OF SLOPE
CONST	CONSTRUCTION	PC	POINT OF CURVATURE	TYP	TYPICAL
CR GR	CROWN GRADE	PCC	POINT OF COMPOUND CURVATURE	UGW	UNDERGROUND WIRE
DHV	DESIGN HOURLY VOLUME	P.G.L.	PROFILE GRADE LINE	UP	UTILITY POLE
DI	DROP INLET	PI	POINT OF INTERSECTION	VAR	VARIES
DIA	DIAMETER	POC	POINT ON CURVE	VERT	VERTICAL
DIP	DUCTILE IRON PIPE	POT	POINT ON TANGENT	VC	VERTICAL CURVE
DW	STEADY DON'T WALK - PORTLAND ORANGE	PRC	POINT OF REVERSE CURVATURE	WCR	WHEEL CHAIR RAMP
DWY	DRIVEWAY	PROJ	PROJECT	WG	WATER GATE
ELEV (or EL.)	ELEVATION	PROP	PROPOSED	WIP	WROUGHT IRON PIPE
EMB	EMBANKMENT	PSB	PLANTABLE SOIL BORROW	WM	WATER METER/WATER MAIN
EOP	EDGE OF PAVEMENT	PT	POINT OF TANGENCY	X-SECT	CROSS SECTION
EXIST (or EX)	EXISTING	PVC	POINT OF VERTICAL CURVATURE		

TISBURY
BEACH ROAD

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MA	CMQ-0035(041)X	2	75
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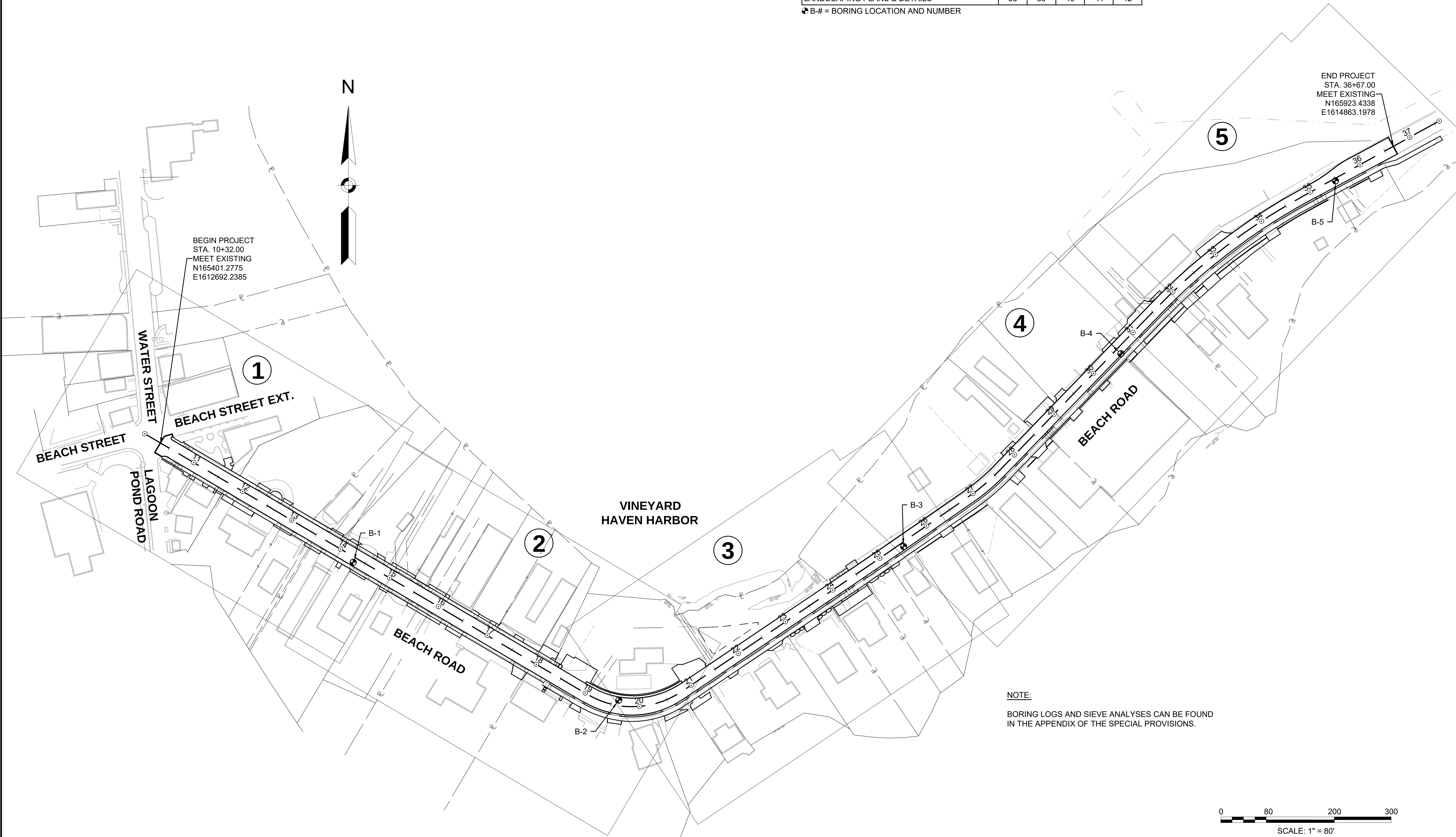
LEGEND & ABBREVIATIONS

SHEET REFERENCE:	1	2	3	4	5
Drawing Title:	Drawing Number:				
CONSTRUCTION PLANS & PROFILES	6	7	8	9	10
CURB TIE & GRADING PLANS	11	12	13	14	15
DRAINAGE & UTILITY PLANS	16	17	18	19	20
TRAFFIC SIGN & PAVEMENT MARKING PLANS	21	22	23	24	25
LIGHTING PLANS	30	31	32	33	34
LANDSCAPING PLANS & DETAILS	38	39	40	41	42

◆ B-# = BORING LOCATION AND NUMBER

TISBURY BEACH ROAD			
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MA	CMQ-0035(041)X	3	75
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KEY PLAN & BORING LOCATIONS



TISBURY
BEACH ROAD

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MA	CMQ-0035(041)X	4	75
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TYPICAL SECTIONS

PAVEMENT NOTES

FULL DEPTH HMA CONSTRUCTION

SURFACE COURSE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5) OVER
2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC - 12.5) OVER

BASE: 4" SUPERPAVE BASE COURSE - 37.5 (SBC - 37.5) OVER

SUBBASE: 4" DENSE GRADED CRUSHED STONE OVER
8" GRAVEL BORROW TYPE B (OR SUITABLE EXISTING MATERIAL)

HMA DRIVEWAYS AND SHARED USE PATH

SURFACE COURSE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5) OVER
2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC - 12.5) OVER

SUBBASE: 8" GRAVEL BORROW TYPE B (OR SUITABLE EXISTING MATERIAL)

CEMENT CONCRETE SIDEWALK AT DRIVEWAYS & CEMENT CONCRETE DRIVEWAYS

SURFACE COURSE: 6" CEMENT CONCRETE (AIR ENTRAINED 4000 PSI, 3/4", 610) OVER

SUBBASE: 8" GRAVEL BORROW TYPE B (OR SUITABLE EXISTING MATERIAL)

CEMENT CONCRETE SIDEWALK & WHEELCHAIR RAMPS

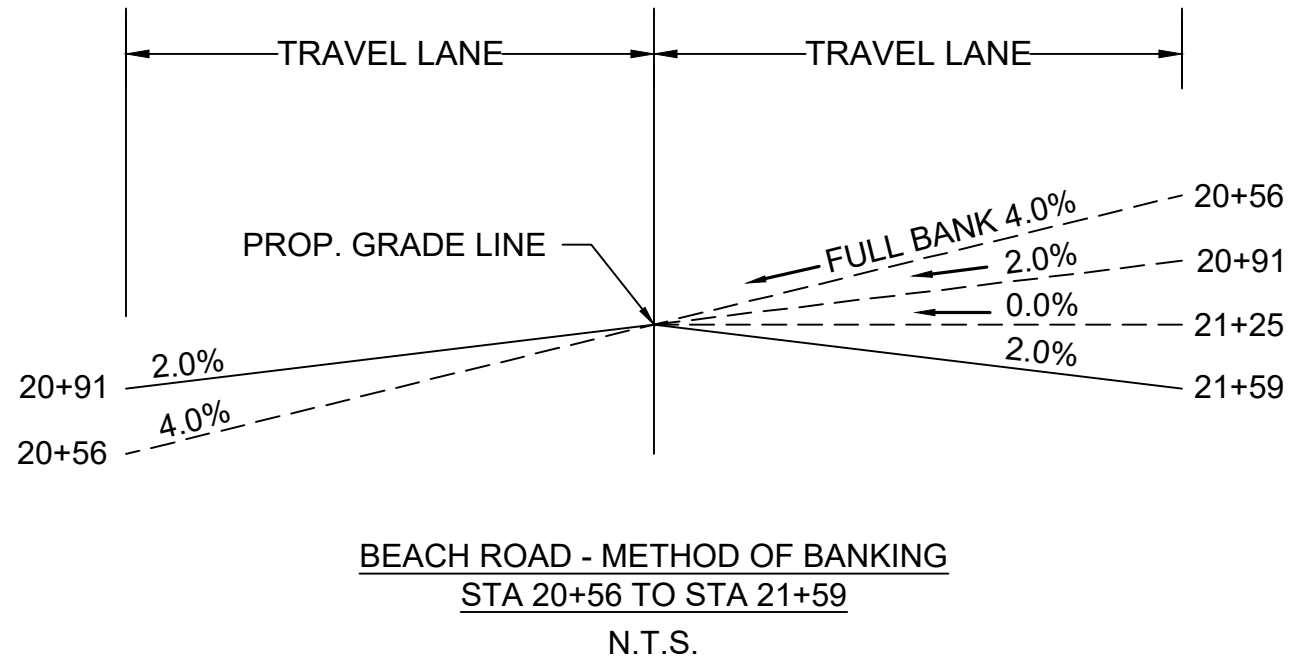
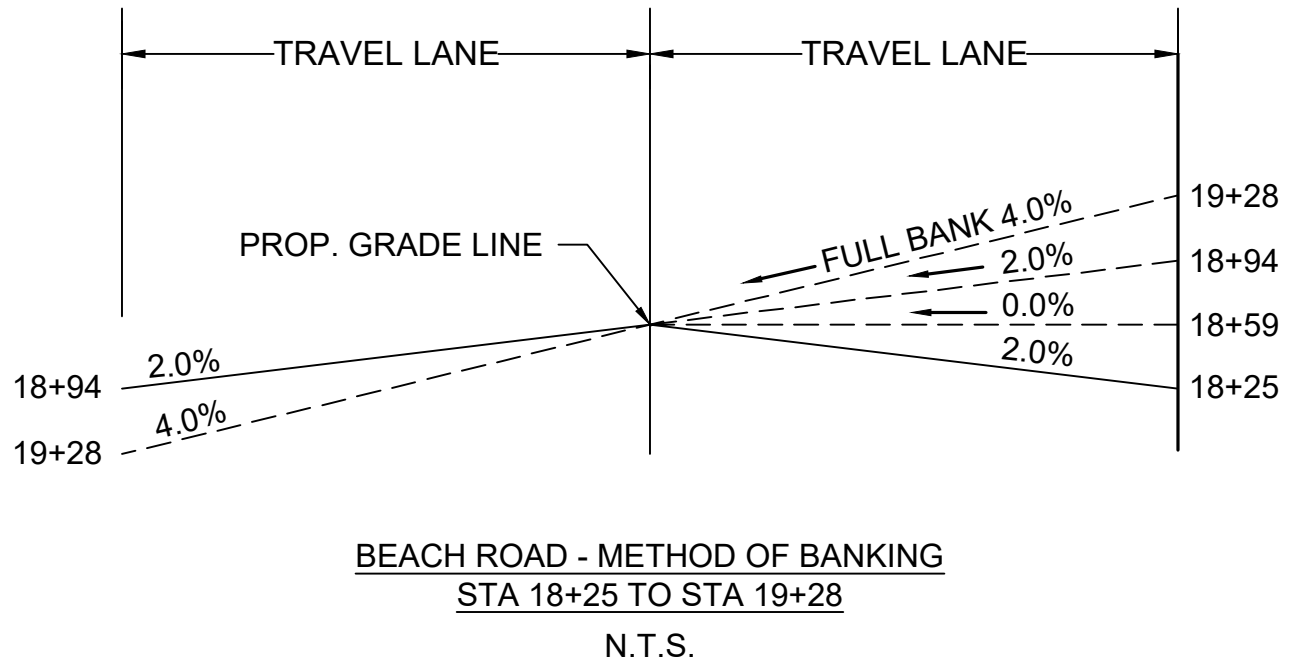
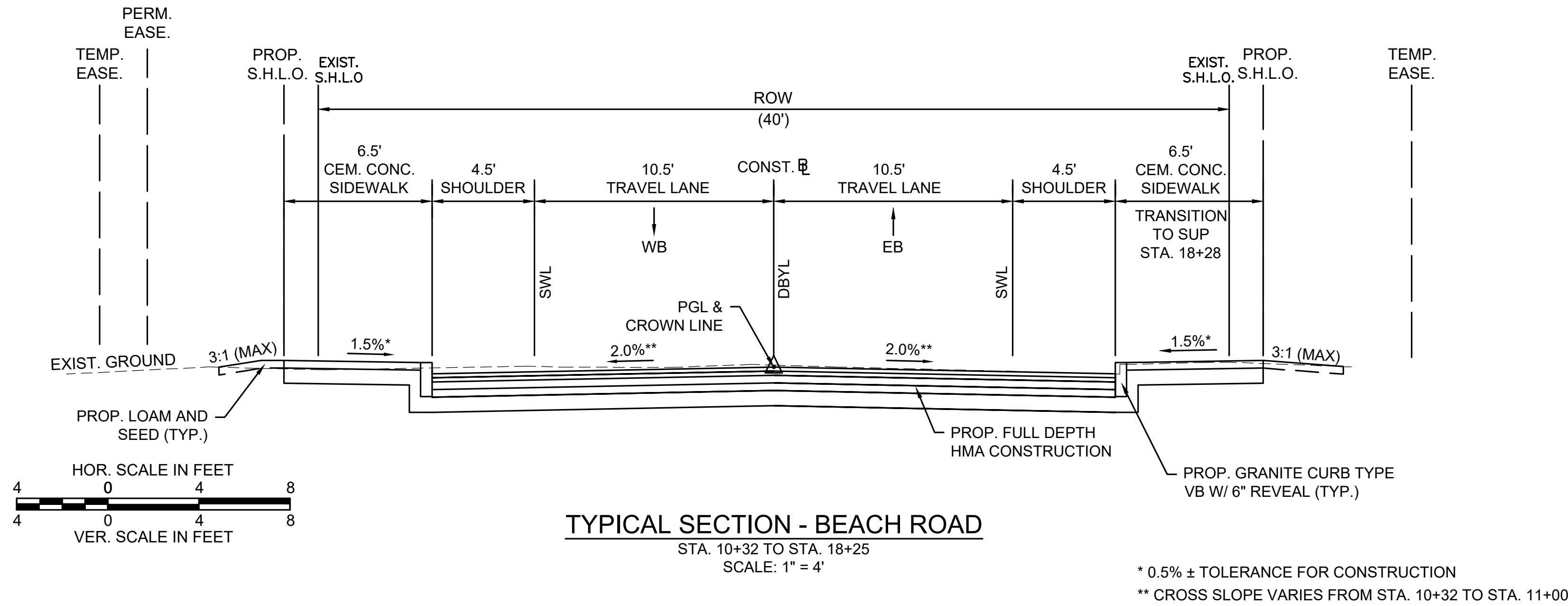
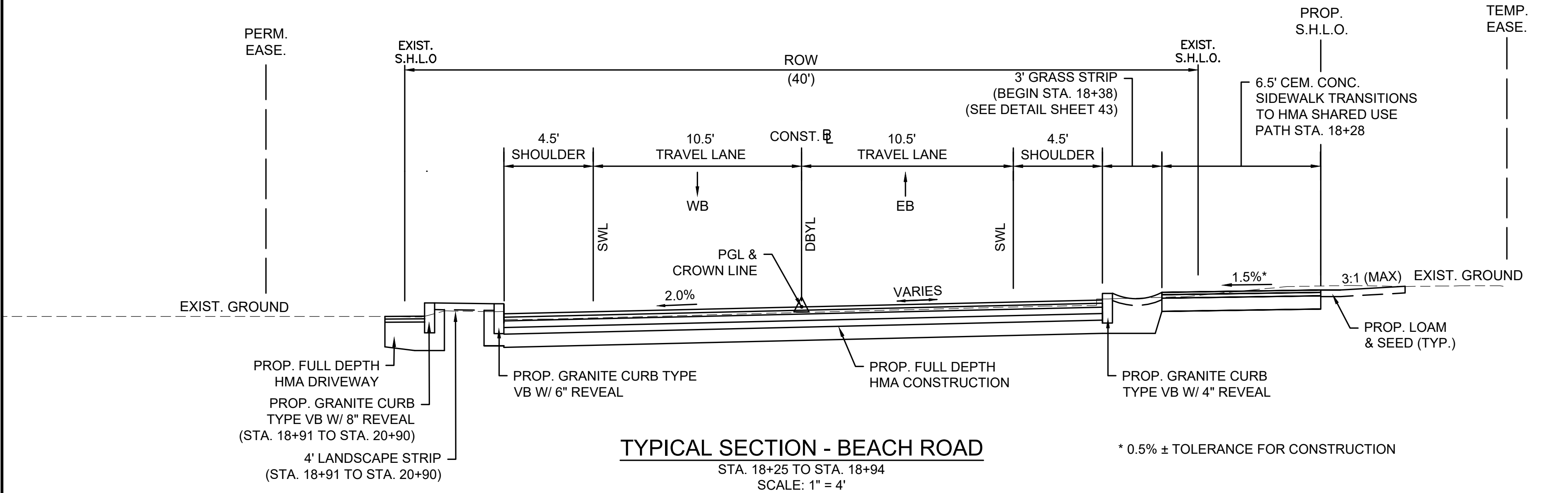
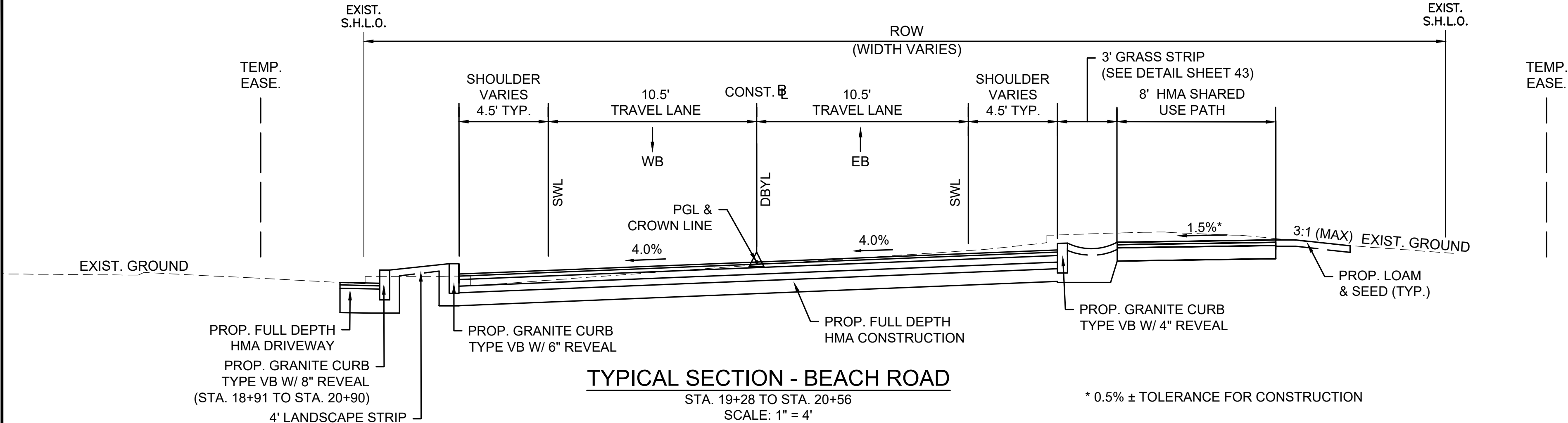
SURFACE COURSE: 4" CEMENT CONCRETE (AIR ENTRAINED 4000 PSI, 3/4", 610) OVER

SUBBASE: 8" GRAVEL BORROW TYPE B (OR SUITABLE EXISTING MATERIAL)

GENERAL NOTES:

- ALL SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1.5% (0.015 FT/FT). TOLERANCE FOR CONSTRUCTION SHALL BE $\pm 0.50\%$. IN NO CASE SHALL THE SIDEWALK CROSS SLOPE EXCEED 2.0% (0.02 FT/FT). SIDEWALKS SHALL HAVE A MINIMUM CLEAR PATH OF 36" FREE OF OBSTRUCTION (UTILITY POLES, HYDRANTS, ETC.).
- ASPHALT EMULSION FOR TACK COAT (RS-1h) SHALL BE APPLIED AT THE RATE OF 0.05 GALLONS PER SQUARE YARD OVER TIGHT PAVED SURFACES PER SECTION 450.53.
- THE CONTRACTOR IS HEREBY NOTIFIED THAT IT IS ANTICIPATED THAT THE EXISTING SUBBASE MAY BE SUITABLE FOR REUSE AS GRAVEL BORROW MATERIAL. THE EXISTING SUBBASE MATERIAL WILL BE TESTED BY MASSDOT. IF THE TESTING REVEALS THAT THE EXISTING SUBBASE MATERIAL IS SUITABLE FOR REUSE AS GRAVEL BORROW FOR FULL DEPTH CONSTRUCTION AREAS, IT SHALL BE RETAINED AND THE QUANTITIES FOR EXCAVATION, DENSE GRADED CRUSHED STONE AND GRAVEL BORROW SHALL BE ADJUSTED ACCORDINGLY.
- THE SECTIONS OF PROPOSED ROADWAY NOT COVERED IN THE RANGE OF STATIONS ASSOCIATED WITH THE TYPICAL SECTIONS ARE IN AREAS OF TRANSITION AND THEREFORE NOT COVERED. THESE SECTIONS ARE AS FOLLOWS:

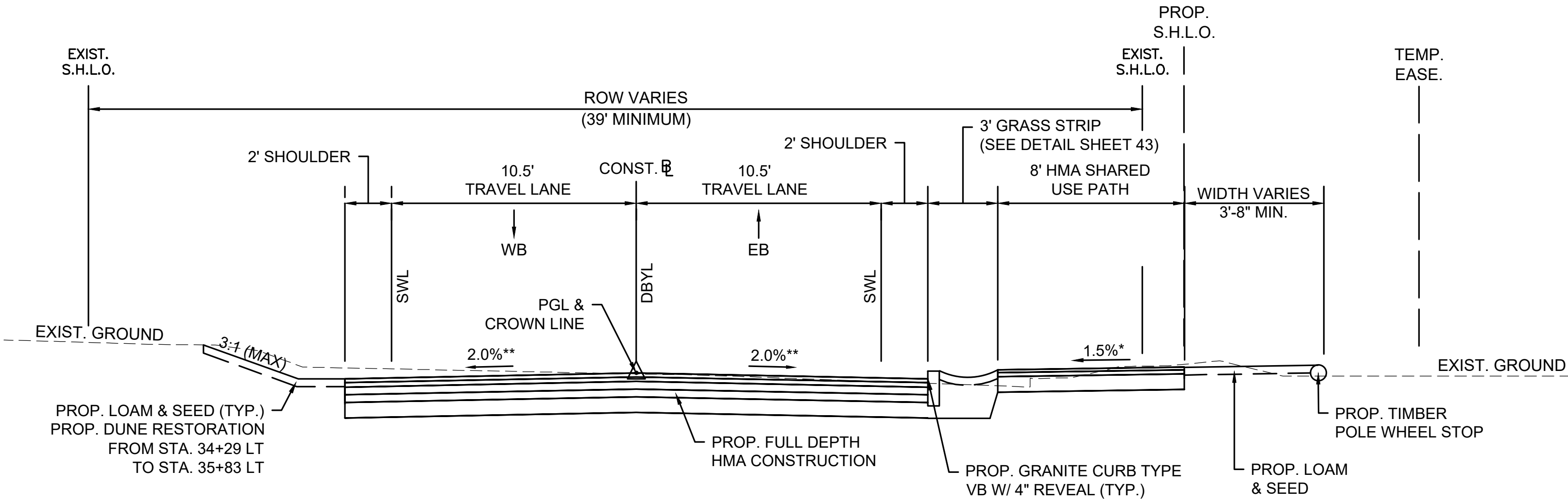
STA. 18+94 TO STA. 19+28 BEACH ROAD
STA. 20+56 TO STA. 20+91 BEACH ROAD
STA. 35+05 TO STA. 36+67 BEACH ROAD



TISBURY
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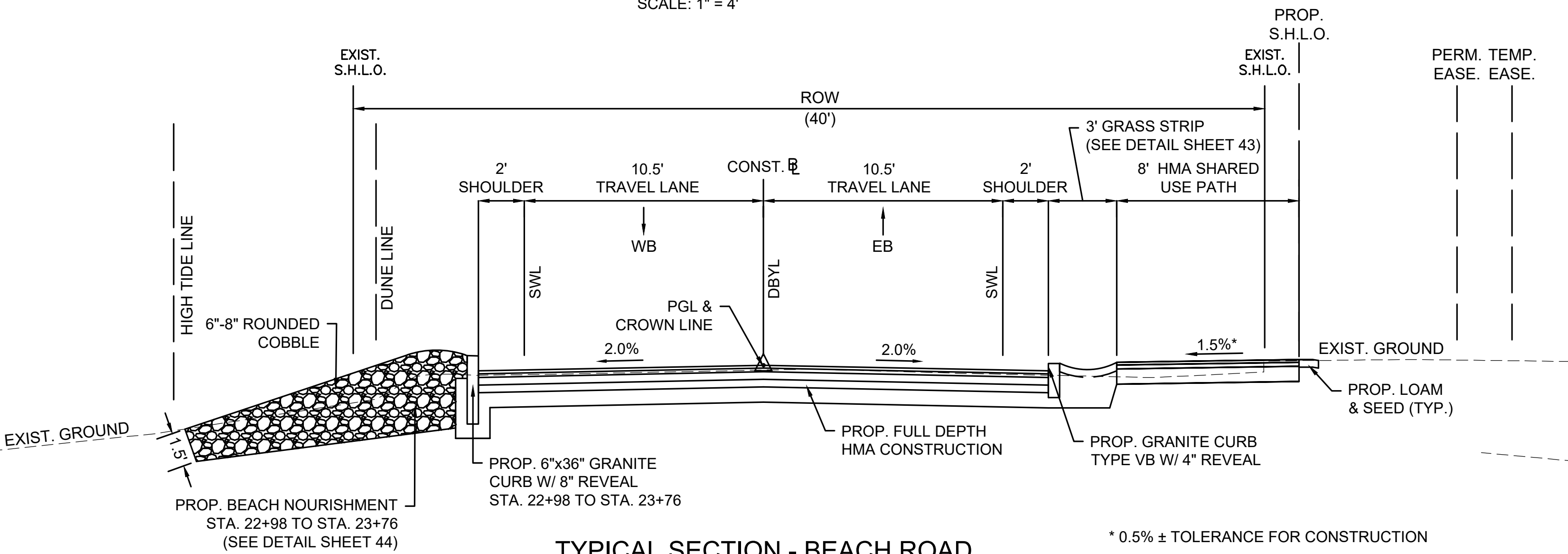
TYPICAL SECTIONS



TYPICAL SECTION - BEACH ROAD

STA. 23+76 TO STA. 28+65
STA. 30+58 TO STA. 35+05
SCALE: 1" = 4'

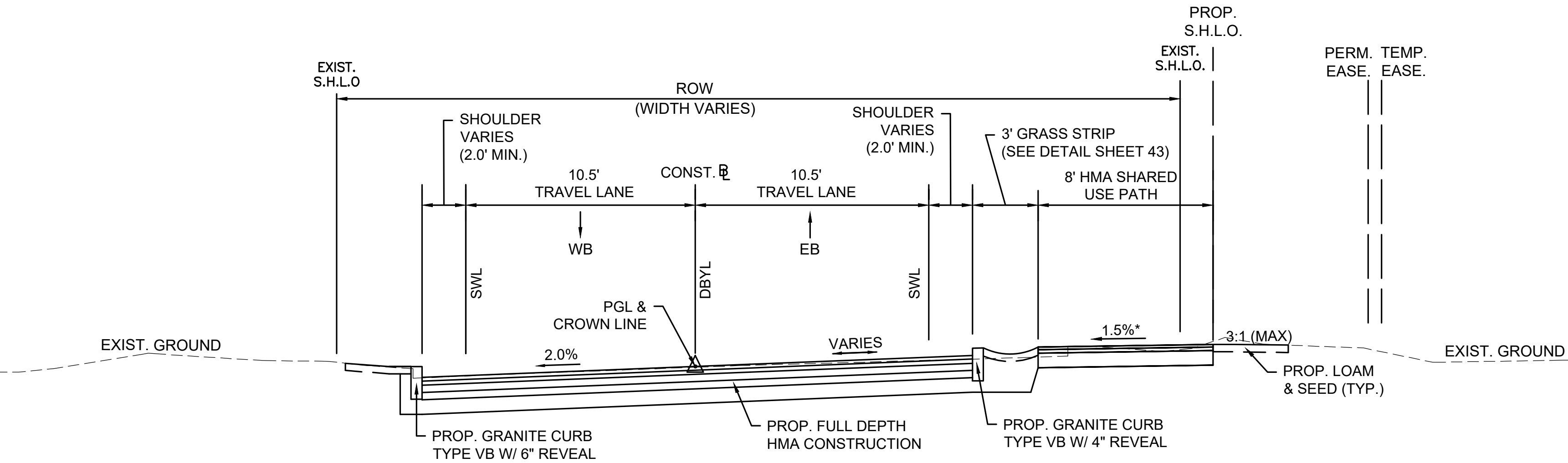
* 0.5% ± TOLERANCE FOR CONSTRUCTION
** CROSS SLOPE VARIES FROM STA. 36+00 TO STA. 36+67



TYPICAL SECTION - BEACH ROAD

STA. 21+59 TO STA. 23+76
SCALE: 1" = 4'

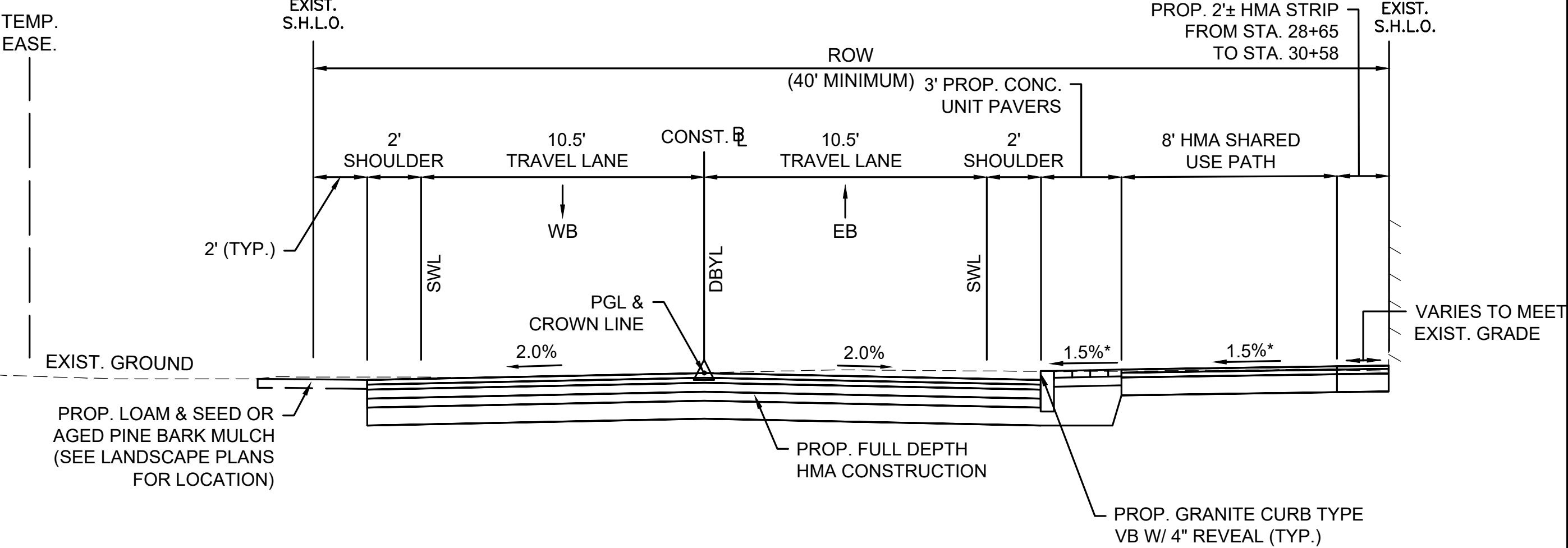
* 0.5% ± TOLERANCE FOR CONSTRUCTION



TYPICAL SECTION - BEACH ROAD

STA. 20+91 TO STA. 21+59
SCALE: 1" = 4'

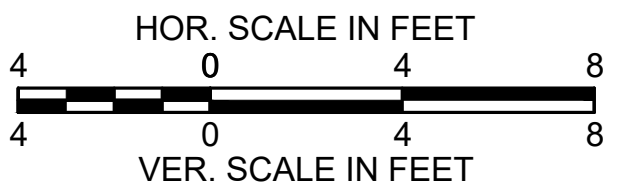
* 0.5% ± TOLERANCE FOR CONSTRUCTION



TYPICAL SECTION - BEACH ROAD

STA. 28+65 TO STA. 30+58
SCALE: 1" = 4'

* 0.5% ± TOLERANCE FOR CONSTRUCTION



HIGHWAY GUARD DETAILS
NONE

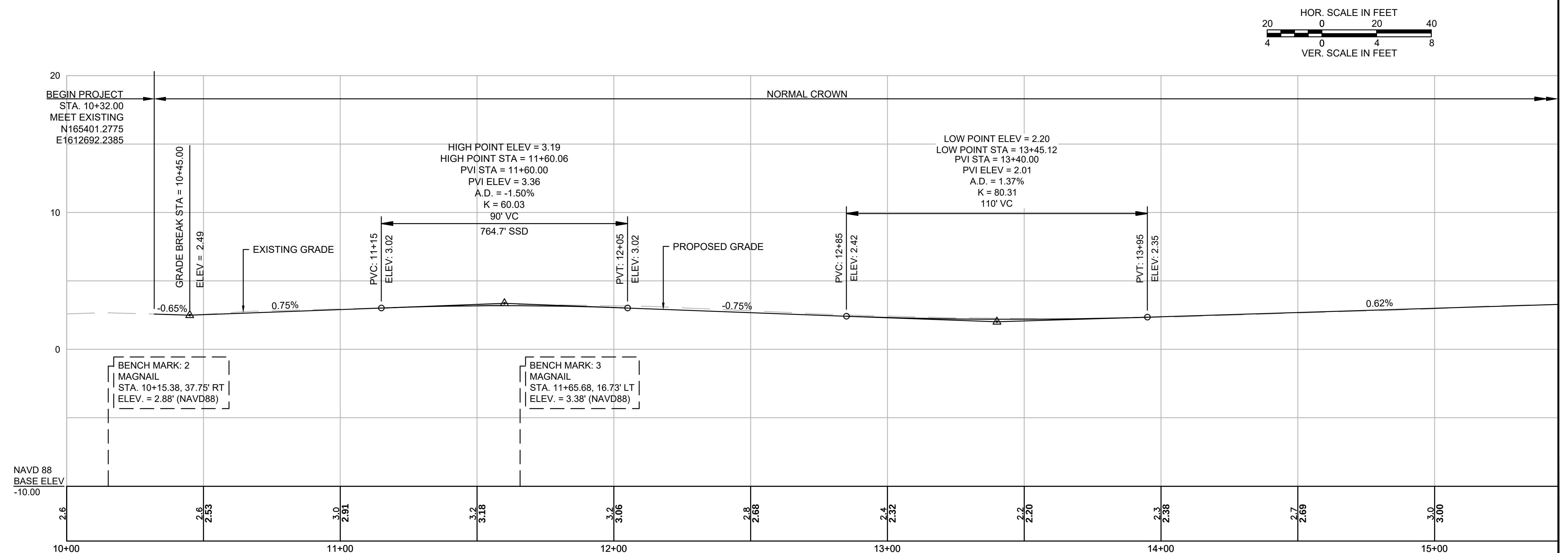
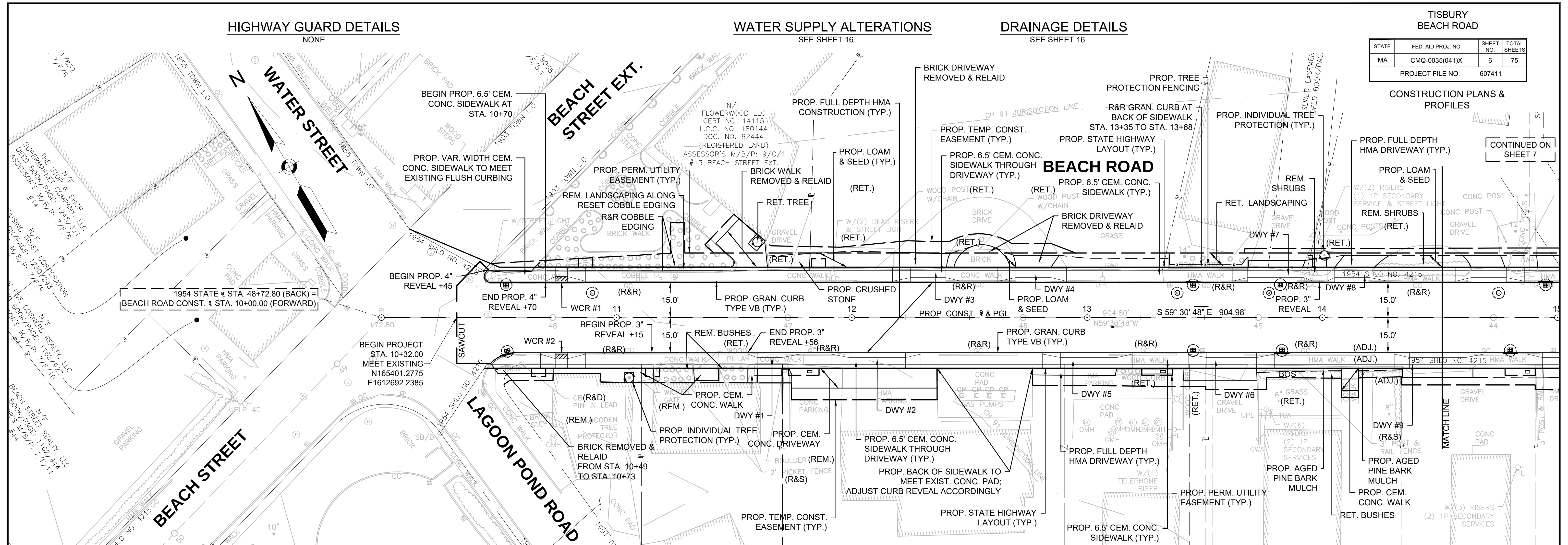
WATER SUPPLY ALTERATIONS
SEE SHEET 16

DRAINAGE DETAILS
SEE SHEET 16

TISBURY
BEACH ROAD

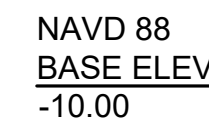
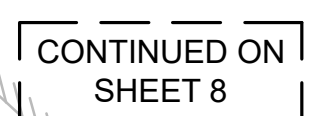
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CONSTRUCTION PLANS & PROFILES



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BEACH ROAD

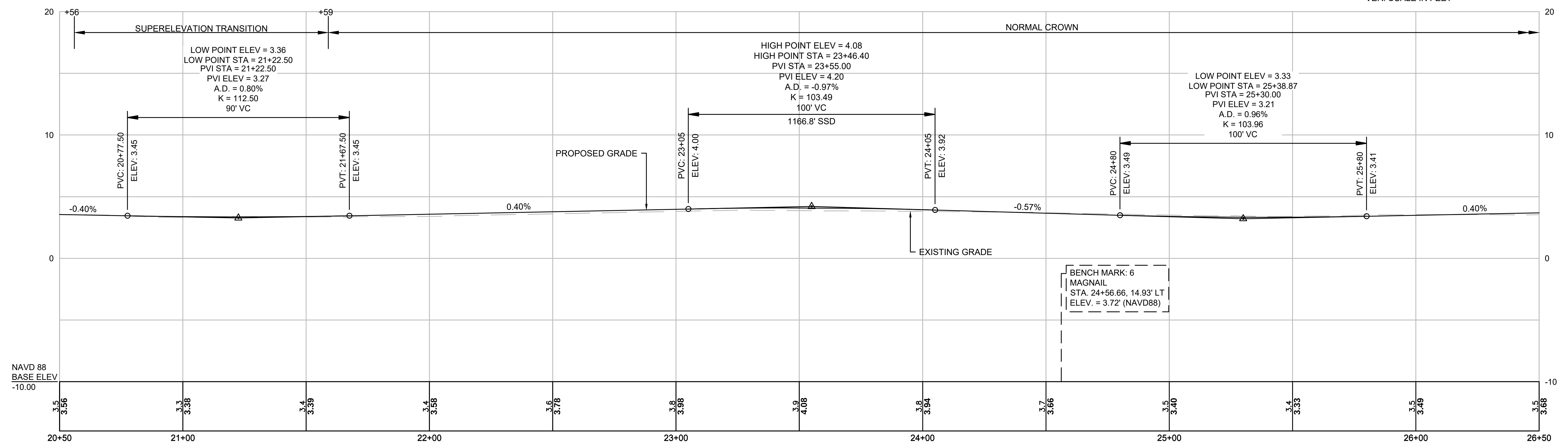
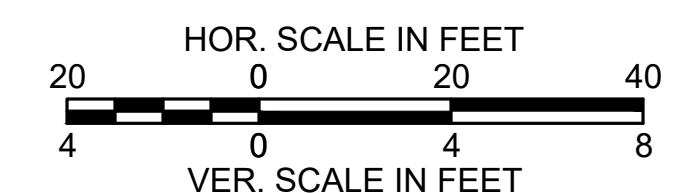
CONSTRUCTION PLANS & PROFILES



TISBURY
BEACH ROAD

CONSTRUCTION PLANS & PROFILES

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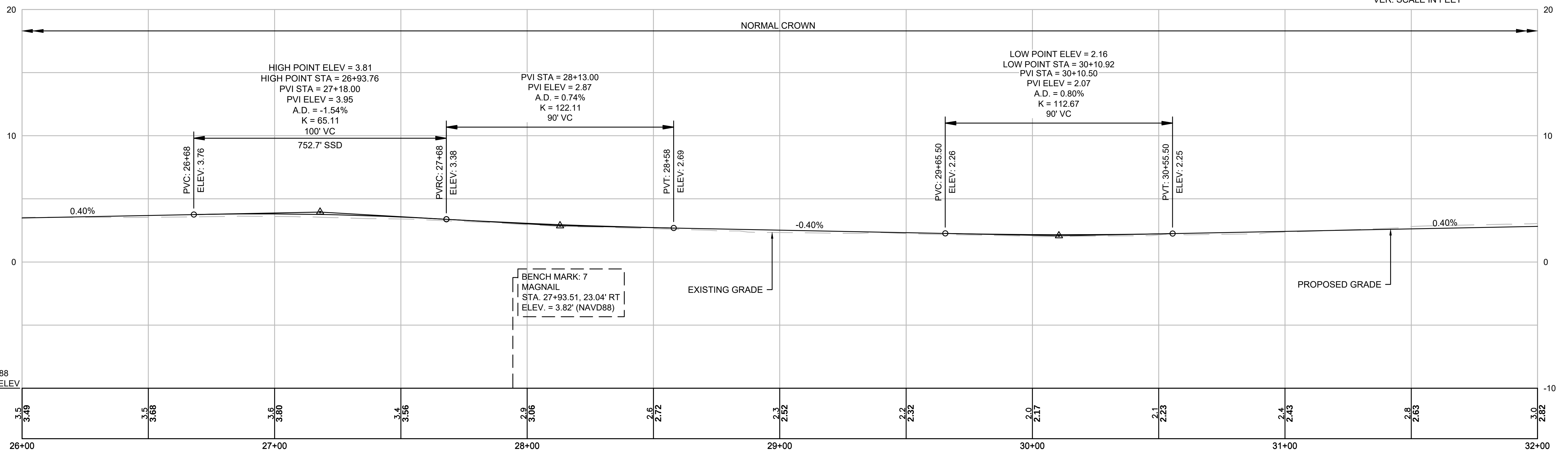
NONE

SEE SHEET 19

SEE SHEET 19

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MA	CMQ-0035(041)X	9	75
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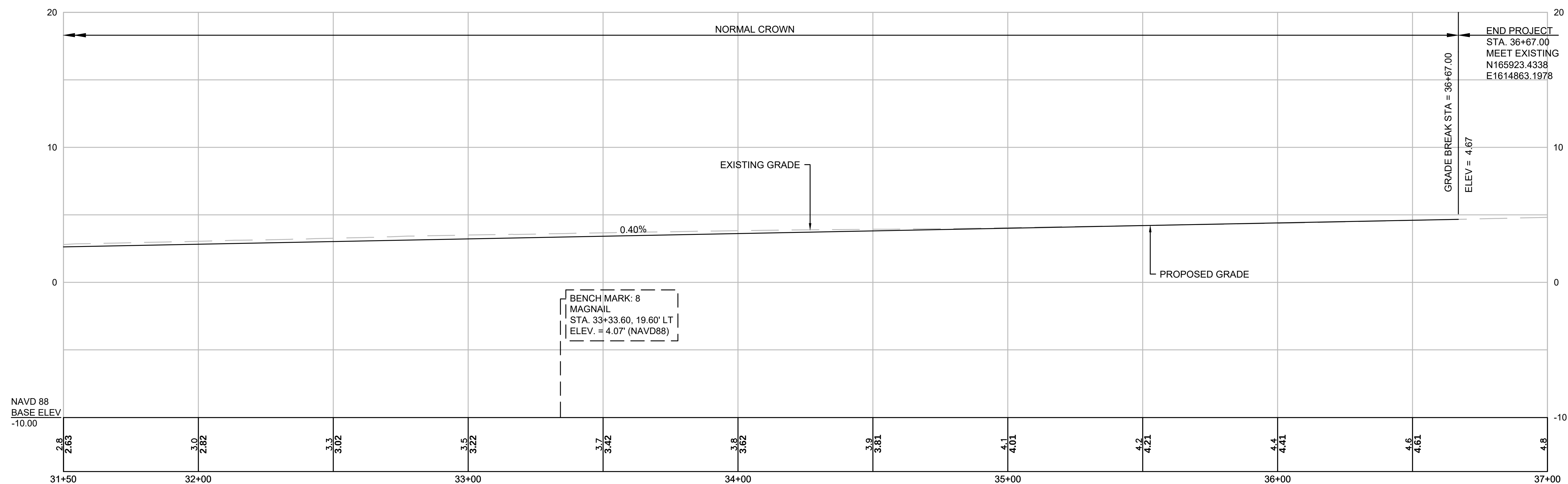
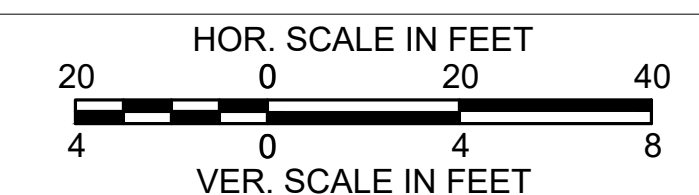
LCO EASEMEN
 E: 1243/107
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 AGE: 932/822

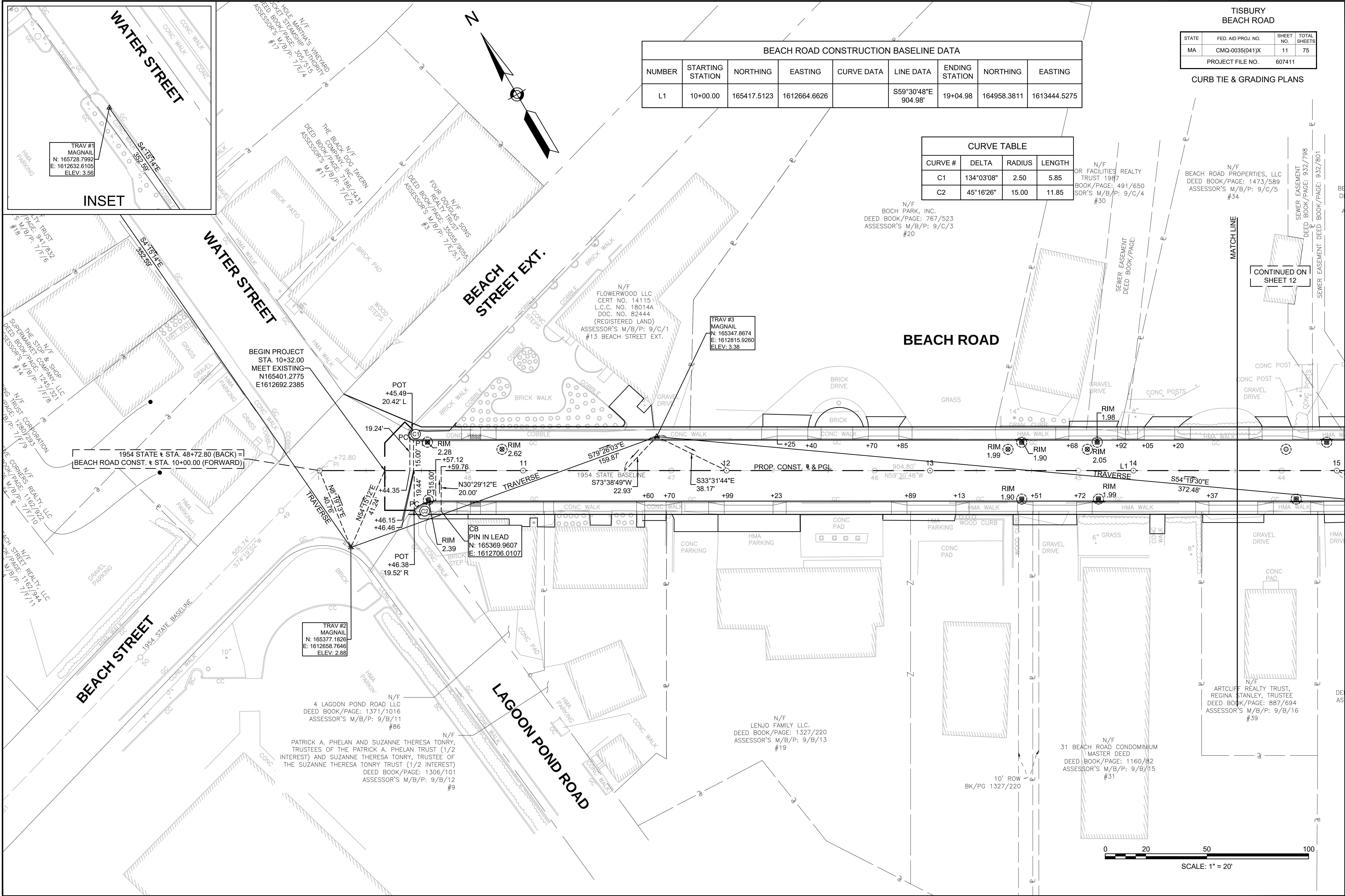


TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	10	75
PROJECT FILE NO.		607411	

END PROJECT
STA. 36+67.00
MEET EXISTING
N165923.4338
E1614863.1978



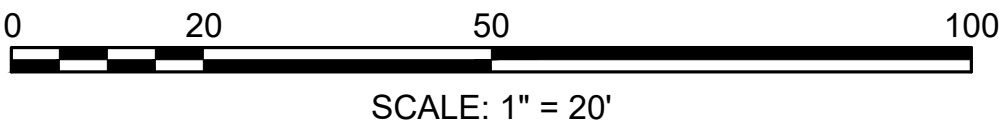


BEACH ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	10+00.00	165417.5123	1612664.6626		S59°30'48"E 904.98'	19+04.98	164958.3811	1613444.5275

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C1	134°03'08"	2.50	5.85
C2	45°16'26"	15.00	11.85

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	11	75
PROJECT FILE NO.		607411	

CURB TIE & GRADING PLANS



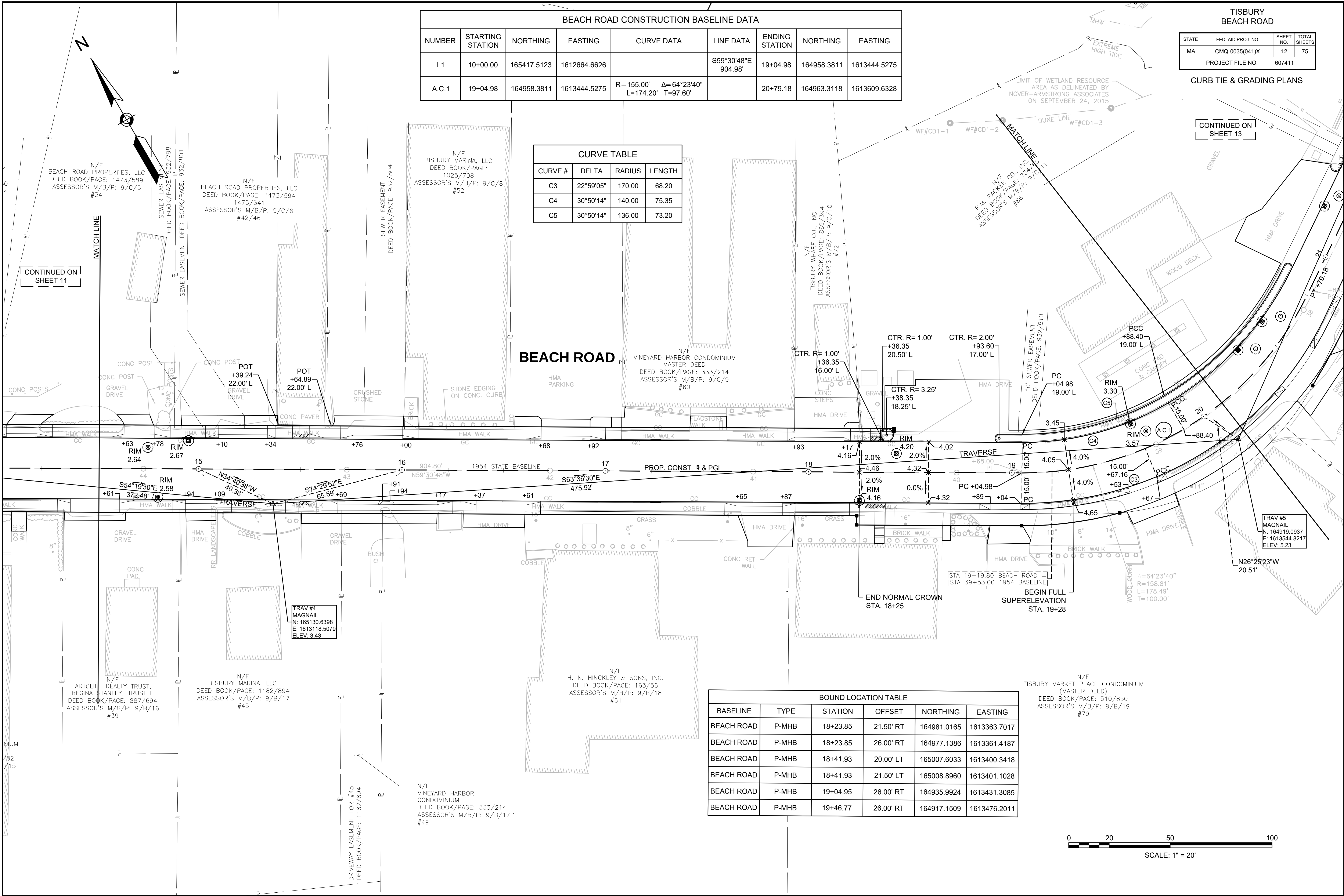
BEACH ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	10+00.00	165417.5123	1612664.6626		S59°30'48"E 904.98'	19+04.98	164958.3811	1613444.5275
A.C.1	19+04.98	164958.3811	1613444.5275	R=155.00' Δ=64°23'40" L=174.20' T=97.60'		20+79.18	164963.3118	1613609.6328

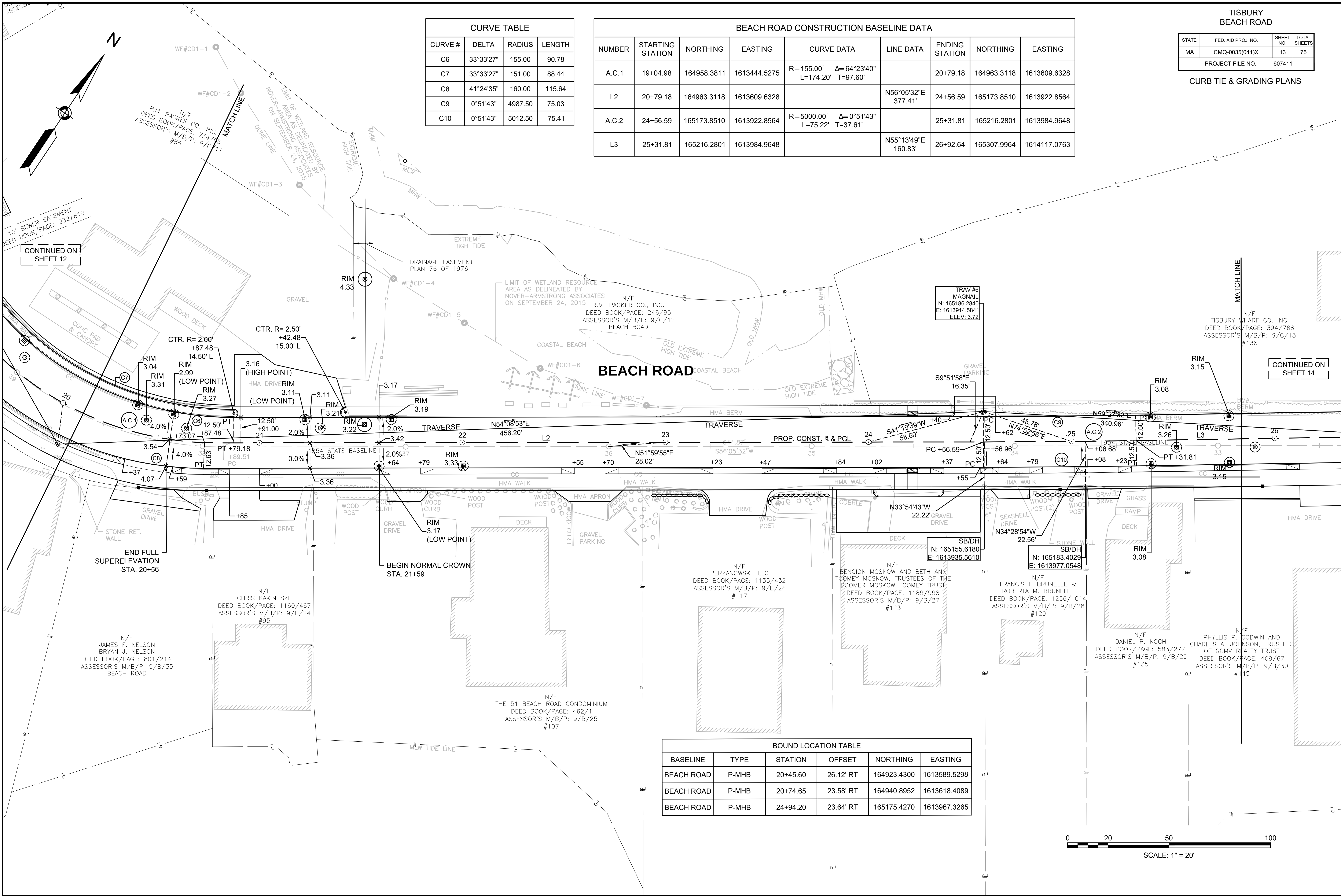
CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C3	22°59'05"	170.00	68.20
C4	30°50'14"	140.00	75.35
C5	30°50'14"	136.00	73.20

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	12	75
PROJECT FILE NO.		607411	

CURB TIE & GRADING PLANS

CONTINUED ON SHEET 13





CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C6	33°33'27"	155.00	90.78
C7	33°33'27"	151.00	88.44
C8	41°24'35"	160.00	115.64
C9	0°51'43"	4987.50	75.03
C10	0°51'43"	5012.50	75.41

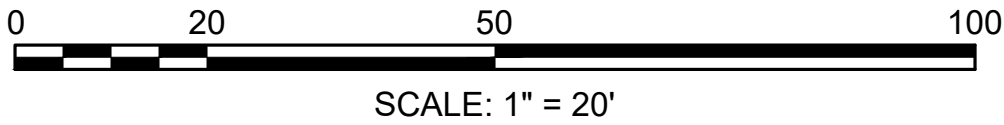
BEACH ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
A.C.1	19+04.98	164958.3811	1613444.5275	R = 155.00' Δ= 64°23'40" L=174.20' T=97.60'		20+79.18	164963.3118	1613609.6328
L2	20+79.18	164963.3118	1613609.6328		N56°05'32"E 377.41'	24+56.59	165173.8510	1613922.8564
A.C.2	24+56.59	165173.8510	1613922.8564	R = 5000.00' Δ= 0°51'43" L=75.22' T=37.61'		25+31.81	165216.2801	1613984.9648
L3	25+31.81	165216.2801	1613984.9648		N55°13'49"E 160.83'	26+92.64	165307.9964	1614117.0763

TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	13	75
PROJECT FILE NO.		607411	

CURB TIE & GRADING PLANS

BOUND LOCATION TABLE					
BASELINE	TYPE	STATION	OFFSET	NORTHING	EASTING
BEACH ROAD	P-MHB	20+45.60	26.12' RT	164923.4300	1613589.5298
BEACH ROAD	P-MHB	20+74.65	23.58' RT	164940.8952	1613618.4089
BEACH ROAD	P-MHB	24+94.20	23.64' RT	165175.4270	1613967.3265



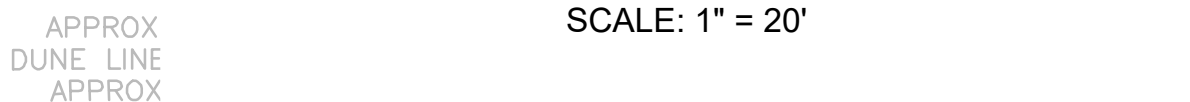
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	14	75
PROJECT FILE NO.		607411	

CURB TIE & GRADING PLAN

BEACH ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L3	25+31.81	165216.2801	1613984.9648		N55°13'49"E 160.83'	26+92.64	165307.9964	1614117.0763
A.C.3	26+92.64	165307.9964	1614117.0763	R = 350.00' Δ= 11°10'07" L=68.23' T=34.22'		27+60.86	165352.1029	1614168.9856
L4	27+60.86	165352.1029	1614168.9856		N44°03'42"E 398.93'	31+59.79	165638.7698	1614446.4135

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C11	11°10'07"	362.50	70.66
C12	11°10'07"	337.50	65.79

BOUND LOCATION TABLE					
BASELINE	TYPE	STATION	OFFSET	NORTHING	EASTING
BEACH ROAD	P-MHB	25+93.73	23.50' RT	165232.2876	1614049.2304
BEACH ROAD	P-MHB	26+90.78	15.04' LT	165319.2951	1614106.9705
BEACH ROAD	P-MHB	27+62.94	14.50' LT	165363.6815	1614160.0127

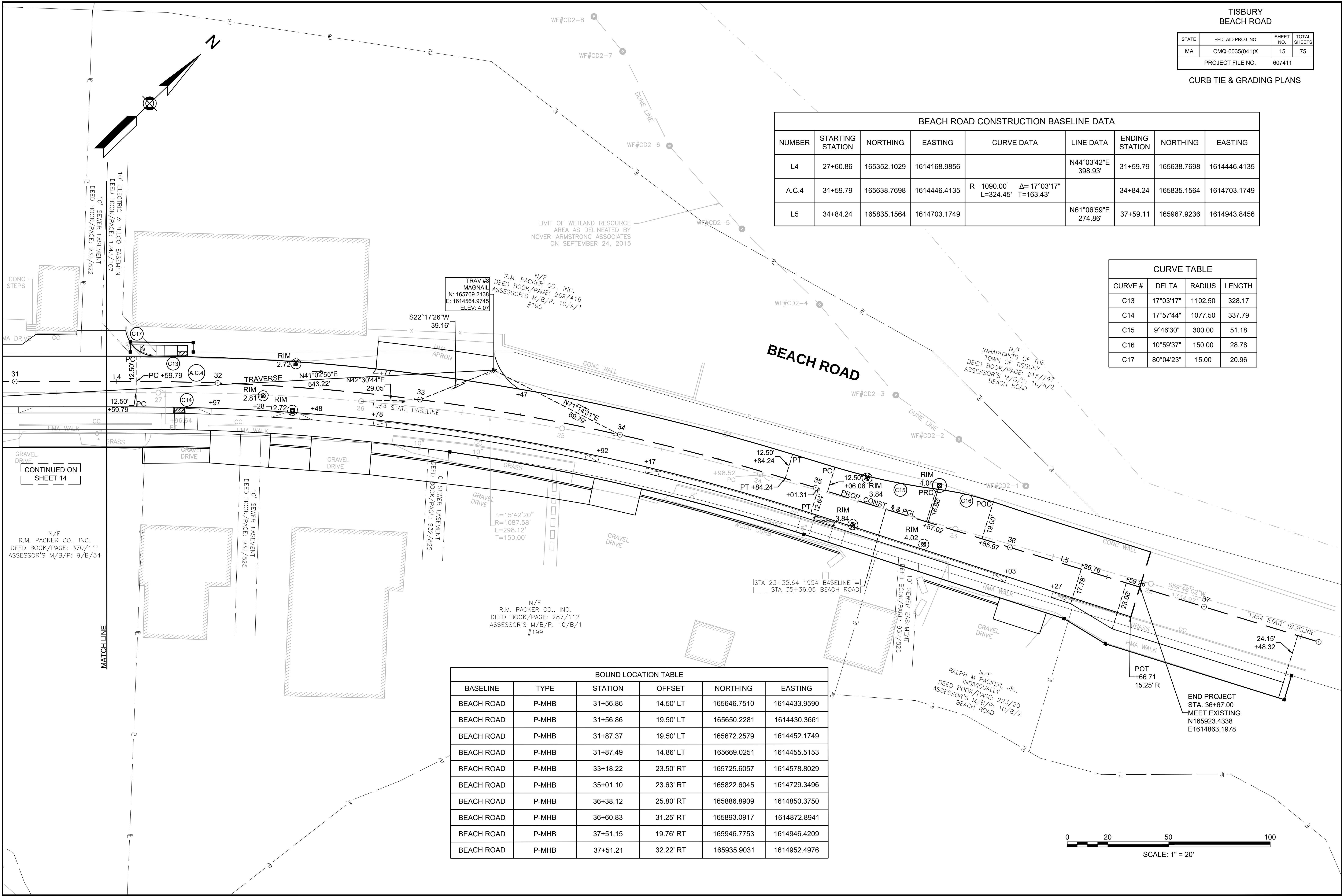
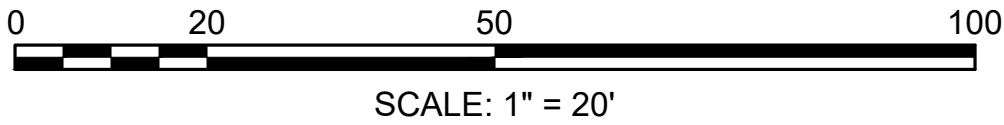


SCALE: 1" = 3'

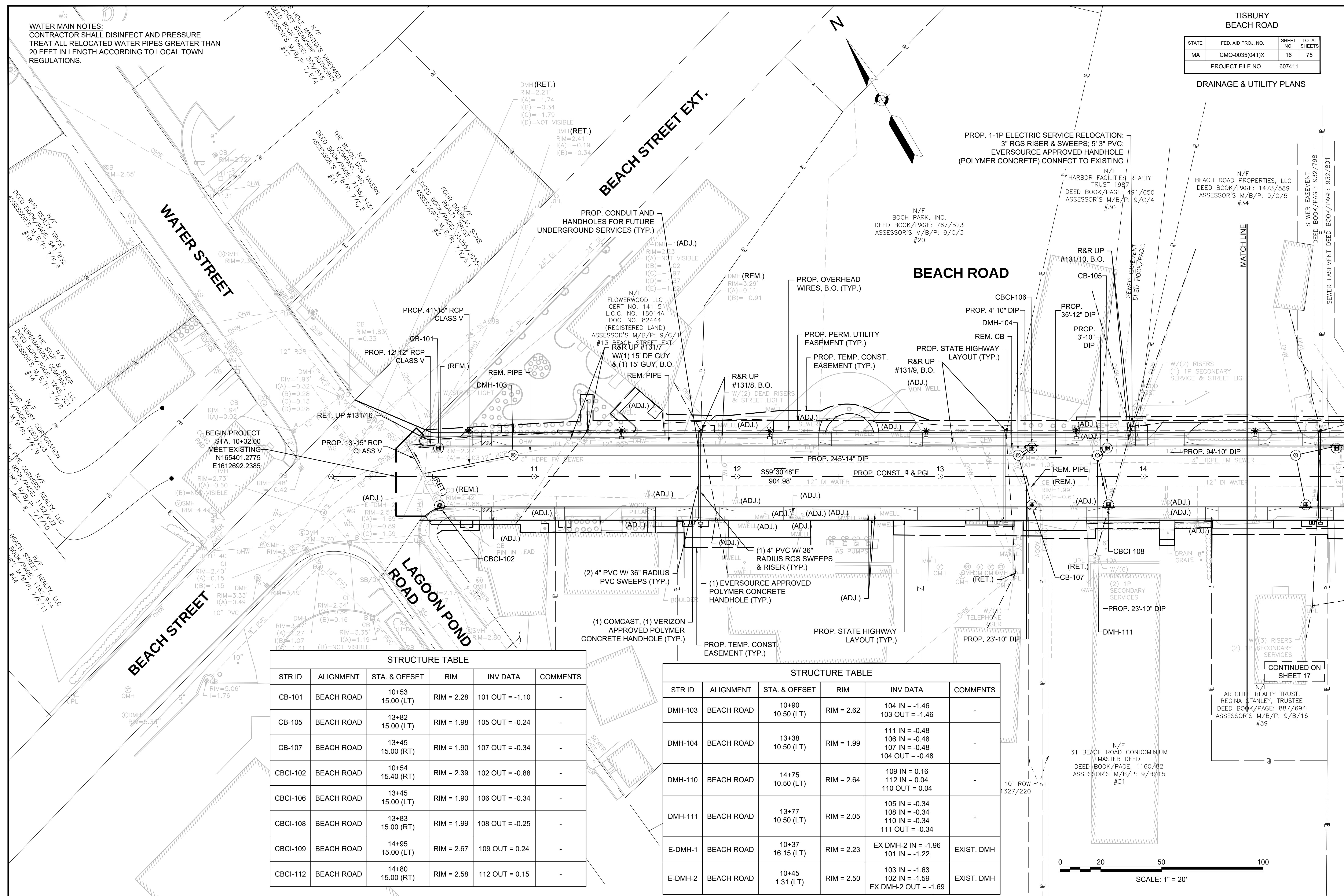
BEACH ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L4	27+60.86	165352.1029	1614168.9856		N44°03'42"E 398.93'	31+59.79	165638.7698	1614446.4135
A.C.4	31+59.79	165638.7698	1614446.4135	R=1090.00' Δ=17°03'17" L=324.45' T=163.43'		34+84.24	165835.1564	1614703.1749
L5	34+84.24	165835.1564	1614703.1749		N61°06'59"E 274.86'	37+59.11	165967.9236	1614943.8456

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C13	17°03'17"	1102.50	328.17
C14	17°57'44"	1077.50	337.79
C15	9°46'30"	300.00	51.18
C16	10°59'37"	150.00	28.78
C17	80°04'23"	15.00	20.96

BOUND LOCATION TABLE					
BASELINE	TYPE	STATION	OFFSET	NORTHING	EASTING
BEACH ROAD	P-MHB	31+56.86	14.50' LT	165646.7510	1614433.9590
BEACH ROAD	P-MHB	31+56.86	19.50' LT	165650.2281	1614430.3661
BEACH ROAD	P-MHB	31+87.37	19.50' LT	165672.2579	1614452.1749
BEACH ROAD	P-MHB	31+87.49	14.86' LT	165669.0251	1614455.5153
BEACH ROAD	P-MHB	33+18.22	23.50' RT	165725.6057	1614578.8029
BEACH ROAD	P-MHB	35+01.10	23.63' RT	165822.6045	1614729.3496
BEACH ROAD	P-MHB	36+38.12	25.80' RT	165886.8909	1614850.3750
BEACH ROAD	P-MHB	36+60.83	31.25' RT	165893.0917	1614872.8941
BEACH ROAD	P-MHB	37+51.15	19.76' RT	165946.7753	1614946.4209
BEACH ROAD	P-MHB	37+51.21	32.22' RT	165935.9031	1614952.4976



WATER MAIN NOTES:
CONTRACTOR SHALL DISINFECT AND PRESSURE
TREAT ALL RELOCATED WATER PIPES GREATER THAN
20 FEET IN LENGTH ACCORDING TO LOCAL TOWN
REGULATIONS.



TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	17	75
PROJECT FILE NO.		607411	

DRAINAGE & UTILITY PLANS

CONTINUED ON
SHEET 18

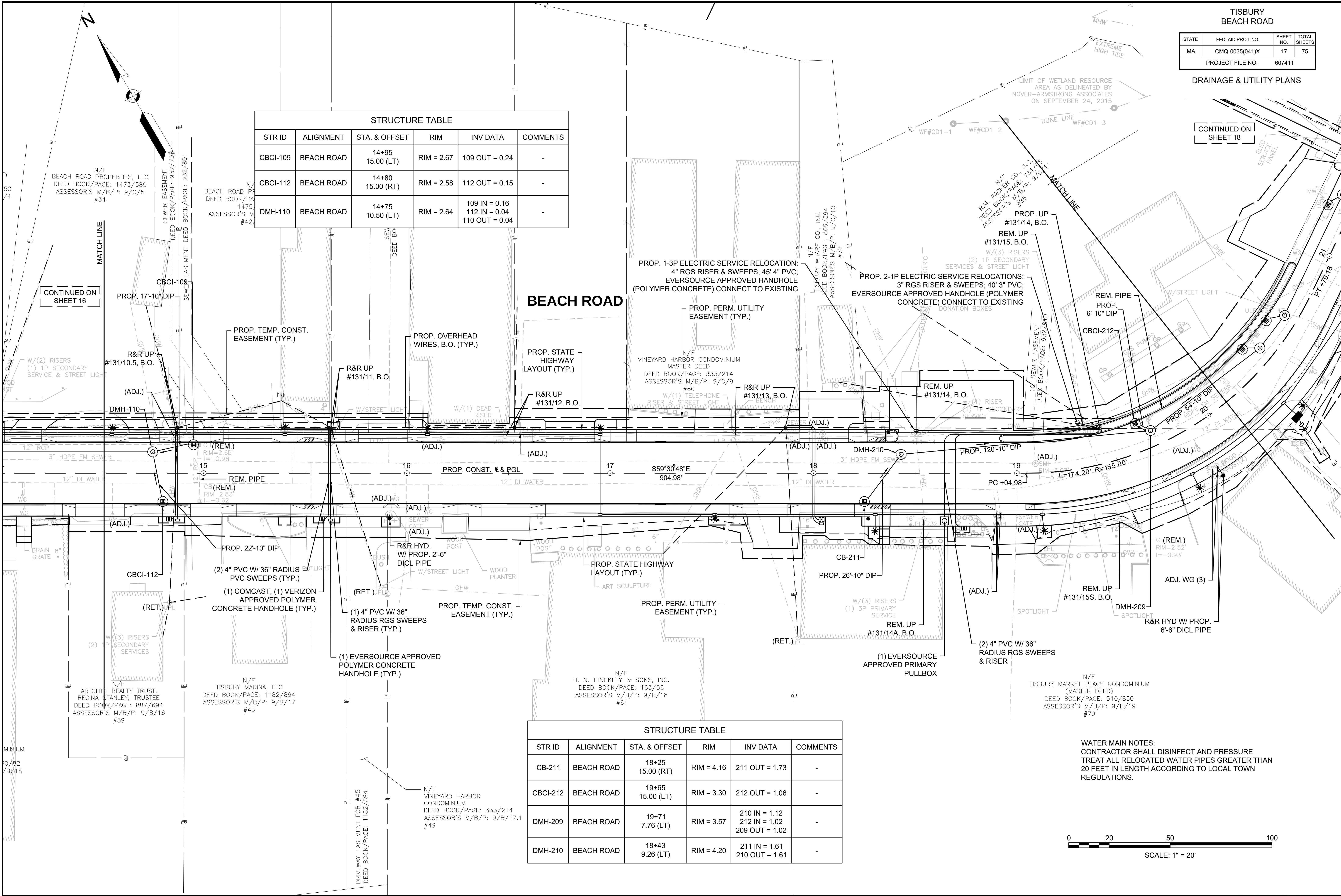
STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CBCI-109	BEACH ROAD	14+95 15.00 (LT)	RIM = 2.67	109 OUT = 0.24	-
CBCI-112	BEACH ROAD	14+80 15.00 (RT)	RIM = 2.58	112 OUT = 0.15	-
DMH-110	BEACH ROAD	14+75 10.50 (LT)	RIM = 2.64	109 IN = 0.16 112 IN = 0.04 110 OUT = 0.04	-

BEACH ROAD

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-211	BEACH ROAD	18+25 15.00 (RT)	RIM = 4.16	211 OUT = 1.73	-
CBCI-212	BEACH ROAD	19+65 15.00 (LT)	RIM = 3.30	212 OUT = 1.06	-
DMH-209	BEACH ROAD	19+71 7.76 (LT)	RIM = 3.57	210 IN = 1.12 212 IN = 1.02 209 OUT = 1.02	-
DMH-210	BEACH ROAD	18+43 9.26 (LT)	RIM = 4.20	211 IN = 1.61 210 OUT = 1.61	-

0 20 50 100
SCALE: 1" = 20'

WATER MAIN NOTES:
CONTRACTOR SHALL DISINFECT AND PRESSURE
TREAT ALL RELOCATED WATER PIPES GREATER THAN
20 FEET IN LENGTH ACCORDING TO LOCAL TOWN
REGULATIONS.



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	18	75
PROJECT FILE NO.		607411	

DRAINAGE & UTILITY PLANS

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-320	BEACH ROAD	25+78 12.50 (LT)	RIM = 3.15	320 OUT = 0.64	-
CB-321	BEACH ROAD	25+78 12.50 (RT)	RIM = 3.15	321 OUT = 0.58	-
CB-323	BEACH ROAD	25+39 12.50 (LT)	RIM = 3.08	323 OUT = 0.66	-
CB-324	BEACH ROAD	25+39 12.50 (RT)	RIM = 3.08	324 OUT = 0.66	-
DMH-322	BEACH ROAD	25+52 3.59 (RT)	RIM = 3.26	324 IN = 0.57 323 IN = 0.57 322 OUT = 0.57	-

BEACH ROAD

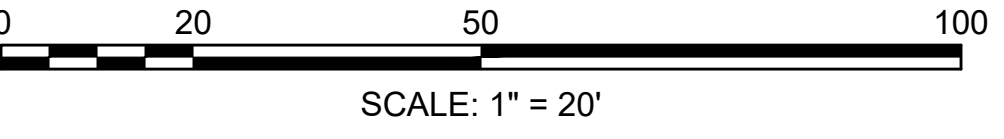
PROP. 2-1P ELECTRIC SERVICE RELOCATIONS:
4" RGS RISER & SWEEPS; 55' 4" PVC;
EVERSOURCE APPROVED HANDHOLE (POLYMER
CONCRETE) CONNECT TO EXISTING

PROP. BEACH NOURISHMENT
(SEE DETAILS SHEET 44)

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-201	BEACH ROAD	22+00 12.50 (RT)	RIM = 3.33	201 OUT = 0.70	-
CB-202	BEACH ROAD	21+59 12.50 (RT)	RIM = 3.17	202 OUT = 0.50	-
CB-215	BEACH ROAD	21+22 12.49 (LT)	RIM = 3.11	215 OUT = 0.48	-
CBCI-203	BEACH ROAD	21+65 12.50 (LT)	RIM = 3.19	203 OUT = 0.50	-
CBCI-205	BEACH ROAD	20+56 13.73 (LT)	RIM = 2.99	205 OUT = 0.58	-
CBCI-208	BEACH ROAD	20+36 14.36 (LT)	RIM = 3.04	208 OUT = 0.68	-
DMH-204	BEACH ROAD	20+64 6.50 (LT)	RIM = 3.27	207 IN = 0.54 205 IN = 0.54 204 OUT = 0.54	-

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
DMH-207	BEACH ROAD	20+42 7.14 (LT)	RIM = 3.31	209 IN = 0.75 208 IN = 0.64 207 OUT = 0.64	-
SPECIAL DMH-213	BEACH ROAD	21+52 8.91 (LT)	RIM = 3.22	216 IN = 0.18 201 IN = 0.32 203 IN = 0.37 202 IN = 0.37 213 OUT = 0.18	6' INSIDE DIAM.
SPECIAL DMH-214	BEACH ROAD	21+52 80.51 (LT)	RIM = 4.33	213 IN = -0.16 214 OUT = -1.01 (EXISTING)	6' INSIDE DIAM.
DMH-216	BEACH ROAD	21+30 7.26 (LT)	RIM = 3.22	204 IN = 0.27 215 IN = 0.43 216 OUT = 0.27	-

WATER MAIN NOTES:
CONTRACTOR SHALL DISINFECT AND PRESSURE
TREAT ALL RELOCATED WATER PIPES GREATER THAN
20 FEET IN LENGTH ACCORDING TO LOCAL TOWN
REGULATIONS.



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	19	75
PROJECT FILE NO.		607411	

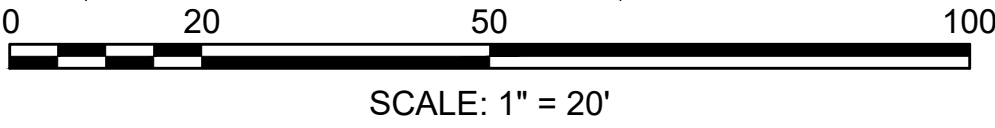
DRAINAGE & UTILITY PLANS

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-307	BEACH ROAD	30+31 12.50 (LT)	RIM = 1.93	307 OUT = -1.33	OFFSET COVER
CB-308	BEACH ROAD	30+31 12.50 (RT)	RIM = 1.93	308 OUT = -1.29	-
CB-310	BEACH ROAD	30+11 12.50 (LT)	RIM = 1.91	310 OUT = -1.37	OFFSET COVER
CB-311	BEACH ROAD	30+11 12.50 (RT)	RIM = 1.91	311 OUT = -1.37	-
CB-315	BEACH ROAD	28+60 12.48 (LT)	RIM = 2.43	315 OUT = -0.87	-
CB-316	BEACH ROAD	28+60 12.50 (RT)	RIM = 2.43	316 OUT = -0.84	-
DMH-304	BEACH ROAD	30+77 3.46 (RT)	RIM = 2.27	306 IN = -1.96 302 IN = -1.96 304 OUT = -1.96	-

STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
DMH-306	BEACH ROAD	30+36 3.73 (RT)	RIM = 2.12	309 IN = -1.78 308 IN = -1.36 307 IN = -1.47 306 OUT = -1.78	-
DMH-309	BEACH ROAD	30+16 3.86 (RT)	RIM = 2.09	314 IN = -1.68 311 IN = -1.44 310 IN = -1.51 309 OUT = -1.68	-
DMH-314	BEACH ROAD	28+73 4.14 (RT)	RIM = 2.54	317 IN = -1.02 316 IN = -0.93 315 IN = -1.02 314 OUT = -1.02	-
DMH-317	BEACH ROAD	27+30 4.78 (RT)	RIM = 3.61	319 IN = -0.28 317 OUT = -0.28	-
DMH-319	BEACH ROAD	25+90 4.14 (RT)	RIM = 3.37	322 IN = 0.40 321 IN = 0.47 320 IN = 0.47 319 OUT = 0.40	-
SPECIAL DMH-325	BEACH ROAD	30+85 19.71 (RT)	RIM = 2.59	304 IN = -2.05 325 OUT = -2.05	6' INSIDE DIAM.

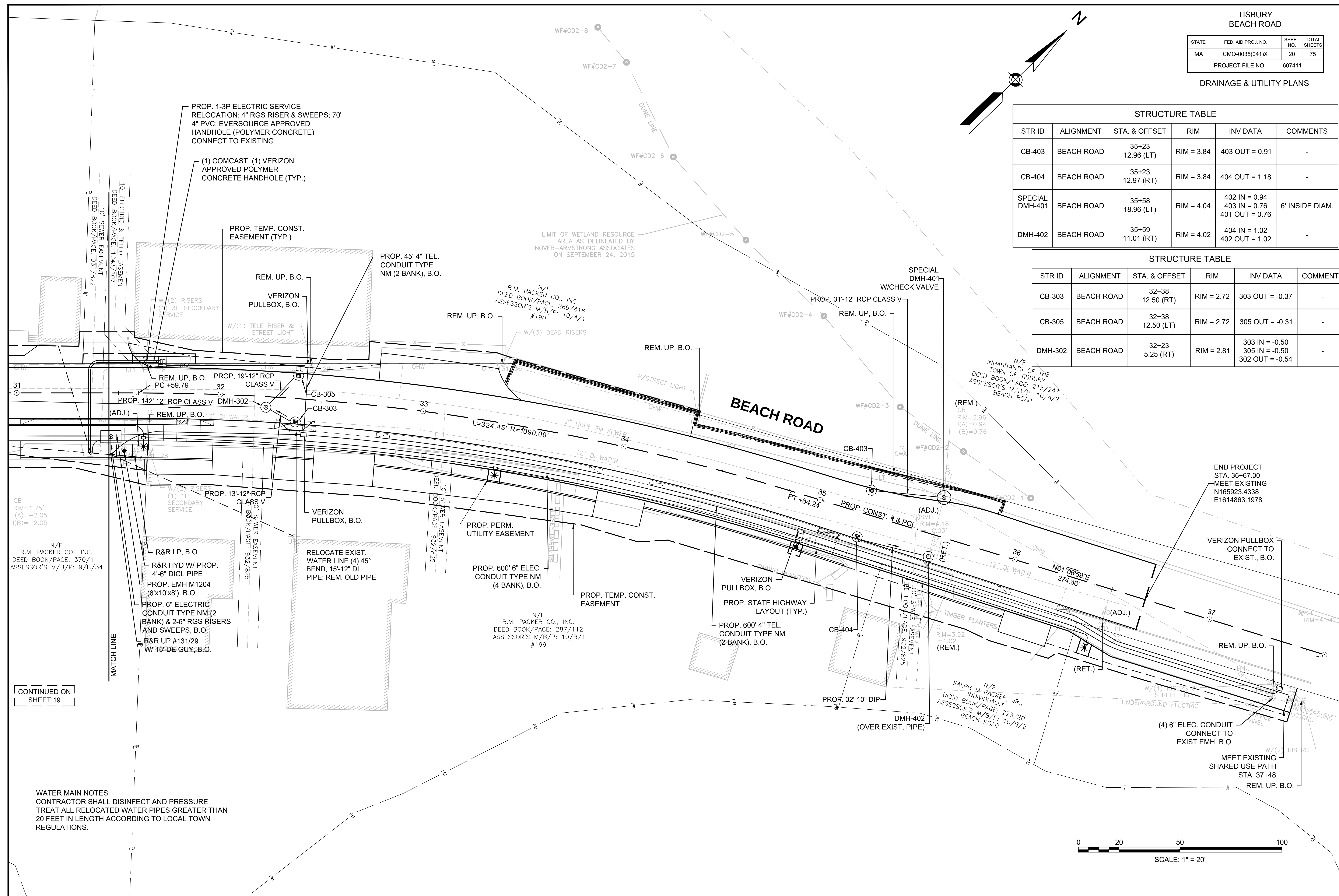
BEACH ROAD

WATER MAIN NOTES:
CONTRACTOR SHALL DISINFECT AND PRESSURE TREAT ALL RELOCATED WATER PIPES GREATER THAN 20 FEET IN LENGTH ACCORDING TO LOCAL TOWN REGULATIONS.



STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENTS
CB-403	BEACH ROAD	35+23 12.96 (LT)	RIM = 3.84	403 OUT = 0.91	-
CB-404	BEACH ROAD	35+23 12.97 (RT)	RIM = 3.84	404 OUT = 1.18	-
SPECIAL DMH-401	BEACH ROAD	35+58 18.96 (LT)	RIM = 4.04	402 IN = 0.94 403 IN = 0.76 401 OUT = 0.76	6' INSIDE DIAM
DMH-402	BEACH ROAD	35+59 11.01 (RT)	RIM = 4.02	404 IN = 1.02 402 OUT = 1.02	-

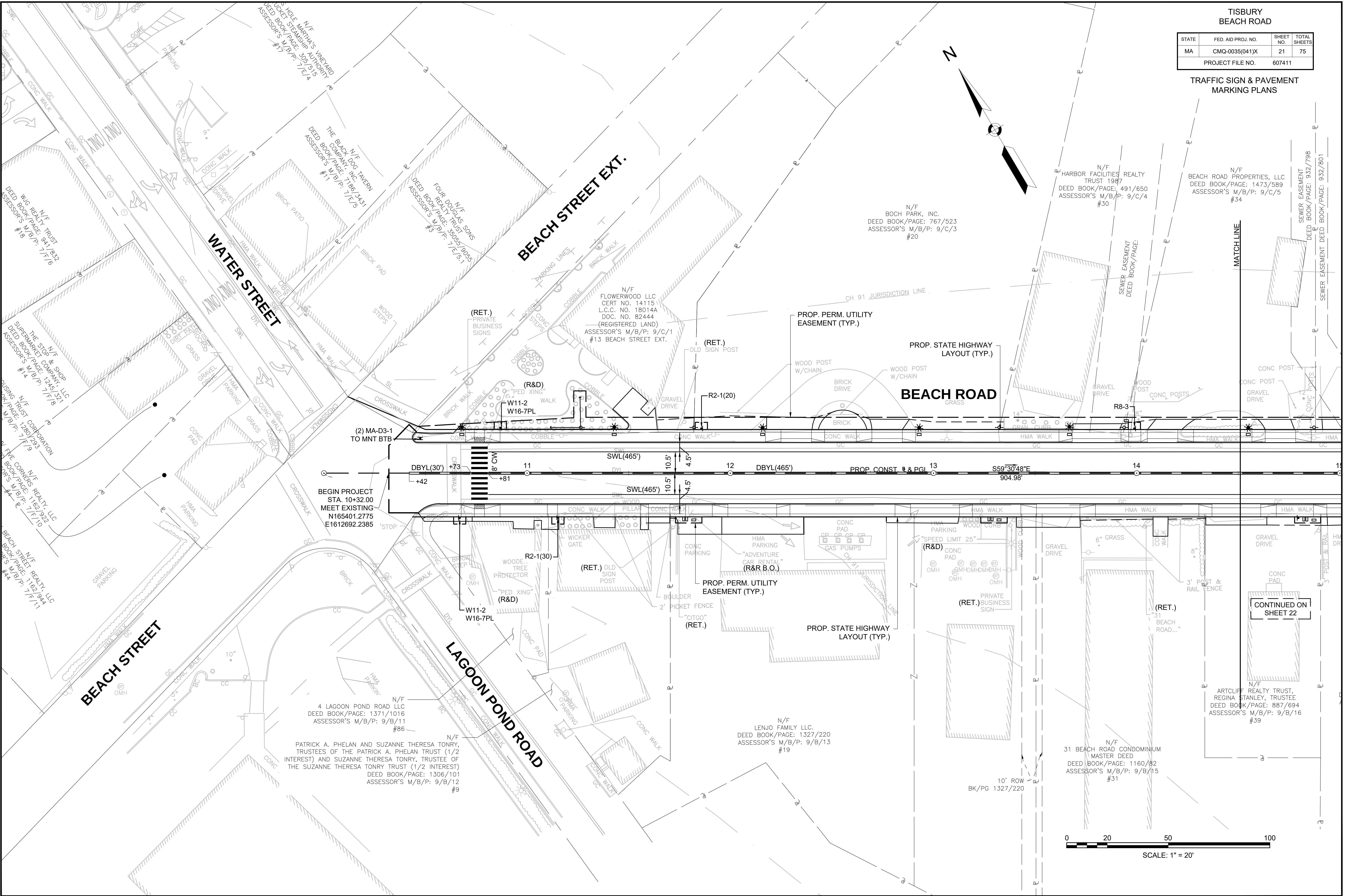
STRUCTURE TABLE					
STR ID	ALIGNMENT	STA. & OFFSET	RIM	INV DATA	COMMENT
CB-303	BEACH ROAD	32+38 12.50 (RT)	RIM = 2.72	303 OUT = -0.37	-
CB-305	BEACH ROAD	32+38 12.50 (LT)	RIM = 2.72	305 OUT = -0.31	-
DMH-302	BEACH ROAD	32+23 5.25 (RT)	RIM = 2.81	303 IN = -0.50 305 IN = -0.50 302 OUT = -0.54	-



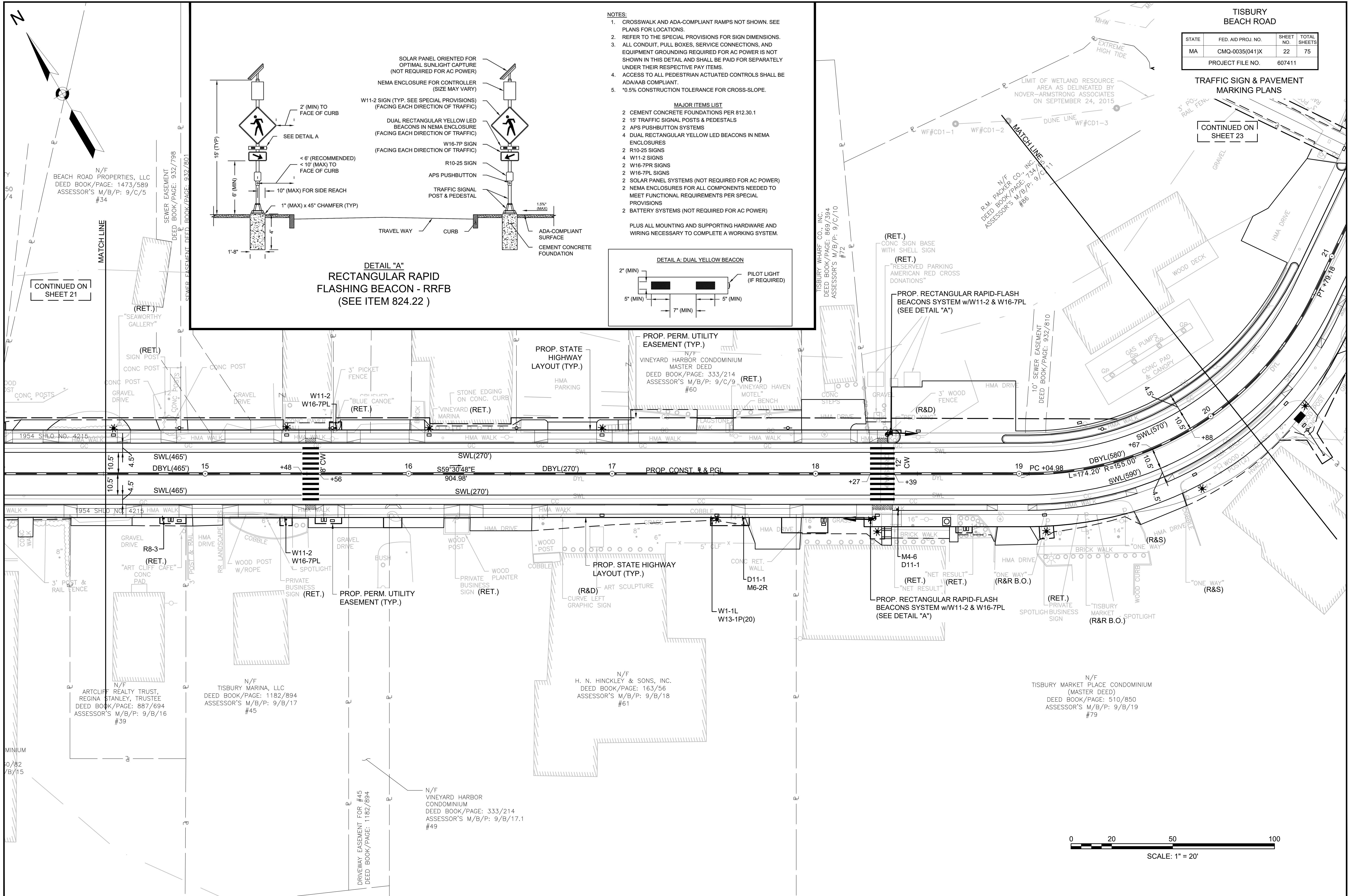
TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	21	75
PROJECT FILE NO.		607411	

TRAFFIC SIGN & PAVEMENT
MARKING PLANS

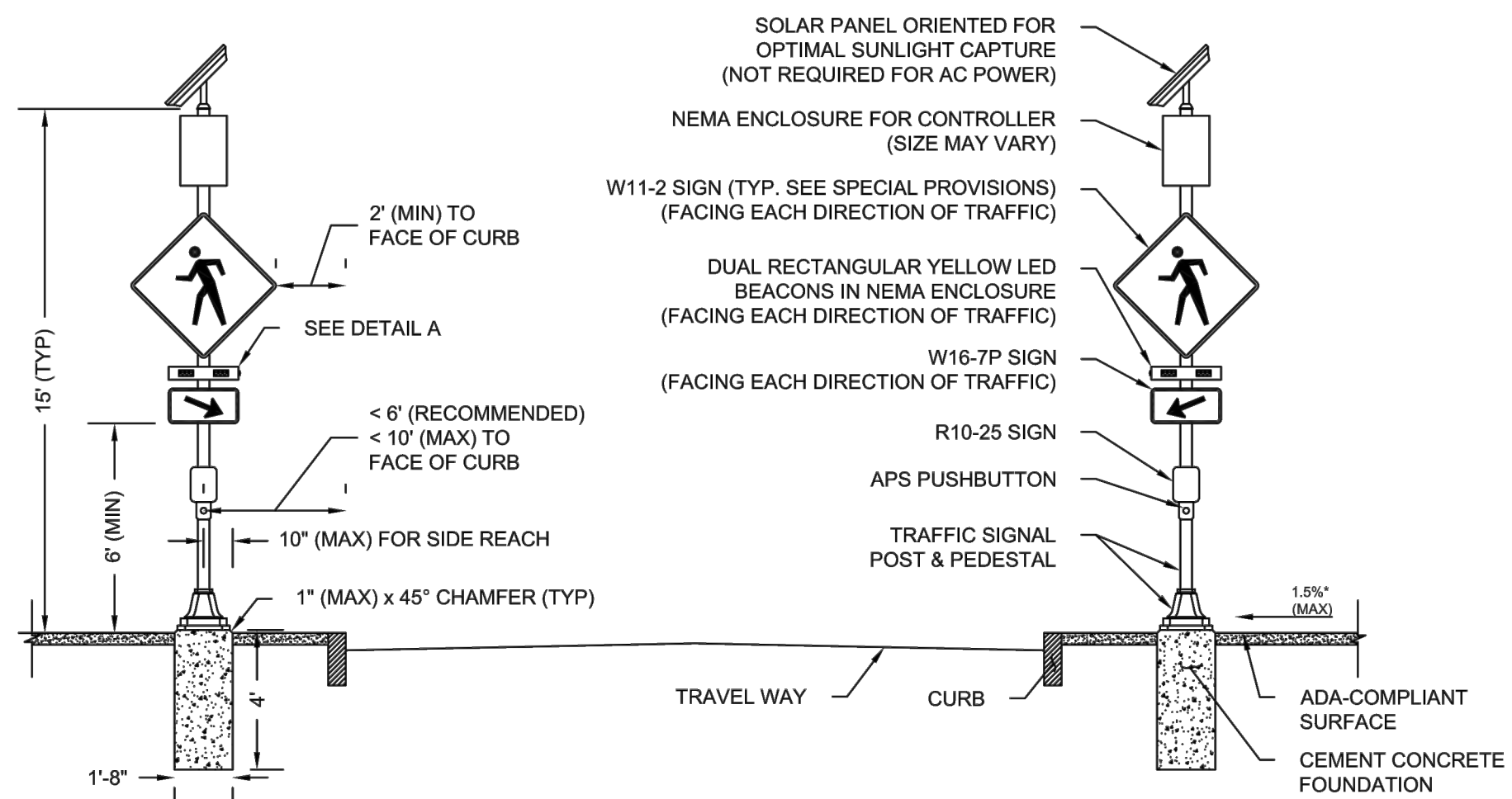
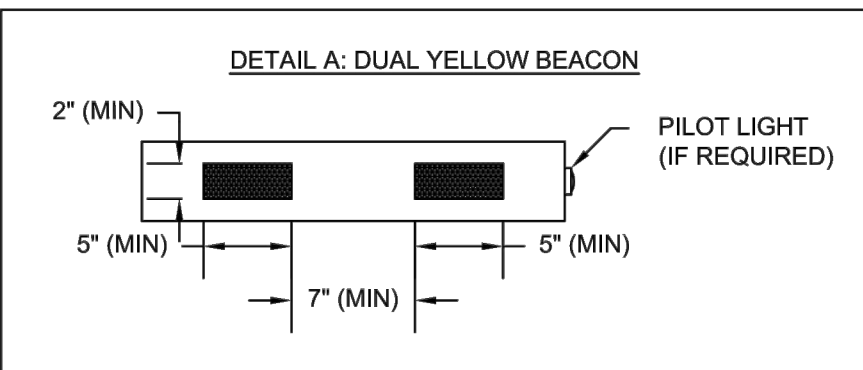


CONTINUED ON
SHEET 22



- NOTES:
1. CROSSWALK AND ADA-COMPLIANT RAMPS NOT SHOWN. SEE PLANS FOR LOCATIONS.
 2. REFER TO THE SPECIAL PROVISIONS FOR SIGN DIMENSIONS.
 3. ALL CONDUIT, PULL BOXES, SERVICE CONNECTIONS, AND EQUIPMENT GROUNDING REQUIRED FOR AC POWER IS NOT SHOWN IN THIS DETAIL AND SHALL BE PAID FOR SEPARATELY UNDER THEIR RESPECTIVE PAY ITEMS.
 4. ACCESS TO ALL PEDESTRIAN ACTUATED CONTROLS SHALL BE ADA/AAB COMPLIANT.
 5. *0.5% CONSTRUCTION TOLERANCE FOR CROSS-SLOPE.

- MAJOR ITEMS LIST
- 2 CEMENT CONCRETE FOUNDATIONS PER 812.30.1
 - 15' TRAFFIC SIGNAL POSTS & PEDESTALS
 - 2 APS PUSHBUTTON SYSTEMS
 - 4 DUAL RECTANGULAR YELLOW LED BEACONS IN NEMA ENCLOSURES
 - 2 R10-25 SIGNS
 - 2 W11-2 SIGNS
 - 2 W16-7PR SIGNS
 - 2 W16-7PL SIGNS
 - 2 SOLAR PANEL SYSTEMS (NOT REQUIRED FOR AC POWER)
 - 2 NEMA ENCLOSURES FOR ALL COMPONENTS NEEDED TO MEET FUNCTIONAL REQUIREMENTS PER SPECIAL PROVISIONS
 - 2 BATTERY SYSTEMS (NOT REQUIRED FOR AC POWER)
- PLUS ALL MOUNTING AND SUPPORTING HARDWARE AND WIRING NECESSARY TO COMPLETE A WORKING SYSTEM.



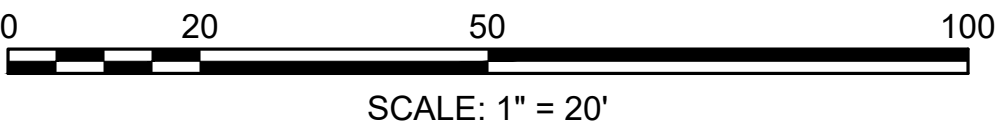
DETAIL "A"
RECTANGULAR RAPID
FLASHING BEACON - RRFB
(SEE ITEM 824.22)

TISBURY BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	22	75
PROJECT FILE NO.		607411	

TRAFFIC SIGN & PAVEMENT MARKING PLANS

CONTINUED ON
SHEET 23



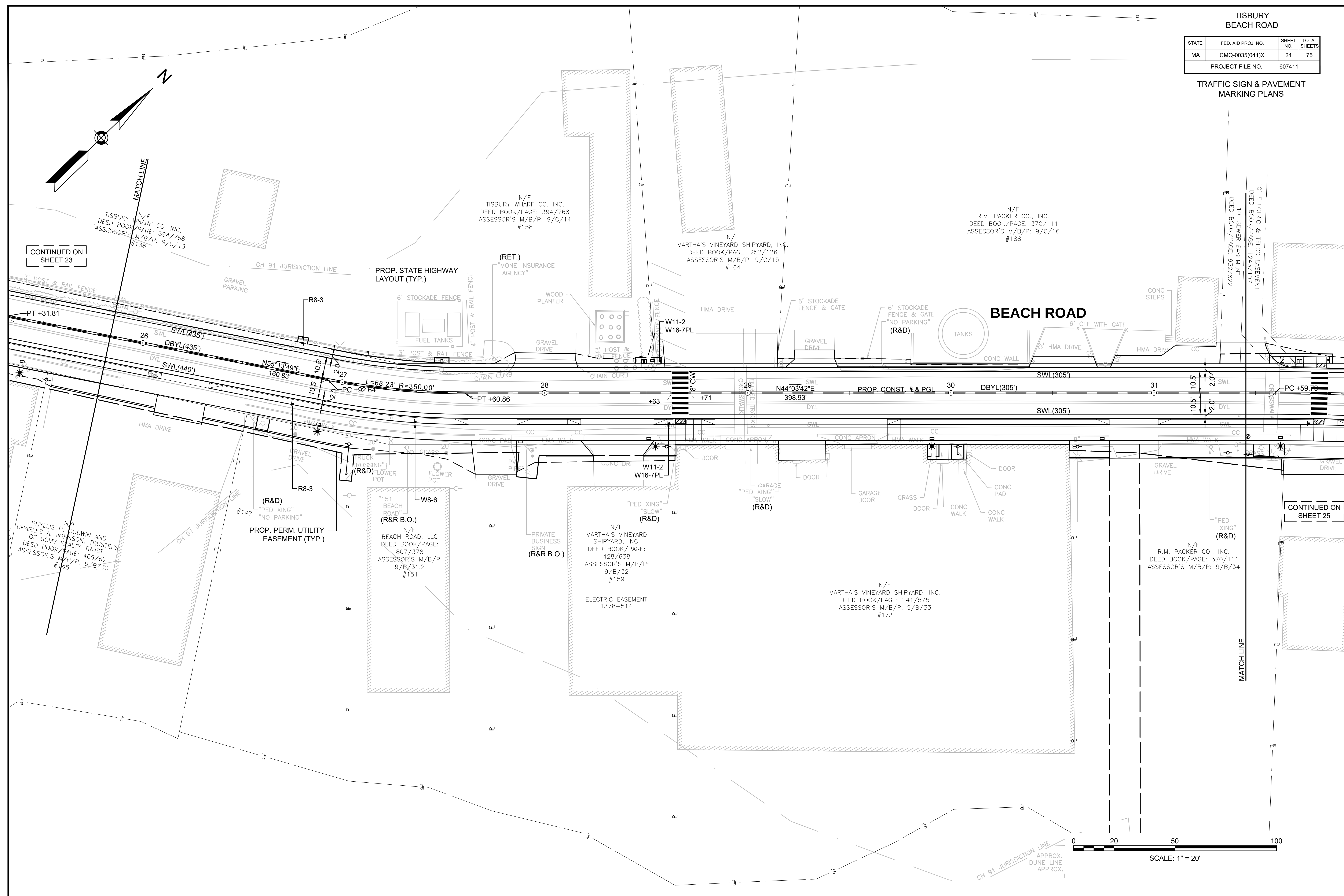
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	23	75
PROJECT FILE NO.		607411	

BEACH ROAD

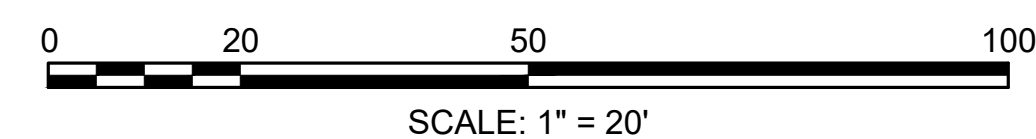
CONTINUED ON
SHEET 24

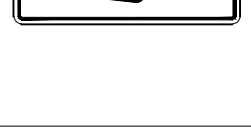


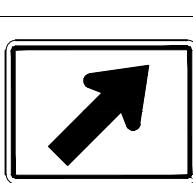
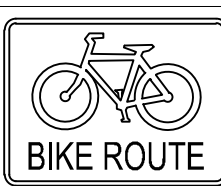
BEACH ROAD



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	25	75
PROJECT FILE NO.		607411	



IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH (INCHES)	HEIGHT (INCHES)		LETTER HEIGHT	VERTICAL SPACING		BACK- GROUND	LEGEND	BORDER			
R2-1(20)	24	30		MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK	BLACK	P5 (1 REQ'D)	5.00	5.00
R2-1(30)	24	30		MUTCD STANDARD	MUTCD STANDARD	2	WHITE	BLACK	BLACK	P5 (2 REQ'D)	5.00	10.00
R2-1(40)	24	30		MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK	BLACK	P5 (1 REQ'D)	5.00	5.00
R8-3	24	24		MUTCD STANDARD	MUTCD STANDARD	9	WHITE	BLACK & RED SYMBOL	BLACK	P5 (8 REQ'D)	4.00	36.00
R10-25	9	12		MUTCD STANDARD	MUTCD STANDARD	2	WHITE	BLACK	BLACK	PAY UNDER ITEM 824.22	PAY UNDER ITEM 824.22	
W1-1L	30	30		MUTCD STANDARD	MUTCD STANDARD	1	YELLOW	BLACK	BLACK	P5 (1 REQ'D)	6.25	6.25
W1-1R	30	30		MUTCD STANDARD	MUTCD STANDARD	1	YELLOW	BLACK	BLACK	P5 (1 REQ'D)	6.25	6.25
W8-6	24	24		MUTCD STANDARD	MUTCD STANDARD	2	YELLOW	BLACK	BLACK	P5 (2 REQ'D)	4.00	8.00
W11-2	30	30		MUTCD STANDARD	MUTCD STANDARD	17	YELLOW	BLACK	BLACK	P5 (13 REQ'D)	6.25	81.25
										4 PAY UNDER ITEM 824.22	PAY UNDER ITEM 824.22	
W11-15	30	30		MUTCD STANDARD	MUTCD STANDARD	1	YELLOW	BLACK	BLACK	P5 (1 REQ'D)	6.25	6.25
W13-1P(20)	18	18		MUTCD STANDARD	MUTCD STANDARD	2	YELLOW	BLACK	BLACK	1 MNT w/W1-1L 1 MNT w/W1-1R	2.25	4.50
W16-7PL	24	12		MUTCD STANDARD	MUTCD STANDARD	14	YELLOW	BLACK	BLACK	12 MNT w/W11-2	2.00	24.00
										2 MNT W/ W11-2 (PAY UNDER ITEM 824.22)	PAY UNDER ITEM 824.22	
W16-7PR	24	12		MUTCD STANDARD	MUTCD STANDARD	2	YELLOW	BLACK	BLACK	2 MNT W/ W11-2 (PAY UNDER ITEM 824.22)	PAY UNDER ITEM 824.22	
W16-9P	24	12		MUTCD STANDARD	MUTCD STANDARD	2	YELLOW	BLACK	BLACK	1 MNT w/W11-2 1 MNT w/W11-15	2.00	4.00

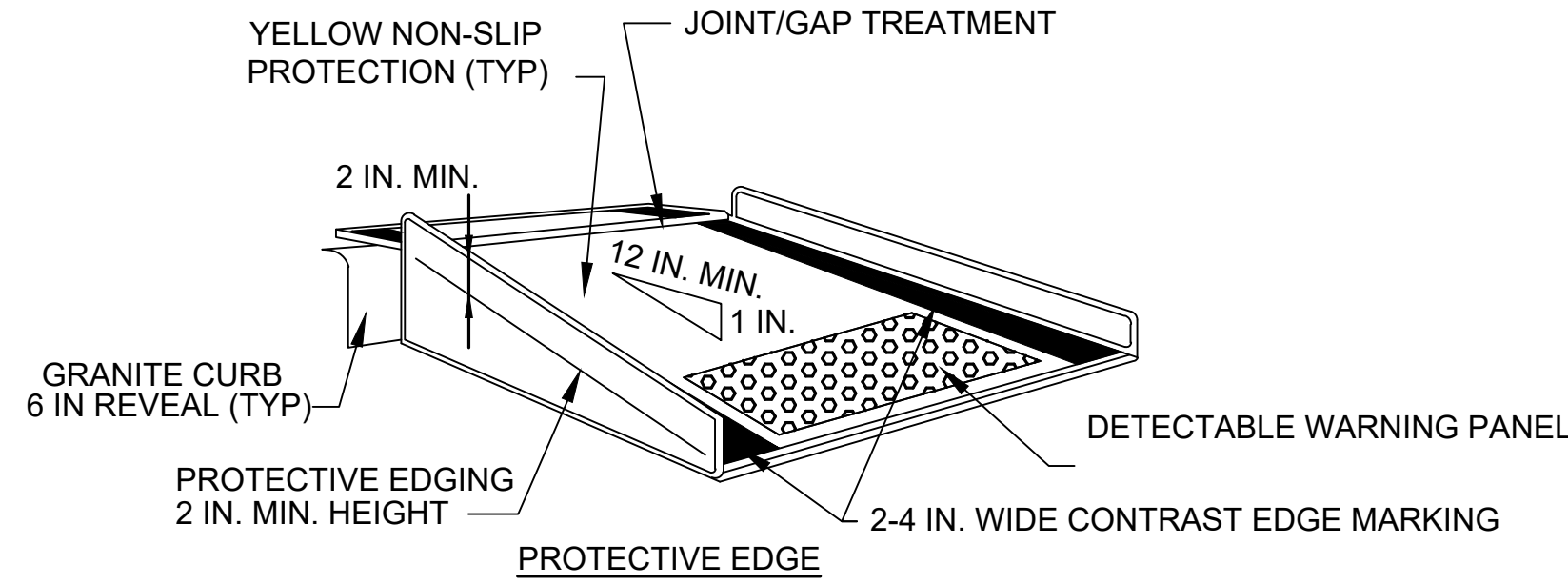
IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH (INCHES)	HEIGHT (INCHES)		LETTER HEIGHT	VERTICAL SPACING		BACK- GROUND	LEGEND	BORDER			
M4-6	24	6		MUTCD STANDARD	MUTCD STANDARD	1	GREEN	WHITE	WHITE	P5 (1 REQ'D)	1.00	1.00
M6-2R	12	9		MUTCD STANDARD	MUTCD STANDARD	2	GREEN	WHITE	WHITE	MNT w/D11-1	0.75	1.50
MA-D3-1 (POS)	48	12		6"D/4"D (INCL. TOWN SEAL)	3" 3"	2	GREEN H/I	SILVER/ WHITE H/I	WHITE H/I	P5 (1 REQ'D) MNT BTB	PAY UNDER ITEM 874.	PAY UNDER ITEM 874.
D11-1	24	18		MUTCD STANDARD	MUTCD STANDARD	3	GREEN	WHITE	WHITE	P5 (2 REQ'D); 1 MNT w/M4-6	3.00	9.00

- NOTES:
- ALL WARNING, REGULATORY AND ROUTE MARKERS SHALL BE FABRICATED WITH HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING (SEE SECTION M9.30.0) TYPE III OR IV.
 - ALL SIGNS NOTED AS "(R&R)" SHALL BE MOUNTED ON NEW P5 POSTS OR AS OTHERWISE INDICATED.
 - ALL P5 POSTS SHALL BE TELESCOPIC SQUARE TYPE POSTS.
 - QUANTITIES OF SIGNS AND POSTS SHOWN ON THIS SHEET MAY DIFFER FROM THE TRAFFIC SIGN & PAVEMENT MARKING PLANS. WHERE DIFFERENCES OCCUR, THE TRAFFIC SIGN & PAVEMENT MARKING PLANS SHALL PREVAIL.

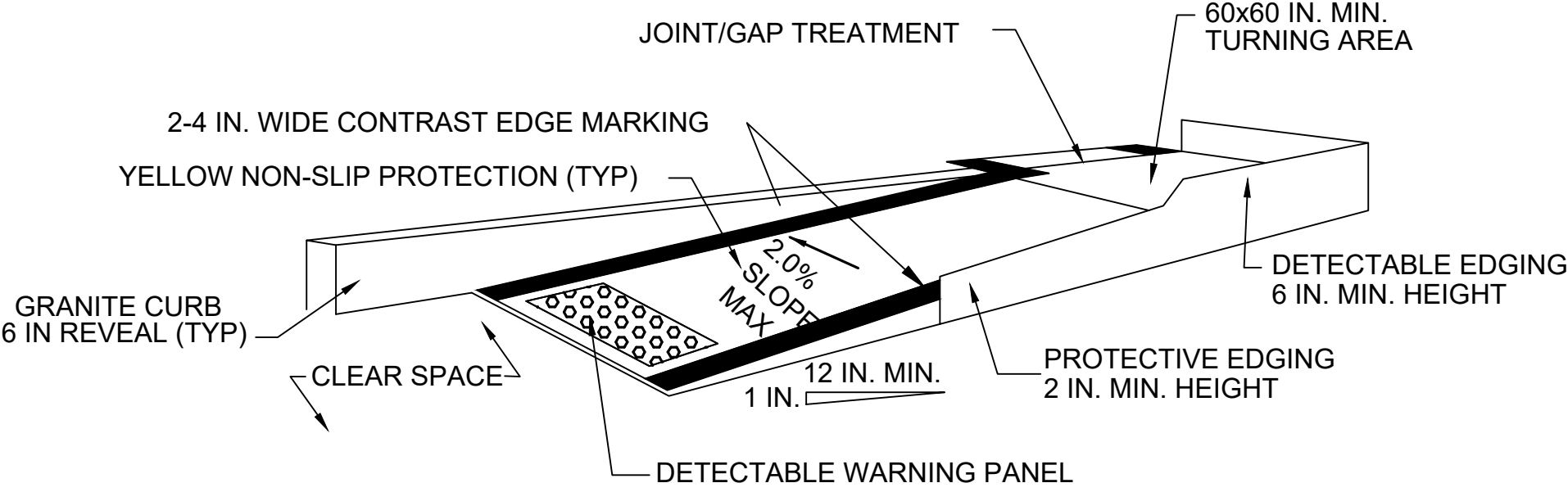
TRAFFIC CONTROL NOTES

- GENERAL**
- ALL TEMPORARY TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), MASSDOT'S "STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TRAFFIC MANAGEMENT PLANS", THE STANDARD SPECIFICATIONS, AND THE FOLLOWING NOTES.
 - THE TEMPORARY TRAFFIC CONTROL PLANS CONTAINED HEREIN ARE GIVEN AS A GUIDE FOR TYPICAL WORK ZONE TRAFFIC CONTROL APPLICATIONS FOR THE TYPES OF WORK ANTICIPATED FOR THIS PROJECT. THEY ARE NOT INTENDED TO COVER ALL POSSIBLE CONSTRUCTION OPERATIONS WHICH THE CONTRACTOR MAY CHOOSE TO EMPLOY. WORK ZONE TRAFFIC CONTROL FOR OTHER CONSTRUCTION OPERATIONS OR OTHER TRAFFIC SITUATIONS IF APPLICABLE SHALL BE IN ACCORDANCE WITH THE REFERENCES LISTED IN NOTE NO. 1 AND AS APPROVED OR DIRECTED BY THE ENGINEER.
 - LANE RESTRICTIONS MAY NOT REMAIN OVERNIGHT OR DURING NON-WORKING HOURS UNLESS UNDER TEMPORARY SIGNAL CONTROL. AFTER EACH WORKING DAY, TRAFFIC CONTROL DEVICES THAT ARE NOT REQUIRED SHALL BE MOVED OFF THE ROADWAY OR FULL DEPTH CONSTRUCTION AREA AND PLACED SO AS NOT TO IMPEDE PEDESTRIAN AREAS, ABUTTER ACCESS OR CAUSE CONFUSION TO MOTORISTS. IN CERTAIN CIRCUMSTANCES, AND ONLY WITH THE APPROVAL OF MASSDOT AND THE ENGINEER, CAN LANE RESTRICTIONS REMAIN OVERNIGHT.
 - CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
 - PLACE ALL CONSTRUCTION SIGNING, TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR EACH PHASE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - ONE (1) THRU TRAVEL LANE HAVING A MINIMUM WIDTH OF 11'-0" SHALL BE PROVIDED FOR BOTH DIRECTIONS (LANE MAY BE SHARED AND DIRECTION OF TRAVEL TO ALTERNATE UNDER POLICE OFFICER CONTROL) DURING ALL PHASES OF CONSTRUCTION AS SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MINIMUM LANE WIDTH IS MEASURED FROM THE EDGE OF DRUMS OR TEMPORARY BARRIER.
 - WHEN WORK INFRINGES UPON THE TRAVELED WAY, WORK SHALL BE RESTRICTED TO OFF-PEAK HOURS ONLY (NORMALLY 9:00am TO 4:00pm, MONDAY TO FRIDAY). THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF ROAD CLOSURE.
 - TAPER LENGTH FORMULAE FOR CHANNELIZATION DEVICES:
ENGLISH UNITS:
L = WxS FOR SPEED EQUAL TO OR GREATER THAN 45 M.P.H.
L = WS²/60 FOR SPEED EQUAL TO OR LESS THAN 40 M.P.H.
WHERE: L = MIN. LENGTH OF TAPER, S = POSTED SPEED, W = OFFSET WIDTH.
 - ADVISORY SPEED LIMIT, IF USED, SHALL BE SET IN THE FIELD BY THE ENGINEER. W13-1 PLATES SHALL BE USED WHERE APPROPRIATE.
 - DISTANCES SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS ARE A GUIDE ONLY, AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- GRADE DIFFERENCES**
- WHERE THERE IS A LONGITUDINAL DIFFERENCE IN ELEVATION BETWEEN EXISTING PAVEMENT AND ADJACENT TRAVEL SURFACE (UNDER REPAIR OR RECONSTRUCTION), THE CONTRACTOR SHALL PATCH A TEMPORARY HMA WEDGE WITH A 12:1 (OR FLATTER) SLOPE FOR SMOOTH TRANSITION. SEE DETAIL, SHEET 28.
 - CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF REFLECTORIZED DRUMS.
 - CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 4" DURING NON-WORKING HOURS SHALL BE PROTECTED BY BACKFILLING WITH A WEDGE OF EARTHWORK TO BE COMPACTED AT 4:1 SLOPE AND WILL ALSO REQUIRE DELINEATION BY USE OF DRUMS.
 - A MINIMUM SLOPE OF 4:1 MUST BE MAINTAINED AFTER WORKING HOURS DURING SUBBASE AND BASE COURSE INSTALLATION ALONG EDGE OF THE TRAVELWAY (SEE DETAIL, SHEET 28.) A MAXIMUM SLOPE OF 8:1 MUST BE MAINTAINED ON ALL ABUTTER ACCESS DRIVES AND A MAXIMUM SLOPE OF 12:1 MUST BE MAINTAINED ON ALL SIDEWALKS.
- CONSTRUCTION SIGNING**
- THE FIRST CONSTRUCTION SIGN IN A SERIES ON EACH APPROACH TO THE PROJECT SHALL BE FLUORESCENT ORANGE, HIGH PERFORMANCE (OR HIGH INTENSITY) SHEETING.
 - ALL CONSTRUCTION SIGNS SHALL BE BLACK LEGEND ON A REFLECTORIZED ORANGE BACKGROUND UNLESS OTHERWISE NOTED.
 - CONSTRUCTION SIGNING SHOWN ON THE ADVANCE SIGNING PLAN SHALL REMAIN IN PLACE FOR THE ENTIRE PROJECT DURATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - STANDARD ORANGE OR FLUORESCENT RED-ORANGE FLAGS (16"x16" MIN.) MAY BE ATTACHED TWO (2) EACH ON ALL ADVANCE WARNING SIGNS. FLAGS SHALL NOT INTERFERE WITH A CLEAR VIEW OF THE SIGN FACE.
 - EXISTING GUIDE SIGNS SHALL BE TEMPORARILY RESET AS DIRECTED BY THE ENGINEER.
 - ALL SIGNS, INCLUDING EXISTING, THAT ARE NOT REPRESENTATIVE OF ACTUAL WORK CONDITIONS SHALL BE EITHER COVERED OR REMOVED WHEN NOT APPLICABLE.
 - IF USED, ALL W20-4 AND W20-5 SIGNS SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY UNLESS LANE RESTRICTIONS ARE PERMITTED TO REMAIN OVERNIGHT IN ACCORDANCE WITH NOTE NO. 3 ABOVE.
 - USE MA-W20-7b AND W20-7 SIGNS ONLY WHILE POLICE OR FLAGGERS ARE DIRECTING TRAFFIC. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY OR WHEN NOT IN USE.
 - ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD NCHRP 350 OR MASH CRASH TESTED SUPPORT. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY OR WHEN NOT IN USE.
- PAVEMENT MARKINGS**
- PAVEMENT MARKINGS WHICH ARE NO LONGER APPLICABLE SHALL BE REMOVED. APPLY TEMPORARY MARKINGS WHERE SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLANS.
 - ON PROJECTS WHERE PAVEMENT OVERLAY IS NOT DESIGNATED, EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH TEMPORARY TRAFFIC CONTROLS SHOULD BE COVERED TEMPORARILY WITH BLACKOUT TAPE, AS DIRECTED BY THE ENGINEER. FOR THE FULL DURATION OF THE PHASE IN PROGRESS, TEMPORARY PAINTED OR REMOVABLE TAPE MARKINGS SHALL BE USED AS NECESSARY FOR ALL PHASES OF CONSTRUCTION.

- CHANNELIZATION**
- THE MAXIMUM SPACING BETWEEN CHANNELIZATION DEVICES (DRUMS OR CONES) SHALL BE APPROXIMATELY EQUAL IN FEET TO THE POSTED SPEED LIMIT. THE MINIMUM SPACING SHALL BE 20' O.C.
 - REFLECTORIZED CONES SHALL BE AT LEAST 36" HIGH.
 - FLASHING OR STEADY BURN WARNING LIGHTS SHALL ALSO BE USED ON BARRICADES, JERSEY BARRIERS OR WHERE DIRECTED BY THE ENGINEER. IF USED THEY SHALL MEET THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES OR MANUAL FOR ASSESSMENT OF SAFETY HARDWARE (MASH).
 - PLASTIC DRUMS WITH SOME FORM OF LIGHTING DEVICE MOUNTED ON THEM MUST PASS THE CRITERIA SET FORTH OF NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" OR MANUAL FOR ASSESSMENT OF SAFETY HARDWARE (MASH.) IF THEY DO NOT MEET THESE CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.
 - ALL TEMPORARY TRAFFIC CONTROL EQUIPMENT MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR THE MANUAL FOR THE ASSESSMENT OF SAFETY HARDWARE (MASH) IF THEY DO NOT MEET THESE CRITERIA THEY MUST BE REMOVED FROM THE PROJECT.



TEMPORARY CURB RAMP-PERPENDICULAR TO CURB
NOT TO SCALE



TEMPORARY CURB RAMP-PARALLEL TO CURB
NOT TO SCALE

FIGURE PED-1 PEDESTRIAN DETAILS

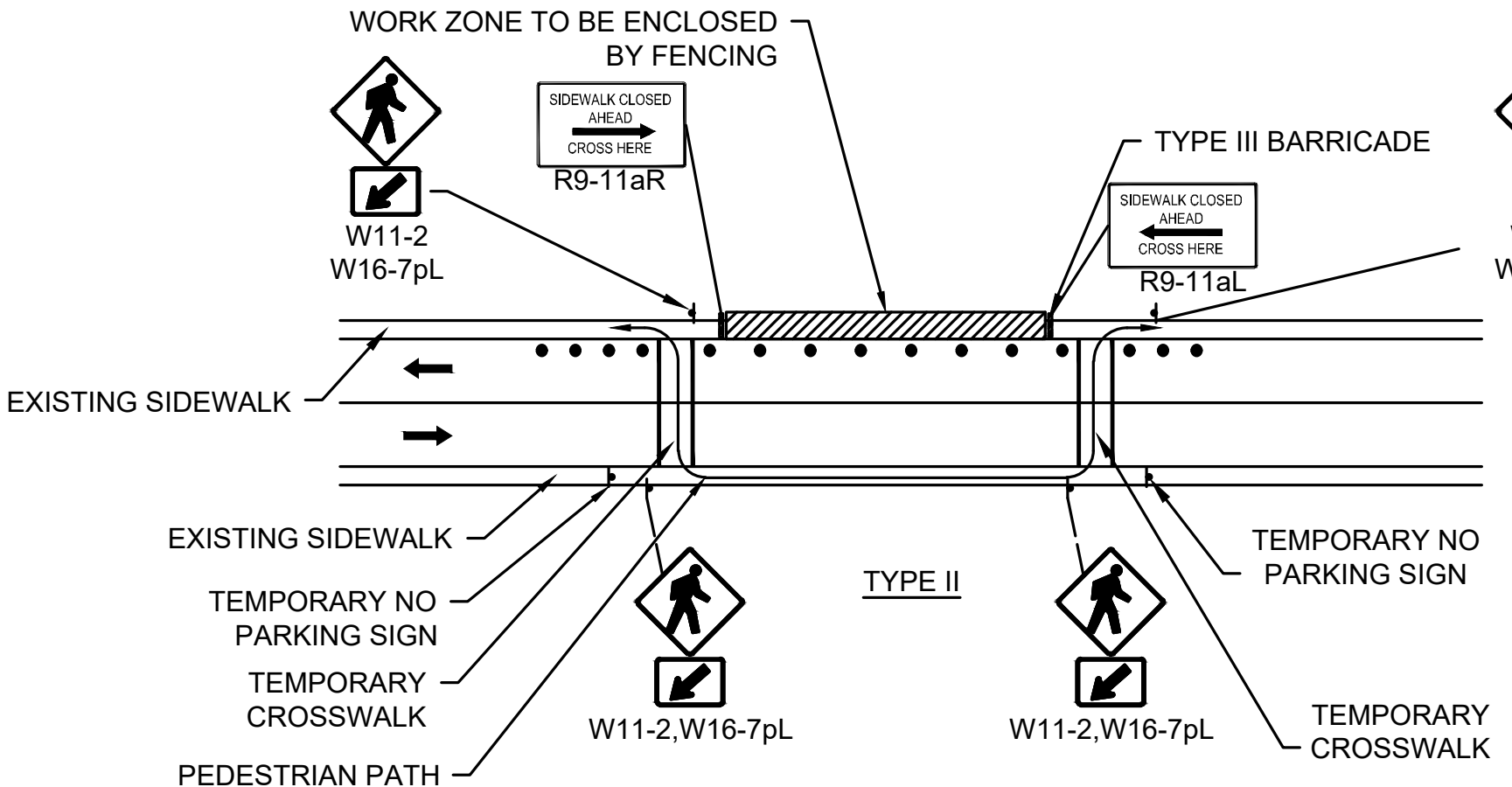
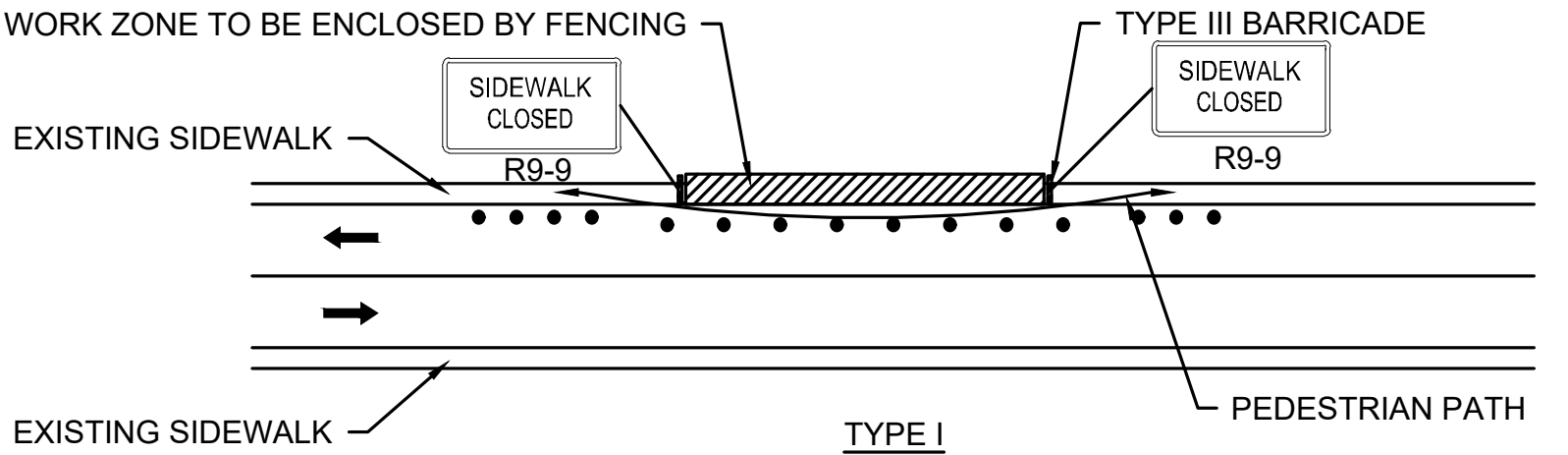
- NOTES:
- CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
 - PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
 - DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
 - THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE EXISTING SIDEWALK.
 - CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
 - CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
 - WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
 - LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
 - CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.
 - IF A TEMPORARY PEDESTRIAN RAMP LEADS TO A CROSSWALK, THEN A DETECTABLE WARNING PAD MUST BE ADHERED TO THE BASE OF THE RAMP. IF IT LEADS TO A PROTECTED PEDESTRIAN BYPASS THAT DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN A PAD SHALL NOT BE INSTALLED ON THE RAMP.

TRAFFIC MANAGEMENT LEGEND

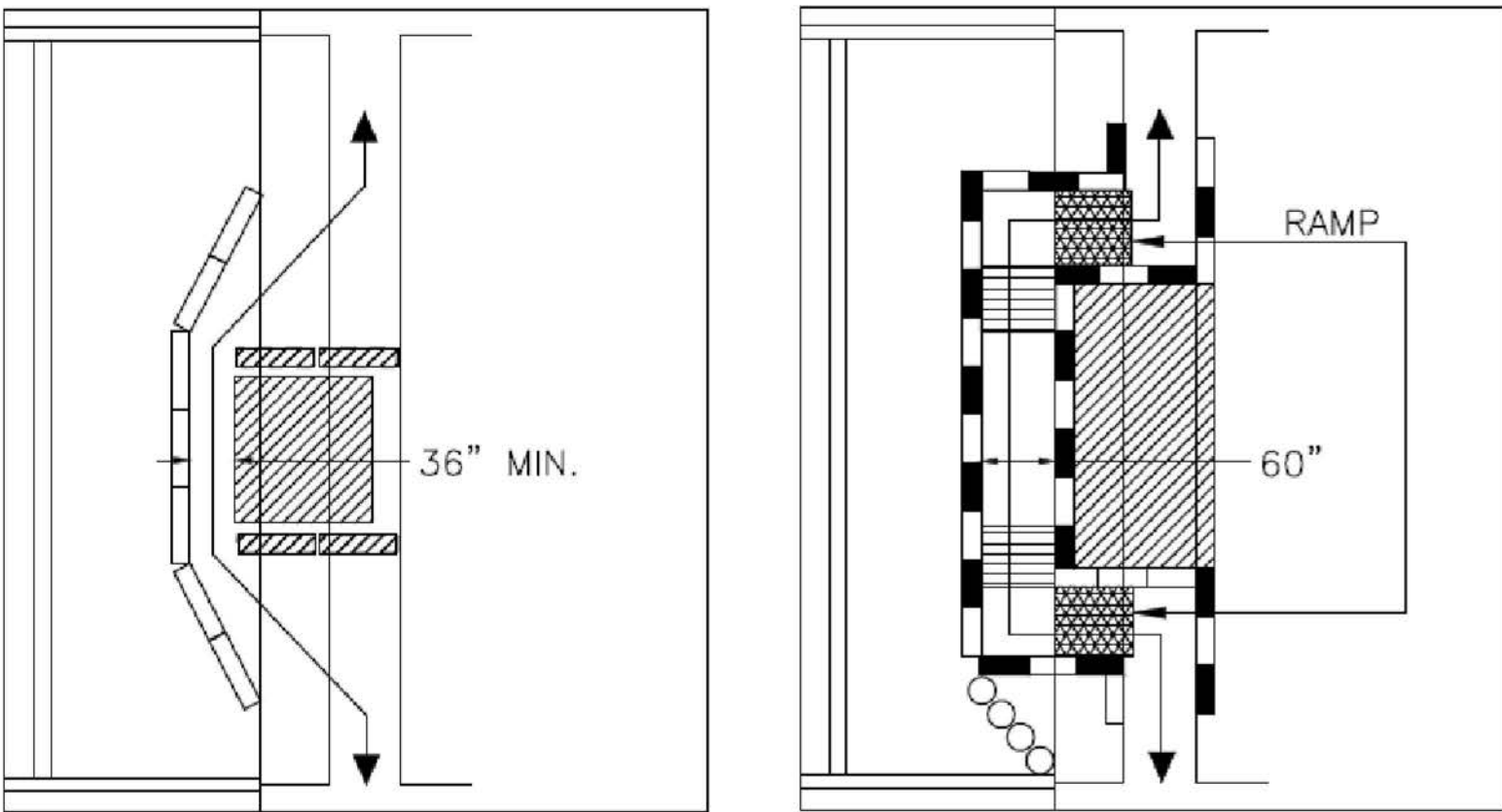
- WORK AREA
- DIRECTION OF TRAVEL
- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- REFLECTORIZED PLASTIC DRUM WITH TYPE 'A' FLASHING WARNING LIGHT
- POLICE OFFICER OR FLAGGER CONTROL
- PORTABLE TYPE III BARRICADE (4' WIDE, MIN.)
- FLASHING ARROW BOARD (30"x 60" STD. SIZE WITH 13 LAMPS, MIN.)
- TEMPORARY PRECAST CONCRETE BARRIER WITH TEMPORARY FENCE & WHITE REFLECTORS
- TEMPORARY IMPACT ATTENUATOR
- PAVEMENT MARKINGS TO COVER OR REMOVE (SEE NOTES 23 & 24)
- PORTABLE CHANGEABLE MESSAGE SIGN
- MOVABLE IMPACT ATTENUATOR

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	27	75
PROJECT FILE NO.		607411	

TEMPORARY TRAFFIC CONTROL PLANS



PEDESTRIAN BYPASS
NOT TO SCALE



- 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 protective requirements of a TTC situation have priority in determining the need for temporary traffic barriers and their use in this situation should be based on engineering judgment.
- 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.

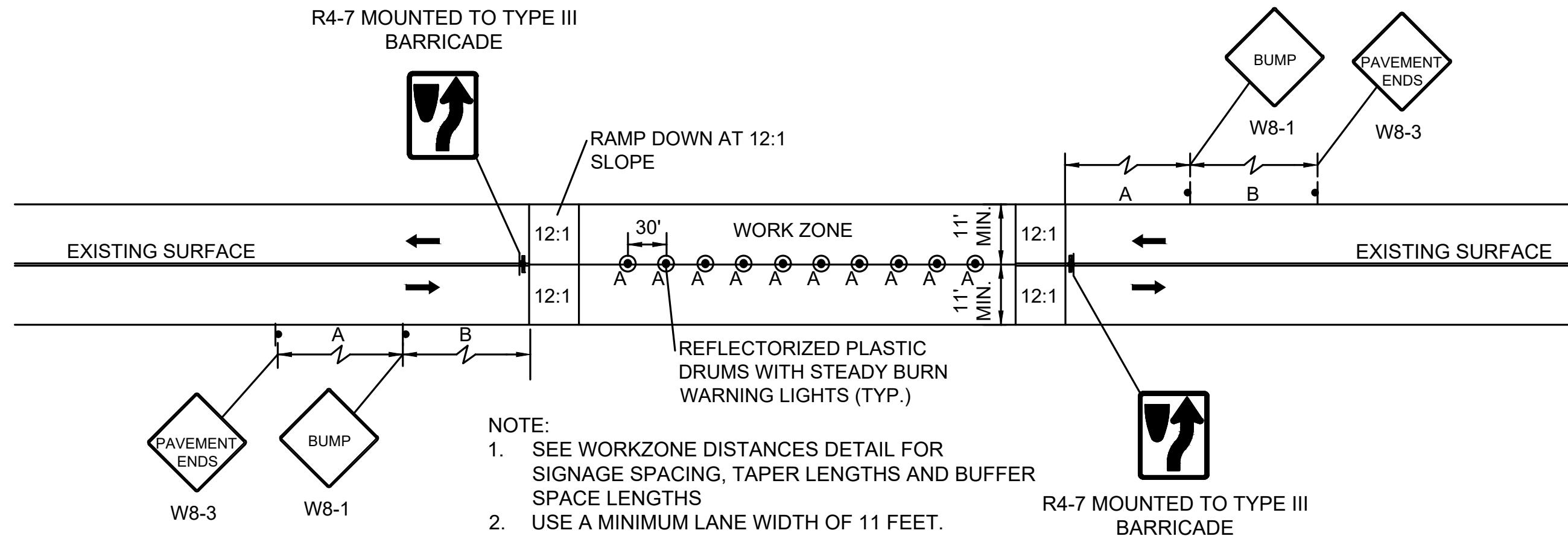
AUDIBLE DEVICES

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.

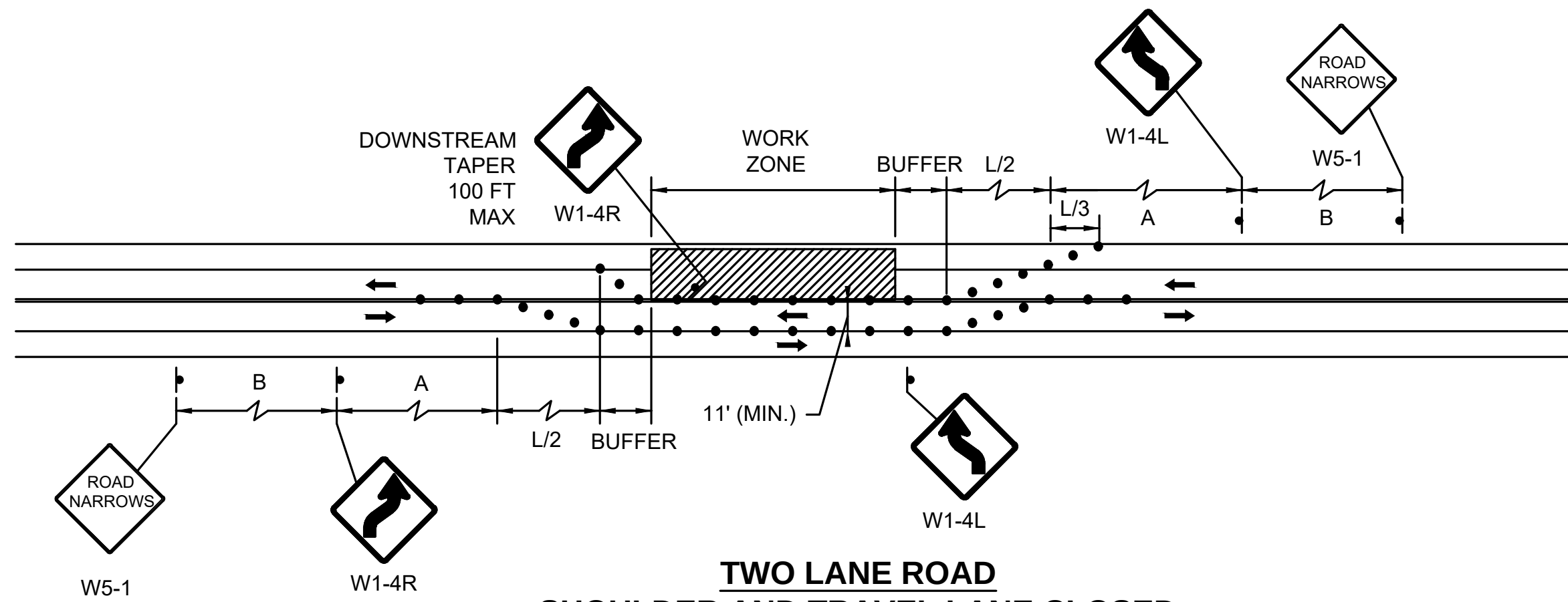
FIGURE PED-3
PEDESTRIAN DETAILS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	28	75
PROJECT FILE NO.		607411	

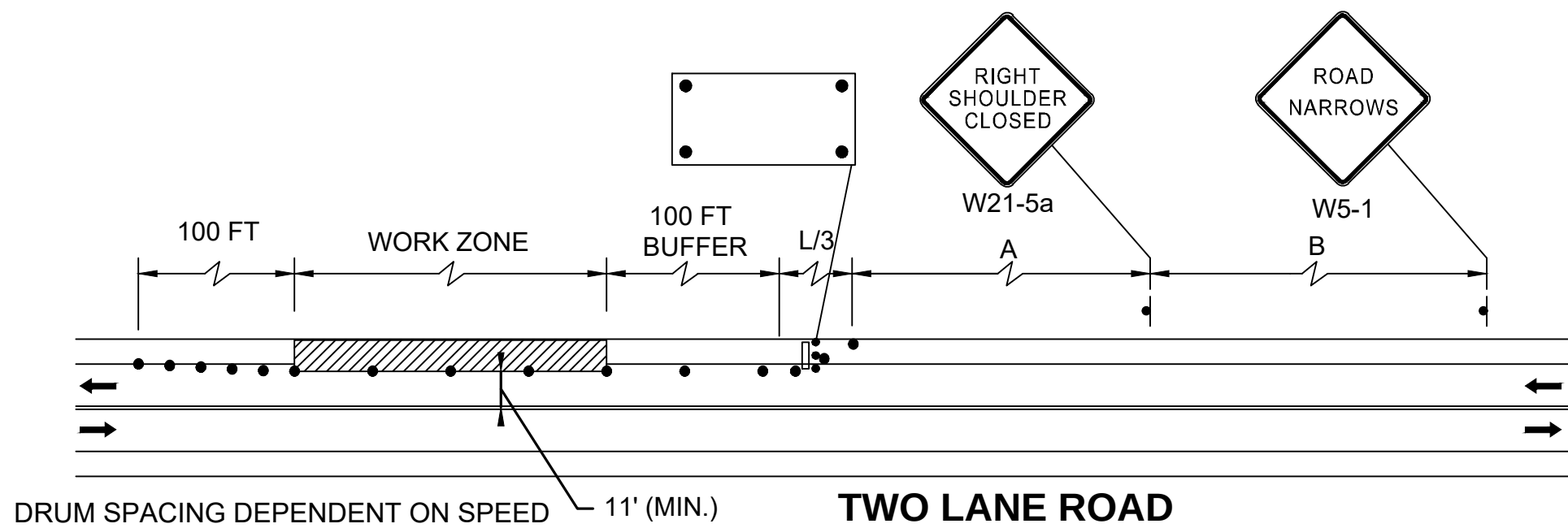
TEMPORARY TRAFFIC
CONTROL PLANS



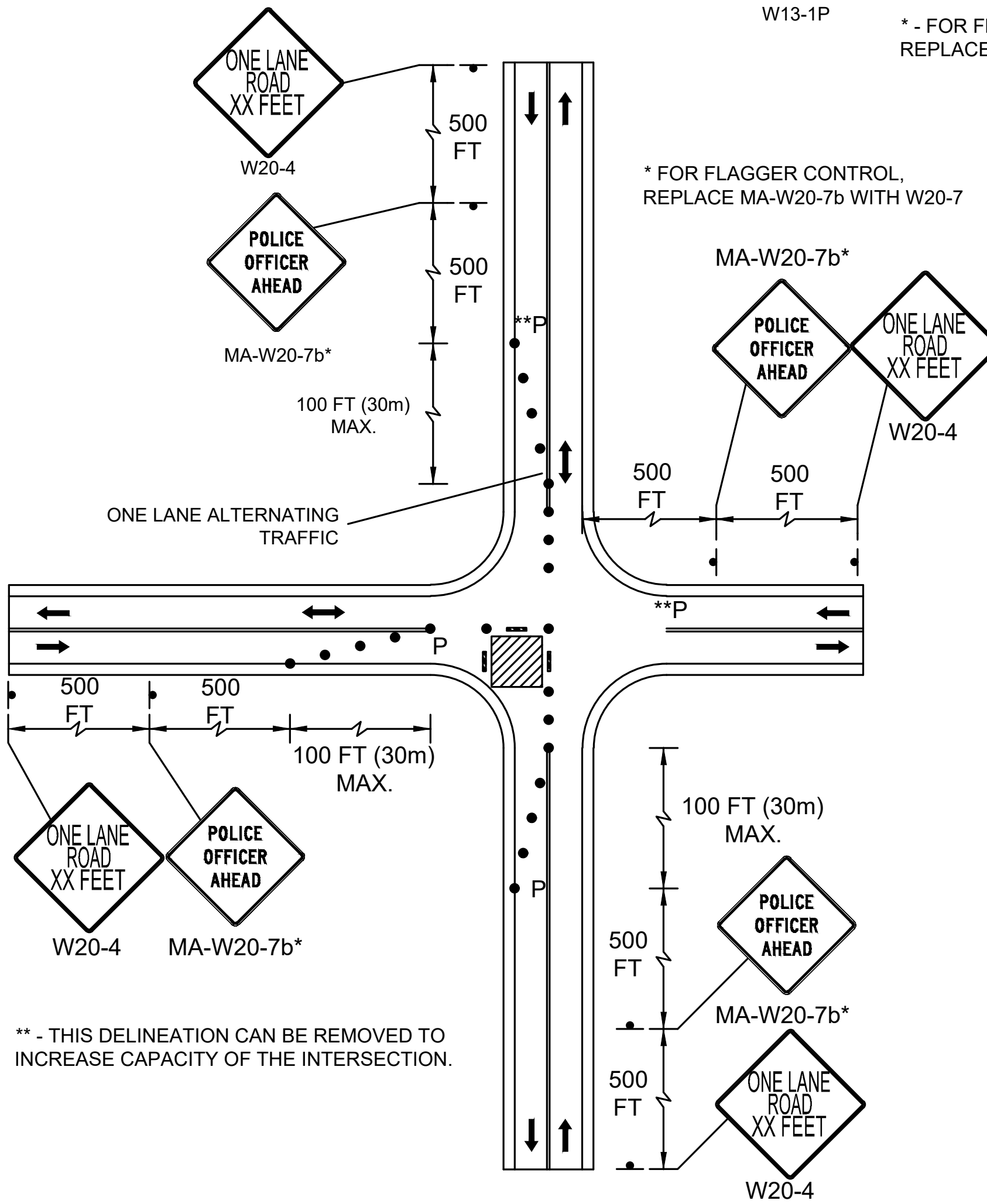
FULL DEPTH CONSTRUCTION
CONSTRUCTION NOT IN PROGRESS
NOT TO SCALE



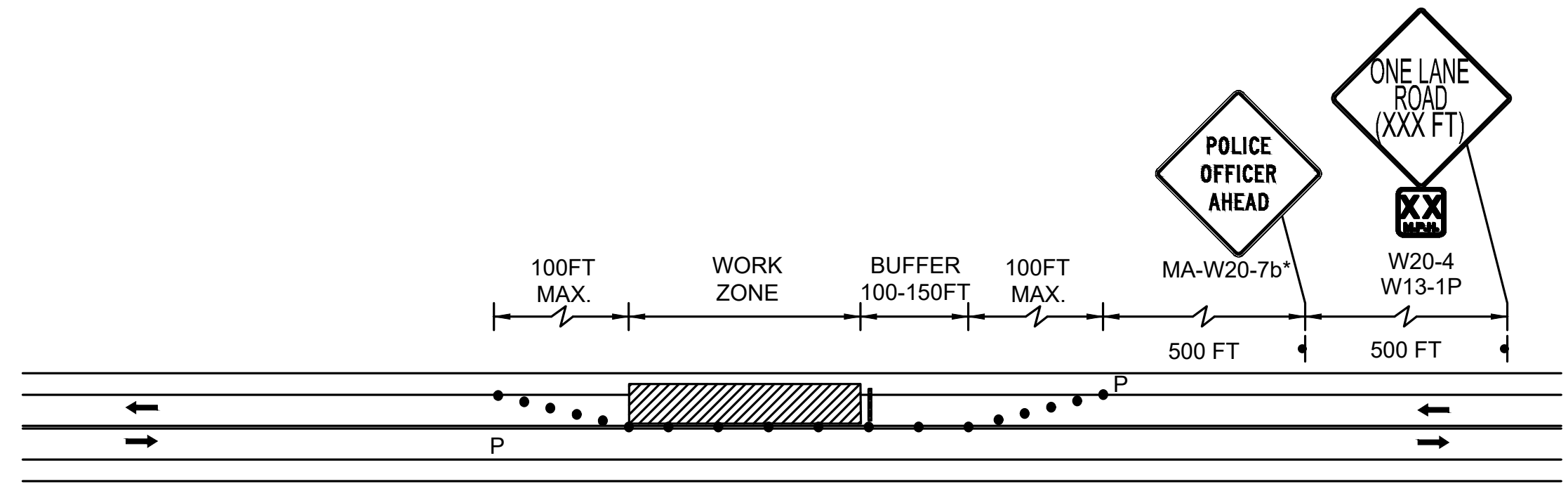
TWO LANE ROAD
SHOULDER AND TRAVEL LANE CLOSED
NOT TO SCALE



TWO LANE ROAD
SHOULDER CLOSED
NOT TO SCALE



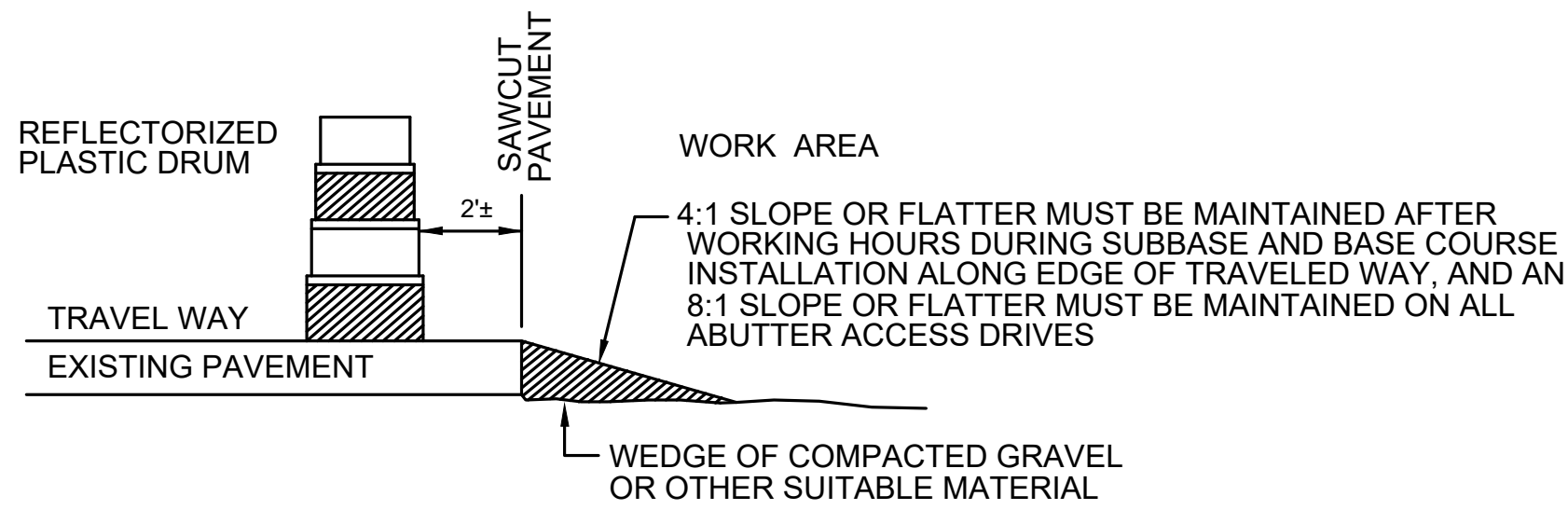
SINGLE LANE APPROACH
ONE QUADRANT CLOSURE
NOT TO SCALE



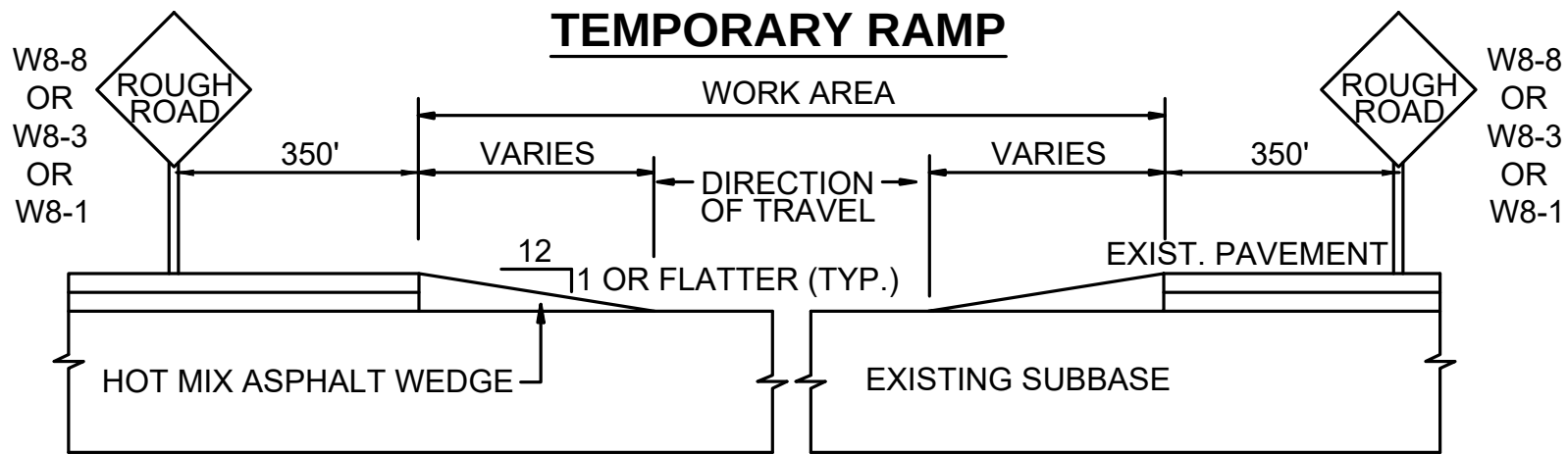
TWO LANE ROAD
ONE LANE ALTERNATING TRAFFIC
NOT TO SCALE

ALL TEMPORARY TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO MASSDOT'S "2014 STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS" INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING DETAILS:

- FIGURES GEN-1 THRU GEN-6
- FIGURES PED-1 THRU PED-7
- FIGURE INT-2
- FIGURES TLR-1 THRU TLR-3

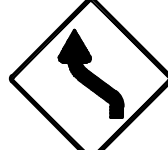
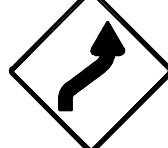


AFTER WORK HOURS TREATMENT
FOR LATERAL SLOPING



TEMPORARY RAMP

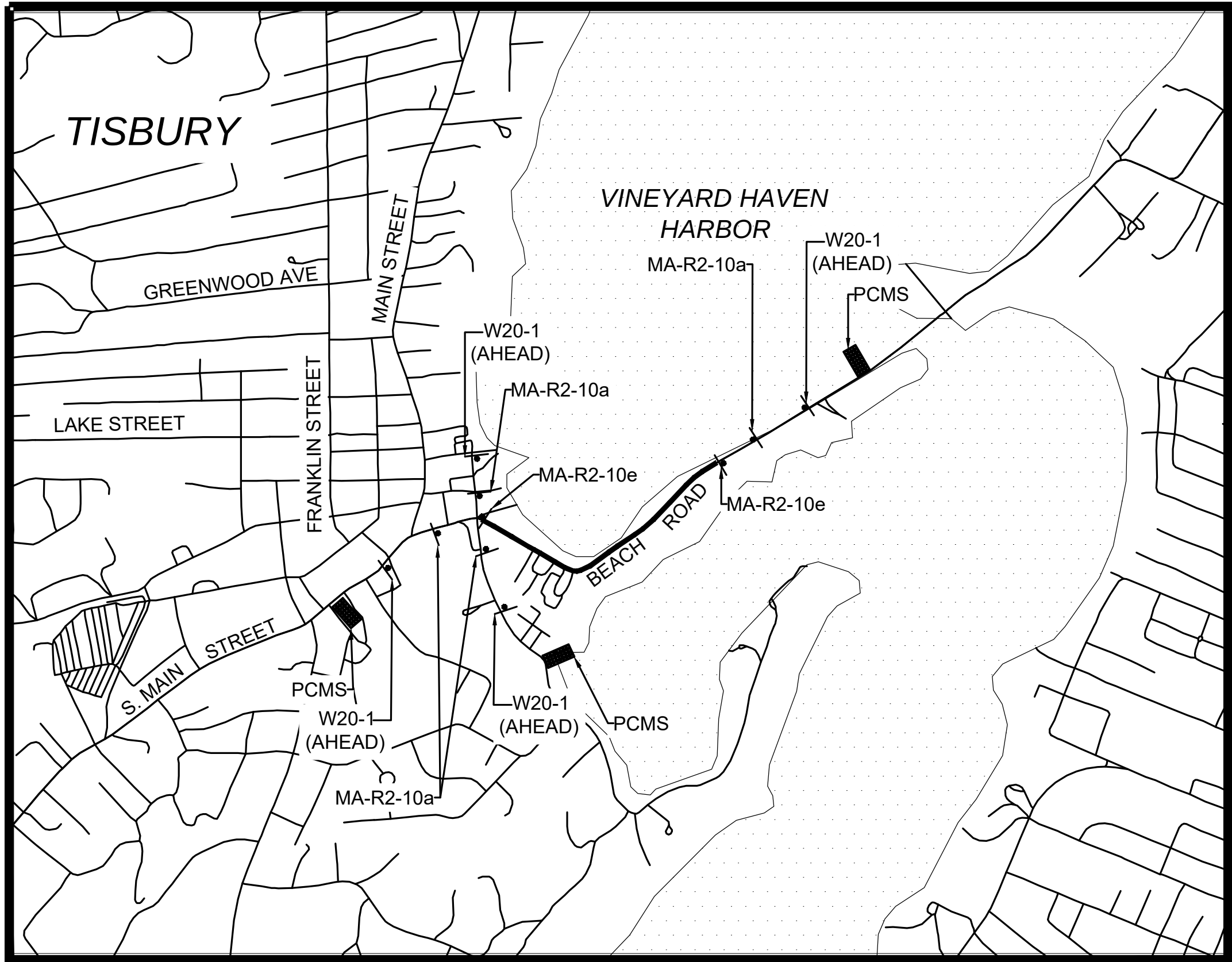
CONSTRUCTION SIGN SUMMARY

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING		BACK- GROUND	LEGEND	BORDER		
MA-R2-10a	48"	36"	WORK ZONE SPEEDING FINES DOUBLED	MASSDOT STANDARD		4	ORANGE	BLACK	BLACK	12.00	48.00
MA-R2-10e	36"	48"	END ROAD WORK DOUBLE FINES END			2	ORANGE	BLACK	BLACK	12.00	24.00
R4-7	24"	30"				2	WHITE	BLACK	BLACK	5.00	10.00
R9-9	24"	12"	SIDEWALK CLOSED			2	WHITE	BLACK	BLACK	2.00	4.00
R9-11aL	24"	12"	SIDEWALK CLOSED AHEAD ← CROSS HERE			1	WHITE	BLACK	BLACK	2.00	2.00
R9-11aR	24"	12"	SIDEWALK CLOSED AHEAD → CROSS HERE	MUTCD STANDARD		1	WHITE	BLACK	BLACK	2.00	2.00
W1-4L	36"	36"				2	ORANGE	BLACK	BLACK	9.00	18.00
W1-4R	36"	36"				2	ORANGE	BLACK	BLACK	9.00	18.00
W5-1	36"	36"	ROAD NARROWS			3	ORANGE	BLACK	BLACK	9.00	27.00
W8-1	36"	36"	BUMP			4	ORANGE	BLACK	BLACK	9.00	36.00
W8-3	36"	36"	PAVEMENT ENDS			4	ORANGE	BLACK	BLACK	9.00	36.00
W8-8	36"	36"	ROUGH ROAD			2	ORANGE	BLACK	BLACK	9.00	18.00
W11-2	30"	30"				4	YELLOW	BLACK	BLACK	6.25	25.00
W13-1P	24"	24"	XX M.P.H			2	ORANGE	BLACK	BLACK	4.00	8.00
W16-7pL	24"	12"				4	YELLOW	BLACK	BLACK	2.00	8.00
W20-1 (AHEAD)	36"	36"	ROAD WORK AHEAD	MASSDOT STANDARD		4	ORANGE	BLACK	BLACK	9.00	36.00
W20-4	36"	36"	ONE LANE ROAD (XXX FT)			6	ORANGE	BLACK	BLACK	9.00	54.00
W20-7	36"	36"				6	ORANGE	BLACK	BLACK	9.00	54.00
MA-W20-7b	36"	36"	POLICE OFFICER AHEAD	MASSDOT STANDARD		6	ORANGE	BLACK	BLACK	9.00	54.00
W21-5a	36"	36"	RIGHT SHOULDER CLOSED	MUTCD STANDARD		1	ORANGE	BLACK	BLACK	9.00	9.00
TOTAL										491.00	

TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	29	75
PROJECT FILE NO.		607411	

TEMPORARY TRAFFIC
CONTROL PLANS



ADVANCE WARNING SIGN LOCATIONS

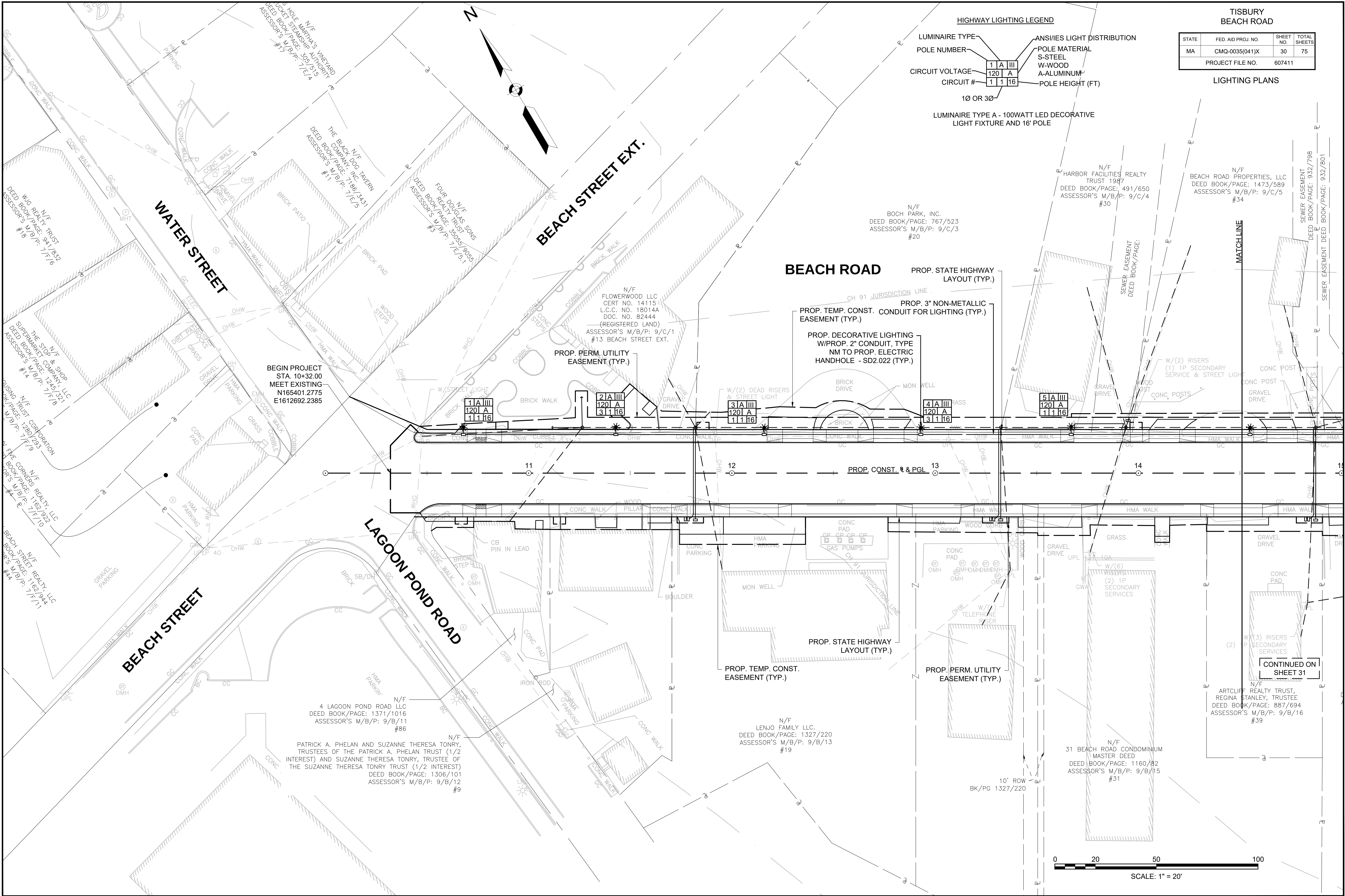
1" = 500'

PORTABLE CHANGEABLE MESSAGE SIGNS

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL CONFORM TO THE 2009 MUTCD AS AMENDED AND SHOULD BE PLACED ON THE SHOULDER OF THE ROADWAY OR IF PRACTICAL SET WELL AWAY FROM THE TRAVEL LANE. MESSAGE SIGNS SHOULD BE PROTECTED WITH RETROREFLECTIVE TEMPORARY TRAFFIC CONTROL DEVICES WHEN PLACED WITHIN THE AVAILABLE CLEAR ZONE OR ELSE SHIELDED WITH A BARRIER OR CRASH CUSHION. THE LOCATION AND USE OF THE PCMS SHALL BE DETERMINED DURING THE PRE-CONSTRUCTION MEETING. ALTERNATIVE MESSAGES MAY BE DETERMINED BY THE ENGINEER IN THE FIELD

THE SUGGESTED MESSAGE TWO WEEKS IN ADVANCE AND DURING CONSTRUCTION SHOULD READ AS FOLLOWS:

TWO WEEKS PRIOR		DURING CONSTRUCTION	
(MESSAGE 1)	BEACH ROAD ROADWORK	BEACH ROAD ROADWORK	
(MESSAGE 2)	BEGINS XXXXXX	SEEK ALT ROUTE	



CONTINUED ON
SHEET 32



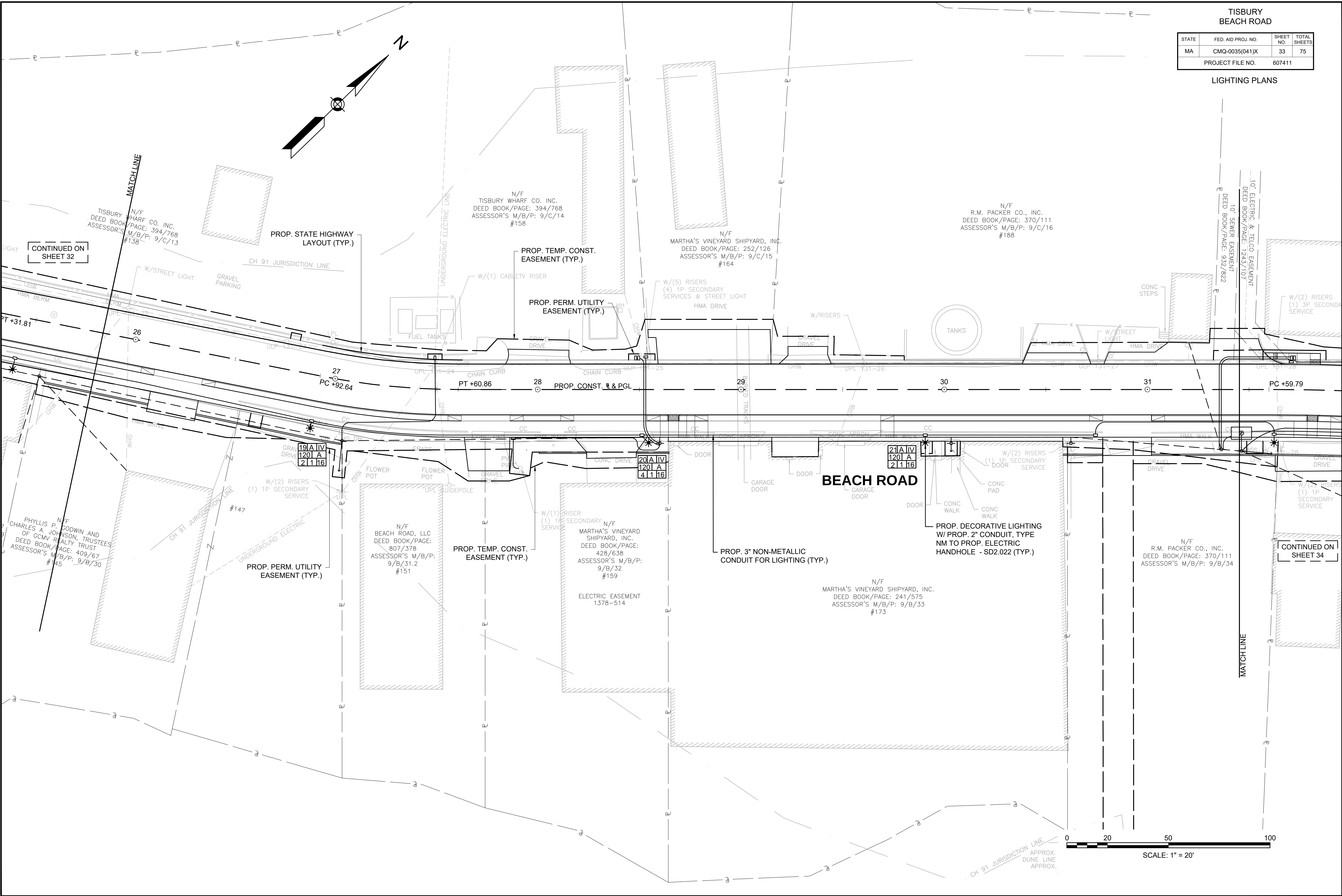
LIGHTING PLANS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	33	75
PROJECT FILE NO.		607411	

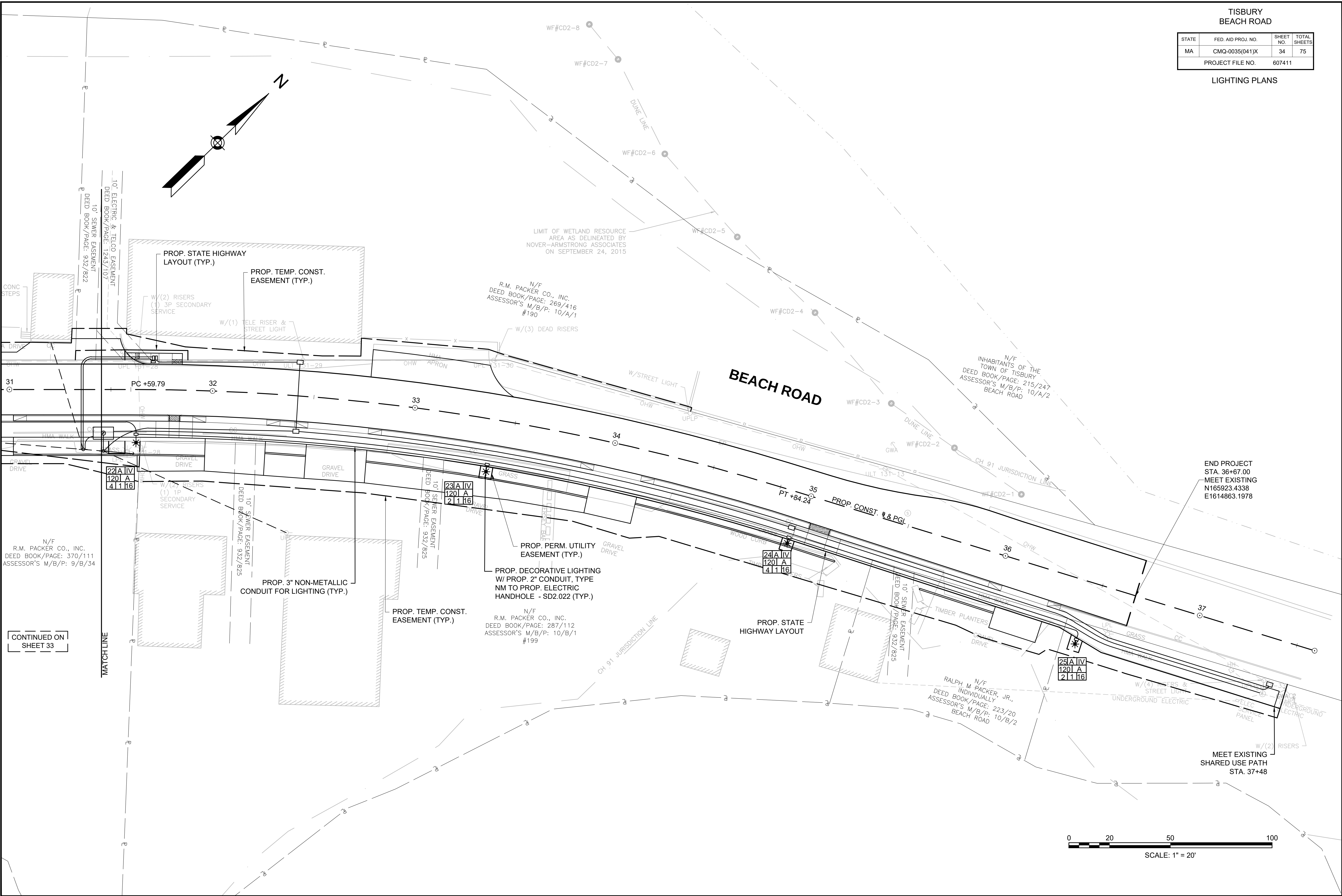
LIGHTING PLANS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	34	75
PROJECT FILE NO.		607411	

LIGHTING PLANS



CONTINUED ON
SHEET 33

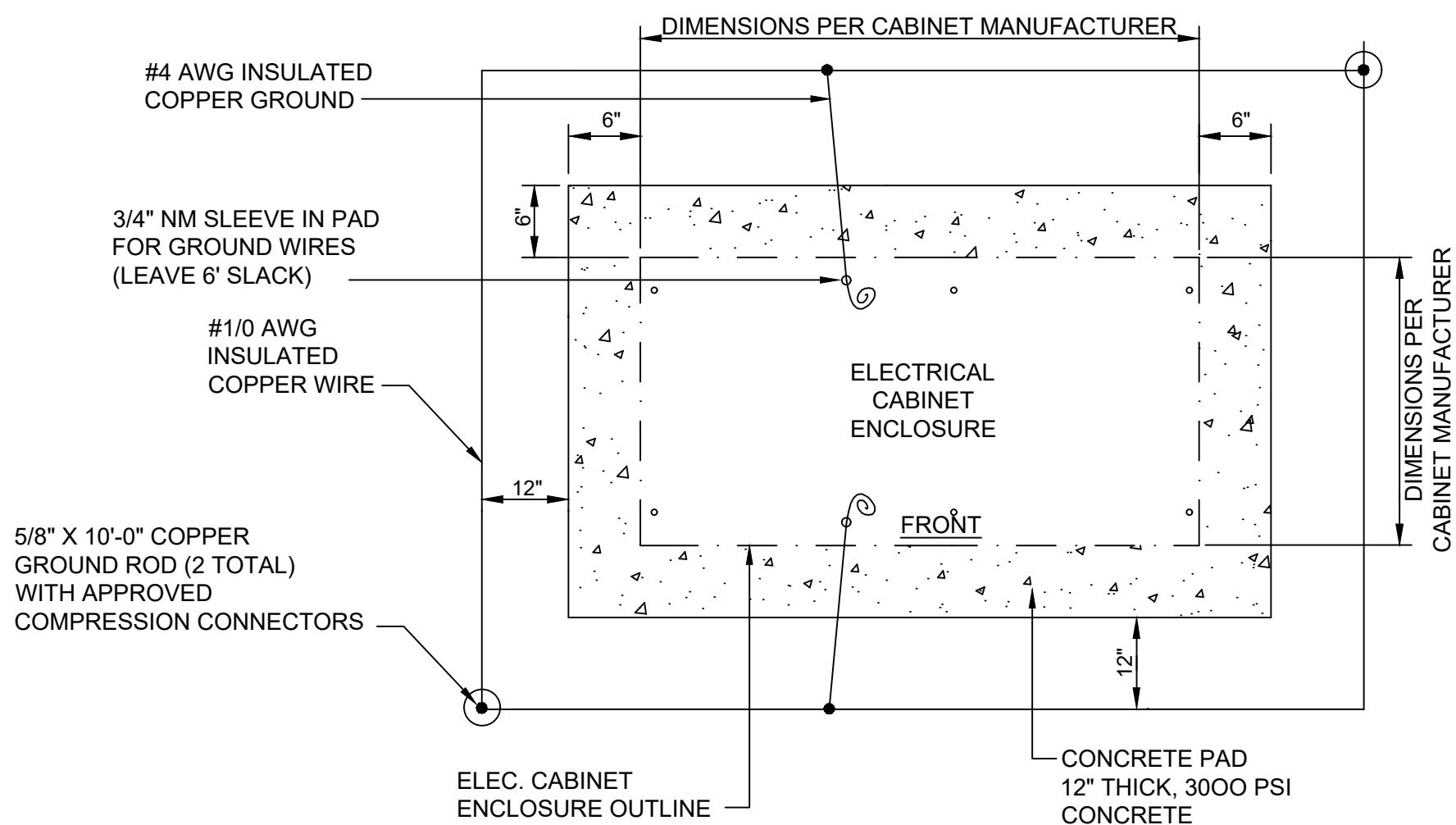
END PROJECT
STA. 36+67.00
MEET EXISTING
N165923.4338
E1614863.1978

MEET EXISTING
SHARED USE PATH
STA. 37+48

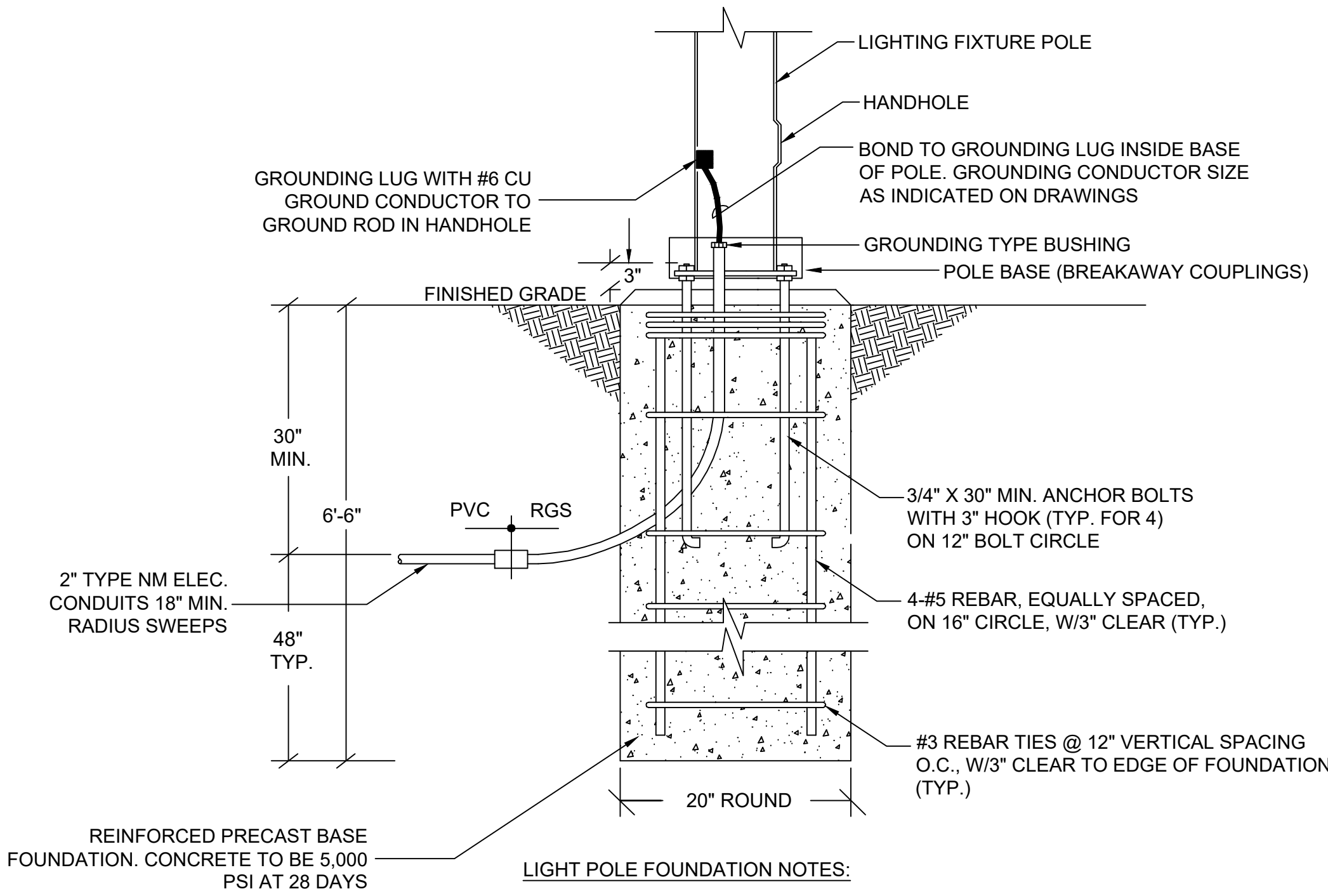
0 20 50 100
SCALE: 1" = 20'

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	35	75
PROJECT FILE NO.		607411	

LIGHTING DETAILS



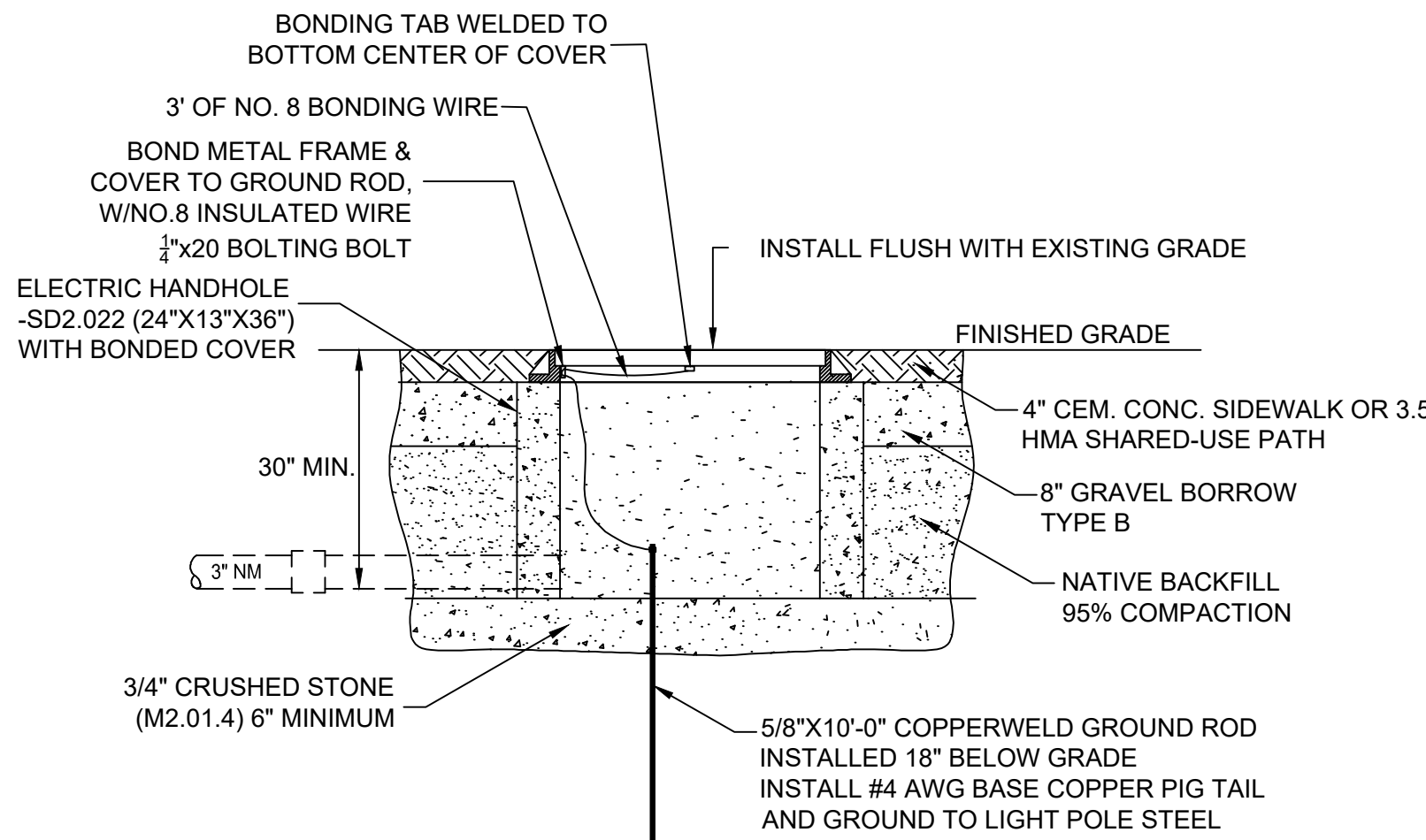
ELECTRICAL CABINET FOUNDATION PLAN
NOT TO SCALE



LIGHT POLE FOUNDATION NOTES:

- BOLT PATTERN SHOWN IS TYPICAL AND NOT FOR CONSTRUCTION CONTRACTOR TO PROVIDE BOLT PATTERN DETAILS BASED ON SELECTED MANUFACTURER.
- PROVIDE REBAR DETAIL FROM PRECAST CONCRETE VENDOR FOR APPROVAL.
- CONDUIT LOCATIONS SHOWN ARE TYPICAL.

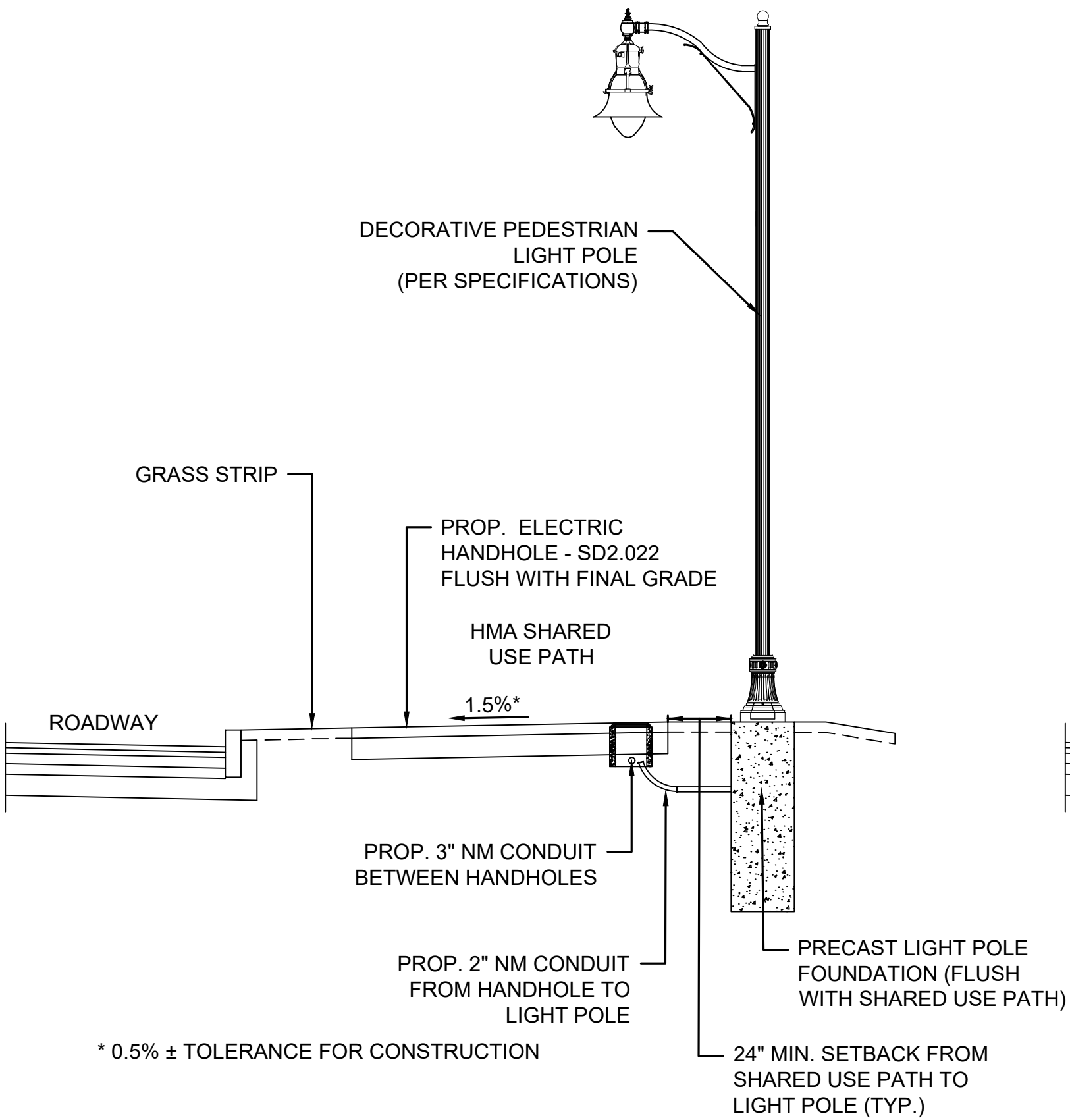
LIGHT POLE FOUNDATION DETAIL
NOT TO SCALE



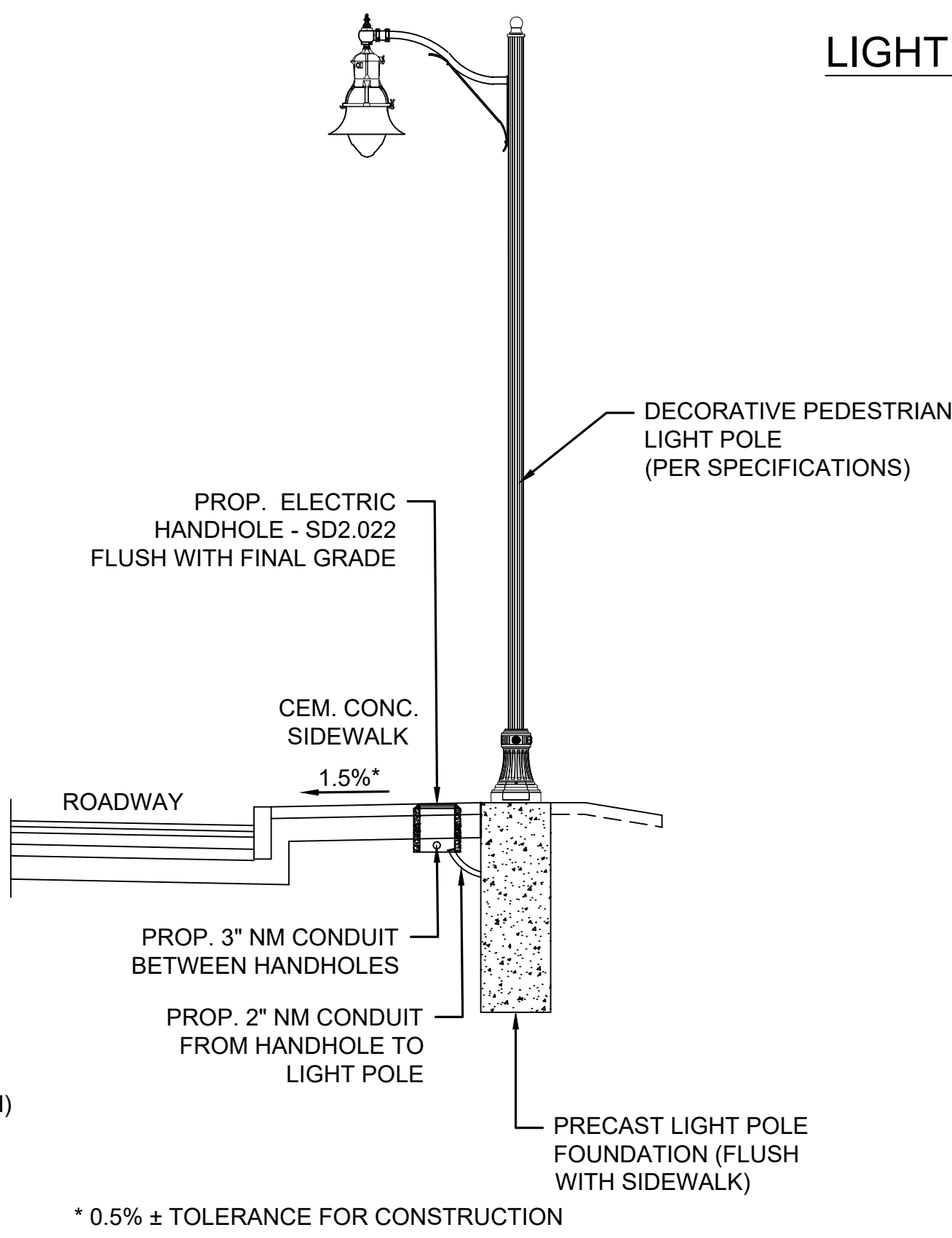
HANDHOLE INSTALLATION NOTES:

- HANDHOLE ORIENTATION TO BE SUCH THAT ALL SUPPLY DUCTS ENTER ON SAME SHORT SIDE.
- SIZE AND NUMBER OF CONDUITS AS REQUIRED.
- CONDUIT LOCATIONS SHOWN ARE TYPICAL.

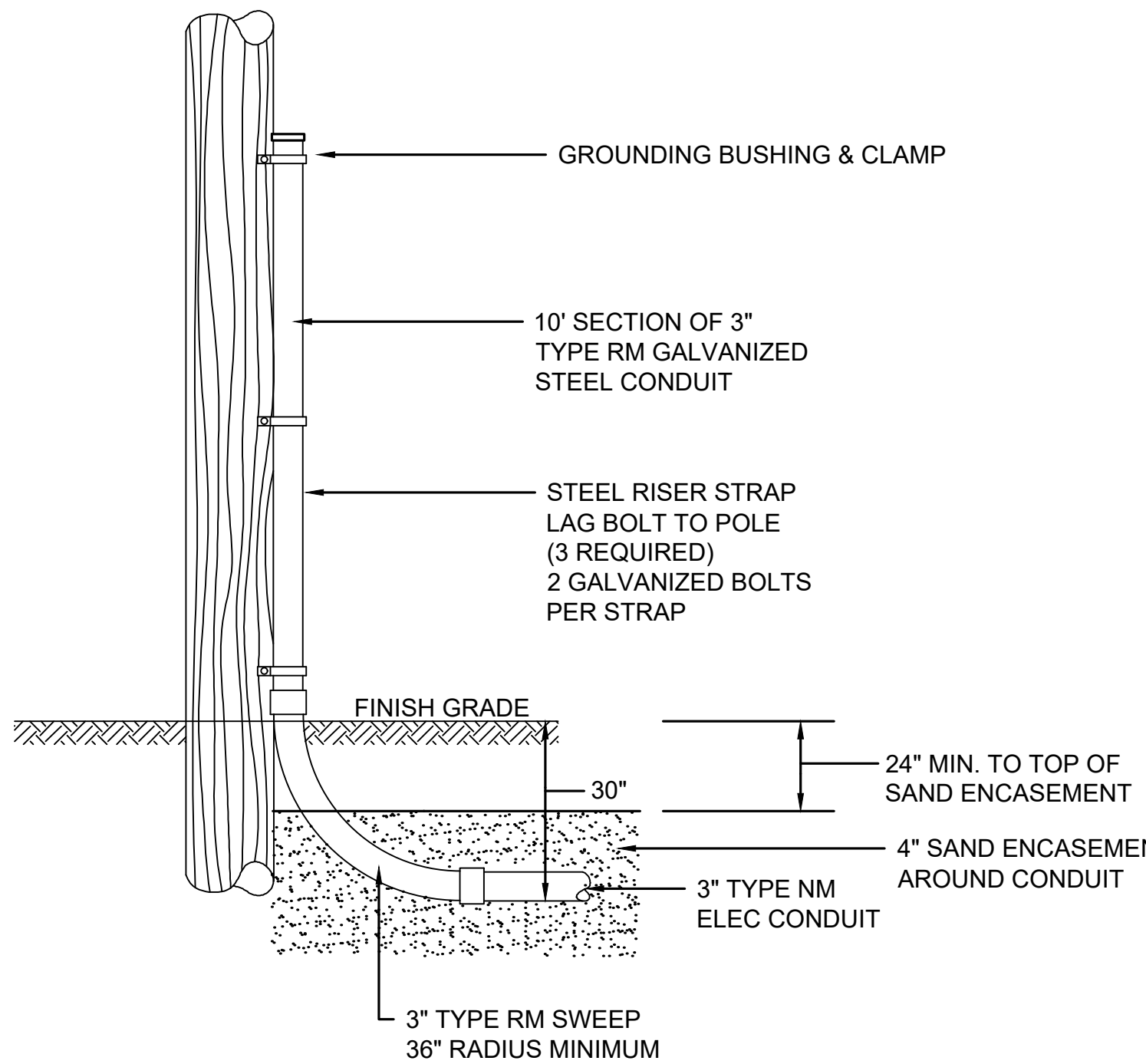
**INSTALLATION DETAIL
ELECTRIC HANDHOLE**
NOT TO SCALE



**LIGHT POLE BEHIND
SHARED USE PATH**



LIGHT POLE BEHIND SIDEWALK



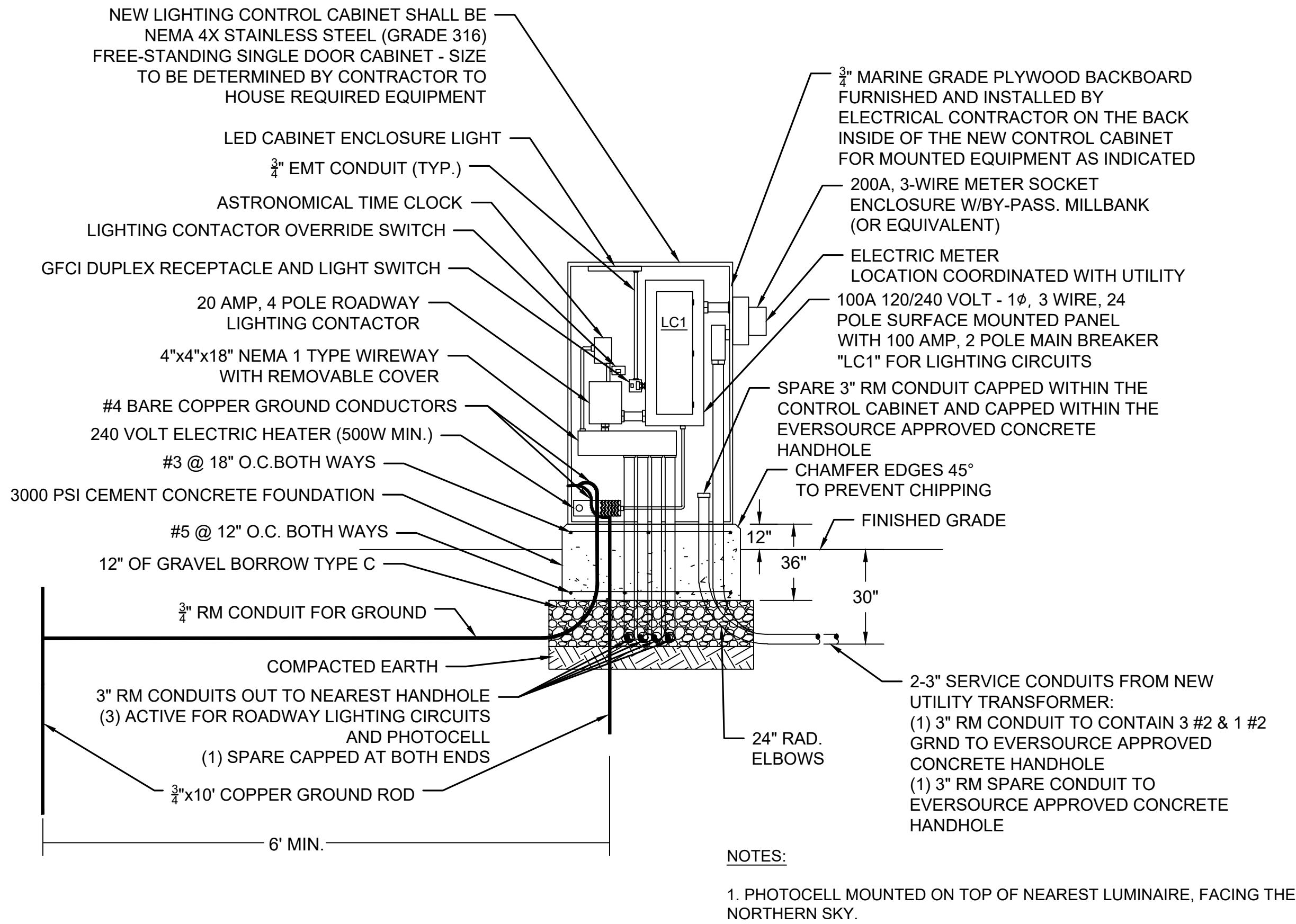
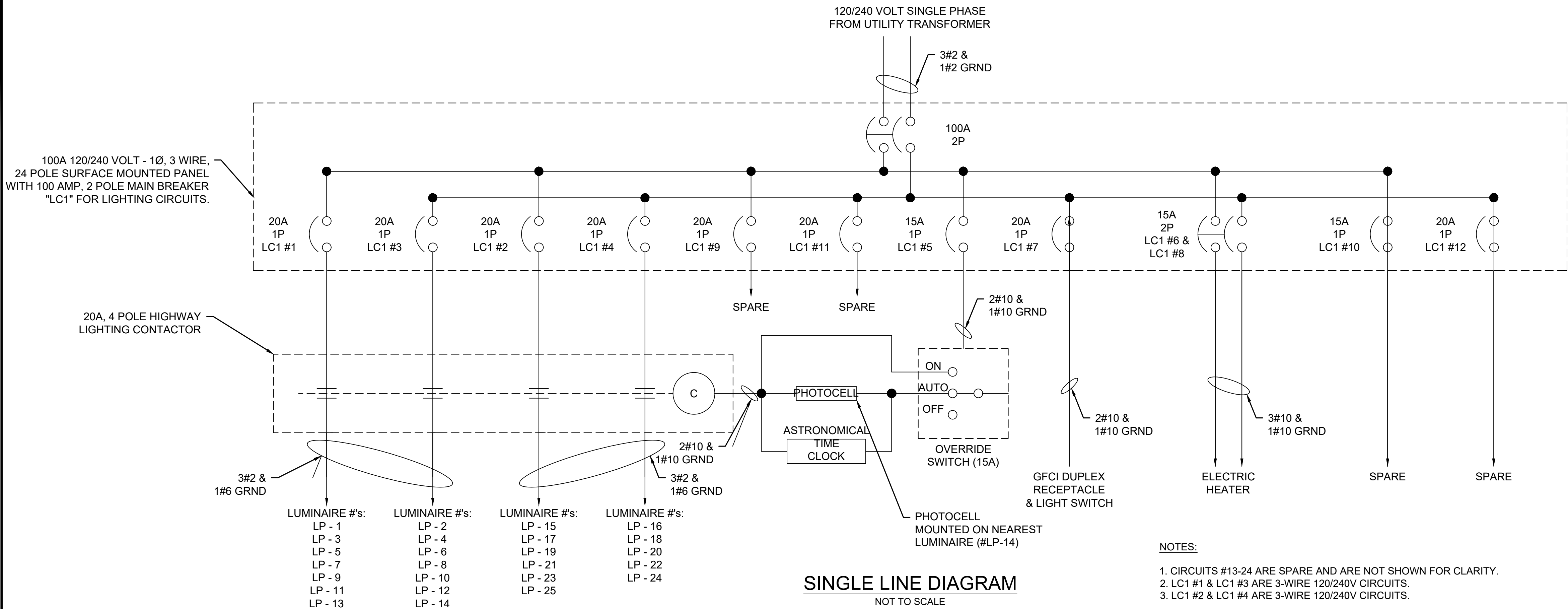
**TYPICAL UTILITY
RISER POLE DETAIL**
NOT TO SCALE

**INSTALLATION DETAIL TYPICAL SECTION
ELECTRIC HANDHOLE FOR LIGHTING**
NOT TO SCALE

TISBURY
BEACH ROAD

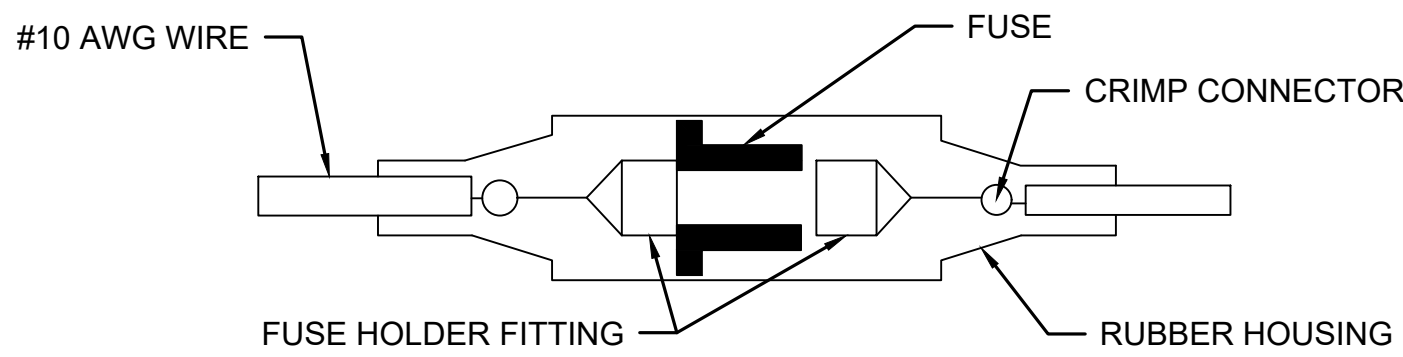
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	36	75
PROJECT FILE NO.		607411	

LIGHTING DETAILS



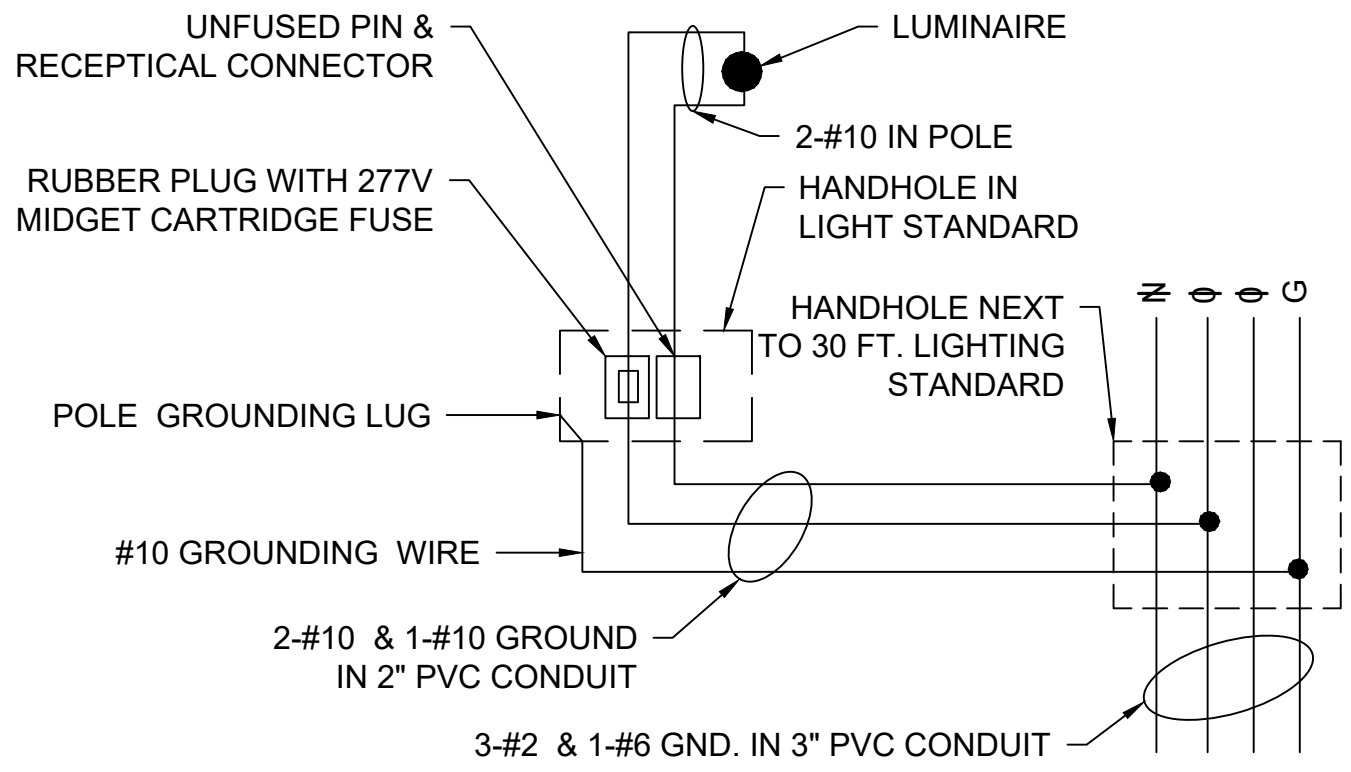
LIGHTING LOAD CENTER DETAIL

NOT TO SCALE



FUSE DETAIL FOR LUMINAIRE

NOT TO SCALE

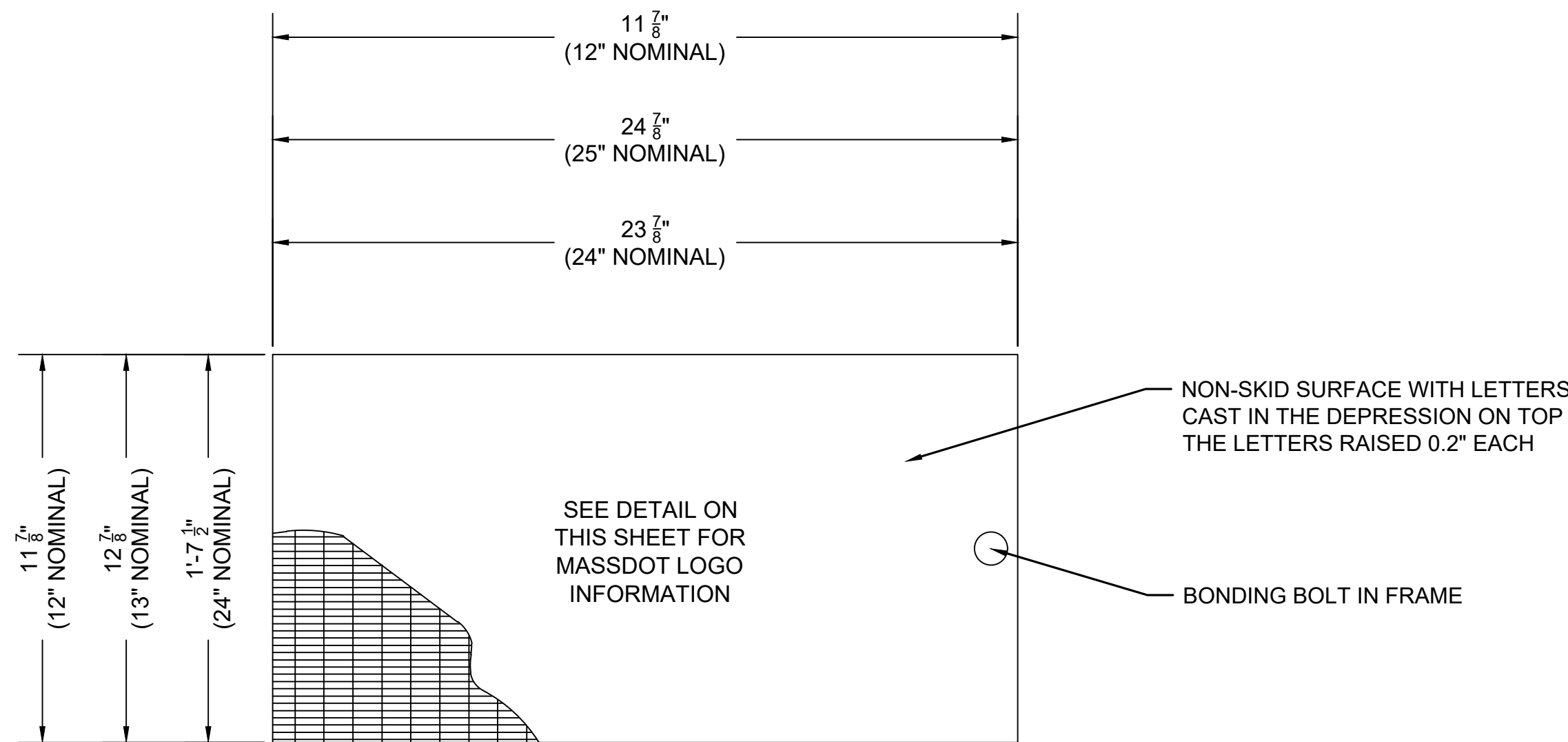
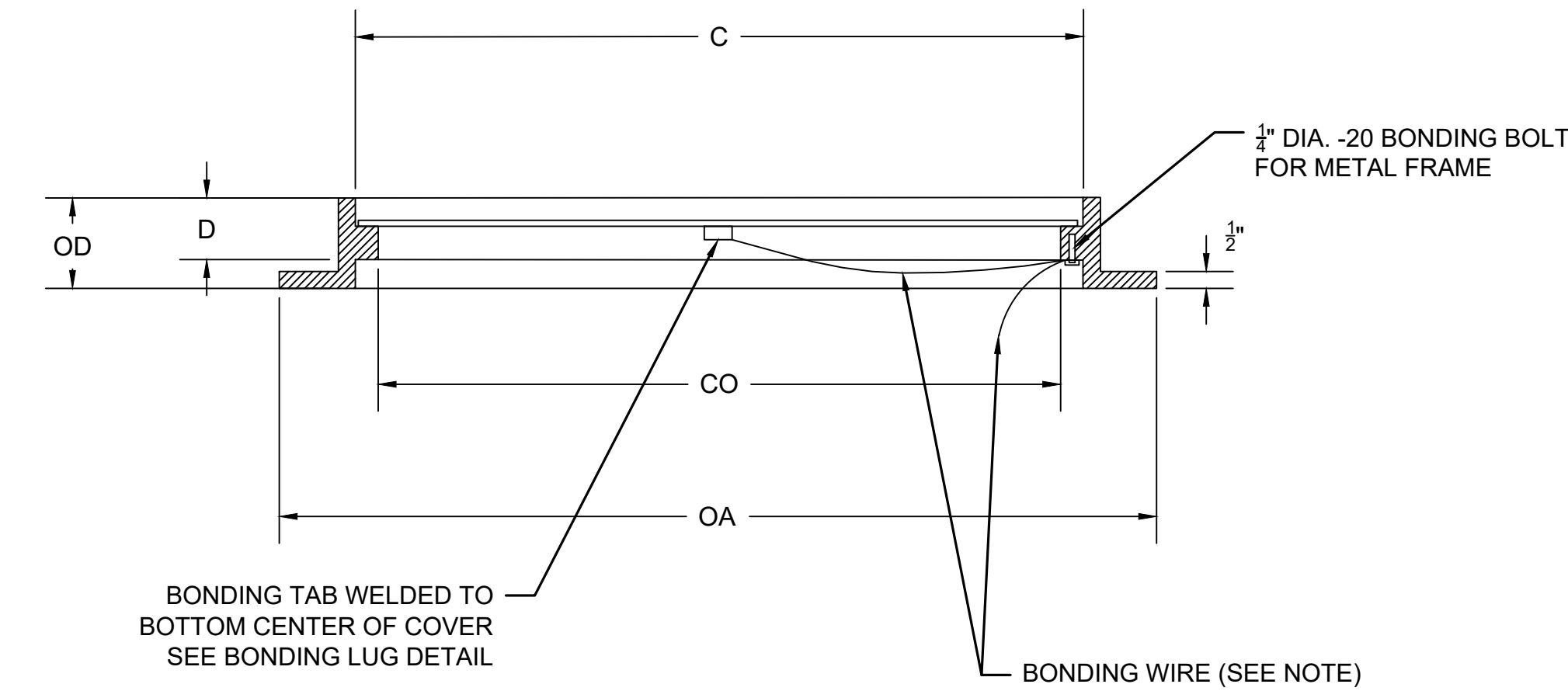


WIRING DIAGRAM FOR HIGHWAY LIGHTING LUMINAIRE

NOT TO SCALE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	37	75
PROJECT FILE NO.		607411	

LIGHTING DETAILS



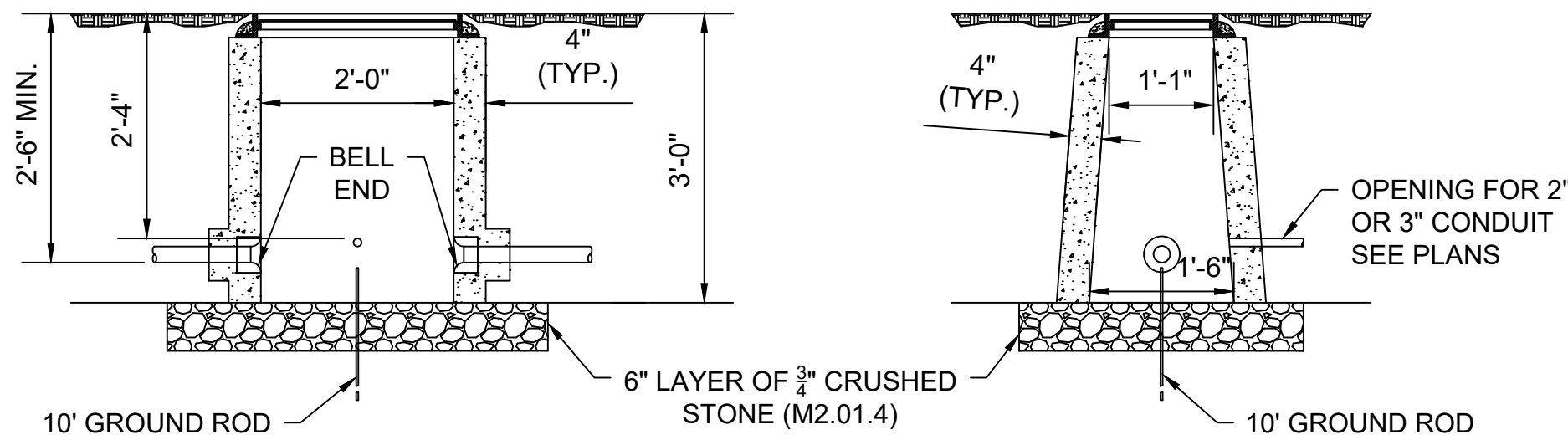
ELECTRIC HANDHOLE FRAME AND COVER DETAIL

NOT TO SCALE

SIZE OF COVER	COVER DEPTH	OVERALL DEPTH	CLEAR OPENING	OVERALL	APPROX. WEIGHT	STANDARD DRAWING
C	D	OD	CO	OA	W	W
12" x 12"	1"	3 1/2"	10 1/2" x 10 1/2"	17 1/4" x 17 1/4"	82 LB.	811.31.0
13" x 25"	1 1/2"	3"	12" x 24"	20" x 29 3/4"	159 LB.	811.22.0 811.32.0
24" x 24"	1"	3"	22" x 22"	28 1/2" x 28 1/2"	190 LB.	811.23.0

NOTE:

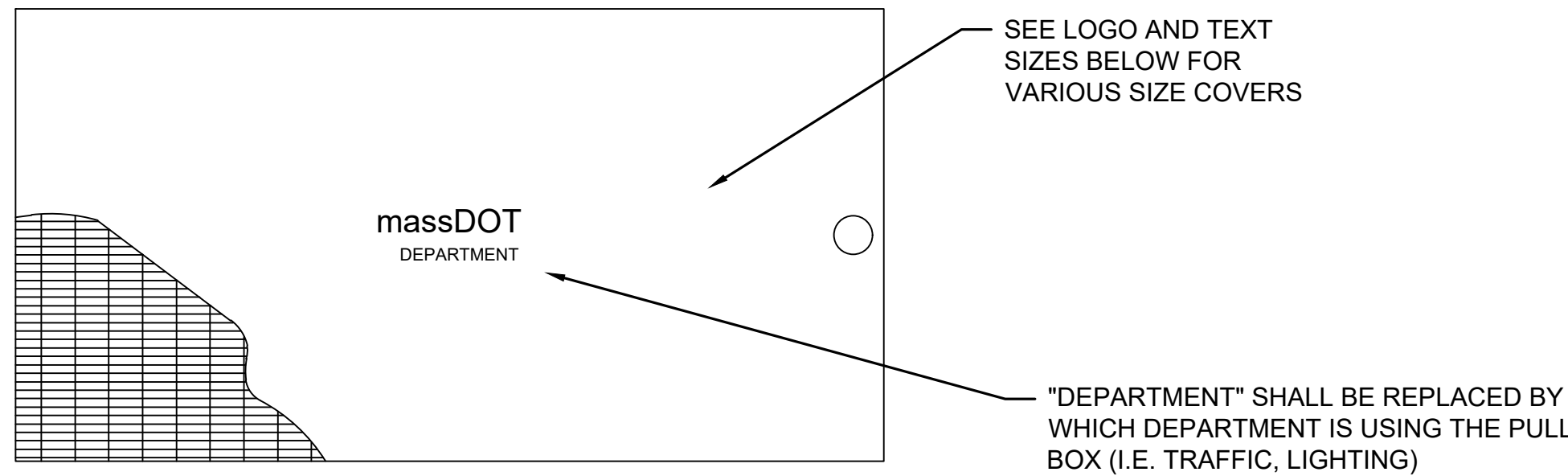
ATTACH 3 FEET OF NO. 8 BONDING WIRE FROM COVER TAB TO BONDING BOLT ON FRAME. ATTACH SUFFICIENT LENGTH OF NO. 8 BONDING WIRE FROM BONDING BOLT ON FRAME TO THE BONDING WIRE ROUTED THROUGH THE PULL BOX.



SECTIONS THROUGH ELECTRIC HANDHOLE

(SD2-022)

NOT TO SCALE



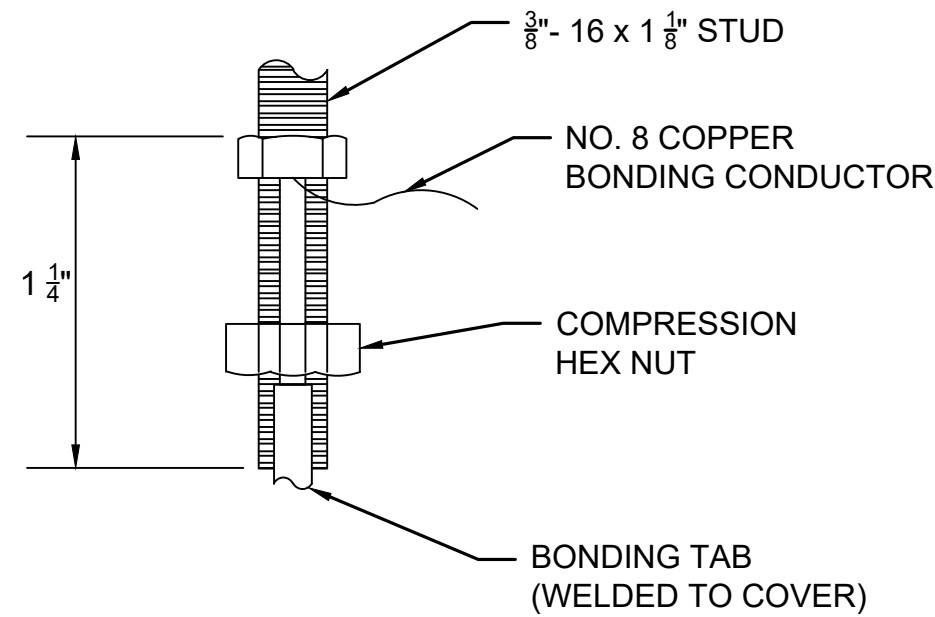
MASSDOT LOGO FOR ELECTRIC HANDHOLE

NOT TO SCALE

NOTES:

1. LOGO AND TEXT SHALL BE CENTERED WITHIN THE COVER.
2. LOGO AND TEXT SHALL BE RAISED 0.2 INCHES FROM THE COVER SURFACE.
3. LOGO AND TEXT SHALL BE ITALICIZED AND SHALL UTILIZE THE "ERAS DEMI" STYLE FONT.

SIZE OF COVER	MASSDOT LOGO	DEPARTMENT TEXT SIZE	STANDARD DRAWING
12" x 12"	9" WIDE x 1.3" HIGH	TRAFFIC: 3" WIDE x 0.5" HIGH LIGHTING: 3.5" WIDE x 0.5" HIGH	811.31.1 811.31.2 811.32.1 811.32.2
12" x 8"	6" WIDE x 0.85" HIGH	TRAFFIC: 2" WIDE x 0.35" HIGH LIGHTING: 2.25" WIDE x 0.35" HIGH	
13" x 24"	13.25" WIDE x 2" HIGH	TRAFFIC: 3" WIDE x 0.5" HIGH LIGHTING: 3.5" WIDE x 0.5" HIGH	
CIRCULAR (24", 26", OR 27.5" DIAMETER)	13.25" WIDE x 2" HIGH	TRAFFIC: 3" WIDE x 0.5" HIGH LIGHTING: 3.5" WIDE x 0.5" HIGH	



BONDING LUG

NOT TO SCALE

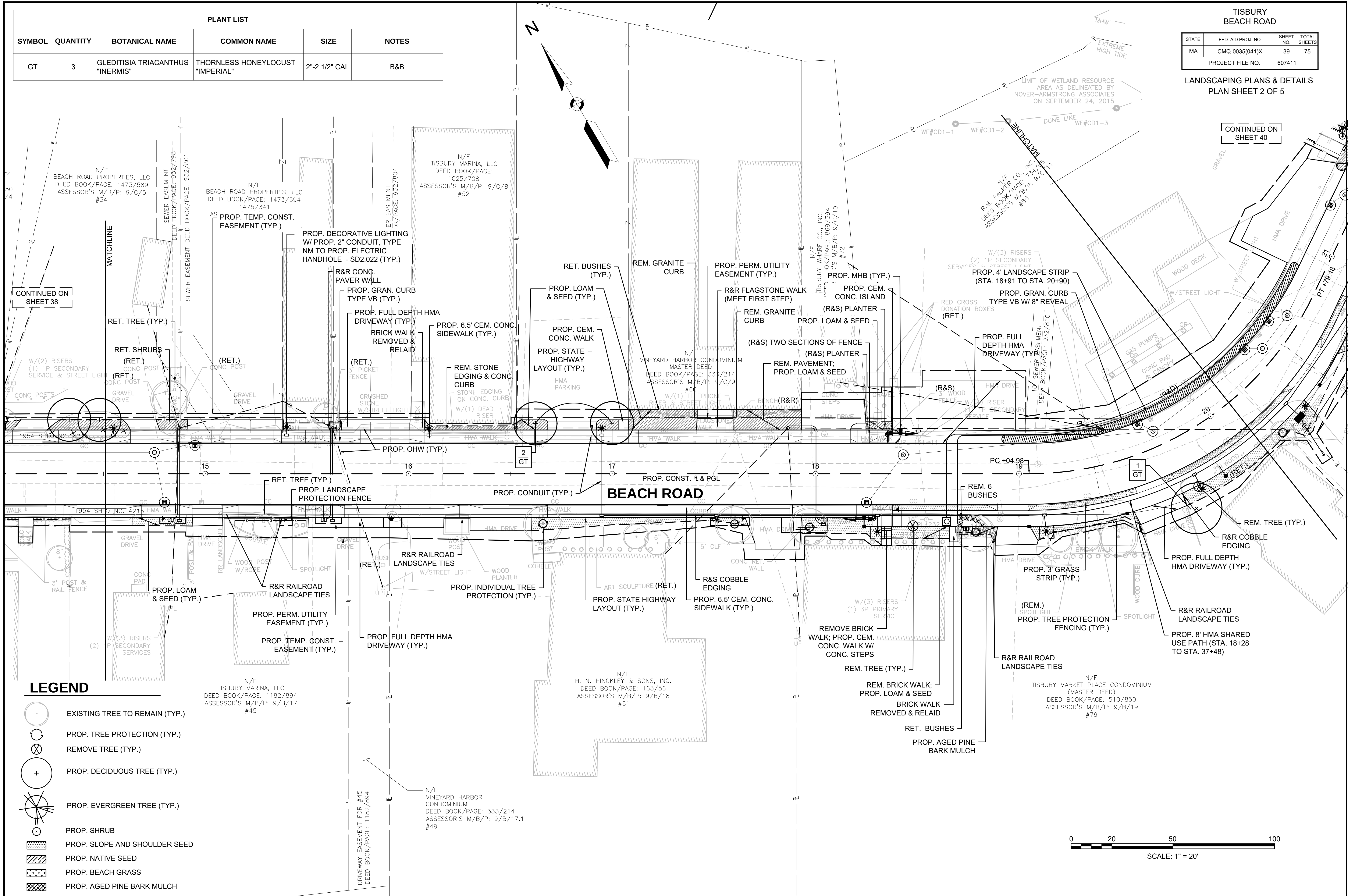
NOTES:

1. BONDING POST CONNECTOR SHALL BE LONG STUD TYPE WHICH WILL ACCOMMODATE A DOUBLE CONDUCTOR INSTALLATION.
2. ATTACH 3 FOOT LENGTH OF NO. 8 COPPER BONDING CONDUCTOR FROM BONDING POST CONNECTOR INSTALLED ON COVER TO BONDING POST CONNECTOR INSTALLED ON FRAME.
3. ATTACH FREE END OF BONDING CONDUCTOR ROUTED THROUGH CONDUIT SYSTEM TO BONDING POST CONNECTOR INSTALLED IN THE FRAME.
4. LUG SHALL BE EITHER COPPER OR BRASS.

PLANT LIST					
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
GT	3	GLEDTISIA TRIACANTHUS "INERMIS"	THORNLESS HONEYLOCUST "IMPERIAL"	2"-2 1/2" CAL	B&B

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	39	75
PROJECT FILE NO.		607411	

LANDSCAPING PLANS & DETAILS
PLAN SHEET 2 OF 5



LEGEND

- EXISTING TREE TO REMAIN (TYP.)
- PROP. TREE PROTECTION (TYP.)
- REMOVE TREE (TYP.)
- PROP. DECIDUOUS TREE (TYP.)
- PROP. EVERGREEN TREE (TYP.)
- PROP. SHRUB
- PROP. SLOPE AND SHOULDER SEED
- PROP. NATIVE SEED
- PROP. BEACH GRASS
- PROP. AGED PINE BARK MULCH



VINEYARD HAVEN HARBOR

BEACH ROAD

LAGOON POND

LEGEND

- EXISTING TREE TO REMAIN (TYP.)
- PROP. TREE PROTECTION (TYP.)
- REMOVE TREE (TYP.)
- PROP. DECIDUOUS TREE (TYP.)
- PROP. EVERGREEN TREE (TYP.)
- PROP. SHRUB
- PROP. SLOPE AND SHOULDER SEED
- PROP. NATIVE SEED
- PROP. BEACH GRASS
- PROP. AGED PINE BARK MULCH

PLANT LIST

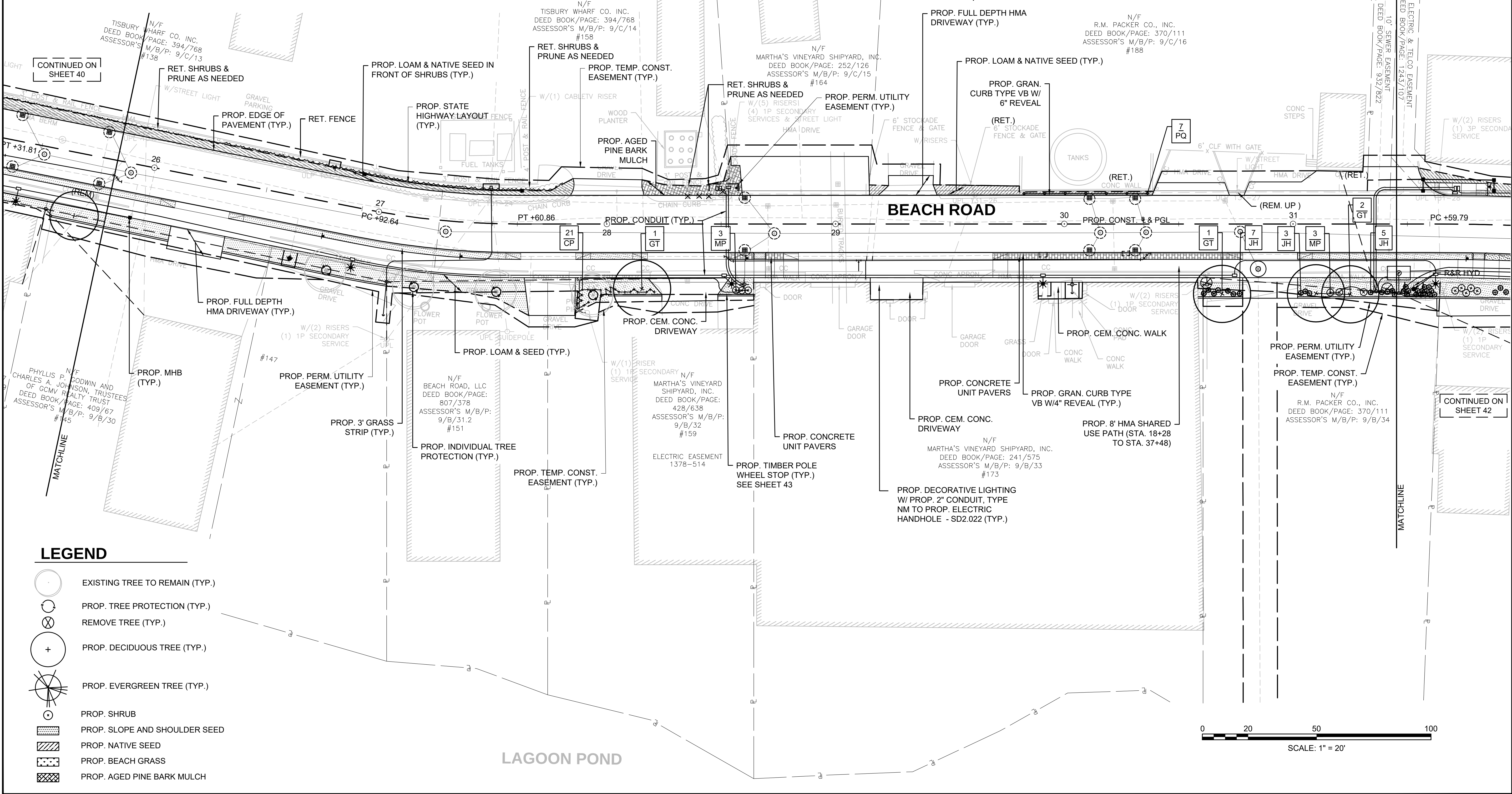
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
AB	3,450	AMMOPHILIA BREVIGULATA	AMERICAN BEACHGRASS	CULMS	2 PER HOLE, 12" O.C STAGGERED
GT	1	GLEDITISIA TRIACANTHUS "INERMIS"	THORNLESS HONEYLOCUST "IMPERIAL"	2"-2 1/2" CAL	B&B
JH	16	JUNIPERUS HORIZONTALIS "BAR HARBOR"	CREeping JUNIPER	12"-15" SPD.	
MP	18	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.	
PM	10	PRUNUS MARITIMA	BEACH PLUM	2'-3" HT.	

0 20 50 100
SCALE: 1" = 20'

PLANT LIST					
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
CP	21	COMPTONIA PEREGRINA	SWEET FERN	1 GALLON	18" O.C STAGGERED
GT	4	GLEDTISIA TRIACANTHUS "INERMIS"	THORNLESS HONEYLOCUST "IMPERIAL"	2"-2 1/2" CAL	B&B
JH	15	JUNIPERUS HORIZONTALIS "BAR HARBOR"	CREeping JUNIPER	12"-15" SPD.	
MP	6	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.	
PQ	7	PARTHENOCEISSUS QUINQUEFOLIA	VIRGINIA CREEPER	1 GALLON	BASE OF WALL

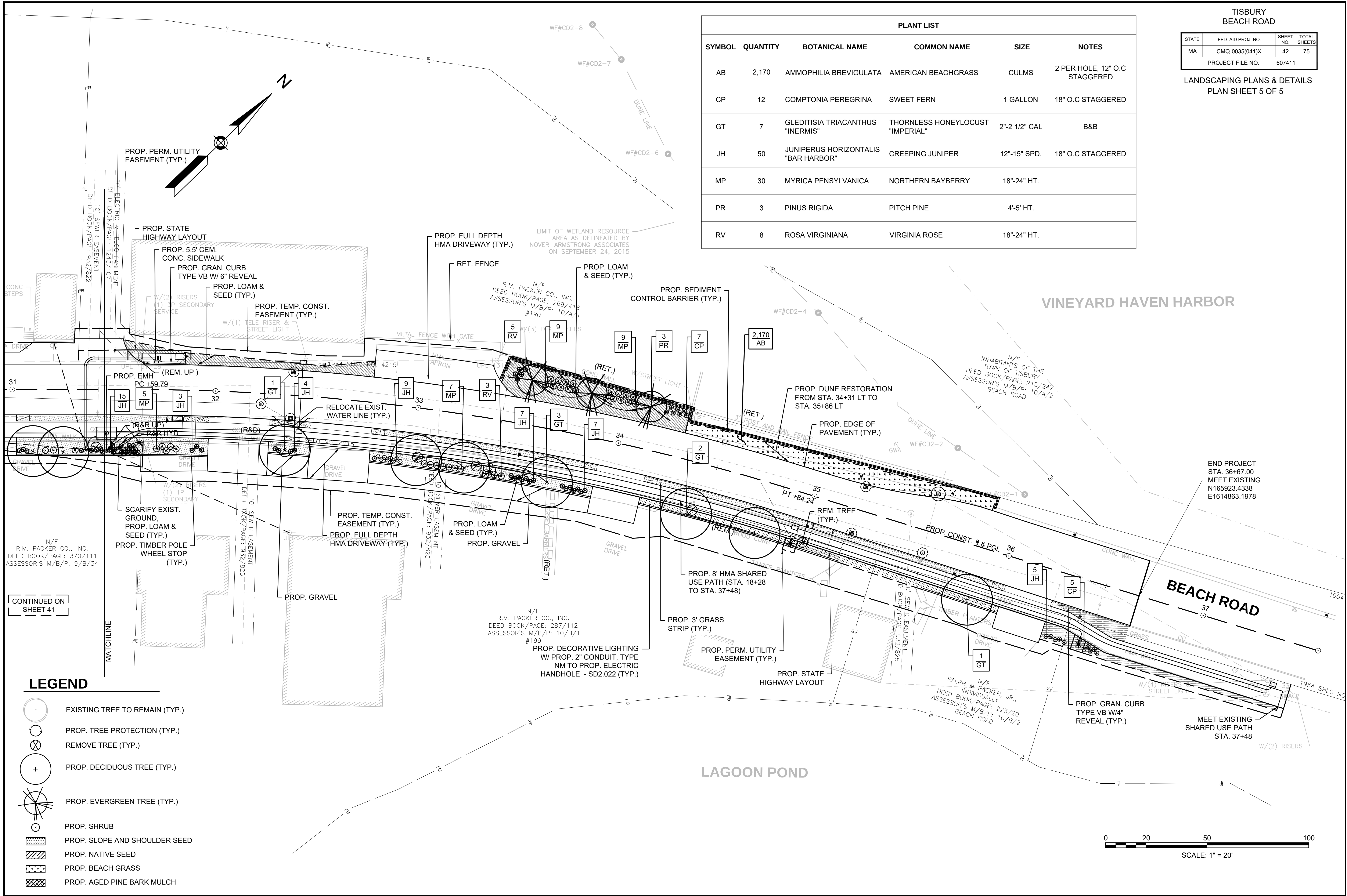
TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	41	75
PROJECT FILE NO.		607411	

LANDSCAPING PLANS & DETAILS
PLAN SHEET 4 OF 5



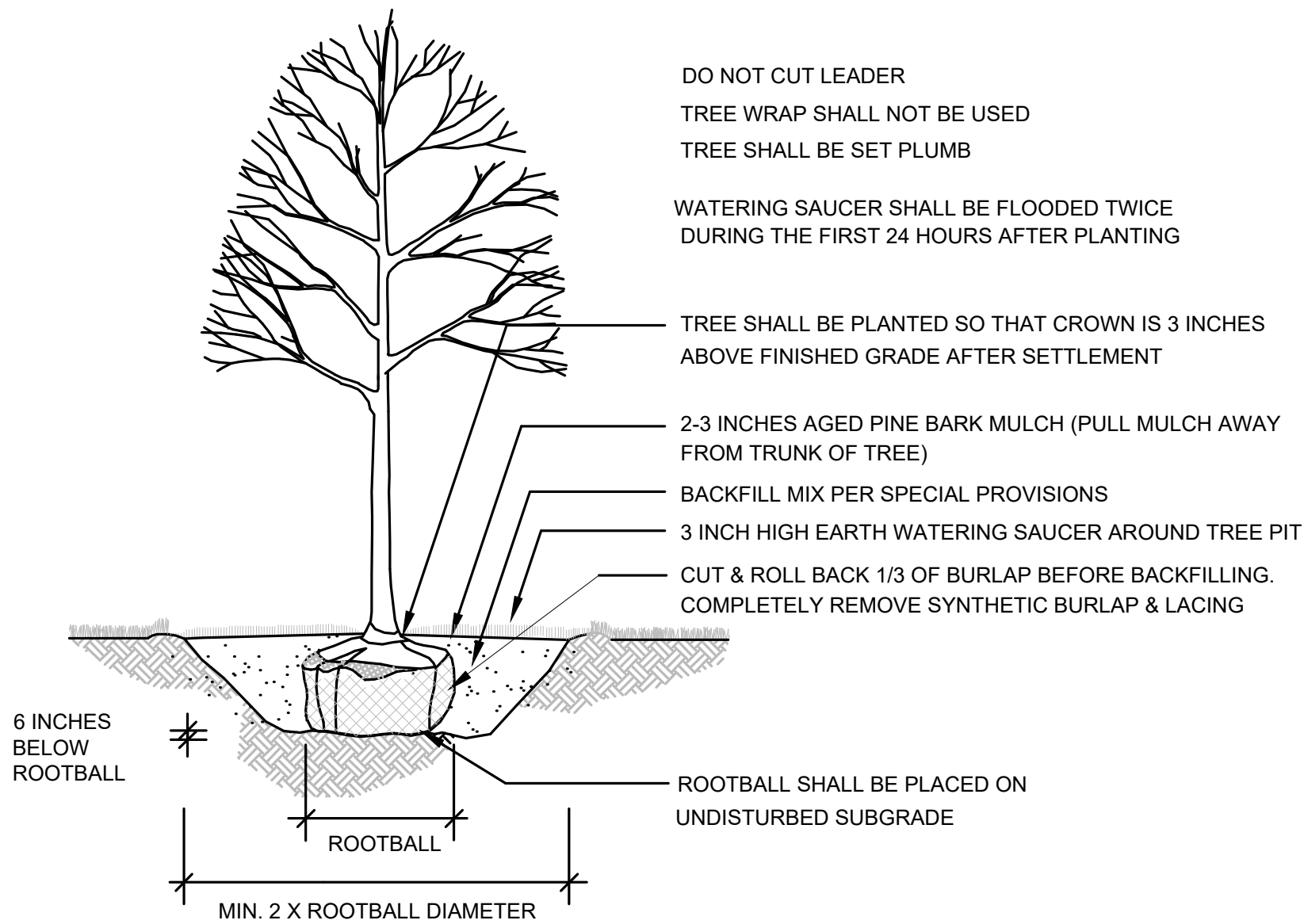
LEGEND

- EXISTING TREE TO REMAIN (TYP.)
- PROP. TREE PROTECTION (TYP.)
- REMOVE TREE (TYP.)
- PROP. DECIDUOUS TREE (TYP.)
- PROP. EVERGREEN TREE (TYP.)
- PROP. SHRUB
- PROP. SLOPE AND SHOULDER SEED
- PROP. NATIVE SEED
- PROP. BEACH GRASS
- PROP. AGED PINE BARK MULCH



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	43	75
PROJECT FILE NO.		607411	

LANDSCAPING PLANS & DETAILS
DETAIL SHEET 1 OF 2



1 DECIDUOUS TREE PLANTING
NOT TO SCALE

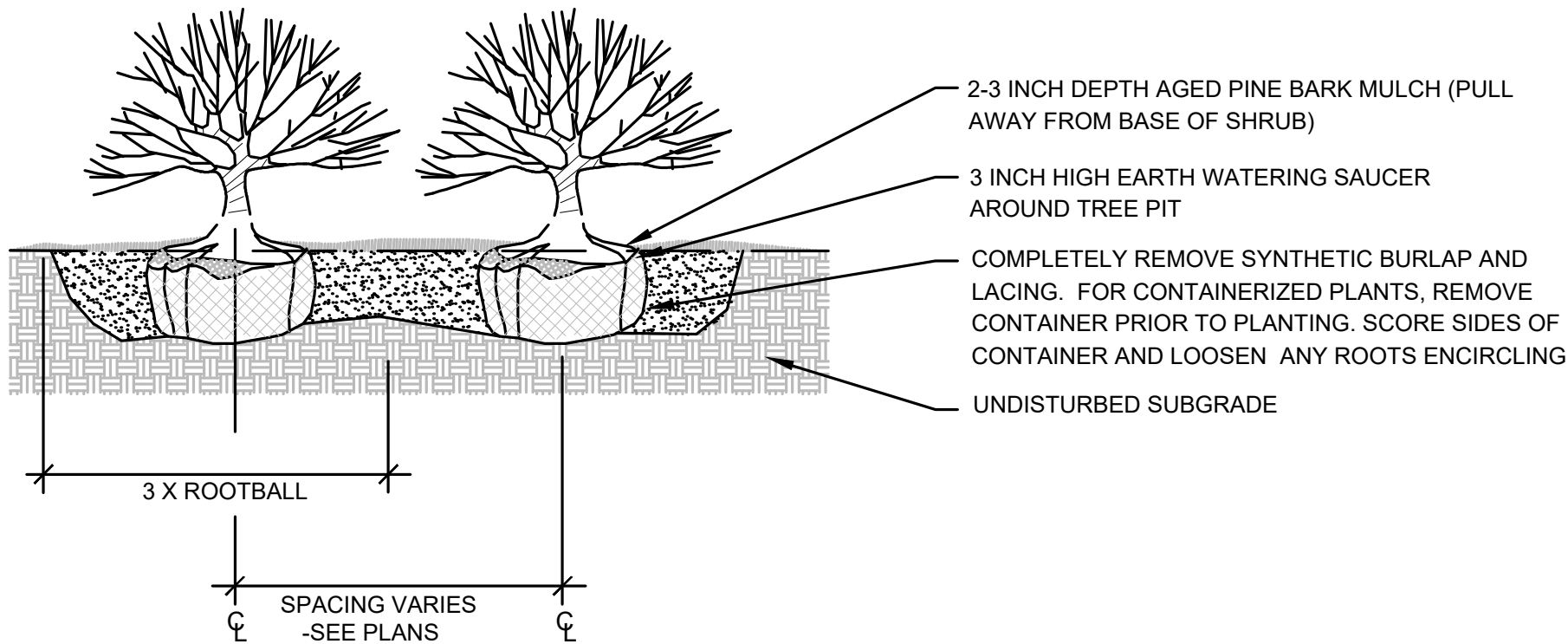
WATER BY FLOODING TWICE IN FIRST TWO HOURS AFTER PLANTING. WATER & MAINTAIN AS PER STANDARD SPECIFICATIONS

SHRUB SHALL BE PLANTED SO THAT CROWN IS 2 INCHES ABOVE FINISHED GRADE AFTER SETTLEMENT

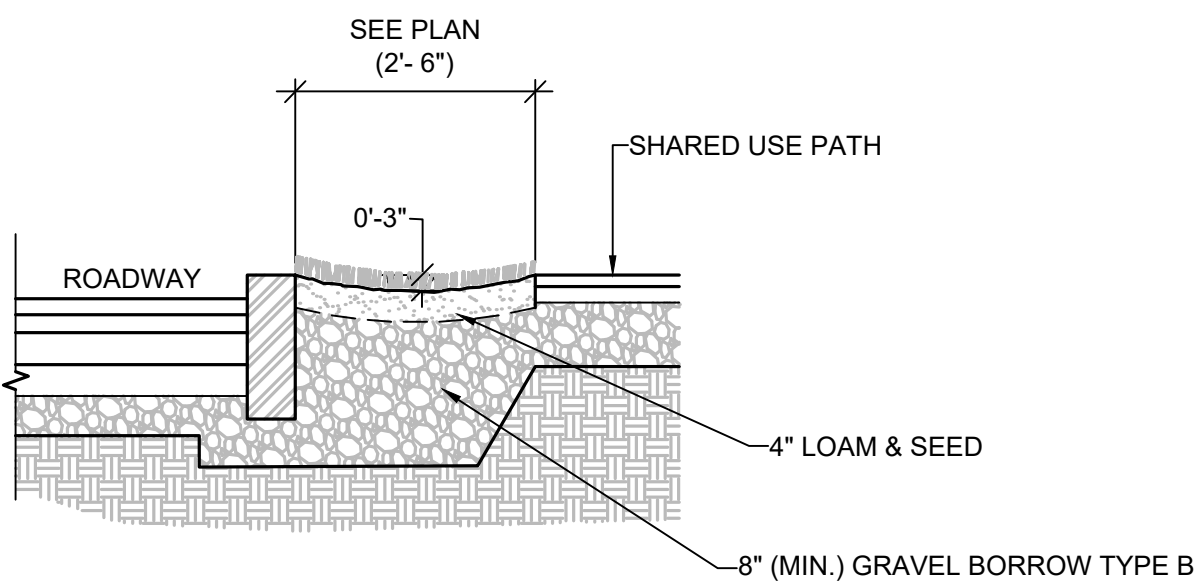
BACKFILL MIX PER SPECIAL PROVISIONS

LOOSE OR CRACKED ROOTBALLS WILL NOT BE ACCEPTED FOR PLANTING

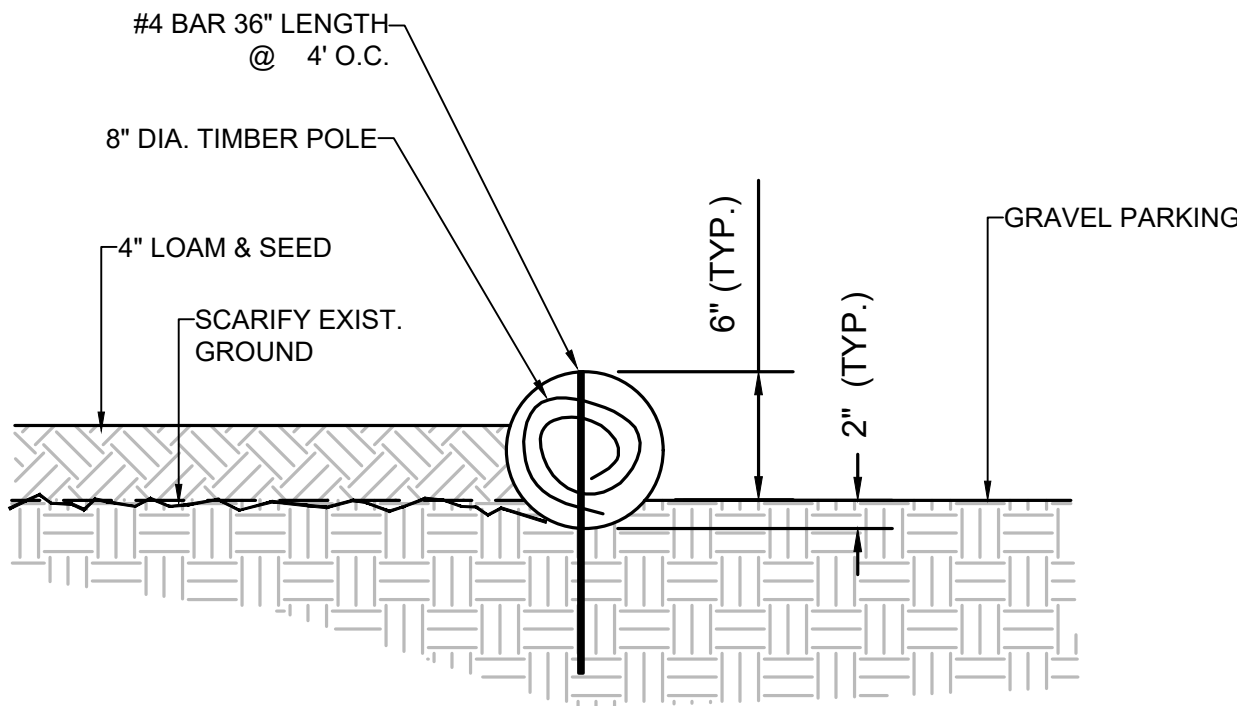
ADJUST SHRUBS SO THAT BOTTOM OF FOLIAGE IS EVENLY SPACED ABOVE THE GROUND



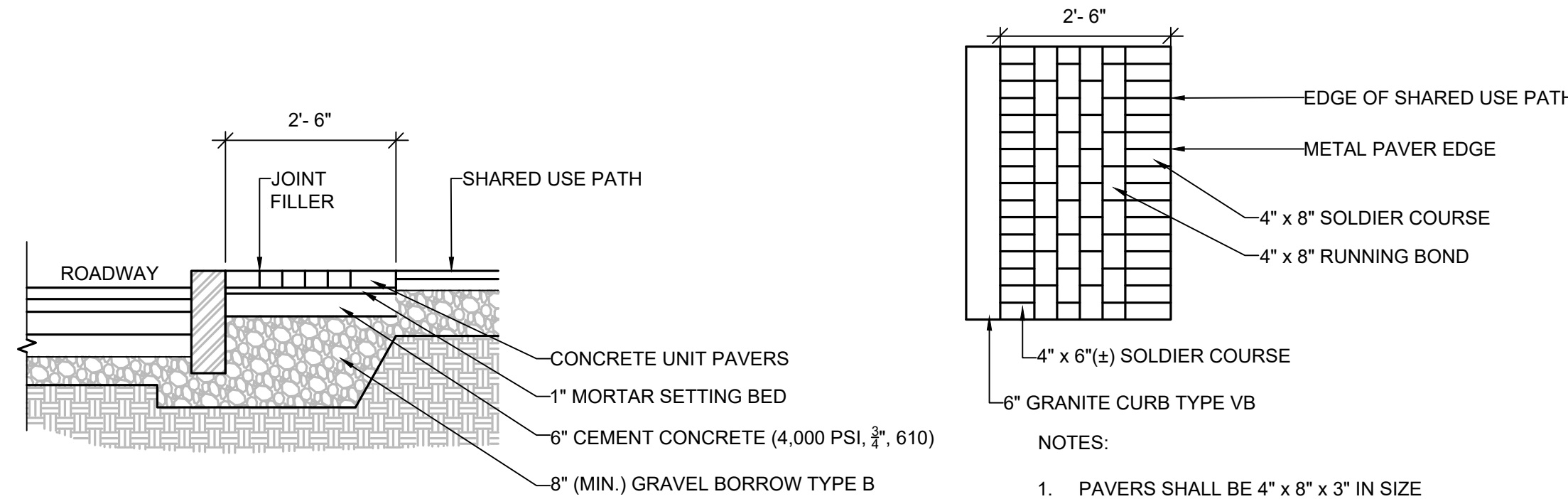
2 SHRUB PLANTING DETAIL
NOT TO SCALE



3 SHARED USE PATH GRASS STRIP
SCALE: 1/2"=1' 0"



4 TIMBER POLE WHEEL STOP
NOT TO SCALE



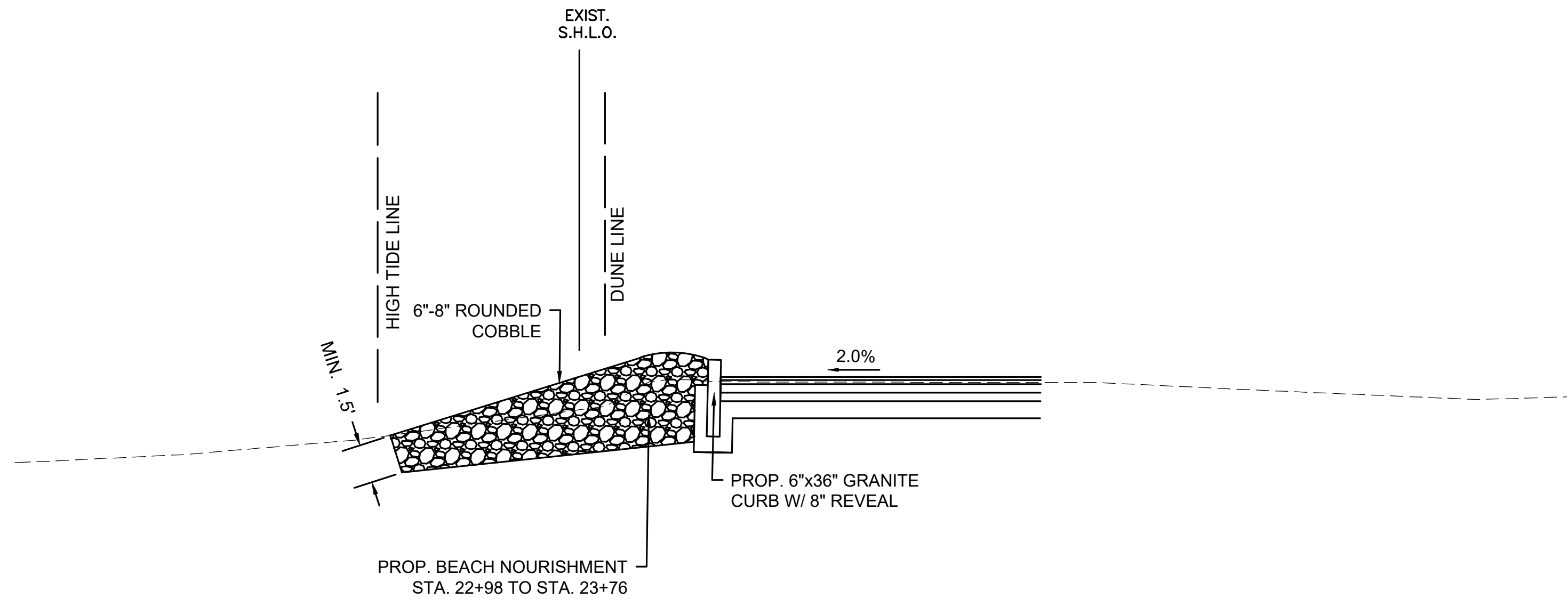
5 SHARED USE PATH CONCRETE UNIT PAVERS
SCALE: 1/2"=1' 0"

PLANT LIST											
QTY.	ID	BOTANICAL NAME	COMMON NAME	SIZE	COMMENT	SHEET 1	SHEET 2	SHEET 3	SHEET 4	SHEET 5	
TREES											
18	GT	GLEDITISIA TRIACANTHUS "INERMIS"	THORNLESS HONEYLOCUST "IMPERIAL"	2"-2.5" CALIPER		3	3	1	4	7	
3	PR	PINUS RIGIDA	PITCH PINE	4'-5' HT.		-	-	-	-	3	
SHRUBS											
33	CP	COMPTONIA PEREGRINA	SWEET FERN	1 GALLON	18" O.C STAGGERED	-	-	-	21	12	
81	JH	JUNIPERUS HORIZONTALIS "BAR HARBOR"	CREEPING JUNIPER	12"-15" SPD.	3' O.C. STAGGERED	-	-	16	15	50	
54	MP	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.		-	-	18	6	30	
10	PM	PRUNUS MARITIMA	BEACH PLUM	18"-24" HT.		-	-	10	-	-	
8	RV	ROSA VIRGINIANA	VIRGINIA ROSE	18"-24" HT.	3' O.C. STAGGERED	-	-	-	-	8	
GROUNDCOVERS & PERENNIALS											
7	PQ	PARTHENOCISSUS QUINQUEFOLIA	VIRGINIA CREEPER	1 GALLON	BASE OF WALL	-	-	-	7	-	
COASTAL BANK PLUGS											
5,620	AB	AMMOPHILIA BREVIGULATA	AMERICAN BEACHGRASS	CULMS	2 PER HOLE, 12" O.C STAGGERED	-	-	3,450	-	2,170	

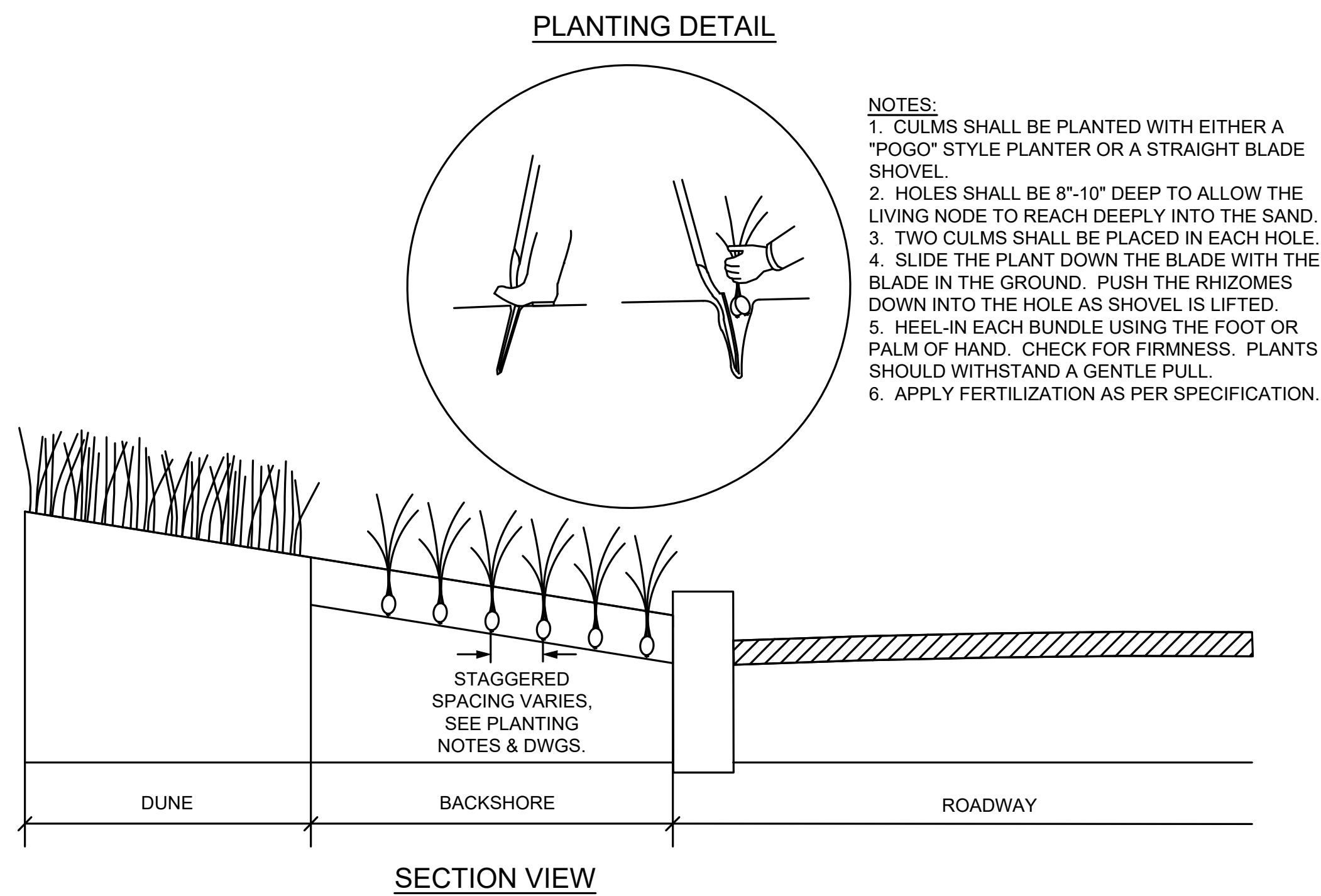
SEEDING SCHEDULE				
LEGEND	TYPE	SUB TYPE	ITEM	NOTES
STANDARD MIXES				
	LAWN AREA SEED MIX	LAWNS OR SLOPES AND SHOULDERS - M6.03.0	765.	FOR USE IN YARDS AND SHOULDERS FREQUENTLY MOWN. SEED OVER 4" LOAM.
NATIVE - SUN/PART SHADE UPLAND				
	NATIVE SEED MIX	ROADSIDE - FULL SUN	765.411	FOR ROADSIDE USE WHERE NO MOWING / INFREQUENT MOWING EXPECTED. SEED OVER 4" LOAM.

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	44	75
PROJECT FILE NO.		607411	

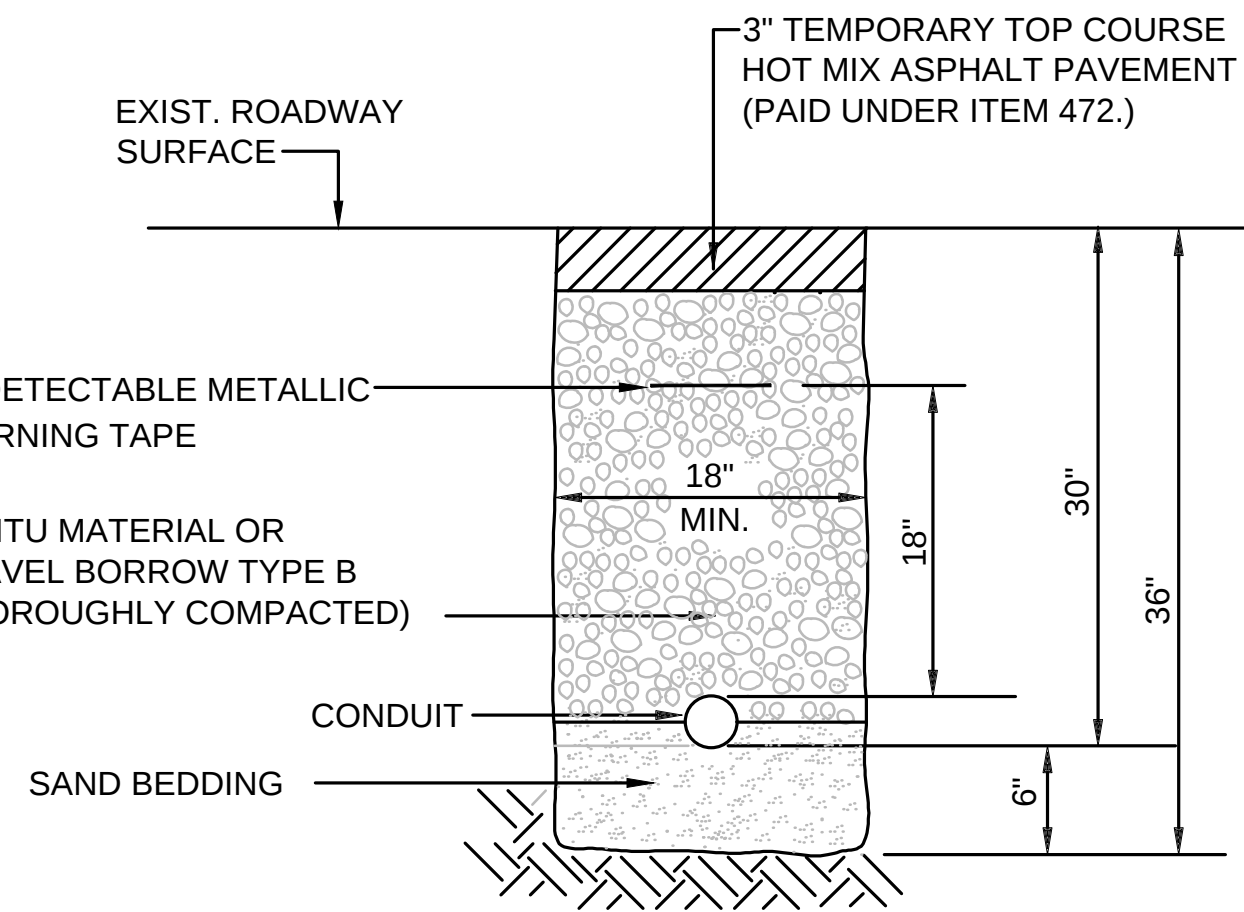
LANDSCAPING PLANS & DETAILS
DETAIL SHEET 2 OF 2



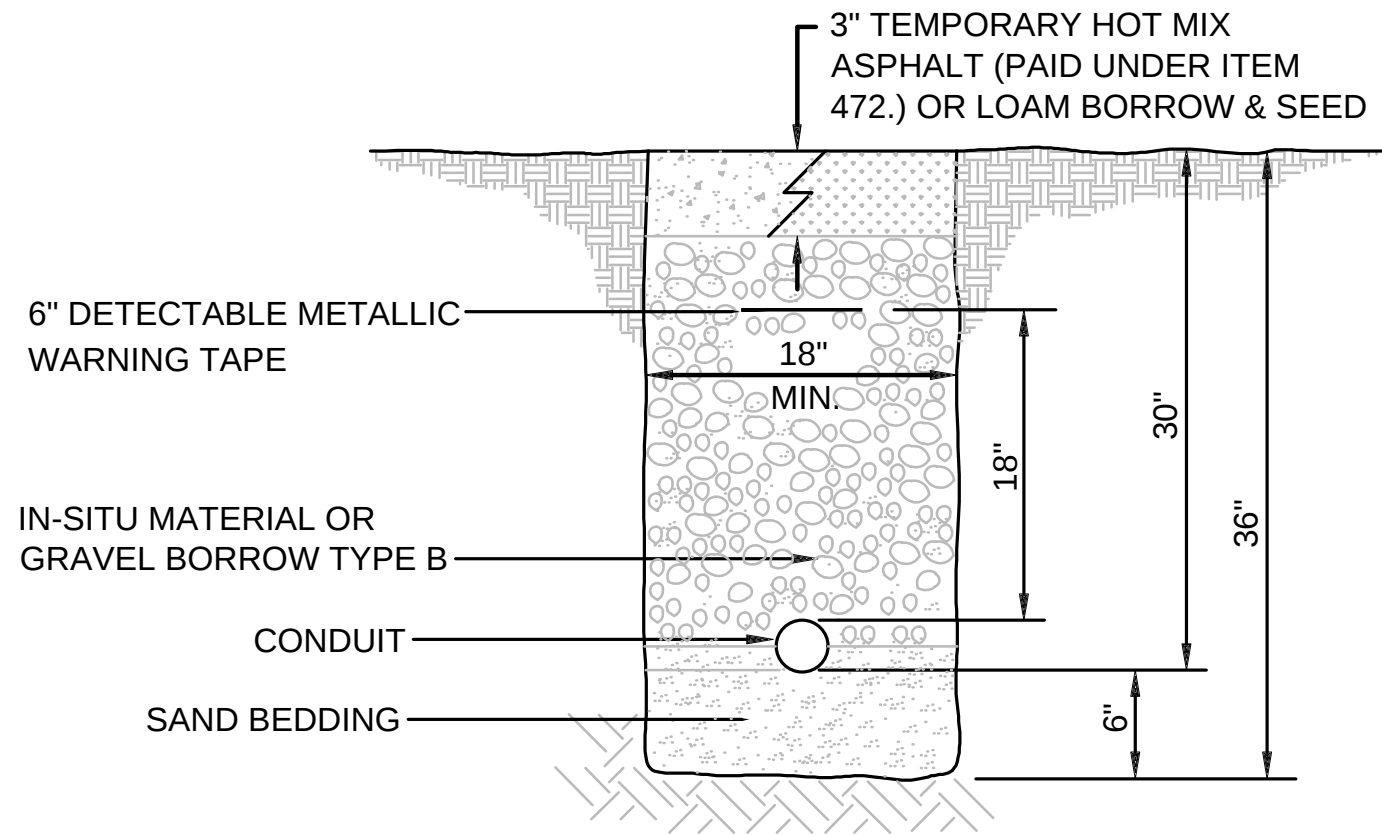
1 6"-8" ROUNDED COBBLE FOR BEACH NOURISHMENT
NOT TO SCALE



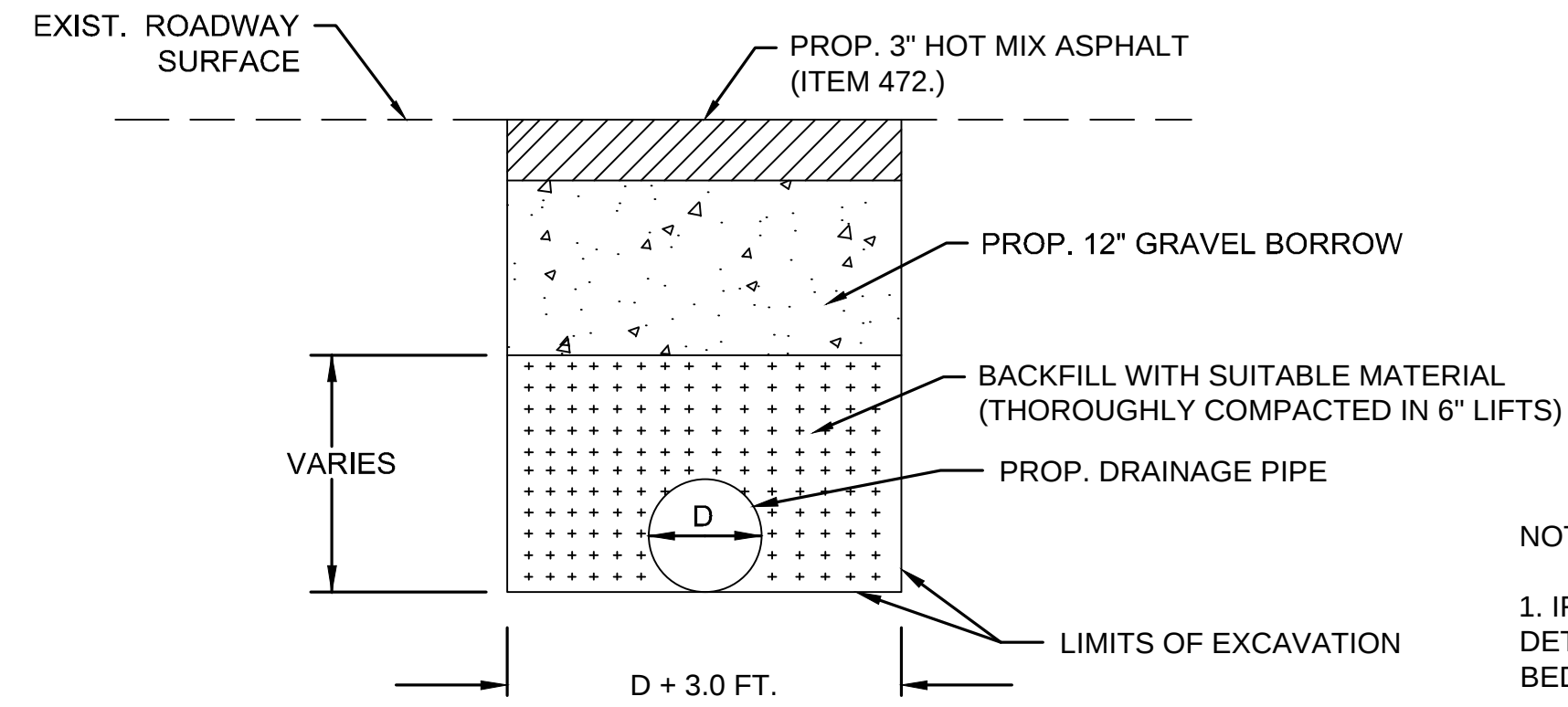
2 CULM PLANTING
NOT TO SCALE



CONDUIT TRENCH DETAIL
(IN AREAS OF FULL DEPTH PAVEMENT RECONSTRUCTION)
NOT TO SCALE



CONDUIT TRENCH DETAIL
(IN SIDEWALK, SHARED-USE PATH OR LANDSCAPE AREAS)
NOT TO SCALE

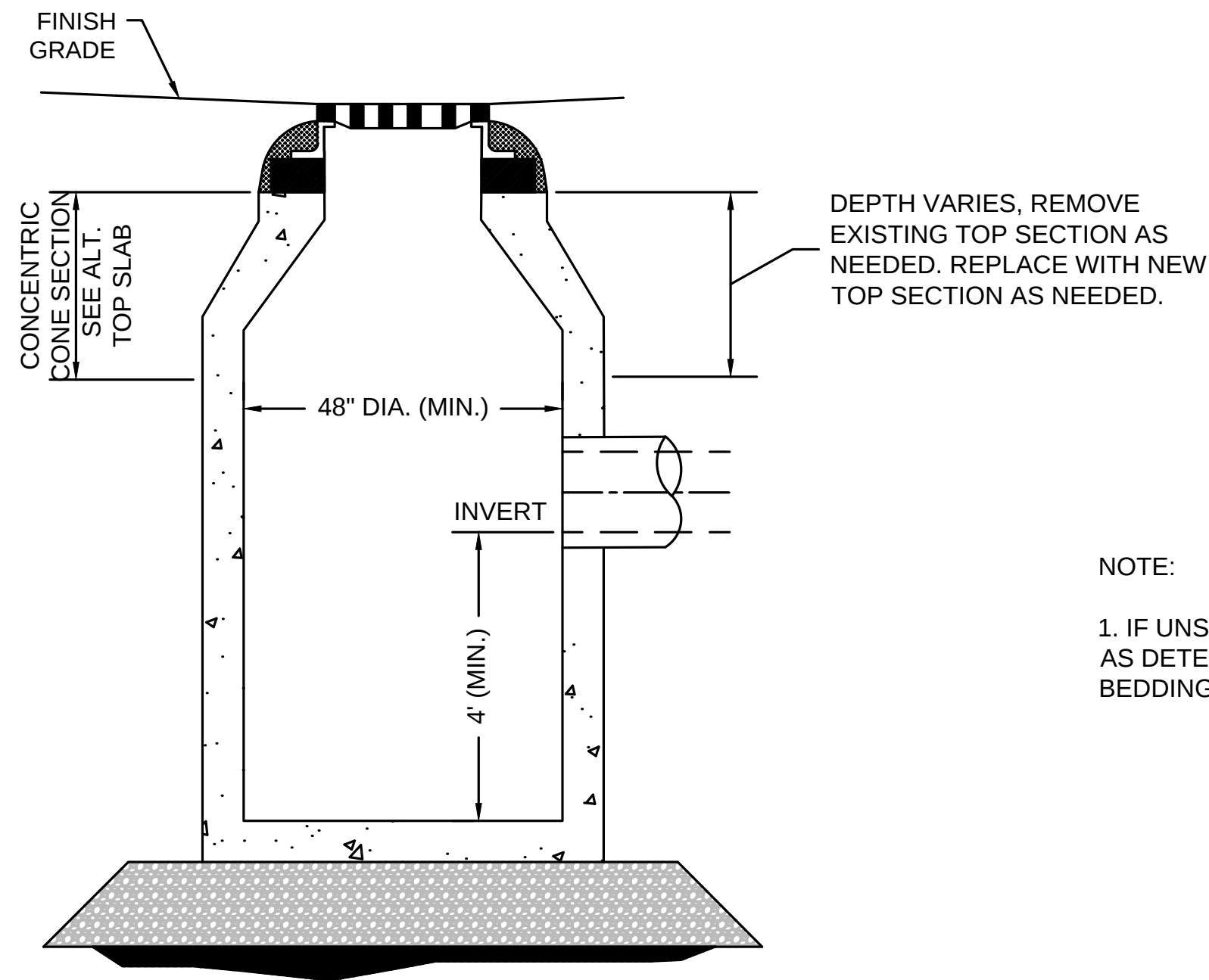
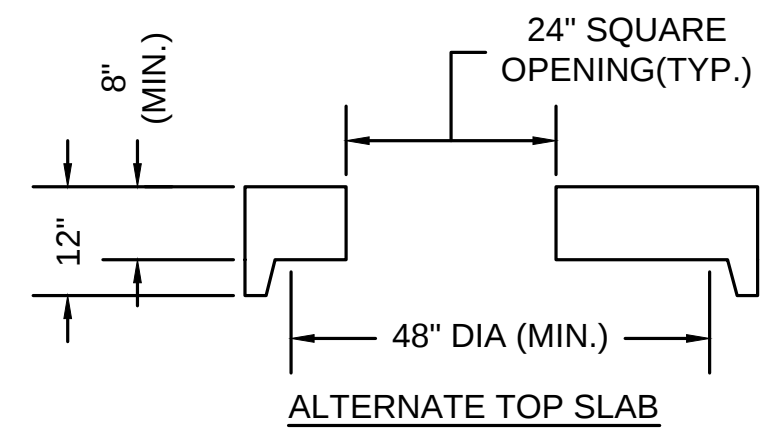
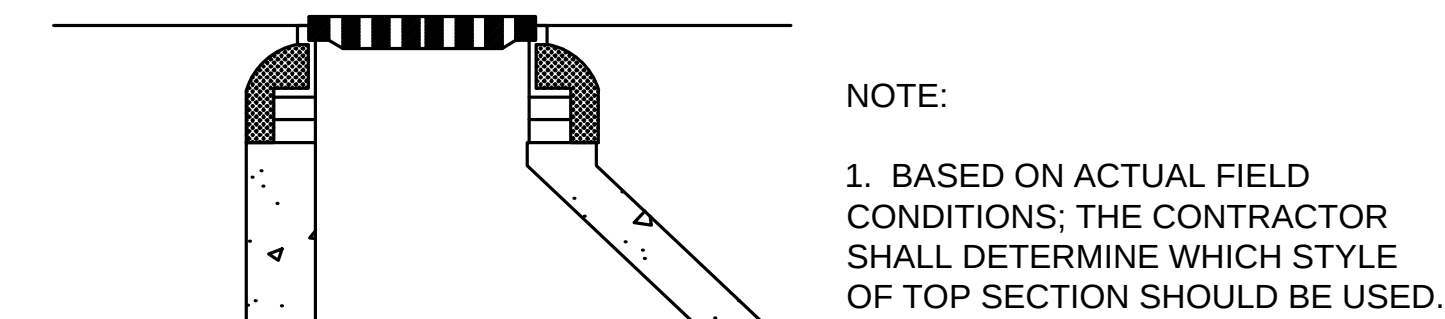


DRAINAGE TRENCH DETAIL
(IN AREAS OF FULL DEPTH PAVEMENT RECONSTRUCTION)
NOT TO SCALE

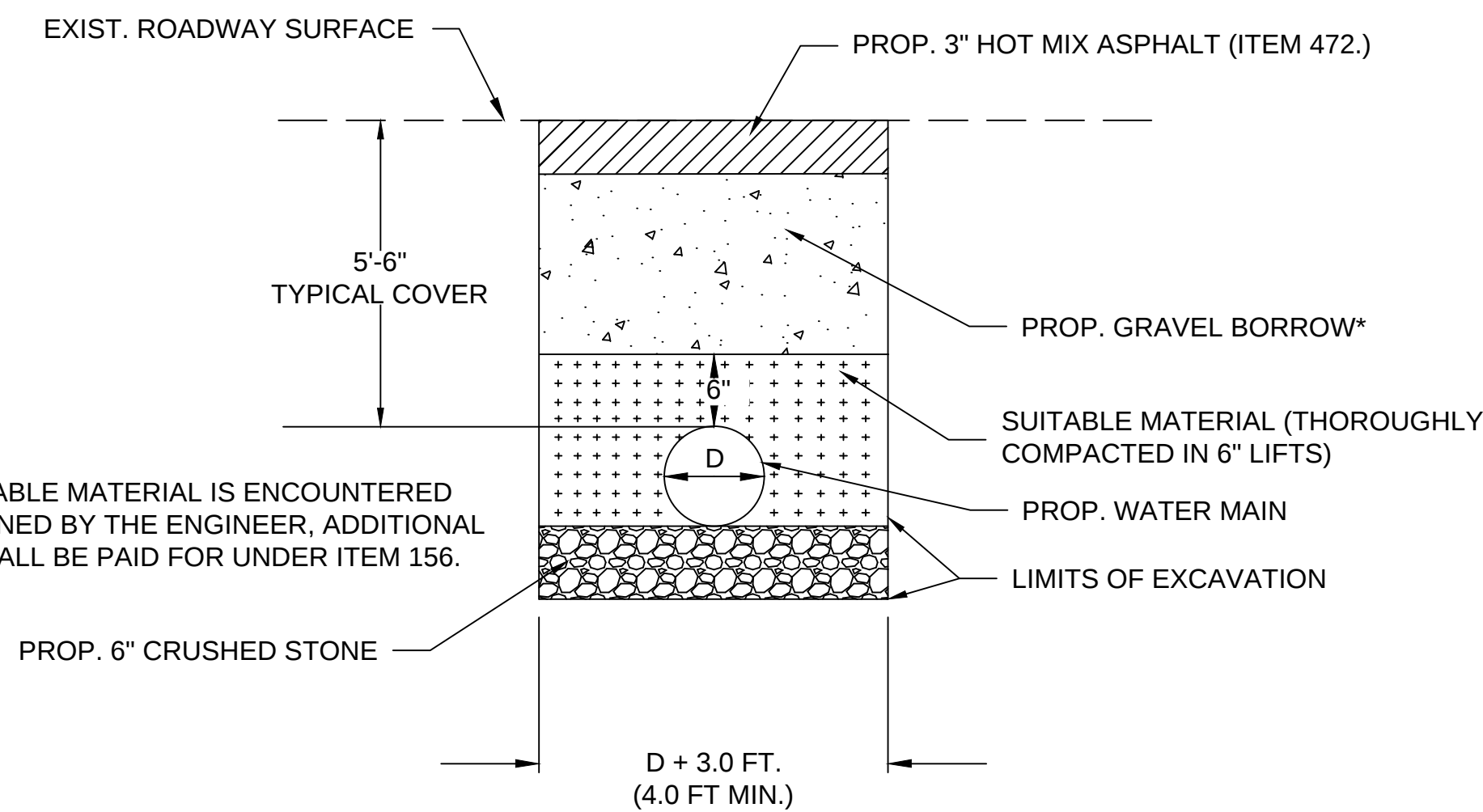
TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	45	75
PROJECT FILE NO.		607411	

CONSTRUCTION DETAILS

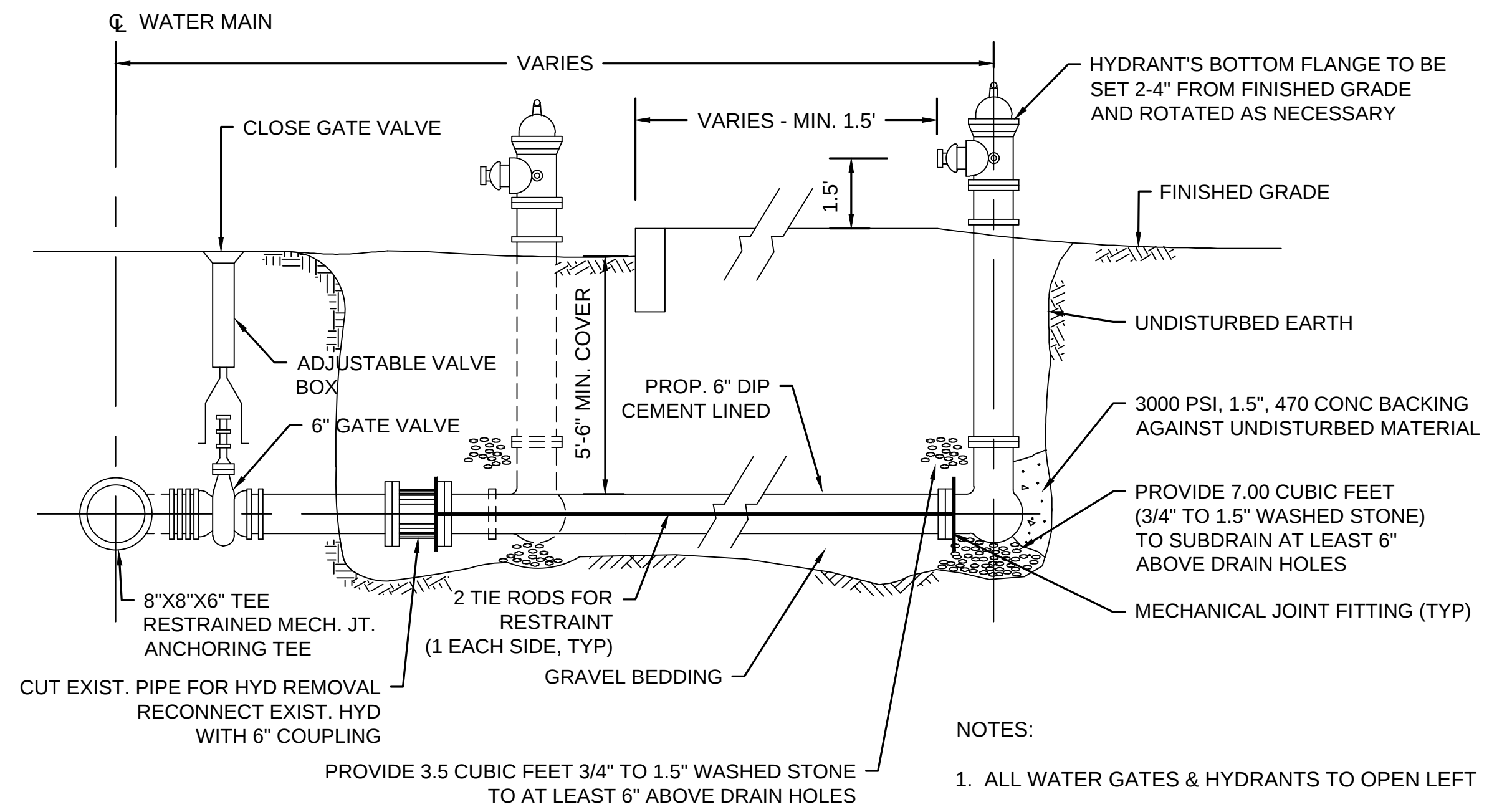
NOTE:
1. IF UNSUITABLE MATERIAL IS ENCOUNTERED AS DETERMINED BY THE ENGINEER, ADDITIONAL BEDDING SHALL BE PAID FOR UNDER ITEM 156.



CATCH BASIN
NOT TO SCALE



WATER MAIN TRENCH DETAIL
(IN AREAS OF FULL DEPTH PAVEMENT RECONSTRUCTION)
NOT TO SCALE

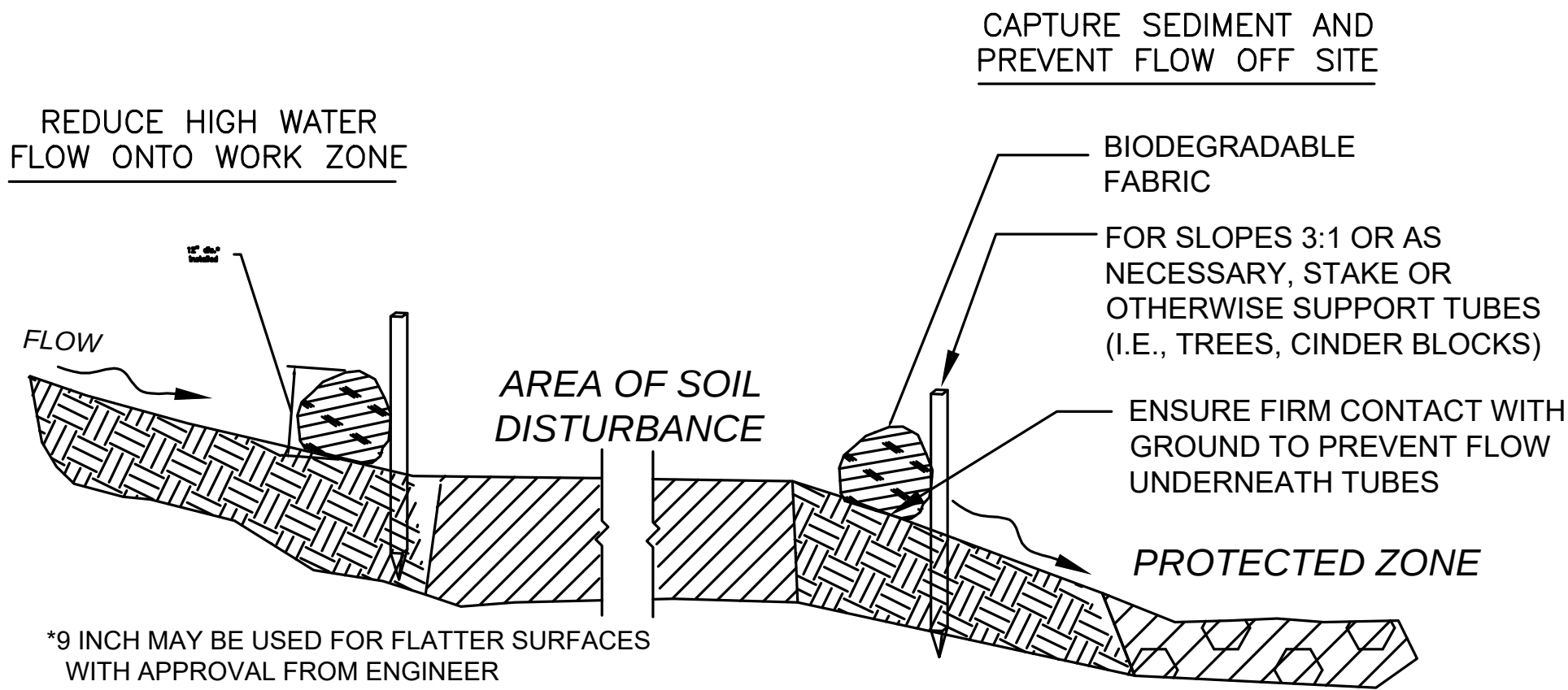


**HYDRANT INSTALLATION
HYDRANT REMOVED AND RESET**
NOT TO SCALE

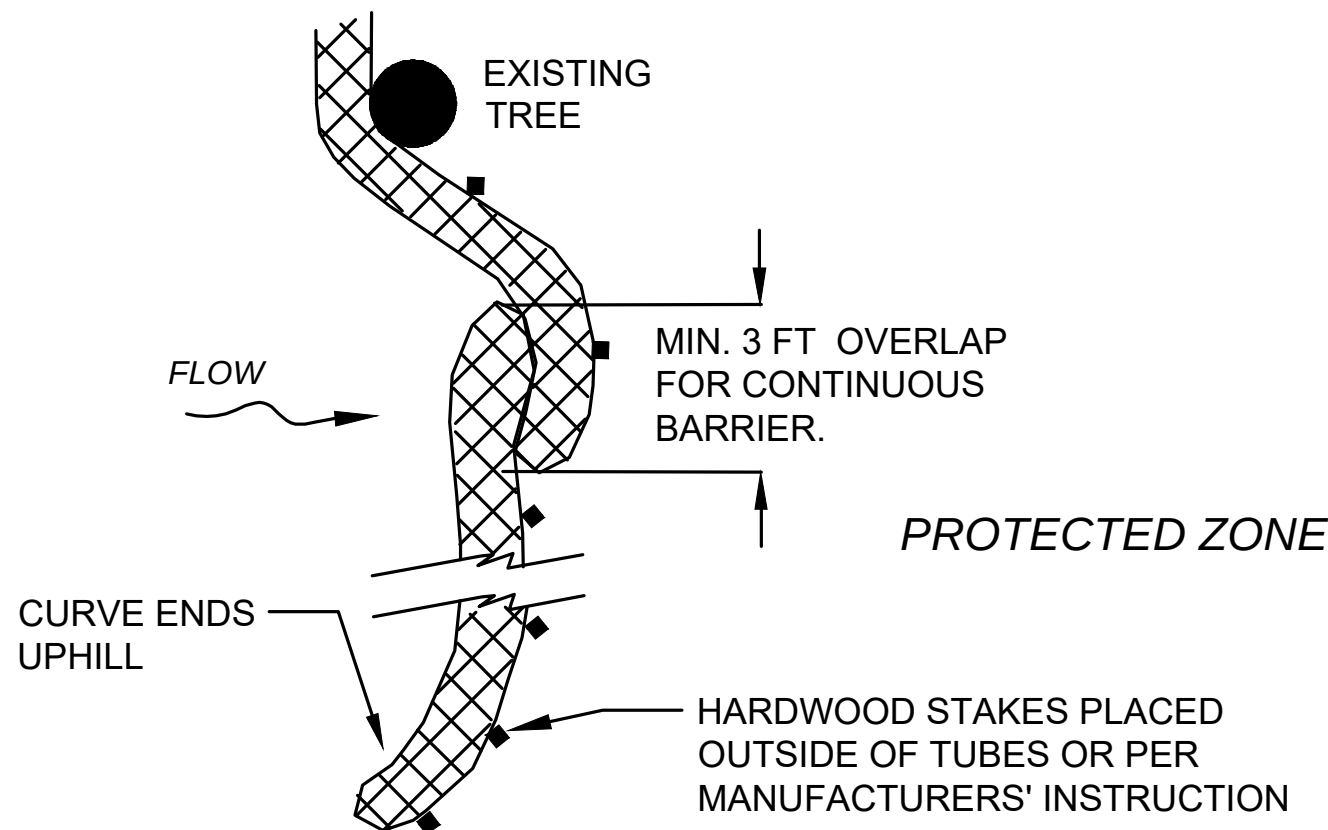
NOTES:
1. ALL WATER GATES & HYDRANTS TO OPEN LEFT
2. ALL MECHANICAL RESTRAINT DEVICES, STONE, GRAVEL, ETC. NECESSARY TO INSTALL OR REMOVE AND RESET HYDRANTS ARE INCIDENTAL TO ITEM 376.2.

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	46	75
PROJECT FILE NO.		607411	

CONSTRUCTION DETAILS



SECTION



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

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

PLAN VIEW

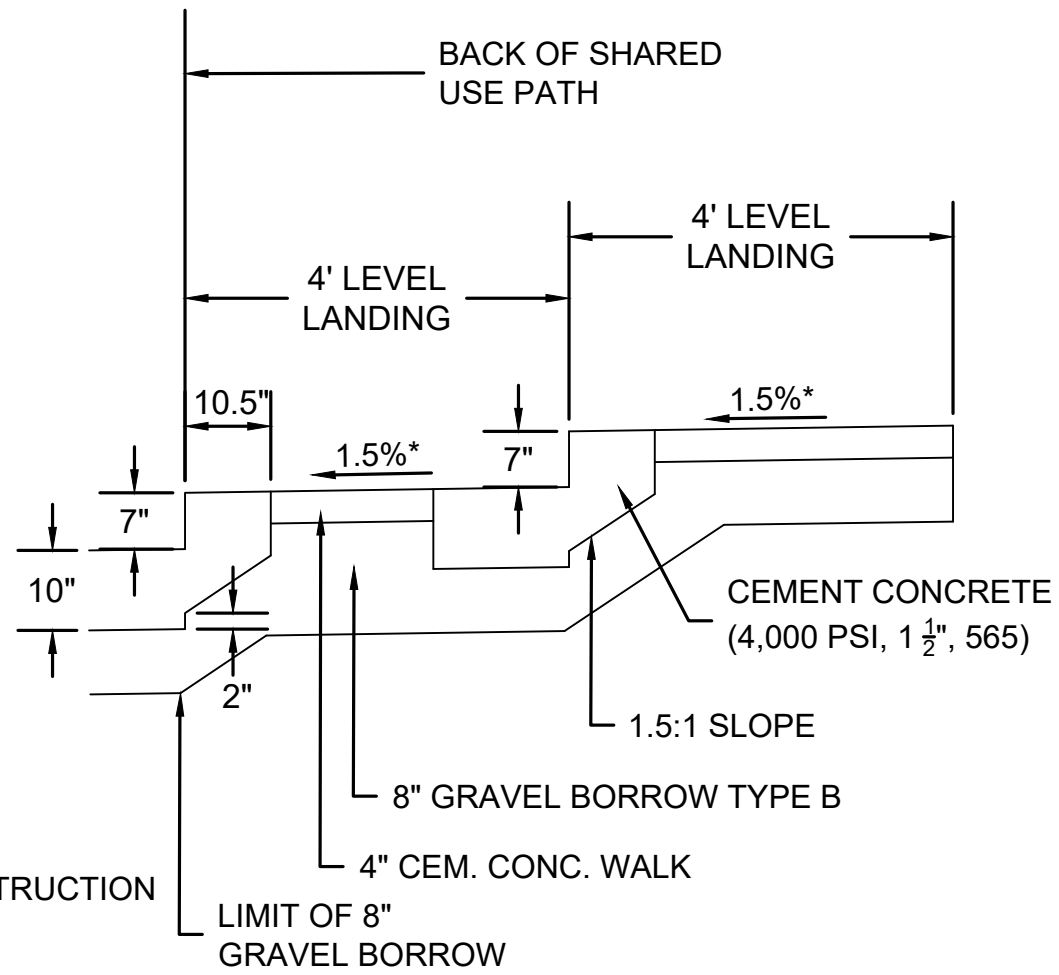
SEDIMENT BARRIER - COMPOST FILTER TUBE

NOT TO SCALE

NOTES:

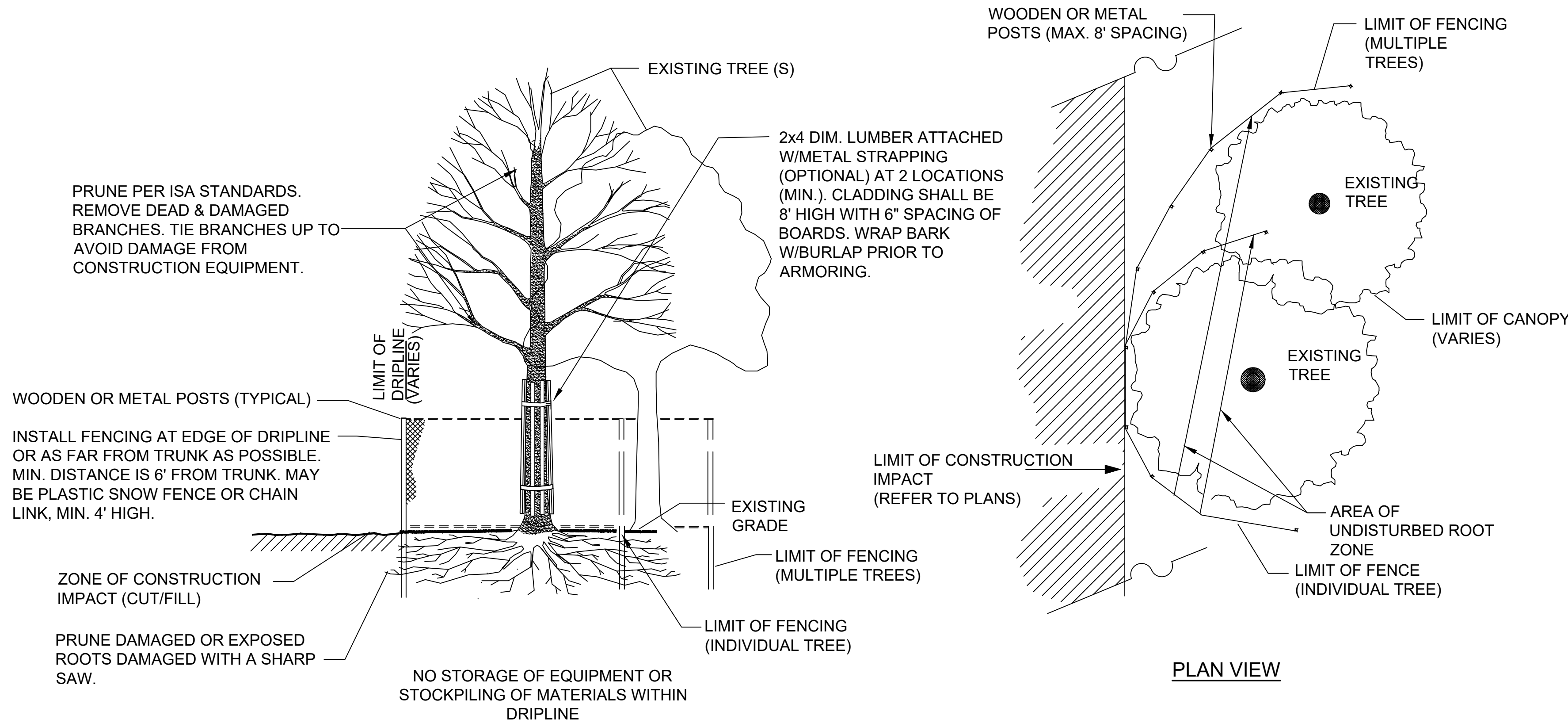
1. ALL CONCRETE DIMENSIONS SHOWN ARE MINIMUM EXCEPT RISERS AND TREADS WHICH HAVE 1/4" TOLERANCE.
2. FOR REINFORCING STEEL AND OTHER DETAILS SEE MASSDOT CONSTRUCTION DETAILS E 304.1.0 AND E 304.2.0 FOR DESIGN C.

* 0.5% ± TOLERANCE FOR CONSTRUCTION



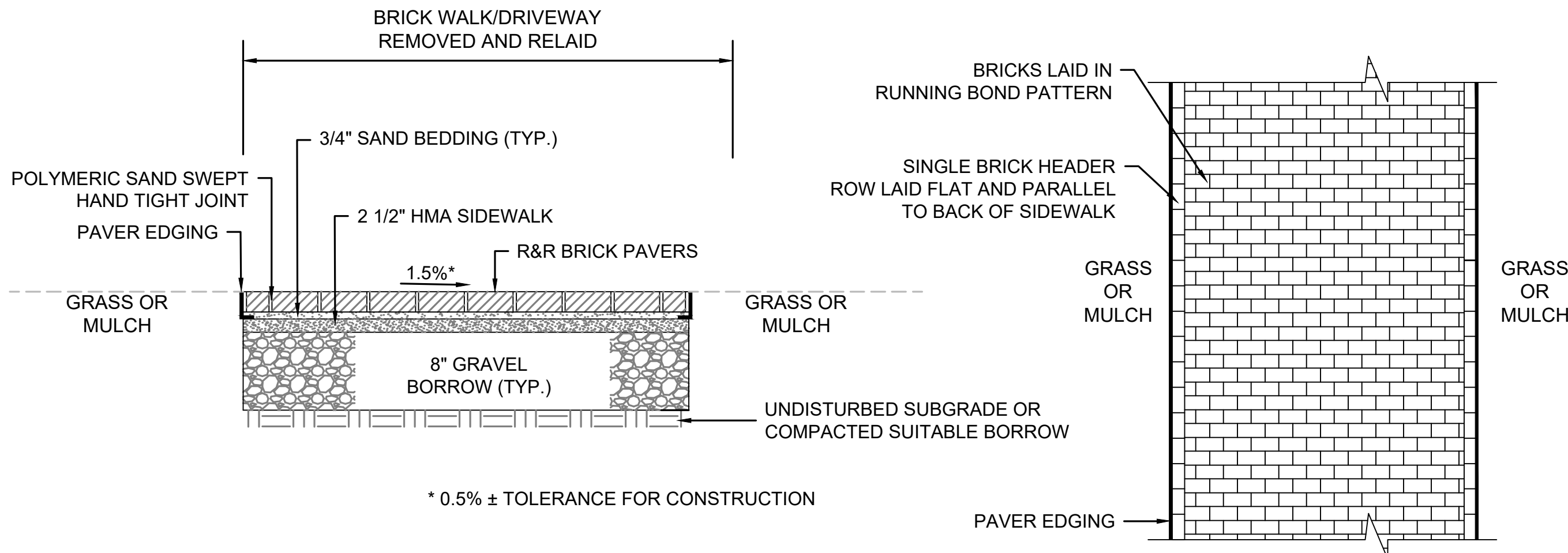
CEMENT CONCRETE STEPS AND WALK STA. 18+35 RT

NOT TO SCALE



TREE PROTECTION - EXISTING TREES

NOT TO SCALE

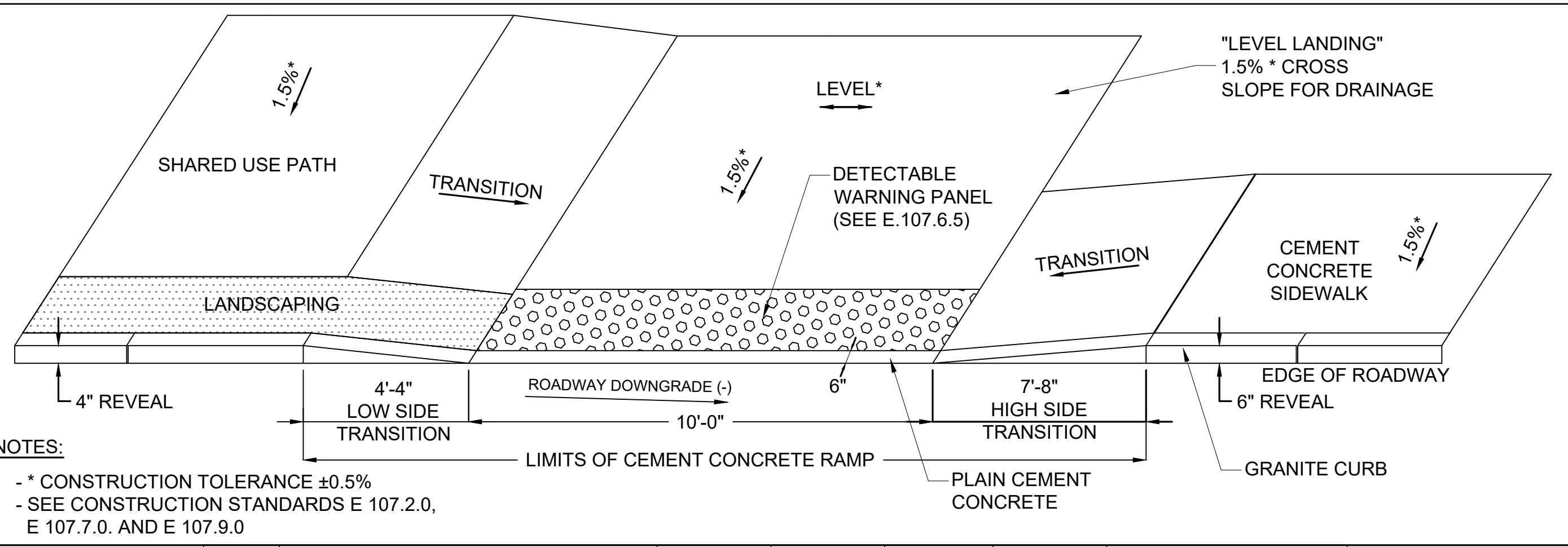


SECTION

PLAN

BRICK WALK/DRIVEWAY REMOVED AND RELAI

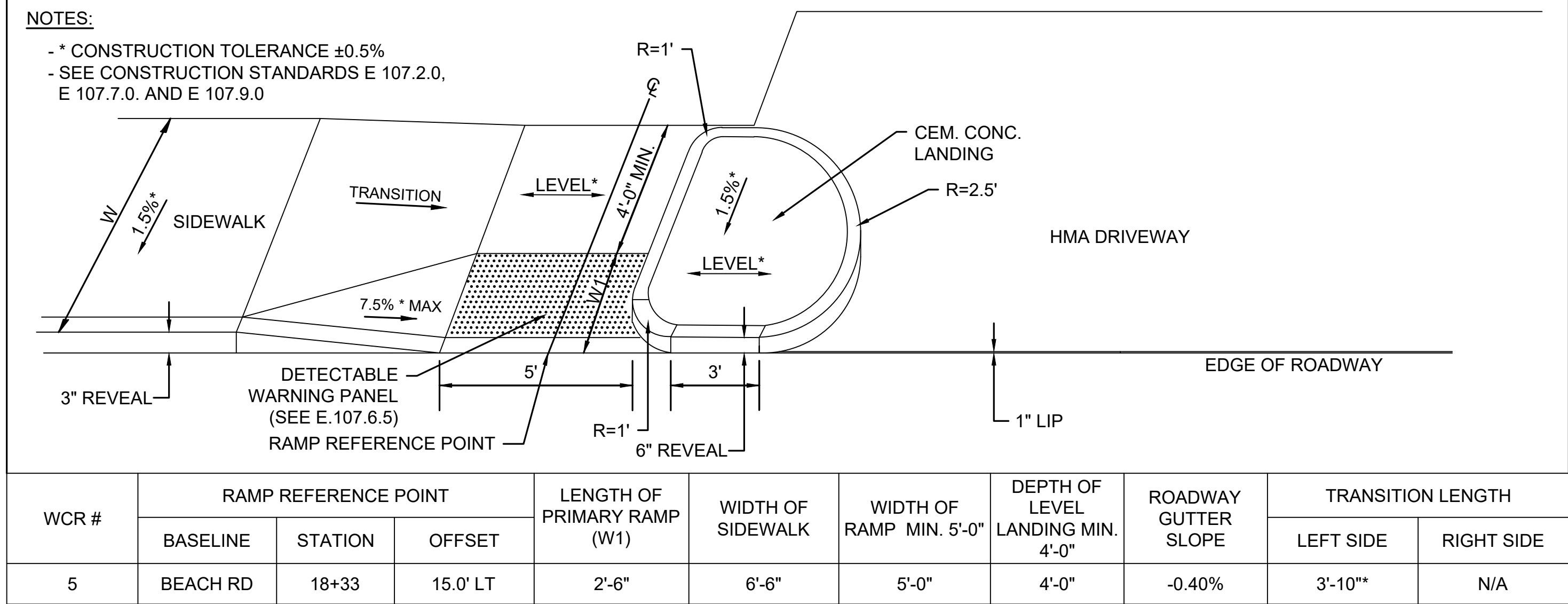
NOT TO SCALE



WCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF SHARED USE PATH	WIDTH OF RAMP MIN. 5'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET					LEFT SIDE	RIGHT SIDE
6	BEACH RD	18+33	15.0' RT	6'-6"	8'-0"	10'-0"	0.40%	4'-4"	7'-8"

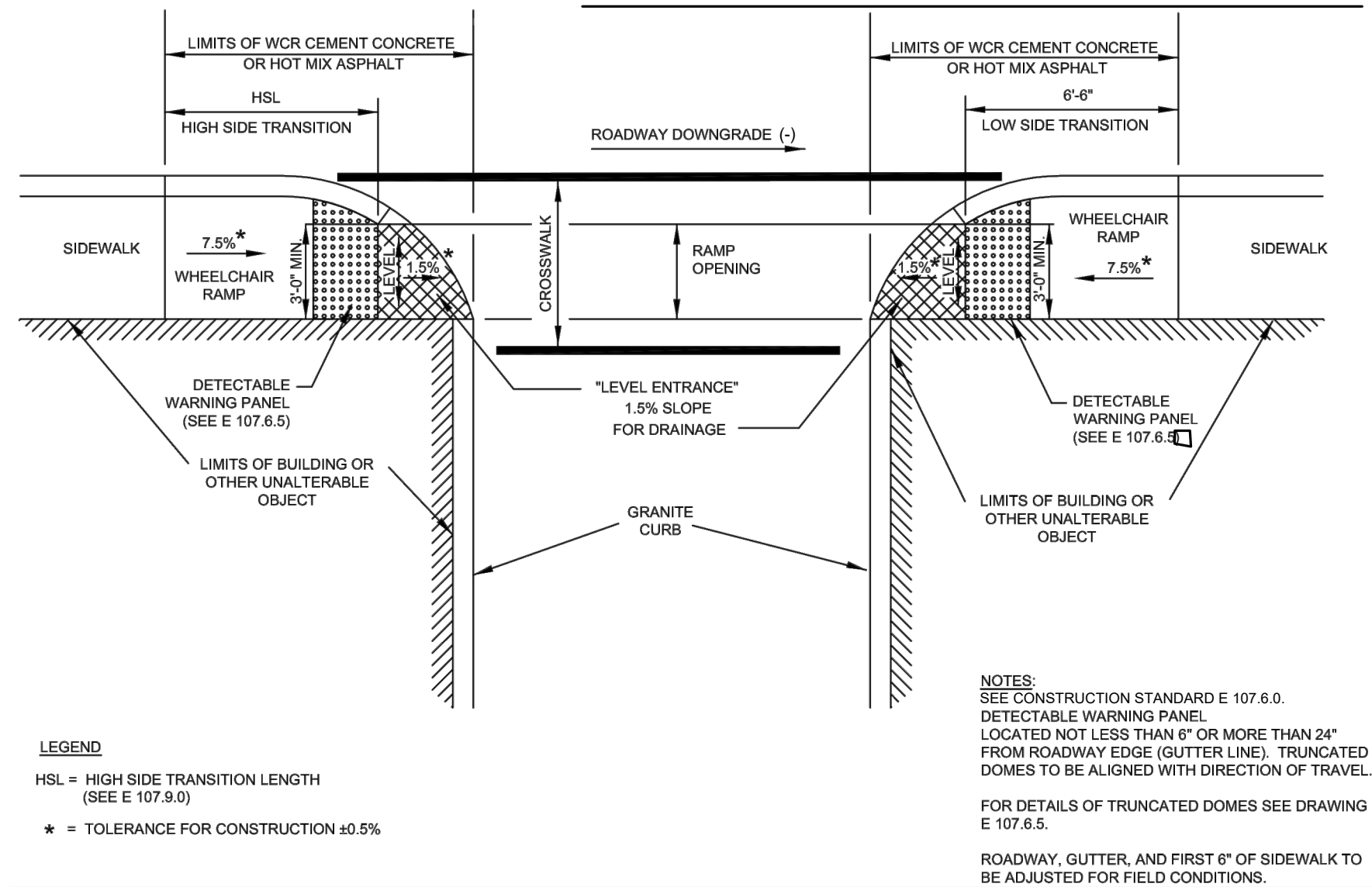
NOTE: ** 4" CURB REVEAL

WHEELCHAIR RAMP ON SIDEWALK AND SHARED USE PATH WITH DETECTABLE WARNING PANEL



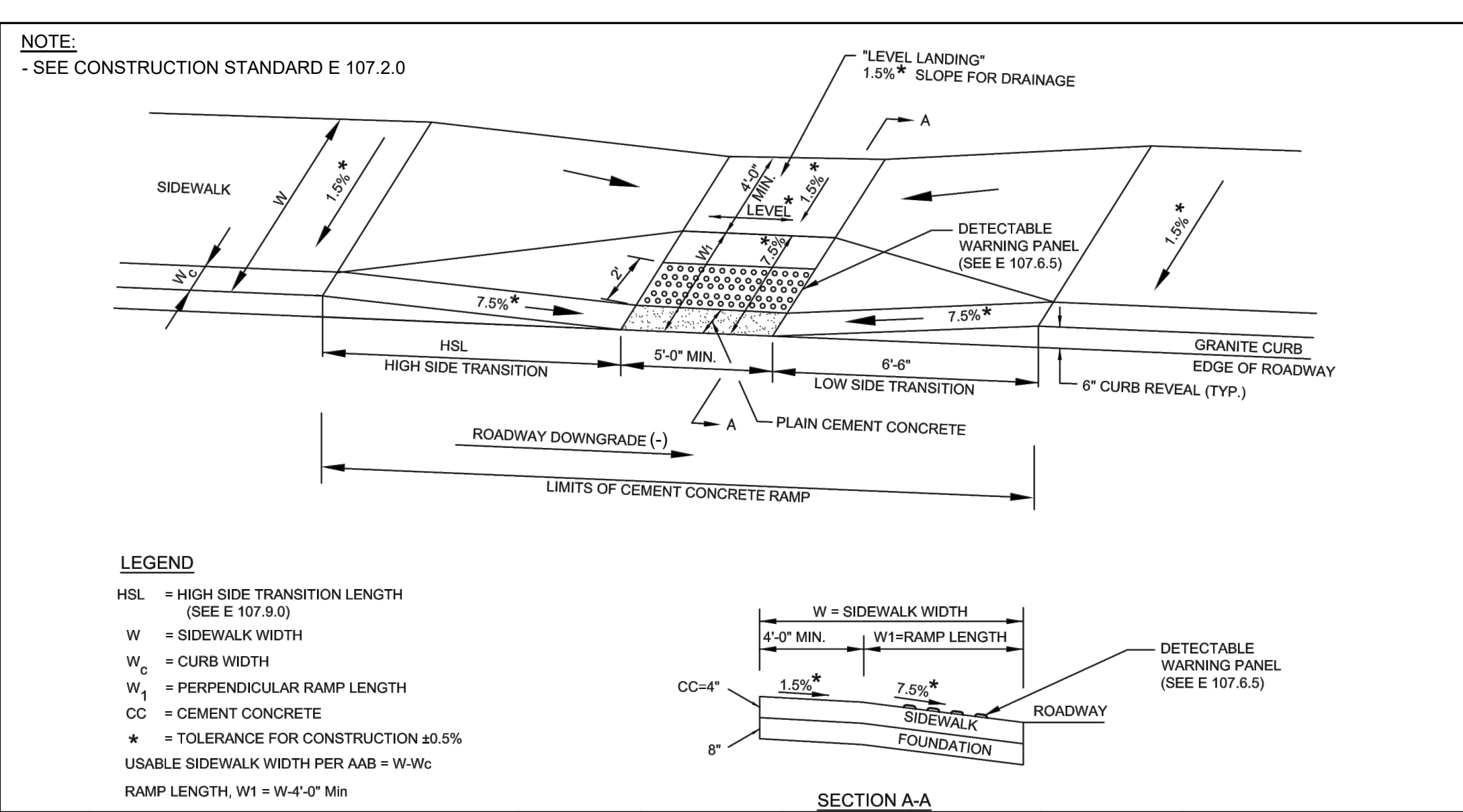
NOTE: * 3" CURB REVEAL

WHEELCHAIR RAMP AND DRIVEWAY SEPARATED BY CEMENT CONCRETE ISLAND



WCR #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK	WIDTH OF OPENING	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***
	BASELINE	STATION	OFFSET				
10	BEACH RD	31+62	16.50' LT	5'-6"	3'-0"	0.38%	7'-8"

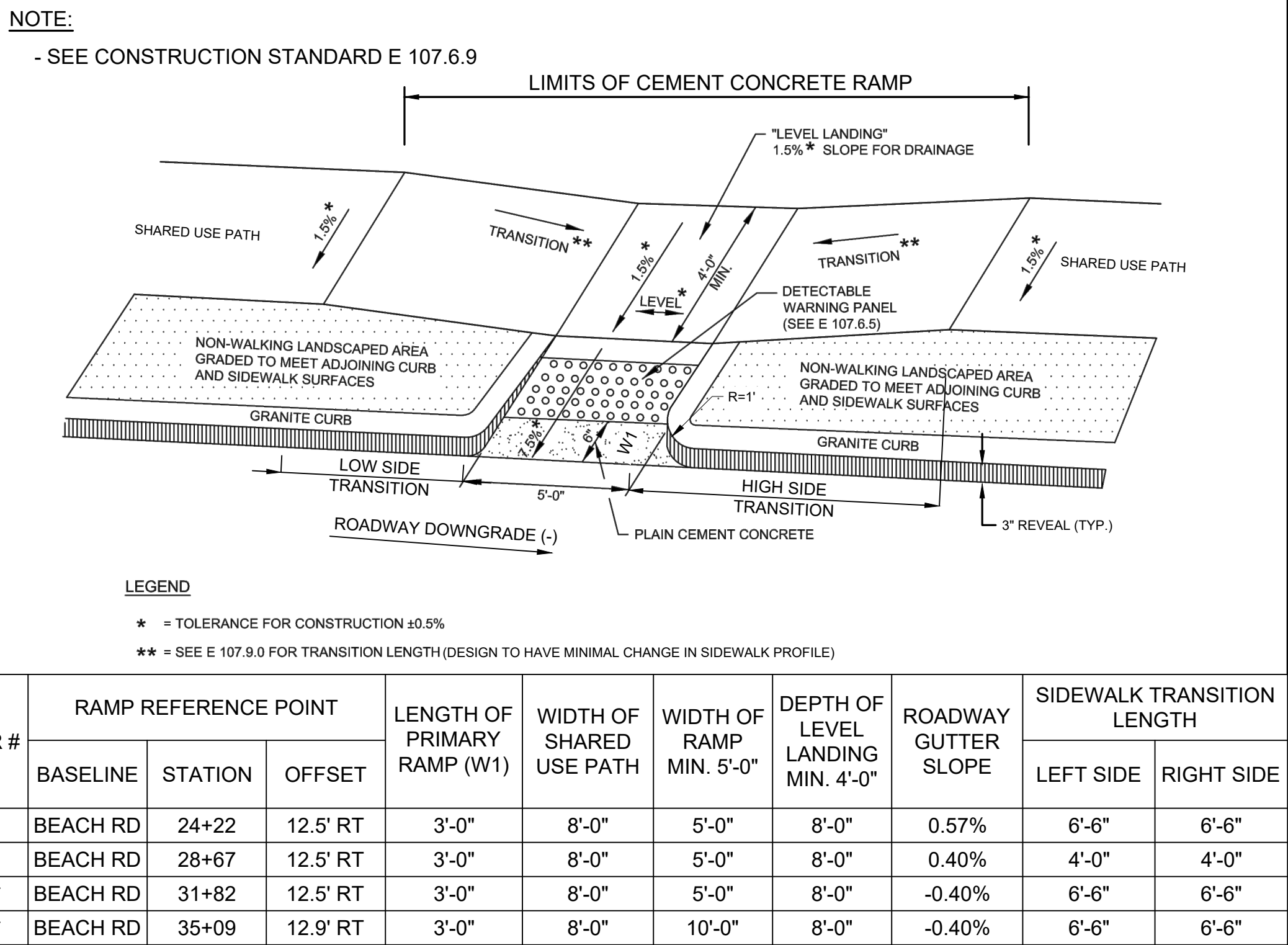
WHEELCHAIR RAMP FOR ONE CONTINUOUS DIRECTION OF PEDESTRIAN TRAVEL



WCR #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'-0"	DEPTH OF LEVEL LANDING MIN. 4'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET						LEFT SIDE	RIGHT SIDE
1	BEACH RD	10+77	15.0' LT	2'-6"	6'-6"	5'-0"	4'-0"	0.75%	4'-4"	7'-8"
2	BEACH RD	10+77	15.0' RT	2'-6"	6'-6"	5'-0"	4'-0"	-0.75%	7'-8"	6'-6"
3	BEACH RD	15+52	15.0' RT	2'-6"	6'-6"	5'-0"	4'-0"	-0.62%	3'-10"	6'-6"
4	BEACH RD	15+52	15.0' LT	2'-6"	6'-6"	5'-0"	4'-0"	0.62%	3'-3"	7'-8"

NOTE: * 3" CURB REVEAL; ** 4" CURB REVEAL

WHEELCHAIR RAMP FOR LESS THAN 12'-4" SIDEWALK



WCR #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SHARED USE PATH	WIDTH OF RAMP MIN. 5'-0"	DEPTH OF LEVEL LANDING MIN. 4'-0"	ROADWAY GUTTER SLOPE	SIDEWALK TRANSITION LENGTH	
	BASELINE	STATION	OFFSET						LEFT SIDE	RIGHT SIDE
8*	BEACH RD	24+22	12.5' RT	3'-0"	8'-0"	5'-0"	8'-0"	0.57%	6'-6"	6'-6"
9*	BEACH RD	28+67	12.5' RT	3'-0"	8'-0"	5'-0"	8'-0"	0.40%	4'-0"	4'-0"
12*	BEACH RD	31+82	12.5' RT	3'-0"	8'-0"	5'-0"	8'-0"	-0.40%	6'-6"	6'-6"
13*	BEACH RD	35+09	12.9' RT	3'-0"	8'-0"	10'-0"	8'-0"	-0.40%	6'-6"	6'-6"

NOTE: * 3" CURB REVEAL

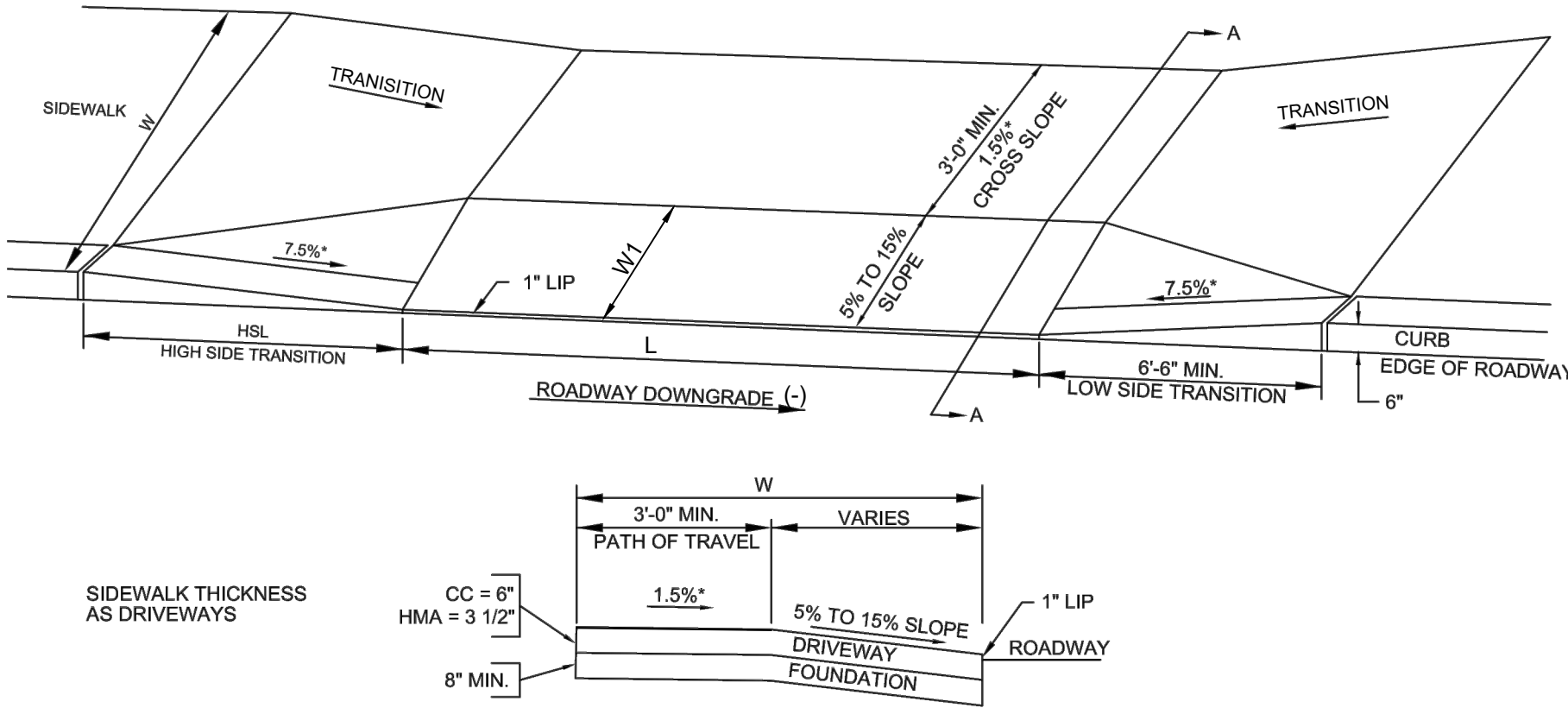
WHEELCHAIR RAMP WITH LANDSCAPE STRIP

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	47	75
PROJECT FILE NO.		607411	
WHEELCHAIR RAMP/DRIVEWAY DETAILS			

NOTE:

* BASED ON A DESIGN SLOPE OF 7.5% AND A REVEAL OF 6".

- SEE CONSTRUCTION STANDARD E 107.9.0



LEGEND

HSL = HIGH SIDE TRANSITION LENGTH. SEE E 107.9.0
W = SIDEWALK WIDTH
* = TOLERANCE FOR CONSTRUCTION ±0.5%
CC = CEMENT CONCRETE
HMA = HOT MIX ASPHALT

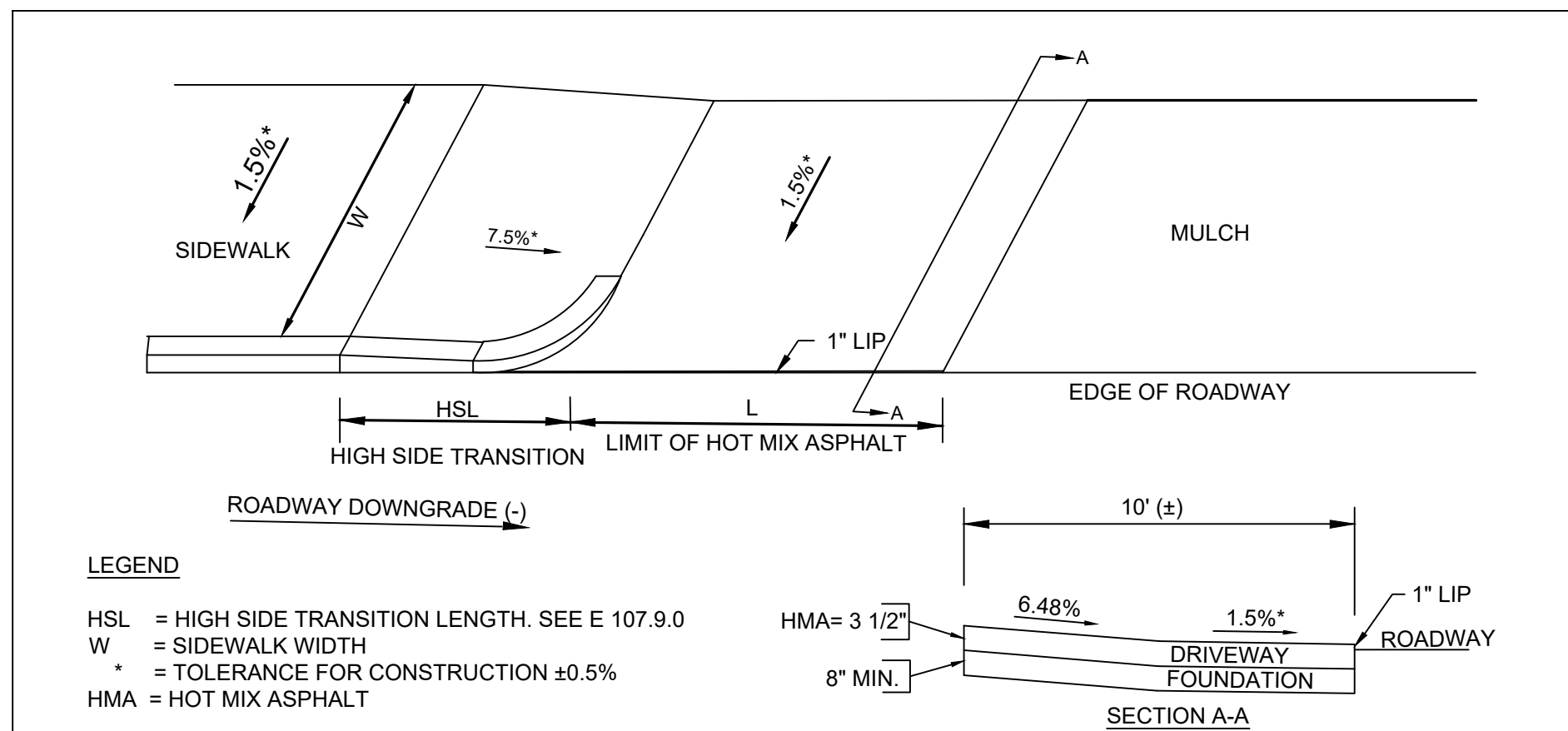
NOTES:

- SEE CONSTRUCTION STANDARD E 107.7.0

DWY #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK (W)	WIDTH OF DRIVEWAY (L)	DEPTH OF TRAVEL PATH MIN. 3'-0"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET						LEFT SIDE	RIGHT SIDE
1	BEACH RD	11+64	15.0' RT	2'-0"	6'-6"	10'-6"	4'-6"	-0.01%	7'-8"	4'-0"
2	BEACH RD	12+11	15.0' RT	2'-0"	6'-6"	24'-0"	4'-6"	0.19%	6'-6"	7'-8"
3	BEACH RD	12+32	15.0' LT	2'-0"	6'-6"	15'-0"	4'-6"	-0.62%	7'-8"	6'-6"
4	BEACH RD	12+77	15.0' LT	2'-0"	6'-6"	15'-0"	4'-6"	-0.44%	7'-8"	6'-6"
5	BEACH RD	13+01	15.0' RT	2'-0"	6'-6"	24'-0"	4'-6"	0.38%	6'-6"	7'-8"
6	BEACH RD	13+61	15.0' RT	2'-0"	6'-6"	21'-0"	4'-6"	-0.08%	7'-8"	7'-8"
7	BEACH RD	13+81	15.0' LT	2'-0"	6'-6"	24'-0"	4'-6"	0.25%	6'-6"	3'-10"
8	BEACH RD	14+13	15.0' LT	2'-0"	6'-6"	15'-0"	4'-6"	0.59%	3'-3"	7'-8"
9	BEACH RD	14+49	15.0' RT	2'-0"	6'-6"	24'-0"	4'-6"	-0.62%	7'-8"	6'-6"
10	BEACH RD	14+71	15.0' LT	2'-0"	6'-6"	15'-0"	4'-6"	0.62%	6'-6"	7'-8"
11	BEACH RD	15+01	15.0' RT	2'-0"	6'-6"	15'-0"	4'-6"	-0.57%	7'-8"	6'-6"
12	BEACH RD	15+22	15.0' LT	2'-0"	6'-6"	24'-0"	4'-6"	0.62%	6'-6"	3'-10"
14	BEACH RD	15+88	15.0' LT	2'-0"	6'-6"	24'-0"	4'-6"	0.62%	6'-6"	7'-8"
15	BEACH RD	16+49	15.0' RT	2'-0"	6'-6"	24'-0"	4'-6"	-0.46%	7'-8"	6'-6"
16	BEACH RD	16+80	15.0' LT	2'-0"	6'-6"	24'-0"	4'-6"	0.33%	6'-6"	7'-8"
17	BEACH RD	17+76	15.0' RT	2'-0"	6'-6"	22'-0"	4'-6"	-0.06%	6'-6"	6'-6"
18	BEACH RD	18+05	15.0' LT	2'-0"	6'-6"	24'-0"	4'-6"	-0.22%	3'-10"	3'-3"
34	BEACH RD	29+26	12.5' RT	3'-0"	11'-0"	85'-0"	8'-0"	0.40%	6'-6"	6'-6"

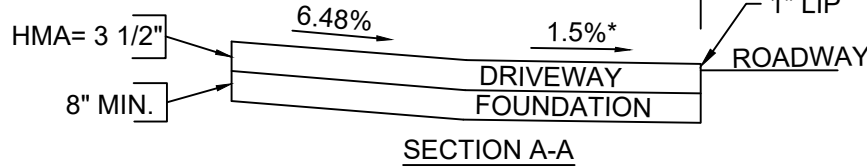
NOTE: * 3" CURB REVEAL; ** 4" REVEAL

SIDEWALK THROUGH DRIVEWAYS WITHOUT CURB RETURNS



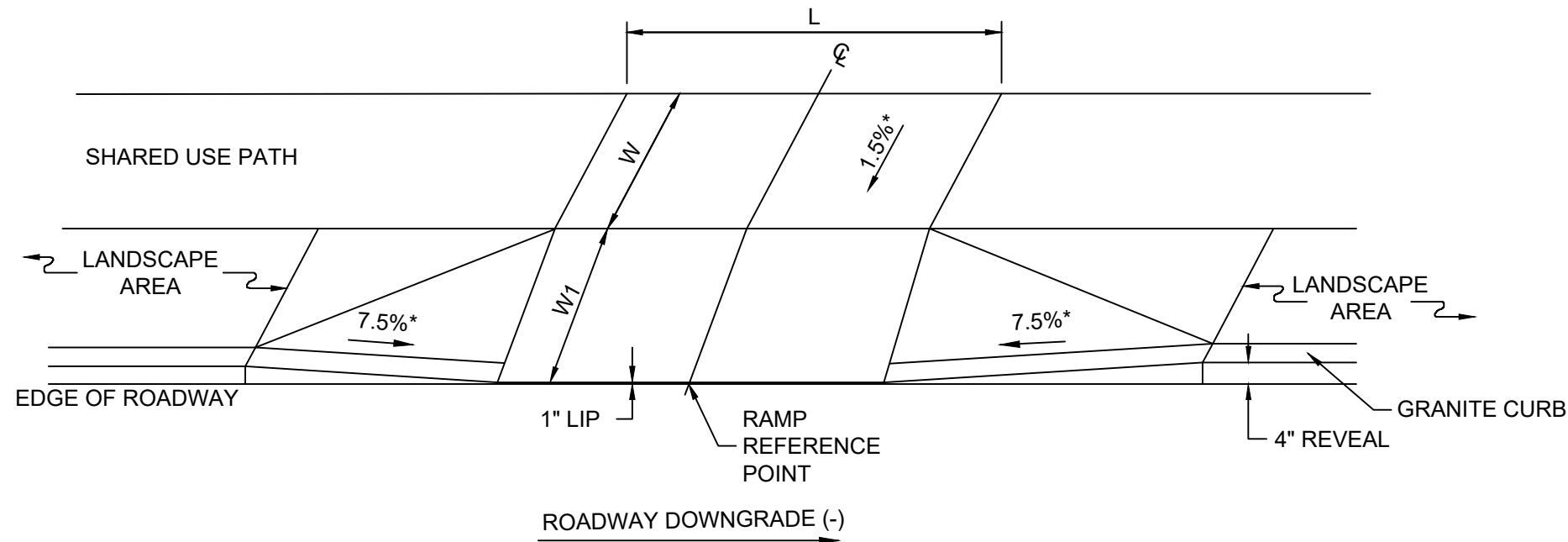
LEGEND

HSL = HIGH SIDE TRANSITION LENGTH. SEE E 107.9.0
W = SIDEWALK WIDTH
* = TOLERANCE FOR CONSTRUCTION ±0.5%
HMA = HOT MIX ASPHALT



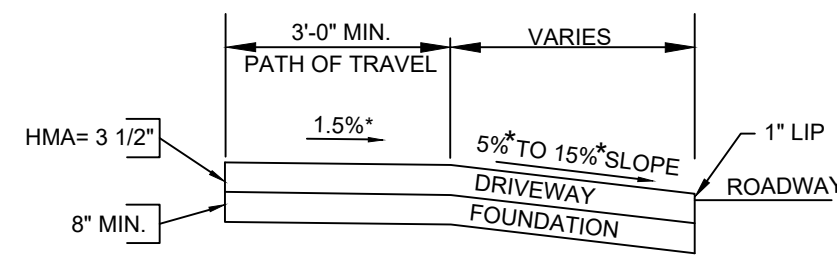
DWY #	RAMP REFERENCE POINT			WIDTH OF SIDEWALK (W)	WIDTH OF DRIVEWAY (L)	ROADWAY GUTTER SLOPE	TRANSITION LENGTH***	
	BASELINE	STATION	OFFSET				LEFT SIDE	RIGHT SIDE
28	BEACH ROAD	24+52	12.5' LT	5'-0"	20'-0"	-0.57%	7'-8"	N/A

NO SIDEWALK THROUGH DRIVEWAY



NOTES:

- * CONSTRUCTION TOLERANCE ±0.5%
- ** INTENT IS TO MAINTAIN A LEVEL PATH THROUGH THE DRIVEWAY
- SEE CONSTRUCTION STANDARDS E 107.6.9, E 107.7.0, AND E 107.9.0

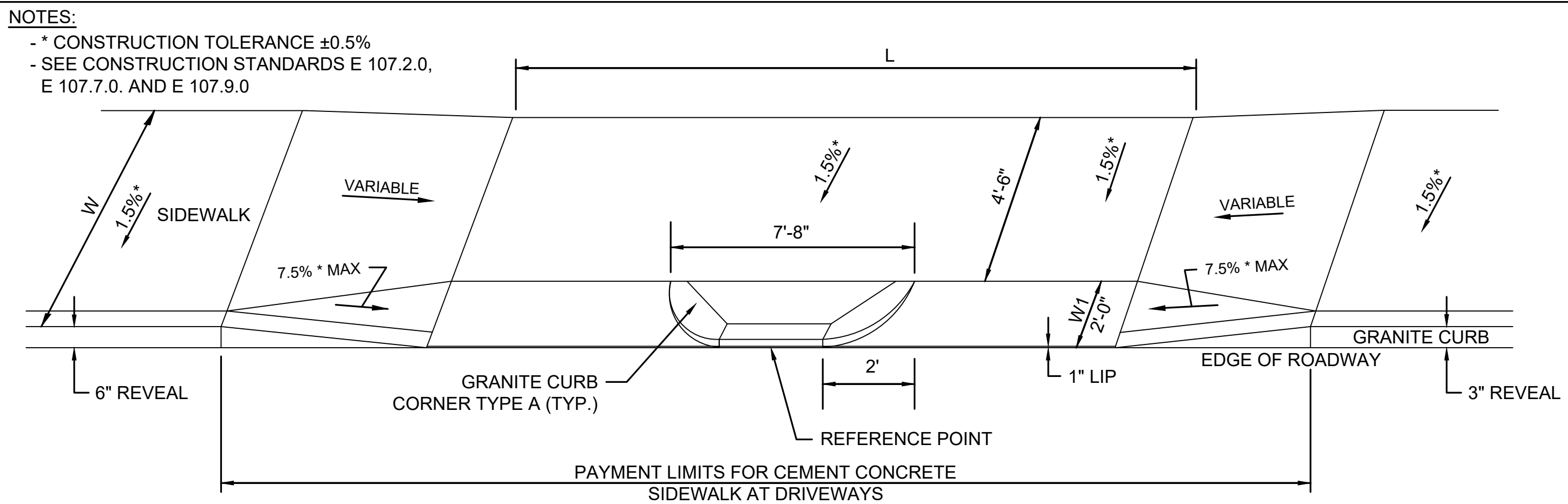


SECTION A-A

DWY #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	SLOPE OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK (W)	WIDTH OF DRIVEWAY (L)	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET						LEFT SIDE	RIGHT SIDE
19	BEACH RD	18+96	15.0' RT	3'-0"	11.00%	8'-0"	15'-0"	-0.28%	4'-4"	5'-2"
20	BEACH RD	19+60	15.0' RT	3'-0"	11.00%	8'-0"	15'-0"	0.36%	4'-4"	5'-2"
21	BEACH RD	20+48	13.8' RT	3'-0"	11.00%	8'-0"	24'-0"	0.43%	4'-4"	5'-2"
22	BEACH RD	20+93	12.5' RT	3'-0"	11.00%	8'-0"	15'-0"	0.91%	6'-6"	5'-2"
23	BEACH RD	21+72	12.5' RT	3'-0"	11.00%	8'-0"	15'-0"	-0.40%	6'-6"	6'-6"
24	BEACH RD	22+63	12.5' RT	3'-0"	11.00%	8'-0"	15'-0"	-0.40%	6'-6"	6'-6"
25	BEACH RD	23+35	12.5' RT	3'-0"	11.00%	8'-0"	24'-0"	-0.13%	6'-6"	6'-6"
26	BEACH RD	23+94	12.5' RT	3'-0"	11.00%	8'-0"	18'-0"	0.44%	6'-6"	6'-6"
27	BEACH RD	24+46	12.5' RT	3'-0"	11.00%	8'-0"	18'-0"	0.57%	3'-3"	6'-6"
29	BEACH RD	24+72	12.5' RT	3'-0"	11.00%	8'-0"	15'-0"	0.57%	6'-6"	3'-3"
30	BEACH RD	25+15	12.5' RT	3'-0"	11.00%	8'-0"	15'-0"	0.23%	6'-6"	6'-6"
31	BEACH RD	26+24	12.5' RT	3'-0"	11.00%	8'-0"	24'-0"	-0.40%	6'-6"	6'-6"
32	BEACH RD	27+74	12.5' RT	3'-0"	11.00%	8'-0"	24'-0"	0.99%	6'-6"	6'-6"
33	BEACH RD	28+36	12.5' RT	3'-0"	11.00%	8'-0"	36'-0"	0.61%	6'-6"	6'-6"
35	BEACH RD	30+90	12.5' RT	3'-0"	11.00%	8'-0"	24'-0"	-0.42%	6'-6"	6'-6"
36	BEACH RD	32+15	12.5' RT	3'-0"	11.00%	8'-0"	30'-0"	-0.40%	6'-6"	6'-6"
37	BEACH RD	32+63	12.5' RT	3'-0"	11.00%	8'-0"	30'-0"	-0.40%	6'-6"	6'-6"
38	BEACH RD	34+05	12.5' RT	3'-0"	11.00%	8'-0"	24'-0"	-0.40%	6'-6"	6'-6"
39	BEACH RD	36+15	14.4' RT	3'-0"	11.00%	8'-0"	24'-0"	-0.40%	6'-6"	6'-6"

NOTE: * 3" CURB REVEAL; ** 4" CURB REVEAL

SIDEWALK THROUGH DRIVEWAYS WITH LANDSCAPING



NOTES:

- * CONSTRUCTION TOLERANCE ±0.5%
- SEE CONSTRUCTION STANDARDS E 107.2.0, E 107.7.0, AND E 107.9.0

DWY #	RAMP REFERENCE POINT			LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK (W)	WIDTH OF DRIVEWAY (L)	DEPTH OF TRAVEL PATH MIN. 3'-3"	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	BASELINE	STATION	OFFSET						LEFT SIDE	RIGHT SIDE
13*	BEACH RD	15+92	15.0' RT	2'-0"	6'-6"	49'-0"	4'-6"	-0.61%	7'-8"	* 3'-3"

NOTE: * 3" CURB REVEAL ON RIGHT SIDE

SIDEWALK THROUGH ADJACENT DRIVEWAYS SEPARATED BY CURB RETURNS

TISBURY
BEACH ROAD

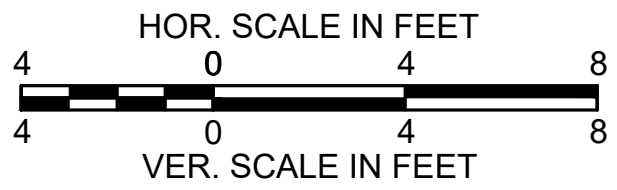
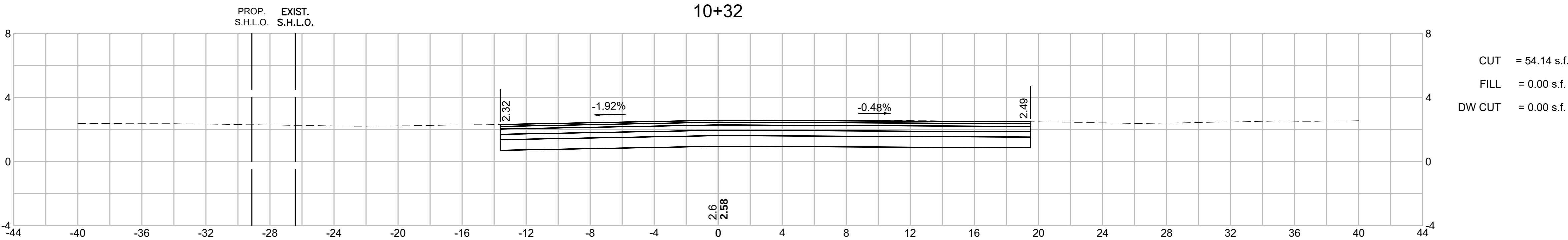
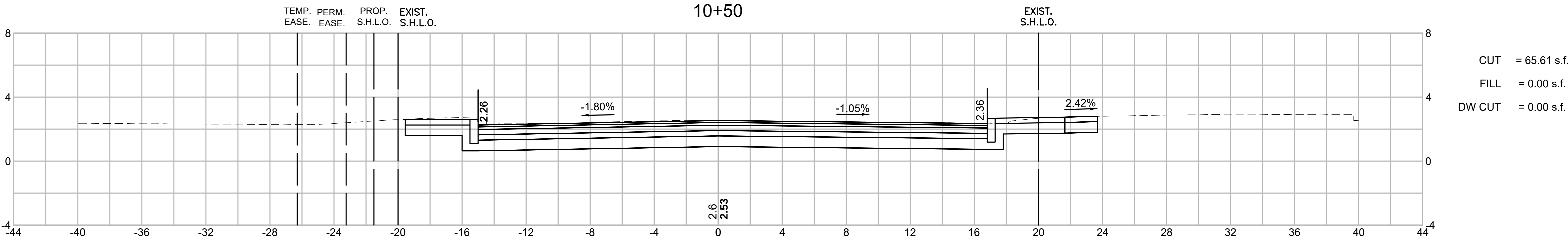
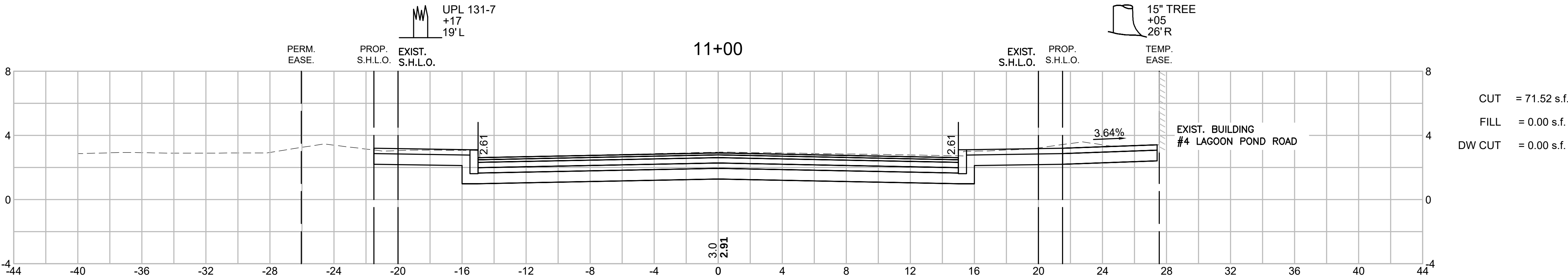
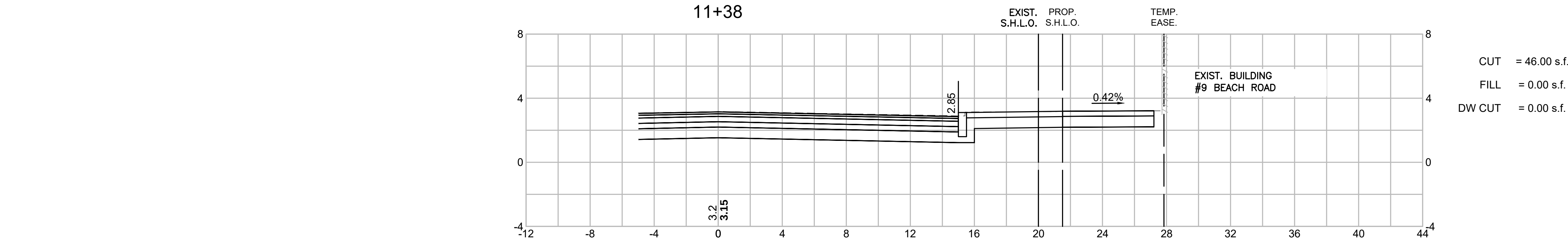
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	48	75
PROJECT FILE NO.		607411	

WHEELCHAIR RAMP/DRIVEWAY
DETAILS

TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	49	75
PROJECT FILE NO.		607411	

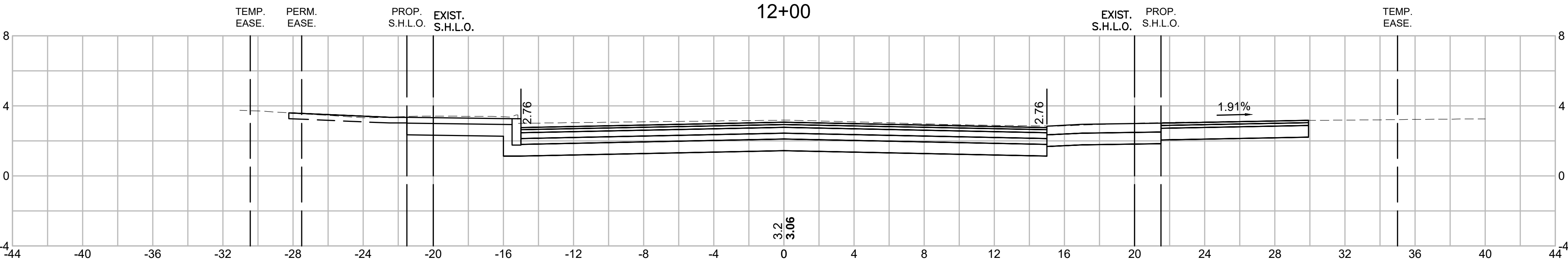
CROSS SECTIONS



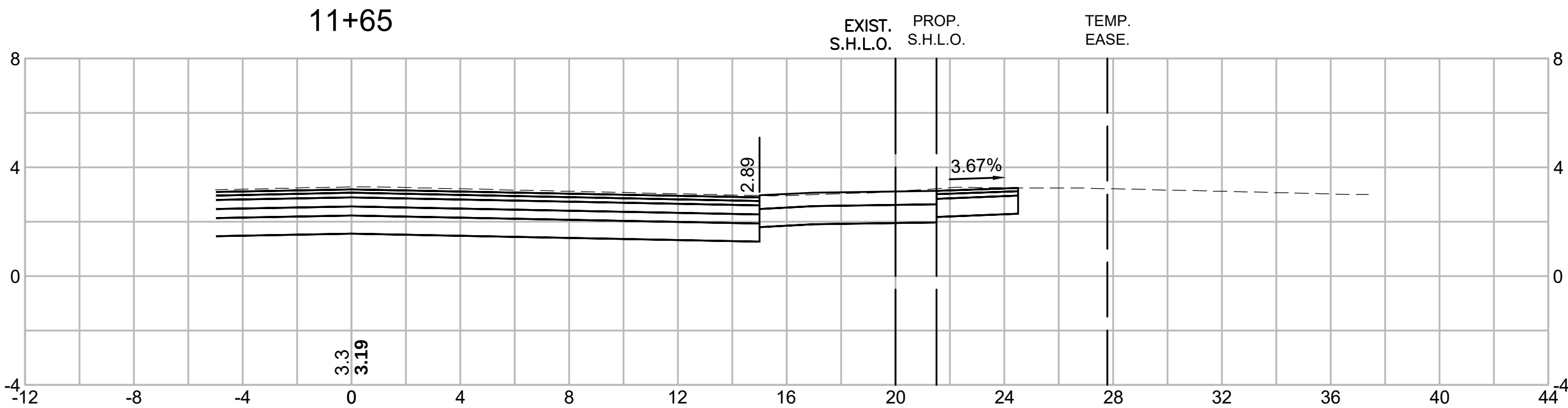
TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	50	75
PROJECT FILE NO.		607411	

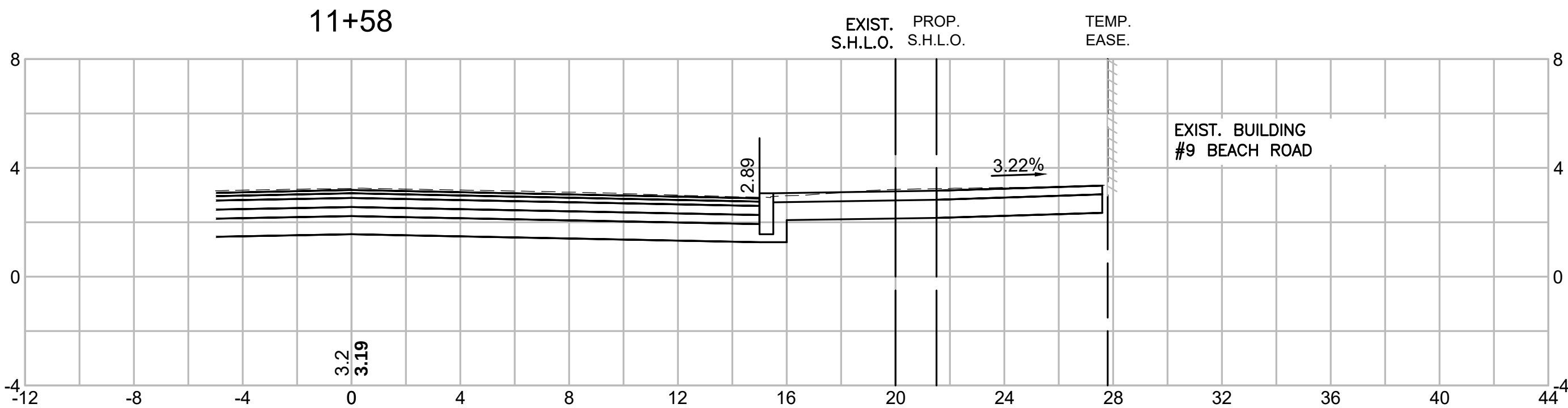
CROSS SECTIONS



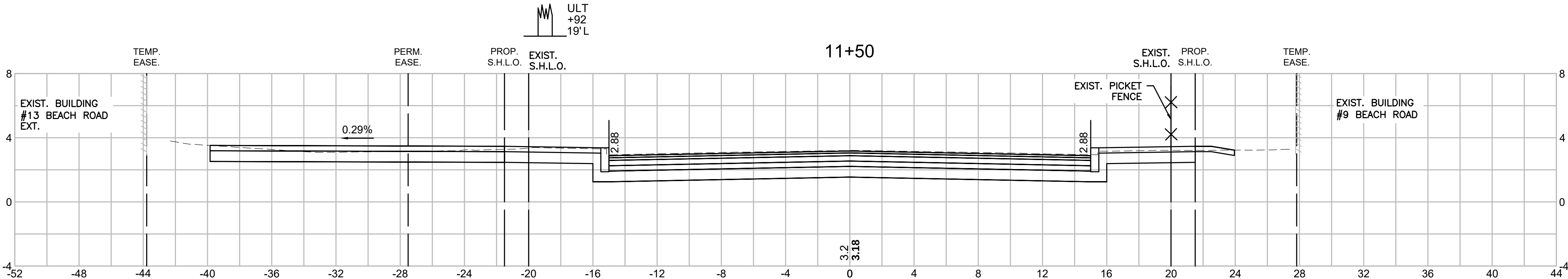
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DW CUT = 8.25 s.f.



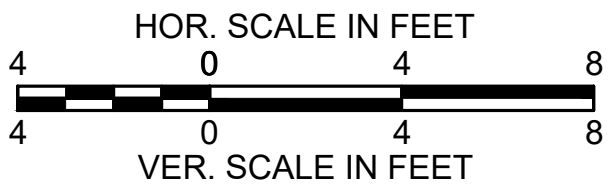
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DW CUT = 3.05 s.f.



CUT = 47.34 s.f.
FILL = 0.00 s.f.
DW CUT = 0.00 s.f.



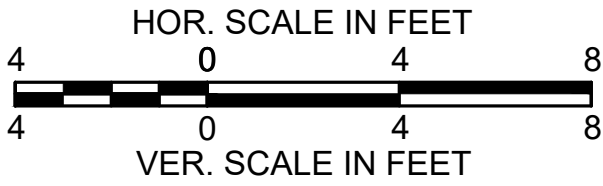
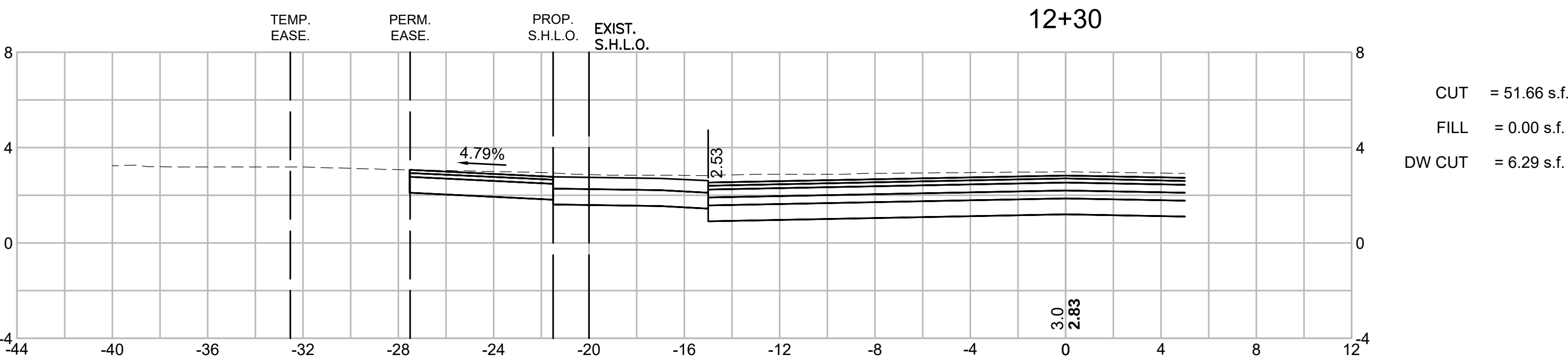
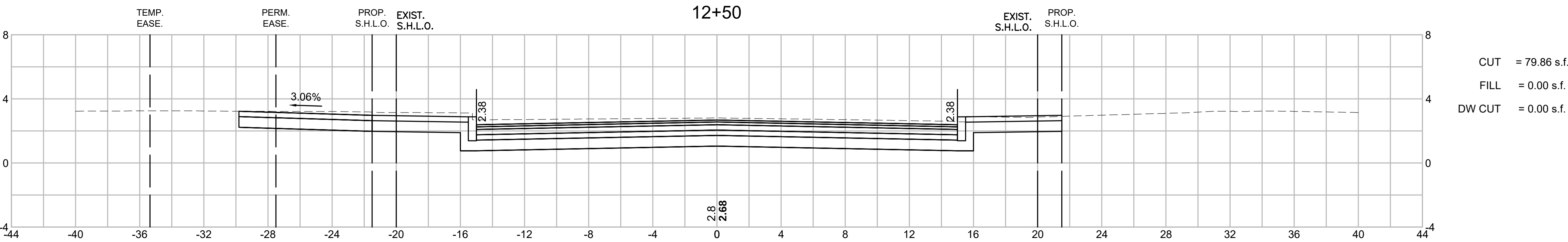
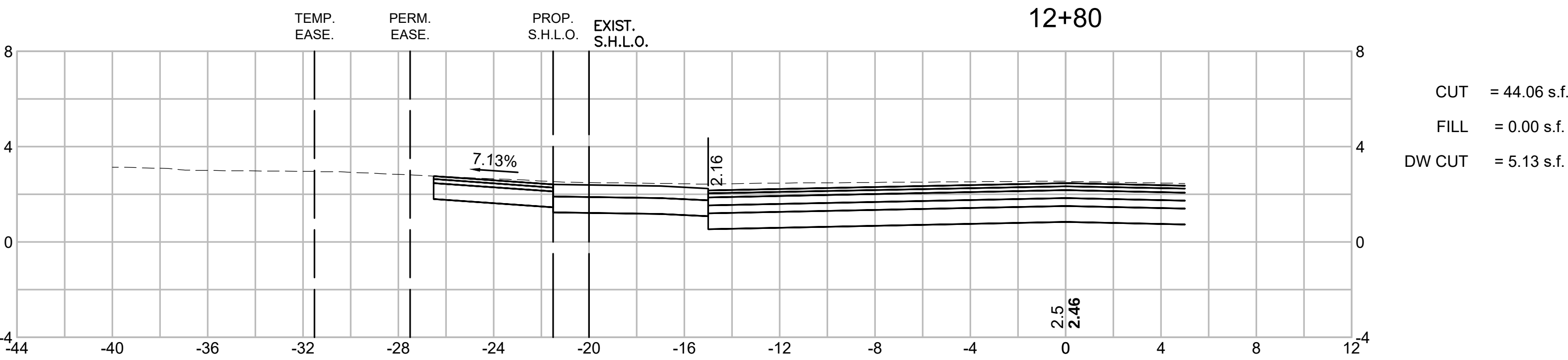
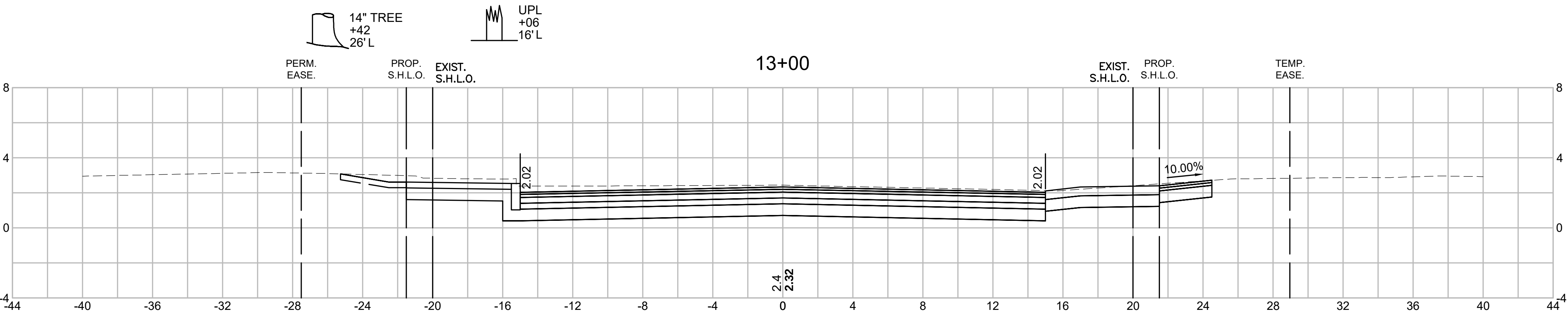
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TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	51	75
PROJECT FILE NO.		607411	

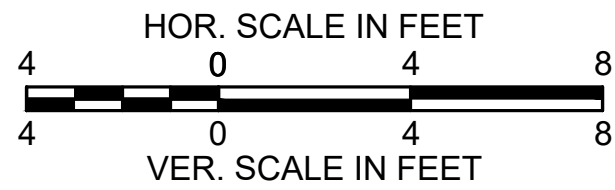
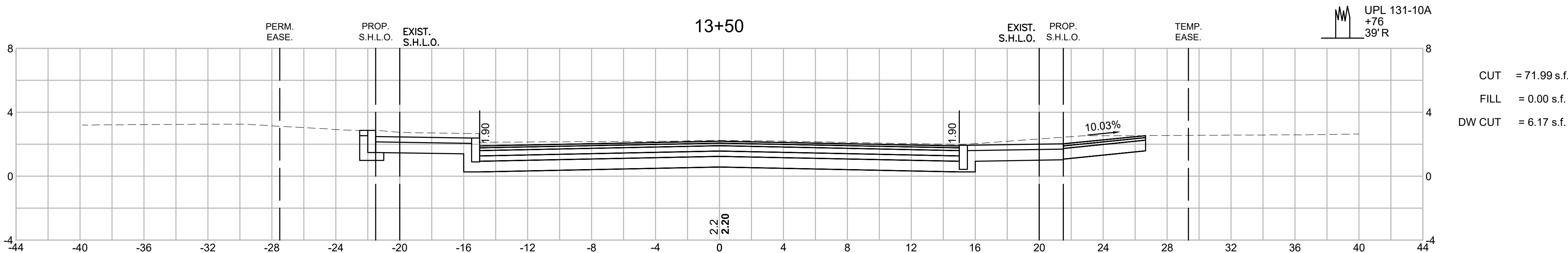
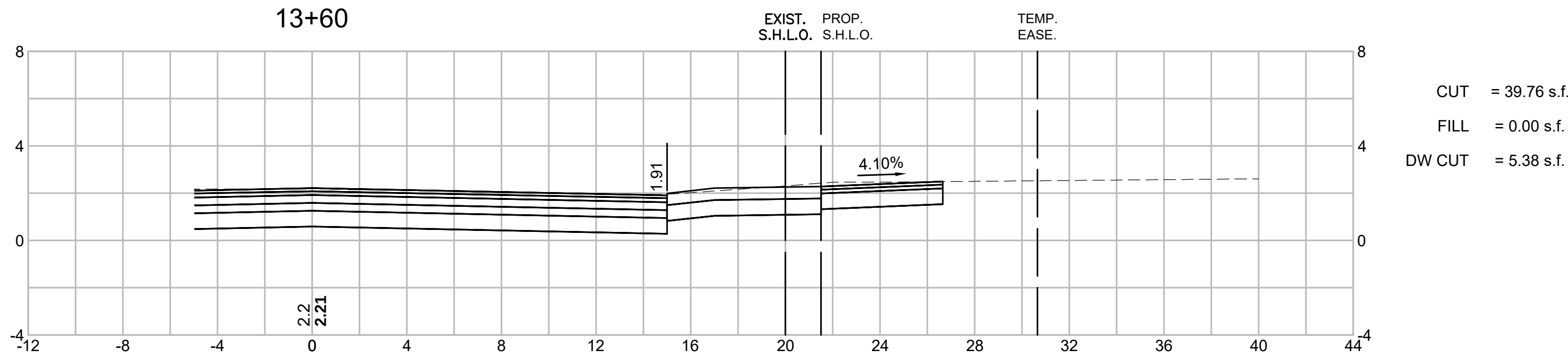
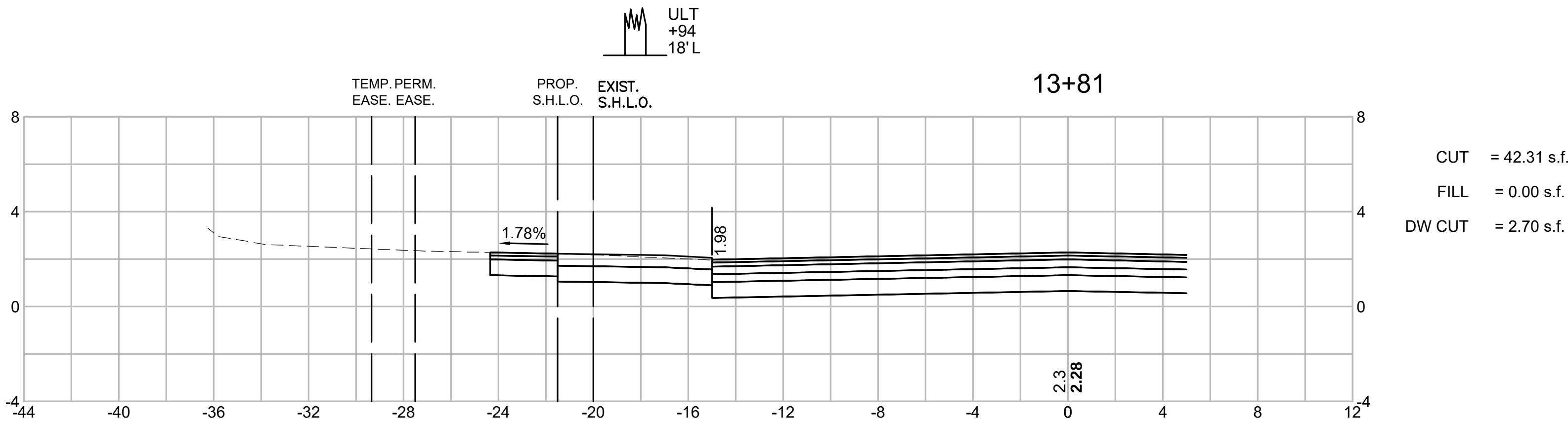
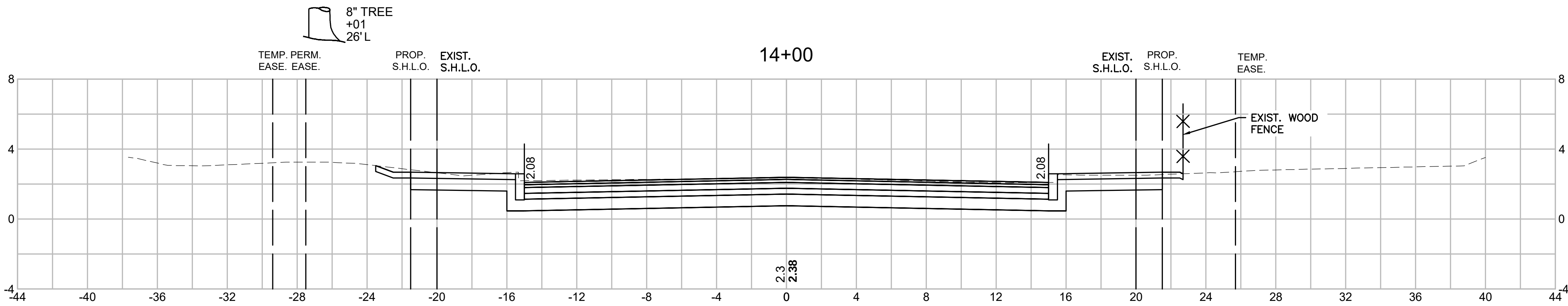
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	52	75
PROJECT FILE NO.		607411	

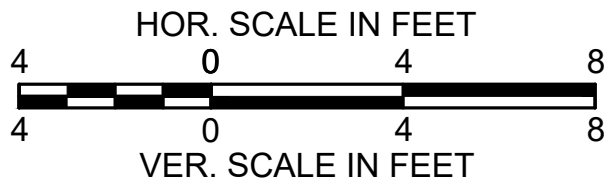
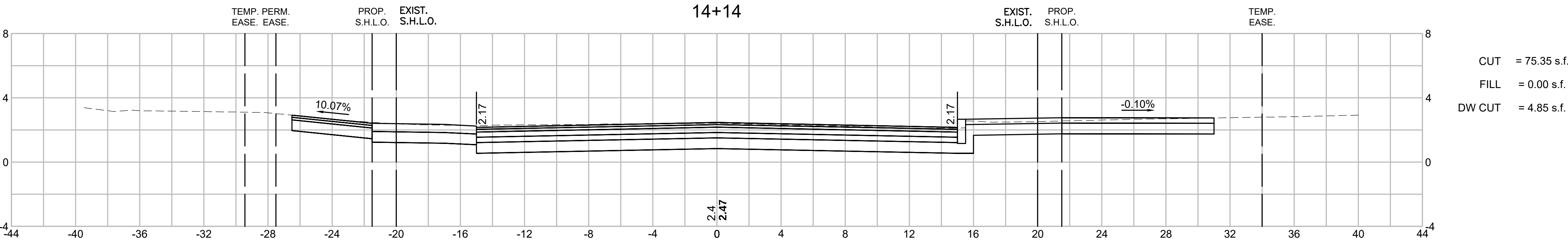
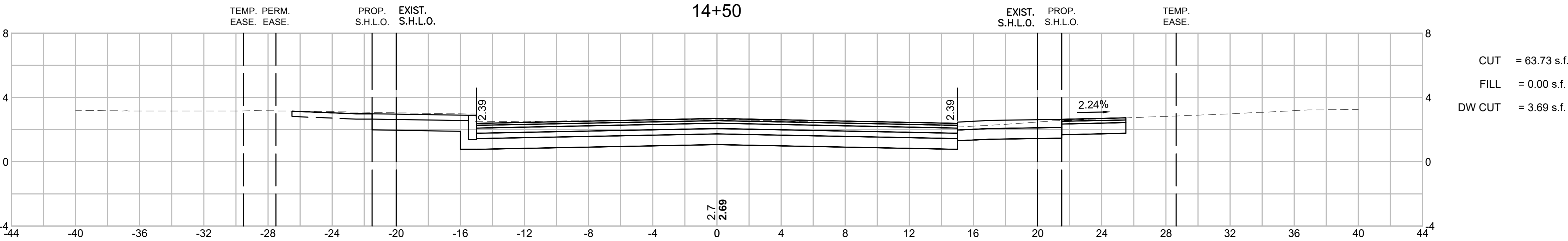
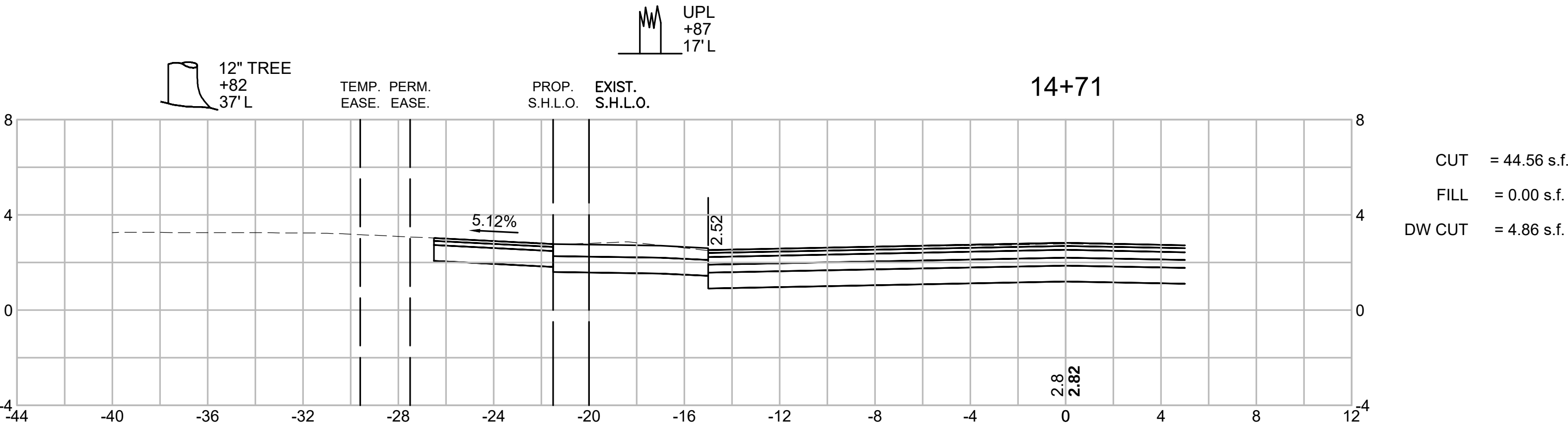
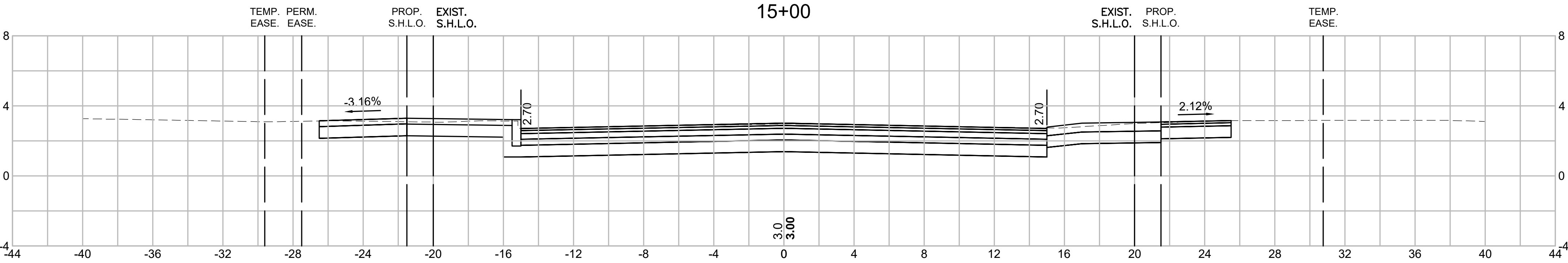
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	53	75
PROJECT FILE NO.		607411	

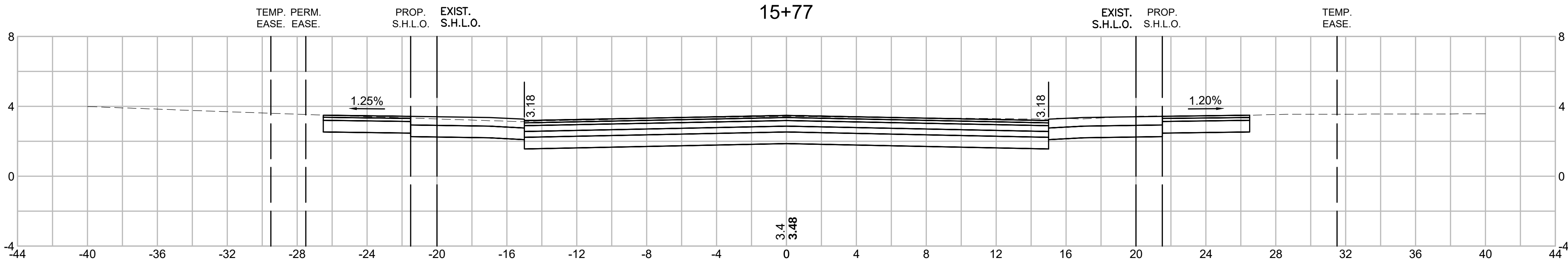
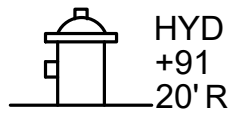
CROSS SECTIONS



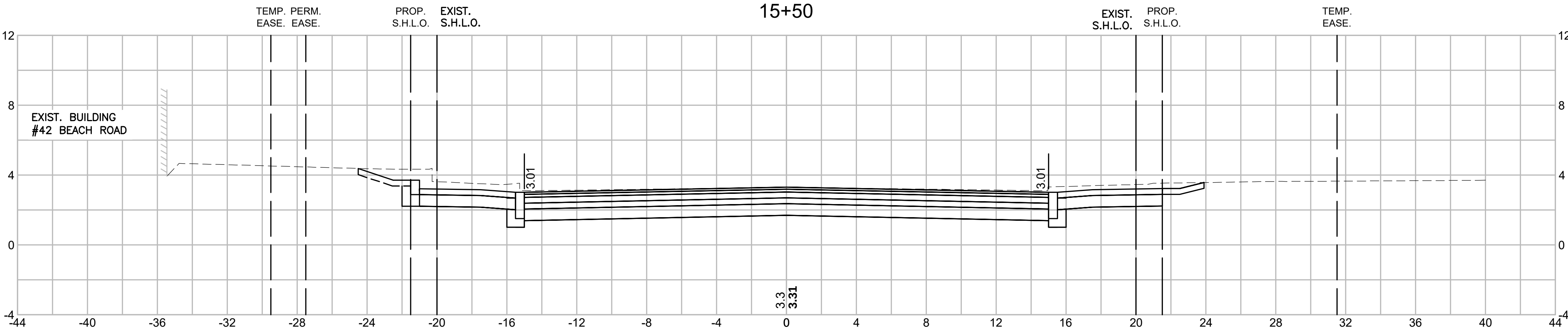
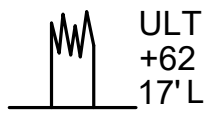
TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	54	75
PROJECT FILE NO.		607411	

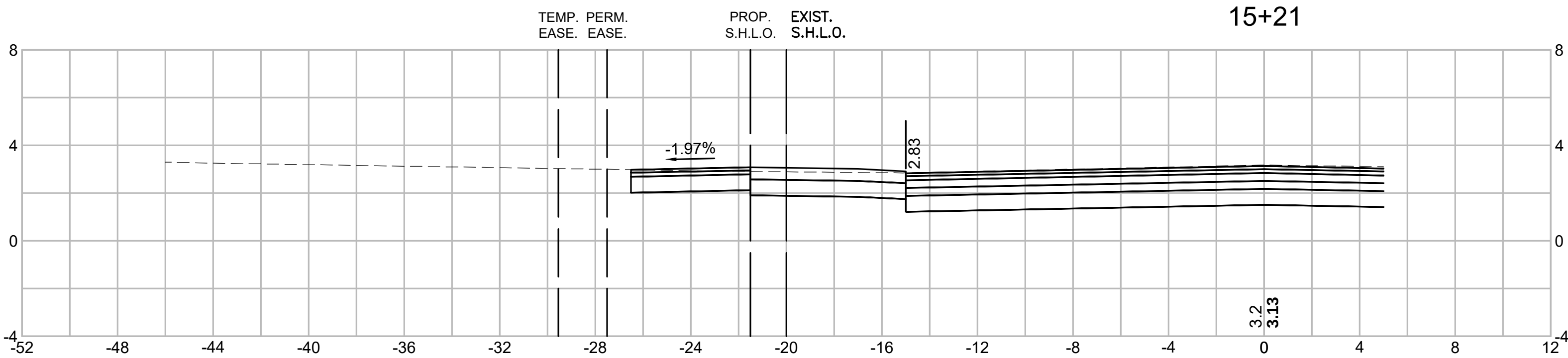
CROSS SECTIONS



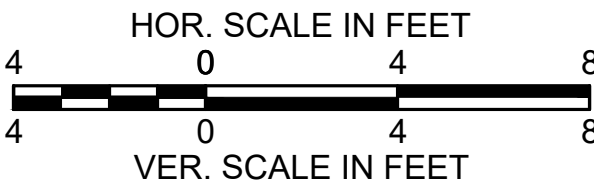
CUT = 66.98 s.f.
FILL = 0.00 s.f.
DW CUT = 9.37 s.f.



CUT = 70.12 s.f.
FILL = 0.00 s.f.
DW CUT = 0.00 s.f.



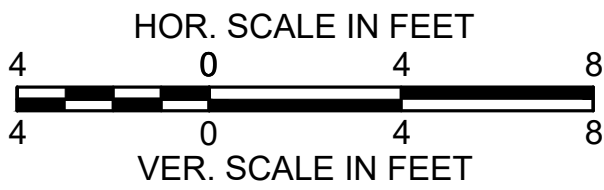
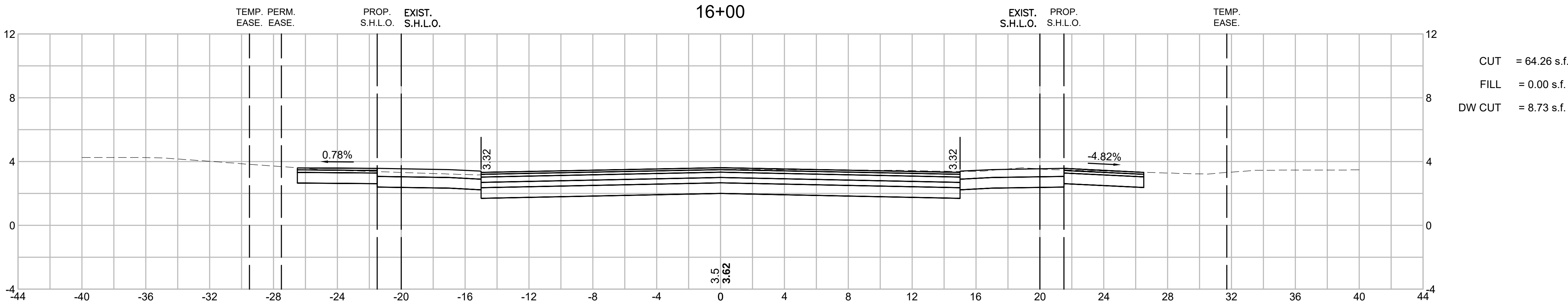
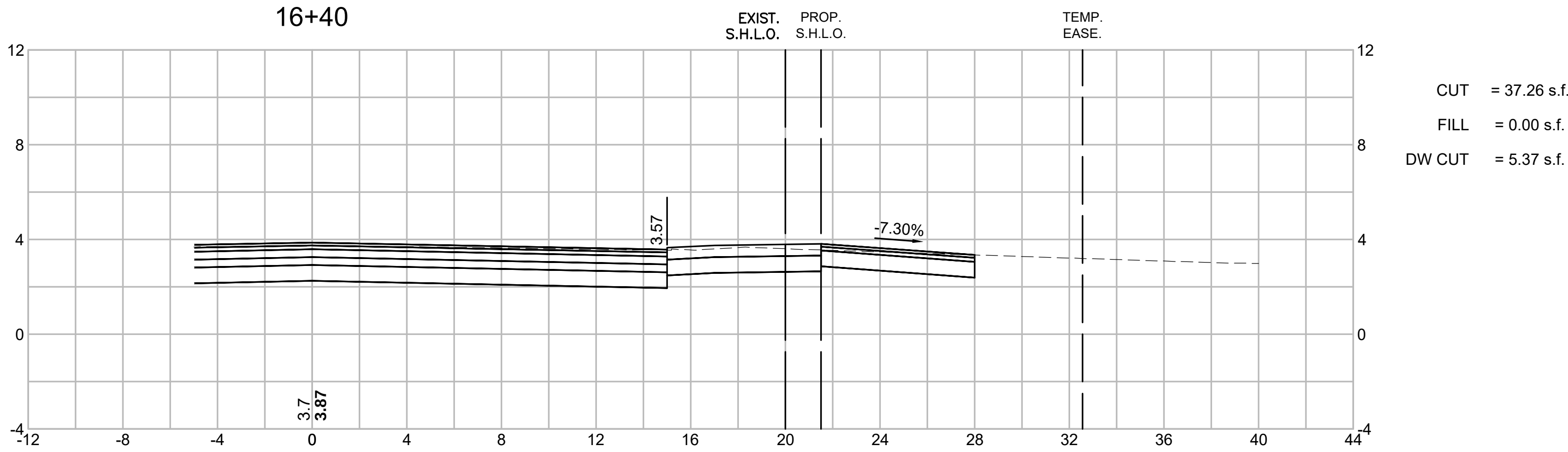
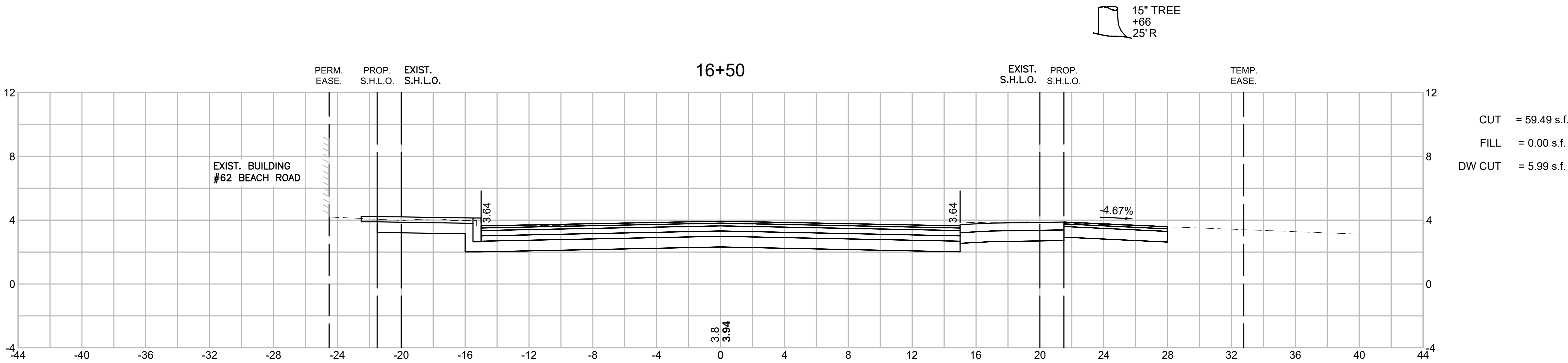
CUT = 44.21 s.f.
FILL = 0.00 s.f.
DW CUT = 4.35 s.f.



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	55	75
PROJECT FILE NO.		607411	

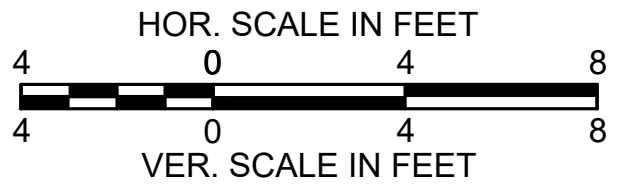
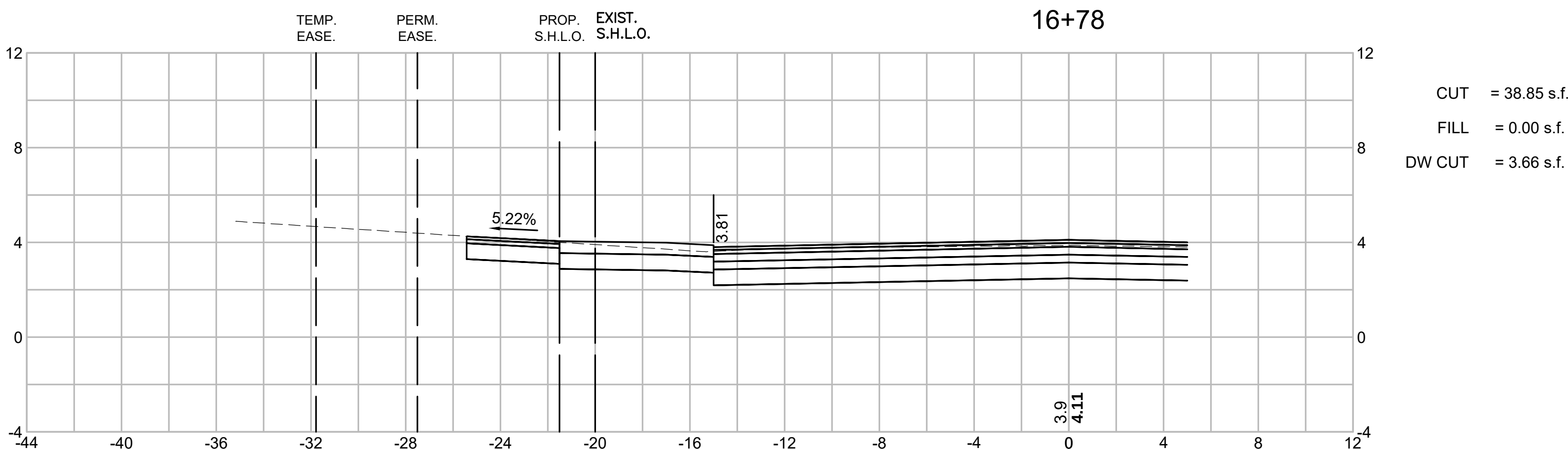
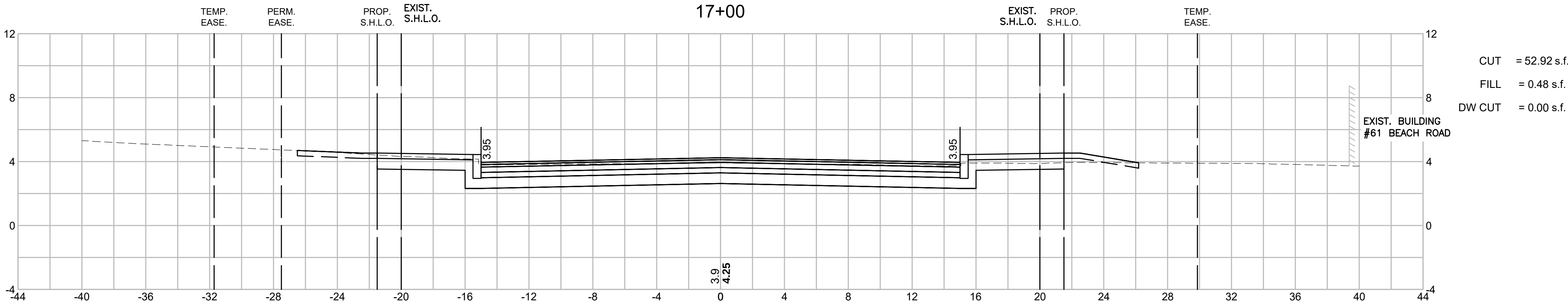
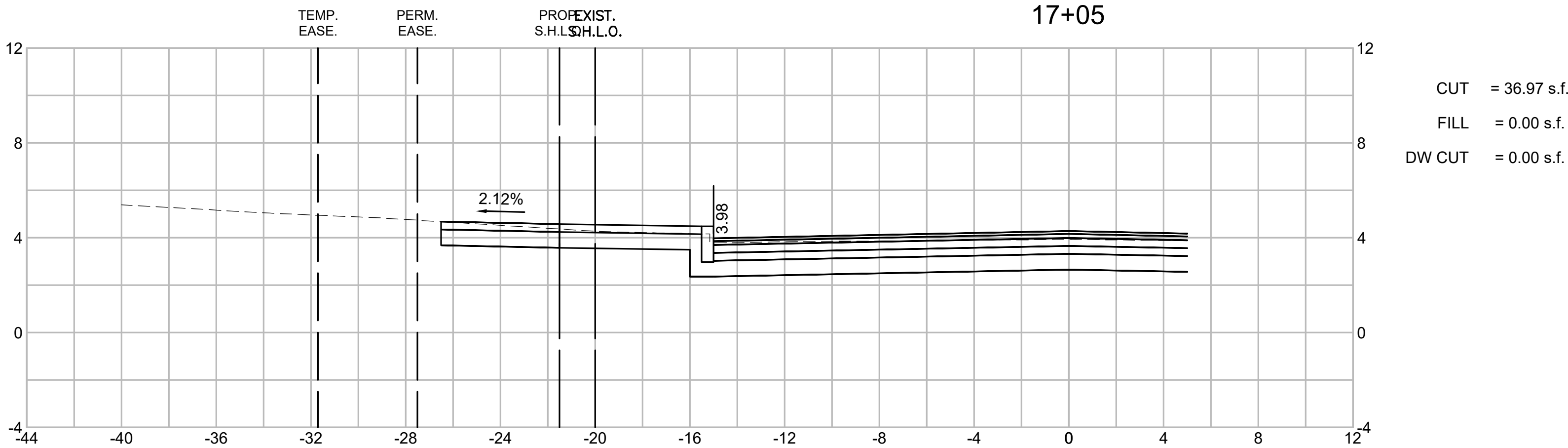
CROSS SECTIONS



TISBURY
BEACH ROAD

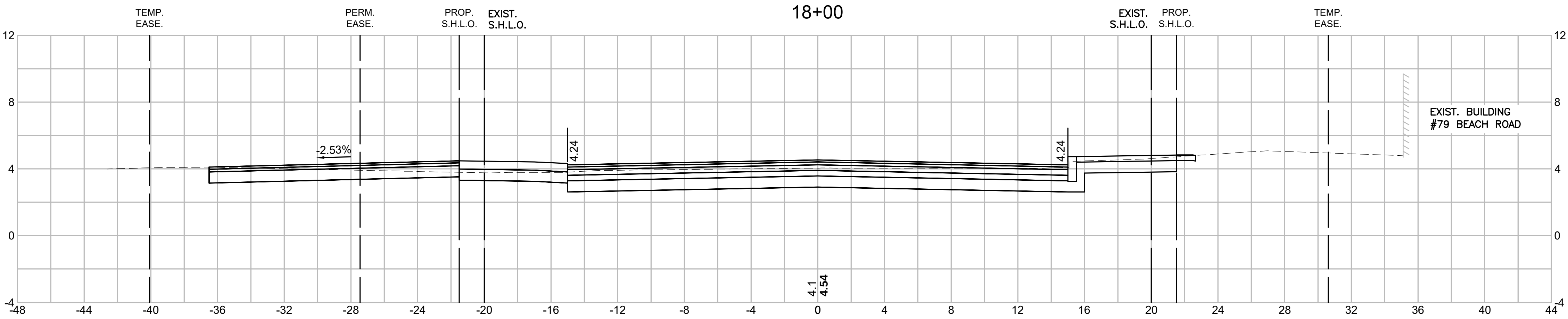
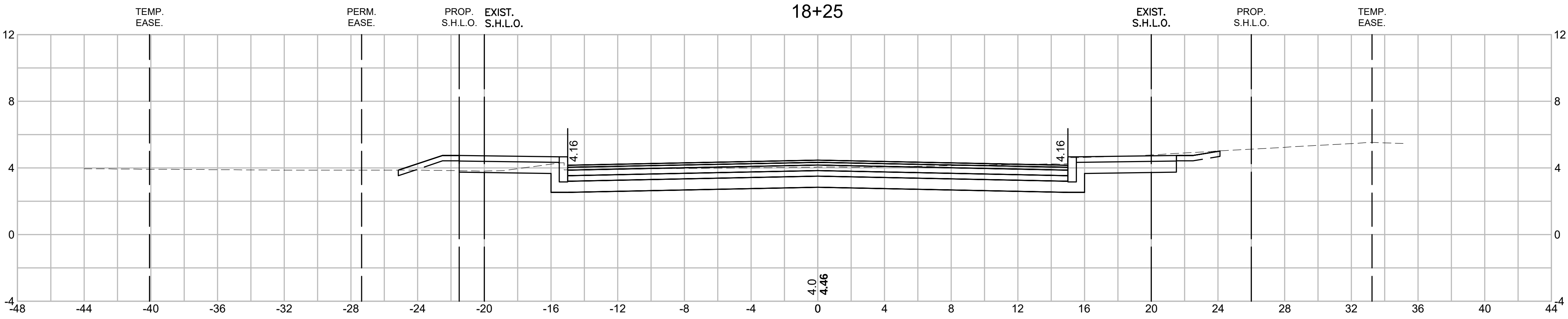
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	56	75
PROJECT FILE NO.		607411	

CROSS SECTIONS

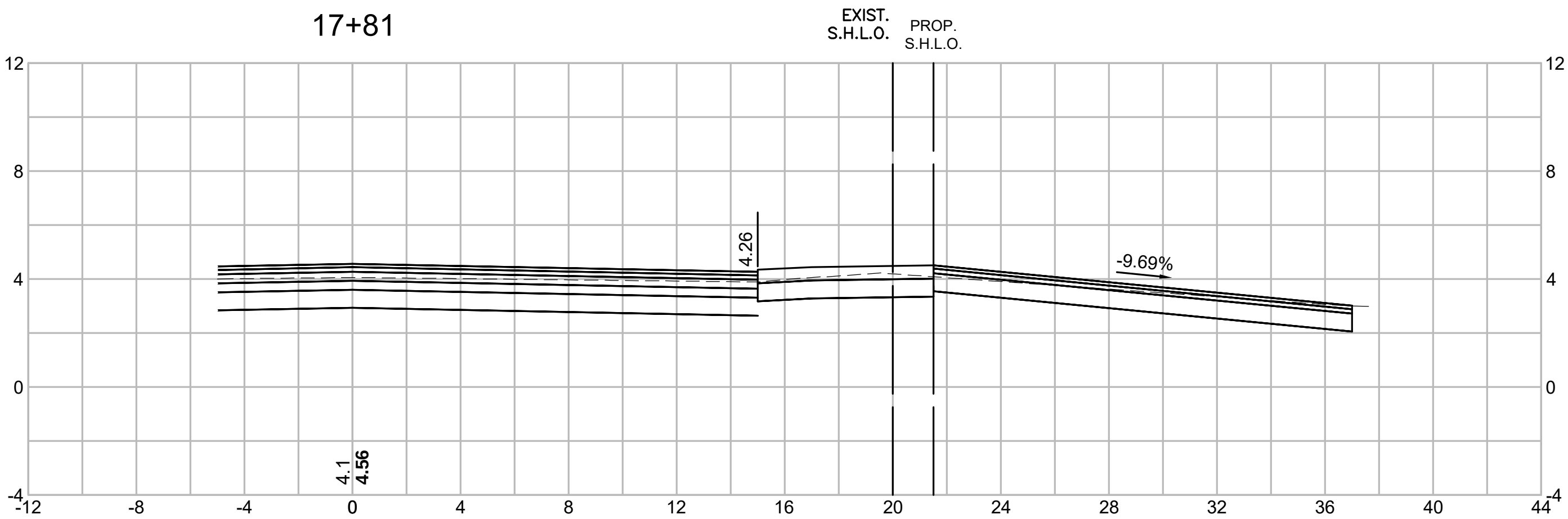


TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	57	75
PROJECT FILE NO.		607411	

CROSS SECTIONS

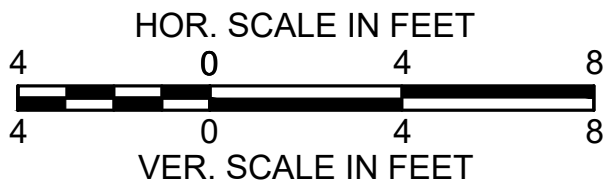
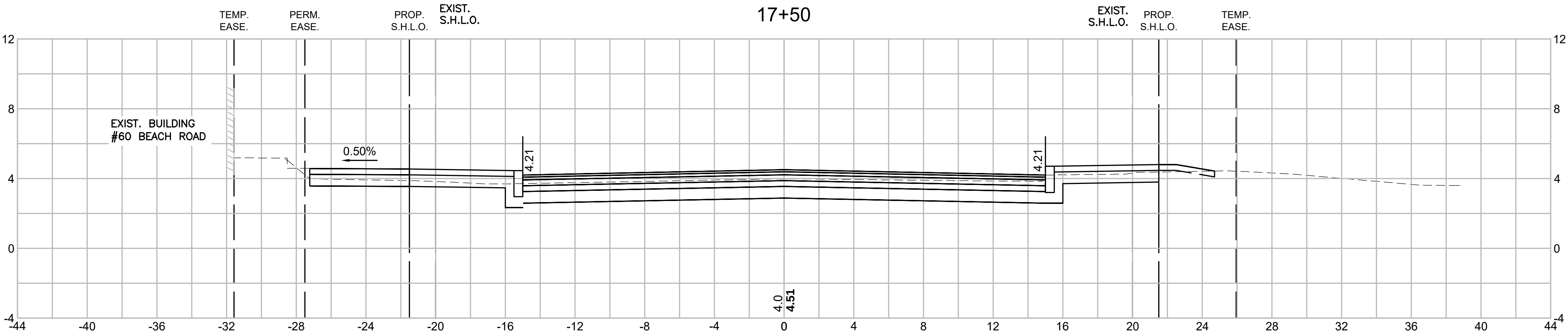


16" TREE
+97
26'R



ULT 131-13
+61
18'L

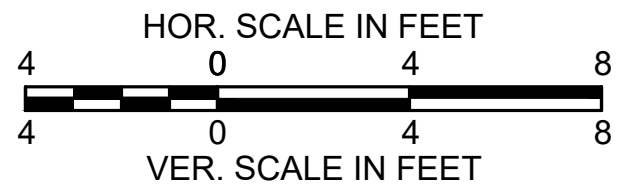
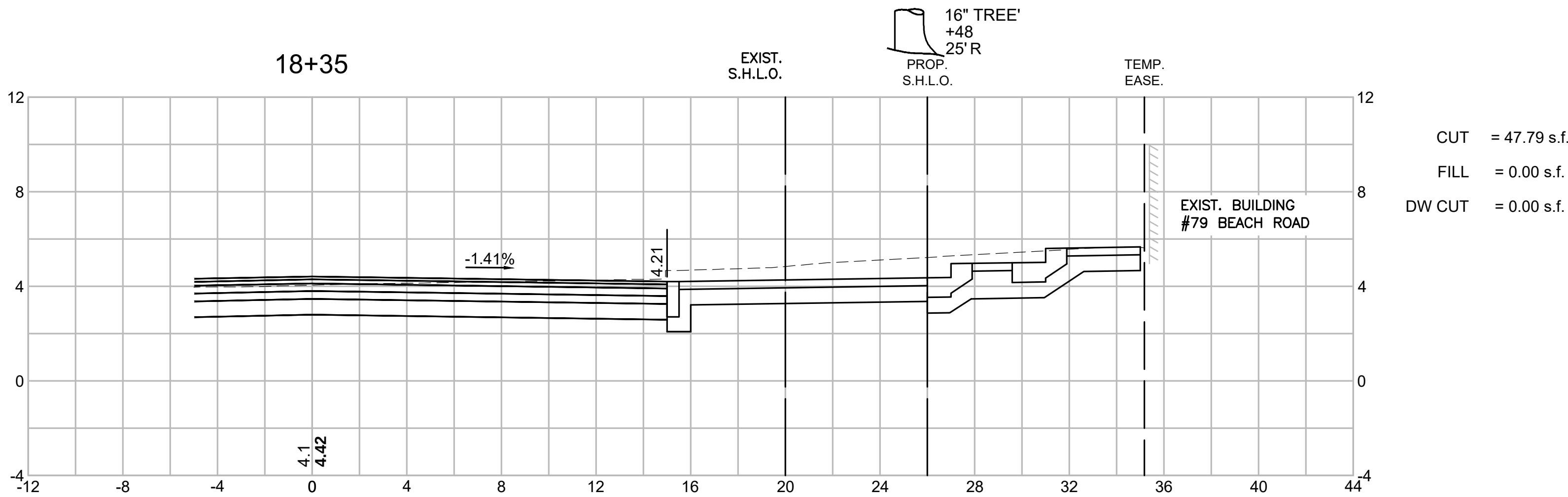
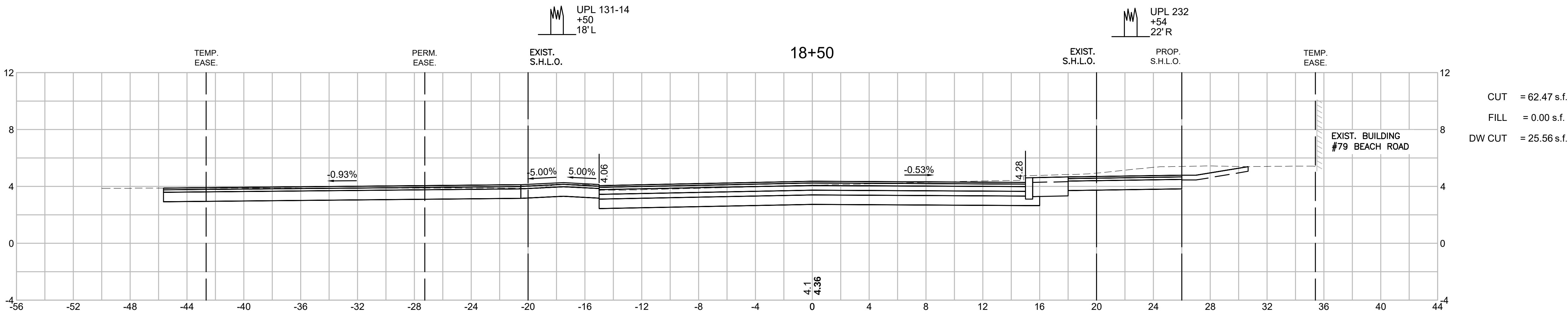
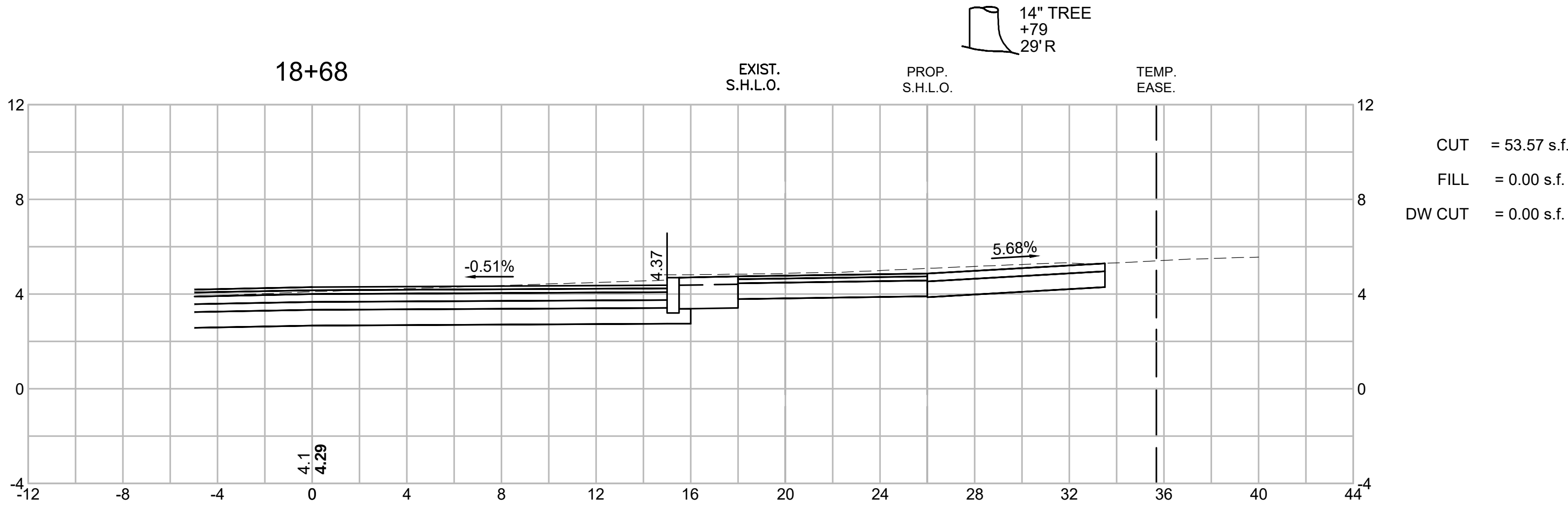
14" TREE
+60
25'R

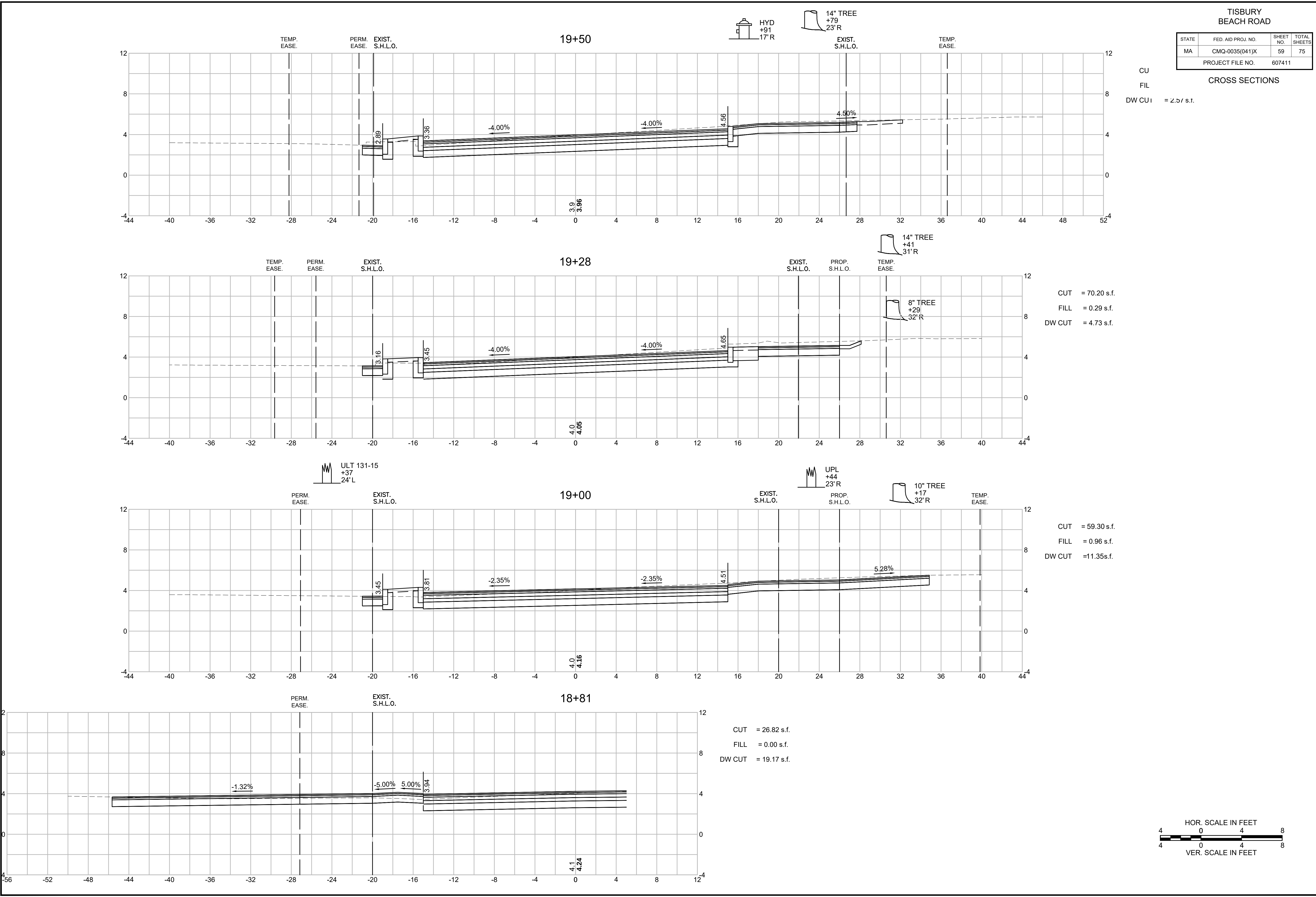


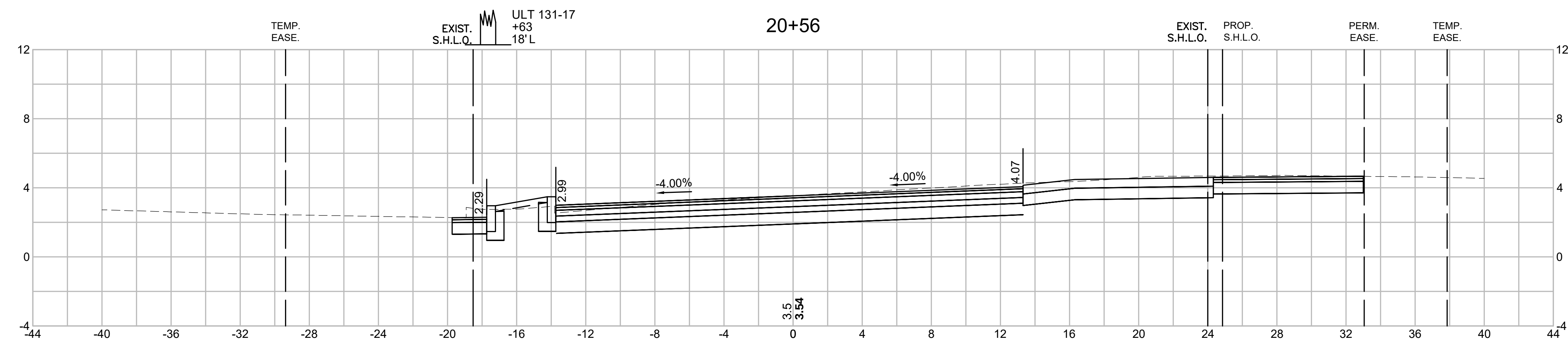
TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	58	75
PROJECT FILE NO.		607411	

CROSS SECTIONS



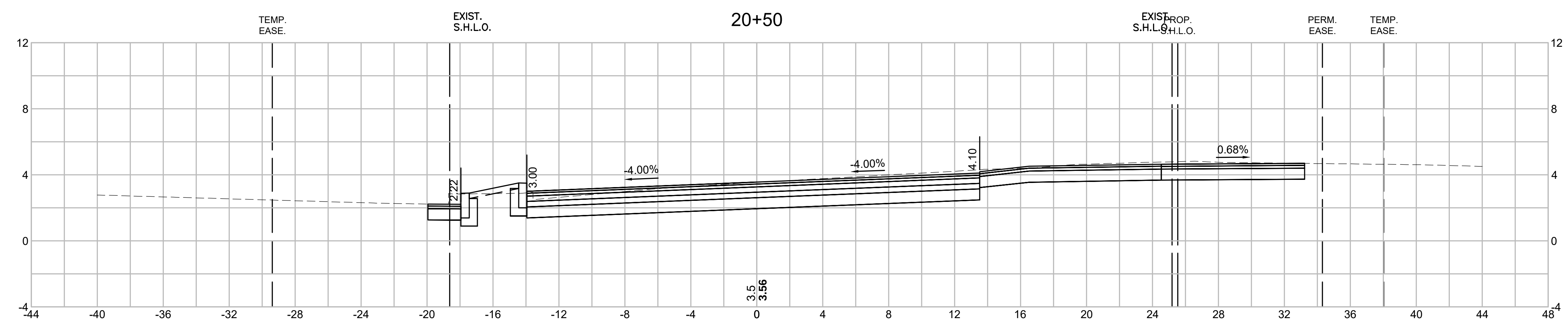




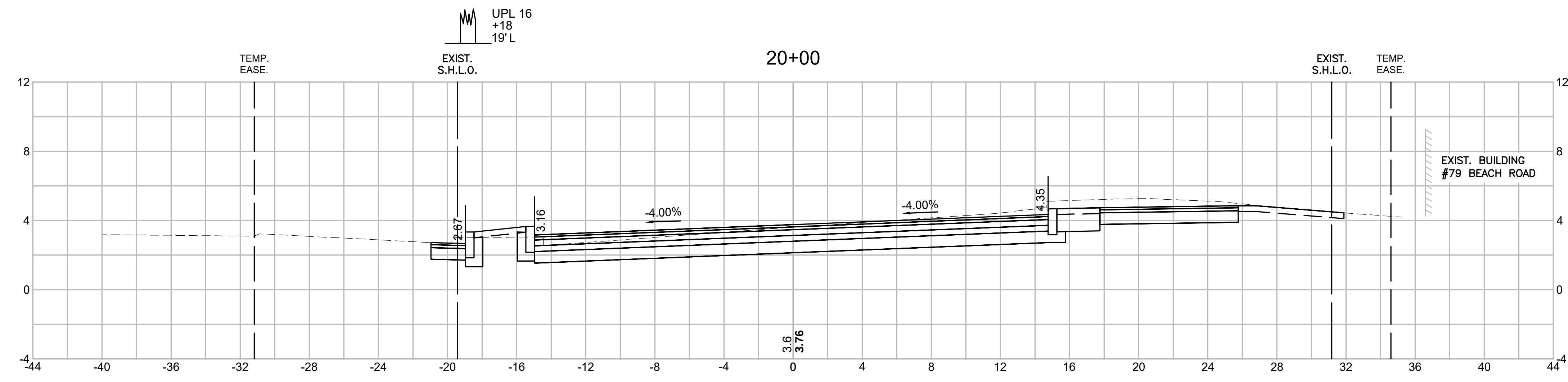
CUT = 59.55 s.f.
FILL = 0.21 s.f.
DW CUT = 11.15 s.f.

TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	60	75
PROJECT FILE NO.		607411	

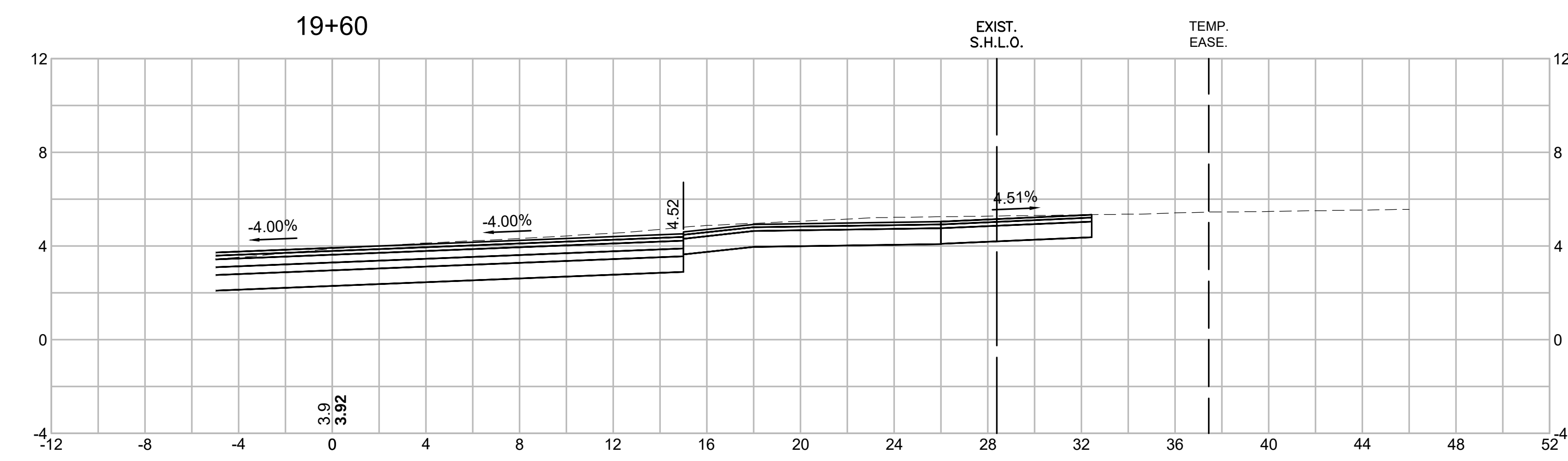
CROSS SECTIONS



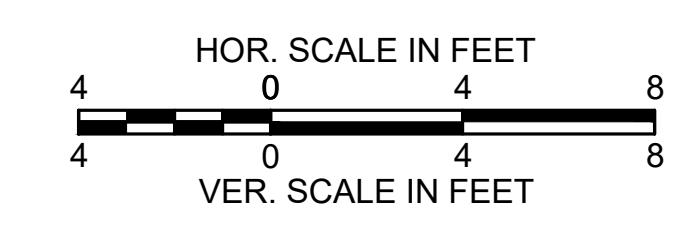
CUT = 57.16 s.f.
FILL = 0.10 s.f.
DW CUT = 11.49 s.f.



CUT = 67.30 s.f.
FILL = 0.27 s.f.
DW CUT = 2.17 s.f.



CUT = 45.13 s.f.
FILL = 0.00 s.f.
DW CUT = 6.82 s.f.

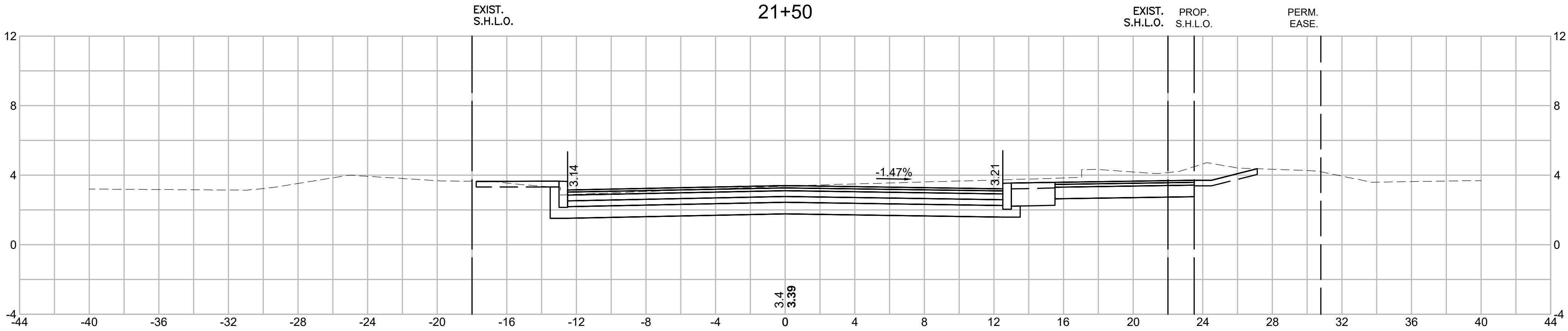


TISBURY
BEACH ROAD

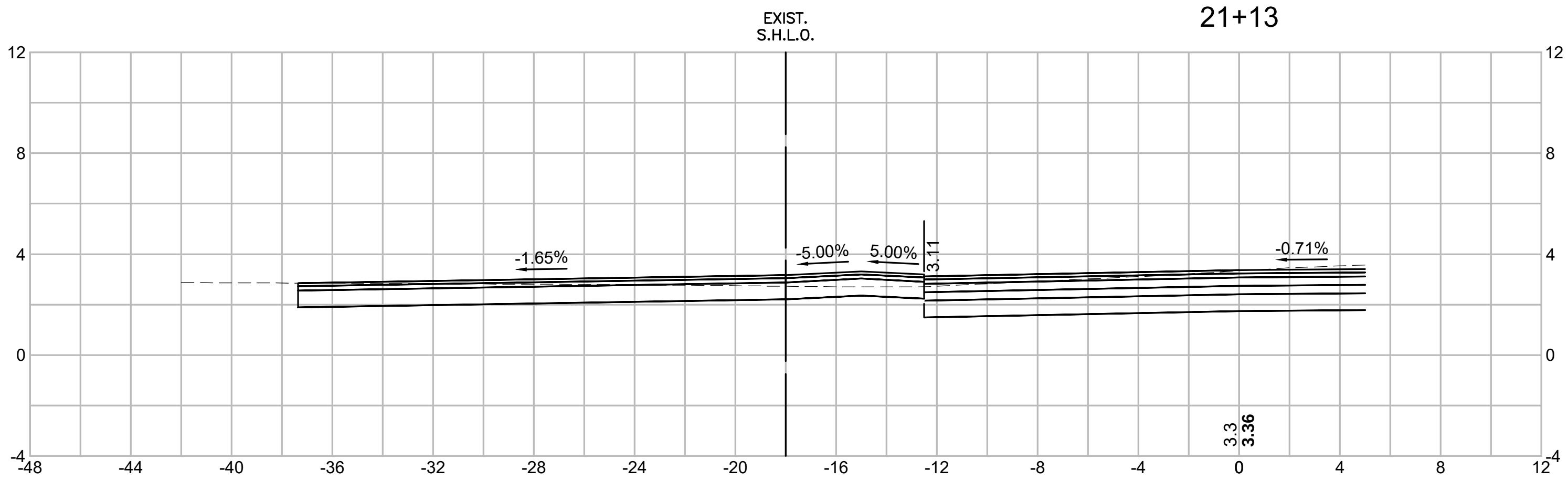
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	61	75
PROJECT FILE NO.		607411	

CROSS SECTIONS

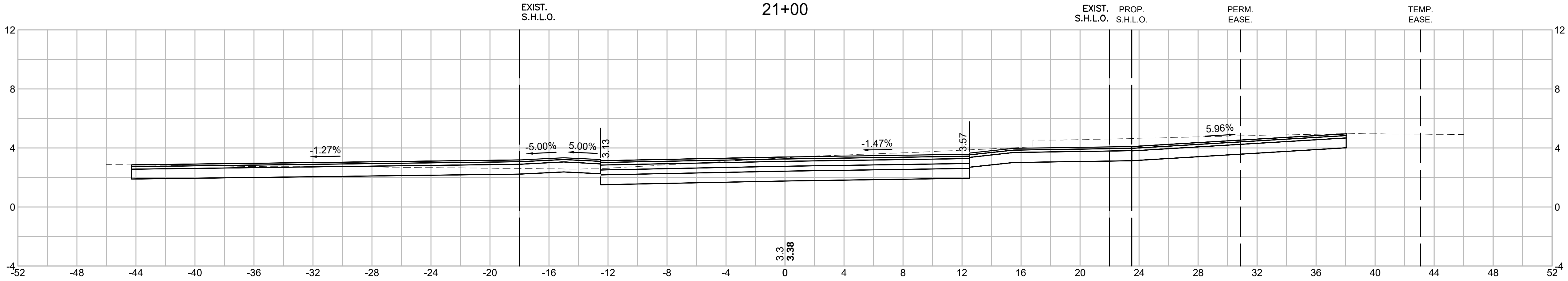
CUT = 64.58 s.f.
FILL = 0.00 s.f.
DW CUT = 0.00 s.f.



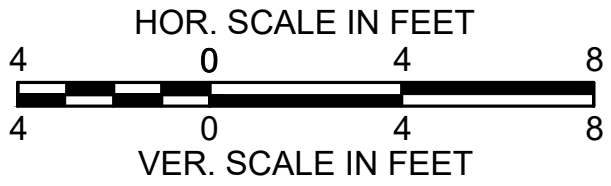
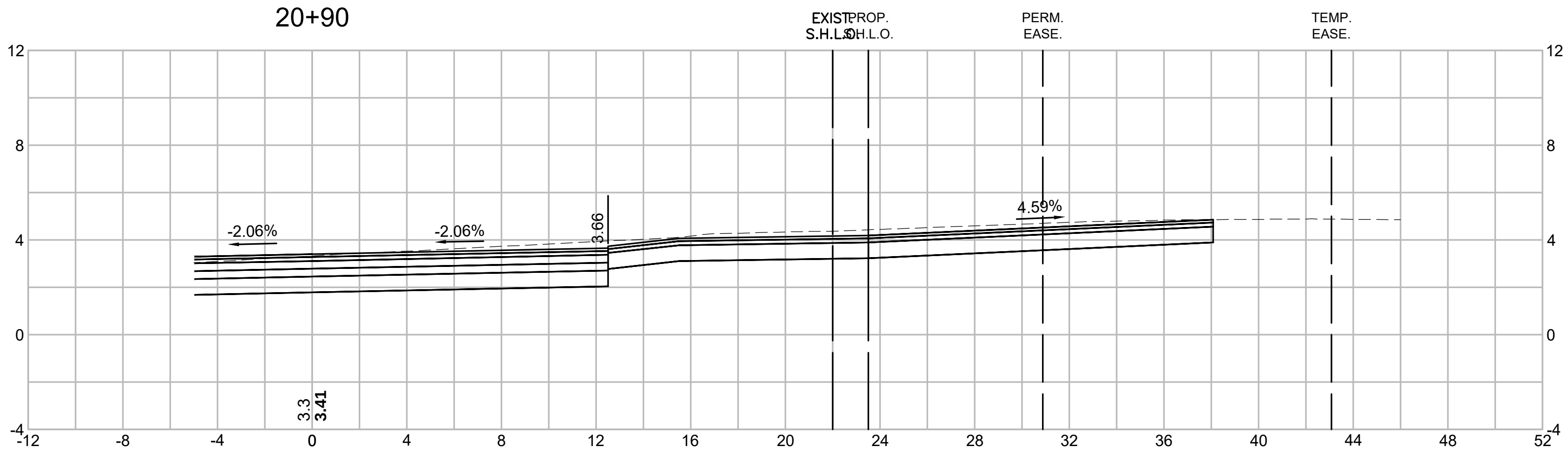
CUT = 25.94 s.f.
FILL = 0.00 s.f.
DW CUT = 16.74 s.f.

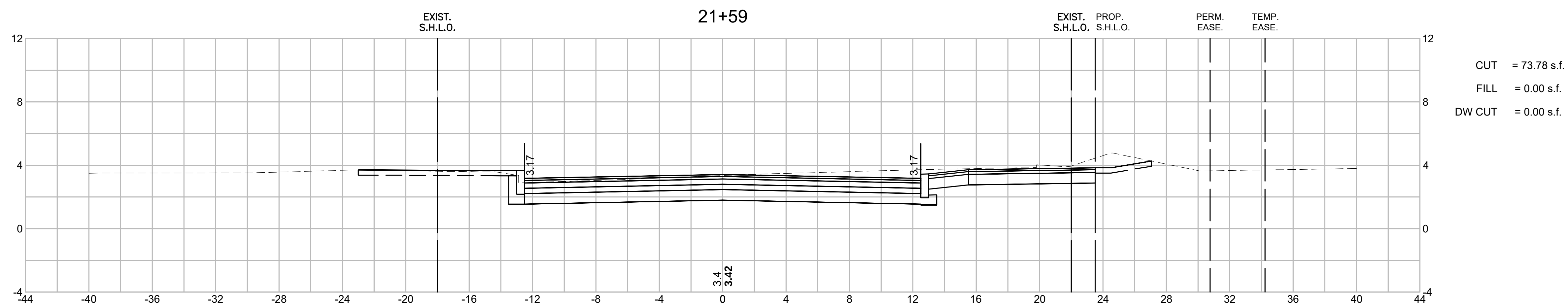
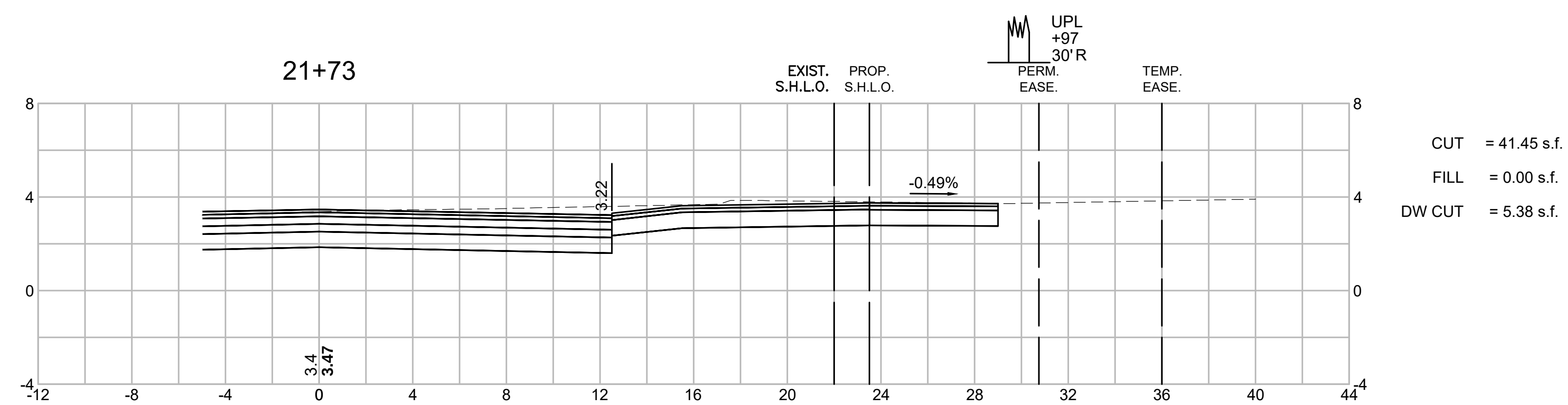
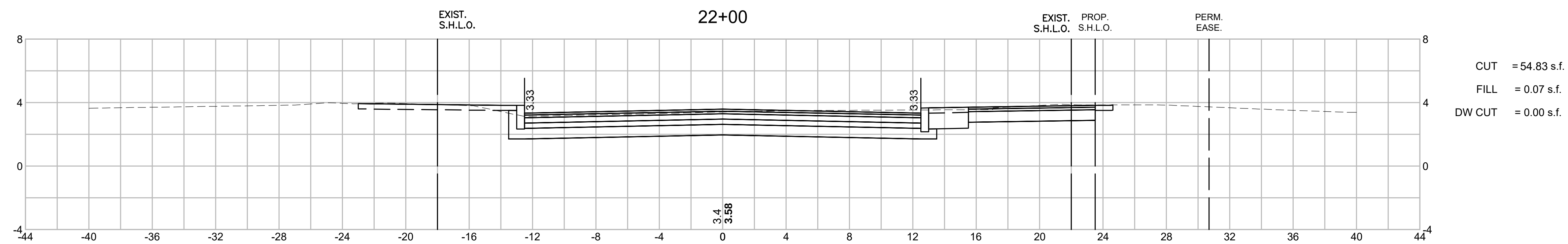
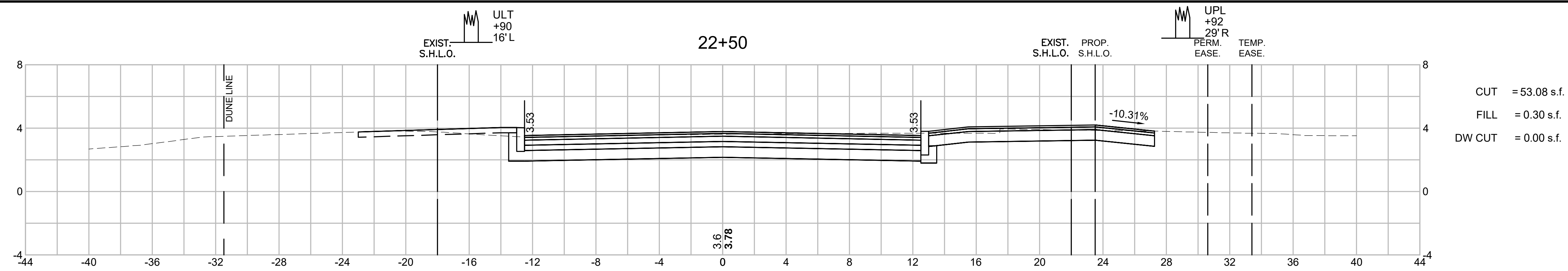


CUT = 53.80 s.f.
FILL = 0.00 s.f.
DW CUT = 36.93 s.f.



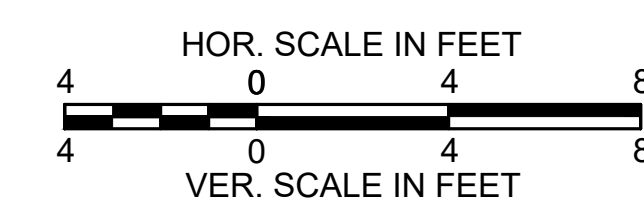
CUT = 41.29 s.f.
FILL = 0.00 s.f.
DW CUT = 16.23 s.f.





TISBURY BEACH ROAD			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	62	75
PROJECT FILE NO.		607411	

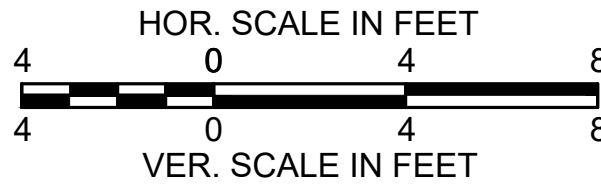
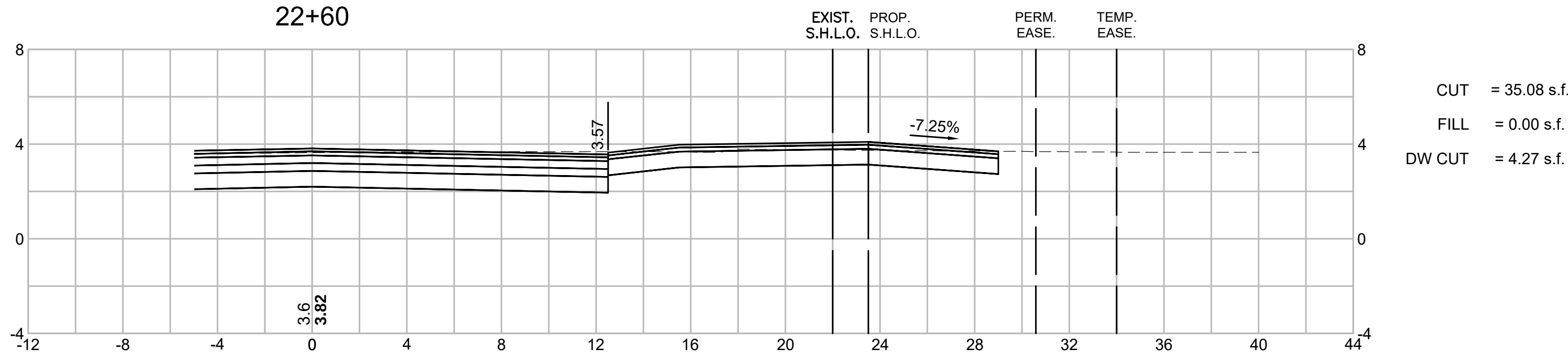
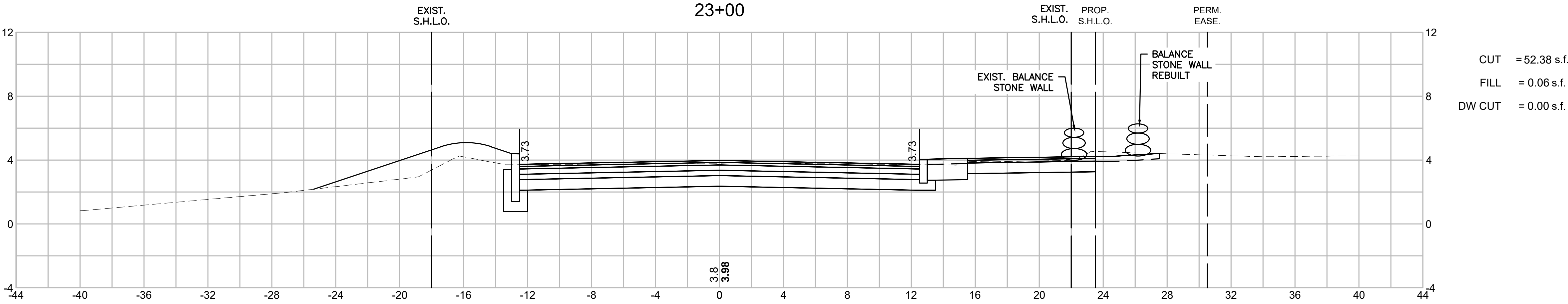
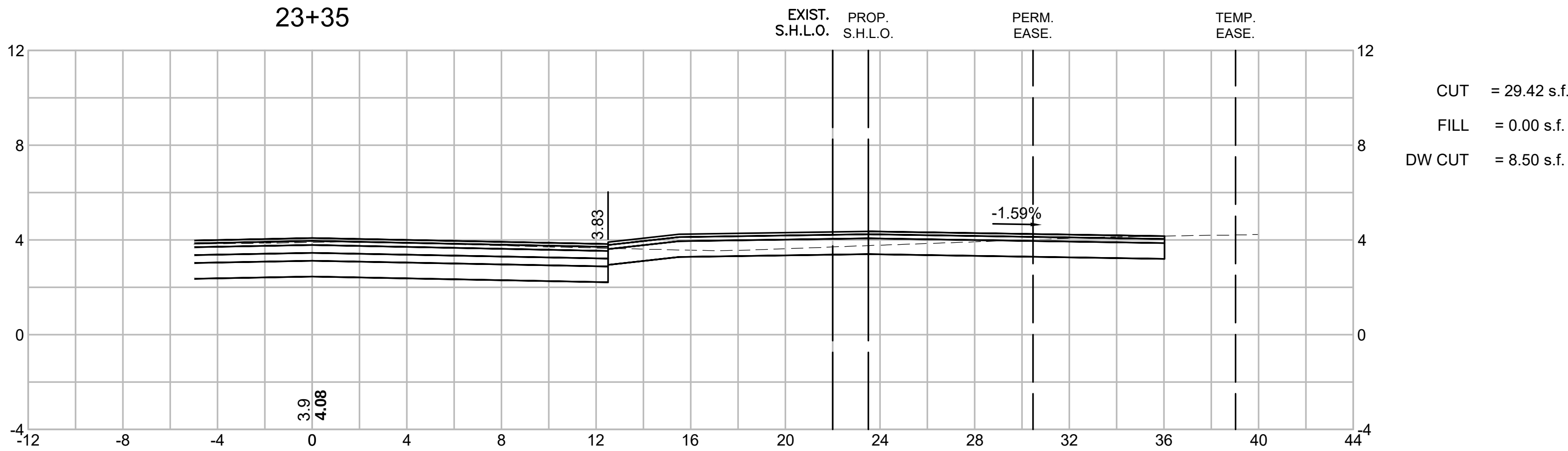
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	63	75
PROJECT FILE NO.		607411	

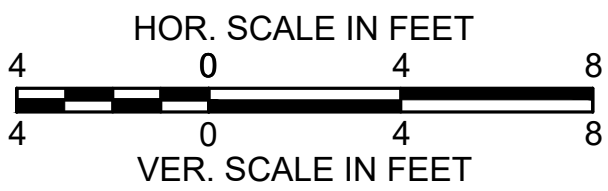
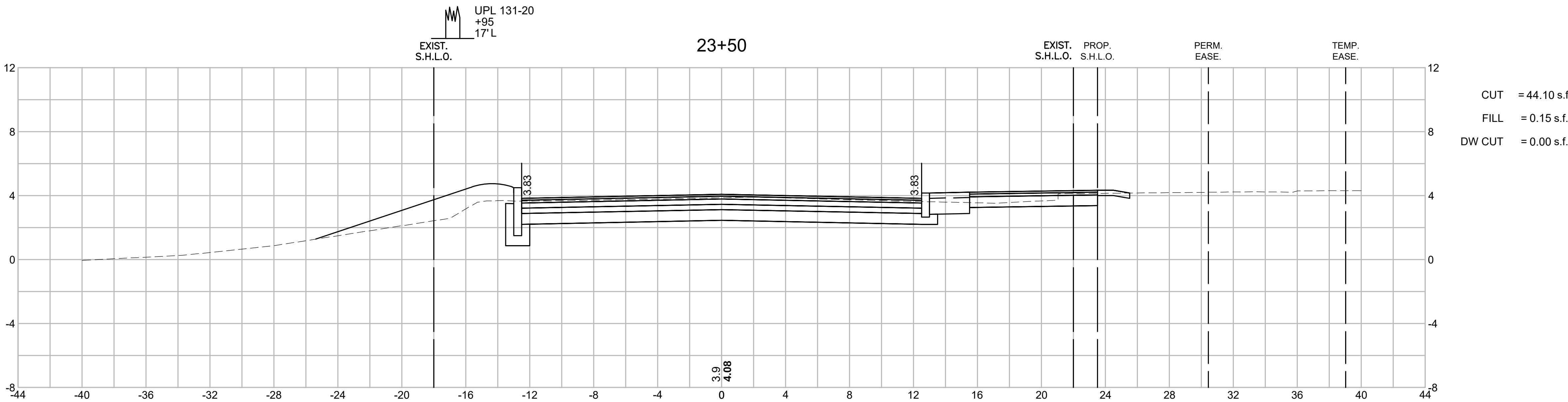
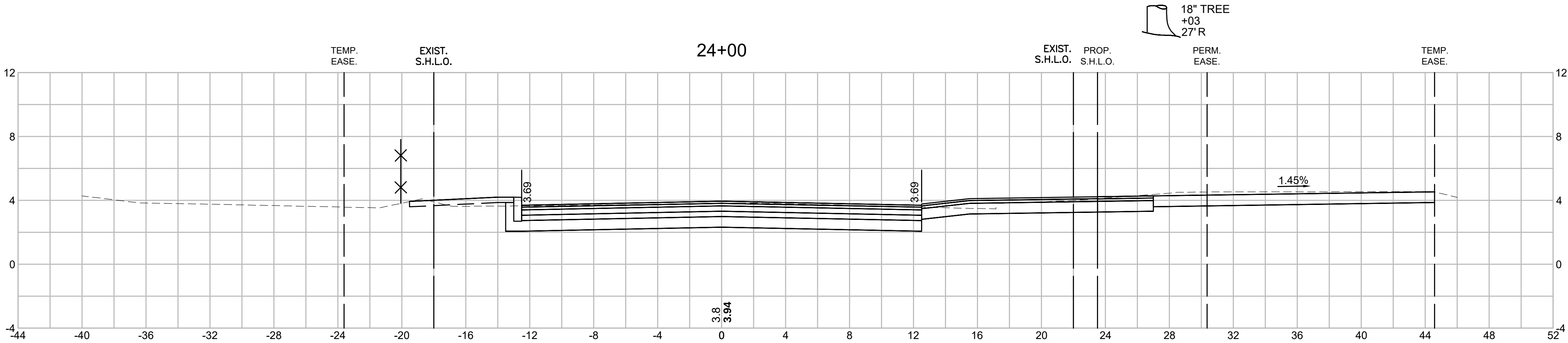
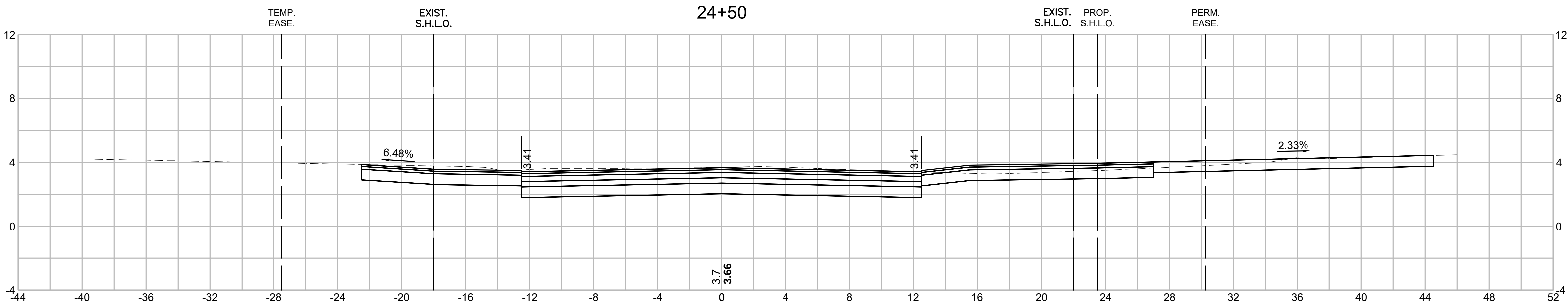
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	64	75
PROJECT FILE NO.		607411	

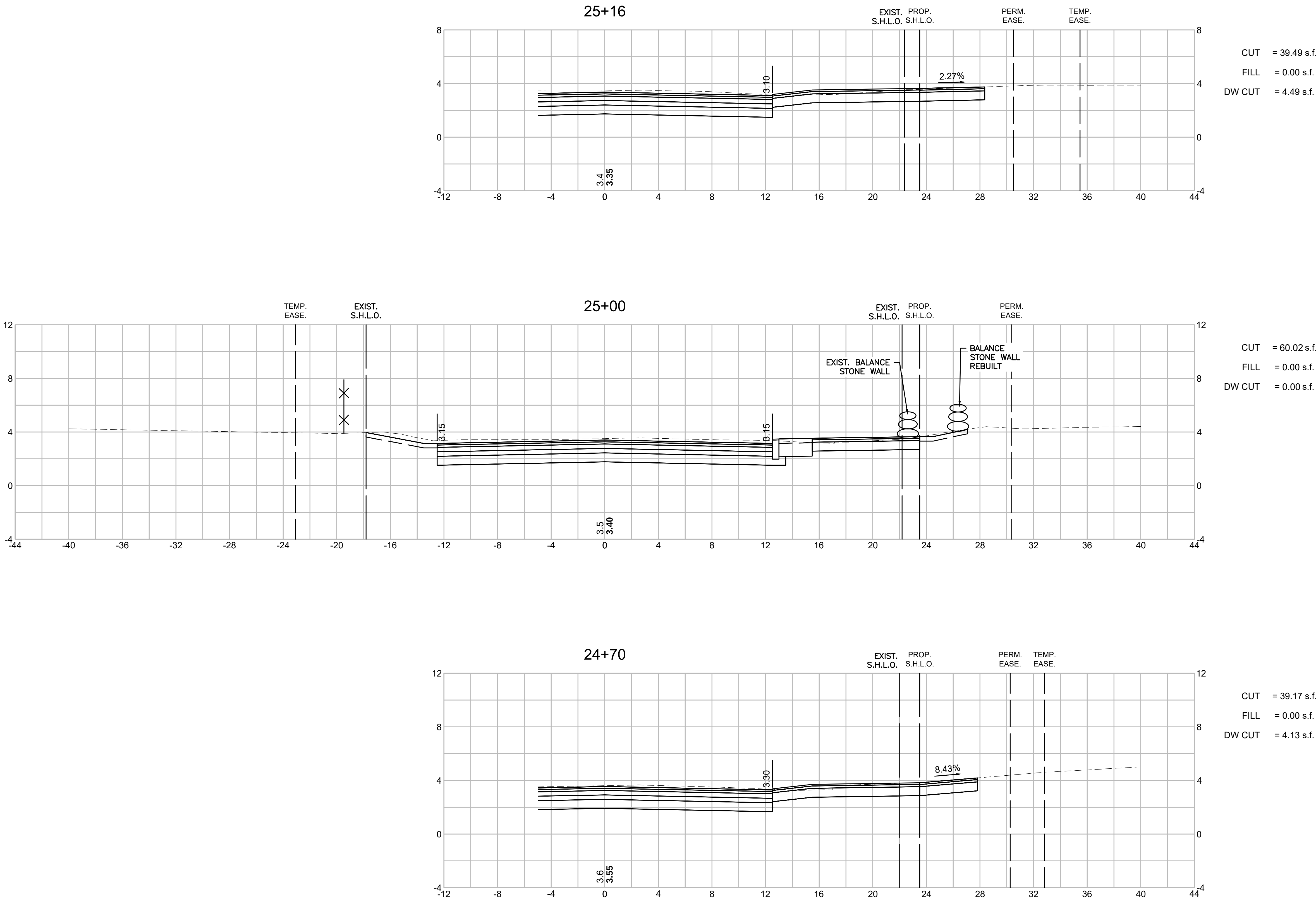
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	65	75
PROJECT FILE NO.		607411	

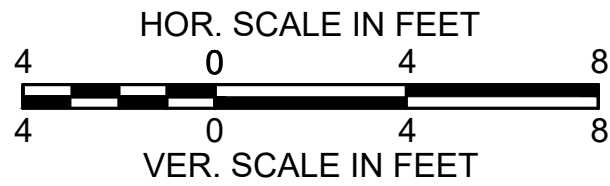
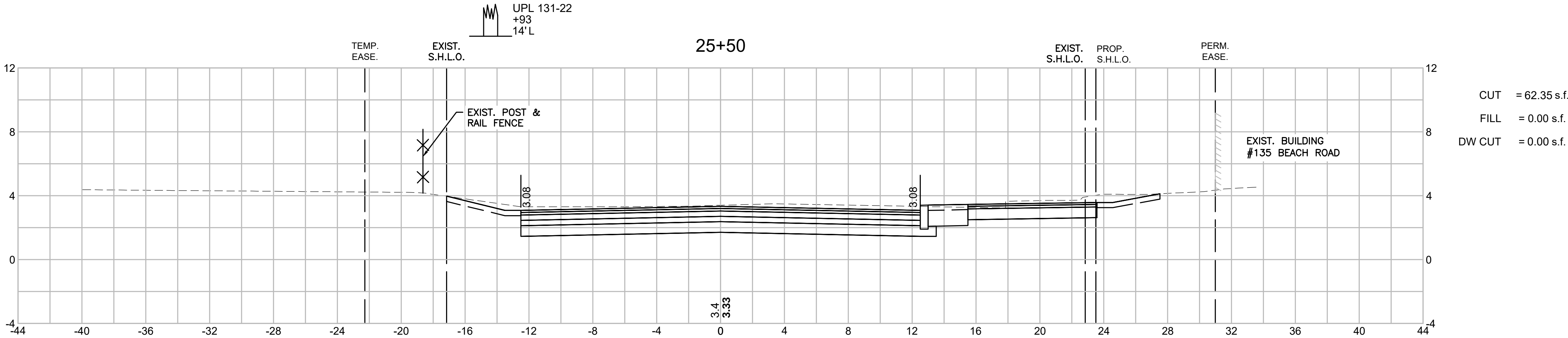
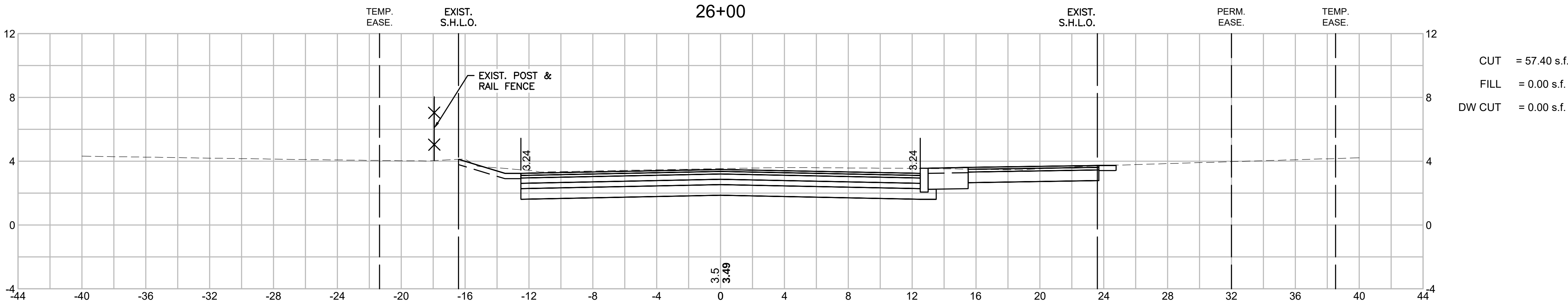
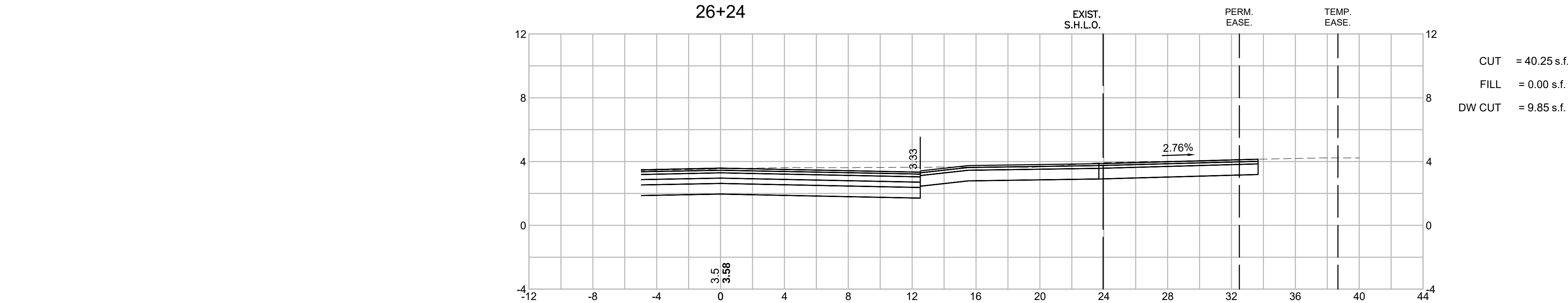
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	66	75
PROJECT FILE NO.		607411	

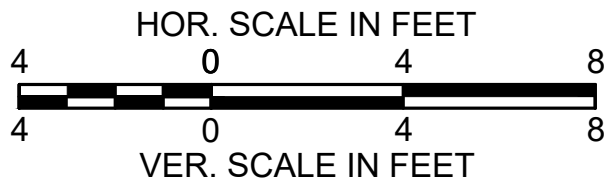
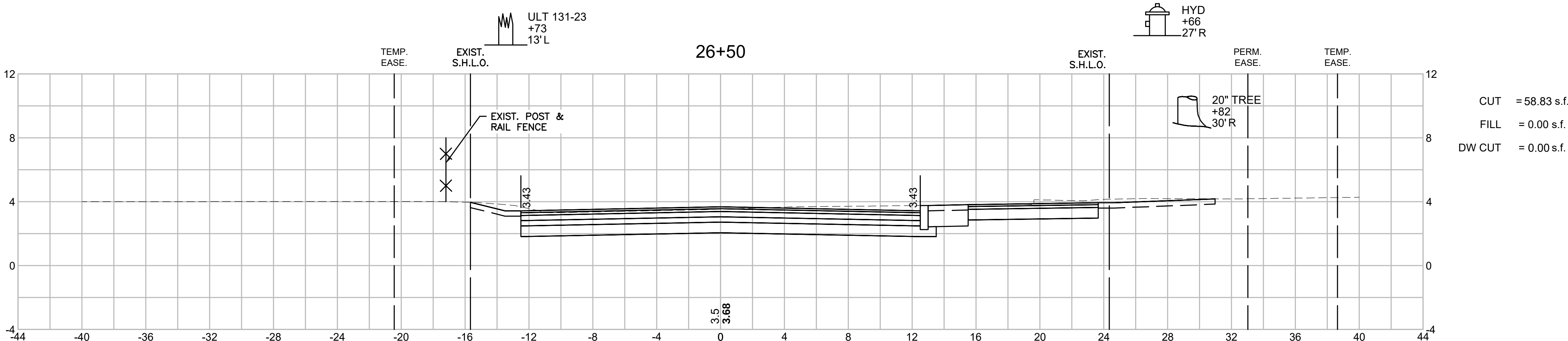
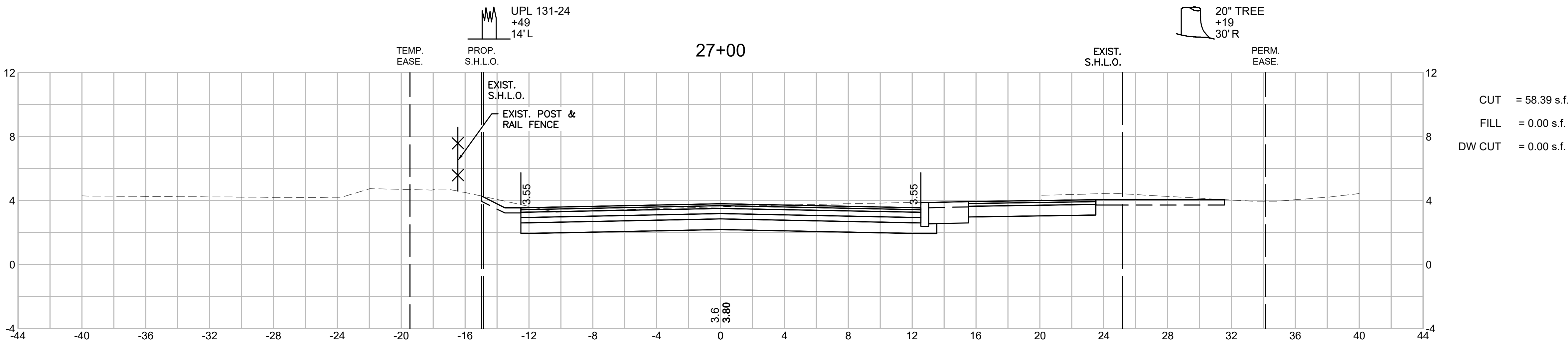
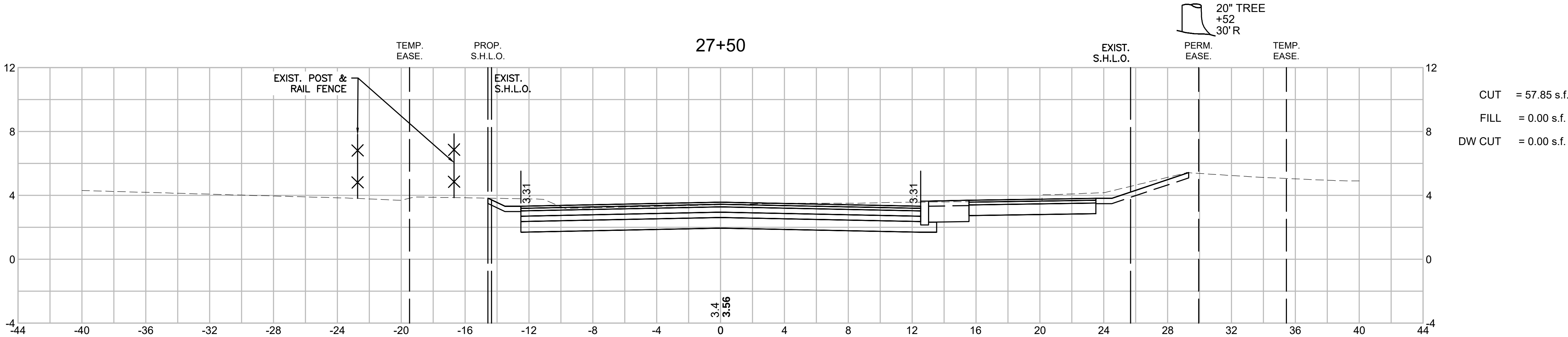
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	67	75
PROJECT FILE NO.		607411	

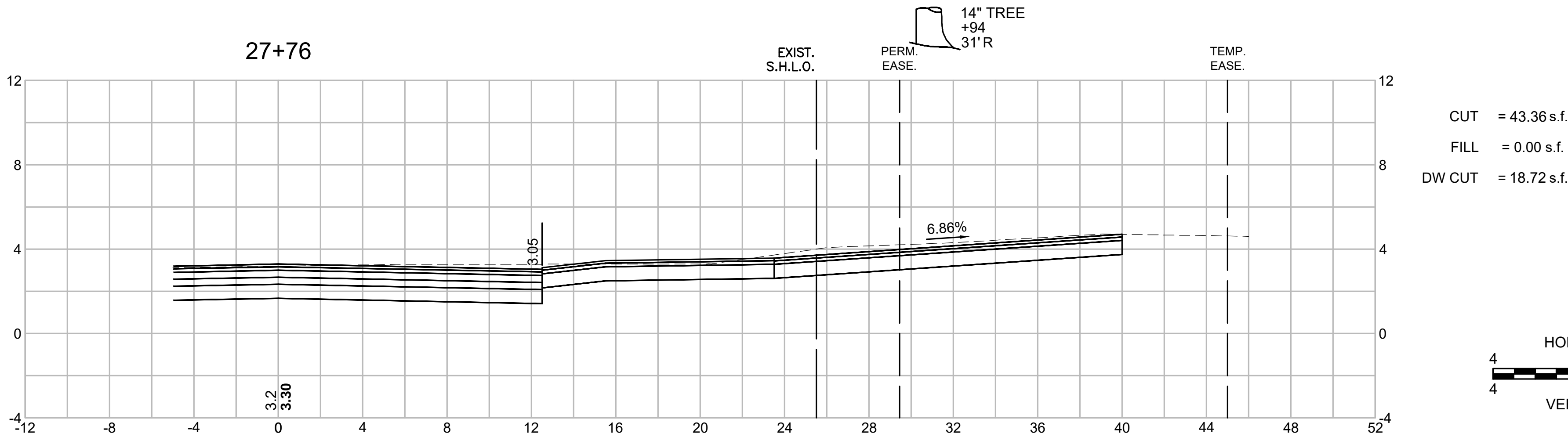
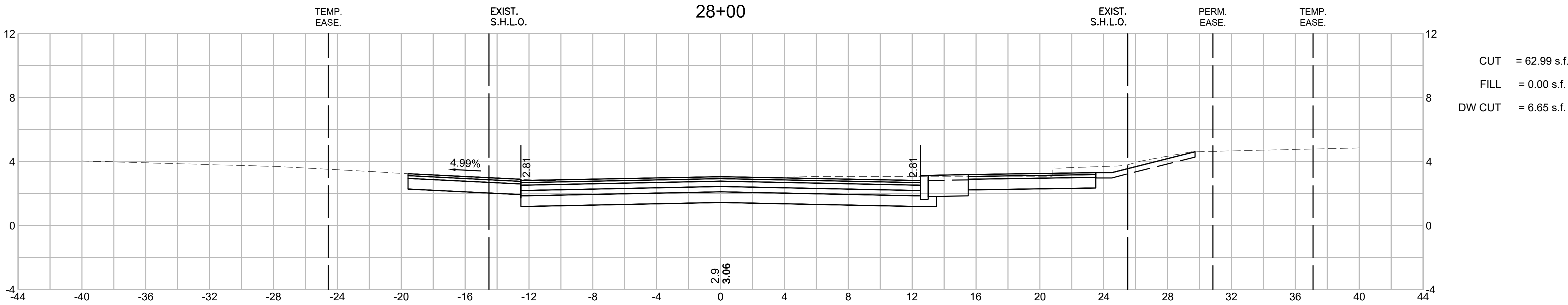
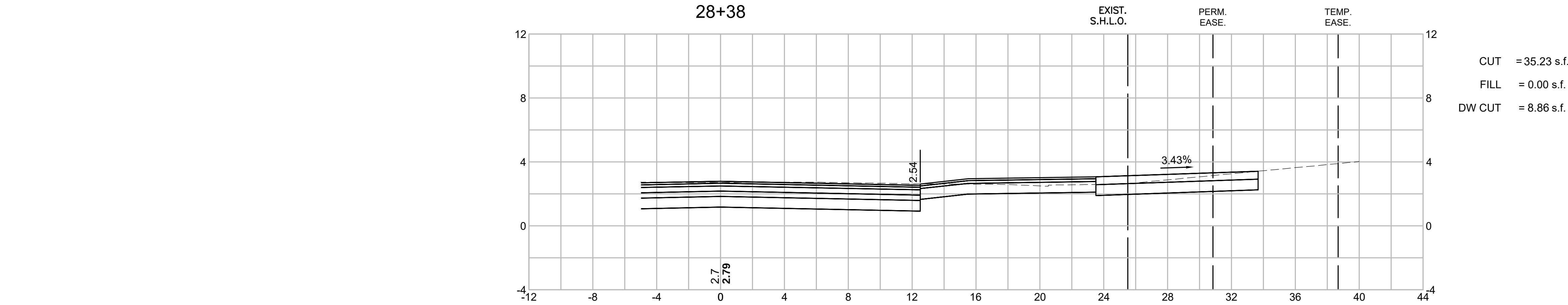
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	68	75
PROJECT FILE NO.		607411	

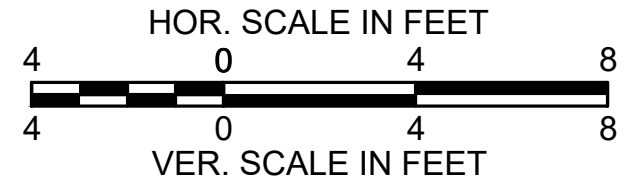
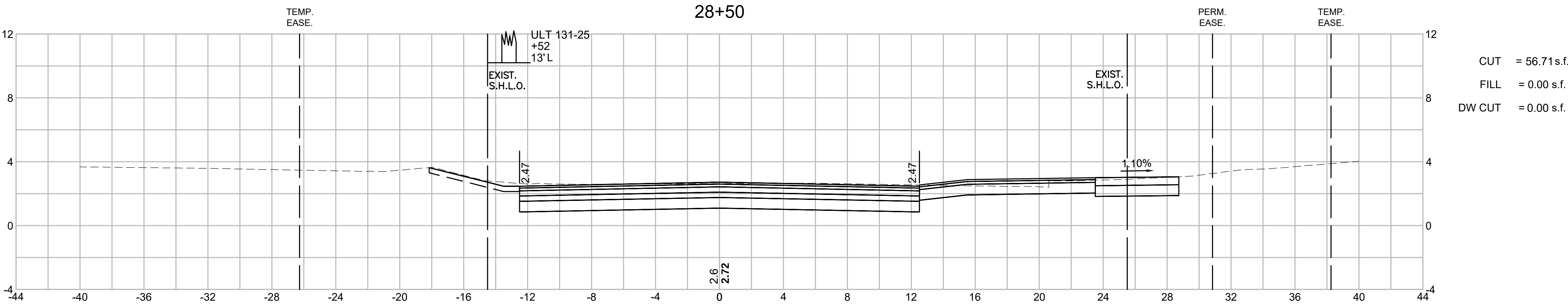
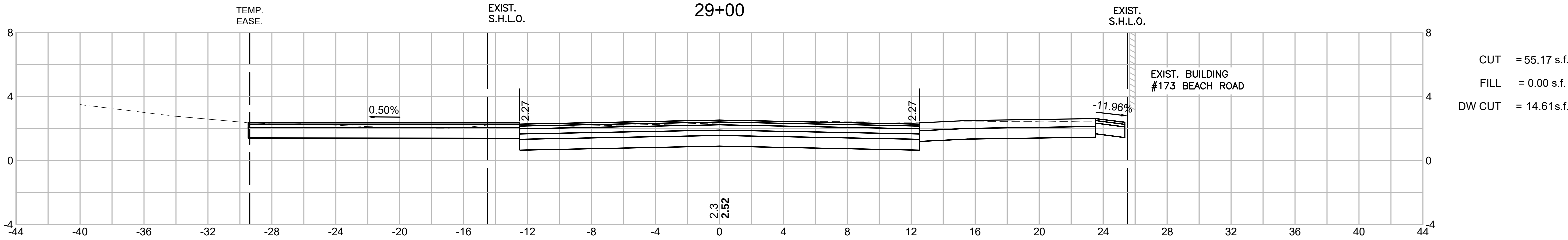
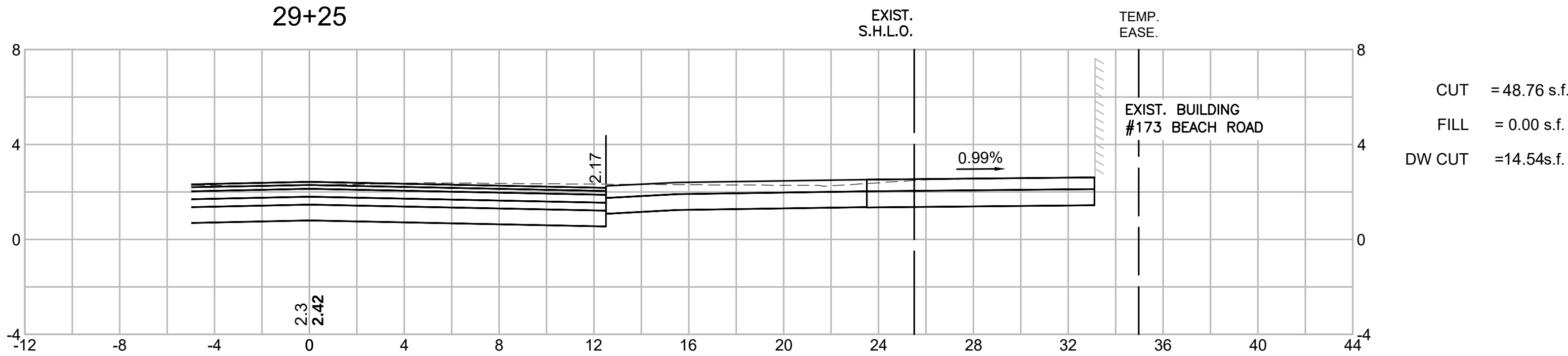
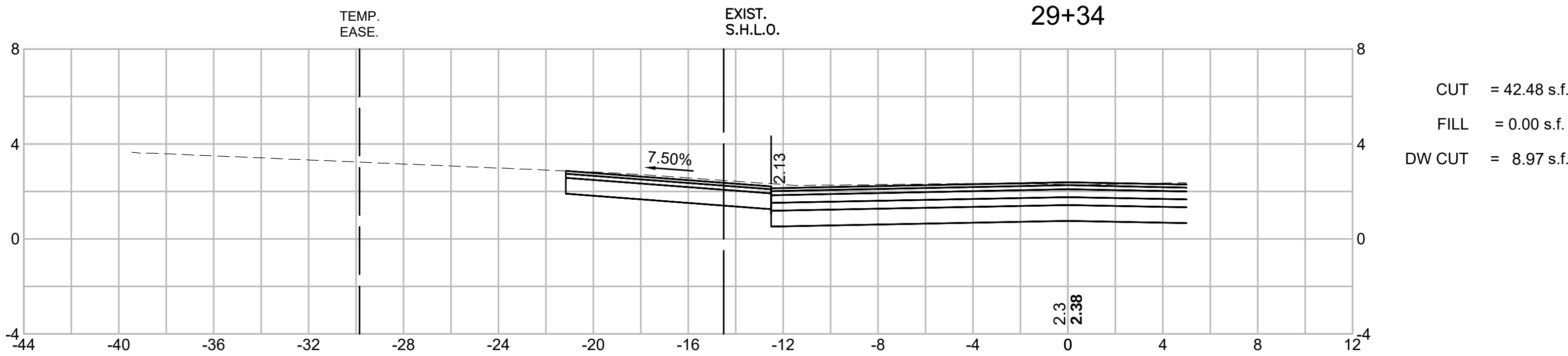
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	69	75
PROJECT FILE NO.		607411	

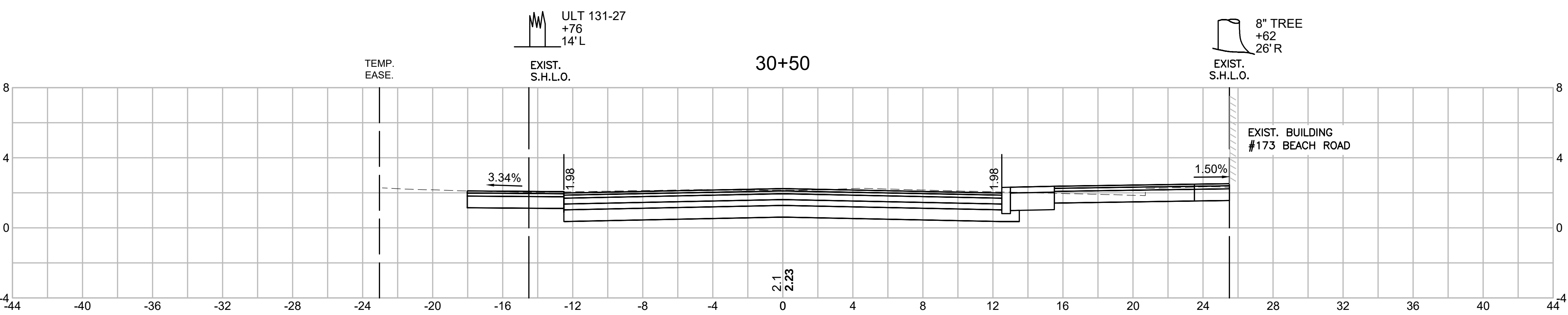
CROSS SECTIONS



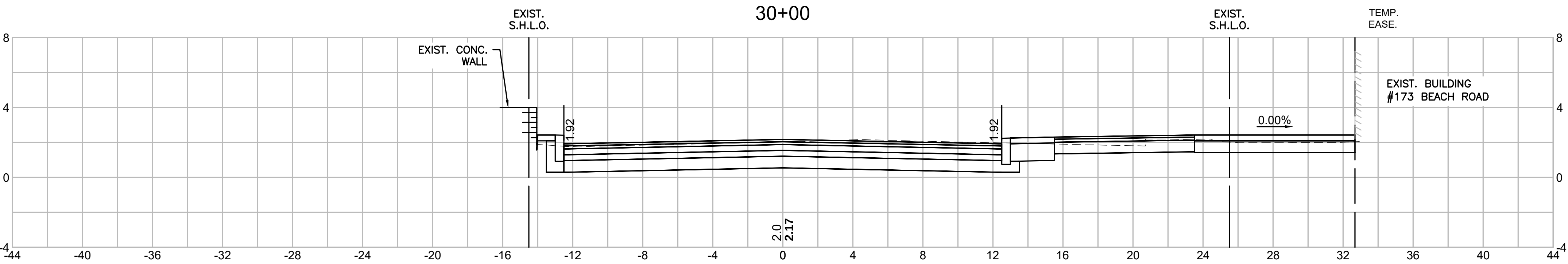
TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	70	75
PROJECT FILE NO.		607411	

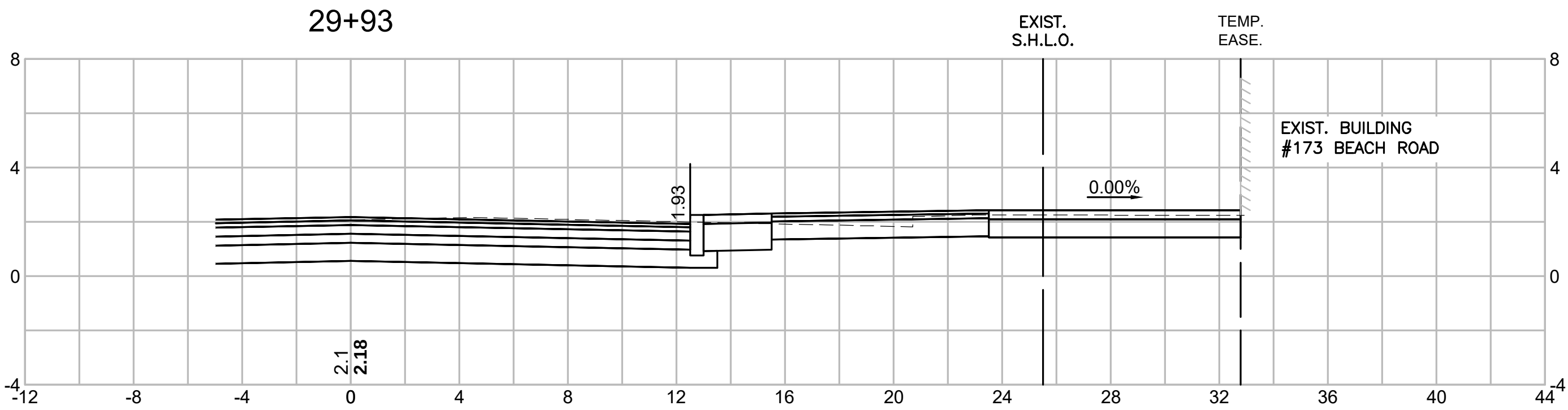
CROSS SECTIONS



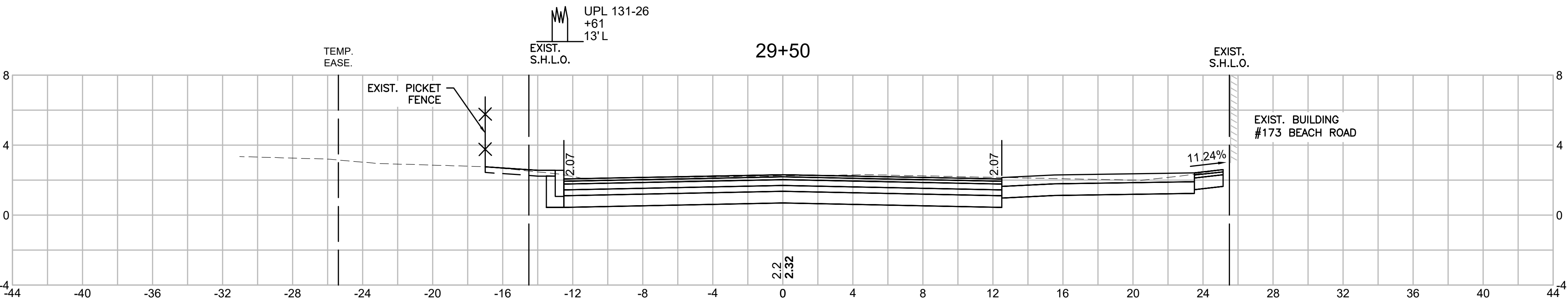
CUT = 54.72 s.f.
FILL = 0.00 s.f.
DW CUT = 6.68 s.f.



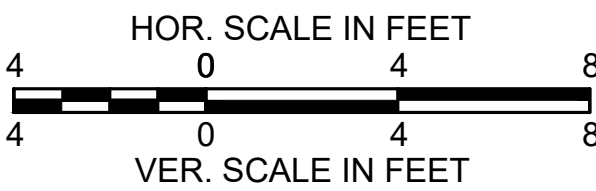
CUT = 54.05 s.f.
FILL = 0.11 s.f.
DW CUT = 0.00 s.f.



CUT = 44.65 s.f.
FILL = 0.00 s.f.
DW CUT = 0.00 s.f.

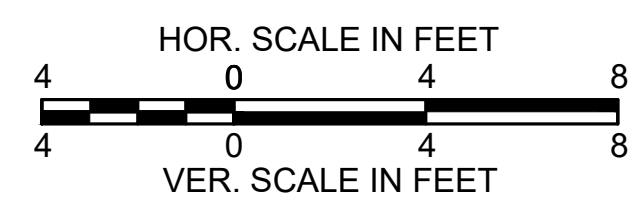
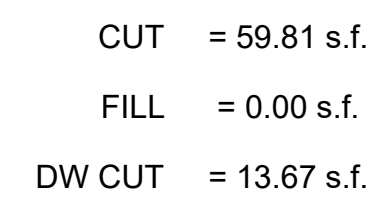


CUT = 74.38 s.f.
FILL = 0.00 s.f.
DW CUT = 1.52 s.f.



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	71	75
PROJECT FILE NO.		607411	

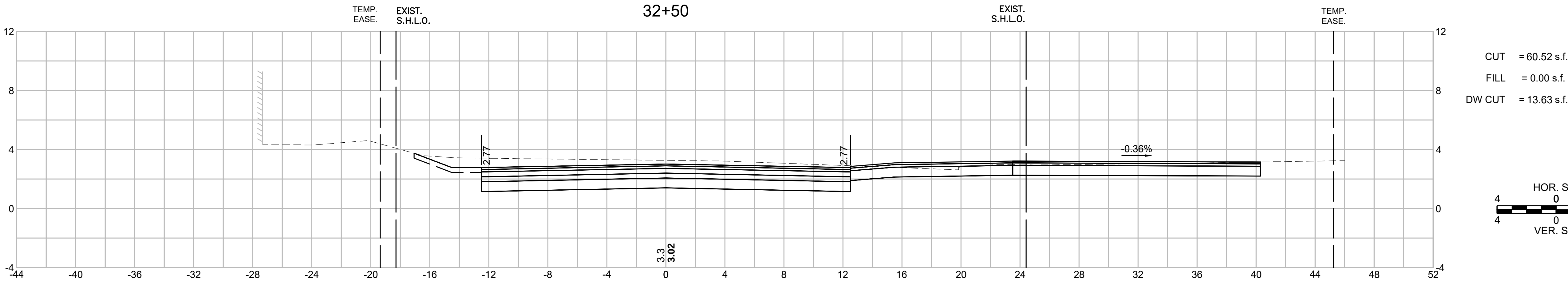
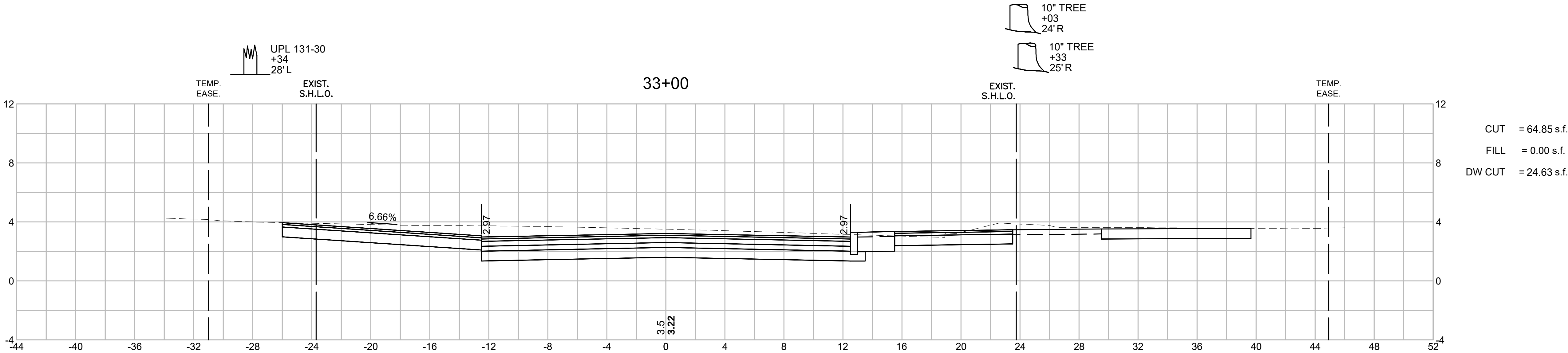
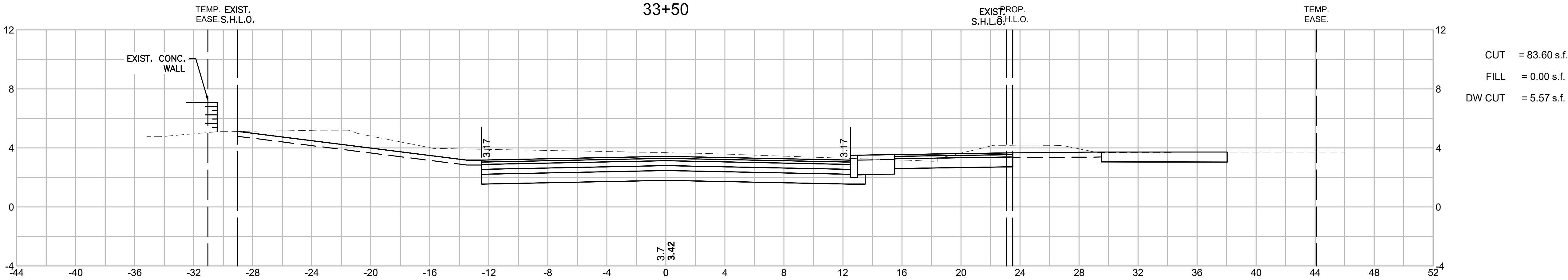
CUT = 61.59 s.f.
FILL = 0.00 s.f.
DW CUT = 12.75 s.f.



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	72	75
PROJECT FILE NO.		607411	

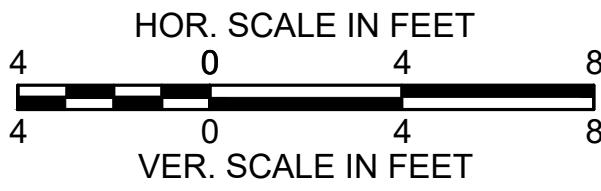
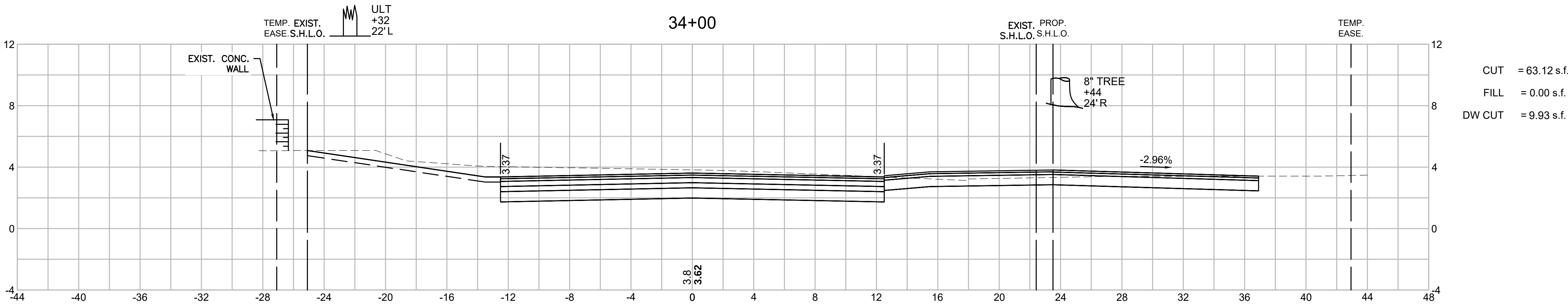
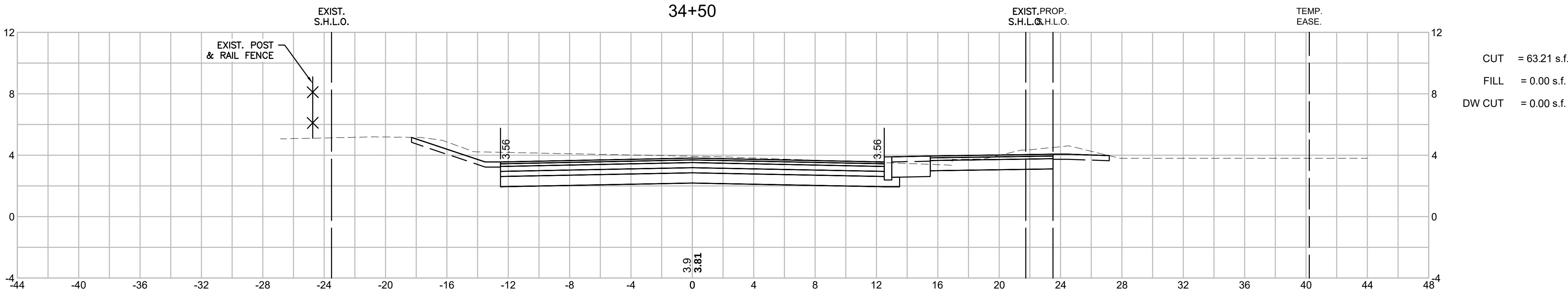
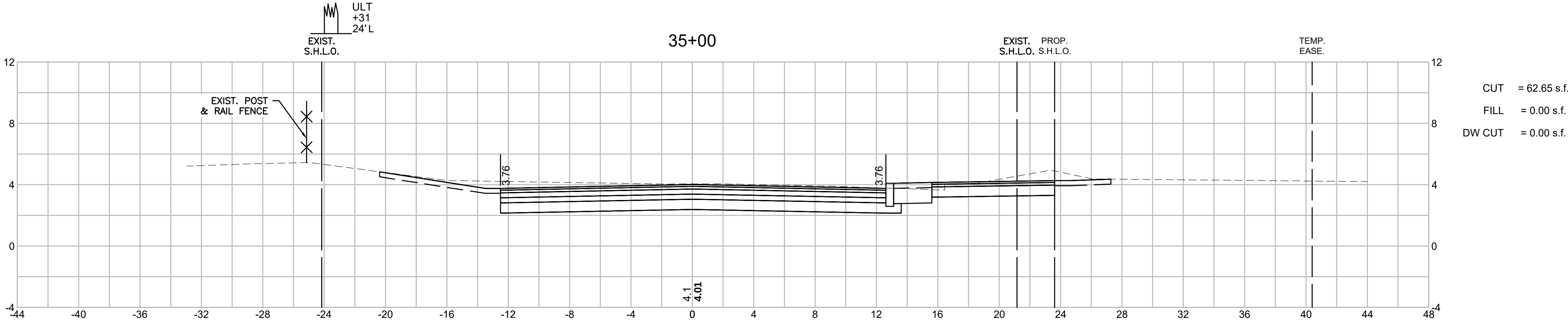
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	73	75
PROJECT FILE NO.		607411	

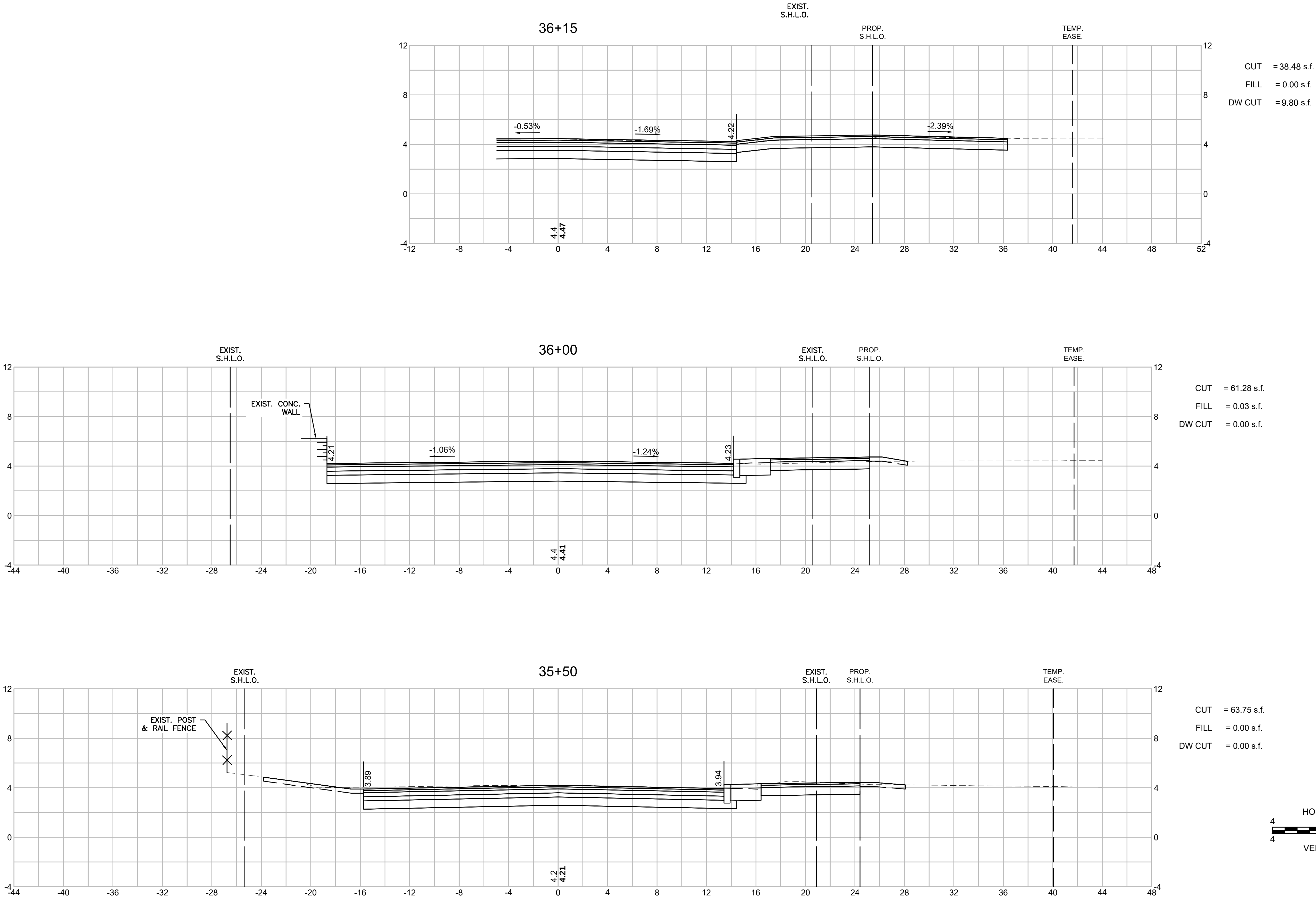
CROSS SECTIONS



TISBURY
BEACH ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	74	75
PROJECT FILE NO.		607411	

CROSS SECTIONS



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	CMQ-0035(041)X	75	75
PROJECT FILE NO.		607411	

HOR. SCALE IN FEET

4 0 4 8

VER. SCALE IN FEET

4 0 4 8

