MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

NANTUCKET IN-TOWN MULTI-USE PATH			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	—	1	31
PROJECT FILE NO. 606433			

TITLE SHEET & INDEX

NOI-COVER-3-14-2014.DWG 12-Mar-2014

PLAN AND PROFILE OF

ORANGE STREET & IN-TOWN MULTI-USE PATH

IN THE TOWN OF

NANTUCKET

NANTUCKET COUNTY

FEDERAL AID PROJECT NO.

THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988; THE SUPPLEMENTAL SPECIFICATIONS DATED JUNE 15, 2012; THE INTERIM SUPPLEMENTAL SPECIFICATIONS DATED JUNE 14, 2013; THE 2012 CONSTRUCTION STANDARD DETAILS; THE 1996 CONSTRUCTION AND TRAFFIC STANDARD DETAILS (AS RELATES TO TRAFFIC STANDARD DETAILS ONLY); THE CURRENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS; THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, AS AMENDED; THE 1968 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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16	TRAFFIC SIGN SUMMARY SHEET
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20-21	TEMPORARY TRAFFIC CONTROL PLANS
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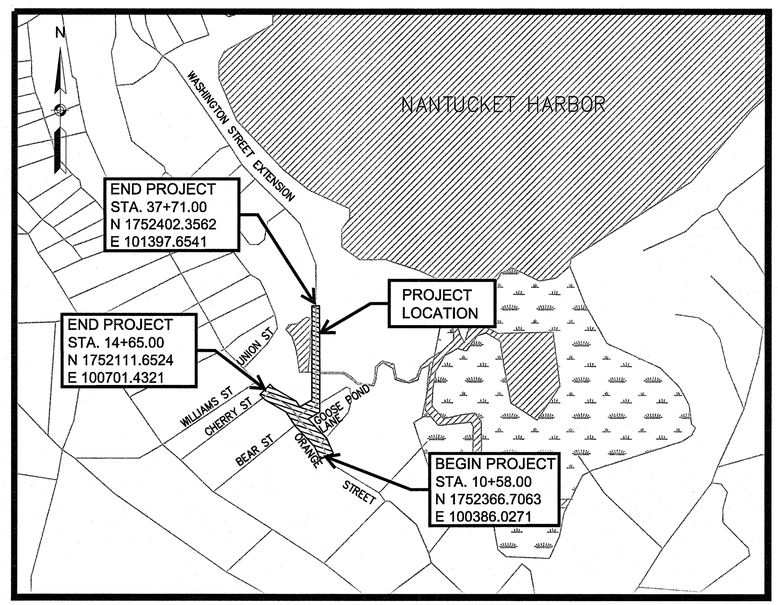
26-31	CROSS SECTIONS



1000' 0 500' 1000'

SCALE 1" = 500'

LENGTH OF PROJECT = 1,265.00 FEET = 0.240 MILES

MARCH 14, 2014

NOTICE OF INTENT

DESIGN DESIGNATION (ORANGE STREET)

DESIGN SPEED	30 MPH
ADT (2010)	14,951
ADT (2030)	16,515
K	7.0%
D	54.7% (WB)
T (PEAK HOUR)	--
T (AVERAGE DAY)	--
DHV	1,139 VPH
DDHV	623 VPH (WB)
FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL

DESIGN DESIGNATION (IN-TOWN MULTI-USE PATH)

DESIGN SPEED	20 MPH
ADT (2010)	–
ADT (2030)	–
K	–
D	–
T (PEAK HOUR)	–
T (AVERAGE DAY)	–
DHV	–
DDHV	–
FUNCTIONAL CLASSIFICATION	MULTI-USE PATH

DATE	DESCRIPTION	REV #

COMMONWEALTH OF MASSACHUSETTS MATTHEW J. HAYES CIVIL No. 41652 REGISTERED PROFESSIONAL ENGINEER 3-12-2014

PREPARED BY:
VANASSE HANGEN BRUSTLIN, INC.
101 WALNUT STREET
WATERTOWN, MA 02471

massDOT Massachusetts Department of Transportation Highway Division

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER DATE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

APPROVED

HIGHWAY ADMINISTRATOR DATE

LEGEND

GENERAL SYMBOLS

EXISTING	PROPOSED	
JB OR BRJB	JB OR BRJB	JERSEY BARRIER ON BRIDGE OR JERSEY BARRIER
CB	CB	CATCH BASIN
CI	CI	CURB INLET
	BUOY	BUOY
	FPL	FLAG POLE
		GAS PUMP
DI	DI	DROP INLET
MB	MB	MAIL BOX
GR	GRAN POST	GRANITE POST
PLN	PLANTER	PLANTER
PST	POST	POST
TBH	TBH	TELEPHONE BOOTH
VLT	VLT	VAULT
VLV	VLV	VALVE
WELL	WELL	WELL
EHH	EHH	ELECTRIC MANHOLE (HANDHOLE)
FCGA		GATE POST
FL	FL	FLOW LINE
GG		GAS GATE
BH	BH	BORING HOLE
		MONITORING WELL
	TEP	TEST PIT
HC	CONC. HDWL	CONCRETE HEADWALL
HH		HANDHOLE
HS	STONE DHWL	STONE HEADWALL
HYD	HYD	HYDRANT
LPL	LPL	LIGHT POLE
CO. BO.	CO. BD.	COUNTY BOUND
GPS		GPS POINT
CMH		CABLE MANHOLE
DMH	D	DRAINAGE MANHOLE
EMH		ELECTRIC MANHOLE
GMH		GAS MANHOLE
MMH		MISC MANHOLE
OMH		OTHER MANHOLE
SMH	S	SEWER MANHOLE
TMH		TELEPHONE MANHOLE
WMH		WATER MANHOLE
MHB	MHB	MHD BOUND
MON	MON	MONUMENT
SB	SB	STONE BOUND
TOWN OR CITY BD.	TOWN OR CITY BD.	TOWN OR CITY BOUND
	TSN	TRAVERSE OR TRIANGULATION STATION
TPL OR GUY	TPL OR GUY	TROLLEY POLE OR GUY POLE
TRNP		TRANS. POLE
UFB	UFB	UP W ITH FIREBOX
LPDL	LPDL	POLE WITH DOUBLE LIGHT
ULT	ULT	UP W ITH 1 LIGHT
UPL	UPL	UTILITY POLE
	BUSH	BUSH
		TREE
STUMP		STUMP
		SWAMP / MARSH
WG	WG	WATER GATE
FA	FA	FIRE ALARM BOX
PM	PM	PARKING METER
		ELECTRICAL GROUND
	GV	GATE VALVE
		RIP RAP
		OVERHEAD CABLE
		DIRECT BURIAL CABLE
		CURBING
185	185	CONTOURS
		DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		ELECTRIC DUCT " "
		GAS MAIN " "
		SEWER MAIN " "
		TELEPHONE DUCT " "
		WATER MAIN " "
		BALANCE STONE WALL
		CULVERT
		GUARD RAIL
		GUTTER LINE AT DRIVEWAYS
CLF		CHAIN LINK FENCE
		CEDAR SPLIT RAIL FENCE

GENERAL SYMBOLS (CONT.)

EXISTING	PROPOSED	
		COMPOST FILTER TUBE
		STEEL SHEETING RETAINING WALL
		TREE LINE OR LIMIT OF CLEARING AND GRUBBING
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLAN & OVERLAY
		BANK OF RIVER OR STREAM
WF-#		BORDER OF WETLAND
		100 FT WETLAND OR 200 FT RIVERFRONT BUFFER
DATE OF LAYOUT		STATE HIGHWAY LAYOUT
DATE OF LAYOUT		TOWN OR CITY LAYOUT
DATE OF LAYOUT		COUNTY LAYOUT
R.R. S/L		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
ℙ OR APPROX. ℙ		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT
		FULL DEPTH PAVEMENT

PAVEMENT MARKINGS AND SIGNING SYSBOLS

EXISTING	PROPOSED	
ONLY	ONLY	PAVEMENT ARROW - WHITE
	ONLY	LEGEND "ONLY" - WHITE
	SL	STOP LINE - 12"
	CW	CROSSWALK
	SWLL	SOLID WHITE LANE LINE
	BWLL	BROKEN WHITE LANE LINE (10' LINE, 30' SPACE TYP.)
	SWEL	SOLID WHITE EDGE LINE
	YGL	YELLOW GORE LINE - 12"
	DYCL	DOUBLE YELLOW CENTER LINE
	SWCHL	SOLID WHITE CHANNELIZATION LINE - 8"
	WGL	WHITE GORE LINE - 12"
	SYEL	SOLID YELLOW EDGE LINE
	BYCL	BROKEN YELLOW CENTER LINE (10' LINE, 30' SPACE TYP.) - 4"
	SYCL	SOLID YELLOW CENTER LINE
	DWLL	DOTTED WHITE LANE LINE - 4" (2' LINE, 4' SPACE)
		DIRECTION OF TRAFFIC FLOW
		SIGN AND POST
		SIGN AND POST (TWO POSTS)

NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	2	31
PROJECT FILE NO. 606433			

LEGEND, ABBREVIATIONS, & GENERAL NOTES

GENERAL NOTES

1. TOPOGRAPHICAL AND WETLAND INFORMATION FROM A PLAN BY GREENMAN-PEDERSEN, INC. ENTITLED "TOWN OF NANTUCKET - IN-TOWN BIKE PATH" (UNDATED). HORIZONTAL DATUM: NAD83, VERTICAL DATUM: NAVD88.
2. 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 SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
3. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
4. THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK CONFORMING TO M4.05.2.
5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
6. TREES AND SHRUBS WITHIN THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.
7. CONTRACTOR TO INSPECT AND REMOVE PIPE SEDIMENTS AS DIRECTED BY THE ENGINEER WITHIN THE PROJECT LIMITS INCLUDING PIPES THAT DISCHARGE TO SPY POND.
8. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
9. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
10. ALL LATERAL DRAIN PIPES SHALL BE INSTALLED WITH A PITCH OF .01 FOOT PER FOOT (MINIMUM) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
11. ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATION ARE NOT GUARANTEED.
12. THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND FALLS WITHIN THE NPDES CONSTRUCTION GENERAL PERMIT (CGP) PROGRAM AND EPA JURISDICTION. PRIOR TO THE START OF CONSTRUCTION CONTRACTOR IS TO FILE A CGP NOTICE OF INTENT WITH THE EPA AND PREPARE A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE NPDES REGULATIONS. CONTRACTOR SHALL CONFIRM THE OWNER HAS ALSO FILED A NOTICE OF INTENT WITH THE EPA.
13. WETLAND BOUNDARIES ARE BASED ON THE MASSGIS WETLANDS DATA LAYER AND REVIEWED IN THE FIELD BY A VHB ENVIRONMENTAL SCIENTIST. THE BOUNDARIES WERE REVISED AS NEEDED ON THE PLANS TO REFLECT EXISTING CONDITIONS IN THE FIELD. THE JURISDICTIONAL STATUS OF THE WETLAND RESOURCE AREAS WAS DETERMINED DURING THE FIELD INVESTIGATION.
14. CONTRACTOR TO REMOVE INVASIVE SPECIES WITHIN THE PROJECT LIMITS. SEE SPECIAL PROVISION 102.3

ABBREVIATIONS

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

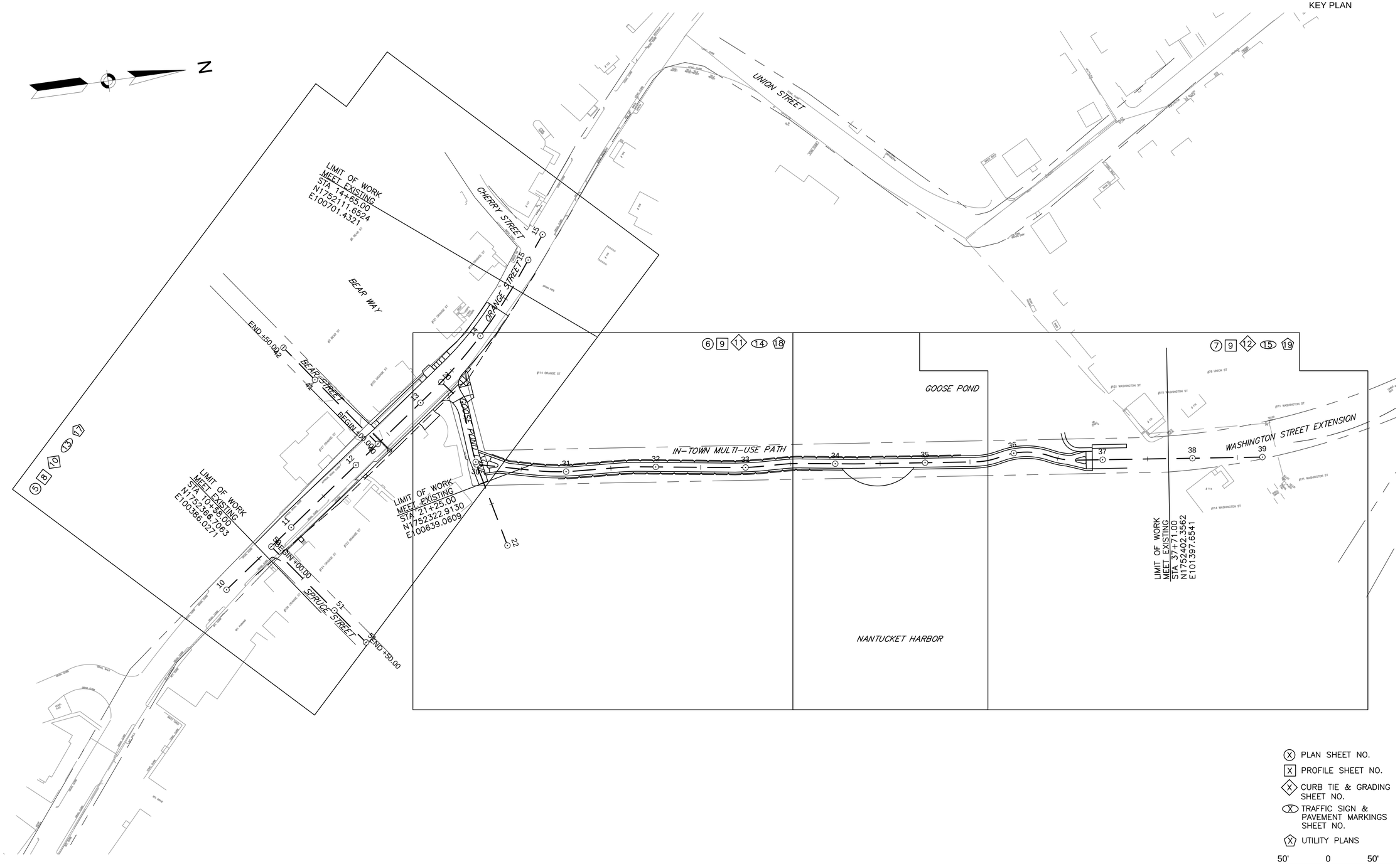
606433-HD2 (LEG).DWG 24-Jan-2014

MassDOT DWT Version:

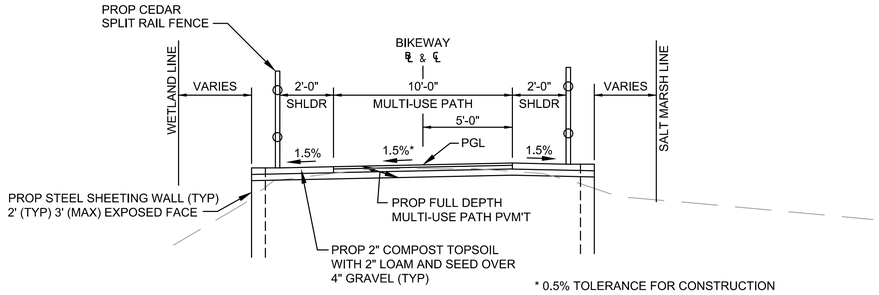
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	3	31
PROJECT FILE NO. 606433			

KEY PLAN

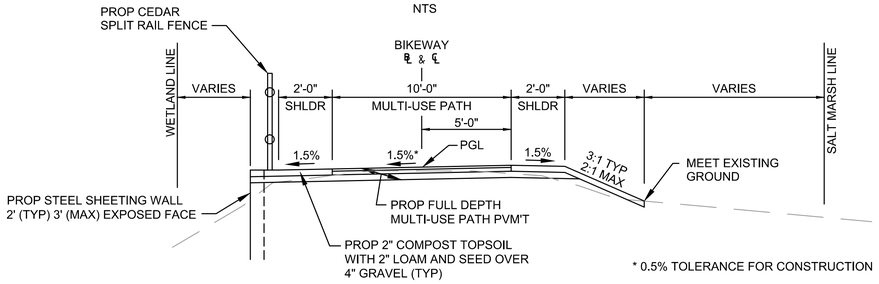


606433-HD3 (KEY).DWG 24-Jan-2014



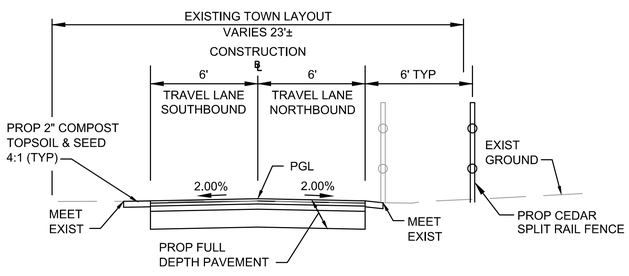
TYPICAL MULTI-USE PATH SECTION

STA 30+93± TO STA 33+85±
NTS



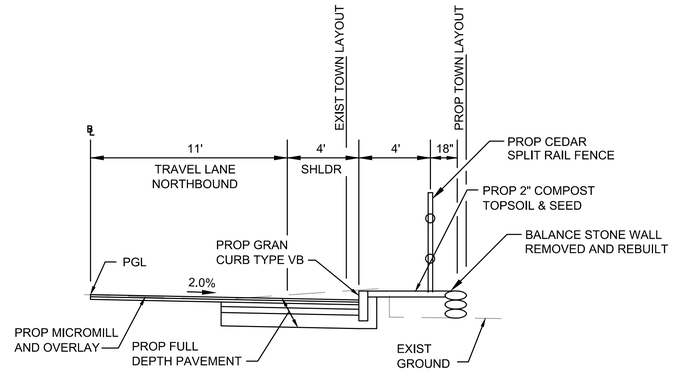
TYPICAL MULTI-USE PATH SECTION

STA 33+85± TO STA 35+40±
NTS



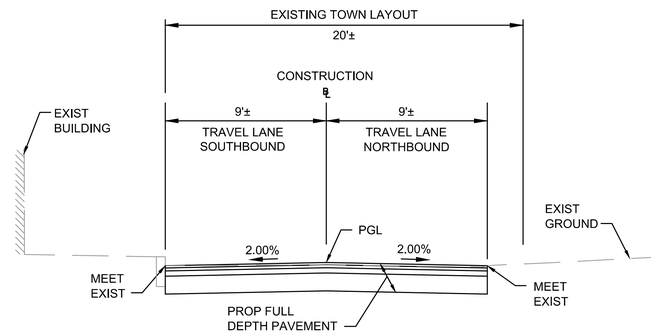
TYPICAL GOOSE POND LANE SECTION

STA 20+35± TO STA 20+90±
NTS



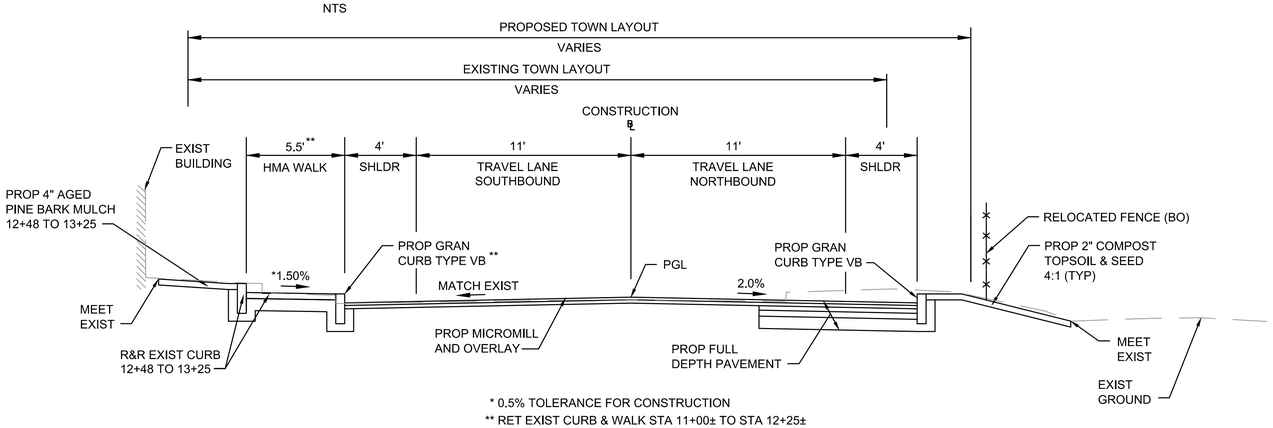
TYPICAL ORANGE STREET RETAINING WALL SECTION

STA 12+09± TO STA 12+75±
NTS



TYPICAL BEAR STREET SECTION

STA 40+15± TO STA 40+98±
NTS



* 0.5% TOLERANCE FOR CONSTRUCTION
** RET EXIST CURB & WALK STA 11+00± TO STA 12+25±

TYPICAL ORANGE STREET SECTION

STA 11+00± TO STA 13+08±
NTS

PAVEMENT NOTES

PROPOSED FULL DEPTH MULTI-USE PATH PAVEMENT

SURFACE: 1.5" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER

BASE: 2.5" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)

SUBBASE: 8" GRAVEL BORROW, TYPE b

PROPOSED FULL DEPTH PAVEMENT

SURFACE: 1.5" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER
2.0" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5)

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

SUBBASE: 4" DENSE GRADED CRUSHED STONE OVER
8" GRAVEL BORROW

PROPOSED FULL DEPTH PAVEMENT (LESS THAN 4.0' WIDE)

SURFACE: 1.5" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER
2.0" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC 12.5)

BASE: 6" HIGH EARLY STRENGTH CEMENT
CONCRETE BASE COURSE

SUBBASE: 8" GRAVEL BORROW

PROPOSED MICROMILL & OVERLAY

SURFACE: 1.5" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER
2.0" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5)

MILLING: 1.75" PAVEMENT MICROMILLING

LEVELING COURSE: [AS REQUIRED] VARIABLE DEPTH SUPERPAVE INTERMEDIATE COURSE (SIC-12.5)

ASPHALT EMULSION FOR TACK COAT AT 0.07 GAL/SY OVER MILLED SURFACES 0.05 GAL/SY OVER SMOOTH SURFACES

PROPOSED HOT MIX ASPHALT DRIVEWAY

SURFACE: 1.5" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER
2.0" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5)

FOUNDATION: 8" GRAVEL BORROW, TYPE b

PROPOSED HOT MIX ASPHALT WALK

SURFACE: 1.0" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER
1.5 SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5)

FOUNDATION: 8" GRAVEL BORROW, TYPE b

PROPOSED CEMENT CONCRETE WALK/ WHEELCHAIR RAMP

SURFACE: 4" CEMENT CONCRETE
AIR ENTRAINED 4000 PSI, 3/4", 610

FOUNDATION: 8" GRAVEL BORROW, TYPE b

BRICK WALK

SURFACE: BRICK
CEMENT/SAND SWEPT JOINTS

BASE: MORTAR SETTING BED OVER
6" CEMENT CONCRETE
AIR ENTRAINED 4000 PSI, 3/4", 610

FOUNDATION: 6" GRAVEL BORROW, TYPE b

PRECAST CONCRETE PAVERS

SURFACE: PRECAST CONCRETE PAVERS
STONE DUST SWEPT JOINTS

BASE: 1" SAND SETTING BED OVER
TYPE I GEOTEXTILE FABRIC

FOUNDATION: 8" GRAVEL BORROW, TYPE b

SEASHELL WALK

SURFACE: 3" CRUSHED SEASHELLS

FOUNDATION: 6" GRAVEL BORROW, TYPE b

GRANITE BLOCK PAVEMENT

SURFACE: GRANITE BLOCK PAVERS
STONE DUST SWEPT JOINTS

BASE: 4" STONE DUST

FOUNDATION: 8" GRAVEL BORROW

606433-HD4 (TYP).DWG 24-Jan-2014

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

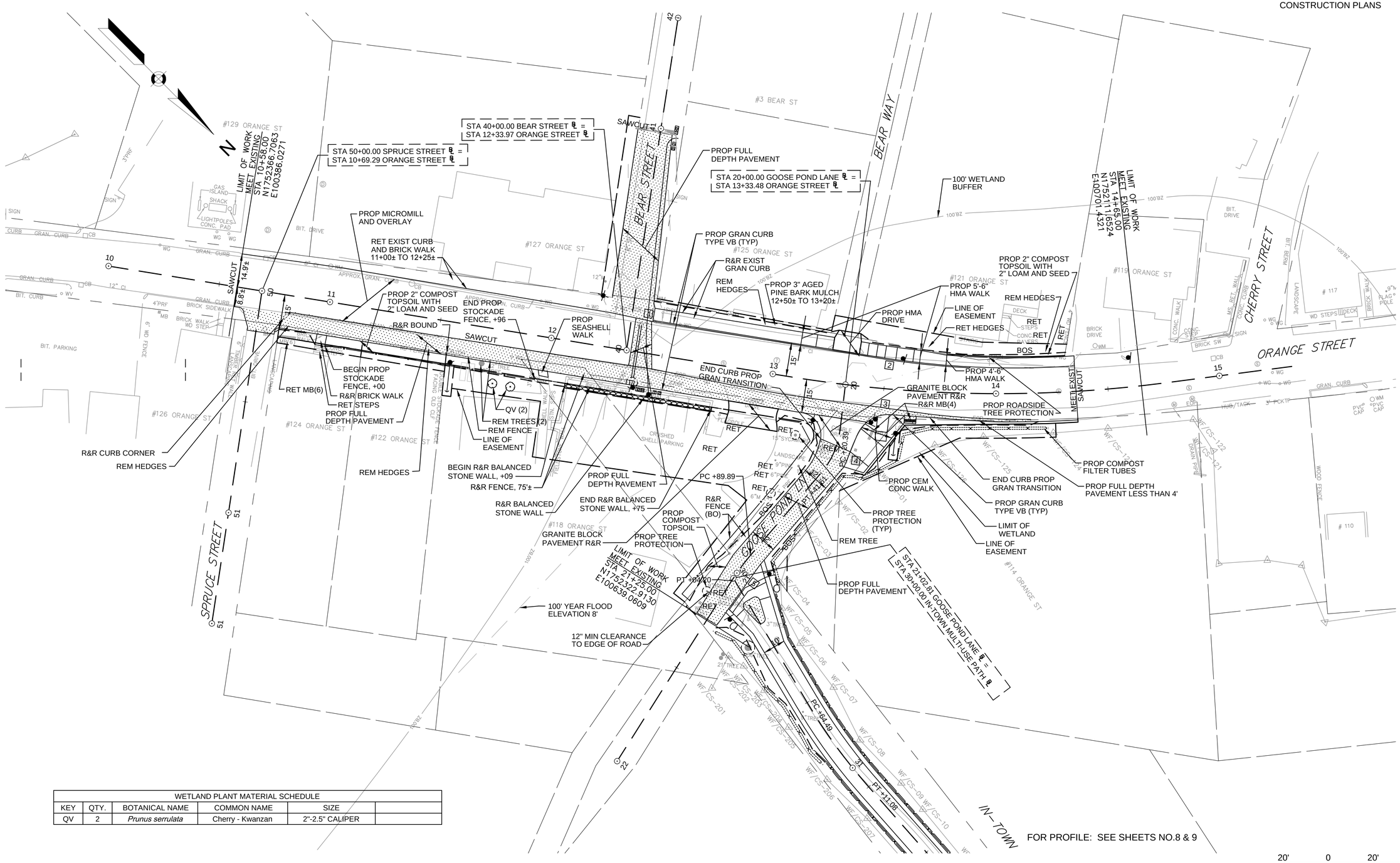
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	5	31
PROJECT FILE NO. 606433			

CONSTRUCTION PLANS

24-Jan-2014

606433-HD6 (GEN).DWG



WETLAND PLANT MATERIAL SCHEDULE					
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	
QV	2	*Prunus serrulata*	Cherry - Kwanzan	2"-2.5" CALIPER	

FOR PROFILE: SEE SHEETS NO.8 & 9

20' 0 20' 40'

SCALE 1" = 20'

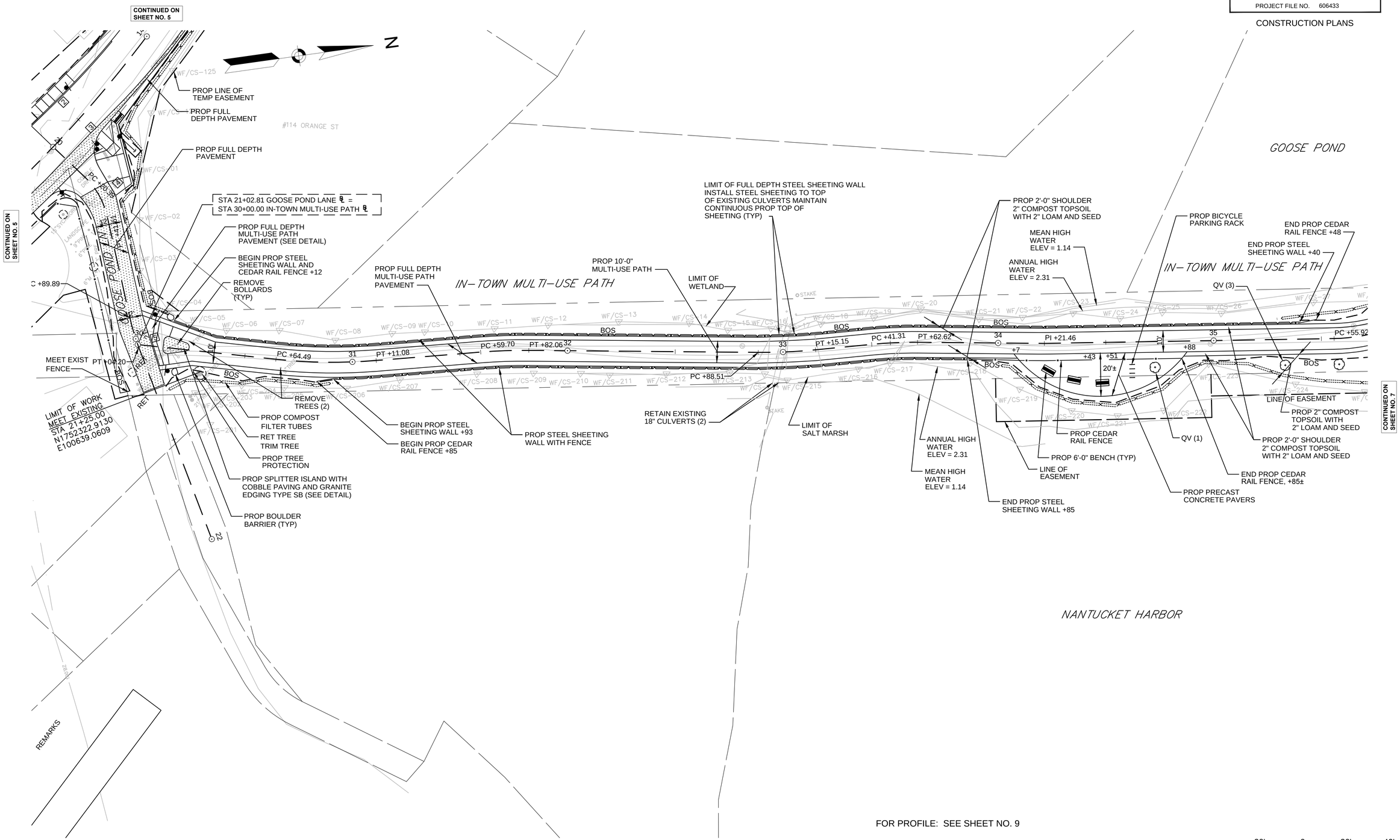
HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	NONE	NONE

NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	6	31
PROJECT FILE NO. 606433			

CONSTRUCTION PLANS

606433-HD6 (GEN).DWG 13-Mar-2014



FOR PROFILE: SEE SHEET NO. 9

20' 0 20' 40'
SCALE 1" = 20'

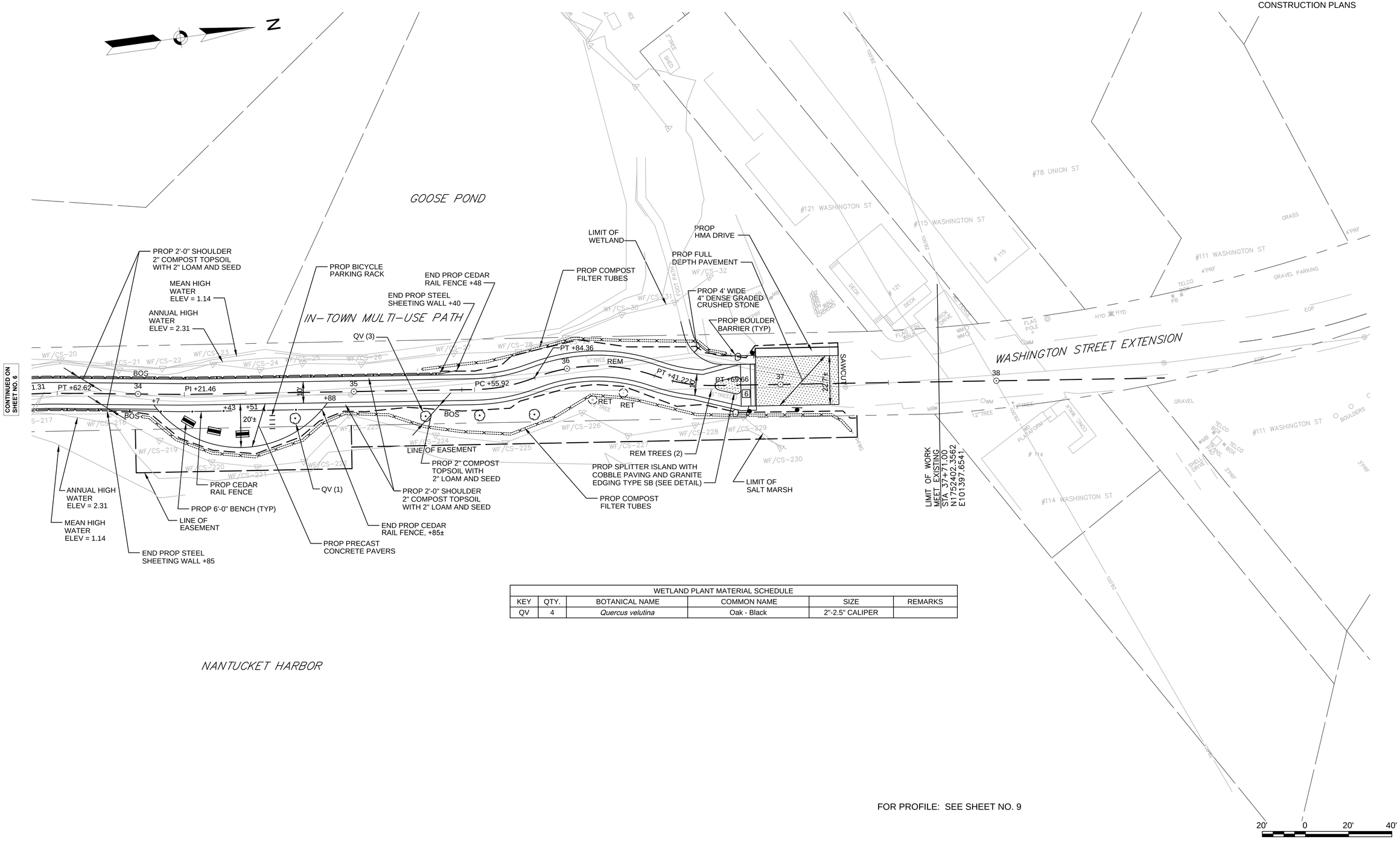
HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
NONE	NONE	SEE BELOW	SEE BELOW

NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	7	31
PROJECT FILE NO. 606433			

CONSTRUCTION PLANS

606433-HD6 (GEN).DWG 13-Mar-2014

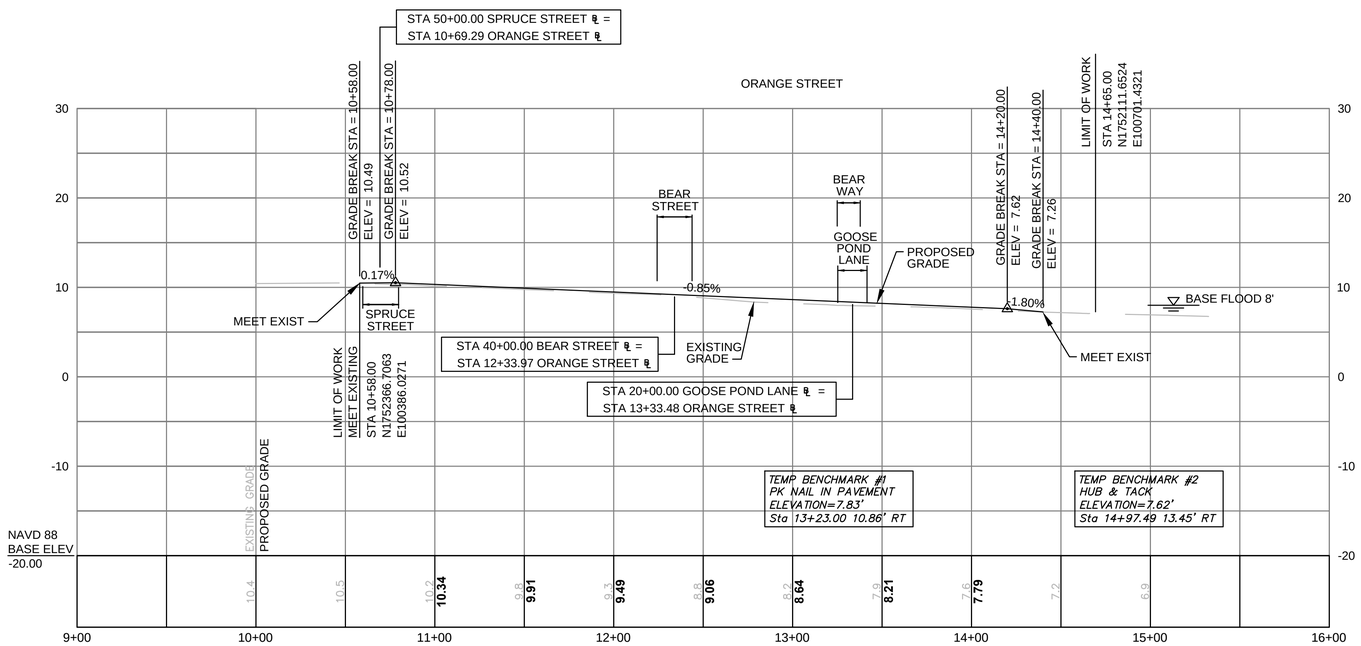


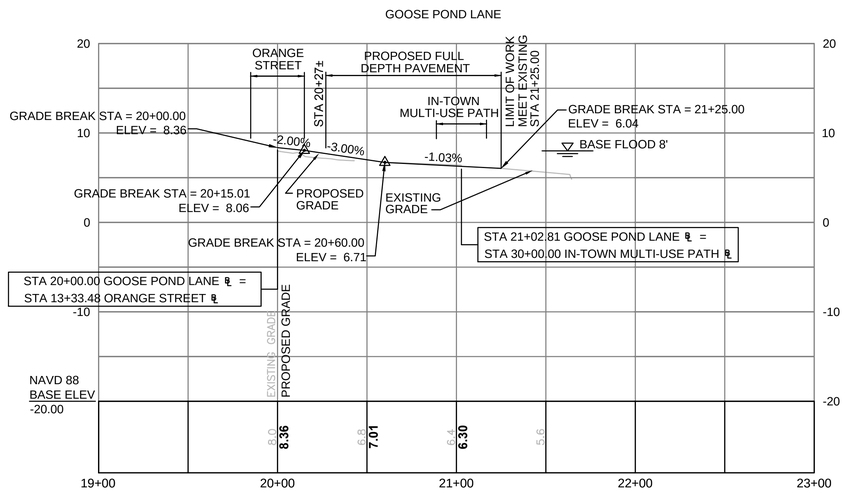
WETLAND PLANT MATERIAL SCHEDULE					
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
QV	4	*Quercus velutina*	Oak - Black	2"-2.5" CALIPER	

NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	8	31
PROJECT FILE NO. 606433			

PROFILES





HORIZONTAL
40 0 40 80
8 0 8 16
VERTICAL
SCALE IN FEET

24-Jan-2014

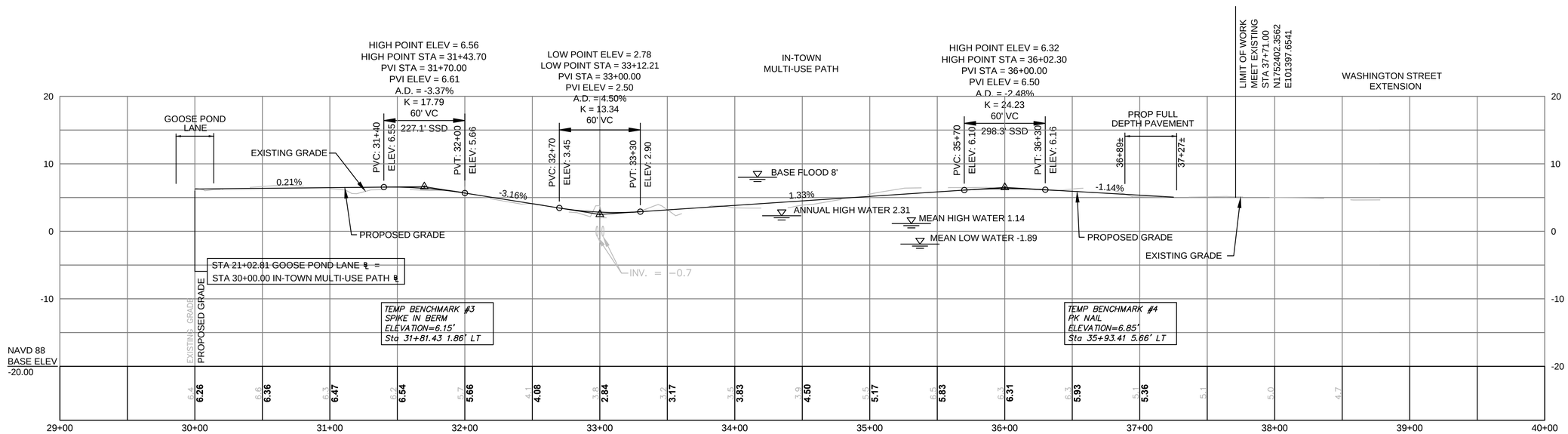
606433-H06 (PROF).DWG

NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	9	31
PROJECT FILE NO. 606433			

PROFILES

606433-HD6 (PROF).DWG 24-Jan-2014



HORIZONTAL
40 0 40 80
8 0 8 16
VERTICAL
SCALE IN FEET

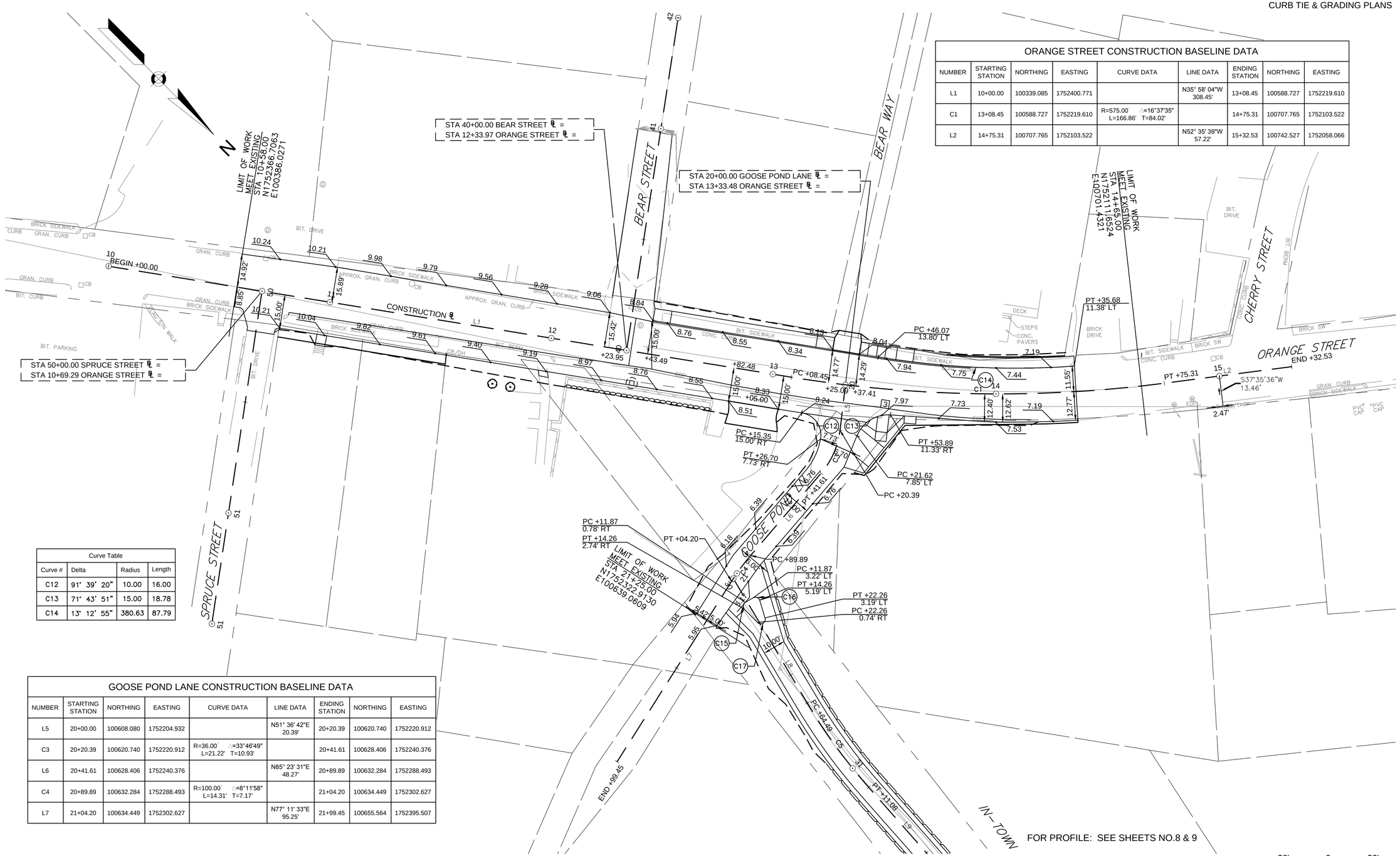
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	10	31
PROJECT FILE NO. 606433			

CURB TIE & GRADING PLANS

24-Jan-2014

606433-HD7 (ALGN).DWG



Curve Table			
Curve #	Delta	Radius	Length
C12	91° 39' 20"	10.00	16.00
C13	71° 43' 51"	15.00	18.78
C14	13° 12' 55"	380.63	87.79

ORANGE STREET CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	10+00.00	100339.085	1752400.771		N35° 58' 04"W 308.45'	13+08.45	100588.727	1752219.610
C1	13+08.45	100588.727	1752219.610	R=575.00' △=16°37'35" L=166.86' T=84.02'		14+75.31	100707.765	1752103.522
L2	14+75.31	100707.765	1752103.522		N52° 35' 39"W 57.22'	15+32.53	100742.527	1752058.066

GOOSE POND LANE CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L5	20+00.00	100608.080	1752204.932		N51° 36' 42"E 20.39'	20+20.39	100620.740	1752220.912
C3	20+20.39	100620.740	1752220.912	R=36.00' △=33°46'49" L=21.22' T=10.93'		20+41.61	100628.406	1752240.376
L6	20+41.61	100628.406	1752240.376		N85° 23' 31"E 48.27'	20+89.89	100632.284	1752288.493
C4	20+89.89	100632.284	1752288.493	R=100.00' △=8°11'58" L=14.31' T=7.17'		21+04.20	100634.449	1752302.627
L7	21+04.20	100634.449	1752302.627		N77° 11' 33"E 95.25'	21+99.45	100655.564	1752395.507

CONTINUED ON SHEET NO. 11

FOR PROFILE: SEE SHEETS NO.8 & 9

20' 0 20' 40'

SCALE 1" = 20'

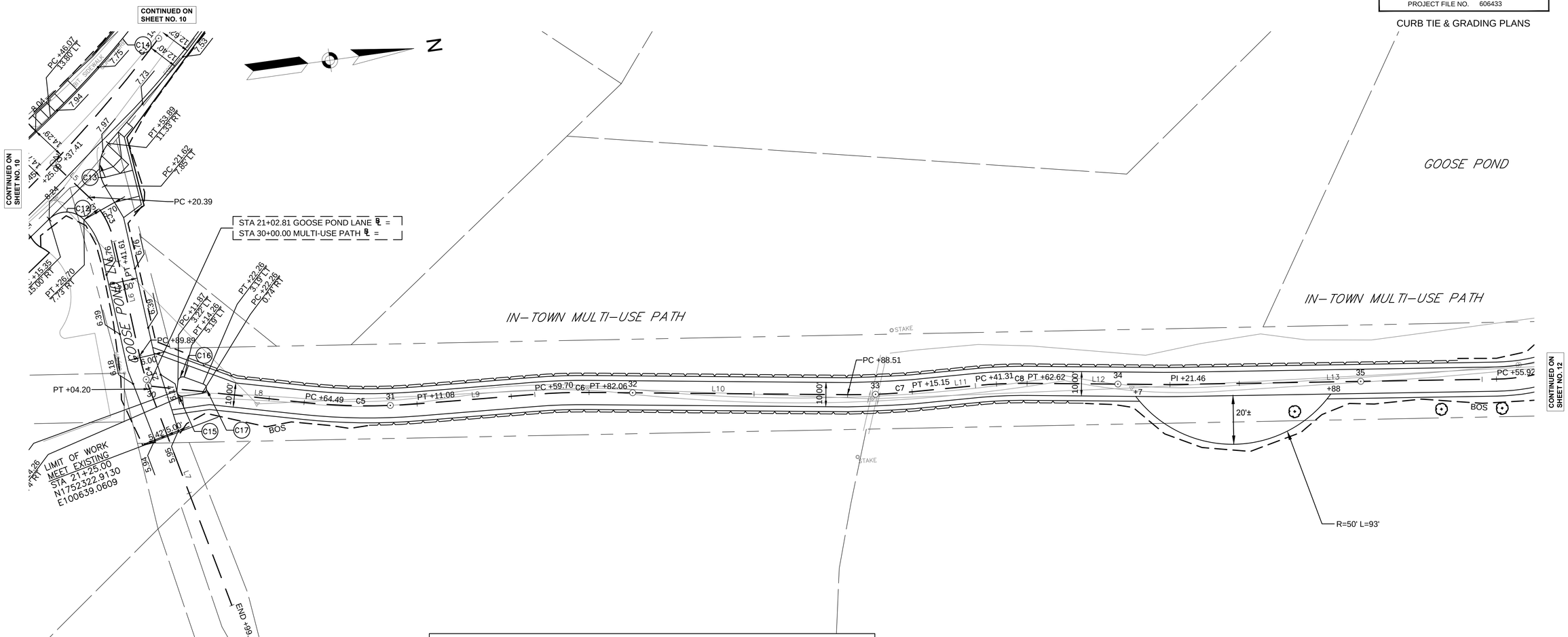
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	11	31
PROJECT FILE NO. 606433			

CURB TIE & GRADING PLANS

24-Jan-2014

606433-HD7 (ALGN).DWG



MULTI-USE PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L8	30+00.00	100634.151	1752301.273		N14° 04' 38"E 64.49'	30+64.49	100696.706	1752316.959
L9	31+11.08	100742.684	1752324.027		N3° 24' 03"E 48.63'	31+59.70	100791.224	1752326.912
C5	30+64.49	100696.706	1752316.959	R=250.00' Δ=10°40'35" L=46.58' T=23.36'		31+11.08	100742.684	1752324.027
C6	31+59.70	100791.224	1752326.912	R=250.00' Δ=5°07'26" L=22.36' T=11.19'		31+82.06	100813.453	1752329.233
L10	31+82.06	100813.453	1752329.233		N8° 31' 29"E 106.45'	32+88.51	100918.729	1752345.013
C7	32+88.51	100918.729	1752345.013	R=250.00' Δ=6°06'21" L=26.64' T=13.33'		33+15.15	100945.237	1752347.553
L11	33+15.15	100945.237	1752347.553		N2° 25' 08"E 26.16'	33+41.31	100971.372	1752348.657
C8	33+41.31	100971.372	1752348.657	R=200.00' Δ=6°06'11" L=21.30' T=10.66'		33+62.62	100992.568	1752350.687
L12	33+62.62	100992.568	1752350.687		N8° 31' 19"E 58.85'	34+21.46	101050.765	1752359.407
L13	34+21.46	101050.765	1752359.407		N7° 03' 29"E 134.46'	35+55.92	101184.206	1752375.929
C9	35+55.92	101184.206	1752375.929	R=80.00' Δ=20°21'51" L=28.43' T=14.37'		35+84.36	101212.448	1752374.387

Parcel Table				
Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C15	3.54	101° 18' 36"	2.00	2.44
C16	3.54	101° 18' 36"	2.00	2.44
C17	5.49	157° 22' 48"	2.00	10.00

FOR PROFILE: SEE SHEET NO. 9

20' 0 20' 40'

SCALE 1" = 20'

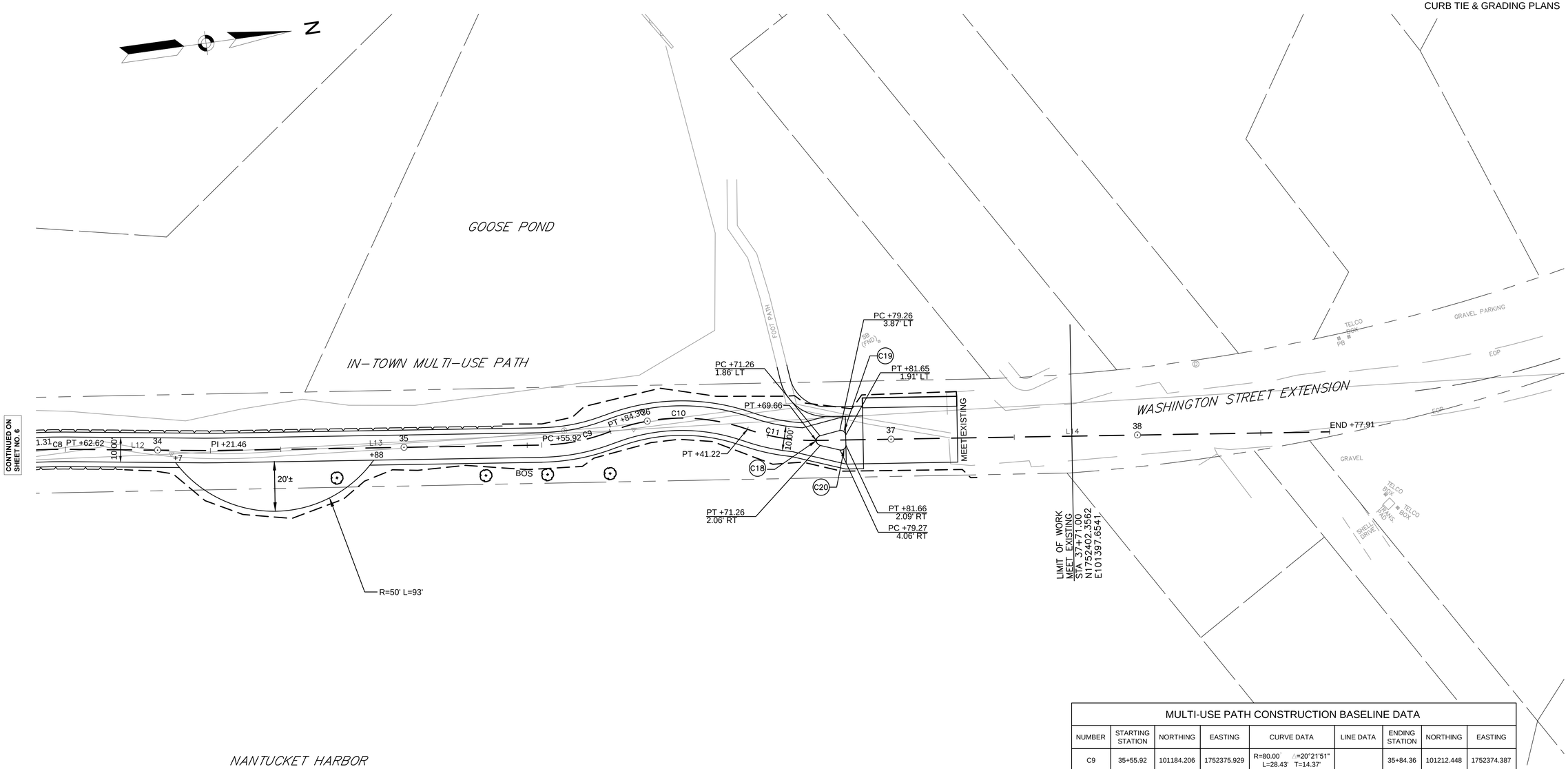
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	12	31
PROJECT FILE NO. 606433			

CURB TIE & GRADING PLANS

24-Jan-2014

606433-HD7 (ALGN).DWG



Parcel Table				
Line #/Curve #	Length	Direction/Delta	Radius	Tangent
C18	5.49	157° 22' 48"	2.00	10.00
C19	3.54	101° 18' 36"	2.00	2.44
C20	3.54	101° 18' 36"	2.00	2.44

FOR PROFILE: SEE SHEET NO. 9

MULTI-USE PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C9	35+55.92	101184.206	1752375.929	R=80.00' △=20°21'51" L=28.43' T=14.37'		35+84.36	101212.448	1752374.387
C8	33+41.31	100971.372	1752348.657	R=200.00' △=6°06'11" L=21.30' T=10.66'		33+62.62	100992.568	1752350.687
L12	33+62.62	100992.568	1752350.687		N8° 31' 19"E 58.85'	34+21.46	101050.765	1752359.407
L13	34+21.46	101050.765	1752359.407		N7° 03' 29"E 134.46'	35+55.92	101184.206	1752375.929
C10	35+84.36	101212.448	1752374.387	R=80.00' △=40°43'42" L=56.87' T=29.69'		36+41.22	101267.704	1752381.228
C11	36+41.22	101267.704	1752381.228	R=80.00' △=20°21'51" L=28.43' T=14.37'		36+69.66	101294.717	1752389.611
L14	36+69.66	101294.717	1752389.611		N7° 03' 29"E 208.25'	38+77.91	101501.390	1752415.200

20' 0 20' 40'

SCALE 1" = 20'

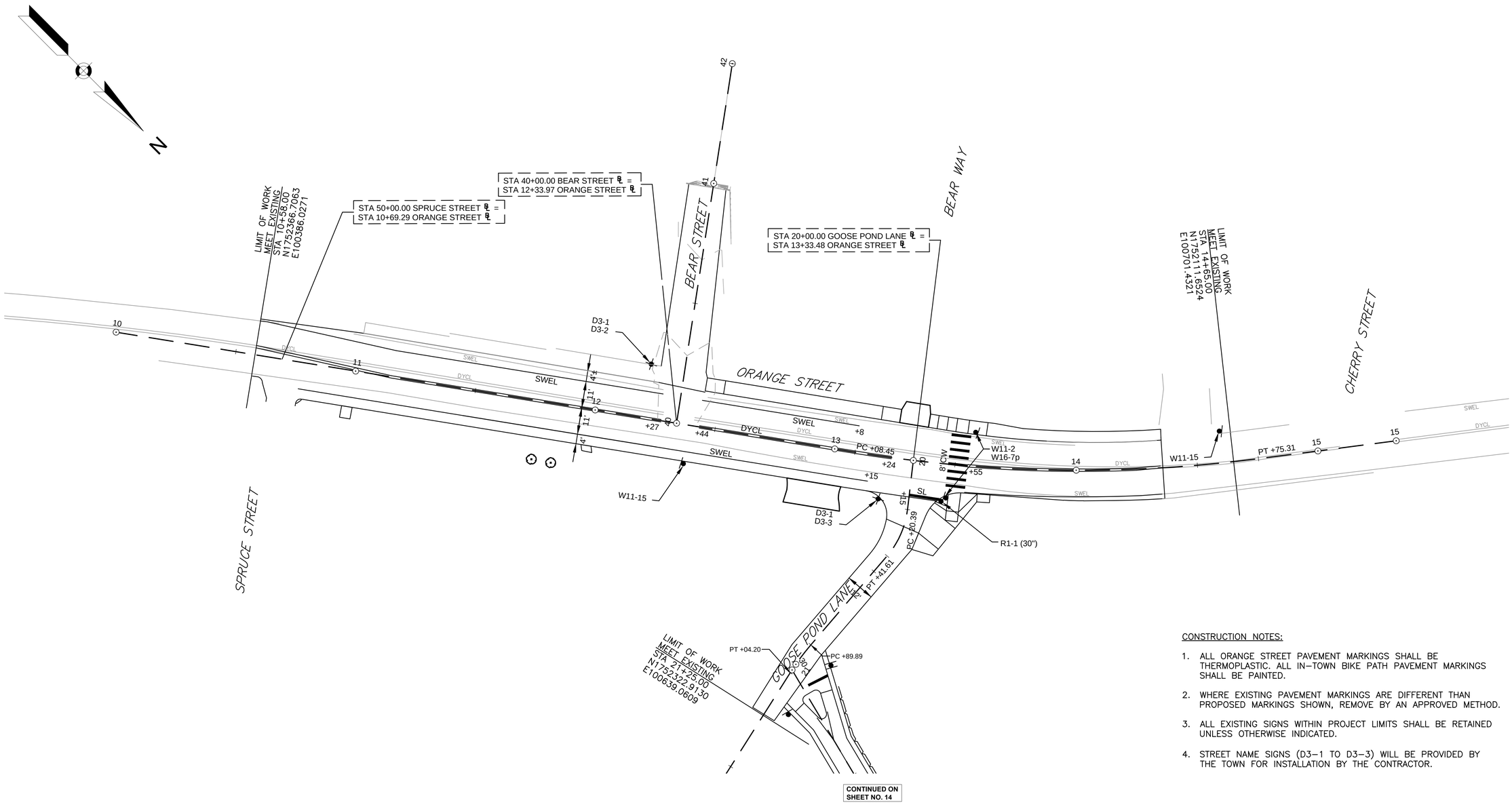
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	13	31
PROJECT FILE NO. 606433			

TRAFFIC SIGN & PAVEMENT MARKINGS

24-Jan-2014

606433-HD8 (STRP).DWG



CONSTRUCTION NOTES:

1. ALL ORANGE STREET PAVEMENT MARKINGS SHALL BE THERMOPLASTIC. ALL IN–TOWN BIKE PATH PAVEMENT MARKINGS SHALL BE PAINTED.
2. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
3. ALL EXISTING SIGNS WITHIN PROJECT LIMITS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
4. STREET NAME SIGNS (D3–1 TO D3–3) WILL BE PROVIDED BY THE TOWN FOR INSTALLATION BY THE CONTRACTOR.

20' 0 20' 40'

SCALE 1" = 20'

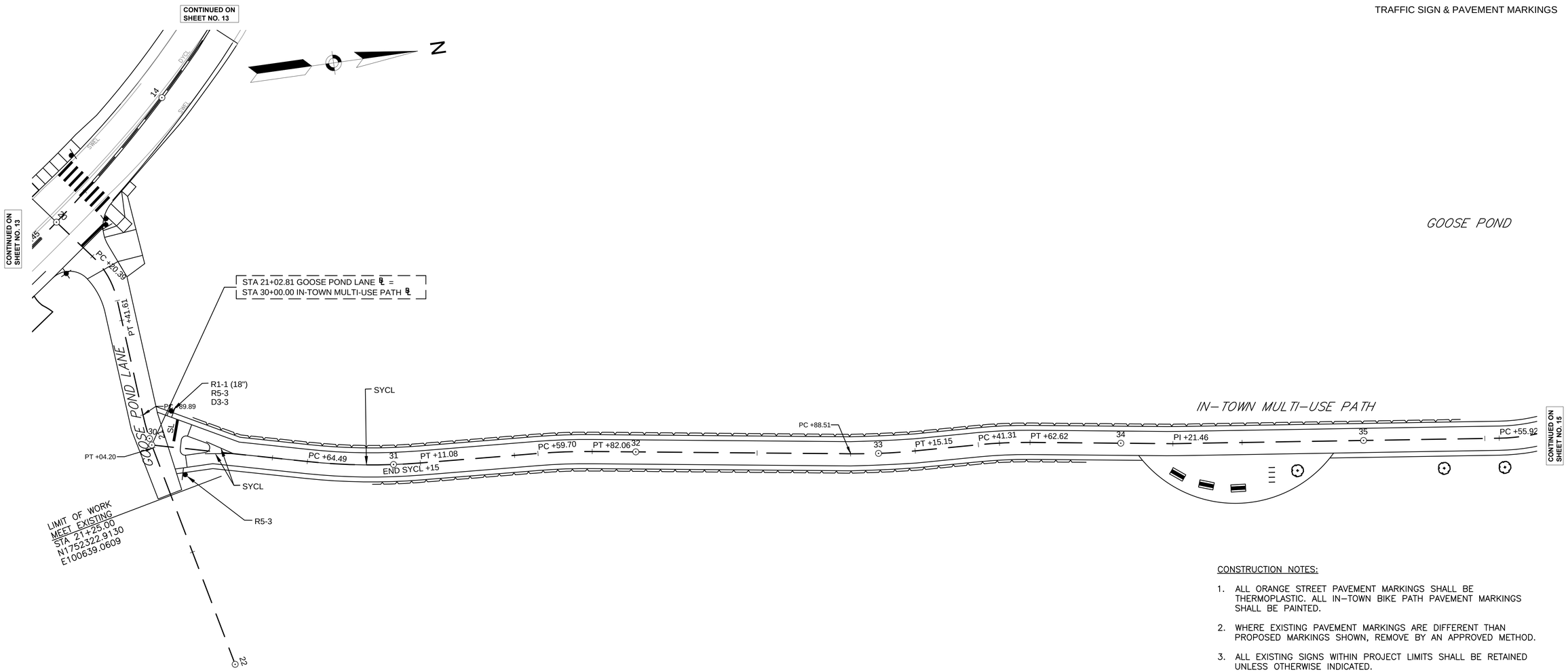
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	14	31
PROJECT FILE NO. 606433			

TRAFFIC SIGN & PAVEMENT MARKINGS

24-Jan-2014

606433-HD8 (STRP).DWG



CONSTRUCTION NOTES:

1. ALL ORANGE STREET PAVEMENT MARKINGS SHALL BE THERMOPLASTIC. ALL IN–TOWN BIKE PATH PAVEMENT MARKINGS SHALL BE PAINTED.
2. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
3. ALL EXISTING SIGNS WITHIN PROJECT LIMITS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
4. STREET NAME SIGNS (D3–1 TO D3–3) WILL BE PROVIDED BY THE TOWN FOR INSTALLATION BY THE CONTRACTOR.

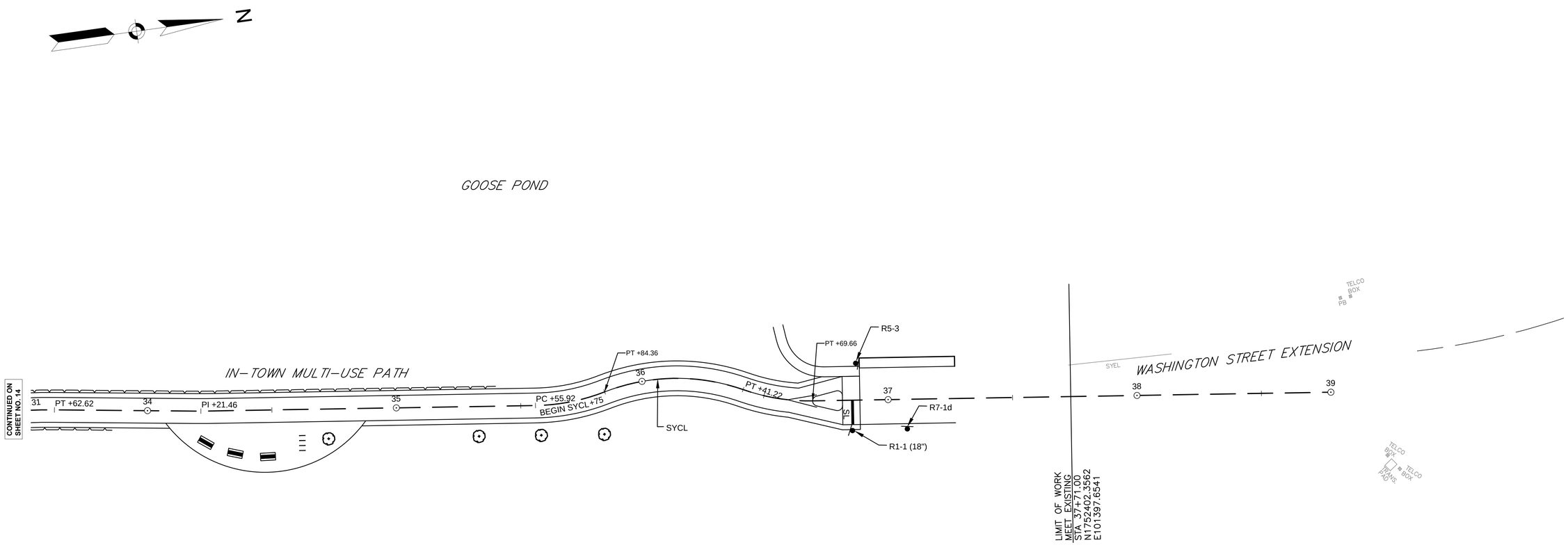
20' 0 20' 40'

SCALE 1" = 20'

NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	15	31
PROJECT FILE NO. 606433			

TRAFFIC SIGN & PAVEMENT MARKINGS



CONSTRUCTION NOTES:

1. ALL ORANGE STREET PAVEMENT MARKINGS SHALL BE THERMOPLASTIC. ALL IN-TOWN BIKE PATH PAVEMENT MARKINGS SHALL BE PAINTED.
2. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
3. ALL EXISTING SIGNS WITHIN PROJECT LIMITS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.

20' 0 20' 40'

SCALE 1" = 20'

606433-HD8 (STRP).DWG 24-Jan-2014

606433–HD9 (SS).DWG 24–Jan–2014

TRAFFIC SIGN SUMMARY

IDENTIFI–CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			4X4 POST NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK–GROUND	LEGEND	BORDER			
R1–1	30″	30″		SEE FHWA "STANDARD HIGHWAY SIGNS 2004 EDITION" AS AMENDED			1	RED	WHITE	WHITE	1	6.25	6.25
R1–1	18″	18″					2	RED	WHITE	WHITE	2	2.25	4.50
W11–2	30″	30″					2	FLUORESCENT YELLOW–GREEN	BLACK	BLACK	2	6.25	12.50
W11–15	30″	30″					2	FLUORESCENT YELLOW–GREEN	BLACK	BLACK	2	6.25	12.50
W16–7p(L)	24″	12″					2	FLUORESCENT YELLOW–GREEN	BLACK	BLACK	2 MTD W/OTHERS	2.00	4.00
R5–3	24″	24″					3	WHITE	BLACK	BLACK	2 & 1 MTD W/OTHERS	4.00	12.00
R7–1d	12″	18″					1	WHITE	RED	RED	1	1.50	1.50

NOTE: 1. HIGH INTENSITY REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. SEE 2009 MANUAL ON UNIFORM CONTROL DEVICES FOR LATERAL AND VERTICAL CLEARANCES; THE 1996 MASSDOT CONSTRUCTION AND TRAFFIC STANDARD DETAILS, AS AMENDED, FOR SIGNS AND SUPPORTS; AND THE MASSDOT SIGN LISTINGS 2003 EDITION, AS AMENDED.

2. STREET NAME SIGNS WILL BE PROVIDED BY THE TOWN OF NANTUCKET FOR INSTALLATION BY THE CONTRACTOR. INSTALLATION WILL BE PAID FOR UNDER ITEM 874.12.

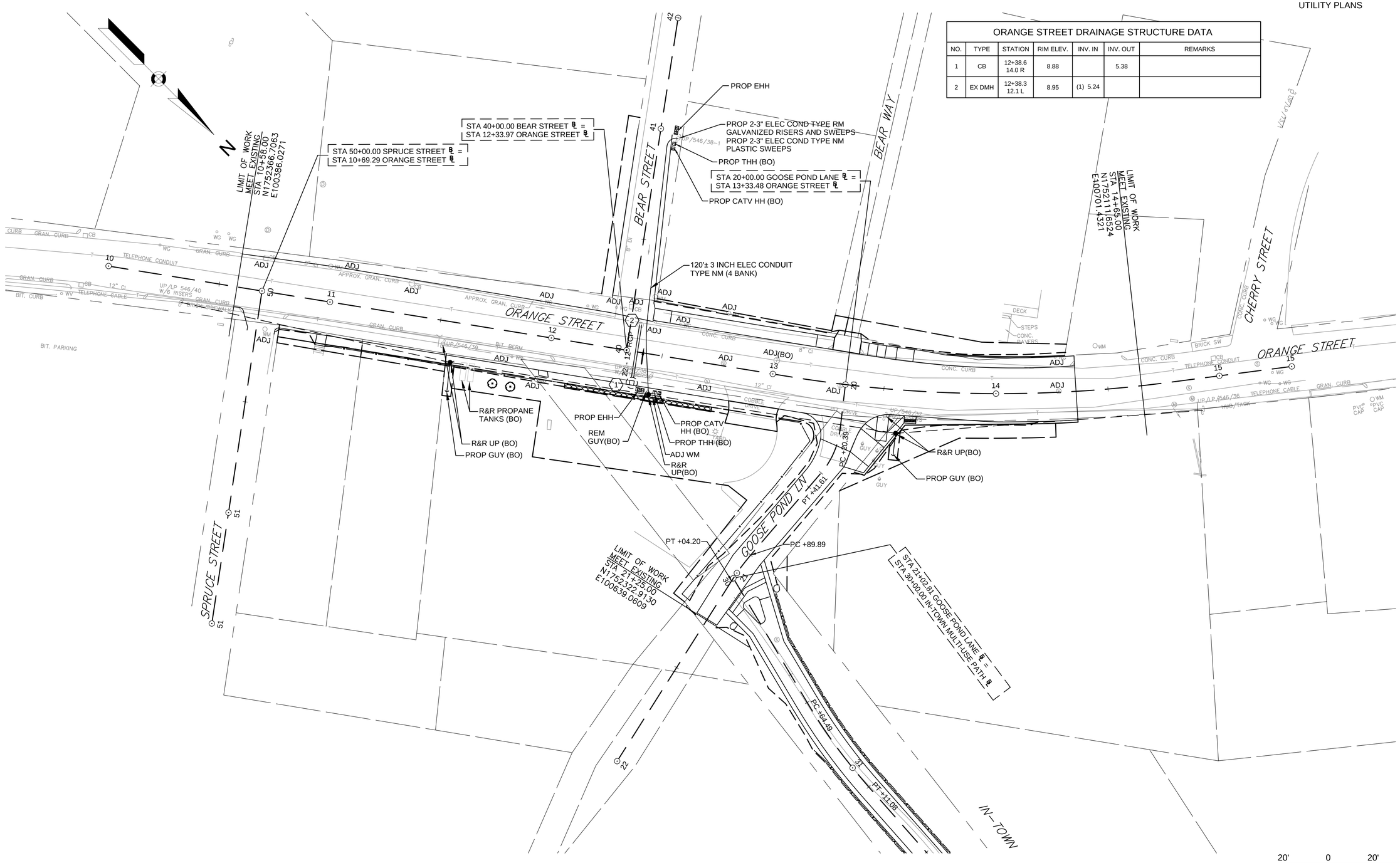
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	17	31
PROJECT FILE NO. 606433			

UTILITY PLANS

24-Jan-2014

606433-HD8 (UTIL).DWG

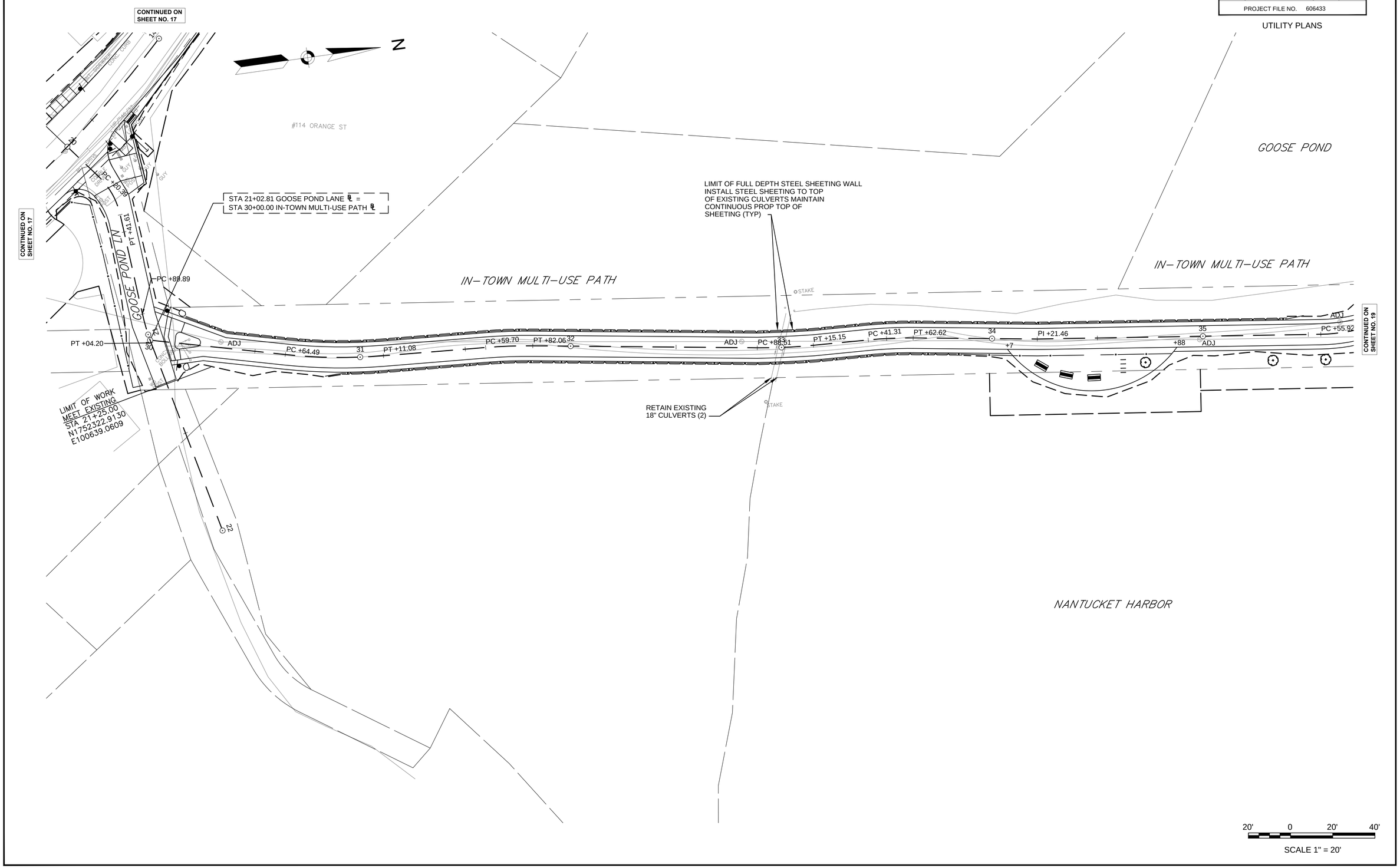


ORANGE STREET DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
1	CB	12+38.6 14.0 R	8.88		5.38	
2	EX DMH	12+38.3 12.1 L	8.95	(1) 5.24		

NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	18	31
PROJECT FILE NO. 606433			

UTILITY PLANS



606433-HD8 (UTIL).DWG 24-Jan-2014

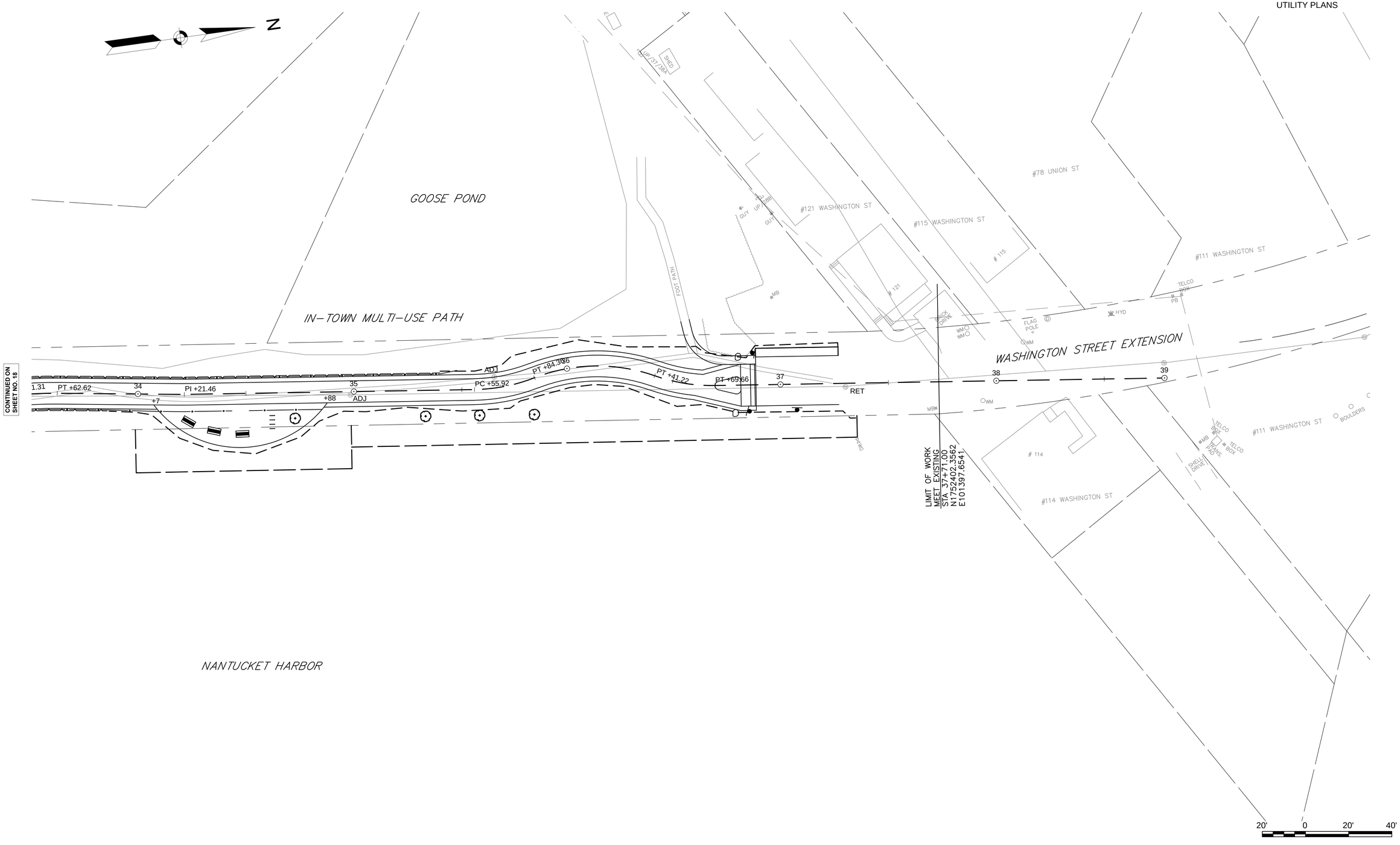
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	19	31
PROJECT FILE NO. 606433			

UTILITY PLANS

24-Jan-2014

606433-HD8 (UTIL).DWG



NANTUCKET
IN-TOWN MULTI-USE PATH

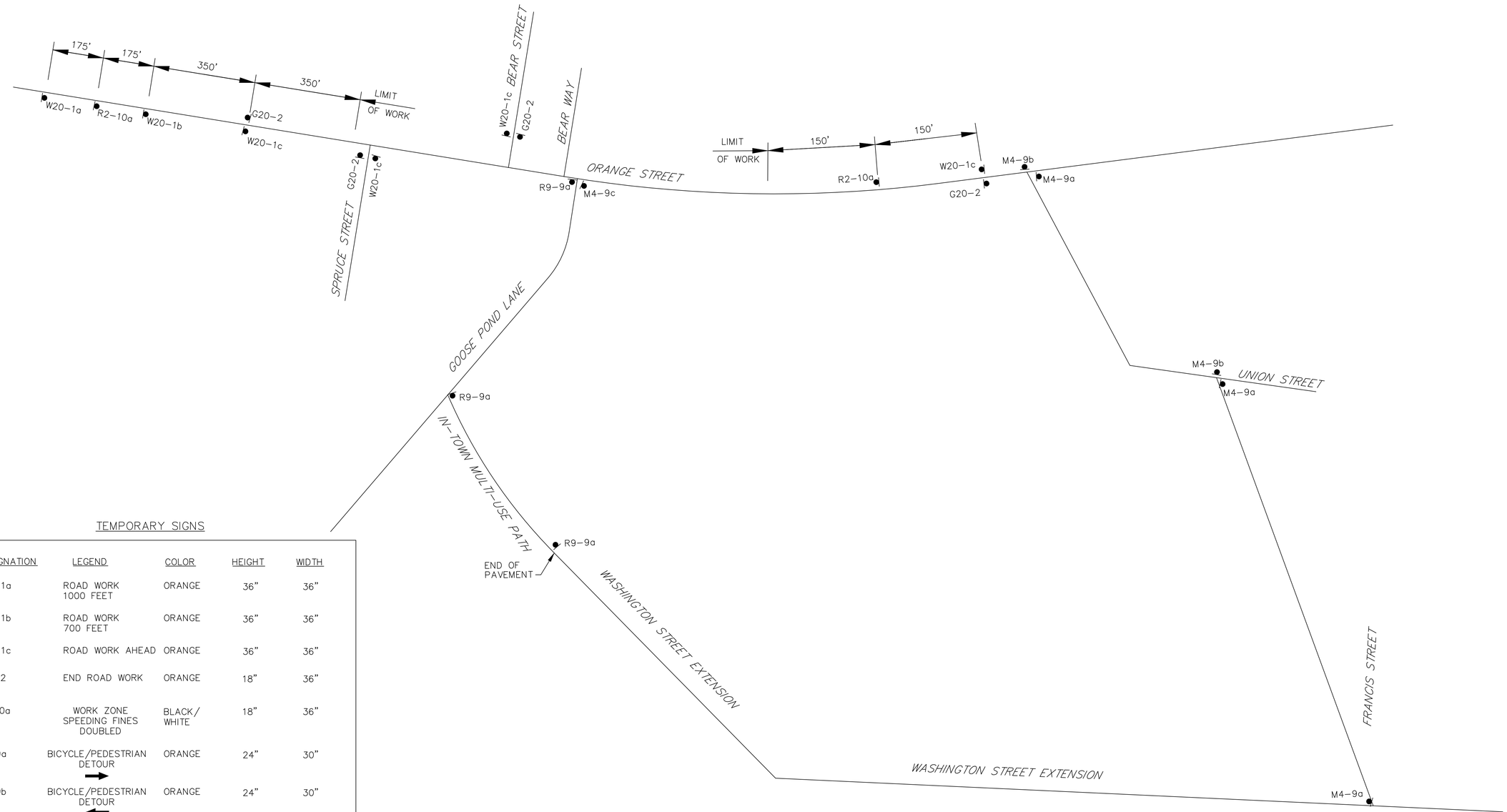
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	20	31
PROJECT FILE NO. 606433			

TEMPORARY TRAFFIC CONTROL PLANS

606433-HD10 (TMP).DWG 24-Jan-2014

ADVANCE SIGN SCHEMATIC

NTS
SIGNS TO BE INSTALLED AT THE PROJECT LIMITS AS SHOWN.
ALL ADVANCE SIGNS TO BE IN PLACE FOR THE DURATION OF THE PROJECT.



TEMPORARY SIGNS

SIGN DESIGNATION	LEGEND	COLOR	HEIGHT	WIDTH
W20-1a	ROAD WORK 1000 FEET	ORANGE	36"	36"
W20-1b	ROAD WORK 700 FEET	ORANGE	36"	36"
W20-1c	ROAD WORK AHEAD	ORANGE	36"	36"
G20-2	END ROAD WORK	ORANGE	18"	36"
R2-10a	WORK ZONE SPEEDING FINES DOUBLED	BLACK/ WHITE	18"	36"
M4-9a	BICYCLE/PEDESTRIAN DETOUR →	ORANGE	24"	30"
M4-9b	BICYCLE/PEDESTRIAN DETOUR ←	ORANGE	24"	30"
M4-9c	BICYCLE/PEDESTRIAN DETOUR ↑	ORANGE	24"	30"
R9-9a	PATH CLOSED	ORANGE	12"	24"

NOTE: THE CONTRACTOR SHALL COVER ANY ADVANCE SIGNAGE IF THE SIGNAGE FROM A DAILY OPERATIONAL SETUP INTERFERES WITH THE ADVANCE SIGNING.

NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	21	31
PROJECT FILE NO. 606433			

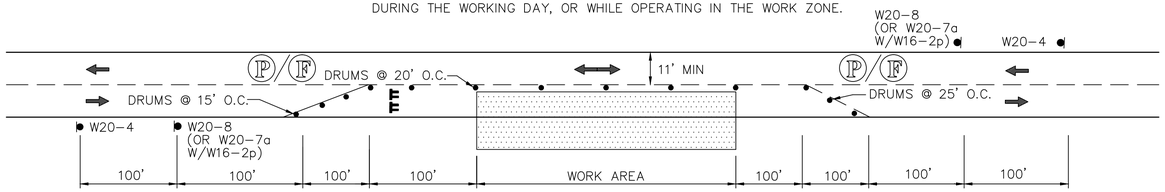
TEMPORARY TRAFFIC CONTROL PLANS

24-Jan-2014

606433-HD10 (TMP).DWG

OPERATIONAL SIGNING

LANE CLOSURES SHOWN ARE FOR TEMPORARY CONSTRUCTION.
ALL DRUMS AND SIGNS ARE SHOWN AS THEY SHOULD APPEAR
DURING THE WORKING DAY, OR WHILE OPERATING IN THE WORK ZONE.



TYPICAL TWO WAY STREET LANE CLOSURE

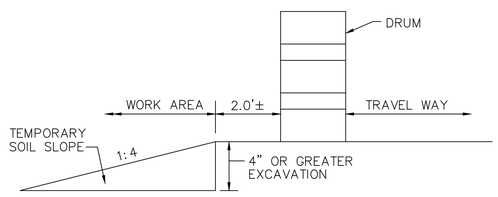
NTS

TEMPORARY SIGNS

SIGN DESIGNATION	LEGEND	HEIGHT	WIDTH
W20-4	ONE LANE ROAD AHEAD	36"	36"
W20-7a	FLAGGER AHEAD	36"	36"
W20-8	POLICE OFFICER AHEAD	36"	36"
W5-1	ROAD NARROWS	36"	36"
W13-1	ADVISORY SPEED PLATE	18"	18"
W16-2p	XX FEET (PLAQUE)	18"	24"
W1-4R		30"	30"
W1-4L		30"	30"
R9-9	SIDEWALK CLOSED	12"	24"
R9-11	SIDEWALK CLOSED AHEAD CROSS HERE	12"	24"

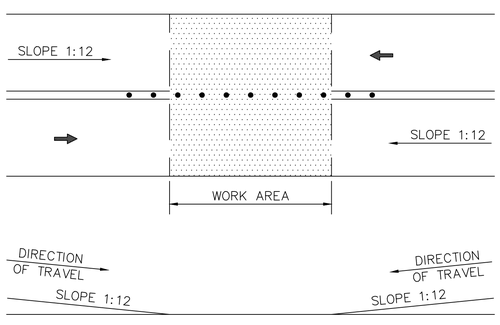
GENERAL NOTES

1. ALL CONSTRUCTION SIGNING, DRUMS, BARRICADES AND OTHER DEVICES SHALL CONFORM WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AS AMENDED.
2. ALL DRUMS SHALL BE SET AT 20' ON CENTER MAX, UNLESS OTHERWISE NOTED OR ADJUSTED BY THE ENGINEER.
3. ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES. WORK MAY REQUIRE ADDITIONAL SIGNS, DRUMS AND OTHER TRAFFIC CONTROL DEVICES, GRADING AND TEMPORARY PAVEMENT FOR PASSAGE OF PEDESTRIAN, VEHICULAR AND EMERGENCY TRAFFIC THROUGH THE WORK AREAS, BOTH DURING AND AFTER WORKING HOURS, TO MAINTAIN SUCH ACCESS.
4. THE 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.
5. A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION ON TWO WAY STREETS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT THAT DURING WORKING HOURS, TRAFFIC MAY BE REDUCED TO ONE LANE UNDER POLICE CONTROL, OR CLOSED USING APPROVED DETOUR, FOR SHORT TIME PERIODS WHEN REQUIRED FOR THE WORK, AS SHOWN.
6. GRADE SEPARATIONS IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF DRUMS.
7. EXCAVATION EDGES IN EXCESS OF 4" DEEP SHALL BE PROTECTED DURING NON-WORKING HOURS BY BACKFILLING WITH A WEDGE OF GRAVEL OR SOIL TO COMPACTED 1:4 SLOPE.
8. 11' MINIMUM LANE WIDTHS SHALL BE MAINTAINED.
9. NON-ESSENTIAL TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS.
10. THE GENERAL SEQUENCE OF WORK IS DEPENDENT UPON THE REMOVAL AND RELOCATION OF THE EXISTING UTILITY POLES AND WIRES THAT ARE FOUND TO BE IN CONFLICT WITH THE PROPOSED WORK, BY THE UTILITY COMPANIES, THE CONTRACTOR SHALL SCHEDULE THE WORK IN EACH AREA TO COORDINATE WITH THE POLE RELOCATION WORK.
11. ADVISORY SPEED PLATES (W13-1) SHALL BE USED IF APPROPRIATE AND AS DIRECTED BY THE ENGINEER.



ROADWAY SLOPE PROTECTION

NOT TO SCALE



SQUARE OFF THE FULL WIDTH OF THE ROADWAY AT THE END OF WORK DAY

TEMPORARY PAVEMENT TRANSITION DETAIL

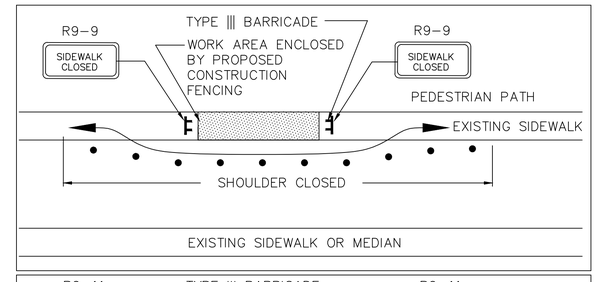
NOT TO SCALE

PEDESTRIAN BYPASS

TO BE USED IN CONJUNCTION WITH THE PROPOSED LANE
CLOSURE DETAILS AND DURING CONSTRUCTION STAGING
AND AS DIRECTED BY THE ENGINEER.

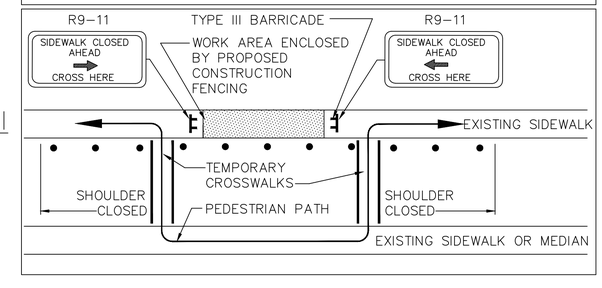
TYPE I

NTS



TYPE II

NTS



1. ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
2. CONTROLS FOR PEDESTRIAN TRAFFIC ONLY, ARE SHOWN. VEHICULAR TRAFFIC SHALL BE MAINTAINED AS SHOWN ELSEWHERE.
3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
4. ◄——► DIRECTION OF PEDESTRIAN TRAVEL.
5. IF THE WORK ZONE DOES NOT PERMIT PEDESTRIANS TO TRAVEL ADJACENT TO IT AS SHOWN IN PEDESTRIAN BYPASS TYPE I, TEMPORARY CROSSWALKS WITH APPROPRIATE SIGNS SHALL BE INSTALLED TO CROSS PEDESTRIANS TO THE OPPOSITE SIDE OF THE STREET AS SHOWN IN PEDESTRIAN BYPASS TYPE II, AND AS DIRECTED BY THE ENGINEER.

LEGEND

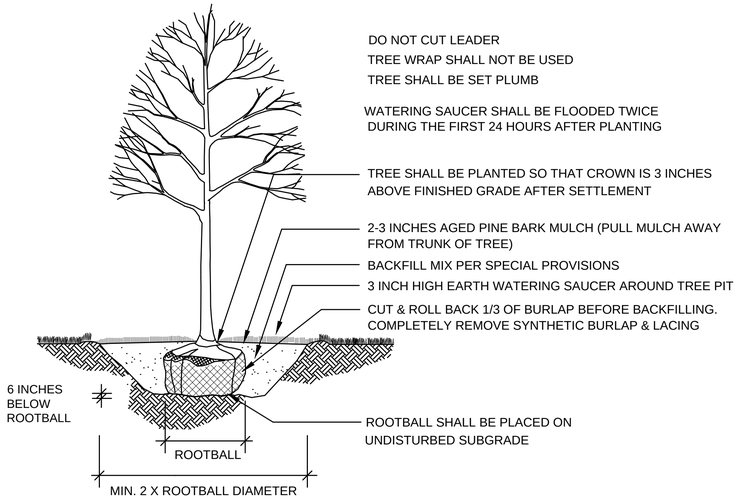
●	DRUM		TYPE III BARRICADES
▲	TRAFFIC CONE		WORK AREA PUBLIC ACCESS RESTRICTED
Ⓟ	POLICE OFFICER	←	PROPOSED TRAFFIC FLOW
Ⓕ	FLAGGER		SPECIAL LIGHTING UNIT (SLU)
	CONSTRUCTION SIGN	NTS	NOT TO SCALE

NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	22	31
PROJECT FILE NO. 606433			

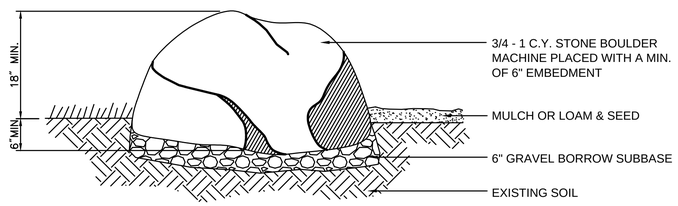
CONSTRUCTION DETAILS

606433-HD5 (DET).DWG 24-Jan-2014



DECIDUOUS TREE PLANTING

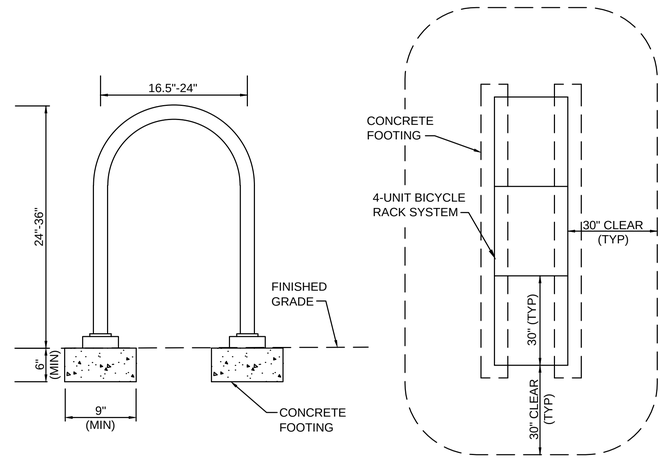
SCALE: NOT TO SCALE
S-STD.
H-STD.



NOTE:
TO BE SPACED 6' O.C. WHEN MORE THAN ONE

BOULDER BARRIER

SCALE: NOT TO SCALE
S-STD.
H-STD.

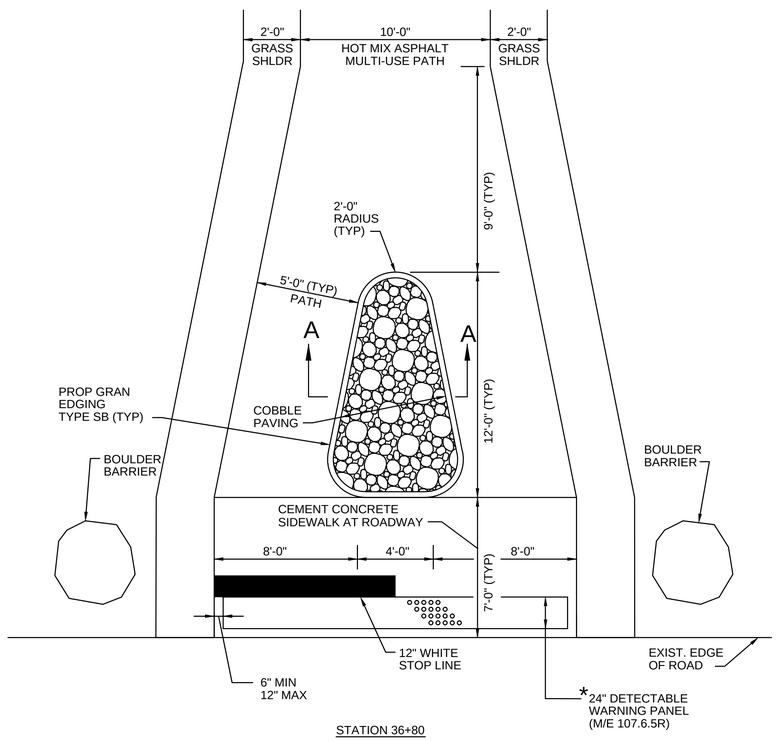


NOTES:

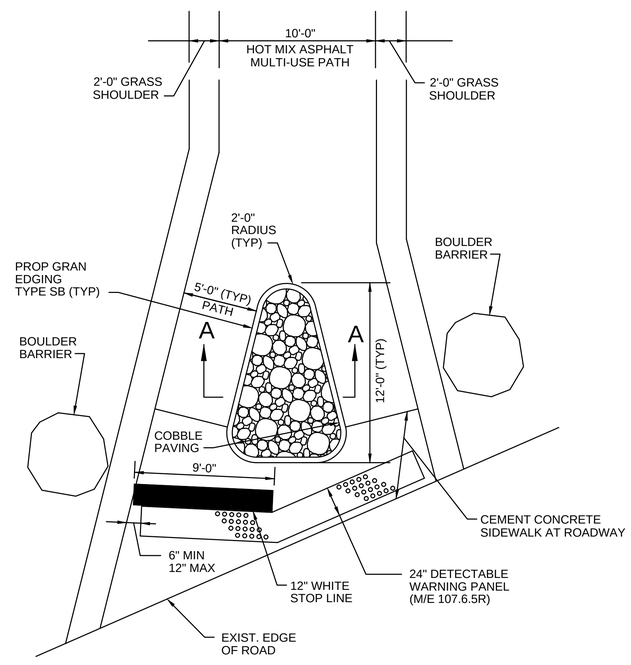
1. BICYCLE RACK UNITS SHALL CONSIST OF FOUR INVERTED "U" PIPES
2. INVERTED "U" PIPES SHALL BE PLACED PARALLEL TO EACH OTHER 30 INCHES ON CENTER
3. CONCRETE SHALL BE 4000 PSI, 3/4 IN, 565 CEMENT CONCRETE

BICYCLE RACK

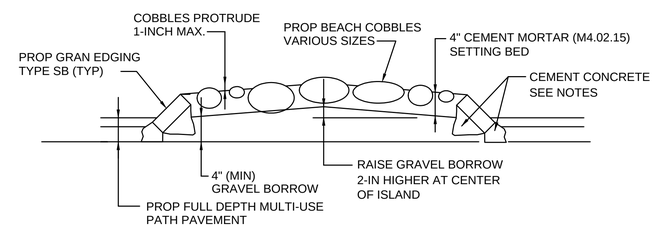
SCALE: NOT TO SCALE



STATION 36+80



STATION 30+15



SECTION A-A

NOTE:
PAYMENT FOR CEMENT CONCRETE FOR EDGING INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR GRANITE EDGING.

SPLITTER ISLAND WITH COBBLE PAVING

SCALE: NOT TO SCALE
DATE: DEC 2005
DWG:

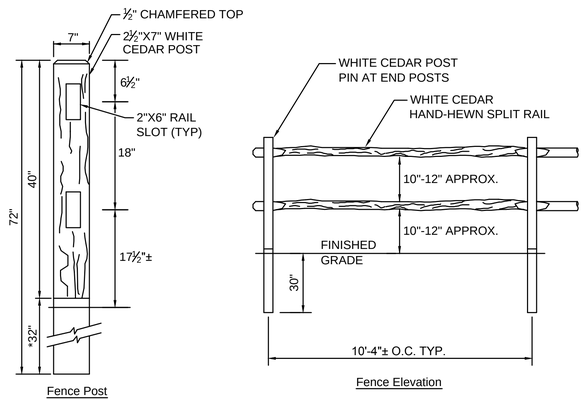
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	23	31
PROJECT FILE NO. 606433			

CONSTRUCTION DETAILS

24-Jan-2014

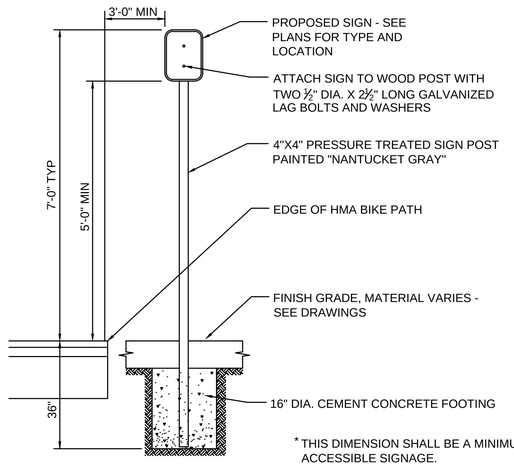
606433-HD5 (DET).DWG



* TREAT THIS SECTION OF POST WITH A WOOD PRESERVATIVE AS SPECIFIED BY THE FENCE MANUFACTURER.

CEDAR RAIL FENCE

SCALE:NTS
S-STD.
H-STD.

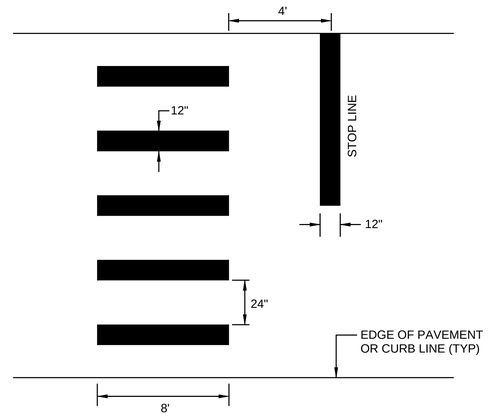


* THIS DIMENSION SHALL BE A MINIMUM OF 5' FOR ACCESSIBLE SIGNAGE.

* * THIS DIMENSION SHALL BE A MINIMUM OF 5' AND A MAXIMUM OF 8' FOR ACCESSIBLE SIGNAGE IN THE COMMONWEALTH OF MASSACHUSETTS.

SIGN POST

SCALE:NTS
S-STD.
H-STD.

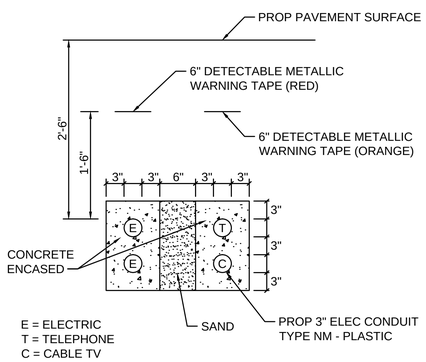


NOTES:

1. ALL 12" THERMOPLASTIC LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6" LINES) WILL BE ACCEPTED.
2. LAYOUT OF CROSSWALKS SHALL BE APPROVED BY A NANTUCKET DPW REPRESENTATIVE PRIOR TO APPLICATION OF THERMOPLASTIC.

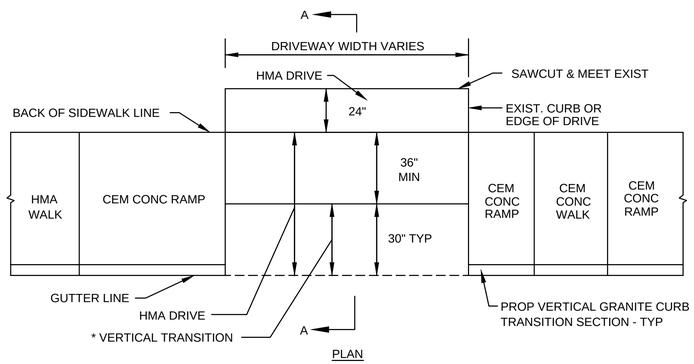
CROSSWALK INSTALLATION

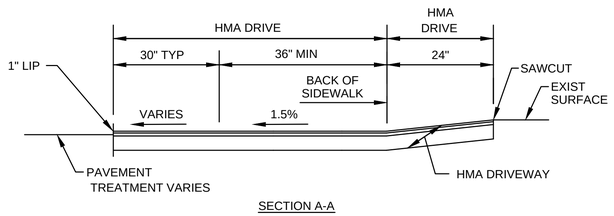
SCALE: NOT TO SCALE
S-STD.
H-STD.



3" ELECRICAL CONDUIT - TYPE NM (4 BANK)

SCALE:NTS
S-STD.
H-STD.





*DRIVEWAY SLOPED TO MEET BACK OF SIDEWALK GRADE

TYPICAL DRIVEWAY WITH FULL DEPTH PAVEMENT CONSTRUCTION - BEAR WAY

SCALE: NOT TO SCALE
DATE: APRIL 2003
DWG: DRIVE-12

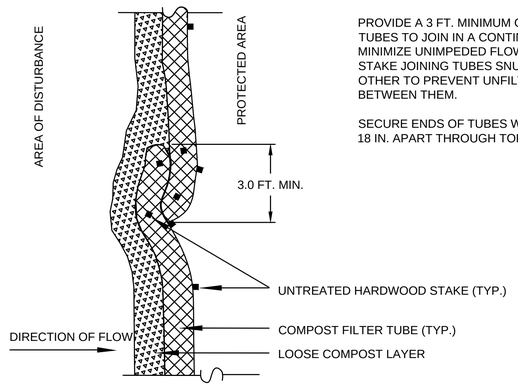
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	24	31
PROJECT FILE NO. 606433			

CONSTRUCTION DETAILS

24-Jan-2014

606433-HD5 (DET).DWG



PROVIDE A 3 FT. MINIMUM OVERLAP AT ENDS OF TUBES TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW.
STAKE JOINING TUBES SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM.

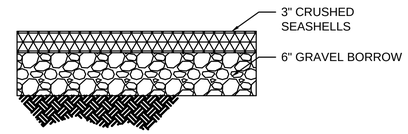
SECURE ENDS OF TUBES WITH STAKES SPACED 18 IN. APART THROUGH TOPS OF TUBES.

PLAN VIEW - JOIN DETAIL

N.T.S.

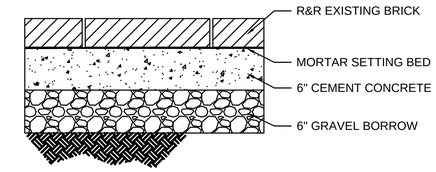
NOTES:

1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
4. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.



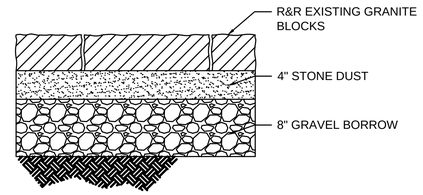
SEASHELL WALK

SCALE: NOT TO SCALE
S-STD.
H-STD.



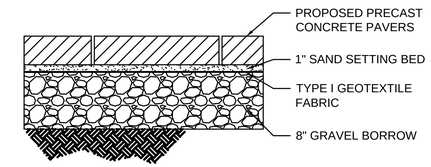
BRICK WALK

SCALE: NOT TO SCALE
S-STD.
H-STD.



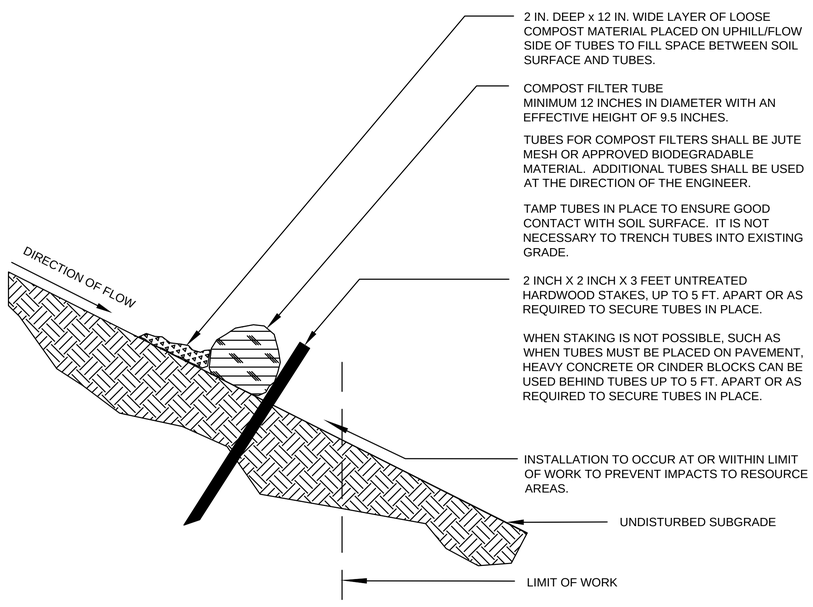
GRANITE BLOCK PAVEMENT

SCALE: NOT TO SCALE
S-STD.
H-STD.



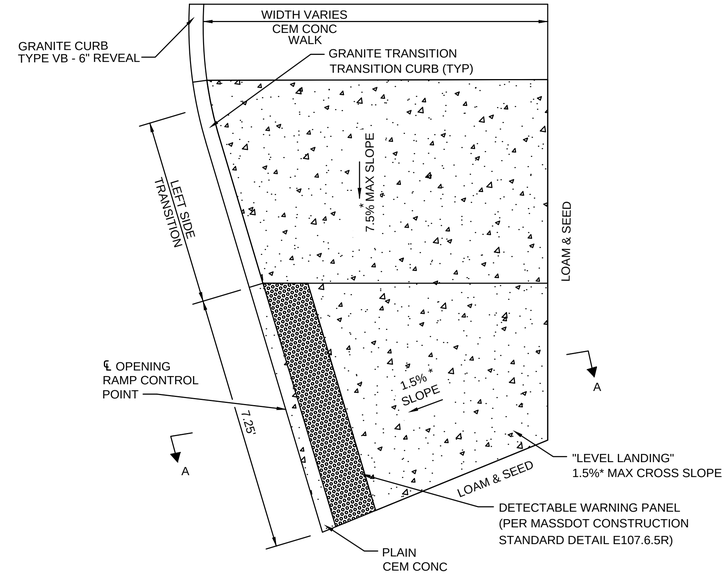
PRECAST CONCRETE PAVERS

SCALE: NOT TO SCALE
S-STD.
H-STD.

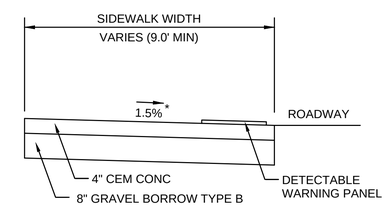


COMPOST FILTER TUBES

SCALE: NOT TO SCALE
DATE: SEPT 2011
DWG: N/A



PLAN VIEW



SECTION A-A

WHEELCHAIR RAMP 4
STA 20+30 LT

SCALE: NOT TO SCALE
DATE: OCT 2008
DWG: WCR-03

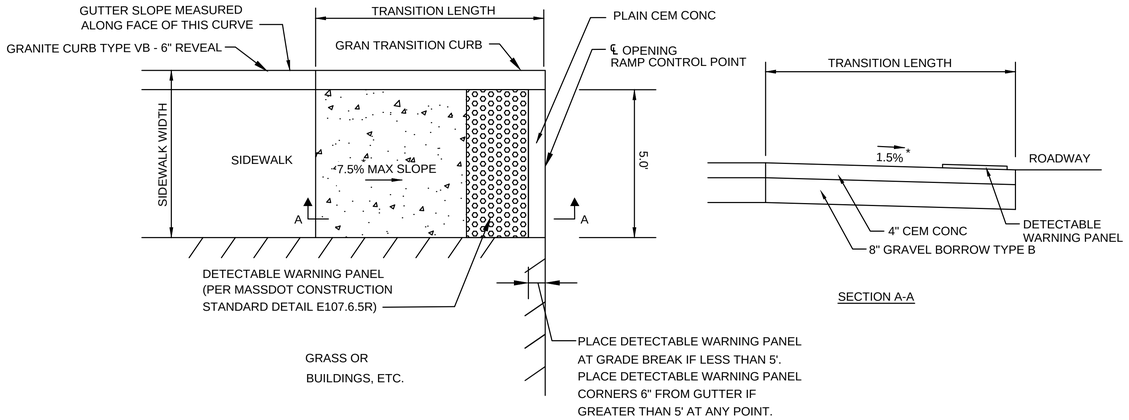
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	25	31
PROJECT FILE NO. 606433			

CONSTRUCTION DETAILS

24-Jan-2014

606433-HD5 (DET).DWG



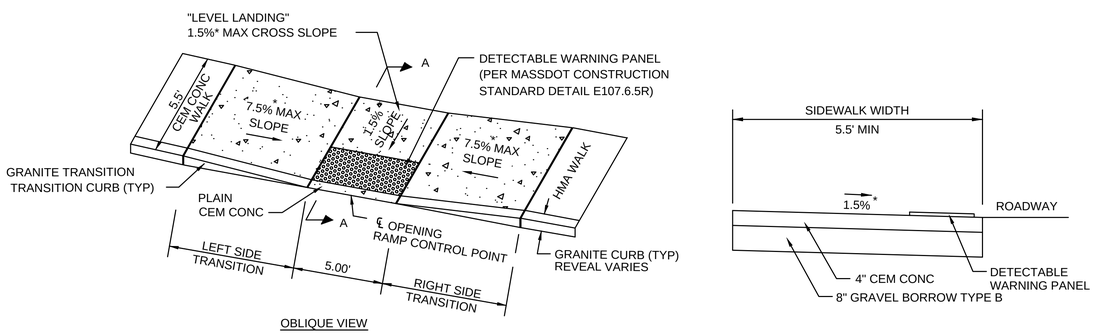
NOTE:
SEE MASSDOT CONSTRUCTION STANDARD DETAIL E107.6.0R
FOR ADDITIONAL INFORMATION.

WHEELCHAIR RAMP DATA							
NO.	CONTROL POINT ELEVATION	LOCATION	WIDTH	ROADWAY GUTTER	TRANSITION LEFT	TRANSITION RIGHT	COMMENTS
1	8.54	12+43.5 17.75 LT	5'-0"	-0.86%	--	7'-8"	
2	7.68	13+51.6 13.45 LT	5'-0"	-0.86%	3'-9"	7'-8"	3" REVEAL LEFT TRANSITION
3	7.72	13+50.8 11.89 RT	5'-0"	-0.86%	6'-9"	6'-6"	
4	7.32	20+31.2 6.65 LT	VARIES	-2.09%	11'-0"	--	
5	5.77	30+06.8 0.0 RT	20'-0"	-1.00%	--	--	
6	5.52	36+86.3 0.0 LT	20'-0"	-1.00%	--	--	

NOTES:
1. DETECTABLE WARNING PANELS SHALL BE INSTALLED
ON ALL WHEEL CHAIR RAMPS - SEE MASSDOT E107.6.5R

WHEELCHAIR RAMP 1
STA 12+43.5 LT

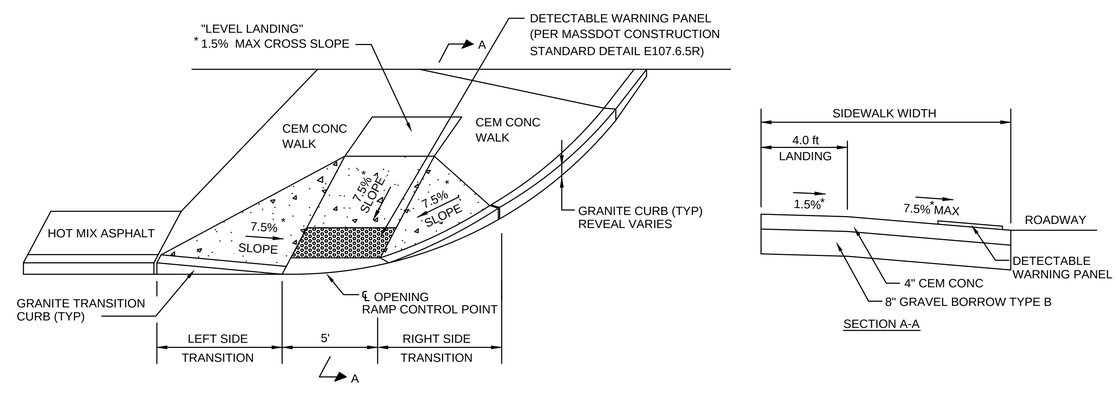
SCALE: NOT TO SCALE
DATE: DEC 2011
DWG: WCR-04



NOTE:
SEE MASSDOT CONSTRUCTION STANDARD DETAIL E107.2.1R
FOR ADDITIONAL INFORMATION.

WHEELCHAIR RAMP 2
STA 13+51.6 LT

SCALE: NOT TO SCALE
DATE: OCT 2008
DWG: WCR-03



NOTE:
SEE MASSDOT CONSTRUCTION STANDARD DETAIL E107.3.0R
FOR ADDITIONAL INFORMATION.

WHEELCHAIR RAMP 3
STA 13+50.8 RT

SCALE: NOT TO SCALE
DATE: DEC 2011
DWG: WCR-01

NANTUCKET
IN-TOWN MULTI-USE PATH

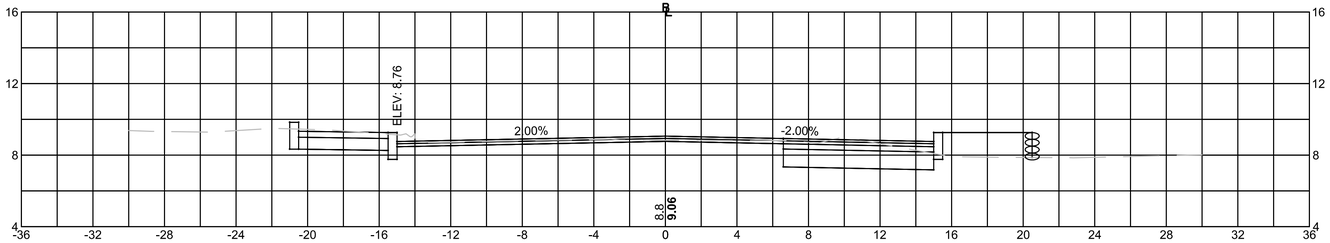
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	26	31
PROJECT FILE NO. 606433			

CROSS SECTIONS
ORANGE STREET

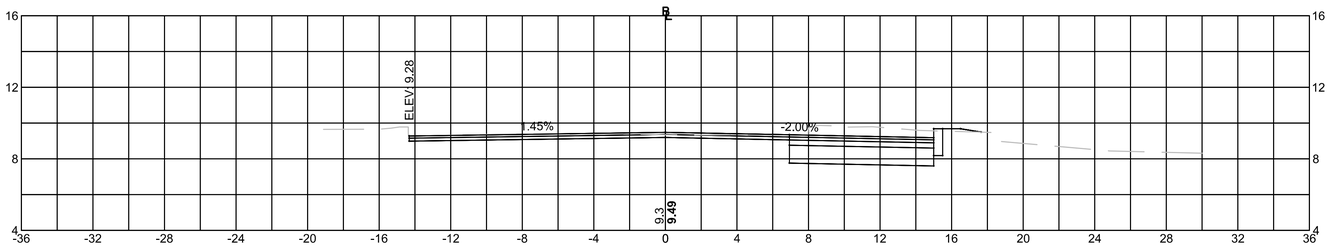
24-Jan-2014

606433-HD11 (XS).DWG

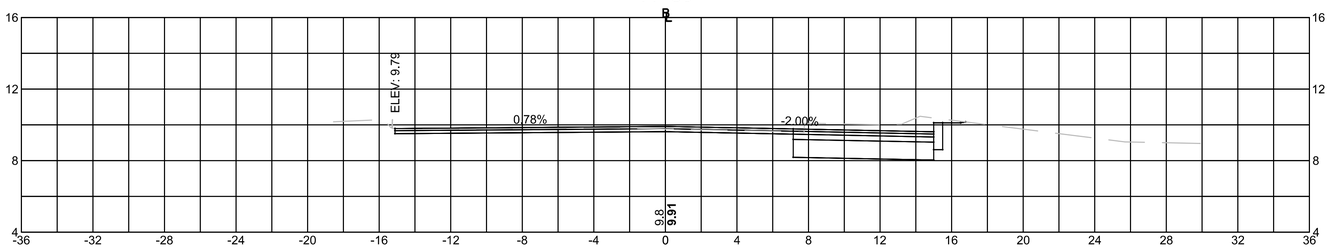
12+50



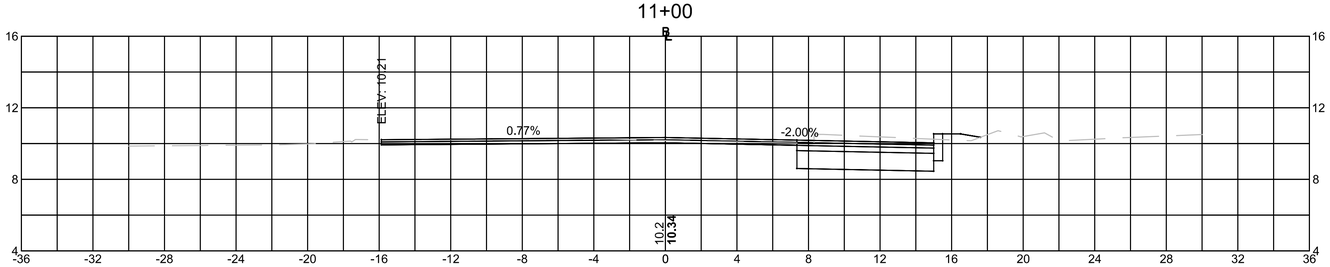
12+00



11+50



11+00



HORIZONTAL
4 0 4 8
4 0 4 8
VERTICAL
SCALE IN FEET

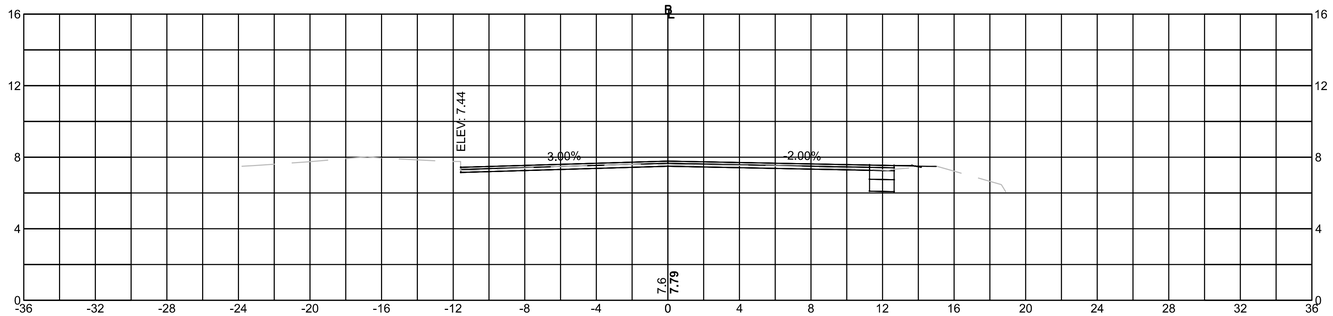
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	27	31
PROJECT FILE NO. 606433			

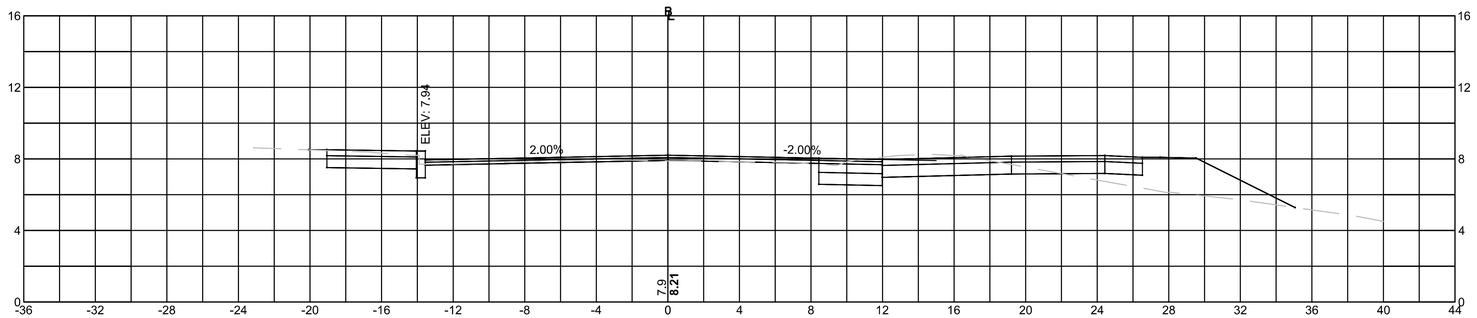
CROSS SECTIONS
ORANGE STREET

606433-HD11 (XS).DWG 24-Jan-2014

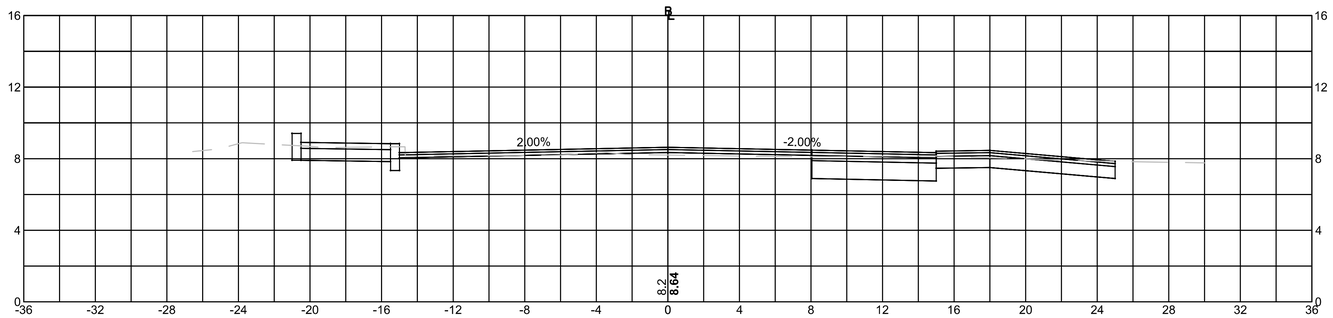
14+00

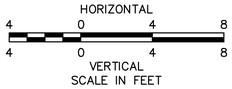


13+50



13+00





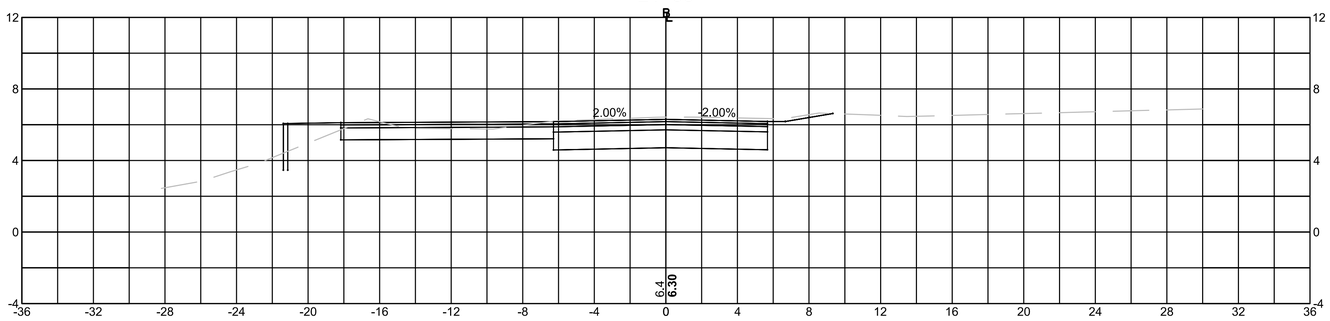
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	28	31
PROJECT FILE NO. 606433			

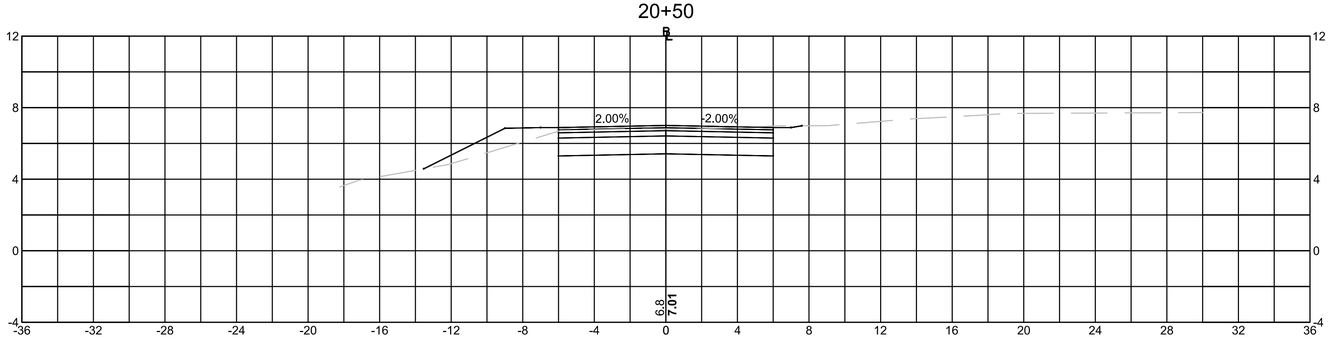
CROSS SECTIONS
GOOSE POND LANE

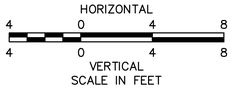
606433-HD11 (XS).DWG 24-Jan-2014

21+00



20+50





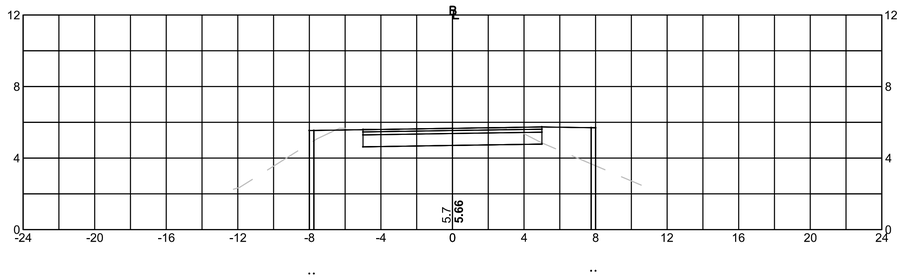
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	29	31
PROJECT FILE NO. 606433			

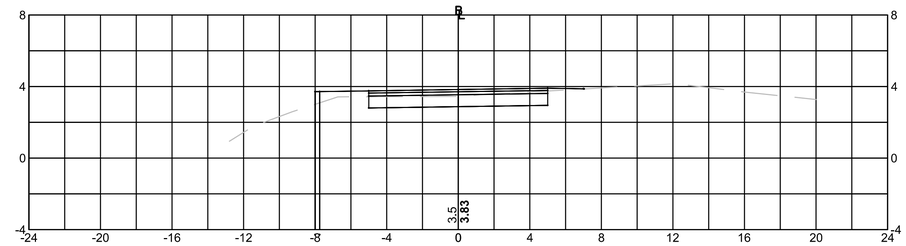
CROSS SECTIONS
MULTI-USE PATH

606433-HD11 (XS).DWG 24-Jan-2014

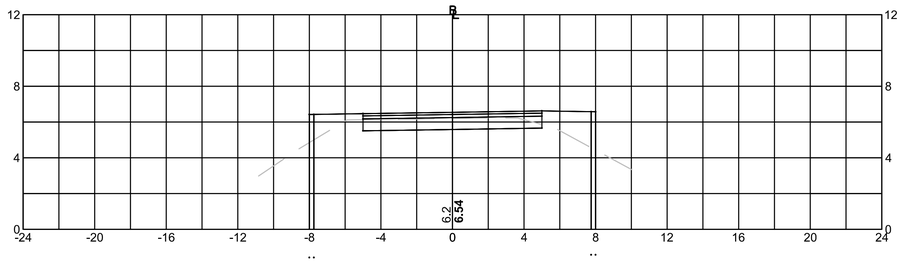
32+00



34+00



31+50



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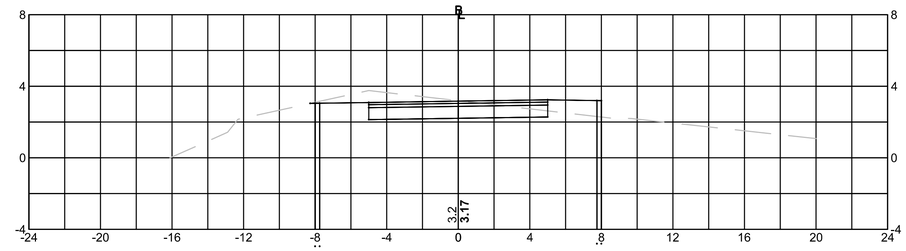

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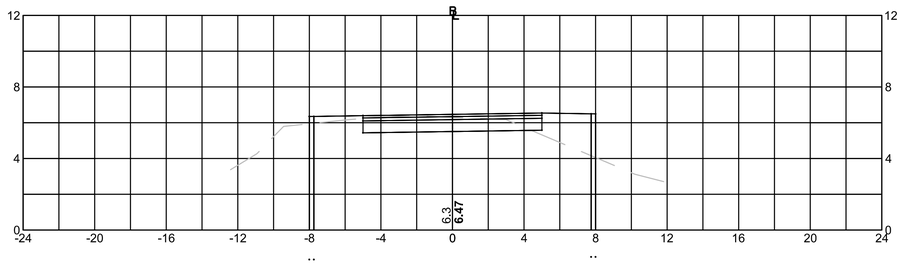

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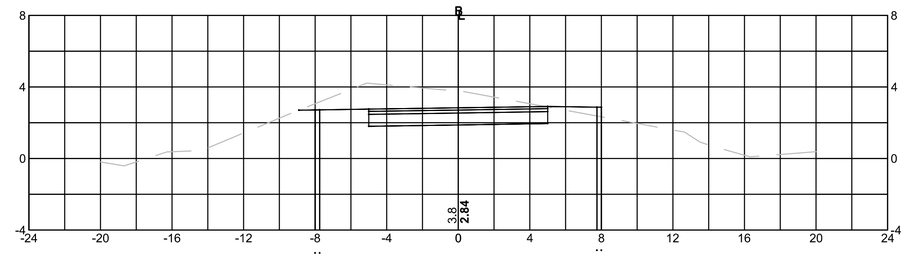

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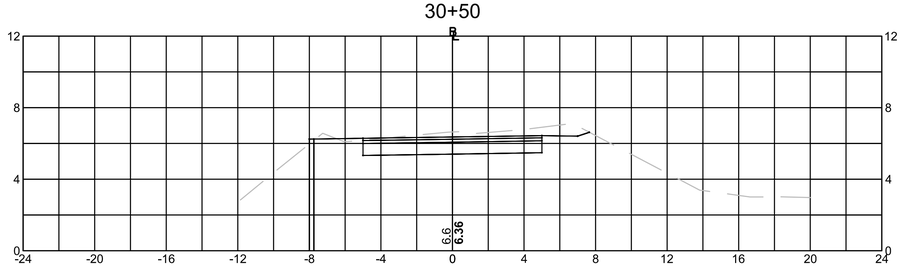

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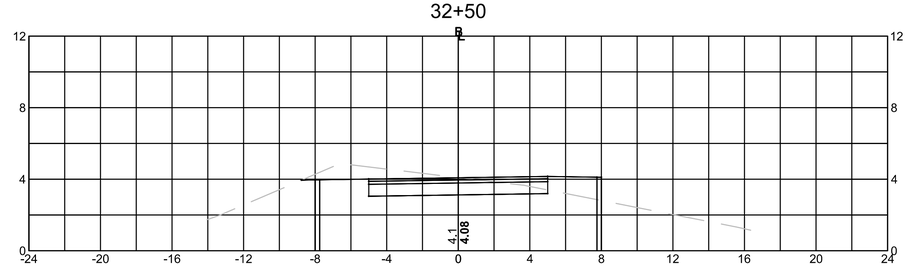
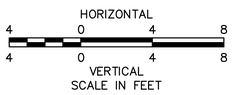




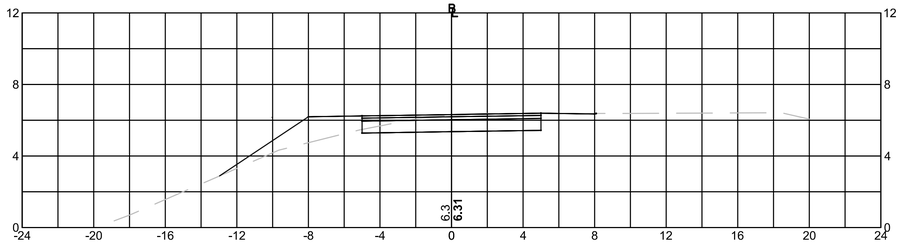
NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	30	31
PROJECT FILE NO. 606433			

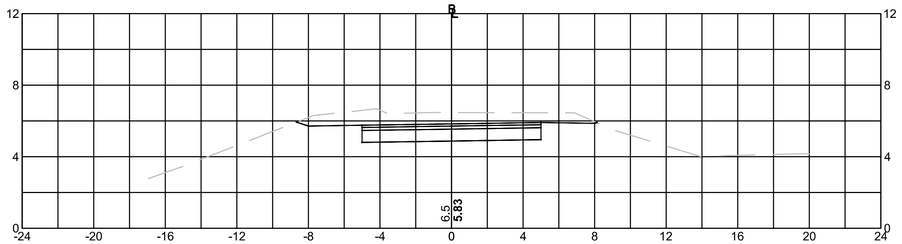
CROSS SECTIONS
MULTI-USE PATH

606433-HD11 (XS).DWG 24-Jan-2014

36+00



35+50



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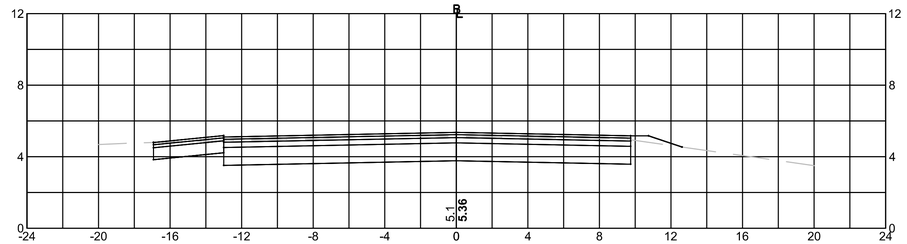

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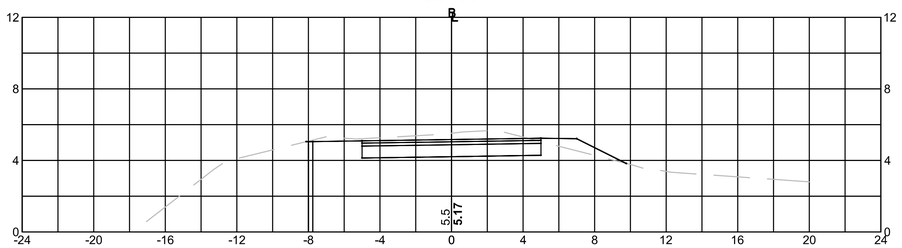

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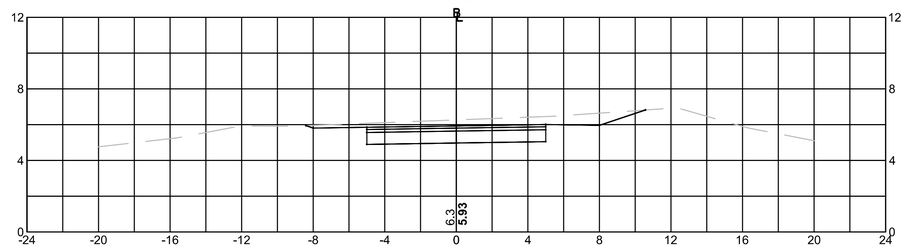

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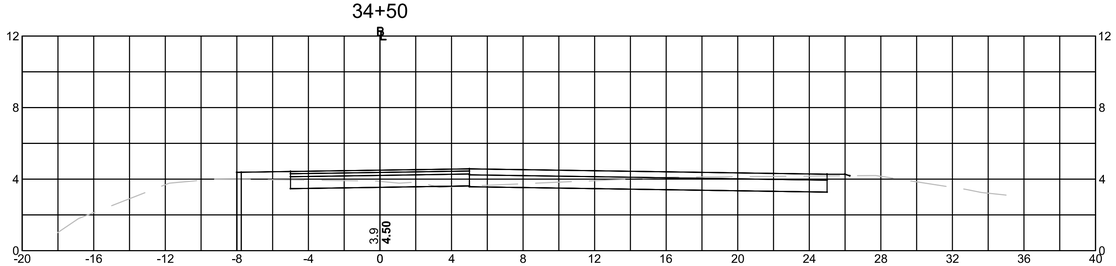
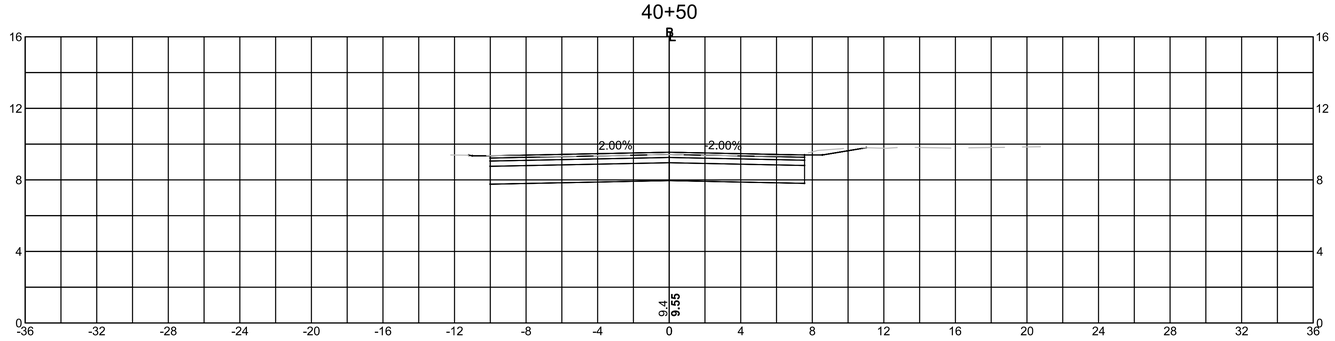
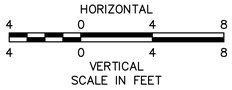


HORIZONTAL
4 0 4 8
4 0 4 8
VERTICAL
SCALE IN FEET

NANTUCKET
IN-TOWN MULTI-USE PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	----	31	31
PROJECT FILE NO. 606433			

CROSS SECTIONS
BEAR STREET

606433-HD11 (XS).DWG 24-Jan-2014

40+50