MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

PLAN AND PROFILE OF

OBERY STREET

ROADWAY IMPROVEMENTS

IN THE TOWN OF

PLYMOUTH

PLYMOUTH COUNTY

FEDERAL AID PROJECT NO. STP-0035(204)X

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	1	120
	PROJECT FILE NO. 606264		

TITLE SHEET & INDEX

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED; THE SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 2015; THE 2017 CONSTRUCTION STANDARD DETAILS; THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS; MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS; THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS; THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS; THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING; AND THE LATEST EDITION OF AMERICAN STANDARDS FOR NURSERY STOCK, WILL GOVERN.

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CONVENTIONAL SIGNS

COUNTY, CITY, OR TOWN BOUNDARY . . . . . —·—·—·—·—·—·—

COUNTY, CITY, OR TOWN SIDE LINE . . . . . — — — — — —

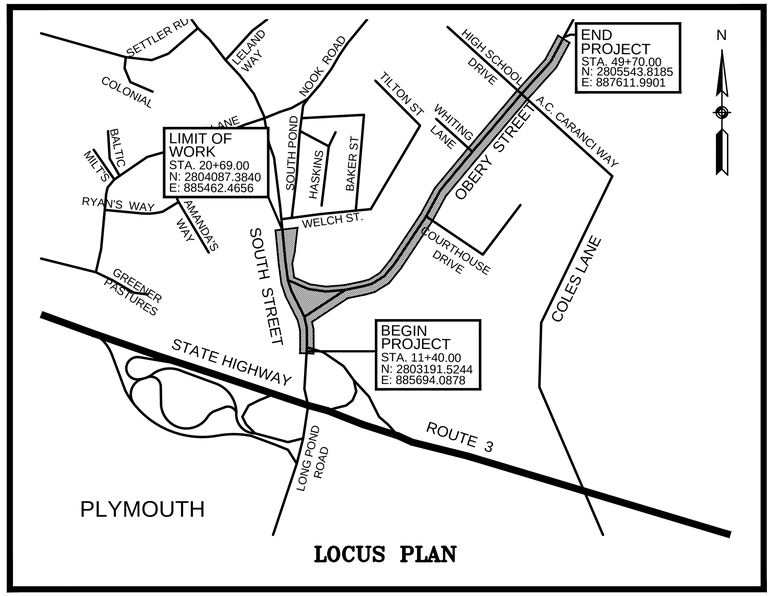
FENCE LINE . . . . . —X—X—X—X—X—

BASE LINE OR SURVEY LINE . . . . . S36°04'20"W 53.578 2+00

RIGHT OF WAY LINE . . . . . ———

POLE . . . . . ○

ELEVATIONS . . . . . PROPOSED SURFACE / PRESENT SURFACE (PRES. 90.7, PROP. 90.91) — 10+20



LOCUS PLAN

PROJECT LIMITS

0 600 1200 1800 2400

SCALE: 1" = 600'

LENGTH OF PROJECT:

LENGTH OF PROJECT:	3877.00 FEET	=	0.734 MILES
SOUTH STREET :	929.00 FEET	=	0.176 MILES
OBERY STREET :	2948.00 FEET	=	0.558 MILES

DESIGN DESIGNATION

	OBERY STREET	SOUTH STREET (SOUTH OF OBERY ST)	SOUTH STREET (NORTH OF OBERY ST)
DESIGN SPEED	35 MPH	35 MPH	35 MPH
ADT (2017)	13,654 VPD	23,751 VPD	13,361 VPD
ADT (2037)	16,660 VPD	28,981 VPD	16,303 VPD
K	8.4%	8.2%	8.3%
D	58%	52%	56%
T (PEAK HOUR)	1.9%	2.6%	1.9%
T (AVERAGE DAY)	2.5%	3.8%	3.2%
DHV	1,399 VPH	2,377 VPH	1,353 VPH
DDHV	811 VPH	1,236 VPH	758 VPH
FUNCTIONAL CLASSIFICATION	URBAN COLLECTOR	URBAN COLLECTOR	URBAN COLLECTOR

PREPARED BY:

JACOBS™ 120 St. James Avenue, 5th Floor, Boston, MA 02116

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 _____

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GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER
CB	CB	CATCH BASIN
		CATCH BASIN CURB INLET
FP	FP	FLAG POLE
GP	GP	GAS PUMP
MB	MB	MAIL BOX
		POST SQUARE
		POST CIRCULAR
WELL	WELL	WELL
EHH	EHH	ELECTRIC HANDHOLE
		FENCE GATE POST
GG	GG	GAS GATE
BHL #	BHL #	BORING HOLE
MW #	MW #	MONITORING WELL
TP #	TP #	TEST PIT
		HYDRANT
		LIGHT POLE
CO.BD.		COUNTY BOUND
		GPS POINT
C	C	CABLE MANHOLE
D	D	DRAINAGE MANHOLE
E	E	ELECTRIC MANHOLE
G	G	GAS MANHOLE
M	M	MISC MANHOLE
S	S	SEWER MANHOLE
T	T	TELEPHONE MANHOLE
W	W	WATER MANHOLE
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY	TPL or GUY	TROLLEY POLE OR GUY POLE
HTP		TRANSMISSION POLE
UFB	UFB	UTILITY POLE W/ FIREBOX
UPDL	UPDL	UTILITY POLE WITH DOUBLE LIGHT
ULT	ULT	UTILITY POLE W / 1 LIGHT
UPL	UPL	UTILITY POLE
		BUSH
SIZE & TYPE		TREE
		STUMP
		SWAMP / MARSH
WG	WG	WATER GATE
PM	PM	PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
100 99		CONTOURS (ON-THE-GROUND SURVEY DATA)
100 99		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
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		EDGE OF PAVEMENT
		LIMIT OF MICROMILLING AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
1	1	CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
RRSG	RRSG	RAILROAD SIGNAL
OR		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
	20'	MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
ONLY	ONLY	PAVEMENT ARROW - WHITE
	SL	LEGEND "ONLY" - WHITE
		STOP LINE
	CW	CROSSWALK
	SWL	SOLID WHITE LINE
	SYL	SOLID YELLOW LINE
	BWL	BROKEN WHITE LINE
	BYL	BROKEN YELLOW LINE
	DWL	DOTTED WHITE LINE (3' LINE, 9' GAP)
	DYL	DOTTED YELLOW LINE (3' LINE, 9' GAP)
	DWLEx	DOTTED WHITE LINE EXTENSION (2' LINE, 6' GAP)
	DYLEx	DOTTED YELLOW LINE EXTENSION (2' LINE, 6' GAP)
	DBWL	DOUBLE WHITE LINE
	DBYL	DOUBLE YELLOW LINE

ABBREVIATIONS

GENERAL

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

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	2	120
PROJECT FILE NO.	606264		

LEGEND & ABBREVIATIONS

ABBREVIATIONS (cont.)

GENERAL

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

TRAFFIC SIGNAL ABBREVIATIONS

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

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PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	3	120
PROJECT FILE NO.	606264		

GENERAL NOTES

GENERAL NOTES

SURVEY/RIGHT-OF-WAY NOTES

1. THIS PLAN IS BASED ON AN ON-THE-GROUND SURVEY PERFORMED BY CHAS. H. SELLS, INC. PERFORMED THROUGH OCTOBER 3RD- 26TH, 2006.
2. THE HORIZONTAL DATUM IS ON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD83). THE VERTICAL DATUM IS NAVD 88 AS TIED INTO GPS.
3. RIGHT OF WAYS AND PROPERTY LINES SHOWN HEREON WERE COMPILED FROM ASSESSORS MAPS, RECORDED DEEDS AND PLANS, AND FIELD EVIDENCE.
4. 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.

GENERAL PROJECT NOTES

5. THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED HEREIN USING NEW MATERIALS OR WHERE APPLICABLE, REUSING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R). ALL OTHER MATERIALS SHALL BE "REMOVED AND STACKED" (R&S) OR DISPOSED OF OFF SITE.
6. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE AND ORDERLY PASSAGE OF VEHICULAR AND PEDESTRIAN TRAFFIC IN AREAS UNDER CONSTRUCTION.
7. TREES AND SHRUBS WITHIN THE LIMITS OF WORK NOT SCHEDULED FOR REMOVAL AS INDICATED ON THE PLANS SHALL ONLY BE REMOVED UPON APPROVAL OF THE ENGINEER.
8. LIMITS OF CLEARING AND GRUBBING ARE TO PROPOSED TOP OR TOE OF SLOPE UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS.
9. 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.

ACCESSIBILITY NOTES

10. IT IS THE INTENT OF THE DESIGN TO PROVIDE A MINIMUM CONSTRUCTED SIDEWALK WIDTH FOR A PATH OF TRAVEL PAST ALL OBSTRUCTIONS OF 3'. THE CONTRACTOR SHALL VERIFY THAT ALL POTENTIAL OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO SIGNS, MAILBOXES, UTILITY POLES, HYDRANTS, AND TRAFFIC SIGNAL EQUIPMENT ARE LOCATED AS TO PROVIDE THIS MINIMUM PATH OF TRAVEL CLEARANCE.
11. DETECTABLE WARNING PANELS SHALL BE INSTALLED ON ALL WHEELCHAIR RAMPS AND SHALL COMPLY WITH THE DIMENSIONAL REQUIREMENTS OF MASSDOT CONSTRUCTION STANDARD E 107.6.5 AND MATERIAL AND INSTALLATION REQUIREMENTS IN THE SPECIAL PROVISIONS. PAYMENT FOR DETECTABLE WARNING PANELS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE WHEELCHAIR RAMPS IN WHICH THEY ARE BEING INSTALLED.

MARKING AND SIGNING NOTES

12. ALL PROPOSED PAVEMENT MARKINGS SHALL MATCH EXISTING MARKINGS AT THE LIMITS OF WORK.
13. CONTRACTOR SHALL COORDINATE WITH JORDAN HOSPITAL AND TRIAL COURT/REGISTRY OF DEEDS PRIOR TO MOVING SIGNS.

DRAINAGE NOTES

1. ALL PROPOSED CATCH BASINS SHALL BE CONSTRUCTED WITH A 4' SUMP DEPTH.
2. IF AN EXISTING PIPE IS DAMAGED DURING INSTALLATION OF A NEW STRUCTURE, THE DAMAGED SECTION SHALL BE REPLACED WITH NEW PIPE AND JOINED TO THE EXISTING PIPE WITH A WATERTIGHT CONNECTION. THE COST FOR ANY WORK ASSOCIATED WITH REPLACING DAMAGED PIPES SHALL BE CONSIDERED INCIDENTAL TO THE PROPOSED DRAINAGE STRUCTURE ITEM AND NO SEPARATE PAYMENT WILL BE MADE.

UTILITY NOTES

1. THE LOCATION OF THE UTILITIES AS SHOWN HEREON HAVE BEEN COMPILED FROM VISIBLE STRUCTURES, PAINT MARKS AND PLANS FROM UTILITIES, IF AVAILABLE. THE ACTUAL LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES SHALL BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE OWNER PRIOR TO ANY CONSTRUCTION. JACOBS AND ITS SUBCONSULTANTS, MASSDOT, AND THE TOWN OF PLYMOUTH MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION HEREON.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ANY AND ALL EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO THE START OF CONSTRUCTION.
3. SHOULD AN EXISTING UTILITY BE FOUND TO BE IN CONFLICT WITH THE PROPOSED WORK, THE LOCATION, SIZE AND TYPE SHALL BE ACCURATELY DETERMINED WITHOUT DELAY, BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
4. THE CONTRACTOR SHALL CONTACT DIGSAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR BEFORE ANY EXCAVATION BEGINS.
5. THE CONTRACTOR SHALL COORDINATE ALL ARRANGEMENTS FOR THE ALTERATION AND/OR ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITY THROUGH THE MASSDOT RESIDENT ENGINEER.
6. THE CONTRACTOR SHALL ADJUST ALL SEWER MANHOLES, WATER VALVE GATE BOXES, WATER SERVICE BOXES, CURB STOPS, AND OTHER WATER SERVICE APPURTENANCES TO THE PROPOSED FINISH GRADE.
7. AT LOCATIONS WHERE PROPOSED DRAINAGE STRUCTURES APPEAR IN CLOSE PROXIMITY TO WATER LINES, THE CONTRACTOR SHALL EXCAVATE A TEST PIT PRIOR TO INSTALLING THE DRAINAGE STRUCTURE TO DETERMINE THE ACTUAL LOCATION AND DEPTH OF THE WATER LINE. THE CONTRACTOR SHALL COORDINATE WITH AND NOTIFY THE PLYMOUTH WATER DEPARTMENT OF THE TEST PIT EXCAVATION IN ADVANCE SO THAT A REPRESENTATIVE CAN OBSERVE THE EXCAVATION.
8. PRIVATE WATER SERVICES THAT ARE IN CONFLICT WITH THE PROPOSED STORMWATER DRAINAGE SYSTEM AND OTHER WORK SHALL BE RELOCATED OR REPLACED.
9. PRIVATE SANITARY SEWER SYSTEM SERVICES THAT ARE IN CONFLICT WITH THE PROPOSED STORMWATER DRAINAGE SYSTEM AND OTHER WORK SHALL BE RESET OR REPLACED AS DIRECTED BY THE ENGINEER.
10. DAMAGE CAUSED BY THE CONTRACTOR'S ACTIONS TO EXISTING PRIVATE WATER OR SANITARY SEWER SERVICE LINES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
11. AT LOCATIONS WHERE PROPOSED DRAINAGE STRUCTURES APPEAR IN CLOSE PROXIMITY TO GAS LINES, THE CONTRACTOR SHALL EXCAVATE A TEST PIT PRIOR TO INSTALLING THE DRAINAGE STRUCTURE TO DETERMINE THE ACTUAL LOCATION AND DEPTH OF THE GAS LINE. THE CONTRACTOR SHALL COORDINATE WITH AND NOTIFY NATIONAL GRID OF THE TEST PIT EXCAVATION IN ADVANCE SO THAT A REPRESENTATIVE CAN OBSERVE THE EXCAVATION.

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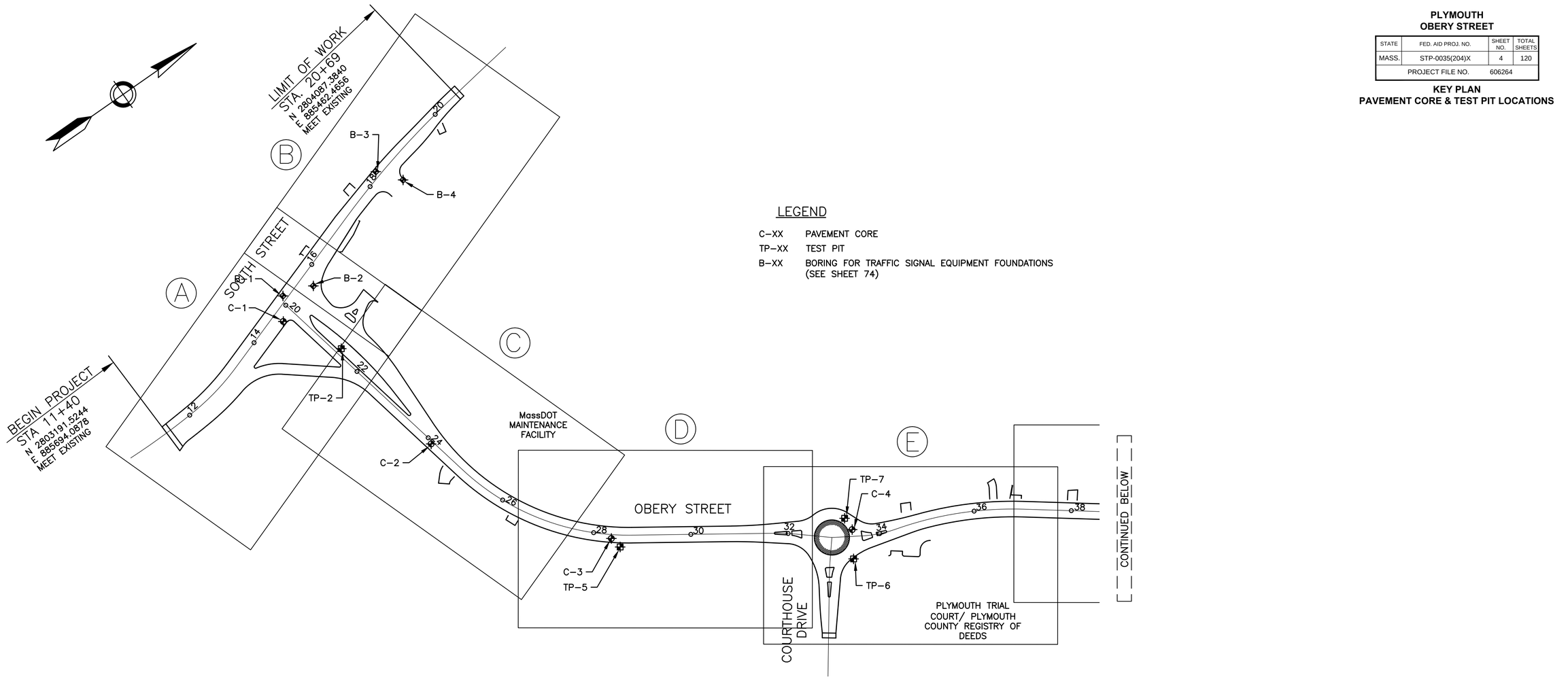
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	4	120
PROJECT FILE NO.	606264		

KEY PLAN
PAVEMENT CORE & TEST PIT LOCATIONS



LEGEND

C–XX	PAVEMENT CORE
TP–XX	TEST PIT
B–XX	BORING FOR TRAFFIC SIGNAL EQUIPMENT FOUNDATIONS (SEE SHEET 74)

PLAN REFERENCE	PLATE A	PLATE B	PLATE C	PLATE D	PLATE E	PLATE F	PLATE G	PLATE H	PLATE I
CONSTRUCTION PLANS	18	19	20	21	22	23	24	25	26
PROFILE	27	28	29/30	31	32/36	33	34/36	35	36
CURB TIE & GRADING PLANS	37/46/48	38	39	40	41/46/49	42	43/47/50	44	45
DRAINAGE AND UTILITY PLANS	51	52	53	54	55	56	57	58	59
SIGN AND PAVEMENT MARKING PLANS	60	61	62	63	64	65	66	67	68

200 100 0 100 200 FEET
SCALE: 1"= 100'

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PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	5	120
PROJECT FILE NO.	606264		

PAVEMENT CORE DATA
TEST PIT LOGS

TEST PIT & PAVEMENT CORE NOTES

1. LOCATIONS OF TEST PITS AND PAVEMENT CORES ARE SHOWN ON THE KEY PLAN.
2. TEST PITS AND PAVEMENT CORES WERE EXCAVATED FOR THE PURPOSE OF DESIGN AND SHOW CONDITIONS AT THE PIT LOCATION ONLY, AND DO NOT NECESSARILY SHOW THE NATURE OF MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
3. STRATUM LINES INDICATED MAY BE TRANSITIONAL AND APPROXIMATE.
4. GROUND ELEVATIONS ARE APPROXIMATE.
5. THE EXCAVATION OF TEST PITS WAS PERFORMED BY THE TOWN OF PLYMOUTH DEPARTMENT OF PUBLIC WORKS IN OCTOBER 2017 AND OBSERVED BY JACOBS.
6. PAVEMENT CORES WERE PERFORMED BY THE TOWN OF PLYMOUTH DEPARTMENT OF PUBLIC WORKS IN OCTOBER 2017.
7. THE TEST PIT AND PAVEMENT CORE INFORMATION SHOWN IS FOR GENERAL INFORMATION ONLY. DETAILED TEST PIT LOGS, PAVEMENT CORES, AND MATERIAL TEST RESULTS ARE PROVIDED IN THE SPECIAL PROVISIONS.

TEST PIT #TP-2
STA. 21+60, 10' LT
GROUND ELEV=116.6

DEPTH	STRATA
6"	TOPSOIL
3'	SAND, LITTLE GRAVEL, LITTLE FILL
5'	COARSE TO FINE SAND & GRAVEL, DEBRIS
7'	MED TO FINE SAND, LITTLE GRAVEL

TEST PIT #TP-5
STA. 28+50, 9' RT
GROUND ELEV=118.7

DEPTH	STRATA
8"	TOPSOIL
4'	COARSE TO FINE SAND, LITTLE GRAVEL
6'	MED TO FINE SAND

TEST PIT #TP-6
STA. 33+35, 10' RT
GROUND ELEV=130.5

DEPTH	STRATA
1'	TOPSOIL
6'	MED TO FINE GRAVEL & MED TO FINE SAND

TEST PIT #TP-7
STA. 33+20, 48' LT
GROUND ELEV=130.9

DEPTH	STRATA
6"	TOPSOIL
4'	COARSE TO FINE SAND & FINE GRAVEL

TEST PIT #TP-9
STA. 45+00, 38' RT
GROUND ELEV=119.3

DEPTH	STRATA
6"	TOPSOIL
3'	COARSE TO FINE SAND, SOME MED TO FINE GRAVEL
7'	COARSE TO FINE SAND

TEST PIT #TP-10
STA. 45+50, 28' RT
GROUND ELEV=118.6

DEPTH	STRATA
6"	TOPSOIL
4'	MED TO FINE SAND, SOME FINE GRAVEL

PAVEMENT CORE #C-1
STA. 14+90, 25' RT
GROUND ELEV=115.2

DEPTH	STRATA
8"	HOT MIX ASPHALT
24"	GRAVEL WITH COBBLES

PAVEMENT CORE #C-2
STA. 24+05, 0' RT
GROUND ELEV=117.6

DEPTH	STRATA
5¾"	HOT MIX ASPHALT
12"	SANDY GRAVEL
24"	SANDY SILT

PAVEMENT CORE #C-3
STA. 28+20, 3' RT
GROUND ELEV=118.8

DEPTH	STRATA
11½"	HOT MIX ASPHALT
24"	SANDY GRAVEL

PAVEMENT CORE #C-4
STA. 33+15, 37' LT
GROUND ELEV=130.1

DEPTH	STRATA
5¼"	HOT MIX ASPHALT
24"	SANDY GRAVEL

PAVEMENT CORE #C-5
STA. 39+10, 15' LT
GROUND ELEV=125.5

DEPTH	STRATA
3¾"	HOT MIX ASPHALT
24"	SANDY GRAVEL

PAVEMENT CORE #C-6
STA. 45+30, 13' RT
GROUND ELEV=119.3

DEPTH	STRATA
3¾"	HOT MIX ASPHALT
24"	SANDY GRAVEL WITH COBBLES

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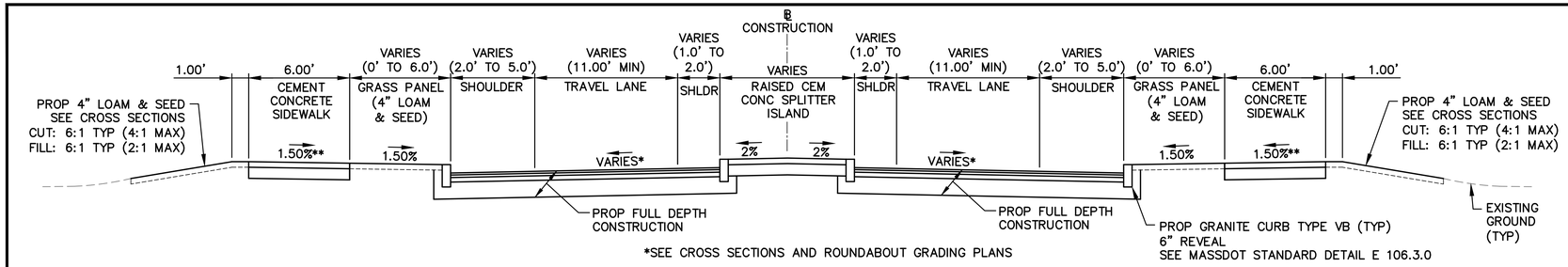
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	6	120
PROJECT FILE NO.	606264		

TYPICAL SECTIONS

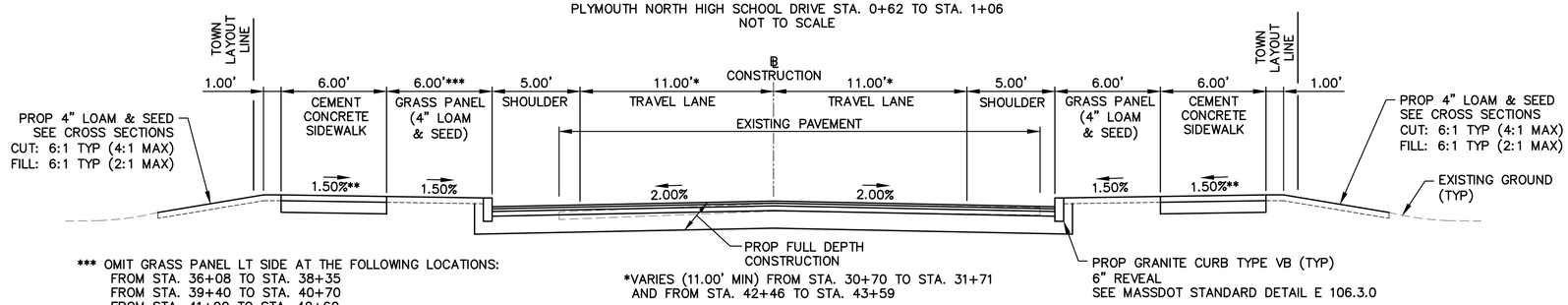


*SEE CROSS SECTIONS AND ROUNDABOUT GRADING PLANS

**TOLERANCE FOR CONSTRUCTION ±0.5%

ROUNDABOUT APPROACH WITH SPLITTER ISLAND

OBERY STREET STA. 31+71 TO STA. 32+28
OBERY STREET STA. 33+63 TO STA. 34+15
OBERY STREET STA. 43+59 TO STA. 44+15
OBERY STREET STA. 45+39 TO STA. 45+87
COURTHOUSE DRIVE STA. 0+62 TO STA. 1+23
A.C. CARANCI WAY STA. 0+62 TO 1+18
PLYMOUTH NORTH HIGH SCHOOL DRIVE STA. 0+62 TO STA. 1+06
NOT TO SCALE



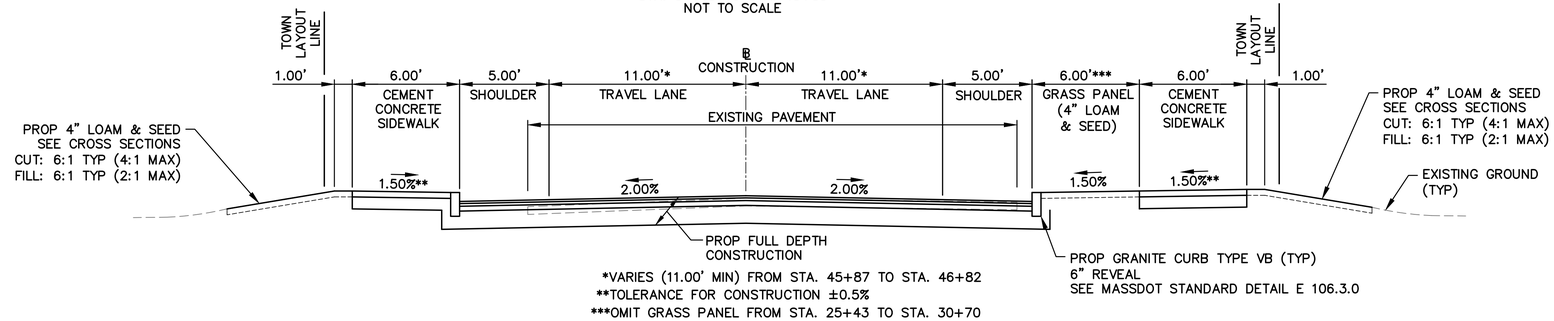
*** OMIT GRASS PANEL LT SIDE AT THE FOLLOWING LOCATIONS:
FROM STA. 36+08 TO STA. 38+35
FROM STA. 39+40 TO STA. 40+70
FROM STA. 41+90 TO STA. 42+60

*VARIES (11.00' MIN) FROM STA. 30+70 TO STA. 31+71
AND FROM STA. 42+46 TO STA. 43+59

**TOLERANCE FOR CONSTRUCTION ±0.5%

OBERY STREET

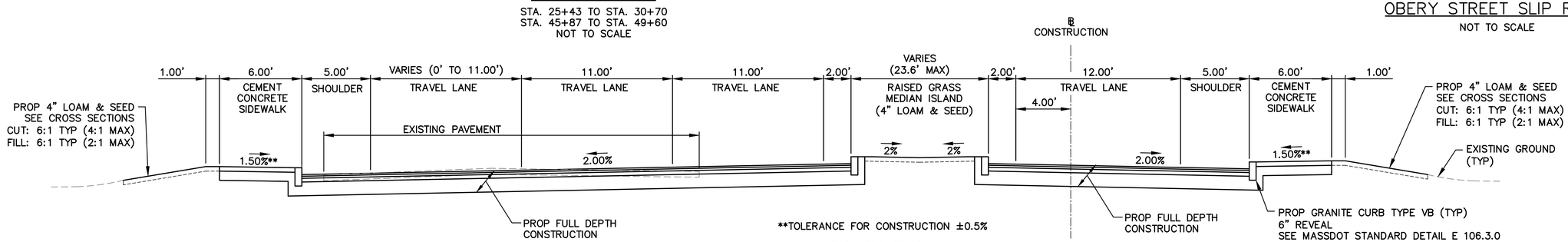
STA. 30+70 TO STA. 31+71
STA. 34+15 TO STA. 43+59
NOT TO SCALE



*VARIES (11.00' MIN) FROM STA. 45+87 TO STA. 46+82
**TOLERANCE FOR CONSTRUCTION ±0.5%
***OMIT GRASS PANEL FROM STA. 25+43 TO STA. 30+70

OBERY STREET

STA. 25+43 TO STA. 30+70
STA. 45+87 TO STA. 49+60
NOT TO SCALE



**TOLERANCE FOR CONSTRUCTION ±0.5%

OBERY STREET

STA. 20+52 TO STA. 23+41
NOT TO SCALE

PAVEMENT NOTES

PROPOSED FULL DEPTH CONSTRUCTION
(OBREY STREET, SOUTH STREET, COURTHOUSE DRIVE, PLYMOUTH NORTH HIGH SCHOOL DRIVE, A.C. CARANCI WAY, OBERY ST SLIP RAMP)

1.75" SUPERPAVE SURFACE COURSE 12.5 (SSC–12.5) OVER
ASPHALT EMULSION FOR TACK COAT OVER
2.25" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC–19.0) OVER
ASPHALT EMULSION FOR TACK COAT OVER
4.5" SUPERPAVE BASE COURSE 37.5 (SBC–37.5) OVER
4" DENSE GRADED CRUSHED STONE FOR SUB–BASE OVER
8" GRAVEL BORROW (TYPE b)

PROPOSED RESURFACING
(AT LIMITS OF WORK TO MEET EXISTING PAVEMENT)
1.75" SUPERPAVE SURFACE COURSE 12.5 (SSC–12.5) OVER
ASPHALT EMULSION FOR TACK COAT OVER
1.75" PAVEMENT MICROMILLING

PROPOSED HMA DRIVEWAYS
1.5" SUPERPAVE SURFACE COURSE 12.5 (SSC–12.5) OVER
2.0" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC–19.0) OVER
8" GRAVEL BORROW OR RECLAIMED BASE COURSE TYPE b

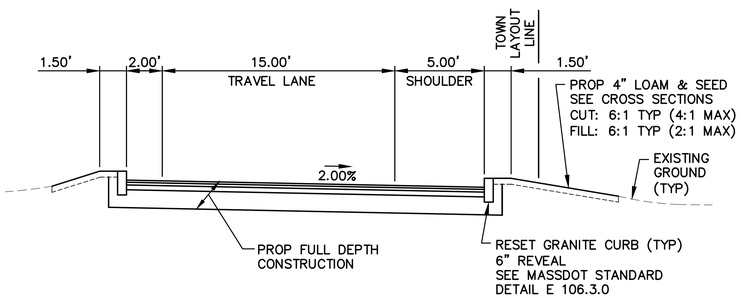
PROPOSED HMA WALKWAY
2.5" SUPERPAVE SURFACE COURSE 12.5 (SSC–12.5) OVER
8" GRAVEL BORROW OR RECLAIMED BASE COURSE TYPE b

CEMENT CONCRETE SIDEWALK, WHEELCHAIR RAMPS, BICYCLE RAMPS, ISLANDS, AND SHARED USE PATH
4" CEMENT CONCRETE OVER
8" GRAVEL BORROW (TYPE b)

CEMENT CONCRETE SIDEWALK AT DRIVEWAY
6" CEMENT CONCRETE OVER
8" GRAVEL BORROW (TYPE b)

GENERAL PAVEMENT NOTES:
1. ALL HMA, HMA FOR PATCHING, ASPHALT EMULSION FOR TACK COAT, HMA JOINT SEALANT, AND PAVEMENT MILLING SHALL BE IN ACCORDANCE WITH SECTION 450 QUALITY ASSURANCE OF HMA AND SECTION 455 SUPERPAVE HMA SPECIFICATIONS.

2. ALL EMBANKMENT SUB–GRADE AND SUB–BASE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGES.



OBERY STREET SLIP RAMP

NOT TO SCALE

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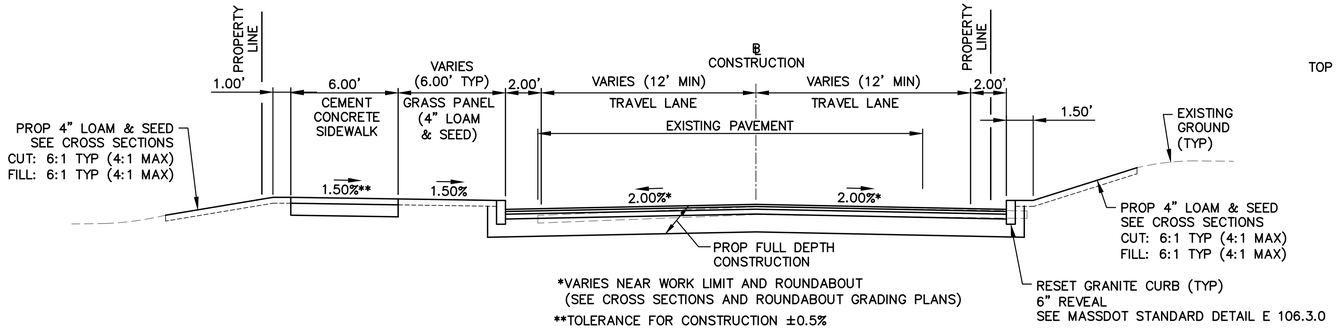
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	7	120
PROJECT FILE NO.	606264		

TYPICAL SECTIONS

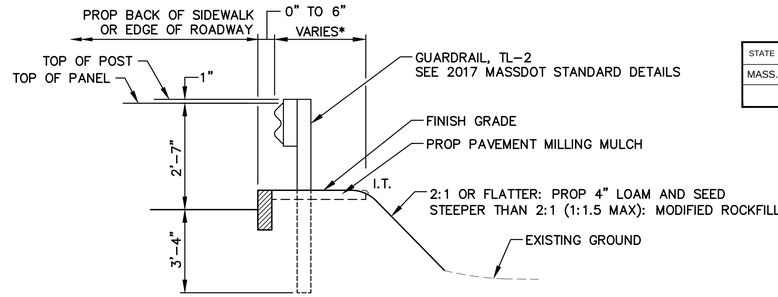


*VARIES NEAR WORK LIMIT AND ROUNDABOUT
(SEE CROSS SECTIONS AND ROUNDABOUT GRADING PLANS)

**TOLERANCE FOR CONSTRUCTION ±0.5%

COURTHOUSE DRIVE

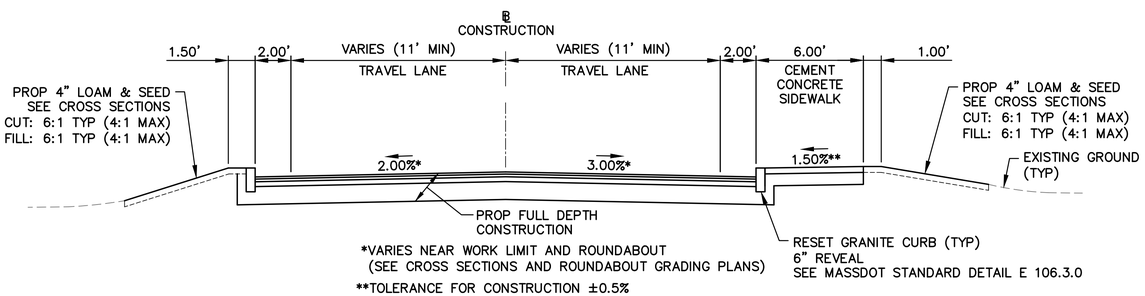
STA. 1+23 TO STA. 1+97
NOT TO SCALE



* 3'-6" FROM STA 11+72 TO STA 13+18 (SOUTH STREET)
6'-0" FROM STA 26+93 TO STA 28+97 (OBERY STREET)

TYPICAL GUARDRAIL SECTION

NOT TO SCALE

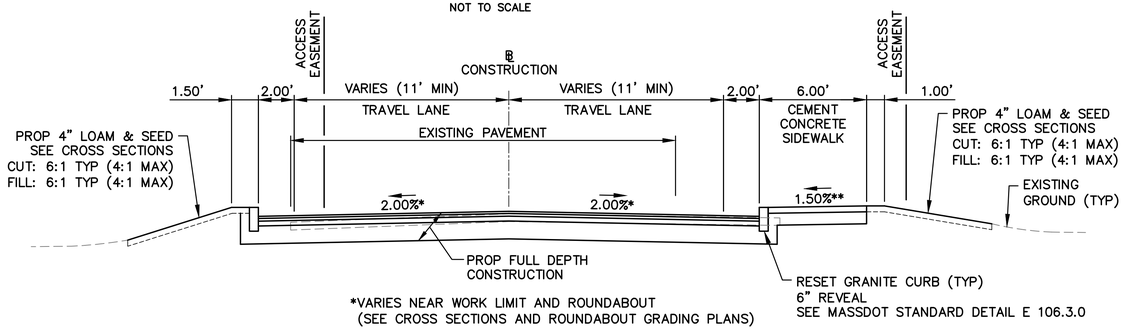


*VARIES NEAR WORK LIMIT AND ROUNDABOUT
(SEE CROSS SECTIONS AND ROUNDABOUT GRADING PLANS)

**TOLERANCE FOR CONSTRUCTION ±0.5%

PLYMOUTH NORTH HIGH SCHOOL DRIVE

STA. 1+06 TO STA. 2+00
NOT TO SCALE

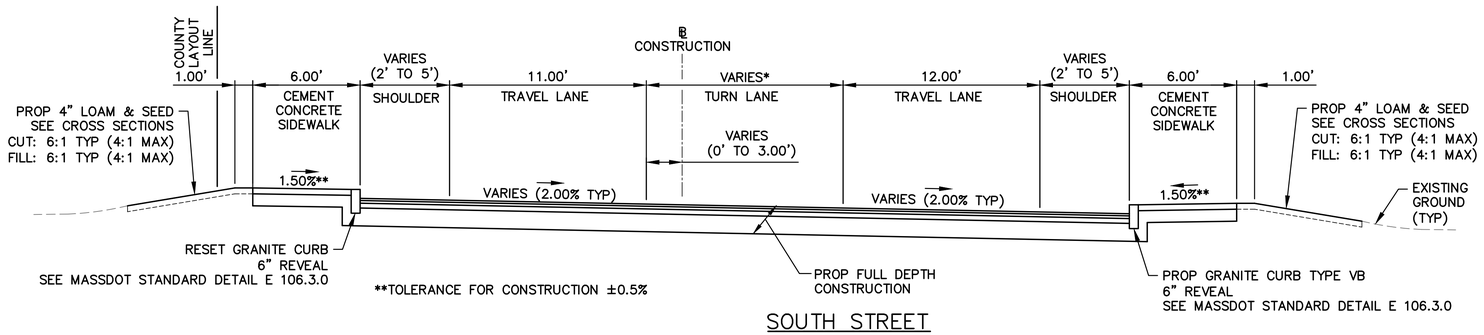


*VARIES NEAR WORK LIMIT AND ROUNDABOUT
(SEE CROSS SECTIONS AND ROUNDABOUT GRADING PLANS)

**TOLERANCE FOR CONSTRUCTION ±0.5%

A.C. CARANCI WAY

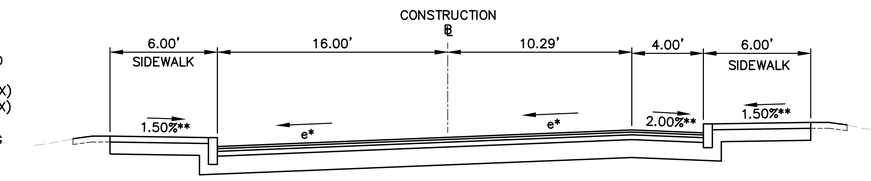
STA. 1+18 TO STA. 2+29
NOT TO SCALE



**TOLERANCE FOR CONSTRUCTION ±0.5%

SOUTH STREET

STA. 15+75 TO STA. 20+59
NOT TO SCALE

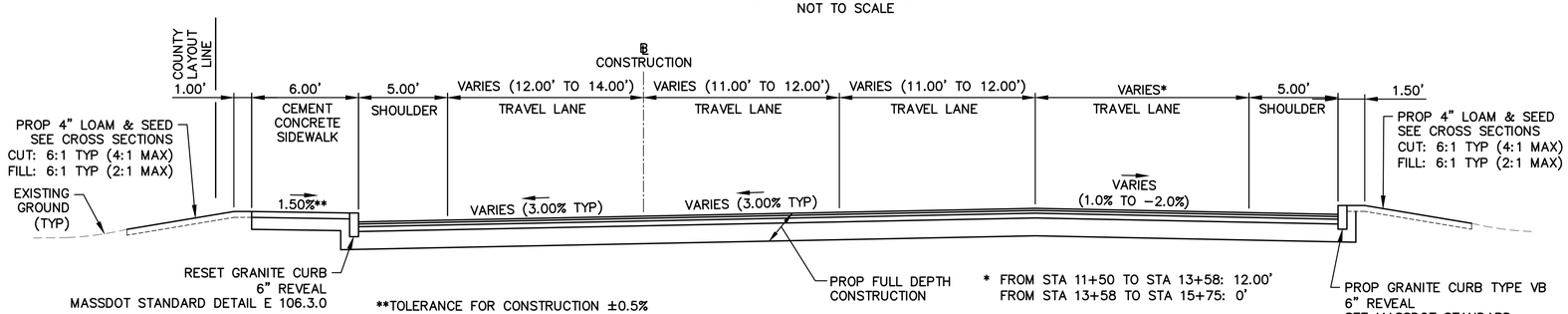


*SEE GRADING & TIE PLANS FOR
SUPERELEVATION RATES AND TRANSITIONS

**TOLERANCE FOR CONSTRUCTION ±0.5%

TYPICAL SUPERELEVATED SECTION – OBREY STREET

NOT TO SCALE

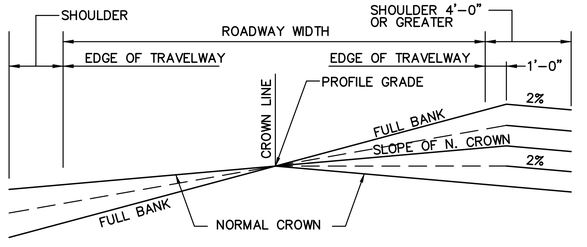


**TOLERANCE FOR CONSTRUCTION ±0.5%

* FROM STA 11+50 TO STA 13+58: 12.00'
FROM STA 13+58 TO STA 15+75: 0'

SOUTH STREET

STA. 11+50 TO STA. 15+75
NOT TO SCALE



NOTE: ROTATION ABOUT CENTERLINE OF TRAVEL WAY

METHOD OF BANKING

NOT TO SCALE

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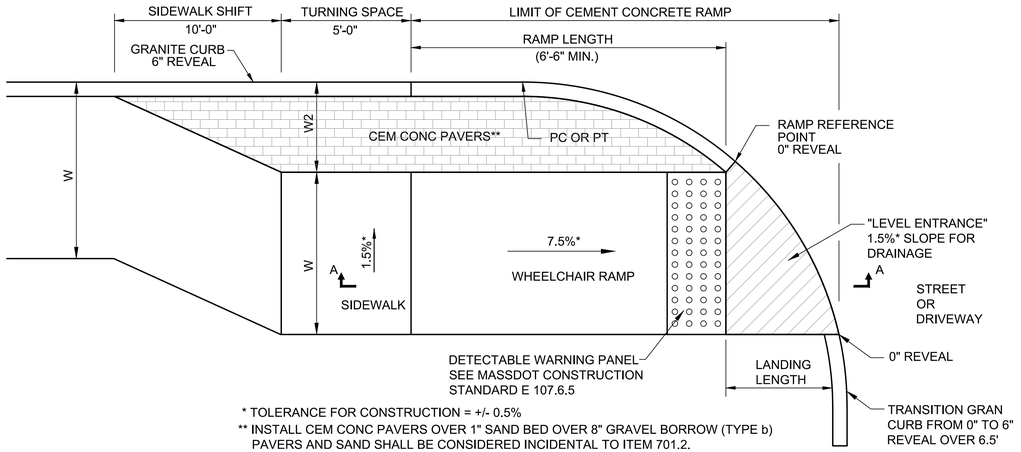
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	8	120
PROJECT FILE NO.	606264		

WHEELCHAIR RAMP DETAILS



* TOLERANCE FOR CONSTRUCTION = +/- 0.5%
** INSTALL CEM CONC PAVERS OVER 1" SAND BED OVER 8" GRAVEL BORROW (TYPE b) PAVERS AND SAND SHALL BE CONSIDERED INCIDENTAL TO ITEM 701.2.

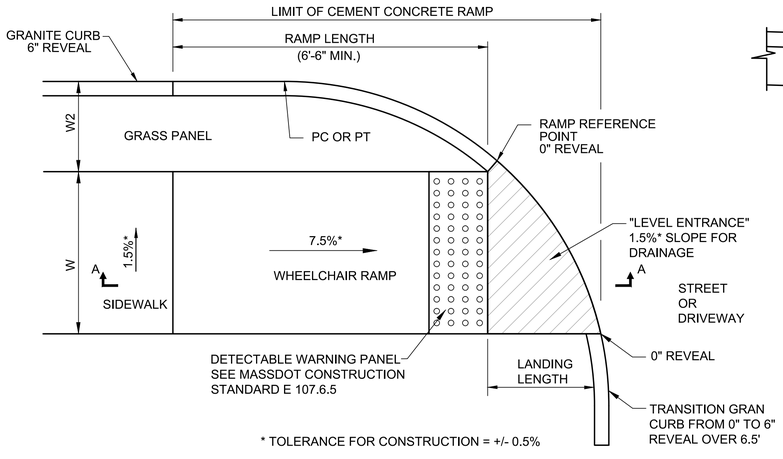
WHEELCHAIR RAMP FOR ONE CONTINUOUS DIRECTION OF TRAVEL WITH PAVERS

NOT TO SCALE

WCR #	STREET/BASELINE	RAMP REF. POINT		GUTTER SLOPE (DOWNGRADE)	WIDTH OF SIDEWALK (W)	PAVERS WIDTH (W2)	RAMP LENGTH	LANDING LENGTH
		STATION	OFFSET					
5	SOUTH STREET	18+06.27	25.03' RT	0.80%	5.00'	5.00'	7.67'	4.28'

WHEELCHAIR RAMP NOTES

1. SIDEWALK CROSS SLOPES WILL BE 1.5% (±0.5%), 1.5% PREFERRED. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 2.0%.
2. FIXED OBJECTS (UTILITY POLES, SIGNS, POSTS, MAILBOXES, ETC.) SHALL NOT BE LOCATED IN LEVEL LANDINGS, LEVEL ENTRANCES, AND RAMPS.
3. THE WHEELCHAIR RAMP SLOPES AND SIDE SLOPES (TRANSITIONS) SHALL BE 7.5%, (±0.5%), 7.5% PREFERRED. THESE SLOPES MAY BE FLATTER WHEN WARRANTED BY SURROUNDING CONDITIONS.
4. THE MAXIMUM SLOPE OF A RAMP SHALL NOT EXCEED 8.3%, EXCEPT WHEN THE RAMP LENGTH IS LIMITED TO 15 FEET. THE MAXIMUM LENGTH OF A RAMP SHALL BE 15 FEET, AT LOCATIONS WHERE THE ROADWAY PROFILE EXCEEDS 4%.
5. IN NO CASE WHERE A STOP LINE IS WARRANTED SHALL A RAMP BE PLACED ON THE TRAFFIC APPROACH SIDE OF THE STOP LINE.
6. IN NO CASE SHALL IS ANY PART OF THE WHEELCHAIR RAMP, EXCLUDING CURB TRANSITIONS, TO BE LOCATED OUTSIDE THE CROSSWALK.
7. THE ENTRANCE OF A WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
8. TESTING SURFACE: WHEN TESTING WITH A STRAIGHT EDGE PLACED PARALLEL TO THE LINE OF THE SLOPE THERE SHALL BE NO DEVIATION FROM A TRUE SURFACE IN EXCESS OF ¼".
8. ALL WHEELCHAIR RAMP CONSTRUCTION SHALL CONFORM TO MASSDOT ENGINEERING DIRECTIVE E-12-005.
9. DETECTABLE WARNING PANELS SHALL BE SET BACK FROM THE EDGE OF ROADWAY A DISTANCE OF 6".
10. INSTALL CURVED DETECTABLE WARNING PANELS FOR WHEELCHAIR RAMPS WHERE THE EDGE OF ROAD CORNER RADIUS IS LESS THAN 15.0'. STRAIGHT PANELS SHALL BE USED WHERE THE RADIUS IS 15' OR LARGER.
11. LEVEL LANDING AND LEVEL ENTRANCE SLOPES SHALL BE 1.5% (±0.5%), 1.5% PREFERRED. IN NO CASE SHALL THE SLOPE EXCEED 2.0% IN ANY DIRECTION.
12. DETECTABLE WARNING PANELS SHALL CONFORM TO THE DIMENSIONS SHOWN IN MASSDOT CONSTRUCTION STANDARD E 107.6.5. THE PANELS SHALL BE CONSIDERED SUBSIDIARY TO ITEM 701.2 - CEMENT CONCRETE WHEELCHAIR RAMP.
13. IN LOCATIONS WHERE AN EXISTING MANHOLE COVER, HANDHOLE COVER, OR OTHER SURFACE TYPE STRUCTURE THAT CANNOT BE REMOVED AND RESET IS WITHIN THE PROPOSED OR EXISTING WHEELCHAIR RAMP, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED TO BE FLUSH WITH THE RAMP SURFACE.

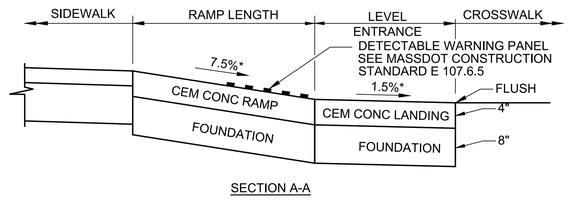


* TOLERANCE FOR CONSTRUCTION = +/- 0.5%

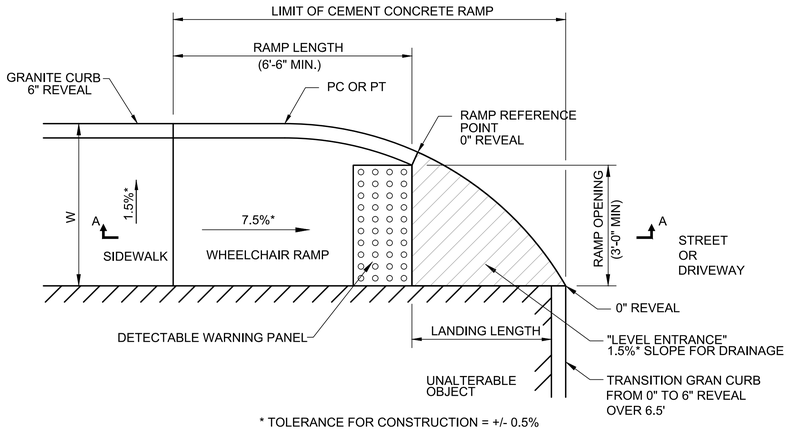
WHEELCHAIR RAMP FOR ONE CONTINUOUS DIRECTION OF TRAVEL WITH GRASS PANEL

NOT TO SCALE

WCR #	STREET/BASELINE	RAMP REF. POINT		GUTTER SLOPE (DOWNGRADE)	WIDTH OF SIDEWALK (W)	GRASS WIDTH (W2)	RAMP LENGTH	LANDING LENGTH
		STATION	OFFSET					
30	OBERY STREET	48+09.58	21.70' RT	3.4%	6.00'	6.00'	15.00'	2.48'



SECTION A-A



* TOLERANCE FOR CONSTRUCTION = +/- 0.5%

WHEELCHAIR RAMP FOR ONE CONTINUOUS DIRECTION OF TRAVEL

NOT TO SCALE

WCR #	STREET/BASELINE	RAMP REF. POINT		GUTTER SLOPE (DOWNGRADE)	WIDTH OF SIDEWALK	RAMP OPENING	RAMP LENGTH	LANDING LENGTH
		STATION	OFFSET					
20	OBERY STREET	40+03.45	17.57' LT	1.0%	6.00'	4.00'	9.00'	4.71'
21	OBERY STREET	40+37.14	17.57' LT	1.0%	6.00'	4.00'	6.50'	4.71'

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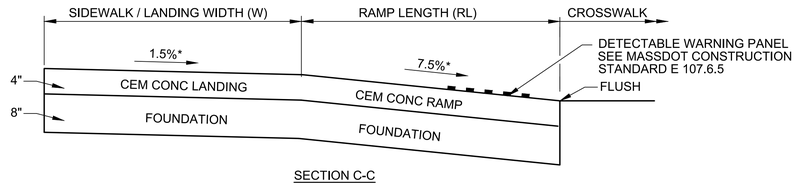
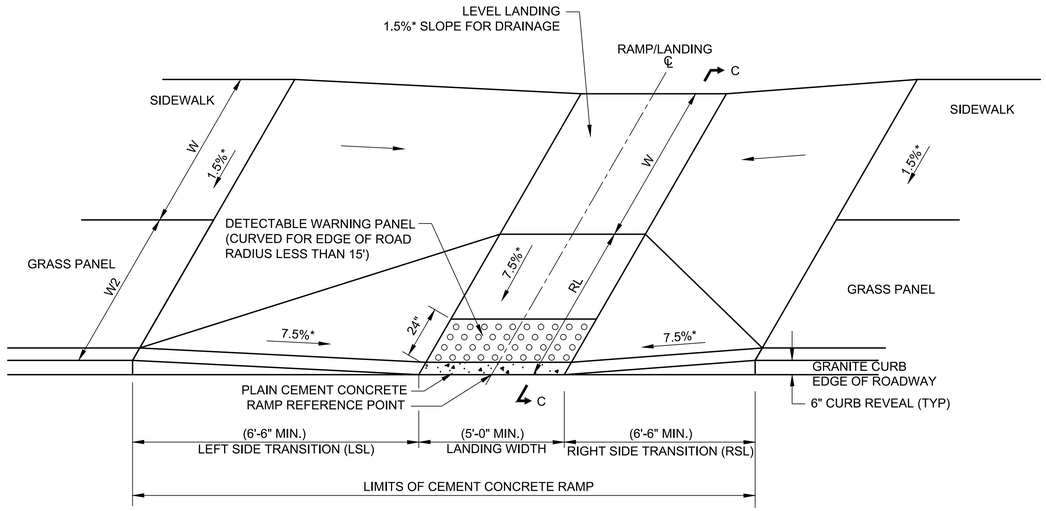
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	9	120
PROJECT FILE NO.	606264		

WHEELCHAIR RAMP DETAILS



SECTION C-C



* TOLERANCE FOR CONSTRUCTION = +/- 0.5%

WHEELCHAIR RAMP LESS THAN 12'–4" SIDEWALK WITH GRASS PANEL

NOT TO SCALE

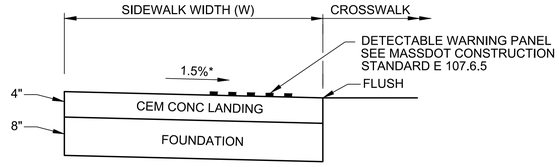
WCR #	STREET/BASELINE	RAMP REF. POINT ℄ OF OPENING		GUTTER SLOPE (DOWNGRADE)	WIDTH OF SIDEWALK (W)	WIDTH OF GRASS (W2)	RAMP LENGTH (RL)	LANDING WIDTH AT GUTTERLINE	TRANSITION LENGTH	
		STATION	OFFSET						LEFT SIDE (LSL)	RIGHT SIDE (RSL)
14	OBERY STREET	31+99.27	23.23' LT	1.7%	8.00'	6.00'	6.00'	10.00'	6.50'	9.00'
15	OBERY STREET	32+02.13	20.89' RT	1.5%	8.00'	6.00'	6.00'	10.00'	9.00'	3.25' (2)
16	COURTHOUSE DRIVE	0+90.40	22.01' RT	1.7%	8.00'	6.00'	6.00'	10.00'	(1)	9.00'
17	COURTHOUSE DRIVE	0+88.27	22.61' LT	1.8%	8.00'	6.00'	6.00'	10.00'	9.00'	6.50'
18	OBERY STREET	33+93.19	22.37' RT	1.3%	8.00'	6.00'	6.00'	10.00'	6.50'	9.00'
19	OBERY STREET	33+88.10	22.27' LT	1.6%	8.00'	6.00'	6.00'	10.00'	9.00'	6.50'
22	OBERY STREET	43+87.52	26.03' LT	0.8%	8.00'	6.00'	6.00'	10.00'	7.67'	6.50'
23	OBERY STREET	43+88.99	18.89' RT	1.0%	8.00'	6.00'	6.00'	10.00'	6.50'	7.67'
24	A.C. CARANCI WAY	0+89.23	22.07' RT	1.3%	8.00'	6.00'	6.00'	10.00'	6.50'	9.00'
25	A.C. CARANCI WAY	0+87.40	21.11' LT	0.6%	8.00'	6.00'	6.00'	10.00'	7.67'	6.50'
26	HIGH SCHOOL DRIVE	0+87.57	21.06' LT	3.1%	8.00'	6.00'	6.00'	10.00'	14.00'	3.25' (3)
27	HIGH SCHOOL DRIVE	0+87.41	25.50' RT	2.0%	8.00'	6.00'	6.00'	10.00'	6.50'	11.00'
28	OBERY STREET	45+64.22	16.24' LT	1.1%	8.00'	6.00'	6.00'	10.00'	9.00'	3.25' (4)
29	OBERY STREET	45+68.08	26.73' RT	1.9%	8.00'	6.00'	6.00'	10.00'	6.50'	9.00'

(1) 6'-6" FOR CURB TRANSITION LENGTH WHERE SIDEWALK DOES NOT CONTINUE.

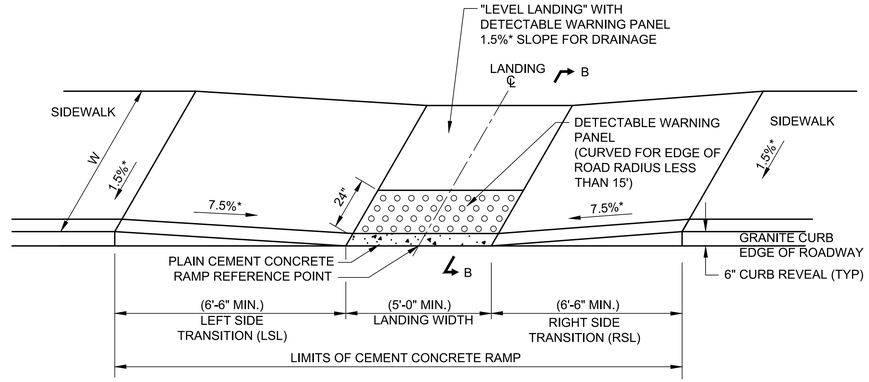
(2) INSTALL GRANITE CURB WITH A 3" REVEAL BETWEEN WCR 15 AND BICYCLE RAMP 1. SEE MASSDOT CONSTRUCTION STANDARD E 107.6.3.

(3) INSTALL GRANITE CURB WITH A 3" REVEAL BETWEEN WCR 26 AND BICYCLE RAMP 6. SEE MASSDOT CONSTRUCTION STANDARD E 107.6.3.

(4) INSTALL GRANITE CURB WITH A 3" REVEAL BETWEEN WCR 28 AND BICYCLE RAMP 7. SEE MASSDOT CONSTRUCTION STANDARD E 107.6.3.



SECTION B-B



* TOLERANCE FOR CONSTRUCTION = +/- 0.5%

WHEELCHAIR RAMP ON NARROW SIDEWALK

NOT TO SCALE

WCR #	STREET/BASELINE	RAMP REF. POINT ℄ OF OPENING		GUTTER SLOPE (DOWNGRADE)	WIDTH OF SIDEWALK	LANDING WIDTH AT GUTTERLINE	TRANSITION LENGTH	
		STATION	OFFSET				LEFT SIDE (LSL)	RIGHT SIDE (RSL)
1	SOUTH STREET	15+79.80	19.00' LT	0.5%	6.00'	5.00'	7.67'	3.25' (3)
2	SOUTH STREET	15+81.39	38.16' RT	1.7%	6.00'	5.88'	6.50'	4.50' (1)
7	SOUTH STREET	18+75.76	15.28' LT	0.8%	6.00'	5.00'	7.67'	6.50'
8	OBERY STREET	20+37.60	13.00' RT	0.4%	6.00'	5.00'	7.67'	(2)
9	OBERY STREET	20+37.93	70.62' LT	1.7%	6.00'	5.89'	3.25' (1)	9.00'
10	OBERY STREET	20+95.31	85.68' LT	0.5%	6.00'	5.88'	6.50'	(2)
11	OBERY STREET	21+34.46	89.79' LT	0.5%	6.00'	5.32'	(2)	7.67'
13	OBERY STREET	21+72.14	42.70' RT	0.9%	6.00'	5.00'	7.67'	(2)

(1) INSTALL GRANITE CURB WITH A 3" REVEAL FOR A MINIMUM DISTANCE OF 5.00' BETWEEN WCR 2 AND WCR 9. SEE MASSDOT CONSTRUCTION STANDARD E 107.6.3.

(2) 6'-6" FOR CURB TRANSITION LENGTH WHERE SIDEWALK DOES NOT CONTINUE.

(3) INSTALL GRANITE CURB WITH A 3" REVEAL FOR A DISTANCE OF 5.00' BETWEEN DWY 2 AND WCR 1. SEE MASSDOT CONSTRUCTION STANDARD E 107.6.3.

WHEELCHAIR RAMP NOTES

REFER TO SHEET 8 FOR WHEELCHAIR RAMP NOTES.

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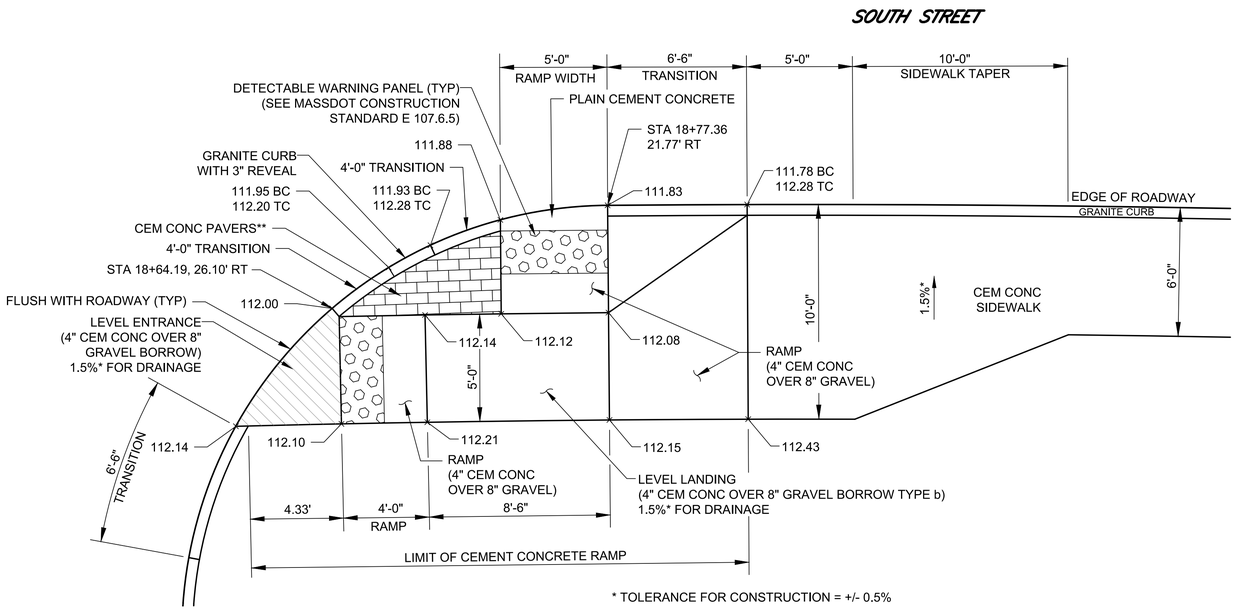
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	10	120
PROJECT FILE NO.	606264		

WHEELCHAIR RAMP DETAILS

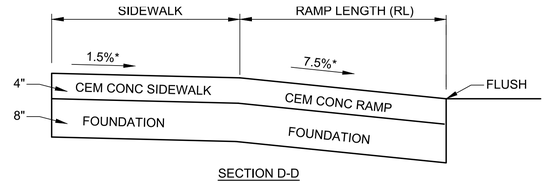


* TOLERANCE FOR CONSTRUCTION = +/- 0.5%

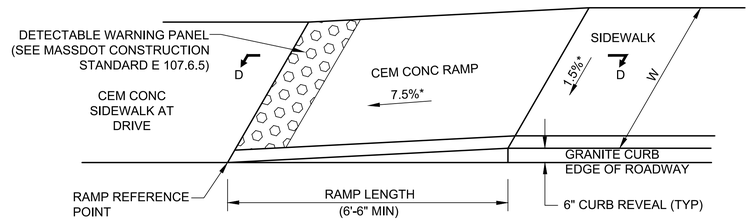
** INSTALL CEM CONC PAVERS OVER 1" SAND BED OVER 8" GRAVEL BORROW (TYPE b) PAVERS AND SAND SHALL BE CONSIDERED INCIDENTAL TO ITEM 701.2.

WHEELCHAIR RAMP 6

NOT TO SCALE



SECTION D-D



* TOLERANCE FOR CONSTRUCTION = +/- 0.5%

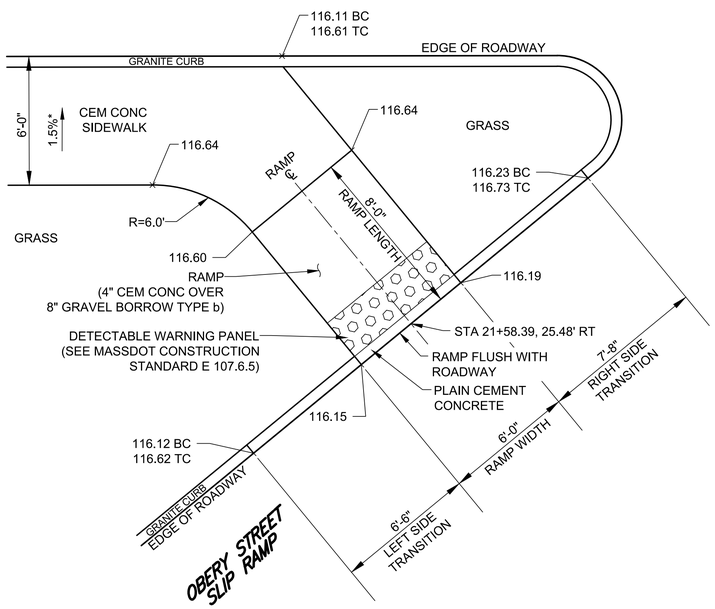
WHEELCHAIR RAMP WITHOUT CURB RADIUS

NOT TO SCALE

WCR #	STREET/BASELINE	RAMP REF. POINT ℄ OF OPENING		GUTTER SLOPE (DOWNGRADE)	WIDTH OF SIDEWALK (W)	RAMP LENGTH
		STATION	OFFSET			
3	SOUTH STREET	16+43.08	25.25' (RT)	0.5%	6.00'	7.67'
4	SOUTH STREET	17+29.59	18.82' (RT)	0.5%	5.50'	6.50'

WHEELCHAIR RAMP NOTES

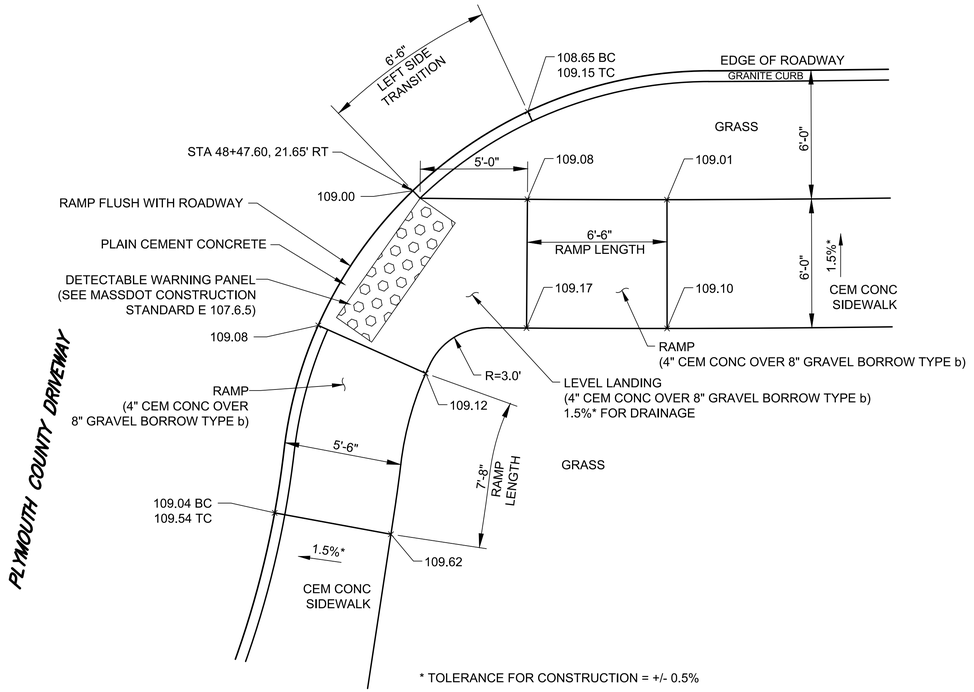
REFER TO SHEET 8 FOR WHEELCHAIR RAMP NOTES.



* TOLERANCE FOR CONSTRUCTION = +/- 0.5%

WHEELCHAIR RAMP 12

NOT TO SCALE



* TOLERANCE FOR CONSTRUCTION = +/- 0.5%

WHEELCHAIR RAMP 31

NOT TO SCALE

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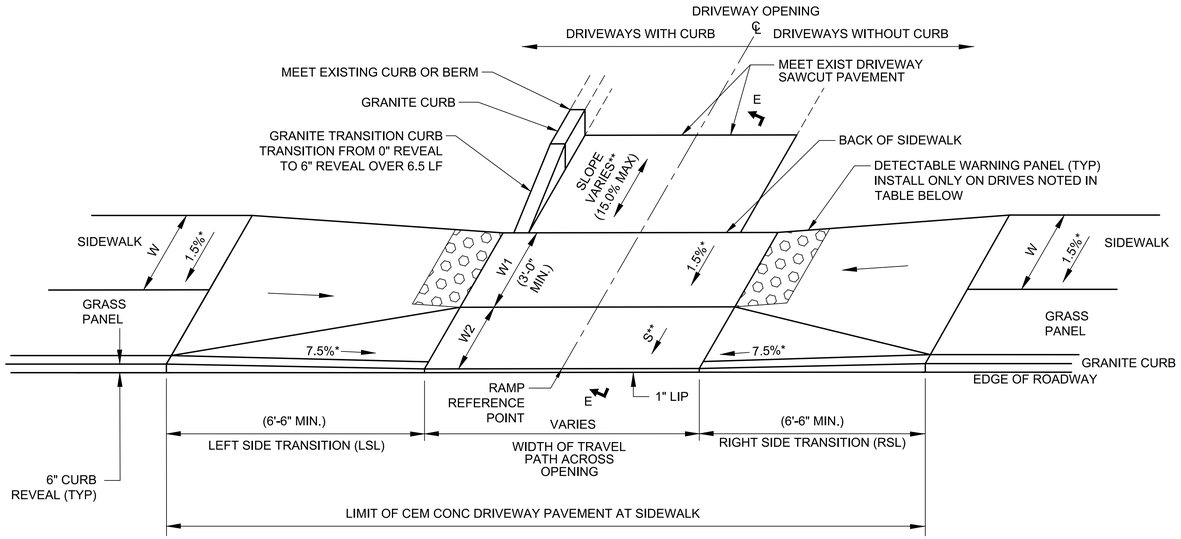
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	11	120
PROJECT FILE NO.	606264		

WHEELCHAIR RAMP DETAILS
DRIVEWAY DETAILS



THIS DETAIL APPLIES TO THE DRIVEWAYS LISTED IN THE TABLE ON THIS SHEET.

* TOLERANCE FOR CONSTRUCTION = +/- 0.5%

** 1.5% (MIN) TO 15% (MAX)

SIDEWALK THROUGH DRIVEWAYS WITHOUT CURB RETURNS

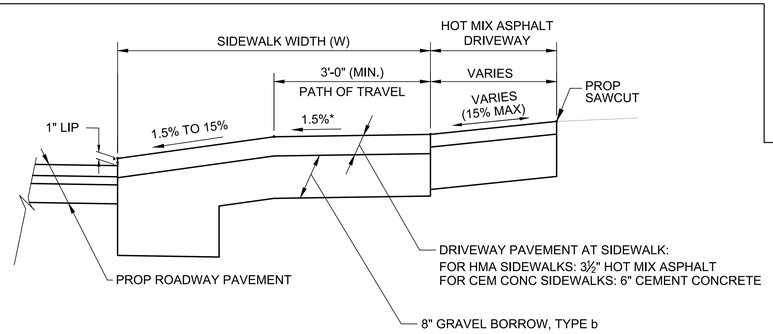
NOT TO SCALE

DRIVEWAY #	STREET/BASELINE	RAMP REF. POINT ℄ OF OPENING		GUTTER SLOPE (DOWNGRADE)	WIDTH OF SIDEWALK (W)	W1	W2	S	TRANSITION LENGTH	
		STATION	OFFSET						LEFT SIDE (LSL)	RIGHT SIDE (RSL)
1	SOUTH STREET	13+99.64	19.00' LT	0.9%	6.00'	4.00'	2.00'	15.0%	6.50'	7.67'
2	SOUTH STREET	16+14.22	19.00' LT	0.5%	6.00'	4.00'	2.00'	1.5%	4.00' (1)	6.50'
3	SOUTH STREET	17+66.50	16.60' LT	0.75%	6.00'	4.00'	2.00'	1.5%	7.67'	6.50'
4	SOUTH STREET	19+91.79	18.13' RT	2.7%	6.00'	4.00'	2.00'	10.0%	6.50'	11.00'
5	OBERY STREET	24+78.08	16.00' RT	2.2%	6.00'	4.00'	2.00'	1.5%	11.00'	6.50'
6	OBERY STREET	25+46.29	16.00' LT	1.6%	6.00'	4.00'	2.00'	1.5%	6.50'	9.00'
7	OBERY STREET	26+36.31	16.00' RT	0.9%	6.00'	4.00'	2.00'	1.5%	6.50'	7.67'
8	OBERY STREET	27+37.15	16.00' LT	1.1% / 0.3%	6.00'	4.00'	2.00'	1.5%	9.00'	7.67'
9	OBERY STREET	31+35.01	17.53' RT	1.2%	6.00'	6.00'	6.00'	1.5%	9.00'	6.50'
10	OBERY STREET	31+48.29	18.10' LT	1.2%	6.00'	6.00'	6.00'	1.5%	6.50'	9.00'
11	OBERY STREET	32+56.73	49.77' LT	0.6%	6.00'	6.00'	6.00'	1.5%	6.50'	7.67'
12	OBERY STREET	34+64.34	16.50' LT	2.2%	6.00'	6.00'	6.00'	5.0%	11.00'	6.50'
13	OBERY STREET	35+42.49	16.00' LT	2.9%	6.00'	6.00'	6.00'	3.5%	11.00'	6.50'
14	OBERY STREET	36+84.71	16.00' LT	0.9%	6.00'	4.00'	2.00'	1.5%	4.00' (2)	7.67'
15	OBERY STREET	38+01.33	16.00' LT	1.0%	6.00'	4.00'	2.00'	1.5%	9.00'	6.50'
16	OBERY STREET	38+75.65	16.00' LT	1.0%	6.00'	6.00'	6.00'	1.0%	9.00'	6.50'
17	OBERY STREET	41+37.11	16.00' LT	1.0%	6.00'	6.00'	6.00'	3.8%	9.00'	6.50'
18	OBERY STREET	43+09.88	18.02' LT	1.2%	6.00'	6.00'	6.00'	1.5%	9.00'	6.50'
19	OBERY STREET	49+43.11	15.15' RT	3.5%	5.50'	5.50'	2.50'	1.5%	6.50'	14.00'
20	SOUTH STREET	16+86.30	22.04' RT	0.5%	6.00'	4.00'	2.00'	1.5%	7.67'	6.50'
21	OBERY STREET	36+40.92	16.00' LT	0.4%	6.00'	4.00'	2.00'	1.5%	7.67'	4.00' (2)

NOTES
1. DRIVEWAYS #1, 2, 3, 4, 5, 6, 7, 8 , 14, 15, 20, AND 21 DO NOT HAVE A GRASS PANEL.
2. INSTALL DETECTABLE WARNING PANELS ON DRIVEWAYS 2, 3, 4, 5, 7, 11, 12, 14, 18 AND 21.

(1) INSTALL GRANITE CURB WITH A 3" REVEAL FOR A MINIMUM DISTANCE OF 5.00' BETWEEN DWY 2 AND WCR 1. SEE MASSDOT CONSTRUCTION STANDARD E 107.6.3.

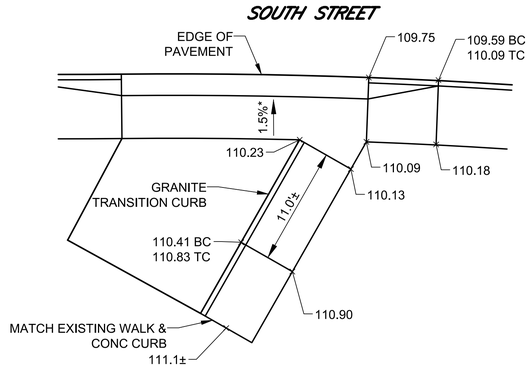
(2) INSTALL GRANITE CURB WITH A 3" REVEAL FOR A MINIMUM DISTANCE OF 5.00' BETWEEN DWY 21 AND DWY 14. SEE MASSDOT CONSTRUCTION STANDARD E 107.6.3.



SECTION E-E

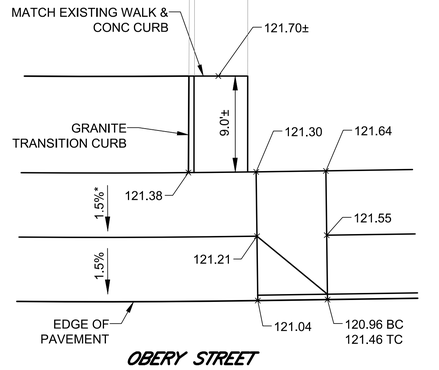
DRIVEWAY NOTES:

1. SIDEWALK CROSS SLOPES WILL BE 1.5% (±0.5%), 1.5% PREFERRED. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 2.0%.
2. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" SHALL BE MAINTAINED.
3. THE TRANSITIONS SHALL BE 7.5%, (±0.5%), 7.5% PREFERRED. THESE SLOPES MAY BE FLATTER WHEN WARRANTED BY SURROUNDING CONDITIONS.
4. THE MAXIMUM SLOPE OF A TRANSITION SHALL NOT EXCEED 8.3%, EXCEPT WHEN THE TRANSITION LENGTH IS LIMITED TO 15 FEET. THE MAXIMUM LENGTH OF A TRANSITION SHALL BE 15 FEET WHERE THE ROADWAY PROFILE EXCEEDS 4%.
5. TESTING SURFACE: WHEN TESTING WITH A STRAIGHTEDGE PLACED PARALLEL TO THE LINE OF THE SLOPE THERE SHALL BE NO DEVIATION FROM A TRUE SURFACE IN EXCESS OF ¼".



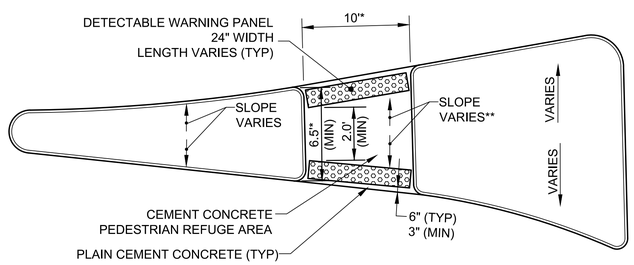
GRADING PLAN – WALKWAY AT DWY 4

NOT TO SCALE



GRADING PLAN – WALKWAY AT DWY 18

NOT TO SCALE



* 6'-0" FOR THE SPLITTER ISLAND PEDESTRIAN REFUGE AREA AT STA. 21+14.66 LT.

** SLOPE 0.4% MIN. TO 1.5% MAX. FOR DRAINAGE.

NOTES:
1. REFER TO MASSDOT CONSTRUCTION STANDARD DETAIL E107.6.5 FOR DETECTABLE WARNING PANEL DETAIL.
2. REFUGE AREA SHALL BE PAID FOR UNDER ITEM 701.2 CEMENT CONCRETE WHEELCHAIR RAMP (SY). DETECTABLE WARNING PANELS SHALL BE INCIDENTAL TO ITEM 701.2.

SPLITTER ISLAND PEDESTRIAN REFUGE AREA

NOT TO SCALE

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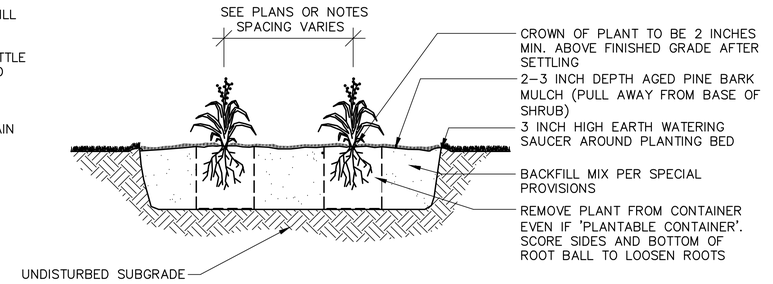
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	12	120
PROJECT FILE NO.	606264		

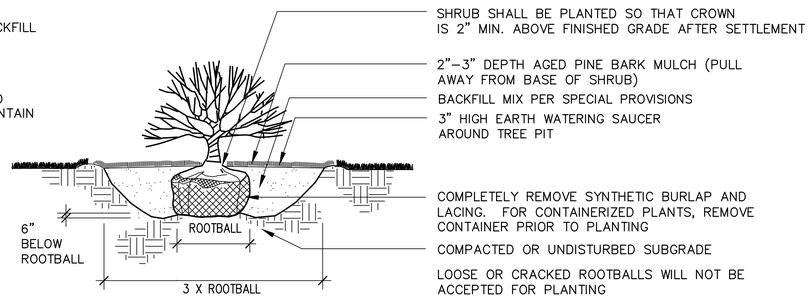
CONSTRUCTION DETAILS

PERENNIAL PLANTING NOTES
1. EXCAVATE TO REQUIRED DEPTH AND BACKFILL WITH PLANTING MIX.
2. RAISE AND REPLANT ANY PLANTS THAT SETTLE MORE THAN 3 INCHES AFTER PLANTING AND WATERING IN.
3. WATER BY FLOODING TWICE IN FIRST TWO HOURS AFTER PLANTING. WATER & MAINTAIN AS PER STANDARD SPECIFICATIONS.



PERENNIAL PLANTING
NOT TO SCALE

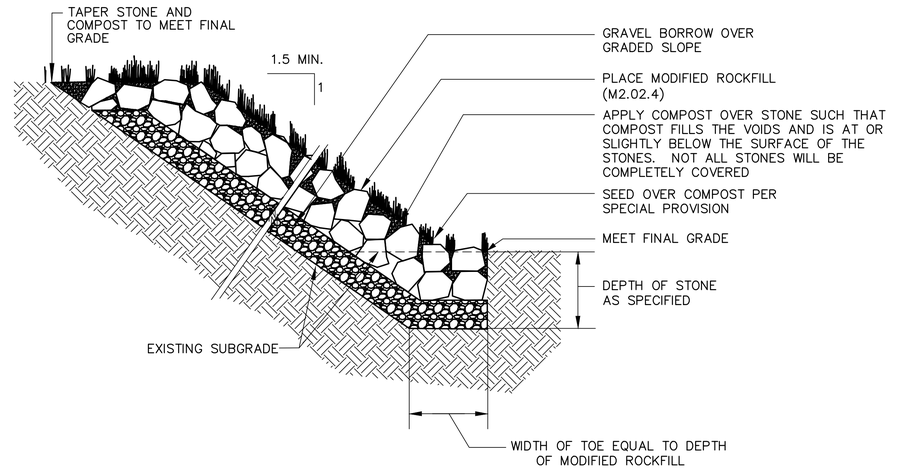
SHRUB PLANTING NOTES
1. EXCAVATE TO REQUIRED DEPTH AND BACKFILL WITH PLANTING MIX.
2. SHRUBS SHALL BE SET PLUMB.
3. WATER BY FLOODING TWICE IN FIRST TWO HOURS AFTER PLANTING. WATER & MAINTAIN AS PER STANDARD SPECIFICATIONS.



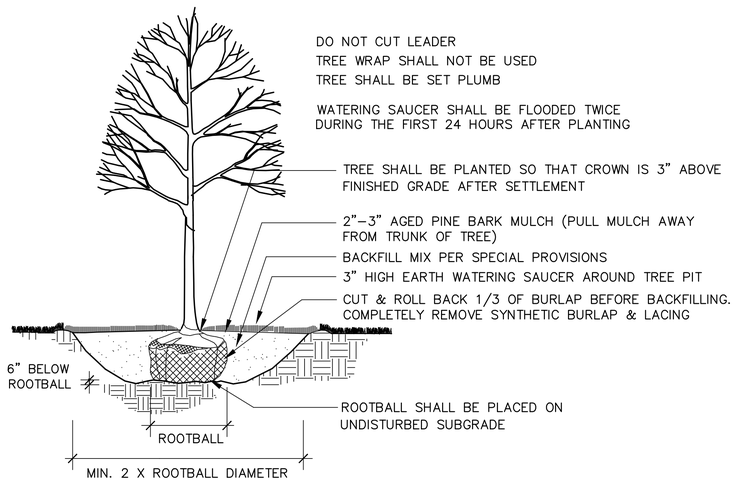
SHRUB PLANTING
NOT TO SCALE

PLANTING NOTES

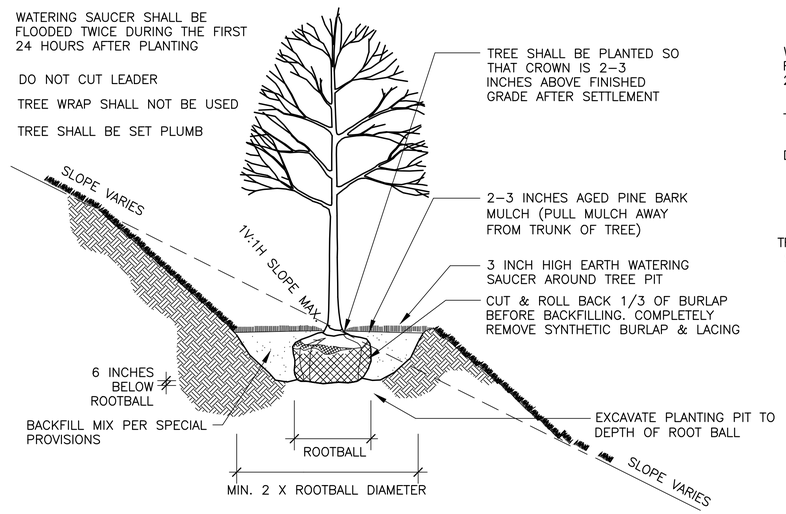
1. LOCATIONS OF PROPOSED PLANTINGS ARE APPROXIMATE AND SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE ENGINEER. ABUTTER OR TOWN REPRESENTATIVE SHALL BE CONSULTED ON LOCATIONS.
2. AVOID LOCATING TREES UNDER OVERHEAD WIRES OR OVER UNDERGROUND UTILITIES.
3. ALL PLANTS SHALL BE BALLED IN BURLAP OR CONTAINERIZED.



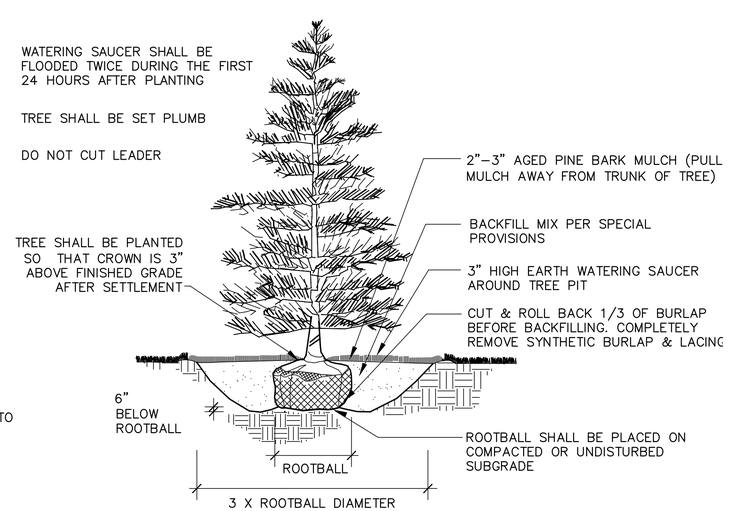
COMPOST AND SEED OVER MODIFIED ROCKFILL (NON–WATERWAY)
NOT TO SCALE



DECIDUOUS TREE PLANTING
NOT TO SCALE



DECIDUOUS TREE PLANTING (SLOPE)
NOT TO SCALE



EVERGREEN TREE PLANTING
NOT TO SCALE

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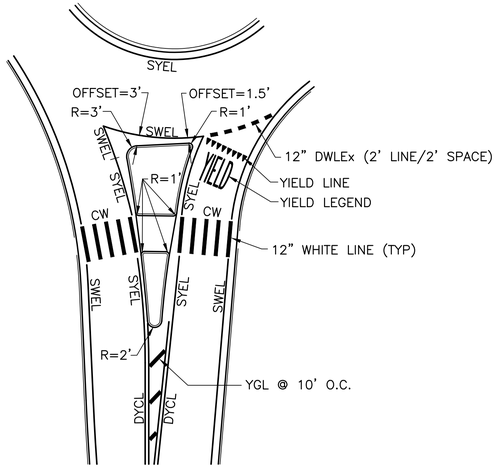
PLYMOUTH
OBERY STREET

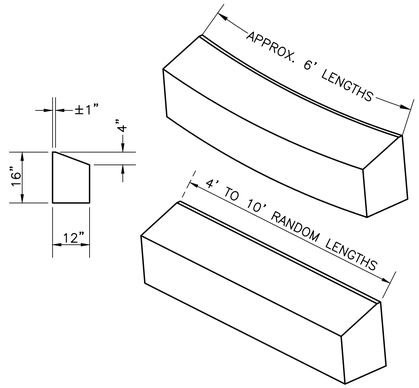
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	13	120
PROJECT FILE NO.	606264		

CONSTRUCTION DETAILS



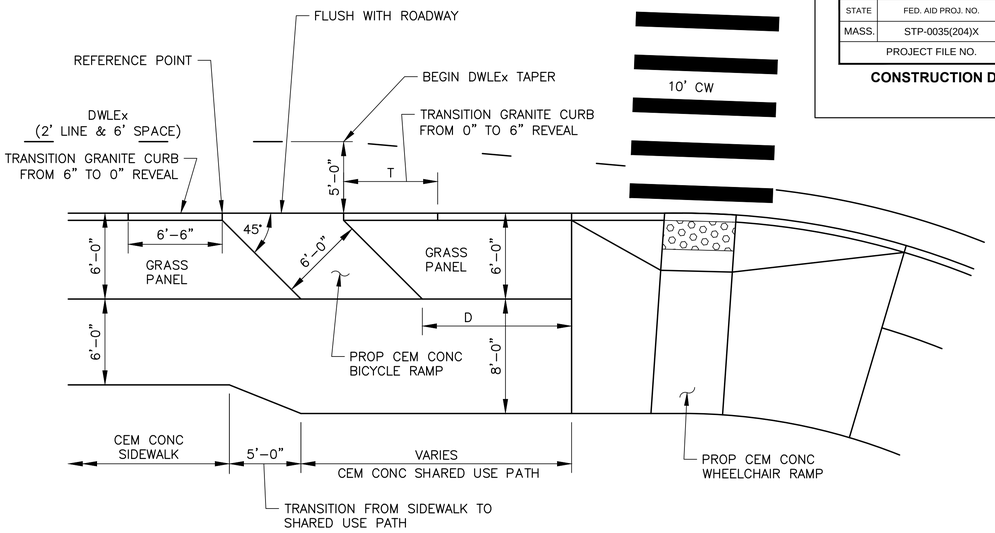
SPLITTER ISLAND PAVEMENT MARKINGS & CURB RADII DETAIL

NOT TO SCALE



GRANITE CURB TYPE T–100

NOT TO SCALE



BICYCLE RAMP AT ROUNDABOUT APPROACHES

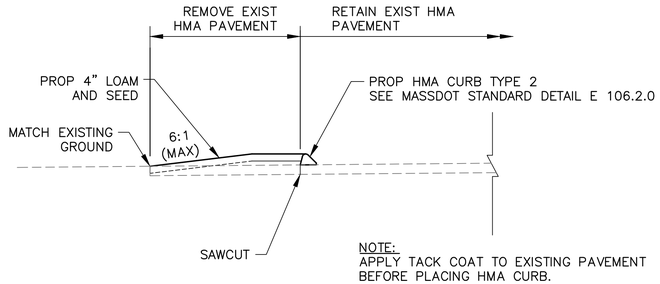
NOT TO SCALE

BICYCLE RAMP #	STREET/BASELINE	RAMP REFERENCE POINT		DISTANCE FROM WCR (D)	CURB TRANSITION (T)	NOTES
		STATION	OFFSET			
1	OBERY STREET	31+75.27	20.13' RT	0.00'	3.25' (1)	
2	COURTHOUSE DR	1+29.88	19.69' LT	16.22'	6.50'	
3	OBERY STREET	34+25.45	20.27' LT	7.90'	6.50'	
4	OBERY STREET	43+46.49	17.50' RT	15.38'	6.50'	
5	A.C. CARANCI WAY	1+22.48	19.75' LT	8.67'	6.50'	
6	HIGH SCHOOL DR	1+22.42	20.28' LT	0.00'	3.25' (2)	INSTALL DETECTABLE WARNING PANEL AT TOP OF RAMP
7	OBERY STREET	45+89.56	16.00' LT	0.00'	3.25' (3)	
8	OBERY STREET	46+31.08	18.59' RT	37.88'	6.50'	
9	OBERY STREET	34+51.47	17.49' RT	35.82'	6.50'	

(1) INSTALL GRANITE CURB WITH A 3" REVEAL BETWEEN WCR 15 AND BICYCLE RAMP 1. SEE MASSDOT CONSTRUCTION STANDARD E 107.6.3.

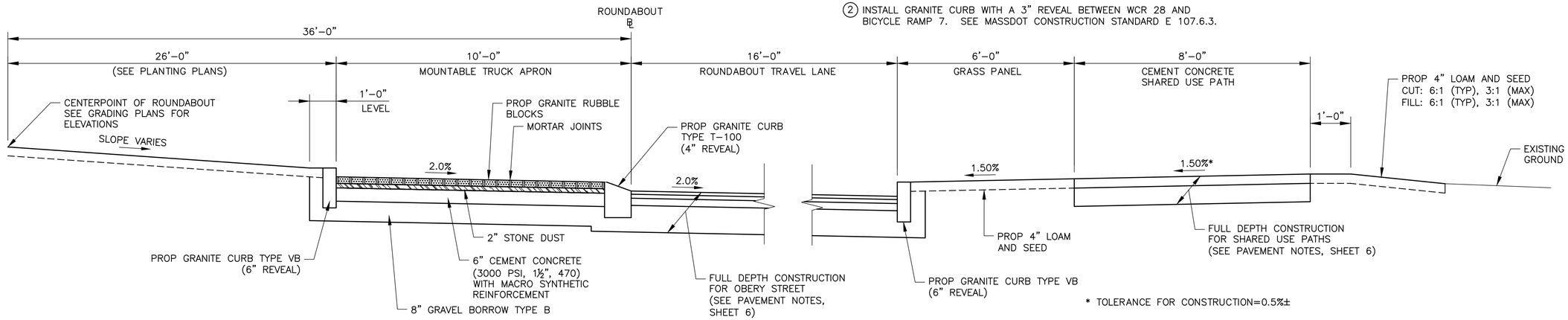
(2) INSTALL GRANITE CURB WITH A 3" REVEAL BETWEEN WCR 28 AND BICYCLE RAMP 7. SEE MASSDOT CONSTRUCTION STANDARD E 107.6.3.

(3) INSTALL GRANITE CURB WITH A 3" REVEAL BETWEEN WCR 26 AND BICYCLE RAMP 6. SEE MASSDOT CONSTRUCTION STANDARD E 107.6.3.



REGISTRY PARKING LOT HMA CURB

NOT TO SCALE



ROUNDABOUT SECTION WITH MOUNTABLE TRUCK APRON AND SHARED USE PATH

NOT TO SCALE

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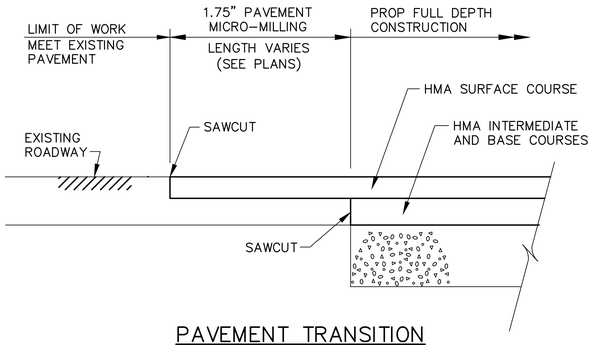
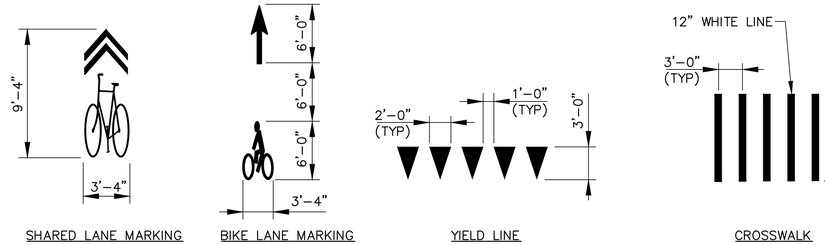
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	14	120
PROJECT FILE NO.	606264		

CONSTRUCTION DETAILS

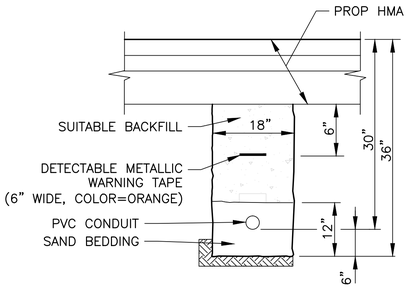


PAVEMENT TRANSITION
NOT TO SCALE

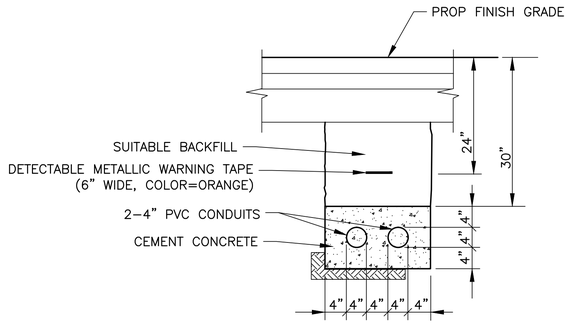


SHARED LANE MARKING | BIKE LANE MARKING | YIELD LINE | CROSSWALK

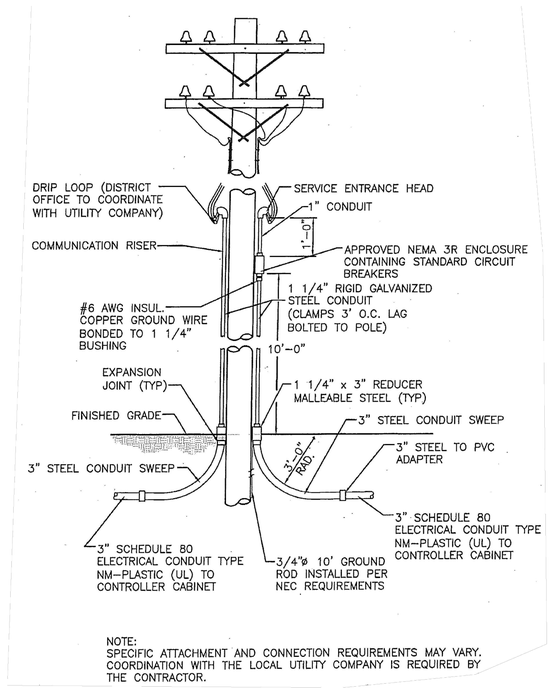
PAVEMENT MARKING DETAILS
NOT TO SCALE



LIGHTING CONDUIT DETAIL
NOT TO SCALE

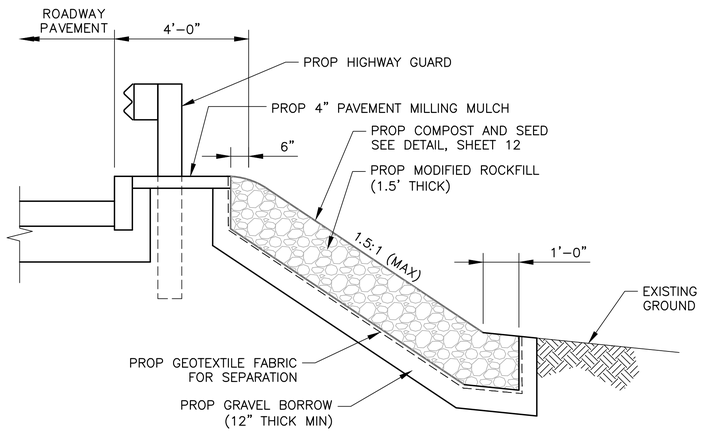


CONCRETE ENCASED ELECTRICAL CONDUIT
NOT TO SCALE

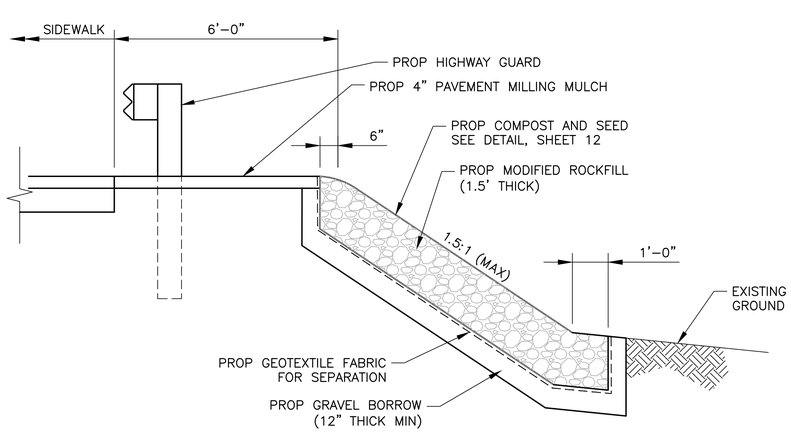


NOTE:
SPECIFIC ATTACHMENT AND CONNECTION REQUIREMENTS MAY VARY. COORDINATION WITH THE LOCAL UTILITY COMPANY IS REQUIRED BY THE CONTRACTOR.

TRAFFIC SIGNAL SERVICE CONNECTION – OVERHEAD
NOT TO SCALE

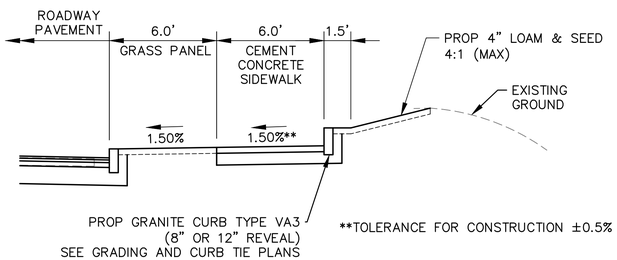


SOUTH STREET (FROM STA 11+75 TO STA 13+15)



OBERY STREET (FROM STA 27+68 TO STA 28+75)

MODIFIED ROCKFILL SLOPE
NOT TO SCALE



**TOLERANCE FOR CONSTRUCTION ±0.5%

SIDEWALK BACK CURB
NOT TO SCALE

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PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	15	120
PROJECT FILE NO.	606264		

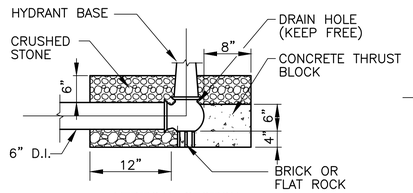
CONSTRUCTION DETAILS

BEARING AREAS – SQUARE FEET

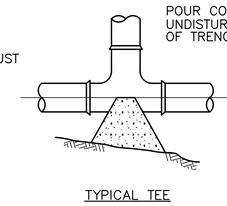
NOMINAL DIAMETER OF FITTING	FITTING				
	DEAD END	BRANCH OF TEE	90° BEND	45° BEND	BEND SMALLER THAN 45° LARGER THAN 10°
6"	2	2	3	2	2
8"	4	4	4	3	2
10"	6	6	8	4	2
12"	8	8	10	6	3
14"	12	12	16	9	4
16"	12	12	20	10	5

THRUST BLOCK NOTES:

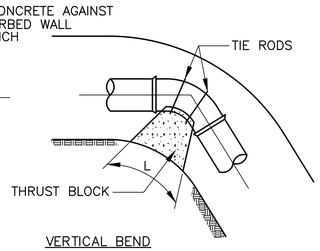
1. ALL BENDS, TEES, HYDRANTS AND DEAD ENDS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS.
2. BEARING AREA IS AREA OF CONCRETE IN CONTACT WITH WALL OF TRENCH = H x L
3. HEIGHT (H) AND LENGTH (L) AS REQUIRED TO OBTAIN BEARING AREA IN TABLE.



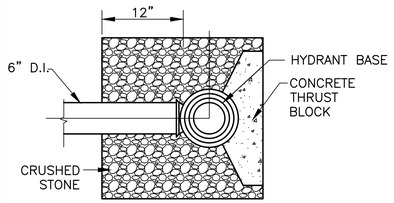
VERTICAL SECTION
HYDRANT BASE



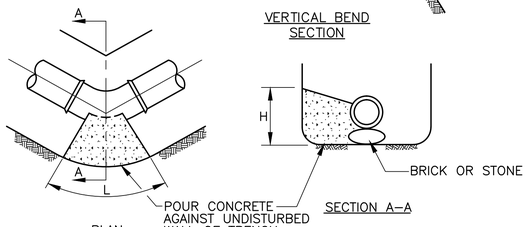
TYPICAL TEE



VERTICAL BEND
SECTION



PLAN

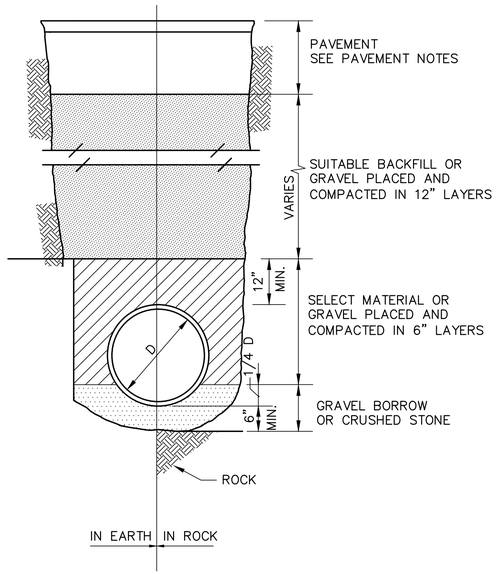


PLAN

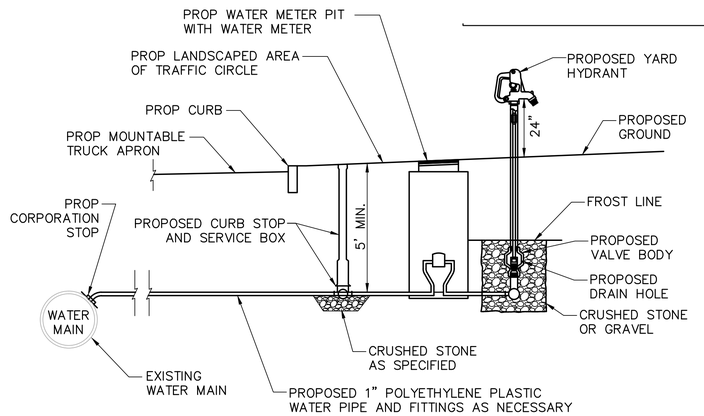
SECTION A–A

HORIZONTAL BEND

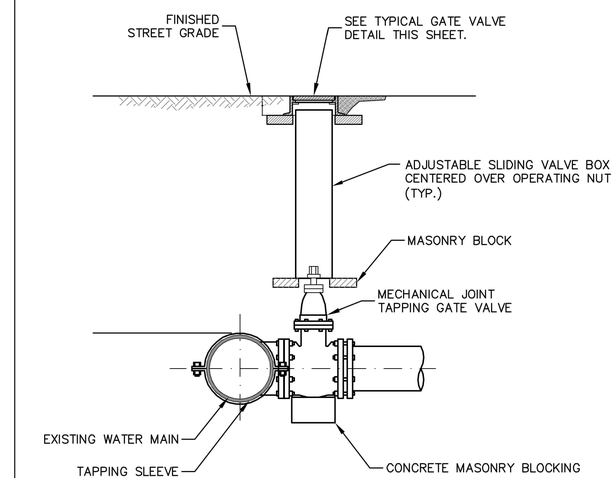
THRUST BLOCK DETAILS
NOT TO SCALE



WATER LINE TRENCH DETAIL
NOT TO SCALE



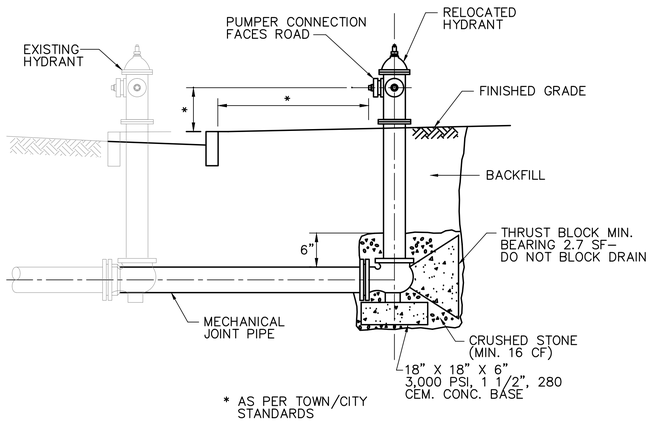
WATER SERVICE AND SPIGOT
NOT TO SCALE



NOTES:

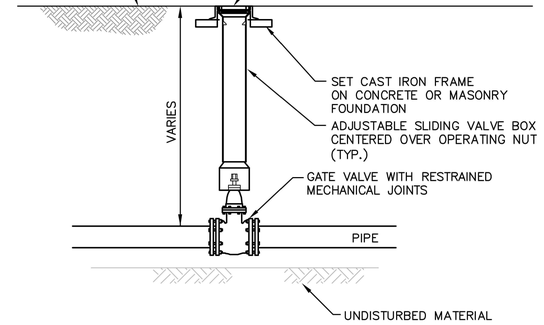
1. ALL MECHANICAL JOINTS TO HAVE RESTRAINED JOINT FITTINGS (MEGALUG OR APPROVED EQUAL).
2. ALL VALVES OPEN LEFT.
3. BEFORE INSTALLING SLEEVE AND VALVE, WIRE BRUSH CLEAN EXISTING PIPE EXTERIOR AND WASH PIPE EXTERIOR, SLEEVE, AND VALVE INTERIOR WITH 5% BLEACH.

TAPPING SLEEVE WITH GATE VALVE
NOT TO SCALE

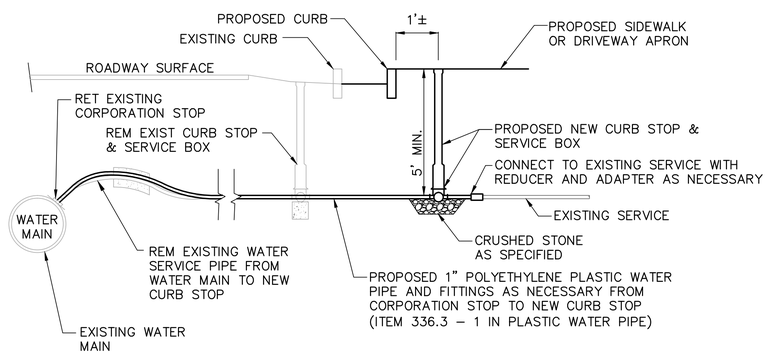


* AS PER TOWN/CITY STANDARDS

HYDRANT RELOCATION DETAIL
NOT TO SCALE



TYPICAL VALVE BOX DETAIL
NOT TO SCALE



WATER SERVICE RELOCATION DETAIL
NOT TO SCALE

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PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	16	120
PROJECT FILE NO.	606264		

CONSTRUCTION DETAILS

SEWER AND WATER MAIN SEPARATION NOTES

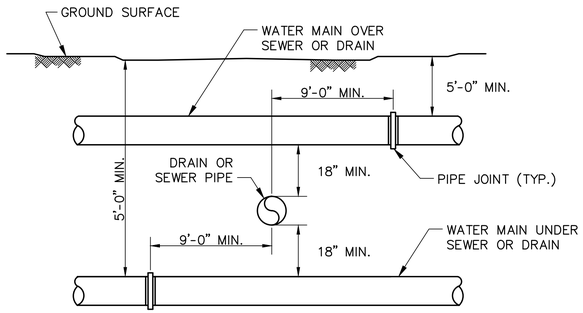
A. HORIZONTAL SEPARATION

WHENEVER POSSIBLE, SEWERS SHALL BE INSTALLED A MINIMUM OF 10 FEET HORIZONTALLY AWAY FROM EXISTING WATER MAINS. IF THIS SEPARATION IS NOT PRACTICAL, AS DETERMINED BY THE ENGINEER, THE SEWER MAYBE INSTALLED CLOSER THAN 10 FEET AWAY BUT AS FAR AWAY AS POSSIBLE PROVIDED THE TOP OF THE SEWER PIPE IS AT LEAST 18 INCHES BELOW THE UNDERSIDE OF THE WATER MAIN AND THE WATER MAIN IS IN A SEPARATE TRENCH.

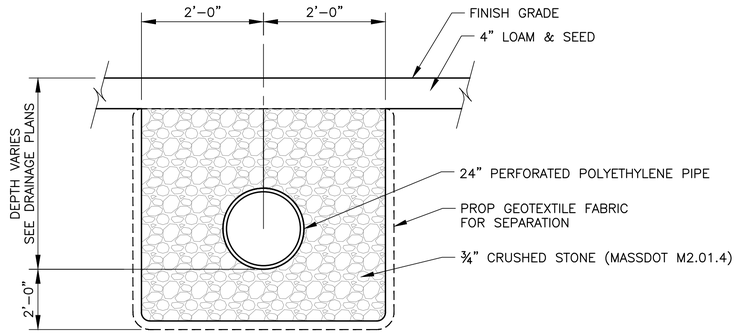
B. VERTICAL SEPARATION

WHENEVER SEWER MUST CROSS WATER MAINS, THE TOP OF THE SEWER PIPE SHALL BE LOCATED AT LEAST 18 INCHES BELOW THE UNDERSIDE OF THE WATER MAIN. THE SEWER JOINTS SHOULD BE EQUIDISTANT FROM AND LOCATED AS FAR AWAY AS POSSIBLE FROM THE WATER MAIN JOINTS. WHEN THIS SEPARATION IS NOT POSSIBLE, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE FOR THE MINIMUM 18 INCH SEPARATION WHILE MAINTAINING A MINIMUM OF 5 FEET OF COVER OVER THE WATER MAIN.

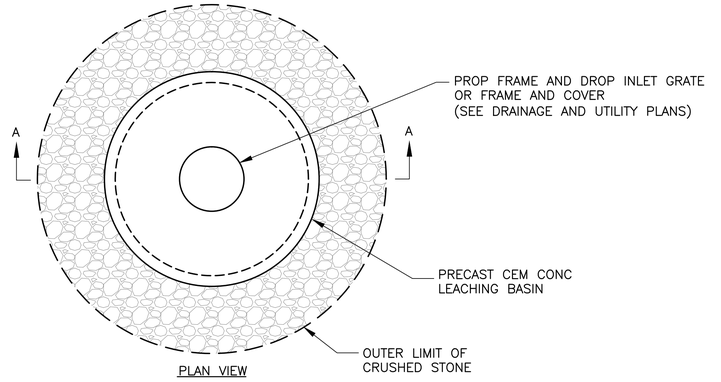
C. DURING THE GUARANTEE PERIOD, THE CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO REPAIR ANY LEAKS OR OTHER FAILURES IN WATER LINE SECTIONS THAT PASS THROUGH THE SEWER TRENCH LONGITUDINALLY, LATERALLY OR DIAGONALLY.



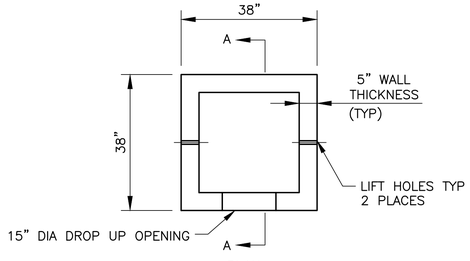
SEWER OR DRAIN CROSSING DETAIL
NOT TO SCALE



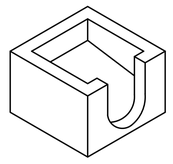
24" PERF POLYETHYLENE PIPE IN STONE TRENCH
NOT TO SCALE



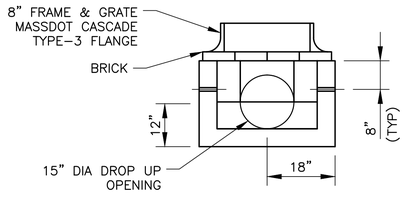
PLAN VIEW



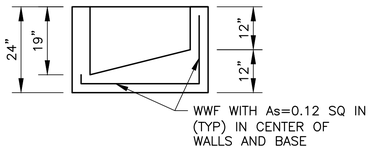
PLAN



ISOMETRIC



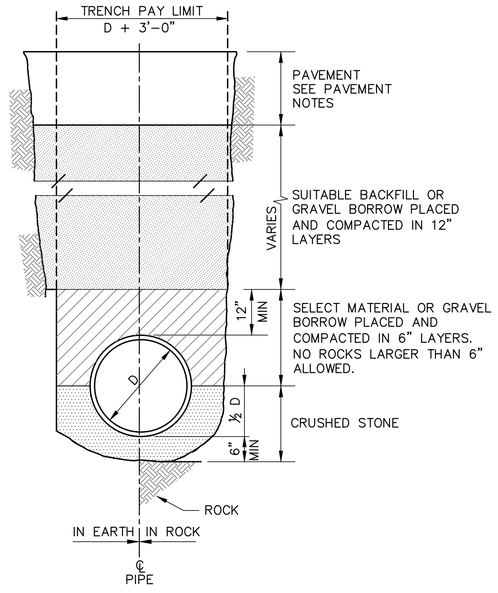
ELEVATION



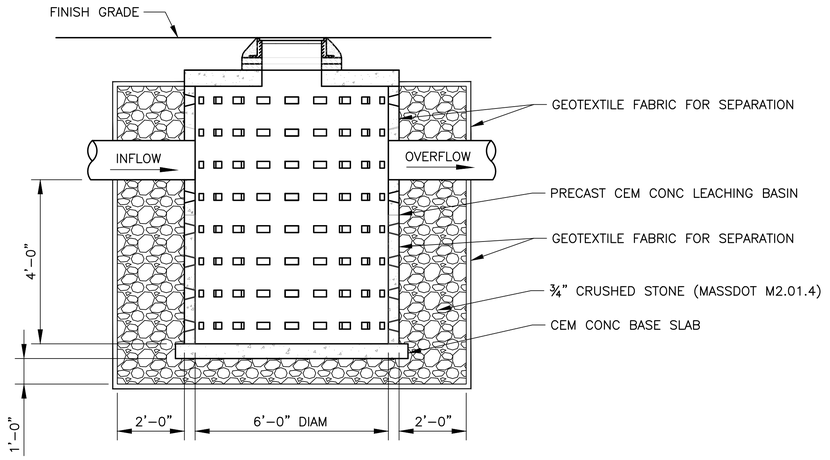
SECTION A–A

NOTES:
1. DESIGNED FOR AASHTO H25–44 LOADING.
2. CONCRETE STRENGTH f'c=4,000 PSI.
3. REINFORCING STEEL: ASTM A185 (wwf) fy=60,000 PSI.
4. CURB INLETS ARE REQUIRED WHEN GUTTER INLETS ARE INSTALLED AGAINST CURBING.
5. FRAME AND GRATE TO PAID FOR UNDER ITEM 222.1 OR ITEM 222.3

SPECIAL GUTTER INLET
NOT TO SCALE



DRAINAGE PIPE TRENCH
NOT TO SCALE



SECTION A–A

NOTES:
1. THE LEACHING BASIN SHALL BE DESIGNED TO WITHSTAND HS–20 LOADING.
2. CRUSHED STONE SHALL NOT BE PLACED WITHIN 3' OF ANY EXISTING GAS LINE.
3. INVERT OF THE OVERFLOW PIPE SHALL BE 3" HIGHER THAN INVERT OF THE INFLOW PIPE.

LEACHING BASIN
NOT TO SCALE

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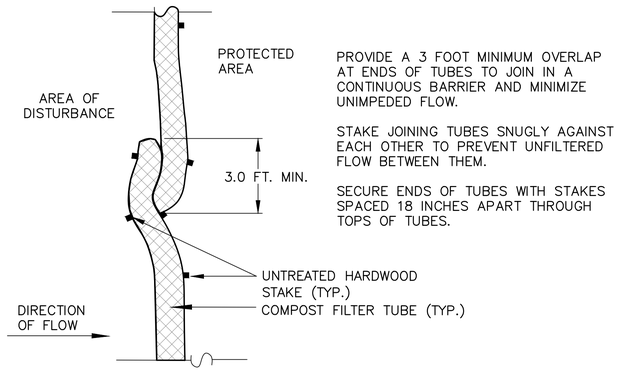
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	17	120
	PROJECT FILE NO. 606264		

CONSTRUCTION DETAILS

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 STORM WATER RUN–OFF.

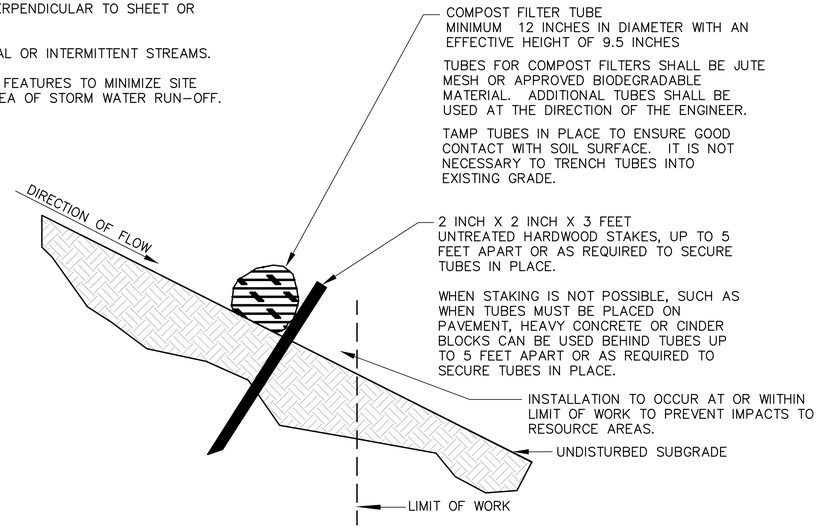


PROVIDE A 3 FOOT MINIMUM OVERLAP AT ENDS OF TUBES TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW.

STAKE JOINING TUBES SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM.

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

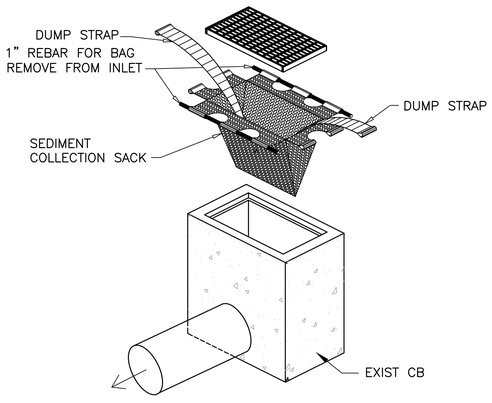
PLAN VIEW – JOIN DETAIL



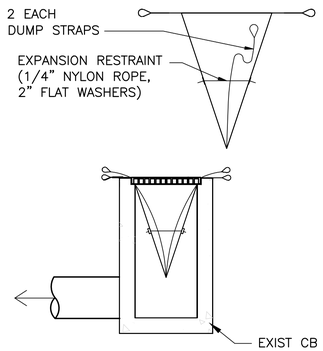
SECTION VIEW

COMPOST FILTER TUBES

NOT TO SCALE



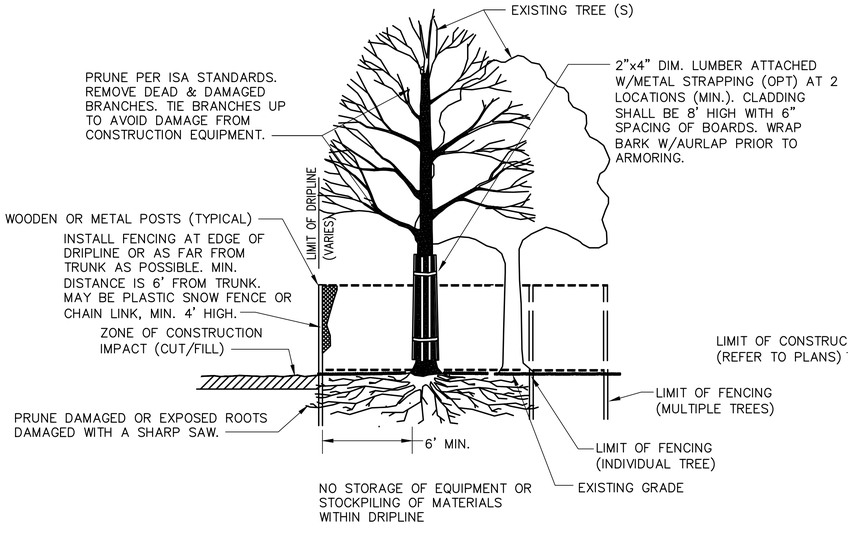
INSTALLATION DETAIL

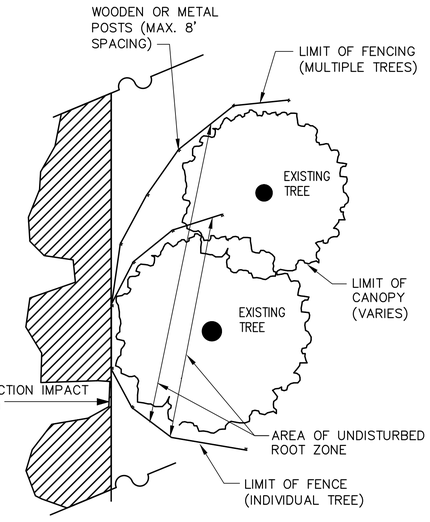


BAG DETAIL

SILT SACK

NOT TO SCALE





PLAN VIEW

TREE PROTECTION DETAIL

NOT TO SCALE

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HIGHWAY GUARD DETAILS

TRANSITION TO NCHRP 350 GUARDRAIL – STA 11+53.3, RT TO STA 11+86.4, RT
GUARDRAIL, TL–2 – STA 11+86.4, RT TO STA 13+37, RT
TRAILING ANCHORAGE – STA 13+37, RT

DRAINAGE DETAILS

SEE DRAINAGE & UTILITY PLANS

TRAFFIC SIGNAL CONDUIT

SEE TRAFFIC SIGNAL PLANS

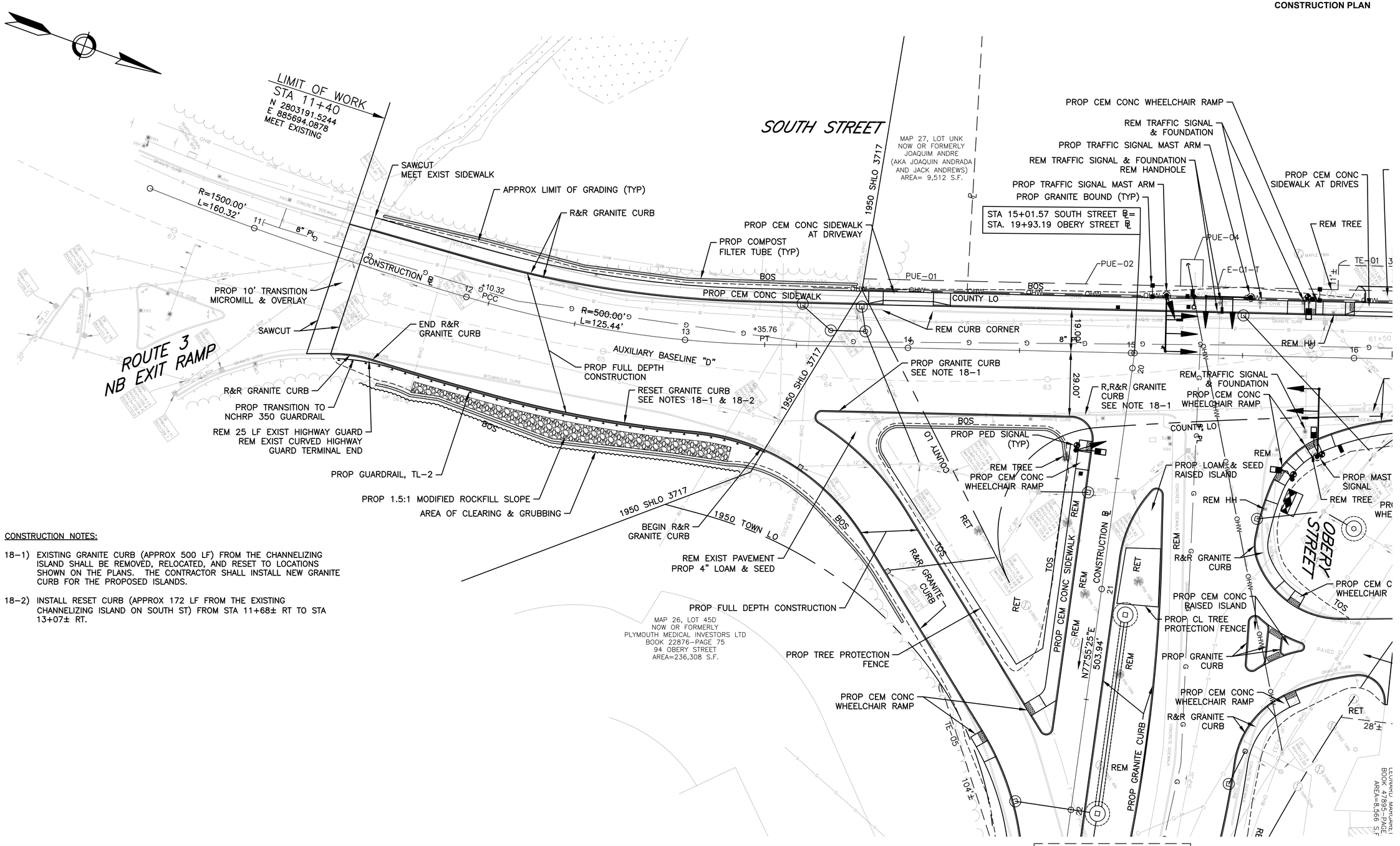
WATER SUPPLY ALTERATIONS

SEE DRAINAGE & UTILITY PLANS

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	18	120
PROJECT FILE NO.	606264		

CONSTRUCTION PLAN



CONSTRUCTION NOTES:

18–1) EXISTING GRANITE CURB (APPROX 500 LF) FROM THE CHANNELIZING ISLAND SHALL BE REMOVED, RELOCATED, AND RESET TO LOCATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL INSTALL NEW GRANITE CURB FOR THE PROPOSED ISLANDS.

18–2) INSTALL RESET CURB (APPROX 172 LF FROM THE EXISTING CHANNELIZING ISLAND ON SOUTH ST) FROM STA 11+68± RT TO STA 13+07± RT.

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

CONTINUED ON SHEET NO. 19

CONTINUED ON SHEET NO. 20

FOR PROFILE: SEE SHEET NO. 27 & 29
FOR DRAINAGE & UTILITIES: SEE SHEET NO. 51

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HIGHWAY GUARD DETAILS

TRAILING ANCHORAGE – STA 19+11, LT
GUARDRAIL, TL–2 – STA 19+11, LT TO STA 20+34.6, LT
TRANSITION TO NCHRP 350 GUARDRAIL – STA 20+34.6, LT TO STA 20+69, LT

DRAINAGE DETAILS

SEE DRAINAGE & UTILITY PLANS

TRAFFIC SIGNAL CONDUIT

SEE TRAFFIC SIGNAL PLANS

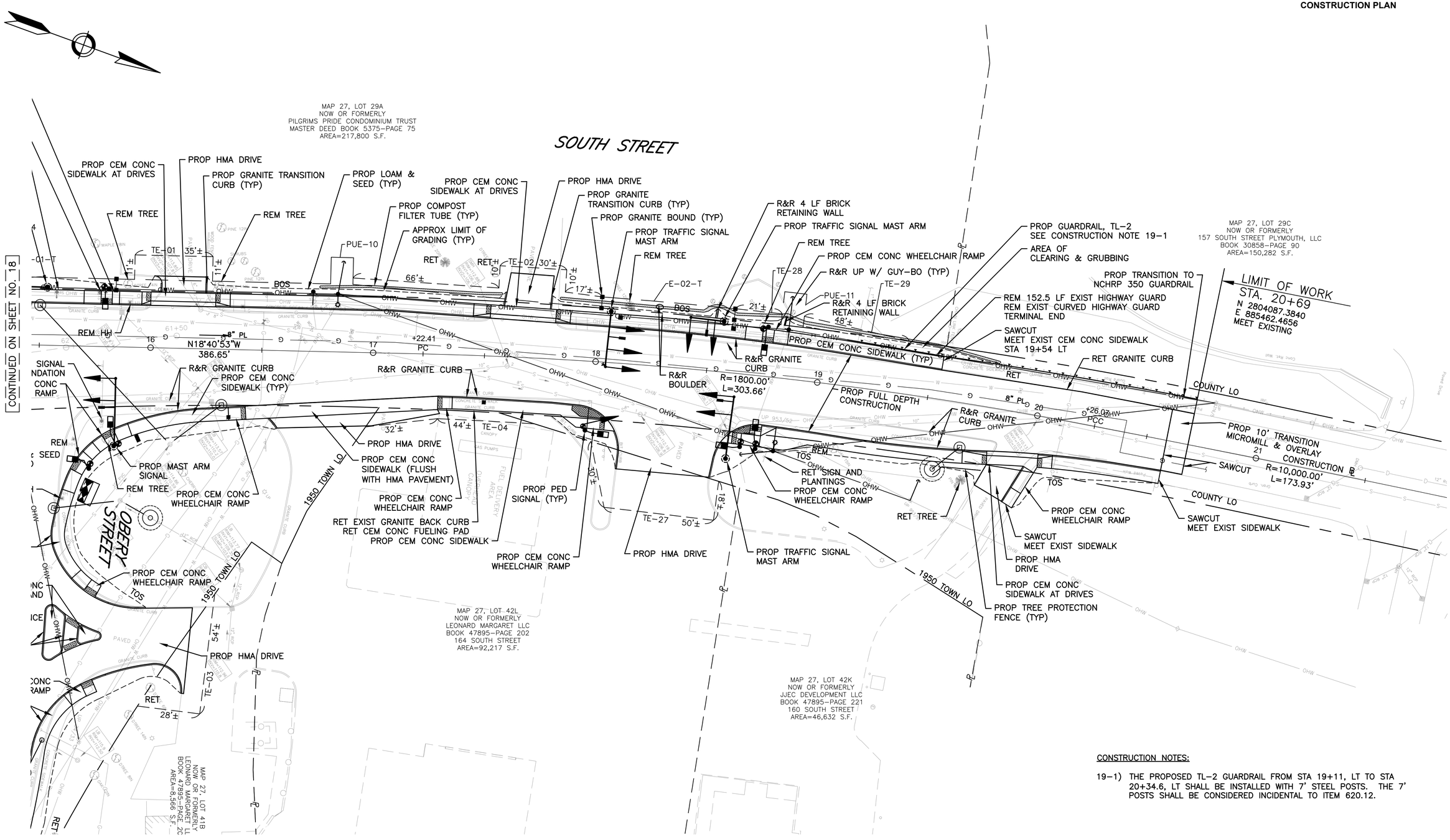
WATER SUPPLY ALTERATIONS

SEE DRAINAGE & UTILITY PLANS

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	19	120
PROJECT FILE NO.	606264		

CONSTRUCTION PLAN



CONSTRUCTION NOTES:

19–1) THE PROPOSED TL–2 GUARDRAIL FROM STA 19+11, LT TO STA 20+34.6, LT SHALL BE INSTALLED WITH 7' STEEL POSTS. THE 7' POSTS SHALL BE CONSIDERED INCIDENTAL TO ITEM 620.12.

FOR PROFILE: SEE SHEET NO. 28
FOR DRAINAGE & UTILITIES: SEE SHEET NO. 52

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HIGHWAY GUARD DETAILS

NONE

DRAINAGE DETAILS

SEE DRAINAGE & UTILITY PLANS

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE DRAINAGE & UTILITY PLANS

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	20	120
PROJECT FILE NO.	606264		

CONSTRUCTION PLAN

CONTINUED ON SHEET NOS. 18 & 19

CONTINUED ON SHEET NO. 21

OBERY STREET

MAP 27, LOT 41B
NOW OR FORMERLY
LEONARD MARGARET LLC
BOOK 47895–PAGE 202
AREA=8,566 S.F.

MAP 27, LOT 41
NOW OR FORMERLY
COMMONWEALTH OF MASSACHUSETTS
DEPT. OF PUBLIC WORKS
BOOK 2673–PAGE 212
81 OBERY STREET
AREA=159,713 S.F.

MAP 26, LOT 45D
NOW OR FORMERLY
PLYMOUTH MEDICAL INVESTORS LTD
BOOK 22876–PAGE 75
94 OBERY STREET
AREA=236,308 S.F.

APPROX LIMIT OF GRADING (TYP)
REM EXIST CEM CONC SIDEWALK
PROP LOAM & SEED (TYP)
PROP GRANITE CURB
PROP FULL DEPTH CONSTRUCTION
PROP LOAM & SEED RAISED ISLAND
PROP CEM CONC SIDEWALK (TYP)
R&R GRANITE CURB (TYP)
CONSTRUCTION ℄
R&R GRANITE CURB
R&S GRANITE CURB
PROP CEM CONC SIDEWALK (TYP)
PROP GRANITE BOUND (TYP)
AREA OF CLEARING & GRUBBING
RET SIGN AND LANDSCAPED AREA
PROP CEM CONC SIDEWALK AT DRIVES
RET LIGHT POLE
RET WOOD GUARDRAIL
REM HMA CURB
PROP GRANITE CURB (TYP)
PROP HMA WALKWAY
RET CHAIN LINK GATE
PROP HMA DRIVE
PROP CEM CONC SIDEWALK AT DRIVES
RESET GRANITE CURB SEE NOTE 20–1
RESET GRANITE CURB SEE NOTE 20–2
PROP COMPOST FILTER TUBE (TYP)
PROP HMA DRIVE
REM EXIST CEM CONC SIDEWALK
PROP 4" LOAM & SEED
END R&R GRANITE CURB
RET MASSDOT MAINTENANCE FACILITY SIGN
PROP HMA DRIVE
RET CLF GATE
PROP CEM CONC SIDEWALK
PROP INDIVIDUAL TREE PROTECTION
PROP GRANITE CURB (TYP)
PROP HMA DRIVE
PROP CEM CONC SIDEWALK AT DRIVES
R&R UP W/ GUY–BO (TYP)
PROP TREE PROTECTION FENCE (TY
PROP GUARDRAIL,
40' ACCESS EASEMENT
1950 TOWN LO
18" PL
BOS
TOS
REM
RET
REM–BO
OHW
R=500.00'
L=381.61'

CONSTRUCTION NOTES:

20–1) INSTALL RESET GRANITE CURB (APPROX 125 LF FROM THE EXISTING CHANNELIZING ISLAND ON OBERY STREET) FROM STA 25+75.4 LT TO STA 27+05.0 LT.

20–2) INSTALL RESET GRANITE CURB (APPROX 104 LF FROM THE EXISTING CHANNELIZING ISLAND ON OBERY STREET) FROM STA 25+07.5 RT TO STA 26+12.8 RT.

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

FOR PROFILE: SEE SHEET NO. 30
FOR DRAINAGE & UTILITIES: SEE SHEET NO. 53

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HIGHWAY GUARD DETAILS

TANGENT END TREATMENT (TL-2) – STA 26+93, RT
GUARDRAIL, TL-2 – STA 27+29, RT TO STA 28+97, RT
TRAILING ANCHORAGE – STA 28+97, RT

DRAINAGE DETAILS

SEE DRAINAGE & UTILITY PLANS

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE DRAINAGE & UTILITY PLANS

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	21	120
PROJECT FILE NO.	606264		

CONSTRUCTION PLAN

[CONTINUED ON SHEET NO. 20]

[CONTINUED ON SHEET NO. 22]

RESET GRANITE CURB SEE NOTE 20-1
SIDEWALK & SEED
REM EXIST CEM CONC SIDEWALK
PROP 4" LOAM & SEED
END R&R GRANITE CURB
RET MASSDOT MAINTENANCE FACILITY SIGN
PROP HMA DRIVE
RET CLF GATE
PROP CEM CONC SIDEWALK AT DRIVES
RET WOOD GUARDRAIL
REM EXIST CEM CONC SIDEWALK
PROP 4" LOAM & SEED
REM CONC CURB
APPROX LIMIT OF GRADING (TYP)
RET EXIST CLF
PROP COMPOST FILTER TUBE (TYP)
PROP LOAM & SEED (TYP)
PROP INDIVIDUAL TREE PROTECTION (TYP)
PROP GRASS PANEL (TYP)
RET EXIST WOOD RAIL FENCE
R&R MAILBOX
PROP HMA DRIVE
PROP CEM CONC SIDEWALK AT DRIVES
RET BOULDER
PROP GRANITE BOUND (TYP)
RET TREE
RET TREES
PROP HMA DRIVE
PROP CEM CONC SIDEWALK AT DRIVES
PROP GRANITE CURB
PROP CEM CONC WHEELCHAIR RAMP
PROP FULL DEPTH CONSTRUCTION
PROP GRASS PANEL (TYP)
PROP CEM CONC BICYCLE RAMP
R&R MAILBOX
PROP GRANITE BOUND (TYP)
PROP CEM CONC SIDEWALK AT DRIVES
PROP HMA DRIVE
RESET PRIVATE SIGN
R&R WOOD RAIL FENCE (216 LF±)
R,R&R GRANITE CURB SEE NOTE 21-1
PROP CEM CONC RAISED SPLITTER ISLAND
R&R PRIVATE SIGN "HORTICULTURE PROGRAM"
REM LANDSCAPE PLANTER
PROP CEM CONC WHEELCHAIR RAMP
PROP CEM CONC RAISED SPLITTER ISLAND
PROP CEM CONC WHEELCHAIR RAMP
PROP GRANITE BOUND (TYP)
1950 TOWN LO
PROP LANDSCAPED CENTER ISLAND
REM HEADWALL
PROP GUARDRAIL, TL-2
PROP TREE PROTECTION FENCE (TYP)
INDIVIDUAL TREE PROTECTION (TYP)
CURB (TYP)
PROP 1.5:1 MODIFIED ROCKFILL SLOPE
AREA OF CLEARING & GRUBBING
R&R STONE BOUND
R&R UTILITY POLE-BO (TYP)
R&R WOOD RAIL FENCE (174 LF±)
PROP GRANITE CURB (TYP)
CONSTRUCTION ℄
PROP CEM CONC SIDEWALK (TYP)
1950 TOWN LO
OBERY STREET
COURTHOUSE DRIVE
1950 TOWN LO
R=500.00'
L=381.61'
N34°11'40"E
295.07'
+78.74 PT
+73.81 PC
+17.76 PT
+73.81 PC
+17.76 PT
BOS
TOS
RET
REM
PC
PT
TE-25
TE-07
TE-08
E-06-T
E-08
D-01
8" PL
16.00'
16.00'
101'±
48'±
34'±
64'±
198'±
49'±
56'±
39'±
42'±
97'±
31'±
22'±
12'±
6'±
10'±
50'±
MAP 27, LOT 43E
NOW OR FORMERLY
NANCY REALTY TRUST
BOOK 34150-PAGE 83
73 OBERY STREET
AREA=15,890 S.F.
MAP 27, LOT 41
NOW OR FORMERLY
COMMONWEALTH OF MASSACHUSETTS
DEPT. OF PUBLIC WORKS
BOOK 2673-PAGE 212
81 OBERY STREET
AREA=159,713 S.F.
MAP 27, LOT 43F
NOW OR FORMERLY
SOUTH SHORE COMMUNITY ACTION
BOOK 41583-PAGE 85
71 OBERY STREET
AREA=122,827 S.F.
MAP 26, LOT 45C
NOW OR FORMERLY
84 OBERY LLC
BOOK 47371-PAGE 144
AREA=206,686 S.F.
MAP 26, LOT 44-5
NOW OR FORMERLY
INHABITANTS OF
COUNTY OF PLYMOUTH
52 OBERY STREET
LC CERT. NO. 225
AREA=4,775,766 S.F.
TRENCH DRAIN RIM: 114.5 INV. OUT: 112.5
WOODEN GUARD RAIL (SEE DETAIL SHEET)
1000 GALLON PUMP CHAMBER RIM: 123.5
STAIRS
GAS TRAP
RET. WALL (7'H) 6" HDPE ROOF DRAIN
TRENCH DRAIN RECHARGE SYSTEM #7
2-6' DIA x 6' DEEP LEACHING PITS
W/1' CRUSHED STONE UNDER
EFFECTIVE AREA: 12' W x 7' D x 18' L
RIM:116.5
INV IN: 110.6 BOTTOM OF STONE:103.6
2000 GAL. WATER QUALITY TANK #2
RIM: 114.1 & 114.7
INV. IN: 110.9
INV. OUT: 110.7
CB #1 RIM:117.5 INV. OUT:113.29
CB #2 RIM:116.12 INV OUT:113.3
CB #3 RIM:116.5 INV. OUT:113.39 (IN) 113.29 (OUT)
DMH #1 RIM: 119.65 INV. OUT: 110.15
POST/RAIL WOOD FENCE
GUTTER DRAIN
BSW RIM: 61.7
R=114.7
R=114.1
R=114.6
22' R
20'
40 20 0 20 40 FEET
SCALE: 1" = 20'

CONSTRUCTION NOTES:

21-1) EXISTING GRANITE CURB (APPROX 143 LF) FROM OBERY ST AND COURTHOUSE DR RT SHALL BE REMOVED, RELOCATED, AND RESET TO A.C. CARANCI WAY.

FOR PROFILE: SEE SHEET NO. 31
FOR DRAINAGE & UTILITIES: SEE SHEET NO. 54

IT OF WORK
. 2+07
304065.0004
36818.9024
T EXISTING

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HIGHWAY GUARD DETAILS

NONE

DRAINAGE DETAILS

SEE DRAINAGE & UTILITY PLANS

TRAFFIC SIGNAL CONDUIT

NONE

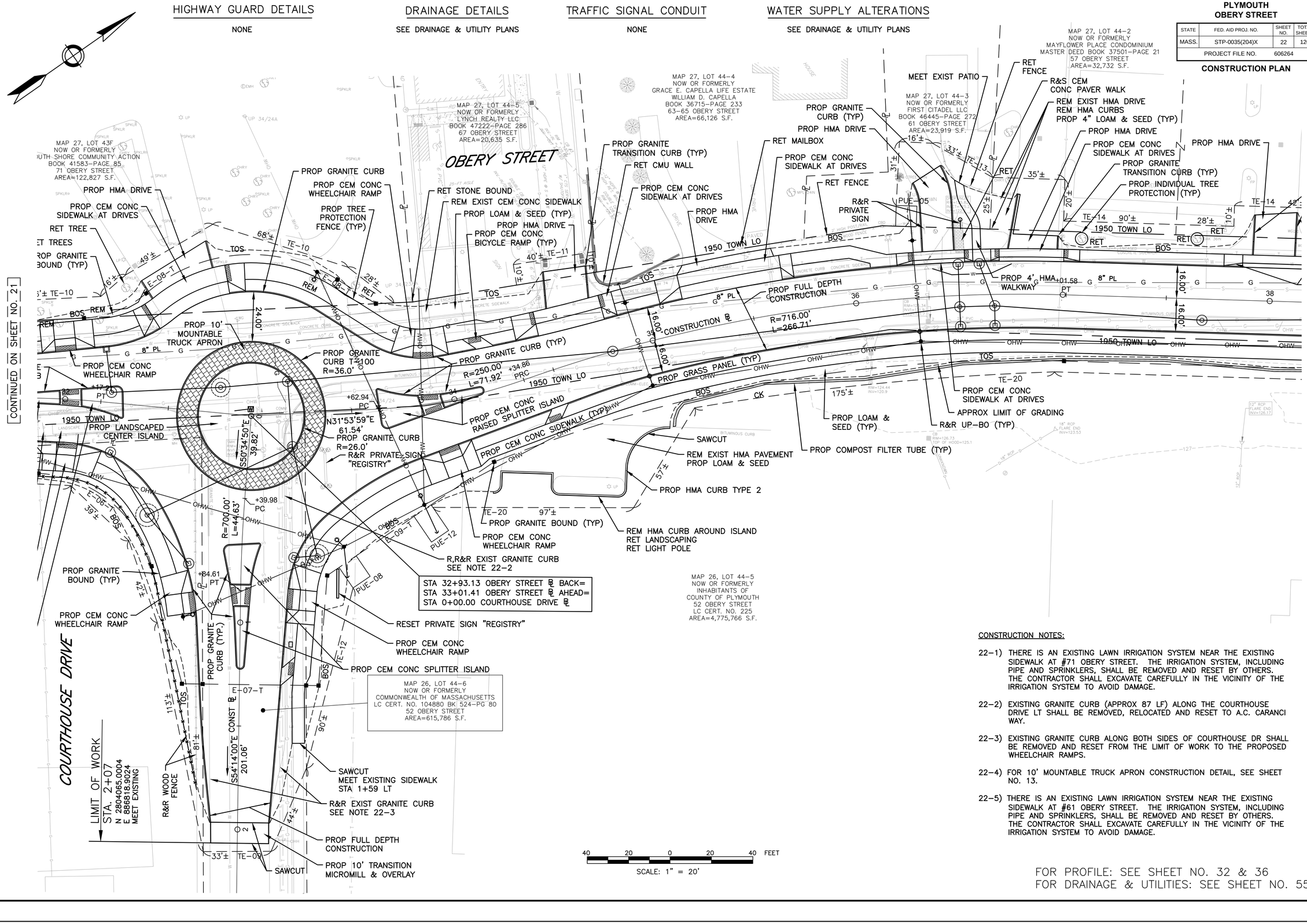
WATER SUPPLY ALTERATIONS

SEE DRAINAGE & UTILITY PLANS

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	22	120
PROJECT FILE NO.	606264		

CONSTRUCTION PLAN



CONTINUED ON SHEET NO. 21

CONTINUED ON SHEET NO. 23

CONSTRUCTION NOTES:

22-1) THERE IS AN EXISTING LAWN IRRIGATION SYSTEM NEAR THE EXISTING SIDEWALK AT #71 OBERY STREET. THE IRRIGATION SYSTEM, INCLUDING PIPE AND SPRINKLERS, SHALL BE REMOVED AND RESET BY OTHERS. THE CONTRACTOR SHALL EXCAVATE CAREFULLY IN THE VICINITY OF THE IRRIGATION SYSTEM TO AVOID DAMAGE.

22-2) EXISTING GRANITE CURB (APPROX 87 LF) ALONG THE COURTHOUSE DRIVE LT SHALL BE REMOVED, RELOCATED AND RESET TO A.C. CARANCI WAY.

22-3) EXISTING GRANITE CURB ALONG BOTH SIDES OF COURTHOUSE DR SHALL BE REMOVED AND RESET FROM THE LIMIT OF WORK TO THE PROPOSED WHEELCHAIR RAMPS.

22-4) FOR 10' MOUNTABLE TRUCK APRON CONSTRUCTION DETAIL, SEE SHEET NO. 13.

22-5) THERE IS AN EXISTING LAWN IRRIGATION SYSTEM NEAR THE EXISTING SIDEWALK AT #61 OBERY STREET. THE IRRIGATION SYSTEM, INCLUDING PIPE AND SPRINKLERS, SHALL BE REMOVED AND RESET BY OTHERS. THE CONTRACTOR SHALL EXCAVATE CAREFULLY IN THE VICINITY OF THE IRRIGATION SYSTEM TO AVOID DAMAGE.

FOR PROFILE: SEE SHEET NO. 32 & 36
FOR DRAINAGE & UTILITIES: SEE SHEET NO. 55

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HIGHWAY GUARD DETAILS

NONE

DRAINAGE DETAILS

SEE DRAINAGE & UTILITY PLANS

TRAFFIC SIGNAL CONDUIT

NONE

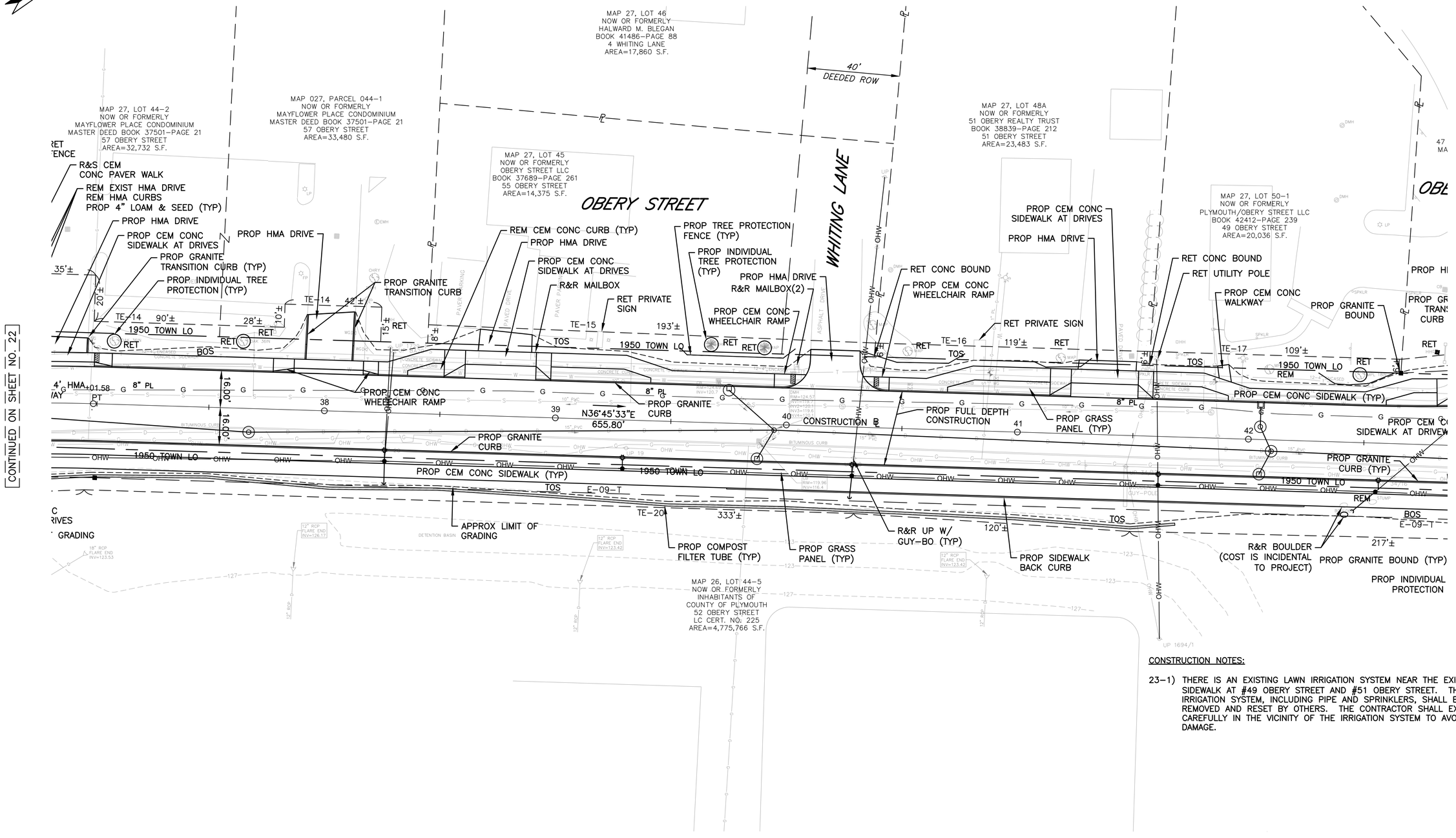
WATER SUPPLY ALTERATIONS

SEE DRAINAGE & UTILITY PLANS

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	23	120
PROJECT FILE NO.	606264		

CONSTRUCTION PLAN



40 20 0 20 40 FEET

SCALE: 1" = 20'

CONSTRUCTION NOTES:

23-1) THERE IS AN EXISTING LAWN IRRIGATION SYSTEM NEAR THE EXISTING SIDEWALK AT #49 OBERY STREET AND #51 OBERY STREET. THE IRRIGATION SYSTEM, INCLUDING PIPE AND SPRINKLERS, SHALL BE REMOVED AND RESET BY OTHERS. THE CONTRACTOR SHALL EXCAVATE CAREFULLY IN THE VICINITY OF THE IRRIGATION SYSTEM TO AVOID DAMAGE.

FOR PROFILE: SEE SHEET NO. 33
FOR DRAINAGE & UTILITIES: SEE SHEET NO. 56

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HIGHWAY GUARD DETAILS

NONE

DRAINAGE DETAILS

SEE DRAINAGE & UTILITY PLANS

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

SEE DRAINAGE & UTILITY PLANS

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	24	120
PROJECT FILE NO.	606264		

CONSTRUCTION PLAN

CONSTRUCTION NOTES:

24–1) THERE IS AN EXISTING LAWN IRRIGATION SYSTEM NEAR THE EXISTING SIDEWALK AT #47 OBERY STREET. THE IRRIGATION SYSTEM, INCLUDING PIPE AND SPRINKLERS, SHALL BE REMOVED AND RESET BY OTHERS. THE CONTRACTOR SHALL EXCAVATE CAREFULLY IN THE VICINITY OF THE IRRIGATION SYSTEM TO AVOID DAMAGE.

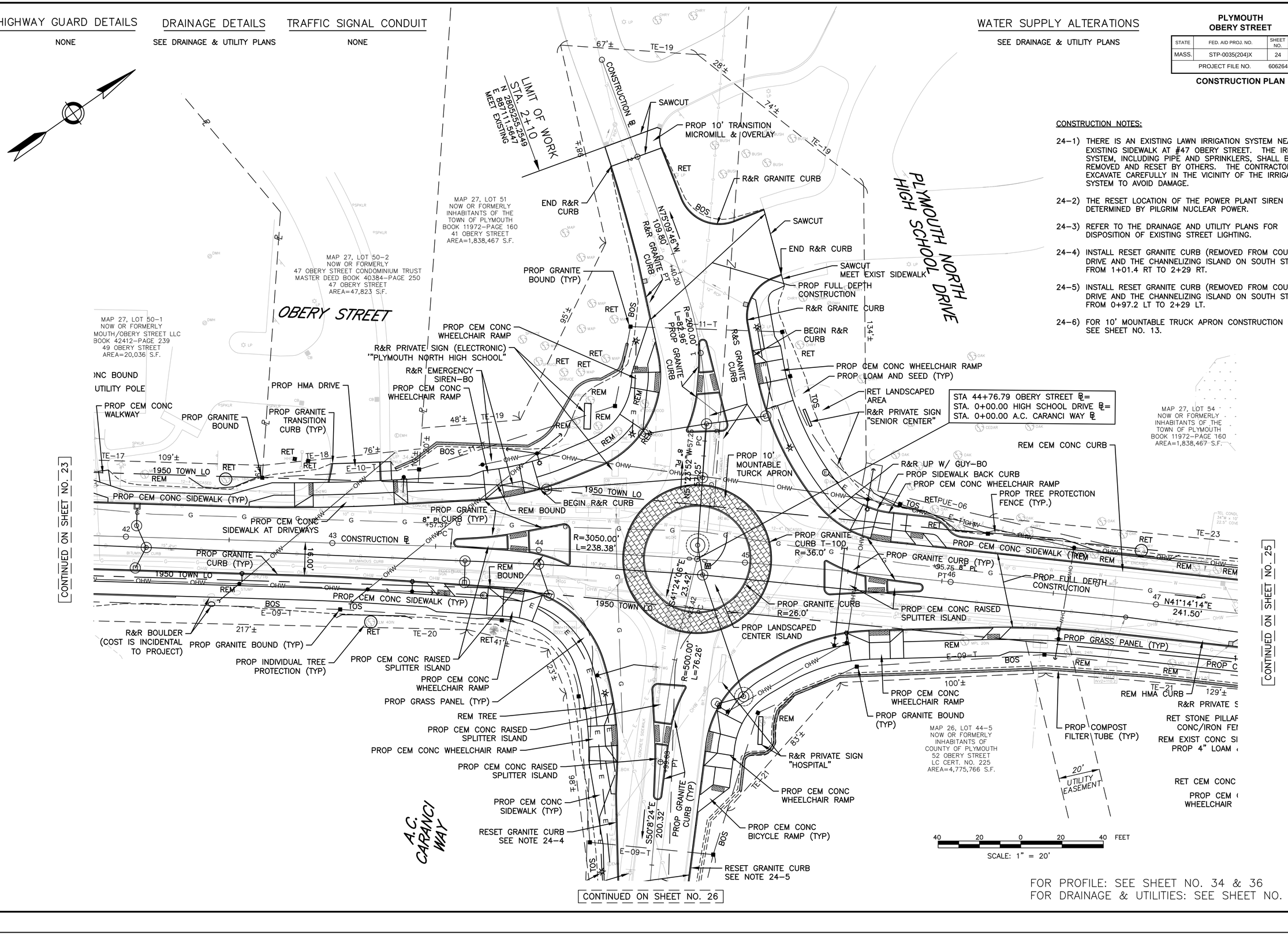
24–2) THE RESET LOCATION OF THE POWER PLANT SIREN SHALL BE DETERMINED BY PILGRIM NUCLEAR POWER.

24–3) REFER TO THE DRAINAGE AND UTILITY PLANS FOR DISPOSITION OF EXISTING STREET LIGHTING.

24–4) INSTALL RESET GRANITE CURB (REMOVED FROM COURTHOUSE DRIVE AND THE CHANNELIZING ISLAND ON SOUTH STREET) FROM 1+01.4 RT TO 2+29 RT.

24–5) INSTALL RESET GRANITE CURB (REMOVED FROM COURTHOUSE DRIVE AND THE CHANNELIZING ISLAND ON SOUTH STREET) FROM 0+97.2 LT TO 2+29 LT.

24–6) FOR 10' MOUNTABLE TRUCK APRON CONSTRUCTION DETAIL, SEE SHEET NO. 13.



CONTINUED ON SHEET NO. 23

CONTINUED ON SHEET NO. 25

CONTINUED ON SHEET NO. 26

FOR PROFILE: SEE SHEET NO. 34 & 36
FOR DRAINAGE & UTILITIES: SEE SHEET NO. 57

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HIGHWAY GUARD DETAILS

NONE

DRAINAGE DETAILS

SEE DRAINAGE & UTILITY PLANS

TRAFFIC SIGNAL CONDUIT

NONE

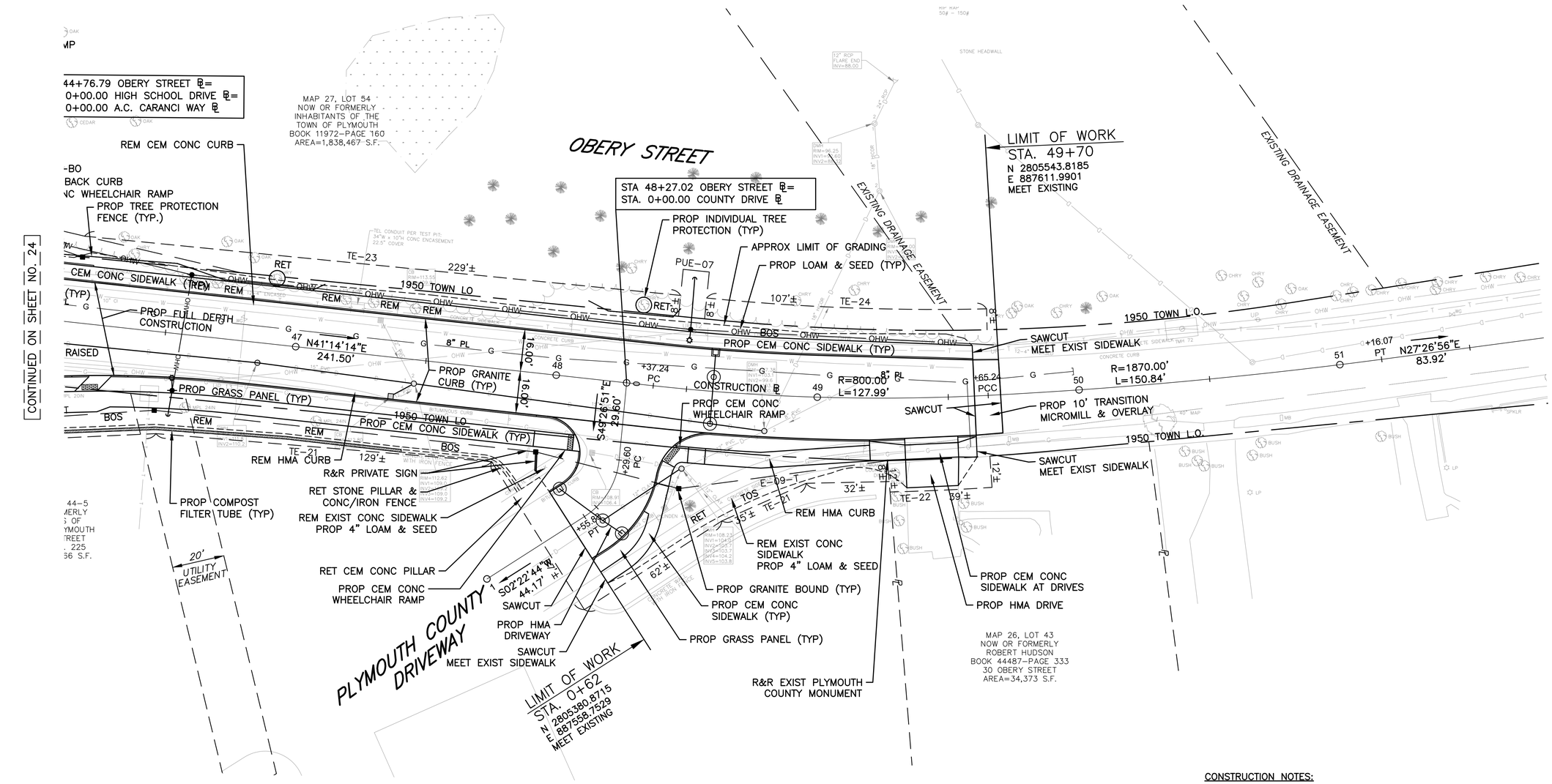
WATER SUPPLY ALTERATIONS

SEE DRAINAGE & UTILITY PLANS

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	25	120
PROJECT FILE NO.	606264		

CONSTRUCTION PLAN



40 20 0 20 40 FEET

SCALE: 1" = 20'

CONSTRUCTION NOTES:

25-1) FROM STA 48+00 LT TO STA 49+60 LT, EXISTING GROWTHS OF BITTERSWEET WITHIN 10' OF THE LIMIT OF GRADING SHALL BE REMOVED.

FOR PROFILE: SEE SHEET NO. 35
FOR DRAINAGE & UTILITIES: SEE SHEET NO. 58

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HIGHWAY GUARD DETAILS

NONE

DRAINAGE DETAILS

SEE DRAINAGE & UTILITY PLANS

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

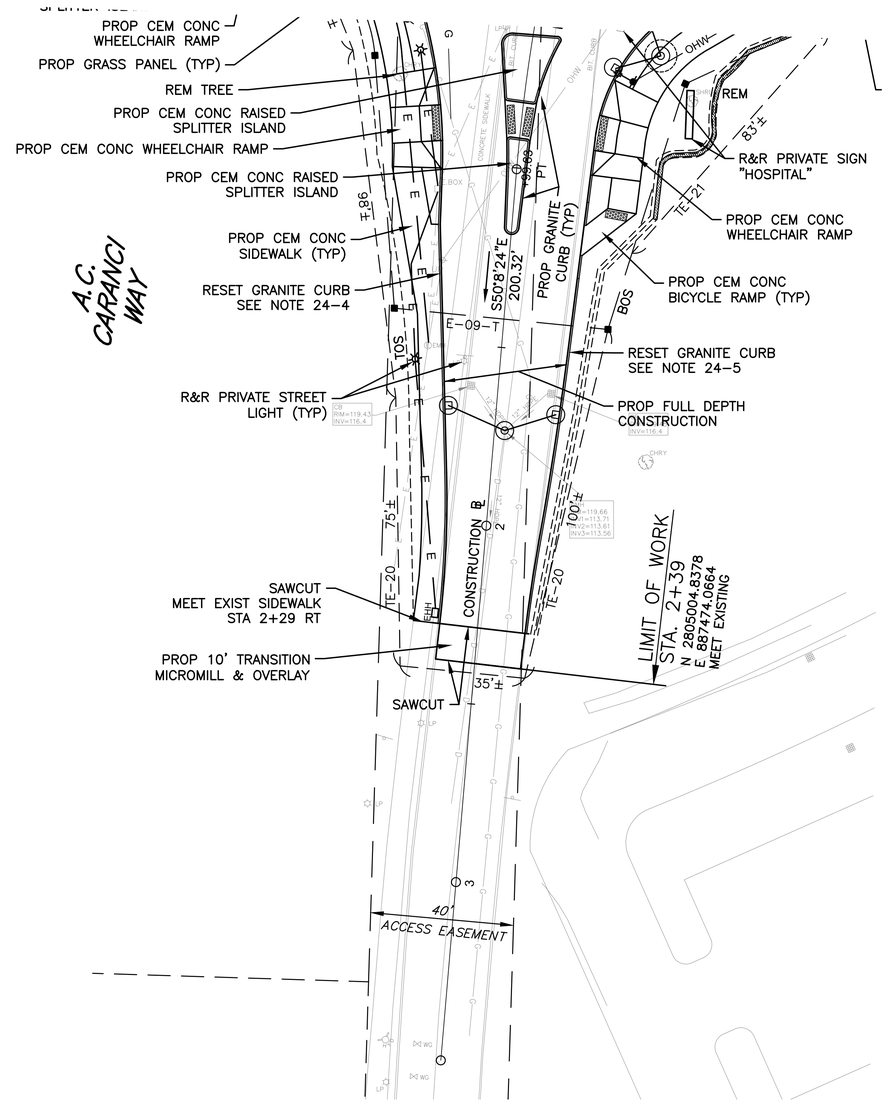
SEE DRAINAGE & UTILITY PLANS

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	26	120
PROJECT FILE NO.	606264		

CONSTRUCTION PLAN

CONTINUED ON SHEET NO. 24



40 20 0 20 40 FEET

SCALE: 1" = 20'

FOR PROFILE: SEE SHEET NO. 36
FOR DRAINAGE & UTILITIES: SEE SHEET NO. 59

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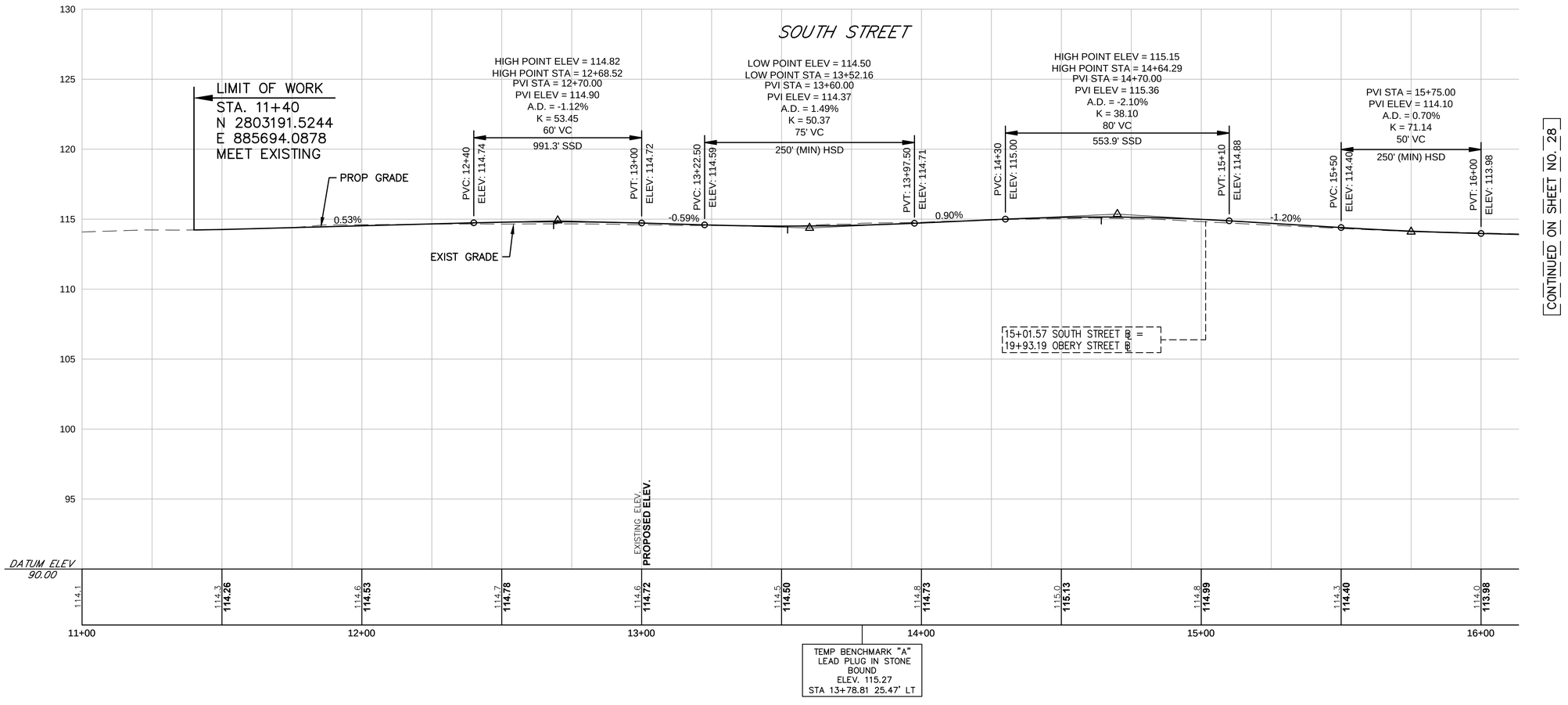
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	27	120
PROJECT FILE NO.	606264		

PROFILE
SOUTH STREET



FOR CONSTRUCTION PLAN SEE SHEET NO. 18

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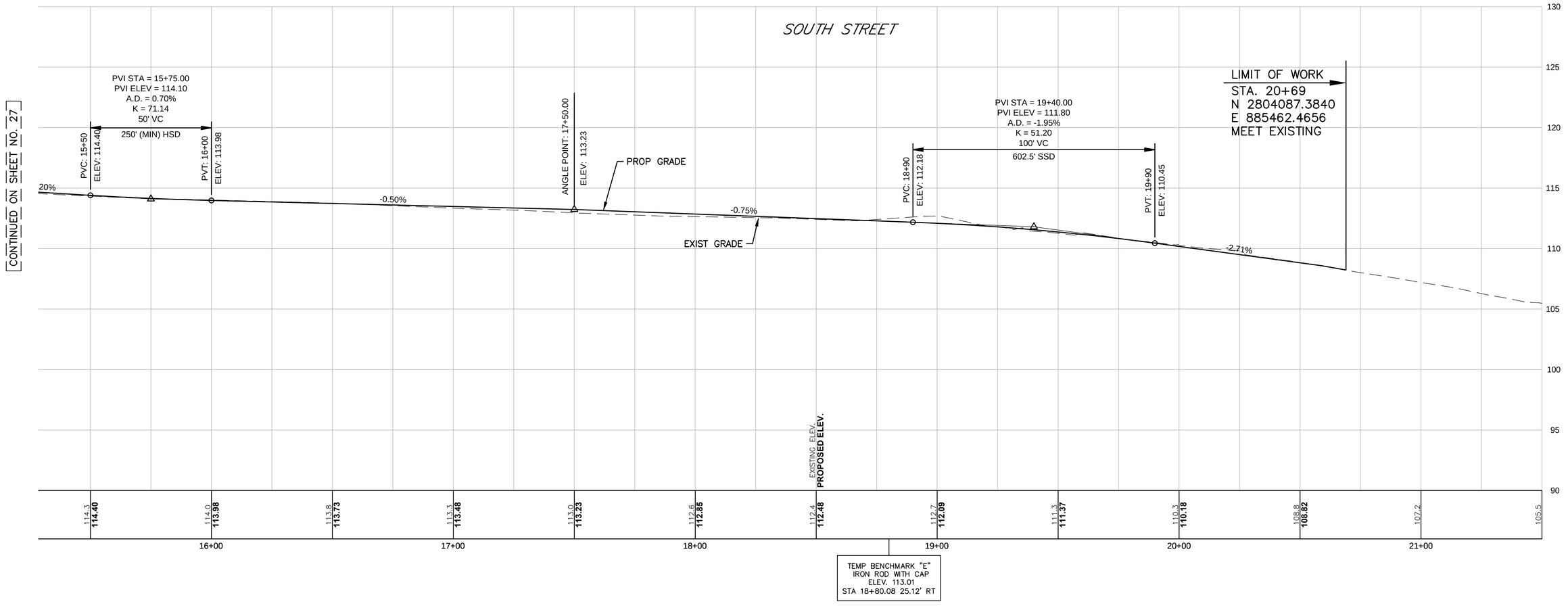
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	28	120
PROJECT FILE NO.	606264		

PROFILE
SOUTH STREET



FOR CONSTRUCTION PLAN SEE SHEET NO. 19

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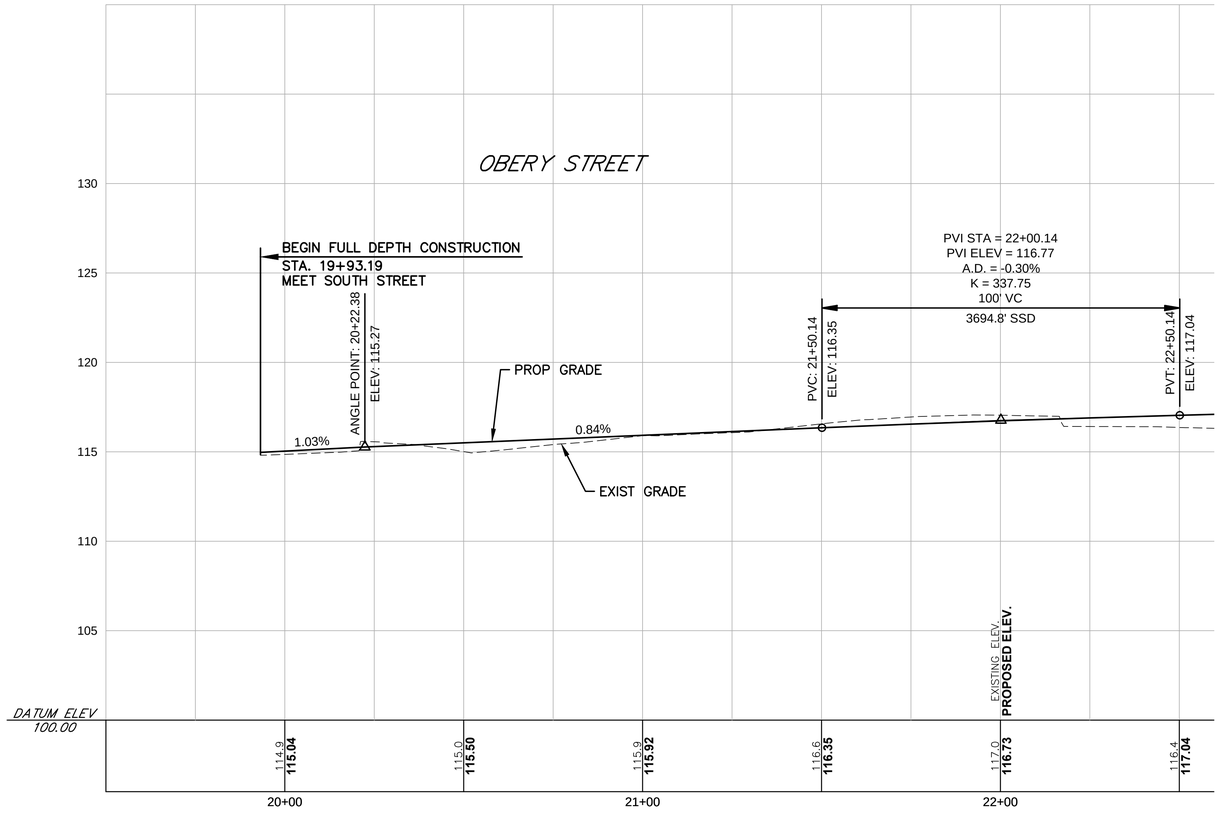
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	29	120
PROJECT FILE NO.	606264		

PROFILE
OBERY STREET



HORIZONTAL
0 20 50 100
0 4 10 20
VERTICAL
SCALE IN FEET

FOR CONSTRUCTION PLAN SEE SHEET NO. 18

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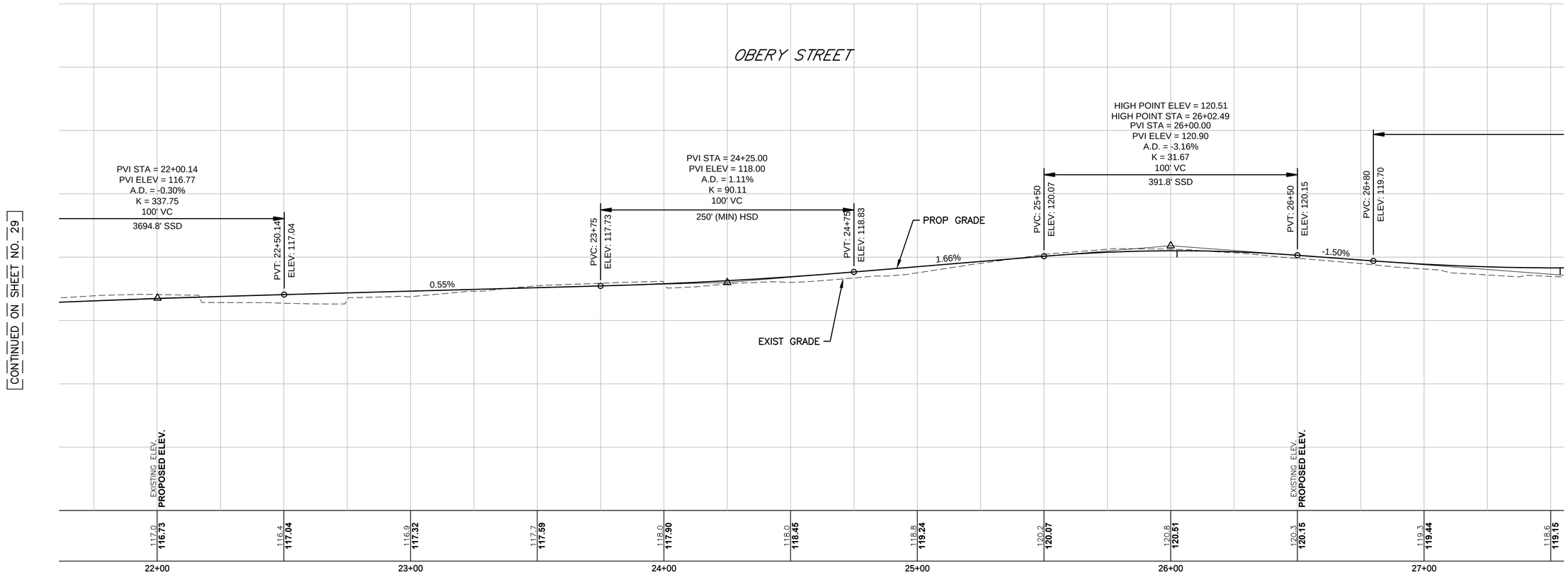
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	30	120
PROJECT FILE NO.	606264		

PROFILE
OBERY STREET



HORIZONTAL
0 20 50 100
0 4 10 20
VERTICAL
SCALE IN FEET

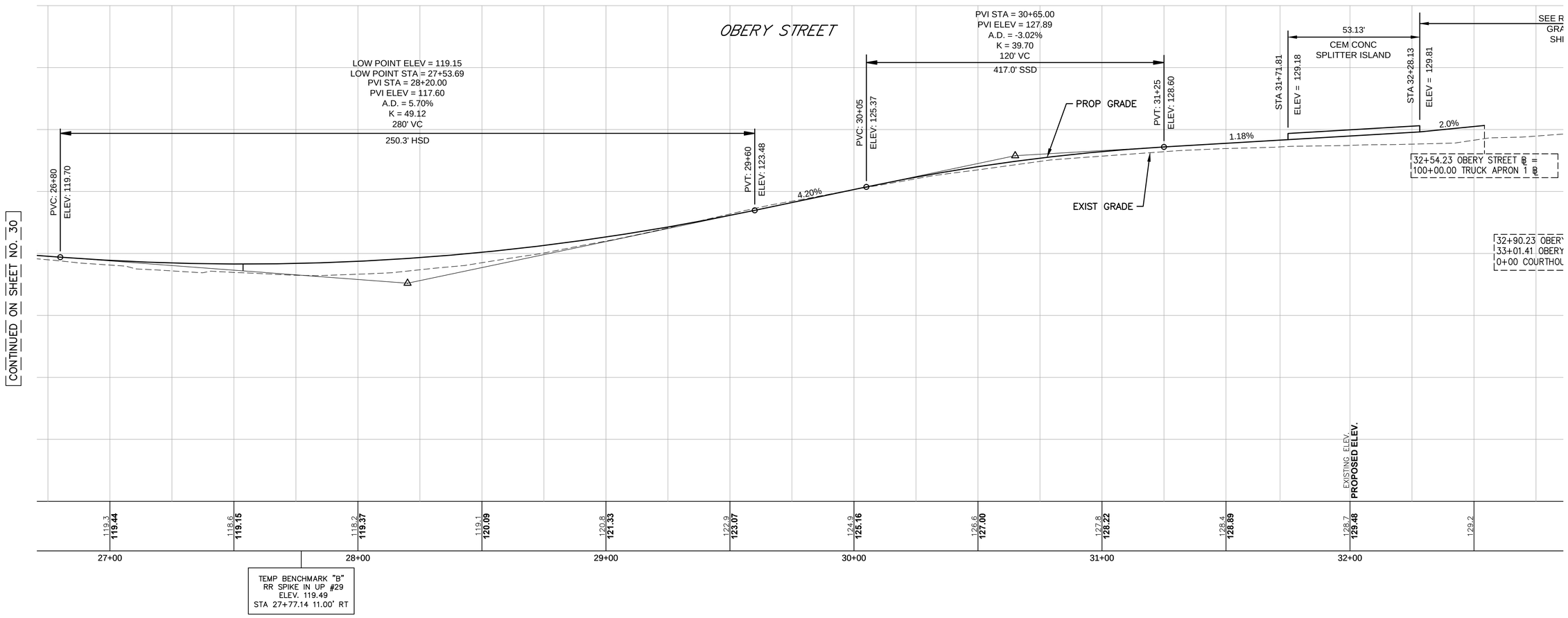
FOR CONSTRUCTION PLAN SEE SHEET NO. 20

Jacobs - J:\2007 Projects\070013.209\CAD\Civil\Final August 2018\27-36_Profiles.dwg August 24, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	31	120
PROJECT FILE NO.	606264		

PROFILE
OBERY STREET



HORIZONTAL
0 20 50 100
0 4 10 20
VERTICAL
SCALE IN FEET

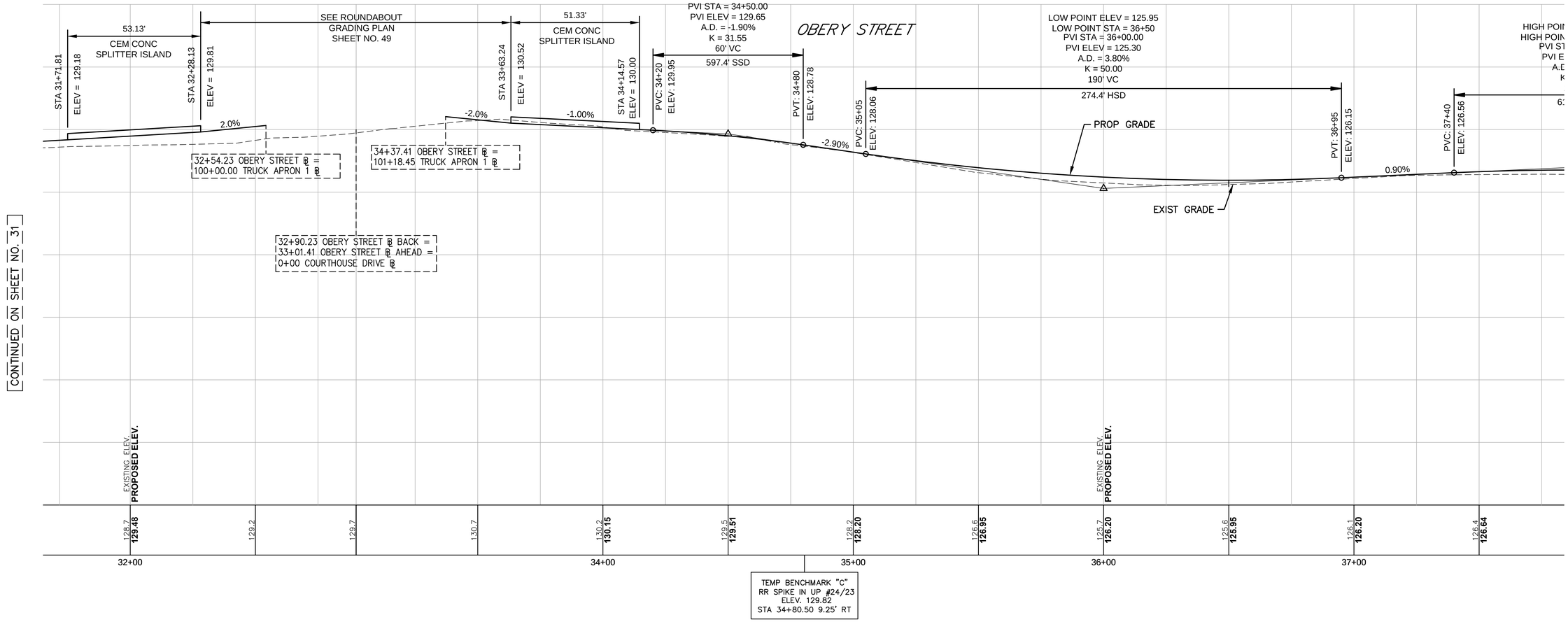
FOR CONSTRUCTION PLAN SEE SHEET NO. 21

Jacobs - J:\2007 Projects\070013.209\CAD\Civil\Final August 2018\27-36 Profiles.dwg August 24, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	32	120
PROJECT FILE NO.	606264		

PROFILE
OBERY STREET



CONTINUED ON SHEET NO. 31

CONTINUED ON SHEET NO. 33

HORIZONTAL
0 20 50 100
0 4 10 20
VERTICAL
SCALE IN FEET

FOR CONSTRUCTION PLAN SEE SHEET NO. 22

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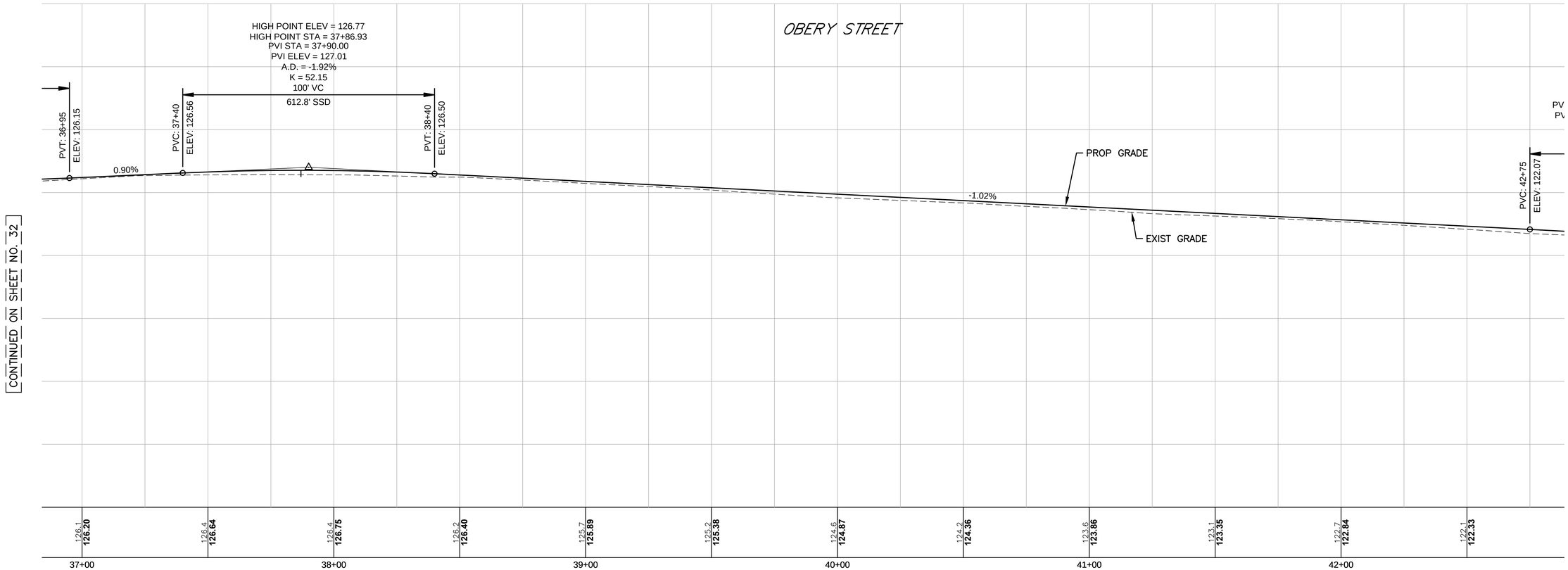
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	33	120
PROJECT FILE NO.	606264		

PROFILE
OBERY STREET



CONTINUED ON SHEET NO. 32

CONTINUED ON SHEET NO. 34

HORIZONTAL
0 20 50 100
0 4 10 20
VERTICAL
SCALE IN FEET

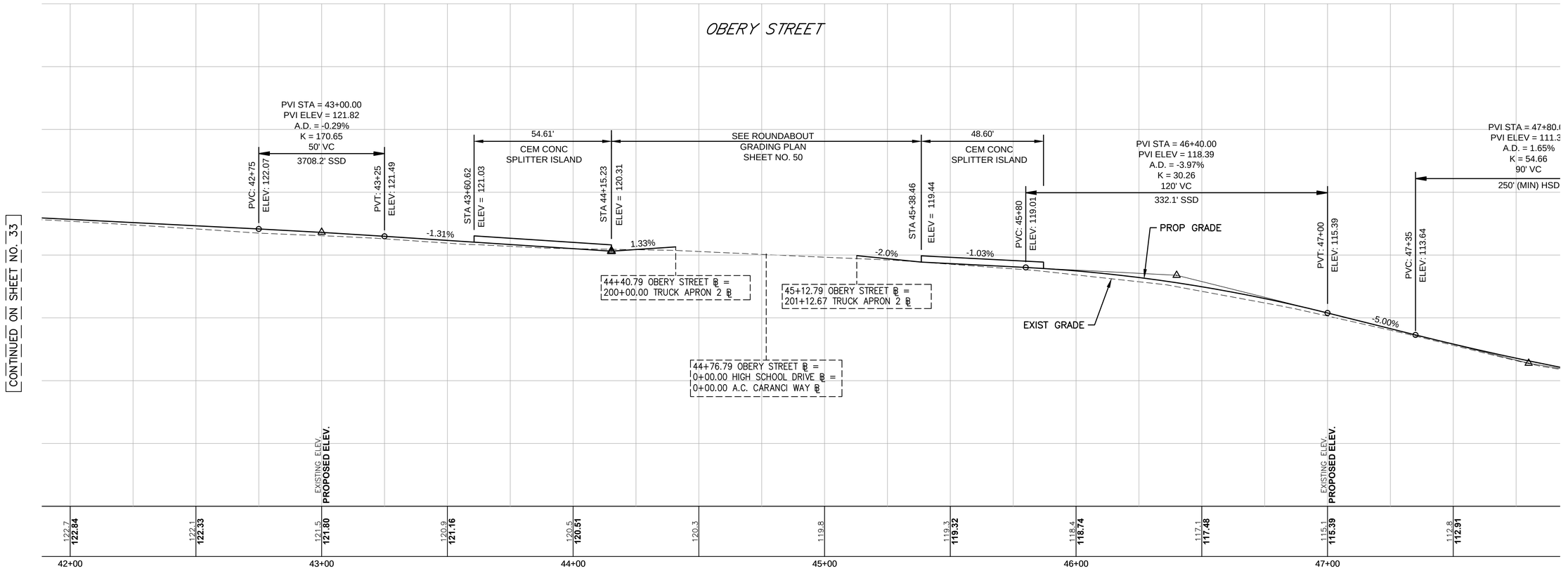
FOR CONSTRUCTION PLAN SEE SHEET NO. 23

Jacobs - J:\2007 Projects\070013 209\CAD\Civil\Final August 2018\27-36 Profiles.dwg, August 24, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	34	120
PROJECT FILE NO.	606264		

PROFILE
OBERY STREET



HORIZONTAL
0 20 50 100
0 4 10 20
VERTICAL
SCALE IN FEET

FOR CONSTRUCTION PLAN SEE SHEET NO. 24

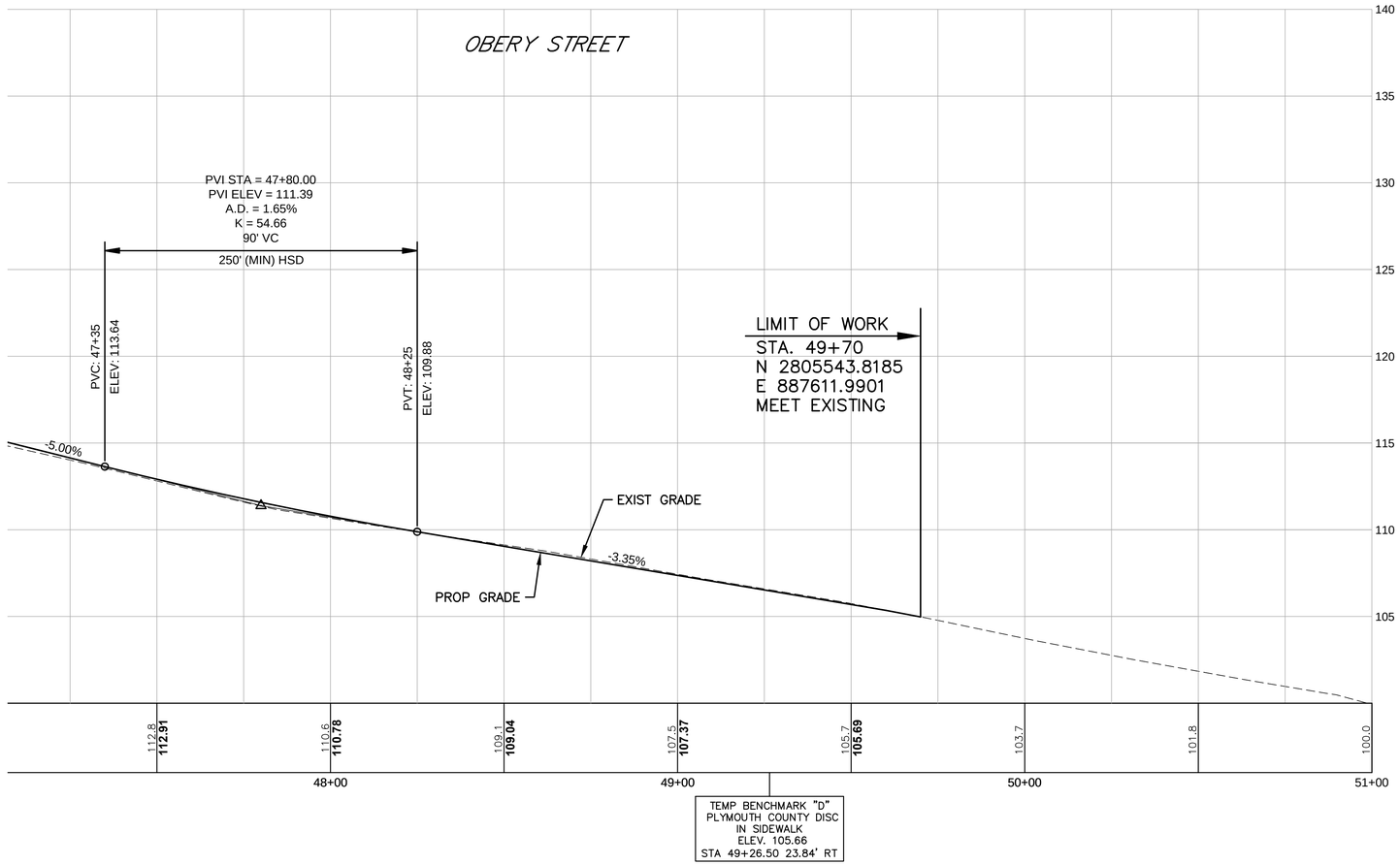
Jacobs - J:\2007 Projects\070013.209\CAD\Civil\Final August 2018\27-36_Profiles.dwg August 24, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	35	120
PROJECT FILE NO.	606264		

PROFILE
OBERY STREET

CONTINUED ON SHEET NO. 34



HORIZONTAL
0 20 50 100
0 4 10 20
VERTICAL
SCALE IN FEET

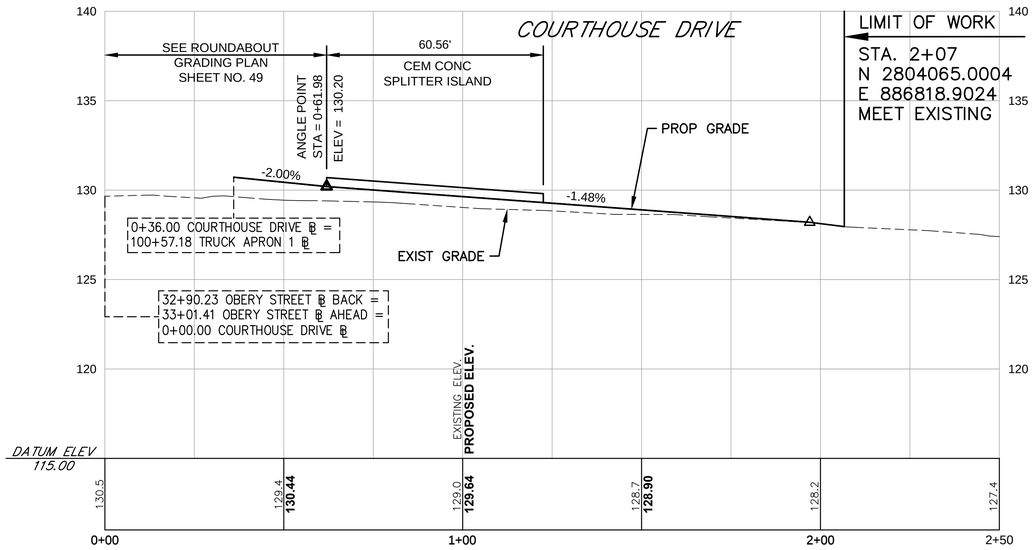
FOR CONSTRUCTION PLAN SEE SHEET NO. 25

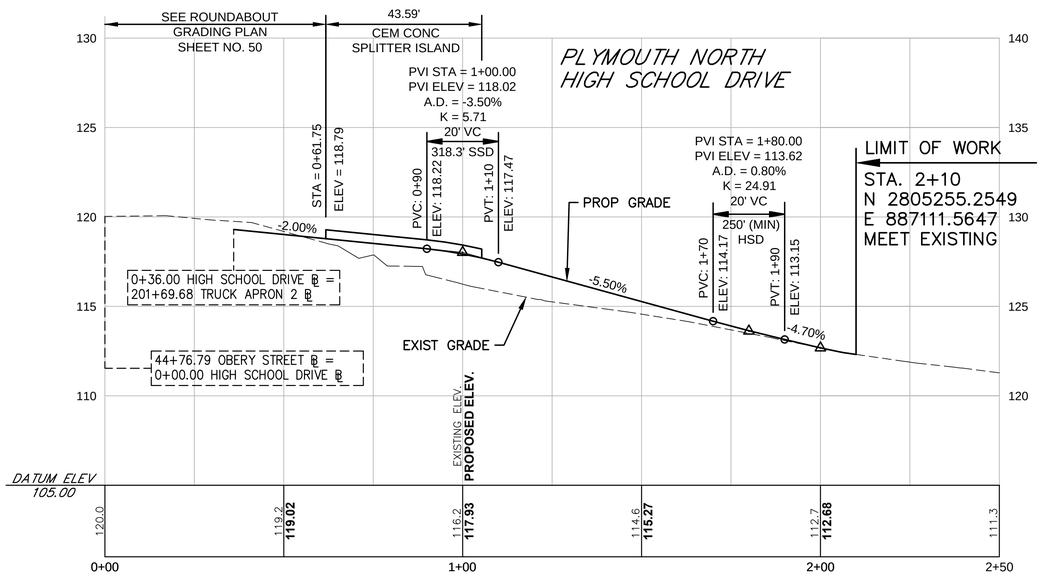
Jacobs - J:\2007 Projects\070013.209\CADCivil\Final August 2018\27-36 Profiles.dwg August 24, 2018

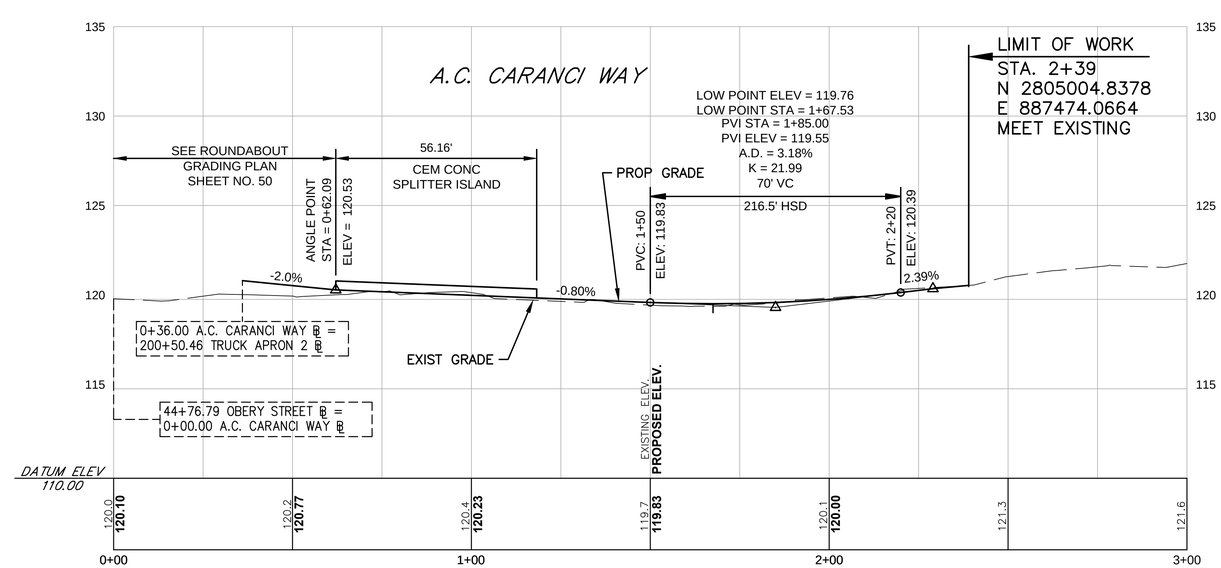
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	36	120
PROJECT FILE NO.	606264		

PROFILE
COURTHOUSE DRIVE
A.C. CARANCI WAY
PLYMOUTH NORTH HIGH SCHOOL DRIVE







HORIZONTAL
0 20 50 100
0 4 10 20
VERTICAL
SCALE IN FEET

FOR CONSTRUCTION PLAN SEE SHEET NO. 22, 24, & 26

Jacobs - J:\2007 Projects\070013.209\CAD\Civil\Final August 2018\27-36_Profiles.dwg, August 24, 2018

PLYMOUTH
OBERY STREET

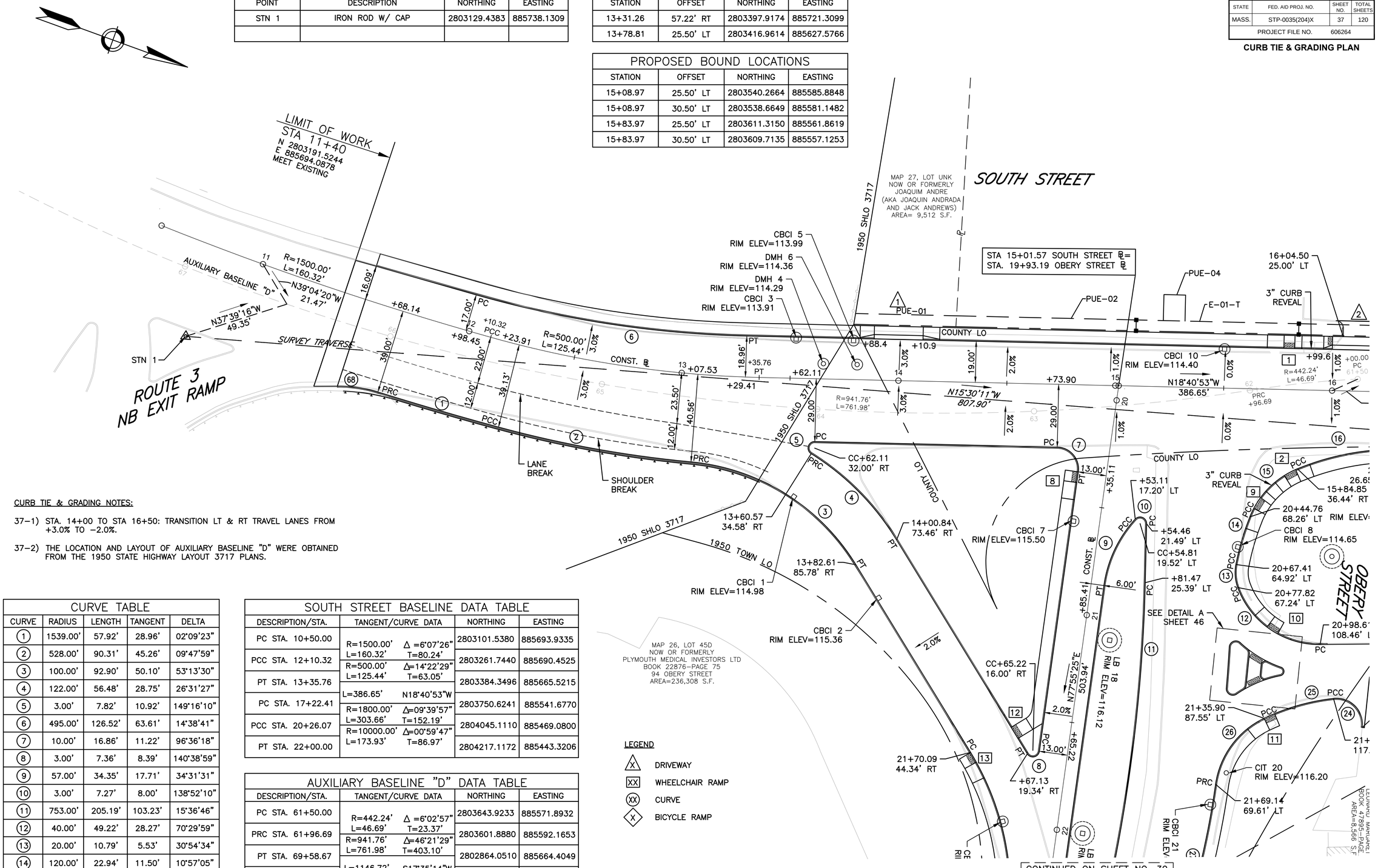
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	37	120
PROJECT FILE NO.	606264		

CURB TIE & GRADING PLAN

SURVEY TRAVERSE DATA			
POINT	DESCRIPTION	NORTHING	EASTING
STN 1	IRON ROD W/ CAP	2803129.4383	885738.1309

EXISTING BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
13+31.26	57.22' RT	2803397.9174	885721.3099
13+78.81	25.50' LT	2803416.9614	885627.5766

PROPOSED BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
15+08.97	25.50' LT	2803540.2664	885585.8848
15+08.97	30.50' LT	2803538.6649	885581.1482
15+83.97	25.50' LT	2803611.3150	885561.8619
15+83.97	30.50' LT	2803609.7135	885557.1253



CURB TIE & GRADING NOTES:

37-1) STA. 14+00 TO STA 16+50: TRANSITION LT & RT TRAVEL LANES FROM +3.0% TO -2.0%.

37-2) THE LOCATION AND LAYOUT OF AUXILIARY BASELINE "D" WERE OBTAINED FROM THE 1950 STATE HIGHWAY LAYOUT 3717 PLANS.

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
(1)	1539.00'	57.92'	28.96'	02°09'23"
(2)	528.00'	90.31'	45.26'	09°47'59"
(3)	100.00'	92.90'	50.10'	53°13'30"
(4)	122.00'	56.48'	28.75'	26°31'27"
(5)	3.00'	7.82'	10.92'	149°16'10"
(6)	495.00'	126.52'	63.61'	14°38'41"
(7)	10.00'	16.86'	11.22'	96°36'18"
(8)	3.00'	7.36'	8.39'	140°38'59"
(9)	57.00'	34.35'	17.71'	34°31'31"
(10)	3.00'	7.27'	8.00'	138°52'10"
(11)	753.00'	205.19'	103.23'	15°36'46"
(12)	40.00'	49.22'	28.27'	70°29'59"
(13)	20.00'	10.79'	5.53'	30°54'34"
(14)	120.00'	22.94'	11.50'	10°57'05"
(15)	40.00'	32.00'	16.91'	45°50'07"
(68)	60.00'	18.39'	9.27'	17°33'26"

SOUTH STREET BASELINE DATA TABLE				
DESCRIPTION/STA.	TANGENT/CURVE DATA		NORTHING	EASTING
PC STA. 10+50.00	R=1500.00' L=160.32'	Δ =6°07'26" T=80.24'	2803101.5380	885693.9335
PCC STA. 12+10.32	R=500.00' L=125.44'	Δ=14°22'29" T=63.05'	2803261.7440	885690.4525
PT STA. 13+35.76	L=386.65'	N18°40'53"W	2803384.3496	885665.5215
PC STA. 17+22.41	R=1800.00' L=303.66'	Δ=09°39'57" T=152.19'	2803750.6241	885541.6770
PCC STA. 20+26.07	R=10000.00' L=173.93'	Δ=00°59'47" T=86.97'	2804045.1110	885469.0800
PT STA. 22+00.00			2804217.1172	885443.3206

AUXILIARY BASELINE "D" DATA TABLE				
DESCRIPTION/STA.	TANGENT/CURVE DATA		NORTHING	EASTING
PC STA. 61+50.00	R=442.24' L=46.69'	Δ =6°02'57" T=23.37'	2803643.9233	885571.8932
PRC STA. 61+96.69	R=941.76' L=761.98'	Δ=46°21'29" T=403.10'	2803601.8880	885592.1653
PT STA. 69+58.67	L=1146.72'	S17°35'14"W	2802864.0510	885664.4049
PC STA. 81+05.39	R=1440.08' L=171.48'	Δ=06°49'55" T=85.96'	2801770.9309	885317.9151
PT STA. 82+76.87			2801610.9335	885256.5026

LEGEND

- (X) DRIVEWAY
- [XX] WHEELCHAIR RAMP
- (XX) CURVE
- ◇X BICYCLE RAMP

40 20 0 20 40 FEET

SCALE: 1" = 20'

Jacobs - J:\2007 Projects\070013.2056\CAD\Civil\Final August 2018\37-45 CTG 001.dwg, August 27, 2018

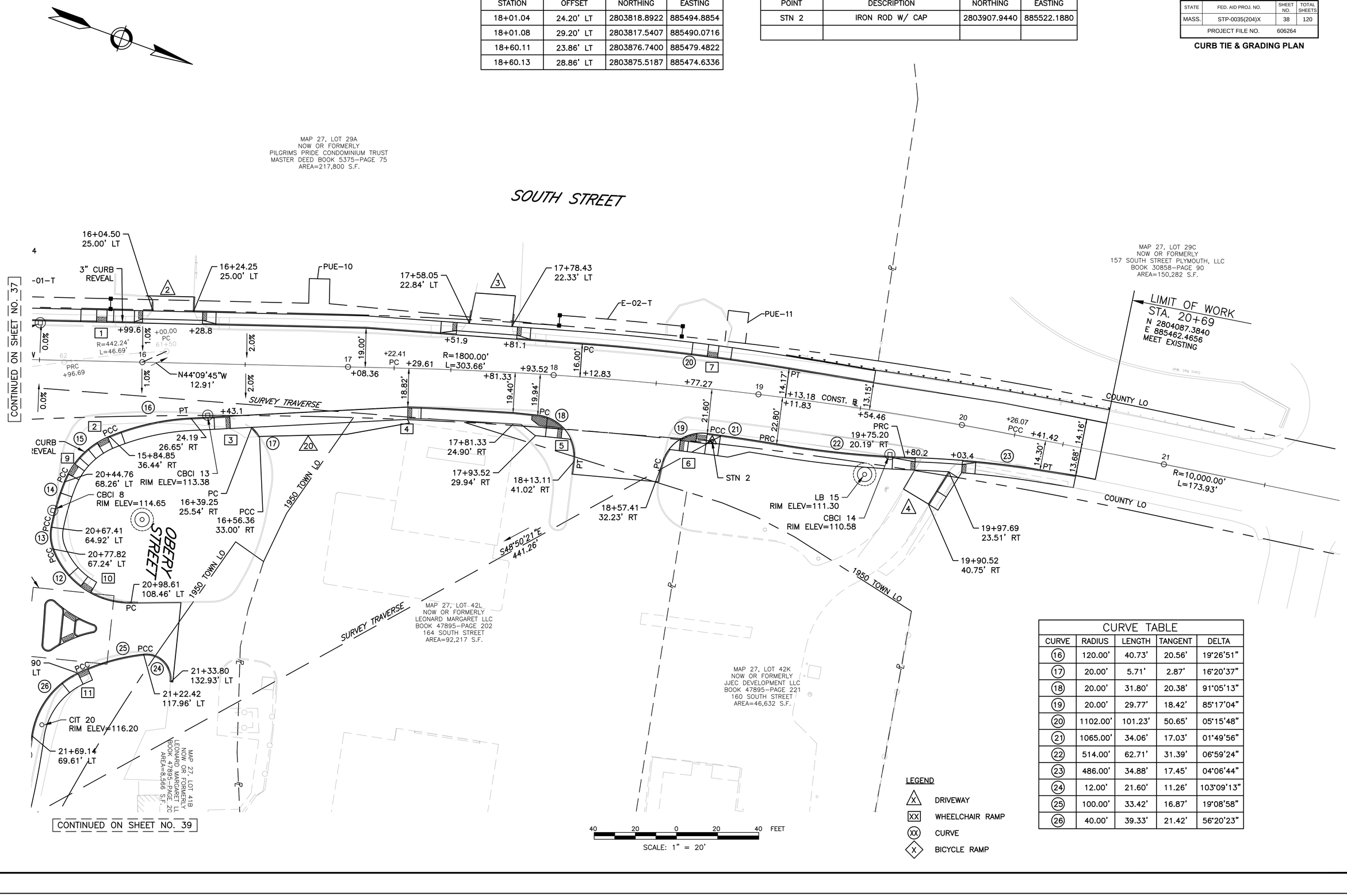
PROPOSED BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
18+01.04	24.20' LT	2803818.8922	885494.8854
18+01.08	29.20' LT	2803817.5407	885490.0716
18+60.11	23.86' LT	2803876.7400	885479.4822
18+60.13	28.86' LT	2803875.5187	885474.6336

SURVEY TRAVERSE DATA			
POINT	DESCRIPTION	NORTHING	EASTING
STN 2	IRON ROD W/ CAP	2803907.9440	885522.1880

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	38	120
PROJECT FILE NO.	606264		

CURB TIE & GRADING PLAN



CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
(16)	120.00'	40.73'	20.56'	19°26'51"
(17)	20.00'	5.71'	2.87'	16°20'37"
(18)	20.00'	31.80'	20.38'	91°05'13"
(19)	20.00'	29.77'	18.42'	85°17'04"
(20)	1102.00'	101.23'	50.65'	05°15'48"
(21)	1065.00'	34.06'	17.03'	01°49'56"
(22)	514.00'	62.71'	31.39'	06°59'24"
(23)	486.00'	34.88'	17.45'	04°06'44"
(24)	12.00'	21.60'	11.26'	103°09'13"
(25)	100.00'	33.42'	16.87'	19°08'58"
(26)	40.00'	39.33'	21.42'	56°20'23"

LEGEND
- (X) DRIVEWAY
- [XX] WHEELCHAIR RAMP
- (XX) CURVE
- ◇X◇ BICYCLE RAMP

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EXISTING BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
26+03.53	28.30' RT	2803654.1709	886217.7324

PROPOSED BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
24+36.64	22.50' RT	2803612.1921	886050.7534
24+96.12	30.42' RT	2803616.8981	886110.5737
26+04.11	28.48' RT	2803654.2671	886218.3678

SURVEY TRAVERSE DATA			
POINT	DESCRIPTION	NORTHING	EASTING
STN 3	DRILL HOLE IN CONC SIDEWALK	2803617.5175	885854.3970

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
(27)	403.00'	92.96'	46.69'	13°12'58"
(28)	125.00'	85.85'	44.70'	39°21'02"
(29)	3.00'	8.95'	38.09'	170°59'32"
(30)	484.00'	482.58'	263.49'	57°07'38"
(31)	40.00'	18.66'	9.50'	26°43'25"
(32)	15.00'	9.38'	4.85'	35°49'45"

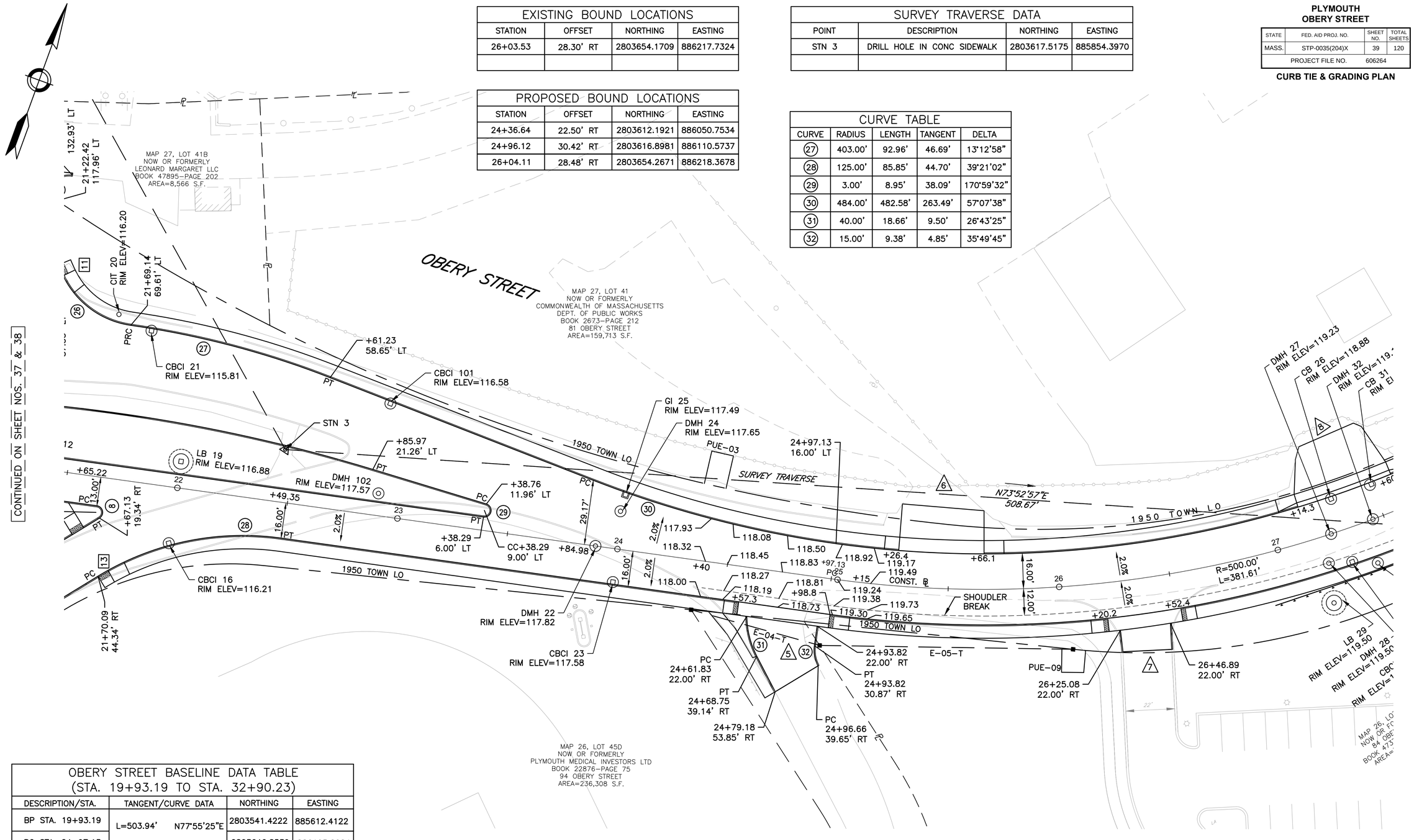
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	39	120
PROJECT FILE NO.	606264		

CURB TIE & GRADING PLAN

CONTINUED ON SHEET NOS. 37 & 38

CONTINUED ON SHEET NO. 40



OBERY STREET BASELINE DATA TABLE (STA. 19+93.19 TO STA. 32+90.23)				
DESCRIPTION/STA.	TANGENT/CURVE DATA		NORTHING	EASTING
BP STA. 19+93.19	L=503.94'	N77°55'25"E	2803541.4222	885612.4122
PC STA. 24+97.13	R=500.00' L=381.61'	Δ=43°43'45" T=200.64'	2803646.8539	886105.2024
PT STA. 28+78.74			2803854.7868	886414.1628
PC STA. 31+73.81	L=295.07'	N34°11'40"E	2804098.8472	886579.9919
PT STA. 32+17.27	R=400.00' L=43.46'	Δ=06°13'33" T=21.75'	2804133.4014	886606.3222
EP STA. 32+90.23	L=72.96'	N40°25'13"E	2804188.9460	886653.6282

LEGEND

- (X) DRIVEWAY
- [XX] WHEELCHAIR RAMP
- (XX) CURVE
- <X> BICYCLE RAMP

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

CURB TIE AND GRADING NOTES:

39-1) STA. 24+40.00 TO STA 25+15: TRANSITION RT TRAVEL LANE FROM −2.0% TO +2.0%.

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PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	40	120
PROJECT FILE NO.	606264		

CURB TIE & GRADING PLAN

EXISTING BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
29+13.10	22.87' RT	2803870.3514	886452.3926
30+58.22	32.87' LT	2804021.7069	886487.8421

SURVEY TRAVERSE DATA			
POINT	DESCRIPTION	NORTHING	EASTING
STN 4	HUB/TACK	2803758.7293	886343.0732

PROPOSED BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
30+99.33	30.19' RT	2804020.2710	886563.1062
31+87.92	36.32' RT	2804088.9162	886617.4312
32+06.42	39.63' LT	2804149.9062	886568.5425
32+34.14	54.20' LT	2804181.3897	886575.9951

[CONTINUED ON SHEET NO. 39]

[CONTINUED ON SHEET NO. 41]

MAP 27, LOT 43E
NOW OR FORMERLY
NANCY REALTY TRUST
BOOK 34150–PAGE 83
73 OBERY STREET
AREA=15,890 S.F.

MAP 27, LOT 43F
NOW OR FORMERLY
SOUTH SHORE COMMUNITY ACTION
BOOK 41583–PAGE 85
71 OBERY STREET
AREA=122,827 S.F.

MAP 27, LOT 41
NOW OR FORMERLY
COMMONWEALTH OF MASSACHUSETTS
DEPT. OF PUBLIC WORKS
BOOK 2673–PAGE 212
81 OBERY STREET
AREA=159,713 S.F.

OBERY STREET

1950 TOWN LO

DMH 27
RIM ELEV=119.23

CB 26
RIM ELEV=118.88

DMH 32
RIM ELEV=119.16

CB 31
RIM ELEV=118.83

CIT 35
RIM ELEV=119.46

CBCI 40
RIM ELEV=121.01

CBCI 43
RIM ELEV=126.84

DMH 42
RIM ELEV=126.59

STN 4

CONST. ℄

SHOULDER BREAK

SURVEY TRAVERSE

N34°11'40"E
295.07'

N35°17'19"E
590.68'

R=500.00'
L=381.61'

R=400.00'
L=43.46'

PT 28+78.74
16.00' LT

30+50.00
22.00' LT

31+00.00
28.00' LT

31+68.51
19.62' LT

32+17.58
26.59' LT

32+37.65
52.09' LT

+59.0 PT

+37.6
SEE DETAIL B
SHEET 46
+45.97

+73.81
PC

+17.2
PT

PT +56.4

+13.5

30+50.00
22.00' RT

31+00.00
28.00' RT

32+00.82
20.88' RT

32+46.48
41.20' RT

1+01.70
20.83' RT

1+33.69
18.97' RT

3" CURB REVEAL
SEE CURB TIE AND GRADING
NOTE #40–2

LB 29
RIM ELEV=119.50

DMH 28
RIM ELEV=119.50

CBCI 30
RIM ELEV=119.36

CBCI 34
RIM ELEV=119.31

DMH 33
RIM ELEV=119.17

DMH 36
RIM ELEV=119.93

DMH 37
RIM ELEV=120.81

CBCI 38
RIM ELEV=120.99

DMH 39
RIM ELEV=121.80

LB 41
RIM ELEV=121.25

CBCI 44
RIM ELEV=126.84

E–08

E–06–T

D–01

MAP 26, LOT 45C
NOW OR FORMERLY
84 OBERY LLC
BOOK 47371–PAGE 144
AREA=206,686 S.F.

MAP 26, LOT 44–5
NOW OR FORMERLY
INHABITANTS OF
COUNTY OF PLYMOUTH
52 OBERY STREET
LC CERT. NO. 225
AREA=4,775,766 S.F.

COURTHOUSE DRIVE

LIMIT OF WORK
STA. 2+07
N 2804065.0004
E 886818.9024
MEET EXISTING

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
(33)	1000.00	85.13'	42.59'	04°52'39"
(34)	1000.00'	66.28'	33.15'	03°47'52"
(35)	55.00'	50.85'	27.40'	52°58'14"

CURB TIE AND GRADING NOTES:

40–1) STA. 28+65.00 TO STA 29+40.00: TRANSITION RT TRAVEL LANE FROM +2.0% TO –2.0%.

40–2) CONSTRUCT A GRASS PANEL WITH 4" LOAM AND SEED BETWEEN BICYCLE RAMP 1 AND WCR 15 RAMP.

LEGEND

- (X) DRIVEWAY
- [XX] WHEELCHAIR RAMP
- (XX) CURVE
- ⟨X⟩ BICYCLE RAMP

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

Jacobs - J:\2007 Projects\070013 209\CAD/Civil\Final August 2018\37-45 CTG 001.dwg August 27, 2018

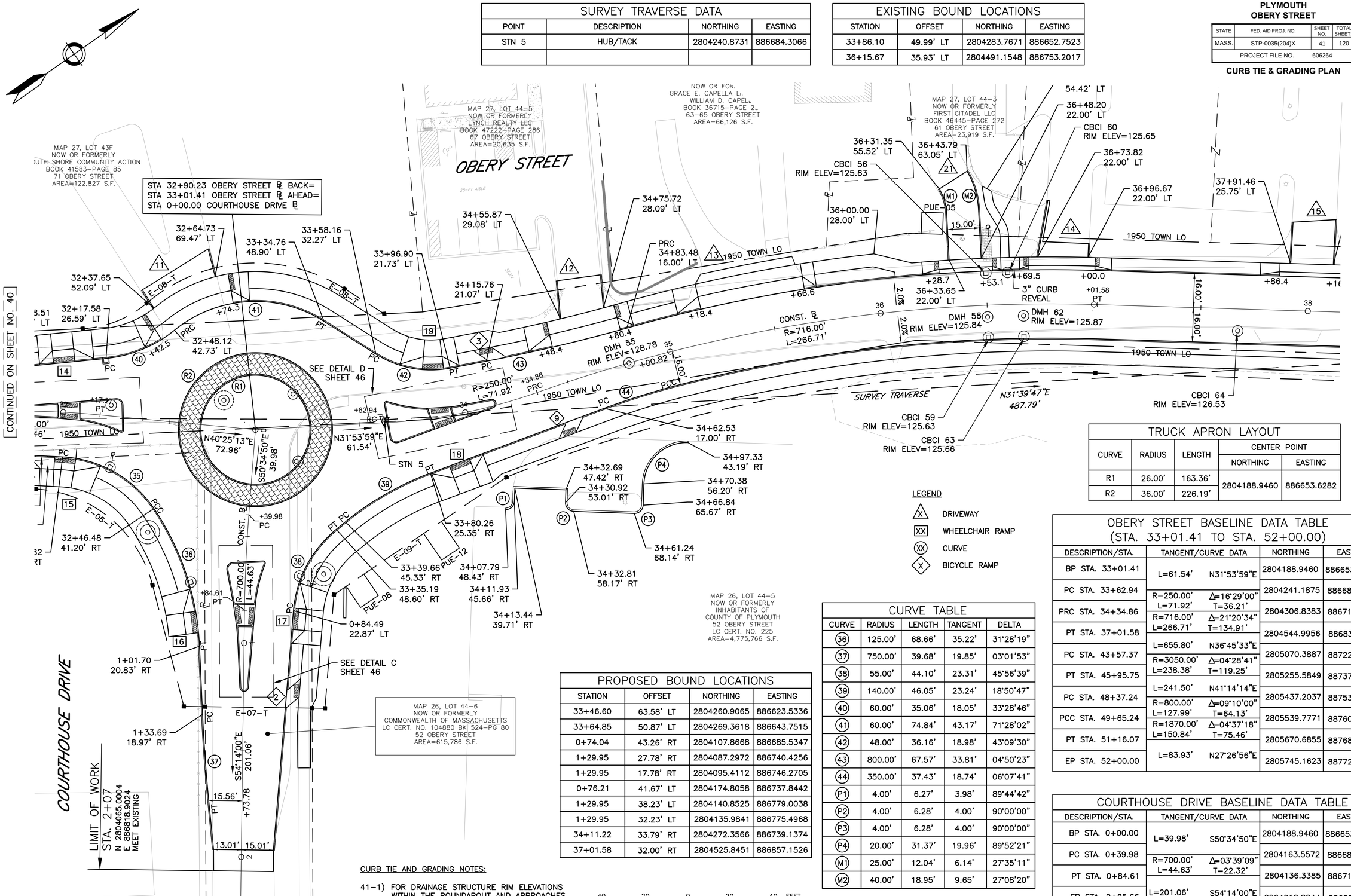
SURVEY TRAVERSE DATA			
POINT	DESCRIPTION	NORTHING	EASTING
STN 5	HUB/TACK	2804240.8731	886684.3066

EXISTING BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
33+86.10	49.99' LT	2804283.7671	886652.7523
36+15.67	35.93' LT	2804491.1548	886753.2017

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	41	120
PROJECT FILE NO.	606264		

CURB TIE & GRADING PLAN



TRUCK APRON LAYOUT				
CURVE	RADIUS	LENGTH	CENTER POINT	
			NORTHING	EASTING
R1	26.00'	163.36'	2804188.9460	886653.6282
R2	36.00'	226.19'		

LEGEND

- (X) DRIVEWAY
- [XX] WHEELCHAIR RAMP
- (XX) CURVE
- ◇X BICYCLE RAMP

MAP 26, LOT 44-5
NOW OR FORMERLY
INHABITANTS OF
COUNTY OF PLYMOUTH
52 OBERY STREET
LC CERT. NO. 225
AREA=4,775,766 S.F.

MAP 26, LOT 44-6
NOW OR FORMERLY
COMMONWEALTH OF MASSACHUSETTS
LC CERT. NO. 104880 BK 524-PG 80
52 OBERY STREET
AREA=615,786 S.F.

PROPOSED BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
33+46.60	63.58' LT	2804260.9065	886623.5336
33+64.85	50.87' LT	2804269.3618	886643.7515
0+74.04	43.26' RT	2804107.8668	886685.5347
1+29.95	27.78' RT	2804087.2972	886740.4256
1+29.95	17.78' RT	2804095.4112	886746.2705
0+76.21	41.67' LT	2804174.8058	886737.8442
1+29.95	38.23' LT	2804140.8525	886779.0038
1+29.95	32.23' LT	2804135.9841	886775.4968
34+11.22	33.79' RT	2804272.3566	886739.1374
37+01.58	32.00' RT	2804525.8451	886857.1526

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
(36)	125.00'	68.66'	35.22'	31°28'19"
(37)	750.00'	39.68'	19.85'	03°01'53"
(38)	55.00'	44.10'	23.31'	45°56'39"
(39)	140.00'	46.05'	23.24'	18°50'47"
(40)	60.00'	35.06'	18.05'	33°28'46"
(41)	60.00'	74.84'	43.17'	71°28'02"
(42)	48.00'	36.16'	18.98'	43°09'30"
(43)	800.00'	67.57'	33.81'	04°50'23"
(44)	350.00'	37.43'	18.74'	06°07'41"
(P1)	4.00'	6.27'	3.98'	89°44'42"
(P2)	4.00'	6.28'	4.00'	90°00'00"
(P3)	4.00'	6.28'	4.00'	90°00'00"
(P4)	20.00'	31.37'	19.96'	89°52'21"
(M1)	25.00'	12.04'	6.14'	27°35'11"
(M2)	40.00'	18.95'	9.65'	27°08'20"

OBERY STREET BASELINE DATA TABLE (STA. 33+01.41 TO STA. 52+00.00)				
DESCRIPTION/STA.	TANGENT/CURVE DATA		NORTHING	EASTING
BP STA. 33+01.41	L=61.54'	N31°53'59"E	2804188.9460	886653.6282
PC STA. 33+62.94	R=250.00' L=71.92'	Δ=16°29'00" T=36.21'	2804241.1875	886686.1453
PRC STA. 34+34.86	R=716.00' L=266.71'	Δ=21°20'34" T=134.91'	2804306.8383	886714.9067
PT STA. 37+01.58	L=655.80'	N36°45'33"E	2804544.9956	886831.5156
PC STA. 43+57.37	R=3050.00' L=238.38'	Δ=04°28'41" T=119.25'	2805070.3887	887223.9813
PT STA. 45+95.75	L=241.50'	N41°14'14"E	2805255.5849	887373.9340
PC STA. 48+37.24	R=800.00' L=127.99'	Δ=09°10'00" T=64.13'	2805437.2037	887533.1377
PCC STA. 49+65.24	R=1870.00' L=150.84'	Δ=04°37'18" T=75.46'	2805539.7771	887609.4650
PT STA. 51+16.07	L=83.93'	N27°26'56"E	2805670.6855	887684.3145
EP STA. 52+00.00			2805745.1623	887723.0003

COURTHOUSE DRIVE BASELINE DATA TABLE				
DESCRIPTION/STA.	TANGENT/CURVE DATA		NORTHING	EASTING
BP STA. 0+00.00	L=39.98'	S50°34'50"E	2804188.9460	886653.6282
PC STA. 0+39.98	R=700.00' L=44.63'	Δ=03°39'09" T=22.32'	2804163.5572	886684.5157
PT STA. 0+84.61	L=201.06'	S54°14'00"E	2804136.3385	886719.8688
EP STA. 2+85.66			2804018.8244	886883.0053

CURB TIE AND GRADING NOTES:

41-1) FOR DRAINAGE STRUCTURE RIM ELEVATIONS WITHIN THE ROUNDABOUT AND APPROACHES, SEE GRADING PLAN SHEET 49.

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

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\37-45_CTG_001.dwg August 27, 2018

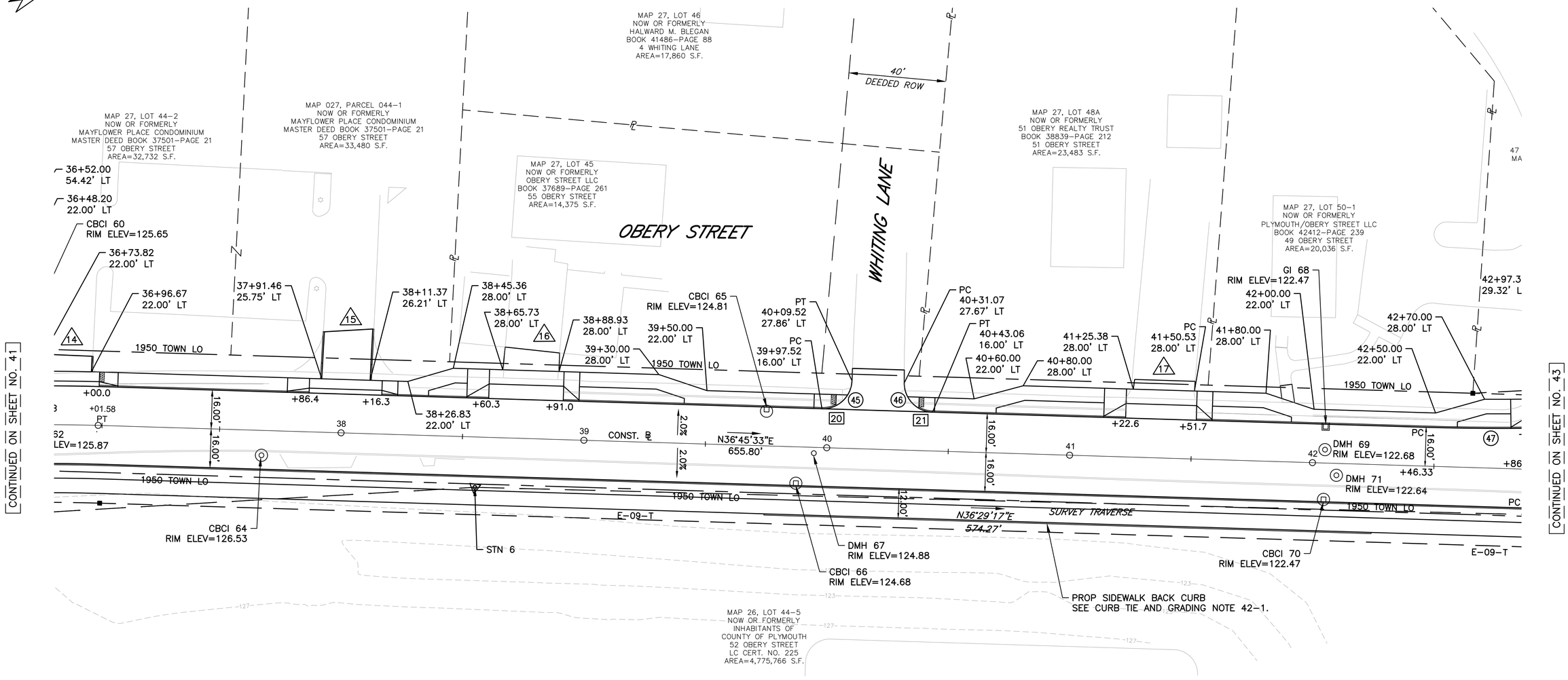
SURVEY TRAVERSE DATA			
POINT	DESCRIPTION	NORTHING	EASTING
STN 6	PK NAIL	2804656.0559	886940.3580

EXISTING BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
40+37.16	30.59' LT	2804832.1559	887007.8411
41+55.91	30.44' LT	2804927.2051	887079.0282

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	42	120
PROJECT FILE NO.	606264		

CURB TIE & GRADING PLAN



CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
(45)	12.00'	18.71'	11.86'	89°19'36"
(46)	12.00'	18.52'	11.67'	88°24'14"

CURB TIE & GRADING NOTES:

42-1) CONSTRUCT GRANITE CURB TYPE VA3 WITH 12" REVEAL AT BACK OF SIDEWALK FROM STA 39+75.00 22.00' RT TO STA 42+25.00, 22.00' RT.

TRANSITION GRANITE BACK CURB FROM 0" TO 12" REVEAL FROM STA 39+75.00 TO STA 39+88.00 AND FROM 12" TO 0" REVEAL FROM STA 42+12.00 TO STA 42+25.00.

LEGEND

- (X) DRIVEWAY
- [XX] WHEELCHAIR RAMP
- (XX) CURVE
- <X> BICYCLE RAMP

40 20 0 20 40 FEET

SCALE: 1" = 20'

Jacobs - J:\2007 Projects\070013.2\06\CAD\Civil\Final August 2018\37-45 CTG 001.dwg August 27, 2018

TRUCK APRON LAYOUT				
CURVE	RADIUS	LENGTH	CENTER POINT	
			NORTHING	EASTING
R3	26.00'	163.36'	2805164.6431	887297.2965
R4	36.00'	226.19'		

HIGH SCHOOL DRIVE BASELINE DATA TABLE				
DESCRIPTION/STA.	TANGENT/CURVE DATA		NORTHING	EASTING
BP STA. 0+00.00	L=57.25'	N51°23'52"W	2805164.6431	887297.2965
PC STA. 0+57.25	R=200.00' L=82.96'	Δ=23°45'54" T=42.08'	2805200.3612	887252.5570
PT STA. 1+40.20			2805237.3936	887178.9895
EP STA. 2+50.00	L=109.80'	N75°09'46"W	2805265.5094	887072.8549

SURVEY TRAVERSE DATA			
POINT	DESCRIPTION	NORTHING	EASTING
STN 7	PK NAIL	2805117.7586	887281.8498

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	43	120
PROJECT FILE NO.	606264		

CURB TIE & GRADING PLAN

EXISTING BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
43+77.47	19.45' RT	2805074.7260	887251.5593
43+78.86	30.80' LT	2805106.1616	887212.3325

PROPOSED BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
42+65.09	30.59' LT	2805014.7710	887144.2387
43+40.86	36.91' LT	2805079.2532	887184.5247
44+32.95	71.47' LT	2805174.5497	887213.7768
44+38.13	110.26' LT	2805202.7496	887186.6014
45+09.03	112.75' LT	2805261.4670	887230.8568
45+14.37	91.68' LT	2805252.2698	887250.6010
45+71.85	34.92' LT	2805260.3792	887331.8316
46+15.41	25.20' LT	2805286.9966	887367.9620
43+04.75	32.00' RT	2805009.0852	887218.1255
43+83.43	34.73' RT	2805070.1767	887267.3040
0+73.85 (A.C. CARANCI WAY)	42.90' RT	2805079.5246	887318.8230
1+41.59 (A.C. CARANCI WAY)	30.77' RT	2805043.4509	887379.8255
0+69.54 (A.C. CARANCI WAY)	44.14' LT	2805146.0496	887375.1151
1+42.45 (A.C. CARANCI WAY)	29.23' LT	2805088.9517	887418.9367
45+58.73	45.46' RT	2805198.0697	887384.2681
46+48.95	30.00' RT	2805275.8348	887431.5790

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
(47)	1000.00'	36.83'	18.42'	02°06'37"
(48)	1000.00'	36.21'	18.11'	02°04'29"
(49)	150.00'	51.68'	26.10'	19°44'29"
(50)	50.00'	60.02'	34.22'	68°46'47"
(51)	150.00'	51.42'	25.96'	19°38'27"
(55)	50.00'	45.70'	24.59'	52°22'20"
(56)	100.00'	50.25'	25.67'	28°47'25"
(57)	48.00'	66.65'	39.97'	79°33'43"
(58)	20.00'	27.30'	16.26'	78°12'57"
(59)	20.00'	31.46'	20.05'	90°08'02"
(60)	148.00'	73.43'	37.49'	28°25'43"
(61)	50.00'	39.54'	20.87'	45°18'41"
(69)	15.00'	12.35'	6.55'	47°09'23"
(70)	10.00'	8.23'	4.36'	47°09'23"

CURB TIE & GRADING NOTES:

43-1) FOR DRAINAGE STRUCTURE RIM ELEVATIONS WITHIN THE ROUNDABOUT AND APPROACHES, SEE GRADING PLAN SHEET 50.

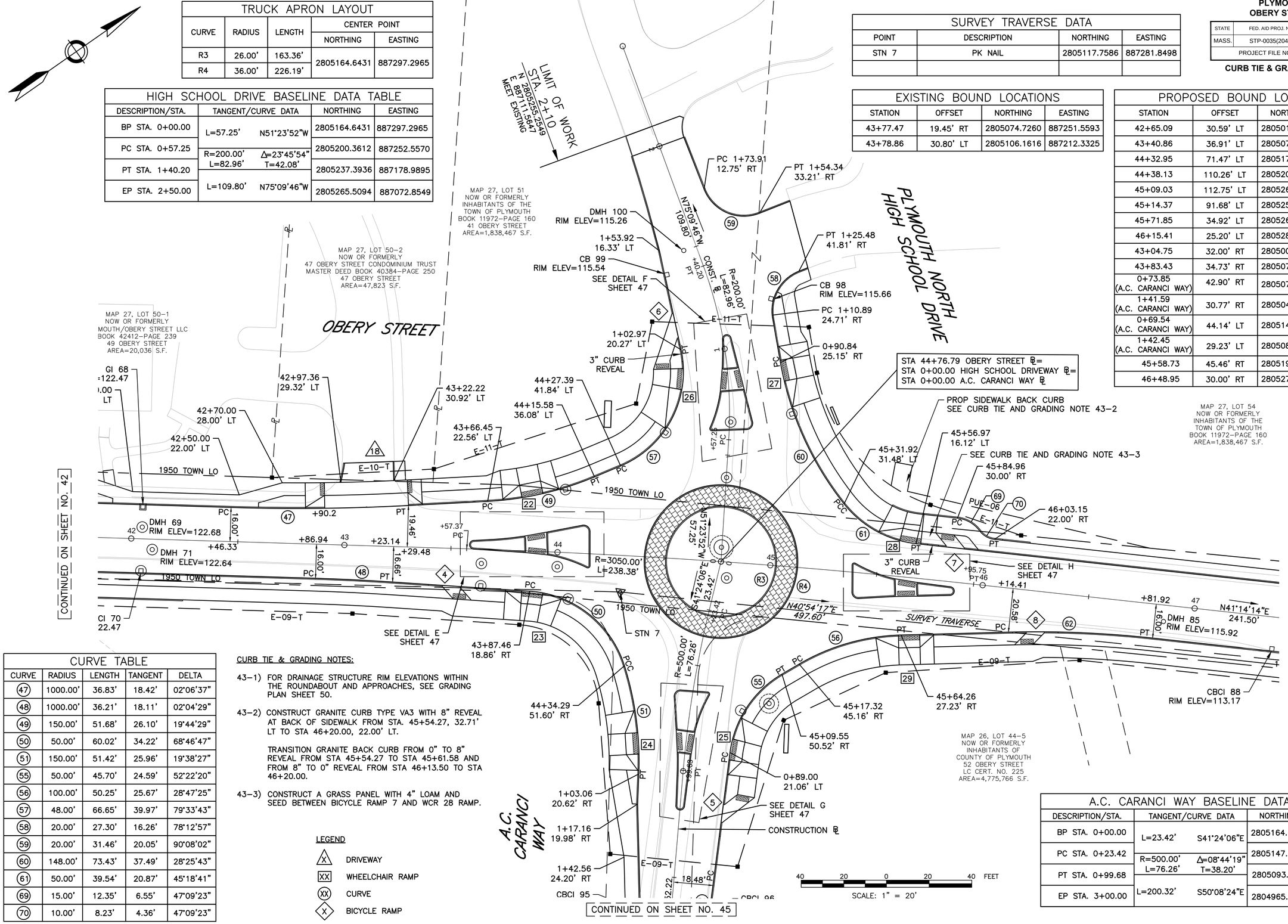
43-2) CONSTRUCT GRANITE CURB TYPE VA3 WITH 8" REVEAL AT BACK OF SIDEWALK FROM STA. 45+54.27, 32.71' LT TO STA 46+20.00, 22.00' LT.

TRANSITION GRANITE BACK CURB FROM 0" TO 8" REVEAL FROM STA 45+54.27 TO STA 45+61.58 AND FROM 8" TO 0" REVEAL FROM STA 46+13.50 TO STA 46+20.00.

43-3) CONSTRUCT A GRASS PANEL WITH 4" LOAM AND SEED BETWEEN BICYCLE RAMP 7 AND WCR 28 RAMP.

LEGEND

- (X) DRIVEWAY
- [XX] WHEELCHAIR RAMP
- (XX) CURVE
- ◇X BICYCLE RAMP



A.C. CARANCI WAY BASELINE DATA TABLE				
DESCRIPTION/STA.	TANGENT/CURVE DATA		NORTHING	EASTING
BP STA. 0+00.00	L=23.42'	S41°24'06"E	2805164.6431	887297.2965
PC STA. 0+23.42	R=500.00' L=76.26'	Δ=08°44'19" T=38.20'	2805147.0773	887312.7838
PT STA. 0+99.68			2805093.9368	887367.3737
EP STA. 3+00.00	L=200.32'	S50°08'24"E	2804965.5465	887521.1452

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SURVEY TRAVERSE DATA			
POINT	DESCRIPTION	NORTHING	EASTING
STN 8	PLYMOUTH COUNTY DISC	2805493.8450	887607.6791

EXISTING BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
49+26.74	23.89' RT	2805494.0122	887607.8522

PROPOSED BOUND LOCATIONS			
STATION	OFFSET	NORTHING	EASTING
47+95.40	30.00' RT	2805385.9617	887528.1142
48+50.57	38.12' RT	2805422.6514	887570.9142

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	44	120
PROJECT FILE NO.	606264		

CURB TIE & GRADING PLAN

REET ℄=
OL DRIVEWAY ℄=
CI WAY ℄

K BACK CURB
AND GRADING NOTE 43–2

B TIE AND GRADING NOTE 43–3
4.96
)' RT

CONTINUED ON SHEET NO. 43

— SEE DETAIL H
SHEET 47
4.41

MAP 27, LOT 54
NOW OR FORMERLY
INHABITANTS OF THE
TOWN OF PLYMOUTH
BOOK 11972–PAGE 160
AREA=1,838,467 S.F.

OBERY STREET

STA 48+27.02 OBERY STREET ℄ =
STA 0+00.00 PLYMOUTH CO. DRIVEWAY ℄

LIMIT OF WORK
STA. 49+70
N 2805543.8185
E 887611.9901
MEET EXISTING

EXISTING DRAINAGE EASEMENT

EXISTING DRAINAGE EASEMENT

46+03.15
22.00' RT

1950 TOWN LO

PC 48+37.24
16.00' LT
PUE–07

GI 86
RIM ELEV=108.39

DMH 87
RIM ELEV=108.60

1950 TOWN L.O.

+81.92
N41°14'14"E
241.50'
CONST. ℄

DMH 85
RIM ELEV=115.92

DMH 89
RIM ELEV=112.89

+98.31

+37.24
PC

+61.06

+00.00

+20.02

R=800.00'
L=127.99'

+65.24
PCC

R=1870.00'
L=150.84'

+16.07
PT

N27°26'56"E
83.93'

1950 TOWN LO

CBCI 88
RIM ELEV=113.17

0+55.95
15.00' RT

S49°26'51"E
29.60'

+29.60
PC

PRC

PT

+33.2

+53.1

1950 TOWN L.O.

SURVEY TRAVERSE

E–09–T

DMH 93
RIM ELEV=108.46

STN 8

0+32.50
15.00' LT

0+42.09
17.50' LT

CONSTRUCTION ℄

S02°22'44"E
44.17

+55.83
PT

PC

R=29.00'
L=26.23'

44–5
ERLY
OF
MOUTH
REET
225
6 S.F.

20'
UTILITY
EASEMENT

PLYMOUTH
COUNTY
DRIVEWAY

LIMIT OF WORK
STA. 0+62
N 2805380.8715
E 887558.7529
MEET EXISTING

MAP 26, LOT 43
NOW OR FORMERLY
ROBERT HUDSON
BOOK 44487–PAGE 333
30 OBERY STREET
AREA=34,373 S.F.

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
(62)	500.00'	67.71'	33.91'	07°45'34"
(63)	14.00'	34.49'	39.69'	141°08'30"
(64)	44.00'	35.36'	18.70'	46°02'38"
(65)	20.00'	29.04'	17.76'	83°11'48"
(66)	784.00'	61.50'	30.77'	4°29'40"
(67)	816.00'	60.12'	30.07'	4°13'17"

CURB TIE AND GRADING NOTES:

44–1) FOR DRAINAGE STRUCTURE RIM ELEVATIONS IN THE PLYMOUTH COUNTY DRIVEWAY, SEE GRADING PLAN SHEET 48.

LEGEND

- X — DRIVEWAY
- XX — WHEELCHAIR RAMP
- (XX) — CURVE
- X — BICYCLE RAMP

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

PLYMOUTH COUNTY DRIVEWAY BASELINE DATA TABLE				
DESCRIPTION/STA.	TANGENT/CURVE DATA		NORTHING	EASTING
BP STA. 0+00.00	L=29.60'	S49°26'51"E	2803101.5380	885693.9335
PC STA. 0+29.60	R=29.00' L=26.23'	Δ=51°49'35" T=14.09'	2803261.7440	885690.4525
PT STA. 0+55.83			2803384.3496	885665.5215
EP STA. 1+00.00	L=44.17'	S02°22'44"W	2803750.6241	885541.6770

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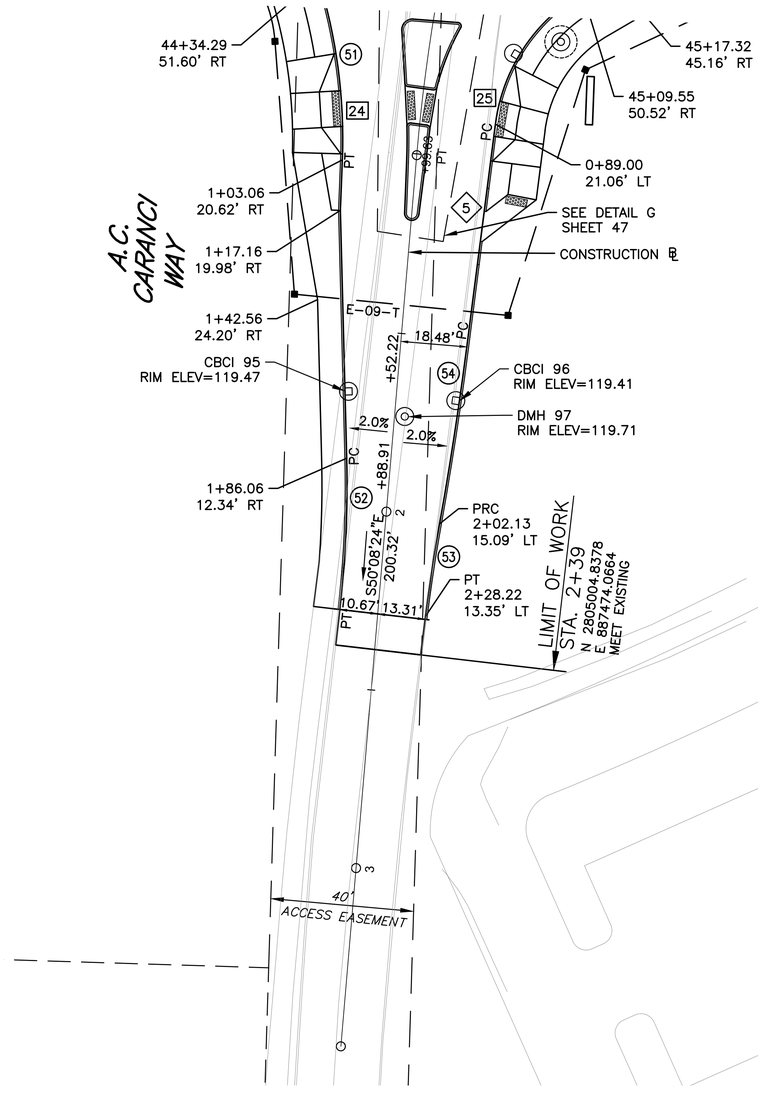
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	45	120
PROJECT FILE NO.	606264		

CURB TIE & GRADING PLAN

CONTINUED ON SHEET NO. 43



CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
(52)	300.00'	42.36'	21.22'	08°05'28"
(53)	500.00'	26.15'	12.20'	02°59'47"
(54)	1000.00'	50.04'	25.02'	02°52'01"

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

CURB TIE AND GRADING NOTES:

45-1) FOR DRAINAGE STRUCTURE RIM ELEVATIONS WITHIN THE ROUNDABOUT AND APPROACHES, SEE GRADING PLAN SHEET 50.

LEGEND

- X — DRIVEWAY
- XX — WHEELCHAIR RAMP
- (XX) — CURVE
- X — BICYCLE RAMP

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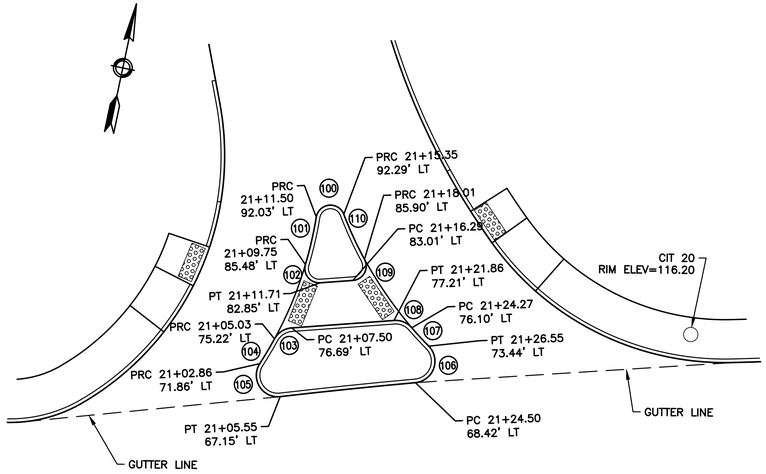
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	46	120
PROJECT FILE NO.	606264		

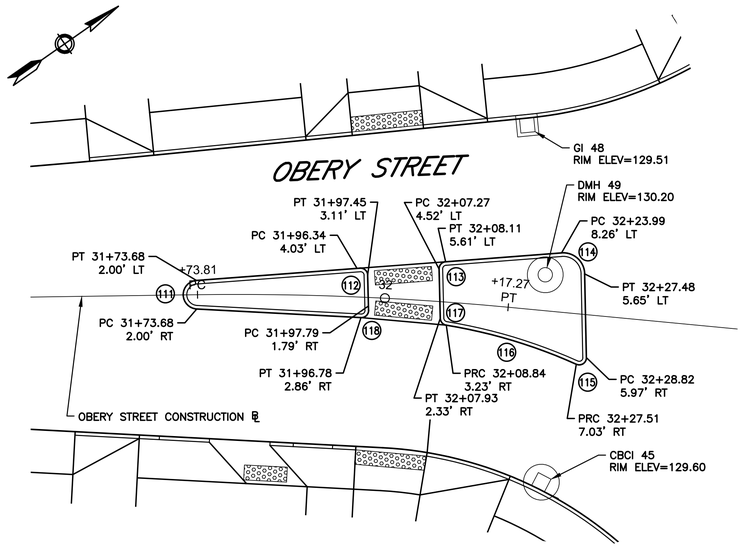
CURB TIE AND GRADING PLAN



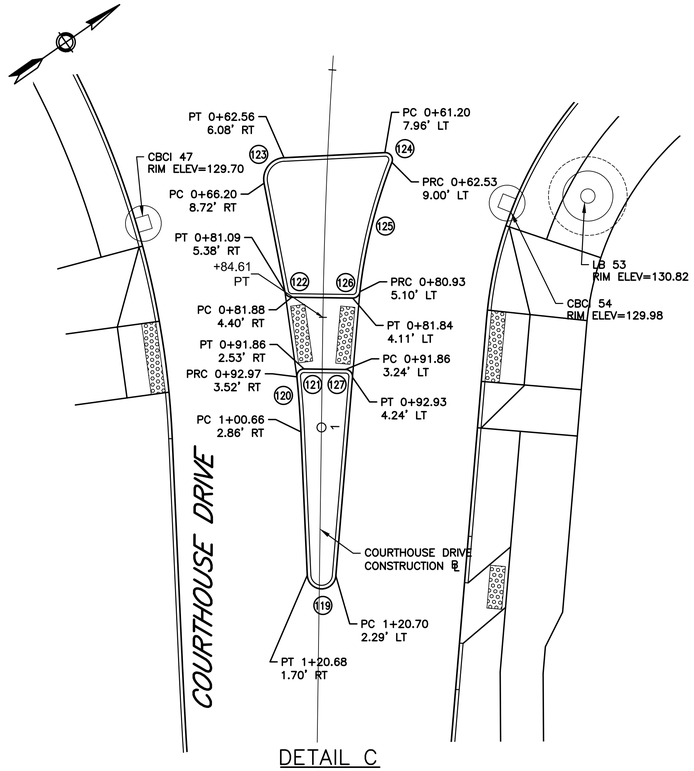
OBERY STREET

DETAIL A
SCALE: 1"=10'

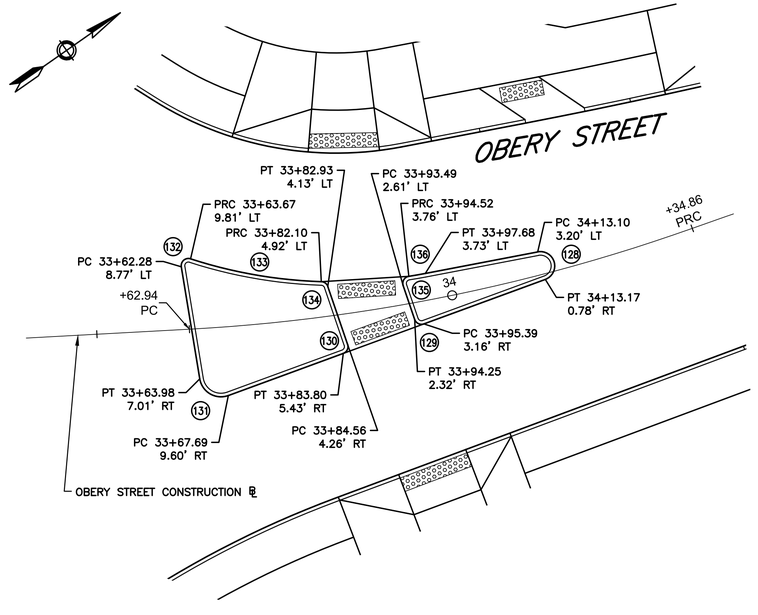
CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
100	2.00'	5.23'	7.40	149°45'35"
101	53.50'	6.79'	3.40'	07°15'59"
102	2.00'	3.86'	2.89'	110°41'52"
103	3.00'	2.99'	1.64'	57°11'20"
104	53.50'	4.01'	2.00'	04°17'21"
105	3.00'	6.78'	6.37'	129°32'10"
106	3.00'	6.68'	6.34'	129°23'17"
107	53.50'	3.49'	1.74'	03°44'29"
108	3.00'	2.79'	1.51'	53°17'23"
109	2.00'	3.99'	3.09'	114°13'35"
110	53.50'	6.93'	3.47'	07°25'02"
111	2.00'	6.03'	31.44'	172°43'10"
112	1.00'	1.62'	1.05'	92°50'03"
113	1.00'	1.52'	0.95'	87°05'20"
114	3.00'	4.88'	3.17'	93°11'06"
115	1.00'	2.01'	1.58'	115°22'25"
116	73.00'	7.83'	9.56'	14°55'46"
117	1.00'	1.38'	0.83'	79°16'54"
118	1.00'	1.65'	1.08'	94°26'47"
119	2.00'	6.03'	31.18'	172°39'34"
120	143.00'	7.71'	3.86'	03°05'28"
121	1.00'	1.68'	1.12'	96°25'02"
122	1.00'	1.37'	0.82'	78°22'05"
123	3.00'	5.13'	3.45'	97°57'09"
124	1.00'	1.99'	1.54'	114°08'39"
125	73.00'	7.42'	9.39'	14°39'45"
126	1.00'	1.47'	0.90'	84°11'53"
127	1.00'	1.64'	1.07'	94°00'52"
128	2.00'	5.96'	24.67'	170°43'56"
129	1.00'	1.59'	1.02'	91°15'28"
130	1.00'	1.55'	0.98'	88°44'32"
131	3.00'	5.28'	3.62'	100°46'42"
132	1.00'	2.05'	1.64'	117°19'30"
133	66.00'	18.60'	9.36'	16°08'57"
134	1.00'	1.21'	0.69'	69°18'13"
135	1.00'	1.75'	1.19'	100°02'19"
136	66.00'	2.34'	1.17'	02°01'43"



DETAIL B
SCALE: 1"=10'



DETAIL C
SCALE: 1"=10'



DETAIL D
SCALE: 1"=10'

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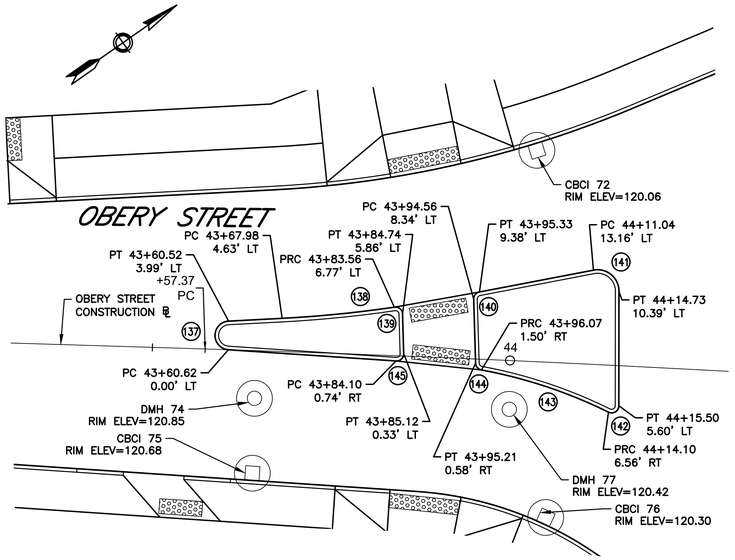
PLYMOUTH
OBERY STREET

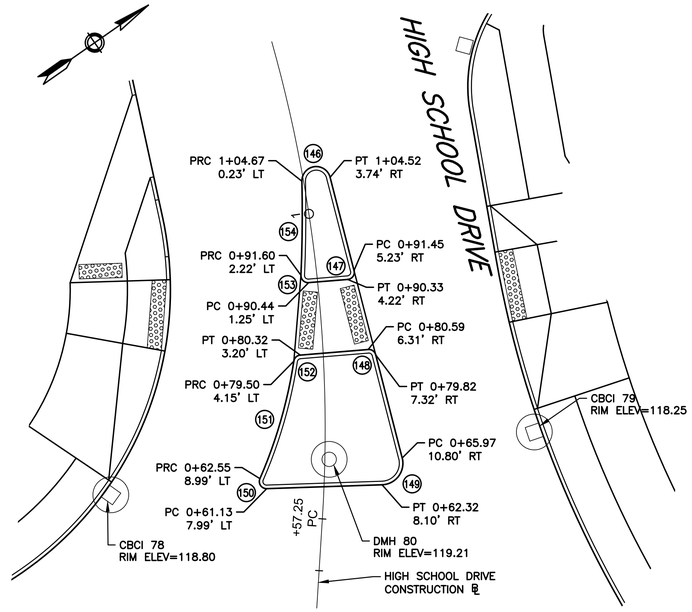
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	47	120
PROJECT FILE NO.	606264		

CURB TIE AND GRADING PLAN

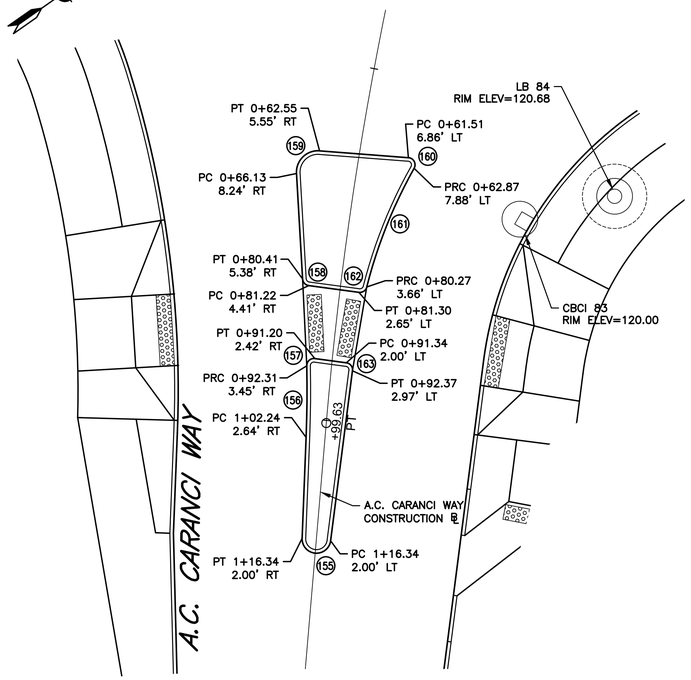


DETAIL E
SCALE: 1"=10'

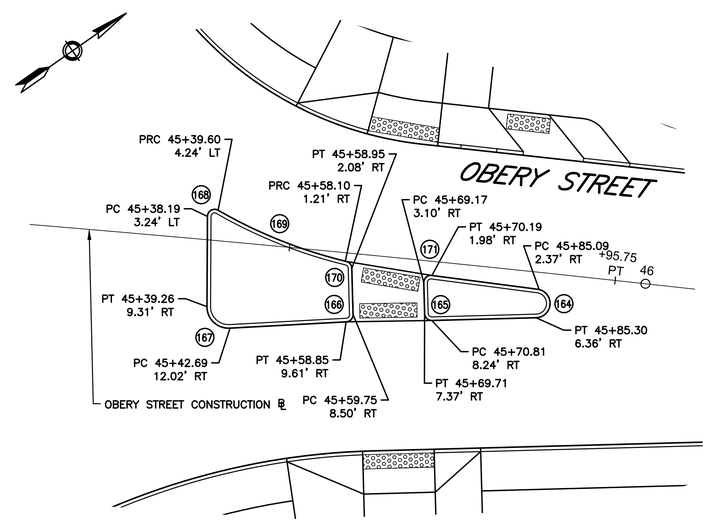
CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
37	2.00'	6.04'	33.45'	173°09'21"
138	168.00'	15.76'	7.88	05°22'26"
139	1.00'	1.69'	1.12'	96°40'56"
140	1.00'	1.41'	0.85'	80°51'02"
141	3.00'	5.28'	3.63'	100°55'08"
142	1.00'	2.03'	1.61'	116°12'55"
143	68.00'	18.77'	9.44'	15°48'44"
144	1.00'	1.36'	0.81'	77°49'39"
145	1.00'	1.67'	1.10'	95°32'08"
146	2.00'	5.83'	17.41'	166°53'29"
147	1.00'	1.74'	1.19'	99°42'01"
148	1.00'	1.40'	0.84'	80°17'59"
149	3.00'	5.37'	3.74'	102°29'37"
150	1.00'	2.02'	1.58'	115°27'17"
151	66.00'	17.14'	8.62'	14°52'37"
152	1.00'	1.34'	0.79'	76°37'44"
153	1.00'	1.70'	1.13'	97°10'22"
154	200.00'	13.14'	6.57'	03°45'52"
155	2.00'	6.11'	45.26'	174°56'21"
156	168.00'	10.01'	5.00'	03°24'46"
157	1.00'	1.72'	1.17'	98°48'33"
158	1.00'	1.38'	0.82'	79°01'18"
159	3.00'	5.12'	3.43'	97°42'25"
160	1.00'	2.01'	1.57'	114°53'58"
161	68.00'	17.91'	9.00'	15°05'12"
162	1.00'	1.46'	0.89'	83°27'34"
163	1.00'	1.56'	0.99'	89°38'52"
164	2.00'	5.97'	25.57'	171°03'18"
165	1.00'	1.57'	1.00'	90°00'00"
166	1.00'	1.54'	0.97'	88°24'55"
167	3.00'	4.89'	3.18'	93°24'06"
168	1.00'	2.09'	1.72'	119°36'36"
169	68.00'	19.36'	9.74'	16°18'30"
170	1.00'	1.31'	0.77'	74°52'53"
171	1.00'	1.73'	1.17'	98°56'42"



DETAIL F
SCALE: 1"=10'



DETAIL G
SCALE: 1"=10'



DETAIL H
SCALE: 1"=10'

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PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	48	120
PROJECT FILE NO.	606264		

GRADING PLAN

OBERY STREET

SOUTH STREET

CONSTRUCTION ℄

OBERY STREET CONSTRUCTION ℄

PLYMOUTH COUNTY DRIVEWAY CONSTRUCTION ℄

20+95.00, 132.51' RT
EL 113.60±

21+33.80, 132.93' LT
EL 113.75±

21+13.20, 93.34' LT
EL 115.05

21+18.01, 85.90' LT
EL 115.24

21+33.09, 92.06' LT
EL 115.49

21+09.75, 85.48' LT
EL 115.16

20+96.30, 87.98' LT
EL 114.93

PROP CIT 20
RIM ELEV=116.20

PROP CBCI 21
RIM ELEV=115.81

CBCI 8
RIM ELEV=114.65

GUTTER LINE

CBCI 101
RIM ELEV=116.58

DMH 24
RIM ELEV=117.65

GI 25
RIM ELEV=117.49

DMH 102
RIM ELEV=117.57

LB 19
RIM ELEV=116.88

LB 18
RIM ELEV=116.12

SWALE LINE

CROWN LINE

CBCI 7
RIM ELEV=115.50

21+50.00
32.36' RT
EL 116.11

21+25.00
52.86' RT
EL 115.97

21+00.00
73.36' RT
EL 115.84

20+75.00
93.95' RT
EL 115.71

21+63.95
49.38' RT
EL 115.67

21+38.95
69.88' RT
EL 115.53

21+13.95
90.37' RT
EL 115.40

20+89.45
110.52' RT
EL 115.27

CBCI 16
RIM ELEV=116.21

CBCI 23
RIM ELEV=117.58

DMH 22
RIM ELEV=117.82

CBCI 2
RIM ELEV=115.36

CBCI 1
RIM ELEV=114.98

13+58.77
31.21' RT
EL 115.47

13+50.00
53.93' RT
EL 114.99

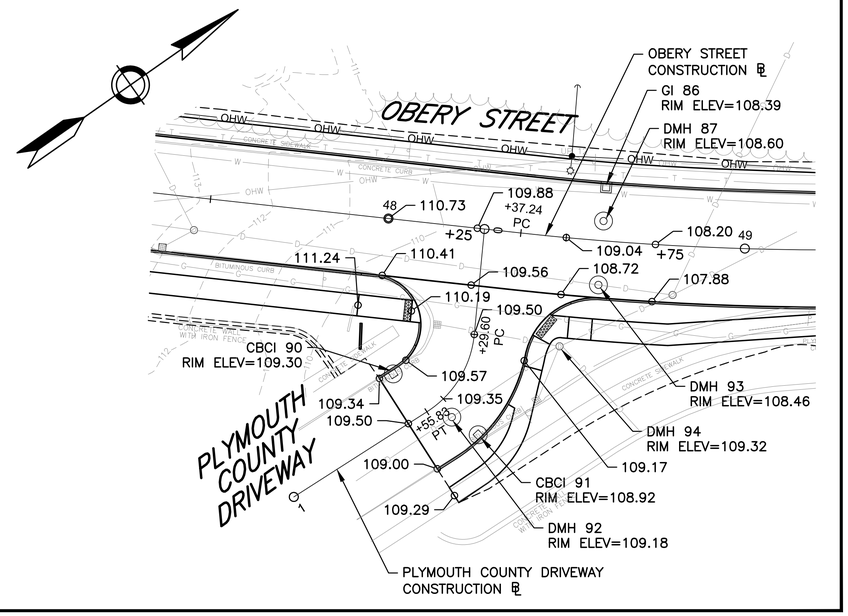
+35.76 PT

2.0%

GRADING NOTES:

48–1) PROPOSED ELEVATIONS LOCATED AT CURBLINE REFER TO THE PAVEMENT ELEVATION.

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



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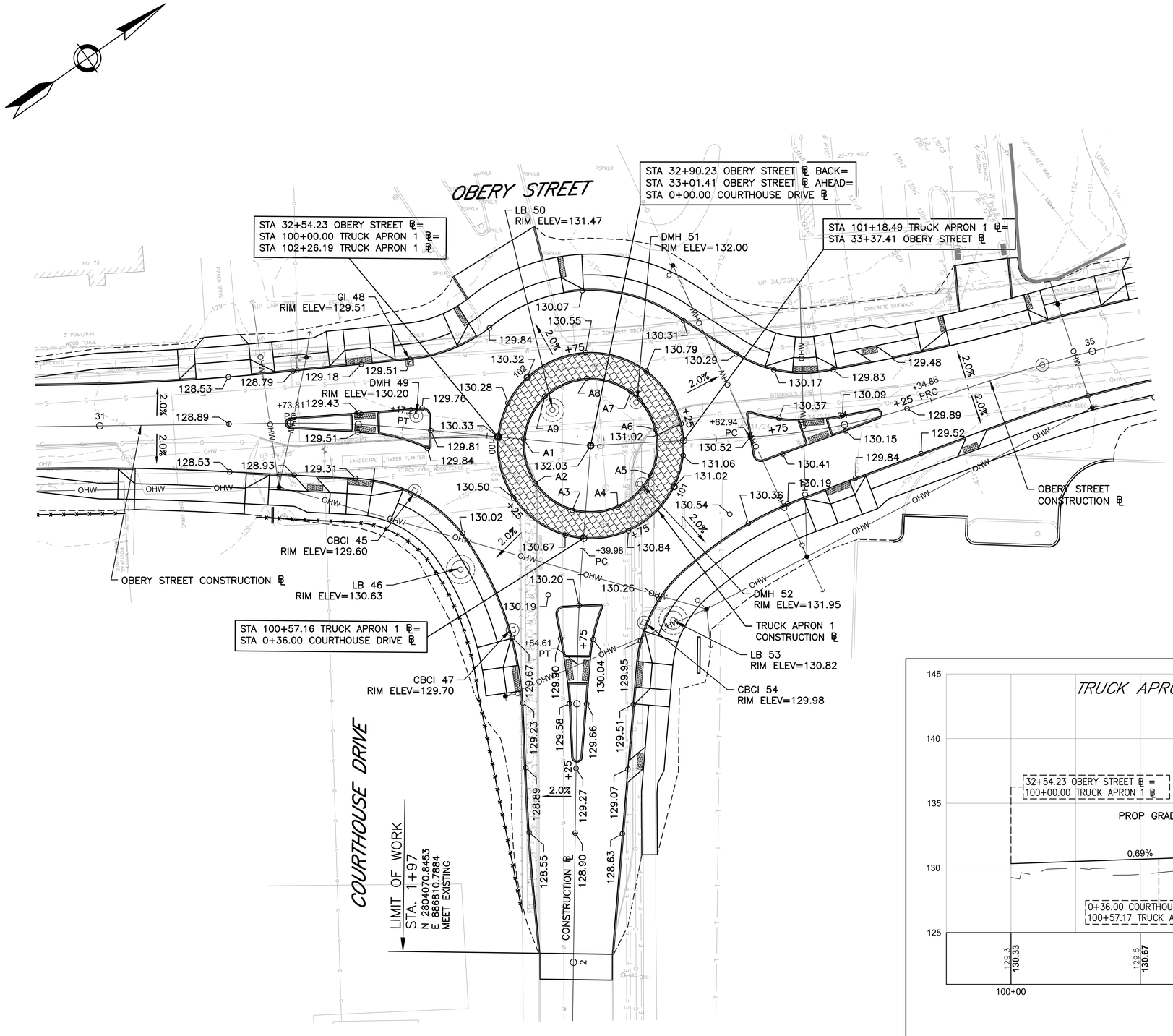
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	49	120
PROJECT FILE NO.	606264		

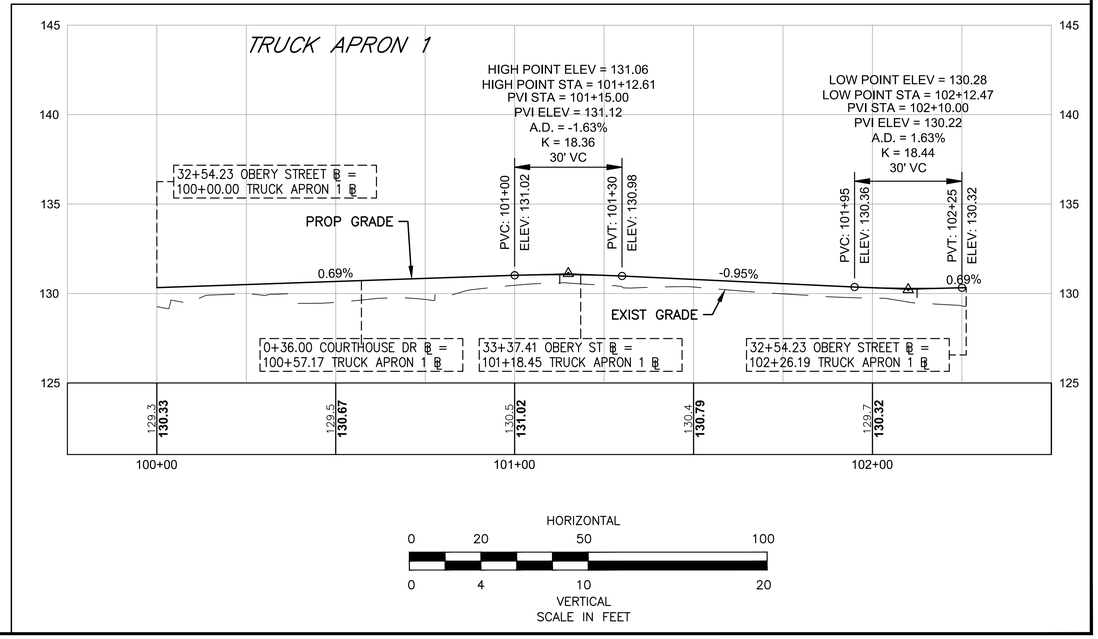
GRADING PLAN



PROPOSED TRUCK APRON ELEVATIONS				
LABEL	STATION	OFFSET	ELEVATION (BOTTOM OF CURB)	ELEVATION (TOP OF CURB)
A1	100+00.00	10.00' LT	130.84	131.34
A2	100+25.00	10.00' LT	131.01	131.51
A3	100+50.00	10.00' LT	131.18	131.68
A4	100+75.00	10.00' LT	131.35	131.85
A5	101+00.00	10.00' LT	131.53	132.03
A6	101+25.00	10.00' LT	131.53	132.03
A7	101+50.00	10.00' LT	131.30	131.80
A8	101+75.00	10.00' LT	131.06	131.56
A9	102+00.00	10.00' LT	130.83	131.33

GRADING NOTES:

49–1) PROPOSED ELEVATIONS LOCATED AT CURBLINE REFER TO THE PAVEMENT ELEVATION.



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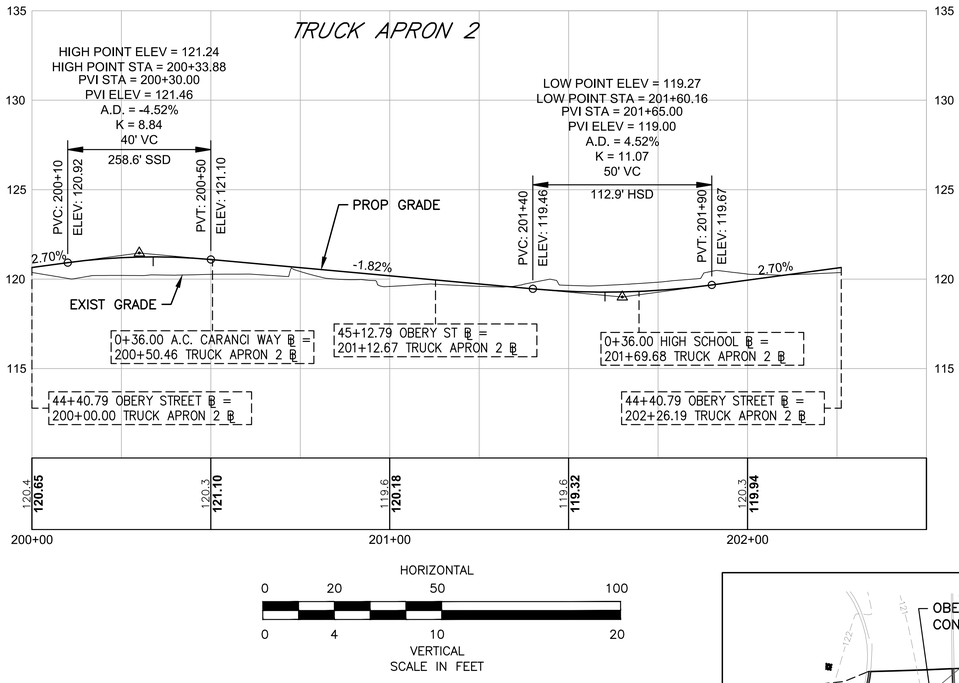
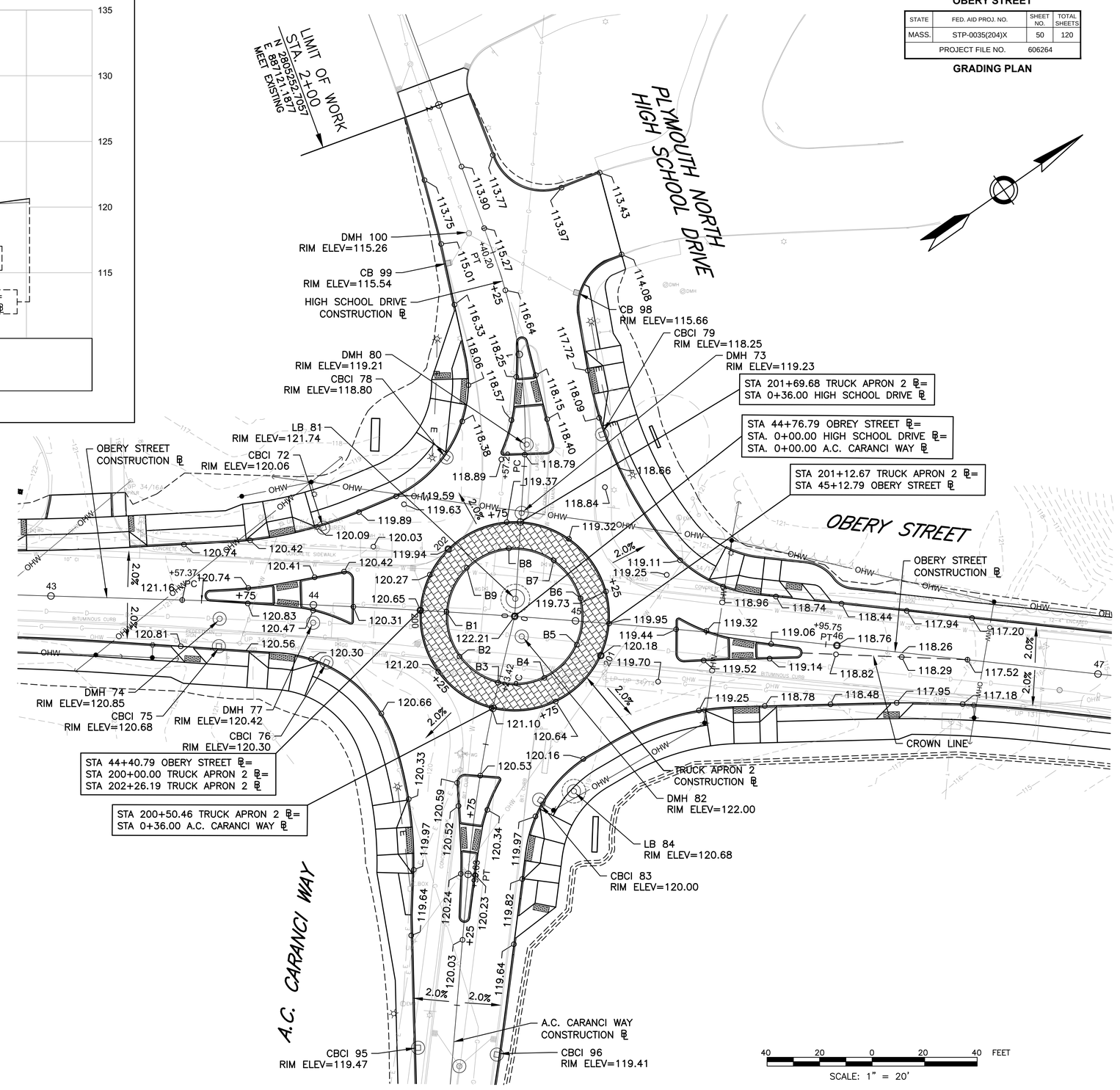


GRADING NOTES:

50–1) PROPOSED ELEVATIONS LOCATED AT CURBLINE REFER TO THE PAVEMENT ELEVATION.

PROPOSED TRUCK APRON ELEVATIONS				
LABEL	STATION	OFFSET	ELEVATION (BOTTOM OF CURB)	ELEVATION (TOP OF CURB)
B1	200+00.00	10.00' LT	121.16	121.66
B2	200+25.00	10.00' LT	121.71	122.21
B3	200+50.00	10.00' LT	121.61	122.11
B4	200+75.00	10.00' LT	121.15	121.65
B5	201+00.00	10.00' LT	120.69	121.19
B6	201+25.00	10.00' LT	120.24	120.74
B7	201+50.00	10.00' LT	119.83	120.33
B8	201+75.00	10.00' LT	119.88	120.38
B9	202+00.00	10.00' LT	120.45	120.95



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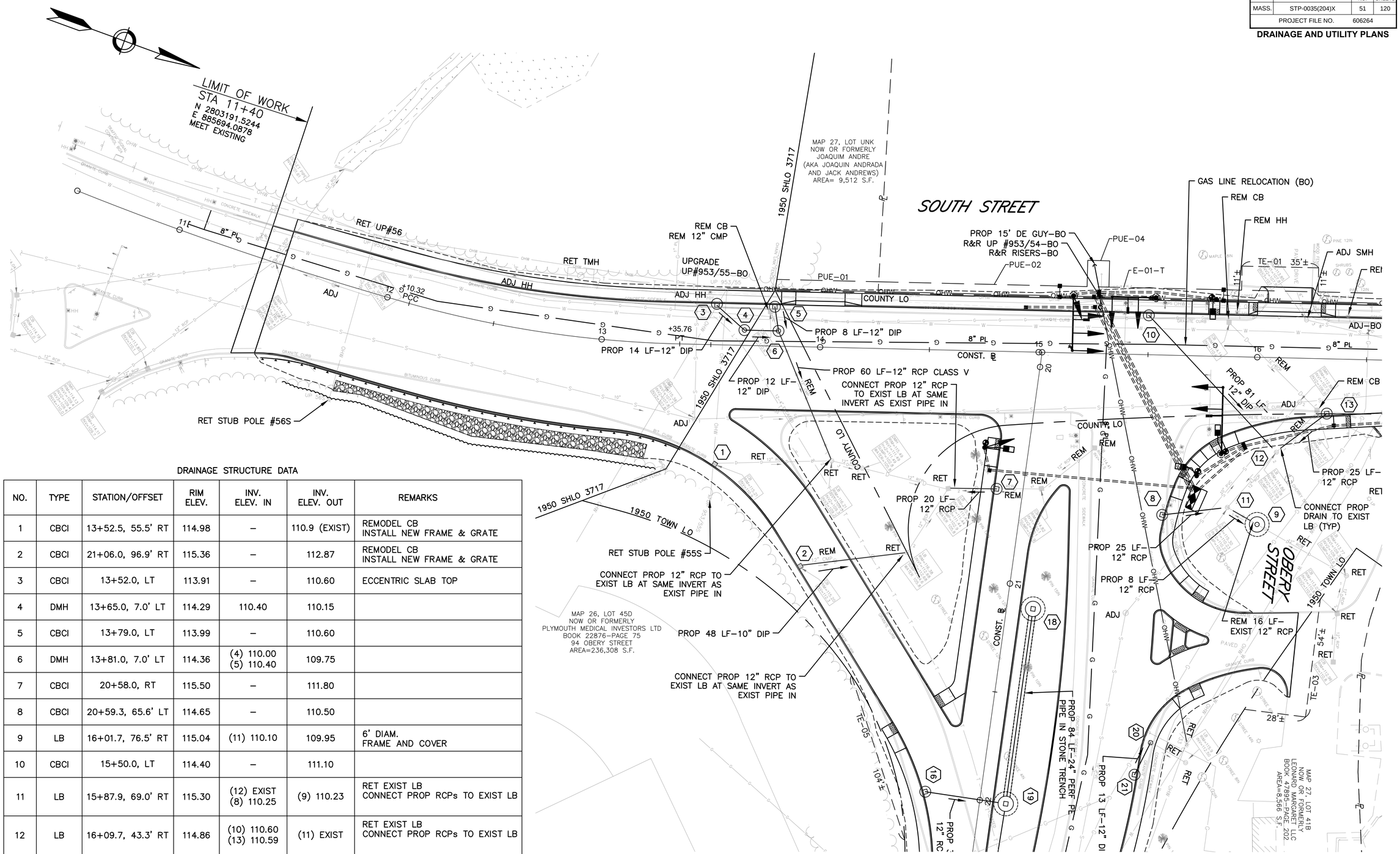
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	51	120
PROJECT FILE NO.	606264		

DRAINAGE AND UTILITY PLANS



DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
1	CBCI	13+52.5, 55.5' RT	114.98	–	110.9 (EXIST)	REMODEL CB INSTALL NEW FRAME & GRATE
2	CBCI	21+06.0, 96.9' RT	115.36	–	112.87	REMODEL CB INSTALL NEW FRAME & GRATE
3	CBCI	13+52.0, LT	113.91	–	110.60	ECCENTRIC SLAB TOP
4	DMH	13+65.0, 7.0' LT	114.29	110.40	110.15	
5	CBCI	13+79.0, LT	113.99	–	110.60	
6	DMH	13+81.0, 7.0' LT	114.36	(4) 110.00 (5) 110.40	109.75	
7	CBCI	20+58.0, RT	115.50	–	111.80	
8	CBCI	20+59.3, 65.6' LT	114.65	–	110.50	
9	LB	16+01.7, 76.5' RT	115.04	(11) 110.10	109.95	6' DIAM. FRAME AND COVER
10	CBCI	15+50.0, LT	114.40	–	111.10	
11	LB	15+87.9, 69.0' RT	115.30	(12) EXIST (8) 110.25	(9) 110.23	RET EXIST LB CONNECT PROP RCPs TO EXIST LB
12	LB	16+09.7, 43.3' RT	114.86	(10) 110.60 (13) 110.59	(11) EXIST	RET EXIST LB CONNECT PROP RCPs TO EXIST LB
17						NOT USED
18	LB	21+10.0, 12.0' LT	116.12	110.50	–	6' DIAM. FRAME AND GRATE

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

CONTINUED ON SHEET NO. 52

CONTINUED ON SHEET NO. 53

Jacobs – J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\51-59 Drainage.dwg August 27, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	52	120
PROJECT FILE NO.	606264		

DRAINAGE AND UTILITY PLANS

CONTINUED ON SHEET NO. 51

MAP 27, LOT 29A
NOW OR FORMERLY
PILGRIMS PRIDE CONDOMINIUM TRUST
MASTER DEED BOOK 5375–PAGE 75
AREA=217,800 S.F.

SOUTH STREET

MAP 27, LOT 29C
NOW OR FORMERLY
157 SOUTH STREET PLYMOUTH, LLC
BOOK 30858–PAGE 90
AREA=150,282 S.F.

LIMIT OF WORK
STA. 20+69
N 2804087.3840
E 885462.4656
MEET EXISTING

GAS LINE RELOCATION (BO)
REM CB
REM HH
UE–04
E–01–T
TE–01 35'±
ADJ SMH
REM HH
R&R HYDRANT
PROP 6 LF–6" DI WATER PIPE
PROP 15' GUY–BO
PUE–10
R&R UP#953/53–BO
R&R FIRE ALARM–BO
R&R RISERS–BO
66'±
TE–02 30'±
17'±
E–02–T
TE–28
PROP 15' GUY–BO
PUE–11
TE–29
21'±
48'±
ADJ–BO
ADJ
ADJ WG (6)
8" PL
+22.41 PC
CONST B
R&R UP#1216/6–BO
R&R RISERS–BO
REMOD SMH
R&R UP#953/52–BO
8" PL
+26.07 PCC
COUNTY LO
RET
PROP 81 LF 12" DIP
REM
REM CB
PROP 25 LF–12" RCP
CONNECT PROP DRAIN TO EXIST LB (TYP)
32'±
44'± TE–04
CANOPY
GAS PUMPS
FUEL DELIVERY AREA
OVERHEAD CANOPY
30'±
18'±
TE–27 50'±
R&R UP#953/51–BO
PROP 11 LF–12" RCP
PROP 15' DE GUY–BO
PROP 10' SW GUY–BO
1950 TOWN LO
OBERY STREET
REM 16 LF–EXIST 12" RCP
TE–03
54'±
28'±
MAP 27, LOT 42L
NOW OR FORMERLY
LEONARD MARGARET LLC
BOOK 47895–PAGE 202
164 SOUTH STREET
AREA=92,217 S.F.
MAP 27, LOT 42K
NOW OR FORMERLY
JJEC DEVELOPMENT LLC
BOOK 47895–PAGE 221
160 SOUTH STREET
AREA=46,632 S.F.
MAP 27, LOT 41B
NOW OR FORMERLY
LEONARD MARGARET LLC
BOOK 47895–PAGE 202
AREA=81,306 S.F.

CONTINUED ON SHEET NO. 53

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

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
13	CBCI	16+32.4, 26.0' RT	113.38	–	110.95	
14	CBCI	19+67.8, 21.0' RT	110.58	–	106.40	
15	LB	19+59.3, 38.3' RT	111.30	106.15	–	6' DIAM. FRAME AND COVER

Jacobs - J:\2007 Projects\070013.209\CAD\Civil\Final August 2018\51-59_Drainage.dwg, August 27, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	53	120
PROJECT FILE NO.	606264		

DRAINAGE AND UTILITY PLANS

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
22	DMH	23+90.0, 0.0' LT	117.82	(23) 113.25 (24) 114.25	113.00	
23	CBCI	24+00.0, RT	117.58	–	113.50	
24	DMH	23+98.5, 17.0' LT	117.65	114.75	114.50	4' SUMP
25	GICI	24+00, LT	117.49	–	115.07	

CONTINUED ON SHEET NOS. 51 & 52

CONTINUED ON SHEET NO. 54

MAP 27, LOT 41B
NOW OR FORMERLY
LEONARD MARGARET LLC
BOOK 47895–PAGE 202
AREA=8,566 S.F.

MAP 27, LOT 41
NOW OR FORMERLY
COMMONWEALTH OF MASSACHUSETTS
DEPT. OF PUBLIC WORKS
BOOK 2673–PAGE 212
81 OBERY STREET
AREA=159,713 S.F.

MAP 26, LOT 45D
NOW OR FORMERLY
PLYMOUTH MEDICAL INVESTORS LTD
BOOK 22876–PAGE 75
94 OBERY STREET
AREA=236,308 S.F.

OBERY STREET

PROP 13 LF–12" DIP

PROP 84 LF–24" PERF PE PIPE IN STONE TRENCH

PROP 85 LF–12" RCP

PROP 37 LF–12" DIP

PROP 97 LF–12" RCP

PROP 34 LF–12" RCP CLASS V

PROP 5 LF–12" DIP

PROP 16 LF–12" DIP

PROP 14 LF–12" RCP CLASS V

R&R HYDRANT

PROP 16 LF–6" DI WATER PIPE

PROP 15' GUY–BO

ADJ TMH–BO

R&R UP#34/30–BO

UPGRADE UP–BO

PROP 12 LF–12" RCP CLASS

PROP 16 LF–12"

PROP 12 LF–1

PROP 10 LF–12" RCP CLASS V

PROP 13 LF–12" RCP CLASS V

PROP 7 LF–12" RCP CLASS V

PROP 21 LF–12" RCP

PROP 15' SW GU

PROP 39 L

MAP 26, LOT
NOW OR FOR
84 OBER
BOOK 473
AREA=2

40' ACCESS EASEMENT

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
16	CBCI	22+00.0, 26.2' RT	116.21	–	112.00	
19	LB	22+00.0, 12.0' LT	116.88	(16) 111.50 (102) 111.25	111.00	6' DIAM FRAME AND GRATE
20	CIT	21+63.2, 73.7' LT	116.20	112.60	112.60	CIT FROM CB TO MH NEW FRAME & COVER
21	CBCI	21+78.8, 69.5' LT	115.81	–	112.75	ECCENTRIC SLAB TOP
101	CBCI	22+90.0, 51.8' LT	116.58	–	112.50	
102	DMH	22+90.0, 10.0' LT	117.57	(22) 112.25 (101) 112.25	112.00	

40 20 0 20 40 FEET

SCALE: 1" = 20'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\51-59 Drainage.dwg August 27, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	54	120
PROJECT FILE NO.	606264		

DRAINAGE AND UTILITY PLANS

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
26	CB	27+30.0, LT	118.88	–	114.75	
27	DMH	27+25.0, 0.00' LT	119.23	(26) 114.50 (32) 114.25	114.15	
28	DMH	27+20.0, 12.2' RT	119.50	(27) 114.00 (30) 114.50	113.90	
29	LB	27+17.0, 30.0' RT	119.25	113.75	113.75	6' DIAM FRAME AND COVER
30	CBCI	27+30.0, RT	119.36	–	114.75	
31	CB	27+50.0, LT	118.83	–	114.75	ECCENTRIC SLAB TOP
32	DMH	27+45.0, 0.0' LT	119.16	(31) 114.50 (34) 114.50	114.40	

CONTINUED ON SHEET NO. 53

CONTINUED ON SHEET NO. 55

UPGRADE UP–BO
PROP 12 LF–12" RCP CLASS V
PROP 16 LF–12" RCP CLASS V
PROP 12 LF–12" RCP CLASS V
PROP 14 LF–12" RCP CLASS V
PROP 10 LF– 12" RCP CLASS V
PROP 36 LF– 12" RCP CLASS V
REMOD SMH
R&R UP#34/29–BO R&R RISERS–BO
PROP 9 LF–12" RCP
PROP 97 LF–12" RCP
PROP 13 LF–12" RCP CLASS V
PROP 7 LF– 12" RCP CLASS V
PROP 21 LF–12" RCP
PROP 15' SW GUY–BO
PROP 39 LF–12" RCP
PROP 20 LF–12" RCP
PROP 19 LF– 12" RCP
PROP UP #34/28–BO
PROP 15' GUY–BO
PROP 30 LF–12" RCP CLASS V
PROP 141 LF–12" RCP R&R UP#34/27–BO
R&R HYDRANT
PROP 16 LF–6" DI WATER PIPE
PROP 5 LF–12" RCP
PROP 25 LF–12" DIP
PROP 7 LF–12" RCP
PROP 18 LF–12" DIP
ADJ GG–BO
1950 TOWN LO
REMOD EMH–BO
R&R UP#34/25–BO
R&R ELECTRIC SERVICE RISER (ITEM 826.7)
PROP 31 LF–12" RCP
PROP 26 LF–12" RCP
PROP STUB POLE #34/25S
W/ 10' SW GUY–BO
ADJ GG–BO
PROP WATER SE
OBERY STREET
COURTHOUSE DRIVE
LIMIT OF WORK
STA. 2+07
N 2804065.0004
E 886818.9024
MEET EXISTING

MAP 27, LOT 43E
NOW OR FORMERLY
NANCY REALTY TRUST
BOOK 34150–PAGE 83
73 OBERY STREET
AREA=15,890 S.F.

MAP 27, LOT 41
NOW OR FORMERLY
COMMONWEALTH OF MASSACHUSETTS
DEPT. OF PUBLIC WORKS
BOOK 2673–PAGE 212
81 OBERY STREET
AREA=159,713 S.F.

MAP 27, LOT 43F
NOW OR FORMERLY
SOUTH SHORE COMMUNITY ACTION
BOOK 41583–PAGE 85
71 OBERY STREET
AREA=122,827 S.F.

MAP 26, LOT 45C
NOW OR FORMERLY
84 OBERY LLC
BOOK 47371–PAGE 144
AREA=206,686 S.F.

MAP 26, LOT 44–5
NOW OR FORMERLY
INHABITANTS OF
COUNTY OF PLYMOUTH
52 OBERY STREET
LC CERT. NO. 225
AREA=4,775,766 S.F.

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
33	DMH	27+40.3, 19.5' RT	119.17	113.35	113.25	
34	CBCI	27+53.7, RT	119.31	–	114.75	
35	CIT	27+82.9, 20.5' LT	119.46	112.6 (EXIST)	112.4 (EXIST)	CIT FROM CB TO DMH NEW FRAME & COVER
36	DMH	27+81.7, 19.5' RT	119.93	(35) 112.00 (33) 113.00 (37) 114.50	111.25	
36A	FES	27+86.6, 40.4' RT	–	–	111.00	STONE FOR PIPE ENDS
37	DMH	28+78.7, 19.5' RT	120.81	115.50	115.25	

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
38	CBCI	28+88.0, RT	120.99	–	117.00	
39	DMH	29+00, 19.5' RT	121.80	(38) 116.75 (40) 116.75 (42) 116.75	116.50	
40	CBCI	29+00.0, LT	121.01	–	117.00	
41	LB	29+00.0, 29.0' RT	121.25	116.25	116.25	6' DIAM FRAME AND COVER
42	DMH	30+44.5, 12.0' RT	126.59	(43) 123.00 (44) 122.00	121.75	
43	CBCI	30+55.0, LT	126.84	–	123.25	ECCENTRIC SLAB TOP
44	CBCI	30+55.0, RT	126.84	–	122.25	

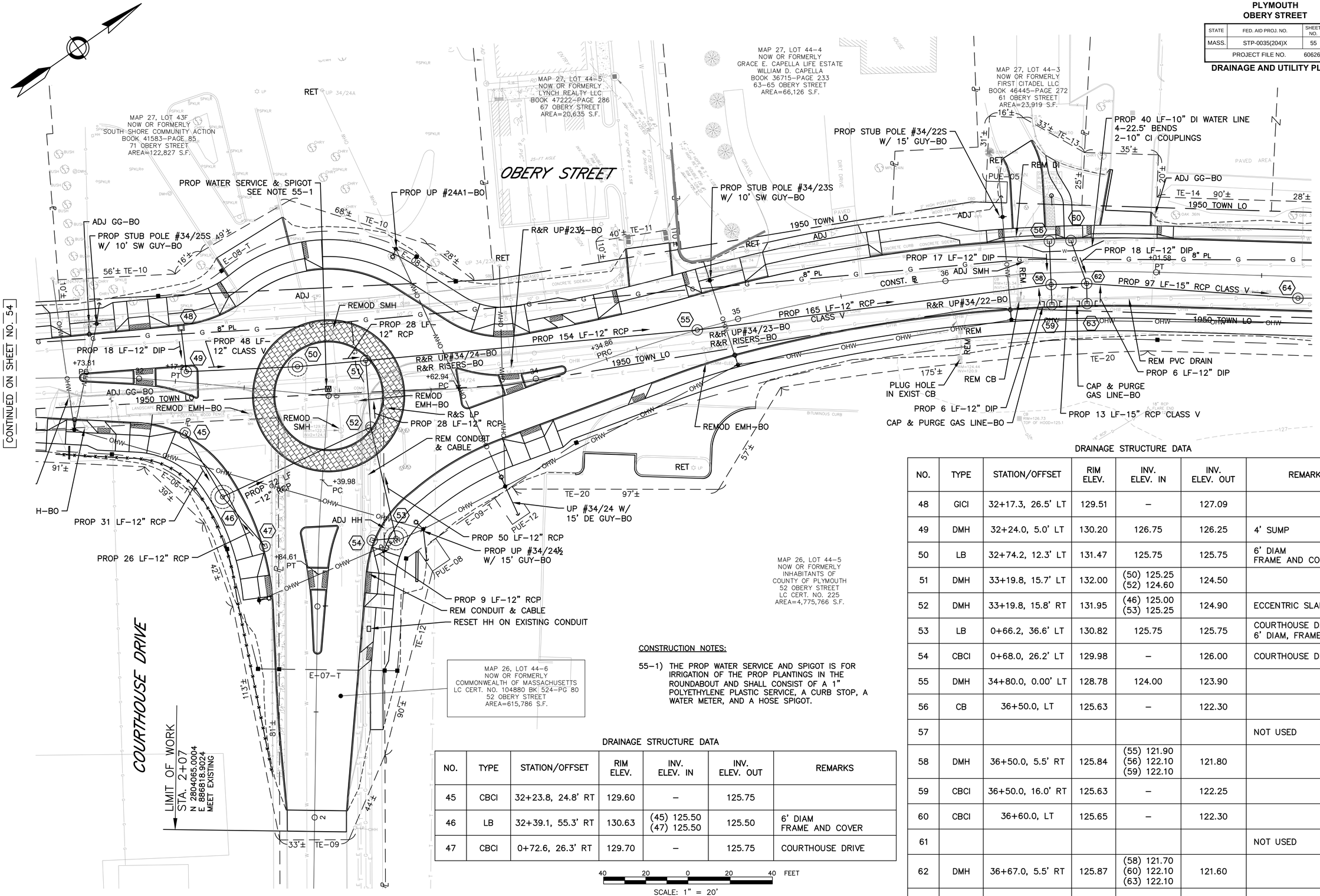
40 20 0 20
SCALE: 1" = 20'

Jacobs - J:\2007 Projects\070013.208\CAD\Civil\Final August 2018\51-59_Drainage.dwg August 27, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	55	120
PROJECT FILE NO.	606264		

DRAINAGE AND UTILITY PLANS



CONSTRUCTION NOTES:

55-1) THE PROP WATER SERVICE AND SPIGOT IS FOR IRRIGATION OF THE PROP PLANTINGS IN THE ROUNDABOUT AND SHALL CONSIST OF A 1" POLYETHYLENE PLASTIC SERVICE, A CURB STOP, A WATER METER, AND A HOSE SPIGOT.

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
45	CBCI	32+23.8, 24.8' RT	129.60	–	125.75	
46	LB	32+39.1, 55.3' RT	130.63	(45) 125.50 (47) 125.50	125.50	6' DIAM FRAME AND COVER
47	CBCI	0+72.6, 26.3' RT	129.70	–	125.75	COURTHOUSE DRIVE

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
48	GICI	32+17.3, 26.5' LT	129.51	–	127.09	
49	DMH	32+24.0, 5.0' LT	130.20	126.75	126.25	4' SUMP
50	LB	32+74.2, 12.3' LT	131.47	125.75	125.75	6' DIAM FRAME AND COVER
51	DMH	33+19.8, 15.7' LT	132.00	(50) 125.25 (52) 124.60	124.50	
52	DMH	33+19.8, 15.8' RT	131.95	(46) 125.00 (53) 125.25	124.90	ECCENTRIC SLAB TOP
53	LB	0+66.2, 36.6' LT	130.82	125.75	125.75	COURTHOUSE DRIVE 6' DIAM, FRAME & COVER
54	CBCI	0+68.0, 26.2' LT	129.98	–	126.00	COURTHOUSE DRIVE
55	DMH	34+80.0, 0.00' LT	128.78	124.00	123.90	
56	CB	36+50.0, LT	125.63	–	122.30	
57						NOT USED
58	DMH	36+50.0, 5.5' RT	125.84	(55) 121.90 (56) 122.10 (59) 122.10	121.80	
59	CBCI	36+50.0, 16.0' RT	125.63	–	122.25	
60	CBCI	36+60.0, LT	125.65	–	122.30	
61						NOT USED
62	DMH	36+67.0, 5.5' RT	125.87	(58) 121.70 (60) 122.10 (63) 122.10	121.60	
63	CBCI	36+67.0, 16.0' RT	125.66	–	122.25	

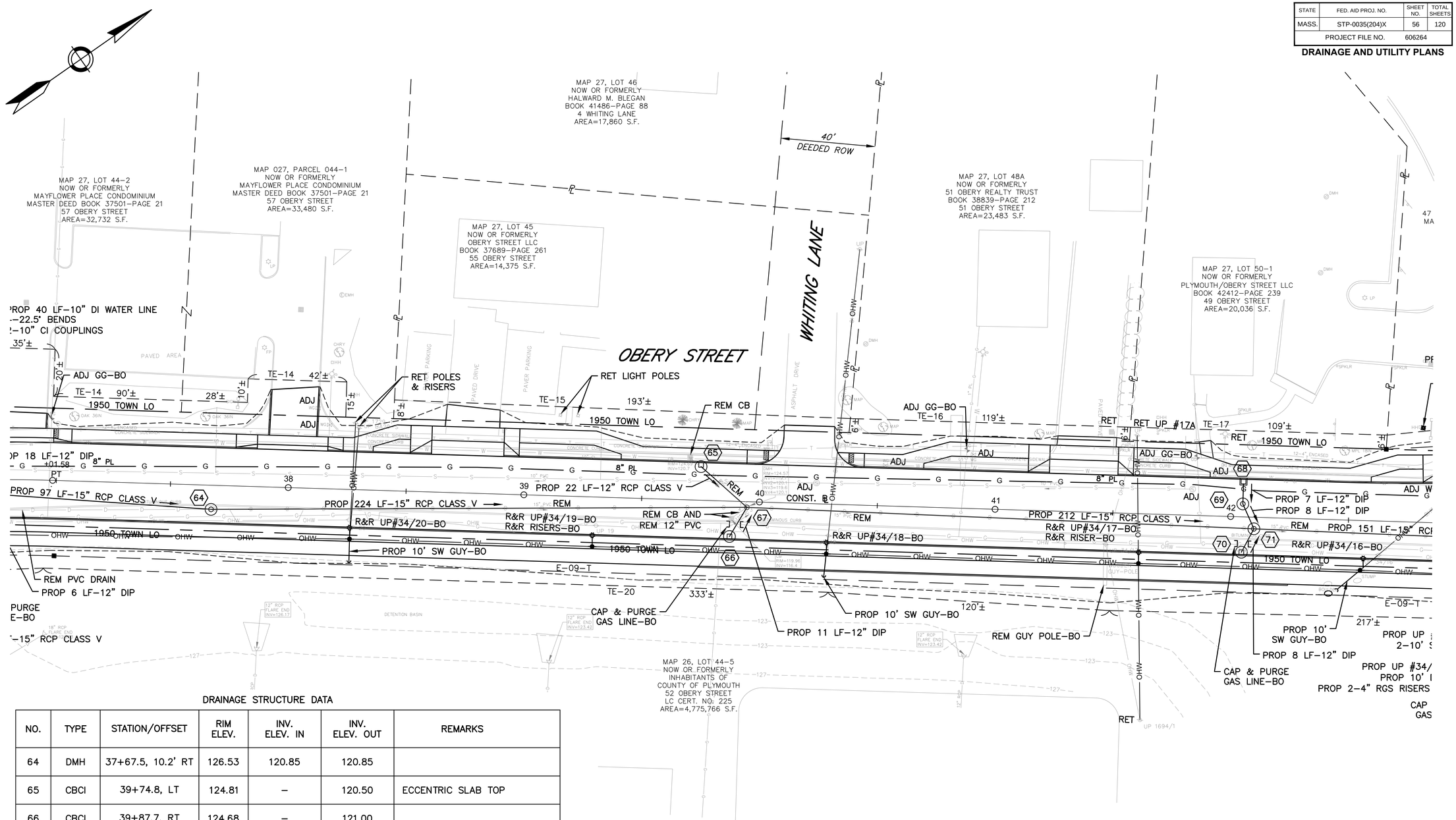
40 20 0 20 40 FEET
SCALE: 1" = 20'

J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\51-59_Drainage.dwg August 27, 2018 Jacobs -

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	56	120
PROJECT FILE NO.	606264		

DRAINAGE AND UTILITY PLANS


MAP 27, LOT 44-2
NOW OR FORMERLY
MAYFLOWER PLACE CONDOMINIUM
MASTER DEED BOOK 37501-PAGE 21
57 OBERY STREET
AREA=32,732 S.F.
MAP 027, PARCEL 044-1
NOW OR FORMERLY
MAYFLOWER PLACE CONDOMINIUM
MASTER DEED BOOK 37501-PAGE 21
57 OBERY STREET
AREA=33,480 S.F.
MAP 27, LOT 46
NOW OR FORMERLY
HALWARD M. BLEGAN
BOOK 41486-PAGE 88
4 WHITING LANE
AREA=17,860 S.F.
40'
DEEDED ROW
MAP 27, LOT 45
NOW OR FORMERLY
OBERY STREET LLC
BOOK 37689-PAGE 261
55 OBERY STREET
AREA=14,375 S.F.
MAP 27, LOT 48A
NOW OR FORMERLY
51 OBERY REALTY TRUST
BOOK 38839-PAGE 212
51 OBERY STREET
AREA=23,483 S.F.
MAP 27, LOT 50-1
NOW OR FORMERLY
PLYMOUTH/OBERY STREET LLC
BOOK 42412-PAGE 239
49 OBERY STREET
AREA=20,036 S.F.
OBERY STREET
WHITING LANE
PROP 40 LF-10" DI WATER LINE
-22.5° BENDS
-10" CI COUPLINGS
35'±
20'±
ADJ GG-BO
TE-14 90'±
28'±
1950 TOWN LO
TE-14 42'±
10'±
15'±
8'±
RET POLES & RISERS
RET LIGHT POLES
TE-15
193'±
REM CB
1950 TOWN LO
ADJ GG-BO
TE-16
119'±
RET
RET UP #17A
TE-17
109'±
RET
1950 TOWN LO
ADJ GG-BO
ADJ
ADJ
ADJ

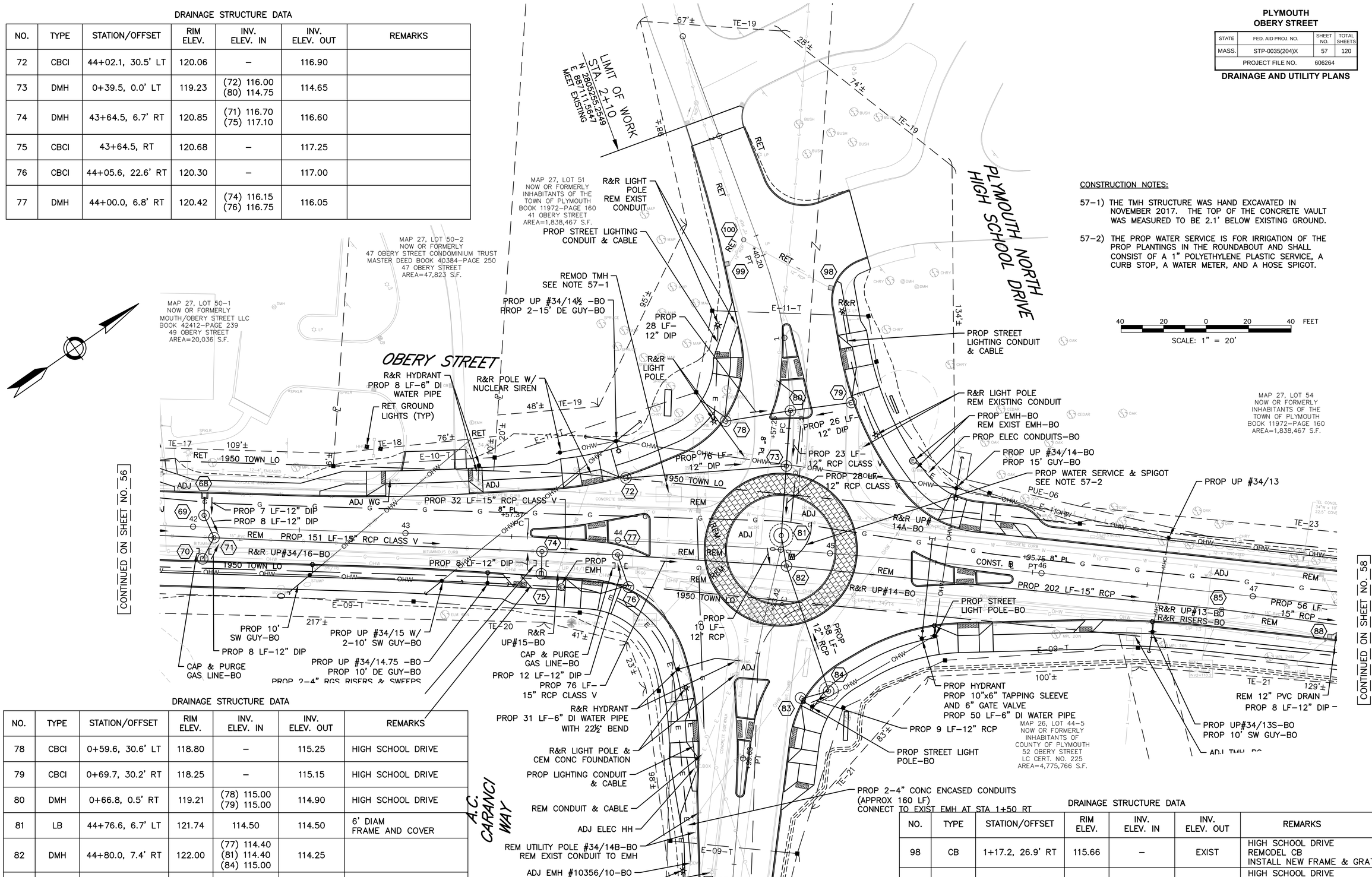
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	57	120
PROJECT FILE NO.	606264		

DRAINAGE AND UTILITY PLANS

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
72	CBCI	44+02.1, 30.5' LT	120.06	–	116.90	
73	DMH	0+39.5, 0.0' LT	119.23	(72) 116.00 (80) 114.75	114.65	
74	DMH	43+64.5, 6.7' RT	120.85	(71) 116.70 (75) 117.10	116.60	
75	CBCI	43+64.5, RT	120.68	–	117.25	
76	CBCI	44+05.6, 22.6' RT	120.30	–	117.00	
77	DMH	44+00.0, 6.8' RT	120.42	(74) 116.15 (76) 116.75	116.05	



CONSTRUCTION NOTES:

57-1) THE TMH STRUCTURE WAS HAND EXCAVATED IN NOVEMBER 2017. THE TOP OF THE CONCRETE VAULT WAS MEASURED TO BE 2.1' BELOW EXISTING GROUND.

57-2) THE PROP WATER SERVICE IS FOR IRRIGATION OF THE PROP PLANTINGS IN THE ROUNDABOUT AND SHALL CONSIST OF A 1" POLYETHYLENE PLASTIC SERVICE, A CURB STOP, A WATER METER, AND A HOSE SPIGOT.

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

CONTINUED ON SHEET NO. 56

CONTINUED ON SHEET NO. 58

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
78	CBCI	0+59.6, 30.6' LT	118.80	–	115.25	HIGH SCHOOL DRIVE
79	CBCI	0+69.7, 30.2' RT	118.25	–	115.15	HIGH SCHOOL DRIVE
80	DMH	0+66.8, 0.5' RT	119.21	(78) 115.00 (79) 115.00	114.90	HIGH SCHOOL DRIVE
81	LB	44+76.6, 6.7' LT	121.74	114.50	114.50	6' DIAM FRAME AND COVER
82	DMH	44+80.0, 7.4' RT	122.00	(77) 114.40 (81) 114.40 (84) 115.00	114.25	
83	CBCI	0+68.5, 25.1' LT	120.00	–	115.75	A.C. CARANCI WAY
84	LB	0+62.3, 36.2' LT	120.68	115.50	115.50	A.C. CARANCI WAY 6' DIAM, FRAME & COVER

CONTINUED ON SHEET NO. 59

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
98	CB	1+17.2, 26.9' RT	115.66	–	EXIST	HIGH SCHOOL DRIVE REMODEL CB INSTALL NEW FRAME & GRATE
99	CB	1+42.4, 18.4' LT	115.54	–	EXIST	HIGH SCHOOL DRIVE REMODEL CB INSTALL NEW FRAME & GRATE
100	DMH	1+50.2, 6.1' LT	115.26	EXIST	EXIST	HIGH SCHOOL DRIVE REMODEL DMH INSTALL NEW FRAME & COVER

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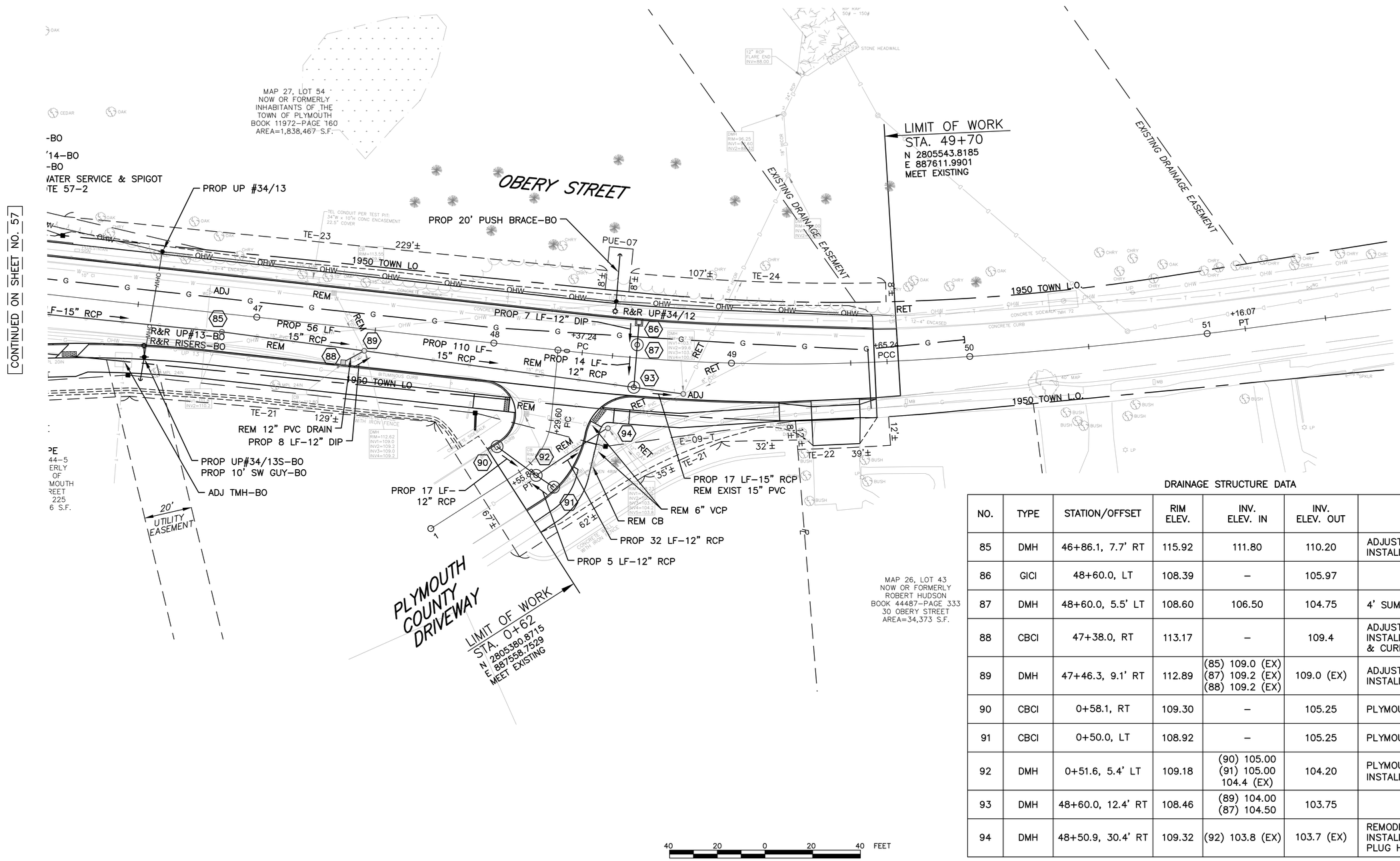
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	58	120
PROJECT FILE NO.	606264		

DRAINAGE AND UTILITY PLANS

CONTINUED ON SHEET NO. 57



DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
85	DMH	46+86.1, 7.7' RT	115.92	111.80	110.20	ADJUST DMH INSTALL NEW FRAME & COVER
86	GICI	48+60.0, LT	108.39	–	105.97	
87	DMH	48+60.0, 5.5' LT	108.60	106.50	104.75	4' SUMP
88	CBCI	47+38.0, RT	113.17	–	109.4	ADJUST CB INSTALL NEW FRAME, GRATE, & CURB INLET
89	DMH	47+46.3, 9.1' RT	112.89	(85) 109.0 (EX) (87) 109.2 (EX) (88) 109.2 (EX)	109.0 (EX)	ADJUST DMH INSTALL NEW FRAME & COVER
90	CBCI	0+58.1, RT	109.30	–	105.25	PLYMOUTH COUNTY DRIVEWAY
91	CBCI	0+50.0, LT	108.92	–	105.25	PLYMOUTH COUNTY DRIVEWAY
92	DMH	0+51.6, 5.4' LT	109.18	(90) 105.00 (91) 105.00 104.4 (EX)	104.20	PLYMOUTH COUNTY DRIVEWAY INSTALL ON EXIST 12" VCP
93	DMH	48+60.0, 12.4' RT	108.46	(89) 104.00 (87) 104.50	103.75	
94	DMH	48+50.9, 30.4' RT	109.32	(92) 103.8 (EX)	103.7 (EX)	REMODEL DMH INSTALL NEW FRAME & COVER PLUG HOLES FROM PIPES REMOVED

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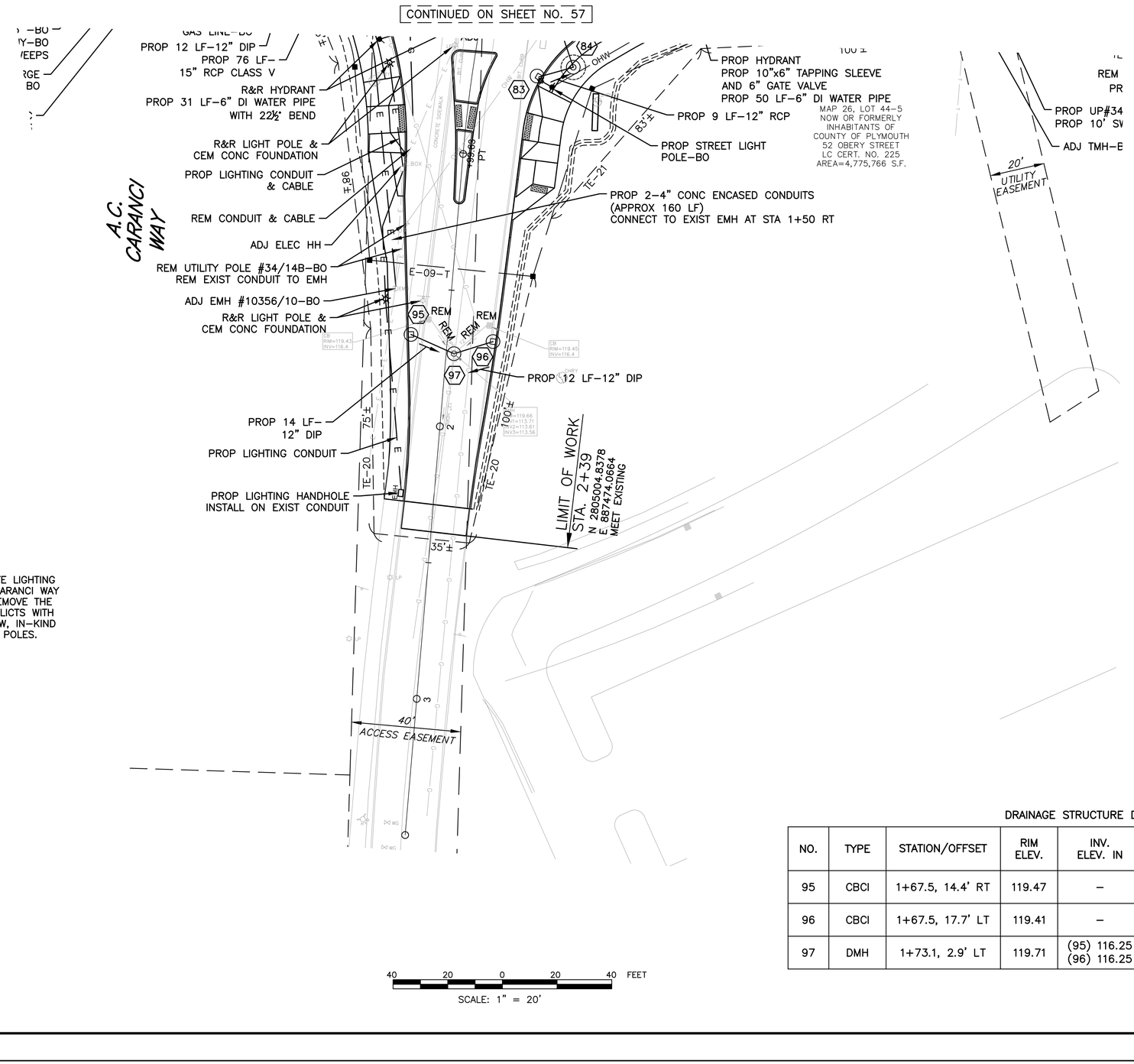
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	59	120
PROJECT FILE NO.	606264		

DRAINAGE AND UTILITY PLANS

CONTINUED ON SHEET NO. 57



40 20 0 20 40 FEET

SCALE: 1" = 20'

CONSTRUCTION NOTES:

59–1) THE LOCATION AND TYPE OF EXISTING SITE LIGHTING CONDUIT FOR LIGHT POLES ALONG A.C. CARANCI WAY IS UNKNOWN. THE CONTRACTOR SHALL REMOVE THE EXISTING CONDUIT AND CABLE THAT CONFLICTS WITH THE PROPOSED WORK AND INSTALL A NEW, IN–KIND SYSTEM TO SERVE THE RELOCATED LIGHT POLES.

DRAINAGE STRUCTURE DATA

NO.	TYPE	STATION/OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
95	CBCI	1+67.5, 14.4' RT	119.47	–	116.40	A.C. CARANCI WAY
96	CBCI	1+67.5, 17.7' LT	119.41	–	116.40	A.C. CARANCI WAY
97	DMH	1+73.1, 2.9' LT	119.71	(95) 116.25 (96) 116.25	116.25 (EX)	A.C. CARANCI WAY REM EXIST DMH

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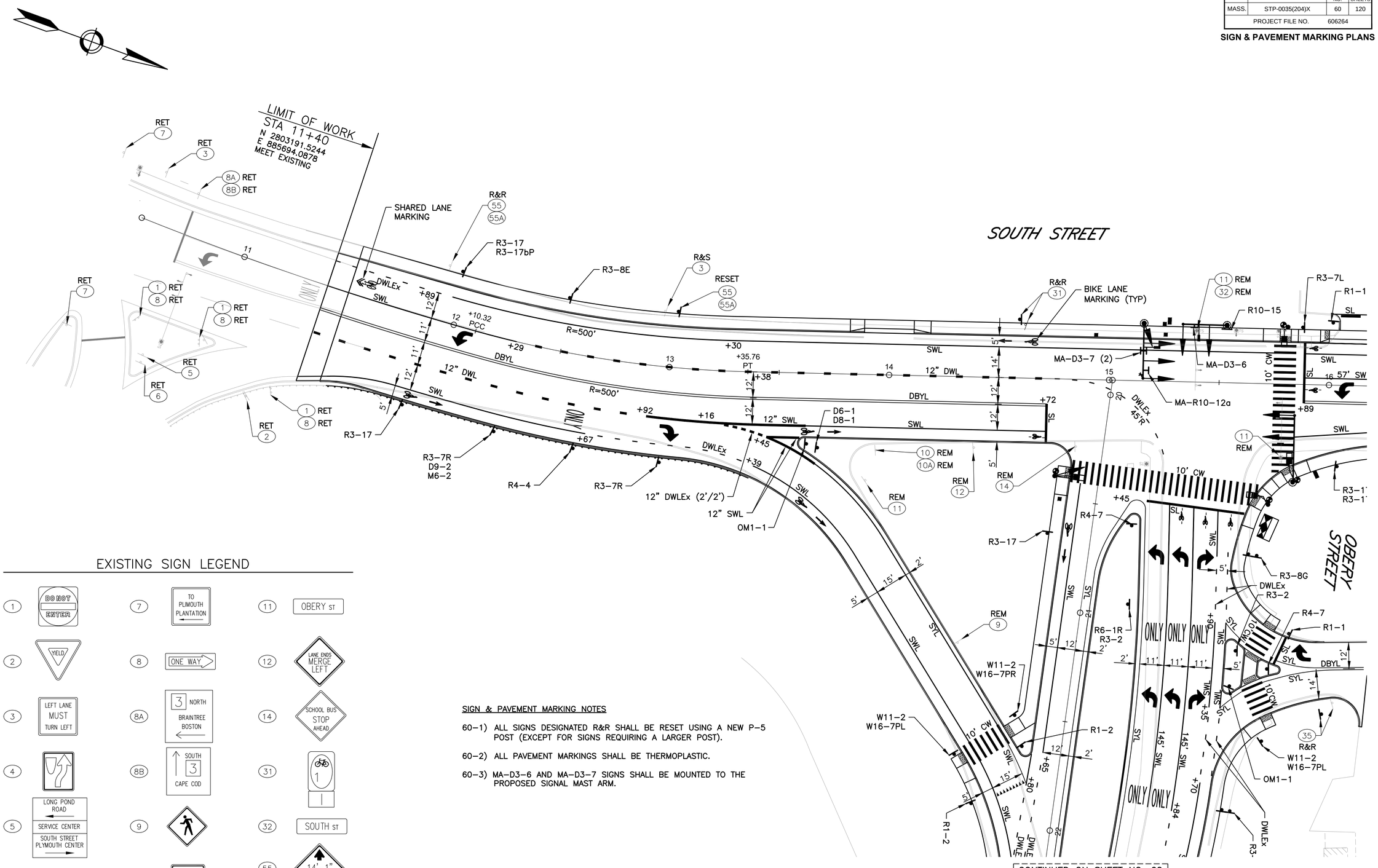
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	60	120
PROJECT FILE NO.	606264		

SIGN & PAVEMENT MARKING PLANS



EXISTING SIGN LEGEND

1	DO NOT ENTER	7	TO PLIMOUTH PLANTATION	11	OBERY ST
2	YIELD	8	ONE WAY	12	LANE ENDS MERGE LEFT
3	LEFT LANE MUST TURN LEFT	8A	3 NORTH BRAINTREE BOSTON	14	SCHOOL BUS STOP AHEAD
4		8B	SOUTH 3 CAPE COD	31	1
5	LONG POND ROAD / SERVICE CENTER / SOUTH STREET PLYMOUTH CENTER	9		32	SOUTH ST
6	NOT USED	10	H	55	14'-1" AHEAD
		10A		55A	

SIGN & PAVEMENT MARKING NOTES

60-1) ALL SIGNS DESIGNATED R&R SHALL BE RESET USING A NEW P-5 POST (EXCEPT FOR SIGNS REQUIRING A LARGER POST).

60-2) ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

60-3) MA-D3-6 AND MA-D3-7 SIGNS SHALL BE MOUNTED TO THE PROPOSED SIGNAL MAST ARM.

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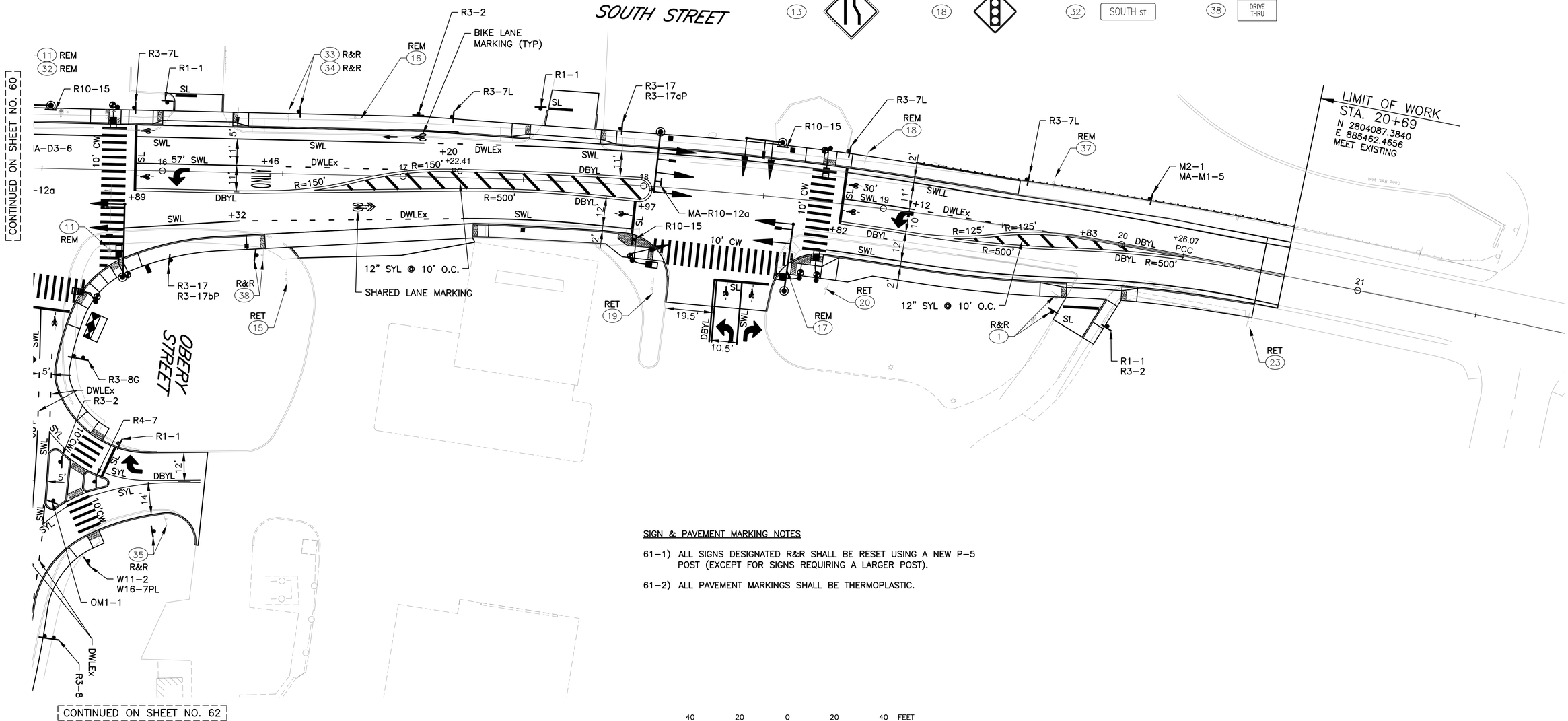
EXISTING SIGN LEGEND

1	DO NOT ENTER	14	SCHOOL BUS STOP AHEAD	19	MOBIL	33	3 NORTH BRAINTREE BOSTON SECOND LEFT
9		15	MAYFLOWER FOOD & SPIRITS STEVENS FLORIST	20	DUNKIN DONUTS	34	SOUTH 3 CAPE COD
11	OBERY ST	16	RIGHT TURN ONLY	23	SPEED LIMIT 30	35	DUNKIN DONUTS DRIVE THRU MAYFLOWER FOOD & SPIRITS
12	LANE ENDS MERGE LEFT	17	LEFT TURN ONLY	31	1	37	JCT 3
13		18		32	SOUTH ST	38	DRIVE THRU

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	61	120
PROJECT FILE NO.	606264		

SIGN & PAVEMENT MARKING PLANS



SIGN & PAVEMENT MARKING NOTES

61–1) ALL SIGNS DESIGNATED R&R SHALL BE RESET USING A NEW P–5 POST (EXCEPT FOR SIGNS REQUIRING A LARGER POST).

61–2) ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

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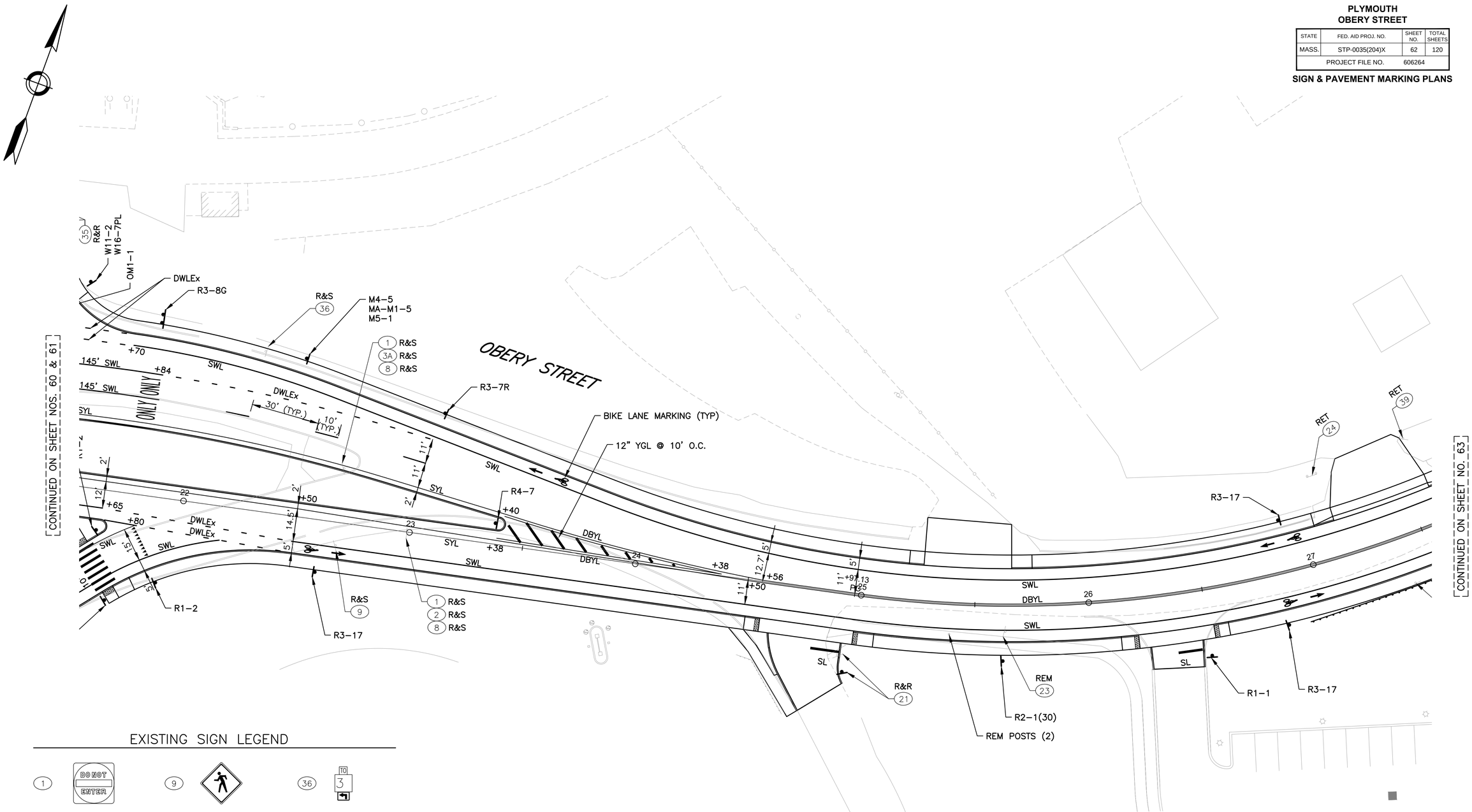
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	62	120
PROJECT FILE NO.	606264		

SIGN & PAVEMENT MARKING PLANS



EXISTING SIGN LEGEND

1	DO NOT ENTER	9		36	TO 3
2	YIELD	21	STOP	39	STATE PROPERTY NO TRESPASSING POLICE TAKE NOTICE
3A	NO TURNS	23	SPEED LIMIT 30		
8	ONE WAY	24	MassDOT MAINTENANCE FACILITY		

SIGN & PAVEMENT MARKING NOTES

62–1) ALL SIGNS DESIGNATED R&R SHALL BE RESET USING A NEW P–5 POST (EXCEPT FOR SIGNS REQUIRING A LARGER POST).

62–2) ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

40 20 0 20 40 FEET

SCALE: 1" = 20'

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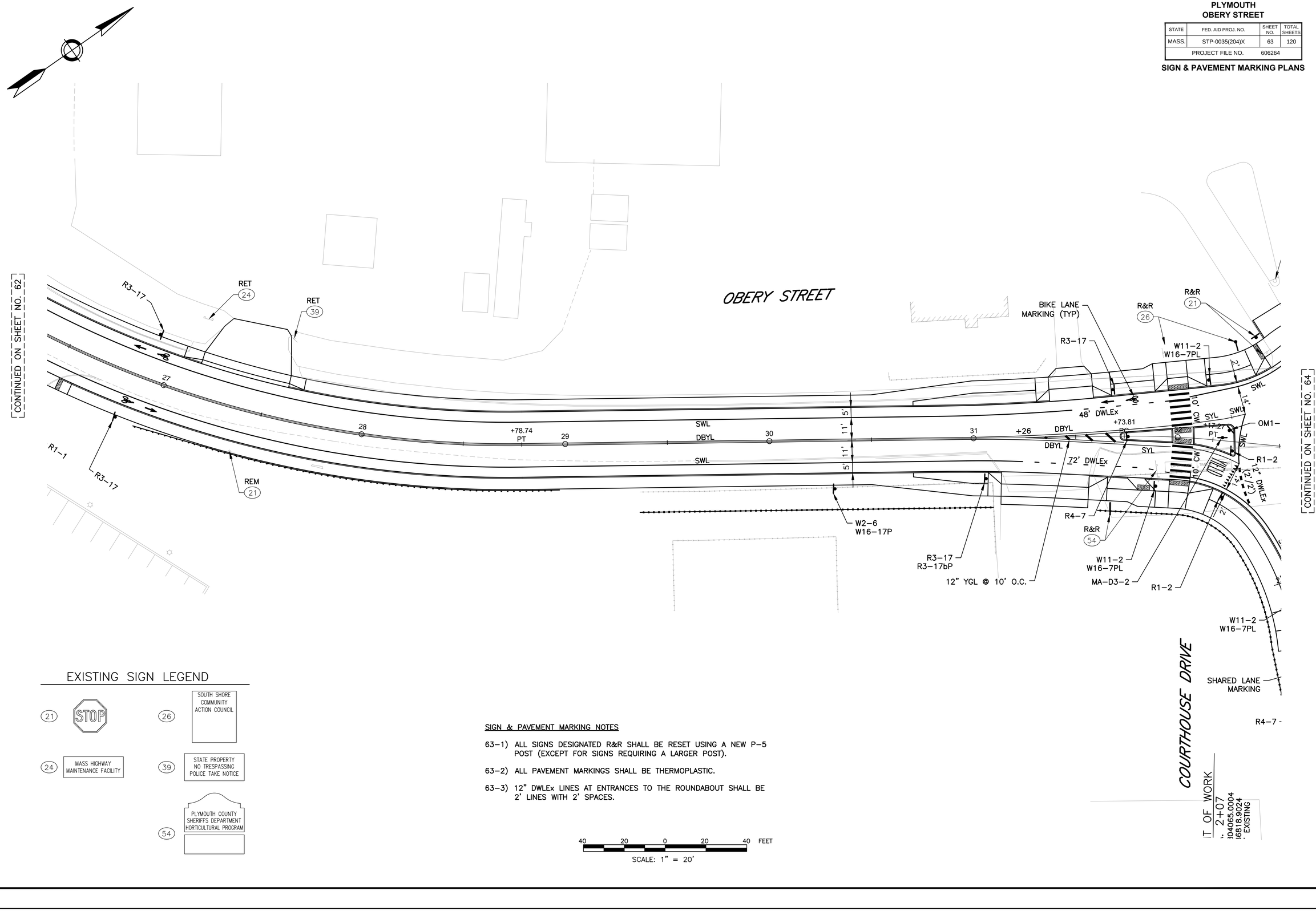
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	63	120
PROJECT FILE NO.	606264		

SIGN & PAVEMENT MARKING PLANS



EXISTING SIGN LEGEND

21	STOP	26	SOUTH SHORE COMMUNITY ACTION COUNCIL
24	MASS HIGHWAY MAINTENANCE FACILITY	39	STATE PROPERTY NO TRESPASSING POLICE TAKE NOTICE
54	PLYMOUTH COUNTY SHERIFF'S DEPARTMENT HORTICULTURAL PROGRAM		

SIGN & PAVEMENT MARKING NOTES

63-1) ALL SIGNS DESIGNATED R&R SHALL BE RESET USING A NEW P-5 POST (EXCEPT FOR SIGNS REQUIRING A LARGER POST).

63-2) ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

63-3) 12" DWLEx LINES AT ENTRANCES TO THE ROUNDABOUT SHALL BE 2' LINES WITH 2' SPACES.

40 20 0 20 40 FEET

SCALE: 1" = 20'

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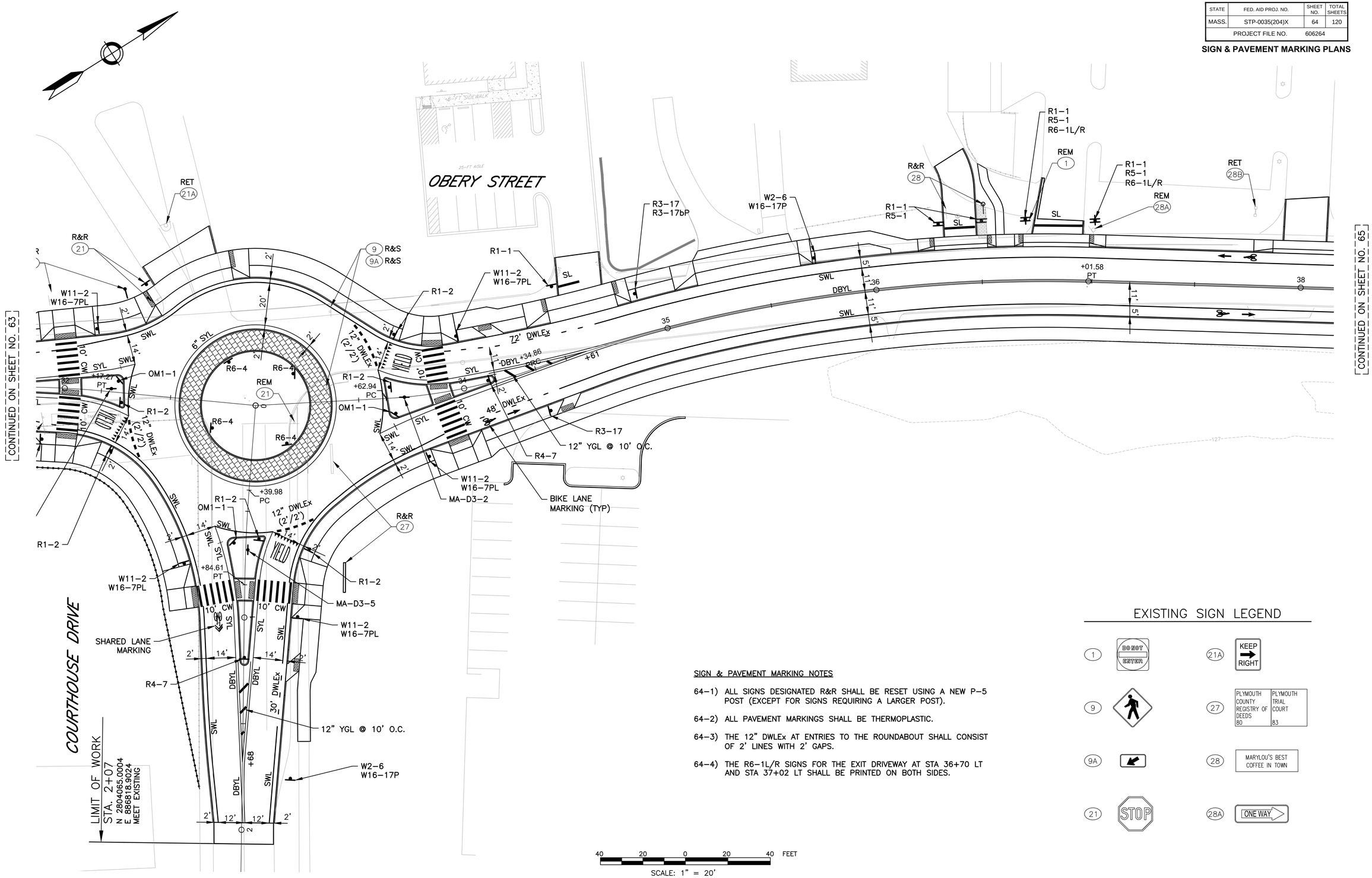
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	64	120
PROJECT FILE NO.	606264		

SIGN & PAVEMENT MARKING PLANS



SIGN & PAVEMENT MARKING NOTES

64-1) ALL SIGNS DESIGNATED R&R SHALL BE RESET USING A NEW P-5 POST (EXCEPT FOR SIGNS REQUIRING A LARGER POST).

64-2) ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

64-3) THE 12" DWLEx AT ENTRIES TO THE ROUNDABOUT SHALL CONSIST OF 2' LINES WITH 2' GAPS.

64-4) THE R6-1L/R SIGNS FOR THE EXIT DRIVEWAY AT STA 36+70 LT AND STA 37+02 LT SHALL BE PRINTED ON BOTH SIDES.

40 20 0 20 40 FEET

SCALE: 1" = 20'

EXISTING SIGN LEGEND

1	DO NOT ENTER	21A	KEEP RIGHT
9		27	PLYMOUTH COUNTY REGISTRY OF DEEDS 80 / PLYMOUTH TRIAL COURT 83
9A		28	MARYLOU'S BEST COFFEE IN TOWN
21	STOP	28A	ONE WAY

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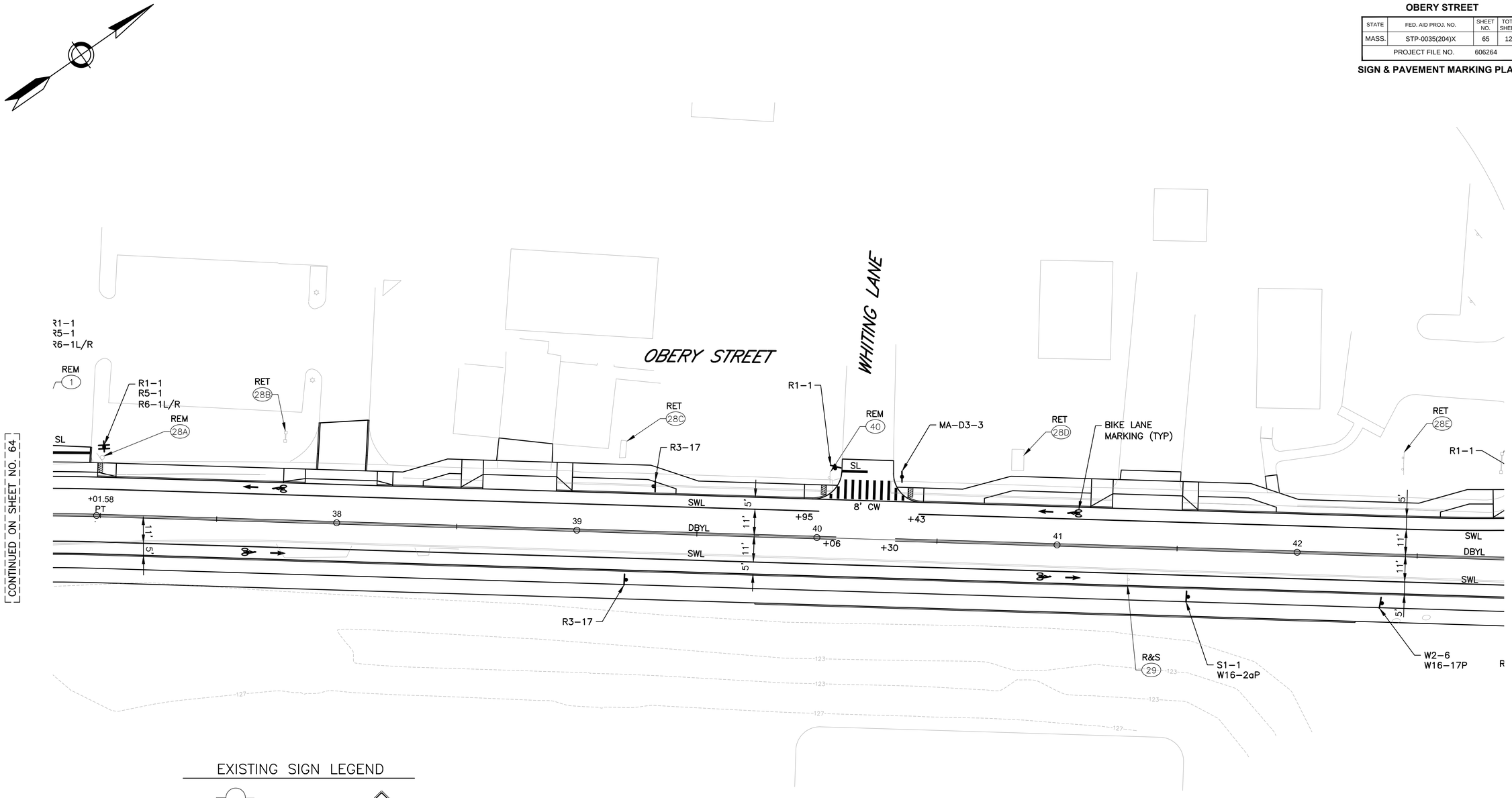
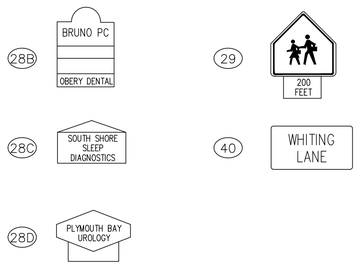
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	65	120
PROJECT FILE NO.	606264		

SIGN & PAVEMENT MARKING PLANS



EXISTING SIGN LEGEND



40 20 0 20 40 FEET

SCALE: 1" = 20'

SIGN & PAVEMENT MARKING NOTES

65-1) ALL SIGNS DESIGNATED R&R SHALL BE RESET USING A NEW P-5 POST (EXCEPT FOR SIGNS REQUIRING A LARGER POST).

65-2) ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

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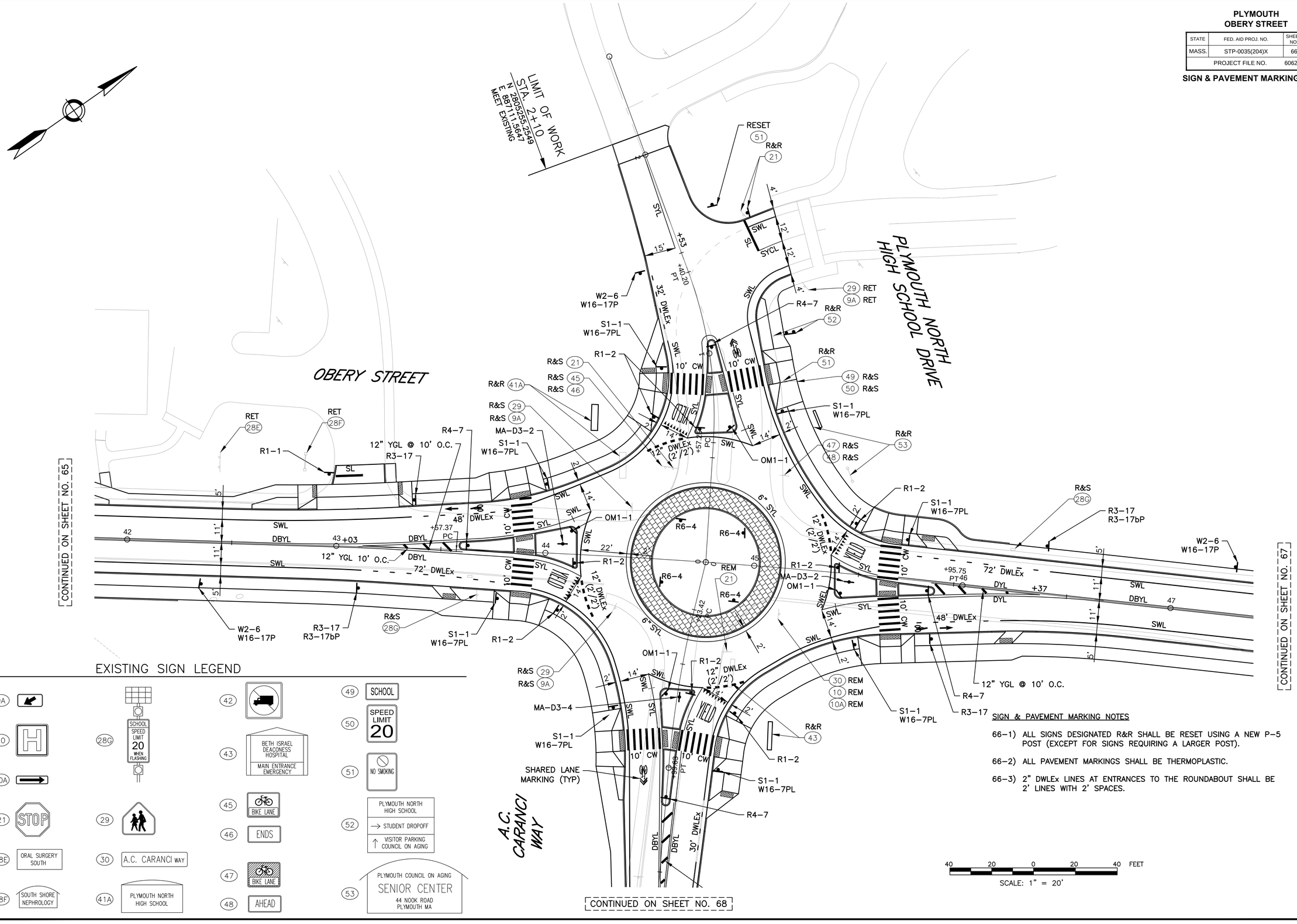
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	66	120
PROJECT FILE NO.	606264		

SIGN & PAVEMENT MARKING PLANS



EXISTING SIGN LEGEND

SCALE: 1" = 20'

SIGN & PAVEMENT MARKING NOTES

66-1) ALL SIGNS DESIGNATED R&R SHALL BE RESET USING A NEW P-5 POST (EXCEPT FOR SIGNS REQUIRING A LARGER POST).

66-2) ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

66-3) 2" DWLEx LINES AT ENTRANCES TO THE ROUNDABOUT SHALL BE 2' LINES WITH 2' SPACES.

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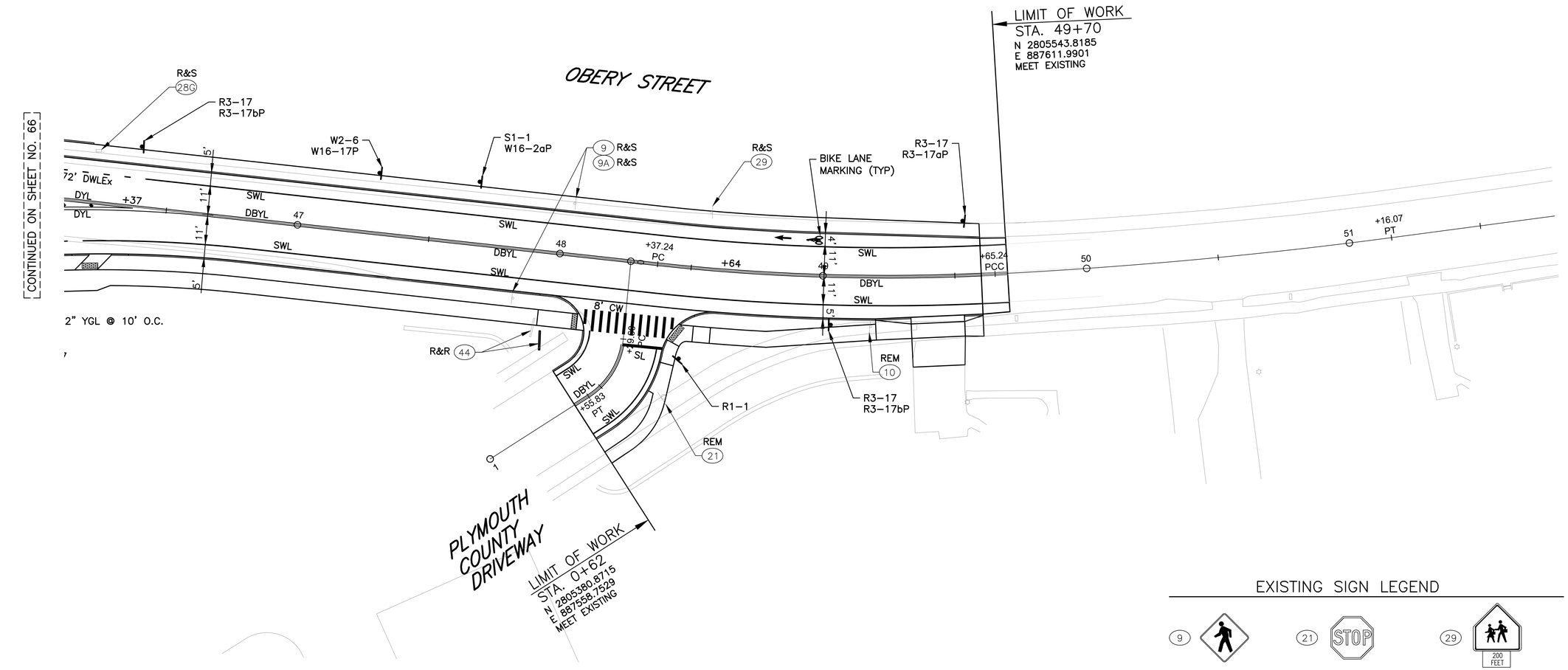
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	67	120
PROJECT FILE NO.	606264		

SIGN & PAVEMENT MARKING PLANS



SIGN & PAVEMENT MARKING NOTES

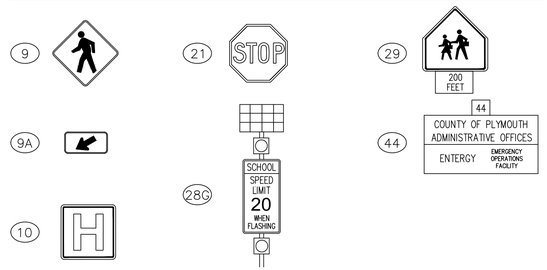
67-1) ALL SIGNS DESIGNATED R&R SHALL BE RESET USING A NEW P-5 POST (EXCEPT FOR SIGNS REQUIRING A LARGER POST).

67-2) ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

40 20 0 20 40 FEET

SCALE: 1" = 20'

EXISTING SIGN LEGEND



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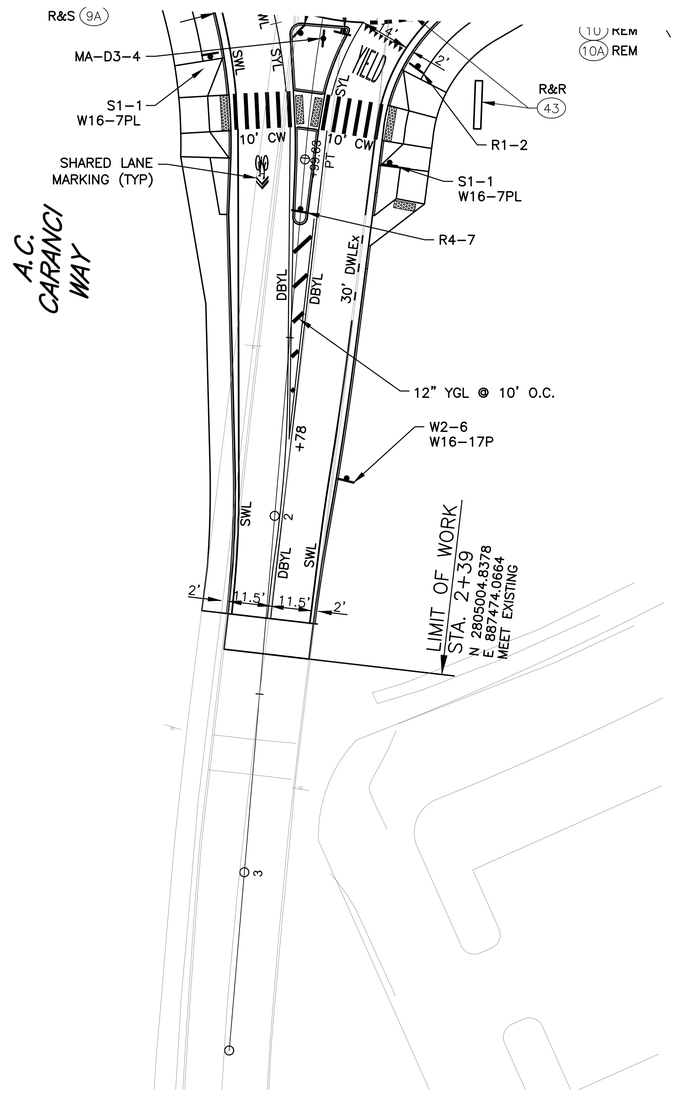
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	68	120
PROJECT FILE NO.	606264		

SIGN & PAVEMENT MARKING PLANS

CONTINUED ON SHEET NO. 66



40 20 0 20 40 FEET

SCALE: 1" = 20'

SIGN & PAVEMENT MARKING NOTES

68-1) ALL SIGNS DESIGNATED R&R SHALL BE RESET USING A NEW P-5 POST (EXCEPT FOR SIGNS REQUIRING A LARGER POST).

68-2) ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

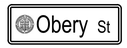
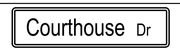
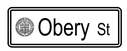
Jacobs - J:\2007 Projects\0770013.205\CAD\Civil\Final August 2018\60-68_TPS.dwg, August 24, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	69	120
PROJECT FILE NO.	606264		

SIGN SUMMARY

PERMANENT TRAFFIC SIGN SUMMARY

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (IN)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH (IN)	HEIGHT (IN)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
OM1-1	18"	18"		–	–	–	9	YELLOW	YELLOW	–	P-5 9 REQ'D	2.25	20.25
MA-D3-2	36"	12"		6"/4"	3" 3"	–	8	GREEN	WHITE	WHITE	P-5 4 REQ'D (SEE NOTE 3)	EACH	EACH
MA-D3-3	42"	12"		6"/4"	3" 3"	–	2	GREEN	WHITE	WHITE	P-5 1 REQ'D (SEE NOTE 3)	EACH	EACH
MA-D3-4	60"	12"		6"/4"	3" 3"	–	2	GREEN	WHITE	WHITE	P-5 1 REQ'D (SEE NOTE 3)	EACH	EACH
MA-D3-5	54"	12"		6"/4"	3" 3"	–	2	GREEN	WHITE	WHITE	P-5 1 REQ'D (SEE NOTE 3)	EACH	EACH
MA-D3-6	72"	18"		12"/8"	6" 6"	–	1	GREEN	WHITE	WHITE	MOUNT ON MAST ARM	EACH	EACH
MA-D3-7	72"	18"		12"/8"	6" 6"	–	2	GREEN	WHITE	WHITE	MOUNT ON MAST ARM	EACH	EACH
D9-2	24"	24"		(1)	(1)	(1)	1	BLUE	WHITE	WHITE	P-5 1 REQ'D	4.00	4.00
MA-M1-5	24"	24"		(2)	(2)	(2)	2	WHITE	BLACK	BLACK	P-5 2 REQ'D	4.00	8.00
M2-1	21"	15"		(1)	(1)	(1)	1	WHITE	BLACK	BLACK	MOUNT W/ MA-M1-5	2.19	2.19
M4-5	24"	12"					1	WHITE	BLACK	BLACK	MOUNT W/ MA-M1-5	2.00	2.00
M5-1	21"	15"					1	WHITE	BLACK	BLACK	MOUNT W/ MA-M1-5	2.19	2.19
M6-2	21"	15"					1	BLUE	WHITE	WHITE	MOUNT W/ D9-2	2.19	2.19
R1-1	30"	30"					13	RED	WHITE	WHITE	P-5 13 REQ'D	6.25	68.75
R1-2	36" x 36" x 36" (TRIANGULAR)						16	RED	WHITE	WHITE	P-5 16 REQ'D	3.90	62.40
R2-1	24"	30"					1	WHITE	BLACK	BLACK	P-5 1 REQ'D	5.00	5.00
R3-2	24"	24"					4	WHITE	BLACK/ RED	BLACK	P-5 3 REQ'D	4.00	16.00
R3-7L	30"	30"					4	WHITE	BLACK	BLACK	P-5 4 REQ'D	6.25	25.00
R3-7R	30"	30"					3	WHITE	BLACK	BLACK	P-5 3 REQ'D	6.25	18.75
R3-8G	48"	30"					2	WHITE	BLACK	BLACK	P-5 4 REQ'D	10.00	20.00
R3-8E	30"	30"					1	WHITE	BLACK	BLACK	P-5 1 REQ'D	6.25	6.25

SIGN NOTES

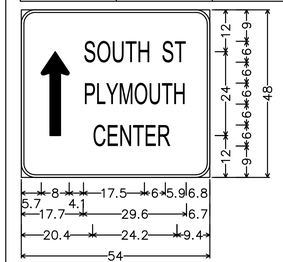
1. HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING CONFORMING TO SECTION M9.30.0 TYPE III OR IV, OF THE MASSDOT STANDARD SPECIFICATIONS, SHALL BE USED FOR ALL SIGNS.
2. ALL P5 POSTS SHALL BE TELESCOPIC, RECTANGULAR TYPE POSTS, CONFORMING TO THE DIMENSIONS AND REQUIREMENTS OF THE MASSDOT "STANDARD DRAWINGS FOR SIGNS AND SUUPORTS" (LATEST EDITION).
3. FOR STREET NAME SIGNS 36" AND WIDER, 2 SIGNS SHALL BE MOUNTED BACK-TO-BACK ON A P-5 POST AT EACH LOCATION AS SHOWN ON THE PLANS.

LEGEND

(1) SEE THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD HIGHWAY SIGNS" BY FEDERAL HIGHWAY ADMINISTRATION (LATEST EDITIONS) FOR TEXT DIMENSIONS AND COLOR. SEE ALSO THE "MASSACHUSETTS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

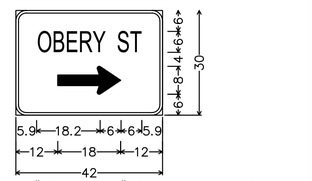
(2) SEE THE "MASSDOT STANDARD SIGNS" LATEST EDITION.

D6-1		
BACKGROUND	LEGEND	BORDER
GREEN REFL.	SILVER WHITE	SILVER WHITE



4.0" Radius, 0.8" Border, White on Green;
Standard Arrow Custom 24.0" X 8.0" 90{;
[South St] C 2K;
[Plymouth] C 2K;
[Center] C 2K;

D8-1		
BACKGROUND	LEGEND	BORDER
GREEN REFL.	SILVER WHITE	SILVER WHITE



3.0" Radius, 0.8" Border, White on Green;
[Obery St] C 2K;
Standard Arrow Custom 18.0" X 8.0" 0{;

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PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	70	120
PROJECT FILE NO.	606264		

SIGN SUMMARY

PERMANENT TRAFFIC SIGN SUMMARY (CONT.)

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (IN)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH (IN)	HEIGHT (IN)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
R3-17	24"	18"	BIKE LANE	(1)	(1)	(1)	20	WHITE	BLACK	BLACK	P-5 20 REQ'D	3.00	60.00
R3-17aP	24"	8"	AHEAD				2	WHITE	BLACK	BLACK	MOUNT W/ R3-17	1.33	2.67
R3-17bP	24"	8"	ENDS				7	WHITE	BLACK	BLACK	MOUNT W/ R3-17	1.33	9.31
R4-7	24"	30"					10	WHITE	BLACK	BLACK	P-5 10 REQ'D	5.00	50.00
R4-4	36"	30"	BEGIN RIGHT TURN LANE YIELD TO BIKES				1	WHITE	BLACK	BLACK	P-5 1 REQ'D	7.50	7.50
R5-1	30"	30"	DO NOT ENTER				4	WHITE	RED/ WHITE	BLACK	MOUNT W/ R1-1	6.25	12.50
R6-1L/R	36"	12"	ONE WAY FRONT / ONE WAY BACK				2	WHITE	BLACK	BLACK	MOUNT W/ R5-1 & R1-1	3.00	6.00
R6-1R	36"	12"	ONE WAY				1	WHITE	BLACK	BLACK	MOUNT W/ R3-2	3.00	3.00
R6-4	30"	24"					8	WHITE	BLACK	–	P-5 8 REQ'D	5.00	40.00
MA-R10-12a	30"	36"	LEFT TURN YIELD ON FLASHING	(2)	(2)	(2)	2	WHITE	BLACK/ YELLOW	BLACK	MOUNT ON MAST ARM	5.00	10.00
R10-3e(L)	15"	9"		(1)	(1)	(1)	3	WHITE	BLACK	–	MOUNT 2 TO PED BUTTON POST	0.94	2.82
R10-3e(R)	15"	9"					5	WHITE	BLACK	–	MOUNT 2 TO PED BUTTON POST	0.94	4.70
R10-15	30"	30"	TURNING VEHICLES TO				3	YELLOW/ WHITE	BLACK/ RED/ WHITE	BLACK	P5 1 REQ'D MOUNT 2 TO SIGNAL POLE	6.25	18.75
S1-1	36"	36"					10	FLUOR YELLOW-GREEN	BLACK	BLACK	P-5 10 REQ'D	9.00	90.00
W2-6	30"	30"					7	YELLOW	BLACK	BLACK	P-5 7 REQ'D	6.25	43.75
W11-2	30"	30"					9	FLUOR YELLOW-GREEN	BLACK	BLACK	P-5 9 REQ'D	6.25	56.25
W16-2aP	24"	12"	200 FT				2	FLUOR YELLOW-GREEN	BLACK	BLACK	MOUNT W/ S1-1	2.00	4.00
W16-7PL	24"	12"					16	FLUOR YELLOW-GREEN	BLACK	BLACK	MOUNT 8 W/ W11-2 MOUNT 8 W/ S1-1	2.00	32.00
W16-7PR	24"	12"					1	FLUOR YELLOW-GREEN	BLACK	BLACK	MOUNT W/ W11-2	2.00	2.00
W16-17P	24"	12"	ROUNDABOUT				7	YELLOW	BLACK	BLACK	MOUNT W/ W2-6	2.00	14.00

SIGN NOTES

1. HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING CONFORMING TO SECTION M9.30.0 TYPE III OR IV, OF THE MASSDOT STANDARD SPECIFICATIONS, SHALL BE USED FOR ALL SIGNS.
2. ALL P5 POSTS SHALL BE TELESCOPIC, RECTANGULAR TYPE POSTS, CONFORMING TO THE DIMENSIONS AND REQUIREMENTS OF THE MASSDOT "STANDARD DRAWINGS FOR SIGNS AND SUUPORTS" (LATEST EDITION).

LEGEND

(1) SEE THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD HIGHWAY SIGNS" BY FEDERAL HIGHWAY ADMINISTRATION (LATEST EDITIONS) FOR TEXT DIMENSIONS AND COLOR. SEE ALSO THE "MASSACHUSETTS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

(2) SEE THE "MASSDOT STANDARD SIGNS" LATEST EDITION.

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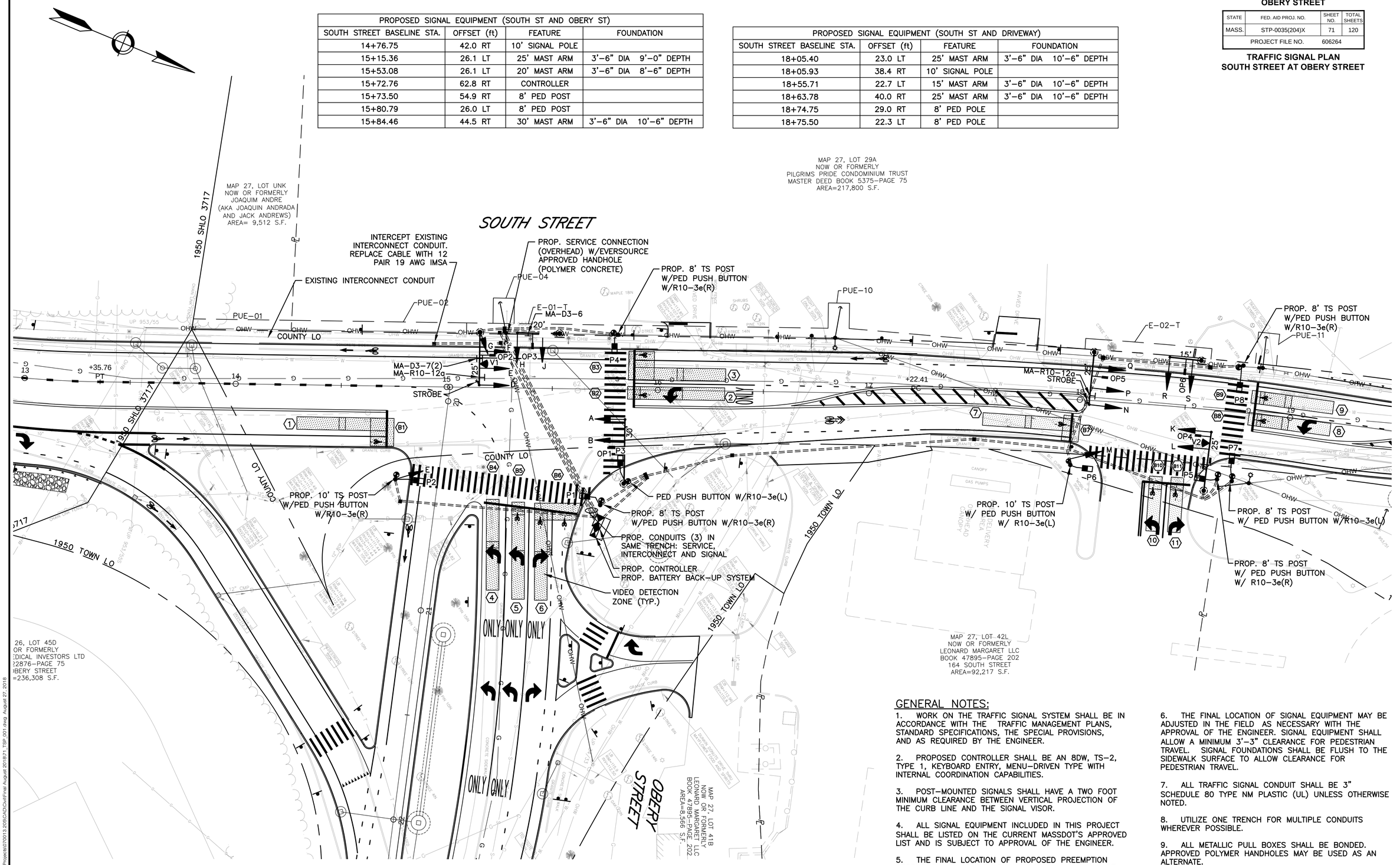
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	71	120
PROJECT FILE NO.	606264		

TRAFFIC SIGNAL PLAN
SOUTH STREET AT OBERY STREET

PROPOSED SIGNAL EQUIPMENT (SOUTH ST AND OBERY ST)			
SOUTH STREET BASELINE STA.	OFFSET (ft)	FEATURE	FOUNDATION
14+76.75	42.0 RT	10' SIGNAL POLE	
15+15.36	26.1 LT	25' MAST ARM	3'–6" DIA 9'–0" DEPTH
15+53.08	26.1 LT	20' MAST ARM	3'–6" DIA 8'–6" DEPTH
15+72.76	62.8 RT	CONTROLLER	
15+73.50	54.9 RT	8' PED POST	
15+80.79	26.0 LT	8' PED POST	
15+84.46	44.5 RT	30' MAST ARM	3'–6" DIA 10'–6" DEPTH

PROPOSED SIGNAL EQUIPMENT (SOUTH ST AND DRIVEWAY)			
SOUTH STREET BASELINE STA.	OFFSET (ft)	FEATURE	FOUNDATION
18+05.40	23.0 LT	25' MAST ARM	3'–6" DIA 10'–6" DEPTH
18+05.93	38.4 RT	10' SIGNAL POLE	
18+55.71	22.7 LT	15' MAST ARM	3'–6" DIA 10'–6" DEPTH
18+63.78	40.0 RT	25' MAST ARM	3'–6" DIA 10'–6" DEPTH
18+74.75	29.0 RT	8' PED POLE	
18+75.50	22.3 LT	8' PED POLE	



GENERAL NOTES:

1. WORK ON THE TRAFFIC SIGNAL SYSTEM SHALL BE IN ACCORDANCE WITH THE TRAFFIC MANAGEMENT PLANS, STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND AS REQUIRED BY THE ENGINEER.

2. PROPOSED CONTROLLER SHALL BE AN 8DW, TS–2, TYPE 1, KEYBOARD ENTRY, MENU–DRIVEN TYPE WITH INTERNAL COORDINATION CAPABILITIES.

3. POST–MOUNTED SIGNALS SHALL HAVE A TWO FOOT MINIMUM CLEARANCE BETWEEN VERTICAL PROJECTION OF THE CURB LINE AND THE SIGNAL VISOR.

4. ALL SIGNAL EQUIPMENT INCLUDED IN THIS PROJECT SHALL BE LISTED ON THE CURRENT MASSDOT'S APPROVED LIST AND IS SUBJECT TO APPROVAL OF THE ENGINEER.

5. THE FINAL LOCATION OF PROPOSED PREEMPTION RECEIVERS AND CONFIRMATION STROBE LIGHT SHALL BE COORDINATED WITH THE PLYMOUTH FIRE DEPARTMENT AND APPROVED BY MASSDOT.

6. THE FINAL LOCATION OF SIGNAL EQUIPMENT MAY BE ADJUSTED IN THE FIELD AS NECESSARY WITH THE APPROVAL OF THE ENGINEER. SIGNAL EQUIPMENT SHALL ALLOW A MINIMUM 3'–3" CLEARANCE FOR PEDESTRIAN TRAVEL. SIGNAL FOUNDATIONS SHALL BE FLUSH TO THE SIDEWALK SURFACE TO ALLOW CLEARANCE FOR PEDESTRIAN TRAVEL.

7. ALL TRAFFIC SIGNAL CONDUIT SHALL BE 3" SCHEDULE 80 TYPE NM PLASTIC (UL) UNLESS OTHERWISE NOTED.

8. UTILIZE ONE TRENCH FOR MULTIPLE CONDUITS WHEREVER POSSIBLE.

9. ALL METALLIC PULL BOXES SHALL BE BONDED. APPROVED POLYMER HANDHOLES MAY BE USED AS AN ALTERNATE.

10. TRAFFIC SIGNAL CONTROLLER SHALL BE COMPATIBLE AND COORDINATED WITH THE EXISTING EAGLE COORDINATED SYSTEM.

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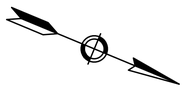
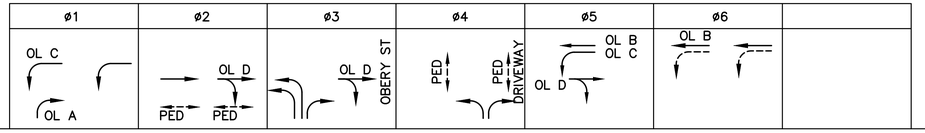
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	72	120
PROJECT FILE NO.	606264		

TRAFFIC SIGNAL DATA
SOUTH STREET AT OBERY STREET



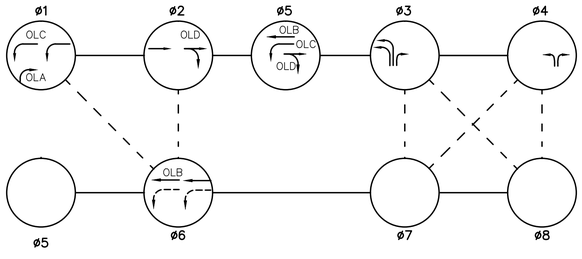


SEQUENCE AND TIMING FOR FULLY-ACTUATED CONTROL (COORDINATED)

STREET	DIRECTION	HOUSINGS	1	2	3	5	7	8	9	10	11	12	13	14	15	16	17	18	20	21	22	23	24	FLASH DOPER.
SOUTH STREET	NB	A,B	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R				FY
SOUTH STREET	SB	C,D	GL	YL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	GL	YL	RL	FYL	YL	RL				FRL
SOUTH STREET	SB	E,F	R	R	R	R	R	R	R	R	R	R	R	R	GV	Y	R	GV	Y	R				FY
SOUTH STREET	NB	K,L	R	R	R	G	Y	R	G	Y	R	R	R	R	G	Y	R	R	R	R				FY
SOUTH STREET	SB	M,N	GL	YL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	FYL	YL	RL				FRL
SOUTH STREET	SB	P,Q	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	GV	Y	R				FY
OBERY STREET	WB	G,H	RL	RL	RL	RL	RL	RL	GL	YL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL				FRL
OBERY STREET	WB	J	R/GR	R/YR	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R				FR
(DRIVEWAY)	WB	R,S	R	R	R	R	R	R	R	Y	R	G	Y	R	R	R	R	R	R	R				FR
PEDESTRIAN	NB-SB	P1,P2	DW	DW	DW	W/FDW	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW				OFF
PEDESTRIAN	EB-WB	P3,P4	DW	DW	DW	DW	DW	DW	DW	DW	DW	W/FDW	FDW	DW	DW	DW	DW	DW	DW	DW				OFF
PEDESTRIAN	NB-SB	P5,P6	DW	DW	DW	W/FDW	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW				OFF
PEDESTRIAN	EB-WB	P7,P8	DW	DW	DW	DW	DW	DW	DW	DW	DW	W/FDW	FDW	DW	DW	DW	DW	DW	DW	DW				OFF
TIMING IN SECONDS																								
MINIMUM GREEN (INITIAL)			5			10			5			5			5			10						EMERGENCY ONLY
PASSAGE TIME (VEHICLE)			2			2			2			2			2			2						
MAXIMUM 1 AM BACK UP			7			32			10			7			5			39						
MAXIMUM 2 PM BACK UP & FREE OPERATION			7			32			10			7			5			39						
YELLOW CLEARANCE				3			4			4			4			4			4					
RED CLEARANCE					2			2			2			2			2			2				
WALK (W)						7						7												
PEDESTRIAN CLEARANCE							20						10											
								3						3										
RECALL			OFF			SOFT			OFF			OFF			OFF			SOFT						
MEMORY			NON-LOCKING			NON-LOCKING			NON-LOCKING			NON-LOCKING			NON-LOCKING			NON-LOCKING						

* OL B, OL C, OL D DOUBLE CLEARING OVERLAPS 5 SEC.
IF PHASE 4 PEDESTRIAN IS CALLED, PHASE 4 SHALL BE EXTENDED TO SERVICE PEDESTRIAN TIME.
IF PHASE 4 IS NOT CALLED, PHASE 4 TIME SHALL BE APPLIED TO PHASE 3.
IF THE ASSIGNED RIGHT-OF-WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.

NEMA DUAL RING PHASING NOTES:

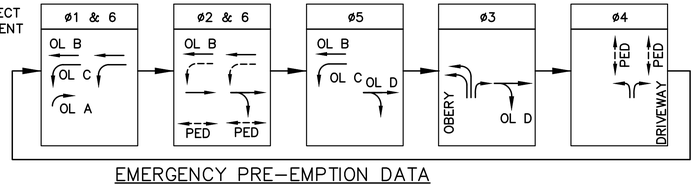


COORDINATION DATA
(ALL ENTRIES IN SECONDS)

CYCLE	TIME PERIOD	OFFSET	CYCLE LENGTH
CYCLE 1	AM PEAK 6:30 AM-9:30 AM	37	90
CYCLE 2	PM PEAK 3:00 PM-7:00 PM	31	90
CYCLE 3	FREE ALL OTHER TIMES		

SPLIT	ø1	ø2	ø3	ø4	ø5	ø6	ø7	ø8	ø9
SPLIT 1	17	44	16	13		61			
SPLIT 2	17	44	16	13		61			
SPLIT 3									

PREFERENTIAL PHASING SEQUENCE



EMERGENCY PRE-EMPTION DATA

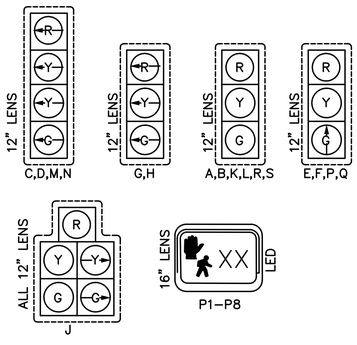
APPROACH	DETECTOR	PHASE	TIME (SEC)
SOUTH STREET NB	OP1 OP4	ø2	MIN. 10 MAX. 120
SOUTH STREET SB	OP2 OP5	ø1&6	MIN. 10 MAX. 120
OBERY STREET WB	OP3	ø3	MIN. 10 MAX. 120
DRIVEWAY WB	OP6	ø4	MIN. 10 MAX. 120

NOTE:
UPON COMPLETION OF PRE-EMPTION TRAFFIC SIGNAL SHALL RETURN TO ø2+ø6

EMERGENCY VEHICLE PREEMPTION OPERATION:

1. EMERGENCY VEHICLE PREEMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
2. PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
3. IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAT TO BE SERVICED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
4. PREEMPTION MINIMUM GREENS SHALL BE TEN SECONDS.
5. NORMAL CLEARANCES SHALL BE PROVIDED ON PHASES THAT ARE TERMINATED BY PREEMPTION DEMAND.
6. ACTUAL TIMING FOR PREEMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY MASSDOT PRIOR TO OPERATION.

SIGNAL IDENTIFICATION



NOTES:
1. ALL SIGNALS SHALL HAVE CUT AWAY VISORS.
2. ALL SIGNALS SHALL HAVE 5" LOUVERED BACK PLATES.
3. ALL SIGNALS SHALL HAVE RED, YELLOW AND GREEN LED's.
4. 2" RETRO REFLECTIVE BACK PLATES ON ALL SIGNAL HEADS.

MAJOR ITEMS REQUIRED

ITEM	QUANTITY LOC.#1	QUANTITY LOC.#2	ITEM
*	1		CONTROLLER 8DW, TS-2, TYPE 1, CAB.& FDN.
	1		SERVICE CONNECTION, TYPE OVERHEAD
	1		30' MAST ARM (LIGHT) ASSEMBLY, BASE, & FDN.
	1	2	25' MAST ARM (HEAVY) ASSEMBLY, BASE, & FDN.
	1		20' MAST ARM (HEAVY) ASSEMBLY, BASE, & FDN.
		1	15' MAST ARM (HEAVY) ASSEMBLY, BASE, & FDN.
	2	2	8' TRAFFIC SIGNAL POST & FDN.
	1	1	10' TRAFFIC SIGNAL POST & FDN.
	2	2	1 WAY, 4 SECTION, SIGNAL HOUSING (12" LENS)
	1		1 WAY, 5 SECTION, SIGNAL HOUSING (12" LENS)
	6	6	1 WAY, 3 SECTION, SIGNAL HOUSING (12" LENS)
	1	1	CAMERA VIDEO DETECTION INTERFACE SYSTEM
	1	1	VIDEO DETECTION CAMERA (360 DEGREE)
	3	6	EMERGENCY PREEMPTION UNIDIRECTIONAL SINGLE CHANNEL
	1	1	EMERGENCY PREEEMPTION PHASE SELECTOR (4 CHANNEL)
	4	4	PEDESTRIAN HOUSING 16" COUNTDOWN
	4	4	APS PED. PUSH BUTTON, R10-3e SIGN & SADDLE
	1	1	9" VIDEO MONITOR AND LENS ADJUSTMENT MODULE
	1		BATTERY BACK UP SYSTEM WITH S6 CABINET AND FDN.
	1		REMOVE AND STACK EXISTING TRAFFIC SIGNALS
811.22	2	1	ELECTRIC HANDHOLE - SD2.022
811.31	4	5	12" X 12" PULL BOX - SD2.031
			Plus all necessary duct, cable, labor, miscellaneous material and equipment to complete the installation.

* 816.01 IS FOR LOCATION NO. 1 AND 815.2 IS FOR LOCATION NO. 2.

DETECTOR DATA

DETECTOR NUMBER	CAMERA NUMBER	CHANNEL NUMBER	DETECTION ZONE	NUM. OF TURNS	ø CALLED	ø EXT.	MODE A=PULSE B=PRES.	DELAY TIME	EXT. TIME
1	V1	1	2@6'x23'		2	2	B	-	-
B1	V1	2	1@13'x11'		2	2	B	-	-
2	V1	3	2@6'x23'		1	1&6	B	-	-
B2	V1	4	1@6'x6'		1	1&6	B	-	-
3	V1	5	2@6'x23'		6	6	B	-	-
B3	V1	6	1@14'x12'		6	6	B	-	-
4	V1	7	2@6'x23'		3	3	B	-	-
5	V1	8	2@6'x23'		3	3	B	-	-
B5	V1	9	1@6'x6'		3	3	B	-	-
6	V1	10	2@6'x23'		3	3	B	5	-
B6	V1	11	1@22'x8'		3	3	B	5	-
7	V2	1	2@6'x23'		2	2	B	-	-
B7	V2	2	1@12'x8'		2	2	B	-	-
8	V2	3	2@6'x23'		1	1&6	B	-	-
B8	V2	4	1@6'x6'		1	1&6	B	-	-
9	V2	5	2@6'x23'		6	6	B	-	-
B9	V2	6	1@6'x6'		6	6	B	-	-
10	V2	7	2@6'x23'		4	4	B	-	-
B10	V2	8	1@6'x6'		4	4	B	-	-
11	V2	9	2@6'x23'		4	4	B	5	-
B11	V2	10	1@6'x6'		4	4	B	5	-

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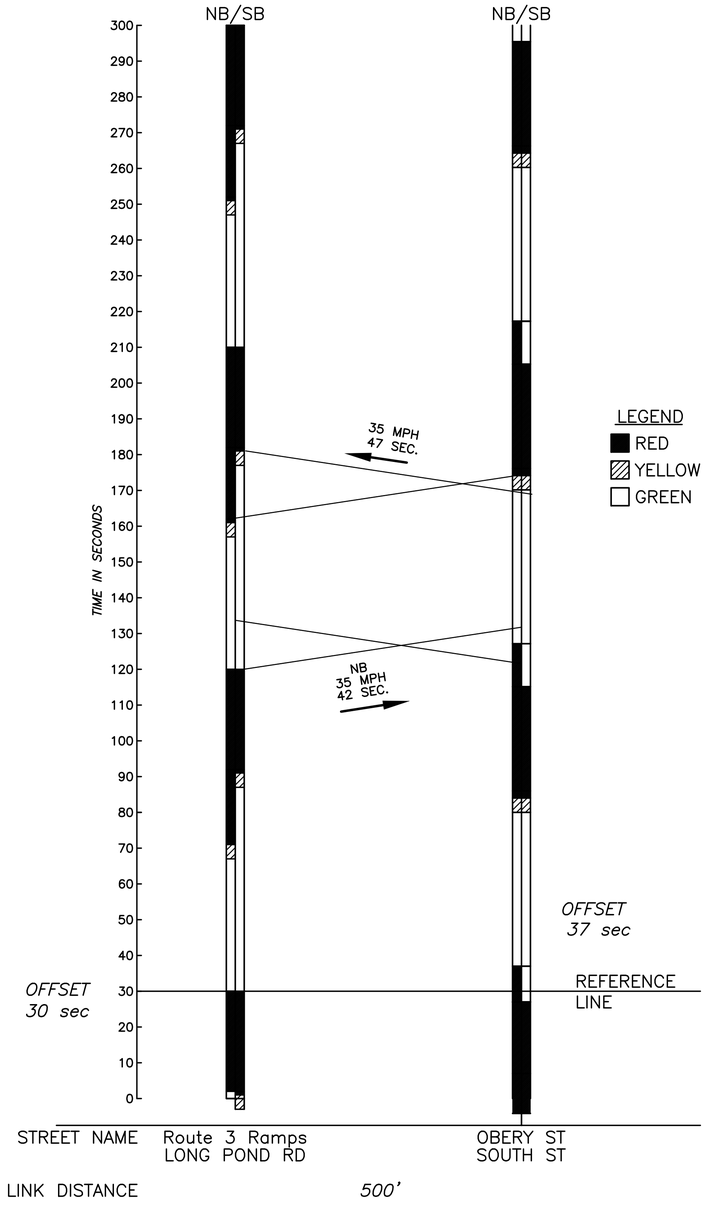
PLYMOUTH
OBERY STREET

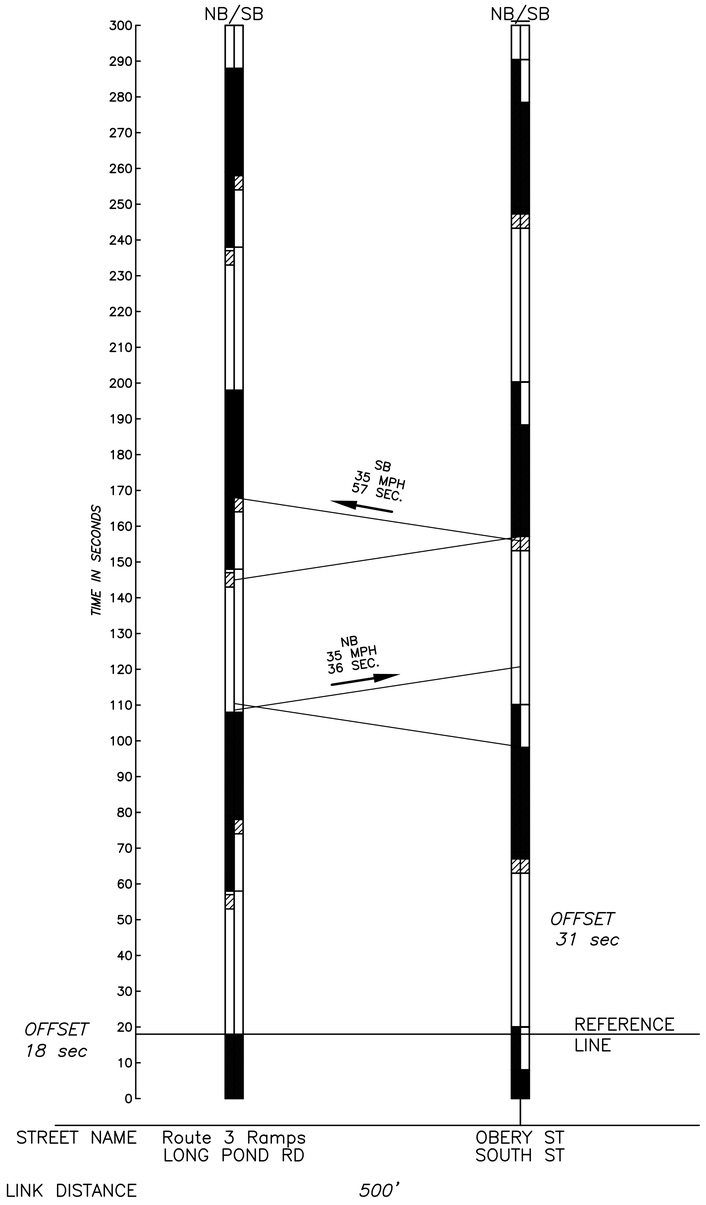
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	73	120
PROJECT FILE NO.	606264		

TIME SPACE DIAGRAM
SOUTH STREET AT OBERY STREET

AM PEAK TIME–SPACE DIAGRAM
(PLAN 1)



PM PEAK TIME–SPACE DIAGRAM
(PLAN 2)



LEGEND
- RED
- YELLOW
- GREEN

COORDINATION DATA – LONG POND RD/RTE 3 RAMPS
(ALL ENTRIES IN SECONDS)

CYCLE	TIME PERIOD	OFFSET	CYCLE LENGTH
CYCLE 1	AM PEAK 6:30 AM–9:30 AM	30	90
CYCLE 2	PM PEAK 3:00 PM–7:00 PM	18	90
CYCLE 3	FREE ALL OTHER TIMES		

SPLIT	ø1	ø2	ø3	ø4	ø5	ø6	ø7	ø8	ø9
SPLIT 1		42	20	28	20	62			
SPLIT 2		40	16	29	21	61			
SPLIT 3									

NOTES:
1. THIS SYSTEM SHALL RUN IN YIELD COORDINATION AND SHALL HAVE CYCLE–BASED FORCE OFFS.
2. THE PROPOSED TRAFFIC SIGNALS ON SOUTH STREET AT OBERY STREET AND THE MAYFLOWER DRIVEWAY ARE AT THE NORTH END OF A COORDINATED SYSTEM WITH FIVE OTHER TRAFFIC SIGNALS ON SOUTH STREET: ROUTE 3 NB RAMP, ROUTE 3 SB RAMP, HOME DEPOT DRIVE, THE GROVE AT PLYMOUTH SHOPS DRIVEWAY, AND CAMELOT DRIVE. THIS PROJECT WILL NOT REVISE THE COORDINATION OF THE FIVE OTHER TRAFFIC SIGNALS.

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BORING NOTES

1. BORINGS WERE COMPLETED ON JUNE 20, 2018 & JUNE 21, 2018 BY NEW ENGLAND BORING, INC.

LOG OF TEST BORING

JACOBS

PROJECT	OBERY STREET IMPROVEMENTS PROJECT	BORING NO.	B-1
LOCATION	PLYMOUTH, MA		SHEET 1 OF 1
OWNER	MASSDOT		
JOB NUMBER	Y7B20500		

INSPECTOR	M. Ung	CONTRACTOR	NEBC	DRILLER	Trent Roe	ELEVATION	114.7
METHOD OF DRILLING		GROUNDWATER READINGS		DRILL RIG	B-57 Truck	DATUM	NAVD 88
0.0	Wash Boring w/Casing	DATE/TIME	DEPTH(ft) REMARKS	SPT HAMMER	140 lb Safety	GRID N	2803549
20.0	Wash Boring - Open Hole	06-21-2018 / 1:00 PM		None Encountered		COORD E	885600.9
27.0	Terminated					DATE START	6/21/18
						DATE END	6/21/18

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)(in)	PID (ppm)	SOIL LEGEND NAME	SOIL AND ROCK DESCRIPTION	NOTES
							1.1		0.0 - 0.4': Asphalt 0.4' - 1.1': Moist, brown, fine to coarse SAND, some fine Gravel, trace Silt. (FILL) 1.1'-7': Moist, brown, fine to coarse SAND, trace Gravel, trace Silt.	1
110	5	12 14 16 19	30	S1	7 - 9	24/18		SAND	S1: Moist, medium dense, brown, fine SAND, trace Gravel, trace Silt.	
105	10	7 13 15 21	28	S2	9 - 11	24/10			S2: Moist, medium dense, brown, fine SAND, trace Silt.	
		15 26 24 27	50	S3	11 - 13	24/24			S3: Dry, dense, brown, fine SAND, trace Silt.	
100	15	11 11 11 12	22	S4	13 - 15	24/7			S4: Moist, medium dense, brown, fine to coarse SAND, trace Silt.	
95	20	14 19 23 28	42	S5	20 - 22	24/12			S5: Moist, dense, brown, fine SAND, trace Silt.	
90	25	8 15 18 22	33	S6	25 - 27	24/13			S6: Dry, dense, brown, fine SAND, trace Silt.	
85	30						27		Bottom of Borehole at 27 feet.	2
80	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Vacuum excavation to 7 feet.
2. Upon completion, hole backfilled with soil cuttings, cold patch at surface.

LOG OF TEST BORING

JACOBS

PROJECT	OBERY STREET IMPROVEMENTS PROJECT	BORING NO.	B-2
LOCATION	PLYMOUTH, MA		SHEET 1 OF 1
OWNER	MASSDOT		
JOB NUMBER	Y7B20500		

INSPECTOR	M. Ung	CONTRACTOR	NEBC	DRILLER	Trent Roe	ELEVATION	114.3
METHOD OF DRILLING		GROUNDWATER READINGS		DRILL RIG	B-57 Truck	DATUM	NAVD 88
0.0	Hollow Stem Auger	DATE/TIME	DEPTH(ft) REMARKS	SPT HAMMER	140 lb Safety	GRID N	2803612.6
27.0	Terminated	06-21-2018 / 10:30 AM		None Encountered		COORD E	885619
						DATE START	6/21/18
						DATE END	6/21/18

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)(in)	PID (ppm)	SOIL LEGEND NAME	SOIL AND ROCK DESCRIPTION	NOTES
							1.1		0.0 - 0.4': Asphalt 0.4' - 1.1': Moist, brown, fine to coarse SAND, some fine Gravel, trace Silt. (FILL) 1.1'-7': Moist, brown, fine to coarse SAND, trace Gravel, trace Silt.	1
110	5	6 6 8 9	14	S1	7 - 9	24/17		SAND	S1: Dry, medium dense, light brown, fine SAND, trace Silt.	
105	10	6 6 8 8	14	S2	9 - 11	24/22			S2: Dry, medium dense, light brown, fine SAND, trace Silt.	
		5 20 28 23	48	S3	11 - 13	24/20			S3: Dry, dense, light brown, fine to coarse SAND, some fine Gravel, trace Silt.	
100	15	21 15 13 17	28	S4	13 - 15	24/13			S4: Dry, medium dense, light brown, fine SAND, trace Gravel, trace Silt.	
95	20	9 15 15 22	30	S5	20 - 22	24/17			S5: Dry, dense, light brown, fine SAND, trace Silt.	
90	25	20 25 23 33	48	S6	25 - 27	24/14			S6: Dry, dense, light brown, fine SAND, some fine to coarse Gravel, trace Silt.	
85	30						27		Bottom of Borehole at 27 feet.	2
80	35									

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Vacuum excavation to 7 feet.
2. Upon completion, hole backfilled with soil cuttings, cold patch at surface.

LOG OF TEST BORING

JACOBS

PROJECT	OBERY STREET IMPROVEMENTS PROJECT	BORING NO.	B-3
LOCATION	PLYMOUTH, MA		SHEET 1 OF 1
OWNER	MASSDOT		
JOB NUMBER	Y7B20500		

INSPECTOR	M. Ung	CONTRACTOR	NEBC	DRILLER	Trent Roe	ELEVATION	112.9
METHOD OF DRILLING		GROUNDWATER READINGS		DRILL RIG	B-57 Truck	DATUM	NAVD 88
0.0	Wash Boring w/Casing	DATE/TIME	DEPTH(ft) REMARKS	SPT HAMMER	140 lb Safety	GRID N	2803846.3
27.0	Terminated	06-20-2018 / 1:45 PM		None Encountered		COORD E	885501.1
						DATE START	6/20/18
						DATE END	6/20/18

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)(in)	PID (ppm)	SOIL LEGEND NAME	SOIL AND ROCK DESCRIPTION	NOTES
							1.1		0.0 - 0.4': Asphalt 0.4' - 1.1': Moist, brown, fine to coarse SAND, some fine Gravel, trace Silt. (FILL) 1.1'-5.5': Moist, brown, fine to coarse SAND, trace Gravel, trace Silt.	1
110	5	3 5 6	11	S1	5.5 - 7	24/12		SAND	S1: Dry, medium dense, light brown/yellow, fine SAND, trace Silt.	
105	10	6 7 8	14	S2	7 - 9	24/18			S2: Dry, medium dense, light brown/yellow, fine SAND, trace Silt.	
		4 5 6 7	11	S3	9 - 11	24/16			S3: Moist, medium dense, light brown, fine SAND, trace Silt.	
100	15	5 7 9 10	16	S4	11 - 13	24/20			S4: Moist, medium dense, light brown, fine SAND, trace Silt.	
95	20	5 5 8 9	13	S5	13 - 15	24/17			S5: Moist, medium dense, light brown, fine SAND, trace Silt.	
90	25	6 9 19 19	28	S6	20 - 22	24/16			S6: Moist, medium dense, light brown, fine SAND, trace Gravel, trace Silt.	
85	30	12 13 19 30	32	S7	25 - 27	24/10			S7: Moist, dense, brown, fine SAND, some fine Gravel, trace Silt.	
80	35						27		Bottom of Borehole at 27 feet.	2

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Vacuum excavation to 5.5 feet.
2. Upon completion, hole backfilled with soil cuttings, cold patch at surface.

LOG OF TEST BORING

JACOBS

PROJECT	OBERY STREET IMPROVEMENTS PROJECT	BORING NO.	B-4
LOCATION	PLYMOUTH, MA		SHEET 1 OF 1
OWNER	MASSDOT		
JOB NUMBER	Y7B20500		

INSPECTOR	M. Ung	CONTRACTOR	NEBC	DRILLER	Trent Roe	ELEVATION	112.8
METHOD OF DRILLING		GROUNDWATER READINGS		DRILL RIG	B-57 Truck	DATUM	NAVD 88
0.0	Hollow Stem Auger	DATE/TIME	DEPTH(ft) REMARKS	SPT HAMMER	140 lb Safety	GRID N	2803888.3
27.0	Terminated	06-21-2018 / 11:03		None Encountered		COORD E	885546.4
						DATE START	6/20/18
						DATE END	6/20/18

ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N-VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/REC (in)(in)	PID (ppm)	SOIL LEGEND NAME	SOIL AND ROCK DESCRIPTION	NOTES
							1.1		0.0 - 0.4': Asphalt 0.4' - 1.1': Moist, brown, fine to coarse SAND, some fine Gravel, trace Silt. (FILL) 1.1'-5': Moist, brown, fine to coarse SAND, trace Gravel, trace Silt.	1
110	5	3 4 5 5	9	S1	5 - 7	24/16		SAND	S1: Dry, loose, brown/yellow, fine SAND, some fine Gravel, trace Silt.	
105	10	8 8 7 7	15	S2	7 - 9	24/20			S2: Dry, medium dense, brown/yellow, fine SAND, trace Gravel, trace Silt.	
		5 5 6 7	11	S3	9 - 11	24/16			S3: Dry, medium dense, light brown/gray, fine SAND, trace Silt.	
100	15	6 6 7 8	13	S4	11 - 13	24/24			S4: Dry, medium dense, light brown/gray, fine SAND, trace Silt.	
95	20	4 5 7 7	12	S5	13 - 15	24/16			S5: Dry, medium dense, light brown/gray, fine SAND, trace Silt.	
90	25	10 15 15 20	30	S6	20 - 22	24/16			S6: Dry, dense, light brown/gray, fine SAND, trace Silt.	
85	30	11 17 14 34	31	S7	25 - 27	24/12			S7: Moist, dense, light brown, fine to coarse SAND, some fine Gravel, trace Silt.	
80	35						27		Bottom of Borehole at 27 feet.	3

Page 1: 0-35 feet. Each subsequent page displays 40 feet.

NOTES

1. Vacuum excavation to 5 feet.
3. Upon completion, hole backfilled with soil cuttings, cold patch at surface.

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	74	120
PROJECT FILE NO.	606264		

TRAFFIC SIGNAL MAST ARM BORING LOGS

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PLYMOUTH
OBERY STREET

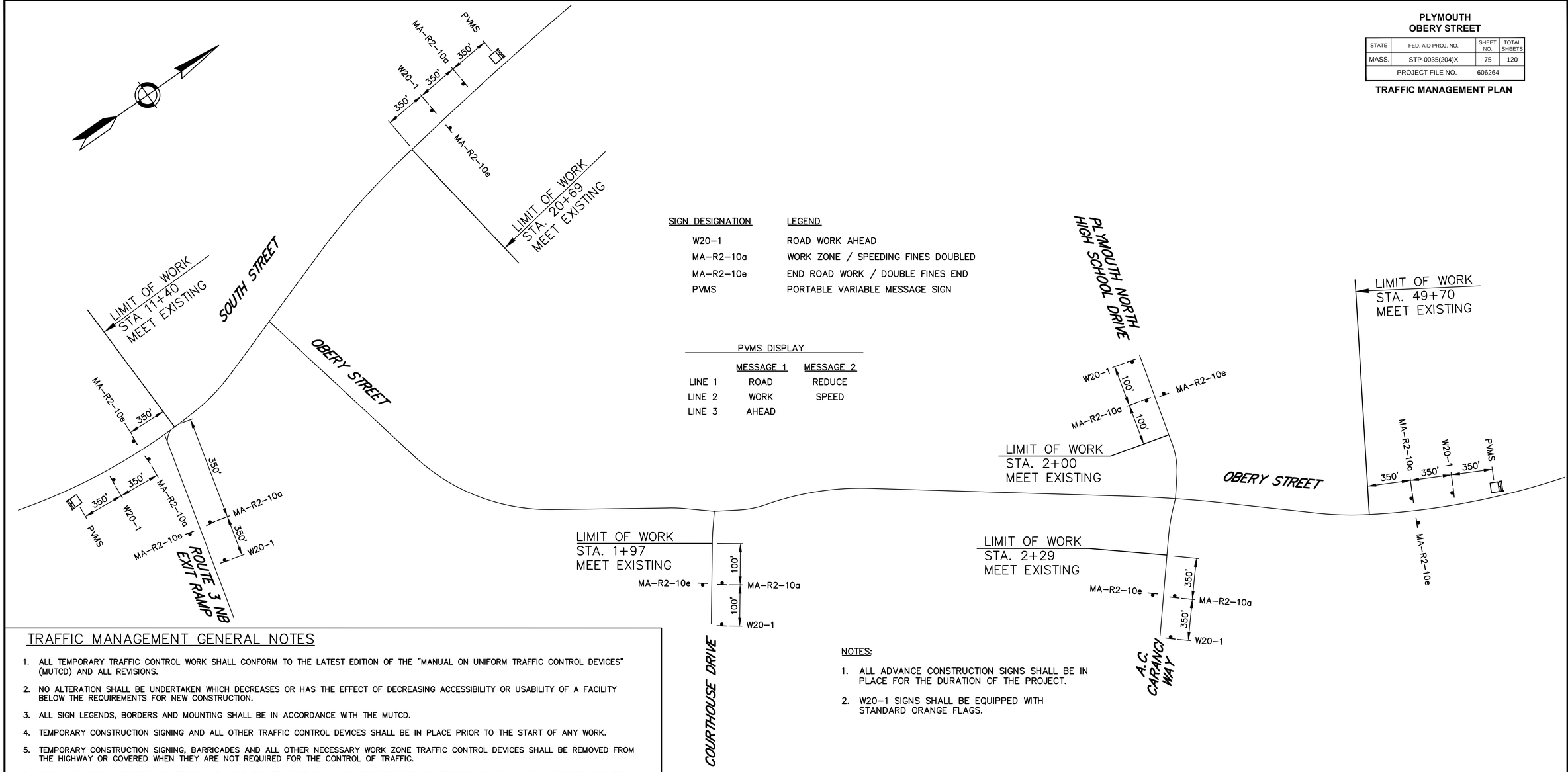
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	75	120
PROJECT FILE NO.	606264		

TRAFFIC MANAGEMENT PLAN

SIGN DESIGNATION	LEGEND
W20-1	ROAD WORK AHEAD
MA-R2-10a	WORK ZONE / SPEEDING FINES DOUBLED
MA-R2-10e	END ROAD WORK / DOUBLE FINES END
PVMS	PORTABLE VARIABLE MESSAGE SIGN

PVMS DISPLAY

	MESSAGE 1	MESSAGE 2
LINE 1	ROAD	REDUCE
LINE 2	WORK	SPEED
LINE 3	AHEAD	



NOTES:

1. ALL ADVANCE CONSTRUCTION SIGNS SHALL BE IN PLACE FOR THE DURATION OF THE PROJECT.
2. W20-1 SIGNS SHALL BE EQUIPPED WITH STANDARD ORANGE FLAGS.

ADVANCE CONSTRUCTION SIGN SCHEMATIC

NOT TO SCALE

TRAFFIC MANAGEMENT GENERAL NOTES

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS.
2. NO ALTERATION SHALL BE UNDERTAKEN WHICH DECREASES OR HAS THE EFFECT OF DECREASING ACCESSIBILITY OR USABILITY OF A FACILITY BELOW THE REQUIREMENTS FOR NEW CONSTRUCTION.
3. ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
4. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
5. TEMPORARY CONSTRUCTION SIGNING, BARRICADES AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR THE CONTROL OF TRAFFIC.
6. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, AND REFLECTORIZED PLASTIC DRUMS WITH LIGHTING DEVICES MOUNTED ON THEM, MUST PASS THE CRITERIA SET FORTH IN NCHRP 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES".
7. 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 CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
8. THE FIRST FIVE PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.
9. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
10. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
11. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
12. MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
13. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
14. SIGNS SHALL BE KEPT CLEAN AND LEGENDS SHALL BE DISTINCTIVE AND UNMARRED.
15. DRUMS, SIGNS, AND OTHER WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS.
16. WORK MAY REQUIRE ADDITIONAL SIGNS, DRUMS AND OTHER WORK ZONE TRAFFIC CONTROL DEVICES, GRADING, AND TEMPORARY PAVEMENT TO PROVED PASSAGE FOR PEDESTRIAN, VEHICULAR, AND EMERGENCY TRAFFIC THROUGH THE WORK ZONE, BOTH DURING AND AFTER WORK HOURS.
17. TRAFFIC OFFICER LOCATIONS MAY BE ADJUSTED AS NECESSARY.

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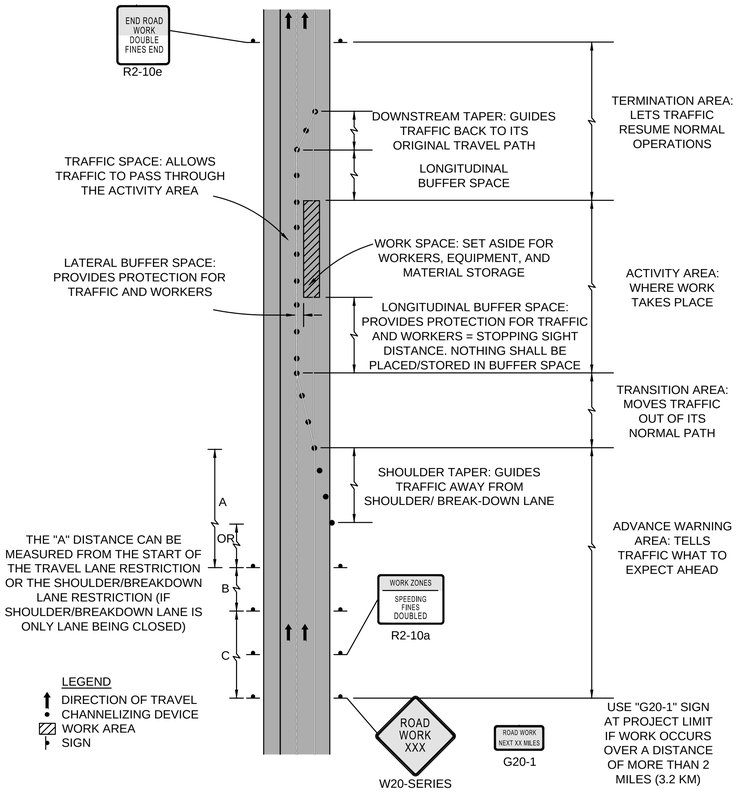
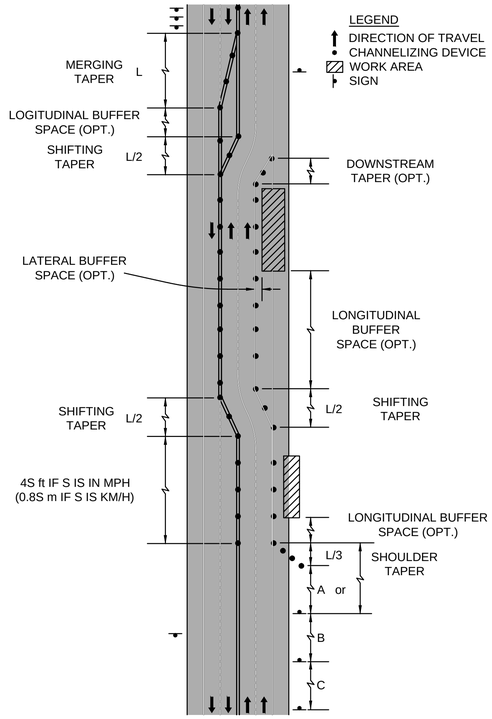
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	76	120
PROJECT FILE NO.	606264		

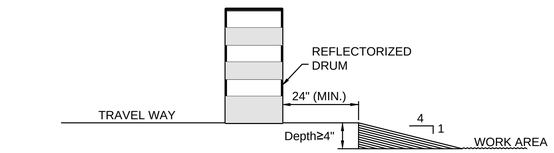
TRAFFIC MANAGEMENT PLAN



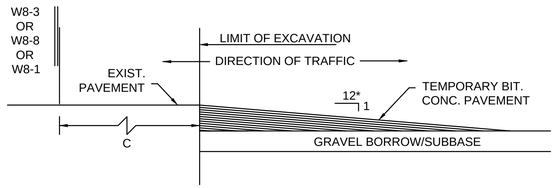
COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL (TTC) ZONE (TR–GEN–4)
NOT TO SCALE



TYPES OF TAPERS AND BUFFER SPACES (TR–GEN–5)
NOT TO SCALE



LATERAL DROP-OFF DETAIL



LONGITUDINAL DROP-OFF DETAIL

* - INCREASE SLOPE RATIO
FOR HIGHER SPEEDS

LATERAL AND LONGITUDINAL DROP–OFF DETAILS (TR–GEN–6)
NOT TO SCALE

NOTES:

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

LEGEND:

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

GENERAL GUIDELINES (TR–GEN–1)
NOT TO SCALE

CONVENTIONAL ROADWAY– A STREET OR HIGHWAY OTHER THAN A LOW–VOLUME ROAD, EXPRESSWAY, OR FREEWAY.

EXPRESSWAY– A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

FREEWAY– A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

LOW–VOLUME ROAD– A FACILITY LYING OUTSIDE OF BUILT–UP AREAS OF CITIES, TOWNS, AND COMMUNITIES, AND IT SHALL HAVE A TRAFFIC VOLUME OF LESS THAN 400 AADT. IT SHALL NOT BE A FREEWAY, EXPRESSWAY, INTERCHANGE RAMP, FREEWAY SERVICE ROAD OR A ROAD ON A DESIGNATED STATE HIGHWAY SYSTEM.

Source: MUTCD LATEST EDITION

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE–LANE, TWO–WAY TRAFFIC TAPER	50 FT MIN.(15 m) 100 FT(30 m) MAX.
DOWNSTREAM TAPER	50 FT MIN.(15 m) 100 FT MAX.(30 m) PER LANE

Source: Table 6C–3 MUTCD LATEST EDITION

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

SPEED LIMIT (S)	TAPER LENGTH (L) Meters
60 KM/H OR LESS	$L = \frac{WS^2}{155}$
70 KM/H OR MORE	$L = \frac{WS}{1.6}$

WHERE: L = TAPER LENGTH IN FEET (METERS)
W = WIDTH OF OFFSET IN FEET (METERS)
S = POSTED SPEED LIMIT, OR OFF–PEAK 85TH–PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICAPATED OPERATING SPEED IN MPH (KM/H)

Source: Table 6C–4 MUTCD LATEST EDITION

NOTES ON WORK ZONE DISTANCES (TR–GEN–3)
NOT TO SCALE

SUGGESTED WORK ZONE WARNING SIGN SPACING

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

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

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

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

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

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

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

Based on: Table 6C–1 MUTCD LATEST EDITION

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

SPEED* (km/h)	DISTANCE (m)
30	35
40	50
50	65
60	85
70	105
80	130
90	160
100	185
110	220
120	250

SPEED* (mph)	DISTANCE (ft)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

*POSTED SPEED, OFF–PEAK 85TH–PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED

THESE VALUES MAY BE USED TO DETERMINE THE LENGTH OF LONGITUDINAL BUFFER SPACES.

THE DISTANCES IN THE ABOVE CHART REPRESENT THE MINIMAL VALUES FOR BUFFER SPACING.

Source: Table 6C–2 MUTCD LATEST EDITION

NOTES ON WORK ZONE DISTANCES (TR–GEN–2)
NOT TO SCALE

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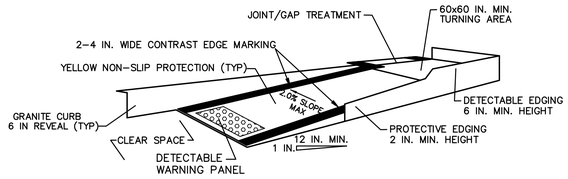
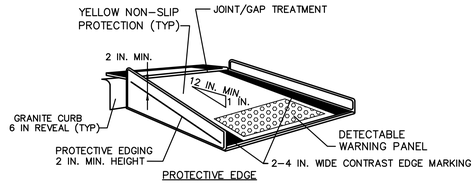
NOTES:

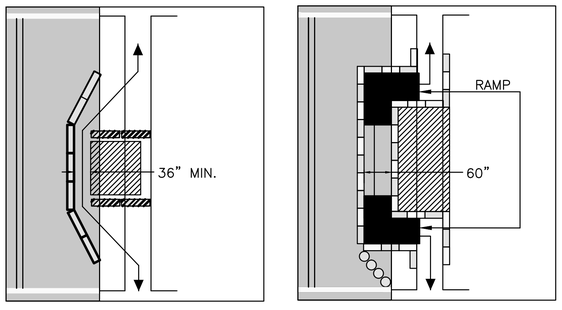
1. CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
3. DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE EXISTING SIDEWALK.
5. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
6. CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
9. 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.
10. 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.



TEMPORARY CURB RAMP-PARALLEL TO CURB



PEDESTRIAN DETAILS (PED-1)
NOT TO SCALE

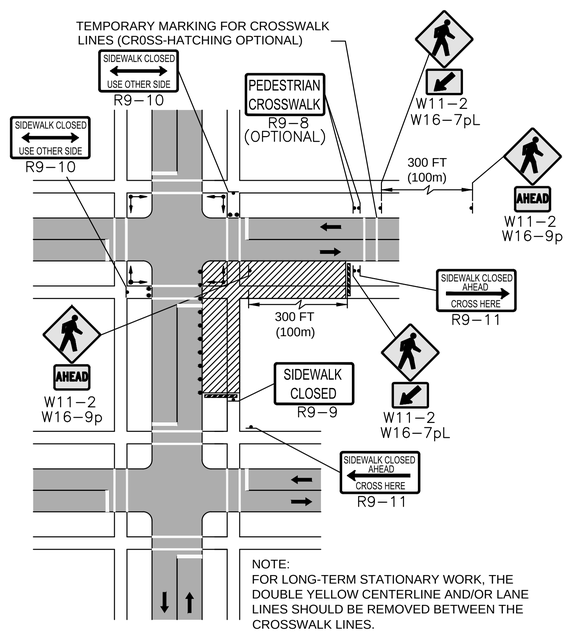


- When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, temporary facilities shall be provided and they shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.
- A pedestrian channelizing device 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

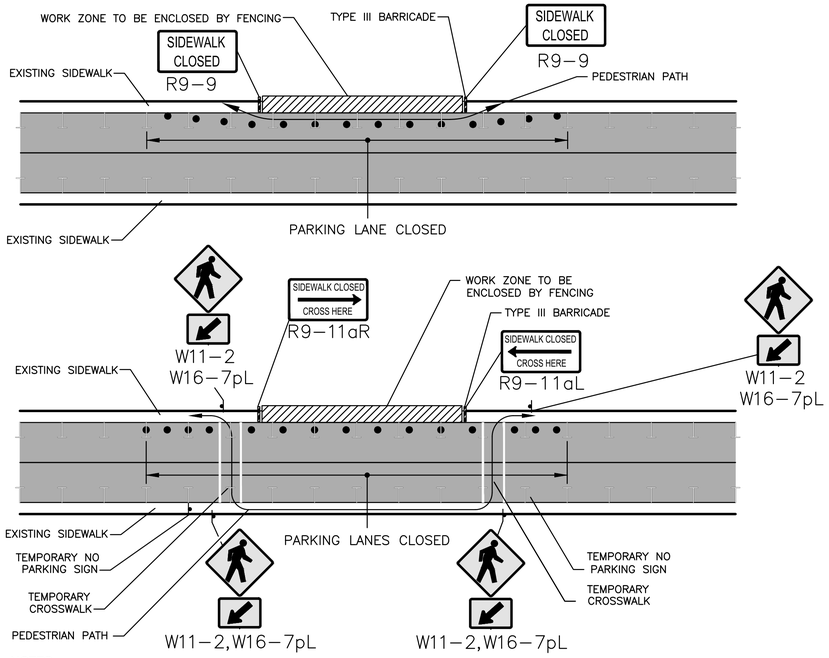
For long term sidewalk closures (at a minimum overnight) a form of speech messaging for pedestrians with visual disabilities shall be provided. Audible information devices such as detectable barriers or barricades and other passive pedestrian activation (motion activated) devices should be considered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

PEDESTRIAN DETAILS (PED-3)
NOT TO SCALE



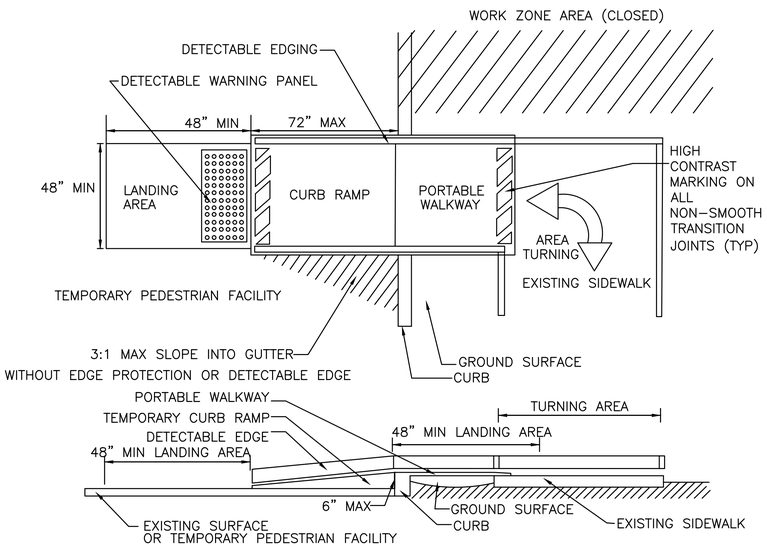
NOTE:
FOR LONG-TERM STATIONARY WORK, THE DOUBLE YELLOW CENTERLINE AND/OR LANE LINES SHOULD BE REMOVED BETWEEN THE CROSSWALK LINES.

PEDESTRIAN DETOUR (PED-6)
NOT TO SCALE



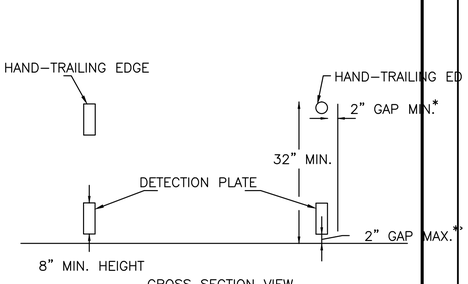
NOTES
1. ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
2. CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN. VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE.
3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
4. IF THE WORK ZONE DOES NOT PERMIT PEDESTRIANS TO TRAVEL ADJACENT TO IT AS SHOWN IN PEDESTRIAN BYPASS TYPE I, TEMPORARY CROSSWALKS WITH APPROPRIATE SIGNS SHOULD 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. TEMPORARY CURB RAMPS WILL BE REQUIRED AT ALL TEMPORARY CROSSWALK LOCATIONS.
5. BYPASS IS TO BE USED IN CONJUCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DIRECTED BY THE ENGINEER.
6. THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THIS WALKWAY EXCEEDS 200 FEET THEN A 5 FOOT X 5 FOOT PASSING ZONE. (FOR SHORT TERM SETUPS < 10 HOURS, THIS CONDITION MAY BE WAIVED. A NOTE WOULD NEED TO BE INCLUDED IN THE TTCP THAT STATES HOW THE CONTRACTOR SHOULD ADDRESS THIS ISSUE.)

PEDESTRIAN BYPASS (PED-7)
NOT TO SCALE



TEMPORARY CURB RAMP-TYPE 2

PEDESTRIAN DETAILS (PED-2)
NOT TO SCALE



CROSS SECTION VIEW

PEDESTRIAN CHANNELIZING DEVICE

NOTES:

* THERE SHALL BE A 2 INCH GAP BETWEEN THE HAND-TRAILING EDGE AND ITS SUPPORT.

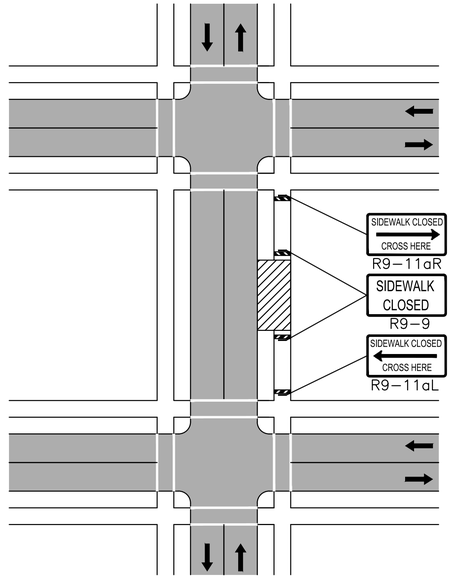
** A MAXIMUM 2 INCH GAP BETWEEN THE BOTTOM OF THE BOTTOM RAIL AND THE SURFACE MAY BE USED TO PROVIDE DRAINAGE.

PEDESTRIAN DETAILS (PED-4)
NOT TO SCALE

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	77	120
PROJECT FILE NO.	606264		

TRAFFIC MANAGEMENT PLAN



NOTE: IF A MINIMUM WIDTH OF 48" OF SOLID SMOOTH UNOBSTRUCTED SURFACE REMAINS ALONG THE WORK AREA THEN THE DETAIL CAN BE DISREGARDED. DELINEATION OF THE WORK AREA WILL STILL BE REQUIRED. All PEDESTRIAN DETOUR ROUTES SHALL BE ADA/MAAB COMPLIANT IN THEIR ENTIRETY.

SIDEWALK CLOSED WITHOUT DETOUR (PED-5)
NOT TO SCALE

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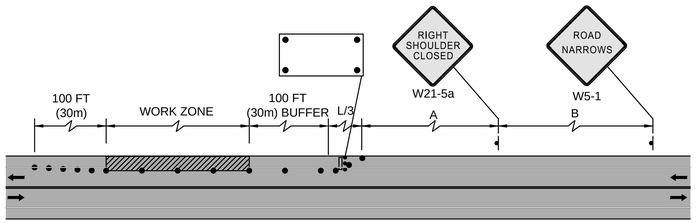
PLYMOUTH
OBERY STREET

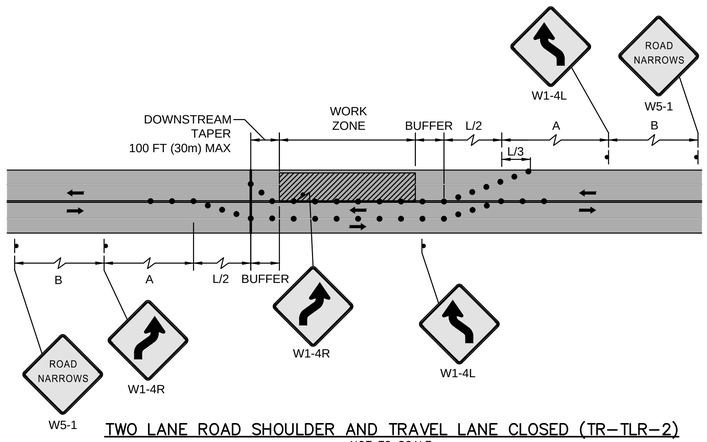
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	78	120
PROJECT FILE NO.	606264		

TRAFFIC MANAGEMENT PLAN

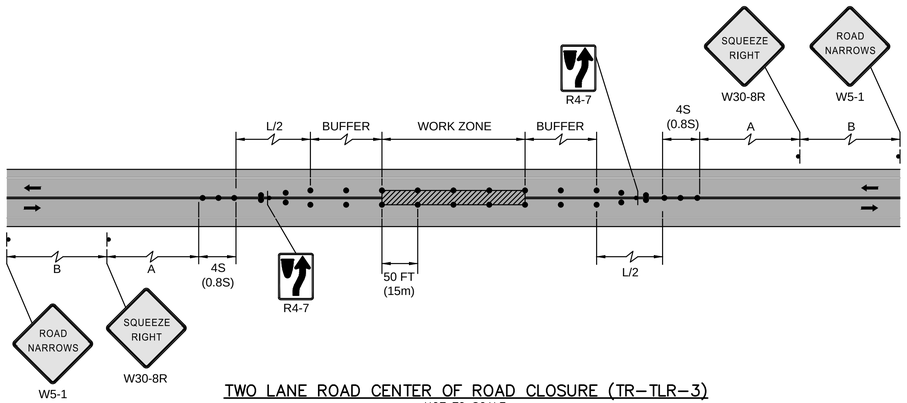
REFLECTORIZED PLASTIC DRUM OR 36" CONE
P/F POLICE/FLAGGER DETAIL
TYPE III BARRICADE
CHANGEABLE MESSAGE SIGN
ARROW BOARD
WORK ZONE
DIRECTION OF TRAFFIC
IMPACT ATTENUATOR
MEDIAN BARRIER
MEDIAN BARRIER WITH WARNING LIGHTS
WORK VEHICLE
TRUCK MOUNTED ATTENUATOR
TRAFFIC OR PEDESTRIAN SIGNAL
SIGN



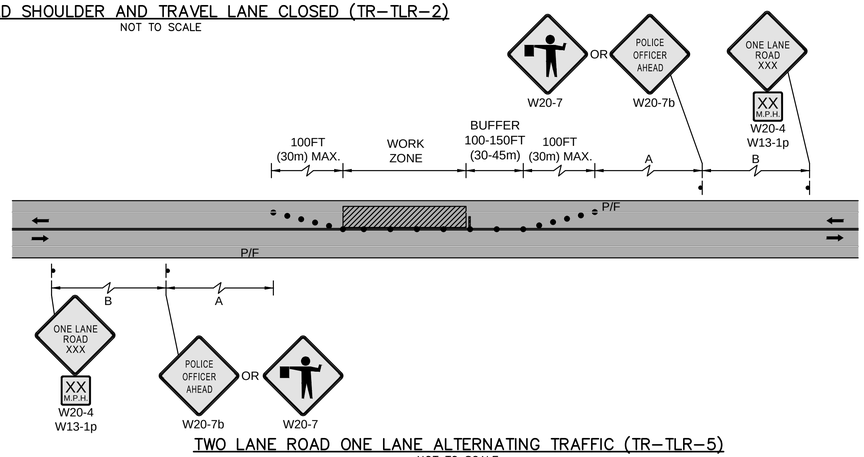
TWO LANE ROAD SHOULDER CLOSED (TR–TLR–1)
NOT TO SCALE



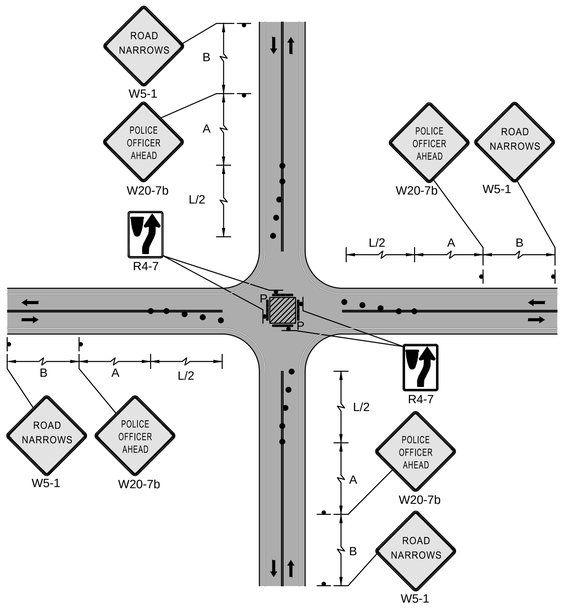
TWO LANE ROAD SHOULDER AND TRAVEL LANE CLOSED (TR–TLR–2)
NOT TO SCALE



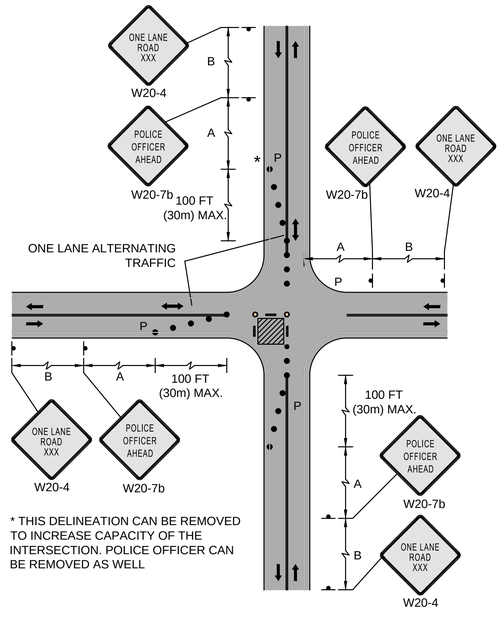
TWO LANE ROAD CENTER OF ROAD CLOSURE (TR–TLR–3)
NOT TO SCALE



TWO LANE ROAD ONE LANE ALTERNATING TRAFFIC (TR–TLR–5)
NOT TO SCALE

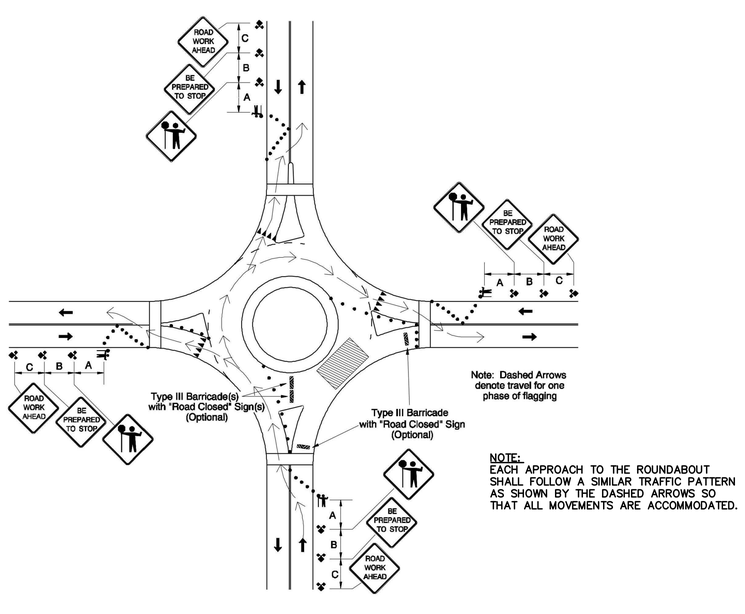


SINGLE LANE APPROACH CENTER CLOSURE (TR–INT–1)
NOT TO SCALE



* THIS DELINEATION CAN BE REMOVED TO INCREASE CAPACITY OF THE INTERSECTION. POLICE OFFICER CAN BE REMOVED AS WELL

SINGLE LANE APPROACH ONE QUADRANT CLOSURE (TR–INT–2)
NOT TO SCALE



NOTE:
EACH APPROACH TO THE ROUNDABOUT SHALL FOLLOW A SIMILAR TRAFFIC PATTERN AS SHOWN BY THE DASHED ARROWS SO THAT ALL MOVEMENTS ARE ACCOMMODATED.

SINGLE LANE ROUNDABOUT PARTIAL CLOSURE
NOT TO SCALE

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PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	79	120
PROJECT FILE NO.	606264		

CONSTRUCTION SIGN SUMMARY

CONSTRUCTION SIGN SUMMARY

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (IN)			NUMBER OF SIGNS REQUIRED	COLOR			UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH (IN)	HEIGHT (IN)		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER		
M4-9BL	30	24	DETOUR ←	(1)	(1)	(1)	2	FLUOR ORANGE	BLACK	BLACK	5	10
M4-9BR	30	24	DETOUR →				2	FLUOR ORANGE	BLACK	BLACK	5	10
MA-R2-10A	48	36	WORK ZONE SPEEDING FINES DOUBLED	(2)	(2)	(2)	7	FLUOR ORANGE	BLACK	BLACK	12	84
								WHITE	BLACK	BLACK		
MA-R2-10E	36	48	END ROAD WORK / DOUBLE FINES END				7	FLUOR ORANGE	BLACK	BLACK	12	84
								WHITE	BLACK	BLACK		
R9-9	24	12	SIDEWALK CLOSED	(1)	(1)	(1)	2	WHITE	BLACK	BLACK	2	4
R9-10	24	12	SIDEWALK CLOSED ← → USE OTHER SIDE				2	WHITE	BLACK	BLACK	2	4
W1-4L	36	36	↰				2	FLUOR ORANGE	BLACK	BLACK	9	18
W1-4R	36	36	↱				2	FLUOR ORANGE	BLACK	BLACK	9	18
W5-1	36	36	ROAD NARROWS				4	FLUOR ORANGE	BLACK	BLACK	9	36
W8-1	36	36	BUMP				4	FLUOR ORANGE	BLACK	BLACK	9	36
W8-3	36	36	PAVEMENT ENDS				4	FLUOR ORANGE	BLACK	BLACK	9	36
W8-8	36	36	ROUGH ROAD				1	FLUOR ORANGE	BLACK	BLACK	9	9
W13-1p	24	24	XX MPH				2	FLUOR ORANGE	BLACK	BLACK	4	8
W20-1	36	36	ROAD WORK AHEAD				7	FLUOR ORANGE	BLACK	BLACK	9	63
W20-4	36	36	ONE LANE ROAD XX FT				4	FLUOR ORANGE	BLACK	BLACK	9	36
W20-7	36	36					4	FLUOR ORANGE	BLACK	BLACK	9	36
MA-W20-7b	36	36	POLICE OFFICER AHEAD	(2)	(2)	(2)	4	FLUOR ORANGE	BLACK	BLACK	9	36
W20-7b	36	36	SHOULDER WORK	(1)	(1)	(1)	3	FLUOR ORANGE	BLACK	BLACK	9	27

NOTES

1. HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING CONFORMING TO SECTION M9.30.0 TYPE III OR IV, OF THE MASSDOT STANDARD SPECIFICATIONS, SHALL BE USED FOR ALL SIGNS.
2. TRAFFIC MANAGEMENT SIGNS SHALL BE RESUED ACCORDING TO CONSTRUCTION SCHEDULE IN ORDER TO MINIMIZE THE TOTAL NUMBER OF SIGNS NEEDED.
3. THE NUMBER OF TEMPORARY CONSTRUCTION SIGNS SHOWN ON THIS SHEET IS A MINIMUM AND MORE MAY BE REQUIRED DEPENDING ON CONSTRUCTION SEQUENCING.

LEGEND

(1) SEE THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD HIGHWAY SIGNS" BY FEDERAL HIGHWAY ADMINISTRATION (LATEST EDITIONS) FOR TEXT DIMENSIONS AND COLOR. SEE ALSO THE "MASSACHUSETTS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

(2) SEE THE "MASSDOT STANDARD SIGNS", LATEST EDITION.

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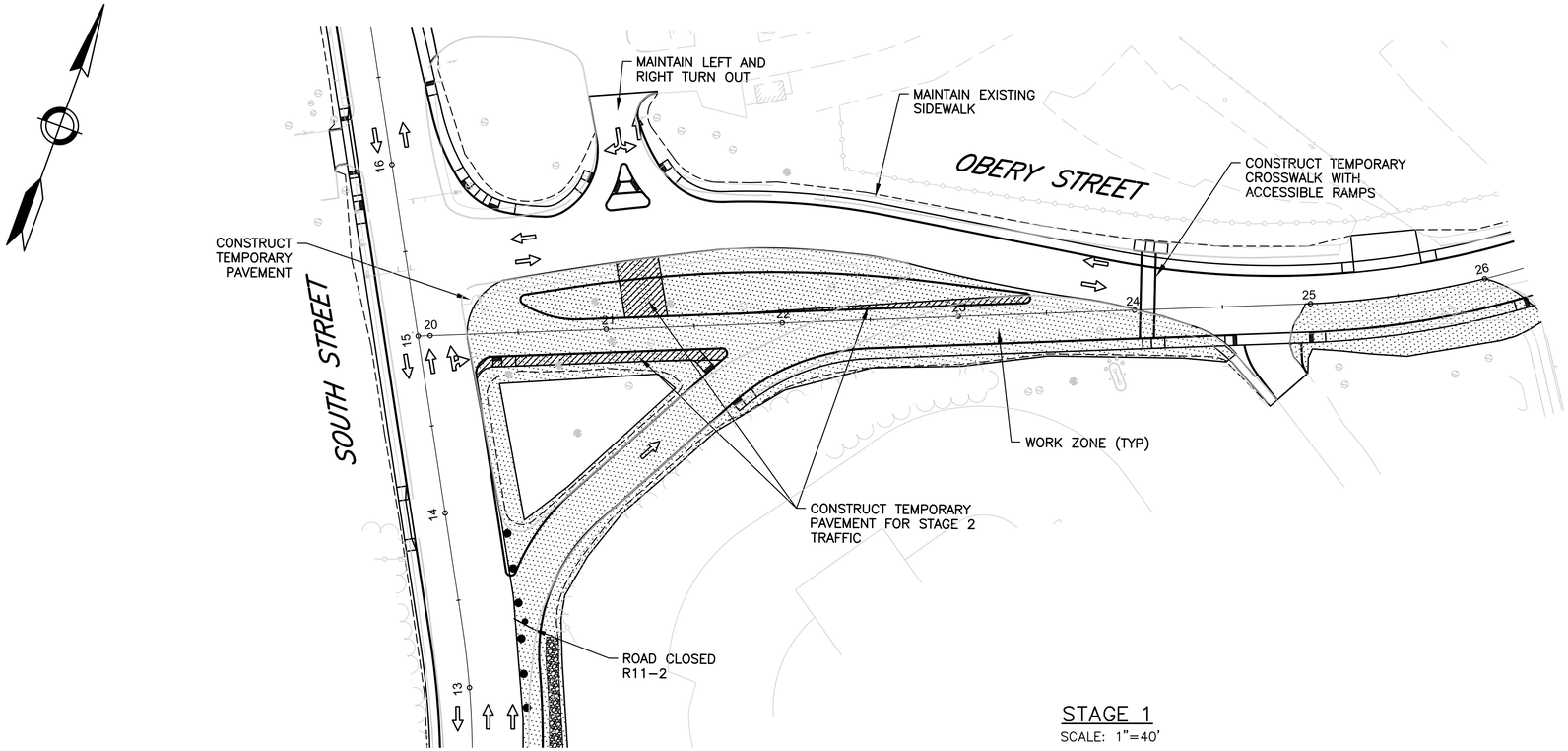
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	80	120
PROJECT FILE NO.	606264		

TRAFFIC MANAGEMENT PLAN
OBERY ST / SOUTH ST INTERSECTION



STAGE 1
SCALE: 1"=40'

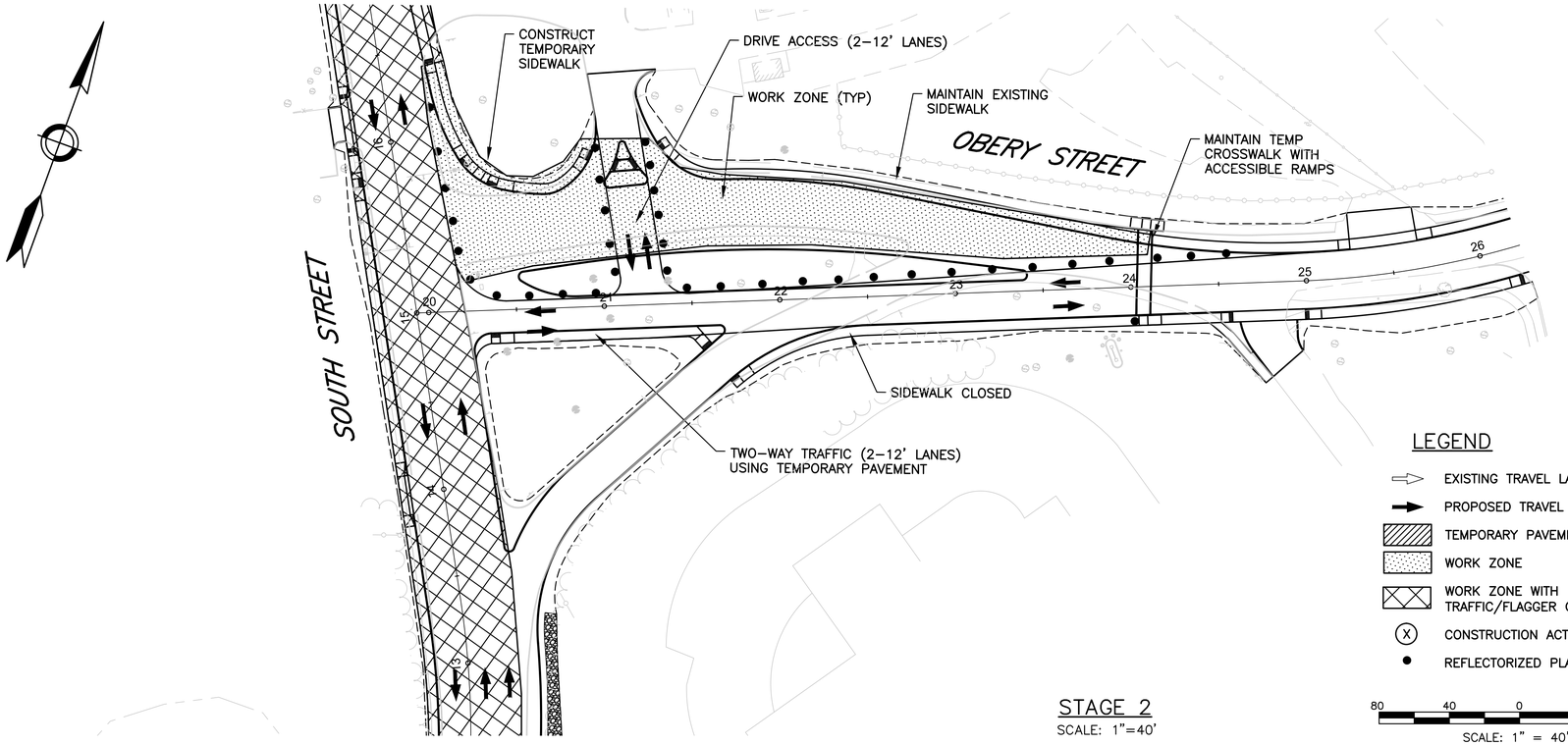
STAGE 1 NOTES

CONSTRUCTION ACTIVITIES:

1. CONSTRUCT EMBANKMENTS/EXCAVATIONS IN THE AREAS OF RELOCATED UTILITIES.
2. RELOCATE UTILITIES.
3. CONSTRUCT TEMPORARY CROSSWALK AND CURB RAMPS ON BOTH SIDES OF OBERY STREET. CLOSE EXISTING SIDEWALK ON THE SOUTH SIDE OF OBERY STREET WEST OF THE TEMPORARY CURB RAMP.
4. REMOVE PEDESTRIAN SIGNAL POLE, HANDHOLE, CURB, AND SIDEWALK AT OBERY STREET (APPROXIMATE STA. 20+29 RT). MAINTAIN EXISTING TRAFFIC CONTROL CABINET. CONSTRUCT TEMPORARY PAVEMENT WIDENING TO ALLOW TRUCK TURNING MOVEMENT FROM SOUTH STREET ONTO OBERY STREET.
5. PRIOR TO WORK ON OBERY STREET, CLOSE SLIP RAMP AND CONSTRUCT PAVEMENT TO BINDER GRADE. OPEN TO TRAFFIC.
6. CONSTRUCT SOUTH SIDE OF OBERY STREET.
7. CONSTRUCT EAST SIDE OF SOUTH STREET.
8. CONSTRUCT TRAFFIC SIGNAL INFRASTRUCTURE OUTSIDE OF EXISTING PAVEMENT.
9. CONSTRUCT TEMPORARY PAVEMENT FOR STAGE 2 TRAFFIC.

TRAFFIC MAINTENANCE:

1. MAINTAIN TRAFFIC ON EXISTING PAVEMENT.
2. MAINTAIN TRAFFIC IN EXISTING LANES ON OBERY STREET. PROVIDE MINIMUM 2 FOOT SHOULDER WIDTH ALONG EXISTING RAISED ISLAND.
3. MAINTAIN TRAFFIC PATTERN ON SOUTH STREET.
4. MAINTAIN EXISTING SIDEWALK ON NORTH SIDE OF OBERY STREET AND ALONG SOUTH STREET.
5. MAINTAIN ALL DRIVEWAY ACCESSES.



STAGE 2
SCALE: 1"=40'

LEGEND

- EXISTING TRAVEL LANE
- PROPOSED TRAVEL LANE
- TEMPORARY PAVEMENT
- WORK ZONE
- WORK ZONE WITH TRAFFIC/FLAGGER CONTROL
- (X) CONSTRUCTION ACTIVITY
- REFLECTORIZED PLASTIC DRUM

80 40 0 40 80 FEET
SCALE: 1" = 40'

STAGE 2 NOTES

CONSTRUCTION ACTIVITIES:

1. CONSTRUCT NORTH SIDE OF OBERY STREET.
2. CONSTRUCT TEMPORARY SIDEWALK IN NORTHEASTERN CORNER OF OBERY STREET AND SOUTH STREET INTERSECTION.
3. CONSTRUCT SOUTH STREET AND SIDEWALK UTILIZING FLAGGING.

TRAFFIC MAINTENANCE:

1. SHIFT TRAFFIC TO PROPOSED AND TEMPORARY PAVEMENT ON OBERY STREET.
2. MAINTAIN ONE NORTHBOUND AND ONE SOUTHBOUND LANE ON SOUTH STREET.
3. MAINTAIN ALL DRIVEWAY ACCESSES.
4. MAINTAIN SIDEWALK ON NORTH SIDE OF OBERY STREET. PEDESTRIAN TO USE TEMPORARY SIDEWALK AT INTERSECTION OF OBERY STREET AND SOUTH STREET.

STAGE 3 NOTES

CONSTRUCTION ACTIVITIES:

1. COMPLETE CONSTRUCTION OF RAISED ISLANDS.
2. COMPLETE CONSTRUCTION OF SIDEWALKS AND ACCESSIBLE RAMPS.
3. COMPLETE PAVING.
4. COMPLETE SIGNALS.
5. INSTALL TRAFFIC SIGNS AND PAVEMENT MARKINGS.

TRAFFIC MAINTENANCE:

1. OBERY STREET TRAFFIC ON PROPOSED LAYOUT.
2. SHIFT TRAFFIC TO PROPOSED LAYOUT ON SOUTH STREET AFTER SIGNALS ARE COMPLETE.

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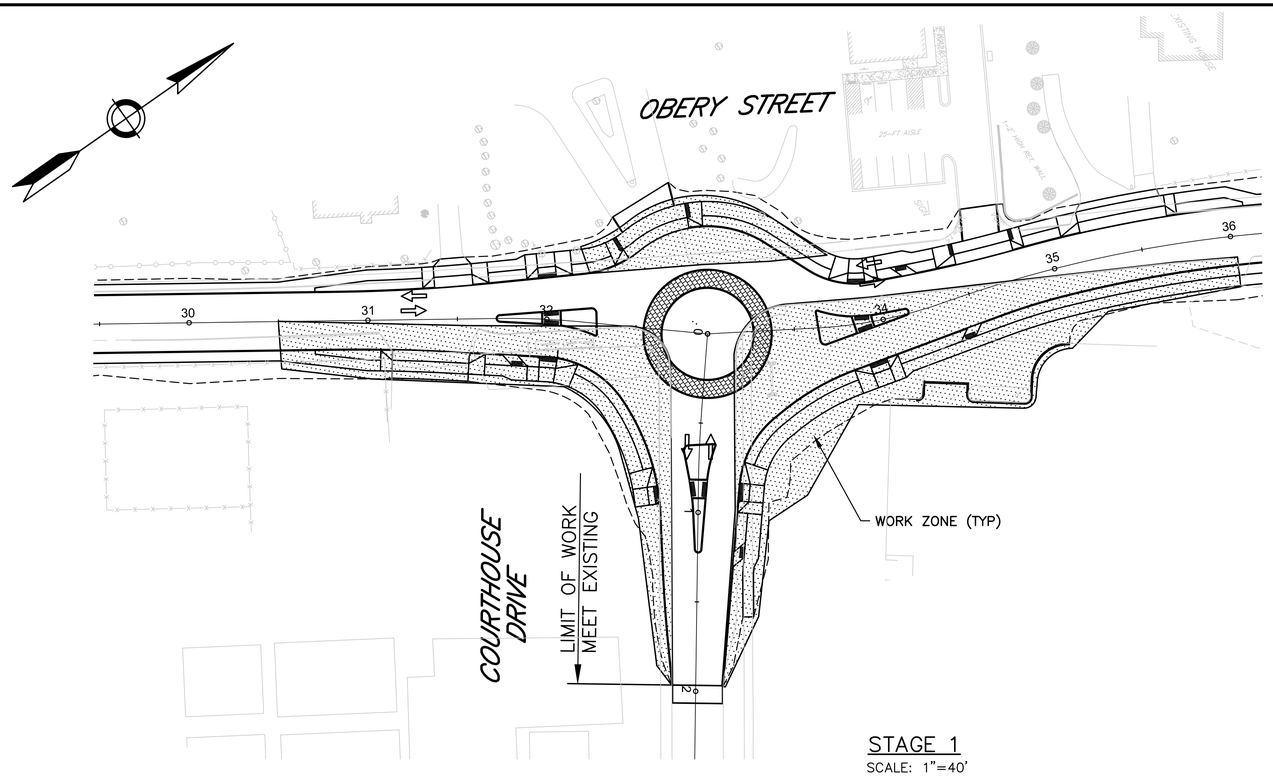
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	81	120
PROJECT FILE NO.	606264		

TRAFFIC MANAGEMENT PLAN
OBERY ST / COURTHOUSE DR ROUNDABOUT



STAGE 1
SCALE: 1"=40'

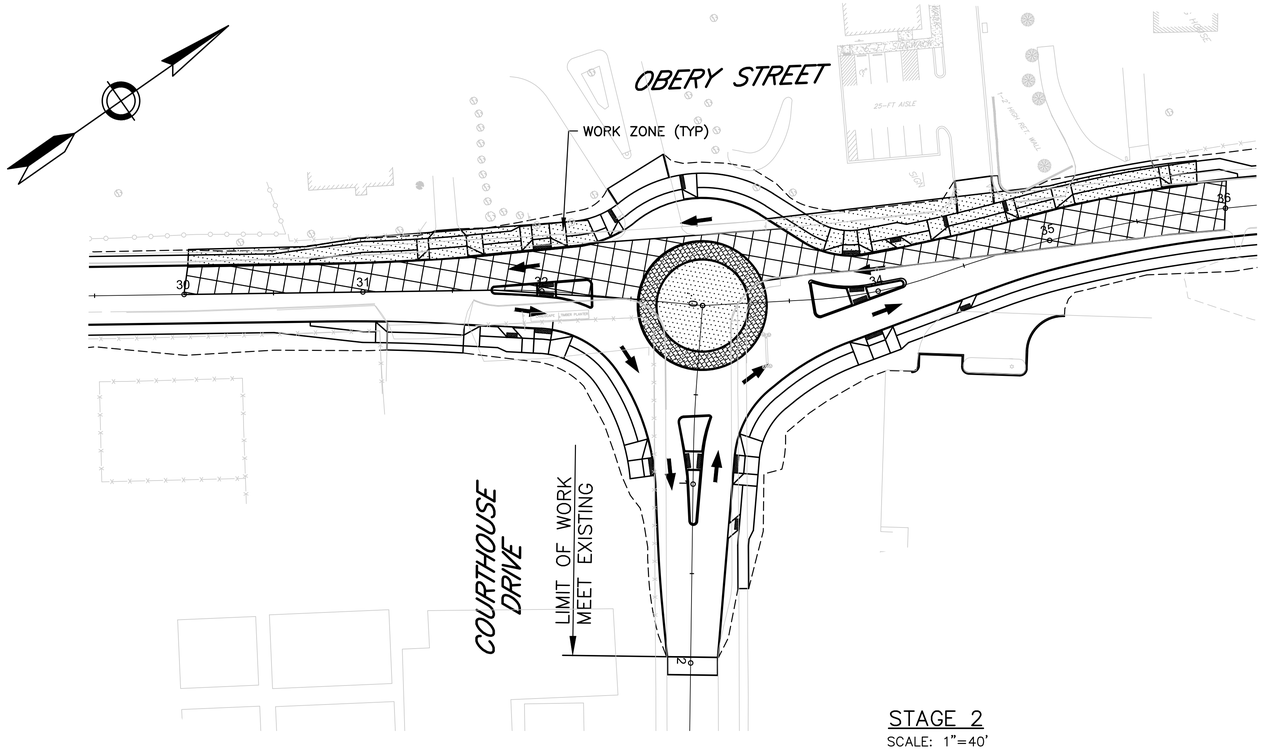
STAGE 1 NOTES

CONSTRUCTION ACTIVITIES:

1. CONSTRUCT EMBANKMENTS/EXCAVATIONS IN THE AREAS OF RELOCATED UTILITIES.
2. RELOCATE UTILITIES.
3. CONSTRUCT SOUTH SIDE OF OBERY STREET.
4. CONSTRUCT ROUNDABOUT TO TOP OF DENSE GRADED CRUSHED STONE FOR SUBBASE.
5. CONSTRUCT TEMPORARY DENSE GRADED CRUSHED STONE FOR SUBBASE ON PROPOSED ISLANDS FOR STAGE 2 TRAFFIC.

TRAFFIC MAINTENANCE:

1. SHIFT TRAFFIC ON EXISTING PAVEMENT TO NORTH SIDE.
2. MAINTAIN COURTHOUSE DRIVE ACCESS ON EXISTING PAVEMENT.
3. MAINTAIN SIDEWALK ON NORTH SIDE OF OBERY STREET.
4. MAINTAIN ALL DRIVE ACCESSES.



STAGE 2
SCALE: 1"=40'

STAGE 2 NOTES

CONSTRUCTION ACTIVITIES:

1. CONSTRUCT NORTH SIDE OF OBERY STREET.
2. CONSTRUCT REMAINDER OF ROUNDABOUT TO TOP OF DENSE GRADED CRUSHED STONE FOR SUBBASE USING FLAGGER CONTROL.
3. CONSTRUCT CENTER AND APRON OF ROUNDABOUT.

TRAFFIC MAINTENANCE:

1. SHIFT TRAFFIC TO TOP OF DENSE GRADED CRUSHED STONE FOR SUBBASE CONSTRUCTED IN STAGE 1.
2. MAINTAIN ALL DRIVE ACCESSES.
3. MAINTAIN PEDESTRIANS ON PROPOSED SIDEWALK CONSTRUCTED ON SOUTH SIDE.

LEGEND

- EXISTING TRAVEL LANE
- PROPOSED TRAVEL LANE
- WORK ZONE WITH TRAFFIC/FLAGGER CONTROL
- WORK ZONE
- (X) CONSTRUCTION ACTIVITY
- REFLECTORIZED PLASTIC DRUM

80 40 0 40 80 FEET
SCALE: 1" = 40'

STAGE 3 NOTES

CONSTRUCTION ACTIVITIES:

1. CONSTRUCT RAISED ISLANDS.
2. COMPLETE PAVING.
3. INSTALL SIGNING AND PAVEMENT MARKINGS.

TRAFFIC MAINTENANCE:

1. TRAFFIC ON PROPOSED LAYOUT.
2. FLAGGERS USED FOR PAVING OPERATIONS OF ROUNDABOUT, SEE TRAFFIC MANAGEMENT DETAILS SHEET.

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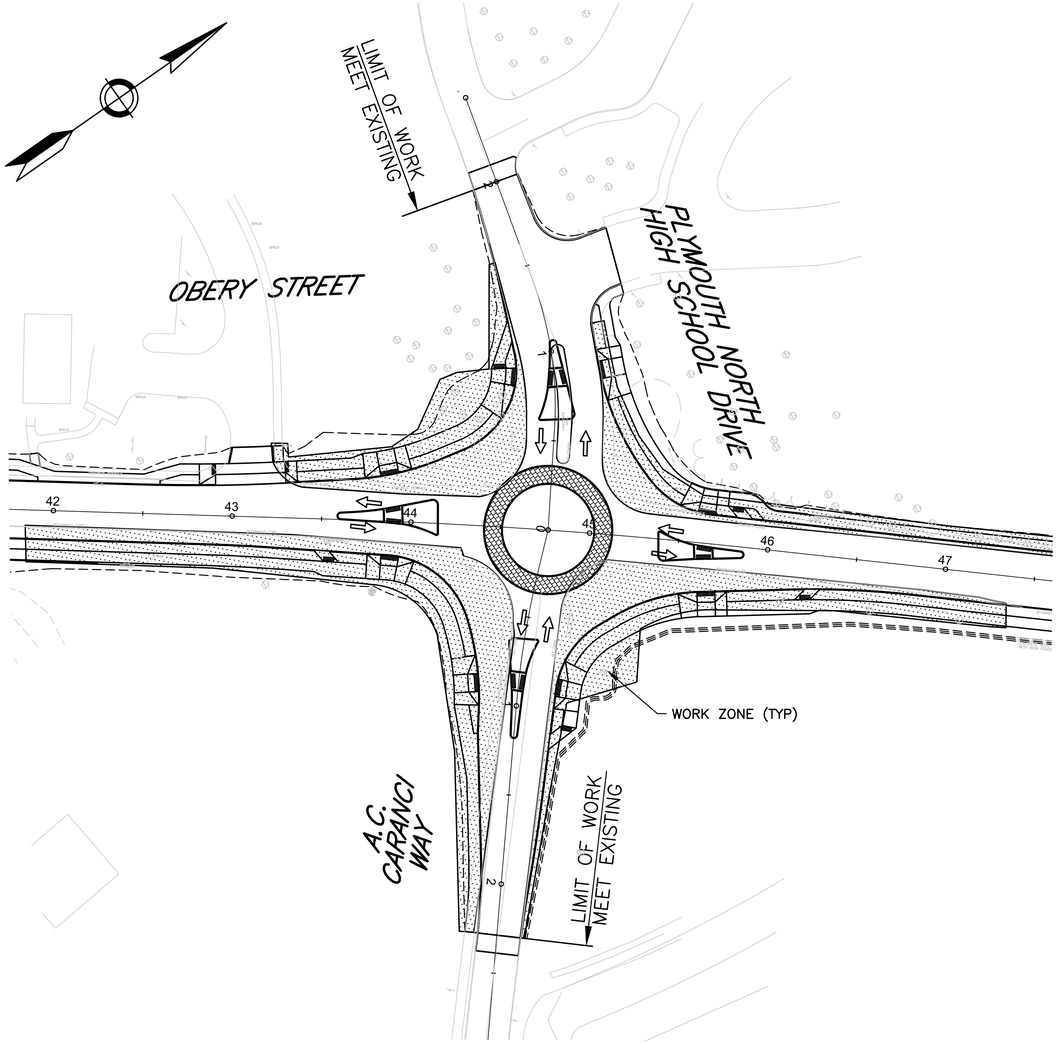
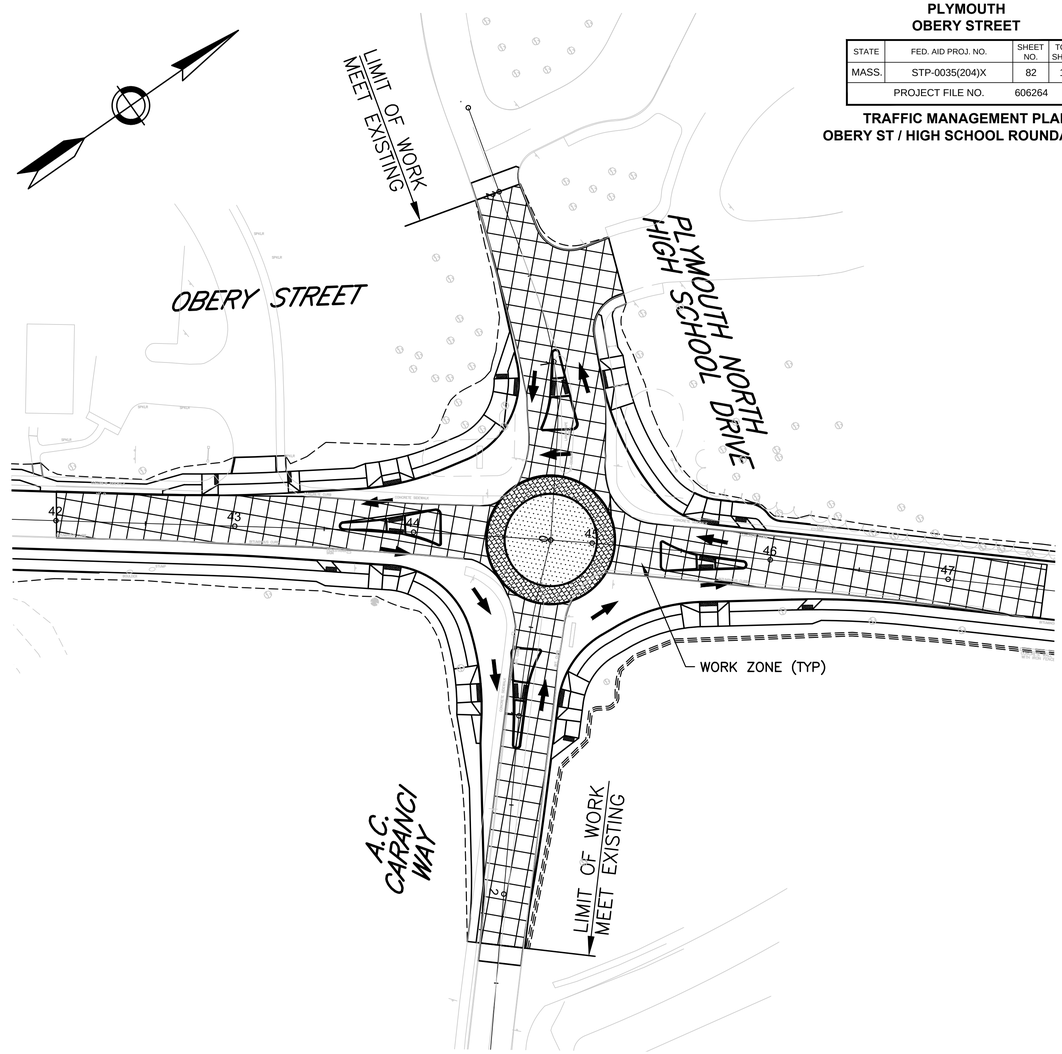
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	82	120
PROJECT FILE NO.	606264		

TRAFFIC MANAGEMENT PLAN
OBERY ST / HIGH SCHOOL ROUNDABOUT



STAGE 1
SCALE: 1"=40'



STAGE 2
SCALE: 1"=40'

STAGE 1 NOTES

CONSTRUCTION ACTIVITIES:

1. CONSTRUCT EMBANKMENTS/EXCAVATIONS IN THE AREAS OF RELOCATED UTILITIES.
2. RELOCATE UTILITIES.
3. CONSTRUCT SOUTH AND NORTH SIDE OF OBERY STREET.
4. CONSTRUCT ROUNDABOUT (OUTSIDE OF EXISTING PAVEMENT) TO TOP OF DENSE GRADED CRUSHED STONE FOR SUBBASE.
5. CONSTRUCT TEMPORARY DENSE GRADED CRUSHED STONE FOR SUBBASE ON PROPOSED ISLANDS PRIOR TO STAGE 2 TRAFFIC.

TRAFFIC MAINTENANCE:

1. SHIFT TRAFFIC ON EXISTING PAVEMENT TO NORTH SIDE.
2. MAINTAIN PLYMOUTH NORTH HIGH SCHOOL DRIVE AND A.C. CARANCI WAY ON EXISTING PAVEMENT.
3. MAINTAIN PEDESTRIAN ACCESS ON EXISTING OR PROPOSED SIDEWALK AT ALL TIMES.

LEGEND

- EXISTING TRAVEL LANE
- PROPOSED TRAVEL LANE
- WORK ZONE WITH TRAFFIC/FLAGGER CONTROL
- WORK ZONE
- CONSTRUCTION ACTIVITY
- REFLECTORIZED PLASTIC DRUM

80 40 0 40 80 FEET
SCALE: 1" = 40'

STAGE 2 NOTES

CONSTRUCTION ACTIVITIES:

1. CONSTRUCT REMAINDER OF ROUNDABOUT ON TOP OF DENSE GRADED CRUSHED STONE FOR SUBBASE USING FLAGGER CONTROL.
2. CONSTRUCT CENTER AND APRON OF ROUNDABOUT.

TRAFFIC MAINTENANCE:

1. SHIFT TRAFFIC TO TOP OF DENSE GRADED CRUSHED STONE FOR SUBBASE.
2. MAINTAIN ALL DRIVEWAY ACCESSES.
3. MAINTAIN PEDESTRIANS ON PROPOSED SIDEWALKS.

STAGE 3 NOTES

CONSTRUCTION ACTIVITIES:

1. CONSTRUCT RAISED ISLANDS.
2. COMPLETE PAVING.
3. INSTALL SIGNING AND PAVEMENT MARKINGS.

TRAFFIC MAINTENANCE:

1. TRAFFIC ON PROPOSED LAYOUT.
2. FLAGGERS REQUIRED FOR PAVING OPERATIONS OF ROUNDABOUT, SEE TRAFFIC MANAGEMENT DETAILS SHEET.

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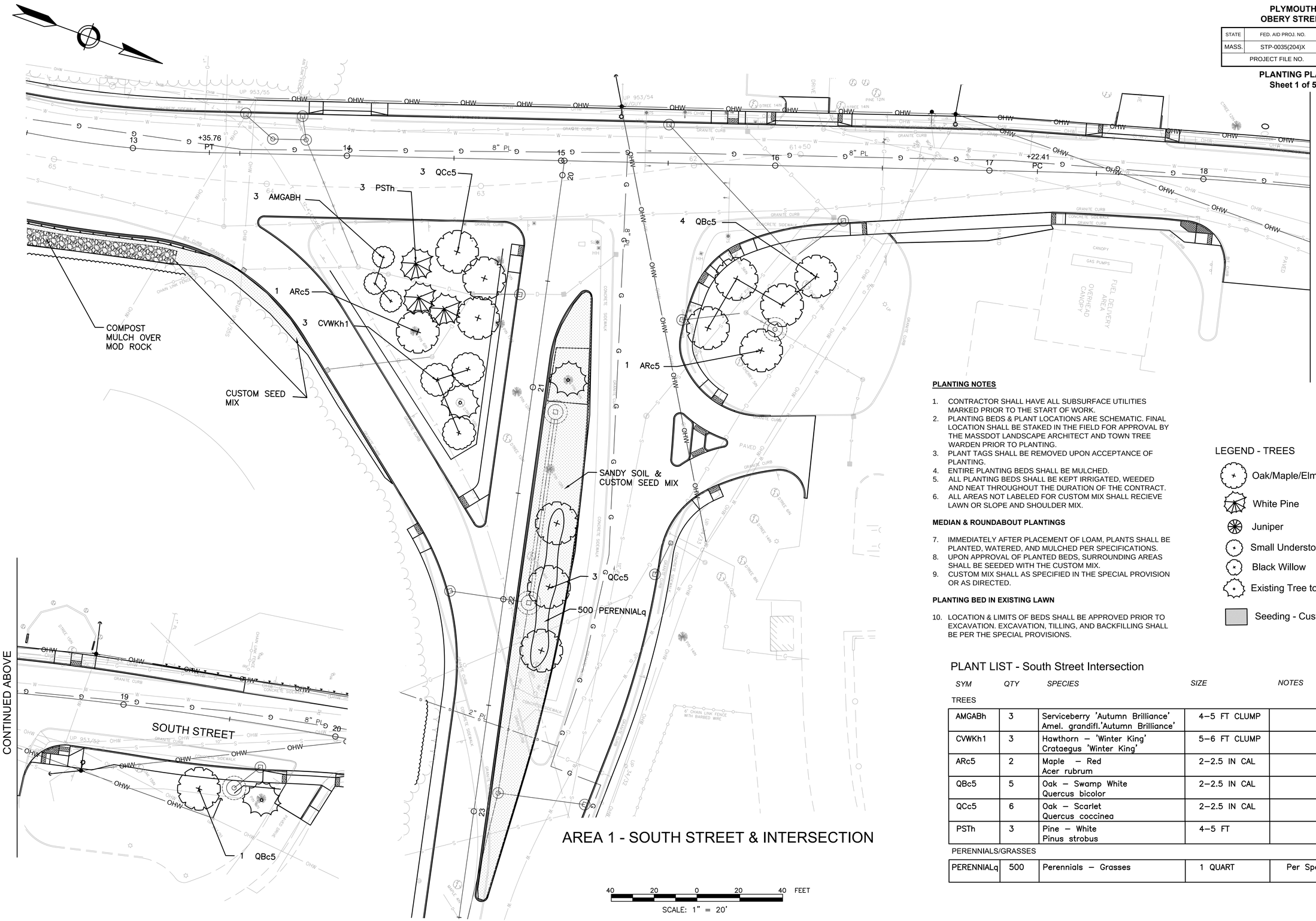
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	83	120
PROJECT FILE NO.	606264		

PLANTING PLAN
Sheet 1 of 5



PLANTING NOTES

1. CONTRACTOR SHALL HAVE ALL SUBSURFACE UTILITIES MARKED PRIOR TO THE START OF WORK.
2. PLANTING BEDS & PLANT LOCATIONS ARE SCHEMATIC. FINAL LOCATION SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE MASSDOT LANDSCAPE ARCHITECT AND TOWN TREE WARDEN PRIOR TO PLANTING.
3. PLANT TAGS SHALL BE REMOVED UPON ACCEPTANCE OF PLANTING.
4. ENTIRE PLANTING BEDS SHALL BE MULCHED.
5. ALL PLANTING BEDS SHALL BE KEPT IRRIGATED, WEEDED AND NEAT THROUGHOUT THE DURATION OF THE CONTRACT.
6. ALL AREAS NOT LABELED FOR CUSTOM MIX SHALL RECIEVE LAWN OR SLOPE AND SHOULDER MIX.

MEDIAN & ROUNDABOUT PLANTINGS

7. IMMEDIATELY AFTER PLACEMENT OF LOAM, PLANTS SHALL BE PLANTED, WATERED, AND MULCHED PER SPECIFICATIONS.
8. UPON APPROVAL OF PLANTED BEDS, SURROUNDING AREAS SHALL BE SEEDED WITH THE CUSTOM MIX.
9. CUSTOM MIX SHALL AS SPECIFIED IN THE SPECIAL PROVISION OR AS DIRECTED.

PLANTING BED IN EXISTING LAWN

10. LOCATION & LIMITS OF BEDS SHALL BE APPROVED PRIOR TO EXCAVATION. EXCAVATION, TILLING, AND BACKFILLING SHALL BE PER THE SPECIAL PROVISIONS.

LEGEND - TREES

- Oak/Maple/Elm
- White Pine
- Juniper
- Small Understory Tree
- Black Willow
- Existing Tree to Remain
- Seeding - Custom Mix

PLANT LIST - South Street Intersection

SYM	QTY	SPECIES	SIZE	NOTES
TREES				
AMGABh	3	Serviceberry 'Autumn Brilliance' Amel. grandifl.'Autumn Brilliance'	4–5 FT CLUMP	
CVWKh1	3	Hawthorn – 'Winter King' Crataegus 'Winter King'	5–6 FT CLUMP	
ARc5	2	Maple – Red Acer rubrum	2–2.5 IN CAL	
QBc5	5	Oak – Swamp White Quercus bicolor	2–2.5 IN CAL	
QCc5	6	Oak – Scarlet Quercus coccinea	2–2.5 IN CAL	
PSTh	3	Pine – White Pinus strobus	4–5 FT	
PERENNIALS/GRASSES				
PERENNIALq	500	Perennials – Grasses	1 QUART	Per Specs

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PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	84	120
PROJECT FILE NO.	606264		

PLANTING PLAN
Sheet 2 of 5

PLANTING NOTES

1. CONTRACTOR SHALL HAVE ALL SUBSURFACE UTILITIES MARKED PRIOR TO THE START OF WORK.
2. PLANTING BEDS & PLANT LOCATIONS ARE SCHEMATIC. FINAL LOCATION SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE MASSDOT LANDSCAPE ARCHITECT AND TOWN TREE WARDEN PRIOR TO PLANTING.
3. PLANT TAGS SHALL BE REMOVED UPON ACCEPTANCE OF PLANTING.
4. ENTIRE PLANTING BEDS SHALL BE MULCHED.
5. ALL PLANTING BEDS SHALL BE KEPT IRRIGATED, WEEDED AND NEAT THROUGHOUT THE DURATION OF THE CONTRACT.
6. ALL AREAS NOT LABELED FOR CUSTOM MIX SHALL RECIEVE LAWN OR SLOPE AND SHOULDER MIX.

MEDIAN & ROUNDABOUT PLANTINGS

7. IMMEDIATELY AFTER PLACEMENT OF LOAM, PLANTS SHALL BE PLANTED, WATERED, AND MULCHED PER SPECIFICATIONS.
8. UPON APPROVAL OF PLANTED BEDS, SURROUNDING AREAS SHALL BE SEEDED WITH THE CUSTOM MIX.
9. CUSTOM MIX SHALL AS SPECIFIED IN THE SPECIAL PROVISION OR AS DIRECTED.

PLANTING BED IN EXISTING LAWN

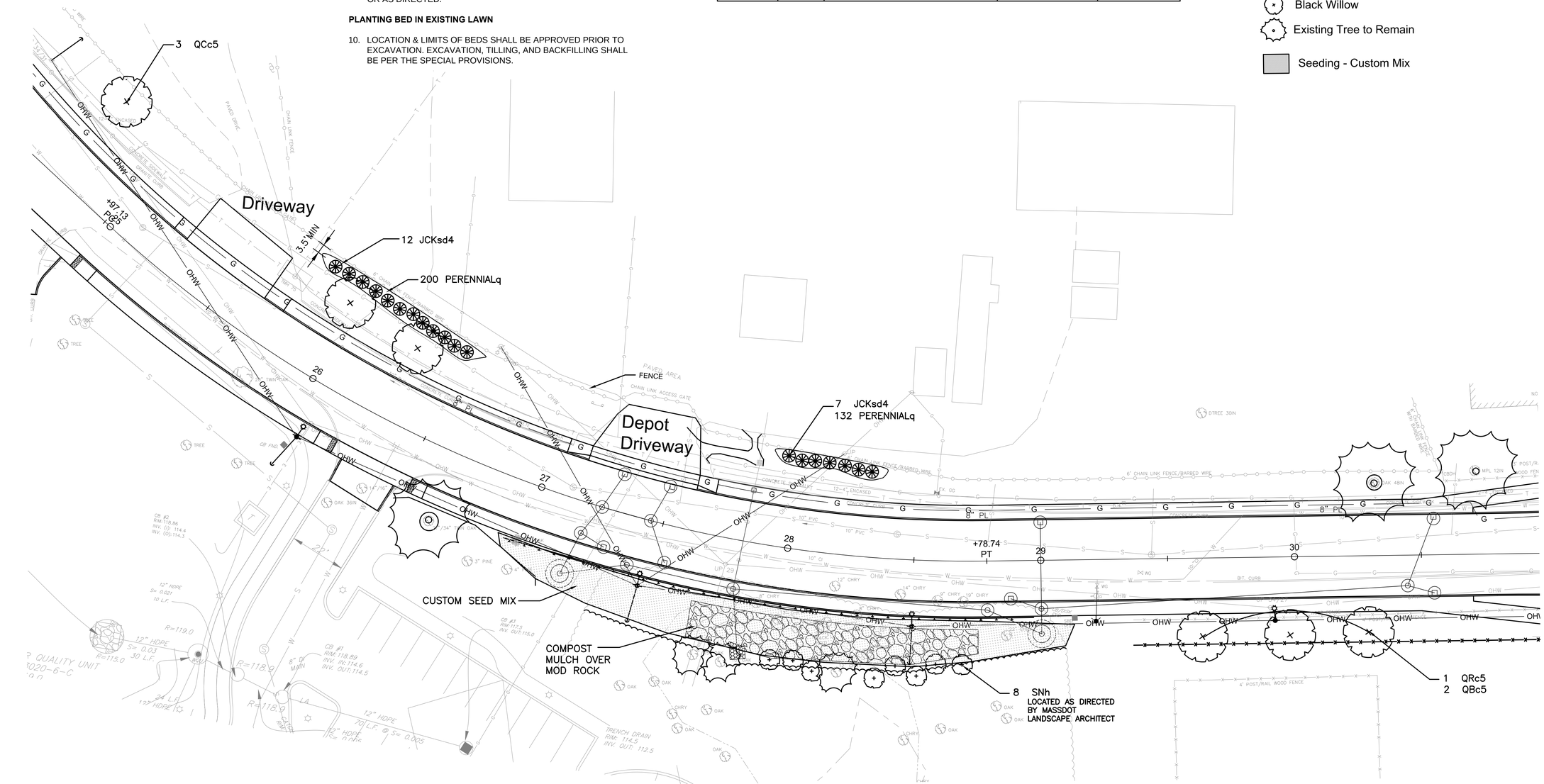
10. LOCATION & LIMITS OF BEDS SHALL BE APPROVED PRIOR TO EXCAVATION. EXCAVATION, TILLING, AND BACKFILLING SHALL BE PER THE SPECIAL PROVISIONS.

PLANT LIST- DEPOT

SYM	QTY	SPECIES	SIZE	NOTES
TREES				
QBc5	2	Oak – Swamp White Quercus bicolor	2–2.5 IN CAL	
QCc5	3	Oak – Scarlet Quercus coccinea	2–2.5 IN CAL	
QRc5	1	Oak – Red Quercus rubrum	2–2.5 IN CAL	
SNh	8	Willow – Black Salix nigra	4–5 FT	field located
JCKsd4	19	Juniper – "Keteleeri" Juniperus chinensis "Keteleeri"	3–4 FT	
PERENNIALS/GRASSES				
PERENNIALq	332	Perennials – Grasses	1 QUART	Per specs

LEGEND - TREES

- Oak/Maple/Elm
- White Pine
- Juniper
- Small Understory Tree
- Black Willow
- Existing Tree to Remain
- Seeding - Custom Mix



AREA 2 - MASSDOT DEPOT

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

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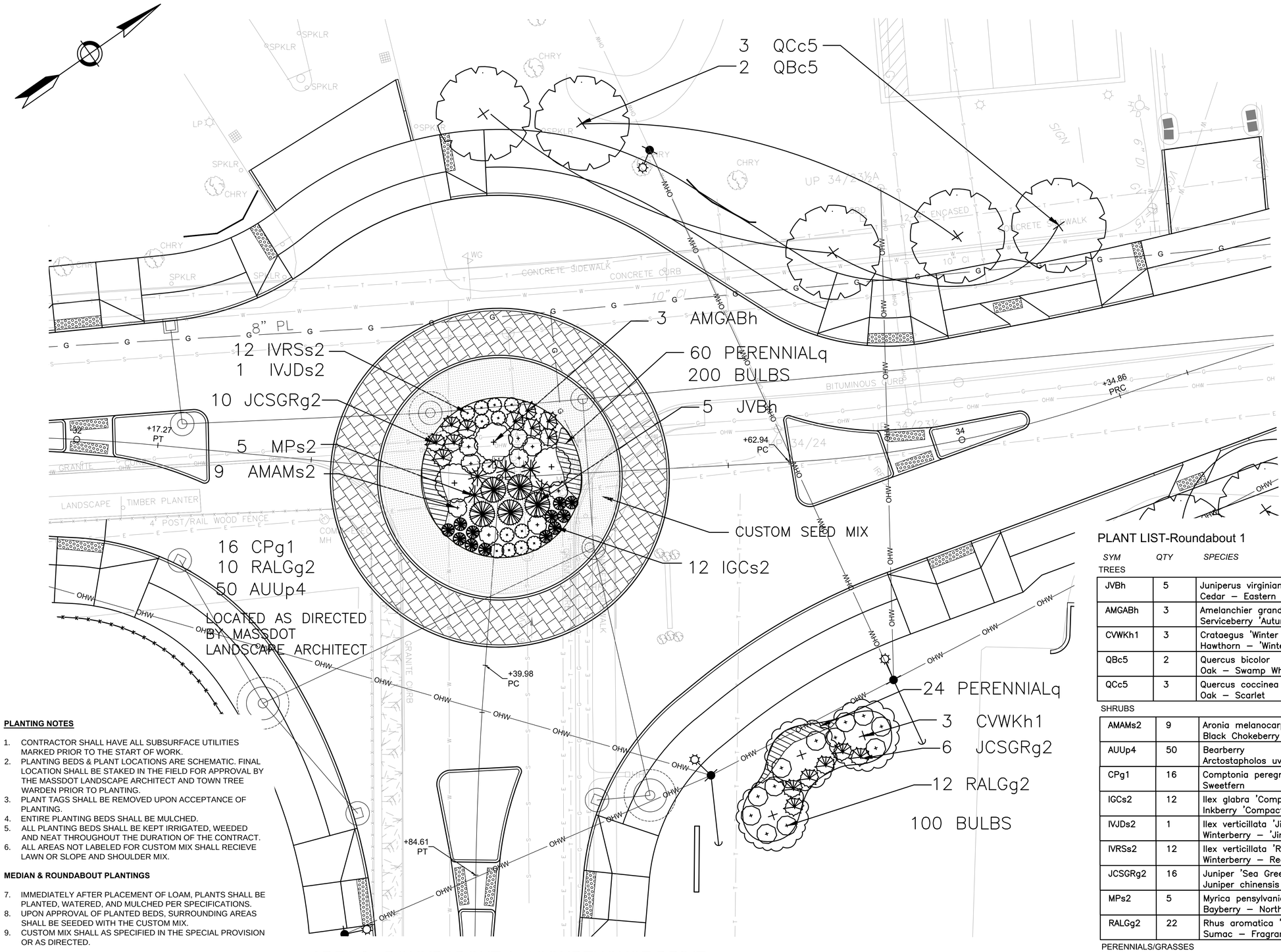
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	85	120
PROJECT FILE NO.	606264		

LANDSCAPE PLAN
Sheet 3 of 5



AREA 3 - ROUNDABOUT 1 (COURTHOUSE DRIVE)

40 20 0 20 40 FEET
SCALE: 1" = 10'

LEGEND - TREES

- Oak/Maple/Elm
- White Pine
- Juniper
- Small Understory Tree
- Black Willow
- Existing Tree to Remain
- Seeding - Custom Mix

PLANT LIST-Roundabout 1

SYM	QTY	SPECIES	SIZE	NOTES
TREES				
JVBh	5	Juniperus virginiana 'Burkii' Cedar – Eastern Red 'Burkii'	4–5 FT	
AMGABh	3	Amelanchier grand. 'Autumn Brill.' Serviceberry 'Autumn Brilliance'	4–5 FT CLUMP	
CVWKh1	3	Crataegus 'Winter King' Hawthorn – 'Winter King'	5–6 FT CLUMP	
QBc5	2	Quercus bicolor Oak – Swamp White	2–2.5 IN CAL	
QCc5	3	Quercus coccinea Oak – Scarlet	2–2.5 IN CAL	
SHRUBS				
AMAMs2	9	Aronia melanocarpa 'Autumn Magic' Black Chokeberry 'Autumn Magic'	2–2.5 FT	
AUUp4	50	Bearberry Arctostapholos uva ursii	4 InchPot	
CPg1	16	Comptonia peregrina Sweetfern	1 Gallon	
IGCs2	12	Ilex glabra 'Compacta' Inkberry 'Compacta'	2–2.5 FT	
IVJDs2	1	Ilex verticillata 'Jim Dandy' (m) Winterberry – 'Jim Dandy' (m)	2–2.5 FT	
IVRSs2	12	Ilex verticillata 'Red Sprite' (f) Winterberry – Red Sprite (f)	2–2.5 FT	
JCSGRg2	16	Juniper 'Sea Green' Juniper chinensis 'Sea Green'	2 Gallon	
MPs2	5	Myrica pensylvanica Bayberry – Northern	2–2.5 FT	
RALGg2	22	Rhus aromatica 'Gro–Low' Sumac – Fragrant 'Gro–Low'	2 Gallon	
PERENNIALS/GRASSES				
PERENNIALq	84	Perennials Perennials	1 Quart	Per specs
BULBS	300	Bulbs Bulbs	Top	

PLANTING NOTES

1. CONTRACTOR SHALL HAVE ALL SUBSURFACE UTILITIES MARKED PRIOR TO THE START OF WORK.
2. PLANTING BEDS & PLANT LOCATIONS ARE SCHEMATIC. FINAL LOCATION SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE MASSDOT LANDSCAPE ARCHITECT AND TOWN TREE WARDEN PRIOR TO PLANTING.
3. PLANT TAGS SHALL BE REMOVED UPON ACCEPTANCE OF PLANTING.
4. ENTIRE PLANTING BEDS SHALL BE MULCHED.
5. ALL PLANTING BEDS SHALL BE KEPT IRRIGATED, WEEDED AND NEAT THROUGHOUT THE DURATION OF THE CONTRACT.
6. ALL AREAS NOT LABELED FOR CUSTOM MIX SHALL RECIEVE LAWN OR SLOPE AND SHOULDER MIX.

MEDIAN & ROUNDABOUT PLANTINGS

7. IMMEDIATELY AFTER PLACEMENT OF LOAM, PLANTS SHALL BE PLANTED, WATERED, AND MULCHED PER SPECIFICATIONS.
8. UPON APPROVAL OF PLANTED BEDS, SURROUNDING AREAS SHALL BE SEEDED WITH THE CUSTOM MIX.
9. CUSTOM MIX SHALL AS SPECIFIED IN THE SPECIAL PROVISION OR AS DIRECTED.

PLANTING BED IN EXISTING LAWN

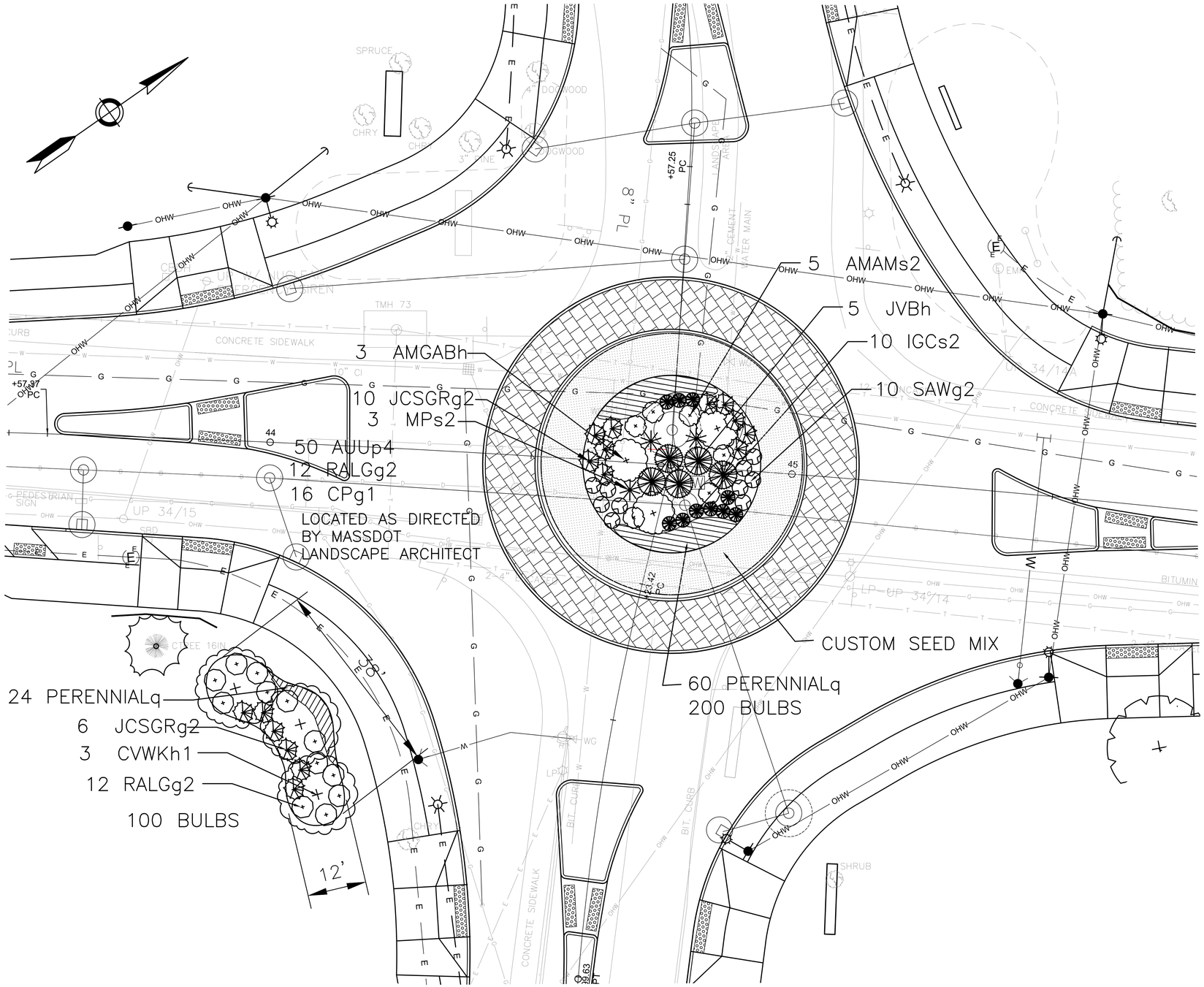
10. LOCATION & LIMITS OF BEDS SHALL BE APPROVED PRIOR TO EXCAVATION. EXCAVATION, TILLING, AND BACKFILLING SHALL BE PER THE SPECIAL PROVISIONS.

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\83-86 Landscape Revised 10-01-2018.dwg October 01, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	86	120
PROJECT FILE NO.	606264		

LANDSCAPE PLAN
Sheet 4 of 5



AREA 4 - ROUNDABOUT 2 (HIGH SCHOOL / A.C. CARANCI WAY)

PLANTING NOTES

1. CONTRACTOR SHALL HAVE ALL SUBSURFACE UTILITIES MARKED PRIOR TO THE START OF WORK.
2. PLANTING BEDS & PLANT LOCATIONS ARE SCHEMATIC. FINAL LOCATION SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE MASSDOT LANDSCAPE ARCHITECT AND TOWN TREE WARDEN PRIOR TO PLANTING.
3. PLANT TAGS SHALL BE REMOVED UPON ACCEPTANCE OF PLANTING.
4. ENTIRE PLANTING BEDS SHALL BE MULCHED.
5. ALL PLANTING BEDS SHALL BE KEPT IRRIGATED, WEEDED AND NEAT THROUGHOUT THE DURATION OF THE CONTRACT.
6. ALL AREAS NOT LABELED FOR CUSTOM MIX SHALL RECIEVE LAWN OR SLOPE AND SHOULDER MIX.

MEDIAN & ROUNDABOUT PLANTINGS

7. IMMEDIATELY AFTER PLACEMENT OF LOAM, PLANTS SHALL BE PLANTED, WATERED, AND MULCHED PER SPECIFICATIONS.
8. UPON APPROVAL OF PLANTED BEDS, SURROUNDING AREAS SHALL BE SEEDED WITH THE CUSTOM MIX.
9. CUSTOM MIX SHALL AS SPECIFIED IN THE SPECIAL PROVISION OR AS DIRECTED.

PLANTING BED IN EXISTING LAWN

10. LOCATION & LIMITS OF BEDS SHALL BE APPROVED PRIOR TO EXCAVATION. EXCAVATION, TILLING, AND BACKFILLING SHALL BE PER THE SPECIAL PROVISIONS.

LEGEND - TREES

- Oak/Maple/Elm
- White Pine
- Juniper
- Small Understory Tree
- Black Willow
- Existing Tree to Remain
- Seeding - Custom Mix

PLANT LIST-Roundabout 2

TREES

SYM	QTY	SPECIES	SIZE	NOTES
AMGABh	3	Serviceberry 'Autumn Brilliance' Amelanchier grand. 'Autumn Brill.'	4–5 FT CLUMP	
CVWKh1	3	Hawthorn – 'Winter King' Crataegus 'Winter King'	5–6 FT CLUMP	
JVBh	5	Cedar – Eastern Red 'Burkii' Juniperus virginiana 'Burkii'	4–5 FT	

SHRUBS

AMAMs2	5	Black Chokeberry 'Autumn Magic' Aronia melanocarpa 'Autumn Magic'	2–2.5 FT	
AUUp4	50	Bearberry Arctostapholos uva ursii	4 InchPot	
CPg1	16	Sweetfern Comptonia peregrina	1 Gallon	
IGCs2	10	Inkberry 'Compacta' Ilex glabra 'Compacta'	2–2.5 FT	
JCSGRg2	16	Juniper 'Sea Green' Juniper chinensis 'Sea Green'	2 Gallon	
MPs2	3	Bayberry – Northern Myrica pensylvanica	2–2.5 FT	
SAWg2	10	Spirea 'Anthony Waterer' Spirea bumalda 'Anthony Waterer'	2 Gallon	
RALGg2	24	Sumac – Fragrant 'Gro–Low' Rhus aromatica 'Gro–Low'	2 Gallon	

PERENNIALS/GRASSES

PERENNIALq	84	Perennials Perennials	1 Quart	Per Specs
BULBS	300	Bulbs Bulbs	Top	

40 20 0 20 40 FEET

SCALE: 1" = 10'

Jacobs - J:\2007 Projects\070013.209\CAD\Civil\Final August 2018\83-88_Landscape Revised 10-01-2018.dwg October 01, 2018

PLANT LIST

TREES

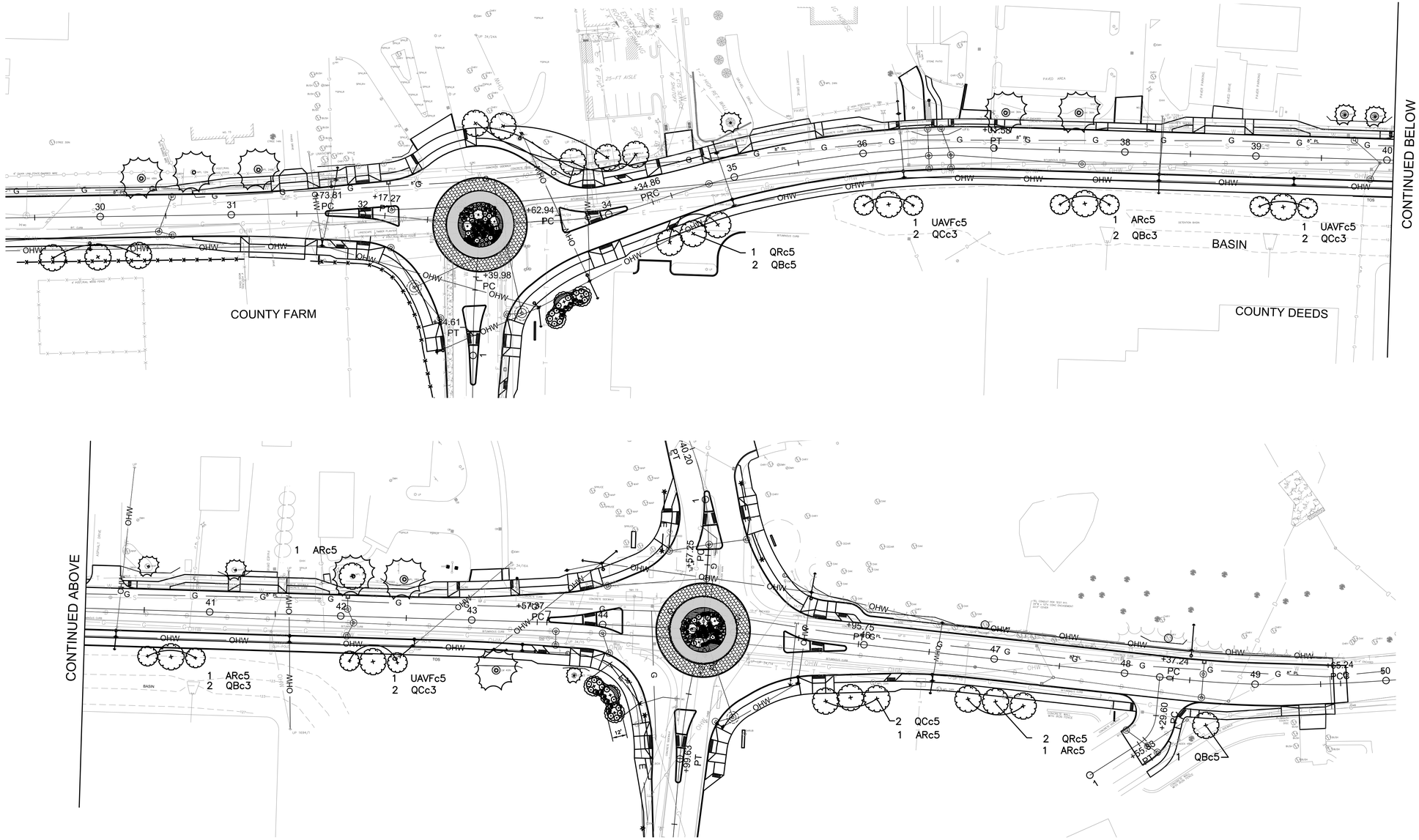
SYM	QTY	SPECIES	SIZE	NOTES
ARc5	5	Maple – Red Acer rubrum	2–2.5 IN CAL	
QBc5	3	Oak – Swamp White Quercus bicolor	2–2.5 IN CAL	
QBc3	4	Oak – Swamp White Quercus bicolor	1–1.5 IN CAL	
QCc5	2	Oak – Scarlet Quercus coccinea	2–2.5 IN CAL	
QCc3	6	Oak – Scarlet Quercus coccinea	1–1.5 IN CAL	
QRc5	3	Oak – Northern Red Quercus rubra	2–2.5 IN CAL	
UAVFc5	3	Elm – American 'Valley Forge' Ulmus americana 'Valley Forge'	2–2.5 IN CAL	

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	87	120
PROJECT FILE NO.	606264		

PLANTING PLAN
Sheet 5 of 5

TREE PLANTING
OBERY STREET- PLYMOUTH COUNTY SHERIFF'S FARM TO PLYMOUTH COUNTY DRIVEWAY



SCALE: 1" = 40'

PLANTING NOTES

1. CONTRACTOR SHALL HAVE ALL SUBSURFACE UTILITIES MARKED PRIOR TO THE START OF WORK.
2. PLANTING BEDS & PLANT LOCATIONS ARE SCHEMATIC. FINAL LOCATION SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE MASSDOT LANDSCAPE ARCHITECT AND TOWN TREE WARDEN PRIOR TO PLANTING.
3. PLANT TAGS SHALL BE REMOVED UPON ACCEPTANCE OF PLANTING.
4. ENTIRE PLANTING BEDS SHALL BE MULCHED.
5. ALL PLANTING BEDS SHALL BE KEPT IRRIGATED, WEEDED AND NEAT THROUGHOUT THE DURATION OF THE CONTRACT.
6. ALL AREAS NOT LABELED FOR CUSTOM MIX SHALL RECIEVE LAWN OR SLOPE AND SHOULDER MIX.

MEDIAN & ROUNDABOUT PLANTINGS

7. IMMEDIATELY AFTER PLACEMENT OF LOAM, PLANTS SHALL BE PLANTED, WATERED, AND MULCHED PER SPECIFICATIONS.
8. UPON APPROVAL OF PLANTED BEDS, SURROUNDING AREAS SHALL BE SEEDED WITH THE CUSTOM MIX.
9. CUSTOM MIX SHALL AS SPECIFIED IN THE SPECIAL PROVISION OR AS DIRECTED.

PLANTING BED IN EXISTING LAWN

10. LOCATION & LIMITS OF BEDS SHALL BE APPROVED PRIOR TO EXCAVATION. EXCAVATION, TILLING, AND BACKFILLING SHALL BE PER THE SPECIAL PROVISIONS.

LEGEND - TREES

- Oak/Maple/Elm
- White Pine
- Juniper
- Small Understory Tree
- Black Willow
- Existing Tree to Remain
- Seeding - Custom Mix

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\83-88 Landscape Revised 10-01-2018.dwg, October 01, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	88	120
PROJECT FILE NO.	606264		

LANDSCAPE DETAILS

PLANT LIST SUMMARY

TREES

SYM	QTY TOTL	DESCRIPTION	SIZE	REMARKS	Area 1 SSI	Area 2 DEPOT	Area 3 R-1	Area 4 R-2	Area 5 COUNTY
JCKsd4	19	Juniper 'Keteleeri' Juniper chinensis 'Keteleeri'	3–4 FT	Remarks		19			
JVBh	10	Cedar – Eastern Red 'Burkii' Juniper virginiana 'Burkii'	4–5 FT	Remarks			5	5	
PSTh	3	Pine – White Pinus strobus	4–5 FT	Remarks	3				
AMGABh	9	Serviceberry 'Autumn Brilliance' Amelanchier grandiflora 'Autumn Brilliance'	4–5 FT CLUMP	Remarks	3		3	3	
ARc5	7	Maple – Red Acer rubrum	2–2.5 IN CAL	Remarks	2				5
CVWKh1	9	Hawthorn – 'Winter King' Crataegus 'Winter King'	5–6 FT CLUMP	Remarks	3		3	3	
QBc3	4	Oak – Swamp White Quercus bicolor	1–1.5 IN CAL	Remarks					4
QBc5	12	Oak – Swamp White Quercus bicolor	2–2.5 IN CAL	Remarks	5	2	2		3
QCc3	6	Oak – Scarlet Quercus coccinea	1–1.5 IN CAL	Remarks					6
QCc5	15	Oak – Scarlet Quercus coccinea	2–2.5 IN CAL	field located	6	3	3		3
QRc5	4	Oak – Northern Red Quercus rubra	2–2.5 IN CAL	Remarks		1			3
SNh	8	Willow – Black Salix nigra	4–5 FT	Remarks		8			
UAVFc5	3	Elm – American 'Valley Forge' Ulmus americana 'Valley Forge'	2–2.5 IN CAL	field located					3

SHRUBS

IGCs2	22	Inkberry – 'Compacta' Ilex glabra 'Compacta'	2–2.5 FT	Remarks			12	10	
JCSGRg2	36	Juniper – Sea Green Juniperus chinensis 'Sea Green'	2 Gallon	Remarks	4		16	16	
AMAMs2	14	Black Chokeberry 'Autumn Magic' Aronia melanocarpa 'Autumn Magic'	2–2.5 FT	Remarks			9	5	
CPg1	32	Sweetfern Comptonia peregrina	1 Gallon	Remarks			16	16	
IVJDs2	1	Winterberry – 'Jim Dandy' (male) Ilex verticillata 'Jim Dandy' (male)	2–2.5 FT	Remarks			1		
IVRSs2	12	Winterberry – Red Sprite (female) Ilex verticillata 'Red Sprite' (female)	2–2.5 FT	5–6' o.c.			12		
MPs2	8	Bayberry – Northern Myrica pensylvanica	2–2.5 FT	per specs			5	3	
RALGg2	46	Sumac – Fragrant 'Gro–Low' Rhus aromatica 'Gro–Low'	2 Gallon	per specs			22	24	
SAWg2	10	Spirea 'Anthony Waterer' Spirea x bumalda 'Anthony Waterer'	2 Gallon	per specs				10	
AUUp4	100	Bearberry Arctostaphylos uva ursi	4 Inch Pot	per specs			50	50	

PERENNIALS/GRASSES

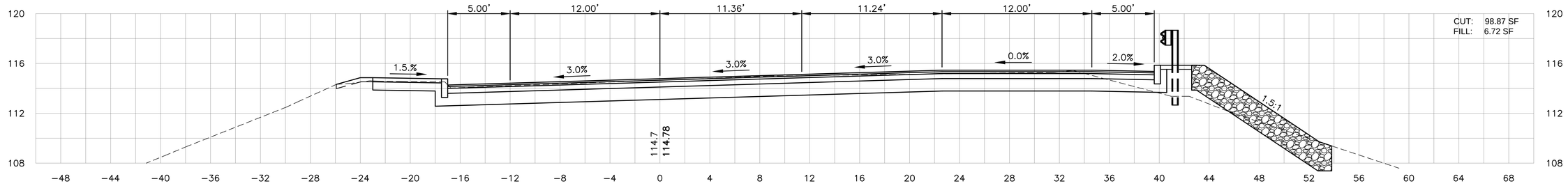
BULBS	600	BULBS BULBS	TOP	per specs			300	300	
PERENNIALq	1000	Perennials Perennials	1 Quart	per specs	500	332	84	84	

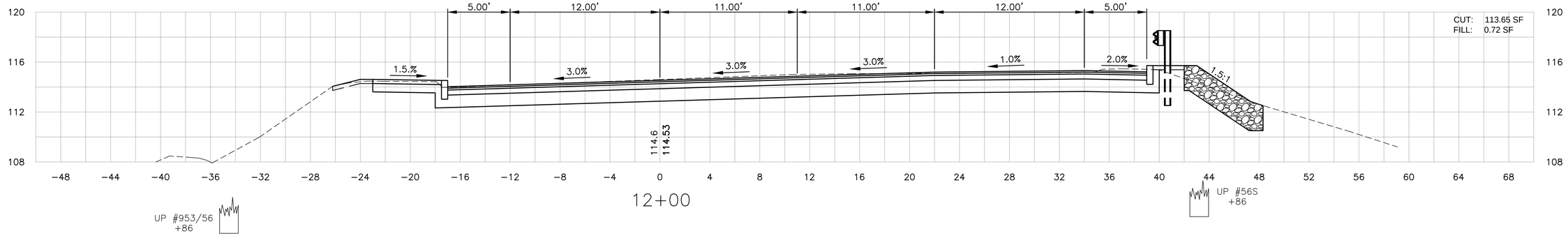
Jacobs - J:\2007 Projects\070013.209\CAD\Civil\Final August 2018\83-88_Landscape Revised 10-01-2018.dwg October 01, 2018

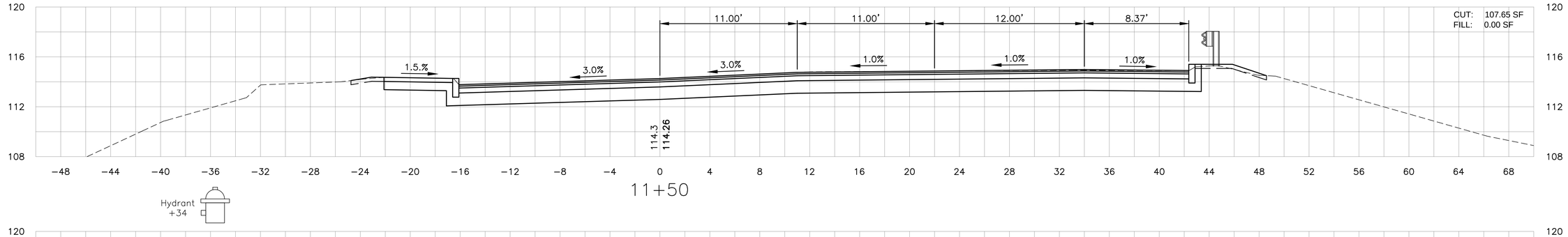
PLYMOUTH
OBERY STREET

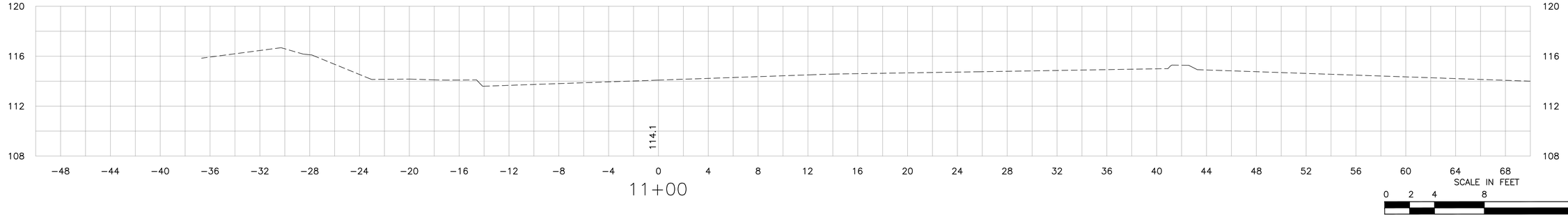
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	89	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
SOUTH STREET









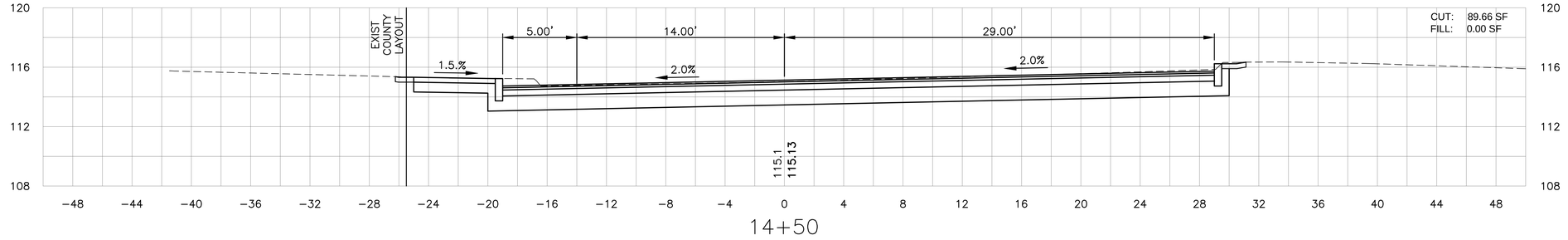
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.209\CAD\civil\Final August 2018\89-94_CXS_001.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	90	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
SOUTH STREET



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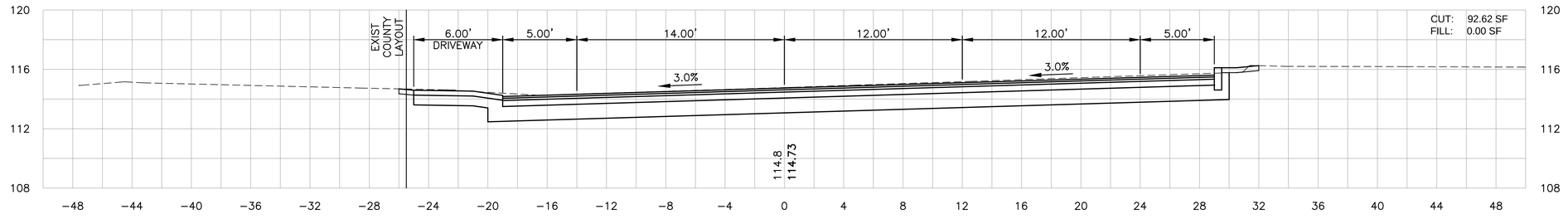

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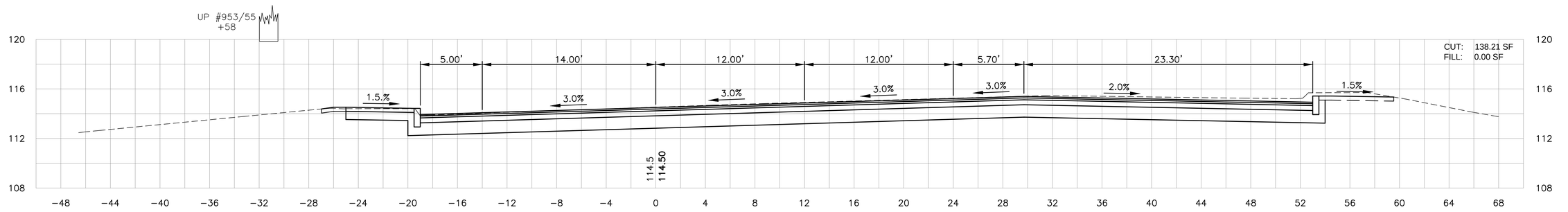

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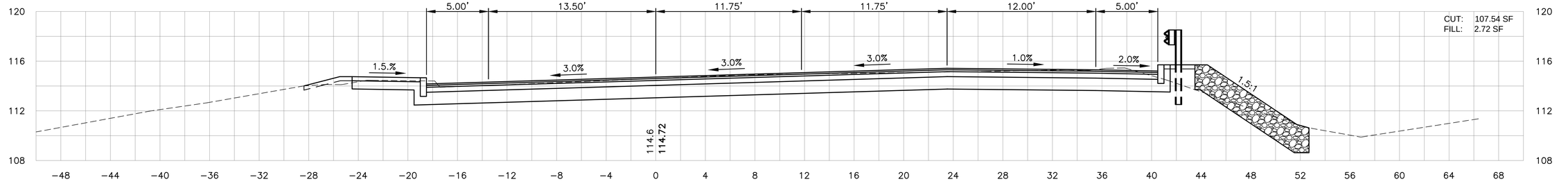


13+00

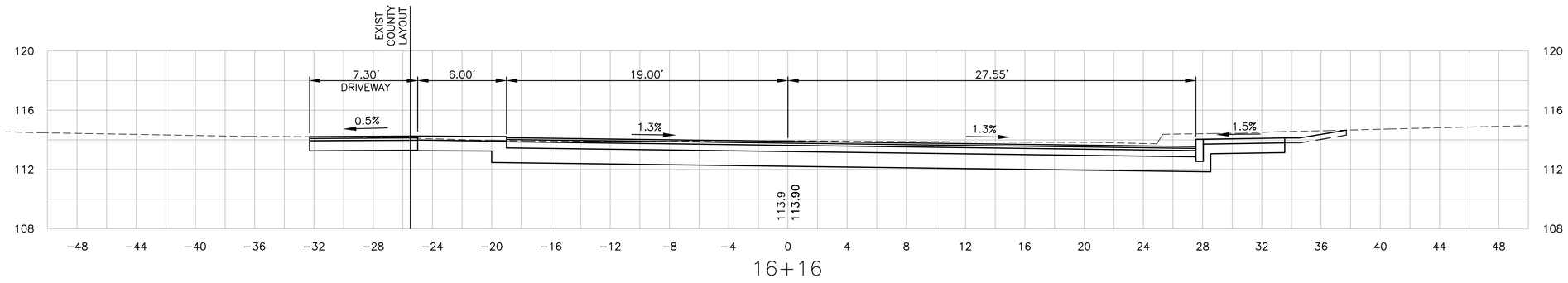
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\89-94_CXS_001.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	91	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
SOUTH STREET



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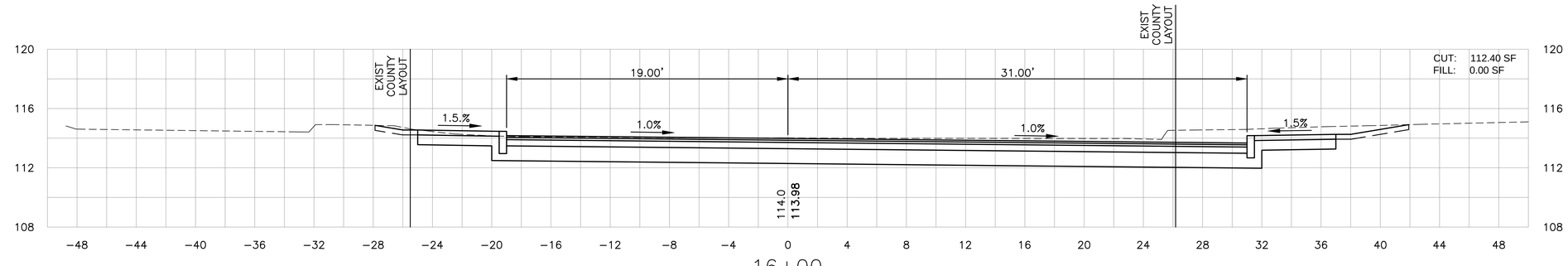
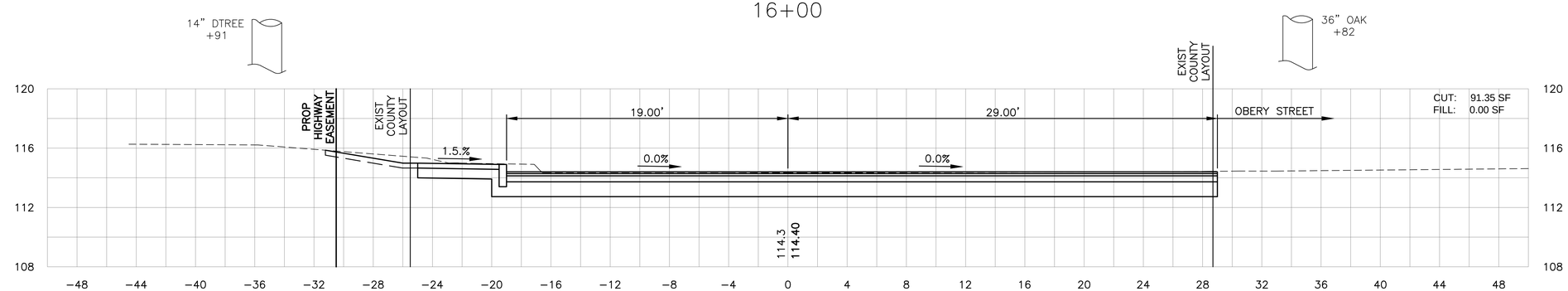


16+00



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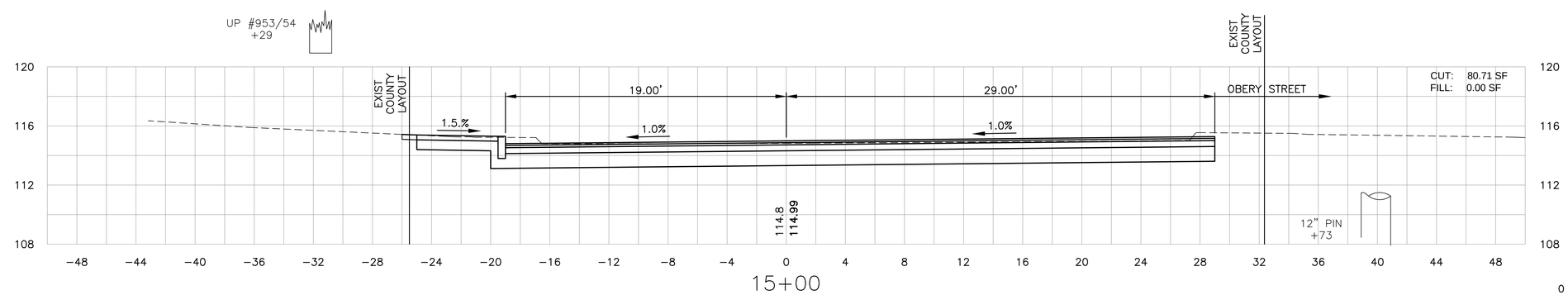


15+00

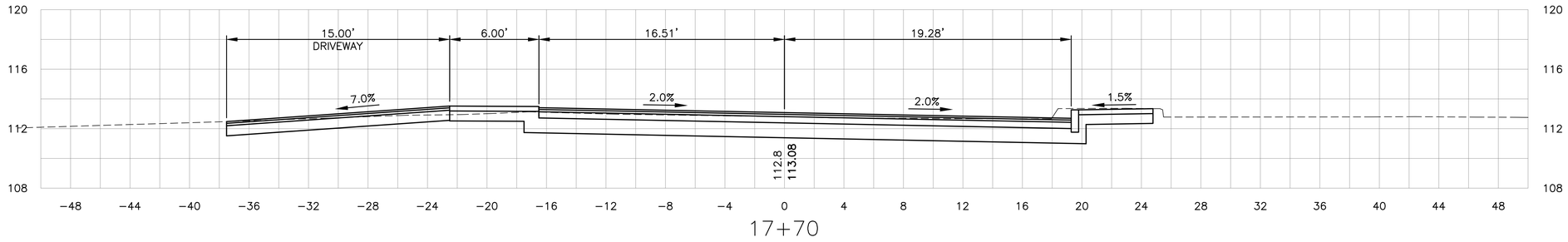
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\89-94 CXS_001.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	92	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
SOUTH STREET



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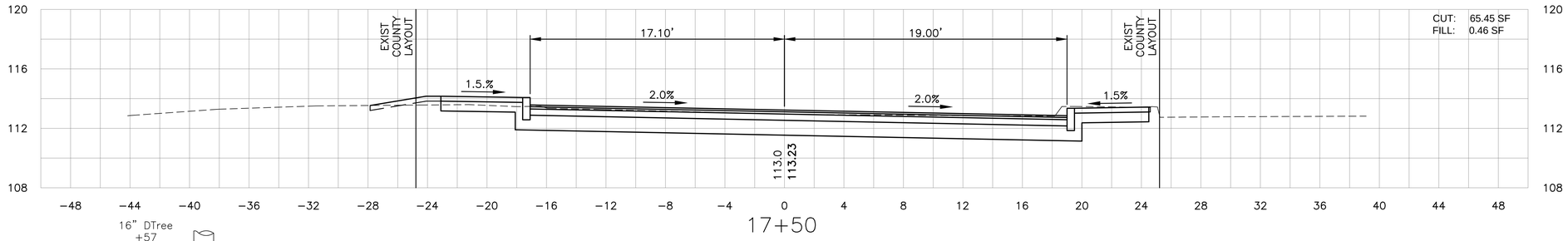

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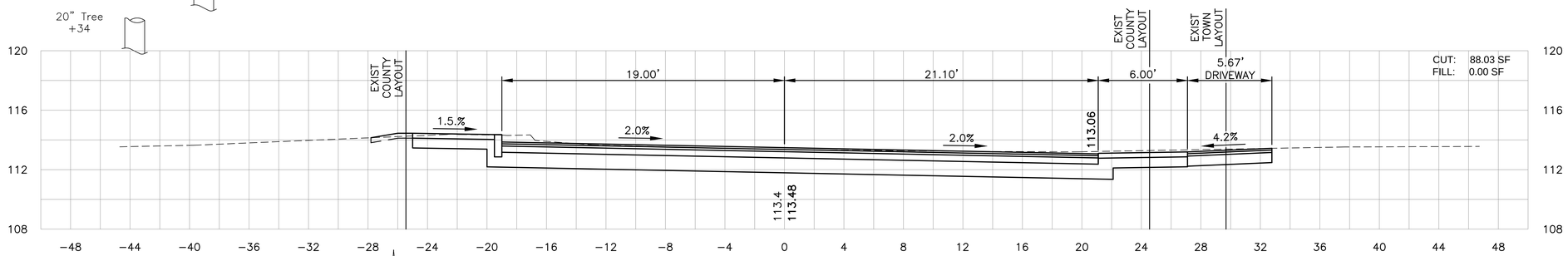

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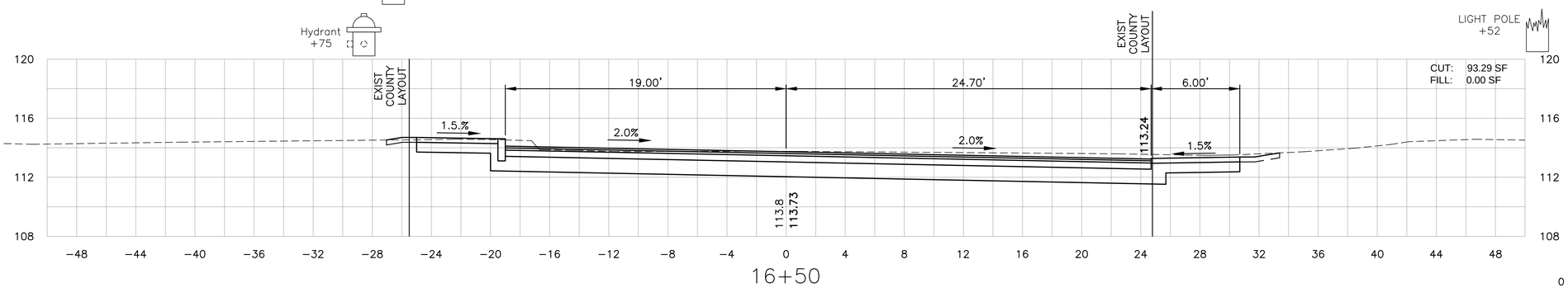


16+50

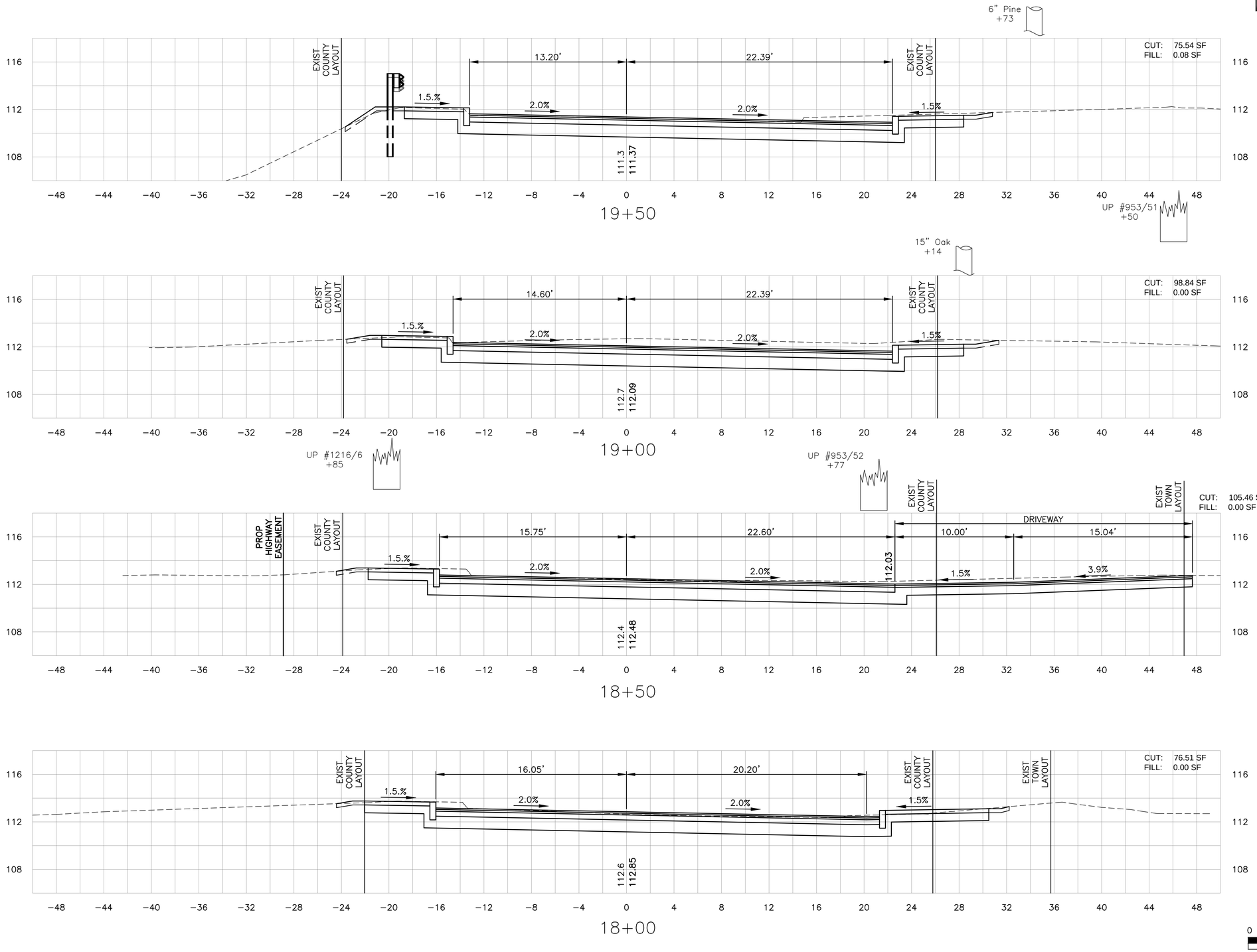
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.208\CAD\Civil\Final August 2018\89-94_CXS_001.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	93	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
SOUTH STREET

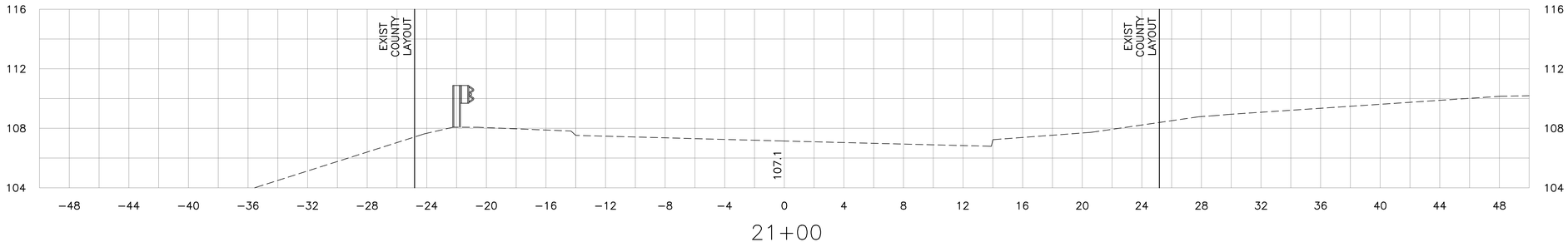


Jacobs - J:\2007 Projects\070013.209\CAD\Civil\Final August 2018\89-94_CXS_001.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	94	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
SOUTH STREET



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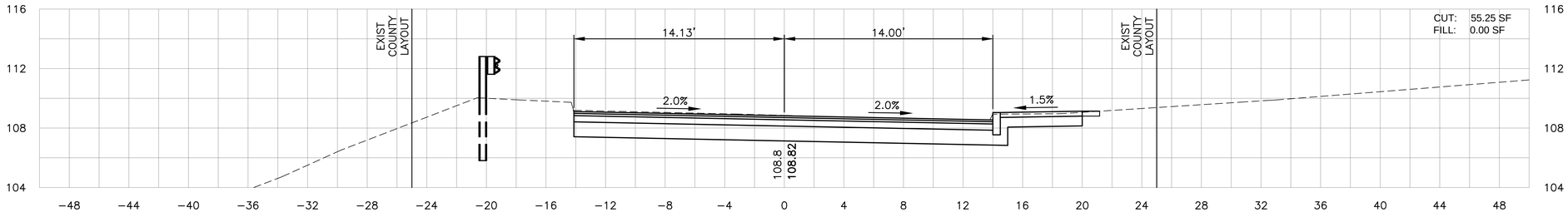
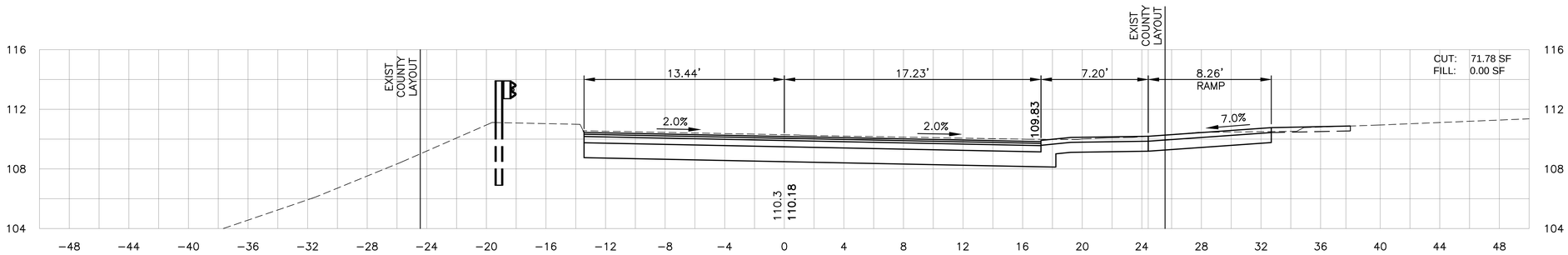


20+50



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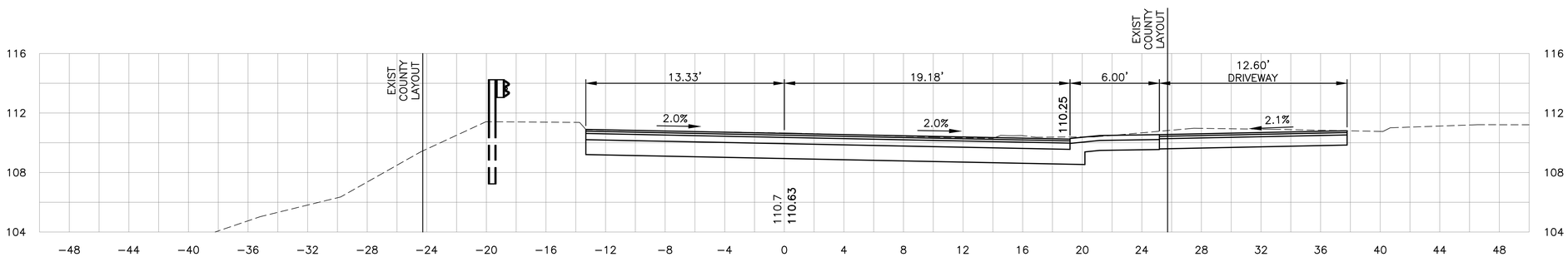


19+83

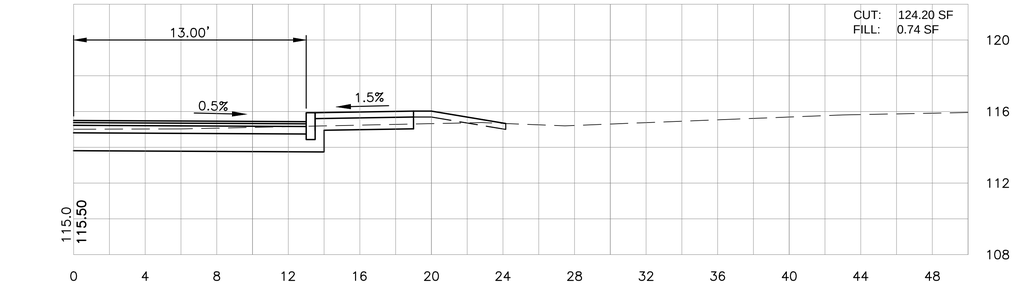
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\89-94_CXS_001.dwg August 23, 2018

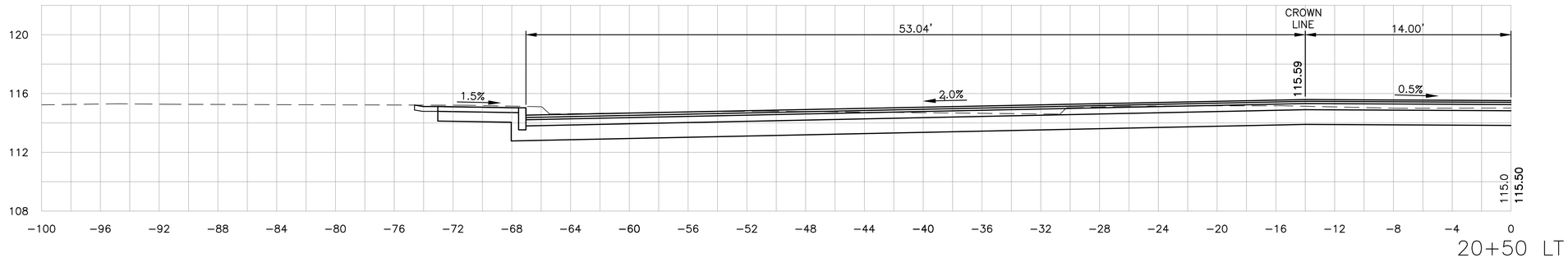
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	95	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET



20+50 RT



20+50 LT

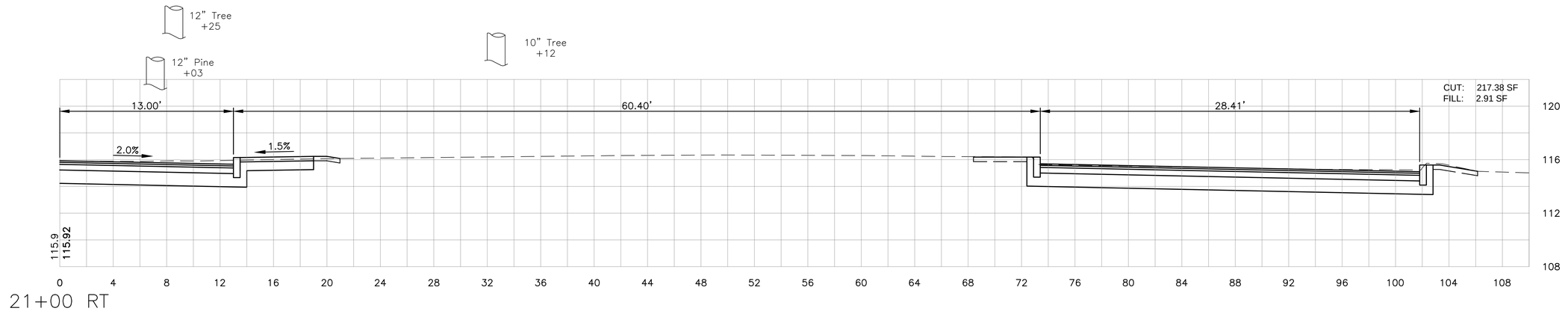
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg, August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	96	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET



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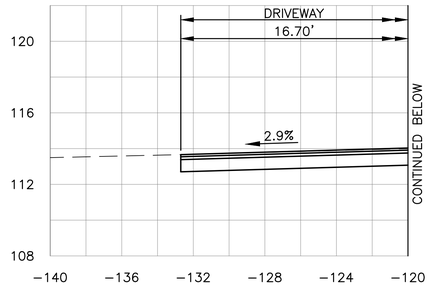

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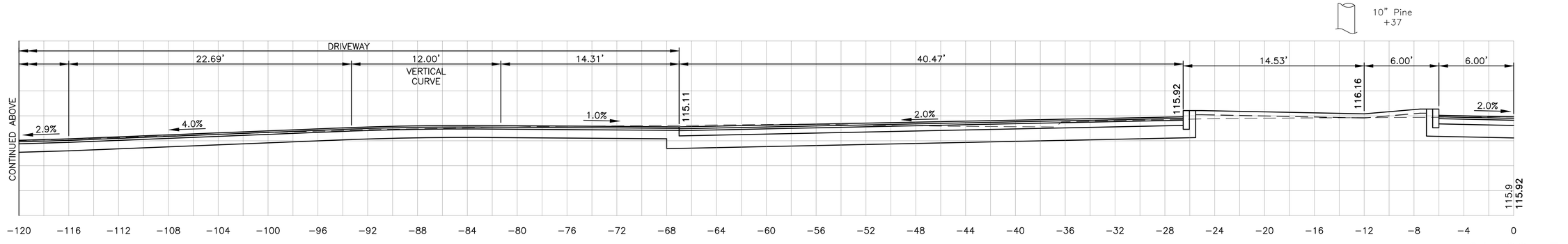


21+00 LT

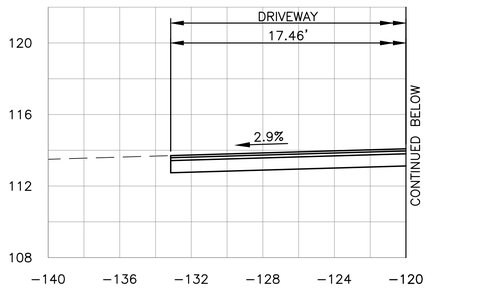
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

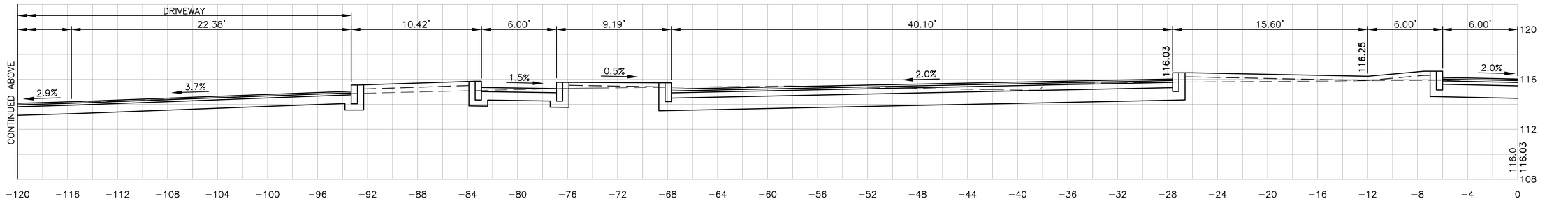
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	97	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET



21+13 LT



21+13 LT

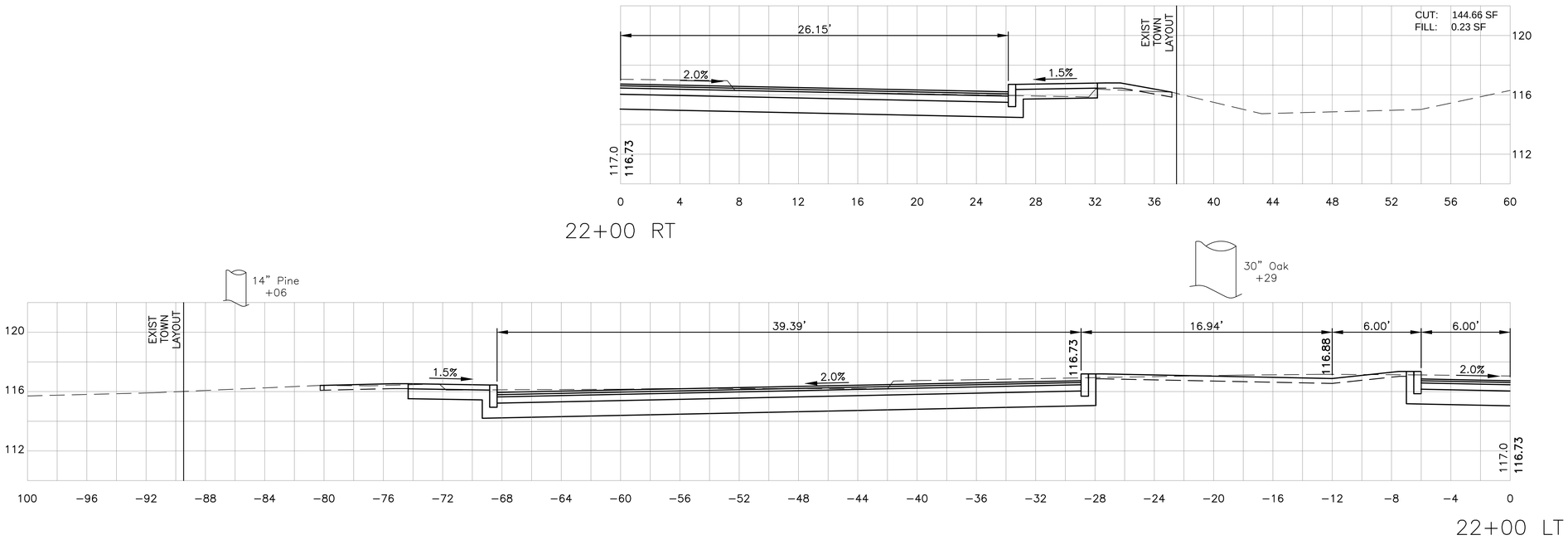
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	98	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET

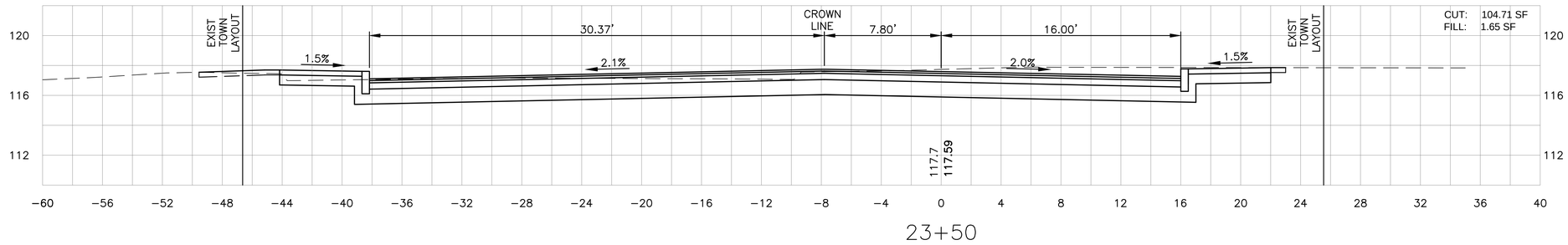


Jacobs - U:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	99	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET



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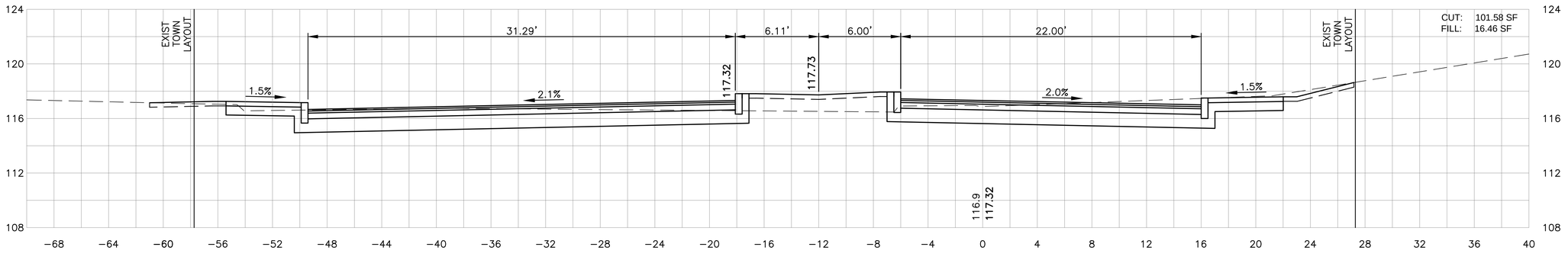
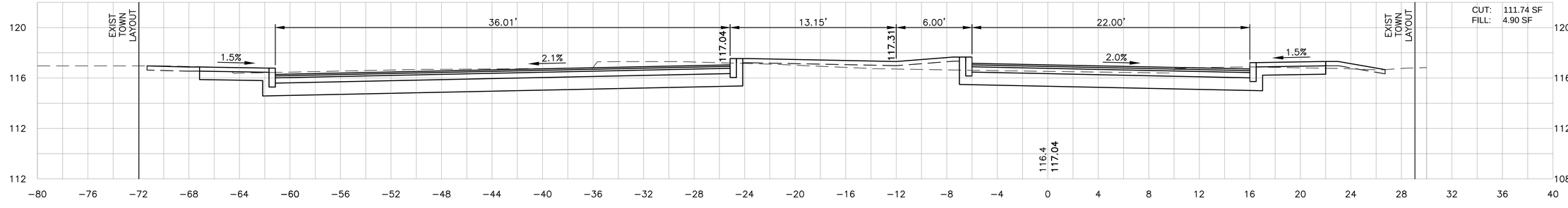


23+00

UP #34/32
+69



22+50

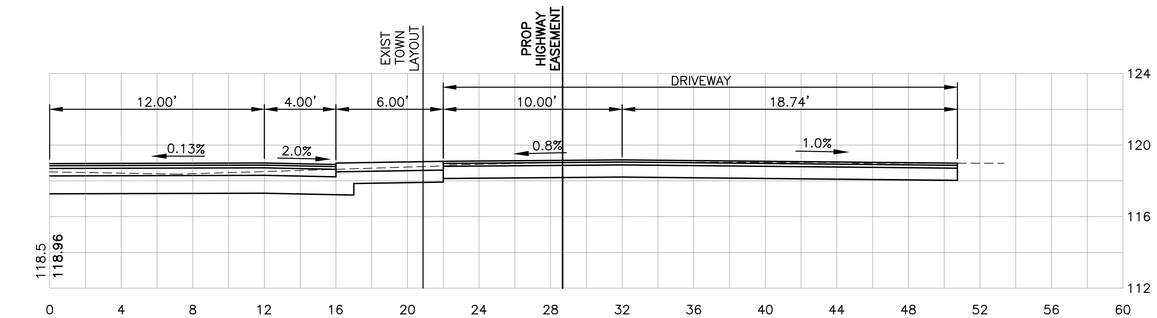
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg, August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	100	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET



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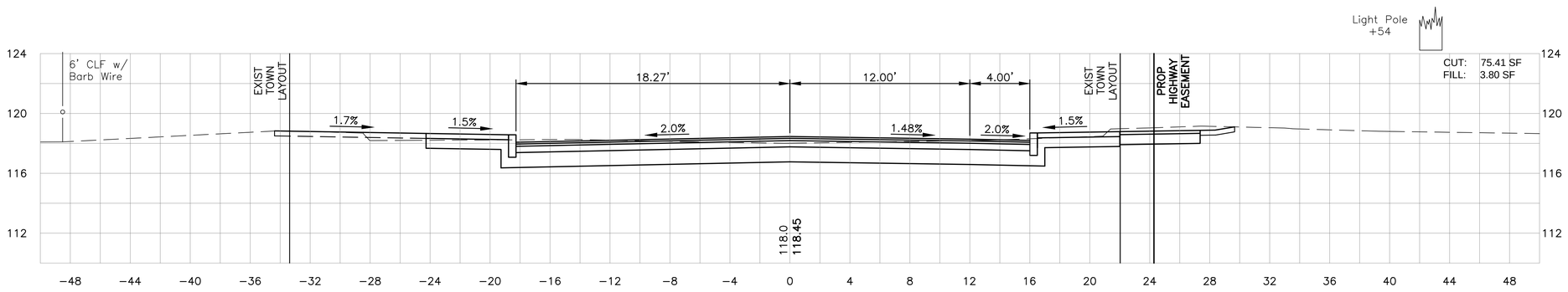

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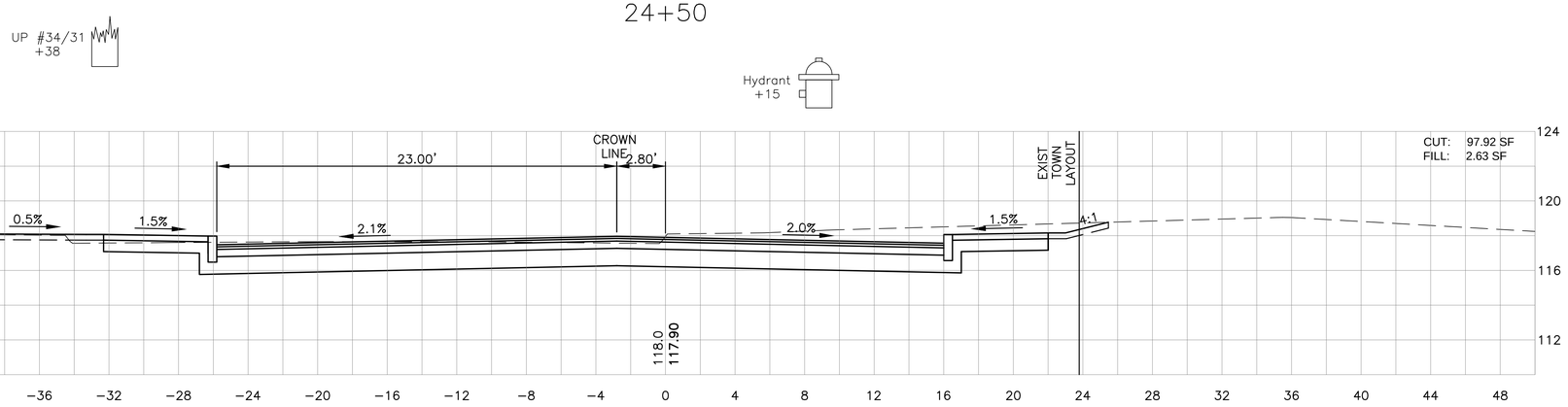


24+00

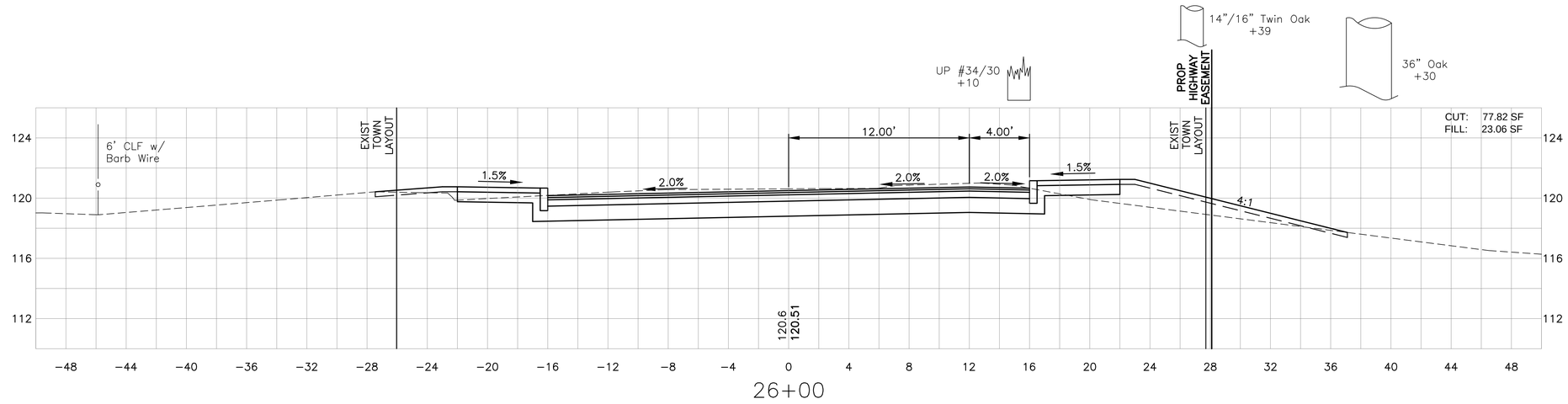
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\05-120_CXS_002.dwg August 23, 2018

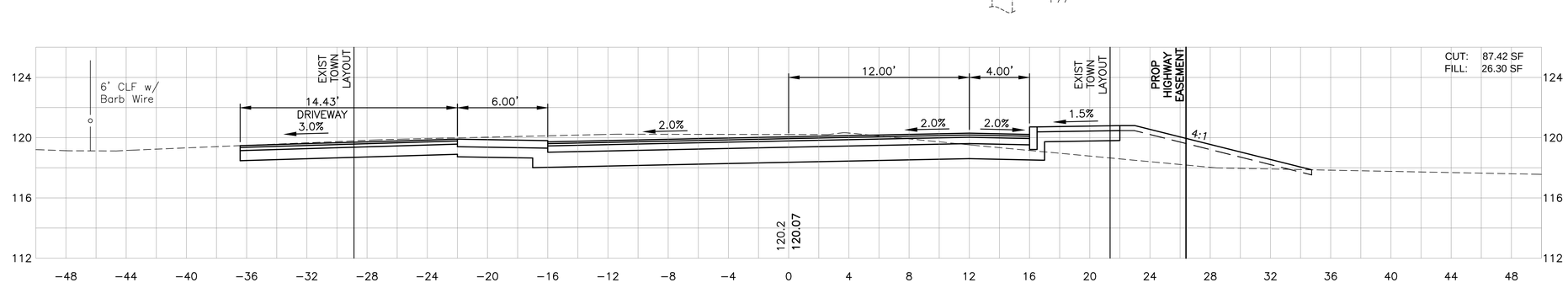
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	101	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET



26+00



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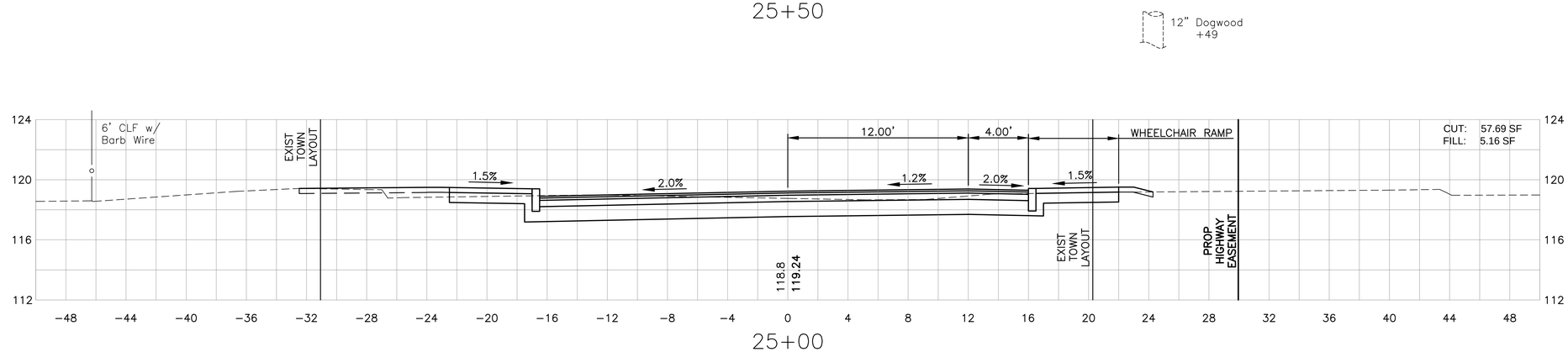


25+00

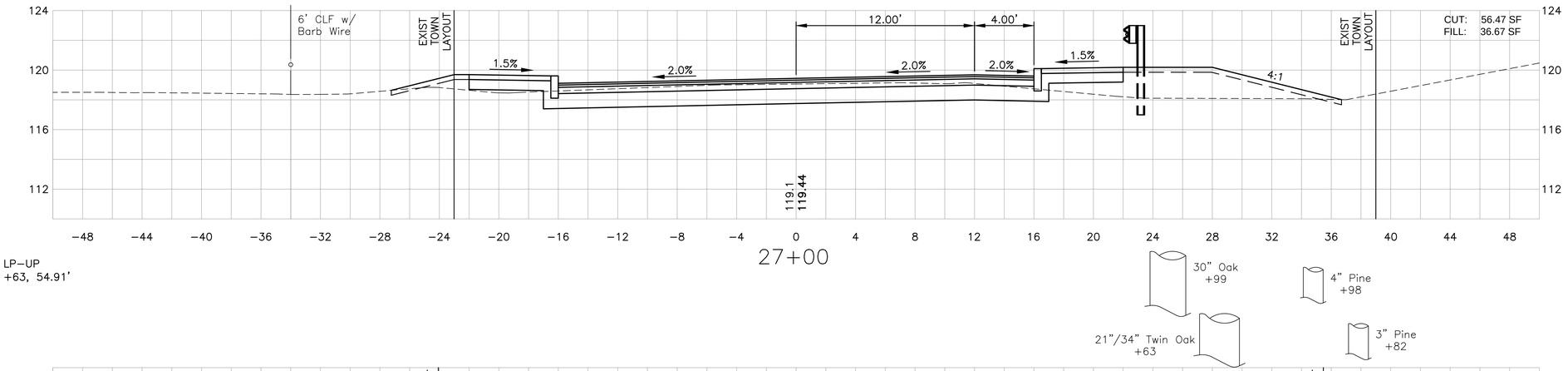
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.209\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	102	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET



27+00

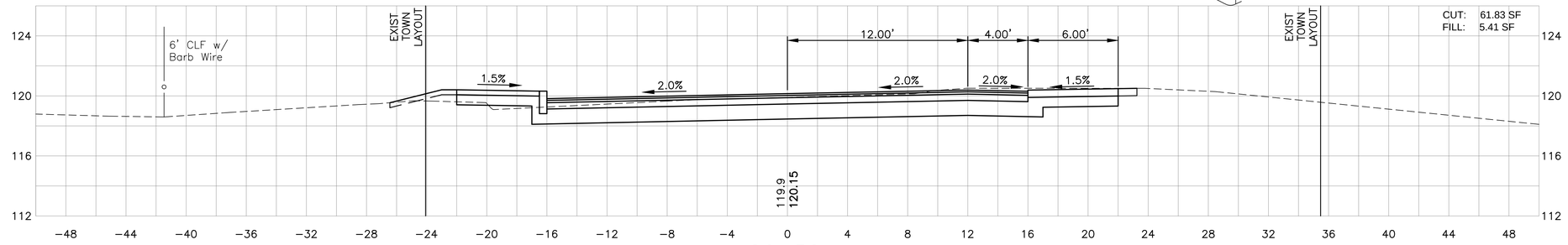
LP−UP
+63, 54.91'

30" Oak
+99

4" Pine
+98

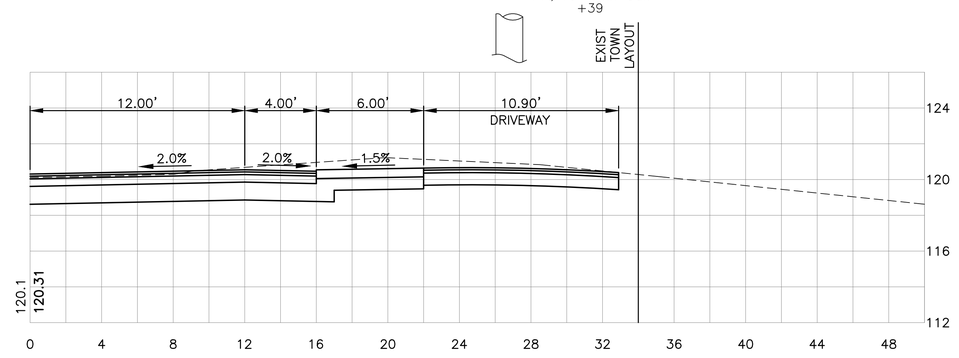
21"/34" Twin Oak
+63

3" Pine
+82



26+50

14"/16" Twin Oak
+39



26+38

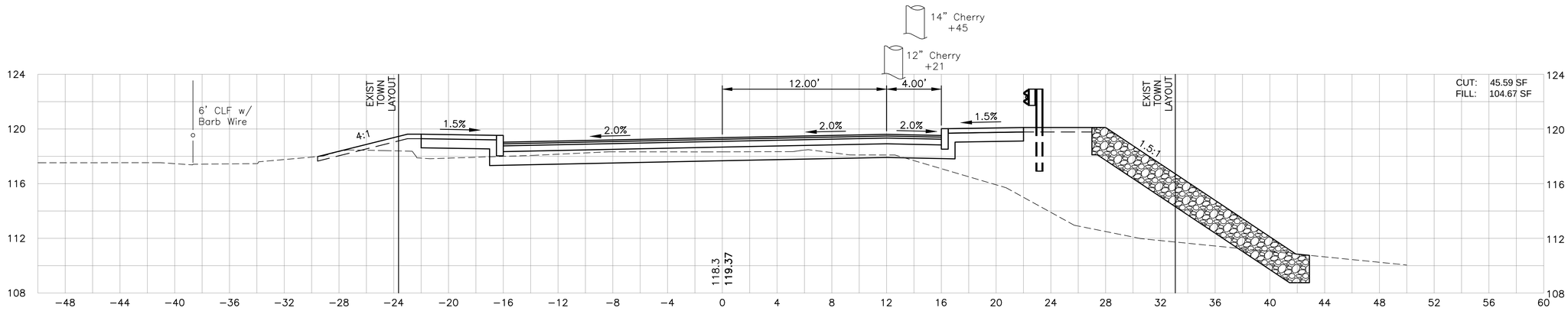
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.209\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

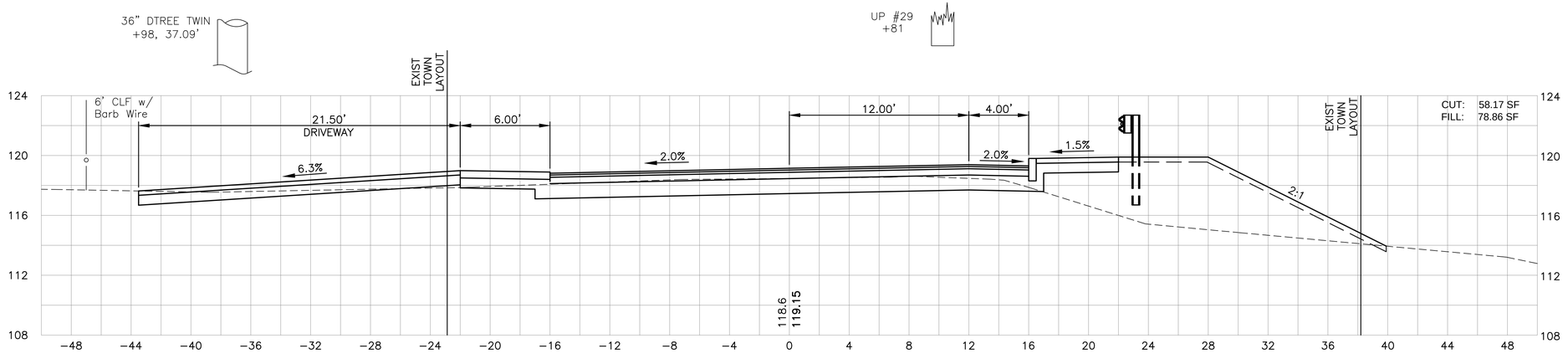
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	103	120
PROJECT FILE NO.	606264		

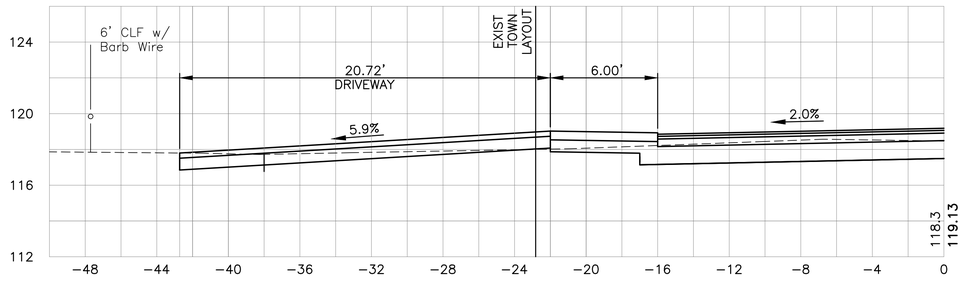
CROSS SECTIONS
OBERY STREET



28+00



27+50



27+35

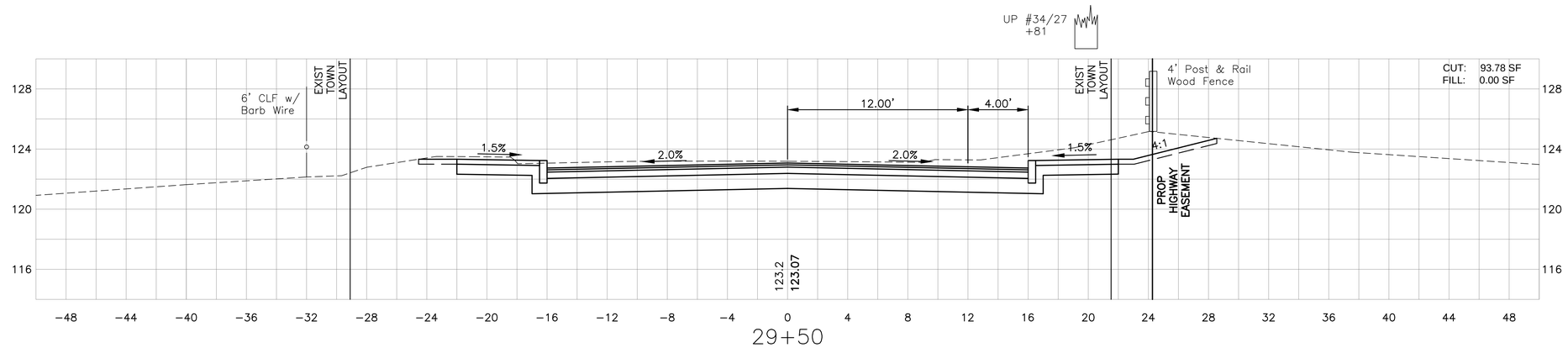
SCALE IN FEET
0 2 4 8 16
1" = 4'

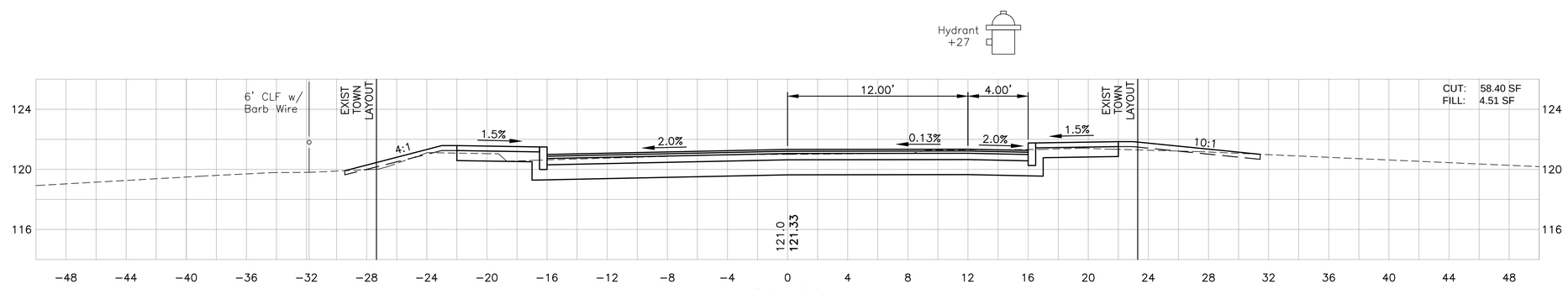
Jacobs - J:\2007 Projects\0700313.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

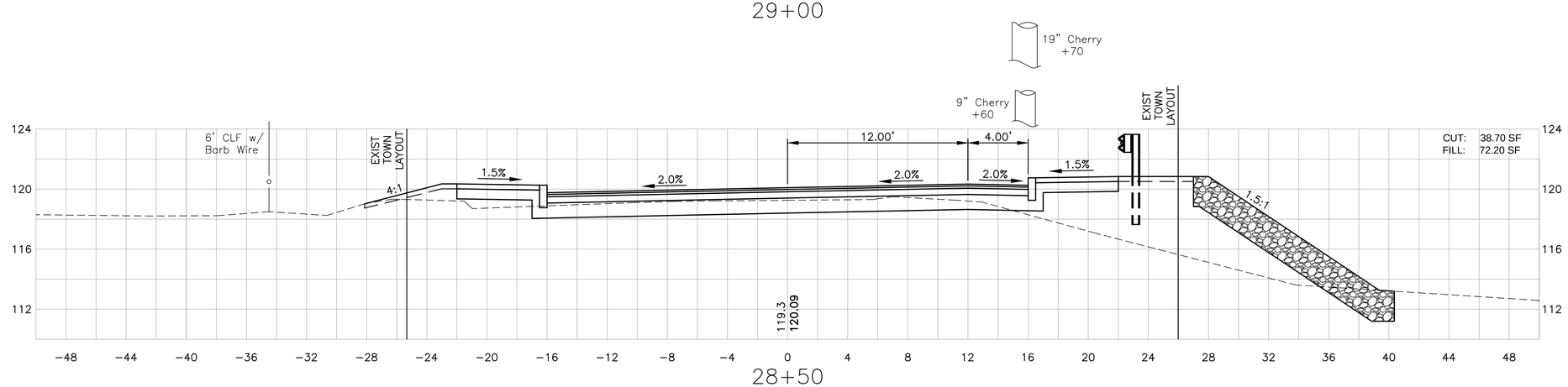
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	104	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET







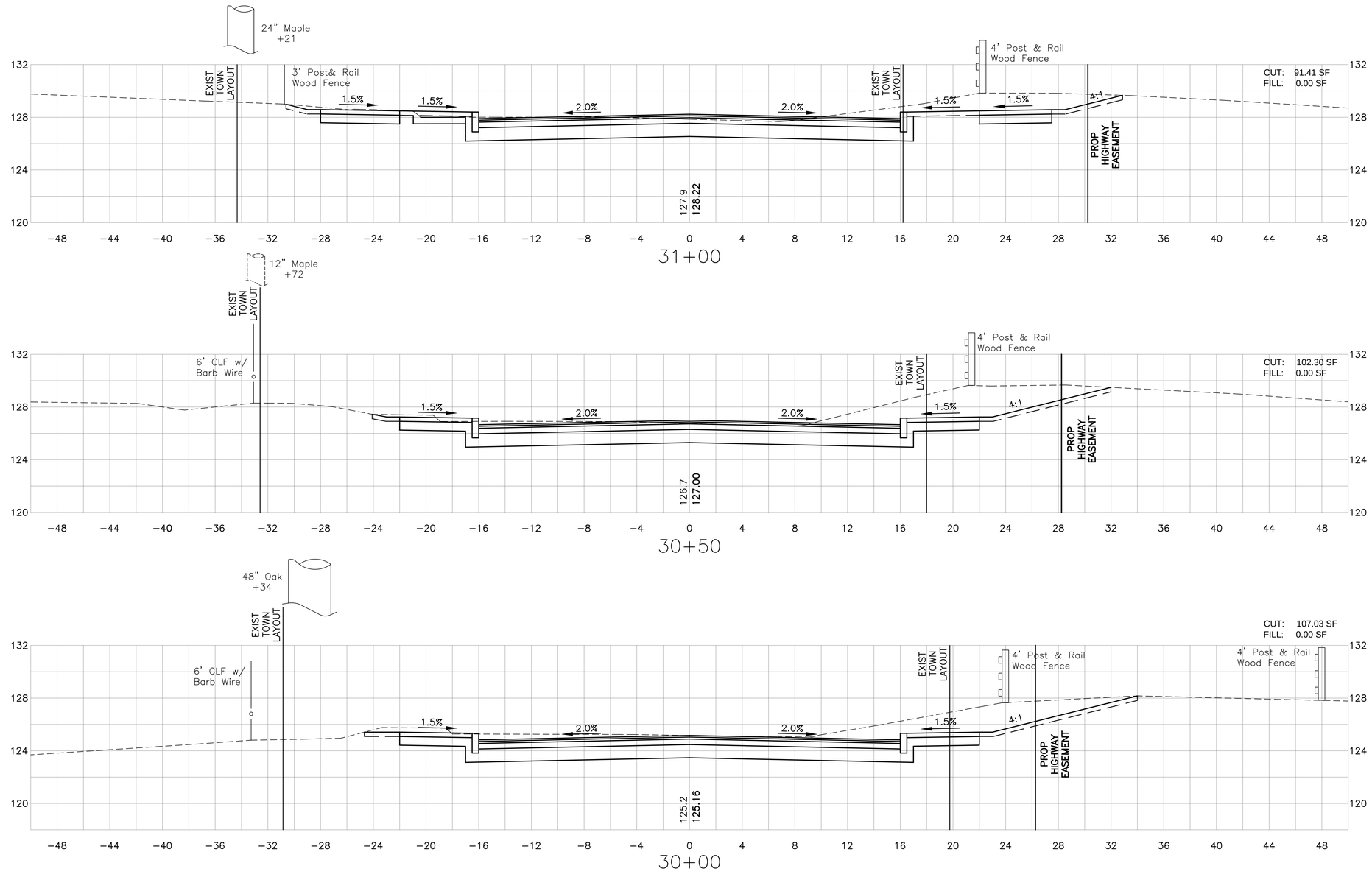
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	105	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET

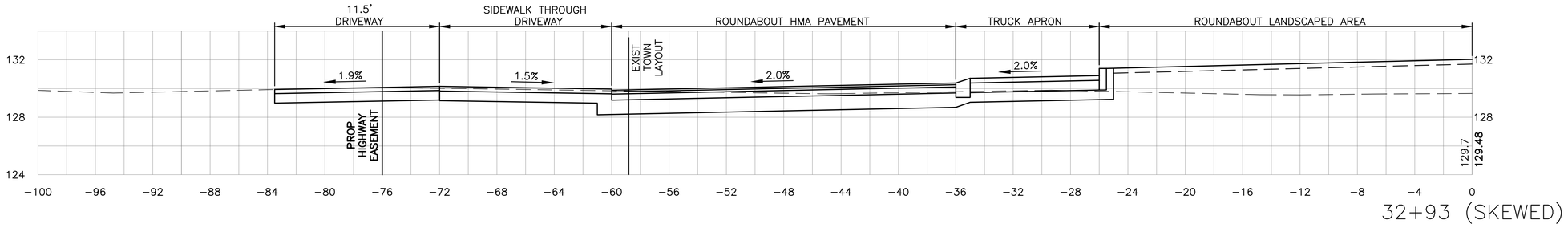


Jacobs - J:\2007 Projects\070013 205\CAD\Civil\Final August 2018\95-120 CX5_002.dwg August 23, 2018

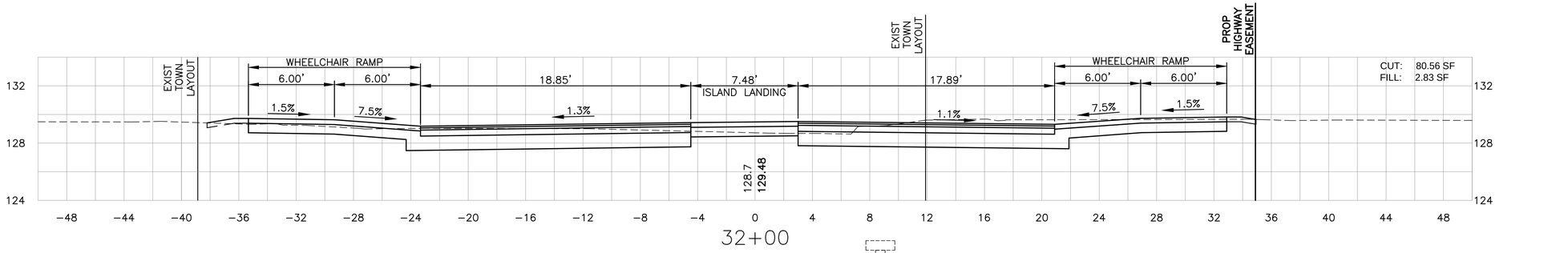
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	106	120
PROJECT FILE NO.	606264		

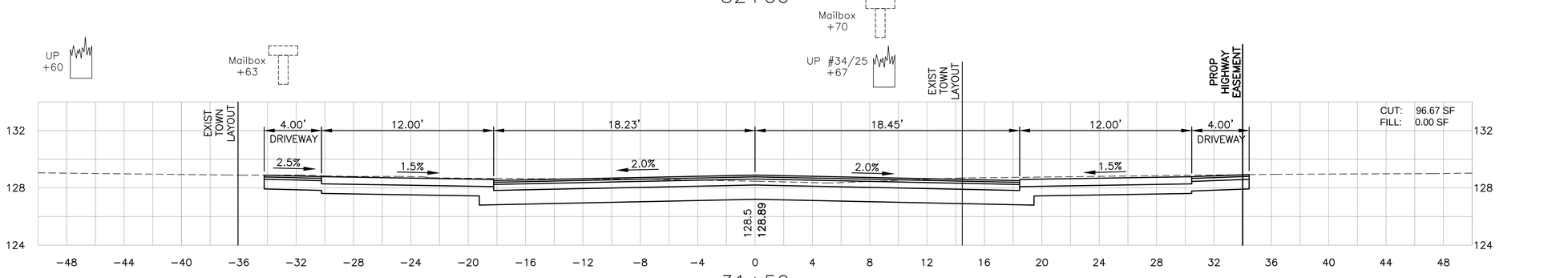
CROSS SECTIONS
OBERY STREET



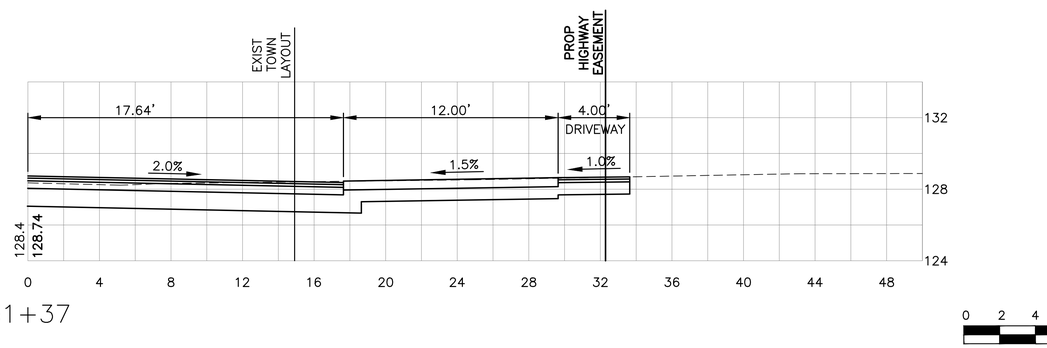
32+93 (SKEWED)



32+00



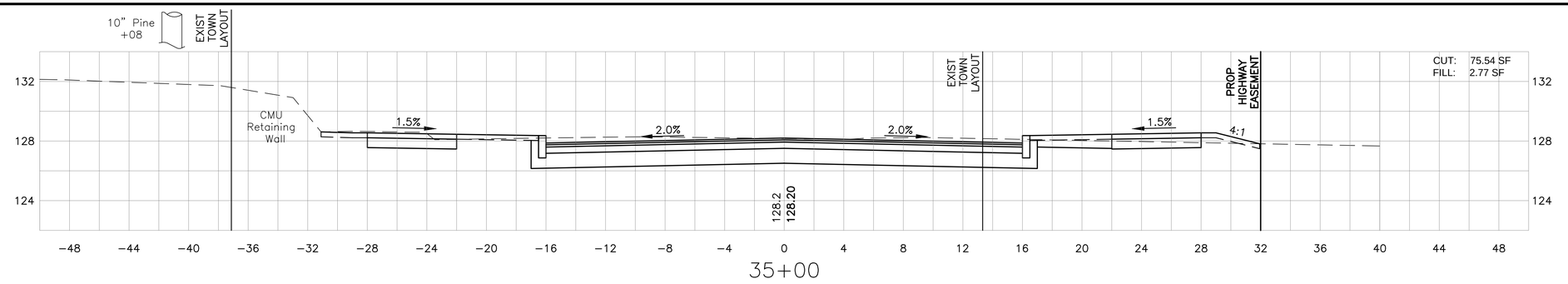
31+50



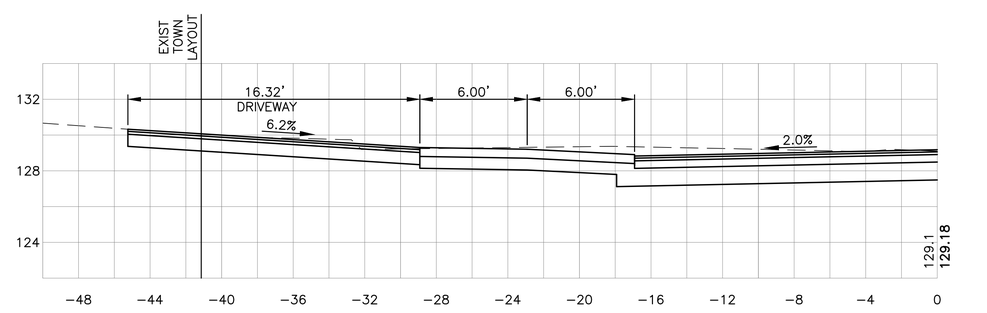
31+37

SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - U:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CX5_002.dwg, August 23, 2018

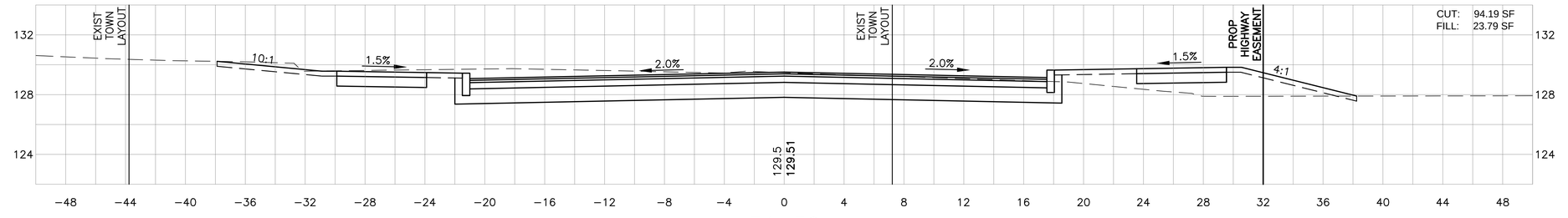


35+00

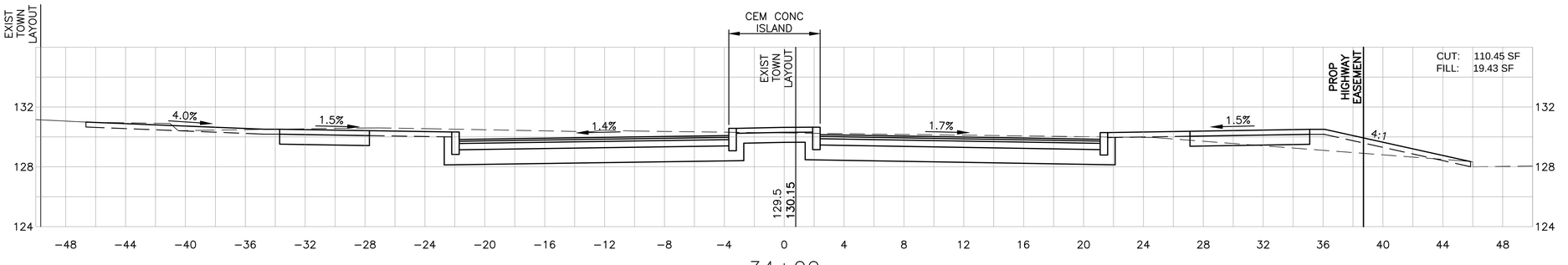


34+65

UP #34/23
+81



34+50



34+00

SCALE IN FEET
0 2 4 8 16
1" = 4'

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	107	120
PROJECT FILE NO.	606264		

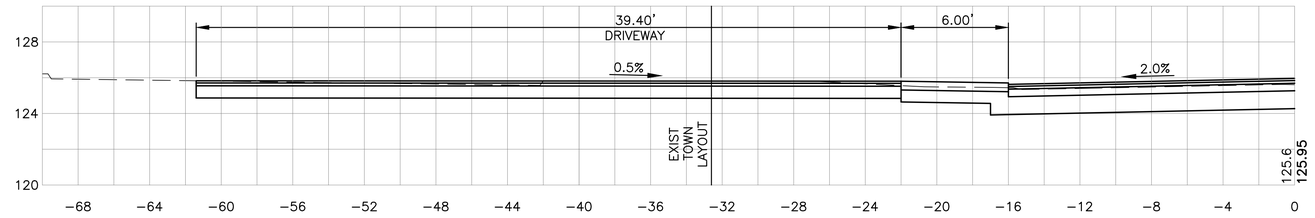
CROSS SECTIONS
OBERY STREET

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

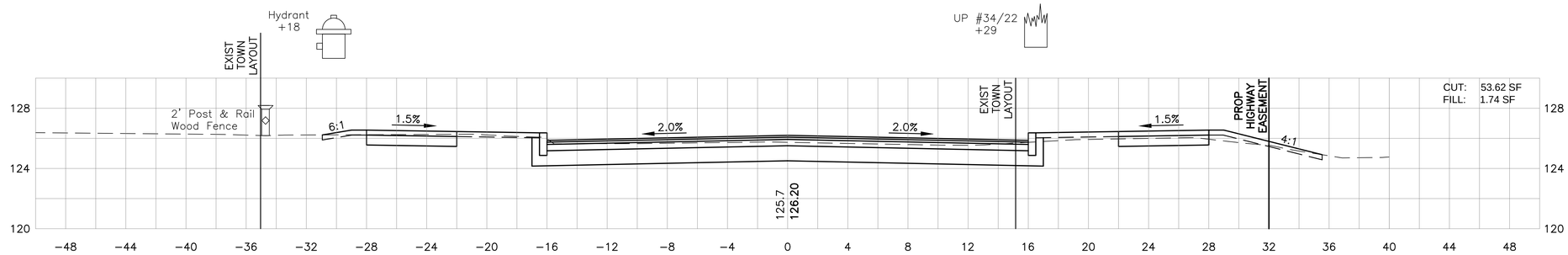
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	108	120
PROJECT FILE NO.	606264		

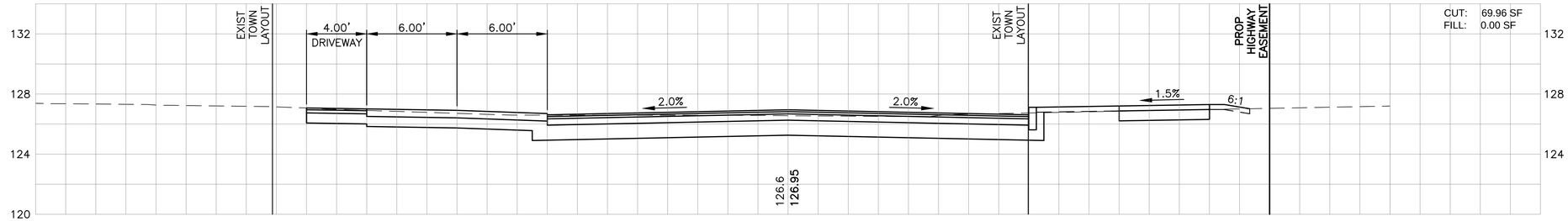
CROSS SECTIONS
OBERY STREET



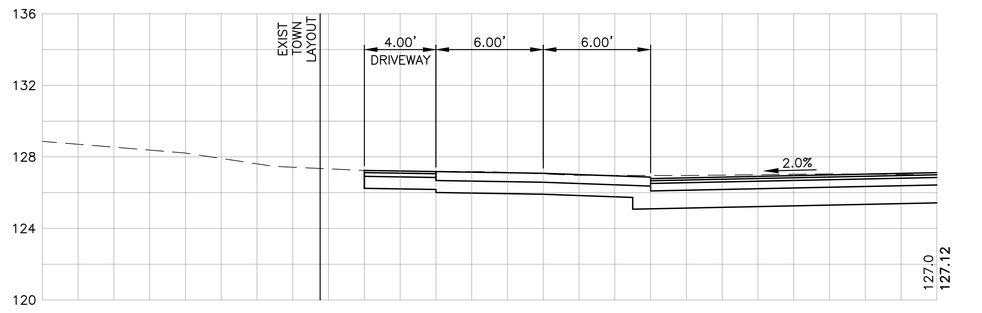
36+42



36+00



35+50



35+42

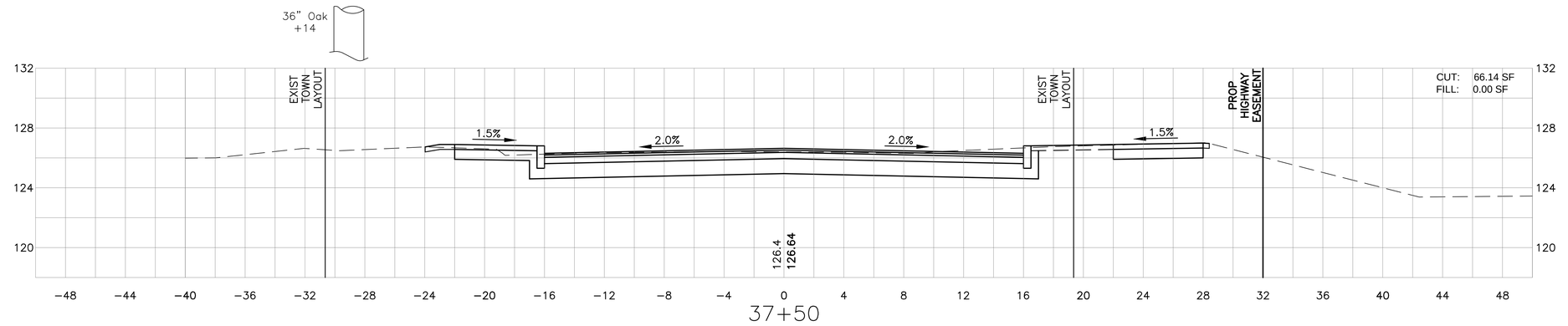
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.209\CAD\Civil\Final August 2018\95-120_CX9_002.dwg August 23, 2018

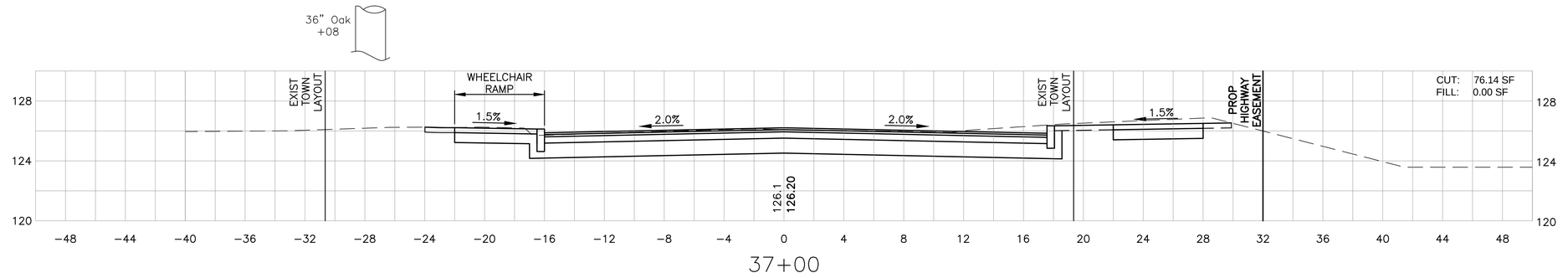
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	109	120
PROJECT FILE NO.	606264		

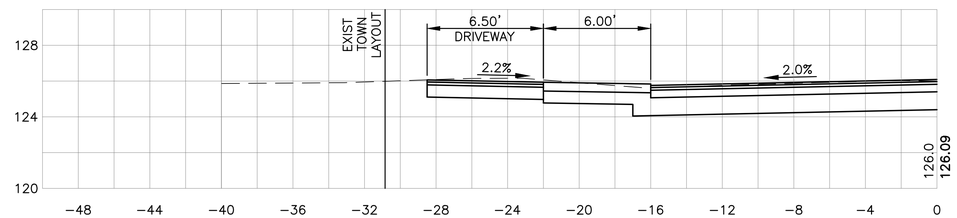
CROSS SECTIONS
OBERY STREET



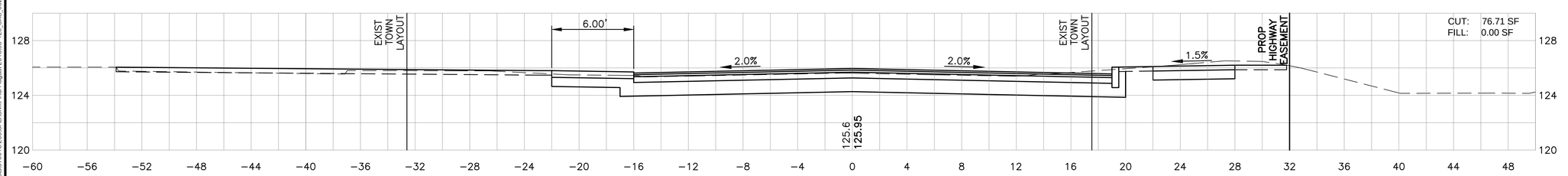
37+50



37+00



36+85



36+50

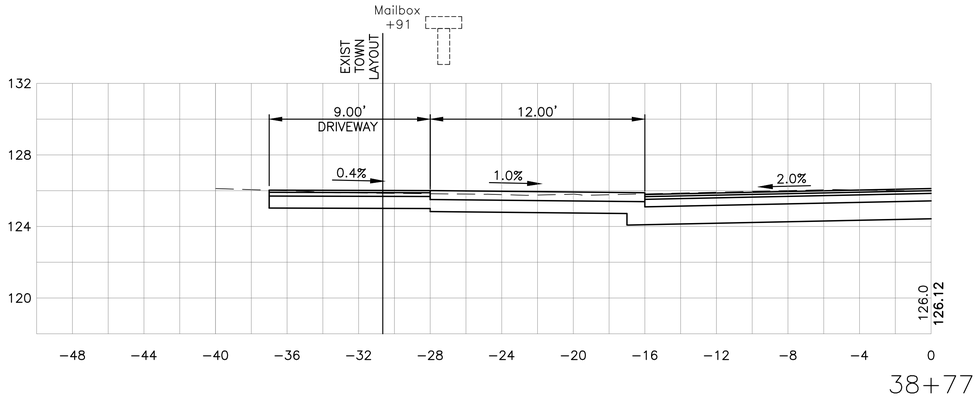
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013 2050\CAD\Civil\Final August 2018\95-120 CXS_002.dwg August 23, 2018

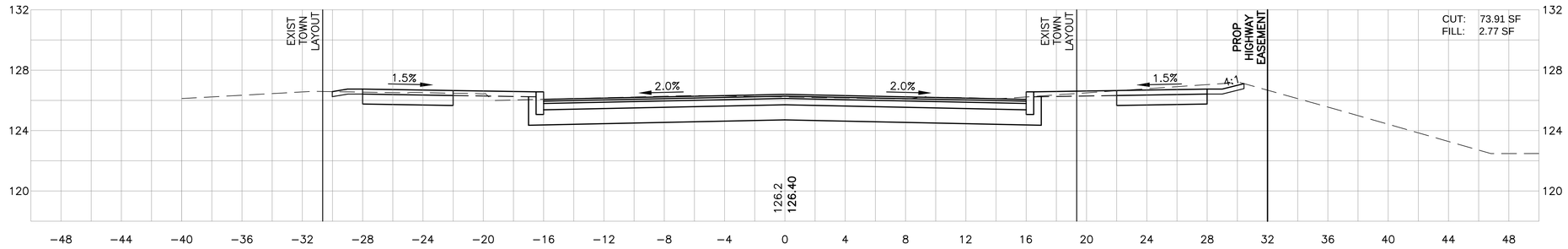
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	110	120
PROJECT FILE NO.	606264		

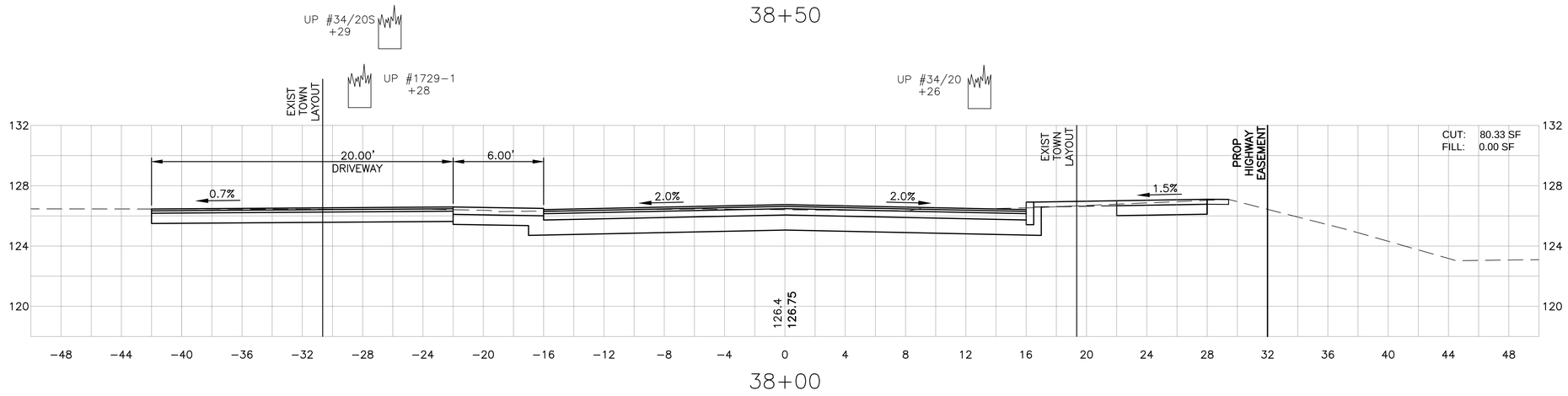
CROSS SECTIONS
OBERY STREET



38+77



38+50



38+00

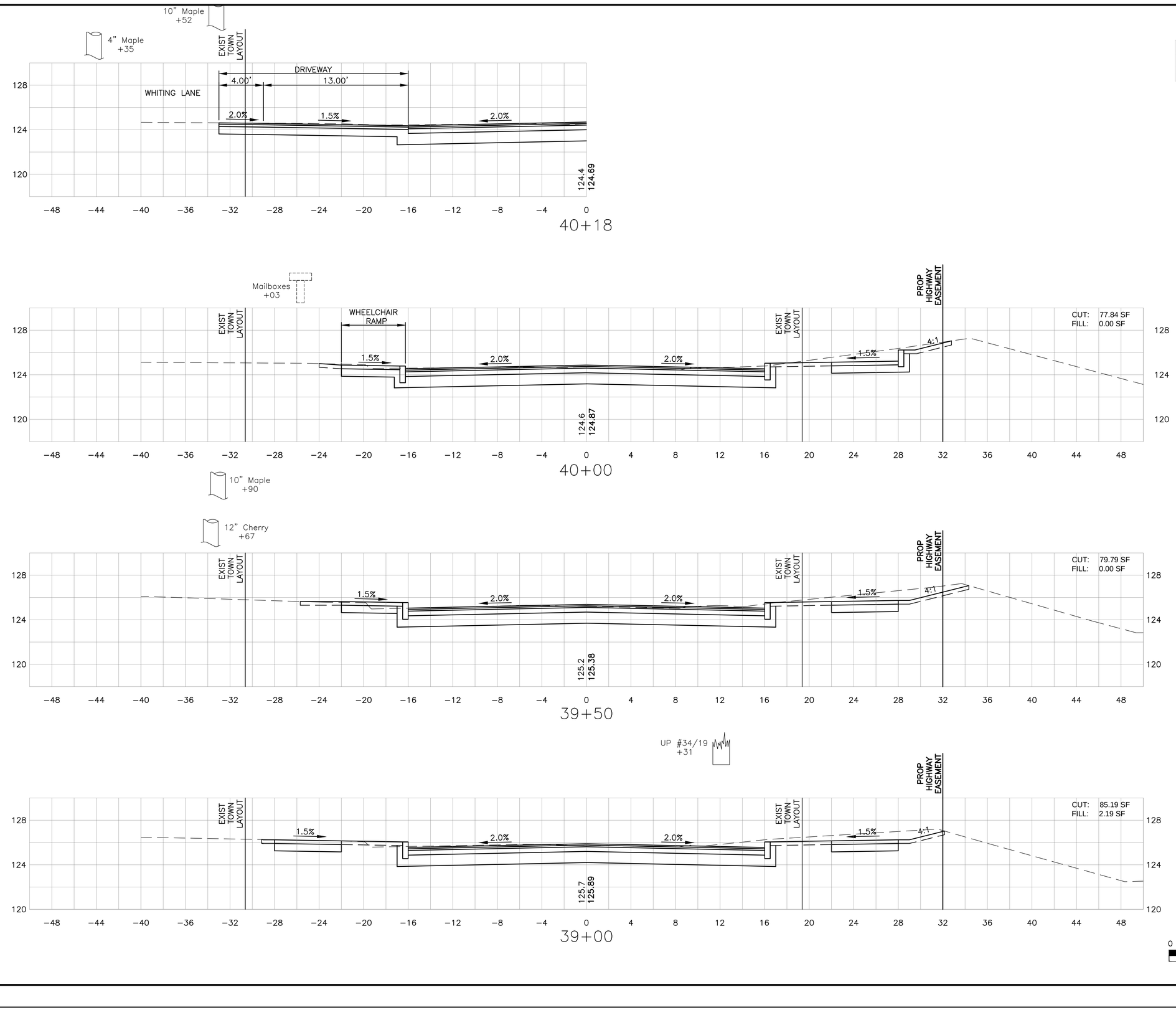
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	111	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET

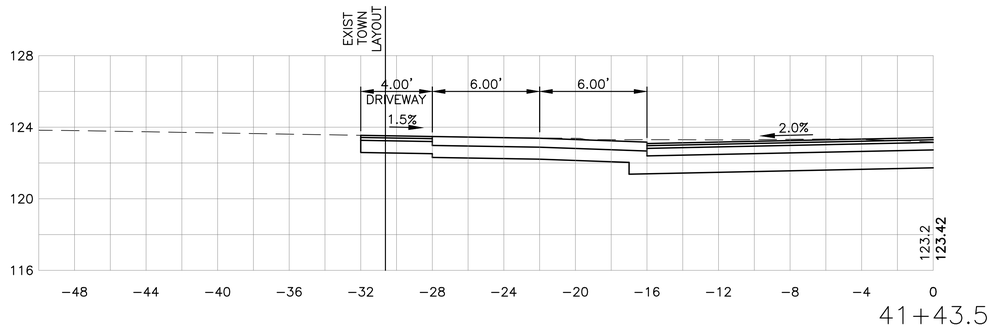


Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg, August 23, 2018

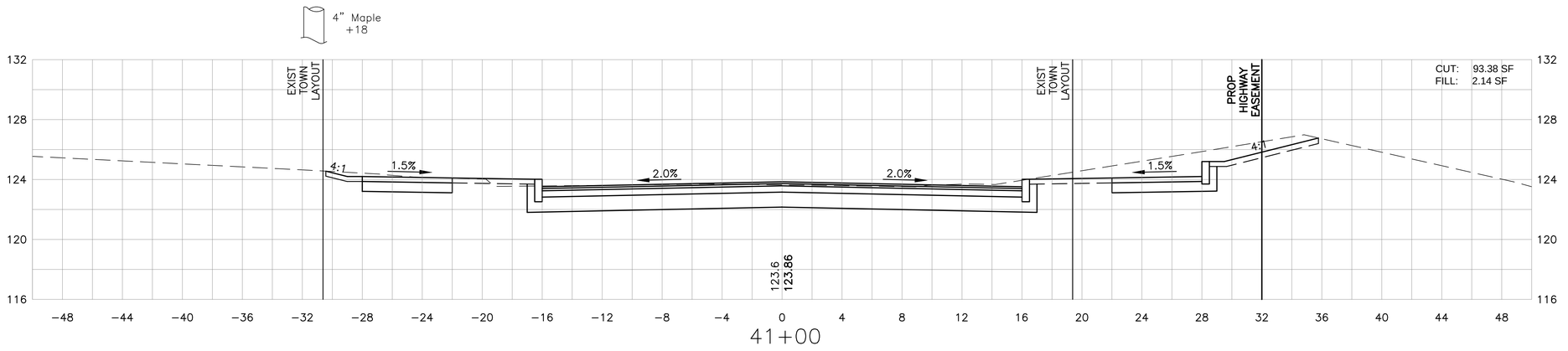
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	112	120
PROJECT FILE NO.	606264		

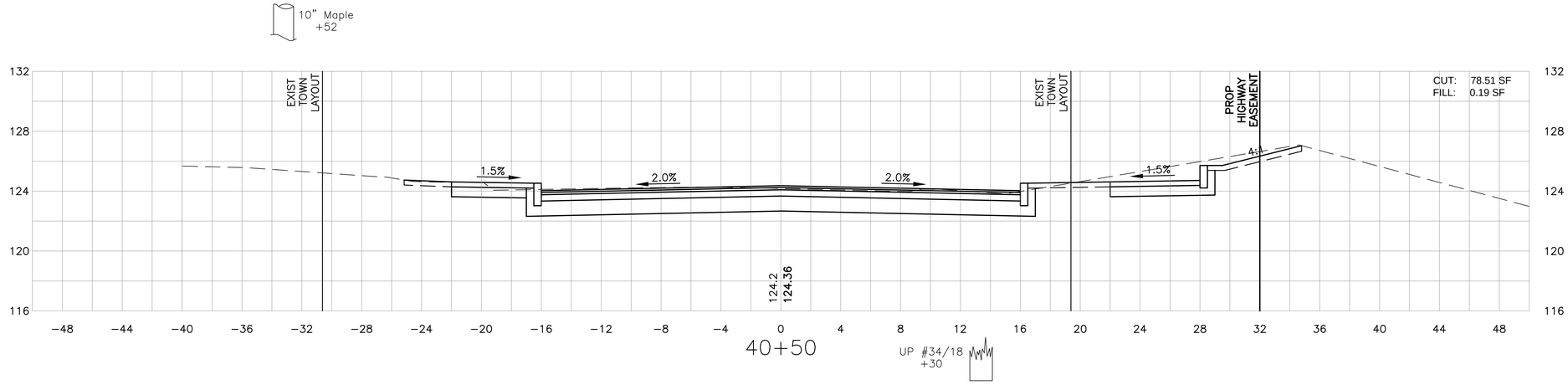
CROSS SECTIONS
OBERY STREET



41+43.5



41+00



40+50

SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	113	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET

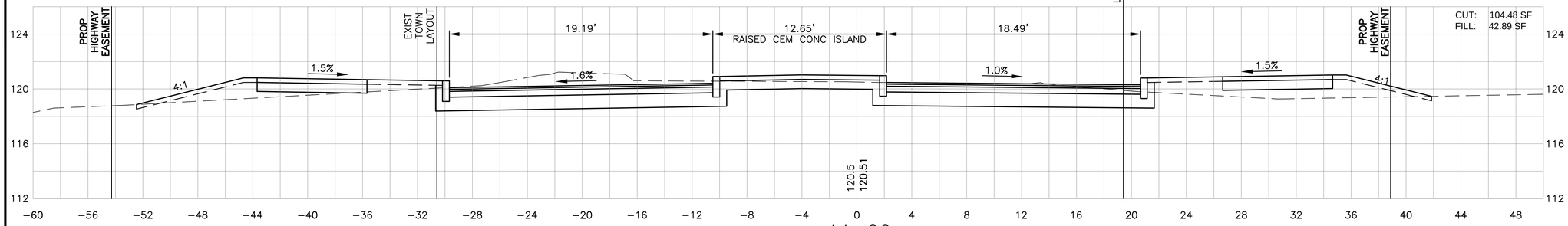
SCALE IN FEET
0 2 4 8 16
1" = 4'

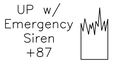
Jacobs - J:\2007 Projects\070013.2095\CAD\Civil\Final August 2018\95-120_CXS_002.dwg, August 23, 2018

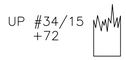
PLYMOUTH
OBERY STREET

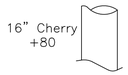
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	114	120
PROJECT FILE NO.	606264		

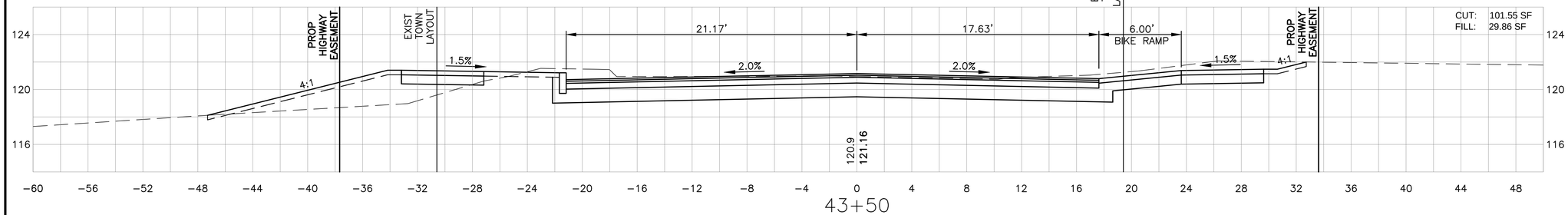
CROSS SECTIONS
OBERY STREET

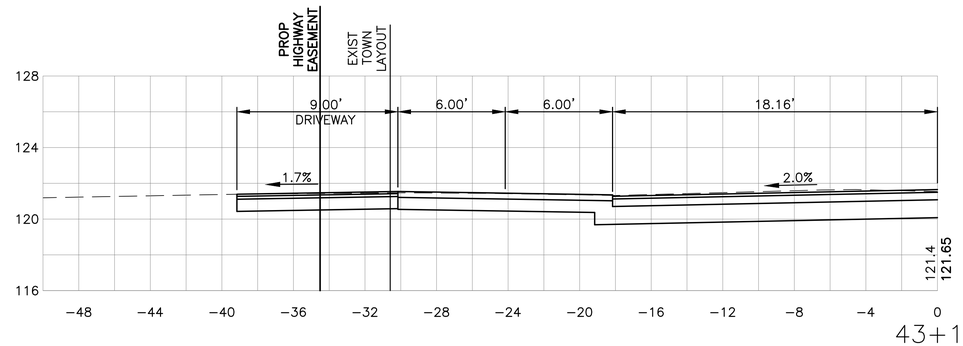


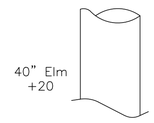


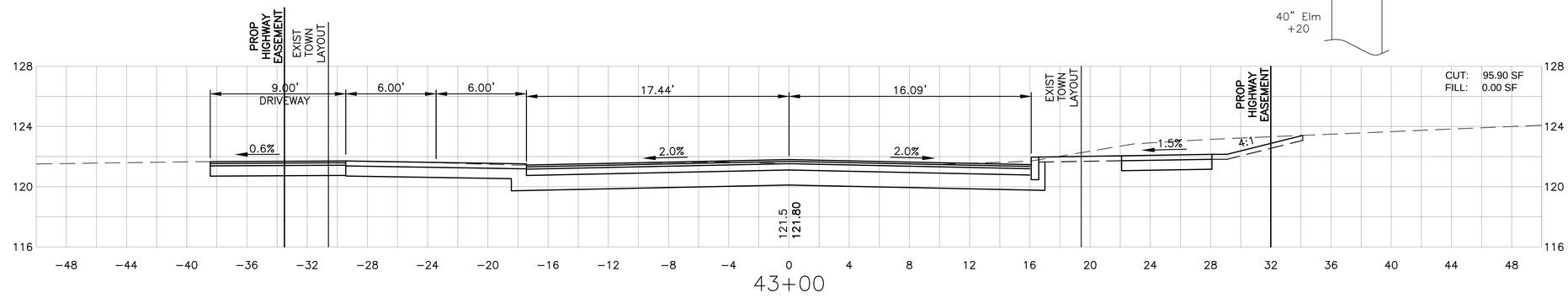












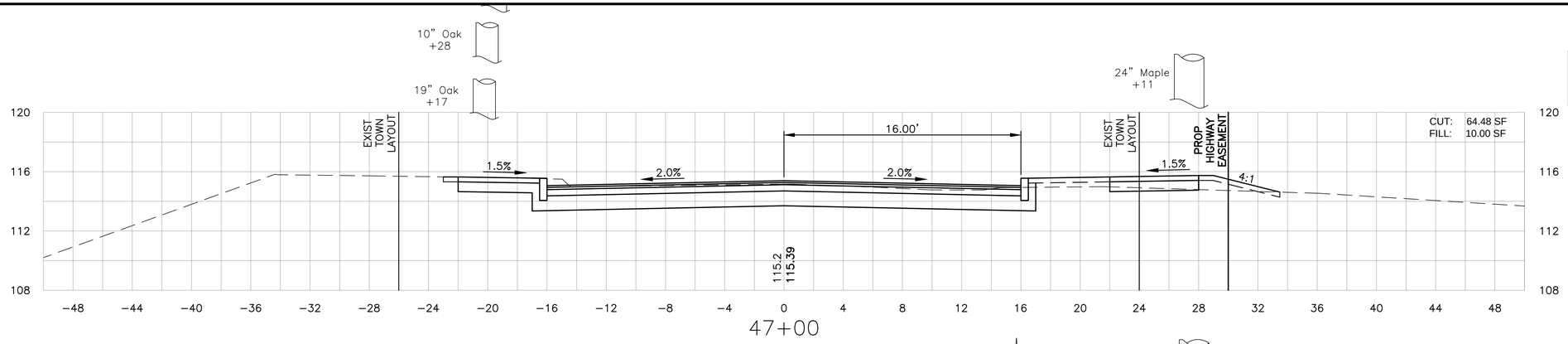
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - U:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	115	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET

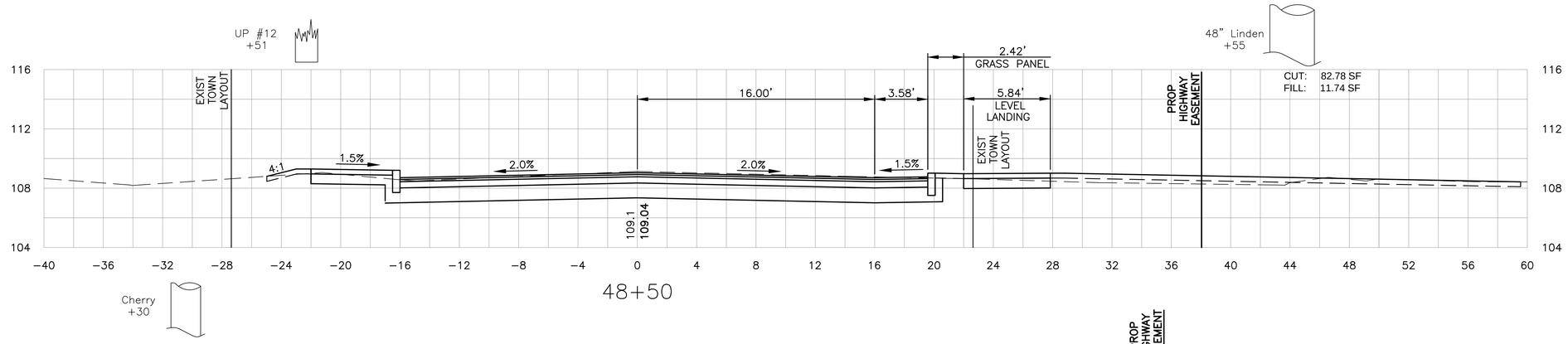


Jacobs - J:\2007 Projects\070013.209\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

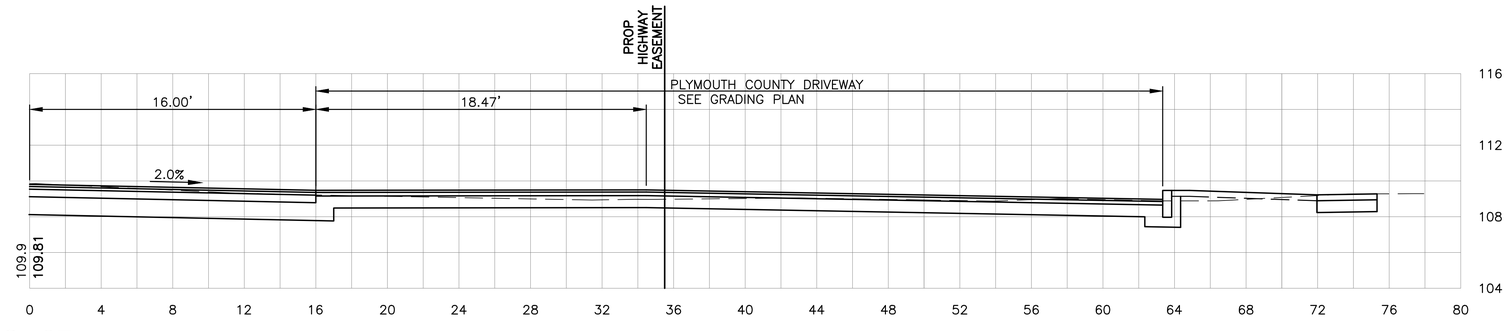
PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	116	120
PROJECT FILE NO.	606264		

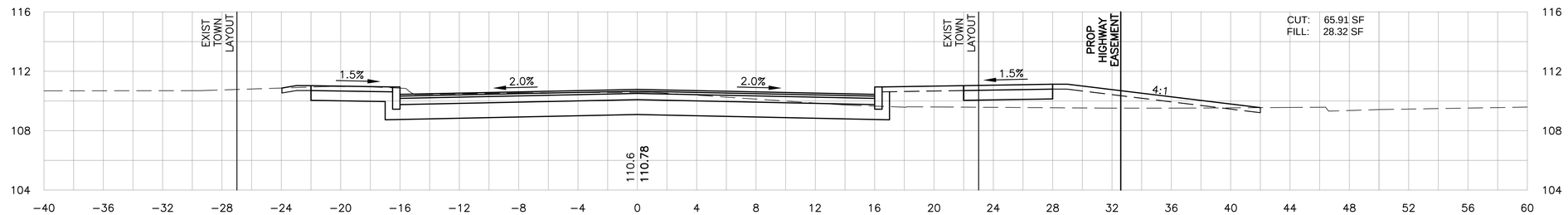
CROSS SECTIONS
OBERY STREET



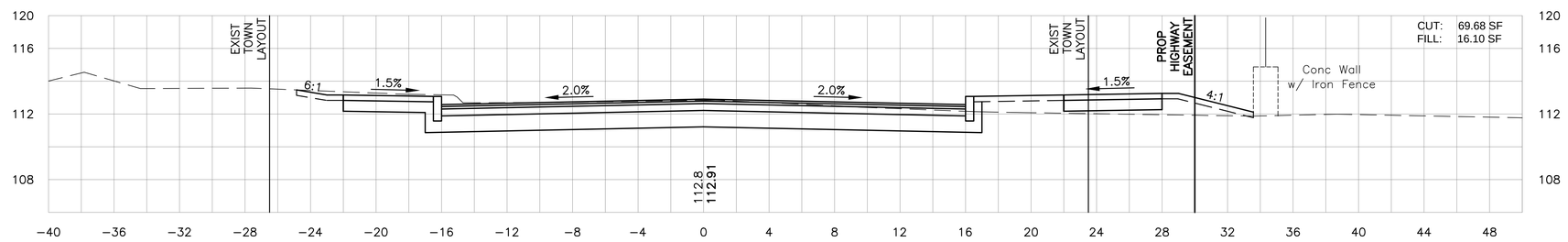
48+50



48+27



48+00



47+50

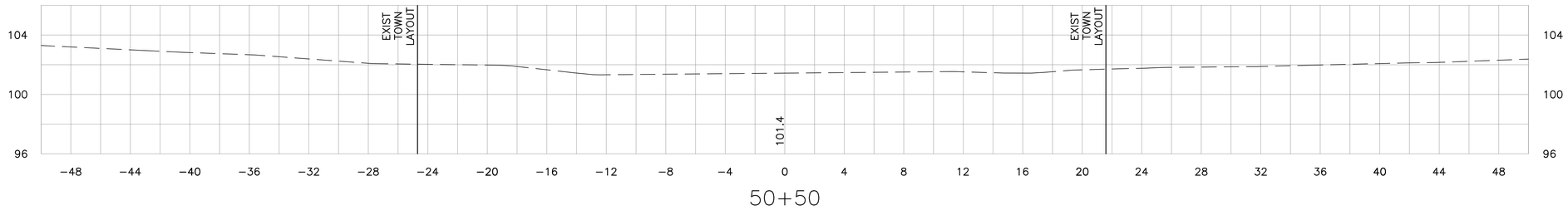
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CX5_002.dwg, August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	117	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
OBERY STREET



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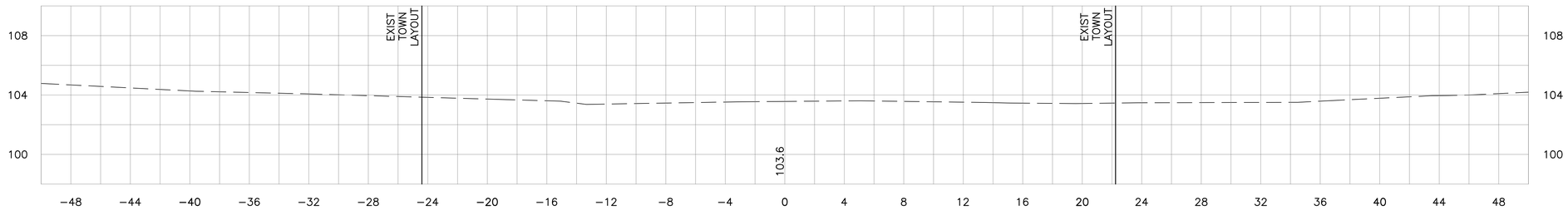

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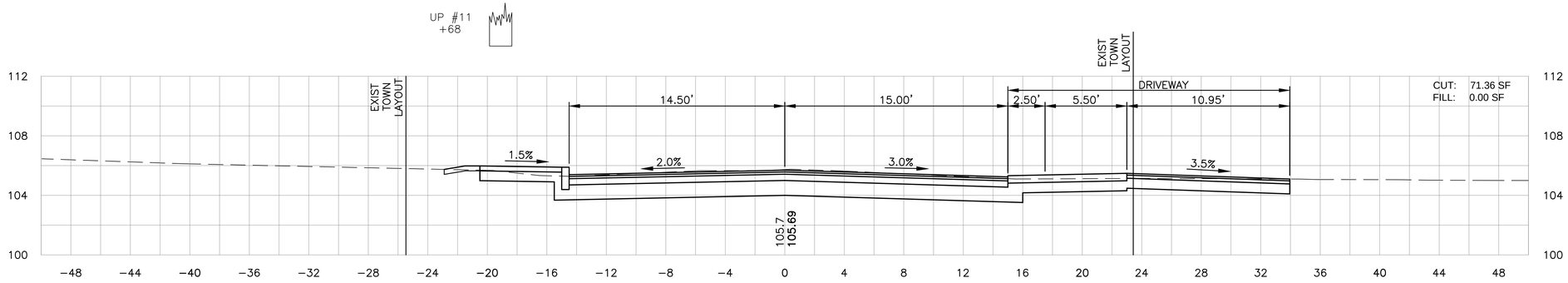
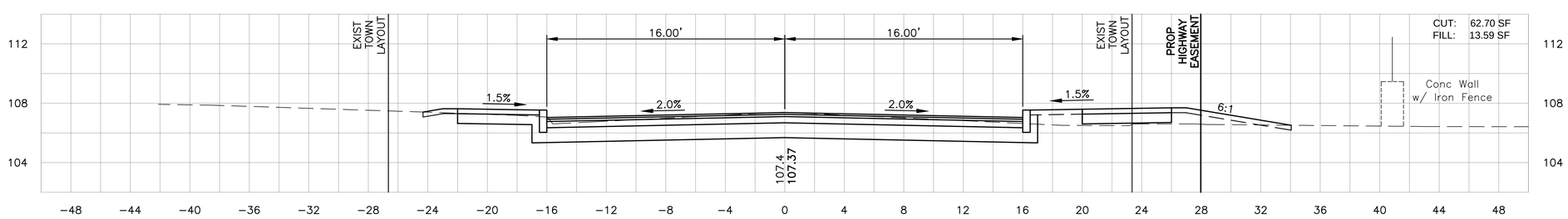


49+50



49+00

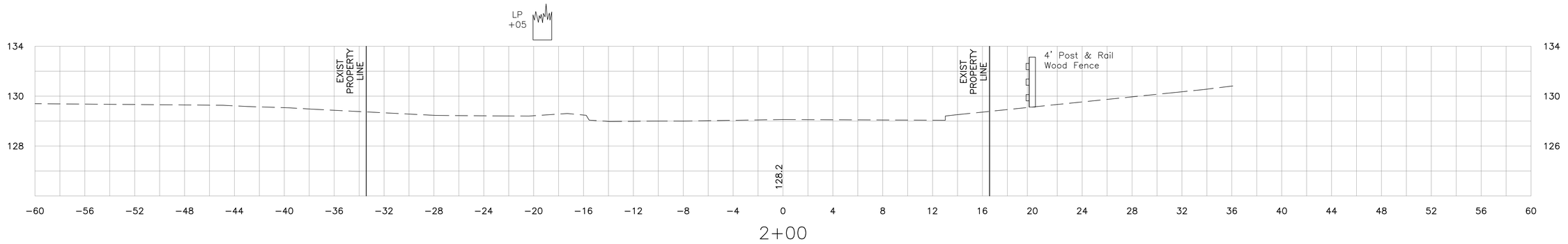
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.2095\CAD\Civil\Final August 2018\95-120_CXS_002.dwg, August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	118	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
COURTHOUSE DRIVE



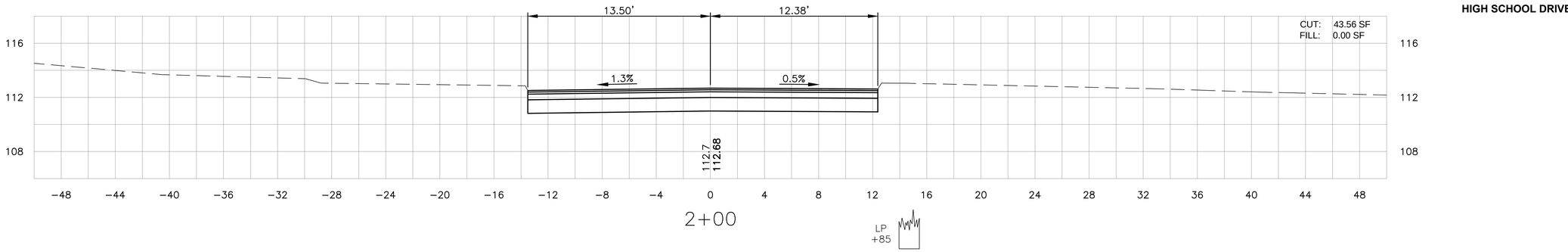
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - U:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	119	120
PROJECT FILE NO.	606264		

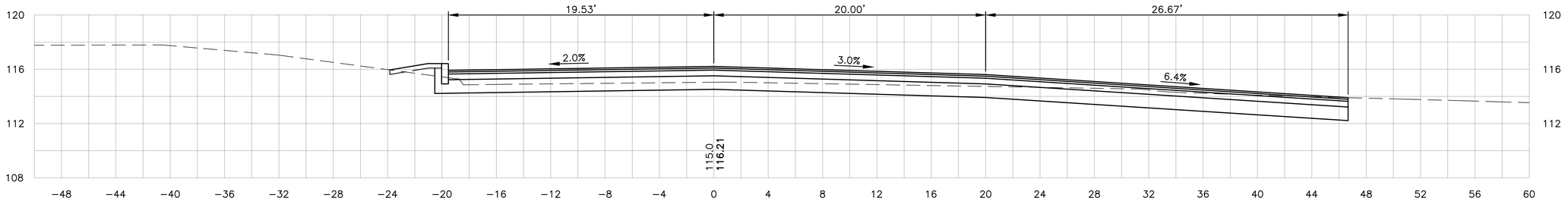
CROSS SECTIONS
HIGH SCHOOL DRIVE



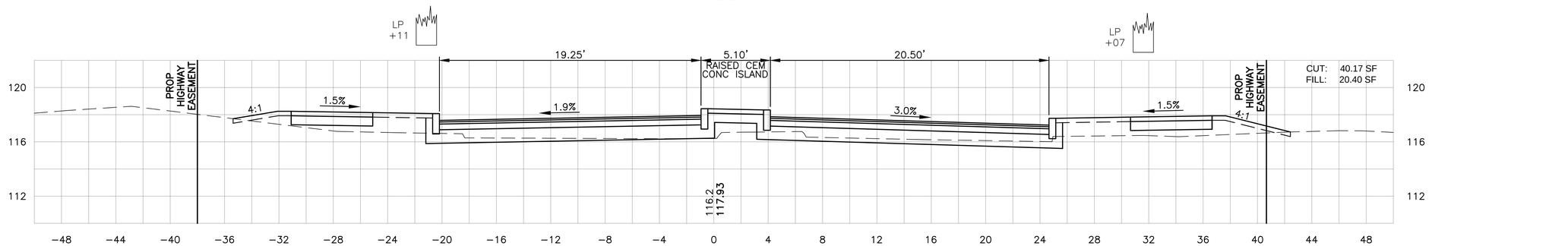
2+00

LP +85

1+50



1+33



1+00

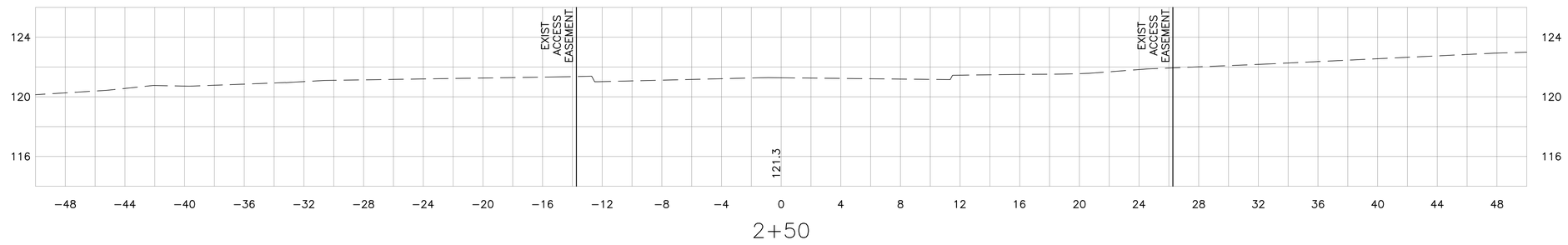
SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013 205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg August 23, 2018

PLYMOUTH
OBERY STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	STP-0035(204)X	120	120
PROJECT FILE NO.	606264		

CROSS SECTIONS
A.C. CARANCI WAY



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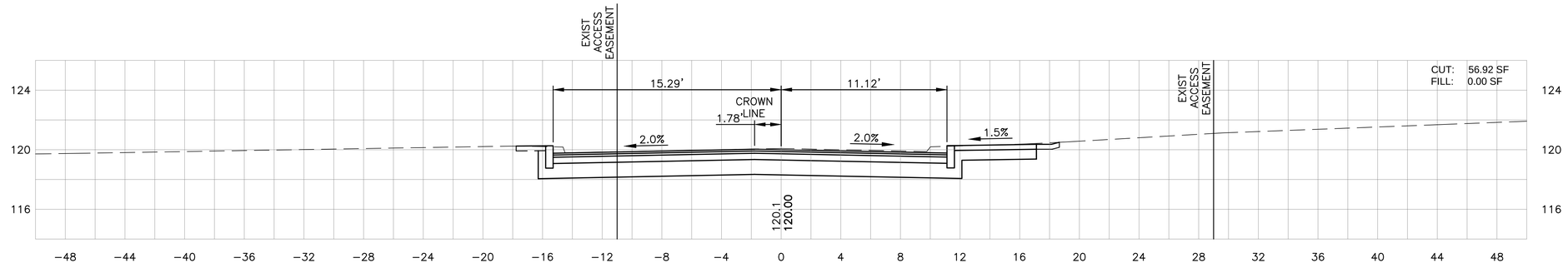
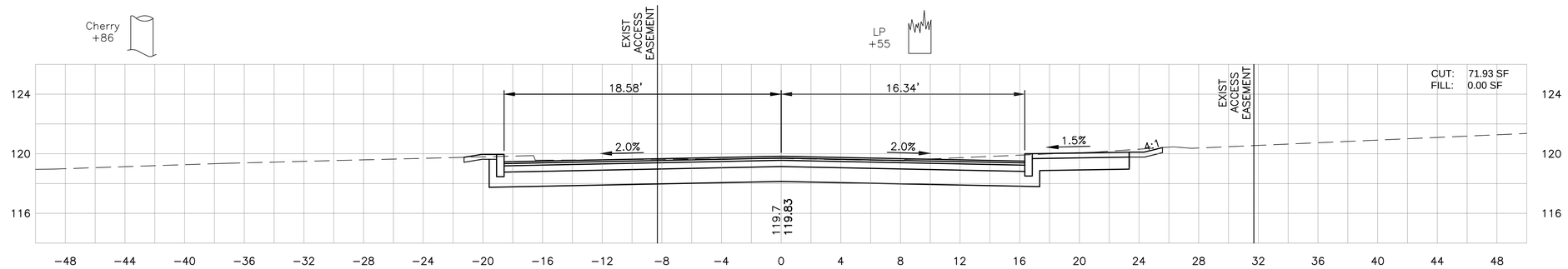
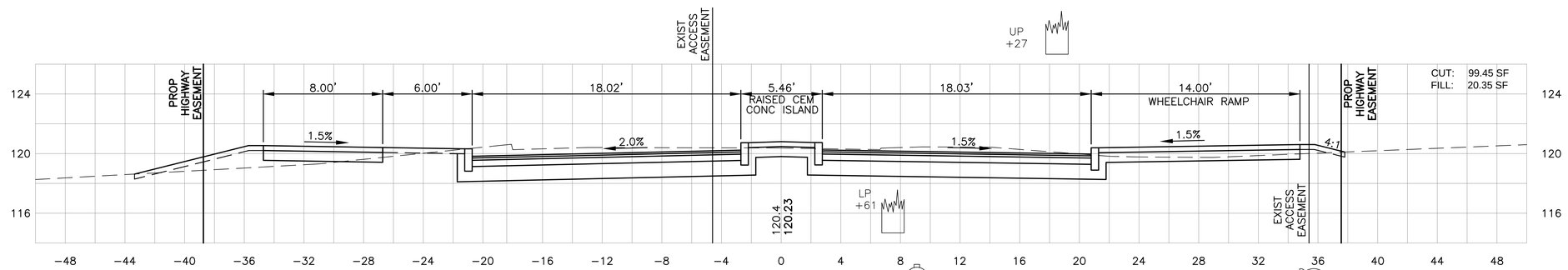


2+00



1+50



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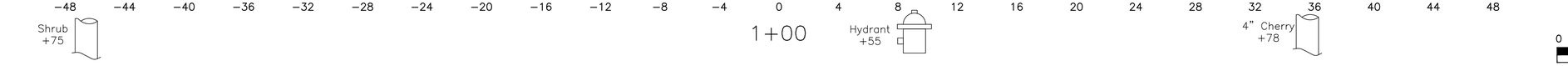

SCALE IN FEET
0 2 4 8 16
1" = 4'

Jacobs - J:\2007 Projects\070013.205\CAD\Civil\Final August 2018\95-120_CXS_002.dwg, August 23, 2018