WASHINGTON STREET CORRIDOR IMPROVEMENTS

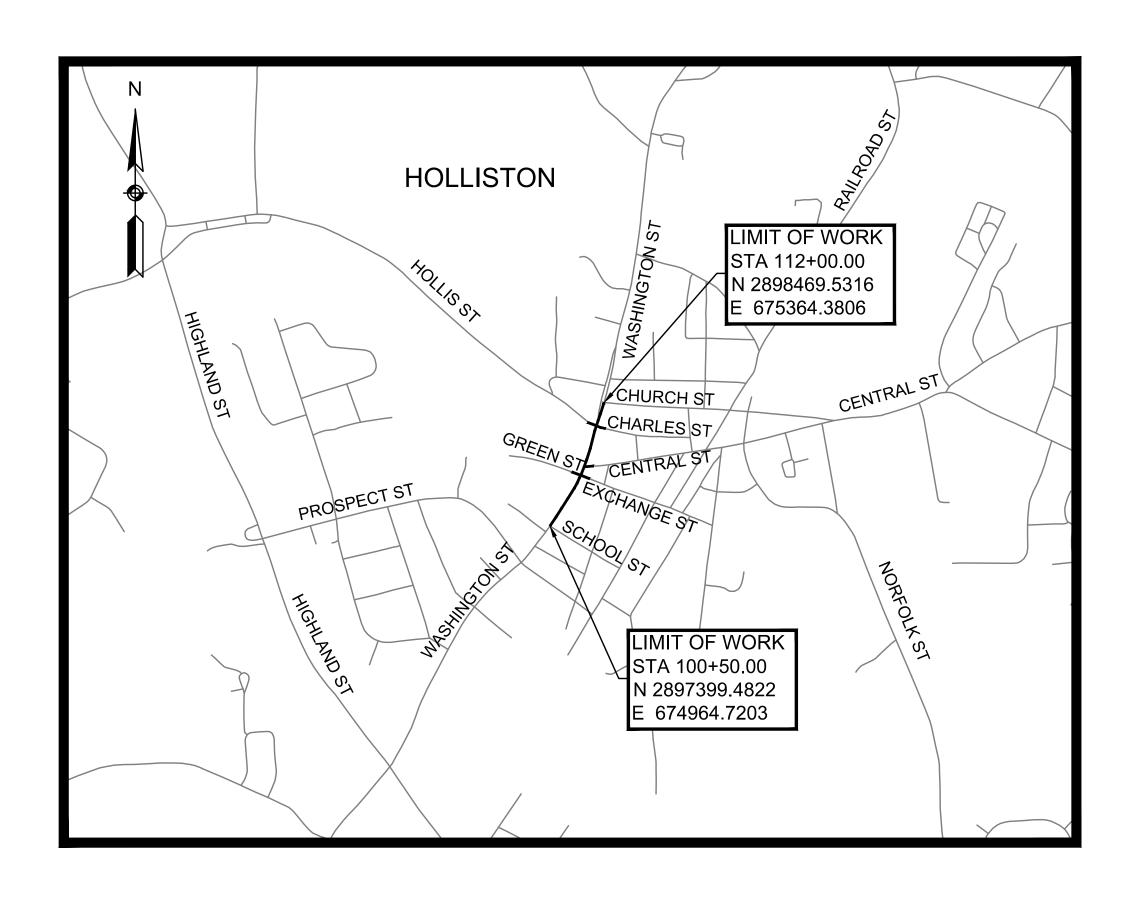
IN THE TOWN OF

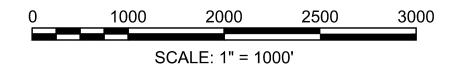
HOLLISTON MIDDLESEX COUNTY

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SHEET NO DESCRIPTION

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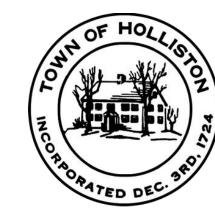


LENGTH OF PROJECT = 1450.00 FEET = 0.275 MILES

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 2015, THE LATEST EDITION OF THE SUPPLEMENTAL SPECIFICATIONS, THE DECEMBER 2016 CONSTRUCTION STANDARD DETAILS, THE 1996 CONSTRUCTION AND TRAFFIC STANDARD DETAILS (AS RELATES TO TRAFFIC STANDARD DETAILS ONLY), THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

JUNE 21, 2017

PREPARED FOR:



TOWN OF HOLLISTON 703 WASHINGTON STREET HOLLISTON, MA 01746

PREPARED BY:



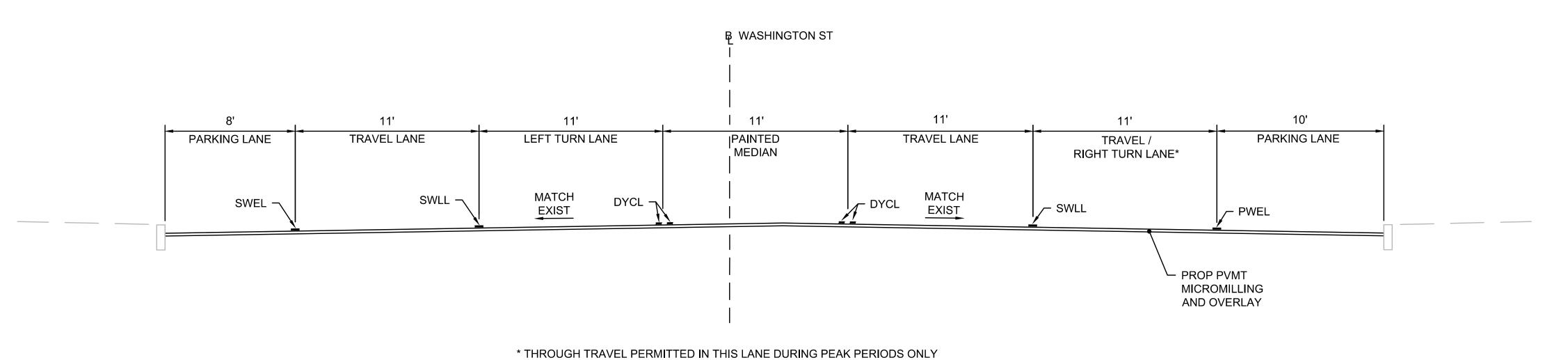
45 Bromfield St, 6th Fir BOSTON, MA 02108 TEL: (617) 556-0020 FAX: (617) 556-0025 300 Myles Standish Blvd TAUNTON, MA 02780 TEL: (508) 823-2245 FAX: (508) 823-2246

	DLS		TRAFFIC SYMBOI			ABBREVIA	HONS	- 14/4	HOLLISTON
	PROPOSED	<u>DESCRIPTION</u>	EXISTING	PROPOSED	DESCRIPTION	GENERAL		WA	ASHINGTON ST CORRIDOR IMPROVEM
☐ JB	JB ○	JERSEY BARRIER	01	Ø 1	CONTROLLER PHASE ACTUATED	AADT ABAN	ANNUAL AVERAGE DAILY TRAFFIC ABANDON		SHEET TOTAL NO. SHEETS
	СВ	CATCH BASIN				ADJ	ADJUST		2 22
 ∅ FP	(III) (A) ED	CATCH BASIN CURB INLET			TRAFFIC SIGNAL HEAD (SIZE AS NOTED)	APPROX	APPROXIMATE		LEGEND AND ABBREVIATIONS
Ø FP GIGP	♥ FP G GP	FLAG POLE GAS PLIMP	<u>[O]</u>			AC	ASPHALT CONCRETE		
G GP ⊐ MB	© GP □ MB	GAS PUMP MAIL BOX			WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)	ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE		
		POST SQUARE	72	7	VIDEO DETECTION CAMERA	BIT	BITUMINOUS		
	0	POST CIRCULAR		_		ВС	BOTTOM OF CURB		
WELL	⊕ WELL	WELL		>=	MICROWAVE DETECTOR	BD	BOUND		
EHH	□ EHH	ELECTRIC HANDHOLE	\oplus	•	PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE	BL	BASELINE	ABBREVIA	ATIONS (cont)
0	0	FENCE GATE POST	*	*	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT	BLDG	BUILDING		,
GG	o GG	GAS GATE	<	←		BM	BENCHMARK	GENERAL	
BHL #	◆ BHL #	BORING HOLE	←		VEHICULAR SIGNAL HEAD	ВО	BY OTHERS	PWW	PAVED WATER WAY
MW #	→ MW #	MONITORING WELL	≪	₩	VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED	BOS BR	BOTTOM OF SLOPE BRIDGE	R&D	RADIUS OF CURVATURE
TP #	■ TP#	TEST PIT	←	←	FLASHING BEACON	CB	CATCH BASIN	RCP	REMOVE AND DISPOSE REINFORCED CONCRETE PIPE
P	P	HYDRANT			PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)	CBCI	CATCH BASIN WITH CURB INLET	RD	ROAD
*	*	LIGHT POLE				CC	CEMENT CONCRETE	RDWY	ROADWAY
CO.BD.		COUNTY BOUND	☑ RRSG	⊠ RRSG	RAILROAD SIGNAL	CCM	CEMENT CONCRETE MASONRY	REM	REMOVE
		GPS POINT	-Q- OR O	•	SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)	CEM	CEMENT	RET	RETAIN
(c)	©	CABLE MANHOLE	o—O	•——	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)	CI	CURB INLET	RET WALL	RETAINING WALL
0	(b)	DRAINAGE MANHOLE		XX' MA	·	CIP	CAST IRON PIPE	ROW	RIGHT OF WAY
(E)	E)	ELECTRIC MANHOLE			HIGH MAST POLE OR TOWER	CLF	CHAIN LINK FENCE	RR	RAILROAD
	(GAS MANHOLE MISC MANHOLE		•	SIGN AND POST	CL	CENTERLINE	R&R	REMOVE AND RESET
(S)	(M) (S)	SEWER MANHOLE	00	00	SIGN AND POST (2 POSTS)	CMP	CORRUGATED METAL PIPE	R&S	REMOVE AND STACK
(T)) Ti	TELEPHONE MANHOLE	0 0	_		CSP	CORRUGATED STEEL PIPE	RT SB	RIGHT
w	₩	WATER MANHOLE		XX' MA	MAST ARM WITH LUMINAIRE	CO	COUNTY	SB SHLD	STONE BOUND SHOULDER
MHB	■ MHB	MASSACHUSETTS HIGHWAY BOUND			OPTICAL PRE-EMPTION DETECTOR	CONC	CONCRETE	SHLD SMH	SHOULDER SEWER MANHOLE
MON		MONUMENT		\bowtie	CONTROL CABINET, GROUND MOUNTED	CONT CONST	CONTINUOUS CONSTRUCTION	SIVIN	STREET
SB		STONE BOUND				CONST CR GR	CROWN GRADE	STA	STATION
TB		TOWN OR CITY BOUND		_	CONTROL CABINET, POLE MOUNTED	DHV	DESIGN HOURLY VOLUME	SSD	STOPPING SIGHT DISTANCE
Δ		TRAVERSE OR TRIANGULATION STATION			FLASHING BEACON CONTROL AND METER PEDESTAL	DI	DROP INLET	SHLO	STATE HIGHWAY LAYOUT LINE
	P TPL or GUY	TROLLEY POLE OR GUY POLE		_ ⊠	LOAD CENTER ASSEMBLY	DIA	DIAMETER	SW	SIDEWALK
HTP		TRANSMISSION POLE				DIP	DUCTILE IRON PIPE	Т	TANGENT DISTANCE OF CURVE/TRUC
	-∳- UFB	UTILITY POLE W/ FIREBOX			PULL BOX 12"x12" (OR AS NOTED)	DWY	DRIVEWAY	TAN	TANGENT
	-∳- UPDL	UTILITY POLE WITH DOUBLE LIGHT			ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)	ELEV (or EL)	ELEVATION	TEMP	TEMPORARY
	& ULT	UTILITY POLE W / 1 LIGHT			= TRAFFIC SIGNAL CONDUIT	EMB	EMBANKMENT	TC	TOP OF CURB
	-∽ UPL	UTILITY POLE			- ITAITIC SIGNAL CONDOTT	EOP	EDGE OF PAVEMENT	TOS	TOP OF SLOPE
		BUSH				EXIST (or EX)		TYP UP	TYPICAL UTILITY POLE
& TYPE		TREE STUMP				EXC	EXCAVATION	VAR	VARIES
<u></u>		SWAMP / MARSH				F&C	FRAME AND COVER	VAR	VARICAL
WG	• WG	WATER GATE				F&G	FRAME AND GRATE	VC	VERTICAL CURVE
PM	• PM	PARKING METER				FDN	FOUNDATION	VGC	VERTICAL GRANITE CURB
		- OVERHEAD CABLE/WIRE				FLDSTN GAR	FIELDSTONE GARAGE	WCR	CURB RAMP
						GD	GROUND	WG	WATER GATE
		- CONTOURS (ON-THE-GROUND SURVEY DATA)				GG	GAS GATE	WIP	WROUGHT IRON PIPE
99		- CONTOURS (PHOTOGRAMMETRIC DATA)				GI	GUTTER INLET	WM	WATER METER/WATER MAIN
		- UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)				GIP	GALVANIZED IRON PIPE	X-SECT	CROSS SECTION
		- UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)							
						GRAN	GRANITE		
		- UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)				GRAN GRAV	GRANITE GRAVEL		
		- UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)	PAVEMENT MARK	(INGS SYMBOLS				TD 4 EE 10 (
_		- UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) - UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)	PAVEMENT MARK	(INGS SYMBOLS		GRAV GRD HDW	GRAVEL GUARD HEADWALL	TRAFFIC	
_		- 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)	PAVEMENT MARK	(INGS SYMBOLS PROPOSED	DESCRIPTION	GRAV GRD HDW HMA	GRAVEL GUARD HEADWALL HOT MIX ASPHALT	CAB	CABINET
_		 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 			DESCRIPTION	GRAV GRD HDW HMA HOR	GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL	CAB CCVE	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT
	*************	- 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		PROPOSED	DESCRIPTION PAVEMENT ARROW - WHITE THERMOPLASTIC	GRAV GRD HDW HMA HOR HYD	GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT	CAB CCVE DW	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK
	××××××××××××××××××××××××××××××××××××××	- 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		PROPOSED	DESCRIPTION	GRAV GRD HDW HMA HOR HYD INV	GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT	CAB CCVE DW EB	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK EASTBOUND
	x	- 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		PROPOSED	DESCRIPTION PAVEMENT ARROW - WHITE THERMOPLASTIC	GRAV GRD HDW HMA HOR HYD	GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION	CAB CCVE DW EB FDW	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK EASTBOUND FLASHING DON'T WALK
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		- 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 - TREE LINE		PROPOSED 1 IV	DESCRIPTION PAVEMENT ARROW - WHITE THERMOPLASTIC LEGEND "ONLY" - WHITE THERMOPLASTIC	GRAV GRD HDW HMA HOR HYD INV JCT L LB	GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN	CAB CCVE DW EB FDW FR FRL	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY DON'T WALK EASTBOUND FLASHING DON'T WALK FLASHING CIRCULAR RED FLASHING RED LEFT ARROW
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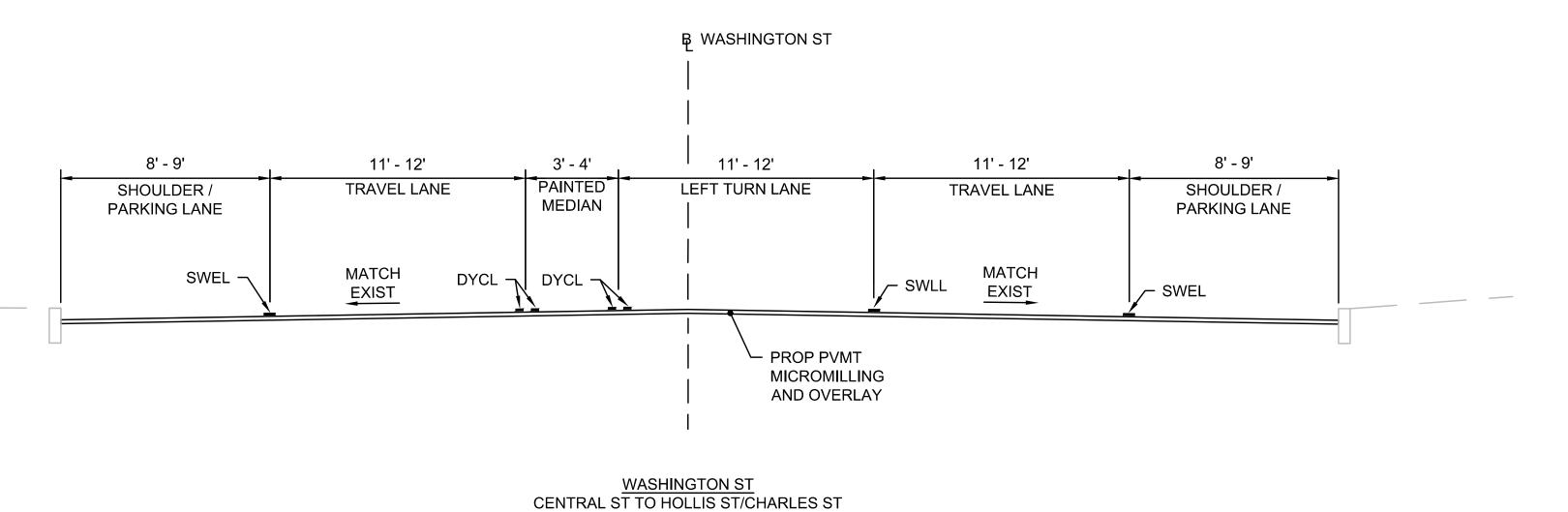
В WASHINGTON ST VARIES — **VARIES** (11' MIN) 12' 8' - 10' TRAVEL LANE TRAVEL LANE* SHOULDER / TRAVEL LANE PARKING LANE PARKING LANE MATCH SWLL -EXIST EXIST - PROP PVMT MICROMILLING AND OVERLAY

* TRAVEL PERMITTED IN THIS LANE DURING PEAK PERIODS ONLY

<u>WASHINGTON ST</u> SOUTH OF GREEN ST/EXCHANGE ST



<u>WASHINGTON ST</u> GREEN ST/EXCHANGE ST TO CENTRAL ST



PAVEMENT NOTES

PROPOSED PAVEMENT MICROMILLING AND OVERLAY

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

2" PAVEMENT MICROMILLING

ASPHALT EMULSION FOR TACK COAT (RS-1H) AT 0.07 GAL/SY OVER MILLED PAVEMENT

PROPOSED HMA DRIVEWAY

SURFACE: 1.5" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER

2" SUPERPAVE INTERMEDIATE COURSE 12.5 (SSC-12.5) OVER

8" GRAVEL BORROW FOR SUB-BASE COURSE SUB-BASE:

PROPOSED CEMENT CONCRETE SIDEWALK AND WHEELCHAIR RAMPS

SURFACE: 4" CEMENT CONCRETE (4,000 PSI, 3/4", 610) OVER

FOUNDATION: 8" GRAVEL BORROW (TYPE b)

PROPOSED BRICK WALK

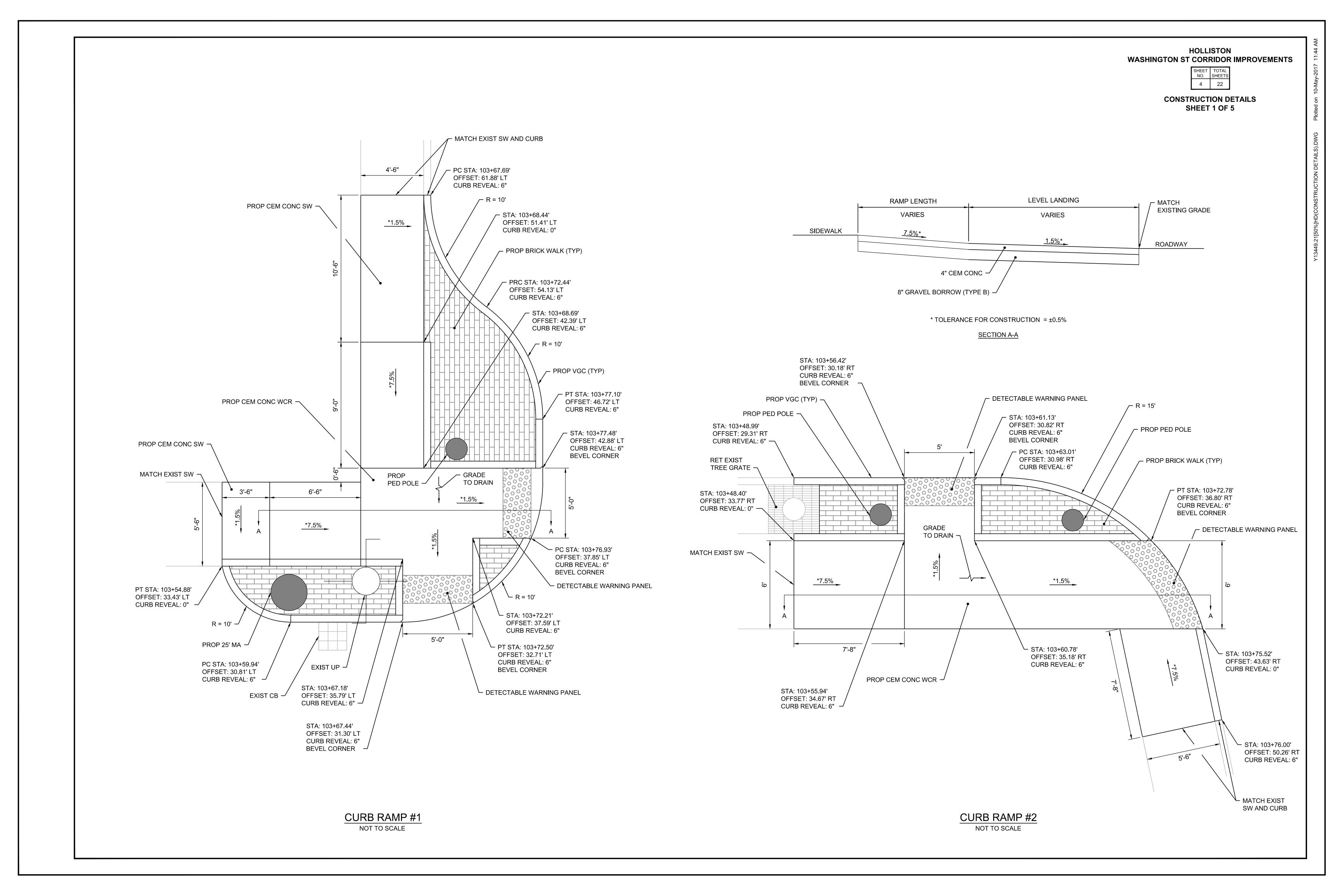
SURFACE: BRICK PAVERS (MATCH EXIST)* OVER

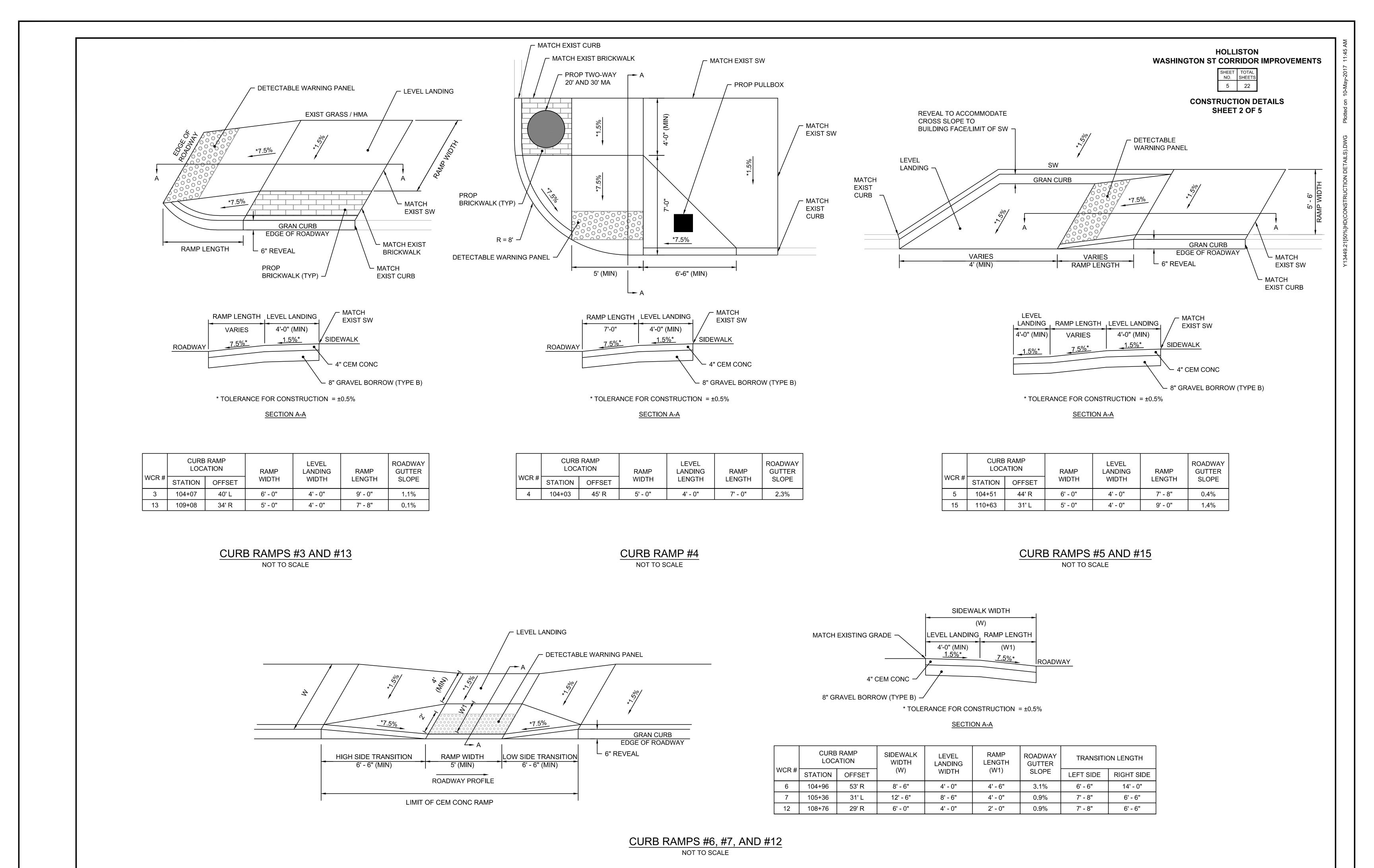
1" COMPACTED STONE DUST OVER

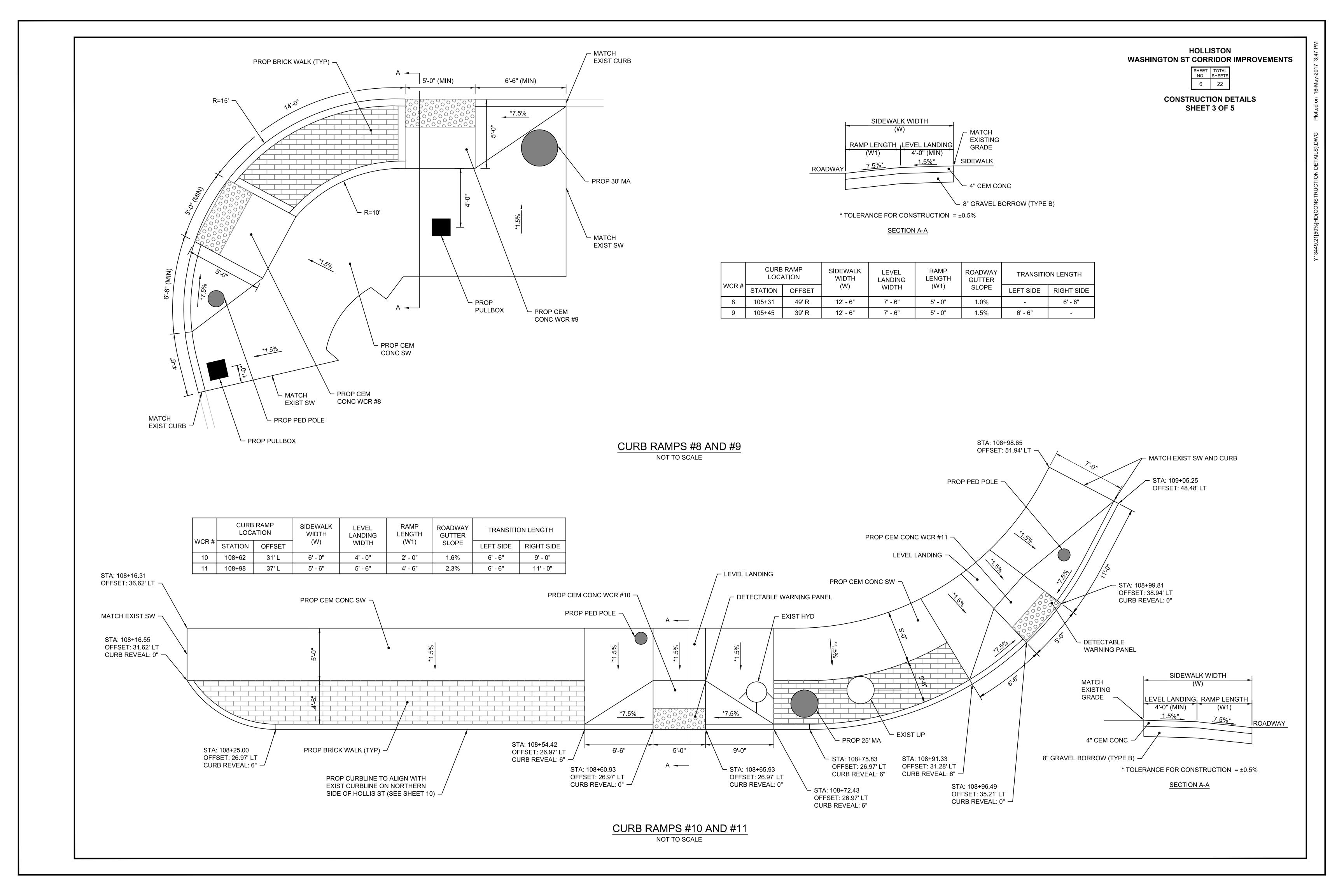
SUB-BASE: 8" GRAVEL BORROW (TYPE b)

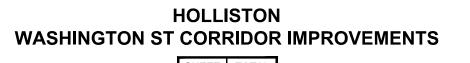
*BRICK WALK PATTERN, TYPE, AND COLOR TO MATCH EXIST.





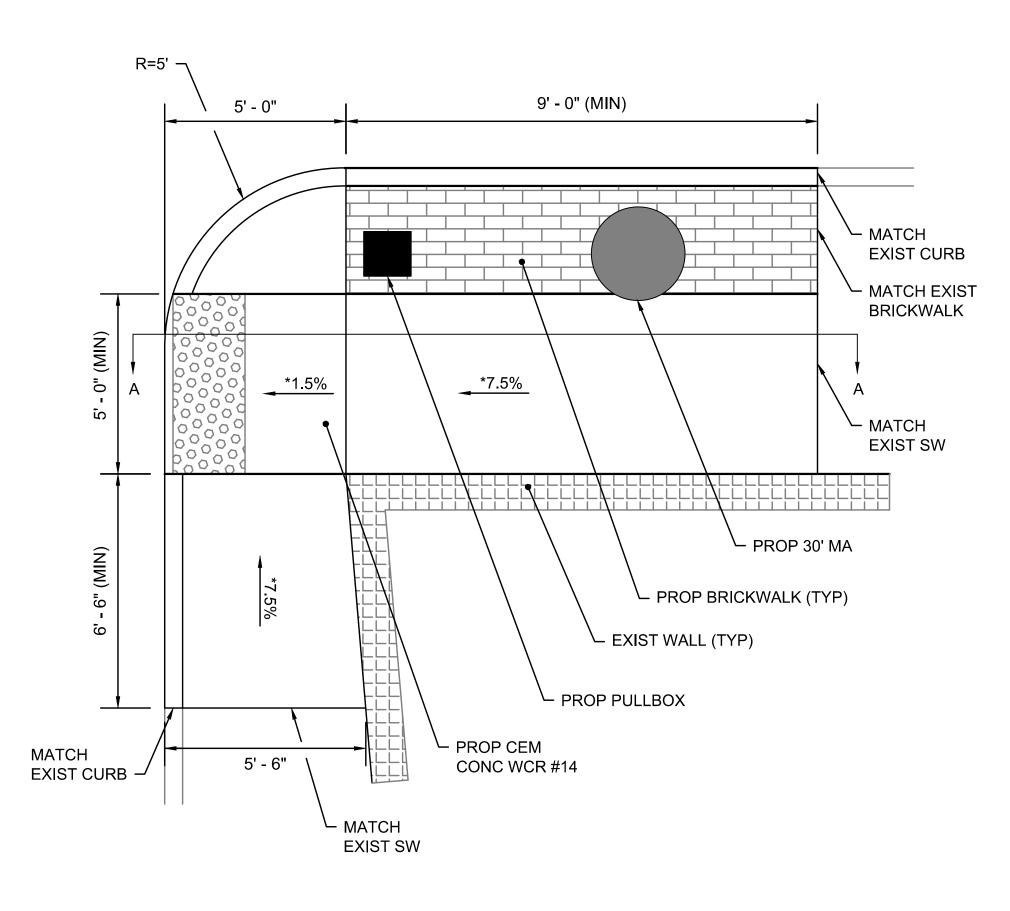


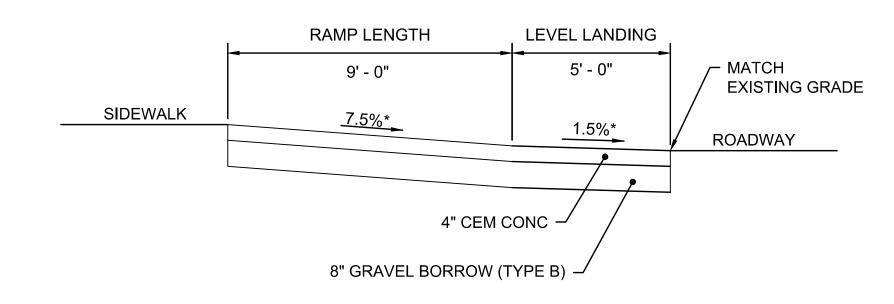




SHEET TOTAL SHEETS
7 22

CONSTRUCTION DETAILS
SHEET 4 OF 5





* TOLERANCE FOR CONSTRUCTION = $\pm 0.5\%$ SECTION A-A

WOD #	CURB RAMP LOCATION				RAMP	LEVEL LANDING	ROADWAY GUTTER	TRANSITION LENGTH			
WCR#	STATION	OFFSET	WIDTH	WIDTH 	SLOPE	LEFT SIDE	RIGHT SIDE				
14	109+34	35' R	5' - 0"	5' - 0"	1.9%	9' - 0"	6' - 6"				

SAWCUT (TYP) EXIST 3" RAISED MATCH EXIST CW TO BE MILLED PVMT THICKNESS -PROP PVMT MICROMILLING AND OVERLAY -30" L EXIST GRANITE BANDING EXIST GRANITE BANDING TO BE REMOVED TO BE REMOVED PROP CONTROLLED PROP CONTROLLED DENSITY FILL (TYP) DENSITY FILL (TYP)

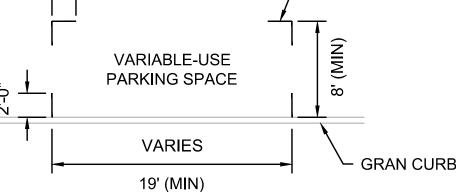
CURB RAMP #14

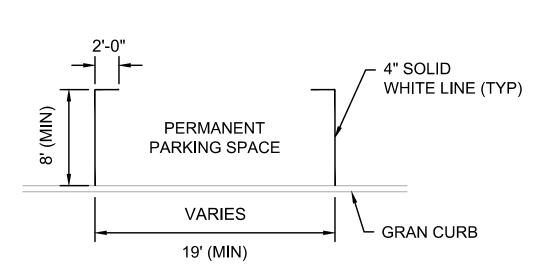
NOT TO SCALE

RAISED CROSSWALK REMOVAL

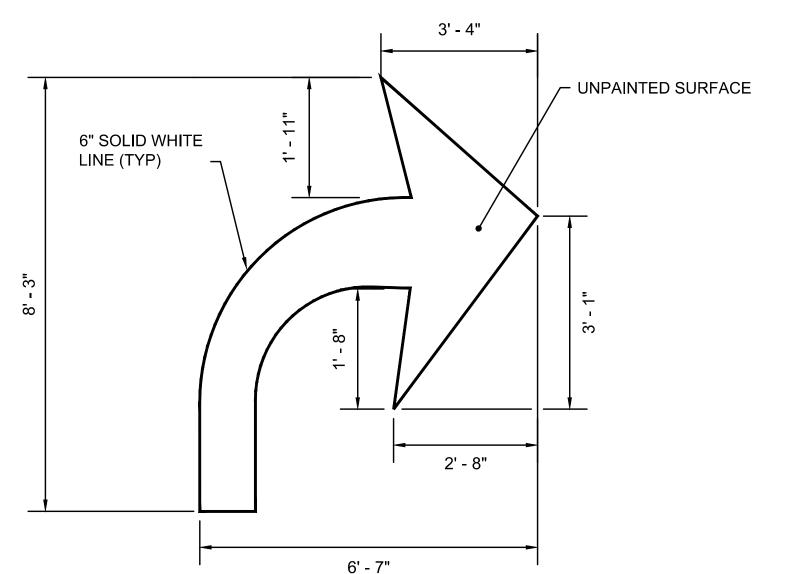
NOT TO SCALE



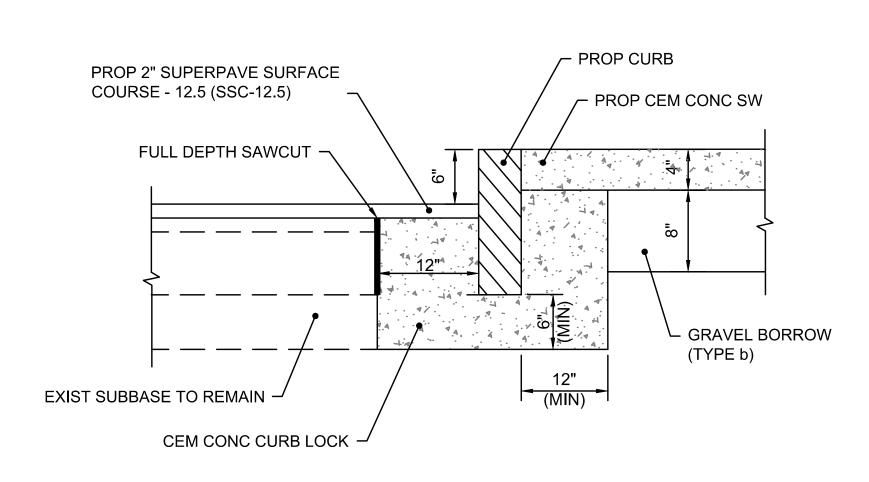




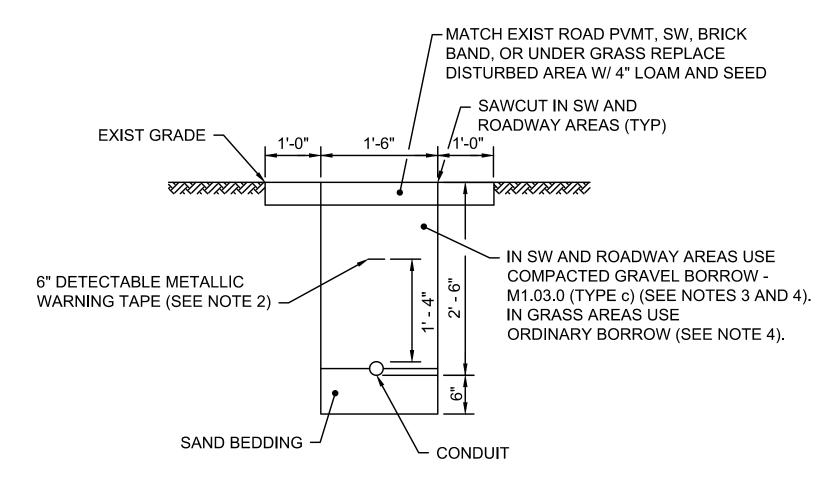
PARKING SPACE **PAVEMENT MARKINGS** NOT TO SCALE



VARIABLE TURN ARROW PAVEMENT MARKING NOT TO SCALE

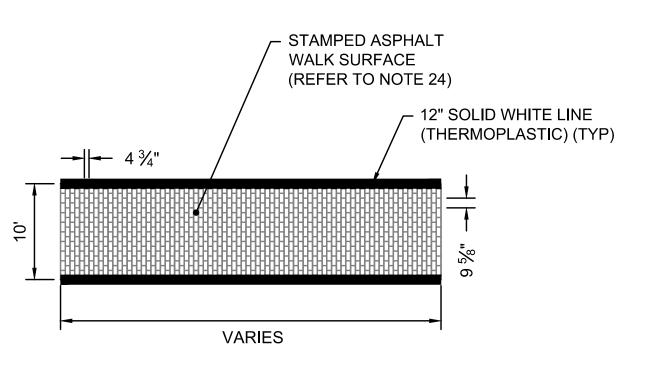


CURB SETTING NOT TO SCALE



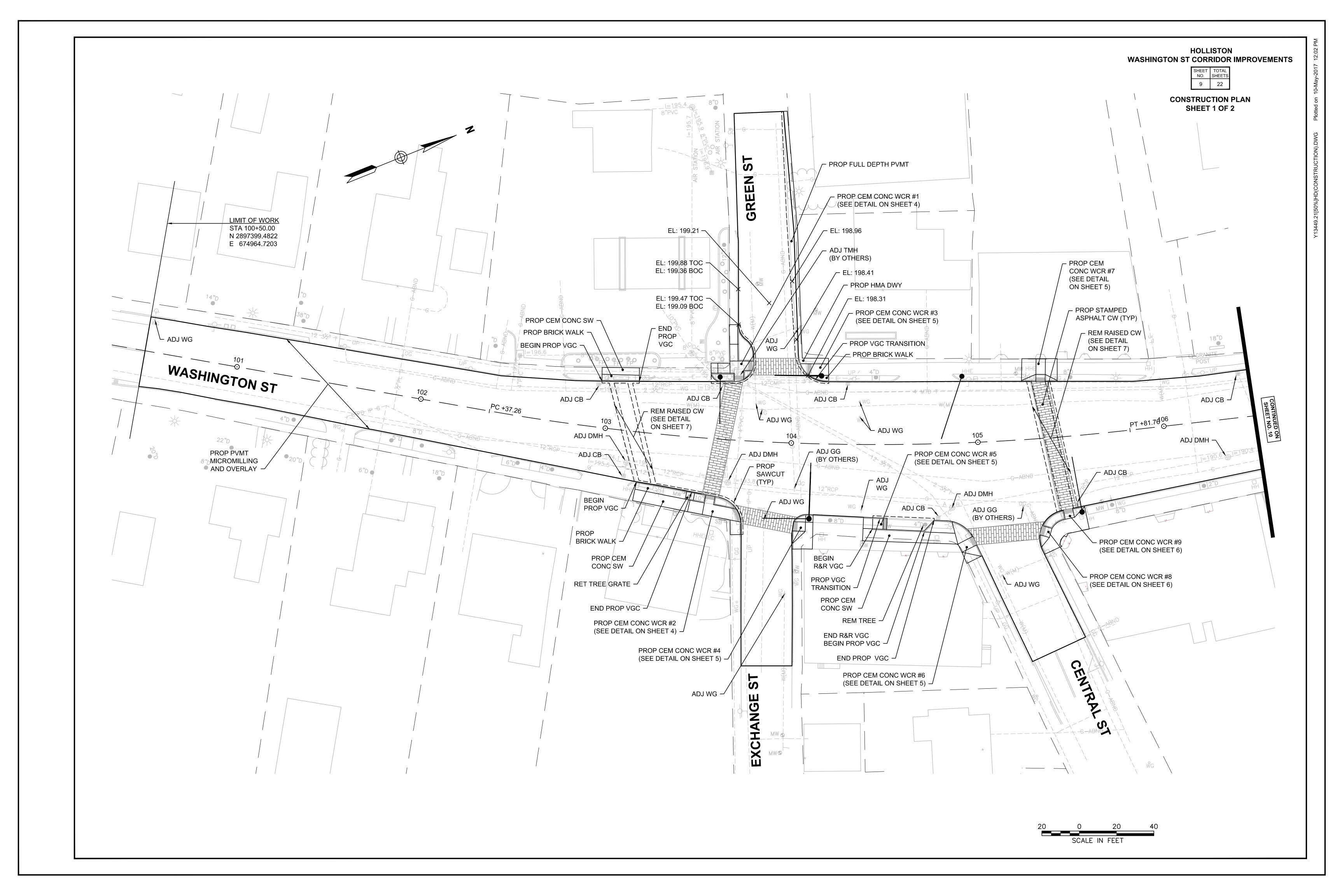
- 1. SCHEDULE 80 ELECTRICAL CONDUIT TYPE NM-PLASTIC (UL) W/ PULL ROPE.
- 2. WARNING TAPE SHALL BE PER CURRENT APWA STANDARDS.
- 3. CONTROL DENSITY FILL SHALL BE USED IN ROADWAY AREAS AS DETERMINED BY THE ENGINEER AND MEET THE REQUIREMENTS OF SUBSECTION M4.08.0
- 4. ALL STONES TO BE LESS THAN 2" UNDER SW AND ROADWAY. ALL STONES TO BE LESS THAN 3" UNDER GRASS.

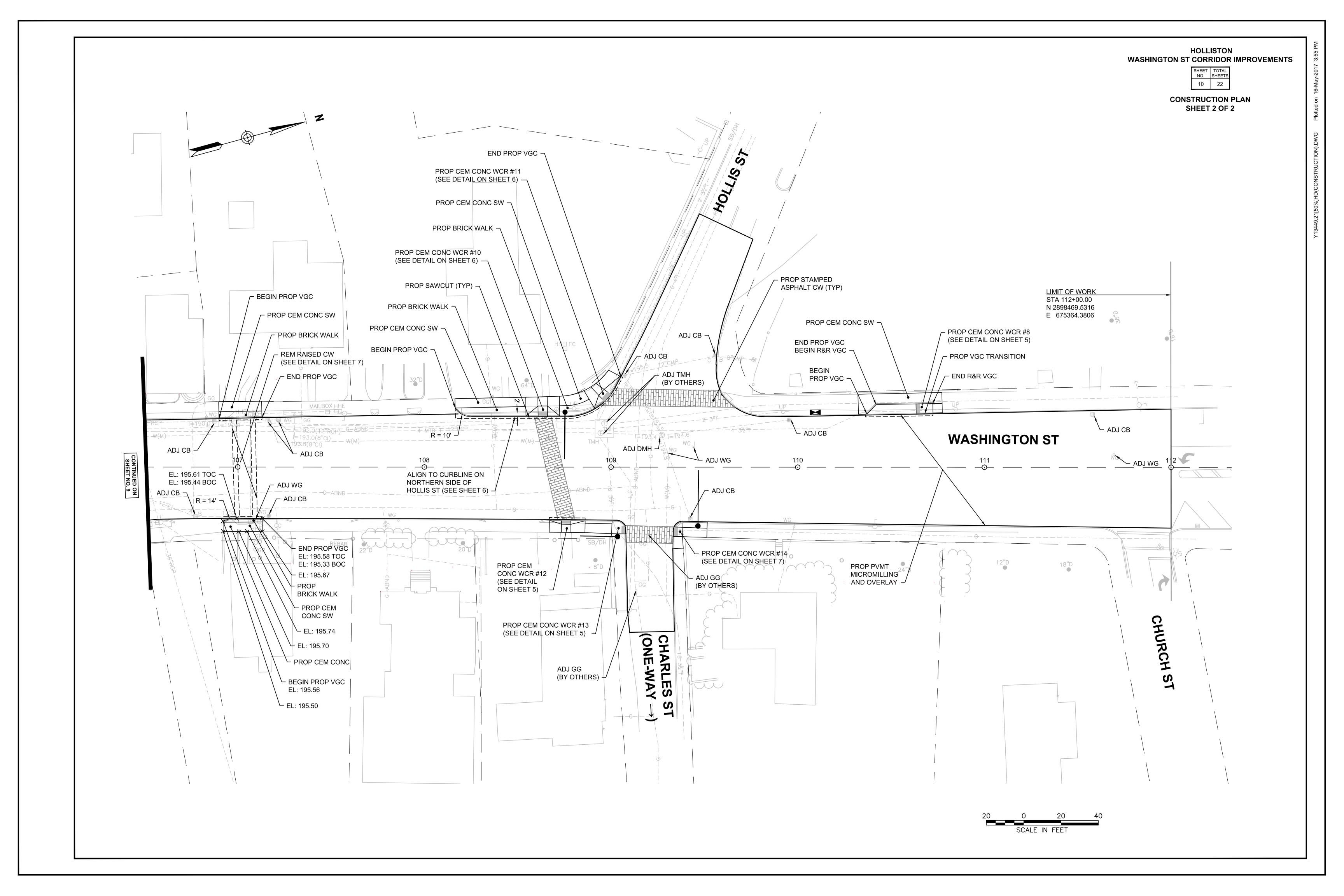
CONDUIT INSTALLATION NOT TO SCALE

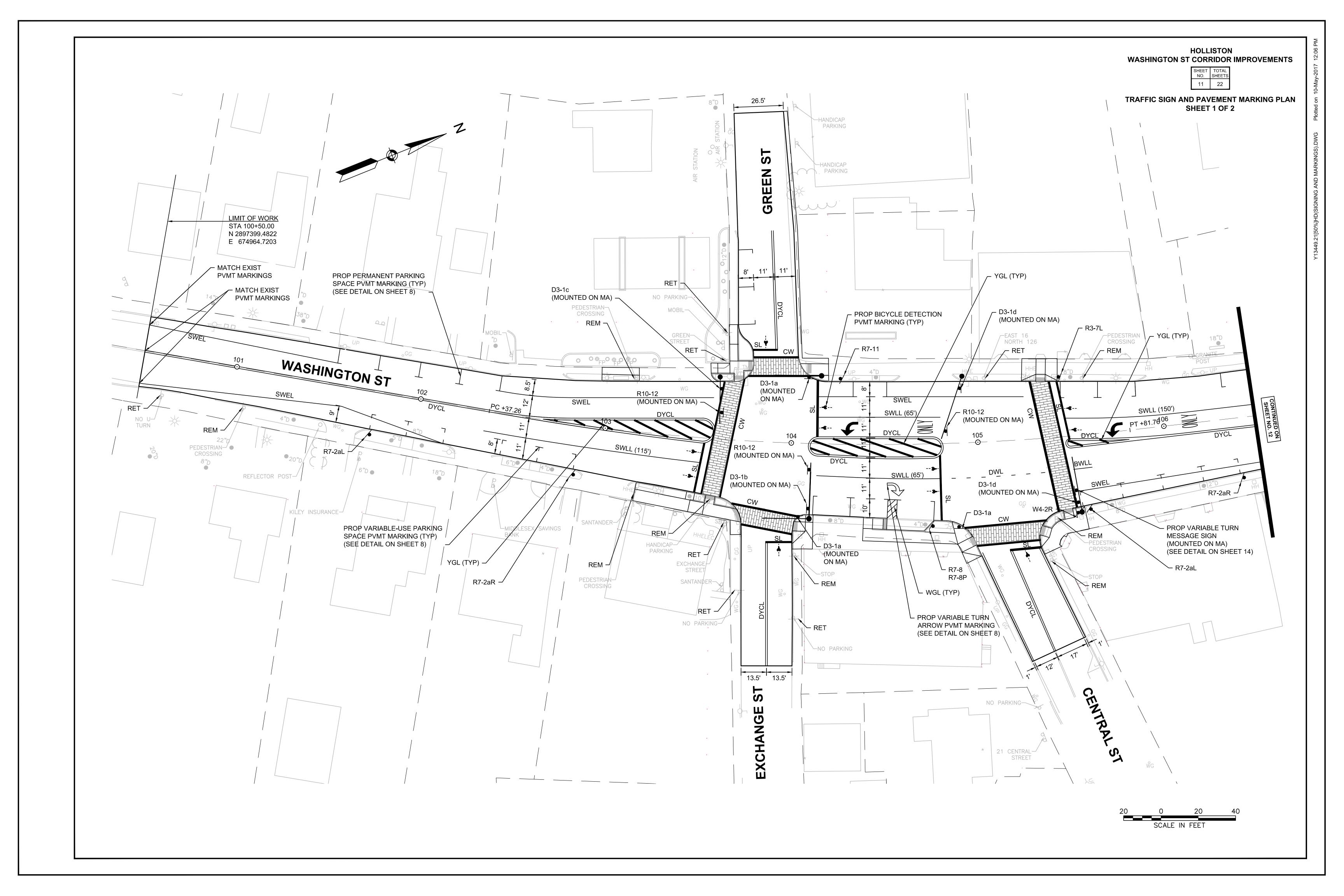


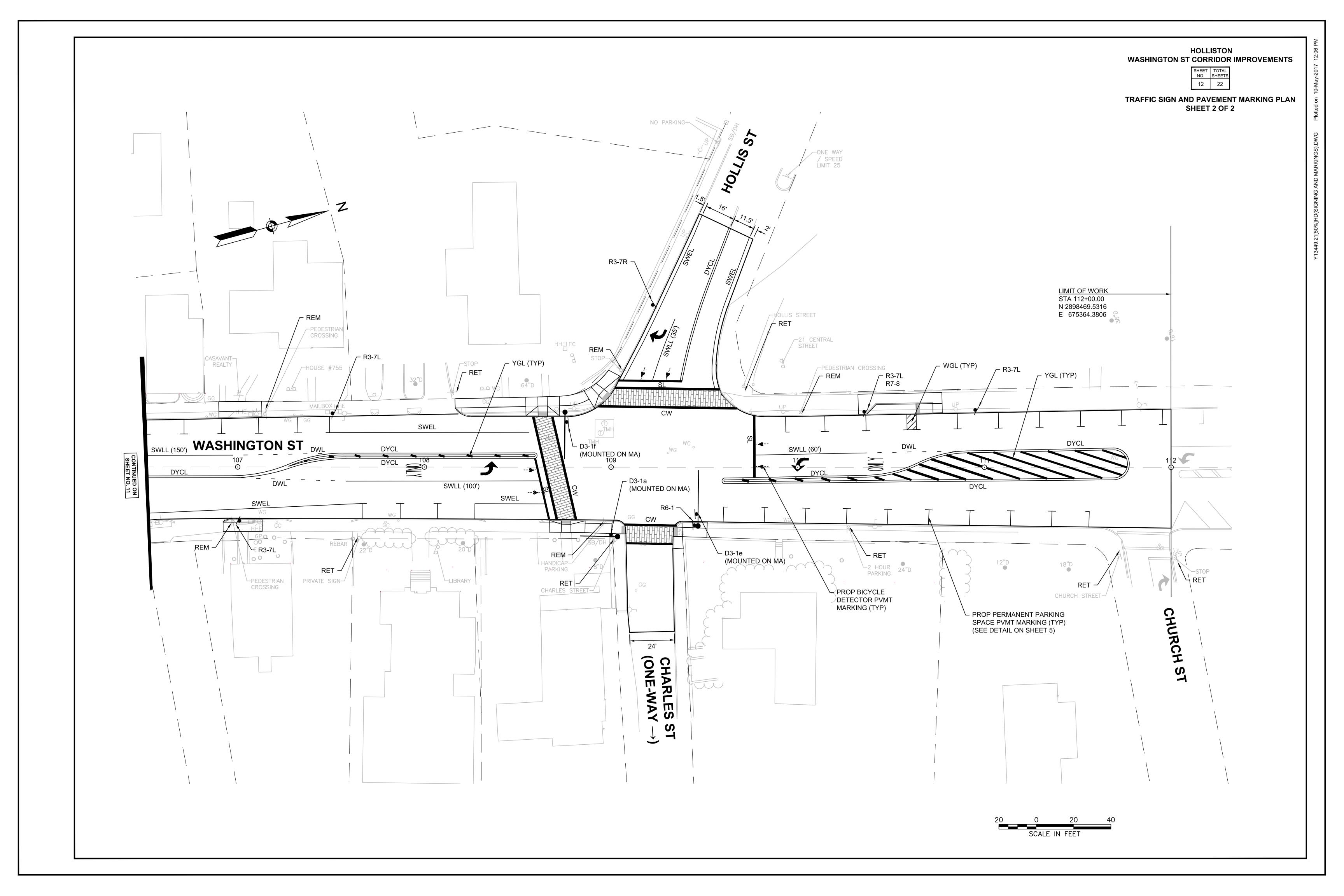
STAMPED ASPHALT CROSSWALK NOT TO SCALE

- 1. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE EXISTING CONDITIONS WITHIN THE PROJECT AREA AND IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES WHICH ARE FOUND.
- 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "DIG-SAFE" AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION WITHIN THE PROJECT AREA.
- 3. ALL SITE FEATURES WHICH ARE TO BE DISPOSED OF, INCLUDING EXISTING PAVEMENT, SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 4. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, EXISTING AND NEWLY CONSTRUCTED DRAINAGE SYSTEMS IN THE PROXIMITY OF THE CONSTRUCTION SHALL BE LEFT CLEAN AND IN GOOD
- OPERABLE CONDITION. 5. NO EXCAVATIONS SHALL BE LEFT UNPROTECTED AT THE END OF ANY WORK PERIOD. A STEEL PLATE OR DECKING SHALL BE TEMPORARILY PLACED OVER ALL EXCAVATIONS WHEN NOT ACTIVELY IN USE.
- 6. ALL EXISTING FEATURES WHICH ARE "TO REMAIN" AND WHICH ARE DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 8. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- 9. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- 10. THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SANITARY SEWER STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND ADJUST ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK CONFORMING TO M4.05.2.
- 11. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- 12. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
- 13. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
- 14. JOINTS BETWEEN NEW HOT MIX ASPHALT ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDED.
- 15. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS INDICATED OTHERWISE ON THE
- 16. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING ROADWAY LIGHTING WITHIN THE PROJECT LIMITS UNTIL OTHERWISE DIRECTED IN WRITING BY THE ENGINEER.
- 17. ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATION ARE NOT GUARANTEED.
- 18. ALL TREE PROTECTION IS TO BE LOCATED WITHIN THE EXISTING STATE AND/OR TOWN LAYOUTS.
- 19. ALL CURB RAMP CONSTRUCTION SHALL CONFORM TO MASSDOT ENGINEERING DIRECTIVE E-12-005. 20. DETECTABLE WARNING PANELS ARE REQUIRED ON ALL PROPOSED CURB RAMPS AND SHALL CONFORM TO THE
- DIMENSIONS SHOWN IN MASSDOT CONSTRUCTION STANDARD E 107.6.5R.
- 21. ALL PEDESTRIAN PATHS OF TRAVEL SHALL PROVIDE A 3' MINIMUM CLEARANCE AS REQUIRED BY ADA/AAB.
- 22. ALL SAWCUTTING FOR SIDEWALK RECONSTRUCTION SHALL BE PERFORMED AT THE EXISTING SIDEWALK PANEL
- JOINTS TO THE EXTENT POSSIBLE. 23. ALL OF THE REMOVED LIGHT POSTS AND MAST ARMS SHALL REMAIN PROPERTY OF THE TOWN OF HOLLISTON
- AND STACKED AT THE HOLLISTON HIGHWAY DEPARTMENT. (REFER TO SPECIAL PROVISIONS) 24. STAMPED ASPHALT WALK SURFACE SHALL CONFORM TO THE PATTERN, COLOR, AND CONSTRUCTION METHODS DETAILED IN THE SPECIAL PROVISIONS UNDER ITEM 701.3 STAMPED ASPHALT CROSSWALK.









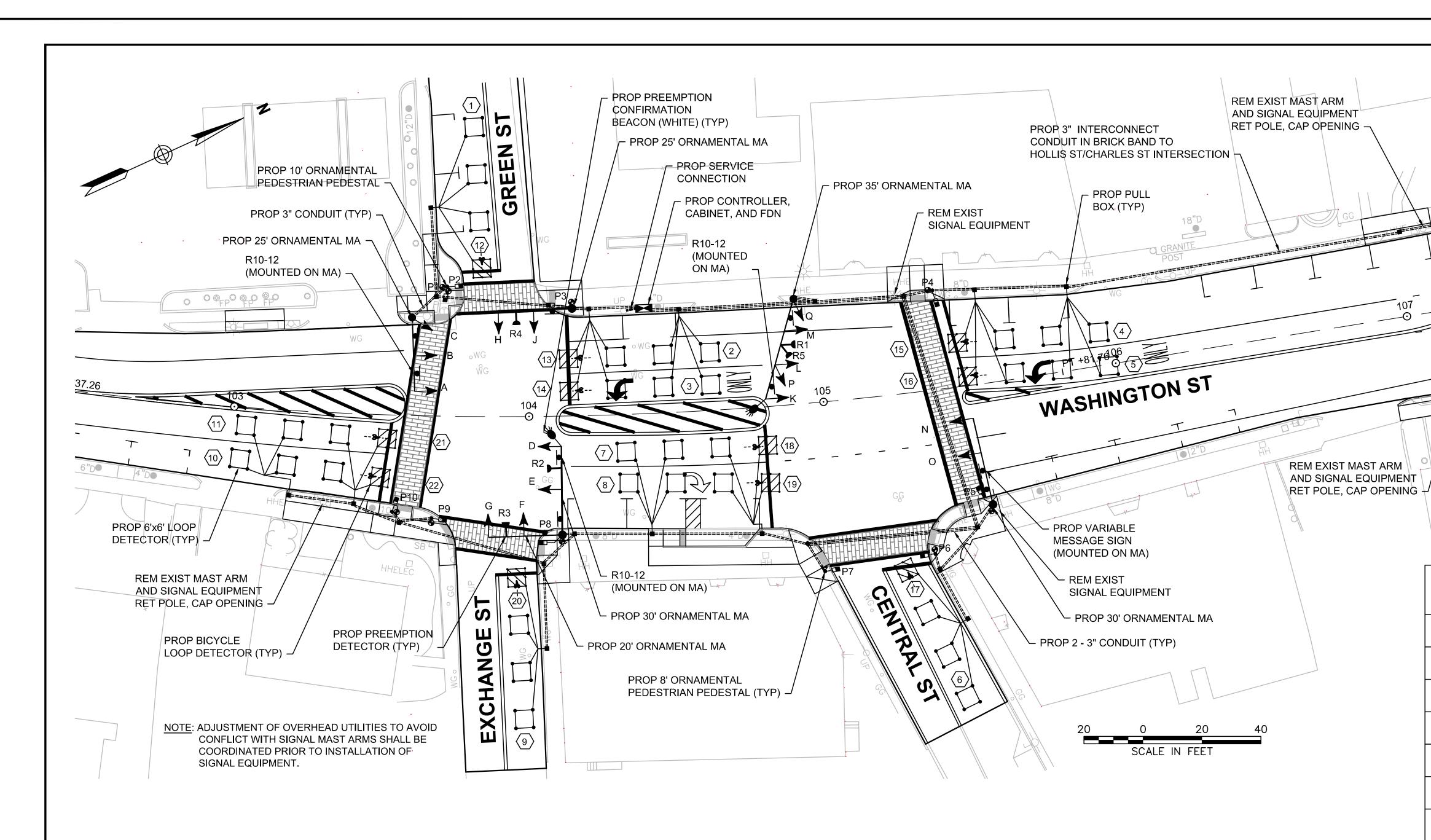
TOTAL SHEETS 13 22

TRAFFIC SIGN SUMMARY

TRAFFIC SIGN SUMMARY

IDENTIFICATION	SIZE C	OF SIGN		TEXT	DIMENSIONS	(INCHES)	NUMBER OF		COLOR		POST SIZE AND	UNIT	AREA IN
NUMBER	WIDTH	HEIGHT	TEXT	LETTER HEIGHT	VERTICAL SPACING	ARROW RTE MKR	SIGNS REQUIRED	BACK- GROUND	LEGEND	BORDER	NUMBER REQUIRED	AREA (SF)	SQUARE FEET
R3-7L	36"	36"	LEFT LANE MUST TURN LEFT	MUST SEE 2009 MUTCD 4 SEE 2009 MUTCD		D	P5 - 1 4 - REQ	9.00	36.00				
R3-7R	36"	36"	RIGHT LANE MUST TURN RIGHT				1				P5 - 1 1 - REQ	9.00	9.00
R6-1 (PBS)	36"	12"	ONE WAY				1				1-MOUNT ON MA POST	3.00	3.00
R7-2aL	12"	18"	NO PARKING 6 AM 9 AM				2				P5 - 1 2 - REQ	1.50	3.00
R7-2aR	12"	18"	NO PARKING 6 AM 9 AM			P5 - 1 2 - REQ	1.50	3.00					
R7-8	12"	18"	RESERVED PARKING				2				P5 - 1 2 - REQ	1.50	3.00
R7-8P	12"	6"	VAN ACCESSIBLE				1				1 - MOUNT W/ R7-8	0.50	0.50
R7-11	12"	18"	NO PARKING HERE TO CORNER				1				P5 - 1 1 - REQ	1.50	1.50
R10-12	30"	36"	LEFT TURN YIELD ON GREEN				3				3 - MOUNT ON MA	9.00	27.00
D3-1a (PBS)	TBD	18"	(Washington St	SEE H	HOLLISTON STA	ANDARDS	4	SEE HO	DLLISTON STAN	IDARDS	3 - MOUNT ON MA P5 - 1 1 - REQ	-	-
D3-1b (PBS)	TBD	18"	Exchange St				1				1-MOUNT ON MA	-	-
D3-1c (PBS)	TBD	18"	Green St				1				1-MOUNT ON MA	-	-
D3-1d (PBS)	TBD	18"	Central St				2				1-MOUNT ON MA	-	-
D3-1e (PBS)	TBD	18"	Charles St			1				1-MOUNT ON MA	-	-	
D3-1f (PBS)	TBD	18"	Hollis St		V		1		V		1-MOUNT ON MA	-	-

TOTAL: 86.00 SF



LOOP DETECTOR DATA

HOLLISTON WASHINGTON ST CORRIDOR IMPROVEMENTS

SHEET TOTAL NO. SHEETS

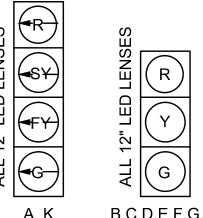
TRAFFIC SIGNAL PLAN

EXCHANGE ST/GREEN ST/CENTRAL ST

SHEET 1 OF 3

		<u> </u>	<u> </u>	12010					
DETECTOR NUMBER	AMPLIFIER NUMBER	CHANNEL NUMBER	LOOP SIZE	NUM OF TURNS	Ø CALLED	Ø EXT	MODE A=PULSE B=PRES	DELAY TIME	EXT TIME
1	1	1	3@6'X6"	3	4	4	В	5	0
(2)	1	2	3@6'X6"	3	6	6	В	0	0
3	2	1	3@6'X6"	3	1	6	В	0	0
4	2	2	3@6'X6"	3	6	6	В	0	0
(5)	3	1	3@6'X6"	3	1	6	В	0	0
6	3	2	3@6'X6"	3	8	8	В	5	0
7	4	1	3@6'X6"	3	2	4	В	0	0
(8)	4	2	3@6'X6"	3	2	4	В	0	0
9	5	1	3@6'X6"	3	4	4	В	5	0
(10)	5	2	3@6'X6"	3	2	2	В	0	0
(11)	6	1	3@6'X6"	3	2	2	В	0	0
(12)	6	2	1@6'X6"	D-2	4	4	BICYCLE	5	0
(13)	7	1	1@6'X6"	D-2	6	6	BICYCLE	0	0
(14)	7	2	1@6'X6"	D-2	1	1	BICYCLE	0	0
(15)	8	1	1@6'X6"	D-2	6	6	BICYCLE	0	0
(16)	8	2	1@6'X6"	D-2	1	1	BICYCLE	0	0
(17)	9	1	1@6'X6"	D-2	8	8	BICYCLE	5	0
(18)	9	2	1@6'X6"	D-2	2	2	BICYCLE	0	0
(19)	10	1	1@6'X6"	D-2	2	2	BICYCLE	0	0
(20)	10	2	1@6'X6"	D-2	4	4	BICYCLE	5	0
(21)	11	1	1@6'X6"	D-2	2	2	BICYCLE	0	0
(22)	11	2	1@6'X6"	D-2	2	2	BICYCLE	0	0

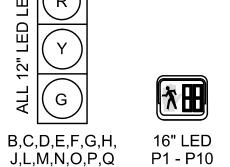
SIGNAL IDENTIFICATION



NOTES:
1. ALL SIGNALS SHALL HAVE CUT AWAY VISORS.

2. ALL SIGNALS SHALL HAVE 5" LOUVERED BACK

PLATES WITH 3" RETROREFLECTIVE BORDERS.





1. VARIABLE MESSAGE SIGN TO BE OVERHEAD MOUNTED ON MAST ARM. 2. DISPLAY A SHALL BE SHOWN ON WEEKDAYS FROM 6:00 AM - 9:00 AM.

DISPLAY B

3. DISPLAY B SHALL BE SHOWN AT ALL OTHER TIMES.

DISPLAY A

VARIABLE MESSAGE SIGN

PAY ITEM	QUANTITY	ITEM
	1	NEMA TS2 (TYPE 1) CONTROLLER, CABINET AND FDN
	1	SERVICE CONNECTION
	1	TWO-WAY, ORNAMENTAL MAST ARM ASSEMBLY W/ 20 FT AND 30 FT MAST ARMS, BASE AND FDN
	2	25 FT ORNAMENTAL MAST ARM ASSEMBLY, BASE AND FDN
	1	30 FT ORNAMENTAL MAST ARM ASSEMBLY, BASE AND FDN
	1	35 FT ORNAMENTAL MAST ARM ASSEMBLY, BASE AND FDN
	10	PEDESTRIAN SIGNAL HEAD, SINGLE SECTION W/ COUNTDOWN TIME
	5	8' ORNAMENTAL PEDESTRIAN PEDESTAL, BASE AND FDN
	1	10' ORNAMENTAL PEDESTRIAN PEDESTAL, BASE AND FDN
_	10	ACCESSIBLE PEDESTRIAN SIGNAL (APS) PUSH BUTTON ASSEMBLY
815.1	14	1 WAY, 3 SECTION, SIGNAL HOUSING (12" LED)
∞	2	1 WAY, 4 SECTION, SIGNAL HOUSING (12" LED)
	16	5" LOUVERED SIGNAL BACKPLATES W/ RETROREFLECTIVE BORDER:
	11	DUAL CHANNEL LOOP DETECTOR AMPLIFIER
	33	LOOP DETECTOR (6'x6')
	11	BICYCLE LOOP DETECTOR (6'x6')
	5	OPTICOM OPTICAL DETECTOR, UNIDIRECTIONAL, SINGLE CHANNEL
	4	OPTICOM PHASE SELECTOR MODULE-DUAL CHANNEL
	2	OPTICOM CARD RACK
	2	EMERGENCY PREEMPTION CONFIRMATION BEACON (WHITE)

MAJOR ITEMS REQUIRED

PLUS ALL NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION.

HOLLISTON
WASHINGTON ST CORRIDOR IMPROVEMENTS

SHEET TOTAL SHEETS

15 22

TRAFFIC SIGNAL PLAN
EXCHANGE ST/GREEN ST/CENTRAL ST
SHEET 2 OF 3

STREET	DIRECTION	HEAD	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	FLASH OP
WASHINGTON ST AT EXCHANGE ST	SB LEFT	А	← G−	⊸ SY—	← R —	← R−	← FY—	→ SY—	← R−	← G —	⊸ SY—	← R−	← R —	← R−	← R −	← FR—					
WASHINGTON ST AT CENTRAL ST	SB LEFT	K	← G−	⊸ SY—	← R —	← R−	← FY—	→ SY—	← R−	← R —	← R —	← R−	← R —	← R —	← R —	← FR—					
WASHINGTON ST AT EXCHANGE ST	SB	В,С	R	R	R	R	R	R	R	R	R	G	Υ	R	G	Υ	R	R	R	R	FY
WASHINGTON ST AT CENTRAL ST	SB	L,M	R	R	R	R	R	R	R	R	R	G	Υ	R	R	R	R	R	R	R	FY
WASHINGTON ST AT EXCHANGE ST	NB	D,E	R	R	R	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
WASHINGTON ST AT CENTRAL ST	NB	N,O	R	R	R	G	Υ	R	G	Υ	R	R	R	R	R	R	R	R	R	R	FY
GREEN ST	EB	F,G	R	R	R	R	R	R	G	Υ	R	R	R	R	R	R	R	R	R	R	FR
EXCHANGE ST	WB	H,J	R	R	R	R	R	R	G	Υ	R	R	R	R	R	R	R	R	R	R	FR
CENTRAL ST	WB	P,Q	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	R	R	R	FR
PEDESTRIAN	P1 - P10	ALL	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
	-	•	•	•	•	•	•	TIIT	ЛING IN SE	CONDS	•	•	•	•	•	•	•	•	•	•	•
MINIMUM GREEN (INITIAL)			7			10			7			10			7						
PASSAGE TIME (VEHICLE)			2			4			4			4			4						7
MAXIMUM 1			10			25			10			35			10						7
MAXIMUM 2			9			36			10			47			12]
YELLOW CLEARANCE				3			3			3			3			3					ENC -
RED CLEARANCE					1			1			1			1			1				

NONE

SOFT

NONE

MEMORY			NON-LOCK	NON-LOCK	NON-LOCK	NON-LOCK	NON-LOCK	LOCK
COOF	RDINATION DATA			Co	OORDINATION PHASE TIMING (SE	C)		
TIMING PLAN	CYCLE LENGTH	REF/OFFSET	Ø 1	Ø 2	Ø 4	Ø 6	Ø 8	Ø 9
TP1 (M-F 6 AM - 9 AM)	100	0	11	40	11	51	12	26
TP2 (M-F 4 PM - 6 PM)	100	88	11	33	14	44	16	26
TP3 (ALL OTHER TIMES)	FREE	-						

SOFT

NONE

WALK (W)

RECALL

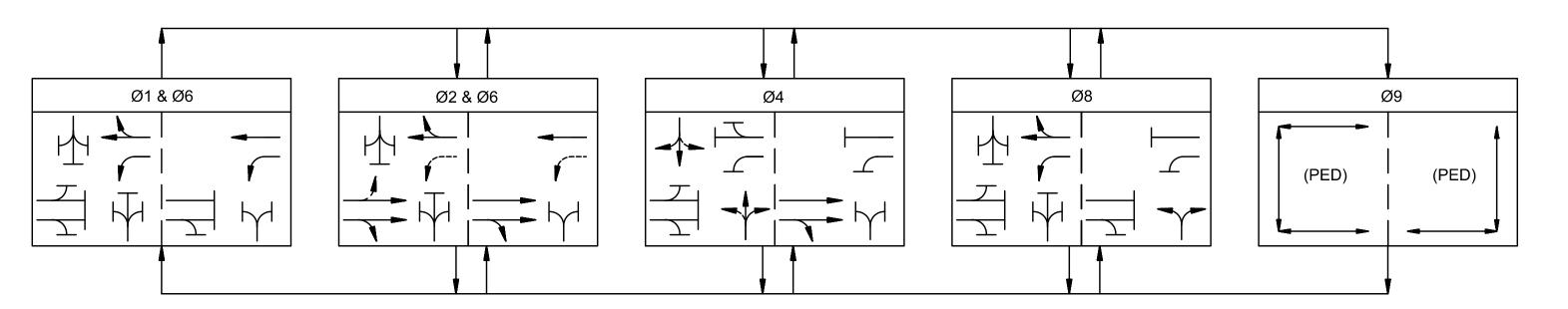
PEDESTRIAN CLEARANCE

COORDINATION NOTES:

- OFFSET TO BEGINNING OF FIRST COORDINATED PHASE TO THE BEGINNING OF GREEN.
- 2. PHASE 2 TO BE COORDINATED PHASE.
- 3. ALL COORDINATION PHASE TIMES INCLUDE YELLOW AND RED CLEARANCE TIME.
- 4. COORDINATED PHASE DETECTORS SHALL BE DISABLED DURING COORDINATION.
- 5. COORDINATION MODE SHALL BE PERMISSIVE. FLOATING
- FORCE OFFS SHALL BE IN EFFECT DURING COORDINATION.

 6. OFFSET SEEKING SHALL BE THE SHORTWAY METHOD.
- 7. MAXIMUM GREEN #1 FOR FREE OPERATION. MAXIMUM GREEN #2 IN EFFECT DURING COORDINATION.

PREFERENTIAL PHASING SEQUENCE



EMERGENCY PREEMPTION SCHEDULE

APPROACH	PREEMPTION PHASE	NEXT PHASE CALLED
NORTHBOUND	Ø 2	Ø 4
SOUTHBOUND	Ø1&Ø6	Ø 2 & Ø 6
EASTBOUND	Ø 4	Ø 8
WESTBOUND	Ø 8	Ø1&Ø6

EMERGENCY PREEMPTION OPERATION:

18

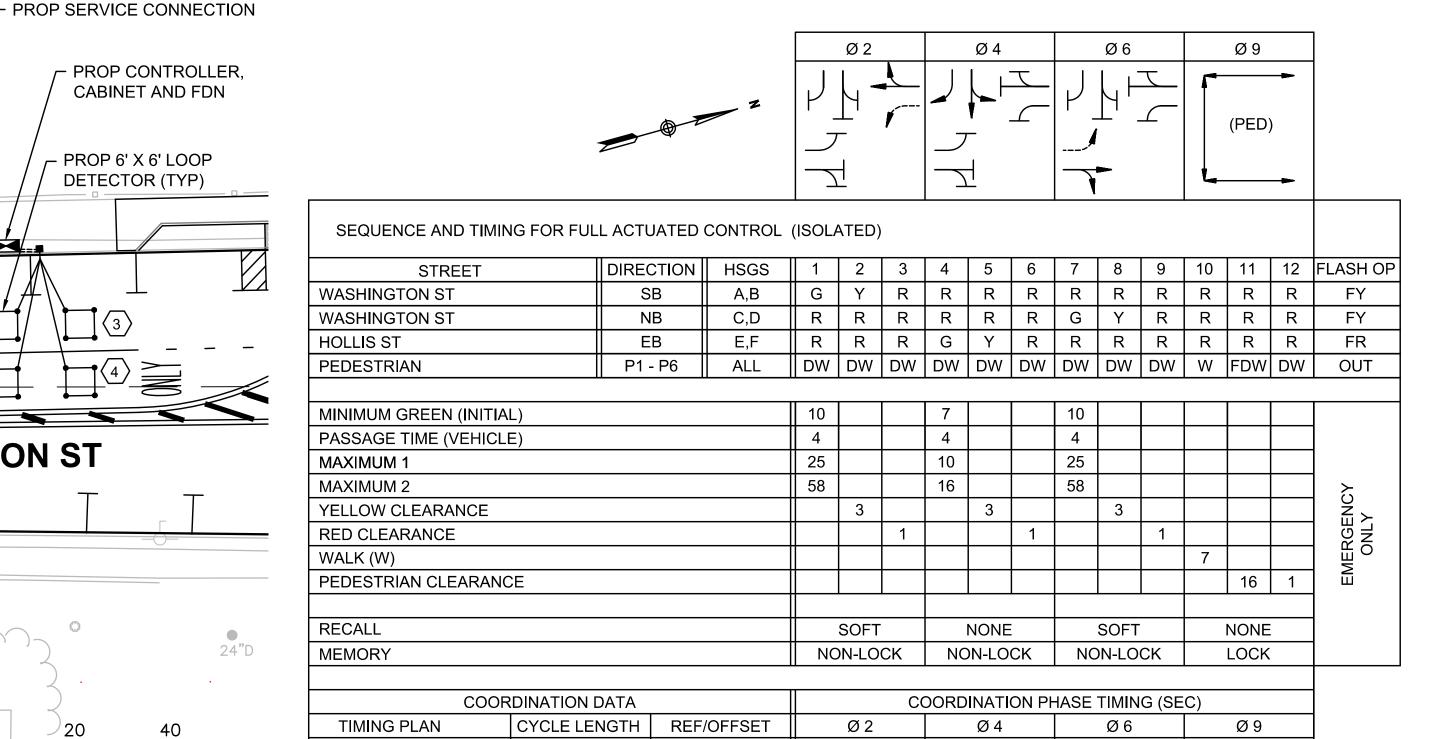
NONE

- 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 6 SECONDS.
- 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.

SHEET TOTAL NO. SHEETS

TRAFFIC SIGNAL PLAN **CHARLES ST/HOLLIS ST** SHEET 3 OF 3

NEXT PHASE



62

14

62

24

LOOP DETECTOR DATA

0

100

FREE

TP1 (M-F 6 AM - 9 AM)

TP2 (M-F 4 PM - 6 PM)

TP3 (ALL OTHER TIMES)

DETECTOR NUMBER	AMPLIFIER NUMBER	CHANNEL NUMBER	LOOP SIZE	NUM OF TURNS	Ø CALLED	Ø EXT	MODE A=PULSE B=PRES	DELAY TIME	EXT TIME
1	1	1	3@6'X6"	3	6	6	В	0	0
2	1	2	3@6'X6"	3	6	6	В	0	0
3	2	1	3@6'X6"	3	2	2	В	0	0
4	2	2	3@6'X6"	3	2	2	В	0	0
(5)	3	1	3@6'X6"	3	4	4	В	0	5
6	3	2	3@6'X6"	3	4	4	В	0	0
7	4	1	1@6'X6"	D-2	6	6	BICYCLE	0	0
8	4	2	1@6'X6"	D-2	6	6	BICYCLE	0	0
9	5	1	1@6'X6"	D-2	2	2	BICYCLE	0	0
(10)	5	2	1@6'X6"	D-2	2	2	BICYCLE	0	0
(11)	6	1	1@6'X6"	D-2	4	4	BICYCLE	0	5
(12)	6	2	1@6'X6"	D-2	4	4	BICYCLE	0	0

PHASE CALLED NORTHBOUND Ø 6 Ø2&Ø6

EMERGENCY PREEMPTION SCHEDULE

PREEMPTION

SOUTHBOUND Ø 2 Ø 2 & Ø 6 EASTBOUND Ø 4 Ø2&Ø6

EMERGENCY PREEMPTION OPERATION:

APPROACH

- 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 THE 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 FROM 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.
- PREEMPTION MINIMUM GREENS SHALL BE 6 SECONDS.
- 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.

COORDINATION NOTES:

- 1. OFFSET TO BEGINNING OF FIRST COORDINATED PHASE TO
- THE BEGINNING OF GREEN.
- 2. PHASES 2 AND 6 TO BE COORDINATED PHASES.
- 3. ALL COORDINATION PHASE TIMES INCLUDE YELLOW AND RED CLEARANCE TIME.
- 4. COORDINATED PHASE DETECTORS SHALL BE DISABLED DURING COORDINATION.
- 5. COORDINATION MODE SHALL BE PERMISSIVE. FLOATING
- FORCE OFFS SHALL BE IN EFFECT DURING COORDINATION. 6. OFFSET SEEKING SHALL BE THE SHORTWAY METHOD.
- 7. MAXIMUM GREEN #1 FOR FREE OPERATION. MAXIMUM GREEN #2 IN EFFECT DURING COORDINATION.

PREFERENTIAL PI	HA:	SING SEQUE	NCE

PROP PREEMPTION

PROP 20' ORNAMENTAL MA

DETECTOR (TYP)

PROP 2 - 3" CONDUIT (TYP)

PROP PREEMPTION

R2 -

CONFIRMATION

BEACON (WHITE)

O

PROP 3" CONDUIT (TYP)

PROP 3" INTERCONNECT CONDUIT

IN BRICK BAND TO EXCHANGE ST/

PROP 25' ORNAMENTAL MA

PROP 8 ORNAMENTAL

M

PROP BICYCLE

SIGNAL EQUIPMENT.

LOOP DETECTOR (TYP) -

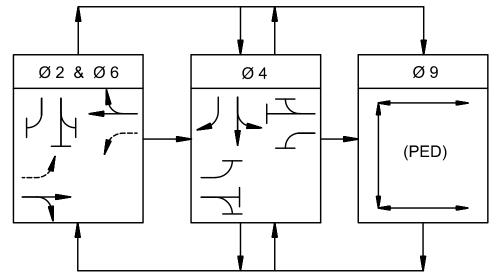
NOTE: ADJUSTMENT OF OVERHEAD UTILITIES TO AVOID

COORDINATED PRIOR TO INSTALLATION OF

CONFLICT WITH SIGNAL MAST ARMS SHALL BE

PEDESTRIAN PEDESTAL (TYP)

GREEN ST/CENTRAL ST INTERSECTION



SIGNAL IDENTIFICATION





P1 - P6

- PROP PULL BOX (TYP)

WASHINGTON ST

SCALE IN FEET

- PROP 30' ORNAMENTAL MA

PROP CONTROLLER,

CABINET AND FDN

- PROP 6' X 6' LOOP

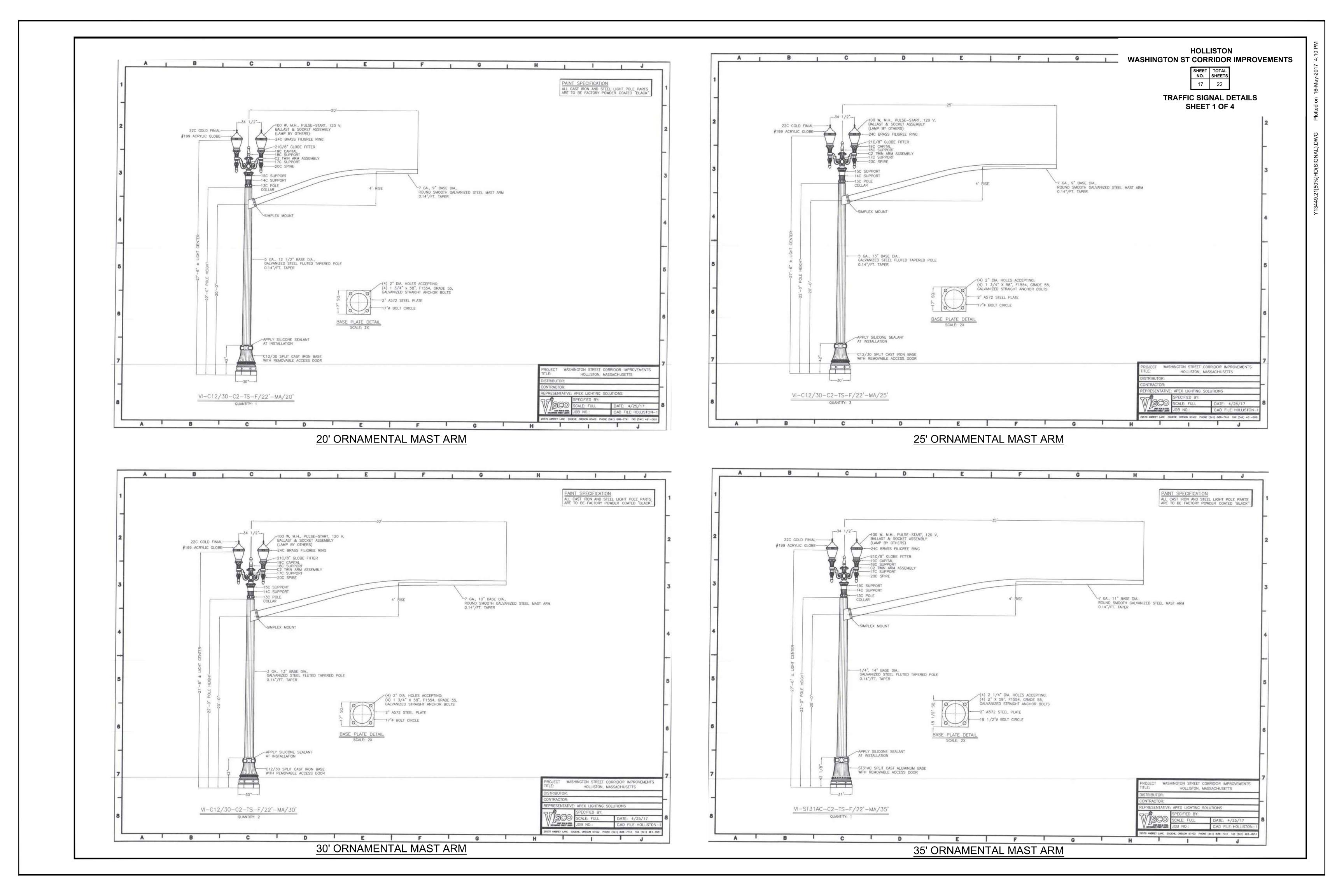
DETECTOR (TYP)

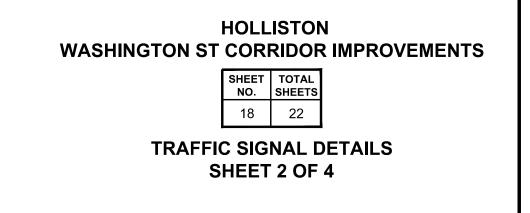
- 1. ALL SIGNALS SHALL HAVE CUT AWAY VISORS.
- 2. ALL SIGNALS SHALL HAVE 5" LOUVERED BACK PLATES WITH 3" RETROREFLECTIVE BORDERS.

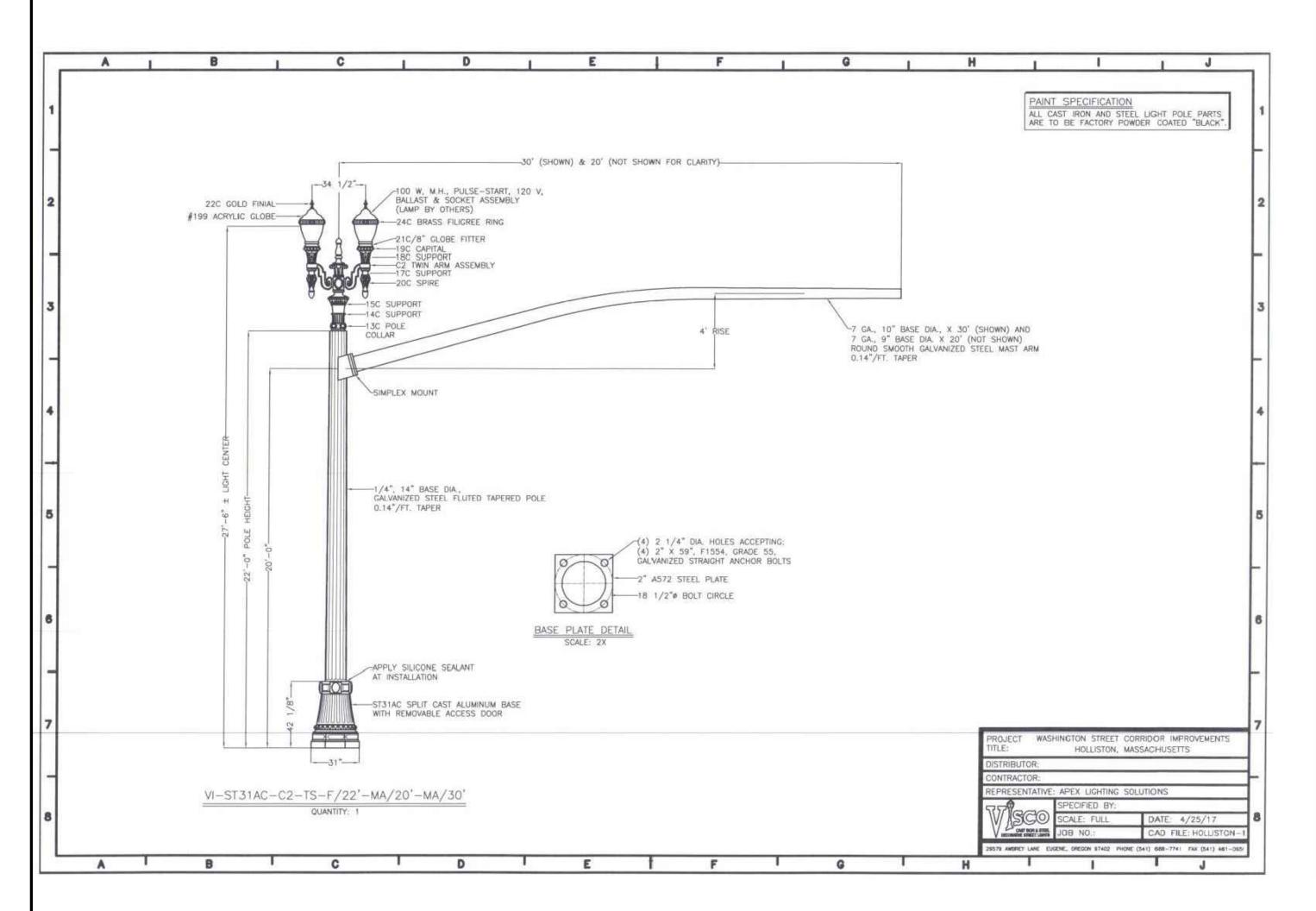
DETECTOR NUMBER	AMPLIFIER NUMBER	CHANNEL NUMBER	LOOP SIZE	NUM OF TURNS	Ø CALLED	Ø EXT	MODE A=PULSE B=PRES	DELAY TIME	EXT TIME
1	1	1	3@6'X6"	3	6	6	В	0	0
2	1	2	3@6'X6"	3	6	6	В	0	0
3	2	1	3@6'X6"	3	2	2	В	0	0
4	2	2	3@6'X6"	3	2	2	В	0	0
(5)	3	1	3@6'X6"	3	4	4	В	0	5
6	3	2	3@6'X6"	3	4	4	В	0	0
7	4	1	1@6'X6"	D-2	6	6	BICYCLE	0	0
8	4	2	1@6'X6"	D-2	6	6	BICYCLE	0	0
9	5	1	1@6'X6"	D-2	2	2	BICYCLE	0	0
(10)	5	2	1@6'X6"	D-2	2	2	BICYCLE	0	0
(11)	6	1	1@6'X6"	D-2	4	4	BICYCLE	0	5
(12)	6	2	1@6'X6"	D-2	4	4	BICYCLE	0	0

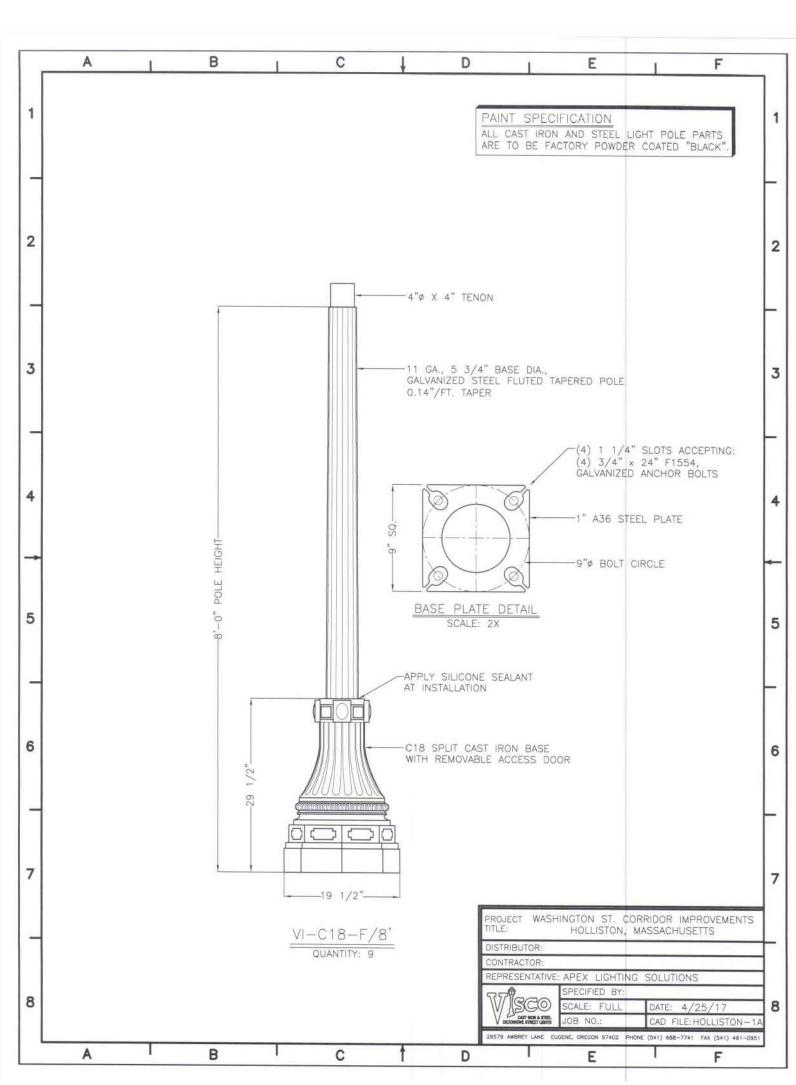
	•	
		MAJOR ITEMS REQUIRED
PAY ITEM	QUANTITY	ITEM
	1	NEMA TS2 (TYPE 1) CONTROLLER, CABINET AND FDN
	1	SERVICE CONNECTION
	1	20 FT ORNAMENTAL MAST ARM ASSEMBLY, BASE AND FDN
	1	25 FT ORNAMENTAL MAST ARM ASSEMBLY, BASE AND FDN
	1	30 FT ORNAMENTAL MAST ARM ASSEMBLY, BASE AND FDN
	6	PEDESTRIAN SIGNAL HEAD, SINGLE SECTION W/ COUNTDOWN TIMER
	4	8' ORNAMENTAL PEDESTRIAN PEDESTAL, BASE AND FDN
2	6	ACCESSIBLE PEDESTRIAN SIGNAL (APS) PUSH BUTTON ASSEMBLY
815.2	6	1 WAY, 3 SECTION, SIGNAL HOUSING (12" LED)
8	6	5" LOUVERED SIGNAL BACKPLATES W/ RETROREFLECTIVE BORDERS
	18	LOOP DETECTOR (6'X6')
	6	BICYCLE LOOP DETECTOR (6'X6')
	6	DUAL CHANNEL LOOP DETECTOR AMPLIFIER
	3	OPTICOM OPTICAL DETECTOR, UNIDIRECTIONAL, SINGLE CHANNEL
	2	OPTICOM PHASE SELECTOR MODULE-DUAL CHANNEL
	1	OPTICOM CARD RACK
	1	EMERGENCY PREEMPTION CONFIRMATION BEACON (WHITE)

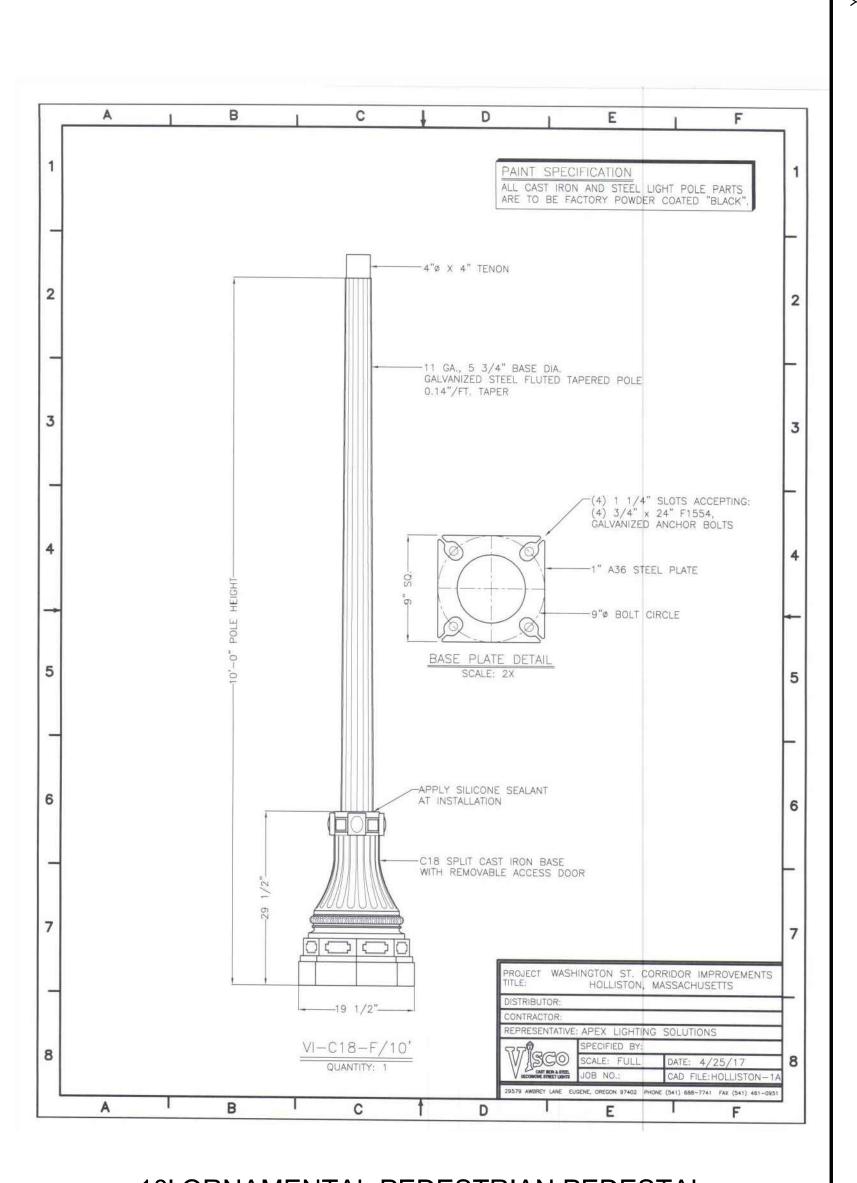
PLUS ALL NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION.







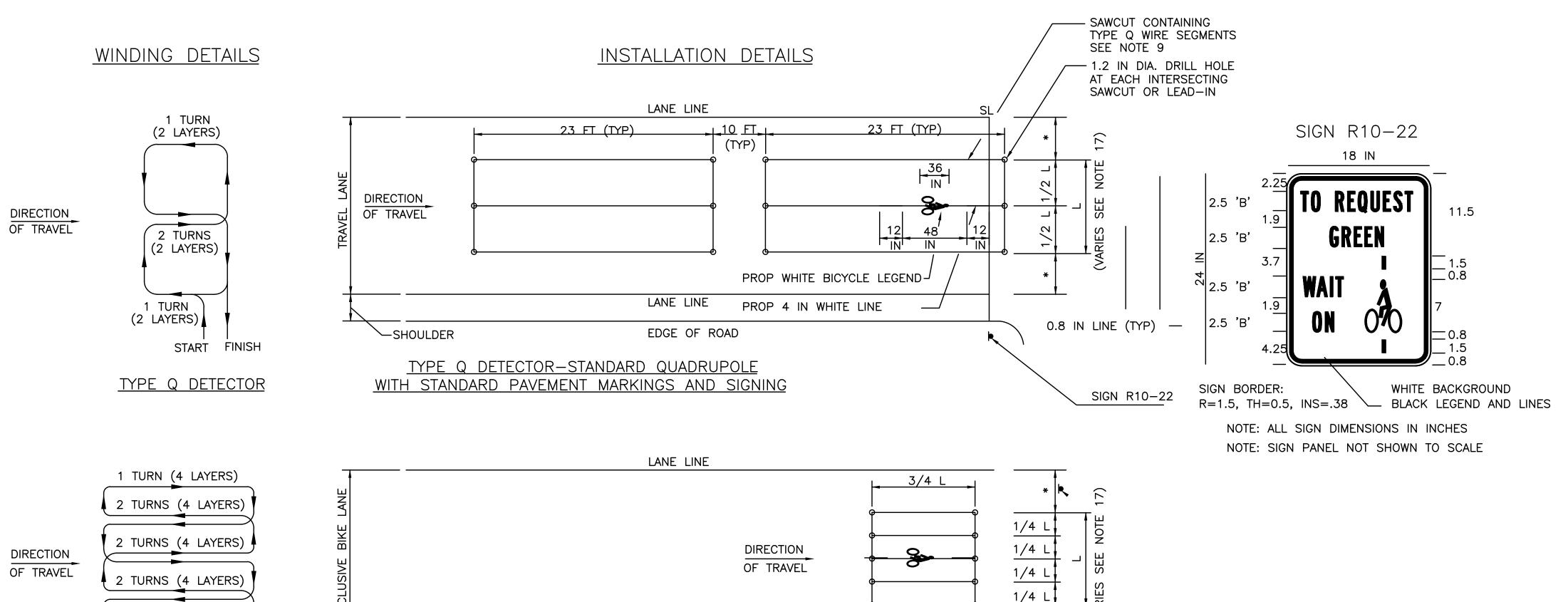


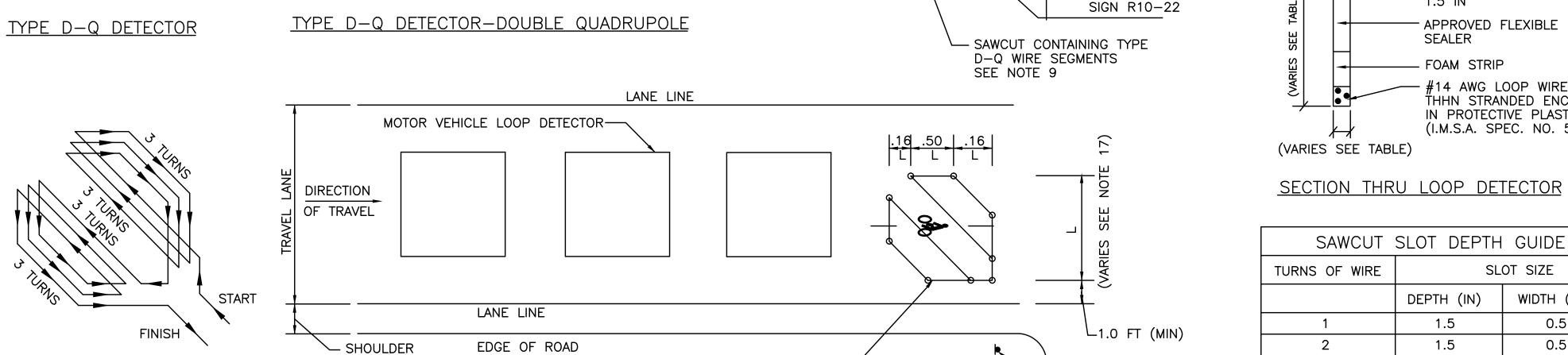


20' & 30' ORNAMENTAL MAST ARM

8' ORNAMENTAL PEDESTRIAN PEDESTAL

10' ORNAMENTAL PEDESTRIAN PEDESTAL





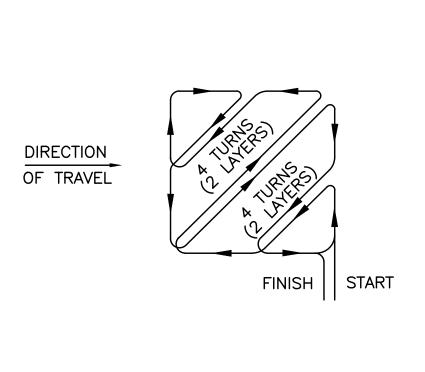
EDGE OF ROAD

TYPE D-1 DETECTOR

START

FINISH

FINISH



OF TRAVEL

1 TURN (4 LAYERS)

TYPE D-2 DETECTOR

RIGHT JUSTIFIED (SEE NOTE 12) TYPE D-1 WIRE SEGMENT\$ TYPE D-1 AND D-2 DETECTORS SAWCUT CONTAINING TYPE (TYPE D1 SHOWN) D-2 WIRE SEGMENTS LANE LINE ∠ 1.0 FT (MIN) MOTOR VEHICLE LOOP DETECTOR-VÅRIES SEE NOTÉ 17) DIRECTION OF TRAVEL . LANE LINE EDGE OF ROAD - SHOULDER PROPOSED AREA OF DETECTION LEFT JUSTIFIED (SEE NOTE 13) A LARGER AREA OF DETECTION MAY BE REQUIRED — TYPE D-1 AND D-2 DETECTORS BASED ON FIELD CONDITIONS AND SHALL BE SIGN R10-22 DETERMINED BY THE DESIGNER. (TYPE D2 SHOWN)

TOP OF PROPOSED

- SURFACE COURSE

- APPROVED FLEXIBLE

#14 AWG LOOP WIRES

THHN STRANDED ENCASED

(I.M.S.A. SPEC. NO. 51-5)

SLOT SIZE

WIDTH (IN)

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

IN PROTECTIVE PLASTIC TUBING

PAVEMENT

1.5 IN

SEALER

DEPTH (IN)

1.5

1.5

1.5

2.0

2.0

2.0

2.0

2.0

3

— FOAM STRIP

-SEE NOTE 7 (TYP)

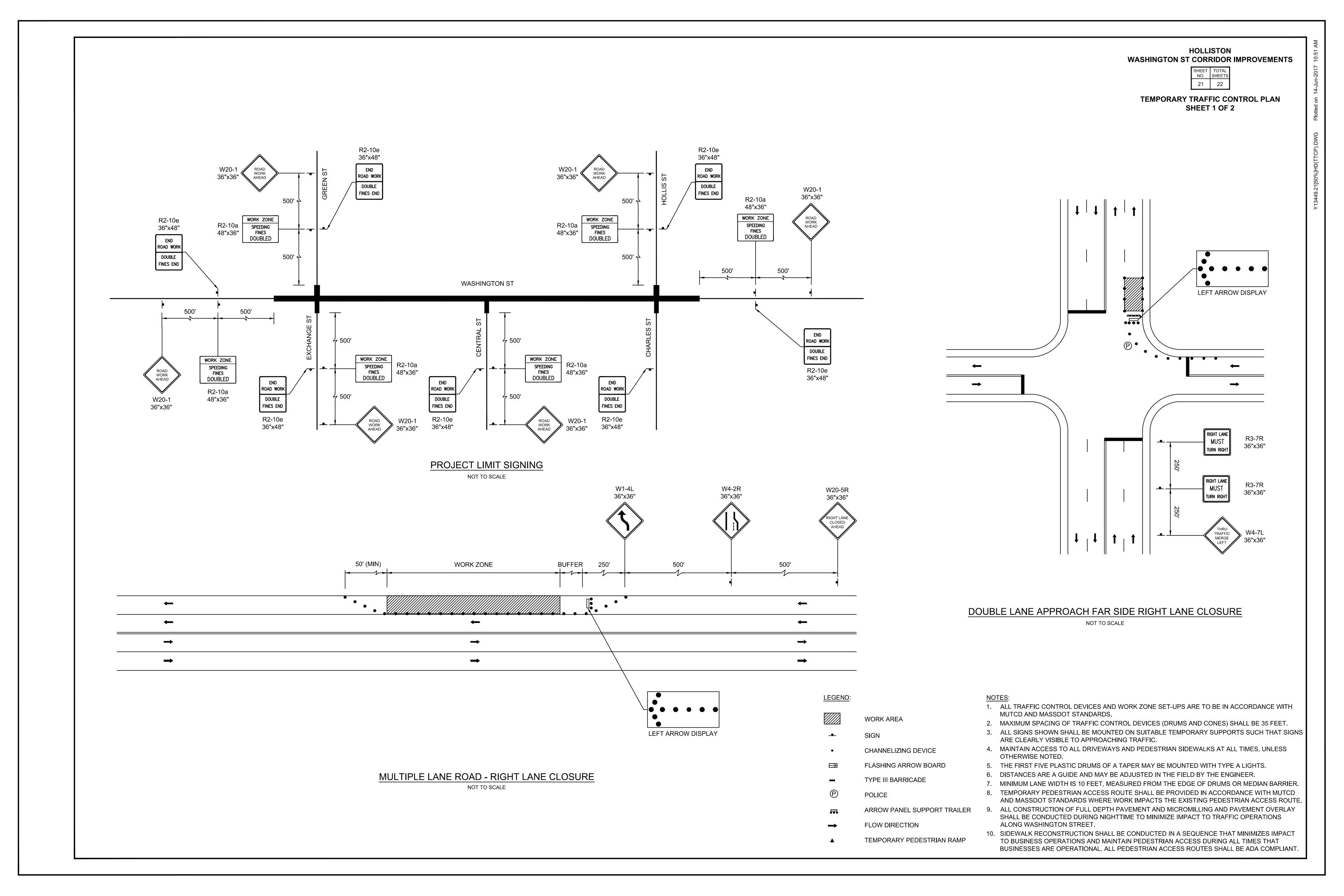
SIGN R10-22

∠ SAWCUT CONTAINING

- 2. ALL DETAILS ARE GRAPHICAL WITH NO SCALE.

- 10. PROVIDE 3 TURNS FOR TYPE D-1 DETECTORS.
- 11. INSTALL 2 LAYERS OF WIRE WOUND IN THE SAME
- 12. RIGHT JUSTIFIED LOOP DETECTORS SHALL BE

- 17. THE MINIMUM DIMENSION FOR L SHALL BE 6 FT

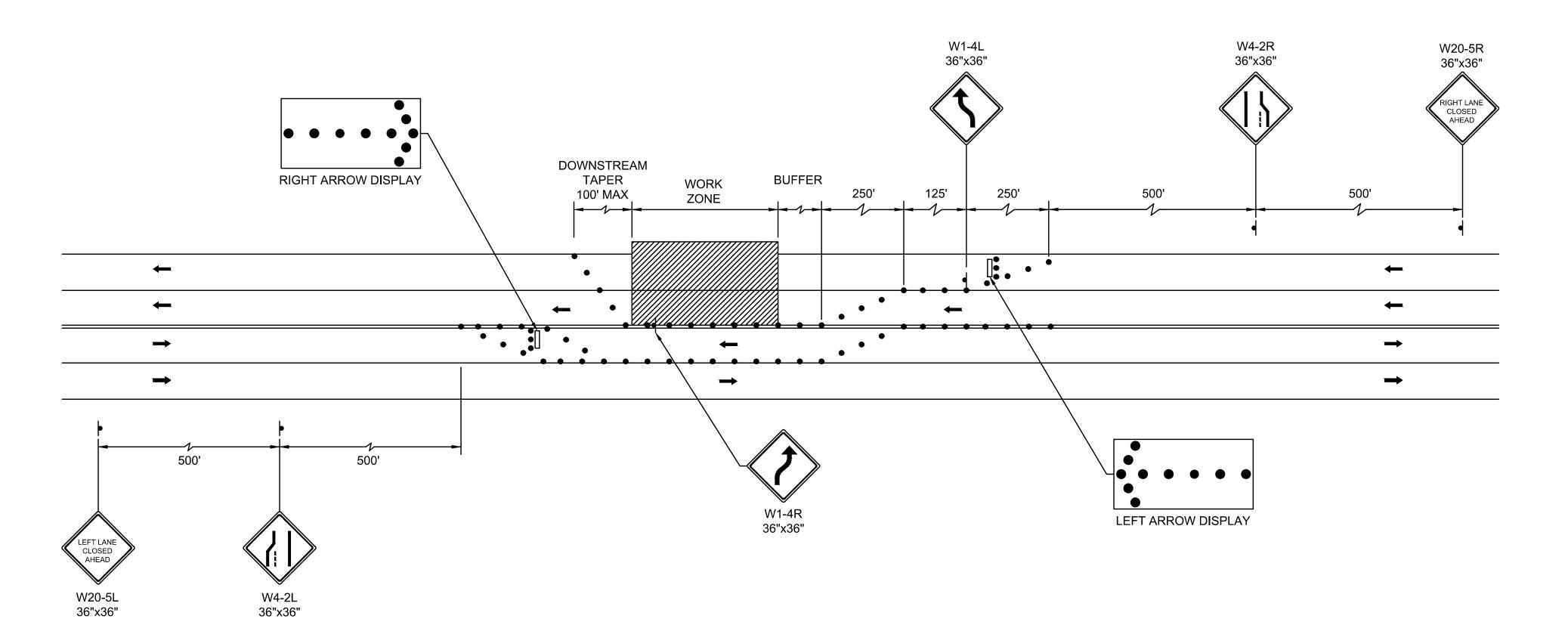




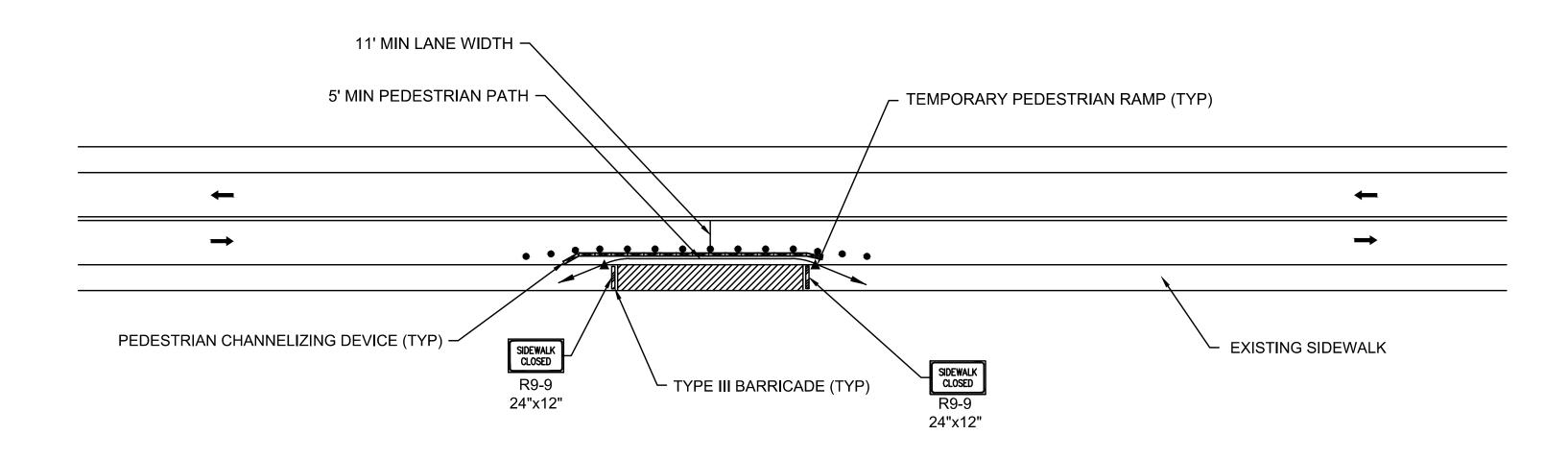
SHEET TOTAL SHEETS

22 22

TEMPORARY TRAFFIC CONTROL PLAN
SHEET 2 OF 2

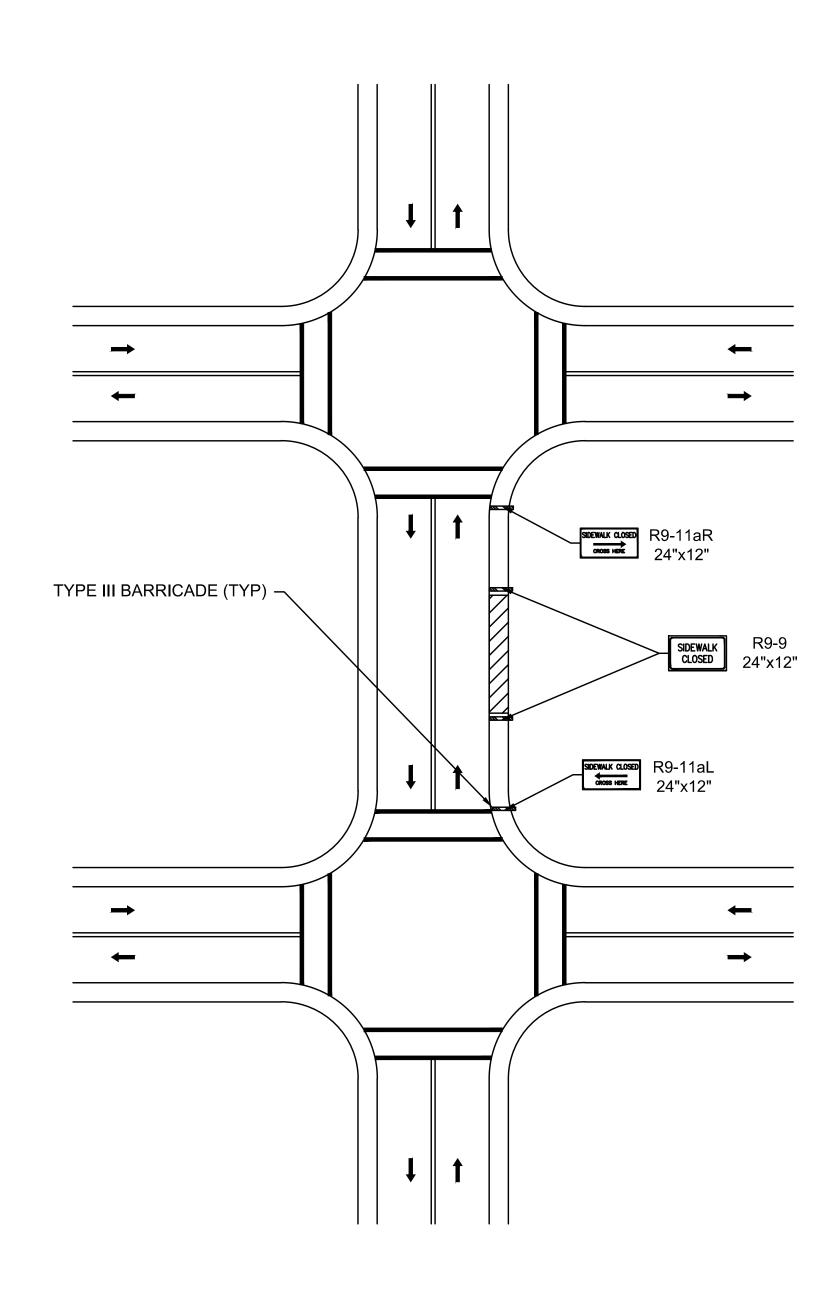


MULTIPLE LANE ROAD - 1/2 ROAD CLOSURE NOT TO SCALE



PEDESTRIAN DETOUR - TYPE I

NOT TO SCALE



PEDESTRIAN DETOUR - TYPE II

NOT TO SCALE

<u>NOTE</u>

<u>LEGEND</u>:

WORK AREA

CHANNELIZING DEVICE

TYPE III BARRICADE

FLOW DIRECTION

POLICE

FLASHING ARROW BOARD

ARROW PANEL SUPPORT TRAILER

TEMPORARY PEDESTRIAN RAMP

- 1. ALL TRAFFIC CONTROL DEVICES AND WORK ZONE SET-UPS ARE TO BE IN ACCORDANCE WITH MUTCD AND MASSDOT STANDARDS.
- 2. MAXIMUM SPACING OF TRAFFIC CONTROL DEVICES (DRUMS AND CONES) SHALL BE 35 FEET.
- 3. ALL SIGNS SHOWN SHALL BE MOUNTED ON SUITABLE TEMPORARY SUPPORTS SUCH THAT SIGNS ARE CLEARLY VISIBLE TO APPROACHING TRAFFIC.
- 4. MAINTAIN ACCESS TO ALL DRIVEWAYS AND PEDESTRIAN SIDEWALKS AT ALL TIMES, UNLESS OTHERWISE NOTED.
- 5. THE FIRST FIVE PLASTIC DRUMS OF A TAPER MAY BE MOUNTED WITH TYPE A LIGHTS.
- 6. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- 7. MINIMUM LANE WIDTH IS 10 FEET, MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- 8. TEMPORARY PEDESTRIAN ACCESS ROUTE SHALL BE PROVIDED IN ACCORDANCE WITH MUTCD AND MASSDOT STANDARDS WHERE WORK IMPACTS THE EXISTING PEDESTRIAN ACCESS ROUTE.
- 9. ALL CONSTRUCTION OF FULL DEPTH PAVEMENT AND MICROMILLING AND PAVEMENT OVERLAY SHALL BE CONDUCTED DURING NIGHTTIME TO MINIMIZE IMPACT TO TRAFFIC OPERATIONS ALONG WASHINGTON STREET.
- 10. SIDEWALK RECONSTRUCTION SHALL BE CONDUCTED IN A SEQUENCE THAT MINIMIZES IMPACT TO BUSINESS OPERATIONS AND MAINTAIN PEDESTRIAN ACCESS DURING ALL TIMES THAT BUSINESSES ARE OPERATIONAL. ALL PEDESTRIAN ACCESS ROUTES SHALL BE ADA COMPLIANT.