COMPLETE STREETS IMPROVEMENT PROJECT

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PLAN OF

DOWNEY STREET SIDEWALK

IN THE TOWN OF

WESTWOOD NORFOLK COUNTY

BID #DPW-23-B-025

FINAL SUBMITTAL



1000 2000 4000 3000 SCALE: 1" = 500'

LENGTH OF PROJECT = 2,075.00 FEET = 0.393 MILES

WESTWOOD DOWNEY STREET SIDEWALK TITLE SHEET & INDEX SHEET 1 OF 22

THESE PLANS ARE SUPPLEMENTED BY THE 2023 MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRA THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING. AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

03/24/23	FINAL SUBMITTAL (2)	3
12/12/22	FINAL SUBMITTAL	2
08/18/22	PRELIMINARY DESIGN	1
DATE	DESCRIPTION	REV #



2nd Floor Lawrence, MA 01843Worcester, MA 01608Hampton, NH 03842978-794-1792508-868-5104603-601-8154

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5/24/2023

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GENERAL SYMBOL	S	
EXISTING	PROPOSED	DESCRIPTION
JB	JB	
		CATCH BASIN OR GUTTER INLET CATCH BASIN OR GUTTER INLET WITH CURB INLET
		DROP INLET
© FP G GP	ଡ FP © GP	GAS PUMP
□ MB		MAIL BOX
		POST SQUARE POST CIRCULAR
⊕ WELL	⊕ WELL	WELL
□ EHH	□ EHH	ELECTRIC HANDHOLE FENCE GATE POST
o GG	o GG	GAS GATE
● BHL #	BHL #	BORING HOLE
• TP #		TEST PIT
↔ 	Ф	HYDRANT LIGHT POLE
⊂ CO.BD.	ጥ	COUNTY BOUND
	0	GPS POINT
	©	DRAINAGE MANHOLE
E	E	ELECTRIC MANHOLE
	(c) (M)	MISC MANHOLE
S	S	SEWER MANHOLE
() ()	() ()	WATER MANHOLE
MHB	■ MHB	MASSACHUSETTS HIGHWAY BOUND
- SB		STONE BOUND
■ TB		TOWN OR CITY BOUND
⊸ TPL or GUY	-> TPL or GUY	TROLLEY POLE OR GUY POLE
• HTP		TRANSMISSION POLE
-¢- UPDL	-& UFB -∲- UPDL	UTILITY POLE W/ FIREBOX UTILITY POLE WITH DOUBLE LIGHT
δ ULT	-6- ULT	UTILITY POLE W / 1 LIGHT
UPL	-⊶ UPL	BUSH
•SIZE & TYPE		TREE
		STUMP SWAMP / MARSH
• WG	• WG	WATER GATE
• PM	• PM	PARKING METER OVERHEAD CABLE/WIRE
-100 -99 -99		CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
000000000000000000000000000000000000000	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	BALANCED STONE WALL
		GUARD RAIL - STEEL PUSTS GUARD RAIL - WOOD POSTS
x	x	CHAIN LINK OR METAL FENCE
		SEDIMENT CONTROL BARRIER
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		200 FT RIVERFRONT BUFFER
·		COUNTY LAYOUT
· · · ·		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMB	BOLS		ABBREVIATIO	DNS		WEATWOOD
EXISTING	PROPOSED	DESCRIPTION	GENERAL		-	WESTWOOD DOWNEY STREET SIDEWALK
		CONTROLLER CABINET FOUNDATION	AADT	ANNUAL AVERAGE DAILY TRAFFIC		LEGEND & ABBREVIATIONS
			ABAN	ABANDON		SHEET 2 OF 22
		CONTROLLER CABINET, FOUNDATION, CONC. PAD				
Υ.Υ.		MAST ARM FOUNDATION (SCALE OF BLOCK = DIAMETER IN INCHES)	ALC.	ASPHALT CONCRETE		
		MAST ARM (LENGTH NOTED)	ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE		
	•	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT	BIT.	BITUMINOUS		
>	+>	VEHICULAR SIGNAL HEAD	BC	BOTTOM OF CURB		
			BD. BI	BASELINE		
		PEDESTRIAN SIGNAL HEAD	BLDG	BUILDING	ABBREVIAI	IONS (cont.)
-	-	MAST ARM OR TS POLE MOUNTED SIGN	BM	BENCHMARK	<u>GENERAL</u>	:
	-	EMERGENCY PRE-EMPTION RECEIVER	BO	BY OTHERS	PVC	POINT OF VERTICAL CURVATURE
-¢-	*	EMERGENCY PRE-EMPTION CONFIRMATION STROBE	BOS	BOTTOM OF SLOPE BRIDGE	PVI PVT	POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY
•	Θ	PEDESTRIAN PUSH BUTTON	CB	CATCH BASIN	PVMT	PAVEMENT
		YAGI ANTENNA	CBCI	CATCH BASIN WITH CURB INLET	R	RADIUS OF CURVATURE
		BICYCLE WIRE LOOP DETECTOR (SIZE AS NOTED)	CC	CEMENT CONCRETE	R&D	REMOVE AND DISPOSE
			CEM	CEMENT CONCRETE MASONRY	RD	ROAD
			CI	CURB INLET	RDWY	ROADWAY
0		TRAFFIC SIGN (TPOST)	CIP	CAST IRON PIPE	REM	REMOVE
$\overline{\bigcirc \bigcirc}$	\bullet \bullet	TRAFFIC SIGN (2 POST)	CLF	CHAIN LINK FENCE		
	•	PULL BOX 12"x12" (OR AS NOTED)	CMP	CORRUGATED METAL PIPE	ROW	RIGHT OF WAY
	-	ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)	CSP	CORRUGATED STEEL PIPE	RR	RAILROAD
		TRAFFIC SIGNAL CONDUIT	CO.	COUNTY	R&R	REMOVE AND RESET
			CONC	CONCRETE	R&S	REMOVE AND STACK
			CONI	CONTINUOUS	SB	SERVICE BOX
			CR GR	CROWN GRADE	SGE	SLANTED GRANITE EDGING
			DH	DRILL HOLE	SHLD	SHOULDER
			DHV	DESIGN HOURLY VOLUME	SMH	SEWER MANHOLE
			DI		STA	STATION
			DIA	DIAMETER DUCTILE IRON PIPE	SSD	STOPPING SIGHT DISTANCE
			DSCB	DEEP SUMP CATCH BASIN	SHLO	STATE HIGHWAY LAYOUT LINE
			DW	STEADY DON'T WALK - PORTLAND ORANGE	SWAC	SIDEWALK
			DWY	DRIVEWAY	SWAG T	TANGENT DISTANCE OF CURVE/TRUCK %
			ELEV (OF EL.) FMB	ELEVATION	TAN	TANGENT
			EOP	EDGE OF PAVEMENT	TEMP	TEMPORARY
			EQ	EQUAL	TC	TOP OF CURB
			EXIST (or EX)	EXISTING	TYP	TYPICAI
			EXC F&C	EXCAVATION FRAME AND COVER	UP	UTILITY POLE
			F&G	FRAME AND GRATE	VAR	VARIES
			FDN.	FOUNDATION	VERT	
			FLDSTN	FIELDSTONE	WCR	WHEEL CHAIR RAMP
			GAR	GROUND	WG	WATER GATE
			GG	GAS GATE	WIP	
			GI	GUTTER INLET	VVIVI X-SECT	CROSS SECTION
			GIP	GALVANIZED IRON PIPE	X OLOT	
			GRAN	GRAVEI		
			GRD	GUARD	TRAFFIC SI	GNAL
			HDW	HEADWALL		
			HMA	HOT MIX ASPHALT	CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
			HYD	HYDRANT	DW	STEADY DON'T WALK
			INV	INVERT	FDW	FLASHING DON'T WALK
			JCT	JUNCTION	FK FRI	FLASHING CIRCULAR RED FLASHING RED LEFT ARROW
			L	LENGTH OF CURVE	FRR	FLASHING RED RIGHT ARROW
			Las	LEACH BASIN	FY	FLASHING CIRCULAR YELLOW
			LOG	LIMIT OF GRADING	FYL	FLASHING YELLOW LEFT ARROW
			LP	LIGHT POLE	FYR G	FLASHING YELLOW RIGHT ARROW
			LT		GL	STEADY GREEN LEFT ARROW
			MB	MAILBOX	GR	STEADY GREEN RIGHT ARROW
			MH	MANHOLE	GSL	STEADY GREEN SLASH LEFT ARROW
			MHB	MASSACHUSETTS HIGHWAY BOUND	GV GV	STEADT GREEN SLASH RIGHT ARROW
			MIN		OL	OVERLAP
				NUT IN CONTRACT	PED	PEDESTRIAN
			PC	POINT OF CURVATURE	PTZ	PAN, TILE, ZOOM
			PCC	POINT OF COMPOUND CURVATURE	к RL	STEADT CIRCULAR RED STEADY RED I FFT ARROW
			P.G.L.	PROFILE GRADE LINE	RR	STEADY RED RIGHT ARROW
			POC	POINT OF INTERSECTION POINT ON CURVE	TR SIG	TRAFFIC SIGNAL
			POT	POINT ON TANGENT	TSC	TRAFFIC SIGNAL CONDUIT
			PRC	POINT OF REVERSE CURVATURE	vv Y	STEADT WALK STEADY CIRCULAR YELLOW
			PROJ	PROJECT	YL	STEADY YELLOW LEFT ARROW
			PROP	LKOLO2ED		

PLANTABLE SOIL BORROW

PSB

PT

POINT OF TANGENCY

1.	EXISTING CONDITIONS INFORMATION COMPILED FROM SURVEY BY HANCOCK ASSOCIATES, BOSTON, MA PERFORMED IN JULY 2022.
	THE VERTICAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). SAID DATUM WAS ESTABLISHED VIA GPS OBSERVATIONS UTILIZING REALIZATION NAD83(2011) AND GEOID 12A.
2.	ALL EXISTING STATE, COUNTY, AND TOWN LOCATION LINES HAVE BEEN ESTABLISHED FROM AN ACTUAL ON-THE-GROUND SURVEY. ALL PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATION ARE NOT GUARANTEED.
3.	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 CONTACT DIGSAFE (1-888-DIGSAFE) A MINIMUM OF 72 HOURS PRIOR TO ANY CONSTRUCTION TO VERIFY THE 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 LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
4.	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.
5.	ALL PRIVATELY OWNED UTILITY STRUCTURES (GAS GATES, ELECTRIC /TELEPHONE MANHOLES, ETC.) SHALL BE ADJUSTED TO FINISHED GRADE BY THE PRIVATE UTILITY COMPANY, UNLESS DIRECTED OTHERWISE. THE CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE ALTERATION AND ADJUSTMENT, AS NECESSARY.
6.	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 CONTRACTORS EXPENSE.
7.	ALL DISTURBED AREAS OUTSIDE THE CURBLINE SHALL BE STABILIZED WITH 4" LOAM AND SEED, UNLESS OTHERWISE NOTED.
8.	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), AS APPROVED BY THE ENGINEER.
9.	THE TERM "MEET EXIST" MEANS TO MEET BOTH THE EXISTING ALIGNMENT AND ELEVATION.

- AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" (EXCLUDING THE WIDTH OF CURB) SHALL BE MAINTAINED PAST ALL VERTICAL OBSTRUCTIONS (UTILITY POLES, LIGHT POLES, SIGNS, MAILBOXES, ETC.)
- DETECTABLE WARNING PANELS ARE REQUIRED ON ALL PROPOSED PEDESTRIAN CURB RAMPS AND SHALL BE INSTALLED IN ACCORDANCE WITH MASSDOT CONSTRUCTION STANDARDS. DETECTABLE WARNING PANELS COLOR SHALL BE APPROVED BY THE WESTWOOD DPW.
- ALL EXISTING GRANITE CURB THAT MEETS SPECIFICATIONS SHALL BE RE-USED WITHIN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN THAT PROPOSED.
- IN INSTANCES WHERE AN EXISTING MANHOLE, HANDHOLE, OR OTHER "SURFACE" TYPE STRUCTURE THAT CANNOT BE REMOVED OR RESET IS WITHIN THE PROPOSED OR EXISTING (IF RECIPROCAL OR WITHIN PROJECT LIMITS) ACCESSIBLE SURFACE, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OR THE STRUCTURE COVER SHALL BE FLUSH WITH THE CURB RAMP SURFACE.
- THE CONTRACTOR SHALL NOTE THE EXISTING CONDITION OF ADJACENT PRIVATELY-OWNED FEATURES PRIOR TO THE START OF CONSTRUCTION. PRE-CONSTRUCTION PHOTOS AND VIDEOS SHALL BE REQUIRED AND SUBMITTED TO THE TOWN PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO THE EXISTING PRIVATELY-OWNED FEATURES BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS INDICATED OTHERWISE ON THE DRAWINGS. ALL SIGNS THAT ARE TO BE REMOVED AND RESET SHALL BE RESET WITH A NEW P5 POST.
- RETAIN ALL PAVEMENT MARKINGS EXCEPT THOSE IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS, WHICH SHALL BE REMOVED BY APPROVED METHODS.
- ALL PROPOSED PAVEMENT MARKINGS WITHIN THE LIMITS OF WORK SHALL BE EPOXY.
- A MINIMUM SIDEWALK 3'-0" PATH OF TRAVEL CLEARANCE, EXCLUDING CURB, IS REQUIRED WHEN PLACING SIGNS.
- THE MINIMUM MOUNTING HEIGHT OF POST MOUNTED SIGNS, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE CURB OR SIDEWALK SHALL BE 7 FEET.
- IN AREAS OF EXISTING ROADWAY / SIDEWALK WHERE LOAM AND SEED IS PROPOSED, THE CONTRACTOR SHALL REMOVE EXISTING ROADWAY / SIDEWALK AND SUBBASE, AND REPLACE WITH SUITABLE EXCAVATED MATERIAL AND PROPOSED 4" LOAM AND SEED TO MEET FINAL GRADE.
- UPL 80-10 MAY REQUIRE TEMPORARY SUPPORT WHILE ADJACENT DRAINAGE PIPE IS BEING INSTALLED. CONTRACTOR SHALL COORDINATE WITH EVERSOURCE AS REQUIRED.
- CONTRACTOR SHALL GRADE A SWALE FOR DRAINING THE OUTLET WHERE NECESSARY TO MEET PROPOSED OUTLET ELEVATION.

WESTWOOD DOWNEY STREET SIDEWALK CONSTRUCTION NOTES SHEET 3 OF 22

1954 TOWN LAYOUT (NO 4220) 50' WIDE -	
CONST B	
	PROP 4" LOAM & SEED; - 3:1 (TYP)
	2:1 (MAX)
_EXIST GROUNDR PV	
TYPICAL SECT CANTON STRE	
STA 106+11±10 STA NTS *TOLERANCE FOR CONSTR	
1954 TOWN LAYOUT (NO	
EXIST GROUND RET	
PVMT TYPICAL SECT	
DOWNEY STRE STA 21+51± TO STA NTS	
*TOLERANCE FOR CONSTR	
LIMIT OF ROW (PLAN 205/225) 50' WIDI	
	Ι
EXIST GROUND	
TYPICAL SECT <u>DOWNEY STRE</u> STA 13+34+ TO STA	
NTS *TOLERANCE FOR CONSTR	
LIMIT OF ROW (PLAN 205/225)	-
CONST B	
EXIST GROUND	
DOWNEY STRE STA 11+98± TO STA STA 13+89+ TO STA	
NTS	



WESTWOOD DOWNEY STREET SIDEWALK **TYPICAL SECTIONS & PAVEMENT NOTES** SHEET 4 OF 22

SURFACE: 1¹/₂" SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5) OVER 2¹/₂" SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5) OVER PROPOSED CEMENT CONCRETE PEDESTRIAN CURB RAMP / SIDEWALK / WALK SURFACE: 4" CEMENT CONCRETE (4000 PSI, ³/₄", 610) PROPOSED CEMENT CONCRETE SIDEWALK AT DRIVEWAY SURFACE: 6" CEMENT CONCRETE (4000 PSI, $\frac{3}{4}$ ", 610)

SURFACE: 12" PROCESSED GRAVEL

PROPOSED GRAVEL DRIVEWAY

BASE: 8" GRAVEL BORROW, TYPE b

BASE: 8" GRAVEL BORROW, TYPE b

PROPOSED HOT MIX ASPHALT DRIVEWAY

8" GRAVEL BORROW, TYPE b

GENERAL PAVEMENT NOTES

PAVEMENT NOTES

BASE:

- 1. ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED BETWEEN ALL ASPHALT SURFACES AND SAWCUT JOINTS BEFORE PAVING. HMA JOINT ADHESIVE SHALL BE APPLIED TO ALL COLD JOINTS (LONGITUDINAL AND TRANSVERSE) BEFORE PAVING SURFACE COURSE. ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED AT A RATE CONSISTENT WITH STANDARD SPECIFICATION 450.43.G.2. ALL SURFACES SHALL BE CLEAN OF ALL ORGANICS, DEBRIS, AND SAND PRIOR TO PAVING.
- 2. ASPHALT EMULSION FOR TACK COAT SHALL BE RS-1H TO RESIST TRACKING OF TACK HAUL VEHICLES.
- 3. HMA FOR WALKS AND DRIVEWAYS SHALL BE IN ACCORDANCE WITH SECTION 700.
- 4. ALL GRAVEL BORROW MEETING SPECIFICATION SHALL BE RETAINED IN PLACE, COMPACTED, AND LEVELED AS REQUIRED.



NA	IAGE STRUCTURE DATA									
′ .	INV. ELEV. IN	INV. ELEV. OUT	REMARKS							
	-	142.65								
	142.47	142.37	W/ 4' SUMP MH COVER							
	141.35	141.25								
	141.02	-	SEE NOTE 23							

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA
L1	10+00.00	2904512.7804	744458.1347	
C1	10+74.50	2904559.7091	744515.9980	R=1000.00 [°] Δ=9°0 L=158.01' T=79.1
L2	12+32.51	2904649.1489	744646.0536	
C2	14+23.28	2904744.5065	744811.2847	R=480.08 [°] Δ=42°2 L=354.94' T=186.0

- RET UPL; PARCEL ID: 24–231 NORFOLK GOLF COURSE deed book 1257, page 159 PROVIDE 3' MIN SW CLEARANCE; (SEE CONSTRUCTION NOTE 22) LIMIT OF PROPOSED RIGHT WAY SHOWN ON PLAN 391-250 LIMIT UF PRUPUSED RIGHT SHOWN ON PLAN 391-250 12" ALGONQUIN GAS PIPELINF (SHOWN AS APPROXIMATE ON PLAN 391 RIM=145.39_ (INACC.) l=121.8(R) -142 GAS LINE -CONST R DOWNEY STREET LIMIT OF ROW (PLAN 205 PROP SAWCUT (TYP) 12" S - REM TREE ACC **ARET UP**; PROVIDE 3' MIN . DRIVEWAY SW CLEARANCE (EXCLUDING CURB) PROP 6.0' GRAVFI CEM CONC SW mantatation CB CEN PROP HMA (FOUND C DWY (TYP) RET TREE; — - REM SHRUBS PROP TREE 12-1 MEET EXIST -PROTECTION HMA DWY PROP 4" PINE (SAWCUT) RET BOULDER – BARK MULCH al PROP 37'- 12" RET FENCE GATE & POSTS -PEDESTRIAN CURB RAMP PIPE OPTION (TYP) - PROP CEM CONC – PROP YEW SW THRU DWY (TYP) SHRUBS (6) - PROP EPOXY PVMT └─ MEET EXIST HMA MARKINGS (TYP) OWN - PROP 5.5' CEM DWY (SAWCUT) CONC SW └─ R1-1 PARCEL ID: 24-224 OF MATTHEW TWOMBLY AND BRIDGET TWOMBLY DEED BOOK 35956, PAGE 583 24-225 NESTWO BOOTH DR"RET RIV Π PAVEMENT MARKINGS SYMBOLS PROPOSED DESCRIPTION EXISTING SL STOP LINE CROSSWALK (DOWNEY STREET AT BOOTH DRIVE) CW CW CROSSWALK (CANTON STREET) DBYL ____ DOUBLE YELLOW LINE ______ SOLID WHITE LINE



												SIGN SUMMA	RY					
					IDENTIFICATIO NUMBER	N SIZE OF	F SIGN (in)	LEGEND	LETTER HEIGHT	VERTICA SPACING	DNS (in) L ARROW G RTE. MKR	NUMBER OF SIGNS REQUIRED	BACK- GROUND	COLOR	BORDER	NUMBER OF POSTS REQUIRED	UNIT AREA (SF)	TOTAL / (SF
		ND 83	2	•	R1-1	30	30	STOP				1	RED	WHITE	WHITE	P5 1	6.25	6.2
		NAU			W11-2	30	30		>			4	FL. YELLOW- GREEN	BLACK	BLACK	P5 4	6.25	25.
					W16-7pL	24	12)			2	FL. YELLOW- GREEN	BLACK	BLACK	MOUNT W/ W11-2	2.00	4.0
					W16-9P	24	12	AHEAD				2	FL. YELLOW- GREEN	BLACK	BLACK	MOUNT W/ W11-2	2.00	4.0
15"0 +2"P 2"0	12"P 15"0 10"0 10"0 	7 ₄₅ 20"P 	15"0 12"0 15"P 8"P	15"0 12"0 12"0 UPL 80-81 10"0	BENCH EL=14 EHH 12"0	MARK: C 4.44'	12"0(2	7 _{×7} 24 10"0 -L)	7×0 15' 20"0 "0 10"CH(2- 12"CH [L)	00 27 18"0	PARC NORFOLK DEED BOO	EL ID: 24-23 GOLF CO K 1257, PAG	31 OURSE SE 159		PROP EPO MARKINGS	EXIST PVMT MA DXY PVMT S (TYP) IMIT OF ROW 10"M 36"M2"M6 0 PT +83.	RKINGS
	12"P 15"0 10"0 10"0 RETIRED C RETIRED C	7 ₄₅ 20"P 12"0"8"0 SAS LINE 16 SEWER 12"GAS	15"0 12"0 15"P 0000 15"P	15"0 12"0 12"0 UPL 80-81 10"0 10"0 10"0 10"0 10"0 10"0 10"0 10	BENCH EL=14 EHH 12"0 5"0 5"0 5"0 5"0 5"0 5"0 5"0 5"0 5"0 5	MARK: C 4.44' 12"P 12"P NARR 17 STA 10 SEV/ER	12"0(2 OW SW TO 6+65 TO ST	24 10"0 10"0 4.5' FROM A 17+03	15° 20°0 10°CH(2- 12°CH P PT H	-78.23 18 PROP	18"0 18"0 SAWCUT (TYF	PARC NORFOLK DEED BOO	EL ID: 24-23 (GOLF CO K 1257, PAG 8"M 4"M 4"M 6" 6" 6"	51 URSE 5E 159 7 12"G/ SWL		MEET E PROP EPO MARKINGS PC +48.87 DOW	EXIST PVMT MA DXY PVMT S (TYP) IMIT OF ROW O -PT +83.	RKINGS
	12"P 15"0 10"0 10"0 <i>RETIRED</i> <i>S"PVC(R</i> -142	20"P 12"0-8"0 SAS LINE 16 SEWER 12"GAS 141 SMH	15"0 12"0 8"P 15"P 000 15"P	15"0 12"0 12"0 12"0 12"0 12"0 12"0 12"0 12	BENCH EL=14 EHH 12"0 5"0 5"0 5"0 5"0 5"0 5"0 5"0 5"0 5"0 5	MARK: C 4.44' 12"P 12"P NARR 17 STA 10 SEV/ER	12"0(2 OW SW TC 6+65 TO ST	24 10"0 10"0 4.5' FROM A 17+03 A	ла 20"0 "0 10"СН(2- 12"СН 12"СН РТ- ОНШ ОНШ ОРГ SBDH (F/H) 143.03	78.23 18 PROP	18"0 SAWCUT (TYF	PARC NORFOLI DEED BOO	EL ID: 24–23 GOLF CO K 1257, PAG	SWL		PROP EPO MARKINGS PC +48.87 DOP LIMIT OF RO 12"AS	EXIST PVMT MA	RKINGS
	12"P 15"0 10"0 70"0 70"0 70"0 70"0 70"0 70"0 70	20"P 12"0-8"0 5AS LINE 16 SEWER 12"GAS 16 SEWER 12"GAS 141 KIM=143.96 I(A)=123.7 I(B)=123.8 RET TREE; - ROP TREE PROTE	15"0 12"0 8"P 0 15"P 8"P	15"0 12"0 12"0 12"0 12"0 12"0 12"0 12"0 12	BENCH EL=14 EHH 12"0 5" SPVC(R) SPVC(R)	MARK: C 4.44'	12"0(2 OW SW-TC 6+65 TO S	24 10"0 10"0 4.5' FROM A 17+03 A - B - B - B - B - B - B - B - B - B -	Та 20"0 "0 10"CH(2- 12"CH 12"	-78.23 18 -78.23 18 -PROP	18"0 SAWCUT (TYF	PARC NORFOLIA DEED BOO	EL ID: 24–23 GOLF CO X 1257, PAG	SI URSE SE 159 VI 12"GA VI SWL SWL SWL SWL SWL SWL SWL SWL SWL SWL		PROP EPO MARKINGS PC +48.87 DOPLAT OF RO	EXIST PVMT MA	RKINGS
	12"P 15"0 10"0 10"0 RETIRED C 10"0 C RETIRED C 142 P	20"P 12"0"8"0 SAS LINE 16 SEWER 12"GAS MH RIM=143.96 1(A)=123.7 I(B)=123.8 RET TREE; - ROP TREE PROTE	15"0 12"0 8"P 8"P 8"P 8"P 8"P 8"P 8"P 8"P 8"P 8"P	EET CONSTRU	JCTION BASE	MARK: C 4.44'	12"0(2 OW SW TC 6+65 TO S	24 10"0 10"0 4.5' FROM A 17+03 A - S - B A - S -	Ту 20"0 "0 (10"CH(2- 12"CH 12"CH 12"CH РТ - ОНУ ОРУ ОРУ ОРУ ОРУ ОРУ ОРУ ОРУ ОРУ ОРУ ОР	PROP	SAWCUT (TYPE	PARC NORFOLI DEED BOO	EL ID: 24–23 GOLF CO X 1257, PAG	SWL PROTECTION SWL PROTECTION SWL PROTECTION SWL PROTECTION SWL PROTECTION SWL PROVIDE S		PROP EPO MARKINGS PC +48.87 DOPLOT OF RO 12"AS	EXIST PVMT MA	RKINGS
°O	12"P 15"0 10"0 10"0 RETIRED RETIRED PI	20"P 12"0"8"0 CAS LINE 16 SEWER 12"GAS 12"GAS 12"GAS 12"GAS SMH RIM=143.96 12"GAS 12"GAS CAS RET TREE; - RET TREE; - RET TREE; - ROP TREE PROTE	15"0 12"0 8"P 8"P 8"P 8"P 8"P 8"P 8"P 8"P 8"P 8"P	EET CONSTRU	EL=14 EHH 12"0 0"0 5" CONST D PVC(R) DEC	MARK: C 4.44'	12"0(2 OW SW TO 6+65 TO ST A ENDING STATION	24 10"0 10"0 4.5' FROM A 17+03 A - S - B 1(A) = I(B) = RET NORTHING	То" 20"0 15' 20"0 10"CH(2- 12"CH 12"CH РТ - 12"CH РТ - 12"CH РТ - 143.03 124.2 124.3 UPL EASTING	PROP	SAWCUT (TYPE	PARC NORFOLI DEED BOO	EL ID: 24–23 GOLF CO X 1257, PAG	SWL PROTECTION SWL PROTECTION SWL PROTECTION SWL RI PROVIDE SW CLEA EXCLUDING	THE TUPL;	PROP EPO MARKINGS PC +48.87 DOP I 2"AS D"AS	EXIST PVMT MA	RKINGS
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	12"P 15"0 10"0 <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RETIRED</i> <i>RET</i>	20"P 12"0-8"0 3AS LINE 16 SEWER 12"GAS MH RIM=143.96 I(A)=123.7 I(B)=123.8 RET TREE; - ROP TREE PROTE DO NORTHING 2905017.0301 2905180.0870	15"0 12"0 8"P 8"P 8"P 8"P 8"P 8"P 8"P 8"P 8"P 8"P	EET CONSTRU R=480.08' Δ= L=354.94' T=	BENCH EL=14 54 12"0 0"0 12"0 0"0 12"0 0"0 12"0 50"0 50"0 50"0 50"0 50"0 50"0 50"0 5	MARK: C 4.44' 12"P 12"P 12"P 12"P 12"P 12"P 12"P 12"P	12"0(2 0W SW TC 6+65 TO S 6+65 TO S 17+78.23 19+48.87 19+83.12	24 10"0 10"0 4.5' FROM A 17+03 A 6 6 SMH I(A) = I(B) = RET NORTHING 2905017.0301 2905213.1110	ире 15° 20°0 10°Сн(2– 12°Сн 12°Сн РТ н 143.03 124.2 124.3 UPL – Казтіна 745025.950 745076.2596 745085.3453	78.23 18 PROP	SAWCUT (TYPE	PARC NORFOLD DEED BOO 73 1 1 1 5 7 1 5 7 0 1 5 7 0 1 5 7 0 1 5 7 0 1 5 7 0 1 5 7 0 1 5 7 0 1 5 7 0 1 5 7 0 1 5 7 0 1 5 7 0 1 5 7 0 1 5 7 0 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	EL ID: 24–23 GOLF CO K 1257, PAG	SI URSE SE 159	The second secon	PROP EPO MARKINGS PC +48.87 DON DON LIMIT OF RO 12"AS D"AS	EXIST PVMT MA	RKINGS
	P 70 70 70 70 70 70 70 70 70 70 70 70 70	20"P 12"0" 3AS LINE 16 SEWER 12"GAS AS LINE 16 SEWER 12"GAS AS LINE 16 SEWER 12"GAS AS LINE 12"GAS AS LINE 141 SMH RIM=143.96 I(A)=123.7 I(B)=123.8 RET TREE; - ROP TREE PROTE DO NORTHING 2905017.0301 2905213.1110	15"0 12"0 8"P 8"P 8"P 8"P 8"P 8"P 8"P 8"P 8"P 8"P	15"0 12"0 10"0	BENCH EL=14 EHH 12"0 0"0 12"0 0"0 12"0 0"0 12"0 0"0 12"0 0"0 12"0 10"1	MARK: C 4.44' 12"P 12"P 12"P 12"P 12"P 12"P 12"P 12"P	12"0(2 0W SW TC 6+65 TO S 6+65 TO S 17+78.23 19+48.87 19+83.12 21+34.45	24 10"0 10"0 4.5' FROM A 17+03 A S B A	Сото 20"0 20"0 10"CH(2- 12"CH 1	-78.23 18 -78.23 18 - DEG - DEG - EAD	18"0 SAWCUT (TYF	PARC NORFOLIA DEED BOO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EL ID: 24–23 GOLF CO K 1257, PAG	SI URSE SE 159	The second secon	PROP EPO MARKINGS PC +48.87 DOWN DUMIT OF RO 12"AS 0"AS	EXIST PVMT MA	RKINGS





		D	OWNEY STR	EET CONSTRUCTION B	ASELINE DA	TA
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	EN ST/
C4	21+34.45	2905359.9210	745122.0669	R=197.50 [°] Δ=38°13'58" L=131.79' T=68.45'		22+
L5	22+66.24	2905468.2126	745192.8219		N52°16'33"E 301.07'	25+
C5	25+67.31	2905652.4236	745430.9559	R=499.49 [°] Δ= 10°36'55" L=92.54' T=46.40'		26+

	CANTON STREET CONSTRUCTION BASELINE DATA												
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENI STA							
C6	101+79.22	2906063.9269	745374.9589	R=530.00 [°] Δ=30°10'03" L=279.06' T=142.84'		104+							
C7	104+58.27	2905789.2199	745399.9740	R=795.00 [°] Δ=50°20'16" L=698.45' T=373.57'		111+							

				TEMP	ORARY TRA	AFFIC CONT	ROL SIGN SI	JMMARY				1
IDENTIFICATION	SIZE OF SIGN (in)			TEXT	DIMENSIO	NS (in)		COLOR			UNIT AREA	TOTAL AREA
NUMBER	WIDTH	HEIGHT	LEGEND	LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR	BACK- GROUND	LEGEND	BORDER	REQUIRED	(SF)	(SF)
MA-R2-10a	48	36	WORK ZONES SPEEDING FINES DOUBLED	MASSD	MASSDOT STANDARD SIGN			BLACK	BLACK	3	12.00	36.00
MA-R2-10e	36	48	END ROAD WORK DOUBLE FINES END					BLACK	BLACK	3	12.00	36.00
W5-1	36	36	ROAD	SEE 2009 TRAFFIC C STREE	SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS			BLACK	BLACK	1	9.00	9.00
W20-1	36	36	ROAD WORK AHEAD				FL. ORANGE	BLACK	BLACK	3	9.00	27.00
W20-4	36	36	ONE LANE ROAD AHEAD				FL. ORANGE	BLACK	BLACK	3	9.00	27.00
MA-W20-7b	36	36	POLICE OFFICER AHEAD	MASSD	MASSDOT STANDARD SIGN		FL. ORANGE	BLACK	BLACK	3	9.00	27.00
W21-5a	36	36	RIGHT SHOULDER CLOSED	SEE 2009 TRAFFIC C STREE	MANUAL ON ONTROL DE TS AND HIG	N UNIFORM EVICES FOR GHWAYS	FL. ORANGE	BLACK	BLACK	1	9.00	9.00



LEGEND:



WESTWOOD DOWNEY STREET SIDEWALK TEMPORARY TRAFFIC CONTROL PLANS SHEET 8 OF 22

ADVANCE SIGNING SCHEMATIC N.T.S.





<u>NOTE:</u> MA-R2-10e SIGNS SHALL BE LOCATED 100' FROM THE LIMIT OF WORK.

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 THE "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 ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- 8. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- 9. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- 10. 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.
- 11. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
- 12. NO WORK THAT IMPACTS THE TRAVELED WAY SHALL BE PERMITTED DURING PEAK HOUR TRAFFIC. PEAK HOUR IS DEFINED AS WEEKDAYS FROM 7-9 AM & 4-6 PM.

LEGEND:

- CHANNELIZATION DEVICE
 - WORK ZONE
- (P/F) POLICE/FLAGGER DETAIL
- DIRECTION OF TRAFFIC
- └── TYPE III BARRICADE
- CHANGEABLE MESSAGE SIGN
- ARROW BOARD
- MEDIAN BARRIER MEDIAN BARRIER WITH

IMPACT ATTENUATOR

- WARNING LIGHTS
- TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES
 - TAPER LENGTH (L)

WORK VEHICLE

SIGN

TRUCK MOUNTED ATTENUATOR

← → TRAFFIC OR PEDESTRIAN SIGNAL

TEMPORARY PORTABLE RUMBLE STRIP

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. 100 FT MAX.	
DOWNSTREAM TAPER	50 FT MIN. 100 FT MAX. PER LANE	

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

WHERE: L = TAPER LENGTH IN FEET

- W = WIDTH OF OFFSET IN FEET
- S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH







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DOWNEY STREET SIDEWALK CONSTRUCTION DETAILS



WESTWOOD DOWNEY STREET SIDEWALK CONSTRUCTION DETAILS SHEET 11 OF 22

ARMOR TREES AS SHOWN ON PLANS OR PER ARBORIST

ARMOR FROM BASE OF TREE, INCLUDING ROOT FLARE, TO FIRST BRANCH.

	EXCAVATE TO REQUIRED DEPTH AND BACKFILL WITH PLANTING MIX	WATER & MA STANDARD \$
	SHRUBS SHALL BE SET PLUMB	CROWN OF S SLIGHTLY AE AFTER SETT
		2-3 INCH DEF (PULL AWAY
		BACKFILL MI STANDARD S
		3 INCH HIGH SAUCER AR
6 INCHES BELOW ROOTBALL		COMPLETEL AND LACING REMOVE CO SCORE SIDE ANY ROOTS
		EXISTING SU
	3 X ROOTBALL	LOOSE OR C NOT BE ACC

WATER BY FLOODING TWICE IN FIRST TWO HOURS AFTER PLANTING. IAINTAIN AS PER SPECIFICATIONS

SHRUB SHOULD BE BOVE FINISHED GRADE TLING

PTH AGED PINK MULCH (FROM BASE OF SHRUB)

IIX PER SPECIFICATIONS EARTH WATERING ROUND SHRUB

LY REMOVE SYNTHETIC BURLAP G. FOR CONTAINERIZED PLANTS, ONTAINER PRIOR TO PLANTING. ES OF CONTAINER AND LOOSEN SENCIRCLING THE ROOT BALL

UBSOIL

CRACKED ROOTBALLS WILL CEPTED FOR PLANTING

WESTWOOD DOWNEY STREET SIDEWALK CROSS SECTIONS SHEET 14 OF 22

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WESTWOOD DOWNEY STREET SIDEWALK CROSS SECTIONS SHEET 15 OF 22

WESTWOOD DOWNEY STREET SIDEWALK CROSS SECTIONS SHEET 16 OF 22

WESTWOOD DOWNEY STREET SIDEWALK CROSS SECTIONS SHEET 17 OF 22

WESTWOOD DOWNEY STREET SIDEWALK **CROSS SECTIONS SHEET 18 OF 22**

HOR. SCALE IN FEET 4 0 4 VER. SCALE IN FEET

E	COMMON NAME	SPACING	SIZE
	RED NORTHERN OAK	25'-30'	≥ 2.5" cal
	WHITE OAK	25'-30'	≥ 2.5" cal
	RIVER BIRCH	25'-30'	≥ 2.5" cal
	RED NORTHERN OAK	25'-30'	≥ 3" cal
	WHITE OAK	25'-30'	≥ 3" cal
	RIVER BIRCH	25'-30'	≥ 3" cal
	RED NORTHERN OAK	25'-30'	≥ 4" cal
	WHITE OAK	25'-30'	≥ 4" cal
	RIVER BIRCH	25'-30'	≥ 4" cal

