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- PROJECT LOCATION

CANADA

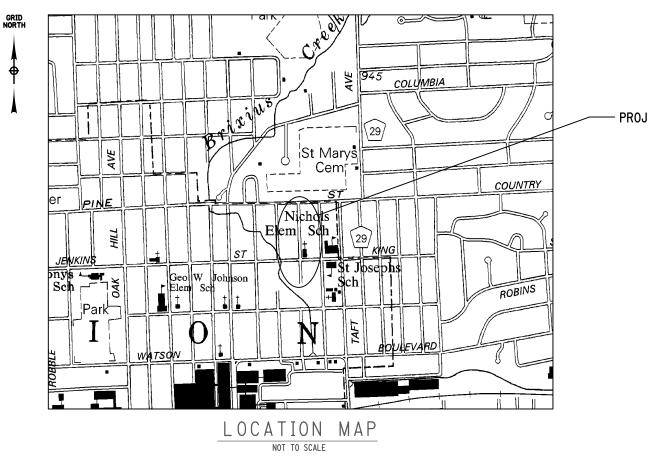
COST(S)



VILLAGE OF ENDICOTT DEPARTMENT OF PUBLIC WORKS

WATER MAIN REPLACEMENT ALONG NORTH ARTHUR AVE. VILLAGE OF ENDICOTT BROOME COUNTY, NEW YORK

15 CONSTRUCTION PLAN SHEETS 13 NYSDOT STANDARD SHEETS



THIS PROJECT IS LOCATED ON NORTH ARTHUR AVENUE IN THE VIALLAGE OF ENDICOTT, BROOME COUNTY, STATE OF NEW YORK.

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE NYSDOT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE NYSDOT STANDARD SPECIFICATIONS (ENGLISH UNITS) OF MAY 1, 2024, WITH CURRENT ADDITIONS AND MODIFICATIONS, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE PROPOSAL.

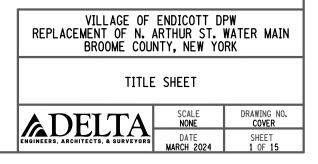
CHANGES MADE TO THESE PLANS AND RELATED CONTRACT DOCUMENTS SINCE COMPLETION BY THE CONSULTING ENGINEER MAY BE DETERMINED BY COMPARISON WITH SUCH CONTRACT PLANS AND RELATED DOCUMENTS FILED AT THE OFFICE OF THE CONSULTING ENGINEER.



Br C -03|28|2024 DATE

BRIAN R TYLER, PE DELTA ENGINEERS, ARCHITECTS, LAND SURVEYORS, & LANDSCAPE ARCHITECTS, D.P.C. ENDWELL, NY N.Y.S.P.E. NO. 095229

PROJECT LOCATION



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		ALIGNMENT		Т	OPOGRAP	HY (MISCELLANEOUS)			UTILITIES	
	ABBR,	DESCRIPTION	ABBF	. D	ESCRIPTIO	N		ABBR.	DESCRIPTION	
Ш	AH	AHEAD	ABL	A TL	BUTMENT			E	ELECTRIC	
	AZ	AZIMUTH	AOE	BE A	S ORDERED	BY ENGINEER		EMH	ELECTRIC MANHOLE	
	BK	BACK	AS	PH A:	SPHALT			G	GAS	
	ß	BASELINE	BI	_	OUNDARY			GP	GUY POLE	
5	BRG	BEARING	BLI	_	UILDING			GSB	GAS SERVICE BOX (HOUSE LINE)	
	<u>¢</u>	CENTERLINE	_		ENCH MARK			GV	GAS VALVE (MAIN LINE)	
5	CS	CURVE TO SPIRAL		_	ENTER TO (CENTER		HYD	HYDRANT	
	e	SUPERELEVATION RATE (CROSS SLOPE)	00			A 1		LP	LIGHT POLE	
	EQ EXT	EQUALITY EXTERNAL			ONSTRUCTIO			LPG PP	LOW PRESSURE GAS POWER POLE	
5	HCL	HORIZONTAL CONTROL LINE	_		OUNTY ROAD			SA SA	SANITARY SEWER	
	HSD	HEADLIGHT SIGHT DISTANCE	-	-	IRECT MEAS			SMH	SANITARY MANHOLE	
	L	LENGTH OF CIRCULAR CURVE			RIVEWAY			ST	STORM SEWER	
	LS	LENGTH OF SPIRAL			DGE OF PAN	/EMENT		T	TELEPHONE	
	LVC	LENGTH OF VERTICAL CURVE	_	_	DGE OF SHO			TCB	TRAFFIC CONTROL BOX	
	E	CENTER CORRECTION OF VERTICAL CURVE	_		EE ACQUISI			TELBOX	TELEPHONE BOX	
	M	MAIN LINE	FEE WO	A F	EE ACQUISI	TION WITHOUT ACCESS		TEL P	TELEPHONE POLE	
	PC	POINT OF CURVATURE	F	P F	ENCE POST			ТМН	TELEPHONE MANHOLE	
	PI	POINT OF INTERSECTION	f		OUNDATION			СТУ	CABLE TELEVISION	
	POL	POINT ON LINE	_	_	ENCE LINE			W	WATER	
2	PSD	PASSING SIGHT DISTANCE			ARAGE			WSB	WATER SERVICE BOX (HOUSE LINE)	
5	PT	POINT OF TANGENT	_		RAVEL			WV	WATER VALVE (MAIN LINE)	
•	PVC	POINT OF VERTICAL CURVE		_	IOUSE	SUBSURFACE EXPLORATION				
5	PVI PVT	POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENT	_	HWY HIGHWAY IP IRON PIN OR IRON PIPE					1	
	R	RADIUS			AILBOX	IRON FIFE		ABBR.	DESCRIPTION	
	SC	SPIRAL TO CURVE			MONUMENT			REP	LACE ABBREVIATION "AB" WITH:	
5	SSD	STOPPING SIGHT DISTANCE		N&W NAIL AND WASHER			AH	HAND AUGER		
	ST	SPIRAL TO TANGENT		OG ORIGINAL GROUND				CP	CONE PENTROMETER	
	STA	STATION			VERHEAD			DA	2 ¹ / ₄ INCHES CASED DRILL HOLE	
	T	TANGENT LENGTH		P P	ARCEL			DM	DRILLING MUD	
лĿ,	TGL	THEORETICAL GRADE LINE	PAV	"T P.	AVEMENT			DN	4 INCHES CASED DRILL HOLE	
	TS	TANGENT TO SPIRAL	_	_	PERMANENT E			FH	HOLLOW FLIGHT AUGER	
:	VC	VERTICAL CURVE	PED POL	_	EDESTRIAN			PA	POWER AUGER	
5		TOPOGRAPHY (DRAINAGE)			ROPERTY LI	NE		PH	PROBE	
	ABBR.	DESCRIPTION		_	ORCH			PT	PERCOLATION TEST HOLE	
٤ 		BOTTOM OF BANK (STREAM)	_	_				RP	1 INCH SAMPLER (RETRACTABLE PLUG)	
ź 📗	BB BC	BOTTOM OF BANK (STREAM) BOTTOM OF CURB			ROUTE RIGHT OF WA	v		SP	TO BE DEFINED AT THE TIME OF EXPLORATION SEISMIC POINT	
	BO	BOTTOM OF OPENING			RETAINING W			TP		
5	CAP	CORRUGATED ALUMINUM PIPE	_		TATE HIGHW				ATION "C" IN CATEGORIES:	
	СВ	CATCH BASIN	SHL		HOULDER				DN, AND FH WITH:	
	CIP	CAST IRON PIPE	_		PIKE			B		
	©_STRM	CENTERLINE OF STREAM		ST S	TREET			С	CUT	
	CMP	CORRUGATED METAL PIPE	S	TK S	TAKE			D	DAM	
5	CP	CONCRETE PIPE			TORY			F	FILL	
	CSP	CORRUGATED STEEL PIPE	_		IDEWALK			ĸ	CULVERT	
лI.	CULV	CULVERT			EMPORARY E			W	WALL	
	DIA		_	_	EMPORARY (_ ×	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION	
	DMH DRAINAGE MANHOLE			_		J		-	IS MADE	
	DIVING	DRAINAGE STRUCTURE PIPE		W W	/ING WALL				1	
	D'XING EHW	DITCH CROSSING EXTREME HIGH WATER	-				_			
	EHW	ELEVATION	-		ANDARD	ITEM PAYMENT UNIT:		IVALENT		
	ELEV	ELEVATION	-		VBOL	ESTIMATE OF		ENCLATURE:		
ון י	ELW	EXTREME LOW WATER	1		ANS)	QUANTITIES SHEET	(SPE	CS/PROPOS		
	ES	END SECTION	1	"		-	INCH	ES		
3	HW	HEADWALL	1	'		LF		AR FEET		
z II		1.1.20 F	-			L AT		· ~		

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YD²

AC YD³

GAL

lb

TON

MI

SF

SY

AC

CY

GAL

LB

TON

MILES

ACRES

GALLON

POUND

TON

SQUARE FEET

SQUARE YARD

CUBIC YARD

DRAWING INDEX									
Sheet Number	DESCRIPTION								
1	TITLE SHEET	COVER							
2	INDEX AND ABBREVIATIONS	INDEX							
3	LEGEND AND POINT SYMBOLOGY	LEG-1							
4	LEGEND AND LINE SYMBOLOGY	LEG-2							
5	WATER MAIN TRENCH SECTION	TYP-01							
6	GENERAL NOTES	GN-01							
7	ALIGNMENT CONTROLS	ALG-01							
8	WATER MAIN DETAILS	MSD-01							
9 TO 12	GENERAL PLANS	GNP-01 THRU GNP-							
13 TO 15	WATERLINE PROFILES	PRO-01 THRU PRO-							

NYSDO ⁻	T STANDARD SHEETS
209-03	DRAINAGE STRUCTURE INLET PROTECTION (2
619-002	TYPE III CONSTRUCTION BARRICADES (2 SHEET
619-004	PORTABLE TEMPORARY WOODEN SIGN SUPPO
619-010	WORK ZONE TRAFFIC CONTROL GENERAL NO
619-011	WORK ZONE TRAFFIC CONTROL GENERAL TAI
619-012	SIGN TABLE (2 SHEETS)
663-01	WATER MAIN PIPE INSTALLATION DETAILS
663-02	WATER MAIN HORIZONTAL THRUST RESTRAIN
663-03	WATER MAIN VERTICAL THRUST RESTRAINT D
663-04	WATER MAIN UTILITY CROSSING RELOCATION
663-05	WATER MAIN HYDRANT AND VALVE DETAILS
663-07	WATER MAIN SERVICE CONNECTION DETAILS

INV INVERT

MH MANHOLE

MHW MEAN HIGH WATER

TG TOP OF GRATE VCP VITRIFIED CLAY PIPE

CHJ

N

OHW ORDINARY HIGH WATER

OLW ORDINARY LOW WATER

TB TOP OF BANK (STREAM) TC TOP OF CURB

 RCP
 REINFORCED
 CONCRETE
 PIPE

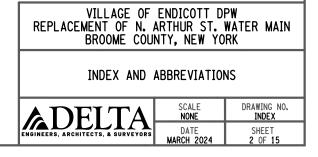
 SICPP
 SMOOTH
 INTERIOR
 CORRUGATED
 POLYETHYLENE
 PIPE

nd.dgn

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ROTECTION (2 SHEETS) ADES (2 SHEETS) EN SIGN SUPPORT GENERAL NOTES GENERAL TABLES AND LEGEND

N DETAILS UST RESTRAINT DETAILS RESTRAINT DETAILS **RELOCATION DETAILS**



ALIGNMENT				DRAINAGE ITS				ROW MAPPING			SIGNS				UTILITIES		
CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION
	ACC	CENTER OF CURVATURE	+	DINV	INVERT			ANTENNAS		MDL1P	DEED LINE, TYPE 1		S	SINGLE POST		UEB	ELECTRIC, BOX
+	ACOGO	COGO	- -	DS	STRUCTURE, RECTANGULAR	A)	IASCTS	ACCOU. SPEED/COUNT SNSR.S	Ø	MDL2P	DEED LINE, TYPE 2	þ	S_P	SINGLE POST, PROPOSED	E	UEM	ELECTRIC, METER
	ACS	CURVE TO SPIRAL	-			P	ICABPAD	CABINET & PAD	9 9	MDL3P	DEED LINE, TYPE 3	l l	SB_P	BACK TO BACK, PROPOSED	Ē	UEMH	ELECTRIC, MANHOLE
<u></u>	ADPI_P	DETOUR, POINT OF INTERSECT.	+	DSI	STRUCTURE, INVERT		ICCTV	CCTV SITE	Ð	MDL4P	DEED LINE, TYPE 4		SDEL	DELINEATORS	Ŧ	UEPT	ELECTRIC, POLE, TRANS.
0	ADPL_P			DSM	STRUCTURE, MANHOLE		ICDPD	CDPD TRANSCEIVER	9	MDL5P	DEED LINE, TYPE 5		SPM	PARKING METER	G	UGM	GAS, METER
	AEQN	EQUATION	\odot	DSMTXX_P	STRUCTURE, MANHOLE, TYPE "XX"	*	ICELLT	CELL PHONE TOWER	0	MEEP	EASEMENT. EXISTING	REM	SRM	REFERENCE MARKERS	G	UGMH	GAS, MANHOLE
@	AEQNAH				"XX" = 48, 60, 72, 96		ICJB	CONDUIT JACK OR BORING	⊗	MEPAP_P	EASEMENT, PERM., APPROX.		SRSC3	SHLD, CTY, 123 DIG.		UGLM	GAS, LINE MARKER
8	AEQNBK		\bigotimes	DSR	STRUCTURE, ROUND		ICNTLCAB	CONTROLLER CABINET	- O	MEPP_P	EASEMENT, PERM., BACK LINE	K	SRSC4	SHLD, CTY, 4 DIG.	FP	UGP	GAS/FUEL PUMP
0	AEVT	EVENT STATION	××××	DST"X"CB	STRUCTURE, RECT., WITH CURB TYPE "X"		ICPB	COMMUNICATION PULL BOX	0	MEPSP_P	EASEMENT, PERM., SHAPE	$\overbrace{\Omega}$	SRSCT2	SHLD, CTY TOUR, 1-2 DIG.	×	UGV	GAS, VALVE
0	APC	POINT OF CURVATURE			"X" = F, G, N, O, P, R	⊗	ICTD	CONDUIT TURNING DOWN	© ♦	MERSP_P	FEE ACQUISITION, APPROX.		SRSCT2	SHLD, CTY TOUR, 3-4 DIG.		UGVT	GAS, VENT
©	APCC	POINT OF COMPOUND CURVATURE		DST"X" P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U	 	ICTU	CONDUIT TURNING UP	\ ♦	MFP_P	FEE ACQUISITION, BACK LINE	┢	SRSI	SHLD, INTERSTATE	<u>⊙</u> -⊃		LIGHTING, POLE
<u> </u>	API	POINT OF INTERSECTION						COMM, VEH, ROAD TRANSCEIVER	♥	MFF_F MFSP_P	FEE ACQUISITION, BACK LINE	ΰ	SRSN2	SHLD, NATIONAL, 2 DIG.	a⊖-D		LIGHTING, POLE, MEDIAN
 	APOB	POINT OF BEGINNING		EN	VIRONMENTAL)¢(× ※			i min	SRSN2			ULPP	LIGHTING, POLE, PED.
	APOD		CULV	EI0P_P	STR., INLET, OUTLET PROT.		IDEFAULT	DEFAULT	×× ()	MHBAP	HIGHWAY BNDRY., APPROX.			SHLD, NATIONAL, 3 DIG. SHLD, STATE, 2 DIG.		UMFC	MISC. FILLER CAP
•	APOC	POINT OF END				EZ	IEZR	E-ZPASS READER		MHBCP	HISTORICAL, BLDG. CORNERS	$\overline{\mathbf{O}}$	SRSS2				
	APOL	POINT OF END	GB	EIPGB_P	STR., INLET PROT., GRAVEL BAG		IEZTR	TRANSMITTAL READER	×	MHBP	HIGHWAY BNDRY, PT.		SRSS3	SHLD, STATE, 3 DIG.	_ ♦ _	UOLM	OIL, LINE MARKER
\odot		POINT ON LINE	(H∕S)	EIPHS_P	STR., INLET PROT., HAY/STRAW		IFOXCAB	FIBER OPTIC X-CONNECT CABINET	 	MJCP	PT., JURIS. CITY	$\vdash \smile$	SRSS4	SHLD, STATE, 4 DIG.	0	01	POLE, WITH UTILITY
\odot	APOS		£			<u>ب</u> ريد 	IFUSSPL	FUSION SPLICE	•	MPBC	PT., BUILDING CORNER	-	TRA	FFIC CONTROL	 	UPD	POLE, DEAD (NO UTILITY)
\odot	APOT APOVC	POINT ON TANGENT POINT ON VERTICAL CURVE	PRFB	EIPP_P	STR., INLET PROT., PREFAB.	싸 88	IHARADV	HAR ADVISORY SIGN	© >	MPCC	PT., CROSS CUT		TCBJ	BOX, JUNCTION	<u>_</u>		POLE, WITH LIGHT
		POINT ON VERTICAL CORVE	(SF)	EIPSE_P	STR., INLET PROT., SILT FENCE	→ 文 M M	IHARST	HAR SITE	() 	MPDH	PT., DRILL HOLE		TCBP	BOX, PULL BOX	0	USMH	SANITARY SEWER MANHOLE
	APOVT		9			LC	ILC	LOAD CENTER	*	MPF	PT., FENCE LOCATION		TCBS	BOX, SPLICE	P	UTB	TELEPHONE, BOOTH
ř	APORC	POINT ON REVERSE CURVE		ERCB	RISER, CONCRETE BOX		IMECSPL	MECHANICAL SPLICE	0	MPIP	PT., IRON PIPE		ТСМС	MICROCOMPUTER CABINET	-\$- 	UTLM	TELEPHONE, LINE MARKER
0	APT	POINT OF TANGENCY	\frown	ETRS_P	TRAP, SEDIMENT	PM))	IMSCS	PORT. SPEED & COUNT SENSOR	0	MPIR	PT., IRON ROD	਼	TCPP	PED POLE	(T)	UTMH	TELEPHONE, MANHOLE
•	APVC	POINT OF VERTICAL CURVATURE	+	EWFG	WETLAND FLAG		IMSCTS	MICRO SPEED & COUNT SENSOR		MPM	PT., MONUMENT	•	TCSH	SIGNAL HEADS	~~	UTVLM	CABLE TV, LINE MARKER
۵	APVCC	POINT OF VERT. CMPND CURVE		CE	OTECHNICAL	:)): :)):	IMT	MICROWAVE TRANSCEIVER		MPMM	PT., MONUMENT, MISC.	\odot	TCSP	SIGNAL POLE	\bigcirc	UTVPB	CABLE TV, PULL BOX
@ 	APVI	POINT OF VERT. INTERSECTION	0				IOVHVMS	PERM. OVERHEAD VMS	X	MPN	PT., NAIL	_	TRAF	FIC WORK ZONE		UUB	UNKNOWN, BOX
	APVRC	POINT OF VERT. REVERSE CURVE	•	GDH	DRILL HOLE		IPASCS	PORT. ACCOU. SPD & CNT. SENSOR	×.	MPRS	PT., RAILROAD SPIKE		1			UUJB	UNKNOWN, JUNCTION BOX
۲	APVT	POINT OF VERTICAL TANGENCY		l	ANDSCAPE	Ш	IPEDS	PEDESTRIAN SIGNAL HEAD		MPSP	PT., SPIKE	·:···	TWZAP_P	ARROW PANEL	\otimes	UUMH	UNKNOWN, MANHOLE
0	ASC	SPIRAL TO CURVE	+	LELS	ELEVATION, SPOT	\diamond	IPSS	PAVEMENT SURFACE SENSOR	*	MPST	PT., STAKE		1	ARROW PANEL, CAUTION MODE		UUPB	UNKNOWN, PULL BOX
	ASPI	SPIRAL POINT OF INTERSECTION	6	LFP	FLAG POLE	PVMS	IPVMS	PERM. VMS	8	MPTW	PT., TREE W/ WIRE	•••		ARROW PANEL, TRAILER OR SUPPORT		UUVL	UNKNOWN, VALVE
\odot	ASTS	SPIRAL TO SPIRAL	•	LMB	MAILBOX	RM	IRM	RAMP METER	+	MPWL	PT., WALL LOCATION			BARRICADE (TYPE III)	$\overline{\mathbf{x}}$	UUVT	UNKNOWN, VENT
\otimes	AST	SPIRAL TO TANGENT		LPB	PAPER BOX		IRWIS	RDWY WEATHER INFO. SENSOR		RC	W ACQUISITION		TWZCMS_P		0	UUW	UNKNOWN, WELL
\otimes	ATS	TANGENT TO SPIRAL	\odot	LPST	POST, SINGLE		ISP	SOLAR PANEL		МЕСРТ	FEE ACQUISITION		TWZFLG_P		Q	UWFH	WATER, FIRE HYDRANT
A	AVEVT	VERTICAL EVENT POINT	63	LRB	ROCK, BOULDER	- XÚ	ISST	SPREAD SPECT. TRANSCEIVER	FEE	mr 3_r_1			TWZFT_P	FLAG TREE IMPACT ATTENUATOR /	W	UWM	WATER, METER
\odot	AVHIGH		*	LSHC	SHRUB, CONIFEROUS		ITDB	TELEPHONE DEMARCATION BLK		MEPS_P_T	EASEMENT, PERMANENT		TWZIA_P	CRASH CUSHION (TEMPORARY)	W	UWMH	WATER, MANHOLE
\odot	AVLOW	VERTICAL LOW POINT	\bigcirc	LSHD	SHRUB, DECIDUOUS	O _{TP}	ITP	SUBSURFACE TEMP. PROBE			EASEMENT, TEMPORARY		TWZLUM_P	LUMINAIRE (TEMPORARY)	Ð	UWV	WATER, VALVE
		BRIDGE		LTC	TREE, CONIFEROUS	. Ж́к	IVTRT	VEHICLE TO RDWY TRANSCEIVER	Ĩ	mEIJ_F_I	CASEMENT, (EMFORANT	_=>	TWZSDT_P	SYMBOL, DIRECTION OF TRAFFIC		UWW	WATER, WELL
	BSC	BRIDGE, SCUPPER	 	LTD	TREE, DECIDUOUS		IWIMD	WEIGHT IN MOTION DETECTOR		METS_P_T	OCCUPANCY, TEMPORARY	┝	TWZSDTD				
	1	CONTROL	Q Q	LTS	TREE, STUMP) Mexico	IWVR	WIRELESS VIDEO REPEATER		МЕСРТ	FEE ACQUISITION W/O ACCESS		TWZSGN_P	SIGN (TEMPORARY) SIGNAL, TRAFFIC OR PEDESTRIAN			
	1		Ø	LTW P	TREE, WELL OR WALL		IWVRC	WIRELESS VIDEO RECEIVER	FEE WO/A				TWZSIG_P	(TEMPORARY)			
	CBP	BASELINE, POINT	+	LUKP	UNKNOWN POINT	:W:	IWVTT	WIRELESS VIDEO TRANSMITTER			ROADWAY		TWZWL_P	WARNING LIGHT			
· ·	CBPOL	BASELINE, POINT ON LINE	1 TUC		LUSTRATES MAPPING FEATURES (EX				0	RES P	ELEVATION, SPOT		TWZWV_P	WORK VEHICLE WORK VEHICLE WITH TRUCK			
٢	CBSP	DASELINE, SFUR FUINT			SHOWN AS EITHER LINEAR (ROADWA			STDEWALK		RGA	GUIDE RAIL, ANCHOR		TWZWVA_P	MOUNTED ATTENUATOR			
÷	CBTP	BASELINE, TIE POINT	UTIL	LITY LINES,	ETC.) OR POINT (SIGN, UTILITY PO	LE, ETC.)	ALL, NOADWAT	JJUL IIALN,	0	RGP	GUIDE POST, SINGLE	1				1	VILLAGE OF ENDICOTT DPW
	CPBM		3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE					I	J			R	REPLACEM	ENT OF N. ARTHUR ST. WATEF			
\$	CPH	POINT, HORIZ. PHOTOGRAMMETRY	CORRESPONDING PROPOSED FEATURES. 4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY								E	BROOME COUNTY, NEW YORK					
٨	CPSM	POINT, SURVEY MARKER, PERM.	EXCL	LUDING LINE	E WEIGHT. LINE WEIGHT FOR PROP SIZE DRAWINGS).	OSED FEA	ATURES IS THI	CKER									
Φ	CPSV	POINT, VERT., PHOTOGRAMMETRY			RES NOT INCLUDED ON THE LEGENE) SHEFT	DO NOT HAVE									LE	GEND AND POINT SYMBOLOGY
	_		SYM	IBOLOGY (SU	CH AS THE PAVEMENT EDGE, PAVEM BELED ON THE PLANS.	ENT EDG	E OF TRAVEL	WAY) AND									
					WN AT THE HEAVIER WEIGHT ARE PF	ROPOSED	ONLY AND DO	NOT HAVE								NF	
					EXISTING FEATURES.										ENGI	NEERS, ARCHITE	CTS, & SURVEYORS DATE S MARCH 2024 3

	ALIGNMENT			ANDSCA	PE		Y	TRAFFIC WORK ZONE			
STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION		TWZBT_P	BARRIER, TEMPORARY
	AC	CONTROL (CENTERLINE)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	LABL	AREA, BRUSH LINE	cz	RCZ_P	CLEAR ZONE		TWZBTWL_	BARRIER, TEMPORARY, W/ WARNI LIGHTS
	AD_P	DETOUR		LAHR	AREA, HEDGE ROW	OO	RG	GUIDE RAIL, MISCELLANEOUS		TWZCD_P	CHANNELIZING DEVICE
	AT_P	TRANSITION CONTROL	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	LAPB	AREA, PLANTING BED		RGB	GUIDE RAIL, BOX BEAM	\\\\\\\\\	TWZPMRC_F	PAVEMENT MARKING REMOVAL OR COVERING
	BRIDGE		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	LAWA	AREA, WOODED AREA OUTLINE		RGBM	GUIDE RAIL, BOX BEAM, MEDIAN		UTILITIE	
	BR	RAIL		LAWE	AREA, WATERS EDGE		RGC	GUIDE RAIL, CABLE	STYLE	NAME	DESCRIPTION
$\neg \land \land \land$	BSHT	SHEET PILING		LCUT_P	CUT LIMIT		RGCB	GUIDE RAIL, CONCRETE BARRIER	C	UC	CONDUIT, UNDERGROUND
	CONTRO			LFILL_P	FILL LIMIT	0 0	RGP_P	GUIDE POST]c[UCH	CONDUIT, HANGING
	СВ	BASELINE	——————————————————————————————————————	LFNC	FENCE	XX	RGW	GUIDE RAIL, W BEAM	OC	UCO	CONDUIT, OVERHEAD
<u>ب</u>	CBPR	BASELINE, PROJECTION		LTRC	TREE ROW. CONIFEROUS		RGWM	GUIDE RAIL, W BEAM, MEDIAN	E	UE	ELECTRIC LINE, UNDERGROUND
	DRAINAG			LTRD	TREE ROW, DECIDUOUS		RPB	PARKING BUMPER] <i>E</i> [UEH	ELECTRIC LINE, HANGING
CT.				LWH	WALL. H PILE		RRC	RAIL ROAD, CATENARY	OE	UE0	ELECTRIC LINE, OVERHEAD
ST	DCP	CULVERT PIPE	<u>ц </u>	LWR	WALL, RETAINING		RRER	RAIL ROAD, 3RD RAIL	0ET	UETO	ELECTRIC TRANSMISSION, OVERHE
	DCP_P	CULVERT PIPE (DIR)		LWK	WALL, RETAINING WALL, STONE					UESS	ELECTRIC, SUBSTATIONS
	DDG_P	DITCH, GRASS LINED		OW MAPF		╉╋	RRPLS_P	RAIL, PHOTO, LARGE SCALE	F0	UFO	FIBER OPTIC, UNDERGROUND
* *	DDP_P	DITCH, PAVED INVERT	п	1	1		RRPSS	RAIL, PHOTO, SMALL SCALE]F0[UFOH	FIBER OPTIC, HANGING
				MDL	DEED LINE				0F0	UF00	FIBER OPTIC, OVERHEAD
	DDS_P	DITCH, STONE LINED	PE	MEE	EASEMENT, EXISTING		RRS	RUMBLE STRIP	<i>G</i>	UG	GAS, UNDERGROUND
>	DFL_P	FLOW LINE	PE	MEP_P	EASEMENT, PERMANENT	<u> </u>	RRSLS_P	RAIL, SURVEY, LARGE SCALE]0[UGH	GAS, HANGING
	DSSD	SLOTTED DRAIN	APE	MEPA_P	EASEMENT, PERMANENT, APPROX.		RRSSS	RAIL, SURVEY, SMALL SCALE	OG	UGO	GAS, OVERHEAD
UD->>	DUD_P	UNDERDRAIN	TE	MET_P	EASEMENT, TEMPORARY		SIGNS		IC	UIC	INFORM CABLE, UNDERGROUND
	VIRONME		ATE	META_P	EASEMENT. TEMPORARY, APPROX.	**	SBLB	BILLBOARDS] <i>IC</i> [UICH	INFORM CABLE, HANGING
	EBLHS	BALE, STRAW	FEE	MF_P	FEE ACQUISITION, W/ ACCESS	• • •	SM	MULTIPLE POST	0	UO	OIL LINE, UNDERGROUND
	-		AFEE	MFA_P	FEE ACQUISITION, APPROXIMATE	©==========©	SS0	STRUCTURE, OVERHEAD]0[UOH	OIL LINE, HANGING
	ECT	CURTAIN, TURBIDITY		MFS_P	FEE ACQUISITION, SHAPE	Θ	SSOC	STRUCTURE, OVHD. CANTILEVER	€	UPBP	POLE, BRACE, PUSH BRACE
	EDMC	DAM, COFFER	FEE W/OA	MFW0A_P	FEE ACQUISITION, W/O ACCESS		STRIPIN	G		UPGW	POLE, GUY WIRE
	EDMEC_P	DAM, EARTHEN CHECK		MHA	HISTORICAL, ACQUISITION		STB*	BROKEN LINE	SA	USA	SANITARY SEWER, UNDERGROUND
	EDMGSC_F	DAM, GRAVEL BAG/SAND BAG CHECK	HB	MHB	HIGHWAY BOUNDARY		STDB*	DOUBLE BROKEN LINE]SA[USAH	SANITARY SEWER, HANGING
	EDM03C_F	DAM, GRAVEL BAG/ SAND DAG CHECK	AHB	MHBA	HIGHWAY BOUNDARY, APPROX.		STDL*	DOTTED LINE LONG		USAF	SANITARY SEWER, FORCE MAIN,
	EDMPC_P	DAM, PREFABRICATED CHECK		MHBW	HWY BOUNDARY, FACE OF WALL		STDS*	DOTTED LINE SHORT]SAF[USAFH	SANITARY SEWER. FORCE MAIN.
	EDUSC P			MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS		STFB*	FULL BARRIER LINE		UT	TELEPHONE, UNDERGROUND
	EDMSC_P	DAM, STONE CHECK		MJC	JURISDICTION, CITY		STH*	HATCH LINE		UTH	TELEPHONE, HANGING
+ + · · ·	EFNS	FENCE, SILT		MJCY	JURISDICTION, COUNTY		STPB*	PARTIAL BARRIER LINE	0T	UTO	TELEPHONE, OVERHEAD
	EFNSV	FENCE, SILT & VEGETATION		MJHD	JURISDICTION, HISTORIC DISTRICT		STRCT	ROUNDABOUT, CAT TRACKS	CTV	UTV	CABLE TV, UNDERGROUND
~~	EFNV	FENCE, VEGETATION		MJLL	JURIS., (GREAT, MILITARY) LOT LINE	****	STRYL	ROUNDABOUT, YIELD LINE	CTV[UTVH	CABLE TV, HANGING
AA	EWAA_P	WETLAND, ADJACENT AREA		MJN	JURISDICTION, NATION		STSB	STOP BAR			
FW	EWF	WETLAND, FEDERAL		MJPB	JURISDICTION, PUBLIC LANDS		STSE*	SOLID, EDGE		UTVO	CABLE TV, OVERHEAD
FWSW	EWFS	WETLAND, FEDERAL AND STATE		MJS	JURISDICTION, STATE				<i>UU</i>	UUU	UNKNOWN, UNDERGROUND
SW	EWM	WETLAND, MITIGATION AREA		MJT	JURISDICTION, TOWN		STXL	X WALK, LADDER LINE] <i>UU</i> [UUH	UNKNOWN, HANGING
SW	EWS	WETLAND, STATE		MJV	JURISDICTION, VILLAGE		STXLB	X WALK, LADDER BAR LINE	<i>0UU</i>	UUO	UNKNOWN, OVERHEAD
								<pre>* = W (WHITE) OR Y (YELLOW)</pre>	W	UW	WATER LINE, UNDERGROUND
				MPL	PROPERTY LOT LINE	TRA	FFIC CO] <i>w</i> [UWH	WATER LINE, HANGING
				MPLA	PROPERTY LOT LINE, APPROXIMATE				<i>OW</i>	UWO	WATER LINE, OVERHEAD

2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).

3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.

- PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS).
- MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.

6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

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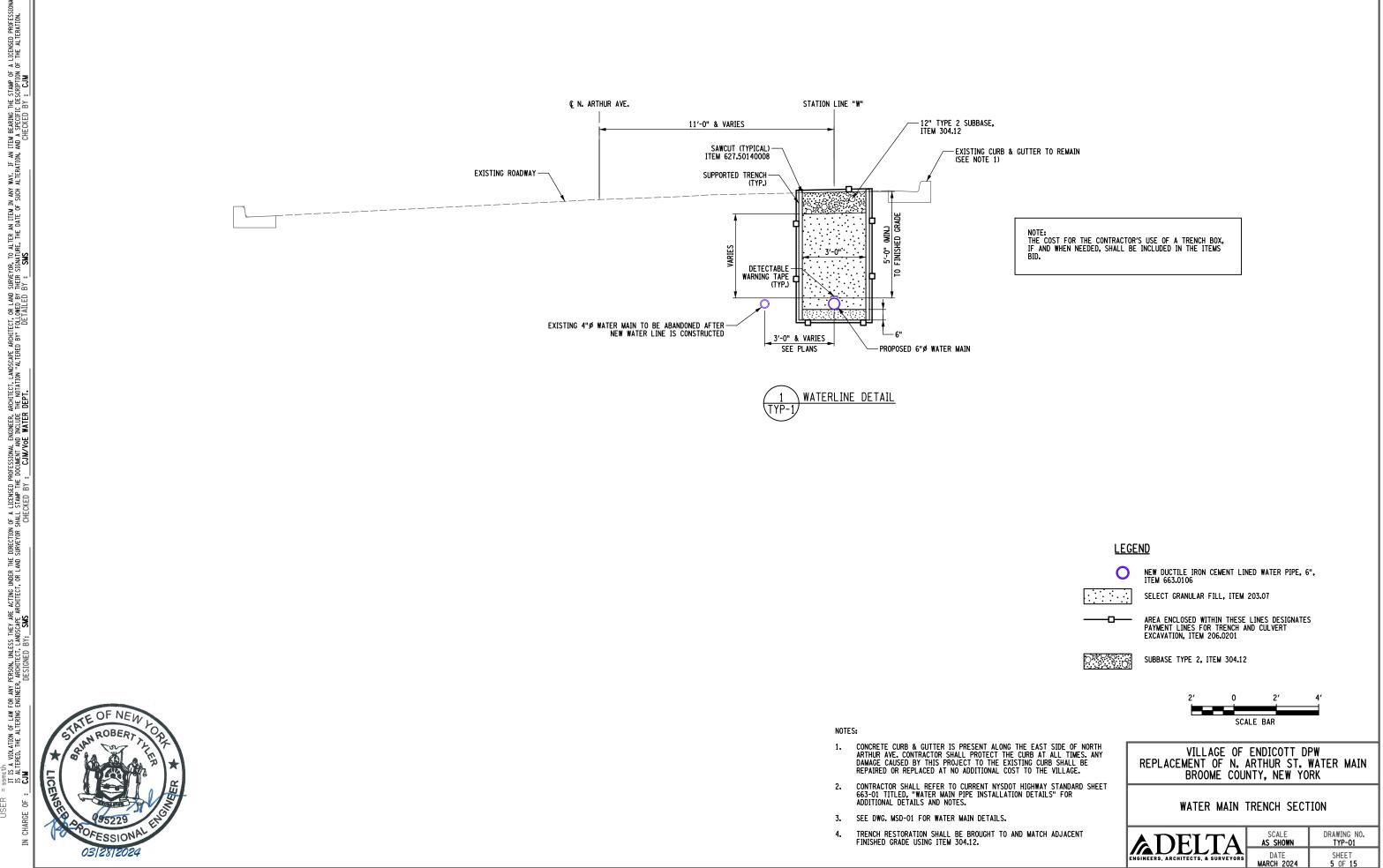
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VILLAGE OF ENDICOTT DPW REPLACEMENT OF N. ARTHUR ST. WATER MAIN BROOME COUNTY, NEW YORK

LEGEND AND LINE SYMBOLOGY

A DFITA	SCALE NONE	DRAWING NO. LEG-2
ENGINEERS, ARCHITECTS, & SURVEYORS	DATE March 2024	SHEET 4 OF 15



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SCOPE OF WORK

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- THE SCOPE OF WORK FOR THIS PROJECT IS THE CONSTRUCTION OF NEW WATER LINE FROM ITS DEAD END SOUTH OF JENNINGS STREET, TO THE INTERSECTION OF N. ARTHUR AVE, AND PINE STREET IN THE NORTH. THE PROPOSED WATER LINE, VALVE AND FITTING LOCATIONS ARE AS SHOWN ON THE PLANS. THE EXISTING WATER MAIN SHALL ABANDONED UPON COMPLETION OF NEW WATER MAIN INSTALLATION, AND SUBSEQUENT TESTING.
- 2. THE CONTRACTOR SHALL PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC AS NEEDED AND ALSO AS ORDERED BY THE ENGINEER.

GENERAL NOTES

- ALL DRIVEWAYS ARE TO REMAIN ACCESSIBLE AND UNDISTURBED. ANY DRIVEWAYS DAMAGED BY THE CONTRACTOR'S OPERATIONS DURING CONSTRUCTION, SHALL BE REPAIRED TO THEIR PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE VILLAGE. 1.
- CONTRACTOR SHALL NOTIFY UDIG NY NOT LESS THAN 48 HOURS PRIOR TO ANY SUBSURFACE CONSTRUCTION AT 811. 2.
- THE CONTRACTOR SHALL RESTORE AND REPAIR ANY GRADES, SOD, SLOPED OR VEGETATION DAMAGED DURING CONSTRUCTION, TO ITS PRE CONSTRUCTION CONDITION AOBE UNLESS 3. NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, QUANTITIES, AND FIELD CONDITIONS PRIOR TO BIDDING THE WORK OR ORDERING MATERIALS.
- ALL EXISTING TOPOGRAPHIC FEATURES AND UNDERGROUND UTILITIES ADJACENT TO THE WORK SHALL BE MAINTAINED IN THEIR CURRENT CONDITION UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE CONDITION AND LOCATION OF THOSE ITEMS IN THE FIELD PRIOR TO STARTING WORK, ANY ITEMS FOUND TO CONFLICT WITH THE WORK REQUIRED AS PART OF THIS CONTRACT, SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS. ANY ELEVATION DISCREPANCES WHICH WILL AFFECT THE WORK, SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER. COMMENCEMENT OF WORK WITHOUT ANY WRITTEN NOTIFICATION SHALL CONSTITUTE CONTRACTOR ACCEPTANCE OF THE EXISTING TOPOGRAPHY NDICATED ON THE DRAWINGS AS ACCURATE. NO ADJUSTMENT TO THE CONTRACT WILL BE MADE FOR DISCREPANCIES BROUGHT TO THE ENGINEER'S ATTENTION AFTER THE WORK HAS BEGUN. 5.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING A PORT-A-JOHN ON SITE FOR THE DURATION OF THE CONTRACT FOR USE BY ALL CONTRACTOR'S EMPLOYEES AND 6. SUB-CONTRACTORS, COST IS INCIDENTAL TO THE PROJECT.
- ALL IMPERVIOUS SURFACES (ASPHALT, COCNRETE, ETC.) IMPACTED BY TRENCH WORK SHALL BE SAW CUT. COST FOR SAWCUTTING PAVEMENT SHAL BE INCLUEDED IN THE PRICE BID FOR ITEM 627.50140008.

UTILITY NOTES

- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLACED ON THIS DRAWING FROM FIELD LOCATIONS, WHERE VISIBLE OR FROM RECORDED DRAWINGS PROVIDED TO THE UNDERSIGNED. THEREFORE, LOCATIONS SHOULD BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES OR UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN: FOR THIS REASON, UDIG NY SHALL BE CONTACTED A MINIMUM OF 48 HOURS PRIOR TO ANY UNDERGROUND EXCAVATION. 1.
- WATER VALVES SHALL BE ADJUSTED BY THE VILLAGE WATER DEPARTMENT. EFFORT TO BE COORDINATED BY THE CONTRACTOR WITH NOTIFICATION TO THE VILLAGE WITH A 2. MINIMUM OF 72 HOURS IN ADVANCE.

WATER MAIN PHASING

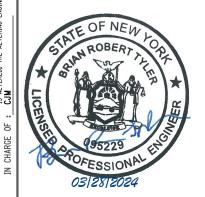
1. PHASING OF WORK SHALL BE SUCH WHICH MINIMIZES SERVICE INTERRUPTION TO CUSTOMERS

WATER MAINS AND VALVES

- KENNEDY HYDRANTS (YELLOW 4"/2½"), KENNEDY VALVES, AND DUCTILE CEMENT LINED WATER PIPE SHALL BE USED, UNLESS OTHERWISE APPROVED BY THE VILLAGE. 1.
- 2. CONCRETE THRUST BLOCKS TO BE USED AT ALL VALVE AND FITTINGS.
- 3. PIPE JOINTS WITHIN 8" OF A FITTING OR VALVE SHALL UTILIZE A GRIPPER CLAMP.
- 4. RISERS REQUIRED ON ALL VALVE BOXES.
- 5. DETECTABLE WARNING TAPE SHALL BE INSTALLED ON ALL NEW MAINS.

CONCRETE WASHOUT

ONE OR MORE FACILITIES MEETING THE REQUIREMENTS OF NYSDEC'S NEW YORK STATE 1. ONE OR MORE FACILITIES MEETING THE REQUIREMENTS OF NTSUEC'S NEW FORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AKA "THE BLUE BOOK", ARE REQUIRED ON THIS PROJECT SITE TO COLLECT CLEANING WATER AND WASTE FROM ALL CONCRETE WORK, COSTS TO CONSTRUCT THE FACILITYUES ARE TO BE INCLUDED IN THE LUMP SUM BID FOR THE CONTRACT, IF A FACILITY IS NOT CONSTRUCTED FOR THIS CONTRACT, ALL CONCRETE TRUCKS SHALL BE REQUIRED TO RETURN TO THE PLANT TO WASH OUT.



TESTING

- ALL PIPELINES CARRYING POTABLE WATER SHALL BE TESTED FOR STRENGTH AND TIGHTNESS AFTER INSTALLATION. ALL TESTING SHALL CONFORM TO AWWA C600, LATEST REVISION. ALL LEAKS AT JOINTS SHALL BE CORRECTED IN A MANNER SATISFACTORY TO THE ENGINEER, AND ANY DEFECTIVE PIPE SHALL BE REMOVED AND REPLACED WITH SOUND PIECES AT THE EXPENSE OF THE CONTRACTOR, AND THE LINE AGAIN TESTED.
- PRIOR TO BEGINNING A TEST, THE CONTRACTOR SHALL TAKE MEASURES TO BLEED ALL AIR FROM THE PIPELINE UNDER TEST. IF NECESSARY, TAPS SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE FOR BLEEDING AIR FROM THE HIGH POINTS IN THE LINE. 2.
- PRESSURE TEST: PIPE SHALL BE TESTED FOR STRENGTH AND TIGHTNESS UNDER A HYDROSTATIC PRESSURE OF 150 POUNDS PER SQUARE INCH, BASED ON THE ELEVATION OF THE LOWEST POINT OF THE LINE OR SECTION UNDER TEST. THIS PRESSURE SHALL BE APPLIED IN A MANNER SATISFACTORY TO THE ENGINEER AND SHALL BE MAINTAINED FOR A PERIOD OF AT LEAST ONE HOUR WITH ALL VALVES AND CONNECTIONS SHUT. THE TEST PRESSURE SHALL NOT VARY BY MORE THAN 15 PSI FOR THE DURATION OF THE TEST. ANY EXPOSED PIPE, FITTINGS, AND JOINTS SHALL BE EXAMINED CAREFULLY DURING THE TEST. ANY DAMAGED OR DEFECTIVE PIPE SHALL BE REPAIRED OR REPLACED. PRESSURE TESTS SHALL NORMALLY BE MADE BETWEEN GATE VALVES. INTERMEDIATE TESTS MAY BE MADE WITH THE CONSENT OF THE ENGINEER. 3.
- LEAKAGE TEST: CONCURRENTLY WITH THE PRESSURE TEST, A LEAKAGE TEST IS TO BE CONDUCTED IN A MANNER SATISFACTORY TO THE ENGINEER. THE PIPE SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE OF 150 POUNDS PER SQUARE INCH, BASED ON THE ELEVATION OF THE LOWEST POINT OF THE LINE OR SECTION UNDER TEST. THIS PRESSURE SHALL BE MAINTAINED FOR A PERIOD OF AT LEAST 2 HOURS, OR LONGER AS MAY BE DIRECTED BY THE ENGINEER. THE MINIMUM HYDROSTATIC PRESSURE ON THE PIPE SHALL BE NOT LESS THAN 150 POUNDS PER SQUARE INCH, BASED ON THE HIGHEST POINT OF THE LINE OR SECTION UNDER TEST.
- THE PERMISSIBLE LEAKAGE FOR A COMPLETED SECTION OF PIPELINE, INCLUDING SHORT LENGTHS, LINE VALVES, HYDRANT BRANCHES, FITTINGS AND SERVICE CONNECTION SHALL NOT EXCEED THE VALUES TABULATED BELOW. THE PERMISSIBLE LEAKAGE FOR A LINE OR SECTION, WHICH CONTAINS SEVERAL DIAMETERS OF PIPE, SHALL BE THE SUM OF THE ALLOWABLE LEAKAGE FOR EACH SIZE. 5.
- AT AN AVERAGE TEST PRESSURE OF 150 PSI, THE TEST LEAKAGE SHALL NOT EXCEED: PIPE SIZE: PERMISSBLE LEAKAGE PER 1000 FEET (GAL/HR) 0.55

CHLORINATING AND FLUSHING

- BEFORE THE USE OF WATER IS PERMITTED FROM ANY PORTION OF NEWLY CONSTRUCTED WATERLINE, IT SHALL BE CHLORINATED AND FLUSHED IN THE PRESENCE OF AND AS DIRECTED BY THE ENGINEER. 1.
- PRIOR TO CHLORINATION, ALL DIRT AND FOREIGN MATTER SHALL BE REMOVED BY A THOROUGH FLUSHING OF THE NEWLY LAID PIPELINE. THE FLUSHING VELOCITY SHALL BE A MINIMUM OF 2.5 FT./SEC. THE CONTRACTOR SHALL ASSUME THAT THE RATE OF FLOW AVAILABLE FROM THE EXISTING WATER SYSTEM IS MINIMAL, UNLESS OTHER WISE STATED IN THE INFORMATION FOR BIDDERS AND SHALL PLAN HIS FLUSHING OPERATION ACCORDINGLY. THE CONTRACTOR SHALL CONFER WITH THE RESPONSIBLE PERSON IN CHARGE OF THE MUNICIPAL OR PRIVATE WATER SYSTEM REGARDING NOTIFICATION OF WATER USERS BEFORE COMMENCING THE FLUSHING OPERATIONS.
- THE CONTRACTOR SHALL CHLORINATE THE NEW WATER MAINS BY THE USE OF LIQUID CHLORINE GAS-WATER 3. MIXTURE ORBY USE OF 15% LIQUID SODIUM HYPOCHLORITE, OR OTHER APPROVED METHODS.
- LIQUID CHLORINE APPLICATION:

LIQUID CHLORINE AFFLICATION: A CHLORINE GAS-WATER MIXTURE SHALL BE APPLIED BY MEANS OF A SOLUTION FEED CHLORINATING DEVICE AT THE BEGINNING OF THE NEW PIPELINE OR ANY VALVED SECTION THEREOF, THROUGH A CORPORATION STOP INSERTED IN THE HORIZONTAL AXIS OF THE PIPE. THE RATE OF CHLORINE GAS-WATER MIXTURE FLOW SHALL BE INSERTED AN THE HURIZONIAL AXIS OF THE PIPE. THE RATE OF CHLUKINE GAS-MATER MIAIUME FLOW SHALL BE IN SUCH PROPORTION TO THE RATE OF WATER ENTERING THE PIPE THAT THE CHLORINE CONCENTRATION OF THE WATER SHALL BE RETAINED IN THE PIPE AT LEAST 24 HOURS UNLESS OTHERWISE DIRECTED BY THE ENCINEER. THE CHLORINE RESIDUAL SHALL NOT BE LESS THAN 50 PPM AT ANY POINT IN THE PIPE AT THE END OF THE

- 15% LIQUID SODIUM HYPOCHLORITE: THE CONTRACTOR MAY SUBSTITUTE AS AN ALTERNATIVE FOR LIQUID CHLORINE A 15% LIQUID SODIUMHYPOCHLORITE SOLUTION, WHICH SHALL BE INJECTED OR PUMPED INTO THE NEWLY LAID PIPE UNDER CONDITIONS HEREINBEFORE SPECIFIED FOR LIQUID CHLORINE APPLICATION. в.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF WATER FOR TESTING AND FLUSHING. ALL TESTING TO BE OMPLETED IN ACCORDANCE WITH NYS. DEPARTMENT OF HEALTH REGULATIONS. 4.
- CHLORINATION AND FLUSHING OF WATER MAINS ARE TO BE FULLY COORDINATED WITH THE ENGINEER, AND THE VILLAGE OF ENDICOTT WATER DEPARTMENT.
- FOLLOWING CHLORINATION, ALL TREATED WATER SHALL BE THOROUGHLY FLUSHED FROM THE NEW LAID PIPELINE AT ITS EXTREMITIES UNTIL THE REPLACEMENT WATER THROUGHOUT ITS LENGTH SHALL, UPON TEST, BOTH CHEMICALLY AND BACTERIOLOGICALLY, BE PROVED EQUAL TO THE WATER QUALITY SERVED TO THE PUBLIC FROM THE EXISTING WATER SUPPLY SYSTEM, AND APPROVED BY THE PUBLIC HEALTH AUTHORITY HAVING JURISDICTION. ALL SUCH TESTS SHALL BE PERFORMED BY A QUALIFED INDEPENDENT 3RD PARTY AND SUBJECT TO THE ENGINEER'S APPROVAL. THE COST OF SUCH TESTS SHALL BE AT THE CONTRACTOR'S EXPENSE. TWO BACTERIOLOGICAL TESTS SHALL BE TAKEN FOR 2 CONSECUTIVE DAYS.
- THE CONTRACTOR SHALL NOT BE ALLOWED TO DISCHARGE CHLORINATED WATER. THE CONTRACTOR SHALL NEUTRALIZE THE CHLORINATED WATER USED FOR THE DISINFECTION OF THE WATER MAIN TO A MAXIMUM RESIDUAL OF 0.5 PPM WITH NYSDOH APPROVED CHEMICALS, OR THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE CHLORINATED WATER TO BE TANKED AWAY AND DISPOSED OF.

SPECIFICATIONS FOR WATER WORKS MATERIALS

IF PROPOSED EQUIVALENT OR SUBSTITUTE MATERIALS ARE INSTALLED THAT ARE NOT PRE-APPROVED. THE VILLAGE OF ENDICOTT RESERVES THE RIGHT TO STOP CONSTRUCTION (AND NOT PROVIDE WATER SERVICE UNTIL SUITABLE MATERIALS ARE INSTALLED) OR ACCEPT THE WORK.

CONTRACTORS MUST SUPPLY THE VILLAGE OF ENDICOTT WITH A LIST OF ALL MATERIALS SPECIFICATIONS (MAKE, MODEL, SIZE, QUANTITY, ETC.) ON PROJECTS REQUIRING AS-BUILT DRAWINGS. REFER TO VILLAGE OF JOHNSON CITY AS-BUILT DRAWING REQUIREMENTS FOR COMPLETE REQUIREMENTS.

MAINS, FITTINGS & APPURTENANCES LARGER THAN 2" DIAMETER

- 1.
- APPROVED EQUAL.
- VILLAG OF ENDICOTT VILLAGE OF ENDICOTT.
- 6.
- 8.
- 9. PER ASTM E593 AND E594.
- 10.
- 11.
- 12.
- 13. JOINT RESTRAINTS.
- 15.

NOTE: ALL REFERENCE TO STANDARD ANSI, AWWA OR ASTM SPECIFICATIONS SHALL BE THE LATEST EDITION.

CONTRACTORS MUST ADHERE TO SPECIFIC MATERIALS AS INDICATED BELOW OR OBTAIN WRITTEN VILLAGE OF ENDICOTT APPROVAL FOR PROPOSED EQUIVALENTS OR SUBSTITUTIONS PRIOR TO INSTALLATION.

WATER MAINS/SERVICES (LARGER THAN 2" DIAMETER): DUCTILE IRON, C111 (PUSH-ON JOINT); C104 CEMENT LINING (INSIDE) AND ASPHALTIC COATINGS (OUTSIDE) AND TWO (2) BRASS WEDGES PER JOINT. -MAIN PRESSURE (OR POTENTIAL PRESSURE) GREATER THAN OR EQUAL TO 100 PSI: CLASS 52 PER SPECIFICATION AWWA151

CAST COUPLINGS: STRAIGHT COUPLINGS; MANUFACTURER: SMITH-BLAIR SERIES 441 OR APPROVED EQUAL. ALL HARDWARE SHALL BE 304 SS PER ASTM F593 AND F594.

FITTINGS: CAST OR DUCTILE IRON PER SPECIFICATIONS AWWA C110; C153; C111 (MECHANICAL JOINT); C104 CEMENT LINING (INSIDE) AND ASPHALTIC COATINGS (OUTSIDE) WITH TWO (2) EACH MECHANICAL JOINT RETAINER GLANDS AND BOLT KITS. ALL HARDWARE SHALL BE 304 SS PER ASTM F593 AND F594. CASING SPACERS MANUFACTUREDBY CCI PIPELINE SYSTEMS OR

FITTINGS (HYDRANT): IN ADDITION TO "FITTINGS" SPECIFICATION, HYDRANT TEES SHALL BE ANCHORING TYPE; MANUFACTURER: KENNEDY OR VILLAGE OF ENDICOTT APPROVED EQUAL. ALL HARDWARE SHALL BE 304 SS PER ASTM F593 AND F594.

HYDRANTS: AWWA C502, C111 (MECHANICAL JOINT CONNECTION - 6"); OPEN COUNTER-CLOCKWISE; ALL HYDRANT OPERATING AND CAP NUTS WILL BE 11/2" PENTAGON, 51/2" BURY; TWO (2) 21/2" AND ONE (1) 5" STORZ OUTLET; 51/4" BOTTOM VALVE OPENING. ALL HARDWARE SHALL BE 304 SS PER ASTM F593 AND F594. -VILLAGE OF JOHNSON CITY HYDRANTS TO BE PAINTED YELLOW WITH BLACK BONNET AND NOZZLE CAPS. -HYDRANT THREAD AND OPERATING NUTS SHALL CONFIRM TO "WHITESTOWN", OR OTHER THREADING AS APPROVED BY THE WILLAG OF LOWINGTON.

ACCEPTABLE MODELS: CLOW MEDAILLION, NO OTHER HYDRANT MANUFACTURERS OR MODELS WILL BE ACCEPTED BY THE

HYDRANT EXTENSIONS: ALL COMPONENTS OF THE FIVE HYDRANT EXTENSION KIT SHALL BE DESIGNED FOR, AND PROPERLY FIT, THE FIRE HYDRANT. NEITHER THE EXTENSION KIT NOR ANY COMPONENT OF THE KIT SHALL DIMINISH THE OPERATING EFFICIENCY OR SERVICE LIFE OF THE FIRE HYDRANT OR WHICH THEY ARE ATTACHED. ALL COMPONENTS SHALL CONFORM TO ANSI/AWWA CSO2. FIRE HYDRANT EXTENSION KITS SHALL INCLUDE THE APPROPRIATE QUANTITY OF BARRELS, FLANGES, COUPLINGS, STEMS OR RODS, GASKETS, LUBRICANT AND HARDWARE TO COMPERT THE INSTALLATION. ALL HARDWARE SHALL BE 304 SS PER ASTM F593 AND F 594. HYDRANT DRAIN HOLES TO BE PLUGGED WHERE SEASONAL HIGH GROUNDWATER MAY EXIST AND THAT LOCAL FIRE DEPARTMENT BE NOTIFIED OF THE PLUGGED DRAINS.

MECHANICAL JOINT RESTRAINTS, BOLT-THROUGH (FOSTER ADAPTER): DUCTILE IRON CONFORMING TO ANSI/AWWA C153/A21.53 (CURRENT REVISION). FUSION BONDED EPOXY COATED. MECHANICAL JOINT (MJ) VALVES AND FITTINGS SHALL BE CONNECTED USING BOLT-THROUGH POSITIVE RESTRAINT MECHANISM MANUFACTURED OF DUCTILE IRON CONFORMING TO ASTM A 80-55-06. THE POSITIVE RESTRAINT DEVICE SHALL CONNECT THE VALVES AND/OR FITTINGS AT A LINEAR DISTANCE NOT TO EXCEED ONE (1) INCH AND WITHOUT ATTACHMENT TO PIPE. THE BOLT-THROUGH MJ POSITIVE RESTRAINING DEVICE SHALL BE SUPPLIED WITH ASPHALTIC/EPOXY COATINGS IN ACCORDANCE WITH ANSI/AWWA (153/A21.53 AND ANSI/AWWA (104/A21.4 AND SIZED TO BE USED WITH STANDARD MECHANICAL JOINT FITTINGS (AWWA (153/A21.53) AND ANSI/AWWA (104/A21.4 AND SIZED TO BE USED WITH STANDARD MECHANICAL JOINT FITTINGS (AWWA (157.401.00 RC)) AVLVES, THE DEVICE SHALL HAVE A MINIMUM WORKING PRESSURE RATING OF 350 PSI. MANUFACTURER; INFACT CORPORATION OR APPROVED EQUAL. T-BOLT HARDWARF SHALL RE SAGA SE PER ASTM F593 AND F594. ARDWARE SHALL BE 304 SS PER ASTM F593 AND F594.

RETAINER GLANDS: MANUFACTURER: FORD, UNI-FLANGE WEDGE ACTION RETAINER FOR DUCTILE IRON PIPE (SERIES 1400); EBAA "MEGA LUG" (SERIES 1100); OR APPROVED EQUAL (SET SCREW NOT ACCEPTABLE). ALL RETAINER GLANDS SHALL INCLUDE APPROPRIATE RUBBER AND BOLT KIT. T-BOLT HARDWARE SHALL BE 304 SS PER ASTM F593 AND F594.

TAPPING SLEEVES AND TAPPING VALVES: CLOW F-5205 AND F-5093 OR APPROVED EQUAL. ALL HARDWARE SHALL BE 304 SS

TAPPING SLEEVES AND TAPPING VALVES, FAST-STYLE: FORD STYLE FAST STAINLESS STEEL SLEEVE WITH STAINLESS STEEL FLANCE AND RESILIENT WEDGE GATE VALVES, OR APPROVED EQUAL (FURNISHED AND INSTALLED BY THE MVWA PER ESTABLISHED FEE SCHEDULE). ALL HARDWARE SHALL BE 304 SS PER ASTM F593 AND F594.

VALVES: GATE VALVES (RESILIENT WEDGE), AWWA C509;C515; C111 (MECHANICAL JOINT); OPEN CLOCKWISE; MANUFACTURER: KENNEDY OR APPROVED EQUAL WITH TWO (2) EACH MECHANICAL JOINT RETAINER GLANDS AND BOLT KITS. ALL EXPOSED HARDWARE SHALL BE 304 SS PER ASTM F593 AND F594.

VALVE BOXES: MANUFACTURER; BINGHAM TAYLOR OR APPROVED EQUAL. RISERS SHALL BE PROVIDED WITH ALL BOXES.

THRUST BLOCKING SHALL BE USED FOR ALL MECHANICAL JOINT DIRECTIONAL CHANGE FITTINGS IN ADDITION TO MECHANICAL

THE MATERIALS USED SHALL BE IN CONFORMANCE WITH VILLAGE OF ENDICOTT SPECIFICATIONS OF MATERIALS.

THE CONTRACTOR SHALL PRESSURE TEST THE SERVICE TO 150% OF NORMAL SYSTEM PRESSURE OR 150PSI, WHICHEVER IS BY VILLAGE PERSONNEL BEFORE BACKFILLING.

ONCE THE PRESSURE TEST IS APPROVED BY THE VILLAGE, THE CONTRACTOR MUST DISINFECT THE SERVICE IN A MANNER REQUIRED BY THE NYS DEPARTMENT OF HEALTH, AT A MINIMUM, COMPLYING WITH AWWA STANDARD C651. THE MWWA WILL THEN DRAW A SAMPLE AND PERFORM A BACTERIAL TEST AT THE COST PER THE ESTABLISHED FEE SCHEDULE. ONCE ALL TESTING IS APPROVED, AND APPROPRIATE METERING AND/OR BACKFLOW PREVENTER INSTALLED, THE SERVICE MAY BE TURNED

VILLAGE OF ENDICOTT DPW REPLACEMENT OF N. ARTHUR ST. WATER MAIN BROOME COUNTY, NEW YORK

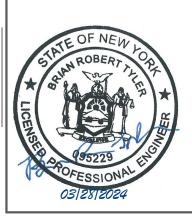
GENERAL NOTES

& DFI TA	SCALE NONE	DRAWING NO. GN-01
ENGINEERS, ARCHITECTS, & SURVEYORS	DATE MARCH 2024	SHEET 6 OF 15

ROADWAY ALIGNMENT CONTROL	6" WATER MAIN ALIGNMENT CONTROL	
PROJECT NAME: ARTHUR AVE DESCRIPTION: HORIZONTAL ALIGNMENT NAME: ARTHUR AVE DESCRIPTION: STYLE: AC P	PROJECT NAME: ARTHUR AVE DESCRIPTION: HORIZONTAL ALIGNMENT NAME: WATER MAIN ALG DESCRIPTION: STYLE: AC P	
ELEMENT: LINEAR STATION NORTHING EASTING	ELEMENT: LINEAR	ASTING
POB (1) A 10+00.00 770053.0270 967132.2731 EQNBK () 0+00.00 770053.0270 967132.2731 EQNAHD () A 10+00.00 770053.0270 967132.2731 PC (2) A 13+26.63 770379.1780 9671132.6731 PC (2) A 13+26.63 770379.1780 967114.5632 TANGENT DIRECTION: 356°53'30.8911" 326.63 ELEMENT: CIRCULAR 226.63	POB (6) W 20+00.00 770059.1526 967144. EQNBK () 0+00.00 770059.1526 967144. EQNAHD () W 20+00.00 770059.1526 967144. PI (7) W 20+04.50 770063.6475 967144. TANGENT DIRECTION: 357°17′25.2111" TANGENT LENGTH: 4.50 ELEMENT: LINEAR	5884 5884
PI () A 13+26.63 770379.1780 967114.5632 PI () A 15+91.41 770643.5668 967100.2070 CC (4) 780138.7294 1146849.7883 PT (5) A 18+56.19 770907.9966 967086.6287 RADIUS: 180000.00	ELEMENT: LINEAR PI (7) W 20+04.50 770063.6475 967144. PI (8) W 20+39.59 770098.7008 967142. TANGENT DIRECTION: 357°17'25.2111" TANGENT LENGTH: 35.09 ELEMENT: LINEAR	
DELTA: 0°10'06.8266" RIGHT DEGREE OF CURVATURE(ARC): 0°01'54.5916" LENOTH: 229.56 TANGENT: 264.78 CHORD: 529.56	PI (8) W 20+39.59 770098.7008 967142. PI (9) W 20+51.63 770110.7269 967142.1 TANGENT DIRECTION: 357°17′25.2111" TANGENT LENGTH: 12.04 ELEMENT: LINEAR	
MIDDLE ORDINATE: 0.19 EXTERNAL: 0.19 TANGENT DIRECTION: 356°53'30.8911" RADIAL DIRECTION: 86°53'30.8911" CHORD DIRECTION: 356°58'34.3044"	PI (9) W 20+51.63 770110.7269 967142. PI (10) W 21+06.96 770165.9910 967139. TANGENT DIRECTION: 357°17'25.2111" TANGENT LENGTH: 55.33 ELEMENT: LINEAR	
RADIAL DIRECTION: 87°03′37.7177" TANGENT DIRECTION: 357°03′37.7177" ELEMENT: LINEAR PT (5) A 18+56.19 770907.9966 967086.6287 POE (3) A 20+29.54 771081.1180 967077.7390	PI (10) W 21+06.96 770165.9910 967139. PI (11) W 21+18.37 770177.3941 967138. TANGENT DIRECTION: 357°17'25.2111" TANGENT LENGTH: 11.42 ELEMENT: LINEAR	
TANGENT DIRECTION: 357°03'37.7177" TANGENT LENGTH: 173.35	PI (11) W 21+18.37 770177.3941 967138. PI (12) W 21+50.00 770208.9842 967137. TANGENT DIRECTION: 357°17'25.2111" TANGENT LENGTH: 31.63 ELEMENT: LINEAR	
	PI (12) W 21+50.00 770208.9842 967137. PI (13) W 22+23.29 770282.0668 967132.0 TANGENT DIRECTION: 355°43'50.7197" TANGENT LENGTH: 73.29 ELEMENT: LINEAR	
	PI (13) W 22+23.29 770282.0668 967132. PI (14) W 22+56.59 770315.3188 967130.1 TANGENT DIRECTION: 356°48'25.3886" TANGENT LENGTH: 33.30 ELEMENT: LINEAR	
	PI (14) W 22+56.59 770315.3188 967130.1 PI (15) W 22+64.58 770323.2985 967129.7 TANGENT DIRECTION: 356°48'05.3614" TANGENT LENGTH: 7.99 ELEMENT: LINEAR	
	PI (15) W 22+64.58 770323.2985 967129. PI (16) W 23+24.21 770382.8405 967126. TANGENT DIRECTION: 356°50'20.5048" TANGENT LENGTH: 59.63 ELEMENT: LINEAR	
	ELEMENT: LINEAR PI (16) W 23+24.21 770382.8405 967126. PI (17) W 23+81.42 770439.9574 967123. TANGENT DIRECTION: 356°50'37.5146" TANGENT LENGTH: 57.20 ELEMENT: LINEAR	
	PI (17) W 23+81.42 770439.9574 967123. PI (18) W 24+18.04 770476.5193 967121.7 TANGENT DIRECTION: 356°40′07.0413" TANGENT LENGTH: 36.62	
	ELEMENT: LINEAR PI (18) W 24+18.04 770476.5193 967121.1 PI (19) W 25+01.22 770559.5799 967116.7 TANGENT DIRECTION: 356°56'40.6438" TANGENT LENGTH: 83.18 ELEMENT: LINEAD	
	ELEMENT: LINEAR PI (19) W 25+01.22 770559.5799 967116. PI (20) W 25+03.65 770562.0037 967116.6 TANGENT DIRECTION: 356°56'40.6438" TANGENT LENGTH: 2.43 ELEMENT: LINEAR	7411 6117
	PI (20) W 25+03.65 770562.0037 967116.6 PI (21) W 25+44.60 770602.9061 967114.5 TANGENT DIRECTION: 357°06′43.7608" TANGENT LENGTH: 40.95	
OP.	ELEMENT: LINEAR PI (21) W 25+44.60 770602.9061 967114. PI (22) W 25+90.07 770648.3207 967112. TANGENT DIRECTION: 357°16′50.5294" TANGENT LENGTH: 45.47	5484 3914
₩ ★	ELEMENT: LINEAR PI (22) W 25+90.07 770648.3207 967112. PI (23) W 26+17.00 770675.2185 967111.1 TANGENT DIRECTION: 357°16'50.5294" TANGENT LENGTH: 26.93 ELEMENT: LINEAR	
E CONTRACTOR OF	PI (23) W 26+17.00 770675.2185 967111. PI (24) W 26+72.24 770730.3816 967108.2 TANGENT DIRECTION: 356°59'04.4769" TANGENT LENGTH: 55.24	
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ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSI THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. DEFT. CHECKED BY : SMS IGINEER, A Include Water SBR SBR LICENSED PROFESSIONAL STAMP THE DOCUMENT AI CKED BY = CJM/VC OF A SHALL DIRECTION FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND DESIGNED BY: SMS 300 of E = 1:\2023\2023.561.001 Trans - Town o E = 3/28/2024 II:0:04 AM ? = ssmth II is A VIOLATION OF LAW FOR ANY PERSON. IS A TIFRED. THE ALTERING ENGINEER, ACHIT IS ALTERED. THE ALTERING ENGINEER, ACHIT E NAME DATE USER Ч 공 N

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6" WATER MAIN ALIGNMENT CONTROL (CONT'D)

PROJECT NAME: ARTHUR AVE

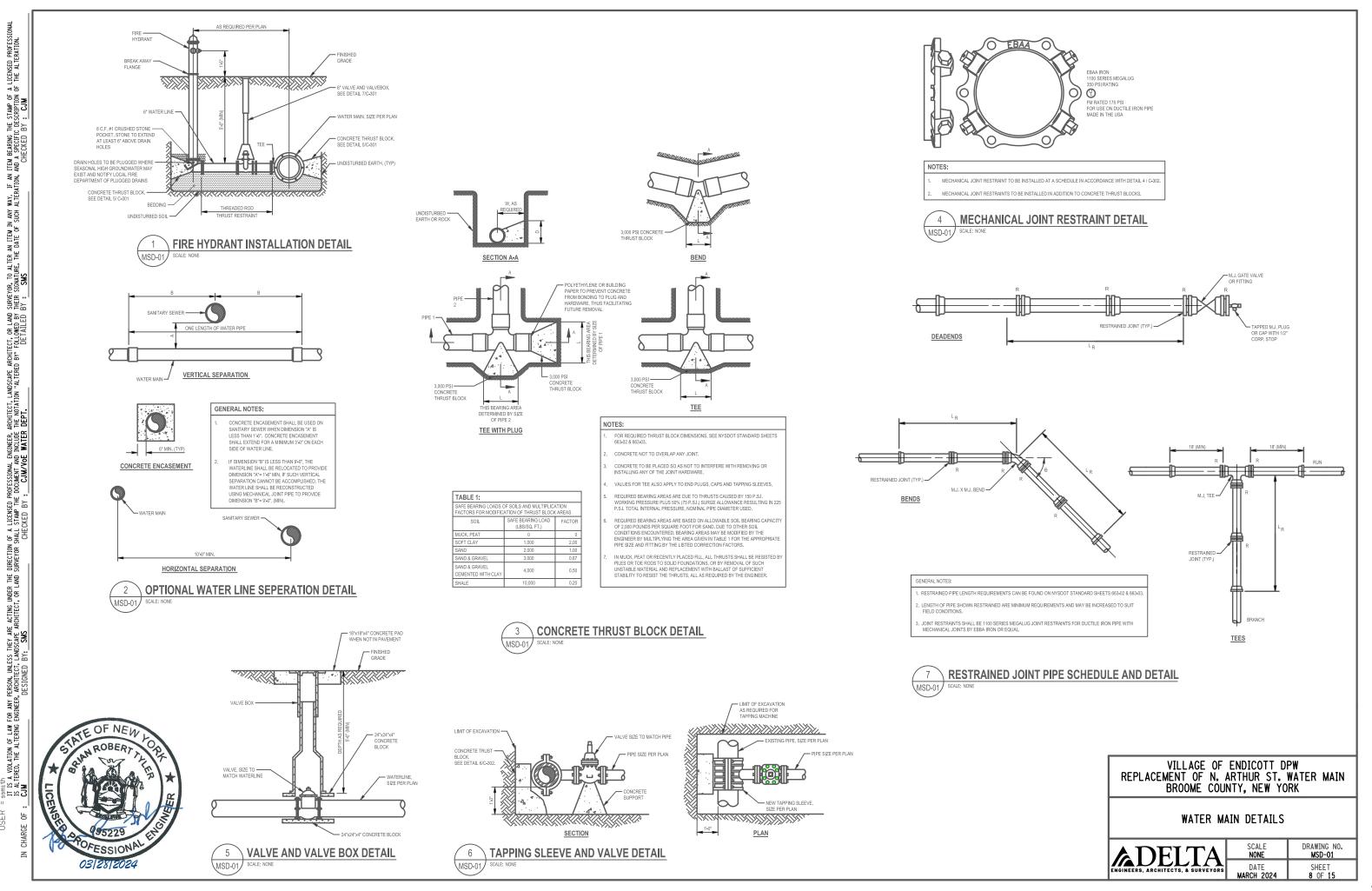
DESCRIPTION: HORIZONTAL ALIGNMENT NAME: WATER MAIN ALG

DESCRIPTION:	TER MAIN ALG		
STYLE: A	C P STATION	NORTHING	EASTING
ELEMENT: LINEAR PI (24) PI (25) TANGENT DIRECTION: TANGENT LENGTH: ELEMENT: LINEAR	W 26+72.24 W 27+23.72 356°49′14.5367" 51.49	770730.3816 770781.7885	967108.2080 967105.3525
PI (25) PI (26) TANGENT DIRECTION: TANGENT LENGTH:	W 27+23.72 W 27+29.63 356°41′50.1718″ 5.91	770781.7885 770787.6911	967105.3525 967105.0119
ELEMENT: LINEAR PI (26) PI (27) TANGENT DIRECTION: TANGENT LENGTH:	W 27+29.63 W 27+73.87 356°41′50.1718" 44.24	770787.6911 770831.8580	967105.0119 967102.4631
ELEMENT: LINEAR PI (27) PI (28) TANGENT DIRECTION: TANGENT LENGTH:	W 27+73.87 W 27+82.60 356°41′50.1718" 8.73	770831.8580 770840.5738	967102.4631 967101.9602
ELEMENT: LINEAR PI (28) PI (29) TANGENT DIRECTION: TANGENT LENGTH:	W 27+82.60 W 28+22.80 356°41′50.1718" 40.19	770840 . 5738 770880 . 7020	967101.9602 967099.6445
ELEMENT: LINEAR PI (29) PI (30) TANGENT DIRECTION: TANGENT LENGTH:	W 28+22.80 W 28+68.74 356°43′26.7073″ 45.94	770880.7020 770926.5674	967099.6445 967097.0192
ELEMENT: LINEAR PI (30) PI (31) TANGENT DIRECTION: TANGENT LENGTH: ELEMENT: LINEAR	W 28+68.74 W 28+74.50 356°48′48.8334″ 5.76	770926.5674 770932.3181	967097.0192 967096.6991
ELEMENT: LINEAR PI (31) PI (32) TANGENT DIRECTION: TANGENT LENGTH: ELEMENT: LINEAR	W 28+74.50 W 28+79.43 311°48′48.8334″ 4.93	770932 . 3181 770935 . 6070	967096.6991 967093.0224
PI (32) PI (33) TANGENT DIRECTION: TANGENT LENGTH: ELEMENT: LINEAR	W 28+79.43 W 29+73.43 357°04′17.5051" 94.00	770935 . 6070 771029 . 4814	967093.0224 967088.2202
ELEMENT: LINEAR PI (33) PI (34) TANGENT DIRECTION: TANGENT LENGTH: ELEMENT: LINEAR	W 29+73.43 W 29+96.29 357°04′17.5051" 22.86	771029.4814 771052.3095	967088.2202 967087.0524
PI (34) POE (35) TANGENT DIRECTION: TANGENT LENGTH:	W 29+96.29 W 29+98.59 312°04′17.5051" 2.30	771052.3095 771053.8535	967087.0524 967085.3420

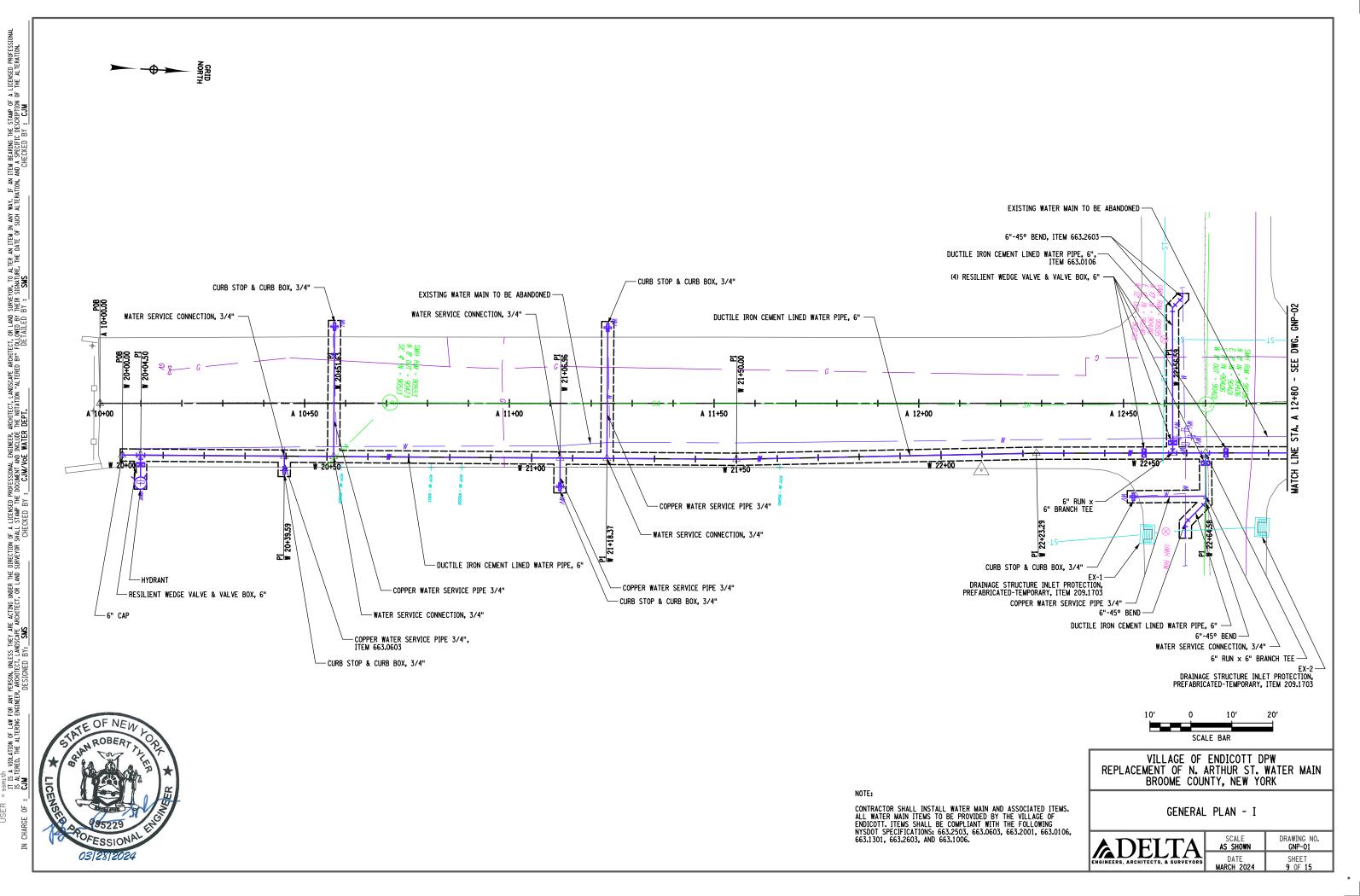
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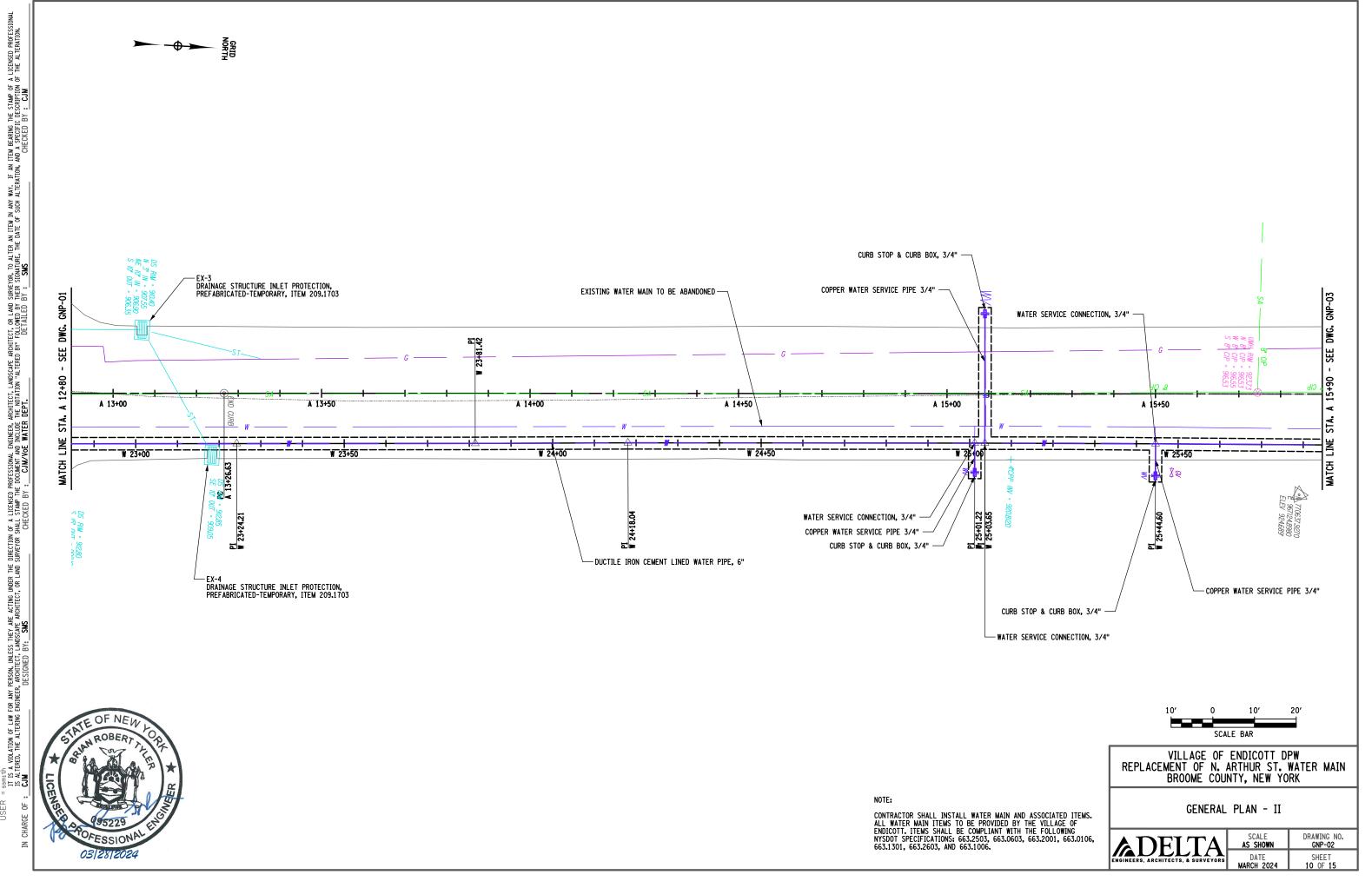
BENCHMARK DATA WILL BE PROVIDED TO THE CONTRACTOR THAT IS AWARDED THE PROJECT.

VILLAGE OF ENDICOTT DPW REPLACEMENT OF N. ARTHUR ST. WATER MAIN BROOME COUNTY, NEW YORK ALIGNMENT CONTROLS SCALE DRAWING NO. **ADELTA** NONE ALG-01 DATE SHEET OF 15 GINEERS, ARCHITECTS, & SURVEYOR MARCH 2024

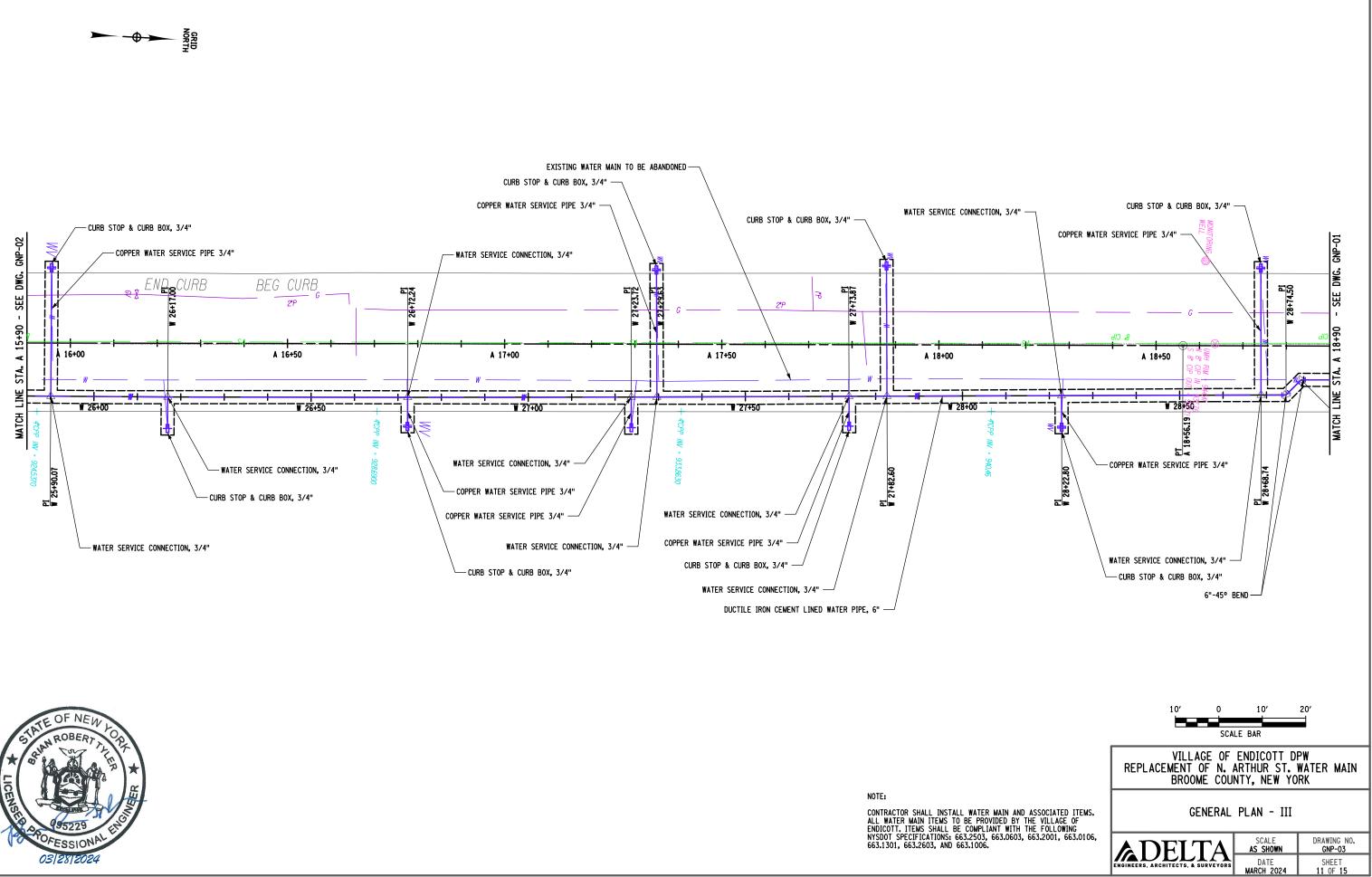


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ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY MAY. IF AN ITEM BEARNO THE STAMP OF A LICENSED PROFESSI THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCARPTION OF THE ALTERATION. DEFT. CHECKED BY : SMS CHECKED BY : CJM

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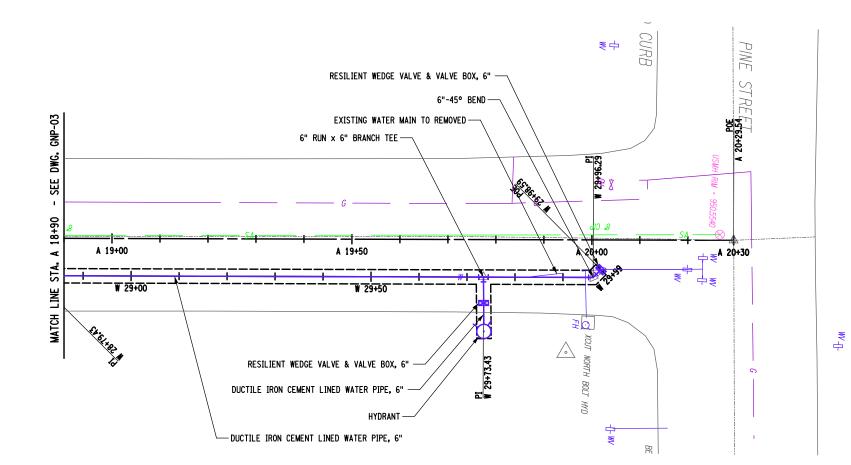
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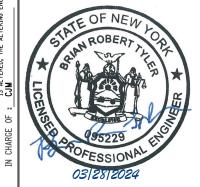
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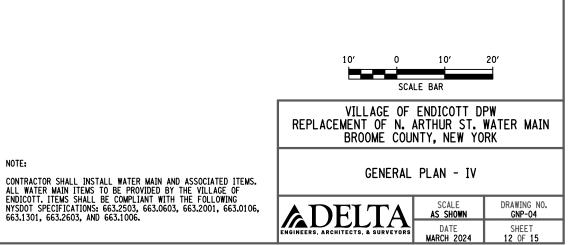
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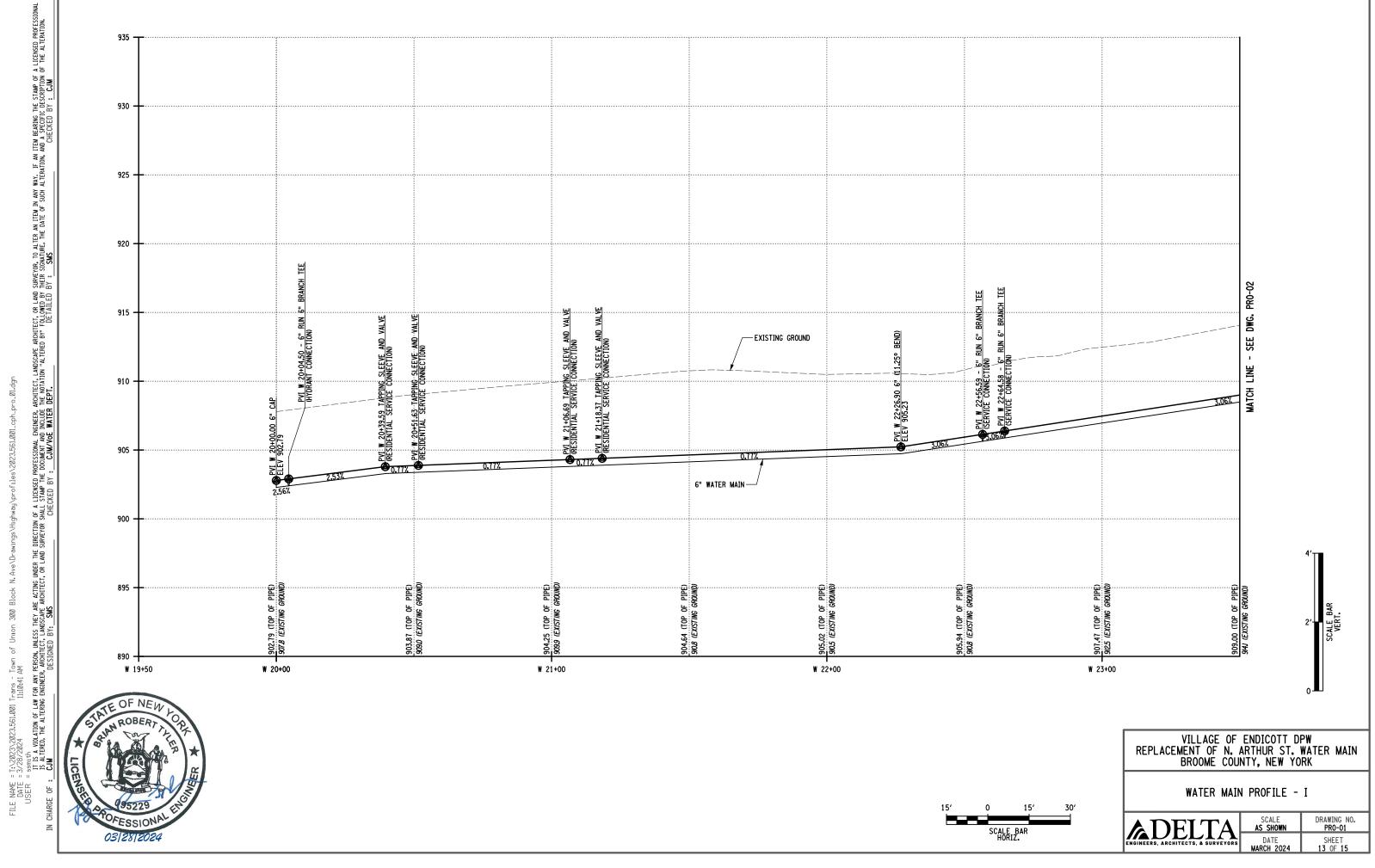
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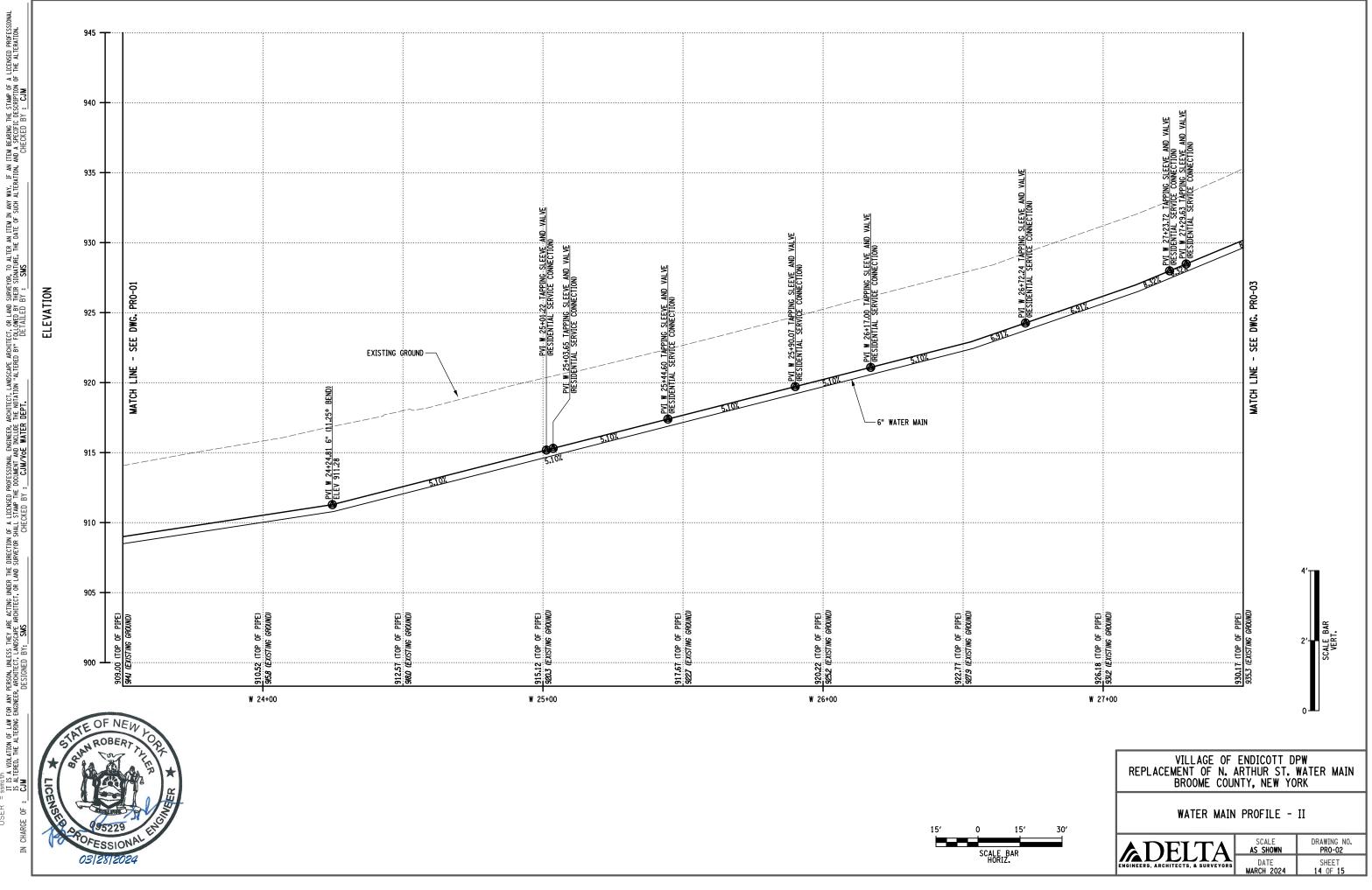






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