ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

BISHOP ROAD WATERMAIN

JEFFERSON TOWNSHIP

OHIO 811 DESIGN SERIAL NUMBER & UTILITY LIST:

XX - STATE ROUTE 534

OHIO UTILITY PROTECTION SERVICE: 106 WEST RYEN, ROOM 427 YOUNGSTOWN, 44051 (800) 362-2764

CLEVELAND ELECTRIC ILLUMINATING CO: 2210 SOUTH RIDGE ROAD ASHTABULA, OHIO 44004

THE EAST OHIO GAS COMPANY: 1010 WEST 30TH STREET ASHTABULA, OHIO 44004 (440) 992-5100

ALL-TEL: 360 HIGHLAND ROAD MACEDONIA, OHIO 44067 (800) 782-6206

SPRINT: PO BOX 3555 MANSFIELD, OHIO 44907 (800) 786-6272

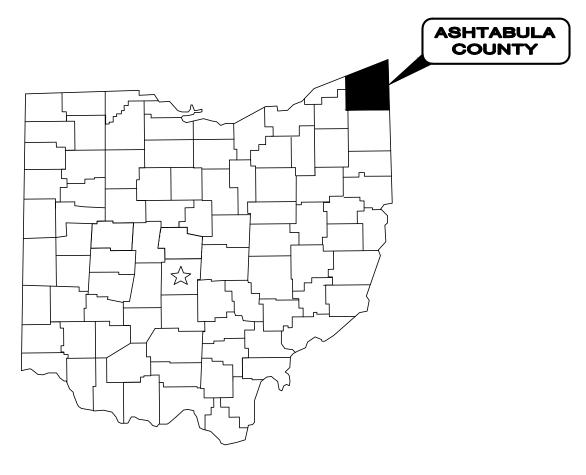


ENVIRONMENTAL SERVICES: 36 W. WALNUT STREET JEFFERSON, OHIO

(440) 576-3722 PHONE (440) 576-3781 FAX

2904 STATE ROAD ASHTABULA, OHIO

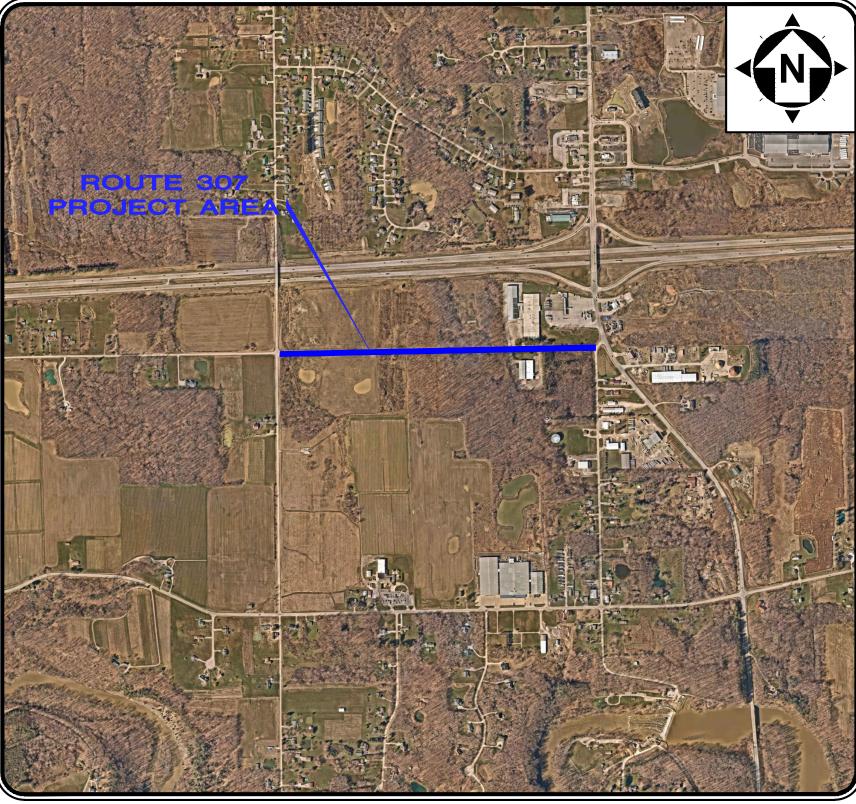
- UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
- 2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



1-800-362-2764

THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY OTHER PURPOSE.

APRIL 2024

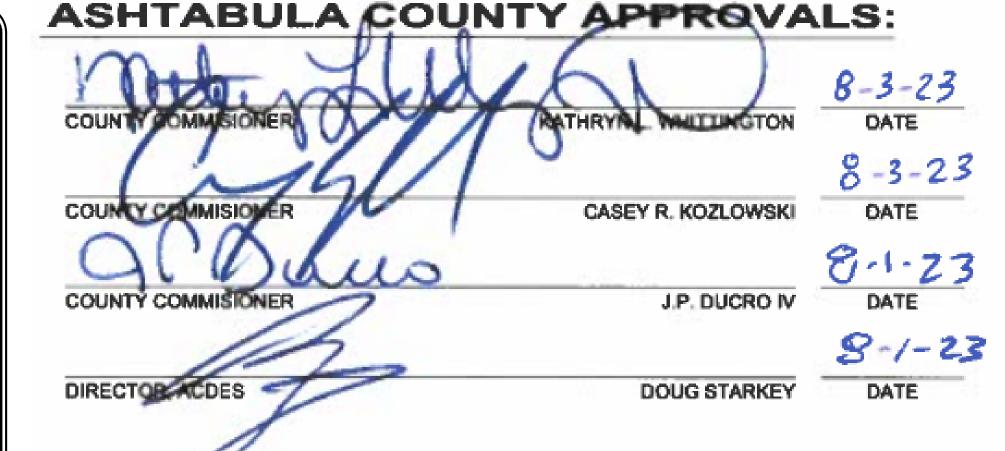


LOCATION MAP NOT TO SCALE



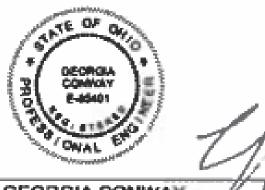
GEORGIA CONWAY

P.E. No. E-85401



ENGINEER/ARCHITECT:

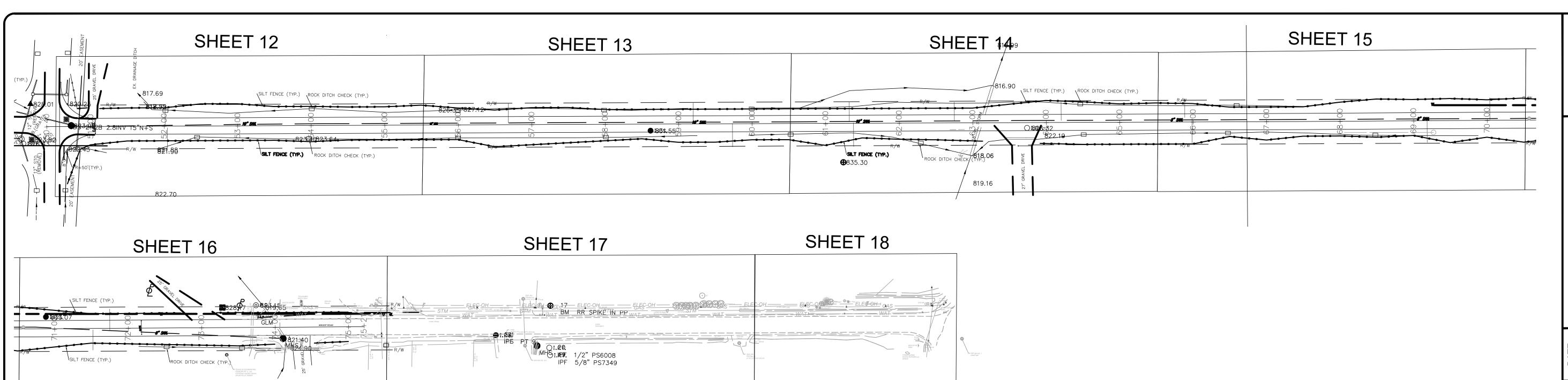
CT CONSULTANTS, INC. 8150 STERLING COURT MENTOR, OH 44060 (440) 951-9000 PHONE (440) 951-7487 FAX



7/31/23 DATE

PROJECT NO: 231064 SHEET NAME G-01

ENGINEER'S PROJECT No. 231064



Sheet List Table					
SHEET NUMBER	SHEET TITLE	SHEET NAME	DISCIPLINE		
1	COVER SHEET	G-01	GENERAL		
2	SHEET INDEX	G-02	GENERAL		
3	SITE LEGEND	G-03	GENERAL		
4	GENERAL NOTES 1	G-04	GENERAL		
5	GENERAL NOTES 2	G-05	GENERAL		
6	CONSTRUCTION DETAILS-01	G-06	GENERAL		
7	CONSTRUCTION DETAILS-02	G-07	GENERAL		
8	CONSTRUCTION DETAILS-03	G-08	GENERAL		
9	CONSTRUCTION DETAILS-04	G-09	GENERAL		
10	BISHOP ROAD PLAN AND PROFILE- 0+00 - 4+75	C-01	CIVIL		
11	BISHOP ROAD PLAN AND PROFILE- 4+75 - 9+75	C-02	CIVIL		
12	BISHOP ROAD PLAN AND PROFILE- 9+75 - 14+75	C-03	CIVIL		
13	BISHOP ROAD PLAN AND PROFILE- 14+75 - 19+75	C-04	CIVIL		
14	BISHOP ROAD PLAN AND PROFILE- 19+75 - 24+75	C-05	CIVIL		
15	BISHOP ROAD PLAN AND PROFILE- 24+75 - 29+75	C-06	CIVIL		
16	BISHOP ROAD PLAN AND PROFILE- 29+75 - END	C-07	CIVIL		

			advisor		planners		
	/	•	your trusted advisor		1	_	
DATE							
REVISION							
<u>Q</u>				_			
AS SHOWN		04/09/2024	BY: MLB		r: MLB		BY: GBC
SCALE		DATE:	DESIGNED BY:		DRAWN BY:		CHECKED BY:
ASHTABULA COUNTY DEPARTMENT	OF ENVIRONMENTAL SERVICES	BISHOP BOAD WATERWAIN	JEFFERSON, OHIO		RAL	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	INDEA
Z	Ц				GENERAL		SHEET INDEA
ASHTABULA CO	OF ENVIRONM		ASHTABULA COUNTY				
		PRO 23	ASHTABULA		NO:		
		23 8HE	ASHTABULA		NO:	F	

FENCE, GENERAL	xxxxx
FENCE, BARBED WIRE	
FENCE, CHAIN LINK	
FENCE, DECORATIVE	
FENCE, ELECTRIC	XEXE
FENCE, VINYL	
FENCE, WOOD	
FENCE, WOVEN WIRE	
CABLE RAIL	
GUARDRAIL	
HANDRAIL	-
CABLE T.V., ABANDONED	CATV_ABAN CATV_ABAN
CABLE T.V.	CATV
CABLE T.V., OH	CATV-OH
CABLE T.V., UG	CATV-UG
CABLE T.V., SERVICE	CATV CATV
CABLE T.V., SERVICE OH	CATV-OH CATV-OH
CABLE T.V., SERVICE UG	CATV-UG CATV-UG
COMMUNICATION, ABANDONED	COMB-ABAN COMB-ABAN
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COMMUNICATION, OH	СОММ-ОН
COMMUNICATION, UG	
COMMUNICATION, SERVICE	сомм сомм
COMMUNICATION, SERVICE OH	COMM_OH COMM_OH
COMMUNICATION, SERVICE, UG	COMM-UG COMM-UG
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ELECTRIC, ABANDONED	ELEC_ABAN ELEC_ABAN
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ELECTRIC, DUCT BANK ELECTRIC	ELEC
	ELEC
ELECTRIC, OH	
ELECTRIC, UG	ELEC-UG
ELECTRIC, SERVICE	ELEC ELEC ELEC
ELECTRIC, SERVICE OH	ELEC-OH ELEC-OH
ELECTRIC, SERVICE, UG	ELEC-UG ELEC-UG
5050 0075 15.00	
FIBER OPTIC, ABANDONED	FOC-ABAN FOC-ABAN
FIBER OPTIC, DUCT BANK	
FIBER OPTIC	
FIBER OPTIC, OH	
FIBER OPTIC, UG	
FIBER OPTIC, SERVICE	FOC FOC
FIBER OPTIC, SERVICE OH	FOC-OH FOC-OH
FIBER OPTIC, SERVICE, UG	FOC-UG FOC-UG
GAS, ABANDONED	GAS-ABAN GAS-ABAN
GAS CERUIOS	GAS
GAS, SERVICE	GS GS GS
O. ()	
SANITARY, ABANDONED	——————————————————————————————————————
SANITARY FORCE MAIN	SAN
SANITARY SEWER	SAN
SANITARY LEACH LINE	LCH
SANITARY SEWER, DOUBLE	
SANITARY SEWER, SERVICE	ss ss
STORM SEWER, ABANDONED	
STORM CULVERT	
STORM SEWER	
STORM SEWER, DOUBLE	
STORM, ROOF DRAIN	——— RD ——— RD ——— RD ————
STORM, UNDERDRAIN	UDUDUD
TELEPHONE, ABANDONED	
TELEPHONE	
TELEPHONE, OH	
TELEPHONE, UG	
TELEPHONE, SERVICE	TEL TEL
TELEPHONE, SERVICE OH	TEL-OH TEL-OH
TELEPHONE, SERVICE, UG	TEL-UG TEL-UG
TRAFFIC, ABANDONED	TRA-ABAN TRA-ABAN TRA-ABAN
TRAFFIC LINE	TRA TRA
TRAFFIC LINE, OH	TRA-OH
TRAFFIC LINE, UG	TRA-UG —
TRAFFIC, LOOP WIRE	
TRAFFIC, SPAN WIRE	
WATER LINE, ABANDONED	WAT_ABAN WAT_ABAN
WATER LINE, ABANDONED WATER LINE	WAT
	1
WATER LINE, DOUBLE	

EXISTIN	G LINETYPES
BRUSH LINE	
BUSH LINE	
TREE LINE	
MAJOR CONTOUR	1005
MINOR CONTOUR	1001
WATER EDGE	
COUNTY LINE	CNTY CNTY
CORPORATION LINE	CORP CORP
	+
ANNEXATION AREA	
SECTION LINE	SECT SECT SECT
TOWNSHIP LINE	TOWN TOWN
FLOOD PLAIN LIMIT	
WETLAND LIMIT	WTLND
FARM LINE	
BOUNDARY LINE	
PROPERTY LINE	EX. P/L
LEASE LINE	
RIGHT-OF-WAY LINE	EX. R/W
RIGHT-OF-WAY C/L	T
SURVEY STATIONING	1+00 2+00
PROPOS	ED LINETYPES
FENCE, GENERAL	
FENCE, BARBED WIRE	
FENCE, CHAIN LINK	o o o o
FENCE, DECORATIVE	
FENCE, ELECTRIC	XEXE
FENCE, VINYL	
FENCE, WOOD	
FENCE, WOVEN WIRE	XXX
CABLE RAIL	
GUARDRAIL	0 0 0 0 0 0 0
HANDRAIL	
ELECTRIC, DUCT BANK	
ELECTRIC, OH	ELEC-OH
ELECTRIC, UG	ELEC-UG — ELEC-UG —
ELECTRIC, SERVICE OH	
ELECTRIC, SERVICE, UG	
GAS	GAS
	cs cs cs
GAS, SERVICE	03 - 03 - 03
SANITARY FORCE MAIN	———— FM —
SANITARY SEWER	SAN
SANITARY LEACH LINE	
SANITARY SEWER, DOUBLE	
SANITARY SEWER, SERVICE	ss ss
STORM SEWER	STM
STORM SEWER, DOUBLE	
STORM, ROOF DRAIN	
STORM, UNDERDRAIN	UD UD UD
WATER LINE	WAT
WATER LINE, DOUBLE	
WATER LINE, SERVICE	ws ws ws
BUSH LINE	
FREE LINE	
MAJOR CONTOUR	1005
MINOR CONTOUR	1001
WATER EDGE	
BOUNDARY LINE	
PROPERTY LINE	
EASEMENT LINE	T
EASE LINE	† <u> </u>
	<u> </u>
RIGHT-OF-WAY LINE	
RIGHT-OF-WAY C/L	
PHASE LINE	
TEMPORARY RIGHT-OF-WAY	
	T
WORK LIMIT	<u> </u>
WORK LIMIT	
SETBACK	1+00 2+00
	1+00 2+00
SETBACK SURVEY STATIONING	
SETBACK	1+00 2+00
SETBACK SURVEY STATIONING	
SETBACK SURVEY STATIONING CONSTRUCTION FENCE	CFCF

ſ	EXISTING SYMBOLS		EXISTING SYMBOLS		
F	SANITARY MANHOLE	(§)	TELEPHONE PAY PHONE		
	SANITARY CLEANOUT	0	FIBER OPTIC CABLE MANHOLE	<u>[4]</u> (FO)	
	SANITARY LINE CAP	ı	FIBER OPTIC CABLE PAINT MARKING	EOC X	
	SANITARY LINE PAINT MARKING	SAN	TRAFFIC CONTROL MANHOLE	(R)	
	SANITARY STRUCTURE NUMBER	(00)	TRAFFIC CONTROL BOX	ΈC	
	SANITARY VENT PIPE	0	TRAFFIC CONTROL PAINT MARKING	TRA.	
	STORM MANHOLE (SOLID LID)	(D)	TRAFFIC PULL BOX	PB	
	STORM MANHOLE (OPEN GRATE)	()	TRAFFIC SIGNAL PEDESTAL	æ	
	CURB INLET	田田	UNKNOWN, PULL BOX	<u>P</u> B	
	CURB INLET (DOUBLE)	шш	UNKNOWN, CLEANOUT	٥	
	CATCH BASIN	目	UNKNOWN, MANHOLE	(Ú)	
	CATCH BASIN (ROUND LID)	€	UNKNOWN, VALVE	양	
	CATCH BASIN (DOME)	(2)	MONITORING WELL		
_	CATCH BASIN (SIDE INLET)		TEST WELL	<u></u>	
_	DRAIN	国	WATER WELL		
_	DOWNSPOUT		SOIL BORING	<u> </u>	
_	STORM CLEANOUT	٥	SWAMP	<u>*</u>	
	STORM LINE CAP	l I	POLE, ELECTRIC	P	
	STORM ENDWALL	====	POLE, TELEPHONE	\$	
	STORM HEADWALL	\$N	POLE, LIGHT	<u>,</u> 6	
	STORM LINE PAINT MARKING				
	STORM STRUCTURE NUMBER	(00)	POLE, LIGHT, DECORATIVE	<u> </u>	
	ROCK CHANNEL PROTECTION	5050505	POLE, LIGHT-OVERHEAD	<u>[Ō</u> }==<	
	SURFACE DRAINAGE FLOW		POLE, CABLE TV	(4).	
	STORM FLOOD ROUTING ARROW	[, }	POLE, UTILITY	, W	
	FIRE HYDRANT	<u> </u>	POLE, GENERAL		
	WATER SIAMESE CONNECTION	€		φ R	
	WATER VALVE	<u>।</u>	POLE, TRAFFIC CONTROL	· P	
	WATER VALVE BOX	© ™ 7	POLE, GUY	, G φ	
	WATER METER PIT		POLE, BRACE	'В \$	
	WATER METER PIT WATER LINE REDUCER		POLE, ELECTRIC/TELEPHONE		
	WATER LINE CAP	127		,	
_	WATER LINE PLUG	1	POLE, ELECTRIC W/LIGHT	. ⁰ \$1.0\$\$	
	WATER LINE PLOG WATER LINE PAINT MARKING	<u>"</u>	POLE, ELECTRIC/CABLE TV	Ş	
	POST INDICATOR VALVE		POLE, ELECTRIC/TELEPHONE/LIGHT	PO.	
	WATER MANHOLE	(V)	POLE, ELECTRIC/TELEPHONE/CABLE TV	ِ ^ڳ ڻِ لِهُنِ	
	WATER FLUSHING ASSEMBLY	(V) (X)), ((0), (1)	
	WATER FIXTURE	WE.	POLE, ELEC./TELE./LIGHT/CABLE TV		
_	WATER FITTING (TEE)	H	POLE, TELEPHONE/LIGHT	<u></u>	
	WATER FITTING (CROSS)	<u> </u>	POLE, TELEPHONE/CABLE TV	()	
	WATER FITTING (45° WYE)	4	POLE, TELEPHONE/LIGHT/CABLE TV	(\$	
_	WATER FITTING (11.25°)	<i>H</i>		<u>}</u>	
	WATER FITTING (22.50°)	4	POLE, CABLE TV W/LIGHT		
	WATER FITTING (45°)	4	POLE, GUY WIRE		
	WATER FITTING (90°)	٦	SIGN DOUBLE CIPED	-	
	IRRIGATION SPRINKLER HEAD	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SIGN, DOUBLE SIDED		
	IRRIGATION CONTROL BOX		SIGN, DUAL POST SIGN, RAILROAD	**	
	IRRIGATION BOX		POST		
	STEAM MANHOLE	(SM)	BOLLARD	O	
	STEAM VENT	€	DELINEATOR POST	 •	
	COMBINED SEWER MANHOLE	ĆM)	PARKING BUMPER BLOCK		
	GAS LIGHT POST (YARD)	- - - <u>-</u> -	HANDICAP PARKING SYMBOL		
	GAS MANHOLE	(G)	HANDICAP PARKING SYMBOL HANDICAP PARKING SYMBOL	 &	
	GAS VALVE	8	HANDICAP DETECTABLE WARNING	<u> </u>	
	GAS VALVE BOX	<u>®</u>	MAILBOX	MB)	
	GAS	GV (2)	PAPERBOX	<u>MP</u> I <u>[PB]</u>	
	GAS METER	<u>GM</u>	PARKING METER		
	GAS REGULATOR	[GR]	GRAVE HEADSTONE	RIP	
	GAS VENT PIPE	0	EX. BARBEQUE GRILL	BBQ	
	GAS LINE PAINT MARKING	QAS XX	FUEL PUMP	FUEL	
	GAS LINE FIXTURE	<u>G</u> E	FLAG POLE		
	GAS	@B	RAISED PAVEMENT MARKER	<i>[</i>	
	ELECTRIC LIGHT POST (YARD)	-¤-	GUARDRAIL, CENTER POST	0	
	ELECTRIC MANHOLE	(E)	GUARDRAIL, TERMINAL POST		
	ELECTRIC PULL BOX	PB	GUARDRAIL, BOTTOM POST	o	
	ELECTRIC CONTROL BOX	ह्नि	GUARDRAIL, TOP POST	0	
	ELECTRIC JUNCTION BOX	[c7]	FENCE POST		
	ELECTRIC VAULT BOX	[VL]	PICNIC TABLE		
	ELECTRIC METER	EM	BENCH		
	ELECTRIC PEDESTAL	e	DECIDUOUS TREE	$\overline{\odot}$	
	ELECTRIC RISER BOX	B	EVERGREEN TREE	<u></u>	
	ELECTRIC TRANSFORMER	(TR)	STUMP		
	ELECTRIC HVAC UNIT	[AC]	BUSH		
	ELECTRIC GROUND LIGHT	☆	IRON PIN FOUND	0	
	ELECTRIC LINE PAINT MARKING	Ÿ.	SOLID IRON PIN FOUND	0	
	CABLE TV MANHOLE	(Ĉ)	IRON PIPE FOUND		
	CABLE TV PEDESTAL	 @	DRILL HOLE FOUND		
	CABLE TV PAINT MARKING	ÇAB	CHISELED "X" FOUND	X	
	TELEPHONE MANHOLE	Û	MONUMENT BOX FOUND	^ M	
	TELEPHONE PULL BOX	<u> </u>	MONUMENT CONCRETE FOUND	<u> </u>	
	TELEPHONE PEDESTAL	<u> </u>	MONUMENT RIGHT-OF-WAY FOUND		
	TELEPHONE RISER BOX	Œ	PK NAIL FOUND		
				V./	

	DLS
TELEPHONE PAY PHONE	
FIBER OPTIC CABLE MANHOLE	(£0)
FIBER OPTIC CABLE PAINT MARKING	F0C
TRAFFIC CONTROL MANHOLE	(R)
TRAFFIC CONTROL BOX	[TC]
TRAFFIC CONTROL PAINT MARKING	TRA X
TRAFFIC PULL BOX	EB
TRAFFIC SIGNAL PEDESTAL	æ
UNKNOWN, PULL BOX	PB
UNKNOWN, CLEANOUT	0
UNKNOWN, MANHOLE	(Ú)
UNKNOWN, VALVE	8
·	
MONITORING WELL	<u></u>
TEST WELL	®
WATER WELL	w
SOIL BORING	•
SWAMP	*
POLE, ELECTRIC	<i>P</i>
. SEE, EELOHNO	¥ 0 7
POLE, TELEPHONE	Ψ,
POLE, LIGHT	9
•	<u> </u>
POLE, LIGHT, DECORATIVE	-
POLE, LIGHT-OVERHEAD	[<u>O</u> }==<
POLE, CABLE TV	Ç
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POLE, UTILITY	L ¢
POLE, GENERAL	ď
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POLE, TRAFFIC CONTROL	<i>\$</i> '
POLE, GUY	 ල
	₽ F
POLE, BRACE	<u> </u>
POLE, ELECTRIC/TELEPHONE	(p
POLE, ELECTRIC W/LIGHT	, D
TOLL, LELOTING WY LIGHT	<u> </u>
POLE, ELECTRIC/CABLE TV	P
POLE, ELECTRIC/TELEPHONE/LIGHT	PO
	<u>i.</u>
POLE, ELECTRIC/TELEPHONE/CABLE TV	, Ç
POLE, ELEC./TELE./LIGHT/CABLE TV	\$
POLE, TELEPHONE/LIGHT	7
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POLE, TELEPHONE/CABLE TV	, Š
POLE, TELEPHONE/LIGHT/CABLE TV	&
DOLE CARLE THE WELLOUT	<u> </u>
POLE, CABLE TV W/LIGHT	φ
POLE, GUY WIRE	←
SIGN	-
SIGN, DOUBLE SIDED	=
SIGN, DUAL POST	0 0
SIGN, RAILROAD	*
POST	
BOLLARD	0
DELINEATOR POST	0
PARKING BUMPER BLOCK	
HANDICAP PARKING SYMBOL	å.
HANDICAP PARKING SYMBOL	Ğ
	<u>&</u>
HANDICAP DETECTABLE WARNING	
HANDICAP DETECTABLE WARNING MAILBOX	<u> </u>
HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX	MBI ESSSI
HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER	
HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE	E2323 MFI PFI RIP
HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE EX. BARBEQUE GRILL	## P RP ##
HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE EX. BARBEQUE GRILL	## ## ## ## ## ## ## ##
HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE EX. BARBEQUE GRILL FUEL PUMP	## P RP ##
HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE EX. BARBEQUE GRILL FUEL PUMP FLAG POLE	## ## ## ## ## ## ## ##
HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE EX. BARBEQUE GRILL FUEL PUMP FLAG POLE RAISED PAVEMENT MARKER	
HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE EX. BARBEQUE GRILL FUEL PUMP FLAG POLE RAISED PAVEMENT MARKER GUARDRAIL, CENTER POST	
HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE EX. BARBEQUE GRILL FUEL PUMP FLAG POLE RAISED PAVEMENT MARKER GUARDRAIL, CENTER POST	
HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE EX. BARBEQUE GRILL FUEL PUMP FLAG POLE RAISED PAVEMENT MARKER GUARDRAIL, CENTER POST GUARDRAIL, BOTTOM POST	
HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE EX. BARBEQUE GRILL FUEL PUMP FLAG POLE RAISED PAVEMENT MARKER GUARDRAIL, CENTER POST GUARDRAIL, BOTTOM POST GUARDRAIL, TOP POST	
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HANDICAP PARKING SYMBOL HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE EX. BARBEQUE GRILL FUEL PUMP FLAG POLE RAISED PAVEMENT MARKER GUARDRAIL, CENTER POST GUARDRAIL, TERMINAL POST GUARDRAIL, TOP POST FENCE POST PICNIC TABLE BENCH DECIDUOUS TREE EVERGREEN TREE STUMP BUSH IRON PIN FOUND	
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HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE EX. BARBEQUE GRILL FUEL PUMP FLAG POLE RAISED PAVEMENT MARKER GUARDRAIL, CENTER POST GUARDRAIL, TERMINAL POST GUARDRAIL, TOP POST FENCE POST PICNIC TABLE BENCH DECIDUOUS TREE EVERGREEN TREE STUMP BUSH IRON PIN FOUND IRON PIPE FOUND	
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HANDICAP DETECTABLE WARNING MAILBOX PAPERBOX PARKING METER GRAVE HEADSTONE EX. BARBEQUE GRILL FUEL PUMP FLAG POLE RAISED PAVEMENT MARKER GUARDRAIL, CENTER POST GUARDRAIL, BOTTOM POST GUARDRAIL, TOP POST FENCE POST PICNIC TABLE BENCH DECIDUOUS TREE EVERGREEN TREE STUMP BUSH JRON PIN FOUND SOLID JRON PIN FOUND DRILL HOLE FOUND MONUMENT BOX FOUND	

EXISTING SYMBO	OLS
SPIKE FOUND	Δ
HUB FOUND	
AXLE FOUND	0
WOOD POST FOUND	
CORNER STONE FOUND	CS
AERIAL TARGET FOUND	∆ AER
GPS CONTROL FOUND	AER GPS
BENCHMARK FOUND	GPS
BEIVOI INVINIA TO COND	
PROPOSED SYME	BOLS
SANITARY MANHOLE	<u></u>
SANITARY MANHOLE, ADJUST	
SANITARY CLEANOUT	0
SANITARY LINE CAP	1
SANITARY STRUCTURE NUMBER	(00)
SANITARY VENT PIPE	O
STORM MANHOLE (SOLID GRATE)	0
STORM MANHOLE (OPEN GRATE)	
STORM MANHOLE, ADJUST	
CURB INLET	
CURB INLET (DOUBLE)	
CURB INLET, ADJUST	<u> </u>
CURB INLET (DOUBLE), ADJUST	<u> </u>
CATCH BASIN	
CATCH BASIN (SOLID)	
CATCH BASIN (SOLID) CATCH BASIN, ADJUST	
<u> </u>	
CATCH BASIN (SIDE INLET)	
DRAIN	■
DOWNSPOUT	
STORM CLEANOUT	0
STORM LINE CAP	1
STORM HEADWALL	
STORM STRUCTURE NUMBER	(00)
ROCK CHANNEL PROTECTION	50505
SURFACE DRAINAGE FLOW	→
SURFACE DRAINAGE FLOW	~~~
STORM FLOOD ROUTING ARROW	
FIRE HYDRANT	(€
FIRE HYDRANT, ADJUST	a a
WATER SIAMESE CONNECTION	~
WATER VALVE	0 8
WATER VALVE BOX	
WATER METER	WM
WATER LINE REDUCER	•
WATER LINE CAP	1
WATER LINE PLUG	•
POST INDICATOR VALVE	PIV
WATER MANHOLE	(W)
WATER CORPORATION STOP	•
WATER FLUSHING ASSEMBLY	••
WATER METER	WM
GAS LIGHT POST (YARD)	- <u>□</u> -
GAS MANHOLE	<u> </u>
GAS MANHOLE	G
	M A
GAS VALVE	⊗ •
GAS METER	GM
GAS REGULATOR	GR
GAS VENT PIPE	Ø
ELECTRIC LIGHT (GROUND)	- X -
ELECTRIC LIGHT POST (YARD)	- <u>i</u>
ELECTRIC MANHOLE	E
ELECTRIC MANHOLE, ADJUST	
ELECTRIC PULL BOX	РВ
ELECTRIC CONTROL BOX	СТL
ELECTRIC JUNCTION BOX	JCT
ELECTRIC VAULT BOX	VLT
ELECTRIC METER	EM
ELECTRIC METER ELECTRIC PEDESTAL	EP EN
ELECTRIC PEDESTAL ELECTRIC TRANSFORMER	TR
ELECTRIC AIR CONDITION UNIT	AC
POLE, ELECTRIC	💆
	
POLE, TELEPHONE	•
POLE, LIGHT	<u> </u>
POLE, LIGHT, DECORATIVE	
POLE, LIGHT-OVERHEAD	
	<u> </u>
POLE, CABLE TV	Ψ
	I 📥
POLE, UTILITY	7
POLE, UTILITY POLE, GENERAL	7

	PROPOSED SYMB	OLS	ABBREVIATION	ONS
	POLE, TRAFFIC CONTROL	$\overline{\mathcal{R}}$	EDGE OF PAVEMENT ELEVATION	EP
		G	ELECTRIC	ELE
_	POLE, GUY	<u></u>	EXISTING	ENC
-	POLE, BRACE	P	FACE TO FACE	EX F/F
	POLE, ELECTRIC/TELEPHONE	P	FINISHED FLOOR ELEVATION	FFE
	TOLE, ELECTRIC/TELET HONE	P	FIRE HYDRANT	FH
	POLE, ELECTRIC W/LIGHT	Ĺ	FOUNDATION	FND
	POLE, ELECTRIC/CABLE TV	.	FULL DEPTH RECLAMATION FUTURE	FDI FU1
		P	GAS	G
	POLE, ELEC./TELE./LIGHT	<u> </u>	GALVANIZED PIPE	GF
_	POLE, ELEC./TELE./CABLE TV		GRADE BREAK ELEVATION	GE
	POLE, ELEC./TELE./LIGHT/CABLE	₽	GRAVEL GROUND ELEVATION	GVI
	DOLE TELEBUIONE/LIQUE	\mathcal{I}	GUTTER ELEVATION	GU ⁻
	POLE, TELEPHONE/LIGHT	<u> </u>	HANDICAP (E.G. ACCESSIBLE)	НС
	POLE, TELEPHONE/CABLE TV	P	HIGH-DENSITY POLYETHYLENE PIPE	HDF
	POLE, TELE./LIGHT/CABLE TV	©	HIGH POINT ELEVATION	HF
		$\overline{\varphi}$	HORIZONTAL	HOF
	POLE, CABLE TV W/LIGHT		IRRIGATION	IRR
_	POLE, FLAG		JOINT	JT
	GUY WIRE		JOINT FILLER	JF
	POST, SIGN (SINGLE SIDED)	•	JUNCTION KNOCKOUT	JC1 KC
	POST, SIGN (DOUBLE SIDED)	=	LATERAL	LAT
	POST, SIGN (DUAL POST) POST (GENERAL)	•	LOW POINT ELEVATION	LP
_	BOLLARD	<u> </u>	MAINTAIN	MAIN
	DELINEATOR POST	<u> </u>	MATERIAL	MAT
	FENCE POST	•	MOUNTED MISCELLANEOUS	MIS
	PARKING COUNT	<u> </u>	NOT TO SCALE	N.T.
	PARKING BUMPER BLOCK HANDICAP PARKING SYMBOL	<u> </u>	ORNAMENTAL	ORI
_	HANDICAP DETECTABLE WARNING		OUT TO OUT	0/0
	MAILBOX	MB	OVERHEAD	OF
	PAPERBOX	PB	OXYGEN LINE PARKING	O PKO
	PARKING METER	&	PAVEMENT	PVM
	STREET SIGN	•	PEDESTAL	PE
_	TRAFFIC CONTROL MANHOLE	®	PERFORATE	PER
	TRAFFIC CONT. MANHOLE (ADJ) TRAFFIC CONTROL BOX	TRAF	PIPE INVERT ELEVATION POLYVINYL CHLORIDE PIPE	INV PV
	TRAFFIC PULL BOX	РВ	PREFORMED JOINT FILLER	PJF
	TRAFFIC SIGNAL PEDESTAL	TP	PROPOSED	PR
	INLET PROTECTION		PULL BOX	PB
	STRAW BALE CHECK DAM		RAILROAD	RR
	TREE (DECIDUOUS) TREE (EVERGREEN)	*	REINFORCED CONCRETE PIPE	REIN
	BUSH		REMOVE	RM
	ABBREVIATIO		RETAINING WALL	RET.W
-	ABANDONED	ABAN.	ROOF LEADER	RL
	ADJUST	ADJ.	SALVAGE SANITARY SEWER	SAL
	AGGREGATE	AGG.	SERVICE SERVICE	SER
	ASBESTOS PIPE	ASB.	SLEEVE	SL\
\dashv	ASPHALT BETWEEN	ASPH. BTW.	STABILIZATION	STAE
\dashv	BOTTOM OF CURB ELEVATION	BTW.	STEAM PIPE	STE
	BOTTOM OF FOOTING ELEVATION	FTG.	STEEL PIPE STORM SEWER	STL
	BOTTOM OF WALL ELEVATION	BWE	SUMP PUMP	SP
	BUILDING	BLDG.	TELEPHONE	TEL
\dashv	BULKHEAD CABLE TELEVISION	BHD.	TEMPORARY	TEM
	CAST IRON PIPE	CIP	THICKENED TOP OF CURB ELEVATION	THE
	CATCH BASIN	СВ	TOP OF HEADWALL ELEVATION	THV
	CENTERLINE	C/L	TOP OF STRUCTURE ELEVATION	RIN
\dashv	CENTER TO CENTER	C/C CLF	TOP OF WALL ELEVATION	TW
\dashv	CHAIN LINK FENCE CONCENTRIC	CON.	TRENCH DRAIN	TO
\dashv	CONCRETE	CONC.	TYPICAL UNDERDRAIN	TYF
\dashv	CONNECTION	CONN.	UNDERGROUND	UG
	CONTROL JOINT	CJ	VERTICAL	VER
	·	CMP	VITRIFIED CLAY PIPE	VCI
	CORRUGATED METAL PIPE	DEMO		
	DEMOLITION	DEMO.	WATER MAIN	W.
		DEMO. DS DMH	WINDOW ELEVATION	WIN
	DEMOLITION DOWNSPOUT	DS		

ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES DATE: 04/09/2024 BISHOP ROAD WATERMAIN ASHTABULA COUNTY JEFFERSON, OHIO DESIGNED BY: MLB ASH		1 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	G C E S C C C C C C C C C C C C C C C C C	EOF ONV E-854	VA 401	Y
ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES BISHOP ROAD WATERMAIN ASHTABULA COUNTY JEFFERSON, OHIO BESIGNED BY: MLB ASHTABULA COUNTY ASHTABULA				your trusted advisor	consultants	
ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES BISHOP ROAD WATERMAIN ASHTABULA COUNTY JEFFERSON, OHIO DESIGNED BY: MLB	DATE					
ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES BISHOP ROAD WATERMAIN ASHTABULA COUNTY JEFFERSON, OHIO DESIGNED BY: MLB	REVISION					
ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES BISHOP ROAD WATERMAIN ASHTABULA COUNTY JEFFERSON, OHIO DESIGNED		<u> </u>		l		
555					JELLENGON, OTHO	
PROJECT						

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EP ELEC. ENCL. EX. F/F FFE

FNDN. FDR FUT. G GP GB GVL. GND.

HC HDPE HP HOR. INSTL. IRR.

JCT. KO LAT.

MAINT. MATL. MTD.

N.T.S. ORN. O/O ОН

PKG. PVMT. PED. PERF. INV. PVC PJF

PB RR REINF. RCP RMV. RET.WALL RL SALV. SAN. SERV. SLV.

STEA. STL. STM. SP TEL. TEMP. THK.

> RIM TW TD TYP. UD UG VERT.

WIN. WM WD. ΥH

<u>GENERAL</u>

- 1. THE CONTRACTOR SHALL PERFORM ALL OF THE WORK AND FURNISH ALL OF THE LABOR AND MATERIALS NECESSARY FOR THE FINAL COMPLETION OF THIS CONTRACT IN THE MANNER AND UNDER THE CONDITIONS HEREIN SPECIFIED AND PROVIDED AND IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
- 2. THE CONTRACTOR SHALL NOTIFY THE COUNTY WATER DEPARTMENT A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE A PRE—CONSTRUCTION MEETING. NO WORK SHALL BEGIN UNTIL A PRE—CONSTRUCTION MEETING HAS BEEN HELD.
- 3. A PRE-CONSTRUCTION VIDEO OF THE PROJECT AREA WILL BE REQUIRED AND SUBMITTED TO THE ENGINEER BEFORE CONSTRUCTION BEGINS.
- 4. ACCESS TO ALL DRIVEWAYS WILL BE MAINTAINED AT ALL TIMES EXCEPT THE TIME WHEN UTILITY INSTALLATION AND PAVEMENT REPLACEMENT WILL NOT PERMIT.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A SITE FOR DISPOSAL OF ALL EXCAVATED MATERIAL THAT IS UNSUITABLE FOR USE AS BACKFILL AND ALL OTHER EXCESS EXCAVATED MATERIALS. THE CONTRACTOR SHALL PROVIDE THE COUNTY WITH THE LOCATION OF THE DISPOSAL SITE AND WRITTEN PERMISSION FOR USE OF THE SITE FROM THE PROPERTY OWNER.
- 6. ALL OVER-THE-ROAD VEHICLES USED ON THE PROJECT BY ALL CONTRACTORS AND SUBCONTRACTORS WILL BE CLEARLY MARKED SHOWING ITS COMPANY SYMBOL.
- 7. BEFORE THE COUNTY WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR WILL FURNISH THE COUNTY A WRITTEN REPORT INDICATING THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD. THE INFORMATION TO BE SUPPLIED SHALL INCLUDE, BUT NOT BE LIMITED TO, NAME OF CLAIMANT, DATE FILED WITH CONTRACTOR, NAME OF INSURANCE COMPANY AND/OR ADJUSTOR HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION.
- 8. MATERIALS FOR "AS-DIRECTED" ITEMS SHALL NOT BE ORDERED OR DELIVERED TO THE PROJECT SITE OR WORK PERFORMED UNTIL AUTHORIZED BY THE ENGINEER.
- 9. ALL SHOP DRAWINGS WILL BE SUBMITTED TO THE ENGINEER FOR CHECKING.
- 10. THE CONTRACTOR SHALL NOTIFY THE COUNTY POLICE AND FIRE DEPARTMENTS, ASHTABULA COUNTY ENGINEER, THE COUNTY REPRESENTATIVES AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC CHANGE.
- 11. THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE OR DESTROY ANY MAILBOX, PAPERBOX, TELEPHONE OR POWER POLES, SIGNS, LANDSCAPING ITEMS, ETC.. ANY ITEM DAMAGED OR DESTROYED SHALL BE REPLACED AT THE CONTRATOR'S EXPENSE. ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.
- 12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY, WHEN ORDERED BY THE OWNER, WATER OR CALCIUM CHLORIDE FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE ORIGINATING FROM HIS CONSTRUCTION ACTIVITIES. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL. THE COST OF DUST CONTROL SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
- 13. ALL SOIL AREAS DISTURBED SHALL BE TOPSOILED (4" THICK), SEEDED AND MULCHED. ALL TOPSOIL WORK INSIDE THE STREET RIGHT—OF—WAY SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT.
- 15. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE INSTALLING ANY PROPOSED CONDUIT. ANY ADJUSTMENTS NEEDED SHALL BE APPROVED BY THE ENGINEER.
- 16. THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO (CURRENT EDITION), DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT

TEMPORARY PAVEMENT AND MAINTENANCE OF TRAFFIC

THE CONTRACTOR SHALL REMOVE ALL PAVEMENTS AND ROAD SURFACES WITHIN THE LINES OF EXCAVATION IN ACCORDANCE WITH THE PLANS AND DETAILS. AFTER THE PAVEMENT HAS BEEN REMOVED AND THE PIPE HAS BEEN LAID, ALL APPURTENANT WORK CONSTRUCTED AND BACKFILL COMPLETED, THE CONTRACTOR SHALL FURNISH, PLACE AND MAINTAIN WHEREVER THE PLACEMENT OF ROAD, WHEREVER SURFACE HAS BEEN REMOVED OR DAMAGED, A TEMPORARY PAVEMENT IN THE PAVED PORTION OF STREETS AND DRIVEWAYS SO AS TO PROVIDE A SAFE AND PASSABLE ROADWAY UNTIL SUCH TIME AS THE FINAL PAVEMENT IS COMPLETED. ACCESS TO ALL DRIVES SHALL BE MAINTAINED AT ALL TIMES EXCEPT BRIEFLY DURING WORKING HOURS WHEN CONSTRUCTION ACTIVITIES PROHIBIT.

PROTECTION AGAINST VANDALISM

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUFFICIENT SITE SECURITY MEASURES AND / OR PERSONNEL TO PROTECT ALL NEW CONCRETE WORK FROM VANDALISM UNTIL THE CONCRETE IS SUFFICIENTLY CURED AT NO ADDITIONAL COST.

SANITARY, STORM, AND WATER SERVICE CONNECTIONS

- 1. THE FOLLOWING NOTES APPLY TO SANITARY, STORM, AND WATER CONNECTIONS
- a. LOCATIONS OF EXISTING SERVICE CONNECTIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING CONNECTIONS AT NO ADDITIONAL COST TO THE COUNTY. THE CONTRACTOR SHALL RECORD ACTUAL LOCATION INFORMATION ON HIS RECORD DRAWINGS AS CONSTRUCTION OCCURS.
- THERE SHALL BE NO ADDITIONAL PAYMENT MADE FOR SAW CUTTING, EXCAVATION OR BACKFILL, INCLUDING MATERIALS AND LABOR FOR, PIPING, CAPS, BULKHEADS AND APPURTENANCES PLACED FOR LATERALS WHICH ARE DETERMINED TO BE INACTIVE AND THUS ARE TO BE ABANDONED.
- c. NO INACTIVE LATERALS SHALL BE RECONNECTED TO THE SEWER.
- 2. THE CONTRACTOR SHALL BE REQUIRED TO BYPASS AND MAINTAIN THE FLOW FROM ALL HOUSE UTILITY CONNECTIONS DURING CONSTRUCTION.
- 3. THE CONTRACTOR SHALL SUPPLY ALL PIPE AND ADAPTERS TO CONNECT TO EXISTING PIPING. THE ADAPTERS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 4. EXISTING SEWER AND WATER SERVICE CONNECTIONS SHALL BE PROTECTED AND MAINTAINED IN SERVICE. ANY EXISTING WATERLINE, SANITARY SEWER, AND GAS LINE, IN OR OUTSIDE OF THE CONSTRUCTION LIMITS, DAMAGED DURING CONSTRUCTION OF THE PROPOSED PROJECT, WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ROADWAY EXCAVATION AND PAVEMENT

ALL PAVEMENT REMOVAL AND REPLACEMENT, NEW PAVEMENT AND ASSOCIATED ROADWAY WORK WILL BE IN ACCORDANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, STANDARD CONSTRUCTION DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS, CURRENT ISSUE, WITH THE MODIFICATIONS AS SET FORTH IN THESE SPECIFICATIONS.

CURB AND DRIVE APRONS THAT NEED TO BE REPLACED SHALL BE PAID FOR AT THE UNIT PRICE BID FOR EACH RESPECTIVE ITEM.

METER BOXES, VALVES BOXES, STRUCTURES ADJUSTED TO GRADE

ALL EXISTING MANHOLES, CATCH BASINS, MONUMENT BOXES, WATER METER BOXES, WATER VALVE BOXES, GAS VALVE BOXES OR OTHER EXISTING UTILITY APPURTENANCES WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO THE PROPOSED GRADE AND FLUSH WITH THE NEW SURFACE. ANY METER OR VALVE BOX ENCOUNTERED WITHIN THE WORK SITE SHALL BE EXPOSED. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS OF WORK EXCEPT WHEN BID AS A SEPARATE ITEM. CONTRACTOR TO SUPPLY 1" RISER FOR ALL VALVE BOXES ADJUSTED TO GRADE.

PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS

THE CONTRACTOR WILL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES AND IN CASE OF DISTURBANCE, HE SHALL ENGAGE A REGISTERED SURVEYOR TO REPLACE THEM AT HIS EXPENSE AND SHALL BE RESPONSIBLE FOR ANY MISTAKES THAT MAY BE CAUSED BY THEIR LOSS OR DISTURBANCE.

SUBSURFACE CONDITIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS BID. CONTACT THE COUNTY TO MAKE ARRANGEMENTS.

STATIONING AND LOCATIONS

ALL LOCATIONS AND ITEMS CALLED OUT BY STATION ARE SUBJECT TO ADJUSTMENT IN THE FIELD AS APPROVED BY THE ENGINEER.

EXISTING UTILITIES

- 1. EACH CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE SITE PRIOR TO BID SUBMISSION.
- 2. THE DATA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE EXISTENCE OF FACILITIES ABOVE OR BELOW GROUND, WHICH MAY NOT BE SHOWN, WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK.
- 3. THE LOCATIONS OF THE UNDERGROUND UTILITIES ARE PLOTTED ACCORDING TO THE INFORMATION FURNISHED BY THE UTILITIES CONCERNED AND THE COUNTY DOES NOT GUARANTEE THE ACCURACY THEREOF. CONTRACTOR ALSO TO COORDINATE HIS WORK WITH THE DOMINION EAST OHIO GAS COMPANY, CLEVELAND ELECTRIC, ALL—TEL AND TCI FOR GAS LINE AND/OR POLE RELOCATION.
- 4. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE COUNTY INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS. CABLE (CEI, OBT & TV) RELOCATION AND SUPPORT. COST SHALL BE INCLUDED IN OTHER BID ITEMS.
- 5. WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE. THE COST FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THAT OF THE COUNTY.
- 6. DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION OR PROTECTION SHALL NOT BE CONSIDERED COMPENSABLE DELAYS, AS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK IN CONFORMANCE TO THE UTILITY COMPANY'S SCHEDULE.
- 7. BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE" AT 1-800-362-2764, FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE COUNTY, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE COUNTY, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS. THE UTILITY OWNERSHIPS ARE LISTED ON THE COVER SHEET.
- 8. WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.
- 9. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
- 10. IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

NOISE CONTROL

CONSTRUCTION ACTIVITIES WILL BE LIMITED TO WEEKDAY DAYTIME HOURS UNLESS APPROVED 48 HOURS IN ADVANCE BY THE COUNTY.

LANDSCAPING BEDS, PLANTINGS AND TREE PROTECTION/ REMOVAL

- 1. ANY LANDSCAPING BEDS, PLANTINGS AND TREES DISTURBED BY CONSTRUCTION ACTIVITIES BEYOND THE RIGHT-OF-WAY SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR REPLACED AS DIRECTED BY THE COUNTY.
- 2. ALL TREES WITHIN THE RIGHT-OF-WAY SHALL THAT ARE IN CONFLICT WITH CONSTRUCTION TO BE REMOVED BY THE CONTRACTOR. TREES GREATER THAN 12" IN DIAMETER THAT ARE REMOVED ARE TO BE PAID FOR EACH TREE. TREES LESS THAN 12" IN DIAMETER THAT ARE REMOVED ARE TO BE INCLUDED IN THE COST OF THE INSTALLED ITEMS.

SALVAGED ITEMS

THE COUNTY SHALL RECEIVE ALL SALVAGED ITEMS SUCH AS MANHOLE CASTINGS, FIRE HYDRANTS, VALVE CAPS, ETC. THE COUNTY HAS THE RIGHT OF FIRST REFUSAL FOR ALL STEEL REMOVED FROM THE PROJECT.

RESTORATION

- 1. THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATION AND RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER. ANY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE REGRADED BY THE END OF THE SAME WORKDAY.
- 2. ALL EXISTING STORM AND SANITARY SEWER FACILITIES, INCLUDING TILE, DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED OR RECONNECTED TO THE EXISTING OR PROPOSED SYSTEM AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.





SCALE: AS SHOWN	ON	REVISION	DATE	
DATE: 04/09/2024				
DRAWN BY: MLB				
CHECKED BY: GBC				

ASHTABULA COUNTY DEPARTME
OF ENVIRONMENTAL SERVICES
BISHOP ROAD WATERMAIN
ASHTABULA COUNTY

PROJECT NO:

231064

SHEET NAME

G-04

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EXCAVATION, BACKFILL, AND COMPACTION

- 1. ALL UTILITY LINES (i.e. STORM SEWERS, STORM LATERALS, SANITARY LATERALS, WATER MAINS, WATER SERVICE CONNECTIONS, GAS MAINS, GAS SERVICE CONNECTIONS, UNDERGROUND OBT CONDUITS, CABLE T.V. LINES) CROSSING THE PROPOSED IMPROVEMENTS, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS OR REMOVED AND REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. NO ADDITIONAL COMPENSATION WILL BE PAID FOR THE ABOVE WORK. IF ANY OF THESE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF PAVEMENT. WORK WILL NOT BEGIN UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE ENGINEER.

MAINTENANCE OF TRAFFIC

- 1. A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT AND ITEM 614—TEMPORARY PAVEMENT MARKINGS. ACCESS TO ALL DRIVEWAYS SHALL ALSO BE MAINTAINED AT ALL TIMES EXCEPTING THE TIME WHEN CONCRETE CURB OR DRIVE APRONS ARE CURING. COST OF THIS WORK TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614—MAINTAINING TRAFFIC, COMPLETE.
- 2. PRIOR TO THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT TO THE COUNTY A PROPOSED PROJECT CONSTRUCTION SCHEDULE AND A DETAILED MAINTENANCE OF TRAFFIC PLAN. BOTH THE SCHEDULE AND MAINTENANCE OF TRAFFIC PLAN SHALL BE APPROVED BY THE COUNTY PRIOR TO THE START OF CONSTRUCTION. COST OF THIS WORK TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC, COMPLETE.
- 3. MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE AND SATISFACTORY LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, TO ALL ABUTTING PROPERTIES WITHIN THE PROJECT. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGMEN, CONSTRUCTION SIGNING AND OTHER TRAFFIC CONTROLS SO AS TO AVOID DAMAGE AND/OR INJURY TO AND ENSURE THE SAFETY OF VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION BOTH WITHIN AND OUTSIDE OF THE PROJECT LIMITS. COST OF THIS WORK TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC, COMPLETE.
- 5. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND ON THE ODOT STANDARD MAINTENANCE OF TRAFFIC DRAWINGS.

ENVIRONMENTAL PROTECTION - PROHIBITED CONSTRUCTION ACTIVITIES

- 1. LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS.
- 2. INDISCRIMINATE, ARBITRARY OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS OR OUTSIDE THE EASEMENT LIMITS.
- 3. PUMPING OF SEDIMENT—LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, STREAM CORRIDORS, WETLANDS OR STORM SEWERS; ALL SUCH WATER WILL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE.
- 4. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, WETLANDS, SURFACE WATERS, IMPOUNDMENTS OR INTO NATURAL OR MAN—MADE CHANNELS LEADING THERETO.
- 5. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM.
- 6. DAMAGING ANY VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
- 7. DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS OR AT UNSPECIFIED LOCATIONS.
- 8. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
- 9. STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES.
- 10. RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE OWNER AND THE CONSENT OF THE ENGINEER.
- 11. OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OF 8:00 A.M. AND 4:30 P.M. OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS.
- 12. CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER, AND CLOSING CLEAR ACCESS:
- BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES.
- BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS,
 QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE.
- BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS.

THE VILLAGE OF JEFFERSON AND AUSTINBURG TOWNSHIP WATER MAIN SPECIFICATIONS & NOTES REVISED: 02/20/2023

1. WATER MAINS (3" THROUGH 36") SHALL BE AWWA C909 DR 18 AND HDPE SHOULD BE USED FOR DIRECTLY DRILLED. ALL PIPES, UNLESS OTHERWISE SPECIFIED, SHALL BE FURNISHED WITH PUSH—ON TYPE JOINTS, SUCH AS TYTON OR FASTITE WITH RESTRAINED TYPE JOINTS PROVIDED WITHIN THE LENGTHS NOTED ON THE DRAWING, AND BE IN ACCORDANCE WITH ANSI/AWWA C111/A21.11.

RESTRAINED PUSH-ON JOINTS SHALL BE COMPLETELY BOLTLESS; MCWANE SUPER-LOCK, AMERICAN FLEX-RING, U.S. PIPE TR FLEX, OR AS APPROVED. RESTRAINED MECHANICAL JOINTS SHALL BE MEGALUG AS MANUFACTURED BY EBAA IRON, INC., OR AS APPROVED, OF DUCTILE IRON AND WITH A WORKING PRESSURE OF AT LEAST 250 PSI AND A MINIMUM SAFETY FACTOR OF 2:1. MINIMUM LENGTH OF CUT PIECES OF WATER MAIN THAT MAY BE REUSED IS 5 LF.

- 2. FITTINGS SHALL BE DUCTILE IRON AND MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C110/A21.10 OR ANSI/AWWA C153/A21.53 (FOR COMPACT FITTINGS). ALL FITTINGS AND ACCESSORIES SHALL BE FURNISHED WITH MECHANICAL TYPE JOINTS IN ACCORDANCE WITH ANSI/AWWA C111/A21.11.
- ALL FITTINGS, BENDS, TEES, PLUGS, ETC. SHALL BE TIED TO THE WATER MAIN WITH EITHER M.J. TYPE CONNECTIONS, TIE RODS OR MEGA-LUGS. TIE RODS SHALL BE 3/4" DIAMETER STAINLESS STEEL. FOR 8" DIAMETER PIPE USE FOUR RODS.
- 3. POLYETHYLENE ENCASEMENT SHALL BE AN 8 MIL. THICK POLYETHYLENE TUBE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C105/A21.5. POLYETHYLENE ADHESIVE TAPE, 2" WIDE, SHALL BE USED TO SEAL ALL JOINTS.
- 4. FIRE HYDRANTS SHALL BE POST TYPE WITH A BREAKABLE FLANGE DESIGN. THE MAIN VALVE SHALL BE 5¼", OPENING LEFT WITH ONE 4½" STEAMER/PUMPER NOZZLE AND TWO 2½" HOSE NOZZLES, ALL WITH NATIONAL STANDARD THREADS UNLESS OTHERWISE SPECIFIED. THE OPENING NUT SHALL BE PENTAGONAL IN SHAPE. HYDRANTS SHALL HAVE A 6" MECHANICAL JOINT TYPE SHOE WITH A 5'-0" BURY DEPTH. HYDRANTS SHALL BE SHIPPED WITH A RED UPPER BARREL, WHITE BONNET, AND WHITE CAPS ON ALL NOZZLES MEETING ALL STANDARDS OF AWWA C502.

NOTE - FIRE HYDRANT ASSEMBLIES SHALL CONSIST OF:

- A. MECHANICAL JOINT ANCHOR TEE
- B. 6" M.J. x M.J. GATE VALVE AND BOX
 C. 6" DUCTILE IRON PIPE (LENGTH VARIES)
- D. FIRE HYDRANT (SEE ABOVE)
- E. ALL NECESSARY APPURTENANCESF. 5¼" EXTENSION KIT (IF REQUIRED)
- 5. GATE VALVES SHALL BE RESILIENT SEAT, NON-RISING STEM WITH MECHANICAL JOINT TYPE ENDS WHICH MEET THE REQUIREMENTS OF AWWA C509. MECHANICAL JOINT ENDS SHALL COMPLY WITH AWWA C111; EXCEPT FOR TAPPING VALVES. THE OPERATING NUT SHALL BE 2" SQUARE, WHICH OPENS TO THE LEFT. VALVES SHALL COME EQUIPPED WITH A DOUBLE O-RING SEAL STUFFING BOX AND HAVE AN EPOXY COATING ON ALL EXTERIOR SURFACES WHICH COMPLIES WITH AWWA C550.
- 6. BUTTERFLY VALVES SHALL BE OF THE SIZE SHOWN ON THE PLANS AND MEET OR EXCEED ALL APPLICABLE REQUIREMENTS OF ANSI/AWWA C-504 WITH A MAXIMUM WORKING PRESSURE OF 250 PSIG. THE VALVE SHALL HAVE A DUCTILE IRON BODY CONFORMING TO ASTM A-536 WITH MECHANICAL JOINT ENDS. ALL EXTERIOR SURFACES SHALL HAVE AN EPOXY COATING WHICH COMPLIES WITH AWWA C-550. THE ACTUATOR SHALL BE MANUALLY OPERATED WITH A 2" SQUARE NUT, WHICH OPENS COUNTER CLOCKWISE (LEFT).
- 7. VALVE BOXES SHALL BE CAST IRON, TWO PIECE SCREW TYPE, 5¼" DIA. CONFORMING TO ASTM A-126. EACH PIECE SHALL BE COATED, INSIDE AND OUTSIDE WITH A COAL-TAR PITCH VARNISH, SIMILAR TO THAT USED FOR COATING CAST IRON PIPE. HEIGHT RANGE OF BOX ASSEMBLED SHALL BE 36" TO 60". EACH BOX SHALL INCLUDE A CAST IRON LID WITH THE WORD "WATER" CAST INTO THE TOP. ALL VALVE BOXES SHALL INCLUDE ONE 1½" VALVE BOX RISER.
- 8. WATER MAINS SHALL TYPICALLY HAVE 4'-6" OF COVER, MEASURED FROM THE TOP OF PIPE VERTICALLY TO THE FINAL FINISH GROUND GRADE OR AS SHOWN SPECIFICALLY ON THE PLANS OR AS DIRECTED BY THE COUNTY.
- 9. TAPPING SLEEVES SHALL HAVE A STAINLESS STEEL BODY WITH A DUCTILE IRON FLANGED OUTLET WHICH COMPLIES WITH ANSI B16.1, CLASS 125 AND WITH MSS SP-60. THE GASKET SHALL COMPLETELY SURROUND THE INSIDE OF THE STAINLESS STEEL BODY. THE SLEEVE SHALL COME EQUIPPED WITH A ¾ NPT BRASS TEST PLUG. MAXIMUM WORKING PRESSURE FOR 4" 12" SIZES (250 psig) AND FOR 14" 24" SIZES (200 psig).

TAPPING VALVES SHALL MEET OR EXCEED ALL APPLICABLE REQUIREMENTS OF ANSI/AWWA C509. THE INLET FLANGE SHALL COMPLY WITH ANSI B16.1, CLASS 125 DRILLING. THE MECHANICAL JOINT OUTLET SHALL COMPLY WITH ANSI/AWWA C111. THE VALVE SHALL HAVE A NON-RISING STEM (NRS). THE OPERATING NUT SHALL BE 2" SQUARE, WHICH OPENS TO THE LEFT. VALVES SHALL COME EQUIPPED WITH A DOUBLE O-RING SEAL STUFFING BOX AND HAVE AN EPOXY COATING ON ALL EXTERIOR SURFACES WHICH COMPLIES WITH AWWA C550.

- 10. BLOW-OFF HYDRANT ASSEMBLIES SHALL BE ECLIPSE MODEL NO. 85, AS MANUFACTURED BY THE KUPFERLE FOUNDRY COMPANY (1-800-231-3990), OR APPROVED EQUAL. ASSEMBLIES SHALL BE SELF-DRAINING, NON-FREEZING, COMPRESSION TYPE WITH 2-3/16" MAIN VALVE OPENING. THE INLET CONNECTION SHALL BE 2"IP. THE OUTLET SIZE SHALL BE 2-1/2" NST. HYDRANT SHALL HAVE A CAST IRON BOX, LOCKING LID, AND 3" DUCTILE IRON RISER PIPE. THE INTERIOR OPERATING PARTS SHALL BE BRASS AND BE REMOVABLE FROM THE HYDRANT FOR SERVICING WITHOUT EXCAVATING THE HYDRANT. THE ASSEMBLY SHALL BE SET IN A MINIMUM FOUR (4) CUBIC FEET OF #57 WASHED STONE. THE DEPTH OF BURY SHALL BE 5'-6". THE TOP OF THE ASSEMBLY SHALL BE FLUSH WITH THE FINAL GRADE OF THE ADJACENT GROUND.
- 11. WATER SERVICE PIPE, 2" OR LESS, SHALL BE AS NOTED ON PLANS AND SPECIFICATIONS. SIZE SHALL BE AS NOTED ON THE PLANS (1" MINIMUM). ALL PIPES SHALL HAVE COMPRESSION ENDS. MINIMUM COVER OVER THE PIPE SHALL BE FOUR (4) FEET (6) INCHES.
- 12. CORPORATION STOPS SHALL BE A GROUND KEY DESIGN, CAST FROM BRASS ALLOY, CONFORMING TO ANSI/AWWA C800. INLET END SHALL HAVE AWWA TAPER THREADS; OUTLET END SHALL HAVE A COPPER COMPRESSION QUARTER BEND CONNECTION.
- 13. CURB VALVES (STOPS) SHALL BE A ONE PIECE DESIGN, CAST FROM A BRASS ALLOY, CONFORMING TO ANSI/AWWA C800, HAVE A MAXIMUM WORKING PRESSURE OF 175 PSIG, AND HAVE A QUARTER TURN CHECK. BOTH ENDS SHALL HAVE COPPER COMPRESSION FITTINGS. CURB VALVES SHALL BE BURIED TO A MINIMUM DEPTH OF 4 FEET AND A MAXIMUM DEPTH OF 5 FEET.

- 14. CURB BOXES SHALL BE CAST IRON, TWO PIECE SCREW TYPE, ADJUSTABLE TO A TOTAL HEIGHT BETWEEN 48 INCHES TO 60 INCHES. LIDS SHALL BE CAST IRON WITH THE WORD "WATER" CAST INTO THE TOP. LIDS SHALL BE SECURED WITH ONE BRASS PENTAGONAL HEAD SCREW. ALL BOXES SHALL BE LOCATED WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE COUNTY.
- 15. SERVICE FITTINGS TO CONNECT TO EXISTING WATER SERVICES WHICH ARE NOT 1" DIAMETER COPPER SHALL BE A MUELLER H-15425, SMITHBLAIR 525, OR EQUAL.
- 16. BEFORE TESTING THE WATER MAIN, THE SYSTEM SHALL BE FLUSHED ACCORDING TO THE MOST CURRENT PROCEDURES SET FORTH BY THE COUNTY WATER DEPT. CALL 330-669-2633 FOR THE MOST RECENT PROCEDURES. ALL LEAKS SHALL BE LOCATED AND REPAIRED BY THE CONTRACTOR. ALL WATER SAMPLES SHALL BE OBTAINED AND TESTED BY THE COUNTY.
- 17. WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA C600. ALL TEST RESULTS MUST BE APPROVED BY THE COUNTY BEFORE INSTALLATION OF WATER SERVICES. COST SHALL BE SUBSIDIARY TO THE INSTALLATION OF WATER MAIN. TEST PRESSURE SHALL BE 150 PSI.
- 18 WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. COST SHALL BE SUBSIDIARY TO THE INSTALLATION OF WATER MAIN.
- 19. THE PROPOSED WATER SYSTEM SHALL MAINTAIN A MINIMUM STATIC PRESSURE OF 35psi Delivered to the curb stop during normal operating conditions.
- 20. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS. THE VILLAGE MAY GRANT SPECIAL PERMISSION FOR BUILDINGS SIX STORIES AND HIGHER.
- 21. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10 FOOT HORIZONTAL SEPARATION AND 18 INCH VERTICAL SEPARATION BETWEEN THE PROPOSED WATER MAIN AND EXISTING STORM SEWERS AS MEASURED FROM OUTSIDE EDGE TO OUTSIDE EDGE UNLESS NOTED ON THE PLAN AND PROFILE SHEETS.
- 22. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10 FOOT HORIZONTAL SEPARATION AND 18 INCH VERTICAL SEPARATION BETWEEN THE PROPOSED WATER MAIN AND EXISTING SANITARY SEWERS FROM OUTSIDE EDGE TO OUTSIDE EDGE.
- 23. THE CONTRACTOR SHALL NOT OPERATE OR TURN ANY EXISTING WATER VALVE. IF VALVES NEED TO BE OPENED OR CLOSED HE SHALL NOTIFY THE COUNTY.
- 21. ALL ROUGH GRADING TO WITHIN SIX (6) INCHES OF FINISH GRADE SHALL BE COMPLETED OVER THE PROPOSED WATER MAIN PRIOR TO IT'S INSTALLATION.
- 22. THE COUNTY SPECIFICATIONS SUPPLEMENTED WHERE NECESSARY BY THE OHIO DEPT. OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (CURRENT EDITION) SHALL GOVERN THE INSTALLATION OF WATER MAIN AND ASSOCIATED APPURTENANCES.
- 23. THE LOCATION OF EXISTING WATER UTILITIES AS SHOWN ON THESE PLANS WERE DETERMINED FROM AVAILABLE DATA AT THE TIME OF FIELD SURVEYING IN ACCORDANCE WITH SECTION 153.63 OF THE OHIO REVISED CODE.
- 24. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, PAYING ALL FEES, AND FOLLOWING ALL REQUIREMENTS ASSOCIATED WITH THE PERMITS. THE COUNTY ASSUMES NO LIABILITY FOR NOT FOLLOWING THE ABOVE.
- 25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OHIO UTILITY PROTECTION SERVICE (OUPS) AS REQUIRED BY LAW.
- 26. NO WATERLINE TIE—INS SHALL BE DONE ON FRIDAYS OR THE DAY BEFORE A COUNTY HOLIDAY.
- 27. DEFLECT WATER MAIN AS REQUIRED TO MAINTAIN ALIGNMENT AS SHOWN ON PLANS. MAXIMUM DEFLECTION IS 3 DEGREES PER JOINT.
- 28. TEMPORARY BLOW-OFF AND FLUSHING ASSEMBLY
- A. PIPE SHALL BE TYPE K COPPER WITH COMPRESSION FITTINGS

B. CORPORATION STOPS SHALL BE GROUND KEY DESIGN, CAST FROM A BRASS ALLOY AND CONFORM TO AWWA C800. INLET END SHALL HAVE AWWA TAPER THREADS. OUTLET END SHALL HAVE COPPER COMPRESSION QUARTER BEND CONNECTION. ALL TAPS SHALL BE MADE ON TOP OF THE WATER MAIN. CORPORATION STOPS AND QUARTER BENDS SHALL BE BLOCKED.

C. CURB VALVES (STOPS) SHALL BE ONE PIECE DESIGN, CAST FROM A BRASS ALLOY, CONFORM TO AWWA C800, HAVE A MAXIMUM WORKING PRESSURE OF 175 PSIG AND HAVE A QUARTER TURN CHECK. BOTH ENDS SHALL HAVE COPPER COMPRESSION FITTINGS.

D. LOCATIONS SHALL BE AS SHOWN ON THE DRAWINGS, AT A MINIMUM. CONTRACTOR SHALL INSTALL ADDITIONAL ASSEMBLIES AS NEEDED TO EXHAUST AIR AND TO COMPLY WITH REGULATIONS REGARDING PRESSURE TESTING, BACTERIA SAMPLING AND FLUSHING.

E. AT COMPLETION OF TESTING, CLOSE CORPORATION STOP, REMOVE COPPER PIPING AND INSERT PLUG ON CORPORATION STOP.

F. NO SEPARATE PAYMENT SHALL BE MADE FOR TEMPORARY BLOW-OFFS AND FLUSHING

your trusted advisor

Consultants

architects

planners

OUNTY DEPARTMENT	SCALE: AS SHOWN	NO REVISION	DATE	
MENITAL DEDVICES				
	DATE: 04/09/2024			
NOAD WATERWAIN JEFFERSON, OHIO	DESIGNED BY: MLB			you
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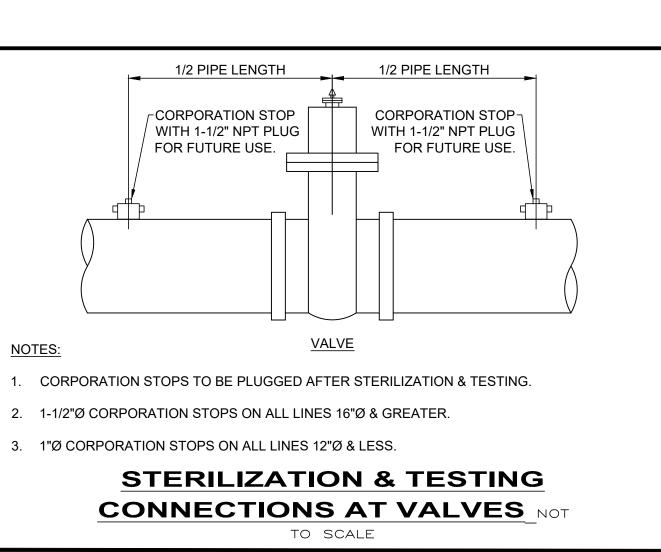
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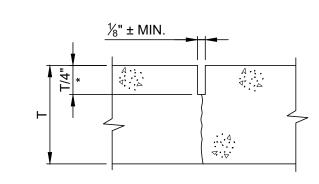
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SHEET

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NOTES:

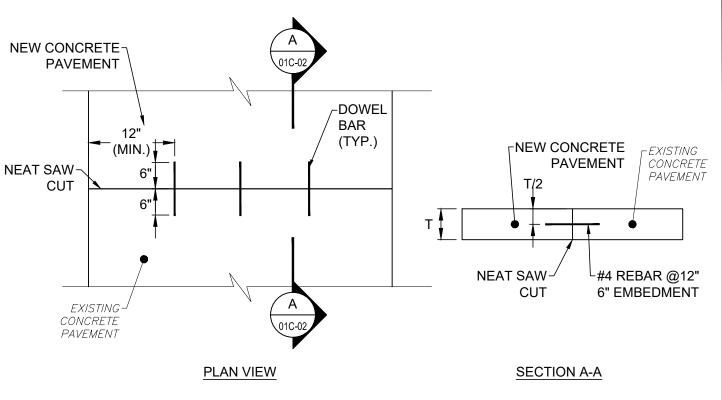
- 1. CONTROL JOINTS ARE THAT ARE TOOL CUT SHALL BE FILLED WITH JOINT SEALANT.
- 2. CONTROL JOINT SPACING SHALL EQUAL NEW SIDEWALK WIDTH, ADD ADDITIONAL DIAGONAL JOINTS AS NECESSARY TO CONTROL CRACKING AT ANGLES, BUILDS OR OR STRUCTURES.

CONTROL JOINT TYPE "C.J."

@ 18" C-C

NOT TO SCALE

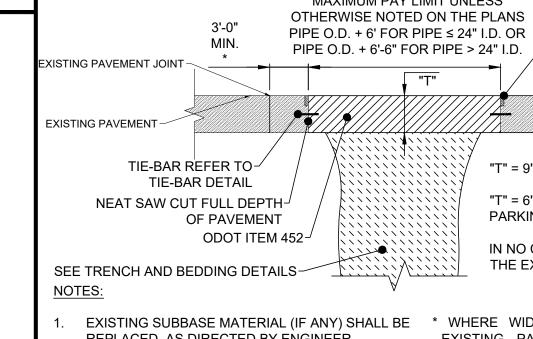
2000 PSI MIN. -



TIE BAR DETAIL

NOT TO SCALE

MAXIMUM PAY LIMIT UNLESS



- REPLACEMENT SHALL BE REINFORCED AS PER O.D.O.T. ITEM 709.10 OR 709.12 IF EXISTING PAVEMENT IS REINFORCED.
- 5/8"Ø HOOKBOLT @ 30" O.C. MAY BE REQUIRED UNIT PRICE BID.

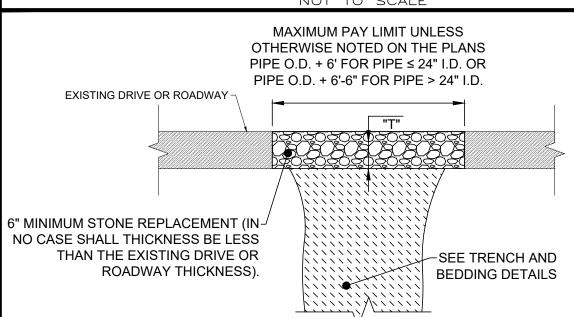
WHERE WIDTH IS LESS THAN 3'-0" OR EXISTING PAVEMENT IS DETERIORATED, THE CONTRACTOR SHALL REPLACE ADDITIONAL PAVEMENT AS DIRECTED BY THE ENGINEER. PAYMENT FOR ADDITIONAL PAVEMENT REPLACEMENT AS DIRECTED BY THE ENGINEER SHALL BE AT THE SAME

MIN. 2" DEEP $\frac{1}{4}$ " WIDE ± $\frac{1}{16}$ "

JOINT TO BE SEALED WITH

ODOT ITEM 705.04

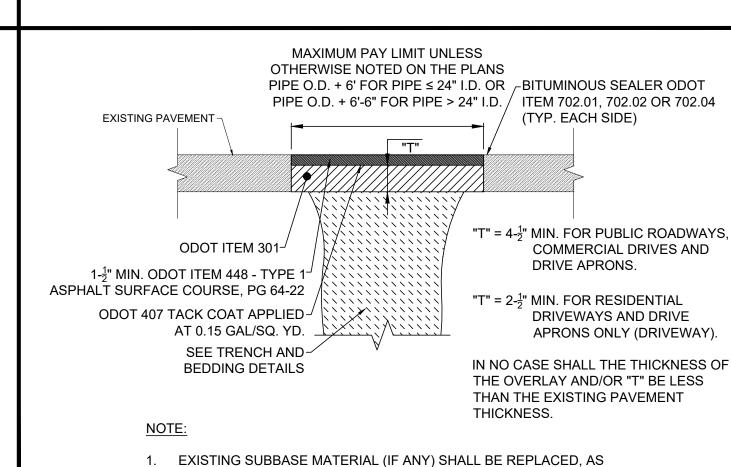
TYPE A PAVEMENT REPLACEMENT



1. REPLACEMENT MATERIAL SHALL BE THE SAME TYPE AND

TYPE F PAVEMENT REPLACEMENT

NOT TO SCALE



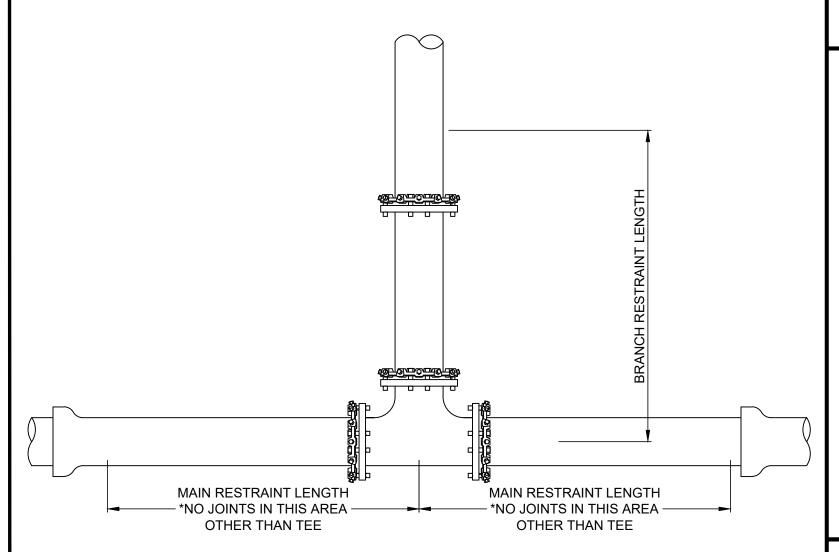
DIRECTED BY ENGINEER.

TYPE C PAVEMENT REPLACEMENT

NOT TO SCALE

MAIN RESTRAINT MAIN RESTRAINT LENGTH

TYPICAL HORIZONTAL BEND RESTRAINT

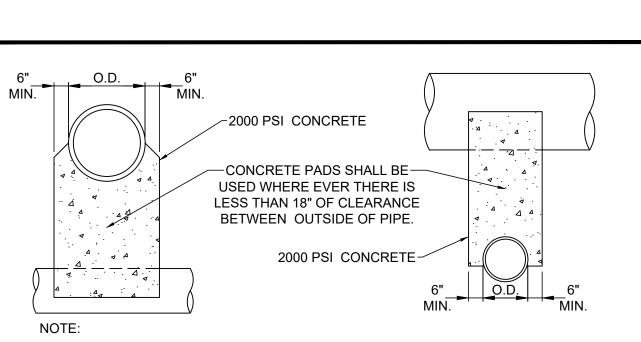


TYPICAL HORIZONTAL TEE RESTRAINT

NOT TO SCALE

	0 0	STRAIN TAB ARD FITTING	
FITTING	SIZE	MINUMUM MAIN RESTRAINT LENGTH	MINUMUM MAIN RESTRAINT LENGTH*
HORIZONTAL	FITTINGS		
45° BEND	12"	16'	
TEE**	12" X 6"		1'
TEE**	12" X 14"		1'

*ALL JOINTS WITHIN THE CALCAULTED LENGTH MUST BE RESTRAINED. **A MINIMUM ATTACHED LENGTH OF PIPE OF 20FT TO EXTEND IN EACH DIRECTION ALING THE RUN OF THE TEE WAS ASSUMED TO CALCUALTE THE RESTRAINED LENGTH ALONG THE BRANCH. THE LENGTH OF PIPE ALONG THE RUN MUST BE PF SOLID PIPE WITHOUT JOINTS, FITTINGS, ETC.



OUTSIDE DIA.

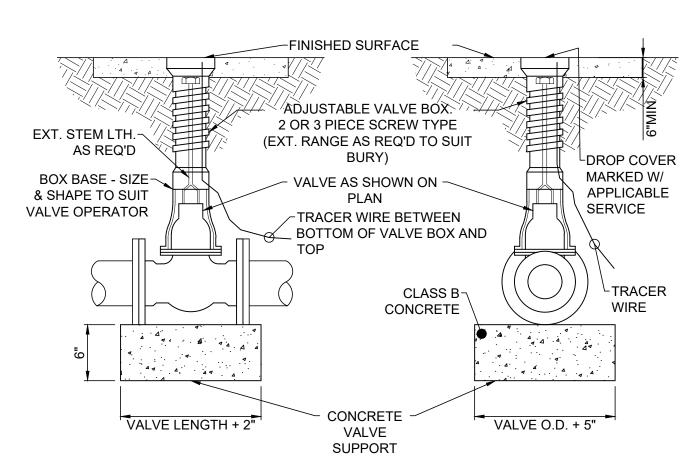
TYPICAL PIPE ENCASEMENT

NOT TO SCALE

UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WHERE TWO PIPES (SEWER & WATER) CROSS EACH OTHER, A CONCRETE PAD AND CRADLE SEPARATOR SHALL BE PLACED BETWEEN THEM AS INDICATED ABOVE. WHERE PERMISSION IS GRANTED TO OMIT THE CONCRETE PADS, GRANULAR BACKFILL SHALL BE TAMPED IN 6" LAYERS AROUND BOTH PIPES. SUCH TAMPED BACKFILL SHALL BE CONTINUOUS FROM THE CRADLE OF THE LOWER PIPE TO THE TOP OF THE UPPER PIPE AND AT THE BOTTOM SHALL EXTEND IN BOTH DIRECTIONS, FOR THE FULL WIDTH OF THE TRENCH.

PIPE CROSSING DETAIL

NOT TO SCALE



TYPICAL VALVE AND VALVE BOX SETTING NOT TO SCALE

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PROJECT NO:

231064

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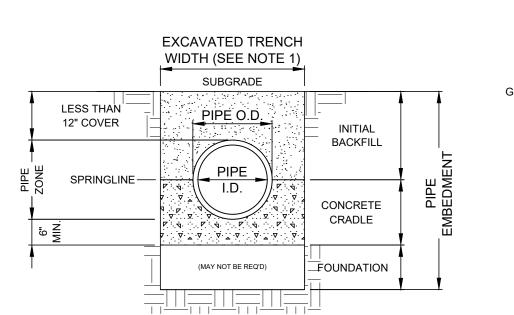
CONWAY

"T" = 9" MIN. FOR ROADWAY "T" = 6" MIN. FOR DRIVEWAYS OR PARKING AREAS IN NO CASE SHALL "T" BE LESS THAN THE EXISTING PAVEMENT THICKNESS REPLACED, AS DIRECTED BY ENGINEER.

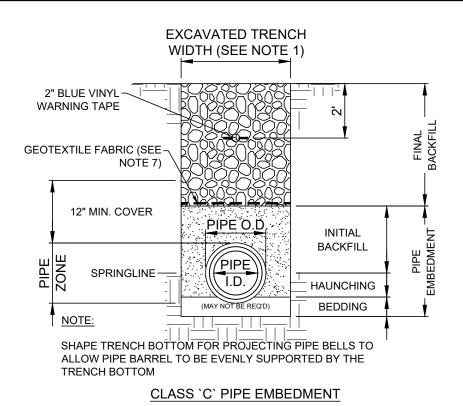
AS DIRECTED BY THE ENGINEER.

NOT TO SCALE

SIZE AS EXISTING.



EXCAVATED TRENCH WIDTH (SEE NOTE 1) 2" BLUE VINYL-WARNING TAPE GEOTEXTILE FABRIC (SEE-NOTE 7) 12" MIN. COVER BACKFILL SPRINGLINE-HAUNCHING FOUNDATION (MAY NOT BE REQ'D) 6" MIN. OR ¹/₈ PIPE I.D., WHICHEVER IS GREATER



CLASS `A` PIPE EMBEDMENT CLASS 'B' PIPE EMBEDMENT

←EDGE OF PAVEMENT OR STRUCTURE

SPECIAL-

BACKFILL MATERIAL

BACKFILL

MATERIAL

CONDUIT

TRANSVERSE

ZONE OF INFLUENCE

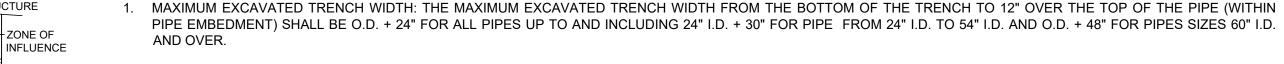
PARALLEL ZONE OF INFLUENCE

-EDGE OF PAVEMENT OR

-ZONE OF

INFLUENCE

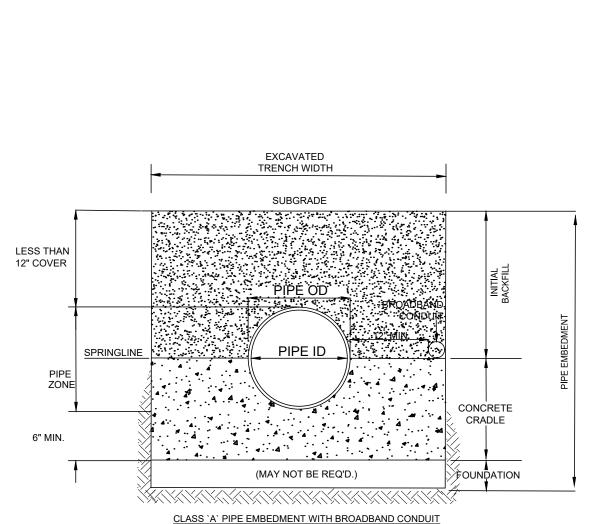
STRUCTURE

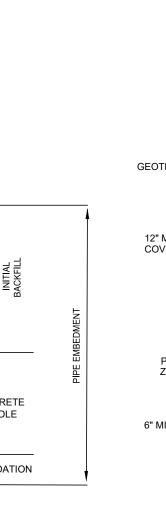


- 2. FOUNDATION: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER.
- 3. PIPE EMBEDMENT:
- CLASS A: CLASS A PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS "C". THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
- CLASS B: CLASS B PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. THE BEDDING AND HAUNCHING SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS OUTSIDE OF PAVEMENT STRUCTURES OR THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER FOR ONLY REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE. THE INITIAL BACKFILL FOR ALL OTHER PIPES SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
- CLASS C: CLASS C PIPE EMBEDMENT SHALL ONLY BE USED FOR DUCTILE IRON WATER MAIN, DUCTILE IRON FORCE MAINS OR AS AUTHORIZED BY THE ENGINEER. THE PIPE EMBEDMENT SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. THE PIPE EMBEDMENT SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE. WHERE ROCK OR SHALE IS ENCOUNTERED, A MINIMUM 6-INCHES OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE BEDDING OR SAND BEDDING SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
- 4. FINAL BACKFILL: IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE THE FINAL BACKFILL SHALL BE SPECIAL BACKFILL MATERIAL. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER.
- 5. SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 02300CT EARTHWORK.
- 6. GEOTEXTILE FABRIC: INSTALL A GEOTEXTILE FABRIC IN ACCORDANCE WITH ODOT 712.09, TYPE A, AFTER ALL INITIAL BACKFILL CONSISTING OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
- 7. DETECTOR TAPE: IF REQUIRED IN THE SPECIFICATIONS, INSTALL DETECTABLE WARNING TAPE ABOVE UTILITIES, 24" BELOW FINISHED GRADE, EXCEPT 6 INCHES BELOW

TRENCHING, EMBEDMENT, AND BACKFILL DETAIL

NOT TO SCALE





CLASS 'A' PIPE EMBEDMENT WITH BROADBAND CONDUIT N.T.S.

CONDUIT SPECIFICATIONS:

- MATERIAL: STANDARD SMOOTHWALL HDPE.
- MANUFACTURER: DURALINE OR APPROVED EQUIVALENT
- DIAMETER: 2"
- MAIN BREAK. A PULL TAPE SHALL BE INSTALLED I THE CONDUIT TO FACILITATE FUTURE CABLE INSTALLATION. AFTER CONDUIT HAS BEEN INSTALLED, THE CONTRACTOR SHALL ENSURE THE PULL
- ON OPPOSITE SIDE OF THE ROAD, TO REDUCE THE RISK ON CONDUIT BEING DAMAGED BY A WATER TAPE CAN MOVE FREELY INDICATING NO OBSTRUCTIONS IN THE CONDUIT
- IDENTIFICATION: INCLUDE BURIED WARNING TAPE ABOVE THE CONDUIT IN ACCORDANCE WITH 5. PULL CHAMBERS SHALL BE PLACED AT ROAD INTERSECTIONS AND INTERVALS NO EXCEEDING SPECIFICATION 310000

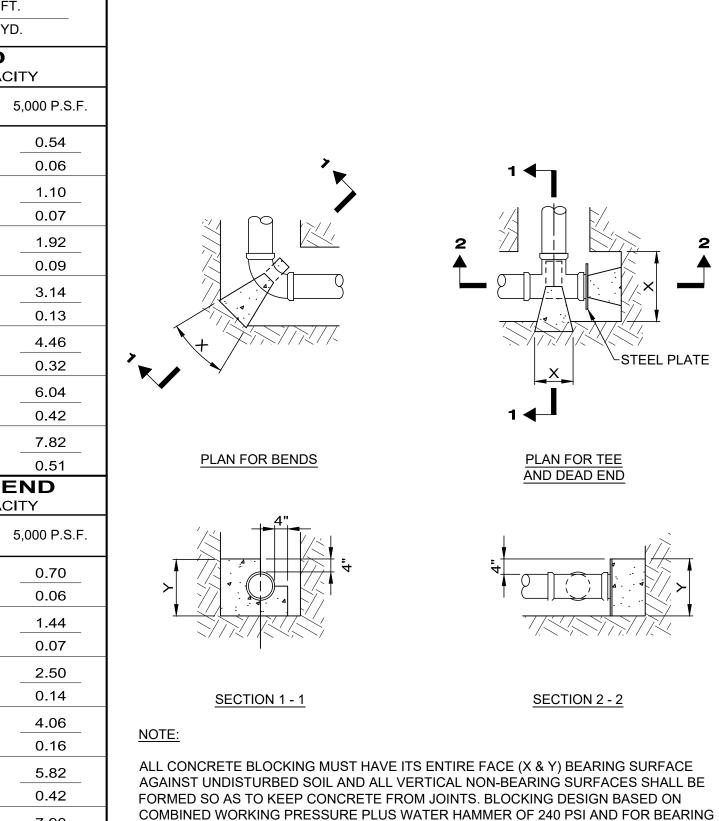
H:\2023\231064\DWG\SHEETS\G_231064 - CONSTRUCTION DETAILS.DWG - 6 CONSTRUCTION DETAILS - 12/21/2023 9:58:15 AM - MAGDALENA BORL

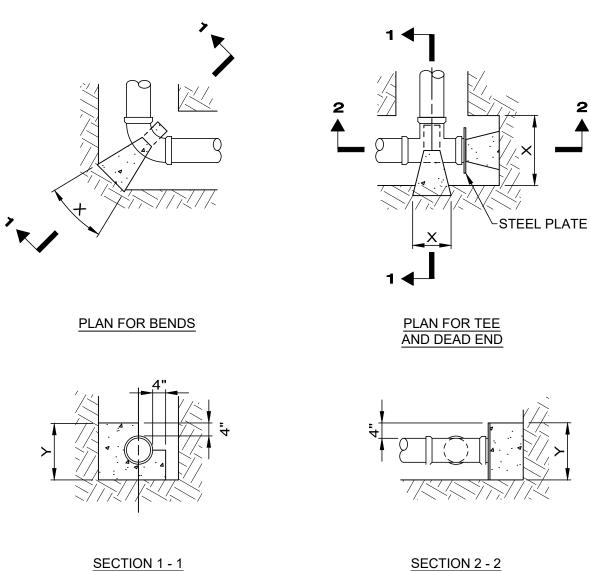
TRENCH WIDTH GEOTEXTILE FABRIC COVER PIPE ZONE HAUNCHING 6" MIN. FOUNDATION (MAY NOT BE REQ'D.)

HANDHOLE / PULL CHAMBER SPECIFICATIONS:

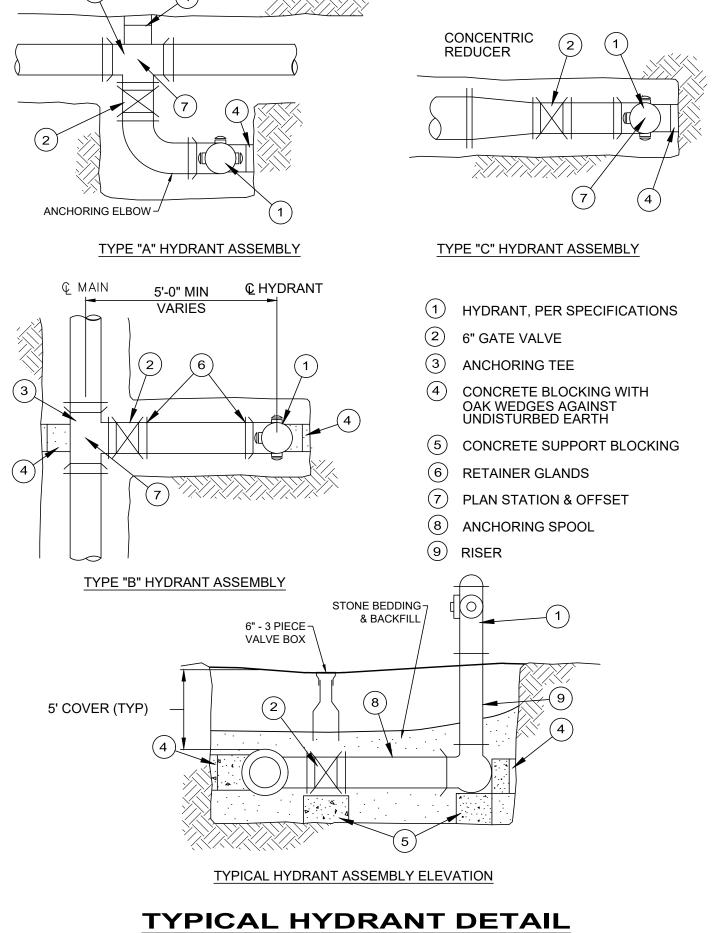
- HANDHOLES ARE UNDERGROUND ENCLOSURES FOR PULLING OF CABLES, INSPECTIONS, AND REPAIRS.
- 2. CONDUIT SHALL ENTER VAULTS FROM THE SIDEWALL THROUGH OPENINGS CREATED PER MANUFACTURER INSTRUCTIONS.
- 3. CONDUIT SHALL PROTRUDE BEYOND EXTERIOR WALL OF THE VAULT BETWEEN 1 AND 3 INCHES.
- MAKE AND MANUFACTURER: HUBBEL 24" X 36" X 24" POLYMER CONCRETE BOX OR APPROVED EQUIVALENT.
- **BROADBAND CONDUIT DETAIL**

5	SIZING SO	CHEDULE	BEARING FACE (X Y) IN SQ. FT. CONCRETE VOLUME IN CU. YD.			
PIPE SIZE	22-1/2 [%] BEND SOIL BEARING CAPACITY			45⁸ BEND SOIL BEARING CAPACITY		
	1,000 P.S.F.	3,000 P.S.F.	5,000 P.S.F.	1,000 P.S.F.	3,000 P.S.F.	5,000 P.S.F.
4	1.40 0.14	0.46	0.26	2.70 0.12	0.90	0.54
6	2.80	0.93	0.56	5.50	1.83	1.10
8	1.15 4.80	1.60	0.96	9.60	3.20	1.92
10	7.90	2.63	1.96	0.23 15.70	5.23	3.14
12	0.53	3.76	2.26	22.30	7.43	0.13 <u>4.46</u>
14	0.62 15.30	0.40 5.10	0.26 3.06	0.75	0.49	0.32 6.04
	0.74 19.80	0.48 6.60	0.31 3.96	0.98 39.10	0.64 13.03	0.42 7.82
16	1.17	0.76	0.49	1.21	0.79	0.51
PIPE	90°°° BEND SOIL BEARING CAPACITY			TEE OR DEAD END SOIL BEARING CAPACITY		
SIZE	1,000 P.S.F.	3,000 P.S.F.	5,000 P.S.F.	1,000 P.S.F.	3,000 P.S.F.	5,000 P.S.F.
4	<u>4.90</u> 0.14	1.63 	0.96	3.50 0.12	1.16 0.06	0.70
6	10.20	3.40	2.04	7.20	2.40	1.44
8	<u>17.70</u> 0.35	<u>5.54</u> 0.23	<u>3.54</u> 0.15	<u>12.50</u> 0.25	<u>4.16</u> 0.16	2.50
10	<u>28.90</u> 0.54	9.60	<u>5.76</u> 0.23	<u>20.40</u> 0.38	6.80 0.25	<u>4.06</u> 0.16
12	<u>41.10</u> 1.31	<u>13.70</u> 0.85	8.22 0.55	<u>29.10</u> 0.97	9.70	<u>5.82</u> 0.42
14	<u>55.80</u> 1.70	<u>18.60</u> 1.11	<u>11.16</u> 0.72	39.50 1.22	13.16 0.79	7.90
16	72.20 2.14	<u>24.06</u> 1.39	<u>14.44</u> 0.90	<u>51.10</u> 1.54	17.03	10.22 0.65





THRUST BLOCKING DETAIL



NO LINE VALVE BETWEEN BENDS VARIES - ADJUST FOR USE OF BENDS & THRUST ~2-LAYERS 15# FIELD CONDITIONS BLOCKS OR JOINT TAR PAPER DEFLECTION TO BE DETERMINED IN FIELD FOR CONCRETE EACH CROSSING EXISTING CRADLE TO BE PIPE FULL WIDTH OF TRENCH COMPACTED SAND PROPOSED PRESSURE PIPE CONCRETE CRADLE CONDITIONS "X" DIMENSION REQUIREMENTS IF SANITARY OR STORM SEWER PIPE

CAPACITY FOR SAND - 1000 PSF, SAND AND GRAVEL - 3000 PSF, SHALE - 5000 PSF.

IMPROVEMENT TRENCH LIMIT

IF CROSSING SPACE IS LESS THAN MIN

AND USE CONCRETE

SPACE OF CRADLE BELOW PIPE BOTTOM

NOT TO SCALE

- 1. 6" FOR WATERLINE CROSSING (ALSO FOR GAS & JOINT IS WITHIN PROPOSED O.B.T. LINES W/ NO CRADLE NEEDED)
- 2. 18" FOR SANITARY OR STORM SEWER PIPE IF CROSSING A WATERLINE AT ANY POIN
- 3. IF CROSSING SPACE IS MORE THAN MIN. SPACE OF CRADLE BELOW PIPE BOTTOM PLUS AFOREMENTIONED "X" DIMENSION THEN EXTEND PLUS "X" DIMENSION THEN OMIT SAND FILL "X" DIMENSION TO MAKE UP DIFFERENCE

PIPE LOWERING DETAIL NOT

TO SCALE

SH OF PROJECT NO: 231064 SHEET NAME G-07 15

GFORGIA

CONWAY

E-85401

CONTRACTOR'S RESPONSIBILITIES:

- CONTRACTORS MUST USE ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT THE FILL MATERIAL ASSOCIATED WITH THIS PROJECT QUALIFIES AS CLEAN FILL. DEFINITIONS OF CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE ARE PROVIDED BELOW.
- 2. CLEAN FILL: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSIBLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE) REFER TO STANDARD DETAILS AND PROJECT MANUAL FOR SPECIFIC PROJECT REQUIREMENTS.
- 3. ENVIRONMENTAL DUE DILIGENCE: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTIC TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL
- 4. FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.

SITE RESTORATION:

- 1. ALL DISTURBED PROPERTY SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION, AS NEAR AS POSSIBLE WITHIN 20 DAYS.
- 2. ONCE AN AREA IS GRADED TO ITS FINAL GRADE IT MUST BE STABILIZED WITH THE PERMANENT SEED MIX SPECIFICATION ACCORDING TO ITS SLOPE.

INSPECTION AND MAINTENANCE:

- 1. ALL EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE INSPECTED WEEKLY AND AFTER EACH
- 2. FABRIC FENCES: REPAIR DAMAGE TO FENCES. BACKFILL UNDERCUTTING. OVERTOPPED AREAS SHALL BE REPLACED WITH AN OUTLET ROCK FILTER. IF SEDIMENT REACHES ONE HALF THE FENCE HEIGHT, IT SHALL BE REMOVED AND PLACED IN THE TOPSOIL AND FILL STOCKPILE AREA. REPLACEMENT FENCE AND STAKES SHALL BE KEPT ON SITE.
- CONSTRUCTION ENTRANCE: WHEN UTILIZED, INSPECTED DAILY, EXCESS SEDIMENT SHALL BE REMOVED AND STORED IN THE TOPSOIL AND FILL STOCKPILE AREA AND USED AS FILL OR ROAD SUBBASE. A STOCKPILE OF REPLACEMENT ROCK SHALL BE KEPT ON SITE.

GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF SEDIMENTATION AND EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AS OUTLINED HEREIN. AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE COUNTY SOIL CONSERVATION DISTRICT AND THE PENNSYLVANIA DEPARTMENT OF **ENVIRONMENTAL PROTECTION.**
- 2. ALL EROSION CONTROL MEASURES SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN ARE TO BE INSTALLED PRIOR TO BEGINNING ANY OTHER EARTH DISTURBING ACTIVITY.
- 3. EROSION AND SEDIMENT BMPs (BEST MANAGEMENT PRACTICES) MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTRIBUTION BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPs.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING INSPECTIONS OF ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER ALL STORMS THAT PRODUCE MORE THAN 1/2" TOTAL RAINFALL. ANY NEEDED REPAIRS SHALL BE PERFORMED IMMEDIATELY.
- 5. THE CONTRACTOR SHALL DOCUMENT ALL INSPECTIONS AND REPAIRS THAT ARE DONE TO MAINTAIN EFFICIENCY. COPIES OF EROSION CONTROL INSPECTION REPORTS SHALL BE SUBMITTED TO THE COUNTY SOIL CONSERVATION DISTRICT. CONTRACTOR SHALL USE DEP FORM 3150-FM-BWEW0083, VISUAL SITE INSPECTION REPORT.
- 6. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED. TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMPs MUST BE STABILIZED IMMEDIATELY.
- 7. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPs FAIL TO PERFORM AS EXPECTED. REPLACEMENT BMPs. OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

RECYCLING/DISPOSAL OF WASTE REQUIREMENTS:

- 1. ALL CONSTRUCTION/DEMOLITION WASTE MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED IN ACCORDANCE WITH THE DEPARTMENTS SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET. SEQ., 287.1 ET. SEQ., THIS INCLUDES SOLID WASTE RESULTING FROM THE CONSTRUCTION OR DEMOLITION OF BUILDINGS OR OTHER STRUCTURES, INCLUDING BUT NOT LIMITED TO: WOOD, PLASTER, METALS, ASPHALTIC SUBSTANCES, BRICKS, BLOCK AND UNSEGREGATED CONCRETE. THIS DOES NOT INCLUDE: UNCONTAMINATED SOIL, ROCK, STONE, GRAVEL, BRICK, BLOCK, CONCRETE, USED ASPHALT, WASTE FROM LAND CLEARING, GRUBBING AND EXCAVATION, INCLUDING TREES, BRUSH, STUMPS AND VEGETATIVE MATERIAL IF THEY ARE SEPARATE FROM OTHER WASTE AND ARE USED AS CLEAN FILL.
- 2. CONSTRUCTION WASTES (INCLUDING BUT NOT LIMITED TO EXCESS SOIL, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC.) ARE TO BE DISPOSED OF OR RECYCLED AT APPROPRIATE, PERMITTED FACILITIES.
- 3. THE CONTRACTOR MUST USE ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT THE FILL MATERIAL ASSOCIATED WITH THIS PROJECT (IF ANY) QUALIFIES AS CLEAN FILL MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ANY REQUIRED PERMITS.
- 4. ANTICIPATED CONSTRUCTION WASTE:
- A. FILL MATERIAL FROM EXCAVATION LANDFILL
- B. CONSTRUCTION DEMOLITION FROM BUILDINGS, TANKS, ETC. LANDFILL OR RECYCLE IF FEASIBLE
- C. CONCRETE WASHOUT USE WASHOUT FACILITY

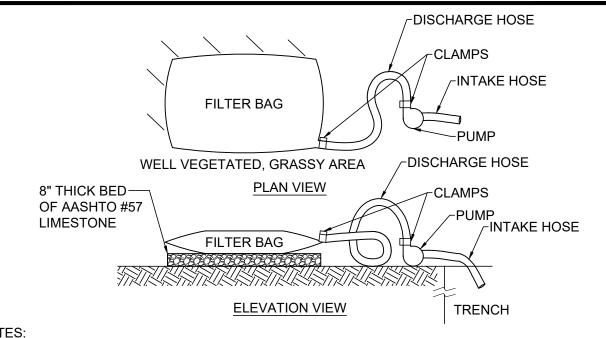
-COMPOST FILTER-STAKE ON 5' FLOW LINEAL SPACING PLAN VIEW - AS CHECK DAM PLAN VIEW -AS EDGE RESTRAINT 2" X 2" WOODEN **UNDISTURBED** COMPOST FILTER 7 UNDISTURBED SOCK AREA **WORK AREA** BLOWN/PLACED-2" X 2" WOODEN-12" (MIN.) FILTER MEDIA COMPOST FILTER STAKE PLACED 10' O.C. UNDISTURBED SOCK PLAN VIEW - AS SILT BARRIEF SECTION - COMPOST FILTER SOCH

NOTES:

- THIS PROJECT REQUIRES THE USE OF 8" DIA. COMPOST FILTER SOCK.
- COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8' UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN IN THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCK.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED IN THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL.
- SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- SOCK FABRIC AND COMPOST SHALL MEET THE STANDARDS OF THE LATEST VERSION OF THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL
- BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.
- SACKS MAY BE LEFT IN PLACE OR REMOVED. IN THE FORMER CASE, THE SOCK MATERIAL SHALL BE CUT OPEN AND THEN MULCH SPREAD AS A SOIL SUPPLEMENT.

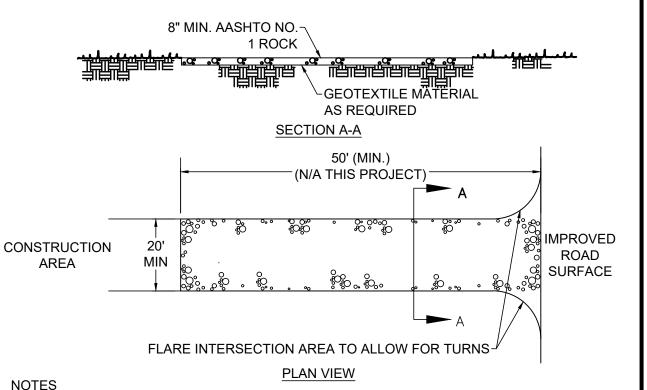
COMPOST FILTER SOCK

NOT TO SCALE



- USE FILTER BAGS MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS, CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
- 2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. REPLACE FILTER BAGS WHEN THEY BECOME 1/2 FULL. KEEP SPARE BAGS AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
- PLACE BAGS IN WELL-VEGETATED (GRASSY) AREAS, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, PROVIDE A GEOTEXTILE FLOW PATH. DO NOT PLACE BAGS ON SLOPES GREATER THAN 5%.
- INSERT PUMP DISCHARGE HOSE INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
- 5. THE PUMPING RATE SHOULD BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.
- INSPECT FILTER BAGS DAILY. IF ANY PROBLEM IS DETECTED, CEASE PUMPING IMMEDIATELY AND DO NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG DETAIL



-INLET GRATE

-BOX INLET

2. INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR

3.1. EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED

EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT

STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.

SILT SACK DETAIL

NOT TO SCALE

ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS

1" REBAR FOR

BAG REMOVAL

SILTSACK-

MAXIMUM DRAINAGE AREA =1/2 ACRE

BERMS REQUIRED FOR ALL INSTALLATIONS.

EXPANSION-

1/4" NYLON

ROPE

OF FLOW

RESTRAINT

- ROCK CONSTRUCTION ENTRANCES SHALL BE PLACED AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS AND CONSTRUCTED TO THE MINIMUM WIDTH, LENGTH AND THICKNESS DIMENSIONS SHOWN.
- ROCK SHALL BE AASHTO NO.1 AS SPECIFIED IN SECTION 703.2 OF THE PENNDOT PUBLICATION 408.
- FOR INSTALLATION ON CLAYEY OR POORLY DRAINED SOILS, A GEOTEXTILE FABRIC UNDERLAYMENT, OF A TYPE RECOMMENDED FOR SUCH APPLICATIONS BY THE 14. MANUFACTURER, SHALL BE USED.
- MAINTENANCE: THE ROCK CONSTRUCTION ENTRANCE SHALL BE REDRESSED WHEN VOIDS BECOME CHOKED WITH SEDIMENT. THE STRUCTURES THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY CLEANING OR ADDING ROCK, A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON DRIVEWAYS AND PUBLIC ROADWAYS. SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE DRIVEWAYS OR ROADWAYS WITH WATER IS NOT PERMITTED.

ROCK CONSTRUCTION ENTRANCE

PERMANENT SEED MIX:

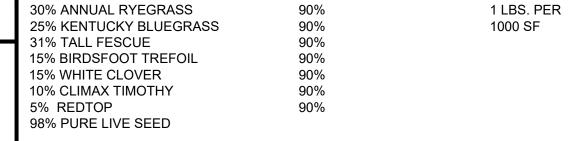
PERMANENT SEED MIXTURE FOR SLOPES 3:1 AND LESS 50% KENTHOKY BITIECDASS 11RS DED

GERMINATION RATE

APPLICATION RATE

0% KENTUCKY BLUEGRASS	85%	1 LBS, PER
0% PERENNIAL RYEGRASS	90%	1250 SF
0% CREEPING RED FESCUE	88%	
8% PURE LIVE SEED		

PERMANENT SEED MIXTURE FOR SLOPES GREATER THAN 3:1



APPLICATION RATE: 100 LB/ACRE FERTILIZER 10-20-20, APPLICATION RATE: 680 LB/ACRE

2 MIN.

x 3/4"

3:1-

RUBBER

BLOCK

-BERM

LIMING RATE: 2.0 TON/ACRE MULCH: STRAW - MULCHING RATE: 3.0 TON/ACRE PROTECT SEED WITH: NAG 575 OR APPROVED SUBSTITUTE SEEDING SEASONS: MARCH 15 - JUNE 1 & AUG 1 - OCT 15

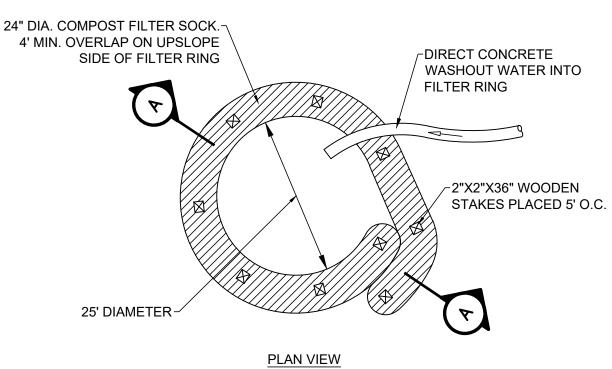
BIODEGRADABLE EROSION CONTROL MATTING/BLANKET

A TEMPORARY DEGRADABLE ROLLED EROSION CONTROL PRODUCT COMPOSED OF PROCESSED NATURAL FIBERS MECHANICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX. AREAS WITH SLOPES GREATER THAN 3:1 SHALL BE PROTECTED WITH NORTH AMERICAN GREEN S75BN EROSION CONTROL BLANKET (ECB) OR APPROVED SUBSTITUTE

TEMPORARY SEED MIX:

SPECIES: ANNUAL RYE % PURE LIVE SEED: 98% APPLICATION RATE: 50 LB/ACRE FERTILIZER: 10-20-20 FERTILIZER APPLICATION RATE: 680 LB/ACRE LIMING RATE: 2.0 TON/ACRE MULCH: STRAW MULCHING RATE: 3.0 TON/ACRE

2"x2"x36" WOODEN--MAXIMUM DEPTH OF CONCRETE STAKES PLACED 5' O.C. WASHOUT WATER IS 50% OF FILTER RING HEIGHT -24" DIA. COMPOST GEOMEMBRANE-FILTER SOCK SECTION A-A



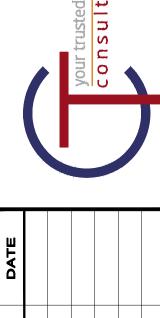
- PROVIDE PROPER SIGNAGE FOR CONCRETE DELIVERY VEHICLE DRIVERS SO THAT THEY ARE AWARE OF THE PRESENCE OF WASHOUT FACILITIES.
- WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50' OF STORM DRAINS, OPEN 1 7 DITCHES, OR SURFACE WATERS, UNDER NO CIRCUMSTANCES SHOULD WASH WATER BE ALLOWED TO ENTER ANY SURFACE WATERS.
- WHEREVER POSSIBLE, CONCRETE WASHOUTS SHOULD BE LOCATED ON SLOPES NOT EXCEEDING A 2% GRADE.
- A SUITABLE IMPERVIOUS GEOMEMBRANE SHOULD BE PLACED AT THE LOCATION OF THE WASHOUT. COMPOST SOCKS SHOULD BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITHIN THE ENDS OF THE SOCK LOCATED AT THE UPSLOPE CORNER. CARE MUST BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS. WHERE NECESSARY, 18" SOCKS MAY BE STACKED ONTO 24" SOCKS AND STAKED SO AS TO FORM A TRIANGULAR CROSS SECTION.

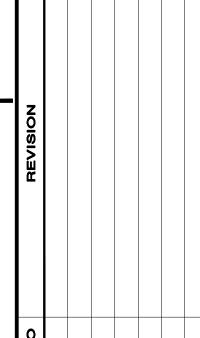
TYPICAL COMPOST SOCK WASHOUT INSTALLATION DETAIL

NOT TO SCALE

TE OF **GEORGIA** CONWAY E-85401

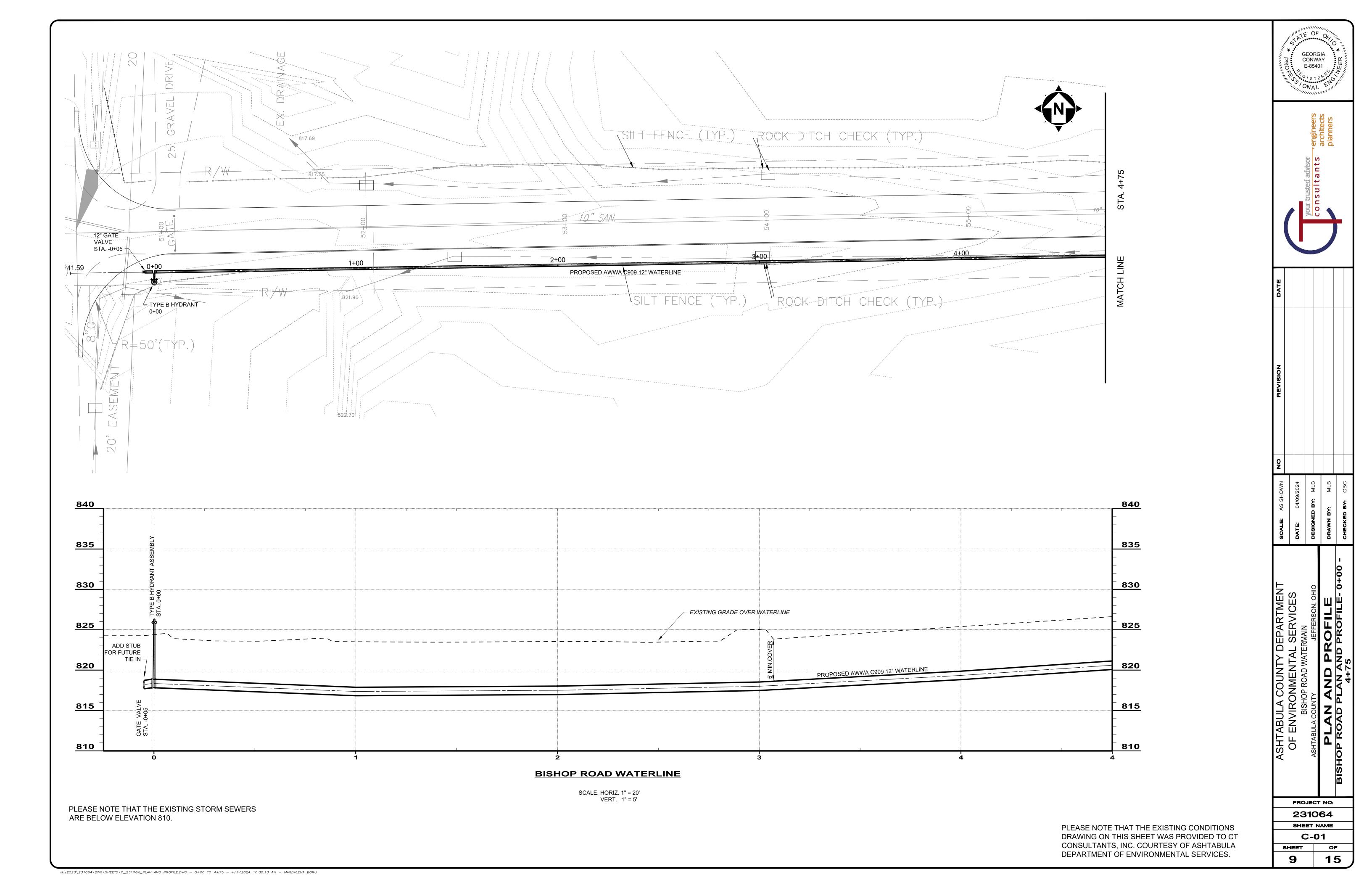


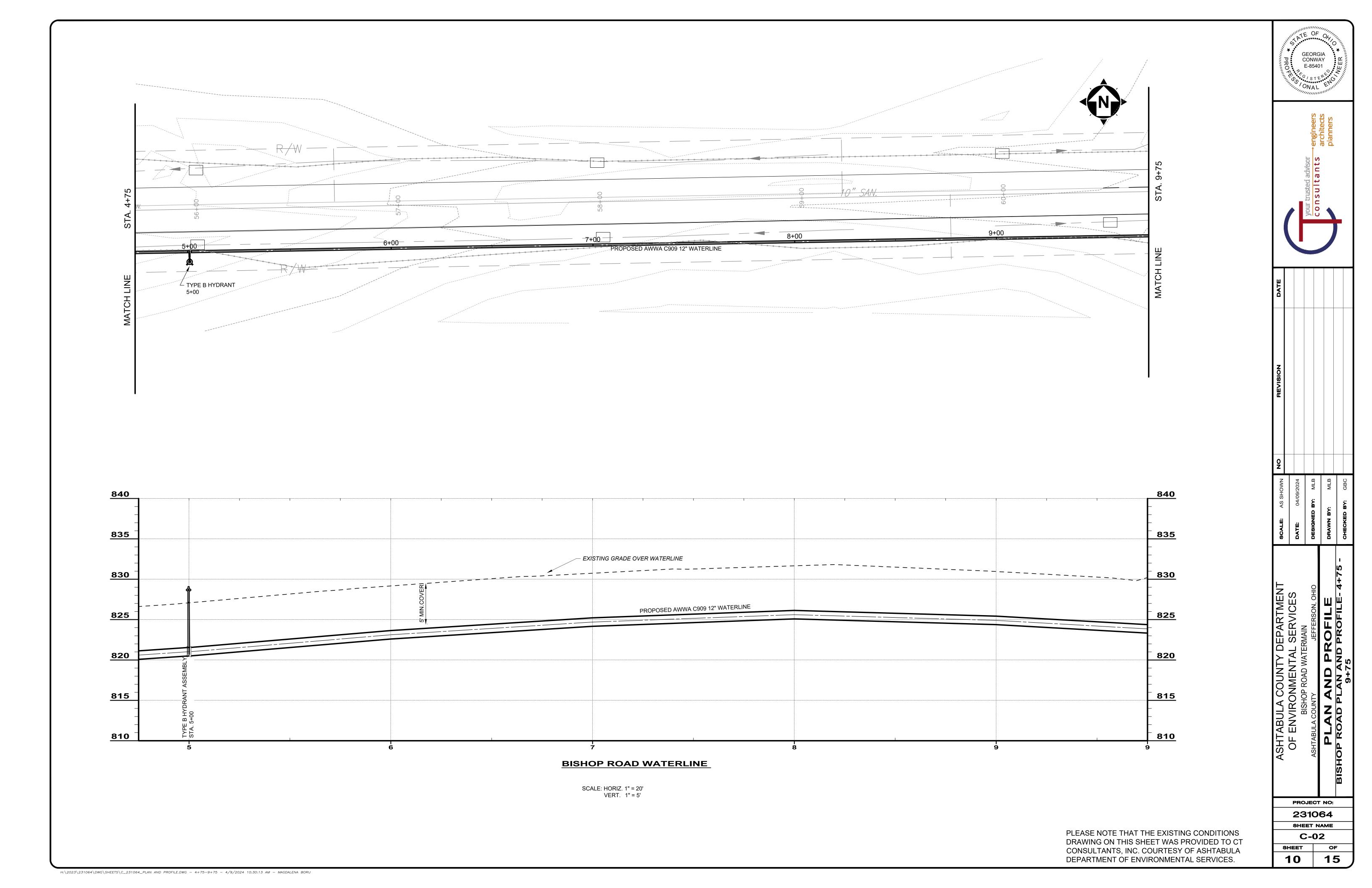


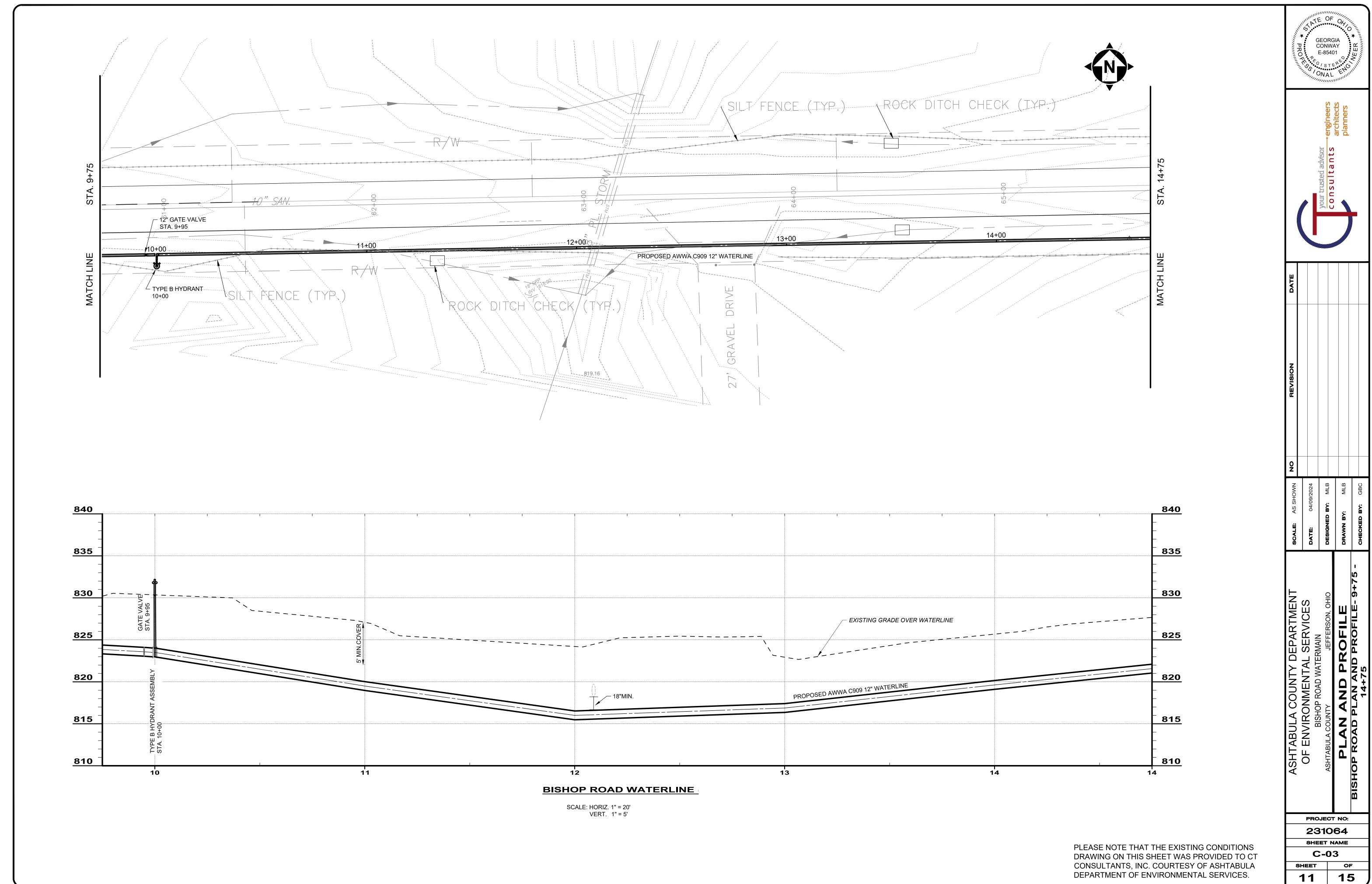


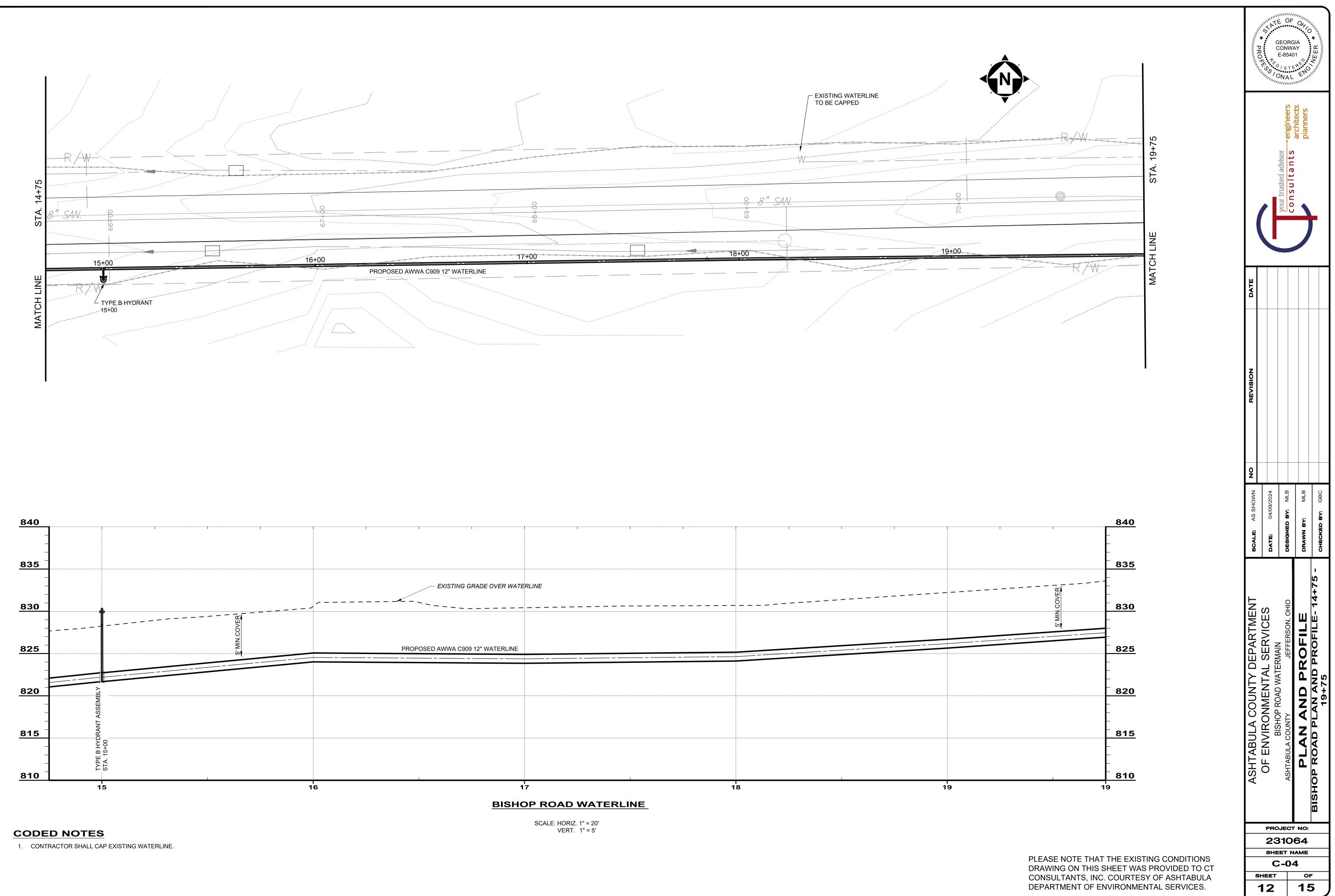
PROJECT NO: 231064 SHEET NAME G-07

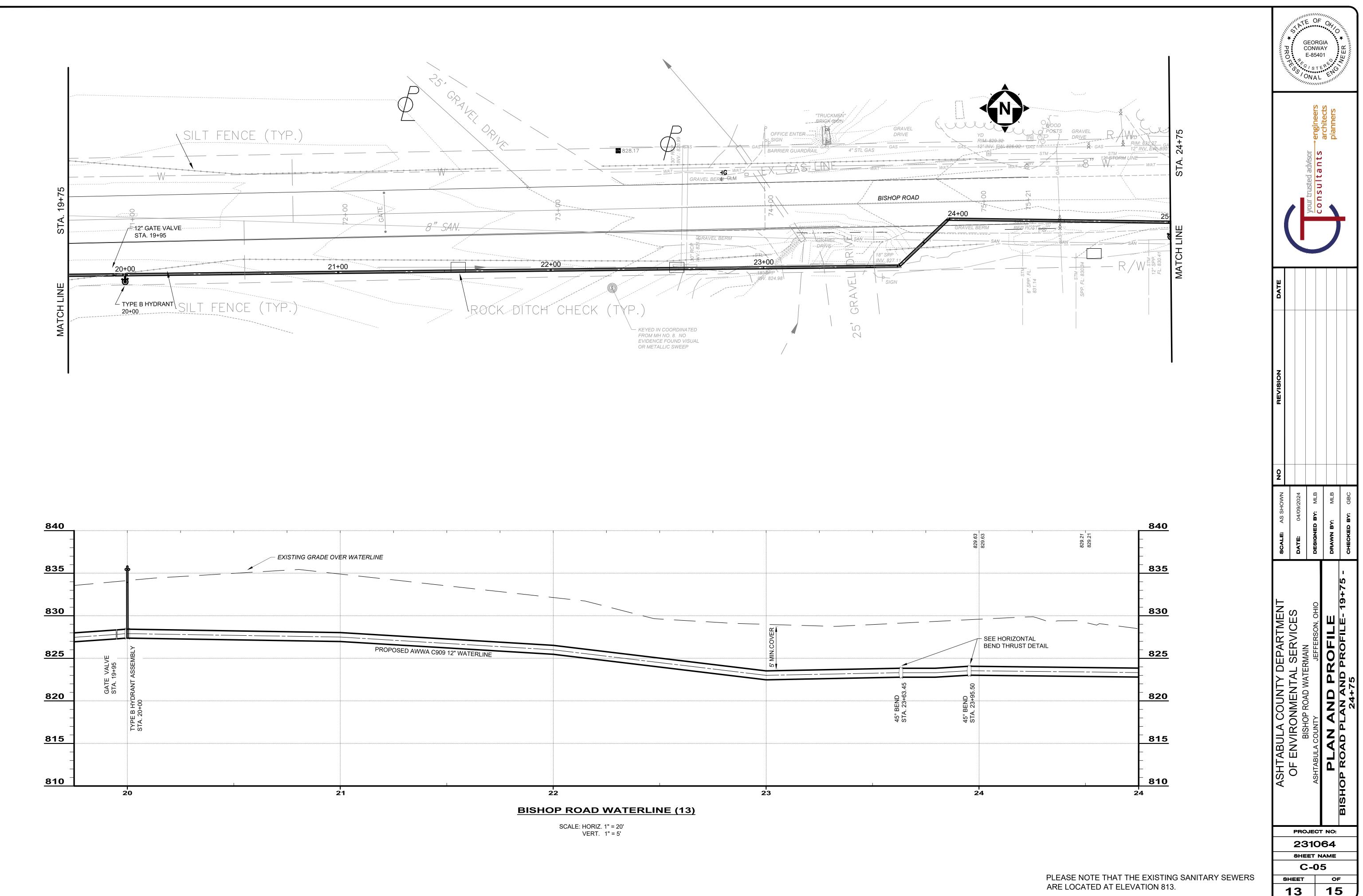
SHEET 15

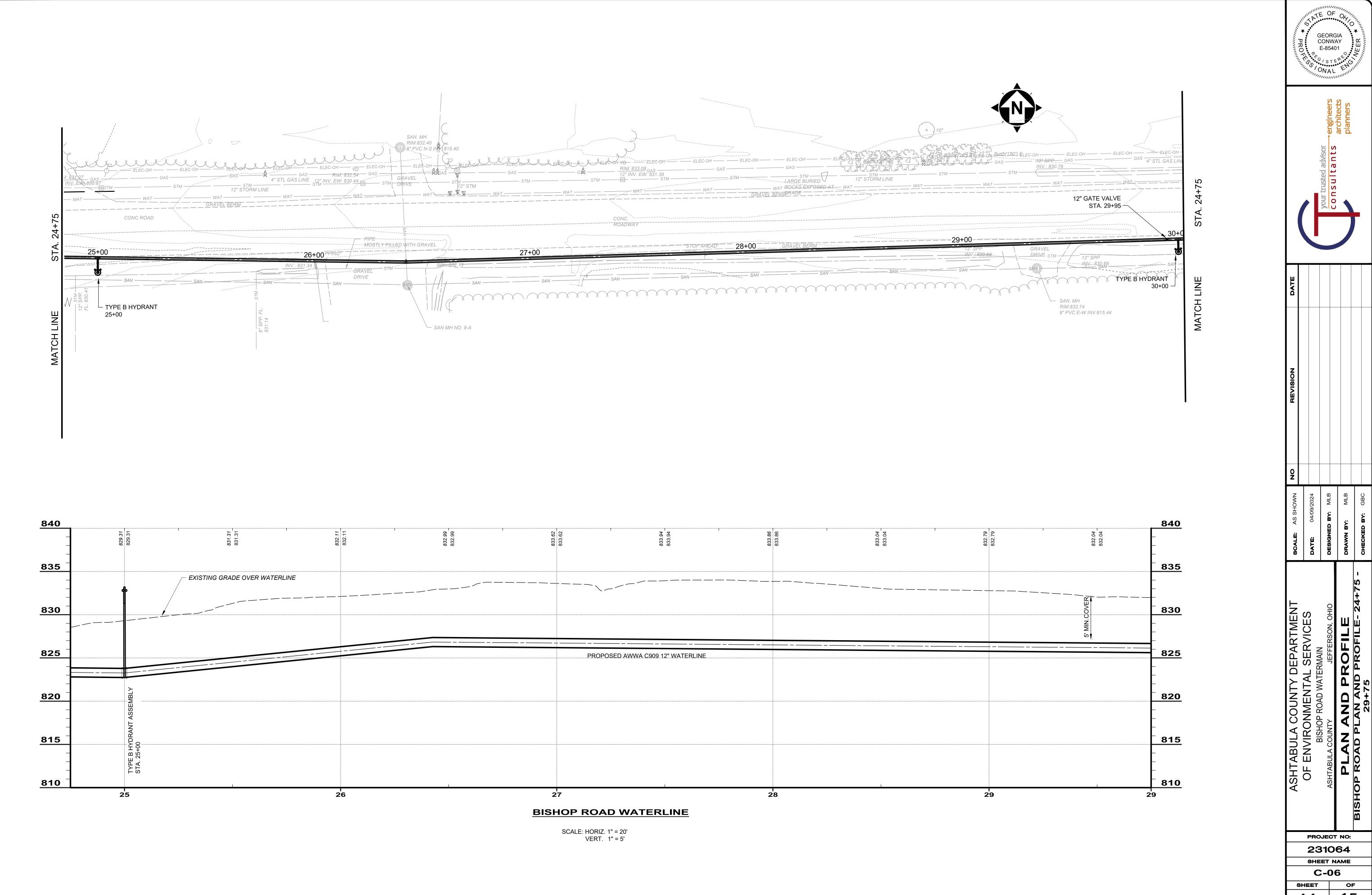




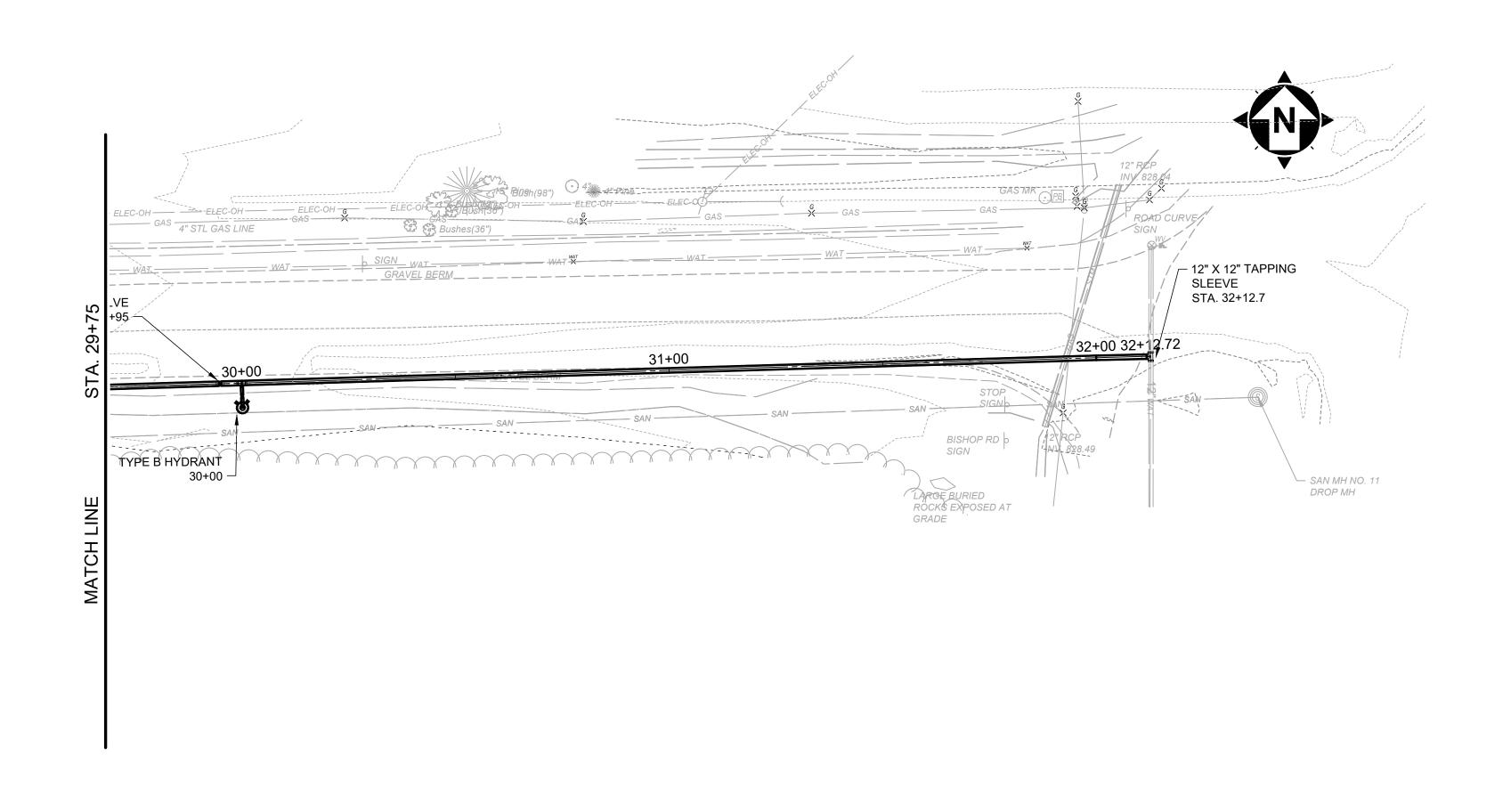


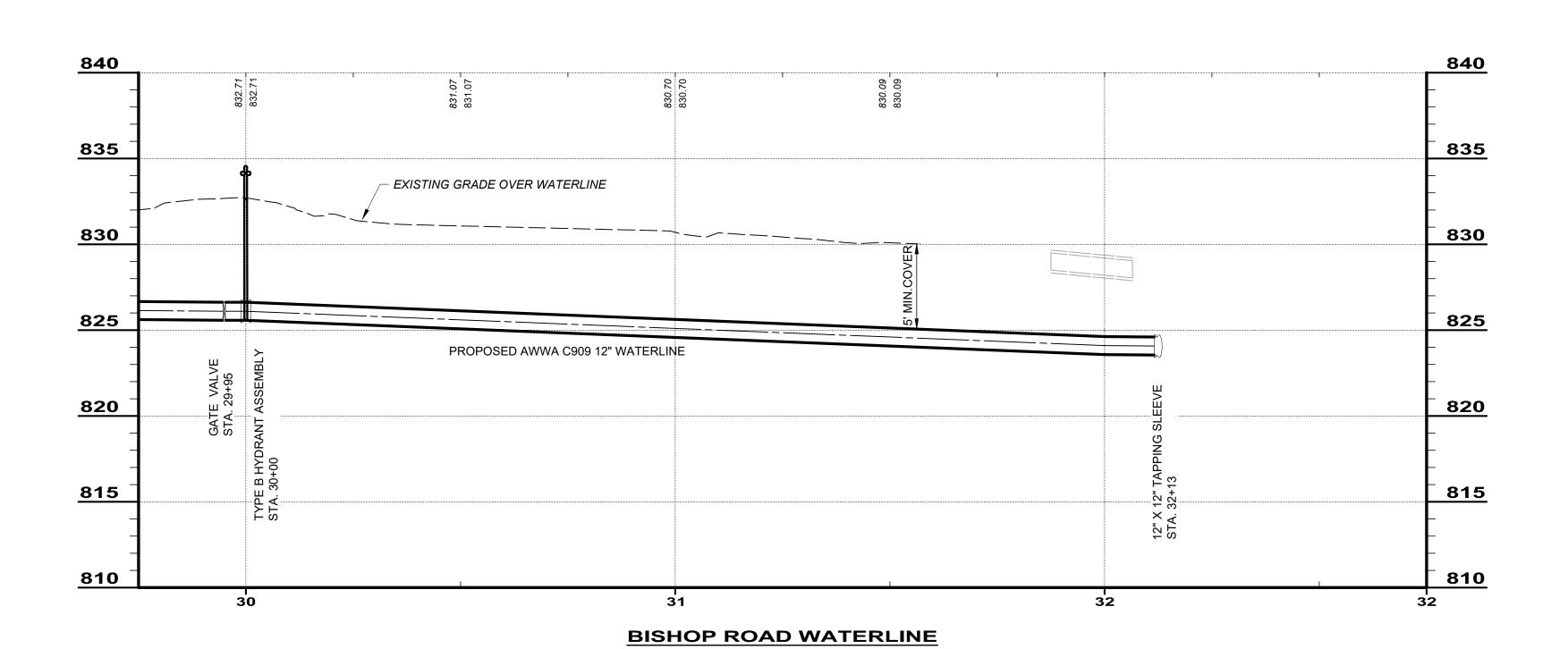












SCALE: HORIZ. 1" = 20' VERT. 1" = 5'

PROJECT NO: 231064 SHEET NAME C-06 15

H:\2023\231064\DWG\SHEETS\C_231064_PLAN AND PROFILE.DWG — 2975 TO END — 4/9/2024 11:21:17 AM — MAGDALENA BORU