ASHTABULA COUNTY DEPAR OF ENVIRONMENTAL SERV SOUTH RIVER ROAD WATER LINE EX PROJECT



ASHTABULA COUNTY APPROVALS:

KATHRYN L. WHITTINGTON, COUNTY COMMISSIONER

CASEY R KOZLOWSKI, COUNTY COMMISSIONER

11 lice D J.P. DUCRO IV, COUNTY COMMISSIONER

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

THE EAST OHIO GAS COMPANY:

1010 WEST 30TH STREET ASHTABULA, OHIO 44004

(440) 992-5100

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

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 44047 (440) 576-3722 PHONE (440) 576-3781 FAX

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DATE

DATE

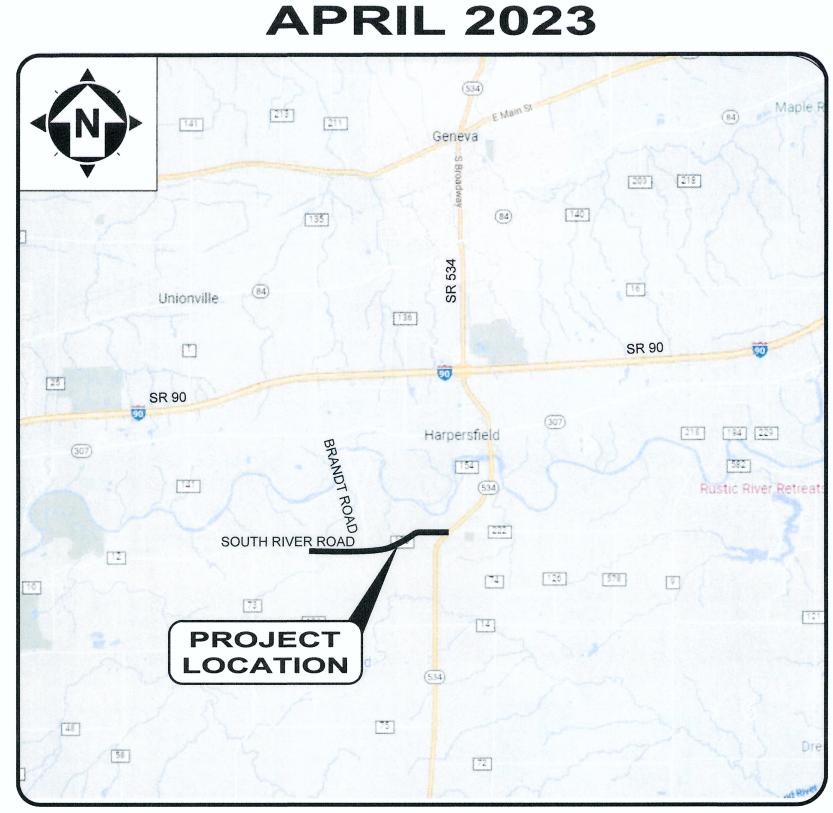
DATE

TCI: 2904 STATE ROAD ASHTABULA, OHIO 44004 (440) 998-2148



- 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.

HARPERSFIELD TOWNSHIP, OHIO



LOCATION MAP NOT TO SCALE





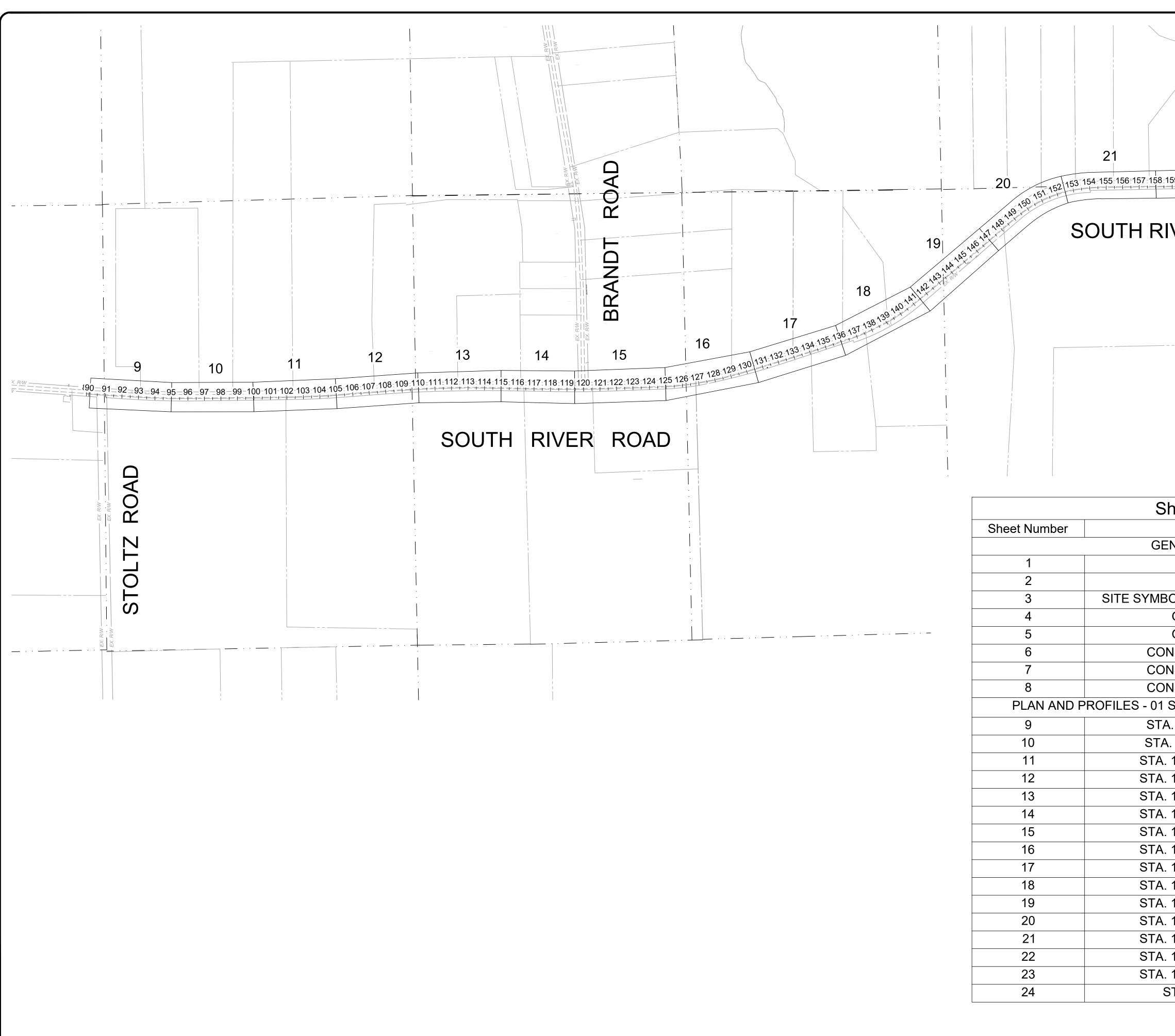
OWNER:

OFFICE:

ENGINEER:

ENGINEER'S PROJECT No. 220544

	RTMER		PROPLA	GEOF CONV E-85	F OLY GIA VAY 401 E R C L EN U	
	/ICES IENSION		DATE	your trusted advisor	Consultants architects planners	
DWNER:		5-3-2023 DATE	EPA REVIEW NO REVISION	02/17/2023 R1 M	RLM	GBC
DFFICE: ENVIRONMENTAL SERVICES 36 W. WALNUT STREET JEFFERSON, OHIO 44047 ED SPOOR, LEAD PROJECT COORDIN	JATOR - WATER		ISSUED FOR:	P, OHIO DESIGNED BY:	DRAWN BY:	CHECKED BY:
ED SPOOR, LEAD PROJECT COORDIN (440) 576-3722 PHONE (440) 576-3781 FAX ENGINEER: CT CONSULTANTS, INC. 8150 STERLING COURT MENTOR, OH 44060 (440) 951-9000 PHONE (440) 951-7487 FAX	THE PROJECT SCOPE INCLUDES A PRO WATERLINE EXTENSION, LOCATED OFF ROUTE 534, ALONG SOUTH RIVER ROAD ROAD TO STATE ROUTE 534 IN HARPER TOWNSHIP, OHIO 44041.	OF STATE 0, FROM STOLTZ SFIELD	DEDAPTATENT OF ENVIRONMENTAL SERVIC	ITABULA COUNTY HARPERSFIELD TOWNSHI	GENERAL - 00 SERIES	COVER SHEET
GEORGIA CONWAY, P.E.	P.E. No. 85401	04/09/2024 DATE		PROJEC 2204 DRAWING 00G EET	544 NAME	
				1	24	-]



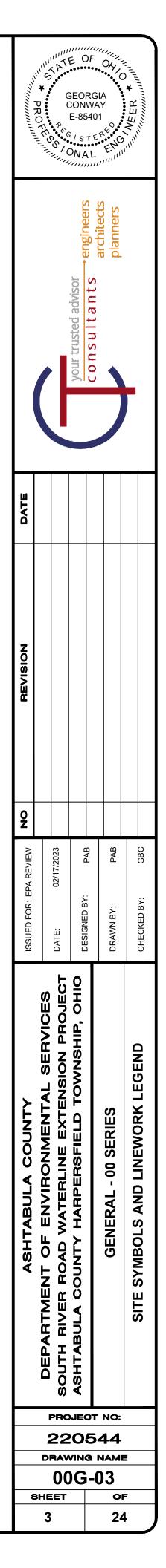
				ROFES	E OF GEORG CONWA E-8540 G / STE ONAL	REO REO	
0 149 150 151 152	21 22 23 22 54 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 OUTH RIVER ROAD	the bar and the transferred to t	DATE		your trusted advisor C O N S U I t a N t S C O S C O S U I t a N t A N t A N t A N t A N T S C O S U I t a N t A N T S C O S U I t a N t A N T S C O S U I t a N t A N T S C O S U I t a N t A N T S C O S U I t A N T S C O S U I t A N T S C O S U I t A N T S C O S U I t A N T S C O S U I t A N T S C O S U I t A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I T A N T S C O S U I	architects	
Shoot Number	Sheet Title	Shoot Namo	REVISION				
Sheet Number	Sheet Title GENERAL - 00 SERIES	Sheet Name					
1	COVER SHEET	00G-01	Ŷ				
2	SHEET INDEX	00G-02	NEW.	2023	RLM	RLM	GBC
3	SITE SYMBOLS AND LINEWORK LEGEND	00G-03	EPA REVIEW	02/17/2023			
4	GENERAL NOTES	00G-04	FOR: EF		D BY:		OBY:
5	GENERAL NOTES	00G-05	SSUED F	DATE:	DESIGNED B	DRAWN BY:	СНЕСКЕD ВҮ
6	CONSTRUCTION DETAILS	00G-06	<u>ö</u>	DA	ä	Ð	Ċ
7	CONSTRUCTION DETAILS	00G-07		С Ц	₽		
8	CONSTRUCTION DETAILS	00G-08		O E C	HIP, OHIO		
PLAN AND P	ROFILES - 01 SERIES: RIVER ROAD (STOLTZ T	O SR 534)					
9	STA. 90+00 TO STA. 95+00	0G-01		S NO	SNV SNV		
10	STA. 95+00 TO STA.100+00	0G-02		FAL SEI ENSION	TOWNS		
11	STA. 100+00 TO STA. 105+00	0G-03	Íź	IENT EXTE	-	IES	
12	STA. 105+00 TO STA. 110+00	0G-04		Σ	=	SERIES	EX
13	STA. 110+00 TO STA. 115+00	0G-05		NVIRONN TERLINE	SH RS	- 00	SHEET INDEX
14	STA. 115+00 TO STA. 119+50	0G-06	<u>ה</u>	⋛Ё	RPI		EET
15	STA. 119+50 TO STA. 125+00	PP-07	TABU	>		GENERAL	SH
16	STA. 125+00 TO STA. 130+50	PP-08	ASHT	AD P		GE	
17	STA. 130+50 TO STA. 136+00	PP-09	<	Ч Ч Ц И С И С И			
18	STA. 136+00 TO STA. 141+50	PP-10		Ν Ν Π Ν Ν	O ∢		
19	STA. 141+50 TO STA. 147+00 STA 147+00 TO STA 152+50	PP-11		ARTMENT RIVER RC			
20	STA. 147+00 TO STA. 152+50	PP-12		ЧП ЛН	₹ 		
21 22	STA. 152+50 TO STA. 158+00 STA. 158+00 TO STA. 163+50	PP-13 PP-14		DEP/ SOUTH	ASF		
22	STA. 158+00 TO STA. 163+50 STA. 163+50 TO STA. 168+00	PP-14 PP-15	⊢		JECT	' NO:	
23	STA. 163+50 TO STA. 168+00 STA. 168+00 TO END	PP-15 PP-16			205		
24		11-10					I
				0(SHEET)G-(02 °F	

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EXISTIN	NG LINETYPES	EXISTIN	G LINETYPES		OLS	EXISTING SYMBOLS	S	EXISTING SYMB
FENCE, GENERAL	x x x x x	BRUSH LINE		SANITARY MANHOLE	(Ŝ)	TELEPHONE PAY PHONE		SPIKE FOUND
FENCE, BARBED WIRE	XXXXXX	BUSH LINE		SANITARY CLEANOUT	0	FIBER OPTIC CABLE MANHOLE	Ē	HUB FOUND
FENCE, CHAIN LINK	• • • • • • • • • • • • • • • • • • •	TREE LINE		SANITARY LINE CAP	I	FIBER OPTIC CABLE PAINT MARKING	EXX	AXLE FOUND
FENCE, DECORATIVE	· · · · · · · · · · · · · · · · · · ·	MAJOR CONTOUR	1005	SANITARY LINE PAINT MARKING		TRAFFIC CONTROL MANHOLE	Ŕ	WOOD POST FOUND
FENCE, ELECTRIC	X	MINOR CONTOUR	1001	SANITARY STRUCTURE NUMBER	(00)	TRAFFIC CONTROL BOX	ŢĊ	CORNER STONE FOUND
FENCE, VINYL		WATER EDGE		SANITARY VENT PIPE	8	TRAFFIC CONTROL PAINT MARKING	R.	AERIAL TARGET FOUND
FENCE, WOOD				STORM MANHOLE (SOLID LID)	(D)	TRAFFIC PULL BOX	 EB	GPS CONTROL FOUND
FENCE, WOVEN WIRE		COUNTY LINE	CNTY CNTY	STORM MANHOLE (OPEN GRATE)		TRAFFIC SIGNAL PEDESTAL	 m2	BENCHMARK FOUND
· · · · · · · · · · · · · · · · · · ·			CORP CORP	CURB INLET				
CABLE RAIL		CORPORATION LINE				UNKNOWN, PULL BOX	<u>6</u>	PROPOSED SYME
GUARDRAIL		ANNEXATION AREA	ANNX ANNX	CURB INLET (DOUBLE)	<u> </u>	UNKNOWN, CLEANOUT	0	SANITARY MANHOLE
HANDRAIL		SECTION LINE	SECT SECT SECT SECT	CATCH BASIN	<u> </u>	UNKNOWN, MANHOLE	(Ú)	SANITARY MANHOLE, ADJUST
		TOWNSHIP LINE	TOWN TOWN	CATCH BASIN (ROUND LID)	e e e e e e e e e e e e e e e e e e e	UNKNOWN, VALVE	ଝ	SANITARY CLEANOUT
CABLE T.V., ABANDONED	CATV-ABAN CATV-ABAN	FLOOD PLAIN LIMIT	FLOOD	CATCH BASIN (DOME)	₿	MONITORING WELL		
CABLE T.V.	CATV	WETLAND LIMIT	WTLND	CATCH BASIN (SIDE INLET)	63	TEST WELL		SANITARY LINE CAP
CABLE T.V., OH	CATV-OH	FARM LINE		DRAIN		WATER WELL	()	SANITARY STRUCTURE NUMBER
CABLE T.V., UG	CATV-UG	BOUNDARY LINE		DOWNSPOUT		SOIL BORING	•	SANITARY VENT PIPE
CABLE T.V., SERVICE	CATV CATV	PROPERTY LINE	———— EX. P/L ———————————————————————————————————	STORM CLEANOUT	0	SWAMP	*	STORM MANHOLE (SOLID GRATE)
CABLE T.V., SERVICE OH	CATV-OH CATV-OH	LEASE LINE		STORM LINE CAP		POLE, ELECTRIC		STORM MANHOLE (OPEN GRATE)
CABLE T.V., SERVICE UG	CATV-UG CATV-UG	RIGHT-OF-WAY LINE	EX. R/W	STORM ENDWALL			$\frac{\gamma}{\tau}$	STORM MANHOLE, ADJUST
CADLE N.V., SERVICE CO		RIGHT-OF-WAY C/L		STORM HEADWALL		POLE, TELEPHONE	¢,	CURB INLET
	COMB-ABAN COMB-ABAN	SURVEY STATIONING	1+00 2+00			POLE, LIGHT	φ	CURB INLET (DOUBLE)
COMMUNICATION, ABANDONED		SURVET STATIONING		STORM LINE PAINT MARKING		POLE, LIGHT, DECORATIVE		CURB INLET, ADJUST
COMMUNICATION	СОММ	PROPOSI	ED LINETYPES	STORM STRUCTURE NUMBER	(00)			CURB INLET (DOUBLE), ADJUST
COMMUNICATION, OH	Сомм-он	FENCE, GENERAL	x x x x x x	ROCK CHANNEL PROTECTION	55555	POLE, LIGHT-OVERHEAD	<u>0</u> †==⊂>	CATCH BASIN
COMMUNICATION, UG	COMM-UG			SURFACE DRAINAGE FLOW	~~~	POLE, CABLE TV	C C	CATCH BASIN (SOLID)
COMMUNICATION, SERVICE	сомм сомм			STORM FLOOD ROUTING ARROW				· · · · · · · · · · · · · · · · · · ·
COMMUNICATION, SERVICE OH	сомм-он сомм-он	FENCE, CHAIN LINK	o o o	FIRE HYDRANT	<u> </u>	POLE, UTILITY	φ	CATCH BASIN, ADJUST
COMMUNICATION, SERVICE, UG	сомм_ug сомм_ug	FENCE, DECORATIVE		WATER SIAMESE CONNECTION	্র	POLE, GENERAL	¢	CATCH BASIN (SIDE INLET)
		FENCE, ELECTRIC	XEXE	WATER VALVE	<u>ଷ</u>	POLE, TRAFFIC CONTROL	R	DRAIN
ELECTRIC, ABANDONED	ELEC_ABAN ELEC_ABAN	FENCE, VINYL	<u> </u>	WATER VALVE BOX	<u>®</u>		Ģ	DOWNSPOUT
ELECTRIC, DUCT BANK		FENCE, WOOD		WATER METER	<u>.</u>	POLE, GUY	Ý - B	STORM CLEANOUT
ELECTRIC	ELEC	FENCE, WOVEN WIRE	xxx	WATER METER PIT		POLE, BRACE	မှ	STORM LINE CAP
ELECTRIC, OH	ELEC-OH	CABLE RAIL		WATER LINE REDUCER		POLE, ELECTRIC/TELEPHONE	-'P E	STORM HEADWALL
	ELEC-UG	GUARDRAIL	0 0 0 0 0 0 0 0 0			· · · · · · · · · · · · · · · · · · ·	<u>,</u> 	STORM STRUCTURE NUMBER
ELECTRIC, UG		HANDRAIL		WATER LINE CAP		POLE, ELECTRIC W/LIGHT	<u><u><u></u></u></u>	ROCK CHANNEL PROTECTION
ELECTRIC, SERVICE	ELEC ELEC			WATER LINE PLUG	D	POLE, ELECTRIC/CABLE TV	¢ Ç	SURFACE DRAINAGE FLOW
ELECTRIC, SERVICE OH	ELEC-OH ELEC-OH	ELECTRIC, DUCT BANK		WATER LINE PAINT MARKING	<u>×</u>	POLE, ELECTRIC/TELEPHONE/LIGHT	- P	SURFACE DRAINAGE FLOW
ELECTRIC, SERVICE, UG	ELEC-UG ELEC-UG	,	ELEC-OH	POST INDICATOR VALVE	Ŵ			STORM FLOOD ROUTING ARROW
				WATER MANHOLE	Ŵ	POLE, ELECTRIC/TELEPHONE/CABLE TV	¢.	
FIBER OPTIC, ABANDONED		ELECTRIC, UG	ELEC-UG ELEC-UG	WATER FLUSHING ASSEMBLY	ဟ	POLE, ELEC./TELE./LIGHT/CABLE TV	θe	FIRE HYDRANT
FIBER OPTIC, DUCT BANK		ELECTRIC, SERVICE OH		WATER FIXTURE	WE	POLE, TELEPHONE/LIGHT	$\frac{i}{\tau}$	FIRE HYDRANT, ADJUST
FIBER OPTIC	FOC	ELECTRIC, SERVICE, UG		WATER FITTING (TEE)	F			WATER SIAMESE CONNECTION
FIBER OPTIC, OH	FOC-OH			WATER FITTING (CROSS)	Ē	POLE, TELEPHONE/CABLE TV	¢,	WATER VALVE
FIBER OPTIC, UG	FOC-UG	GAS	GAS	WATER FITTING (45° WYE)		POLE, TELEPHONE/LIGHT/CABLE TV	E l	WATER VALVE BOX
FIBER OPTIC, SERVICE	FOC FOC	GAS, SERVICE	GS GS GS GS	WATER FITTING (11.25')	,	POLE, CABLE TV W/LIGHT	<u>-'c</u>	WATER METER
FIBER OPTIC, SERVICE OH	FOC-OH FOC-OH			WATER FITTING (22.50°)			<u> </u>	WATER LINE REDUCER
-		SANITARY FORCE MAIN	FM			POLE, GUY WIRE	←	WATER LINE CAP
FIBER OPTIC, SERVICE, UG	FOC-UG FOC-UG FOC-UG	SANITARY SEWER	SAN	WATER FITTING (45°)		SIGN	ه	WATER LINE PLUG
		SANITARY LEACH LINE	·	WATER FITTING (90°)	4	SIGN, DOUBLE SIDED	-	POST INDICATOR VALVE
GAS, ABANDONED	GAS_ABAN GAS_ABAN	SANITARY SEWER, DOUBLE		IRRIGATION SPRINKLER HEAD	N/ e	SIGN, DUAL POST		WATER MANHOLE
GAS	GAS	SANITARY SEWER, SERVICE		IRRIGATION CONTROL BOX		SIGN, RAILROAD	×°	WATER CORPORATION STOP
GAS, SERVICE	GS GS GS GS	SANTART SEWER, SERVICE		IRRIGATION BOX	<u>IR</u>	POST	0	WATER CORFORATION STOP
				STEAM MANHOLE	Ŵ	BOLLARD	0	
SANITARY, ABANDONED	SAN_ABAN SAN_ABAN		STM	STEAM VENT	×	DELINEATOR POST	Θ	WATER METER
SANITARY FORCE MAIN	SAN	STORM SEWER, DOUBLE		COMBINED SEWER MANHOLE	ĆŴ	PARKING BUMPER BLOCK		GAS LIGHT POST (YARD)
SANITARY SEWER	SAN	STORM, ROOF DRAIN		GAS LIGHT POST (YARD)	-ġ-	HANDICAP PARKING SYMBOL	Ġ	GAS MANHOLE
SANITARY LEACH LINE	LCH	STORM, UNDERDRAIN	UD UD UD	GAS MANHOLE	(Ĝ)	HANDICAP PARKING SYMBOL	<u>5</u>	GAS MANHOLE
SANITARY SEWER, DOUBLE				GAS VALVE	<u>ि</u>			GAS VALVE
SANITARY SEWER, SERVICE		WATER LINE	WAT	GAS VALVE BOX	 &	HANDICAP DETECTABLE WARNING	5553	GAS METER
		WATER LINE, DOUBLE			CV CV	MAILBOX	MBI	GAS REGULATOR
STORM SEWER ARANDONED		WATER LINE, SERVICE	ws ws ws ws	GAS GAS METER	<u> </u>	PAPERBOX	(PB)	GAS VENT PIPE
STORM SEWER, ABANDONED						PARKING METER	۰ جه	ELECTRIC LIGHT (GROUND)
STORM CULVERT		BUSH LINE		GAS REGULATOR	GR	GRAVE HEADSTONE	RIP	ELECTRIC LIGHT POST (YARD)
STORM SEWER	STM			GAS VENT PIPE	© GAS	EX. BARBEQUE GRILL	BBQ	ELECTRIC MANHOLE
STORM SEWER, DOUBLE		MAJOR CONTOUR	1005	GAS LINE PAINT MARKING	×	FUEL PUMP	FUEL	ELECTRIC MANHOLE, ADJUST
STORM, ROOF DRAIN	RD RD RD RD	MINOR CONTOUR	1003	GAS LINE FIXTURE	٦Ð	FLAG POLE	72	ELECTRIC PULL BOX
STORM, UNDERDRAIN	UD UD UD UD		1001	GAS	œ	RAISED PAVEMENT MARKER		ELECTRIC CONTROL BOX
		WATER EDGE		ELECTRIC LIGHT POST (YARD)	<u>i</u>	GUARDRAIL, CENTER POST	0	
TELEPHONE, ABANDONED				ELECTRIC MANHOLE	Ê	GUARDRAIL, TERMINAL POST	0	ELECTRIC JUNCTION BOX
TELEPHONE	TEL	BOUNDARY LINE		ELECTRIC PULL BOX	EB	GUARDRAIL, BOTTOM POST	0	ELECTRIC VAULT BOX
TELEPHONE, OH	TEL-OH	PROPERTY LINE		ELECTRIC CONTROL BOX	हिग्रे	GUARDRAIL, TOP POST	0	ELECTRIC METER
TELEPHONE, UG	TEL-UG	EASEMENT LINE		ELECTRIC JUNCTION BOX	ि	FENCE POST		ELECTRIC PEDESTAL
TELEPHONE, SERVICE	TEL TEL	LEASE LINE		ELECTRIC VAULT BOX				ELECTRIC TRANSFORMER
TELEPHONE, SERVICE OH	TEL-OH TEL-OH	RIGHT-OF-WAY LINE		ELECTRIC METER	EM	PICINIC TABLE		ELECTRIC AIR CONDITION UNIT
TELEPHONE, SERVICE, UG		RIGHT-OF-WAY C/L		ELECTRIC PEDESTAL	Ē			POLE, ELECTRIC
UG		PHASE LINE		ELECTRIC PEDESTAL	Ē	DECIDUOUS TREE	\odot	
		TEMPORARY RIGHT-OF-WAY	†			EVERGREEN TREE	*	POLE, TELEPHONE
TRAFFIC, ABANDONED	TRA-ABAN TRA-ABAN	WORK LIMIT			TR G	STUMP	$\overline{\mathbf{Q}}$	
TRAFFIC LINE		SETBACK	<u> </u>	ELECTRIC HVAC UNIT		BUSH	Ø	POLE, LIGHT
		SURVEY STATIONING	1+00 2+00	ELECTRIC GROUND LIGHT	·	IRON PIN FOUND	0	
TRAFFIC LINE, OH			+	ELECTRIC LINE PAINT MARKING	×	SOLID IRON PIN FOUND	0	POLE, LIGHT, DECORATIVE
			CF CF	CABLE TV MANHOLE	(Ĉ)	IRON PIPE FOUND	Ø	
TRAFFIC LINE, OH				CABLE TV PEDESTAL	CP			POLE, LIGHT-OVERHEAD
TRAFFIC LINE, OH TRAFFIC LINE, UG		CONSTRUCTION FENCE		CABLE TV FEDESTAL		DRILL HOLE FOUND		
TRAFFIC LINE, OH TRAFFIC LINE, UG TRAFFIC, LOOP WIRE		SILT FENCE	SF SF	CABLE TV PAINT MARKING	88. X		$\frac{x}{x}$	
TRAFFIC LINE, OH TRAFFIC LINE, UG TRAFFIC, LOOP WIRE			SF SF FF FF		× (Î)	CHISELED "X" FOUND	× ×	POLE, CABLE TV
TRAFFIC LINE, OH TRAFFIC LINE, UG TRAFFIC, LOOP WIRE TRAFFIC, SPAN WIRE	TRA-SP TRA-SP TRA-SP	SILT FENCE	SF SF	CABLE TV PAINT MARKING		CHISELED "X" FOUND MONUMENT BOX FOUND	Μ	POLE, CABLE TV POLE, UTILITY
TRAFFIC LINE, OH TRAFFIC LINE, UG TRAFFIC, LOOP WIRE TRAFFIC, SPAN WIRE WATER LINE, ABANDONED WATER LINE	TRA-SP TRA-SP TRA-SP	SILT FENCE FILTER FENCE	SF SF FF FF	CABLE TV PAINT MARKING TELEPHONE MANHOLE	PB	CHISELED "X" FOUND MONUMENT BOX FOUND MONUMENT CONCRETE FOUND	M Ø	
TRAFFIC LINE, OH TRAFFIC LINE, UG TRAFFIC, LOOP WIRE TRAFFIC, SPAN WIRE WATER LINE, ABANDONED WATER LINE WATER LINE, DOUBLE	TRA-SP TRA-SP TRA-SP	SILT FENCE FILTER FENCE	SF SF FF FF	CABLE TV PAINT MARKING TELEPHONE MANHOLE TELEPHONE PULL BOX TELEPHONE PEDESTAL	छ एए	CHISELED "X" FOUND MONUMENT BOX FOUND MONUMENT CONCRETE FOUND MONUMENT RIGHT-OF-WAY FOUND	M © RW	
TRAFFIC LINE, OH TRAFFIC LINE, UG TRAFFIC, LOOP WIRE TRAFFIC, SPAN WIRE WATER LINE, ABANDONED WATER LINE		SILT FENCE FILTER FENCE	SF SF FF FF	CABLE TV PAINT MARKING TELEPHONE MANHOLE TELEPHONE PULL BOX	PB	CHISELED "X" FOUND MONUMENT BOX FOUND MONUMENT CONCRETE FOUND	M Ø	POLE, UTILITY

		PROPOSED SYMB			
		POLE, TRAFFIC CONTROL	∮	EDGE OF PAVEMENT ELEVATION	EP
	 	POLE, GUY	Ģ	ENCLOSURE	ENCL
			/ ₩	EXISTING	EX.
ND		POLE, BRACE		FACE TO FACE	F/F
ID			P	FINISHED FLOOR ELEVATION	FFE
и И	AER GPS	POLE, ELECTRIC/TELEPHONE	•	FIRE HYDRANT	FH
	GPS	POLE, ELECTRIC W/LIGHT	P	FOUNDATION	FNDN
	v		L G	FULL DEPTH RECLAMATION	FDR
SED SYMB	OLS	POLE, ELECTRIC/CABLE TV	F	FUTURE	FUT.
LE	S		P	GAS	G
LE, ADJUST		POLE, ELEC./TELE./LIGHT	Ľ	GALVANIZED PIPE	GP
JUT	0	POLE, ELEC./TELE./CABLE TV	<u> </u>	GRADE BREAK ELEVATION	GB
\P	I		F G	GRAVEL	GVL.
FURE NUMBER	00	POLE, ELEC./TELE./LIGHT/CABLE	P	GROUND ELEVATION	GND.
IPE	\otimes]	I	GUTTER ELEVATION	GUT.
(SOLID GRATE)		POLE, TELEPHONE/LIGHT	Ľ	HANDICAP (E.G. ACCESSIBLE)	НС
(OPEN GRATE)		POLE, TELEPHONE/CABLE TV	F	HIGH-DENSITY POLYETHYLENE PIPE	HDPE
ADJUST			₽ ₽ ₽	HIGH POINT ELEVATION	HP
		POLE, TELE./LIGHT/CABLE TV	Š	HORIZONTAL	HOR.
BLE)		1	$\overline{\varphi}$	INSTALL	INSTL
ST	Į	POLE, CABLE TV W/LIGHT		IRRIGATION	IRR.
BLE), ADJUST	<u> </u>				
		_ POLE, FLAG	μ. Τ		JT
_ID)					JF
IUST		POST, SIGN (SINGLE SIDED)	-		JCT.
E INLET)		POST, SIGN (DOUBLE SIDED)	—		KO
,		POST, SIGN (DUAL POST)	••		LAT.
		POST (GENERAL)	•		LP
Г	0	BOLLARD	۲		MAINT
-		DELINEATOR POST	ર		MATL.
		FENCE POST		MOUNTED	MTD.
		PARKING COUNT	00	MISCELLANEOUS	MISC.
ROTECTION		PARKING BUMPER BLOCK		NOT TO SCALE	N.T.S.
		HANDICAP PARKING SYMBOL	66	ORNAMENTAL	ORN.
		HANDICAP DETECTABLE WARNING			0/0
GE FLOW		MAILBOX	[MB]	OVERHEAD	ОН
UTING ARROW		PAPERBOX	(PB)	OXYGEN LINE	0
	(()	PARKING METER	 	PARKING	PKG.
DJUST	<u> </u>	-		PAVEMENT	PVMT
CONNECTION	<pre></pre>	STREET SIGN		PEDESTAL	PED.
	0 \varTheta	TRAFFIC CONTROL MANHOLE	R	PERFORATE	PERF
X		TRAFFIC CONT. MANHOLE (ADJ)		PIPE INVERT ELEVATION	INV.
	WM	TRAFFIC CONTROL BOX	TRAF	POLYVINYL CHLORIDE PIPE	PVC
JCER		TRAFFIC PULL BOX	РВ	PREFORMED JOINT FILLER	PJF
	I I	TRAFFIC SIGNAL PEDESTAL	TP	PROPOSED	PR.
6	1	INLET PROTECTION		PULL BOX	PB
VALVE	PIV	STRAW BALE CHECK DAM		RAILROAD	RR
		TREE (DECIDUOUS)	0	REINFORCED	REINF
TION STOP	•	TREE (EVERGREEN)	*	REINFORCED CONCRETE PIPE	RCP
ASSEMBLY	•	BUSH		REMOVE	RMV.
	WM		•	ן RETAINING WALL	RET.WA
YARD)	-៉្-	ABBREVIATIO	NS	ROOF LEADER	RL
	G	ABANDONED	ABAN.	SALVAGE	SALV.
		ADJUST	ADJ.	SANITARY SEWER	SAN.
	8 9	AGGREGATE	AGG.	SERVICE	SERV.
	GM	ASBESTOS PIPE	ASB.	SLEEVE	SLV.
	GR	ASPHALT	ASPH.	STABILIZATION	SLV.
	 ⊘	BETWEEN	BTW.		STABL
GROUND)	-•	BOTTOM OF CURB ELEVATION	BC		STEA.
OST (YARD)	- <u> </u>	BOTTOM OF FOOTING ELEVATION	FTG.		
LE	Ē	BOTTOM OF WALL ELEVATION	BWE		STM.
LE, ADJUST		BUILDING	BLDG.		SP
)X	РВ	BULKHEAD	BHD.		TEL.
	СТЦ	CABLE TELEVISION	CATV		TEMP
	JCT	CAST IRON PIPE	CIP		THK.
ЗОХ	VLT		СВ		TC
307	EM	CENTERLINE	CB C/L	TOP OF HEADWALL ELEVATION	THW
AL	EP		C/L C/C	TOP OF STRUCTURE ELEVATION	RIM
AL ORMER		CHAIN LINK FENCE	C/C CLF	TOP OF WALL ELEVATION	TW
		-		TRENCH DRAIN	TD
IDITION UNIT			CON.	TYPICAL	TYP.
	I F		CONC.	UNDERDRAIN	UD
-			CONN.	UNDERGROUND	UG
1	₱		CJ	VERTICAL	VERT
	4	CORRUGATED METAL PIPE	CMP	VITRIFIED CLAY PIPE	VCP
		DEMOLITION	DEMO.	WATER MAIN	W.
	- <u>.</u>	DOWNSPOUT	DS	WINDOW ELEVATION	WIN.
ORATIVE	Υ .	DROP MANHOLE	DMH	WIRE MESH	WM
ORATIVE					
ORATIVE		DUCTILE IRON PIPE	DIP	WOOD	WD.
	<u> </u>	DUCTILE IRON PIPE ECCENTRIC	DIP ECC.		
				VOOD YARD HYDRANT	WD. YH



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.
- 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 AND ODOT PRIOR TO THE START OF CONSTRUCTION.
- 3. MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT CONSTRUCTION & MATERIALS SPECIFICATIONS (CMS) 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.
- 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, STATE OF OHIO, 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.

WATER MAIN SPECIFICATIONS & NOTES:

1. WATER MAINS (3" THROUGH 36") SHALL BE PVC AWWA C909.

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 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. 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.

5. VALVE BOXES SHALL BE CAST IRON, TWO PIECE SCREW TYPE, 51/4" 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 1¹/₂" VALVE BOX RISER.

6. 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 ³/⁴" 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.

- THE INSTALLATION OF WATER MAIN.
- CURB STOP DURING NORMAL OPERATING CONDITIONS.
- 11. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.
- OPENED OR CLOSED HE SHALL NOTIFY THE COUNTY.
- PROPOSED WATER MAIN PRIOR TO IT'S INSTALLATION.
- REVISED CODE.
- THE ABOVE.
- AS REQUIRED BY LAW.
- DEFLECTION IS 3 DEGREES PER JOINT.
- 20. TEMPORARY BLOW-OFF AND FLUSHING ASSEMBLY:
 - A. PIPE SHALL BE TYPE K COPPER WITH COMPRESSION FITTINGS.
 - CORPORATION STOPS AND QUARTER BENDS SHALL BE BLOCKED.
 - ENDS SHALL HAVE COPPER COMPRESSION FITTINGS.
 - PRESSURE TESTING, BACTERIA SAMPLING AND FLUSHING.
 - ON CORPORATION STOP
- OF AWWA C502.

8. 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.

9. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. COST SHALL BE SUBSIDIARY TO

10. THE PROPOSED WATER SYSTEM SHALL MAINTAIN A MINIMUM STATIC PRESSURE OF 35psi DELIVERED TO THE

12. 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.

13. THE CONTRACTOR SHALL NOT OPERATE OR TURN ANY EXISTING WATER VALVE. IF VALVES NEED TO BE

14. ALL ROUGH GRADING TO WITHIN SIX (6) INCHES OF FINISH GRADE SHALL BE COMPLETED OVER THE

15. 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

16. 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

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OHIO UTILITY PROTECTION SERVICE (OUPS)

18. NO WATERLINE TIE-INS SHALL BE DONE ON FRIDAYS OR THE DAY BEFORE A COUNTY HOLIDAY.

19. DEFLECT WATER MAIN AS REQUIRED TO MAINTAIN ALIGNMENT AS SHOWN ON PLANS. MAXIMUM

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.

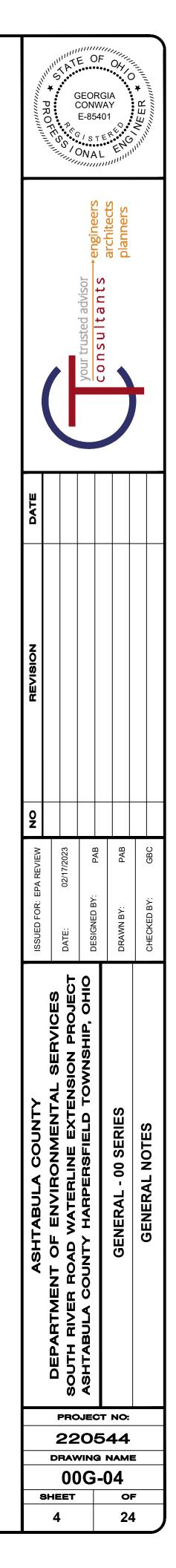
C. CURB VALVES (STOPS) SHALL BE ONE PIECE DESIGN, CAST FROM A BRASS ALLOY, CONFORM TO AWWA C800, HAVE A MAXIMUM WORKING PRESSURE OF 175 PSIG AND HAVE A QUARTER TURN CHECK. BOTH

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

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

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

21. FIRE HYDRANTS SHALL BE POST TYPE WITH A BREAKABLE FLANGE DESIGN. THE MAIN VALVE SHALL BE 5 ¼", OPENING LEFT WITH ONE 4 ½" STEAMER/PUMPER NOZZLE AND TWO 2 ½" 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 CAPS ON ALL NOZZLES MEETING ALL STANDARDS



GENERAL:

- 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 ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES 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 TAPE 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 CONCORD TOWNSHIP 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 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 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 CONTRACTOR'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.
- 11. 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.
- 13. ALL SOIL AREAS DISTURBED SHALL BE TOPSOILED (4" THICK), SEEDED AND MULCHED.
- 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.

TEMPORARY PAVEMENT AND MAINTENANCE OF TRAFFIC:

1. 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 AND 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:

1. 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.

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.

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.
 - b. 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:

1. 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.

METER BOXES, VALVES BOXES, STRUCTURES ADJUSTED TO GRADE:

1. 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. CONTRACTOR TO SUPPLY 1" RISER FOR ALL VALVE BOXES ADJUSTED TO GRADE.

EXCESS EXCAVATION:

- 1. ALL EXCESS EXCAVATION SHALL BE DISPOSED OF IN A LOCATION TO BE SELECTED BY THE CONTRACTOR. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE COUNTY IF THE MATERIAL IS TO BE DISPOSED OF WITHIN THE COUNTY LIMITS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL CONSTRUCTION MATERIALS/DEBRIS.

PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS:

1. 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:

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

STATIONING AND LOCATIONS:

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

NOISE CONTROL:

1. 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 THAT ARE IN CONFLICT WITH CONSTRUCTION ARE TO BE REMOVED BY THE CONTRACTOR AND ARE TO BE INCLUDED IN THE COST FOR CLEARING AND GRUBBING.

SALVAGED ITEMS:

EXISTING UTILITIES:

- RELOCATION.

- OR MAINTENANCE CREWS. THE UTILITY OWNERSHIPS ARE LISTED BELOW.

- AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

CLEARING OF TREES

DISCOVERY OF ARCHAEOLOGICAL/HISTORICAL RESOURCES DURING CONSTRUCTION

WITHIN THE PROJECT AREA.

1. 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.

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, MAY 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 THE COUNTY. THE ILLUMINATING CO., DOMINION EAST OHIO GAS COMPANY AND CHARTER COMMUNICATIONS FOR GAS LINE AND/OR POLE

4. 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.

5. 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.

6. 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

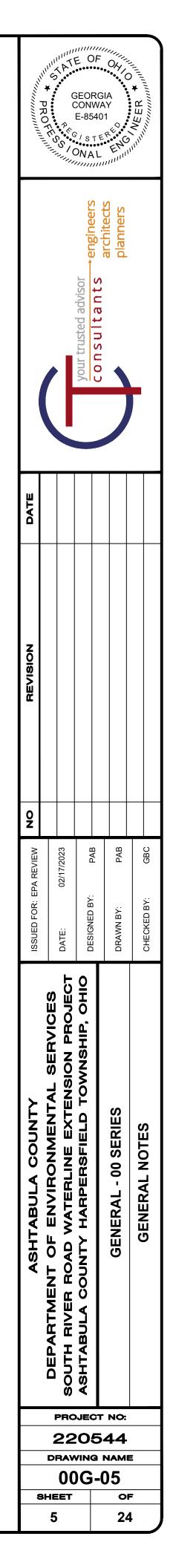
7. WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

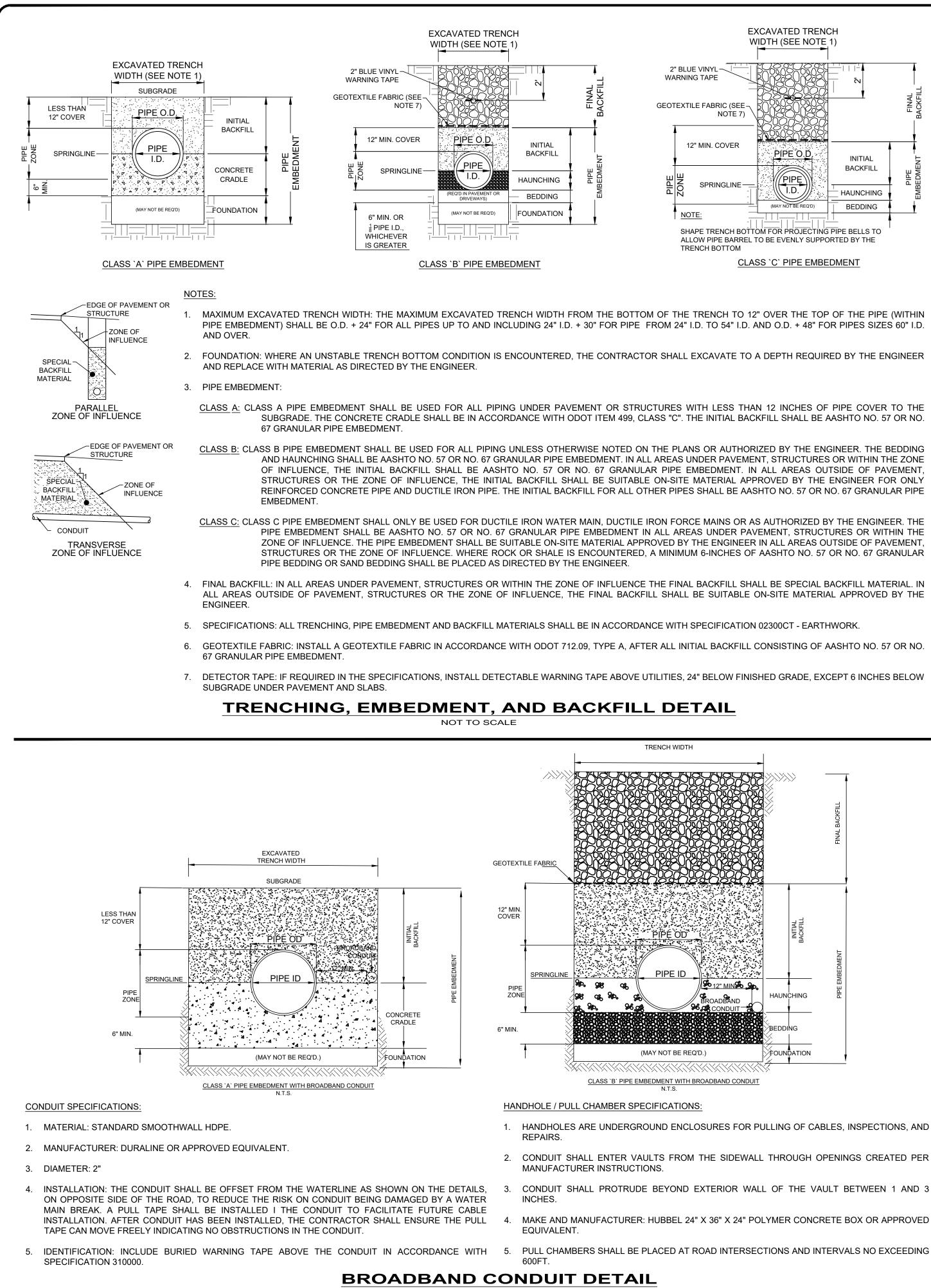
8. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

9. 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

1. THIS PROJECT IS WITHIN THE RANGE OF THE STATE AND FEDERALLY ENDANGERED INDIANA BAT (MYOTIS SODALIS), AND THE STATE ENDANGERED AND FEDERALLY THREATENED NORTHERN LONG-EARED BAT (MYOTIS SEPTENTRIONALIS), AND MAY IMPACT SUMMER ROOSTING HABITAT FOR THESE SPECIES. PER U.S. FISH AND WILDLIFE RECOMMENDATIONS, THE REMOVAL OF TREES GREATER THAN OR EQUAL TO 3-INCHES IN DIAMETER SHOULD ONLY OCCUR BETWEEN OCTOBER 1 AND MARCH 31. IF THIS TIME FRAME CANNOT BE FOLLOWED, THE U.S. FISH AND WILDLIFE SERVICE (614-416-8993) MUST BE CONTACTED PRIOR TO CUTTING FOR GUIDANCE TO CONDUCT AN EMERGENCE SURVEY TO DOCUMENT THE ABSENCE OR PRESENCE OF THESE SPECIES.

1. CONTRACTORS AND SUBCONTRACTORS ARE REQUIRED UNDER OHIO REVISED CODE SECTION 149.53 TO NOTIFY THE OHIO HISTORICAL SOCIETY AND THE OHIO HISTORIC SITE PRESERVATION BOARD OF ARCHAEOLOGICAL DISCOVERIES LOCATED IN THE PROJECT AREA AND TO COOPERATE WITH THOSE ENTITIES IN ARCHAEOLOGICAL AND HISTORIC SURVEYS AND SALVAGE EFFORTS IF SUCH DISCOVERIES ARE UNCOVERED

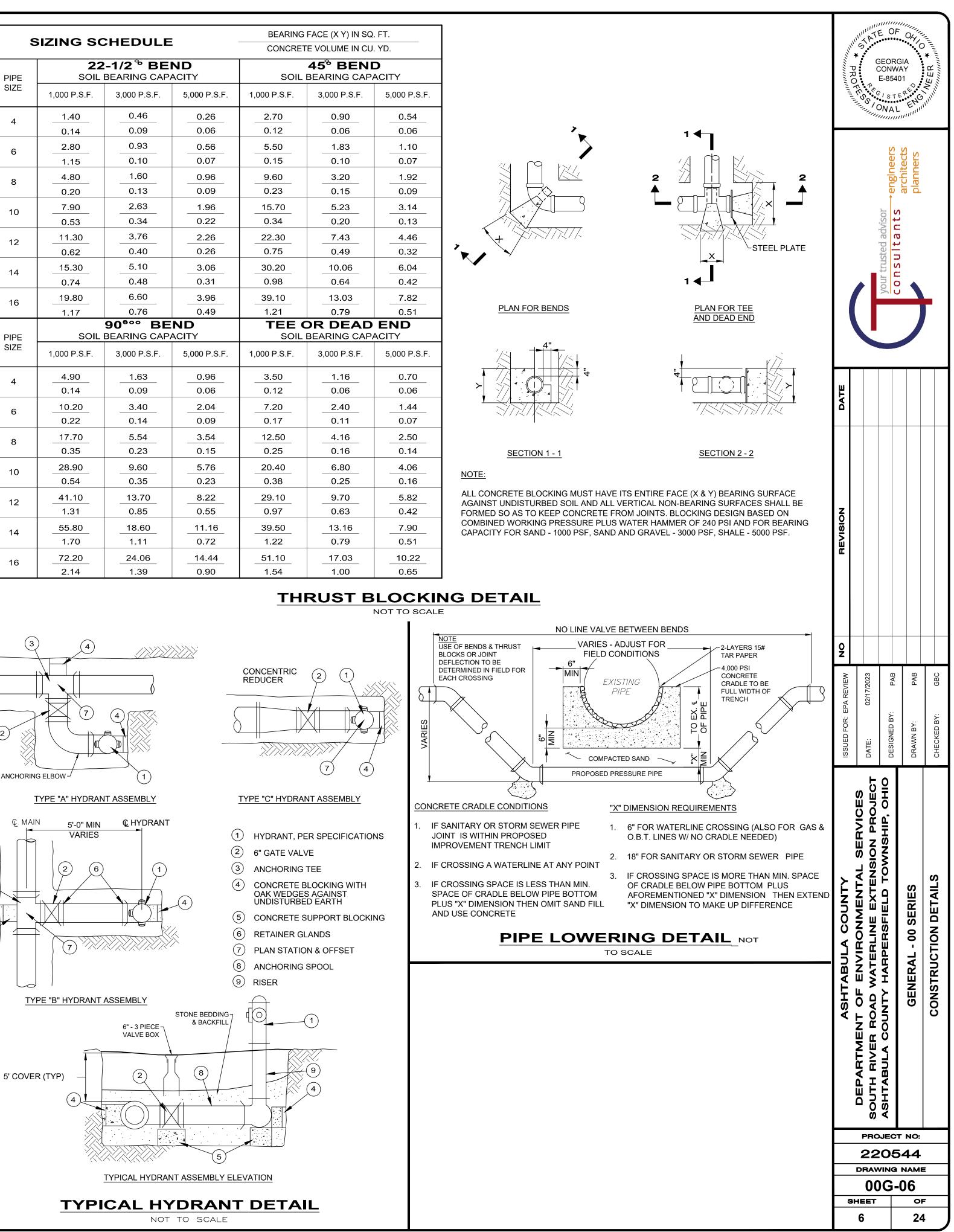


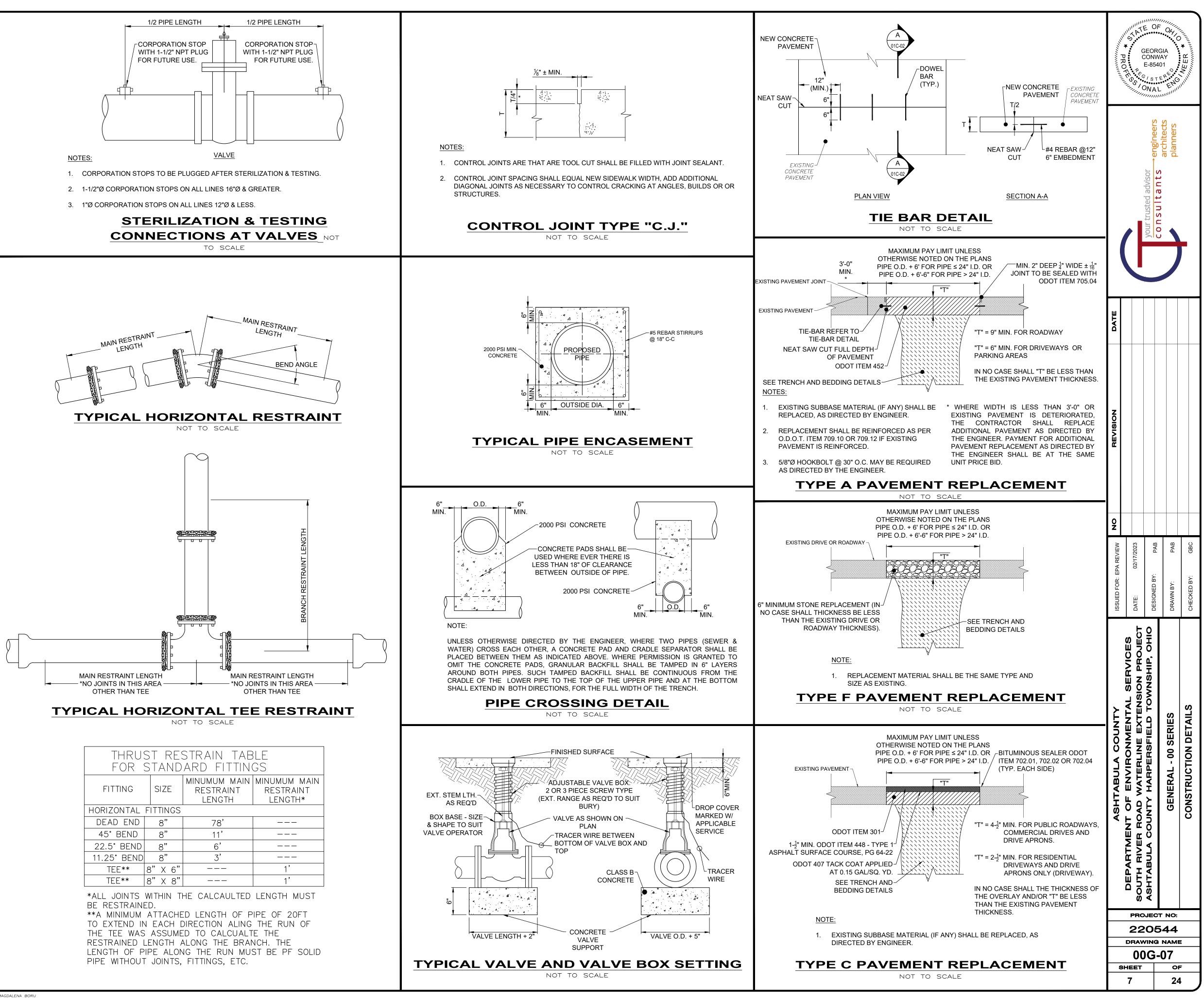


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NOT TO SCALE

c			-	BEARING FACE (X Y) IN SQ. FT.			
3	SIZING SC	,UCDOLE		CONCRET	E VOLUME IN CU	. YD.	
PIPE		E -1/2 [®] BE		SOIL	45° BENI BEARING CAP		
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	1.40	0.46	0.26	2.70	0.90	0.54	
•	0.14	0.09	0.06	0.12	0.06	0.06	
6	2.80	0.93	0.56	5.50	1.83	1.10	
	1.15	0.10	0.07	0.15	0.10	0.07	
8	4.80	1.60	0.96	9.60	3.20	1.92	
	0.20	0.13	0.09	0.23	0.15	0.09	
10	7.90	2.63	1.96	15.70	5.23	3.14	
	0.53	0.34	0.22	0.34	0.20	0.13	
12	11.30	3.76	2.26	22.30	7.43	4.46	
12	0.62	0.40	0.26	0.75	0.49	0.32	
14	15.30	5.10	3.06	30.20	10.06	6.04	
14	0.74	0.48	0.31	0.98	0.64	0.42	
16	19.80	6.60	3.96	39.10	13.03	7.82	
10	1.17	0.76	0.49	1.21	0.79	0.51	
PIPE		90 ^{°°} BE BEARING CAP		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	4.90	1.63	0.96	3.50	1.16	0.70	
4	0.14	0.09	0.06	0.12	0.06	0.06	
6	10.20	3.40	2.04	7.20	2.40	1.44	
0	0.22	0.14	0.09	0.17	0.11	0.07	
8	17.70	5.54	3.54	12.50	4.16	2.50	
0	0.35	0.23	0.15	0.25	0.16	0.14	
10	28.90	9.60	5.76	_20.40	6.80	4.06	
10	0.54	0.35	0.23	0.38	0.25	0.16	
12	41.10	13.70	8.22	29.10	9.70	5.82	
12	1.31	0.85	0.55	0.97	0.63	0.42	
14	55.80	18.60	11.16	39.50	13.16	7.90	
	1.70	1.11	0.72	1.22	0.79	0.51	
16	72.20	24.06	14.44	51.10	17.03	10.22	
	2.14	1.39	0.90	1.54	1.00	0.65	





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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 $\frac{1}{2}$ " 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

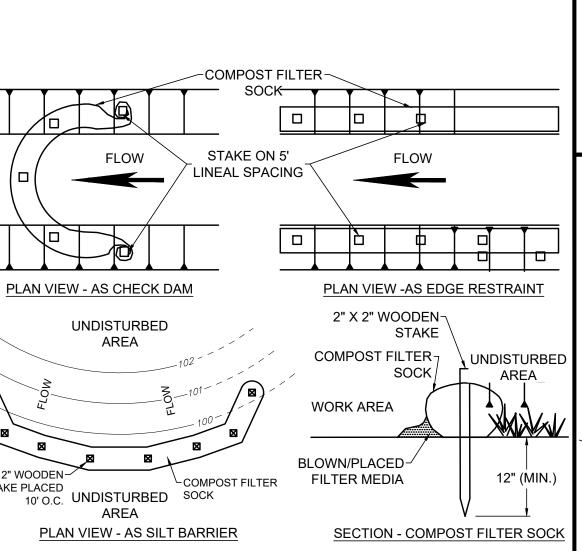
2" X 2" WOODEN-STAKE PLACED

NOTES:

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES ½ THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED IN THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL.

- SUPPLEMENT.

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.

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.**

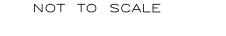
SOCK FABRIC AND COMPOST SHALL MEET THE STANDARDS OF THE LATEST VERSION OF THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL

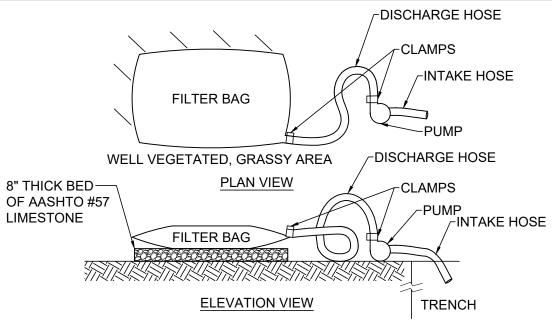
BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

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

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





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.

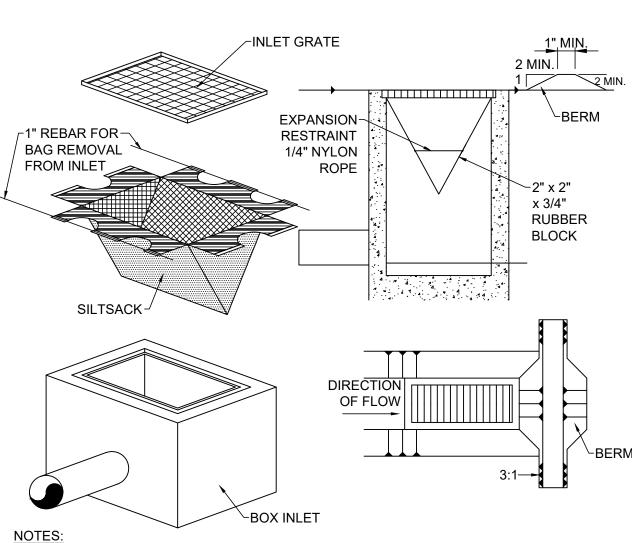
PLACE BAGS IN WELL-VEGETATED (GRASSY) AREAS, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE. PROVIDE A GEOTEXTILE FLOW PATH. DO NOT PLACE BAGS ON SLOPES GREATER THAN 5%.

4. 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.

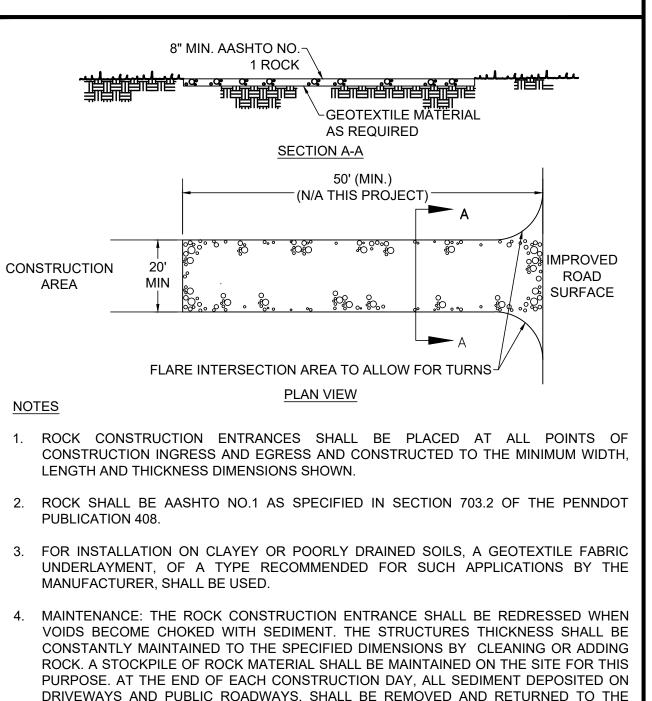
PUMPED WATER FILTER BAG DETAIL NOT TO SCALE



MAXIMUM DRAINAGE AREA =1/2 ACRE.

- 2. INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP.
- . BERMS REQUIRED FOR ALL INSTALLATIONS.
- 3.1. EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED.
- 3.2. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED.
- 3.3. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.





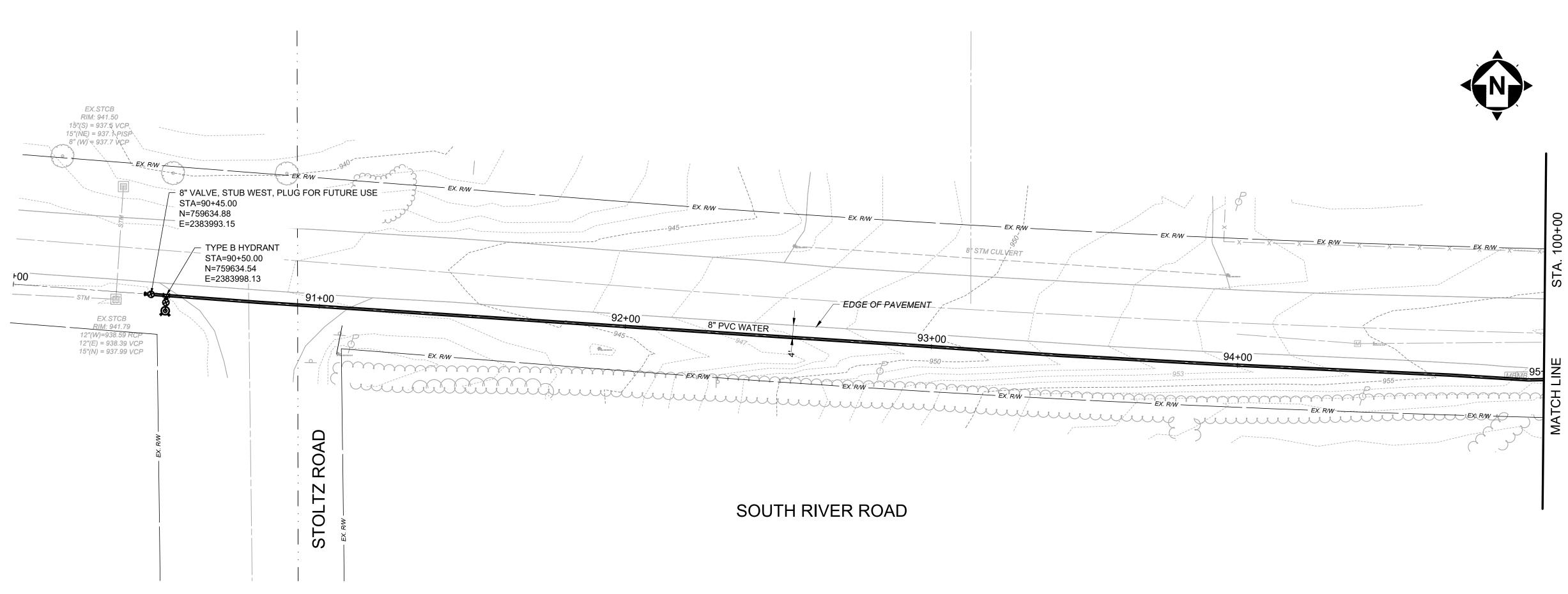
CONSTRUCTION SITE. WASHING OF THE DRIVEWAYS OR ROADWAYS WITH WATER IS

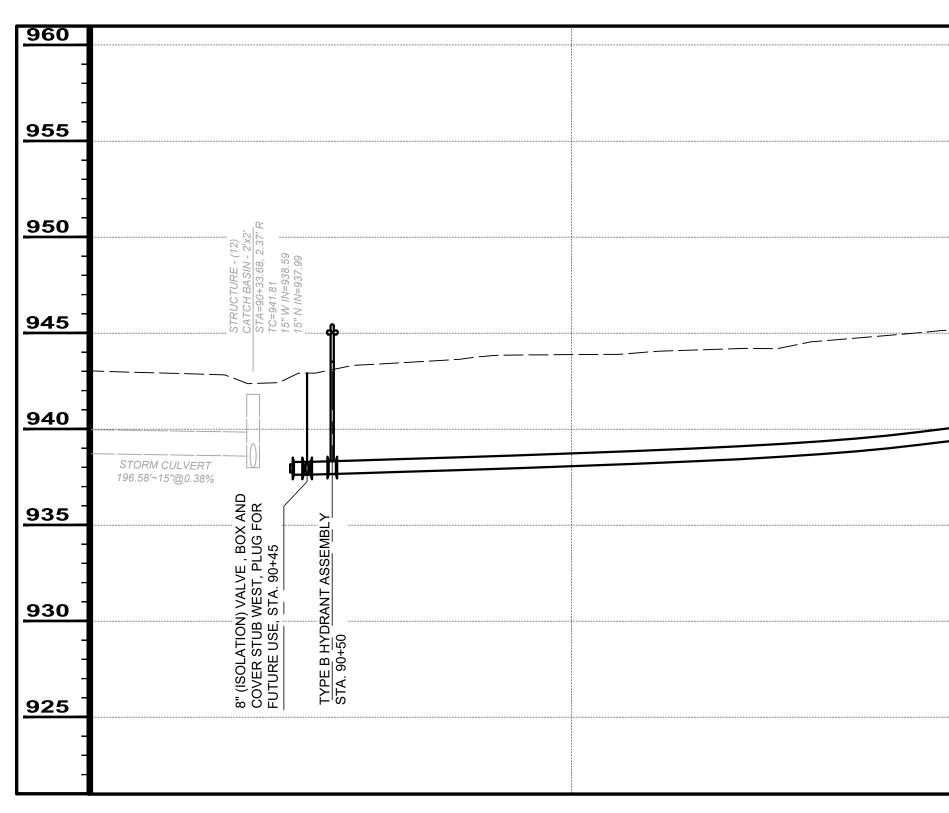
ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE

NOT PERMITTED.

	ERMANENT SEED MIX:	1	""XAT	E OF	04	
TY	PE GERMINATION RATE APPLICATION RATE RMANENT SEED MIXTURE FOR SLOPES 3:1 AND LESS			GEORO		*
	 KENTUCKY BLUEGRASS 85% 1 LBS, PER 	PRO	(CONW E-8540	AY	VEER
20 30	% PERENNIAL RYEGRASS90%1250 SF% CREEPING RED FESCUE88%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	то « , () ••••• ••••••••••••••••••••••••••••••	ENG	Mannin, Mannin
	% PURE LIVE SEED RMANENT SEED MIXTURE FOR SLOPES GREATER THAN 3:1		~1111		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	% ANNUAL RYEGRASS 90% 1 LBS. PER			S	ស ^ស	
25	% KENTUCKY BLUEGRASS 90% 1000 SF % TALL FESCUE 90%			engineers	architect planners	
15	% BIRDSFOOT TREFOIL 90% % WHITE CLOVER 90%			eng	arch plar	
5%	% CLIMAX TIMOTHY 90% % REDTOP 90%			20		
	% PURE LIVE SEED PLICATION RATE: 100 LB/ACRE			advisor a n t s		
FE	RTILIZER 10-20-20, APPLICATION RATE: 680 LB/ACRE /ING RATE: 2.0 TON/ACRE			usted		
Μl	ILCH: STRAW - MULCHING RATE: 3.0 TON/ACRE OTECT SEED WITH: NAG 575 OR APPROVED SUBSTITUTE			P 2		
	EDING SEASONS: MARCH 15 - JUNE 1 & AUG 1 - OCT 15			Inox		
	DEGRADABLE EROSION CONTROL MATTING/BLANKET					
PF	EMPORARY DEGRADABLE ROLLED EROSION CONTROL PRODUCT COMPOSED OF OCESSED NATURAL FIBERS MECHANICALLY BOUND TOGETHER TO FORM A CONTINUOUS TRIX. AREAS WITH SLOPES GREATER THAN 3:1 SHALL BE PROTECTED WITH NORTH					
	IRIX. AREAS WITH SLOPES GREATER THAN 3:1 SHALL BE PROTECTED WITH NORTH IERICAN GREEN S75BN EROSION CONTROL BLANKET (ECB) OR APPROVED SUBSTITUTE.					
-		ш				
	EMPORARY SEED MIX:	DATE				
%	ECIES: ANNUAL RYE PURE LIVE SEED: 98%					
FE	PLICATION RATE: 50 LB/ACRE RTILIZER: 10-20-20 RTILIZER APPLICATION RATE: 680 LB/ACRE					
LIN	RTILIZER APPLICATION RATE: 680 LB/ACRE /ING RATE: 2.0 TON/ACRE /LCH: STRAW					
	ILCHING RATE: 3.0 TON/ACRE					
		z				
		RVISION				
		Ш Ш				
	STAKES PLACED 5' O.C. WASHOUT WATER IS 50% OF FILTER RING HEIGHT	<u>o</u>				
	GEOMEMBRANE					
	FILTER SUCK	EPA REVIEW	02/17/2023	PAB	PAB	GBC
~			02/	BY:		
		ED FOR:		-	'N BY:	KED BY:
21	SECTION A-A	ISSUED FC	DATE:	DESIGNED	DRAWN B	CHECKED
	4' MIN. OVERLAP ON UPSLOPE SIDE OF FILTER RING					
	WASHOUT WATER INTO FILTER RING		S EC	OHO		
			SERVICES ON PROJECT	HIP, O		
			m —	Ø		
	-2"X2"X36" WOODEN STAKES PLACED 5' O.C.		- SI SIOI	TOWN		
	STARES FLACED 3 0.0.	≿	IENTAL SEI EXTENSION	-	S	R
				ELD	SERIES	ETAI
	25' DIAMETER	COUNT	ZZ ZZ ZZ			N DE
		4	ENVIRONMENT WATERLINE EXTE	RPERSFI	00	CONSTRUCTION DETAILS
<u>N</u> O	PLAN VIEW TES:	ASHTABUL	ATE ATE	HARF	GENERAL -	RUC
1.	PROVIDE PROPER SIGNAGE FOR CONCRETE DELIVERY VEHICLE DRIVERS SO THAT THEY	HTA H	, >		ENE	NST
2.	ARE AWARE OF THE PRESENCE OF WASHOUT FACILITIES. WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50' OF STORM DRAINS, OPEN	ASI	. 2		IJ	CO
∠.	DITCHES, OR SURFACE WATERS. UNDER NO CIRCUMSTANCES SHOULD WASH WATER BE ALLOWED TO ENTER ANY SURFACE WATERS.			õ		
3.	WHEREVER POSSIBLE, CONCRETE WASHOUTS SHOULD BE LOCATED ON SLOPES NOT		RTME RIVER	ůLA ÜLA		
	EXCEEDING A 2% GRADE.		ΓI	A A		
4.	A SUITABLE IMPERVIOUS GEOMEMBRANE SHOULD BE PLACED AT THE LOCATION OF THE WASHOUT. COMPOST SOCKS SHOULD BE STAKED IN THE MANNER RECOMMENDED BY			SHT/		
	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		_ 0	SA		
	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.				「 NO:	
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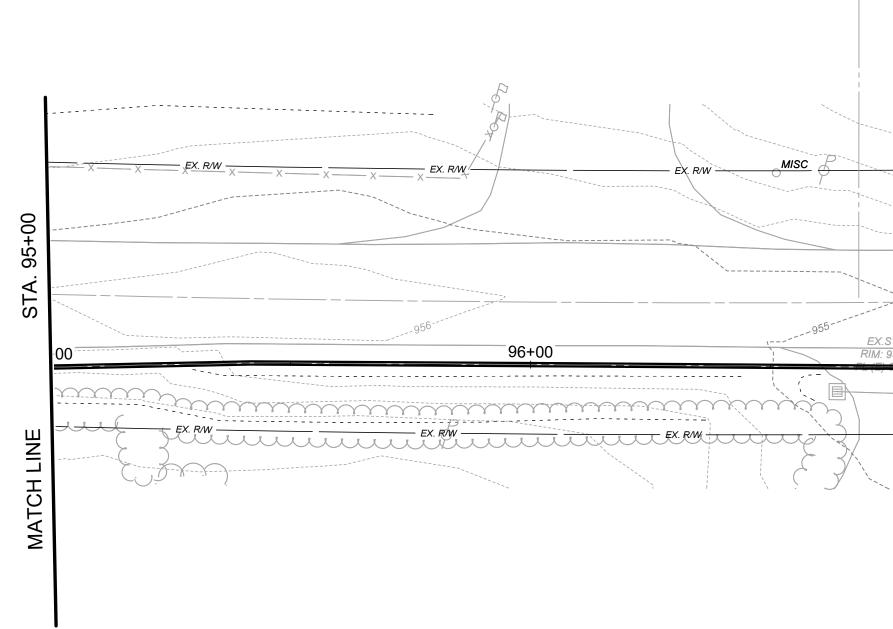




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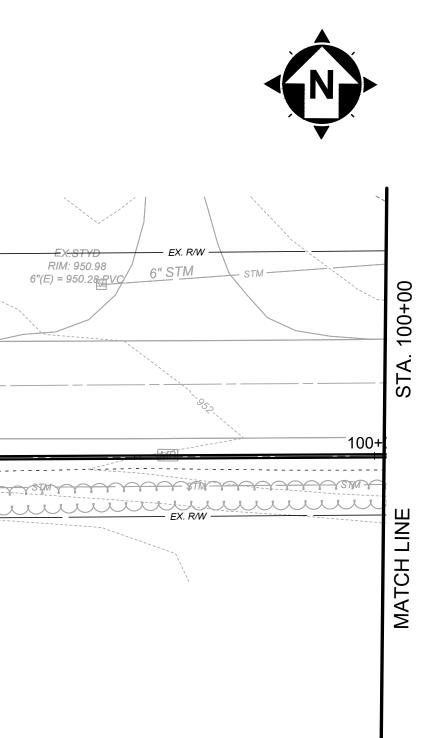
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<u>955</u>	Be-LOO N.21 1966-LOO N.21 1967-00 N.21 1967-00 N.21 1975-00 N.21 - EXISTING GRADE OVER WATERLINE	- - 955
<u>950</u>	STO. CULVERT 78.05'~12"@-1.76%	- - 950
<u>945</u>	SEE PIPE CROSSING DETAIL 8" PVC WATER	- - 945 -
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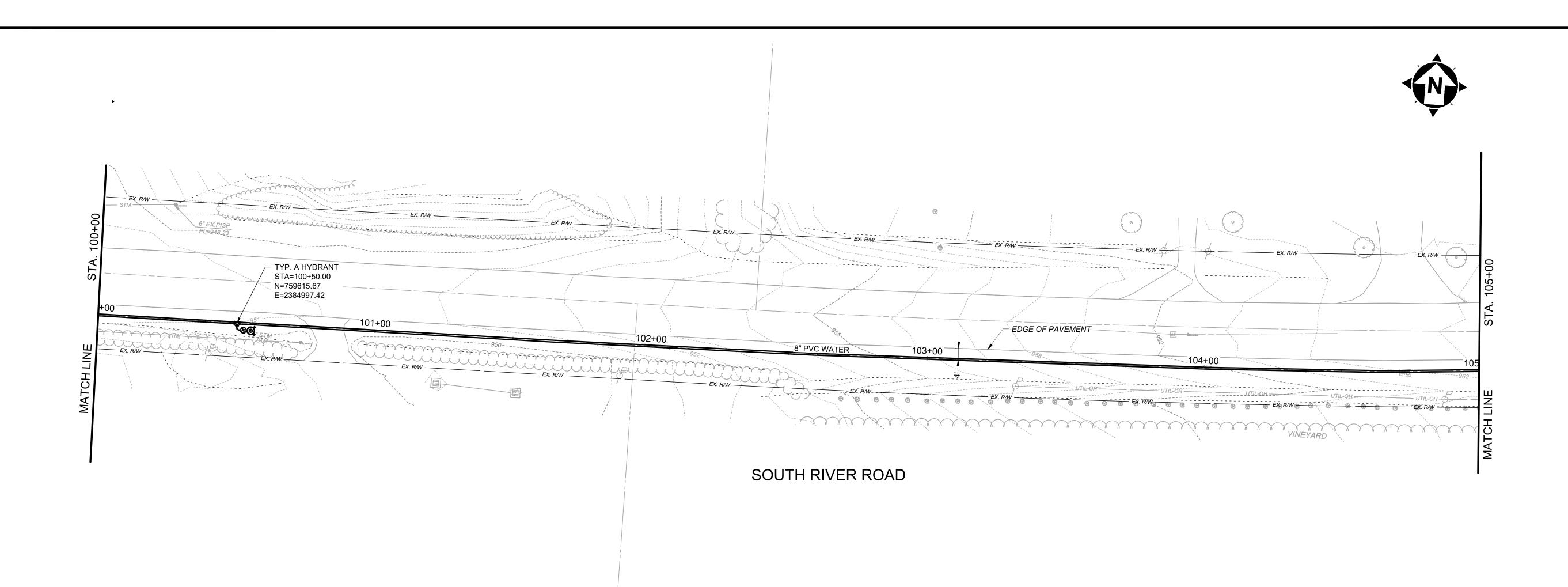
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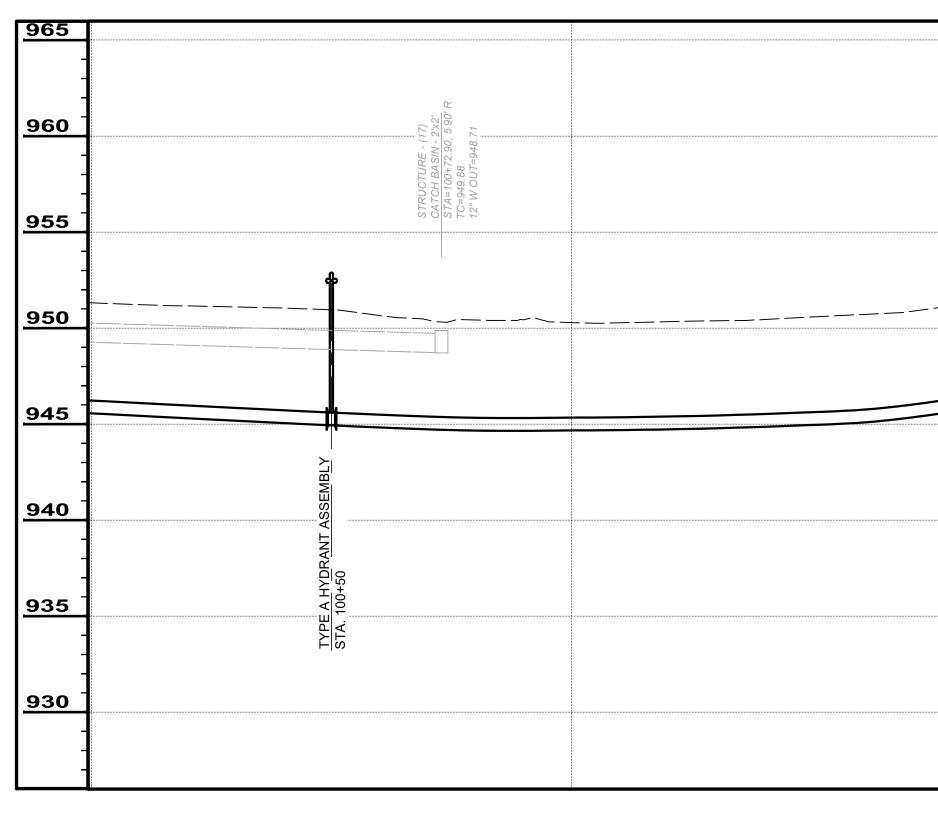
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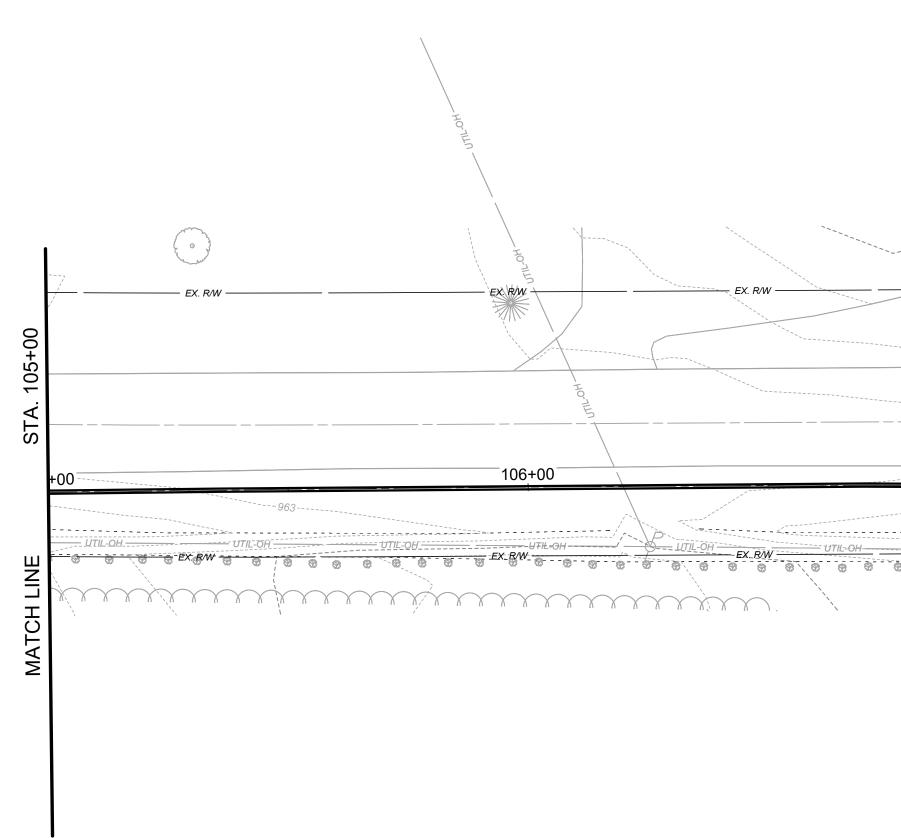




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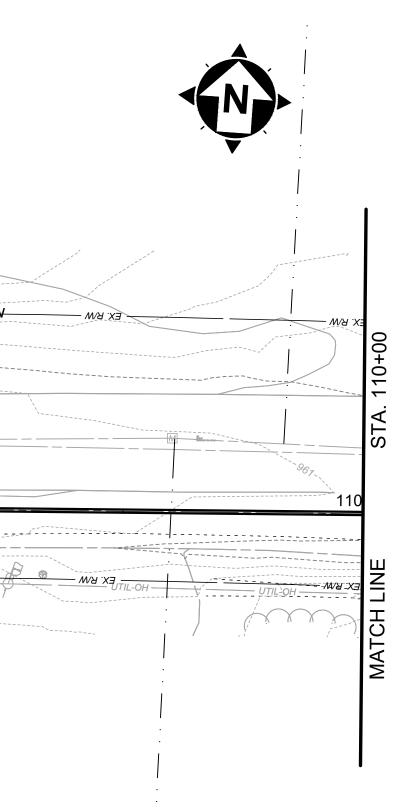
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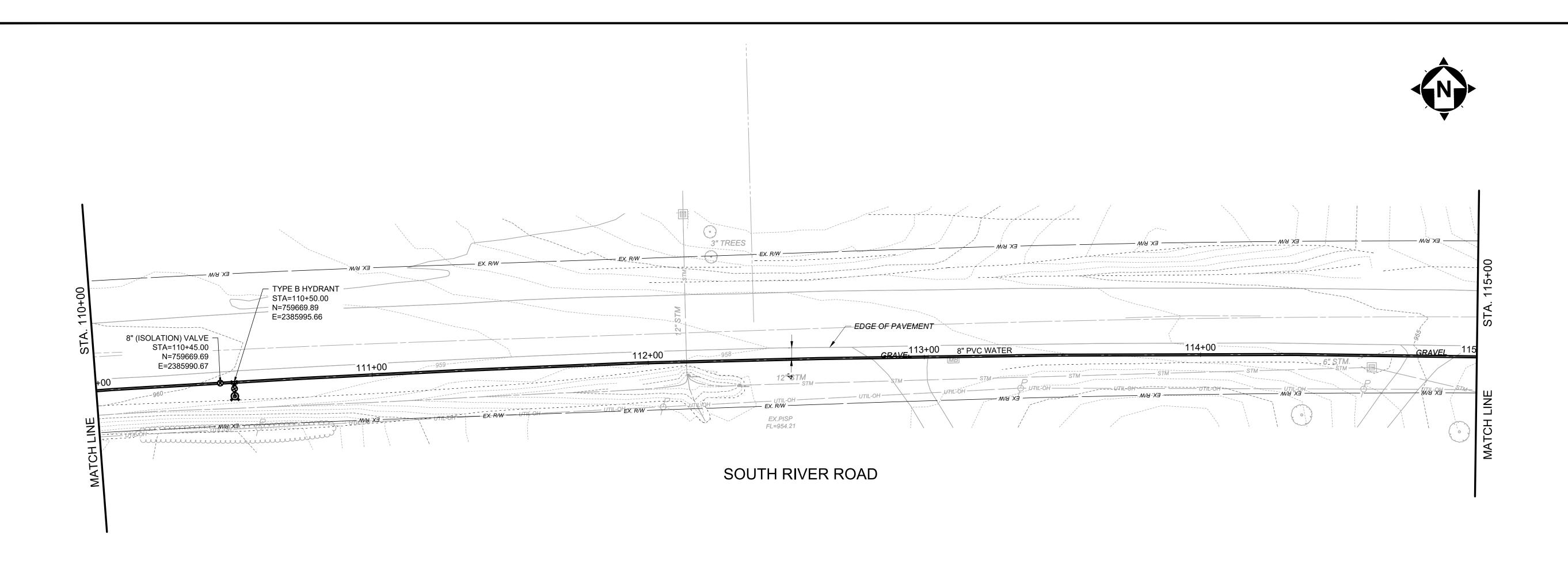
SOUTH RIVER ROAD

EXISTING GRADE UVI	EK WAIERLINE	
 DRIVEWAY CULVERT 30.11'~12"@-0.50%	DRIVEWAY CULVERT 24.49'~12"@1:96% 44.33'~12"@-1.92%	
 └─ EX. 12" STM CULVERT INV=958.86		
8" PVC WATER	R	

DEPARTMEN SOUTH RIVER F ASHTABULA CC	ASHTABULA COUNTY ISSUED FOR: EPA REVIEW PARTMENT OF ENVIRONMENTAL SERVICES ISSUED FOR: EPA REVIEW PARTMENT OF ENVIRONMENTAL SERVICES DATE: 02/17/2023 H RIVER ROAD WATERLINE EXTENSION PROJECT DATE: 02/17/2023 ABULA COUNTY HARPERSFIELD TOWNSHIP, OHIO DESIGNED BY: RLM PLAN DROFILES - 01 SERIES DRAWN BY: RLM
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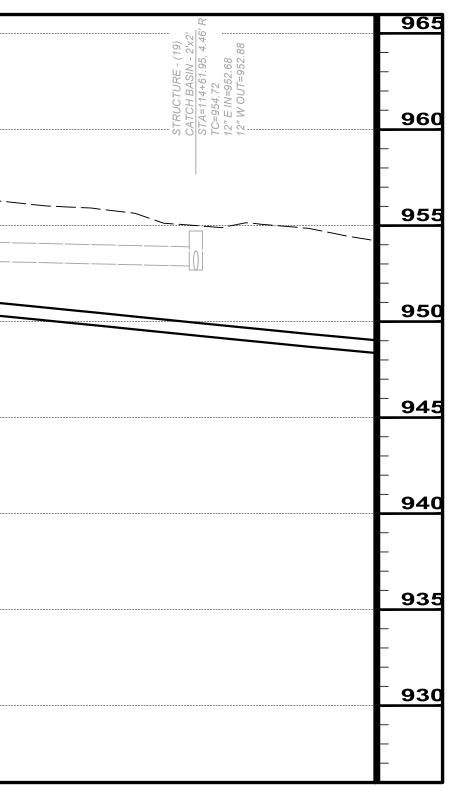
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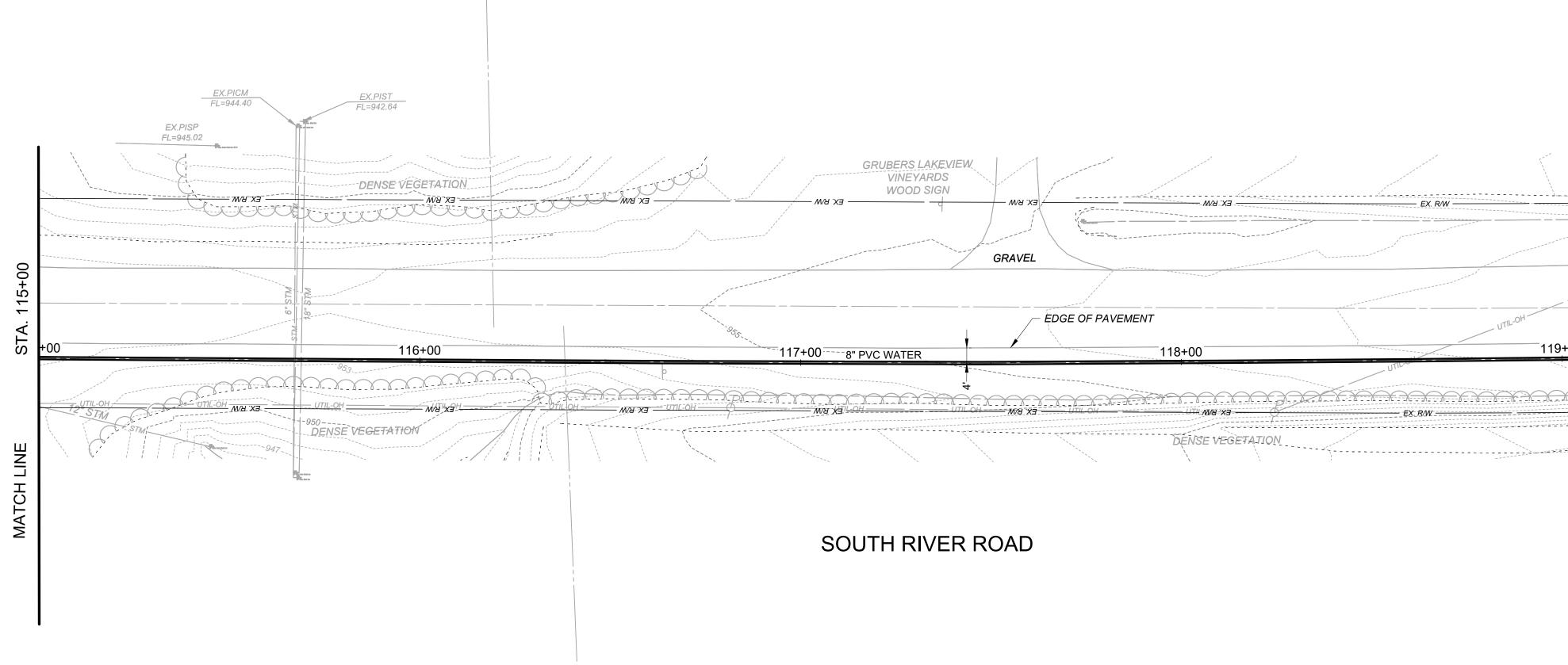


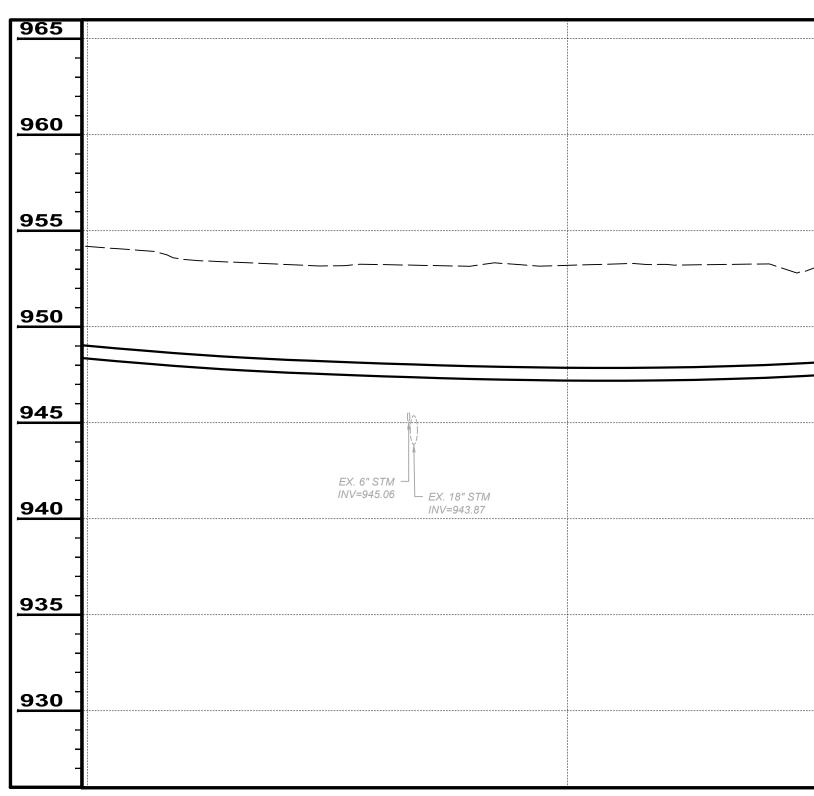
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<u>945</u>	8" (ISOLATION) VALVE , BOX AND COVER STA. 110-45 TYPE B HYDRANT ASSEMBLI STA. 110+50			
<u>940</u>				
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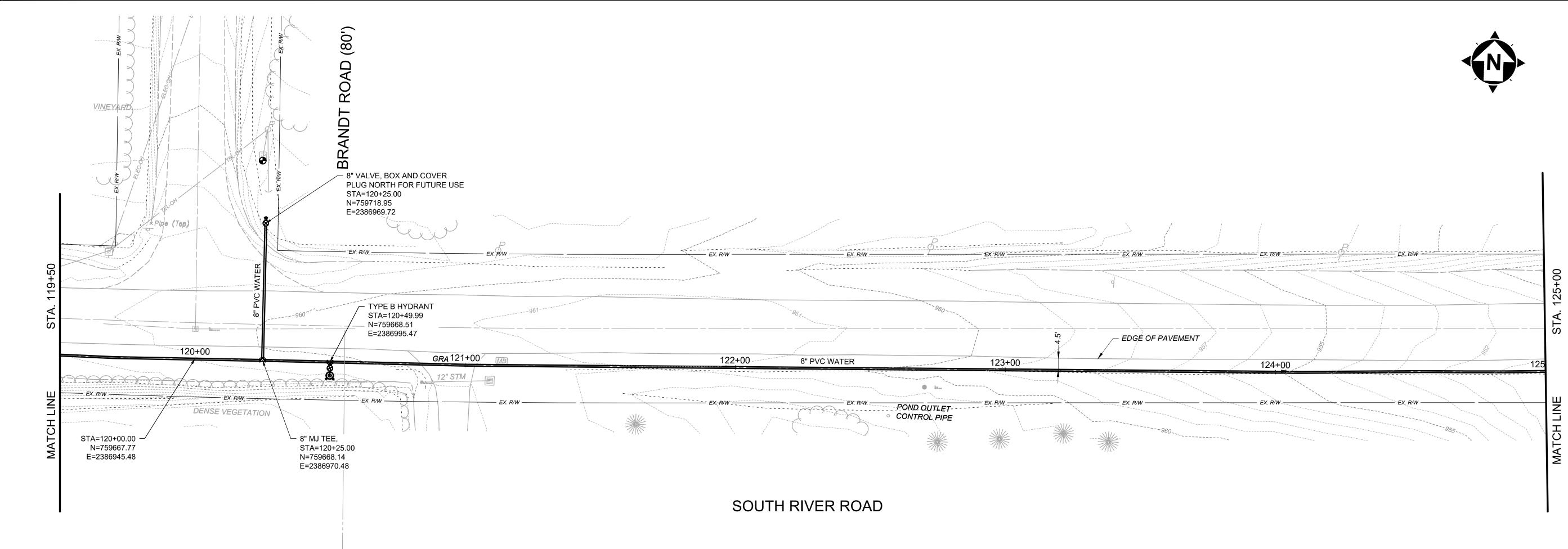


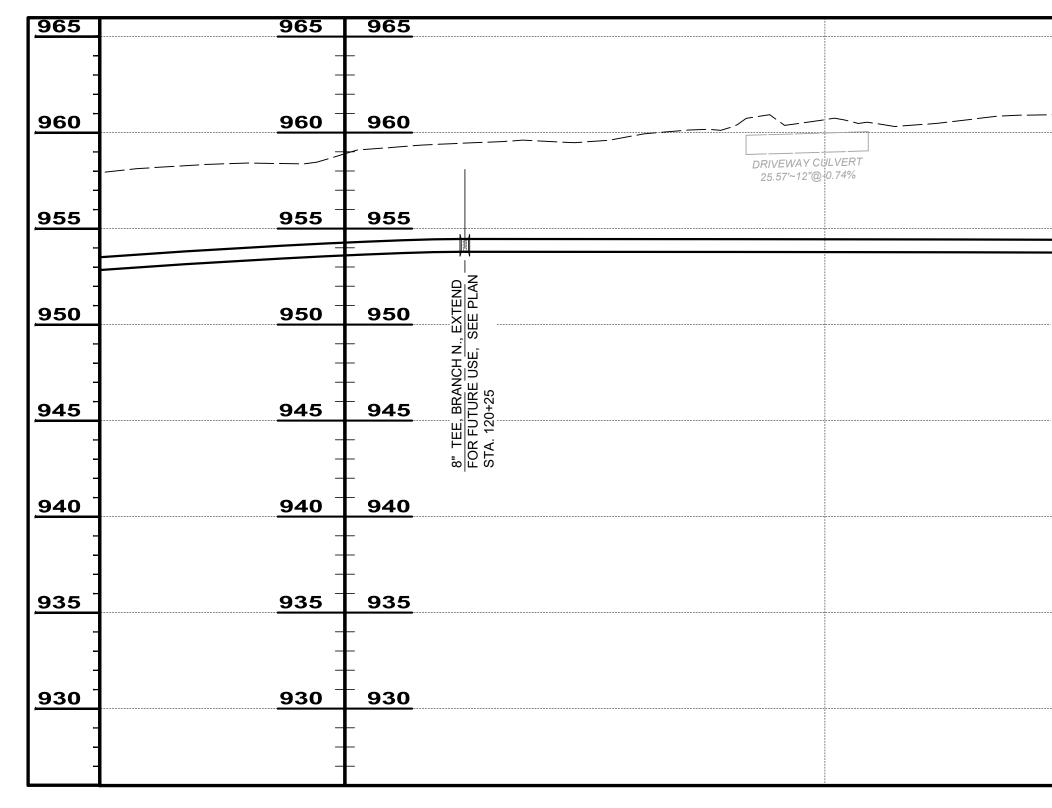
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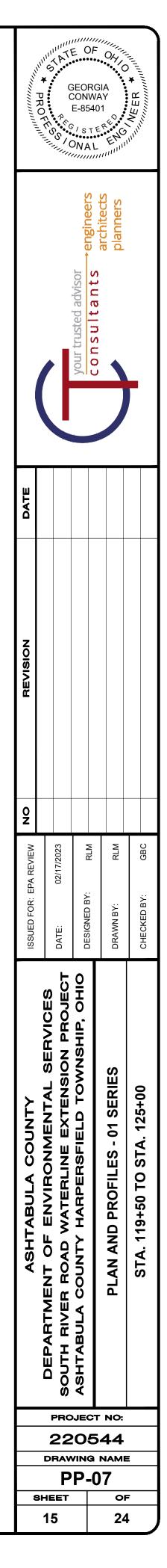
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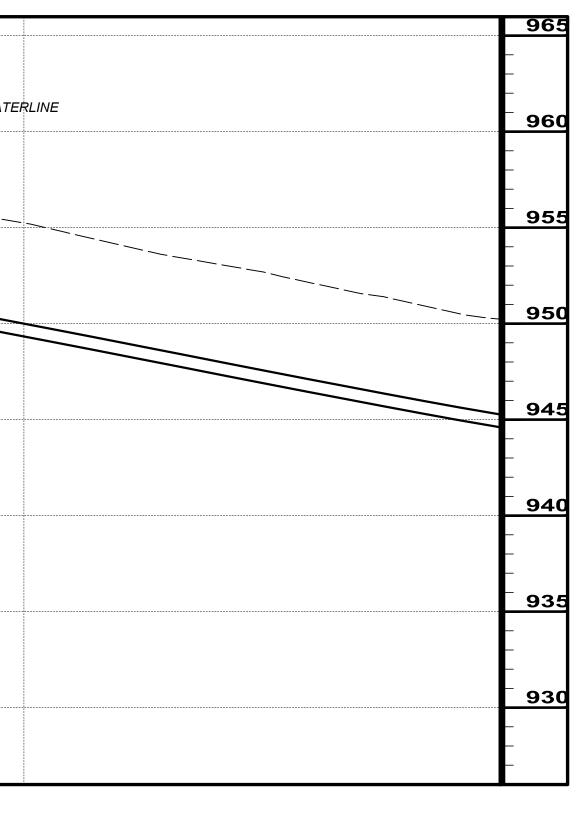


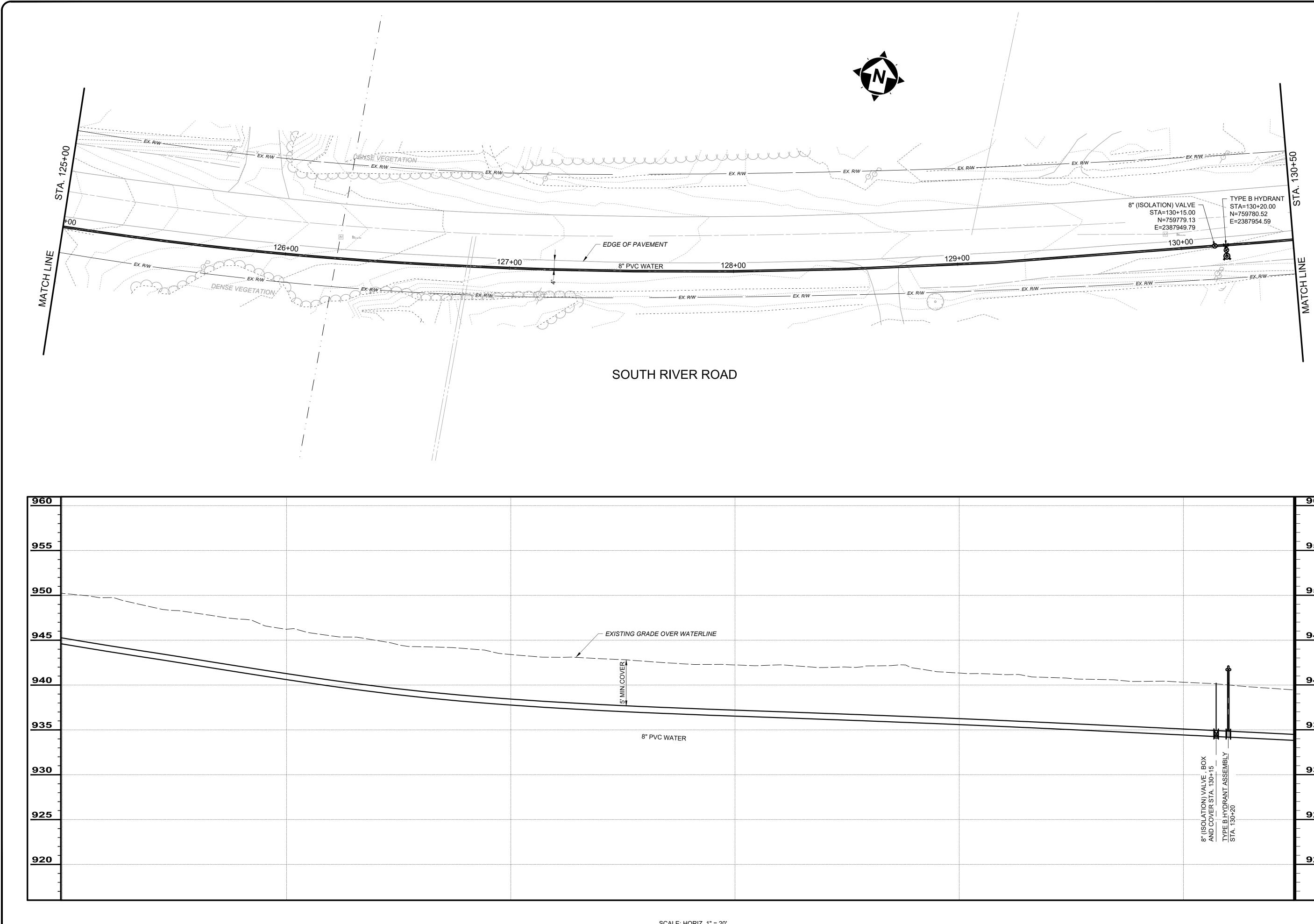


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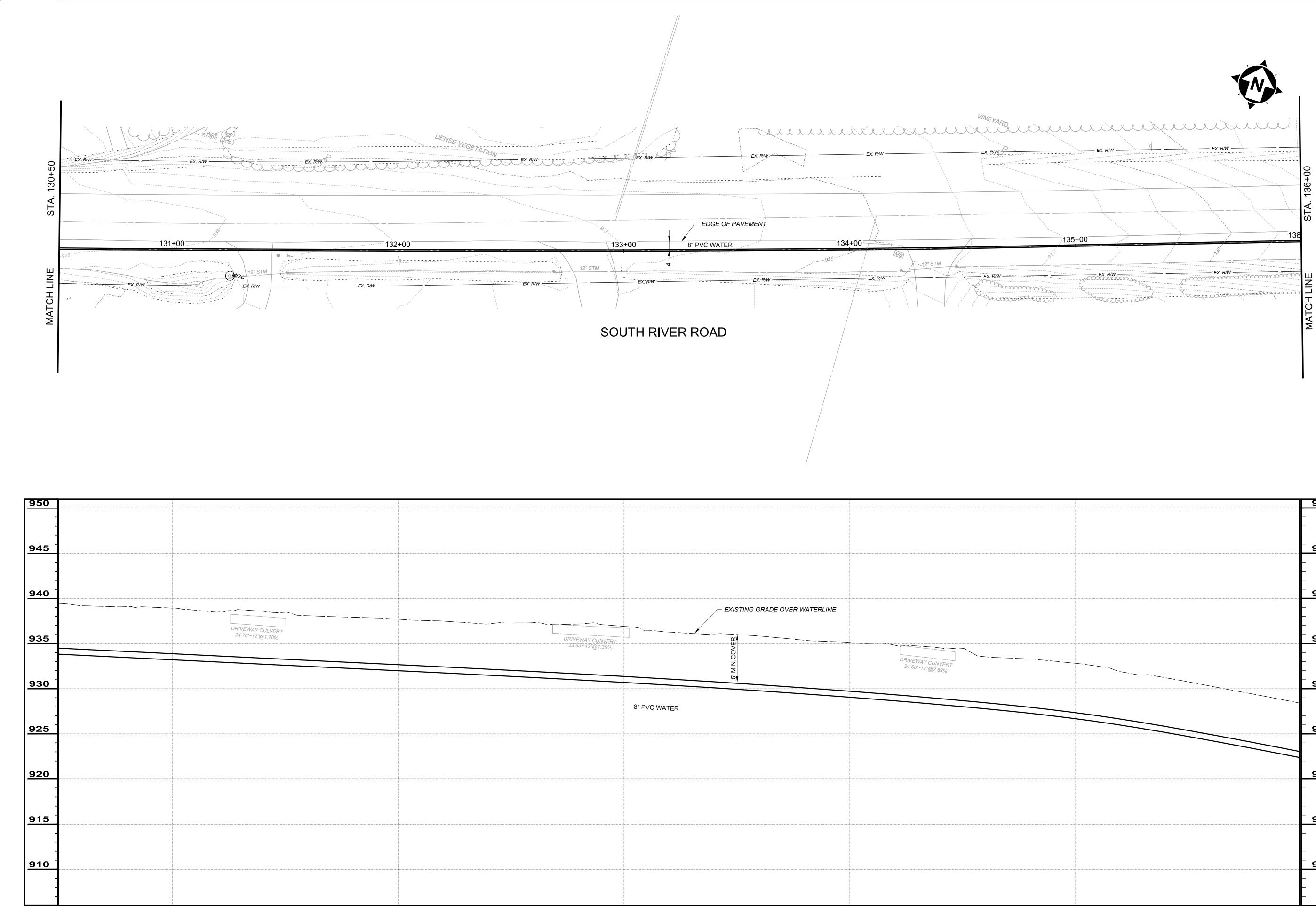






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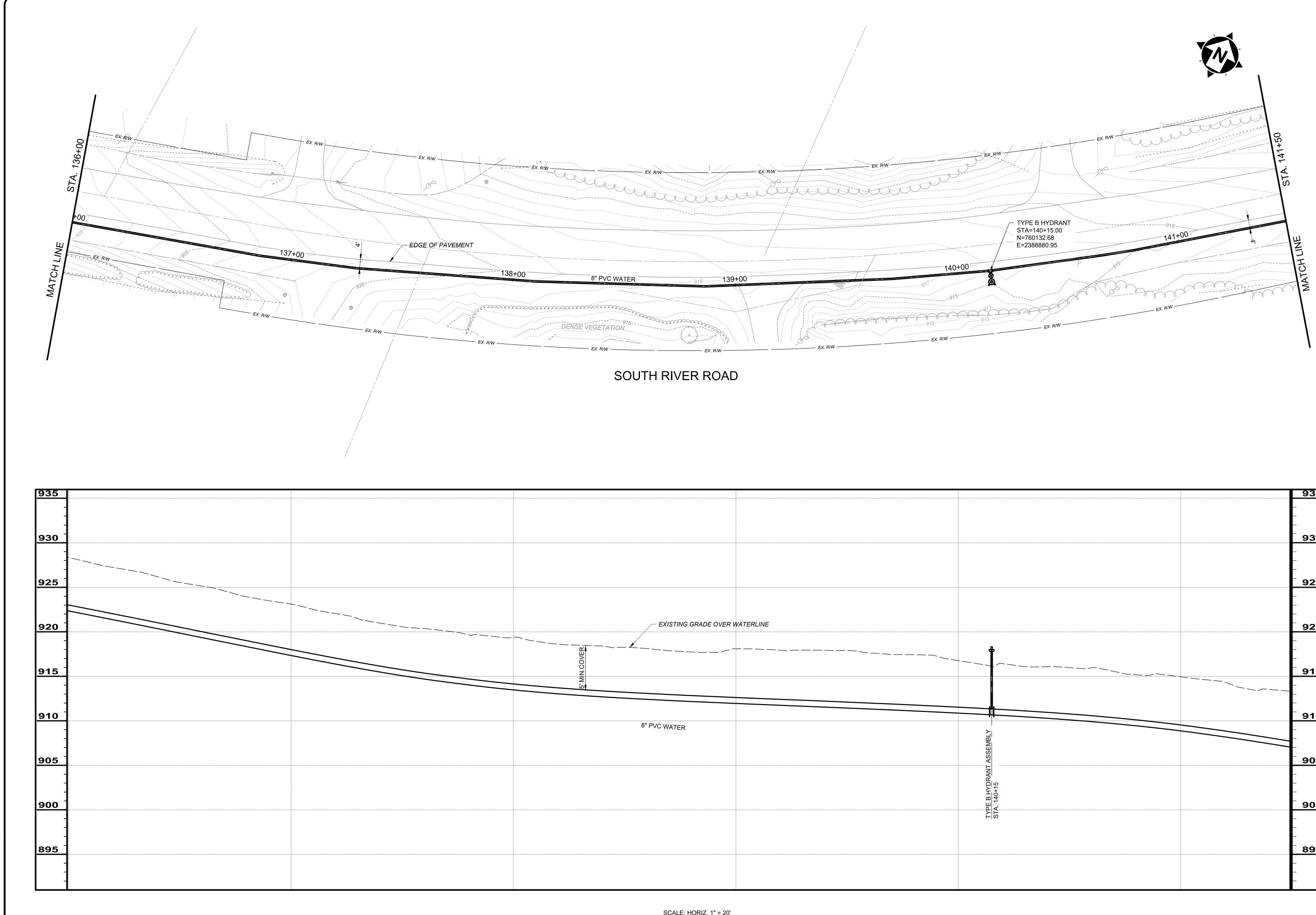
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DRIVEWAY CUNVERT 33.93'~12"@1.36%		
		DRIVEWAY CUNVERT 24.60'~12"@2.89%
	8" PVC WATER	

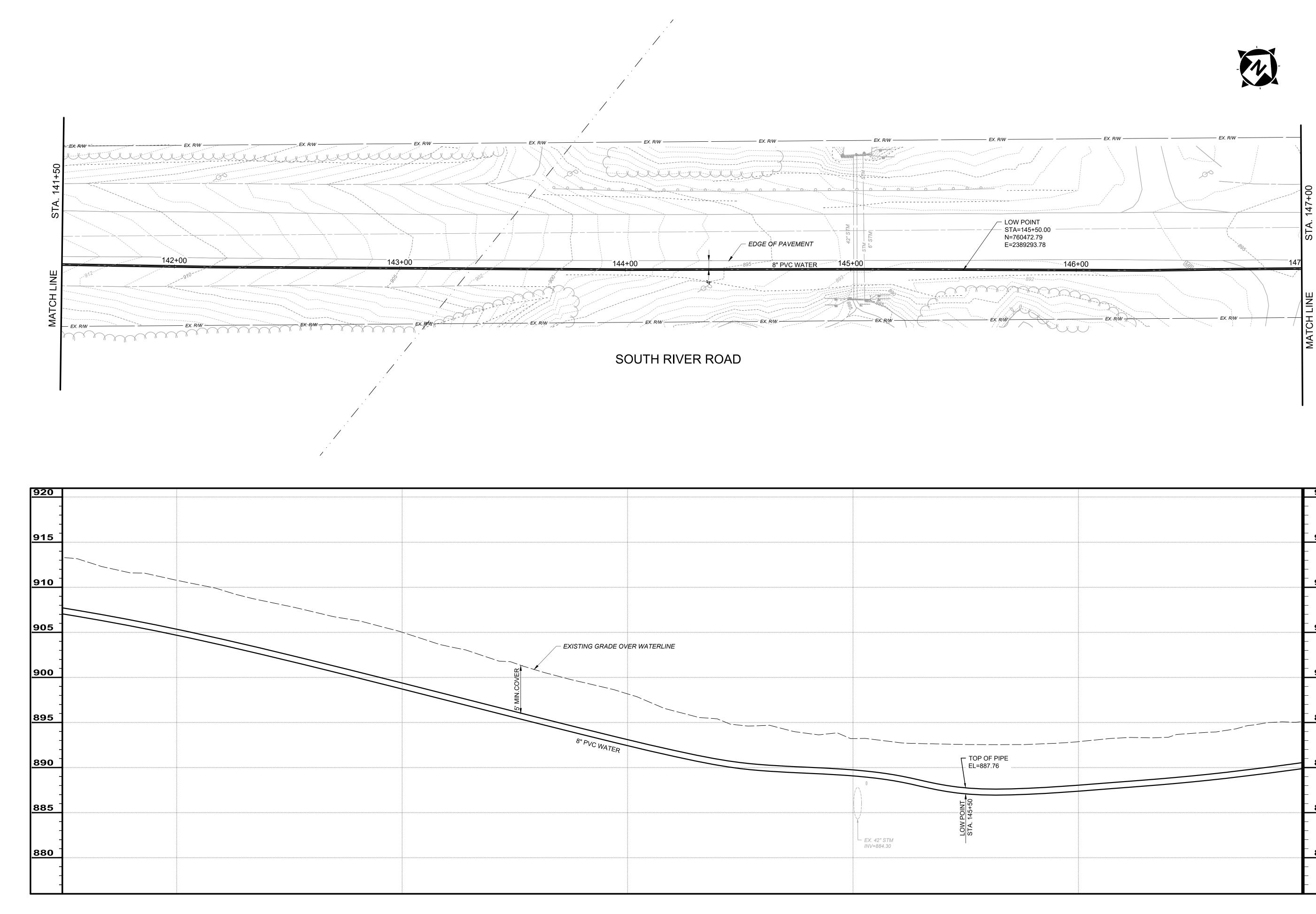
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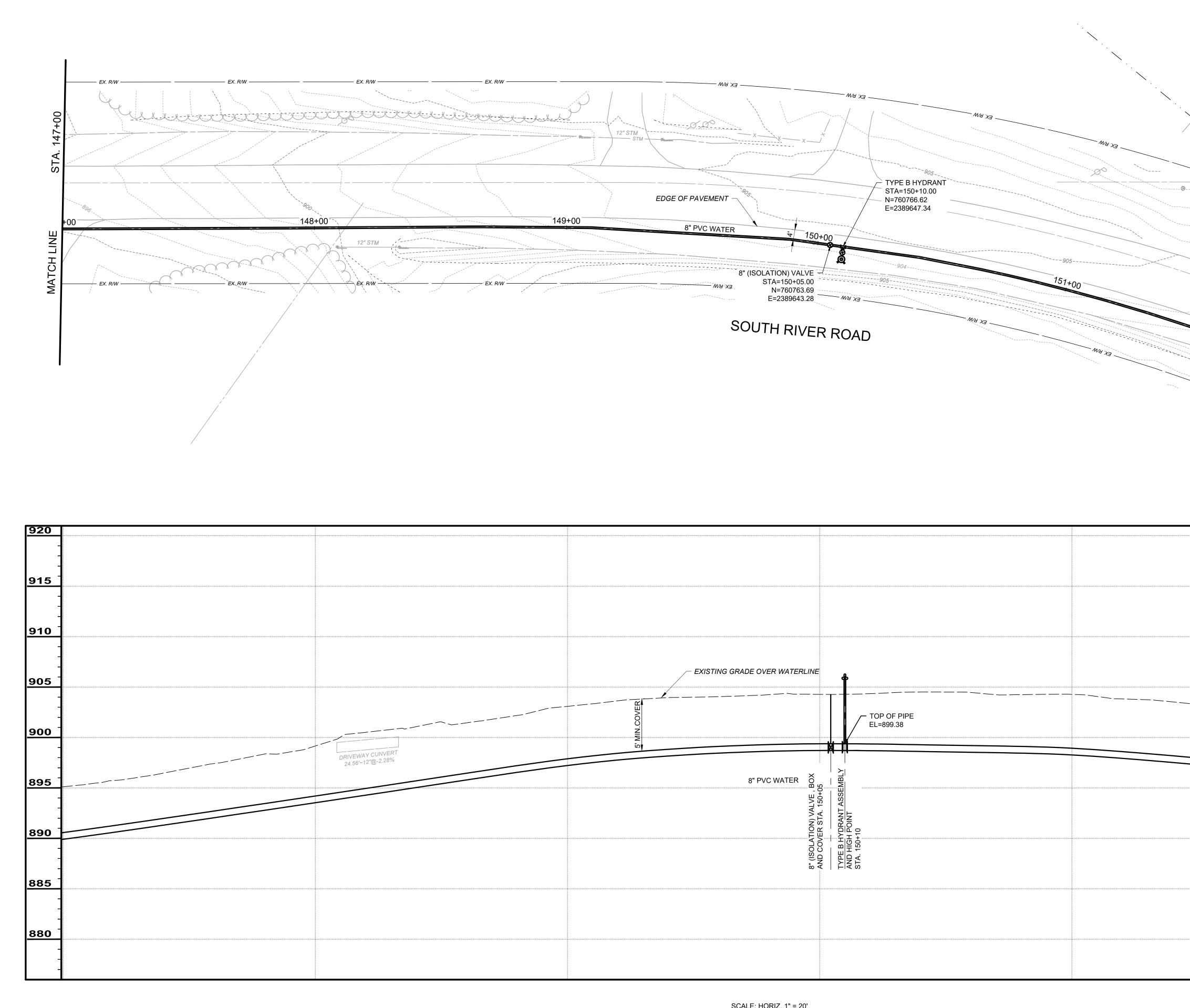
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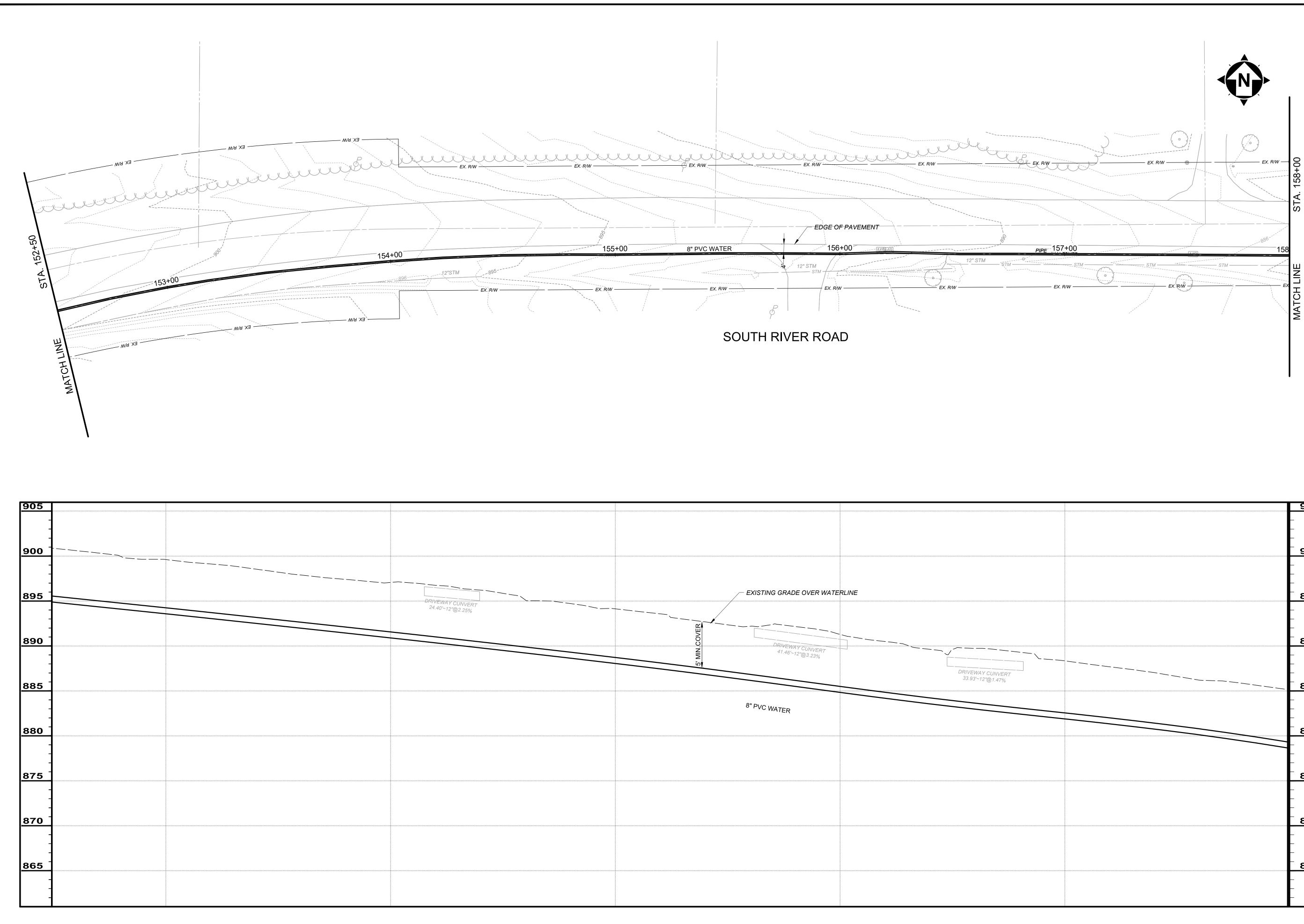
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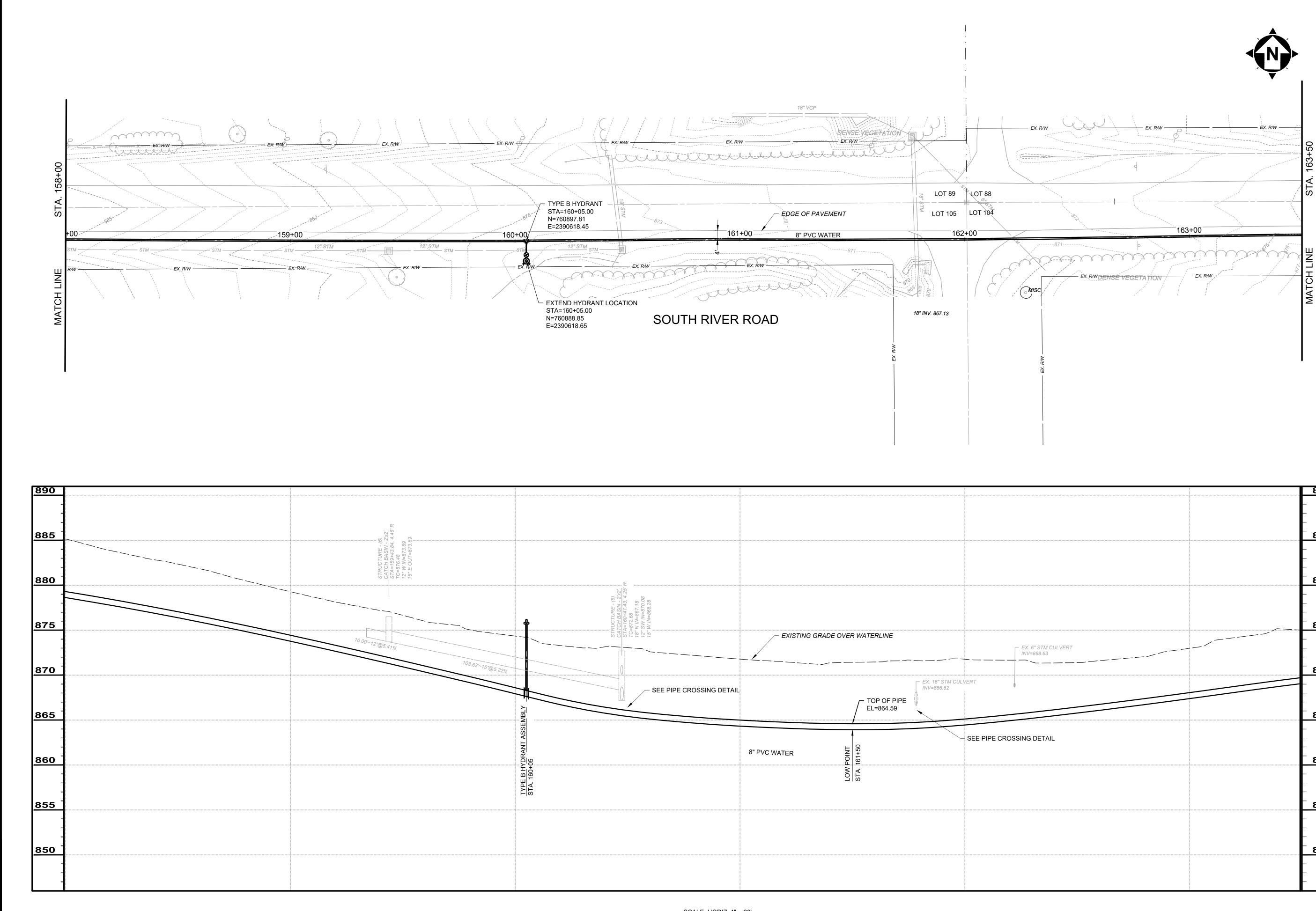
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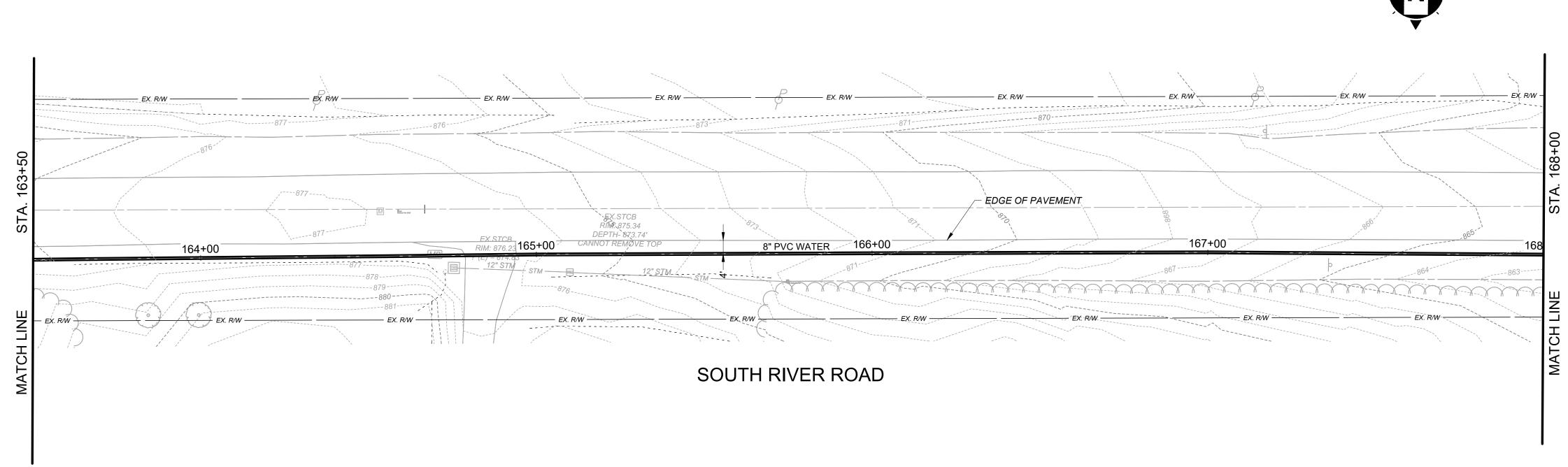
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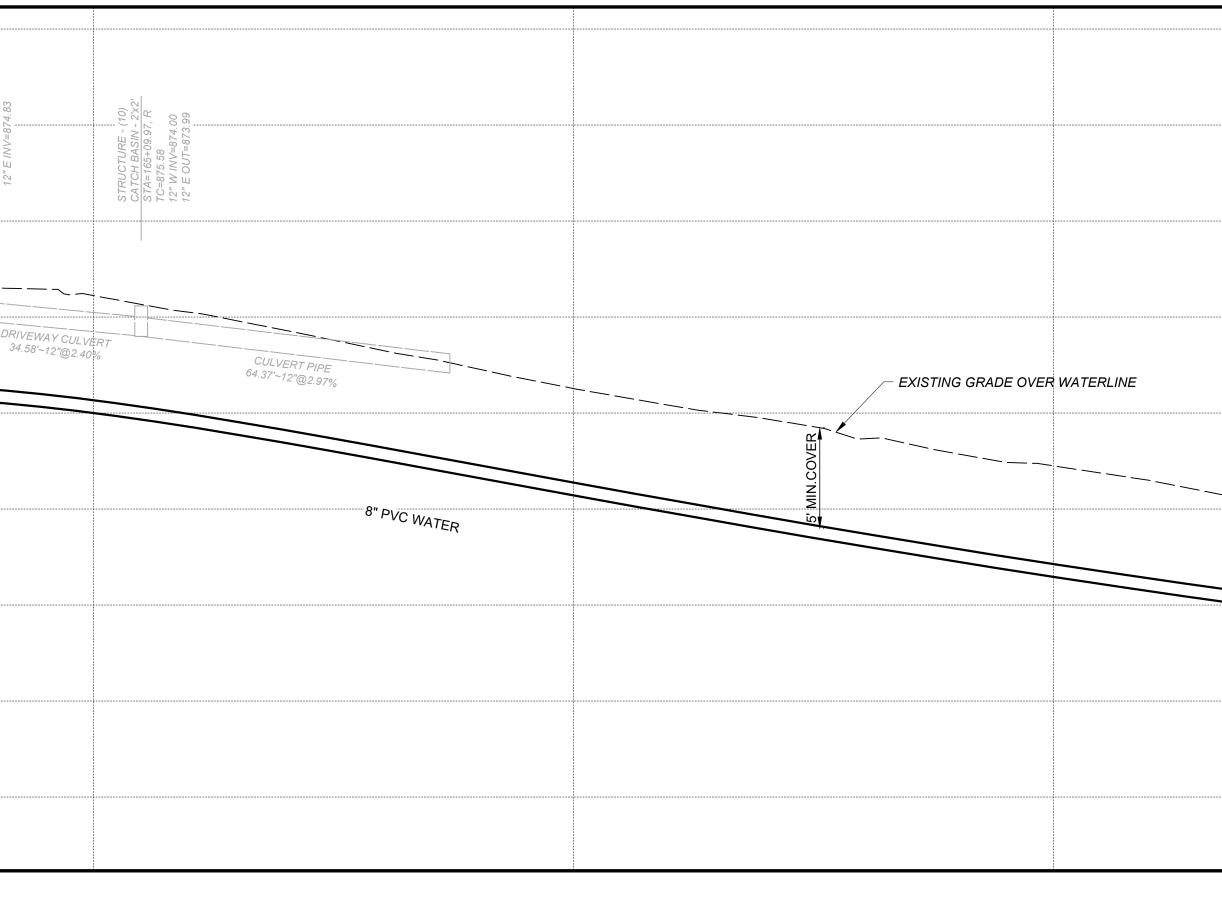
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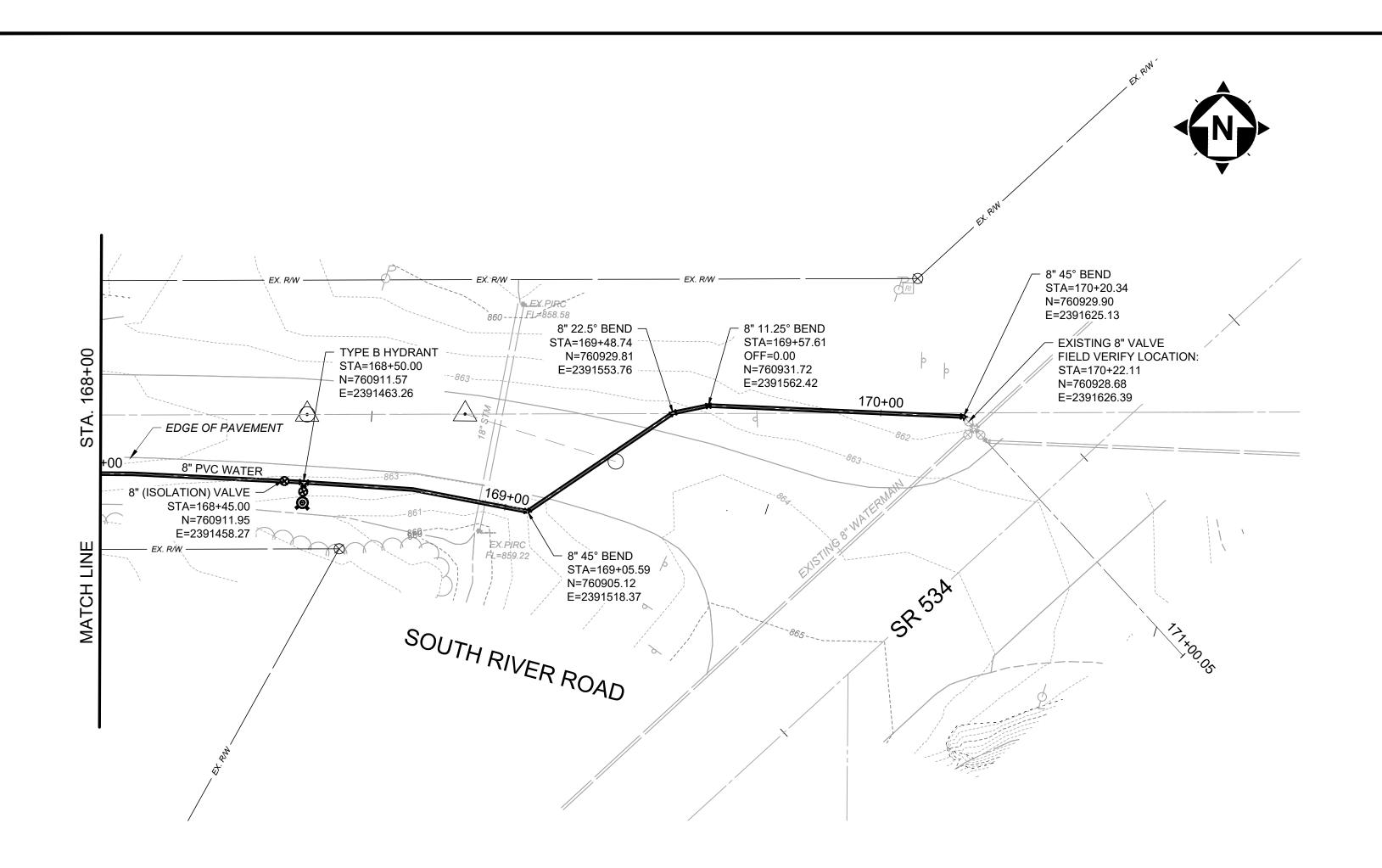
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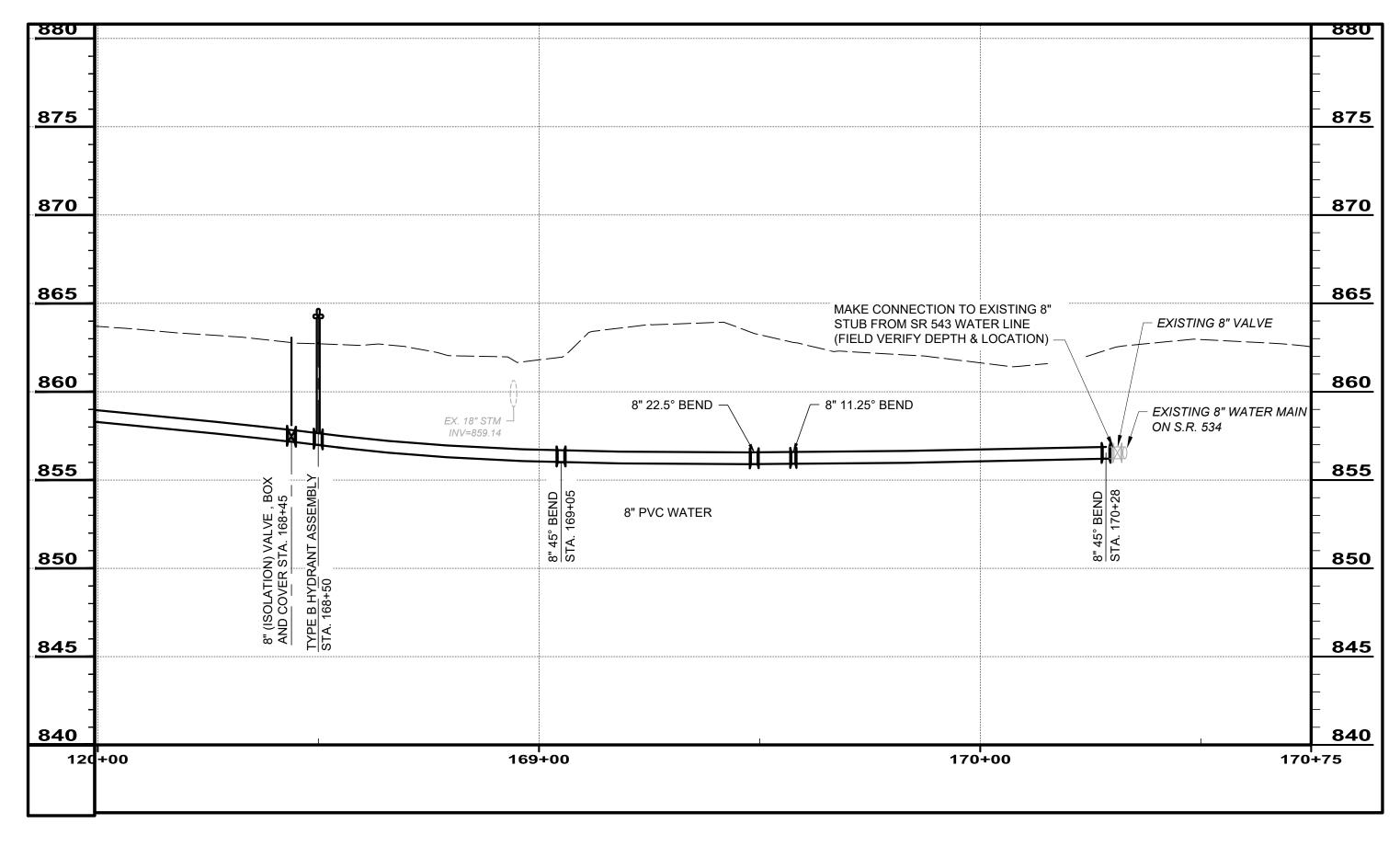
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PROJECT NO:	ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES SOUTH RIVER ROAD WATERLINE EXTENSION PROJECT ASHTABULA COUNTY HARPERSFIELD TOWNSHIP, OHIO PLAN AND PROFILES - 01 SERIES	ISSUED FOR: EPA REVIEW DATE: 02/17/2023 DESIGNED BY: RLM DRAWN BY: RLM	Q I	REVISION	DATE	your trusted advisor consultants engineers architects	GEORGIA CONWAY BR CONWAY E-85401 CONWAY CONVAL
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RIZ. 1" = 20' RT. 1" = 5'

	ERVICES NN PROJECT VSHIP, OHIO	ISSUED FOR: EPA REVIEW DATE: 02/17/2023 DESIGNED BY: RLM	2 3 3 3 3	REVISION	DATE	your trusted advisor consultants	→ engineers architects	GEORGIA CONWAY E-85401
စ္စ	PLAN AND PROFILES - 01 SERIES	DRAWN BY: RLM	M,				planners	E
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