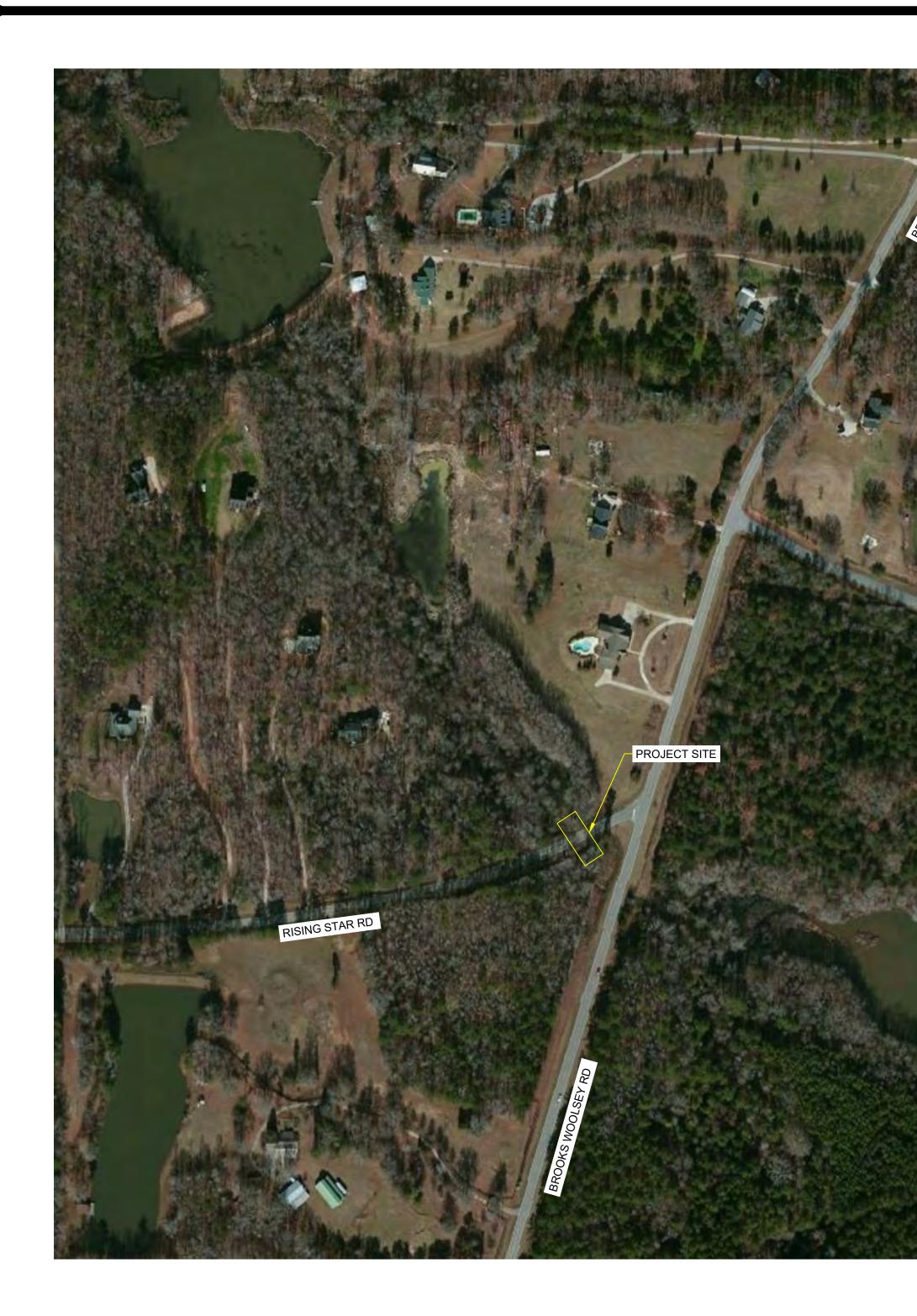
FAYETTE COUNTY **RISING STAR CULVERT REPLACEMENT PROJECT** PROJECT NUMBER 6509C



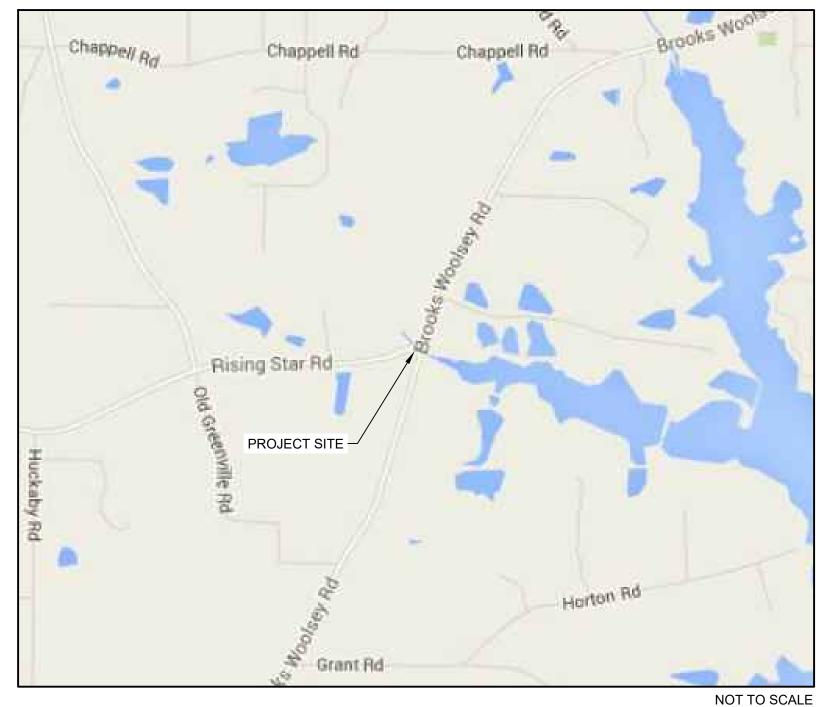
1899 POWERS FERRY ROAD SE, SUITE 400 ATLANTA, GA 30339 TEL: (770) 850-0949 FAX: (770) 850-0950

BURCH LAKE RD

	INDEX OF DRAWINGS
Sheet No.	Title
	GENERAL
G-001	COVER SHEET AND DRAWING INDEX
G-002	LEGEND AND ABBREVIATIONS
G-003	GENERAL NOTES
	CIVIL
C-101	EXISTING CONDITIONS
C-102	DEMOLITION PLAN
C-103	SITE PLAN
C-104	GRADING PLAN AND STORM PROFILE
C-105	EROSION CONTROL PLAN
C-501	CONSTRUCTION DETAILS
C-502	CONSTRUCTION DETAILS
C-503	CONSTRUCTION DETAILS
C-504	CONSTRUCTION DETAILS
C-505	EROSION CONTROL DETAILS
C-506	EROSION CONTROL CHECKLIST

PROJECT DESCRIPTION / NOTES: REFERENCE DATUM: NAD83 GEORGIA STATE PLANE, WEST ZONE, US FOOT

ISSUED:







www.tetratech.com

PROJECT LOCATION: 121 RISING STAR RD FAYETTEVILLE, GA 30215

CLIENT INFORMATION:

Tt PROJECT No.: 200-01297-16022

CLIENT PROJECT No.:

ISSUED FOR CONSTRUCTION - 5/26/2017

VICINITY MAP:

LIST OF STANDARD ABBREVIATIONS

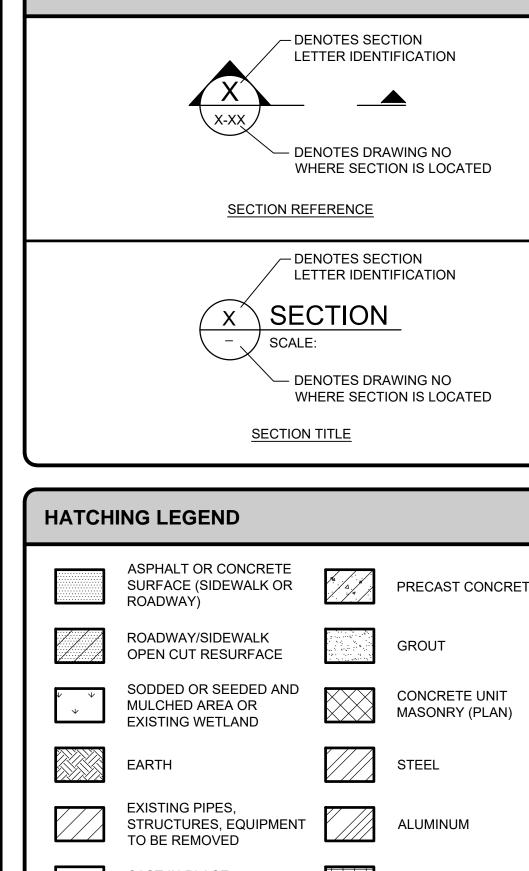
AAP ALARM ANNUNCIATOR PANEL AARV AUTOMATIC AIR RELEASE VALVE AAV AUTOMATIC AIR VENT AB ANCHOR BOLT ABAN ABANDON(ED) ABRSV ABRASIVE ABS ACRYLONITRILE BUTADIENE STYRENE ABV ABOVE ALTERNATING CURRENT AC ACCMP ASPHALT-COATED CORRUGATED METAL PIPE ACP ASBESTOS CEMENT PIPE ADDM ADDENDUM ADH ADHESIVE AFF ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AFG ABOVE FINISHED SLAB AFS AHD AHEAD AL ALUMINUM ALT ALTERNATE AMP AMPERE AMT AMOUNT APRX APPROXIMATE(LY) ARCH ARCHITECT(URAL) AS ALUM SOLUTION ASPH ASPHALT ASSY ASSEMBLY AVE AVENUE A/C AIR CONDITIONING A/VV AIR/VACUUM AIR VALVE BAF BAFFLE BCV BALL CHECK VALVE BLIND FLANGE BF BUTTERFLY VALVE BFV BHP BRAKE HORSEPOWER BI BLACK IRON BITUM BITUMINOUS OR BITUMASTIC B/L BASELINE BLDG BUILDING BLK BLOCK BM BENCH MARK BOC BACK OF CURB BOT BOTTOM BP BASE PLATE BRG BSP BEARING BLACK STEEL PIPE BV BALL VALVE BW BOTH WAYS BWW BACKWASH WATER <u>С</u> САР CAPACITY CA COMPRESSED AIR COMBINATION AIR VALVE CAV CB CATCH BASIN CHLORINE CONTACT CHAMBER CCC CHLORINATED EFFLUENT CE CFM CUBIC FEET PER MINUTE CFS CUBIC FEET PER SECOND CV CHECK VALVE CI CAST IRON CIP CAST IRON PIPE CISP CAST IRON SOIL PIPE CJ CONSTRUCTION JOINT CKT CIRCUIT C/L CENTER LINE CL2 CHLORINE GAS CLF CHAIN LINK FENCE CLR CLEAR OR CLEARANCE CLVT CULVERT CORRUGATED METAL PIPE CMP CMPA CORRUGATED METAL PIPE ARCH CMU CONCRETE MASONRY UNIT CND CONDUIT CNR CORNER CO CLEAN OUT CO2 CARBON DIOXIDE COAG COAGULANT COL COLUMN COM COMMON CONC CONCRETE CONN CONNECTION CONSTR CONSTRUCT(ION) CONT CONTINUOUS CONTR CONTRACT(OR) COORD COORDINATE CO COMPANY CP CONCRETE PIPE CPA CONCRETE PIPE ARCH CPLG COUPLING CPVC CHLORINATED POLYVINYL CHLORIDE CR CONCENTRIC REDUCER CHLORINE SOLUTION CS CSG CASING CTV CABLE TELEVISION CY CUBIC YARD CYL C&G CYLINDER CURB AND GUTTER C/C CENTER TO CENTER DAT DATUM DBL DOUBLE DC DIRECT CURRENT DEMO DEMOLITION DEPT DEPARTMENT DESC DESCRIPTION DET DETAIL DF DIESEL FUEL DUCTILE IRON DI DIA DIAMETER DIFF DIFFUSER DIM DIMENSION DIP DUCTILE IRON PIPE DISCH DISCHARGE DIR DMH DIRECTION DROP MANHOLE DN DOWN DR DRAIN DIAPHRAGM VALVE DV DRIVEWAY DW DWG DRAWING DRAIN, WASTE, AND VENT DWV

E E EA ECC EF EFF E/L EL	EAST EACH ECCENTRIC EACH FACE EFFLUENT EASEMENT LINE ELEVATION	LEN LB LF LS LSS LVR LWL
ELAST ELEC EMER EMC ENGR EP EPDM EPRF EQUIP ER ESTM EST EST EW EXC EXP EXST	ELASTOMERIC ELECTRICAL EMERGENCY ENCASE(MENT) ENGINEER EDGE OF PAVEMENT ETHYLENE PROPYLENE DIENE MONOMER EXPLOSION PROOF	M MAINT MAN MAS MATL MAX MCC ME MECH MEG MFR MG MFR MGD MH MIN MISC MJ ML MO
F FAB FCA FB FCV FD FDN FE FHY FIG FIN	FABRICATE(D) FLANGED COUPLING ADAPTER FLAT BAR FLOW-CONTROL VALVE FLOOR DRAIN FOUNDATION FILTER(ED) EFFLUENT FIRE HYDRANT FIGURE FINISH(ED)	MON MPH MS MSP MTD MV MW MWL MWP
FIN FLR FIN GR FL FLG FLL FLTR FM FPM FPS FRP	FINISH FLÓOR FINISH GRADE FLUORIDE FLANGE(D) FLOW LINE FILTER FORCE MAIN FEET PER MINUTE FEET PER SECOND FIBERGLASS REINFORCED PLASTIC	N NaOCI NE NIC NO NOM NPF NPT
FT FUT FV FW FWP F/F	FOOT OR FEET FUTURE FOOT VALVE FINISHED WATER FACTORY WIRED PANEL FACE TO FACE	NRS NTS NW N/A <u>O</u> O2
G GA GALV GIP GJ GND GPD GPH GPM GPS GR	GAUGE GALLON(S) GALVANIZED GALVANIZED IRON PIPE GROOVE JOINT GROUND GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE GALLONS PER SECOND GRADE	OC OD OF OH OHW OPP OPT OR OSY O&M
GRTG GS GSP GSR GST GT GV	GRATING GALVANIZED STEEL GALVANIZED STEEL PIPE GROUND STORAGE RESERVOIR GROUND STORAGE TANK GROUT GATE VALVE	P PA PC PCM PE PG
H HB HDPE HDR HFA HGR HGT HNDRL HOA HORIZ HP HPA HR HVAC HWL HWY HZ	HOSE BIBB HEAVY-DUTY HIGH-DENSITY POLYETHYLENE HYDRAULIC HYDROFLUOSILICIC ACID HANGER HEIGHT HAND RAIL HAND-OFF-AUTO HORIZONTAL HORSEPOWER HIGH PRESSURE AIR HOUR HEATING, VENTILATION, AND AIR CONDITIONING HIGH WATER LEVEL HIGHWAY HERTZ	PI PL P/L POB POJ POL PP PPD PREFA PRESS PRV PRW PSF PSI PSIA PSIG
I ID IN INF INT INTR	INSIDE DIAMETER INCH(ES) INFLUENT INTERSECTION INTERIOR	PT PV PVC PVMT PW PWR
INV IP IPS IR	INVERT IRON PIPE INTERNATIONAL PIPE STANDARD INTERNAL RECYCLE	Q Q QTY R
IW JB JT	IRRIGATION WATER JUNCTION BOX JOINT	RAD RAS RC RCB RCP RCPA
K K KPL KV KVA KW KWH	KIP (1,000 LB) KICK PLATE KILOVOLT KILOVOLT-AMPERE KILOWATT KILOWATT-HOUR	RD RDCR REBAR REF REINF REM REQ'D
L L LAB LAM LATL LAV	LEFT LABORATORY LAMINATE OR LAMINATION LATERAL LAVATORY	RF RJ RM RPBP RPM

LEN	LENGTH	RR	RAILROAD
LB	POUND(S)	RT	RIGHT
LF	LINEAR FEET	RVT	RIVETED
LP	LIGHT POLE	RW	RAW WATER
LS LSS LVR	LIME SLURRY LIME STABILIZED SLUDGE LOUVER	RWW R/W	RAW WASTEWATER RIGHT-OF-WAY
LVR LWL	LOUVER LOW WATER LEVEL	<u>s</u>	
M	METER	S SA SAN	SOUTH SAMPLE LINE
M	METER	SCHED	SANITARY
MAINT	MAINTAIN OR MAINTENANCE		SCHEDULE
MAN	MANUAL(LY)	SD	STORM DRAIN
MAS	MASONRY	SE	SOUTHEAST
MATL	MATERIAL	SECT	SECONDARY EFFLUEN
MAX	MAXIMUM	SEFF	
MCC	MOTOR CONTROL CENTER	SF	SQUARE FOOT OR FEE
ME	MITERED END	SHT	SHEET(ED)(ING)
MECH	MECHANICAL	SIG	SIGNAL
MEG	MATCH EXISTING GRADE	SIM	SIMILAR
MFR	MANUFACTURE(R)	SL	SLUDGE
MG	MILLION GALLONS	SLV	SLEEVE
MGD	MILLION GALLONS PER DAY	SM	SHEET METAL
MH	MANHOLE	SOLN	SOLUTION
MI	MILE(S)	SP	
MIN	MINIMUM, MINUTE(S)	SPEC	
MISC	MISCELLANEOUS	SPRT	SUPPORT
MJ	MECHANICAL JOINT	SQ	SQUARE
ML	MIXED LIQUOR	SS	SANITARY SEWER
MO	MASONRY OPENING	SSE	SUBSTANDARD EFFLU
MON	MONUMENT	SST	STAINLESS STEEL
MPH	MILES PER HOUR	ST	STREET
MPT	MALE PIPE THREAD	STA	STATION
MS	MOTOR STARTER	STD	STANDARD
MSP	MOTOR STARTER PANEL	STK	STAKE
MTD	MOUNTED	STL	STEEL
MV	MOTORIZED VALVE	STR	
MW	MANWAY	STRUCT	
MWL	MEAN WATER LEVEL	SURF	SURFACE
MWP	MAXIMUM WORKING PRESSURE	SV	SOLENOID VALVE
N	NORTH	SVCE SVW	SERVICE SERVICE WATER
N	NORTH	SW	SOUTHWEST
NaOCl	SODIUM HYPOCHLORITE	SWD	SIDEWATER DEPTH
NE	NORTHEAST	SWSH	SURFACE WASH
NIC	NOT IN CONTRACT	SYM	SYMBOL
NO	NUMBER	SYMM	SYMMETRICAL
NOM	NOMINAL	S/W	SIDEWALK
NPF NPT	NATIONAL PIPE THREAD	<u>T</u>	
NPW	(THREAD)	TAN	TANGENT
	NON-POTABLE WATER	TB	TOP OF BEAM
NRS	NON-RISING SYSTEM	TBM	TEMPORARY BENCH M
NTS	NOT TO SCALE	TB-xx	TEST BORING-xx (e.g. 1
NW	NORTHWEST	TD	TRENCH DRAIN
N/A	NOT APPLICABLE	TDH	TOTAL DYNAMIC HEAD
<u>0</u>		TE	TOTALLY ENCLOSED
02		TEFC	TOTALLY ENCLOSED F
OC	OXYGEN ON CENTER	TEL	COOLED TELEPHONE
OD	OUTSIDE DIAMETER	TENV	TOTALLY ENCLOSED
ODP	OPEN DRIP PROOF		NON-VENTILATED
OF	OUTSIDE FACE	THD	THREAD(ED)
OH	OVER HEAD	THK	THICK(NESS)
OHW	OVER HEAD WIRE	TLM	TELEMETRY
OPP	OPPOSITE	TOB	TOP OF BANK
OPT	OPTIONAL	TOC	TOP OF CURB
OR	OFFICIAL RECORDS	TOS	TOE OF SLOPE
OSY	OUTSIDE SCREW AND YOKE	TOT	TOTAL
O&M	OPERATION AND MAINTENANCE	TP	TELEPHONE POLE
<u>P</u>		TS TV	THICKENED SLUDGE TELEVISION
PA	PROCESS AIR	TYP	TYPICAL
PC	POINT OF CURVE	T&B	TOP AND BOTTOM
PCM	PERMANENT CONTROL MONUMENT	<u>U</u>	
PE	PLAIN END		UNDERDRAIN
PG	PRESSURE GAGE		UNDERGROUND
PI	POINT OF INTERSECTION	ULT	ULTIMATE
PL	PLATE	UN	UNION
P/L	PROPERTY LINE	UON	UNLESS OTHERWISE N
PNV	PINCH VALVE	UGE	UNDERGROUND ELEC
POB	POINT OF BEGINNING	UTC	UNDERGROUND TELEF
POJ	PUSH-ON JOINT		CABLE
POL PP	POLYMER POWER POLE	UTIL	UTILITY
PPD PPM	POUNDS PER DAY PARTS PER MILLION	$\frac{\mathbf{V}}{\nabla}$	VOLT(S)
PREFAB	PRESSURE	VAC	VACUUM
PRESS		VAR	VARIES
PRV	PRESSURE REDUCING VALVE	VC	VERTICAL CURVE
PRW	PROCESS WATER	VCP	VITRIFIED CLAY PIPE
PSF	POUNDS PER SQUARE FOOT	VEL	VELOCITY
PSI	POUNDS PER SQUARE INCH	VERT	VERTICAL
PSIA	POUNDS PER SQUARE INCH ABSOLUTE	VFD VOL	VARIABLE FREQUENC
PSIG	POUNDS PER SQUARE INCH GAGE	W	
PT	POINT OF TANGENCY	W	WATT, WEST
PV	PLUG VALVE	WAS	WASTE ACTIVATED SL
PVC	POLYVINYL CHLORIDE	WCO	WALL CLEAN OUT
PVMT	PAVEMENT	WF	WIDE FLANGE
PW	POTABLE WATER	WH	WALL HYDRANT
PWR	POWER	WL	WATER LINE
Q	51.011	WM	WATER MAIN
Q		WP	WATER PROOF(ING), V
Q	FLOW	WPR	POINT
QTY	QUANTITY		WORKING PRESSURE
R	DADING	WS WSP	WATER SURFACE WELDED STEEL PIPE
RAD	RADIUS	WT	WEIGHT
RAS	RETURN ACTIVATED SLUDGE	WTP	WATER TREATMENT P
RC	REINFORCED CONCRETE	WW	WASH WATER
RCB	REINFORCED CONCRETE BOX	WWF	WELDED WIRE FABRIC
RCP	REINFORCED CONCRETE PIPE	WWM	WELDED WIRE MESH
RCPA	REINFORCED CONCRETE PIPE	WWTP	WASTEWATER TREAT
RD	ARCH ROAD	W/	PLANT WITH
RDCR REBAR	REDUCER REINFORCING STEEL	W/O	WITHOUT
REF	REFERENCE	<u>X</u>	TRANSFER
REINF	REINFORCE(D)(ING)(MENT)	XFER	
REM	REMOVE(ABLE)	Y	
REQ'D	REQUIRED	VD	
RF RJ	RAISED FACE RESTRAINED JOINT	YD YH VD	YARD(S) YARD HYDRANT
RM RPBP	ROOM REDUCED PRESSURE	YR	YEAR(S) YR
RPM	BACKFLOW PREVENTER REVOLUTIONS PER MINUTE		

PIPING LEGE		FLAI	NGED			MECHAN	ICAL JOINT			GROO	/E JOINT			SOLVE	ENT WELD		
FITTING/ APPURTENANCE	SINGL	E-LINE		E-LINE	SING	LE-LINE	1	LE-LINE	SINGL	E-LINE	DOUBL	E-LINE	SINGL	_E-LINE	1	LE-LINE	F
	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	
BEND						<u></u>				→			+	+			
TEE						┝┷╟							<u>+</u>				
WYE				₽ ₽ ₽₽				₽ ੑ <u>, , , , , , , , , , , , , , , , , , , </u>		+		E				e - B	
REDUCER				₽				₽								- <u>E</u> -)=>	là
CAP/ BLIND FLANGE				₽}	N/A	N/A	N/A	N/A				-=				- E }-	(*) (*)
PLUG	N/A	N/A	N/A	N/A	(`	(₽	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	* DRUT
BUTTERFLY VALVE) ı (₽ ₽ ₽₩ ₽ ₽					+				GS CER
BALL VALVE				€	N/A	N/A	N/A	N/A		-1 ×1-		₽₽₽₽	-181-	-1831-			
CHECK VALVE				€	N/A	N/A	N/A	N/A									
GATE VALVE				₽₽₩₽₽				₽₩₽				₽₩₽					
PLUG VALVE				₽₽₩₽₽				₽₽₩₽									
AUTOMATIC CONTROL VALVE				€	N/A	N/A	N/A	N/A		- F - F		₽₽₽₽₽₽₽				€	
			m m														
PINCH VALVE				₽₽₩₽₽	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		-%-		-	
PINCH VALVE							N/A	S		N/A	N/A	N/A				-EXC-	CH BY
				INE AY LINE (R-O-W	RE			S DENOTES LETTER ID	SECTION		N/A	N/A			ENOTES DETAIL ENTIFICATION		
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SLUDGE



Sheet

PROJECT INFORMATION:	GENER
 THE PROJECT SHALL CONSIST OF THE DEMOLITION OF THE EXISTING CMP CULVERTS UNDER RISING STAR ROAD AND THE INSTALLATION OF 66 LINEAR FEET OF DOUBLE 9'X7' BOX CULVERTS ALONG WITH THE RELOCATION OF THE EXISTING UTILITIES IN THE AREA. 	6. THE BES
2. THE ORDER OF MAJOR LAND DISTURBING ACTIVITIES IS INDICATED IN THE ACTIVITY SCHEDULE LOCATED ON SHEET C-505.	RES RES THE
3. THE DISTURBED ACREAGE FOR THE PROJECT IS 0.60 ACRES.	UND
4. THE CULVERT REPLACEMENT PROJECT LOCATION (BEGINNING AND END) IS: 33.3341°N 84.4430°W	ASS IT IS CON COM
FAYETTE COUNTY WATER SYSTEM NOTES:	7. THE
1. FAYETTE COUNTY WATER SYSTEM SPECIFICATIONS AND DETAILS SHALL GOVERN ALL WATER MAIN CONSTRUCTION.	ENG
 ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH FAYETTE COUNTY WATER SYSTEM AND AWWA STANDARDS AND SPECIFICATIONS. 	8. THE LANI PAV
 DUCTILE IRON PIPE (D.I.P.) SHALL BE MINIMUM PRESSURE CLASS 300 CEMENT MORTAR LINED, PER ANSI C151/A21.51. ALL FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON PER ANSI A21.10 OR A21.53. ALL SERVICE PIPING SHALL BE COPPER. 	9. THE HOU
4. PROVIDE THRUST RESTRAINT (THRUST BLOCKS OR RESTRAINED JOINTS) AT ALL BENDS, TEES, CROSSES AND END OF LINES. (EOL) SIDE FORMS SHALL BE USED TO PREVENT ENCASEMENT OF BOLTS. SERVICE TAPS SHALL NOT BE LOCATED BENEATH PAVEMENT.	ENG WILL
5. MAINTAIN 24" MINIMUM CLEARANCE BETWEEN WATERLINE AND OTHER STRUCTURES.	10. ALL THE
6. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4' OVER ALL WATER LINES.	MON
7. CONTRACTOR SHALL FLAG WATER LINE AND SERVICE LOCATIONS TO PREVENT DAMAGE BY OTHER UTILITY CONTRACTORS.	11. THE
8. PROPER COMPACTION IS REQUIRED THROUGHOUT THE PROJECT. (95% PERVIOUS, 98% IMPERVIOUS)	THE ORIO
9. UNSUITABLE SOIL MATERIALS SHALL BE REPLACED WITH SUITABLE MATERIALS.	12. THE
10.NEW WATER LINE SHALL BE PRESSURE TESTED FOR 2 HOURS AT 200 P.S.I. UNACCEPTABLE LEAKAGE SHALL BE REPAIRED AND WATER LINE SHALL BE RETESTED PRIOR TO ACCEPTANCE BY FAYETTE COUNTY WATER SYSTEM. MAIN MUST BE DISINFECTED PRIOR TO BEING PLACED IN SERVICE.	PHA REC 13. TOP
11. TOP OF CURBS SHALL BE PERMANENTLY MARKED AND PAINTED BLUE AT MAIN AND SERVICE CROSSINGS, AS WELL AS, VALVE AND METER LOCATIONS.	ASS 14. IT IS
12. WATERLINE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, INCLUDING SIGNAGE AND FLAGMEN, WHILE WORKING WITHIN THE RIGHT OF WAY OF ANY EXISTING ROAD.	TO [15. CLE
13. WATERLINE CONTRACTOR PERFORMING ANY WORK WITHIN AN EXISTING RIGHT OF WAY MUST COMPLY WITH THE MUTCD 2003 EDITION WITH REVISIONS NUMBER 1 AND 2 INCORPORATED, DATED DECEMBER 2007. FLAGGERS MUST POSSESS A CURRENT CERTIFICATION CARD. DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST BY ANY COUNTY EMPLOYEE.	ALL 16. PRIC ADD
14. WATER TO BE PROVIDED BY FAYETTE COUNTY WATER SYSTEM.	PEA AND
15. ALL TIE-INS SHALL BE COORDINATED WITH FAYETTE COUNTY WATER SYSTEM. EXISTING VALVES SHALL BE OPERATED BY COUNTY PERSONNEL ONLY.	EXP TO DUR
16. CONTRACTOR MUST NOTIFY FAYETTE COUNTY WATER SYSTEM 24 HOURS PRIOR TO BEGINNING CONSTRUCTION OR REQUESTING INSPECTIONS. ALL WORK MUST BE INSPECTED PRIOR TO BACKFILL AND COMPACTION. ANY WORK COVERED PRIOR TO INSPECTION IS SUBJECT TO REJECTION UNTIL IT HAS BEEN EXPOSED AND INSPECTED BY FAYETTE COUNTY WATER PERSONNEL.	MAT DEMOL
17.NO TRENCHES OR PITS ARE TO BE LEFT OPEN OVERNIGHT OR THROUGH A WEEKEND. IF CREW VACATES JOB SITE DURING DAYTIME HOURS, A PROPERLY CONSTRUCTED, HIGHLY VISIBLE BARRICADE MUST BE ERECTED.	1. THE
18. WHILE THE EXCAVATION IS OPEN, UNDERGROUND INSTALLATIONS SHALL BE PROTECTED, SUPPORTED OR REMOVED AS NECESSARY TO SAFEGUARD EMPLOYEES.	2. THE
19. MEANS OF EGRESS FROM TRENCH EXCAVATIONS. A STAIRWAY, LADDER, RAMP OR OTHER SAFE MEANS OF EGRESS SHALL BE LOCATED IN TRENCH EXCAVATIONS THAT ARE 4 FEET OR MORE IN DEPTH SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL FOR EMPLOYEES.	TELI TO F
20.CONTACT MATT BERGEN AT THE FAYETTE COUNTY WATER SYSTEM TO SCHEDULE A PRECONSTRUCTION MEETING PRIOR TO BEGINNING ANY WORK. PHONE: 770-320-6020 FAX: 770-719-5576	3. THE REM OWN
21.ALL CONTRACTORS MUST HAVE A CERTIFIED COMPETENT PERSON ON SITE WHILE WORK IS BEING PERFORMED. DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST BY ANY COUNTY EMPLOYEE.	4. THE RET
22.ALL CONTRACTORS PERFORMING ANY LAND DISTURBING ACTIVITY SHALL HAVE ATTENDED THE GSWCC SUB CONTRACTOR AWARENESS COURSE WHEN WORKING IN A COMMON DEVELOPMENT WHERE THE PRIMARY PERMITTEE HAS OBTAINED A LEVEL 1A	5. THE TRE
CERTIFICATION. THE PRIMARY PERMITTEE IS REQUIRED TO HAVE A LEVEL 1A CERTIFIED REPRESENTATIVE ON SITE AT ALL TIMES. DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST BY ANY COUNTY EMPLOYEE.	6. THE OF I
23.ANY CONTRACTOR PERFORMING ANY LAND DISTURBING ACTIVITY UNDER CONTRACT FOR FAYETTE COUNTY WATER SYSTEM SHALL BE CONSIDERED THE SECONDARY PERMITTEE FOR EACH PROJECT. THE CONTRACTOR SHALL BE REQUIRED TO HAVE A GSWCC LEVEL 1A CERTIFIED REPRESENTATIVE ON SITE AT ALL TIMES. DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST BY ANY COUNTY EMPLOYEE.	7. THE REM EDG
24.BEFORE RELEASE OF THE WATER LINES, 2 CERTIFIED AS - BUILTS (24 X 36) MUST BE SUBMITTED ALONG WITH 2 SIGNED FINAL PLATS OR FINAL SITE PLANS. ONE ELECTRONIC COPY OF EACH DOCUMENT SHOULD BE SENT TO THE INSPECTOR UPON ACCEPTANCE.	EARTH 1. COM AND
	2. ALL (TO N
GENERAL:	3. STAB
1. BENCHMARK FOR CONSTRUCTION HAS BEEN PROVIDED ON SHEET C-101.	4. ASPH
2. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE FAYETTE COUNTY. WHERE CONFLICTS OR OMISSIONS EXIST, THE FAYETTE COUNTY STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATION FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED	IS GR 5. ALL F
ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.	6. ALL (
 SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE EAVETTE COUNTY DEVELOPMENT REGULATIONS LATEST 	7. ALL BETT 8. THE
4. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE FAYETTE COUNTY DEVELOPMENT REGULATIONS, LATEST EDITION, UNLESS OTHERWISE WAIVED.	AND
5. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER	9. ALL F FOR

REGULATORY AUTHORITIES. ANY PENALTIES, STOP WORK ORDERS OR ADDITIONAL WORK RESULTING FROM THE CONTRACTOR

BEING IN VIOLATION OF THE REQUIREMENTS ABOVE, SHALL BE FULLY BORNE BY THE CONTRACTOR.

AL (CONTINUED):

LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE T INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO PONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S PONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF SE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ERGROUND UTILITIES, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH RFERE WITH THE PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FIRST. ANY FEES OCIATED WITH UTILITY RELOCATIONS SHALL BE BORNE IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY STANDARDS. REQUESTED UTILITY COMPANIES MOVE THEIR PARTICULAR UTILITIES. ANY DELAY OR INCONVENIENCE CAUSED TO THE TRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA IPENSATION WILL BE ALLOWED.

CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING TO BE HELD BETWEEN FAYETTE COUNTY, UTILITIES, INEER OF RECORD, AND CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.

SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING DSCAPE SPRINKLERS, SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES PRIOR TO THE CONSTRUCTION OF THE EMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.

CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND AT LEAST 48 IRS HOURS BEFORE REQUIRED INSPECTION ON EACH AND EVERY PHASE OF WORK. THE CONTRACTOR SHALL NOTIFY THE INEER A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY SCHEDULED TESTING. NO PRESSURE TESTING, OR FINAL TESTING BE ACCEPTED UNLESS WITNESSED BY THE ENGINEER'S REPRESENTATIVE.

CONTRACTORS, CITY REPRESENTATIVES, COUNTY REPRESENTATIVES, AND UTILITY COMPANIES ARE RESPONSIBLE FOR IR RESPECTIVE SURVEYING AND LAYOUT FROM BENCHMARK PROVIDED ON CONSTRUCTION PLANS. ANY SURVEY IUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED UPON COMPLETION OF THE WORK BY A REGISTERED D SURVEYOR.

CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY CONSTRUCTION ACTIVITIES FROM TAKING PLACE OUTSIDE OF LIMITS OF CONSTRUCTION SHOWN ON THE PLANS. ANY ON-SITE OR OFFSITE AREAS DISTURBED SHALL BE RESTORED TO GINAL CONDITION OR BETTER.

CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL SES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TWO (2) SETS OF RECORD DRAWINGS TO THE ENGINEER OF ORD WITHIN TWO (2) WEEKS AFTER CONSTRUCTION HAS BEEN COMPLETED ON EACH PHASE.

OGRAPHIC INFORMATION SHOWN ON THESE PLANS WERE TAKEN FROM SURVEY PROVIDED BY: ROCHESTER AND OCIATES, INC.

THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO N.T.P. CONSTRUCTION DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.

AR AREAS INDICATED SHALL BE COMPLETELY CLEAR OF ALL TIMBER, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE GROUND.

OR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT T AREAS, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, MATERIALS TO BE DISPOSED OF OFFSITE, ALL OF WHICH WILL AFFECT HIS PRICING. ANY DELAY, INCONVENIENCE, OR ENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED ING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL, AND THE CONTRACTOR MAY HAVE TO IMPORT ERIALS, AT NO EXTRA COST, FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.

ITION:

CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND LICENSES FOR PERFORMING THE DEMOLITION WORK AND SHALL NISH A COPY OF THESE ITEMS TO THE ENGINEER PRIOR TO COMMENCING THE WORK. THE CONTRACTOR SHALL COMPLY I THE REQUIREMENTS OF THE PERMITS.

CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR LOCAL AUTHORITIES FURNISHING GAS, WATER, ELECTRICAL, EPHONE, OR SEWER SERVICE SO THEY CAN REMOVE, RELOCATE, DISCONNECT, CAP OR PLUG THEIR EQUIPMENT IN ORDER FACILITATE DEMOLITION.

CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES, STRUCTURES, AND UTILITIES NOT MARKED FOR OVAL OR DEMOLITION AND SHALL PROMPTLY REPAIR ANY DAMAGE AS DIRECTED BY THE ENGINEER AT NO COST TO THE INFR.

CONTRACTOR SHALL REMOVE PAVING MARKED FOR DEMOLITION WHICH INCLUDES ALL ASPHALT, CONCRETE, BASE, AND AINING WALLS (INCLUDING THE FOOTERS).

CONTRACTOR SHALL REMOVE TREES MARKED FOR REMOVAL WHICH INCLUDES THE ROOTS ASSOCIATED WITH THE TREE. ES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN ACCORDANCE WITH THE FAYETTE COUNTY REGULATIONS.

CONTRACTOR SHALL REMOVE UNSALVAGEABLE MATERIALS AND YARD WASTE FROM THE SITE IMMEDIATELY AND DISPOSE N ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

CONTRACTOR SHALL SAW-CUT A SMOOTH STRAIGHT EDGE ON ANY PAVEMENT PROPOSED FOR DEMOLITION PRIOR TO ITS OVAL. PRIOR TO CONNECTING PROPOSED PAVEMENT TO EXISTING PAVEMENT, THE CONTRACTOR SHALL ENSURE THAT THE E OF THE EXISTING PAVEMENT IS STRAIGHT AND UNIFORM.

NORK, GRADING, STABILIZATION, PAVING AND DRAINAGE:

PACT ALL UTILITY TRENCHES WITHIN ROADWAYS TO 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180) TO 95% WITHIN OTHER AREAS.

RGANIC SOILS BELOW UTILITY TRENCHES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AND COMPACTED DIESS THAN 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180).

LIZED SUBGRADE TO MEET SPECIFIED REQUIREMENTS.

ALTIC CONCRETE TO GDOT STANDARD SPECIFICATION (LATEST EDITION) SECTION 916.1 AND FAYETTE COUNTY, WHICHEVER EATER.

AVEMENT MARKINGS SHALL BE THERMOPLASTIC.

CONCRETE FLUMES, WALKS, AND CURBS SHALL BE CONSTRUCTED WITH 3000 PSI CONCRETE.

ON-SITE AREAS DISTURBED BY THE CONSTRUCTION SHALL BE STABILIZED WITH SOD (SAME AS SURROUNDING AREA OR ER) OR APPROVED EQUAL. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION OF PERMANENT GRASSING.

REINFORCED CONCRETE PIPE SHALL BE CLASS III WITH WALL THICKNESS "B" CONFORMING TO ASTM C - 76 OR AWWA 302 - 74 GASKETS SHALL BE IN ACCORDANCE WITH ASTM C - 443 OR ASTM D - 412.

IPE CALL OUTS ARE MEASURED CENTER LINE TO CENTER LINE FOR MANHOLES AND INLETS AND FROM THE END OF THE PIPE //ITERED END SECTIONS.

10. ALL DEWATERING COSTS ASSOCIATED WITH THE INSTALLATION AND CONSTRUCTION OF THE UNDERGROUND UTILITIES; STORM WATER PIPES AND MANHOLES; SANITARY SEWER MAINS, FORCE MAINS, MANHOLES, AND LIFT STATIONS; AND STORM WATER MANAGEMENT SYSTEMS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION BID COSTS. THE CONTRACTOR SHALL SUBMIT FOR WATER USE PERMITS IF REQUIRED FOR DEWATERING ACTIVITIES.

EARTHWORK, GRADING, STABILIZATION,

11. ALL PIPES SHALL HAVE 3 FEET MINIMUM CON PROVIDE PROPER GRADE ELEVATIONS AND AL

- 12. THE CONTRACTOR MUST INSTALL AND MAINT GRADES, AS NOTED ON PLANS, AND AT ANY DISCHARGES TO ANY DOWNSTREAM WATER SHALL BE STAKED.
- 13. THE CONTRACTOR SHALL TAKE ALL MEASURE TO, THE INSTALLATION OF TURBIDITY BARRIER SUSPENDED SOLIDS INTO THE RECEIVING V BARRIERS MUST BE MAINTAINED AT ALL LOW STABILIZED. THE CONTRACTOR SHALL ALSO E

OTHER UTILITY INFORMATION:

- 1. THE CONTRACTOR SHALL NOTIFY UTILITY CO LOCATE THEIR FACILITIES IN THE FIELD FORT
- 2. DUCTILE IRON PIPE SHALL BE ENCASED IN CROSSING OF METALLIC GAS MAINS OR ANY AND WITHIN TEN FEET OF METALLIC GAS I INFLUENCE OF CATHODIC PROTECTION ANOT

SPILL CONTROL NOTES:

- 1. IN ADDITION TO THE GOOD HOUSEKEEPING THIS PLAN, THE FOLLOWING PRACTICES WILL
- a. MANUFACTURERS' RECOMMENDED METH MADE AWARE OF THE PROCEDURES AND
- b. ALL SPILLS WILL BE CLEANED UP IMMEDI,
- SPILLS OF TOXIC OR HAZARDOUS MAT AGENCY, REGARDLESS OF SIZE.
- d. THE SPILL PREVENTION PLAN WILL BI REOCCURRING AND HOW TO CLEAN UP IT, AND THE CLEANUP MEASURES WILL AND
- e. THE SITE SUPERINTENDENT RESPONSIE CLEANUP COORDINATOR.

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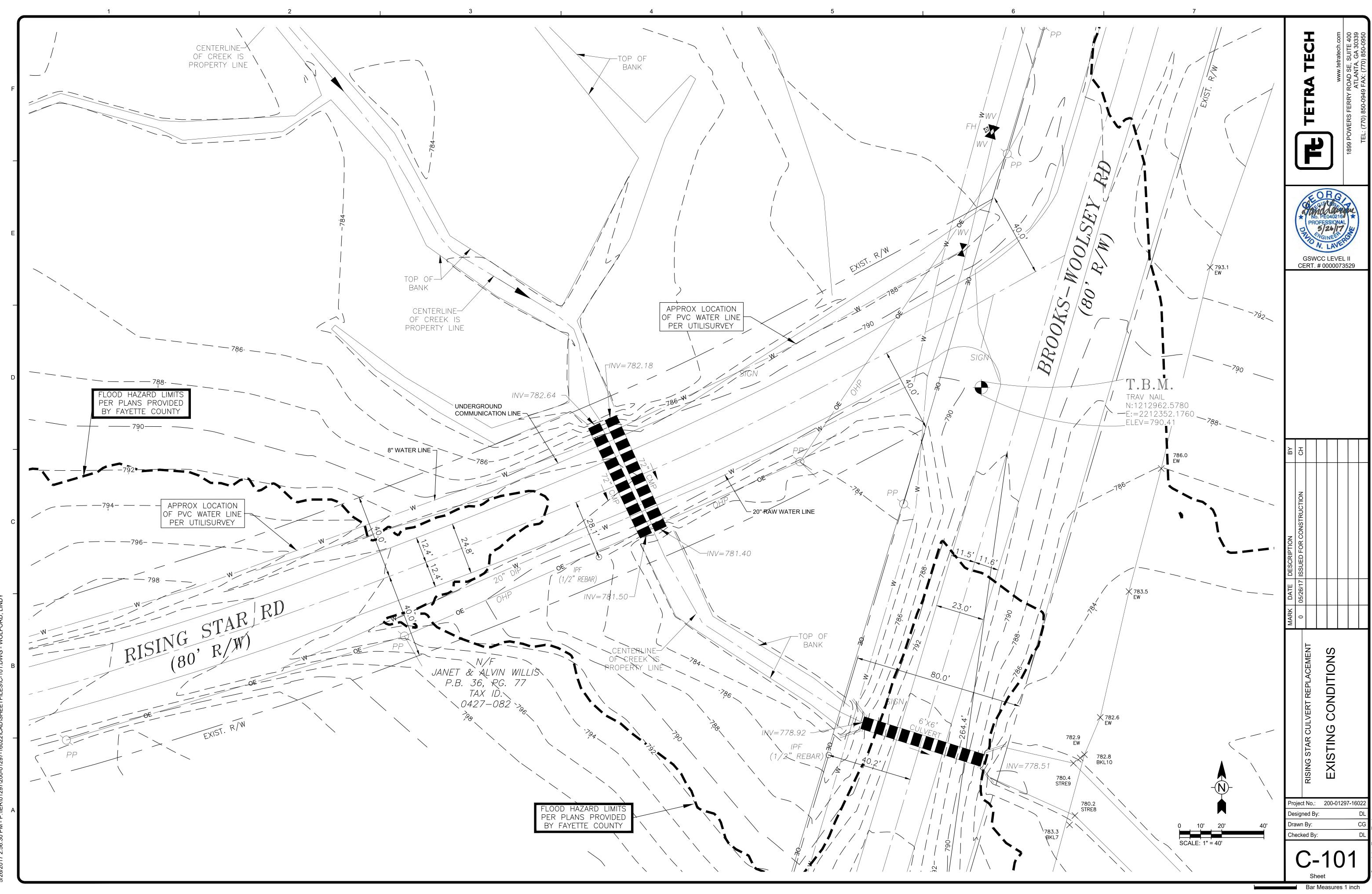
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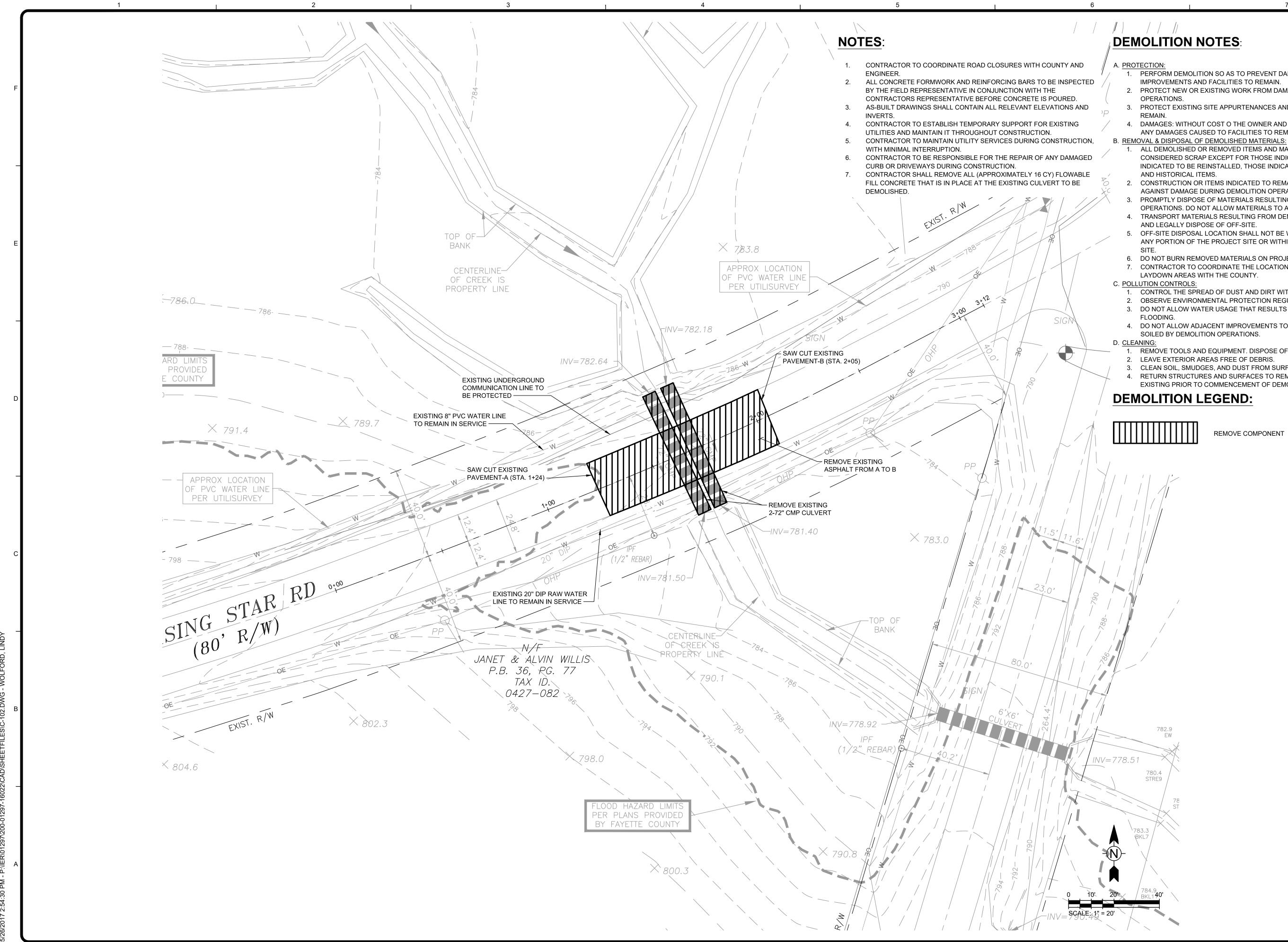
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PAVING AND DRAINAGE (CONTINUED):				4	V.IEllan SE, SU	NTA, G/ (770) 8
VER UNLESS OTHERWISE SPECIFIED IN PLANS, CONTRACTOR SHALL TAKE CARE TO LIGNMENTS.			4		ROAD	
TAIN GRASS OR SOD ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETED FINAL Y OTHER TIME AS NECESSARY TO PREVENT EROSION, SEDIMENTATION OR TURBID BODY, WETLAND, OR OFF-SITE PROPERTY. SODDING ON SLOPES 3:1 AND STEEPER			TETR		S FERRY I	(770) 850-0949
ES NECESSARY TO CONTROL TURBIDITY AND SEDIMENT INCLUDING, BUT NOT LIMITED IRS AND SILT FENCES AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY AND SEDIMENT OCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE BE RESPONSIBLE FOR REMOVING THE BARRIERS.	:		Ľ		WW 1899 POWERS FERRY ROAD	TEL: (77
OMPANIES WHICH MAY HAVE THEIR UTILITIES WITHIN THE CONSTRUCTION AREAS TO TY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION.		6	E	R		
N POLYETHYLENE TWENTY-FIVE (25) FEET ON EACH SIDE OF ANY PERPENDICULAR Y OTHER CATHODICALLY PROTECTED PIPELINE AND FOR LOCATIONS PARALLEL TO MAINS OR OTHER CATHODICALLY PROTECTED PIPE AND THROUGH THE AREA OF DE BED.		* DR	PROF	PE0402 ESSION	IG AL LANG	UX Y
AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS NOTES OF L BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:				C LEV		.9
HODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.						
IATELY AFTER DISCOVERY.						
TERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED						
ALSO BE INCLUDED. BLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND						
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DEMOLITION NOTES:

- 1. PERFORM DEMOLITION SO AS TO PREVENT DAMAGE TO ADJACENT IMPROVEMENTS AND FACILITIES TO REMAIN.
- 2. PROTECT NEW OR EXISTING WORK FROM DAMAGE DURING DEMOLITION OPERATIONS.
- 3. PROTECT EXISTING SITE APPURTENANCES AND LANDSCAPING TO
- 4. DAMAGES: WITHOUT COST O THE OWNER AND WITHOUT DELAY, REPAIR ANY DAMAGES CAUSED TO FACILITIES TO REMAIN.
- 1. ALL DEMOLISHED OR REMOVED ITEMS AND MATERIALS SHALL BE CONSIDERED SCRAP EXCEPT FOR THOSE INDICATED TO REMAIN, THOSE INDICATED TO BE REINSTALLED, THOSE INDICATED TO BE SALVAGED, AND HISTORICAL ITEMS.
- 2. CONSTRUCTION OR ITEMS INDICATED TO REMAIN SHALL BE PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
- PROMPTLY DISPOSE OF MATERIALS RESULTING FROM DEMOLITION OPERATIONS. DO NOT ALLOW MATERIALS TO ACCUMULATED ON SITE. 4. TRANSPORT MATERIALS RESULTING FROM DEMOLITION OPERATIONS
- AND LEGALLY DISPOSE OF OFF-SITE.
- OFF-SITE DISPOSAL LOCATION SHALL NOT BE WITHIN INE-HALF MILE OF ANY PORTION OF THE PROJECT SITE OR WITHIN SIGHT OF THE PROJECT
- 6. DO NOT BURN REMOVED MATERIALS ON PROJECT SITE.
- 7. CONTRACTOR TO COORDINATE THE LOCATION OF ANY MATERIAL LAYDOWN AREAS WITH THE COUNTY.

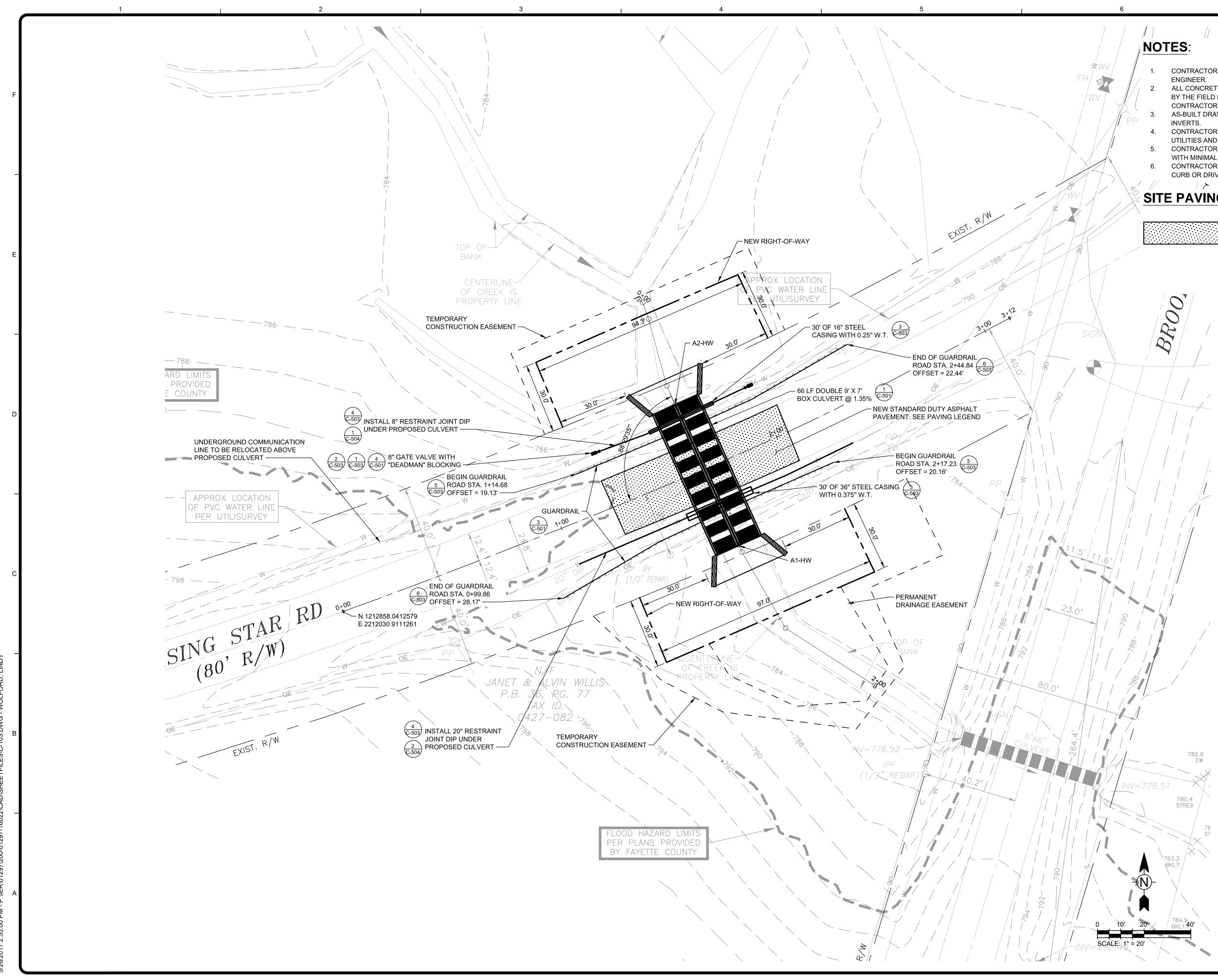
- 1. CONTROL THE SPREAD OF DUST AND DIRT WITH PRACTICAL MEANS. 2. OBSERVE ENVIRONMENTAL PROTECTION REGULATIONS.
- 3. DO NOT ALLOW WATER USAGE THAT RESULTS IN FREEZING OR
- 4. DO NOT ALLOW ADJACENT IMPROVEMENTS TO REMAIN O BECOME SOILED BY DEMOLITION OPERATIONS.
- REMOVE TOOLS AND EQUIPMENT. DISPOSE OF SCRAP.
- 2. LEAVE EXTERIOR AREAS FREE OF DEBRIS.
- 3. CLEAN SOIL, SMUDGES, AND DUST FROM SURFACES TO REMAIN. 4. RETURN STRUCTURES AND SURFACES TO REMAIN TO CONDITION EXISTING PRIOR TO COMMENCEMENT OF DEMOLITION.

DEMOLITION LEGEND:



REMOVE COMPONENT

)	www.tetratech.com		ATLANTA, GARANA TENNI NOAD 3C, 3011E 400 ATLANTA, GA 30339	TEL: (770) 850-0949 FAX: (770) 850-0950
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- CONTRACTOR TO COORDINATE ROAD CLOSURES WITH COUNTY AND
- ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY THE FIELD REPRESENTATIVE IN CONJUNCTION WITH THE
- CONTRACTORS REPRESENTATIVE BEFORE CONCRETE IS POURED. AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND
- CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
- 5. CONTRACTOR TO MAINTAIN UTILITY SERVICES DURING CONSTRUCTION, WITH MINIMAL INTERRUPTION.
- CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB OR DRIVEWAYS DURING CONSTRUCTION.

SITE PAVING LEGEND:

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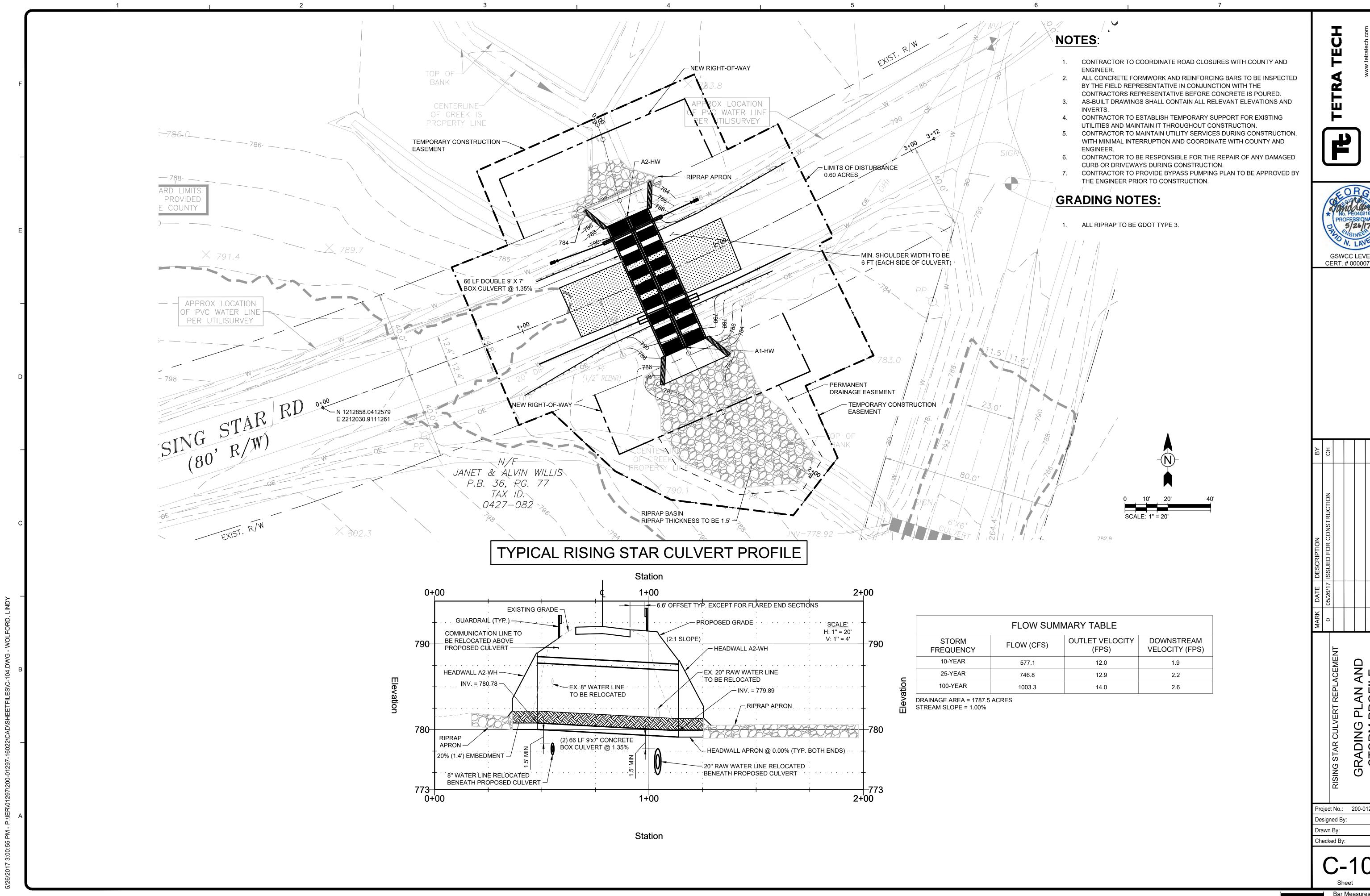
NEW STANDARD DUTY ASPHALT PAVEMENT: -1.5" 9.5mm SUPERPAVE ASPHALT TOPPING (165 LBS/SY).

-TACK COAT (0.35 GAL/SY) -8" GRADED AGGEGATE BASE COMPACTED TO 100% MAX DRY DENSITY.

-UPPER 12' OF SUBGRADE TO BE COMPACTED TO 98% OF MAX DRY DENSITY.

)	www.tetratecn.com		1000 FOWERS FERN ROAD 35, 301 E 400 ATLANTA, GA 30339	TEL: (770) 850-0949 FAX: (770) 850-0950
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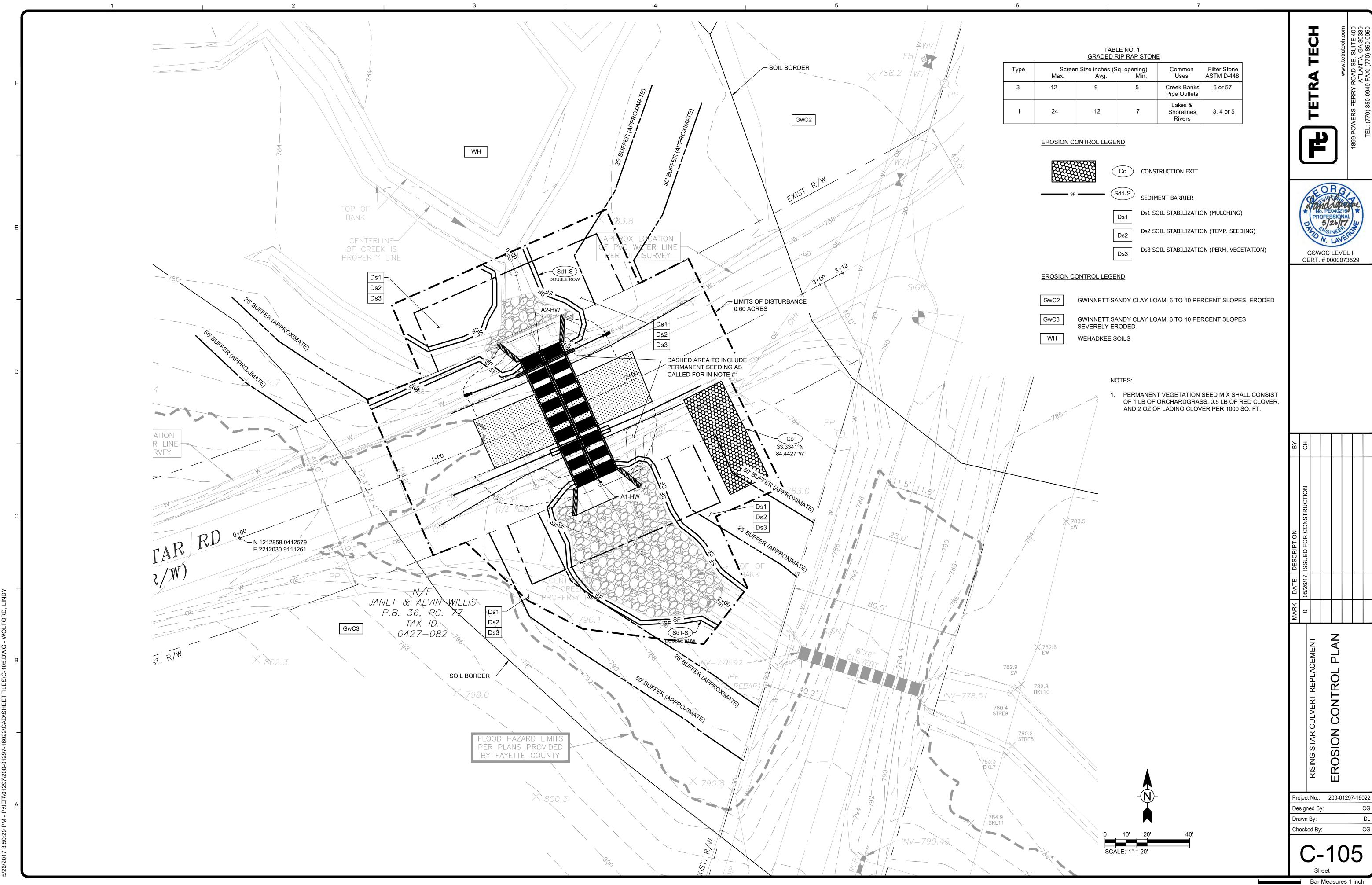
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N SUMMARY TABLE								
(CFS) OUTLET VELOCITY DOWNSTREAM (FPS) VELOCITY (FPS)								
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.8	12.9	2.2						
9.3	14.0	2.6						

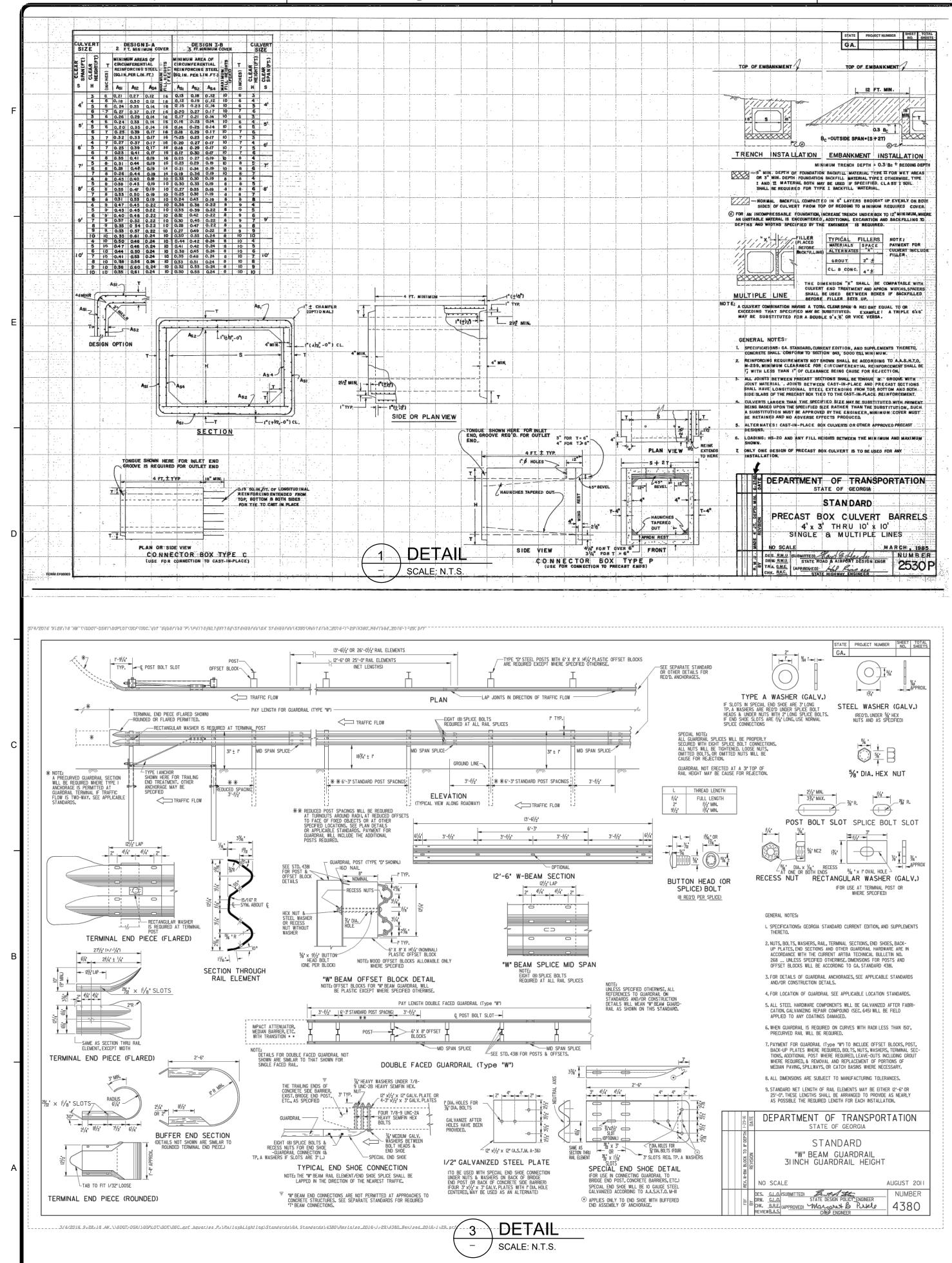
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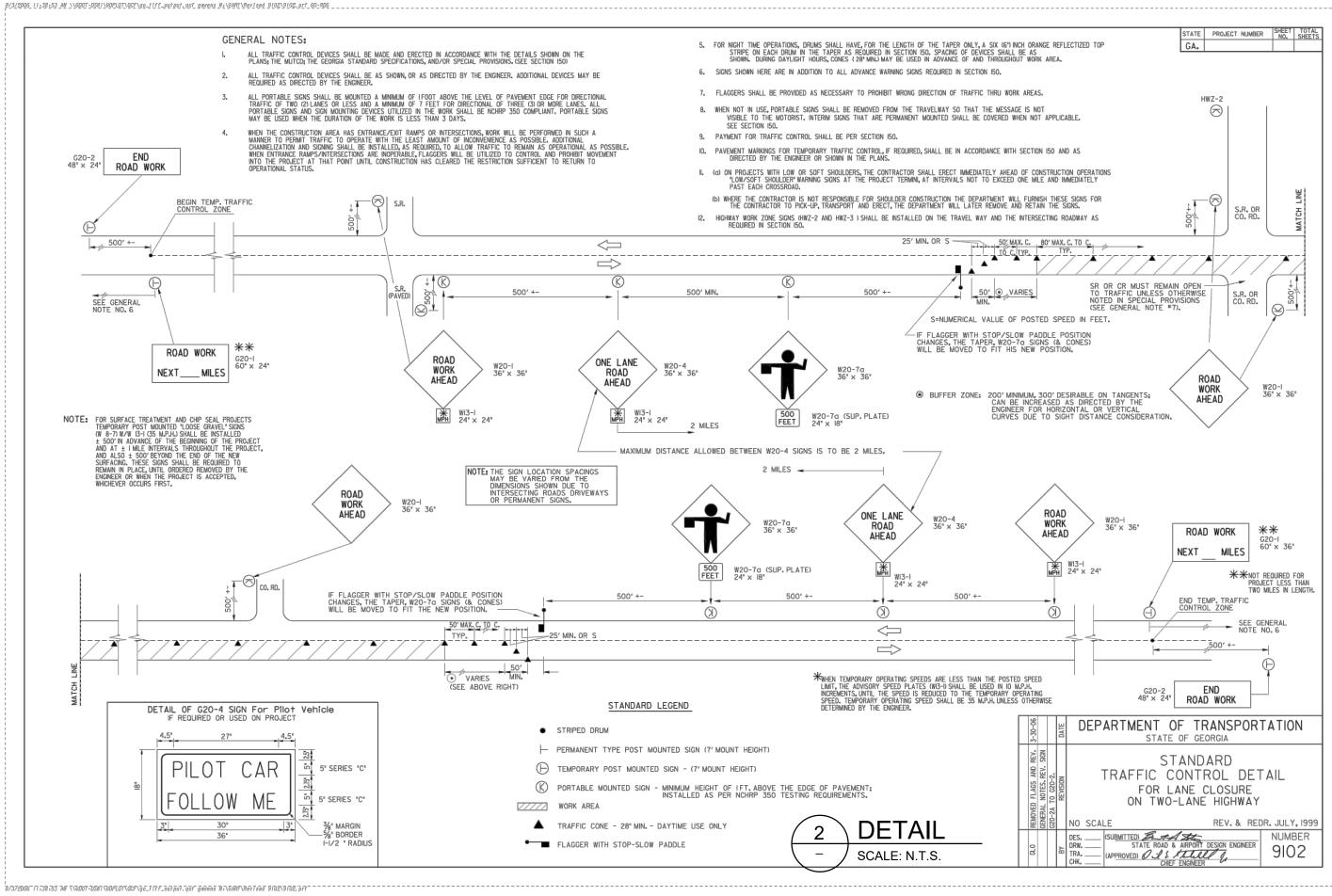


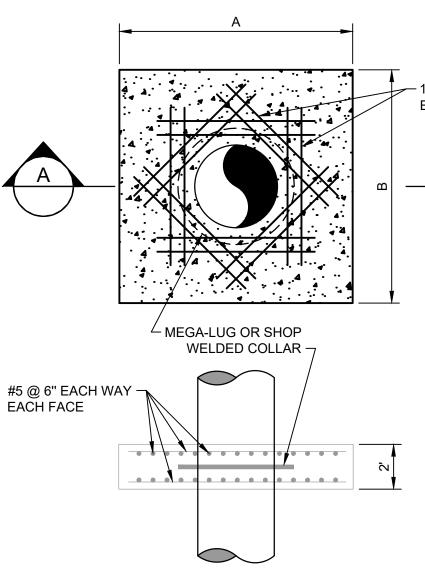
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NOTES:

- 1. DEADMAN SHALL BE CLASS "C" CONCRETE; "SACKCRETE" WILL NOT BE ALLOWED. 2. THE UTILITY LINE MUST BE LOWERED IN ORDER TO HAVE FOUR FEET (4') OF COVER AT THE BEND, TEE, REDUCER, OR PLUG AT ALL LOCATIONS WHERE
- THESE FITTINGS MAY BE UTILIZED. 3. FOR SOIL CONDITIONS LESS THAN 2000 P.S.F. BEARING PRESSURE OR PIPE PRESSURE OVER 150 P.S.I. SPECIAL THURST BLOCKS/RESTAINT MUST BE
- COMPUTED AND APPROVED. 4. CONCRETE SHALL BE POURED AGAINST UNDISTURBED SOIL. DISTURBED SOIL TO BE COMPACTED TO 95% OPTIMUM MOISTURE CONTENT.
- 5. MAINTAIN 2" CLEARANCE BETWEEN PIPE WALL AND REBAR.



SOIL PRE	ESSURE = 2	2000 PSF			
PIPE SIZE X	А	В			
6"	2'-0"	2'-0''			
8"	2'-6"	2'-6"			
10"	3'-6"	3'-6"			
12"	4'-0"	4'-0''			
14"	4'-6"	4'-6''			
16"	5'-0"	5'-0''			
18"	6'-0"	6'-0''			
20"	6'-6"	6'-6"			
24"	7'-6"	7'-6"			

LINE PRESSURE = 150 PSI

– 16 - #5 x (0 x 2) EACH SIDE OF COLLAR

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	-C	/ :		: 2						
asur	5(<u> </u>	CONSTRUCTION DETAILS]
es ´	C)129					/EL	
1 inc	1			97-16					II 529	1899 POWERS FERRY R
h		DL	DL CG)	TEL: (770) 850-0949

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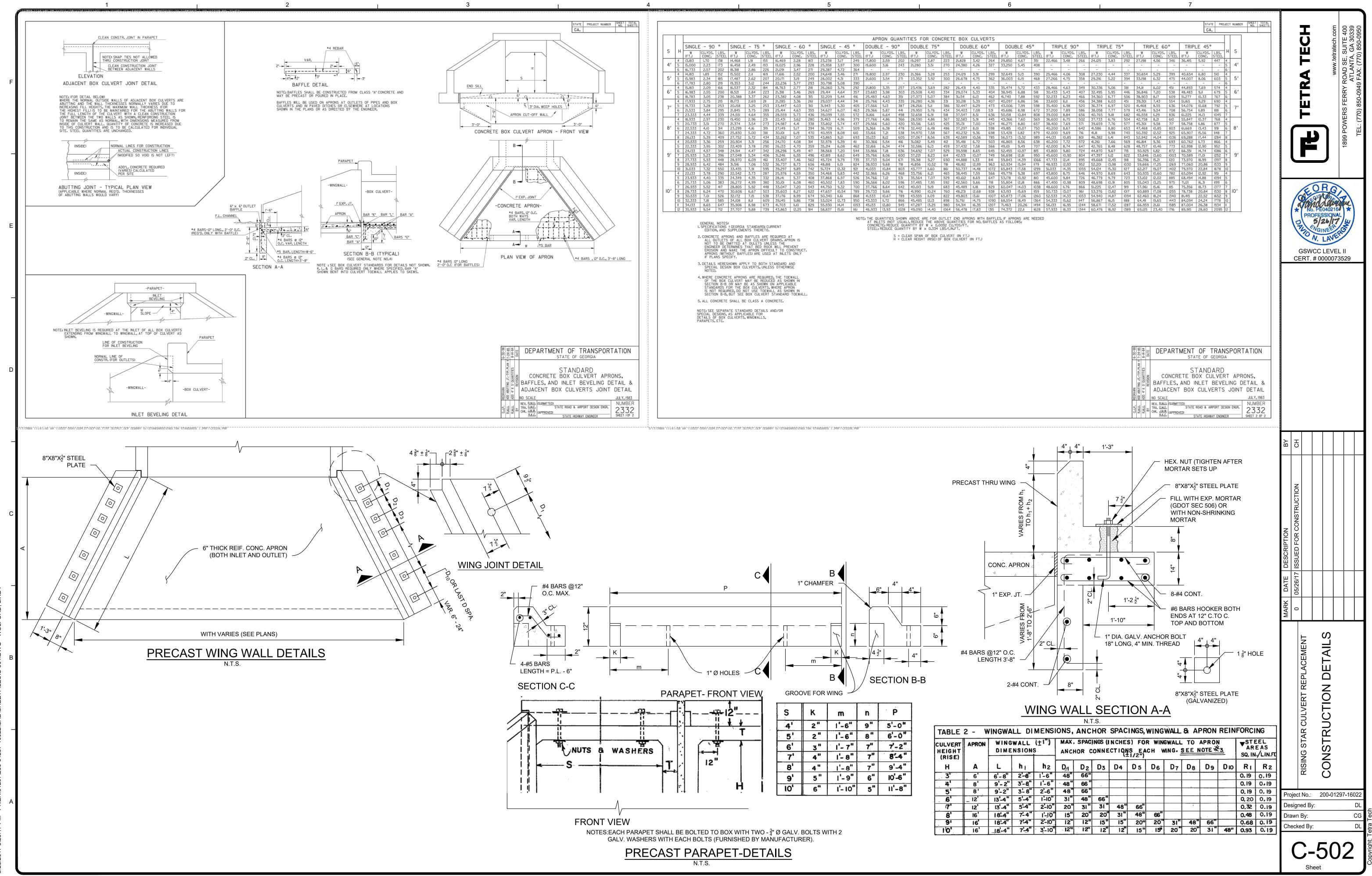
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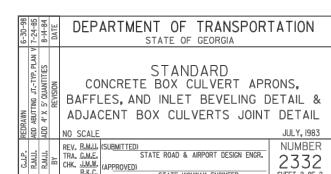
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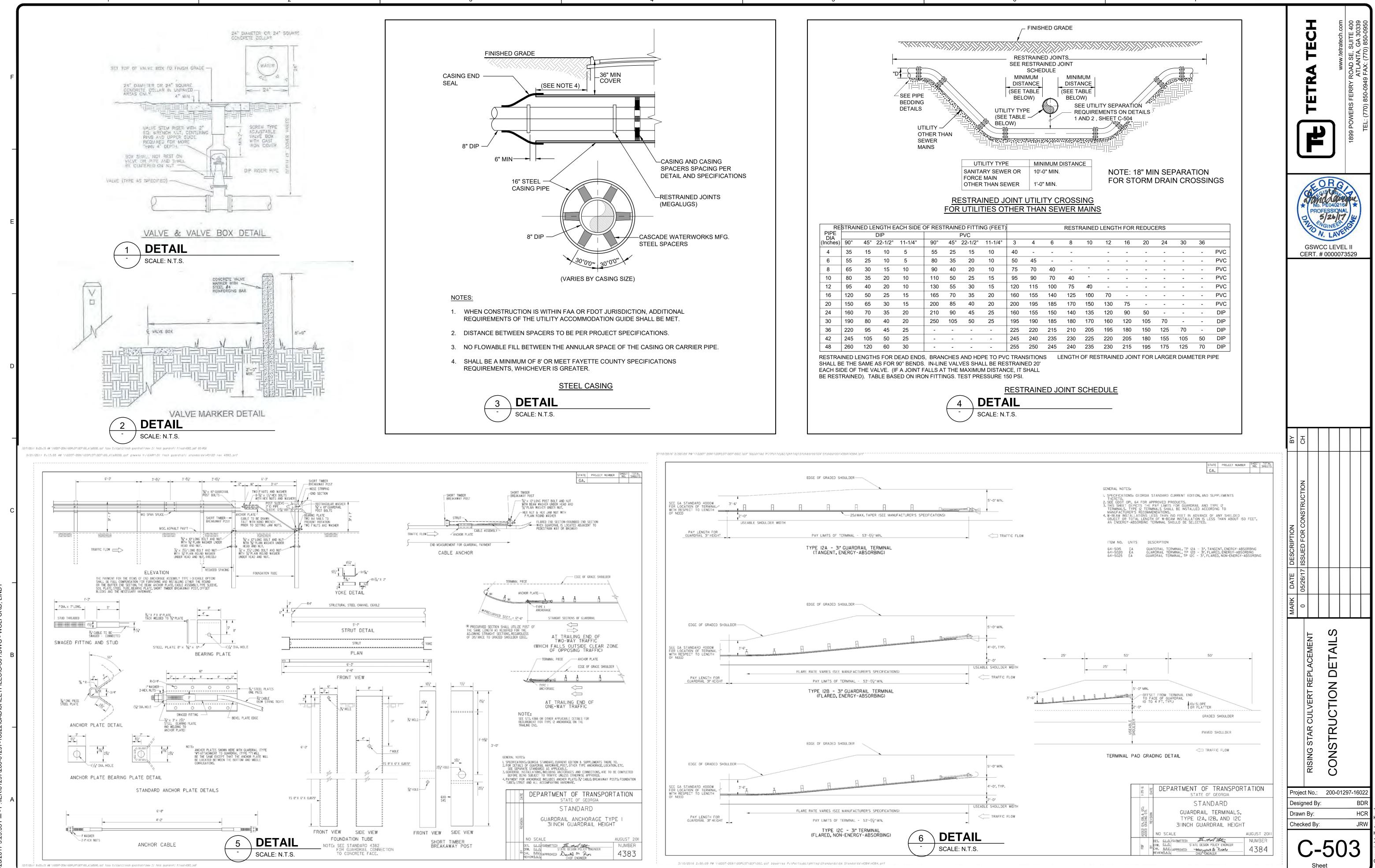
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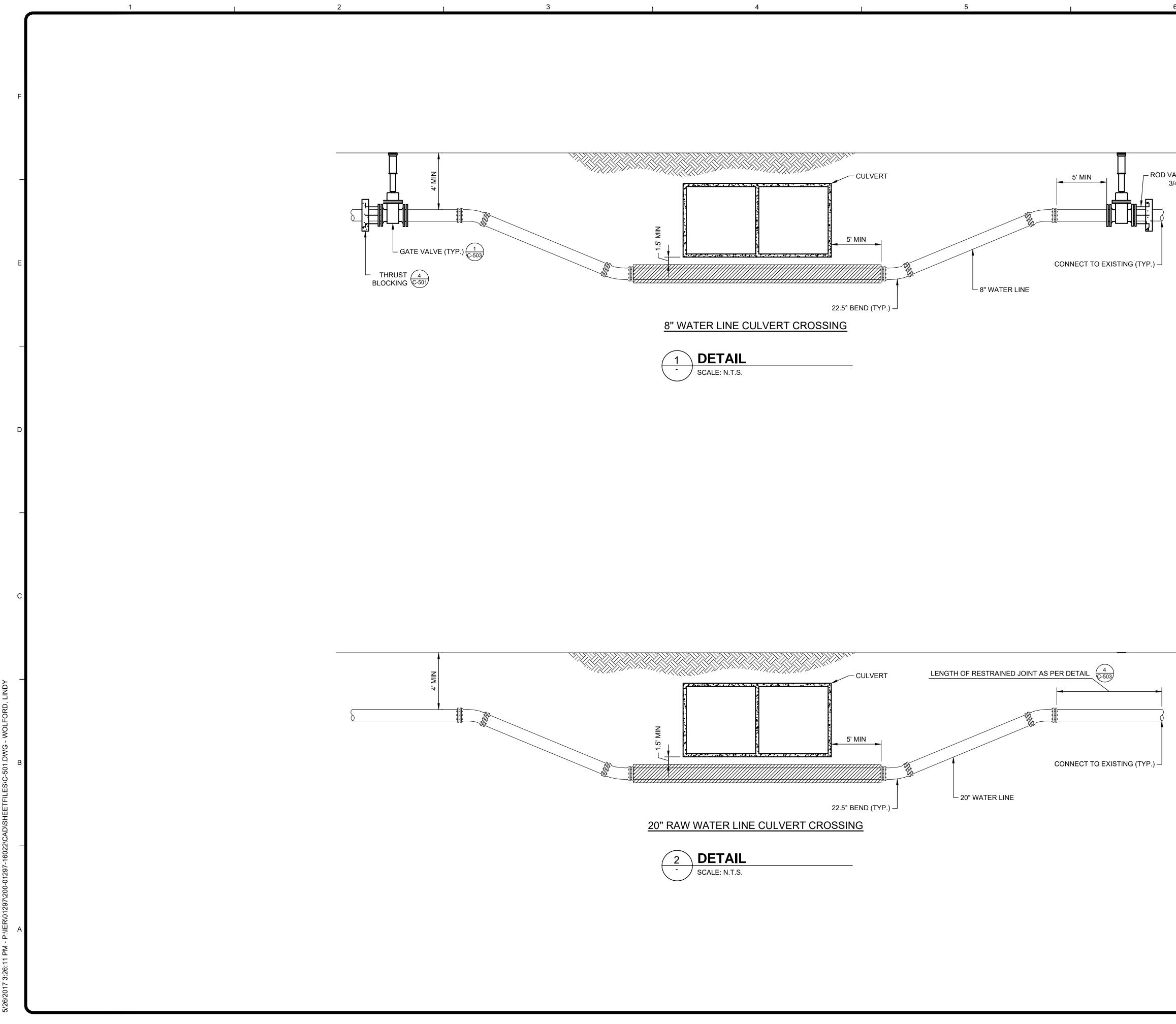


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DOU	3LE 45	•	TRIF	LE 90	0	TRIF	'LE 75	0	TRI	PLE 60)°	TRIPI	LE 45°						8		
N .)	CU.YDS. CONC.	LBS. STEEL	W (FT_)	CU.YDS. CONC.	LBS. STEEL	W (FT.)	CU.YDS. CONC.	LBS. STEEL	W (FT.)	CU.YDS. CONC.	LBS. STEEL	W (FT.)	CU.YDS. CONC.	LBS. STEEL	н	S			8		
850	4.67	351	22.466	3.48	266	24.125	3.83	292	27.198	4.56	346	36.415	5.92	447	4	4'					
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003	6.19	468	27.266	4.75	358	29.216	5.22	394	33.198	6.32	475	44.007	8.06	603	5	5'					\mathbf{T}
- 474	5.72	433	- 28,466	4.63	349	- 30.336	- 5.06	- 381	34.111	- 6.02	451	- 44.893	- 7.69	574	6 4	_				- 4	
945	6.88	518	30.433	5.43	407	32,495	5.95	446	36.846	7.20	538	48.483	9.11		5	6'				1	
'40	7.88	592	32.233	6.23	466	34.360	6.77	506	38.903	8.17	609	51.277	10.33	767	6						
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006	7.99	598	35.400	6.98	520	36.374	6.97	520	41.468	8.55	636	54.076	10.68		5	71					
686	8.98	672	37.200	7.89	586	38.058	7.77	579	43.416	9.54	708	56.754	II.89	881	6	·					
158	10.84	808	39.000	8.84	656	40.765	9.18	682	46.558	11.29	836	61.225	14.13	1045	7						_
366	7.60	569	36.600	6.75	502	37.733	6.76	504	42.758	8.21	610	55.847	10.37	768	4					_	
275	8.80	657	38,400	7.69	571	39.659	7.76	577	45.301	9.58	717	58,758	II.86	-	5	8'					
185	10.07	750	40.200	8.67	642	41.586	8.80	653	47.468	10.85	803	61.669	13.43	991	6	8.			1 1	r	_
428	11.82	879	42.000	9.69	716	41.111	9.98	740	50,392	12.52	925	65.907	15.56	1148	7						
573	13.32	989	44.133	10.85	801	46.382	11.41	843	52.942	14.04	1036	69.288	17.44		8						
865	8.56	638	40.200	7.72	572	41.261	7.66	569	46.814	9.36	693	60.762	11.73	866	4						I
	9.49	707	42.000	8.74	647	42.765	8.48	628	48.757	10.46	773	62.998	12.90		-						
455	10.97	815 950	43.800	9.80	724 804	44.870	9.67 II.I2	715	50.925 53.846	11.82	872	66.35	14.74	1086 1252	6	9'					
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934 843	17,58	1299	51.033	12.95	1055	54,124	15.30	1030	62,217	19.07	1263	79.970	22.84		9						
778	9,38	697	43.800	8.75	646	44.970	8,69	643	50,935	10.60	782	65.094	12.92	951							
178	10.92	810	45.600	9.84	726	46.779	9.79	723	53.102	12.02	885	68.494	14.88		5						
804	12.18	866	47.400	10.98	809	48.698	10.91	805	55.043	13.25	975	71.121	16.31	1199	6						
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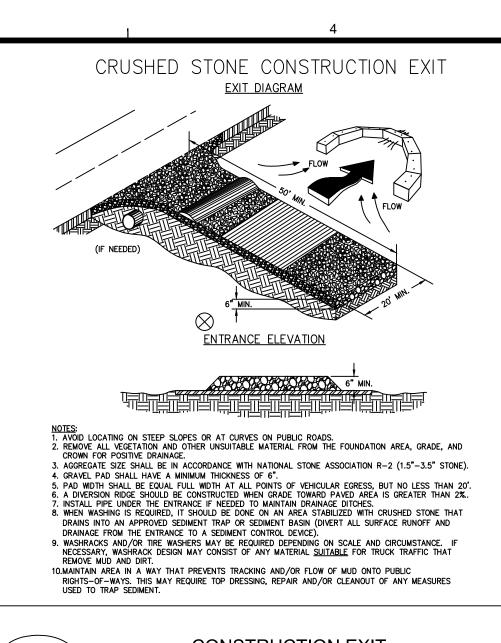
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	SEE R MINI DIST (SEE T BELC ITY TYF TABLE OW)	TRAINE ESTRA SCHEI MUM ANCE ABLE DW) PE		TS DINT DISTA (SEE T/ BELO SE RE 1/	NCE ABLE W) EE UTILI EQUIREN AND 2 , S	MENTS SHEET	ON DE C-504	TAILS ^[7]								
(WER	1'-0' <u>UTILI</u>	" мі <mark>л</mark> . ТҮ СҒ	VER	ING MAINS RAINED	FO	RST	ORM	DRAI	PARA [®] N CR(NGS			No* Dr	
	3 40	4	6	8	10	12 -	16 -	20	24 -	30	36	PVC			(
	50	45	-	-		-	-	-	-	-	-	PVC			CE	Ì
	75	70	40	-	-	-	-	-	-	-	-	PVC				
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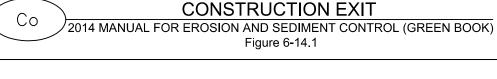


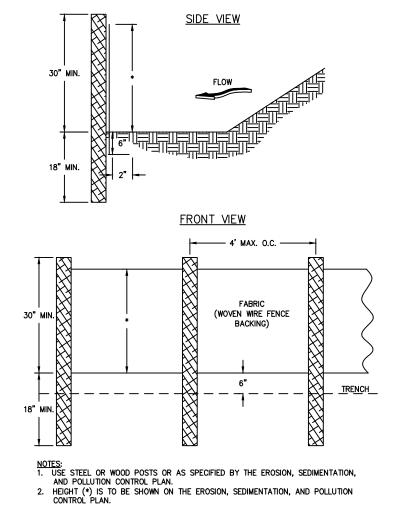
		TETRA TECH)	www.tetratecn.com	1899 POWERS FERRY ROAD SE, SUITE 400 ATI ANTA GA 30330	TEL: (770) 850-0949 FAX: (770) 850-0950
	(GSW				II 529)
ВҮ	CH						
MARK DATE DESCRIPTION	0 05/26/17 ISSUED FOR CONSTRUCTION						
		RISING STAR CULVERT REPLACEMENT					
De: Dra	sign awn	E No.: ed By: ed By:	y:	⁰⁰⁻⁰) 129 0	ŀ	022 BDR ICR RW

– ROD VALVE TO DEADMAN USING 3/4" STEEL TIE RODS (TYP.)

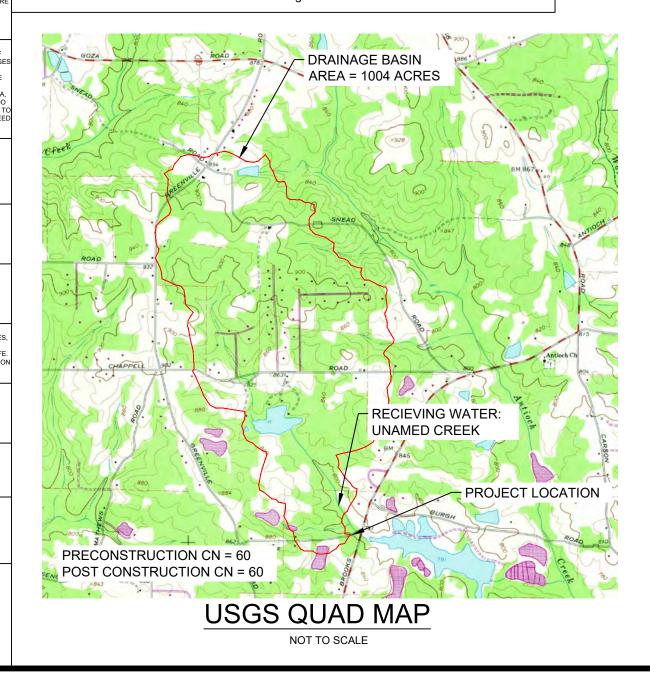
				1					1			2									3
			ERG	SIC		ITROL	_ AC	TIVIT	IES			TYPE OF SPECIE	S YEAR		ANALYSIS (EQUIVALEI N-P-K		RATE	Ē			N TOP DRESSING RATE
	Co	CONSTRUCTION EXIT	(label)	Ds3	DISTURBED AR STABILIZATION (PERMANENT SEEDING)	EA (WITH Ds3] [м		s and TS	Mb		Cool season grasses	First Second Maintenance	e	6-12-12 6-12-12 10-10-10	1000	lbs./ac. lbs./ac. bs./ac.				50-100 lbs./ac. 1/ 2/ - 30
	Sd1 Ds1	SEDIMENT BARRIER DISTURBED AREA STABILIZATION (WIT MULCHING ONLY)	(indicate type) H Ds1	Du	DUST CONTROL ON DISTURBED AREAS		·					Cool season grasses and legumes	First Second Maintenance	e	6-12-12 0-10-10 0-10-10	1000	lbs./ac. lbs./ac. bs./ac.				0-50 lbs./ac. 1/ -
F	Ds2	MULCHING ONLY) DISTURBED AREA STABILIZATION (WIT TEMPORARY SEEDING)		Cd	STORM DRAIN OUTLET PROTECTI							Ground covers	First Second Maintenance	e	10-10-10 10-10-10 10-10-10	1300	lbs./ac. 3 lbs./ac. 3 lbs./ac.				
		EMPORAR` DARD APPL										Pine seedlings	First		20-10-5	per se	1-gram p edling pl closing f	laced			-
	EROSI GROW	ON FOR 6 I /ING SEAS(ABILIZED W	MONTHS ON TO PF	or Le	ESS, WHE	RE SEEC	DINGS	MAY N	ΟΤ ΗΑ\	/E A SU	ITABLE		First Maintenance	e	0-10-10 0-10-10	700	bs./ac. bs./ac. 4/				-
		ATERIAI				INST	ΓALL	ATIO	N			Temporary cover crops seeded alone	First		10-10-10	500	bs./ac.				30 lbs./ac. 5/
		Y STRAW O					-	TO 4 ING	-	-	NG	Warm season grasses	First Second Maintenance		6-12-12 6-12-12 10-10-10	800 I	lbs./ac. bs./ac. bs./ac.				50-100 lbs./ac. 2/ 6/ 50-100 lbs./ac. 2/ 30 lbs./ac.
		OD WASTE VDUST OR				DEPTH	1 OF 2	TO 3 ING	CHES			Warm season grasses and	First Second		6-12-12 0-10-10	1500	lbs./ac. lbs./ac.				50 lbs./ac. 6/
		DSION CON						CORDA			TIONS	legumes 1/ Apply in spring followin 2/ Apply in split applicatio used.			0-10-10	<u>MUL(</u> 1. DR		W: 2 TO			
E		TBACK ASP						NS PER A				 3/ Apply in 3 split applicat 4/ Apply when plants are 5/ Apply to grass species 6/ Apply when plants growinches. 	pruned. only.	to 4		3. FO OR	R HYDR		EEDIN	G US	CRE. SE WOOD CELLULOSE MULCH E RATE OF 500 POUNDS
	POL	YETHYLEN	IE FILM			SOIL N	IATER	VER BAN IAL FOR			KPILED		<u>F</u>		ZER AND M EQUIREMEN		G				
			DI	STU	RBED	PROTE AREA			ATIC	DN		SPECIES	BROA RATES 1/ - PER ACRE PE		AREA 3	E PLAN	TING DA				REMARKS
	Ds	1 2014	MANUAI		VITH M EROSION				/	GREEN	BOOK)	BAHIA, PENSACOLA (Paspalum notatum) ALONE OR W/ TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LBS.	P C					-	
		PLANTING R	ATES, AND					OVER OR				BAHIA, WILMINGTON (Paspalum notatum)	60 LBS.	1.4 LBS.	M-L	JFMA	MJ	J A S	0 N [
ŀ	SPECIE BARLEY (Hordeum vulg	S RA PER AC	ATES 2/ - PLS 3/ CRE PER	1 1000 S.F. .3 LBS.	RESOURCE AREA ^{M-L} P				14	REMAR	R POUND	ALONE OR W/ TEMPORARY COVER WITH OTHER PERENNIALS BERMUDA, COMMON (Cynodon dacttion)	30 LBS.	0.7 LBS.	P	J F M A	MJ	J A S	0 N [
	ALONE IN MIXTURE	ES 1/2 L	ou.	1.6 LBS.	C M-L	J F M A M	A J J A	S O N D		PRODUCTIVE		HULLED SEED ALONE OR W/ OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	P C	J F M A	MJ	J A S	0 N [D	
D	(Lespedeza str ALONE IN MIXTURE	iata) 40 LBS		.9 LBS. 1.2 LBS.	P C	J F M A M	A L L M	SOND			Pound. May Eral Years. Us It el.	BERMUDA, COMMON (Cynodon dactylon) UNHULLED SEED W/ TEMP COVER WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	P C	┥┥					PLANT WITH WINTER ANNUALS PLANT WITH TALL FESCUE.
	LOVEGRASS, WE (Eragrotis curv ALONE IN MIXTURE	rula) 4 LBS.		.1 LBS. 1.05 LBS.	M-L P C	3 III 2 3 III 2 3 III 2			FOR		ound. May las' RS. Mix With Pedeza	F BERMUDA SPRIGS (Cynodon dactylon) COASTAL, COMMON,	10.0	.F. 0.9 C.I		J F M A	MJ.	JAS	0 N [D	A CUBIC FOOT CONTAINS APPROXIMATELY 650 SPRIGS. A
/	IILLET, BROWNTO fasciculatur ALONE	P (Panicum		.9 LBS.	M-L P	J F M A M	/ J J A	SOND	DENSE	COVER. WILL	POUND. QUICK	MIDLAND, OR TIFT 44 COASTAL, COMMON, OR TIFT 44		OR OR PLUGS 3' x	(3' P C				+	_	BUSHEL CONTAINS 1.26 CUBIC FEET OR APPROXIMATELY 800 SPRIGS. PLANT WITH WINTER ANNALS PLANT WITH TALL RESCUE SOUTHERN COSTAL PLAIN ONLY
	IN MIXTURE MILLET, PEA	ES 10 LBS		.2 LBS.	C M-L	J F M A M	/ J J A	S O N D	SI	EEDED AT HIC	IN MIXTURES IF GH RATES.	TIFT 78			C	J F M A	MJ.	J A S	0 N [D	DROUGHT TOLERANT. FULL SUN OR PAF SHADE. EFFECTIVE ADJACENT TO COI AND IN CONCENTRATED FLOW AREA
_	(Panicum glau	50 LBS	. 1	.1 LBS.	P C		и и и и и и и и и и и и и и и и и и и	SOND	DENSE (COVER. MAY F	REACH 5 FEET IN MMENDED FOR	ı ophiuroides)	BLOCK SC	OD ONLY	P C	J F M A	(M J)	J A S	0 N [D	IRRIGATION IS NEEDE LOW AREA IRRIGATION IS NEEDE UNTIL FULL ESTABLISHED, DO NOT PLANT NEAF PASTURES, WINTERHARDY AS FAR NO AS ATHENS AND ATLANTA.
	OATS (Avena sativ ALONE IN MIXTURE	(128 LE	3S.) 2 I.	9 LBS. 0.7 LBS.	M-L P C				PRO	DUCTIVE SO	DUND. USE ON ILS. NOT AS YE OR BARLEY.	CROWNVETECH (Coronilla varia) WITH WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS.	0.3 LBS.	M-L P				•		100.000 SEED PER POUND. DENSE GROV ATTRACTIVE ROSE, PINK, AND WHITE BLOSSOMS SPRING TO LATE FALL. MIX V LBS. OF TALL FESCUE OR 15 LBS. OF R INOCULATE SEED WITH M INOCULANT. FROM NORTH ATLANTA AND NORTHWA
	RYE (Secale cerea ALONE	LBS	5.) 3	.9 LBS.	M-L P C		/ J J A	S O N D			OUND. QUICK	FESCUE, TALL (Festuca arundinacea) ALONE W/ OTHER PERENNIALS	50 LBS.	1.1 LBS.	M-L P		(MJ)		0 N [227,000 SEED PER POUND. USE ALC ONLY ON BETTER SITES. NOT FO DROUGHTY SOILS. MIX WITH PEREN LESPEDEZAS OR CROWNVETCH. NO
<u> </u>	IN MIXTURE RYEGRASS, ANNU temulentum	AL (Lolium		C LBS.	M-L	J F M A N		SOND	227,00	WINTERHA	POUND. DENSE	KUDZU (Pueraria thumbergiana)	30 LBS.	0.7 LBS.		J F M A	MJ.	JAS	0 N [D	HEAVY USE AREAS OR ATHLETIC FIE RAPID AND VIGOROUS GROWTH EXCELLENT IN GULLY EROSION
	ALONE SUDAN GRA	40 LBS	. 0	.9 LBS.	M-L	J F M A N	/ J J A	S O N D		R. VERY COMF TO BE USED I	PETITIVE AND IS	PLANTS OR CROWNS	3' - 7	' APART	ALL	J F M A	MJ	JAS	0 N [D	CONTROL. WILL CLIMB. GOOD LIVESTOCK FORAGE. 350,000 SEED PER POUND. WIDELY AD/
	(Sorghum suda	nese) 60 LBS	. 1	.4 LBS.	P C	J F M A M	/ J J A	SOND		DROUGHT SIT	UND. GOOD ON TES. <u>NOT</u> DR MIXTURES.	(Lespedeza cuneata) SCARIFIED	60 LBS.	1.4 LBS.	M-L P C		┝┥╴				LOW MAINTENANCE. MIX WITH WEEF LOVEGRASS, COMMON BERWIDA, BAH TALL FESCUE. TAKES 2 TO 3 YEARS BECOME FULLY ESTABLISHED. EXCEL ON ROADBANKS. INOCULANT.
	TRITICALE (X-Triticoseca ALONE IN MIXTURE	ale) 3 bu. (LBS 1/2 bu	5.) 3 . (24	.3 LBS.	C				COAS		T OF SOUTHERN D IN ATLANTIC OODS ONLY.	UNSCARIFIED	75 LBS.	1.7 LBS.	M-L P C	┿┥╎					
_	WHEAT (Triticum aestiv		(180	.1 LBS.	M-L P	J F M A N	A L L N	SOND	15	5,000 SEED PE	R POUND.	SEED-BEARING HAY	3 TONS	138 LBS.	M-L P C	╺┽╼┥					CUT WHEN SEED IS MATURE, BUT BE IT SHATTERS. ADD TALL FESCUE (WINTER ANNUALS.
		ES 1/2 bu LB Y COVER CROPS /	S.) 0 ARE VERY COM		C AND WILL CROV	J F M A M	/ J J A	S O N D	HEAVILY.			LESPEDEZA Ambro virgata (Lespedeza virgata DC) or Appalow (Lespedeza cuneata [Dumont] G. Don)				J F M A	MJ		0 N [300,000 SEED PER POUND. HEIGHT GROWTH IS 18 TO 24 INCHES. ADVAN' IN URBAN AREAS. SPREADING TY GROWTH. NEW GROWTH HAS BROI
	3/ PLS IS AN A 4/ M-L REPRES P REPRESE C REPRESE	BBREVIATION FOF SENTS TO MOUNT NTS THE SOUTHEI NTS THE SOUTHEI E 6-4.1, P 6-40 IN T	R PURE LIVE S AIN; BLUE RID RN PIEDMONT RN COASTAL F	EED. GE; AND R MLRA PLAIN; SAN	ID HILLS; BLACK	LANDS; AND A			VOODS MLR	RAs		SCARIFIED	60 LBS. 75 LBS.	1.4 LBS. 1.7 LBS.	M-L P C M-L P						COLORATION. MIX W/ WEEPING LOVEGRASS, COMMON BERMUDA B, TALL FESCUE, OR WINTER ANNUALS NOT MIX W. SERICEA LESPEDEZA. SLI DEVELOP SOLID STANDS. INOCULATE
	walker	FANNIN HUNGER GILMER			JOR LAND			,	RA) OF G	EORGIA	<u>.</u>	LESPEDEZA, SHRUB(Lespedeza bicolor)) (Lespedeza thumbergii)			C M-L	JFM/	MJ		0 N [W/ EL INOCULANT.
в	FLOYD FLOYD	PICKENS VISO	HALL BANKS	RANKLIN HAR	LBERT			AIN, BLUE RID		DGES AND V	ALLEY	PLANTS	3' >	< 3'	PC	J F M A	MJ	J A S	0 N 0	D	
	POLK	COBB CHIN	WALTON MOR	ANTO CLETHOR	WILKES		SOUTH	ERN PIEDMON COASTAL PLA LANTIC COAS	AIN, SAND H		LANDS,	(Eragrostis curvula) ALONE W/ OTHER PERENNIALS	4 LBS. 2 LBS.	0.1 LBS. 0.05 LBS	M-L P C	J F M 4		J A S	0 N [
	CARROLL HEARD	The Free Free Free Free Free Free Free Fr		TNAM HANCO		CHMOND 2						MAIDENCARE (Panicum hemitomon) SPRIGS WITH OTHER PERENNIALS	2' x 3'	SPACING	ALL						FOR VERY WET SITES. MAY CLO CHANNELS. DIG SPRIGS FROM LOCAL SOURCES. USE ALONG RIVER BANKS AND SHORELINES
	HA		JONES	Contraction Contraction		JENKINS SCREV	VEN					PANICGRASS, ATLANTIC COASTAL			P	J F M A	MJ	JAS	0 N [D	GROWS WELL ON COASTAL SAND DU BORROW AREAS, AND GRAVEL PI
		MODE MARION OF MAR	CON PULA	ECKLEX		Strates BULLOCH	H CHANGHAN	Ĺ				(Panicum amarum var. amarulum) REED CANARY GRASS	20 LBS.	0.5 LBS.	с	J F M A	M J	JAS	0 N [D	PROVIDES WINTER COVER FOR WILL MIX WITH SERICEA LESPEDEZA EXCE SAND DUNES.
		VART B SUMTER TERRELL LEE		$\langle /$				ATHAM				(Phalaris arundinancea) ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LBS.	M-L P	JFMA	MJ	J A S		D	GROWS SIMILAR TO TALL FESCUE.
	EAR	<u> </u>		$\rightarrow \tau$		ERCE	ALL					SUNFLOWER, 'AZTEC' MAXIMILLIAN (Helianthus maximiliani)	10 LBS.	0.2 LBS.	M-L P C			J A S			
A	SEE	MILLER MITCHELI	᠊ᢩ᠘᠆ᡙ᠆ᡬ	COMMERCE	<u>لے ج</u>	HARLTON CO	AN AN						I			J F M A	.[M]J[.	<u>A S</u>		<u> </u>	
	¥			j ⊧	CHOLS	$\left\{ \right\}$						-		-סוס	דו ורסי			<u>ст</u>	ا م \		
	Ds	2			ILIZAT		ΓMΡ.	SEE				Ds3		_	PERMA			_			ZATION ION)
		2014	MANUAL	- FOR I	EROSION	AND SE		IT CONT	KOL (G	∍reēn I	SUUK)										







SILT FENCE-TYPE SENSITIVE Sd1-S 2014 MANUAL FOR EROSION AND SEDIMENT CONTROL (GREEN BOOK) Figure 6-27.2



EROSION CONTROL NOTES:

- SPECIFICATIONS IN THE "MANUAL FOR EROSION CONTROL AND SEDIMENT CONTROL IN GEORGIA".
- 2. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE.
- 3. DISTURBED AREAS LEFT IDLE FOR FIVE DAYS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED WITH TEMPORARY MULCH (DS1) OR VEGETATION (DS2). DISTURBED AREAS LEFT IDLE FOR TWO WEEKS OR MORE WILL BE ESTABLISHED WITH PERMANENT VEGETATION (DS3). ALL AREAS AT FINAL GRADE WILL BE ESTABLISHED WITH PERMANENT SEEDING. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (DS3). ON SLOPES THAT ARE 2:1 OR STEEPER, MULCH WILL BE ANCHORED.
- 4. IN CONCENTRATED FLOW AREAS: ALL SLOPES STEEPER THAN 2.5:1, HEIGHT TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, STABILIZE WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
- 5. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT SOURCE.
- REACHED ONE THIRD THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- TO STABILIZE CONSTRUCTION SITES MUST BE USED IN CONJUNCTION WITH MULCHING AND OR HYDROSEEDING.
- 9. ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY ENGINEER DURING CONSTRUCTION.
- TEMPORARY MULCHING, GRASSING OR PERMANENT GRASSING FOR THE DISTURBED AREAS OF THE PROJECT.

EROSION CONTROL CHECKLIST CERTIFICATIONS:

- WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
- DISTURBING ACTIVITIES.
- CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- 4. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- CLASSIFIED AS A UTILITY CROSSING. AS SUCH NO USACE PERMIT OR BUFFER VARIANCE IS ANTICIPATED.

"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

STRUCTURAL PRACTICES	VEGETATIVE PRACTICES
Co CONSTRUCTION EXIT	Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING Ds1 ONLY)
Sd1-S SEDIMENT	Ds2 Ds2 Ds2 Ds2 Ds2 Ds2 Ds2 Ds2
	Ds3 PERMANENT Ds3

PRIMARY PERMITTEE TO BE PROVIDED AFTER PROJECT IS AWARDED.

24 HOUR EROSION CONTROL CONTACT: PHILIP MALLON (770-313-9855)

1. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS AND

VEGETATION IMMEDIATELY UPON COMPLETION. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF

PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT

6. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS

7. THE USE OF POLYMERS (PAMS) IS ACCEPTED AS A BMP AS RECOMMENDED BY THE STATE SOIL & WATER CONSERVATION COMMISSION BMP "GREEN BOOK". POLYMERS USED

8. MULCH, TEMPORARY VEGETATION, AND PERMANENT (PERENNIAL) VEGETATION SHALL BE COMPLETED ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE.

10. DUE TO THE NATURE AND LOCATION OF THE CONSTRUCTION ACTIVITY, PROVIDING SEDIMENT STORAGE FOR 67 CUBIC YARDS OF SEDIMENT PER ACRE DISTURBED IS NOT FEASIBLE. APPROPRIATE BMPS THAT LIMIT THE TRANSPORT OF SEDIMENT FROM THE SITE WILL BE UTILIZED. THERE BMPS INCLUDE BUT ARE NOT LIMITED TO SILT FENCE AND

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFER AS MEASURED FROM THE POINT OF WRESTED VEGETATION

2. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND

3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION

5. ALL STREAM BUFFER DISTURBANCES ARE ASSOCIATED WITH THE CULVERT REPLACEMENT. THE PROJECT DISTURBS LESS THAN 100 LINEAR FEET OF STREAM AND IS

CONS	TRUCTION SCHE	DULE	
MONTHS	1	2	3
INSTALLATION OF SEDIMENT CONTROL MEASURES			
CLEARING, GRUBBING			
PIPE INSTALLATION			
PAVING			
GRASSING			
MAINTAINING OF EROSION AND SOIL CONTROL MEASURES			
FINAL LANDSCAPING, GRASSING			

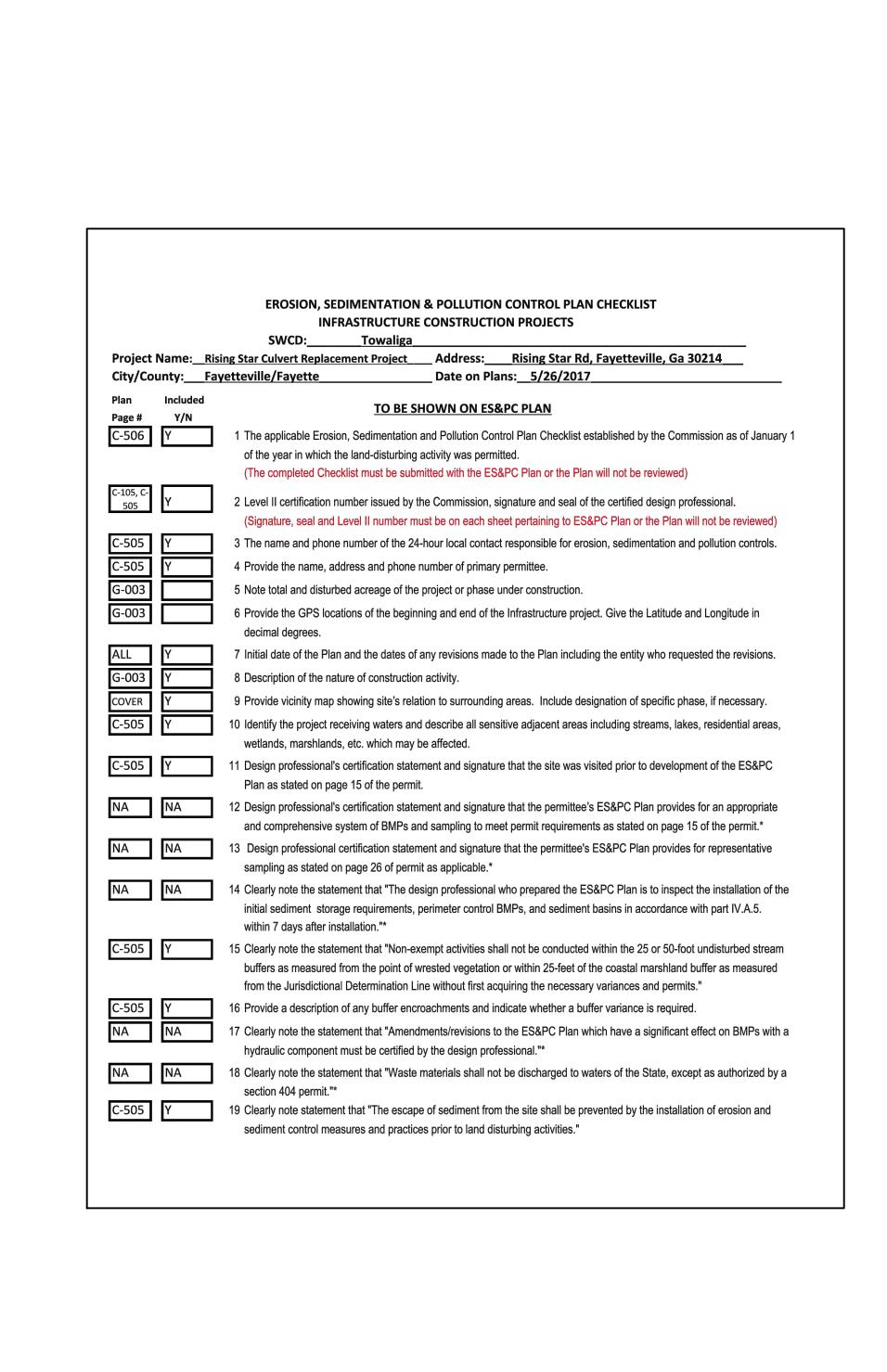
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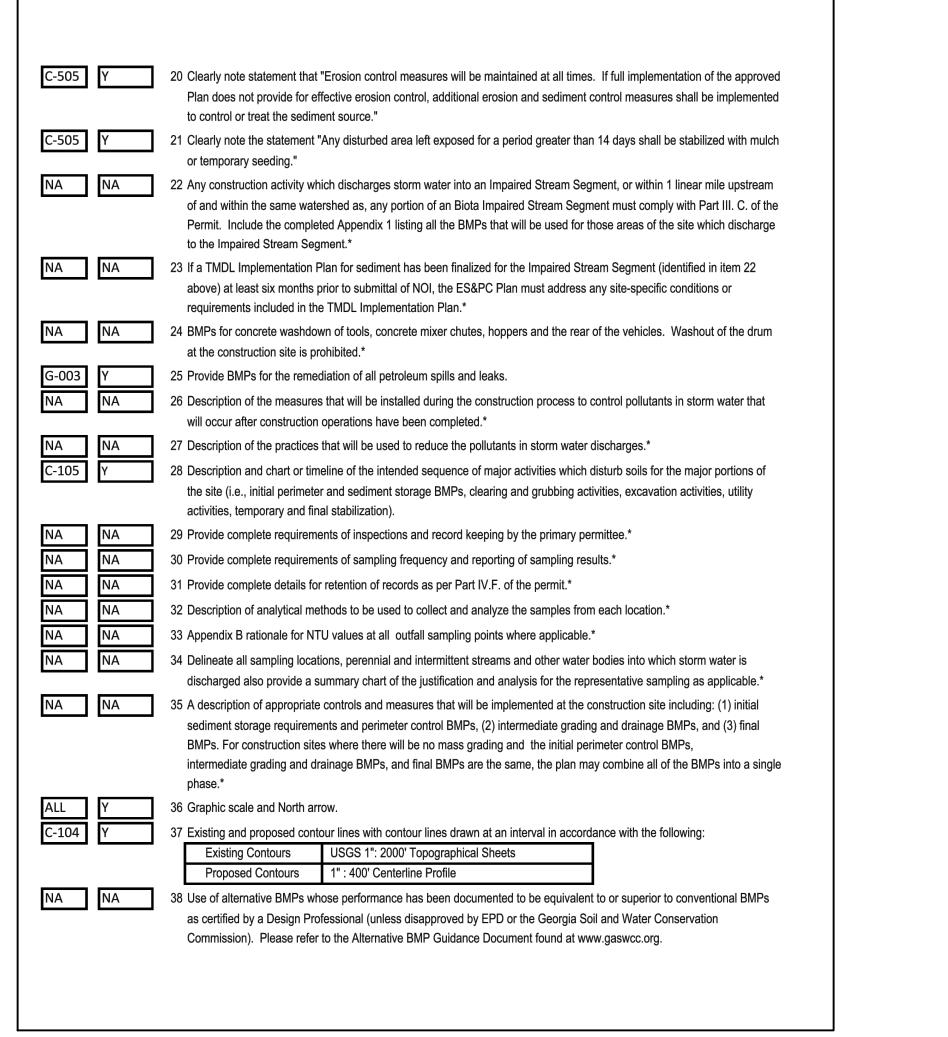
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MARK DATE DESCRIPTION	0 05/26/17 ISSUED FOR CONSTRUCTION						
DATE	05/26/17						
MARK	0						
		RISING STAR CULVERT REPLACEMENT		EROSION CONTROL	DFTAII S		
Pro	ject	No.:	2	00-0	1297	7-160)22
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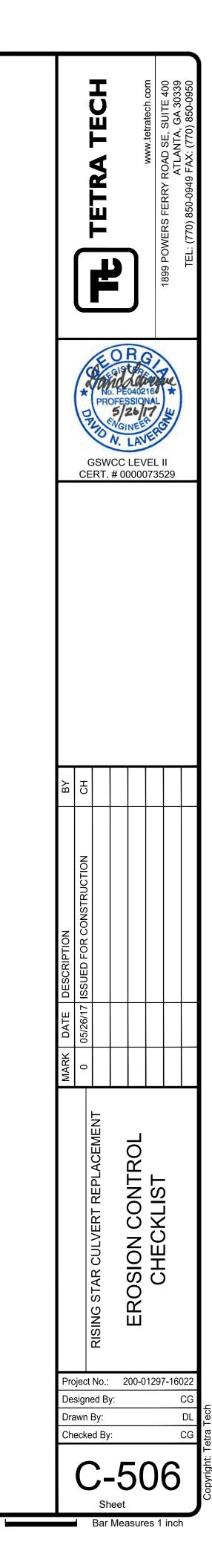
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NA	NA	39 Use of alternative BMP for
C-105	Υ	Erosion & Sediment Contro 40 Delineation of the applicabl required by the Local Issuir
NA	NA	41 Delineation of on-site wetla
C-505	Y	42 Delineation and acreage of
C-505	Y	43 Delineate on-site drainage
C-505	Y	44 An estimate of the runoff co completed.
C-104	Y	45 Storm-drain pipe and weir w Identify/Delineate all storm
C-105	Y	46 Soil series for the project si
G-003	Υ	47 The limits of disturbance for
C-505 C-505 C-505 C-105, C- 505	Υ Υ Υ Υ	 48 Provide a minimum of 67 cm retrofitted detention pond, a volume must be in place pri achieved. A written justfical must be included in the plan justification as to why 67 cm included for structural BMP when using equivalent cont utilize outlet structures that the surface are not feasable 49 Location of Best Manageme Sediment Control in Georgi 50 Provide detailed drawings f the Manual for Erosion and 51 Provide vegetative plan, no seeding, fertilizer, lime and will take place and for the a
		*If using this checklist for a proj but within 200 ft of a perennial s



- r application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for rol in Georgia 2016 Edition.*
- ble 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers uing Authority. Clearly note and delineate all areas of impact.
- tlands and all State waters located on and within 200 feet of the project site.
- of contributing drainage basins on the project site.
- e and off-site watersheds using USGS 1" :2000' topographical sheets.
- coefficient or peak discharge flow of the site prior to and after construction activities are
- ir velocities with appropriate outlet protection to accommodate discharges without erosion. m water discharge points.
- site and their delineation.
- for each phase of construction.
- cubic yards of sediment storage per acre drained using a temporary sediment basin,
- I, and/or excavated inlet sediment traps for each common drainage location. Sediment storage prior to and during all land disturbance activities until final stabilization of the site has been ication explaining the decision to use equivalent controls when a sediment basin is not attainable of an for each common drainage location in which a sediment basin is not provided. A written cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be MPs and all calculations used by the design professional to obtain the required sediment storage bontrols. When discharging from sediment basins and impoundments, permittees are required to at withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the location explaining this decision must be included in the plan.
- ment Practices that are consistent with and no less stringent than the Manual for Erosion and rgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
- s for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in nd Sediment Control in Georgia.
- noting all temporary and permanent vegetative practices. Include species, planting dates and nd mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding e appropriate geographic region of Georgia.
- roject that is less than 1 acre and not part of a common development al stream the * checklist items would be N/A. **Effective January 1, 2017**