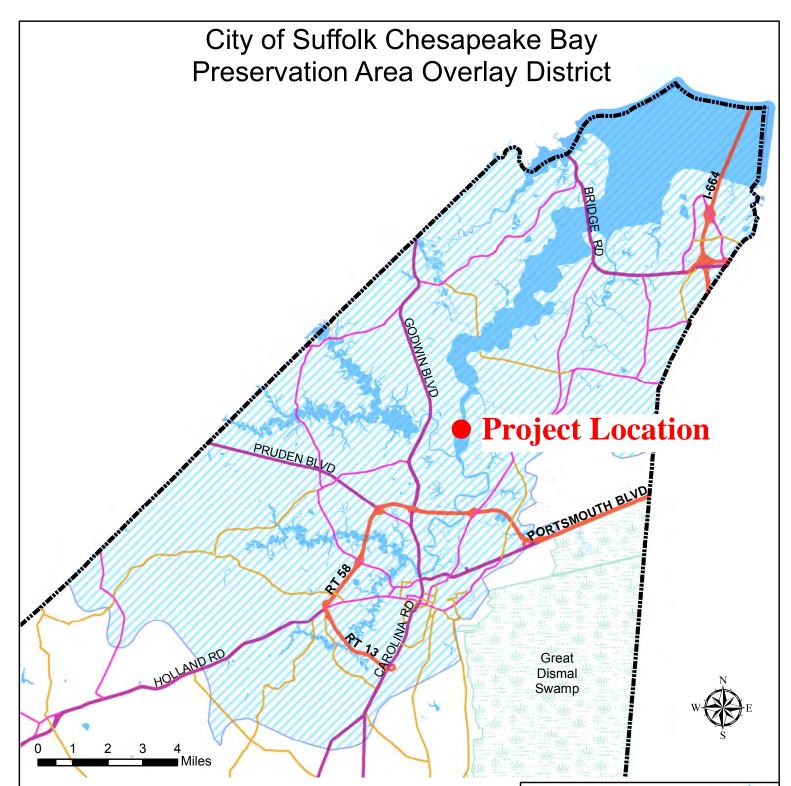
Part 4 **PROJECT DRAWINGS**

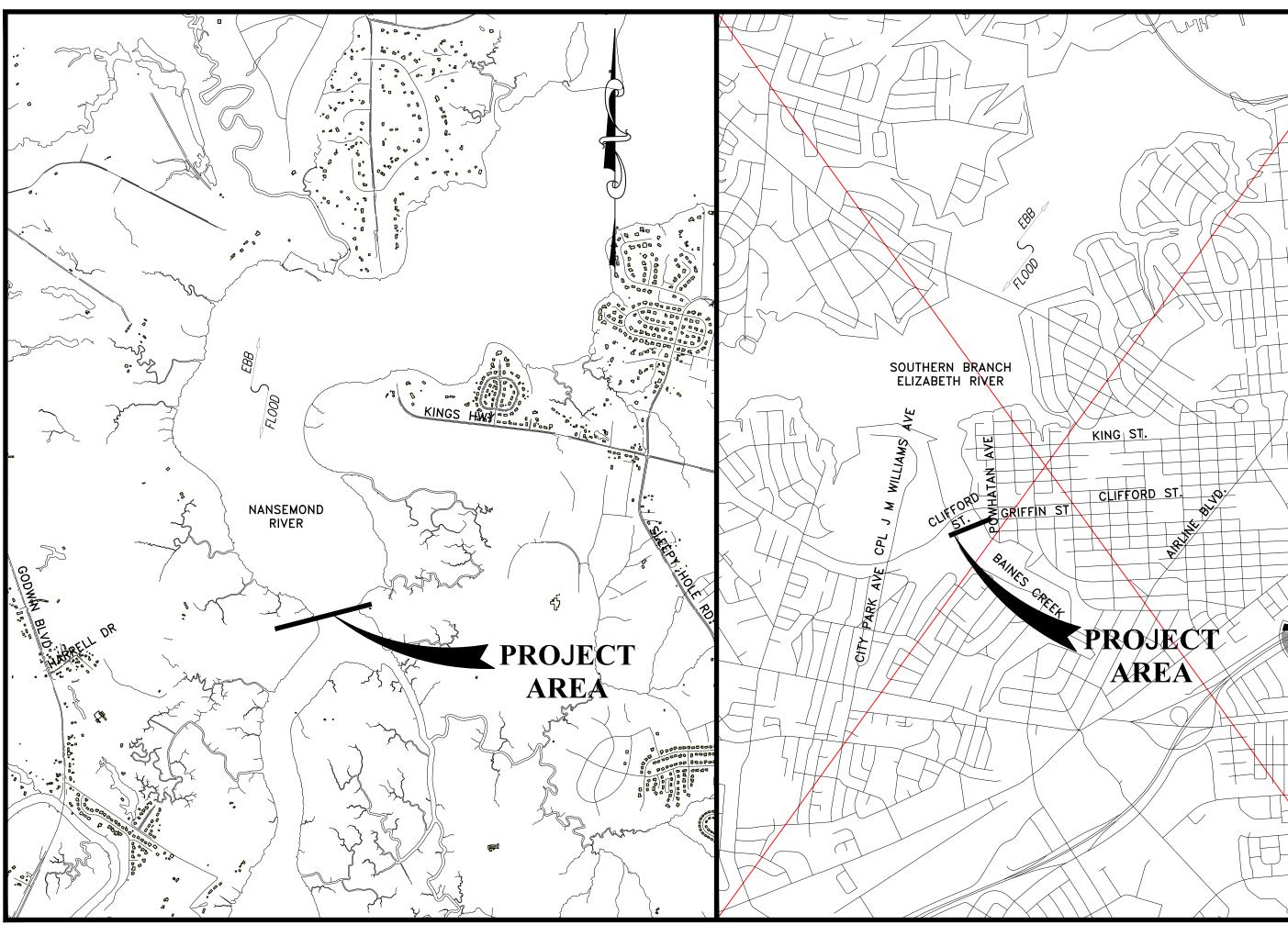


The Virginia General Assembly enacted the Chesapeake Bay Preservation Act (CBPA) which requires all Tidewater Virginia localities to establish local programs to protect and improve water quality in the Chesapeake Bay watershed and its tributaries. The purpose of the City of Suffolk Chesapeake Bay Preservation Area Overlay District is to protect and improve water quality by reducing stormwater runoff, and as such all land located within the CBPA Overlay District is subject to special restrictions to prevent damage to water quality.

If you have questions about development within the CBPA please contact the Planning Division at 757-514-4060.

City of Suffolk

CONTRACT DRAWINGS FOR RAW WATER MAIN IMPROVEMENTS NANSEMOND RIVER 42-INCH H.D.D. CROSSING AND BAINES CREEK 36-INCH H.D.D. CROSSING **SEPTEMBER 2017**



* RESPONSIBLE LAND DISTURBER DESIGNATION	
THE PERSON IDENTIFIED BELOW IS DESIGNATED AS THE RESPONSIBLE LAND DISTURBER WHO WILL BI CHARGE OF AND RESPONSIBLE FOR CARRYING OUT THE LAND DISTURBING ACTIVITY ASSOCIATED WI PROJECT. THIS PERSON MEETS THE APPLICABLE REQUIREMENTS OF CODE SECTION 10.1-563 AND 10.1-5 VIRTUE OF THE FOLLOWING:	ITH THIS
X RESPONSIBLE LAND DISTURBER CERTIFICATE	
DCR CERTIFICATION FOR COMBINED ADMINISTRATOR, ADMINISTRATOR, PLAN REVIEWER, INSPECTOR, OR CONTRACTOR.	
VIRGINIA PROFESSIONAL ENGINEER, LAND SURVEYOR, LANDSCAPE ARCHITECT, OR ARCHI	TECT.
RESPONSIBLE LAND DISTURBER CONTACT INFORMATION:	
NAME (SIGNATURE) WARREN WILCZYNSKI	<u>2017</u>
70001	
COMPANY MICHAEL BAKER INTERNATIONAL, INC.	
MAILING ADDRESS 272 BENDIX ROAD, SUITE 400	
VIRGINIA BEACH, VA 23452	
TELEPHONE 757-631-5451 FAX 757-463-0503	
EMAIL WARREN. WILCZYNSKI@MBAKERINTL.COM	
THIS DESIGNATION MAY ONLY BE CHANGED BY A PLAN COVER SHEET REVISION THAT MUST BE SUBMITTED TO THE CITY FOR VERIFICATION AND APPROVAL.	

CONTRACTOR SHALL COMPLETE AND SUBMIT A COPY OF THE COVER SHEET WITH HIS REQUEST FOR RESPONSIBLE LAND DISTURBER DESIGNATION AND RECEIPT OF PERMIT PRIOR TO COMMENCEMENT OF WORK.

DATE	SHEETS REVISED	INITIALS
REVIEWED:	DATE:	
	DEPARTMENT OF UTILITIES	



NANSEMOND RIVER 42-INCH H.D.D. CROSSING SUFFOLK, VA

BAINES CREEK 36-INCH H.D.D. CROSSING PORTSMOUTH, VA

LOCATION MAPS SCALE: 1"=2,000'



LIST OF DRAWINGS

(STRIKEOUT ITEMS NOT INCLUDED IN THE ANNOTATED JPA DRAWINGS)

COVER SHEET 1
SURVEY NOTES, SEQUENCE OF CONSTRUCTION AND LEGEND 2
GENERAL NOTES
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS 4
SHEET LAYOUTS
NANSEMOND RIVER EASTERN BANK 36-INCH D.I. WATER MAIN
NANSEMOND RIVER WESTERN BANK 42-INCH STEEL H.D.D. WATER MAIN
NANSEMOND RIVER EASTERN BANK 42–INCH STEEL H.D.D. WATER MAIN
NANSEMOND RIVER WESTERN BANK 36-INCH/42-INCH D.I. WATER MAIN
NANSEMOND RIVER EASTERN BANK 42-INCH D.I. WATER MAIN
BAINES CREEK 36-INCH FPVC WATER MAIN PLAN & PROFILE 11-
PIPE LAYOUT AREAS
-DETAILS
-DETAILS
CORROSION CONTROL DETAILS

SUBMITTED UNDER PART 4 (PROJECT DRAWINGS) OF THE JOINT PERMIT APPLICATION (JPA) FOR THE REFERENCED PROJECT

(Annotated September 15, 2017)

Estimated quantities derived from design file, within the defined Limits of Construction:

Tree Clearing = 35,177 square feet (0.808 acres)



Limits of Construction = 199,380 square feet (4.577 acres)

SURVEY	NOTES
JUNEL	NULL

SURVEY NOTES (NANSEMOND RIVER, SUFFOLK, VA):

- THE MERIDIAN, COORDINATE VALUES AND DISTANCES SHOWN HEREON ARE BASED ON THE VIRGINIA COORDINATE SYSTEM OF 1983, SOUTH ZONE, NAD83(1993) HARN. THE COORDINATE VALUES AND DISTANCES SHOWN ARE EXPRESSED IN U.S. SURVEY FEET.
 ELEVATIONS AS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND ARE EXPRESSED IN FEET.
 THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS,
- 4. THIS SURVEY DOES NOT GUARANTEE THE LOCATION AND/OR EXISTENCE OF ALL UNDERGROUND UTILITIES. PRIOR
- TO CONSTRUCTION OR EXCAVATION, THE CONTRACTOR SHALL CONTACT "MISS UTILITY" OF VIRGINIA AT 1-800-552-7001 OR 811.
- 5. TOPOGRAPHIC SURVEY PERFORMED BY ROUSE-SIRINE ASSOCIATES, LTD. ON NOVEMBER 16, 1995. ALL ORIGINAL 1995 SURVEY INFORMATION WAS CONVERTED TO THE HORIZONTAL AND VERTICAL DATUMS LISTED ABOVE.
- 6. BATHYMETRIC CROSS SECTION ELEVATIONS SHOWN HEREON WERE OBTAINED ON JUNE 15, 2015.

SURVEY NOTES (BAINES CREEK, PORTSMOUTH, VA):

- 1. THE MERIDIAN SOURCE IS BASED ON VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD83 (93)HARN AND COORDINATE VALUES SHOWN HEREON ARE IN U.S. SURVEY FEET.
- -2. THE VERTICAL DATUM IS REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988(NAVD88) AND SHOWN IN
 FEET.
 -3. THIS SURVEY IS BASED ON MAPPING PREPARED BY QUANTUM SPATIAL WITH USING AERIAL PHOTOS TAKEN
- -4.
 THIS SURVEY DOES NOT GUARANTEE THE LOCATION AND/OR EXISTENCE OF ALL UNDERGROUND UTILITIES. PRIOR

 TO CONSTRUCTION OR EXCAVATION, THE CONTRACTOR SHALL CONTACT "MISS UTILITY" OF VIRGINIA AT

 1-800-552-7001 OR 811.

GENERAL SURVEY NOTES:

- 1. ALL TEMPORARY AND PERMANENT EASEMENTS SHOWN, RELATED TO CONSTRUCTION OF THIS PROJECT ARE CITY OF NORFOLK EASEMENTS.
- 2. THE INFORMATION PRESENTED DOES NOT CONSTITUTE A "BOUNDARY SURVEY".
- 3. DEFINITION: DATUR = DEPICTED ACCORDING TO UTILITY RECORDS.

SUGGESTED OVERALL SEQUENCE OF CONSTRUCTION:

THE SEQUENCE OF CONSTRUCTION DETAILED BELOW IS INTENDED AS A GUIDE ONLY, AND SHALL NOT RELIEVE THE CONTRACTOR FROM SUBMITTING HIS OWN SEQUENCE AND SCHEDULE, AS REQUIRED IN GENERAL NOTE #9 (SHEET 3), UNLESS DIRECTED OTHERWISE BY THE OWNER OR ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEQUENCING ALL WORK AND SCHEDULING DETAIL GREATER THAN SPECIFIED HEREIN, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE NUMBER OF WORK CREWS AND EQUIPMENT NECESSARY TO COMPLETE THE PROPOSED WORK WITHIN THE PROJECT DURATION AND SHUTDOWN TIMES ALLOTTED.

THE CONTRACTOR SHALL DETERMINE THE MEANS AND METHODS TO ACCOMMODATE THE EQUIPMENT AND MATERIALS TO MEET THE CONDITIONS NECESSARY TO INSTALL THE DESIGNATED FACILITIES AND MAINTAIN CLEARANCES FROM ALL EXISTING UTILITIES AS SHOWN IN THE PLANS OR ENCOUNTERED IN THE FIELD, INCLUDING PROTECTION OF EXISTING WATER MAINS, AT NO ADDITIONAL COST TO THE OWNER. HOWEVER, NO METHOD OTHER THAN HORIZONTAL DIRECTIONAL DRILL (HDD) WILL BE ACCEPTED FOR THE TRENCHLESS CROSSING OF THE NANSEMOND RIVER AND BAINES CREEK.

- THE FOLLOWING SEQUENCE AND MISCELLANEOUS CONSTRUCTION NOTES ARE PROVIDED:
- 1. ATTEND PRE-CONSTRUCTION MEETING.
- 2. RECEIVE NOTICE TO PROCEED.
- 3. NOTIFY ALL ADJACENT PROPERTY OWNERS, IN WRITING, OF IMPENDING CONSTRUCTION AT LEAST 30 DAYS PRIOR TO START OF CONSTRUCTION. NOTIFICATIONS SHALL BE COORDINATED WITH REPRESENTATIVES OF THE CITY NORFOLK AND WITH EACH MUNICIPALITY WHERE LANDSIDE WORK WILL TAKE PLACE.
- 4. INSTALL ALL REQUIRED EROSION AND SEDIMENT CONTROL MEASURES FOR STAGING OF MATERIALS, REMOVAL OF SPOILS, AND CONSTRUCTION OF THE RAW WATER MAINS.
- 5. PERFORM ALL NECESSARY TEST HOLE INVESTIGATIONS AND UTILITY LOCATIONS PRIOR TO COMMENCING OTHER WORK. IF THE LOCATION OF ANY EXISTING UTILITY DIFFERS FROM THAT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND AWAIT DIRECTION BEFORE PROCEEDING. THE CONTRACTOR SHALL BEAR THE FULL RESPONSIBILITY FOR ANY REWORK REQUIRED DUE TO ITS FAILURE TO LOCATE EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT GUARANTEED.
- 6. STAGE ALL MATERIALS REQUIRED TO COMPLETE THE SHUTDOWN AND ISOLATION OF THE EXISTING 36" RAW WATER MAINS AND COORDINATE THE SHUTDOWN OF THE EXISTING MAINS WITH THE CITY OF NORFOLK AS DESCRIBED IN THE CONTRACT DOCUMENTS AND THE GENERAL NOTES (NEXT SHEET).
- 7. STAGE ALL MATERIALS REQUIRED FOR THE CONNECTION OF THE NEW WATER MAINS WITH THE EXISTING WATER MAINS.
- 8. NANSEMOND RIVER WATER MAIN INSTALLATION SHALL PROCEED APPROXIMATELY AS FOLLOWS:
 - A. COMPLETE THE OPEN CUT INSTALLATION OF ALIGNMENT A SHOWN ON SHEET 6.
 - B. COMPLETE THE OPEN CUT INSTALLATION OF ALIGNMENT F SHOWN ON SHEET 10.
 - C. STAGE AND WELD THE 42-INCH STEEL PIPE IN THE AREA SHOWN ON THE WESTERN SIDE OF THE CROSSING. COMPLETELY INSPECT ALL WELDS, AND PRESSURE TEST THE PIPE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 - D. SET UP THE H.D.D. EQUIPMENT ON THE EASTERN SIDE OF THE CROSSING. DEMOLISH EXISTING PICNIC AREA STRUCTURES AND REMOVE TREES (AS REQUIRED) PRIOR TO MOBILIZING EQUIPMENT.
 - E. COMPLETE PILOT HOLE DRILLING.
 - F. COMPLETE PRE-REAMING OF THE BORE HOLE IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED HDD INSTALLATION PLAN.
 - G. PULL THE 42-INCH STEEL PIPE (ALIGNMENT B, SHOWN ON SHEETS 7 AND 8) INTO THE BORE HOLE FROM WEST TO EAST.
 - H. TEST STEEL PIPE HDD SECTION AFTER INSTALLATION.
 - I. ALLOW STEEL PIPE TO "REST" FOR 10-DAYS BEFORE CONNECTING D.I. EXTENSIONS ON EACH SIDE OF THE CROSSING.
 - J. COMPLETE THE OPEN CUT INSTALLATION OF ALIGNMENTS C, D AND E SHOWN ON SHEETS 9 AND 10, INCLUDING THE FLANGED CONNECTIONS TO THE STEEL HDD SECTION.
 - K. COMPLETE ALL PRESSURE TESTING OF THE PROPOSED WATER MAIN.
 - L. REMOVE DESIGNATED SECTION OF EXISTING RAW WATER MAIN. SEE PLAN SHEETS FOR LIMITS OF REMOVAL.
 - M. FILL REMAINING, ABANDONED, RAW WATER MAIN WITH FLOWABLE FILL, WHERE DESIGNATED.

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NO.	DATE	ΒY	REVISION						

BAINES CREEK WATER MAIN INSTALLATION SHALL PROCEED APPROXIMATELY AS FOLLOWS:	AI	BBREVIATIONS	L	EGEND	
COMPLETELY INSPECT ALL WELDS, AND PRESSURE TEST THE PIPE.		DESCRIPTION	DESCRIPTION	EXISTING	PROPOSED
B. SET UP THE HDD EQUIPMENT ON THE WESTERN SIDE OF THE CROSSING.	PED.	CABLE PEDESTAL	UNDERGROUND WATER LINE		
D. COMPLETE PRE-REAMING OF THE BORE HOLE.	CONC. CPP		STORMWATER PIPE	=========	
E. CLOSE POWHATAN AVENUE AND ESTABLISH TRAFFIC DETOUR.	DI	CORRUGATED PLASTIC PIPE DUCTILE IRON	UNDERGROUND ELECTRIC LINE	———— E ————	
F. PULL THE 36-INCH F-PVC PIPE INTO THE BORE HOLE FROM EAST TO WEST.	ELEV.	ELEVATION	OVERHEAD ELECTRIC LINE	OHE	
G. TEST F-PVC PIPE, HDD SECTION AFTER INSTALLATION.	EX./EXIST. F-PVC	EXISTING FUSIBLE POLYVINYL CHLORIDE	UNDERGROUND TELECOMM LINE	T	
 H. ALLOW F-PVC PIPE TO "REST" FOR 10-DAYS BEFORE CONNECTING PVC EXTENSIONS.	FH	FIRE HYDRANT	UNDERGROUND TELEVISION LINE	TV	
 I. COMPLETE THE OPEN CUT, 36-INCH PVC WATER MAIN SECTION ON THE EASTERN AND WESTERN SIDES OF THE	FLNG	FLANGE	UNDERGROUND FIBER OPTIC LINE	FO	
CROSSING. J. COMPLETE ALL PRESSURE TESTING OF THE PROPOSED WATER MAIN.	FO H.D.D.	FIBER OPTIC HORIZONTAL DIRECTIONAL DRILL	UNKNOWN UTILITY	UNK	
K. CONNECT NEW WATER MAIN WITH EXISTING.	HORIZ.	HORIZONTAL	WATER METER	S WM	-
	INV.	INVERT	WATER MANHOLE	(W)	W
WITHIN THE 21 DAYS ALLOCATED FOR SHUT DOWN OF THE EXISTING WATER MAIN, THE CONTRACTOR SHALL COMPLETE ALL WATER MAIN INSTALLATION ASSOCIATED WITH THE SHUT DOWN, ALL RECONNECTIONS, AND ALL ASSOCIATED PRESSURE & LEAKAGE TESTING AT BOTH CROSSINGS.	MH MJ	MANHOLE MECHANICAL JOINT	WATER VALVE	\bowtie wv	\mathbf{X}
RESTORE THE PROJECT SITES TO THEIR ORIGINAL CONDITIONS.	OHE	OVERHEAD ELECTRIC LINE	POWER POLE W/ LIGHT	QO	
REMOVE ALL EROSION AND SEDIMENT CONTROL MEASURES AND PERFORM FINAL CLEAN UP.	OHEC	OVERHEAD ELECTRIC & CABLE LINE	POWER POLE	Ø P∕P#	
COMPLETE SITE INSPECTION WITH THE CITY OF NORFOLK, DEPARTMENT OF UTILITIES, AND CITIES OF PORTSMOUTH	OHET	OVERHEAD ELECTRIC & TELEPHONE LINE	GUY WIRE	\prec	
AND SUFFOLK.	P.E.	POLYETHYLENE	LIGHT POLE		
	PP PROP.	POWER POLE PROPOSED	TELEPHONE PEDESTAL	Т	
	PKOP. PVC	POLYVINYL CHLORIDE	CATV BOX		
	RCP	REINFORCED CONC. PIPE	SAN. SEWER MANOLE	S	
	SCO	SANITARY CLEANOUT	PROPERTY LINE		
	SFMV	SANITARY FORCE MAIN VALVE	PERMANENT EASEMENT		
	STRUC TBM	STRUCTURE TEMPORARY BENCHMARK	TEMPORARY EASEMENT		
	T–PED.	TELEPHONE PEDESTAL	TOE OF SLOPE		
	TEMP.	TEMPORARY	TOP OF BANK		
	TYP.	TYPICAL	OF DITCH/SWALE	· · · ·	
	UP	UTILITY POLE	EDGE OF WATER SIGN		
	VERT. W	VERTICAL WATER MAIN	FLAG POLE	Ч	
	WM	WATER METER	BUSH		
	WP	WITNESS POST	TREE		
	WV	WATER VALVE	BOLLARDS	\odot	
			WITNESS POST	$\overline{\ominus}$	
			PILE	\bigcirc	
			SILT FENCE		SF) XX
			LIMITS OF DISTURBANCE		
			H.D.D. ENTRY/EXIT POINT		$\mathbf{\hat{v}}$
			SOIL BORING		- ⊕ SB−##
			PIPE ABANDONMENT		
					X
			TREE PROTECTION		
					+ A
			CONSTRUCTION ENTRANCE		
					\sim

SCALE HORIZ VERT DATE: <u>S</u> DRAWN E CHECKED APPROVE

OF NORFOLK RTMENT OF UTILITIES ONTICELLO AVENUE FOLK, VIRGINIA 23501 564-6701



Phone (757) 463-8770 • Fax (757) 463-0503 http://www.mbakerintl.com

RIZ: <u>NA</u> RT: <u>NA</u>	PROJECT NO.	CONTRACT DRAWINGS FOR CONSTRUCTION OF RAW WATER MAIN IMPROVEMENTS NANSEMOND RIVER 42-INCH H.D.D. CROSSING	SHEET	
SEPTEMBER 2017	JOB NO.	BAINES CREEK 36-INCH H.D.D. CROSSING		
BY: JLB	810		OF	
ED BY: GDG	CADD FILE	SURVEY NOTES, SEQUENCE OF CONSTRUCTION AND LEGEND	15	
VED BY: RSQ	02-SUR NOTES, SOC		SHEETS	

1. 2.	IN CASE OF EMERGENCIES CONTRACTOR SHALL CONTACT 91 THE CONTRACTOR SHALL NOTIFY THE FOLLOWING, 7 DAYS PI	
Ζ.	A. MISS UTILITY	811
	A. MISS UTILITY B. SUFFOLK DEPARTMENT OF PARKS AND RECREATION	011
		(757)514 7255
	CONTACT: HELEN GABRIEL	(757)514–7255
	C. PORTSMOUTH SCHOOL SYSTEM CONTACT THOMAS MARSH	(757)393-5147
3.	THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE AFFECTED	
J.	UTILITIES ARE DAMAGED DURING CONSTRUCTION:	ont and other owner in the event that and
	A. CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC UTILITIES	(757)393-8561
	B. CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS	(757)393-8592
	C. CITY OF SUFFOLK DEPARTMENT OF PUBLIC UTILITIES	(757)514–7028
	D. CITY OF SUFFOLK DEPARTMENT OF PUBLIC WORKS	(757)517–7725
	E. COX COMMUNICATIONS	(757)222–8902
	F. CHARTER COMMUNICATIONS	(757)735–4007
	G. DOMINION VIRGINIA POWER	(888)667-3000
	H. VERIZON	(877)562–2253
	I. VIRGINIA NATURAL GAS	(877)572-3342
4.	THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITES PRIO	
5.	BORING LOCATIONS ARE SHOWN ON SHEETS.	
5.	FIELD ENGINEERING INFORMATION: ALL REQUESTS FOR INSPE	CTIONS, AND FIFLD CONSTRUCTION INFORMATION SHO
	BE DIRECTED TO THE ENGINEER AND THE CITY'S CHIEF OF	•
7.	PRIOR TO THE SCHEDULING OF A PRE-CONSTRUCTION CONF DETAILED TRAFFIC CONTROL PLAN OF THE BAINES CREEK PR PORTSMOUTH, DIVISION OF TRAFFIC ENGINEERING AND DEPAR AS WELL AS ALL TRAFFIC CONTROL DEVICES UTILIZED ON TH ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) FOR STRE A REPRODUCIBLE DRAWING SHALL BE SUBMITTED TO THE FIE	ROJECT SITE(S) FOR REVIEW BY THE CITY OF RTMENT OF PUBLIC WORKS. THE TRAFFIC CONTROL P HE PROJECT MUST COMPLY WITH THE "FEDERAL MANN EETS AND HIGHWAYS. FOLLOWING APPROVAL OF THE
8.	SUBMITTALS ON MATERIALS FOR THIS PROJECT SHALL BE AF CONSTRUCTION. THE CONTRACTOR SHALL USE APPROVED PR	
9.	A CONSTRUCTION SCHEDULE SHALL BE SUBMITTED TO THE	
	PRE-CONSTRUCTION CONFERENCE.	LILL, FRIEND TO THE CONEDUCINO OF THE
10.	THE CONTRACTOR SHALL CONFORM TO THE "OVERHEAD HIGH CONTACT THE NECESSARY AUTHORITIES PRIOR TO START OF	
11.	THE CONTRACTOR SHALL NOTIFY THE UTILITIES INSPECTOR O	
1 1.	INFRASTRUCTURE.	IN THIST IDENTIFICATION OF CONFLICT WITH STORMWA
	OF UTILITIES, CALL 'MISS UTILITY' AT 811 FOR: WATER & SEWER HRSD VERIZON TELEPHONE DOMINION VA. POWER VA. NATURAL GAS TRAFFIC CONTROLS STORM DRAIN	
13.	COX CABLE TV THE CONTRACTOR SHALL BE REQUIRED AND AGREES TO COM UNDERGROUND UTILITY DAMAGE PREVENTION ACT" (SECTION AMENDED) AND HEREBY AGREES TO HOLD THE OWNER HARM NATURE WHATSOEVER ARISING OUT OF THE CONTRACTOR'S F ACT.	56-265.14 et seq., CODE OF VIRGINIA, 1950, AS ILESS AGAINST ANY LOSS, DAMAGES, OR CLAIMS OF
14.	THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS UNINTERRUPTED SERVICE, ANY DAMAGE DONE TO THE UTILITI CONTRACTOR'S EXPENSE.	
15.	EXISTING UTILITY LOCATIONS SHOWN ARE BASED ON AVAILABI GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR CONSTRUCTION.	•
6.	THE CONTRACTOR SHALL HAVE A SET OF PROJECT DRAWING ADDITION, THE CONTRACTOR SHALL HAVE IN HIS POSSESSION	
17.	THE OWNER WILL ACCEPT SAND AND OR STONE TICKETS ON	
	SITE. TICKETS WILL NOT BE ACCEPTED WITH MONTHLY PAY E	
18.	THE CONTRACTOR SHALL VERIFY TYPE OF MATERIAL, OUTSIDE CONNECTED TO, IN ORDER TO INSURE PROPER FITTINGS ARE CONNECTIONS. ALL NECESSARY FITTINGS NEEDED TO MAKE O INSPECTOR PRIOR TO ANY CONNECTION WORK.	E AVAILABLE AND TO MINIMIZE OUT OF SERVICE TIME
19.	ALL TEES, BENDS, PLUGS AND VALVES SHALL BE PROVIDED TO PROPER LENGTH. PLUGS INSTALLED ON ACTIVE WATER M BE ABANDONED SHALL BE CAPPED WATER—TIGHT.	
20.	NO PIPE FOLD-INS SHALL BE USED ON WATER MAINS. SLEE	VES WILL BE USED.
21.	NEOPRENE PADS SHALL BE USED BETWEEN PROPOSED MAIN	
	VERTICAL CLEARANCE IS LESS THAN SIX (6) INCHES.	
22.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING I	
23.	THE CONTRACTOR SHALL REPLACE ALL DAMAGED OR REMOVE BE A MINIMUM OF 1" COLD MIX OVER COMPACTED SUBGRAD PERMANENT SIDEWALK REPLACEMENT SHALL BE IN ACCORDAN SUFFOLK STANDARDS AND SHALL BE REPLACED TO THE NEA FOR TEMPORARY SIDEWALKS OR DRIVEWAYS.	DE AND SLOPED TO PROVIDE POSITIVE DRAINAGE. THE NCE WITH CURRENT CITY OF PORTSMOUTH AND CITY
24.	THE CONTRACTOR SHALL PROVIDE TEMPORARY DRIVEWAY AND OWNERS DURING PERIODS IN THE BAINES CREEK PROJECT A PROGRESS. THE CONTRACTOR SHALL OBTAIN DRIVEWAY PERM FOR ALL REQUIRED DRIVEWAY WORK.	REA WHEN CONSTRUCTION IN THE AREA IS NOT IN
		NORFOLK

<u>GENERAL NOTES (CONTINUED)</u>:

- 25. THE CONTRACTOR SHALL NOTE THAT THERE MAY BE OTHER CONSTRUCTION IN PROJECT AREAS. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER AND ANY OTHER CONTRACTORS OR UTILITY OWNERS TO PREVENT DELAYS TO EITHER PROJECT. IF THE CONTRACTOR NEEDS TO PERFORM WORK OUT OF SEQUENCE OR ADJUST HIS SCHEDULE TO ACCOMMODATE OTHER WORK IN THE PROJECT AREA, IT SHALL NOT BE THE BASIS OF A CLAIM FOR DELAY AGAINST THE OWNER.
- 26. FLOWABLE FILL IS NOT AN APPROVED MATERIAL FOR USE FOR BACKFILL WITHOUT PRIOR APPROVAL. THE SELECT MATERIAL AND NO. 21A STONE WILL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS. BACKFILL AROUND AND ABOVE THE PIPE SHALL BE SELECT MATERIAL (SECTION 207) – TYPE I AND 20 CBR. FOR THE SUB BASE MATERIAL USE 6" MIN. VDOT NO. 21A STONE IN ACCORDANCE TO SECTION 208.

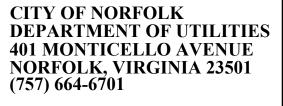
SHEETING:

- 27. THE CONTRACTOR SHALL USE VERTICAL TIGHT SHEETING FOR CUTS FIVE FEET OR DEEPER, UNLESS PERMISSION TO DO OTHERWISE IS GRANTED BY THE ENGINEER. SHEETING SHALL ALSO BE USED FOR CUTS BEHIND CURBS OR SIDEWALKS, AND BESIDE ROADWAYS FOR CUTS FIVE FEET OR LESS, AS REQUIRED BY THE ENGINEER. SHEETING SHALL BE USED TO PROTECT EXISTING UTILITIES OR OTHER STRUCTURES SUCH AS DRAINS, PIERS, POWER AND TELEPHONE POLES, ETC. SHEETING, WHEN USED, WILL BE DRIVEN 15 INCHES OR MORE BELOW PIPE INVERT, AND TOP OF SHEETING CAN NOT BE LESS THAN EXISTING GROUND ELEVATIONS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- WORK WITHIN THE PAVEMENT:
- 28. ALL AREAS DISTURBED BY CONSTRUCTION OR MOBILIZATION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, UNLESS SPECIFIED OTHERWISE. TEMPORARY PAVEMENT CUTS SHALL BE MAINTAINED WITH 6" OF VDOT NO. 21A STONE OR RECYCLED ASPHALT PAVEMENT (RAP). ALL MATERIALS DESIGNATED AS TEMPORARY SHALL BE COMPACTED AND WATERED ON A DAILY BASIS TO CONTROL DUST.
- 29. ALL ROADWAY CUTS SHALL BE BACKFILLED ONLY WITH SUITABLE SUBBASE MATERIAL, AND MECHANICALLY TAMPED IN NO MORE THAN 6" LIFTS. BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH SECTION 308 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS, LATEST EDITION. THE OWNER MAY, AT ANY TIME, REQUIRE TESTING TO ENSURE COMPLIANCE WITH THE SPECIFICATIONS OF THIS CONTRACT. ALL TESTS WILL BE CONDUCTED BY A RECOGNIZED TESTING LABORATORY SELECTED BY THE OWNER, QUALIFIED IN THE FIELD OF THE MATERIALS TO BE TESTED. ALL TESTS WILL BE CONDUCTED IN ACCORDANCE WITH VDOT'S "MANUAL FOR VIRGINIA TEST METHODS" (CURRENT EDITION AS REVISED). PAYMENT FOR ALL TESTS WILL BE IN ACCORDANCE WITH THE FOLLOWING:
 - A) THE COST OF ALL TESTS FAILING TO MEET THE MINIMUM REQUIREMENTS WILL BE BORNE BY THE CONTRACTOR.
 - B) THE COST OF ALL TESTS THAT EITHER MEET OR EXCEED THE MINIMUM REQUIREMENTS SHALL BE BORNE BY THE OWNER.
 - C) RESIDENTIAL STREETS AVERAGE DAILY TRAFFIC UNDER 5,000 VEHICLES PER DAY: THESE ARE THOSE STREETS AND CUL-DE-SACS WHICH PROVIDE DIRECT ACCESS TO ADJACENT PROPERTY OR INDIVIDUAL HOMES, NORMALLY TWO ALTERNATING LANES IN A 50' RIGHT-OF-WAY. CONSTRUCTION HOURS SHALL BE LIMITED TO 8:00 A.M. TO 4:00 P.M., TO BE SENSITIVE TO NOISE IMPACTS ON SURROUNDING PROPERTIES (EMERGENCY WORK TO RESTORE SERVICES EXCLUDED). AT LEAST A SINGLE LANE SHALL BE PROVIDED FOR TWO-WAY TRAFFIC WITH A FLAGMAN AVAILABLE FOR CONTROL, UNLESS OTHERWISE AUTHORIZED BY THE OWNER.
 - D) EXCAVATIONS IN RESIDENTIAL STREETS SHALL BE PROTECTED EACH NIGHT; ALL UTILITY CUTS SHALL BE MAINTAINED DAILY WITH A 6-INCH THICK LAYER OF NO. 21A STONE. THE PERMANENT ASPHALT REPAIR SHALL BE MADE AS SOON AS POSSIBLE BUT NO LATER THAN FIVE (5) DAYS AFTER WORK COMPLETION FOR MINOR PROJECTS AND WITHIN THIRTY (30) CALENDAR DAYS FOR MAJOR PROJECTS. WHEN NOTIFIED BY THE OWNER OF AN UNSAFE OPENING, THE RESPONSIBLE PARTY SHALL RESPOND AND REPAIR SAID PATCH WITHIN FOUR (4) HOURS.
- 31. THE OWNER RESERVES THE RIGHT TO EFFECT ANY REQUIRED REPAIRS, AND WARRANT FOR THE COLLECTION FOR ALL ASSOCIATED COSTS, WHERE NECESSITATED BY EMERGENCY CONDITIONS.
- 32. WHEN THE CONTRACTOR'S WORK REQUIRES THE SAW CUTTING AND/OR PARTIAL DEMOLITION AND/OR REMOVAL OF ANY SECTION OF AN EXISTING APRON OR SIDEWALK, THE CONTRACTOR WILL BE REQUIRED TO REMOVE SAID EXISTING APRON OR SIDEWALK AND REPLACE IT WITH A NEW MONOLITHIC APRON OR SIDEWALK. THE SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT. ALL CONCRETE IS TO BE SAW CUT. NO PATCHING WILL BE ALLOWED. COMMERCIAL APRONS SHALL BE REPLACED WITH AN APPROVED COMMERCIAL APRON. RESIDENTIAL APRONS SHALL BE REPLACED WITH AN APPROVED COMMERCIAL BE REPLACED WITH AN APPROVED RESIDENTIAL APRON. SIDEWALKS SHALL BE REPLACED WITH AN APPROVED RESIDENTIAL APRON. SIDEWALKS SHALL BE REPLACED WITH AN APPROVED SIDEWALK DETAIL. THE EXISTING, NON–STANDARD RESIDENTIAL DRIVEWAY APRONS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH A 10–INCH MINIMUM THICKNESS OF NO. 21A STONE, MATCHING THE ENTRANCE'S PRE-CONSTRUCTION GEOMETRY.
- 33. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT DETAILED MAINTENANCE OF TRAFFIC PLANS (MOT) TO THE CITY OF PORTSMOUTH TO WORK IN THE RIGHT-OF-WAY. THE MOT SHALL BE A DRAWING OR AERIAL PHOTO WITH SITE SPECIFIC DETAILS. THESE SHALL INCLUDE (BUT NOT BE LIMITED TO): TRAFFIC SIGNS, DIRECTIONAL SIGNS, DESTINATION SIGNAGE, CHANNELIZING DEVICES, WATER-FILLED BARRIERS, PORTABLE MESSAGE BOARDS WITH MESSAGES TO BE DISPLAYED AND TIMES AND DURATIONS OF DISPLAYED MESSAGES. ADDITIONALLY, THE MOT SHALL DISPLAY THE EXACT LOCATION OF ALL SIGNS AND/OR DEVICES INCLUDING SPACING FOR EACH SIGN AND/OR DEVICE, SPACING BEING APPROPRIATE FOR THE WORK ZONE LOCATION AND POSTED SPEED LIMITS. ALL MOT PLANS SHALL CONFORM TO THE CURRENT ISSUE OF "THE VIRGINIA WORK AREA PROTECTION MANUAL". CONTRACTORS SHALL CONSIDER THESE ITEMS WHEN BIDDING PROJECT FOR CONSTRUCTION.
- 34. ALL MISS UTILITY MARKINGS IN THE RIGHT-OF-WAY ARE REQUIRED TO BE ERADICATED AT THE COMPLETION OF THE PROJECT.
- 35. THE OWNER RESERVES THE RIGHT TO STOP WORK ON THE PROJECT IF THE SITE IS NOT BEING KEPT CLEAN AND PROPERLY MAINTAINED.
- 36. CLAIMS FOR DELAY TIME-ONLY EQUIPMENT WHICH IS BEING USED ON A DAILY BASIS CAN BE INCLUDED ON THE CONTRACTOR'S CLAIM FOR DELAY.
- 37. AN UP TO DATE AS-BUILT AND PROGRESS SCHEDULE SHALL ACCOMPANY THE CONTRACTOR'S MONTHLY APPLICATION FOR PAYMENT. IF THESE ITEMS ARE NOT INCLUDED WITH THE INVOICE, THE INVOICE SHALL BE IMMEDIATELY RETURNED TO THE CONTRACTOR.
- 38. ALL MATERIALS PURCHASED FOR THIS PROJECT SHALL BE NEW AND HAVE BEEN MANUFACTURED WITHIN TWO (2) YEARS OF THE DATE WHEN THE CONTRACT WAS EXECUTED.
- 39. ALL CURBS, SIDEWALKS, AND CONCRETE APRONS, WHICH ARE REMOVED, SHALL BE REPLACED TO THE NEAREST JOINT.
 40. THE CONTRACTOR'S MONTHLY INVOICES SHALL BE REVIEWED BY THE OWNER'S INSPECTOR AND CONTRACTOR'S
- SUPERINTENDENT PRIOR TO SUBMISSION.
- 41. EXCESS EXCAVATED MATERIAL SHALL NOT BE PLACED IN THE RIGHT-OF-WAY. IT SHALL BE REMOVED FROM THE SITE, DAILY.
- 42. PROJECT SPECIFIC HOST CITY CONTACTS:

1.	HELEN GABRIEL –	SUFFOLK DEPARTMENT	OF PARKS AND RECREATION	(757) 514-7255

2. THOMAS MARSH - PORTSMOUTH CITY SCHOOLS

(757) 393–5147





272 Bendix Road, Suite 400 • Virginia Beach, VA 23452

Phone (757) 463-8770 • Fax (757) 463-0503 http://www.mbakerintl.com SCALE

IZ: <u>NA</u> RT: <u>NA</u>	PROJECT NO.	CONTRACT DRAWINGS FOR CONSTRUCTION OF RAW WATER MAIN IMPROVEMENTS NANSEMOND RIVER 42-INCH H.D.D. CROSSING	SHEET
SEPTEMBER 2017	JOB NO.	BAINES CREEK 36-INCH H.D.D. CROSSING	
BY: JLB	810		OF
ED BY: GDG	CADD FILE	GENERAL NOTES	15
VED BY: RSQ	03-GEN NOTES		15 SHEETS

<u>CI</u>	<u>TY OF SUFFOLK STANDARD EROSION & SEDIMENT CONTROL NOTES</u>			
1.	THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE EROSION AND SEDIMENT CONTROL MEASURES DURING ALL PHASES OF THE WORK. THE EROSION AND SEDIMENT CONTROLS SHOWN HEREON ARE THE MINIMUM REQUIRED. DEPENDING ON HIS CONSTRUCTION OPERATIONS, THE CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL CONTROLS AS NECESSARY AT THE DIRECTION OF THE CITIES OF PORTSMOUTH AND SUFFOLK INSPECTORS, AT NO ADDITIONAL COST TO THE OWNER.	× ×	OF PORTSM ERAL EROSIO contractor shal staff (393–8529) a pre-construct	N & SE
•	UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE <u>VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION</u> AND OTHER CITY STANDARDS.	ES-2:	SEDIMENT CONTR TO MINIMUM STA SEDIMENT CONTR	OL PRACTIC NDARDS AN OL HANDBC
•	THE CONTRACTOR SHALL APPLY PERMANENT OR TEMPORARY SOIL STABILIZATION TO ALL DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS ESTABLISHED ON A PORTION OF THE SITE. SOIL STABILIZATION MUST ALSO BE APPLIED TO DISTURBED AREAS, WHICH MAY NOT BE AT FINAL GRADE, BUT WHICH WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. SOIL STABILIZATION MEASURES SHALL INCLUDE (BUT NOT BE LIMITED TO) VEGETATIVE ESTABLISHMENT, MULCHING, AND THE EARLY APPLICATION OF GRAVEL BASE	ES-3: ES-4:	AS THE FIRST ST	D SEDIMENT IEP IN CON APPROVED
	MATERIAL ON AREAS TO BE PAVED. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION.	ES-5:		ENCING LAN IESE PLANS S), THE COL
	ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED DAILY BY THE SITE SUPERINTENDENT OR HIS REPRESENTATIVE, AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND CLEANUP OF SEDIMENTATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE BY THE CLOSE OF THE WORKING DAY.	ES-6:	FOR APPROVAL.	R IS RESPO RES NECESS
	SEDIMENT SHALL BE REMOVED FROM PAVED AREAS ON A DAILY BASIS. STOCK PILES OF SOIL AND OTHER ERODIBLE MATERIALS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION FOR STOCKPILES ONSITE AS WELL AS FOR MATERIALS TRANSPORTED FROM THE PROJECT SITE.	ES-7:		AREAS ARE _L TIMES DI NTIL FINAL 1E CITY OF _ BE REMON
	THE CONTRACTOR SHALL MONITOR AND TAKE PRECAUTIONS TO CONTROL DUST, INCLUDING (BUT NOT LIMITED TO) THE USE OF WATER, MULCH AND CONTROL OF CONSTRUCTION SITE TRAFFIC.	ES-8:	PERMANENTLY S	TABILIZED T RING OPER <mark>A</mark>
	THE CONTRACTOR SHALL CLEAN STREETS OF MUD AND DUST AND TAKE WHATEVER MEASURES NECESSARY TO INSURE THAT THE STREETS ARE KEPT IN A CLEAN AND DUST FREE CONDITION AT ALL TIMES.	ES-9:	FILTERING DEVICE THE CONTRACTOF EVERY 2 WEEKS	R SHALL IN
	EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE (OR BOTH), AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT ADJACENT PROPERTIES, WETLANDS, WATERWAYS, OR THE STORM DRAINAGE SYSTEM.	ES 10	EVENT. ANY NEC OF THE EROSION	ESSARY RE
	THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED NECESSARY BY THE CITYS' INSPECTORS.	ES-10 ES-11:	HAS BEEN TRANS : SEEDING OPERAT GRADE OR UPON	SPORTED OF IONS SHALL SUSPENSIO
	TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS UPSTREAM OF THEM ARE STABILIZED. AFTER STABILIZATION IS COMPLETE, WITH THE APPROVAL OF THE CITY'S INSPECTORS, ALL MEASURES SHALL BE REMOVED WITHIN 30 DAYS. TRAPPED SEDIMENT SHALL BE SPREAD AND SEEDED.	ES-12		A SPECIFI AREAS. ETATION SH
	THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN INDIVIDUAL HOLDING A RESPONSIBLE LAND DISTURBER CERTIFICATE IN ACCORDANCE WITH CITIES OF PORTSMOUTH AND SUFFOLK REQUIREMENTS, WHO WILL BE RESPONSIBLE FOR COMPLIANCE WITH CARRYING OUT THE LAND DISTURBING ACTIVITY ON THIS PROJECT. TREE OF LIMBS OVERHANGING THE WATER MAIN LIMITS OF CONSTRUCTION THAT ARE LIKELY TO BE	ES-13	UNTIL THE VEGET EROSION AND MA : THE CONTRACTOR MOVEMENT OF DI TRAFFIC SAFETY	ATURE ENOU R SHALL BE JST FROM I
	EAST SIDE IS LOCATED WITHIN VACANT PROPERTY OWNED BY THE CITY OF SUFFOLK, ADMINISTERED BY THE CITY'S DEPARTMENT OF PARKS AND RECREATION. BOTH SIDES OF THE BAINES CREEK CROSSING ARE LOCATED WITHIN DEVELOPED URBAN AREAS. THE WEST SIDE OF THE CROSSING IS A SCHOOL SITE AND THE EASTERN SIDE IS RESIDENTIAL. ACENT AREAS: AREAS ADJACENT TO THE NANSEMOND RIVER CROSSING ARE AGRICULTURAL.			
	AREAS ADJACENT TO THE BAINES CREEK CROSSING ARE RESIDENTIAL.	ACCES CORRI	-	
1	<u>_S:</u> THE SUBSURFACE CONDITIONS ARE DOCUMENTED IN APPENDIX H OF THE PROJECT MANUAL.		COARSE AGGRE	
2	PROBLEMS. I <u>SION AND SEDIMENT CONTROL MEASURES</u> : EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AS SHOWN ON THE CONTRACT DRAWINGS AND DESCRIBED BELOW.		* MUST EXTEI OF INGRESS OPERATION	
	a. SILT FENCE MAINTENANCE – SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM END RUNS AND UNDERCUTTING. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIERS STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY. SEDIMENT DEPOSITS REMAINING IN PLACE		3" MIN.	
	AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.b. CONSTRUCTION ENTRANCE MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION		S: CONSTRUCTION CCESS WHERE AN	
	WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED TO REMAIN UNDER ANY CIRCUMSTANCES.	TI 2. C Fl	RACKED ONTO HA ONSTRUCTION EN ULL WIDTH OF VE (HERE CONSTRUC)	ARD SURF TRANCE V EHICULAR
	MANENT STABILIZATION: THE SITE WILL BE PERMANENTLY STABILIZED WITH LAWNS AND GRASSES IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.	TI A O'	HE CONTRACTOR RESULT OF CON WNER.	SHALL RI ISTRUCTIC
(<u>RMWATER RUNOFF CONSIDERATION</u> : THE PROJECT SHOULD HAVE MINIMAL IMPACT ON STORMWATER RUN DFF. <u>CULATIONS</u> : NOT REQUIRED.	L(IN	ONTRACTOR SHAL OCATIONS ALONG IGRESS/EGRESS LAN FOR REVIEW,	THE ALIG
	EROSION AND SEDIMENT CONTROL PRACTICES AND DEVICES DESCRIBED HEREON SHALL CONFORM TO THE GINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.	El	NTRANCES AND R OMMENCING CON	REQUIRED
			CE	CONS
				CITY OF
+		AL.		DEPART 401 MON NORFOL
_	N O R F	0		(757) 664

NO. DATE BY

REVISION

SEDIMENT CONTROL NOTES ACT THE CITY OF PORTSMOUTH, EROSION AND SEDIMENT CONTROL EAST 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY SO/THAT ONFERENCE CAN BE SCHEDULED. DICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND RACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING

DS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND ANDBOOK AND THE VIRGINIA EROSION AND SEDIMENT (4VAC50-30).

DIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR CONSTRUCTION. OVED EROSION AND SEDIMENT PLAN SHALL BE MAINTAINED

LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION WINER FOR REVIEW AND TO THE CITY OF PORTSMOUTH

RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION ECESSARY TO PREVENT EROSION AND SEDIMENTATION AS CITY OF PORTSMOUTH'S EROSION CONTROL INSPECTOR.

ARE TO DRAIN TO APPROVED SEDIMENT CONTROL IES DURING LAND DISTURBING ACTIVITIES AND DURING SITE INAL STABILIZATION IS ACHIEVED. AFTER WHICH. UPON IY OF PORTSMOUTH'S EROSION CONTROL INSPECTOR, THE REMOVED. TRAPPED SEDIMENT AND THE DISTURBED SOIL DM THE REMOVAL OF TEMPORARY MEASURES SHALL BE ZED TO PREVENT FURTHER EROSION AND SEDIMENTATION

DPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED

INSPECT ALL EROSION CONTROL MEASURES AT LEAST IMMEDIATELY AFTER EACH RUNOFF-PRODUCING RAINFALL RY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS TROL DEVICES SHALL BE MADE IMMEDIATELY.

RESPONSIBLE FOR THE DAILY REMOVAL OF SEDIMENT THAT TED ONTO A PAVED OR PUBLIC ROAD SNRFACE.

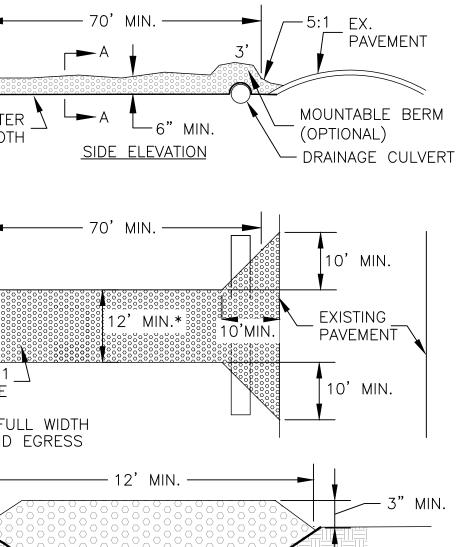
OF POSTS.

STEEL OR WOOD POST-IMBED 3

SHALL BE INITIATED WITHIN 7 DAYS AFTER REACHING FINAL PENSION OF GRADING OPERATIONS FOR ANTICIPATED THAN 14 DAYS OR UPON COMPLETION OF GRADING PECIFIC AREA. SEEDING AND SITE STABILIZATION ARE OVER

ON SHALL NOT BE CONSIDERED ADEQUATELY STABILIZED IS UNIFORM IN HEIGHT, THICK ENOUGH TO PREVENT ENOUGH TO SURVIVE.

ALL BE RESPONSIBLE FOR PREVENTING SURFACE AND AIR ` ROM EXPOSED SOILS WHICH MAY PRESENT HEALTH HAZARDS, BLEMS, OR HARM ANIMAL OR PLANT LIFE.



- FILTER CLOTH <u>SECTION A-A</u>

ANCE WILL BE REQUIRED AT ALL POINTS OF ATERIAL MAY BE SPILLED, DROPPED, WASHED OR SURFACE PUBLIC ROADS. ICE WIDTH SHALL BE 12 FT MINIMUM WIDTH OR

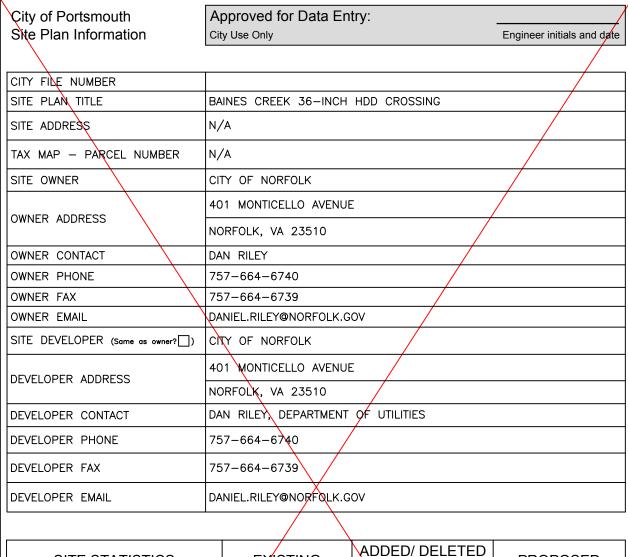
JLAR ACCESS. ENTRANCES ABUT IMPROVED PUBLIC STREETS, L REPAIR ANY DAMAGE TO PUBLIC FACILITIES AS JCTION ACTIVITY AT NOT ADDITIONAL COST TO THE

ROVIDE CONSTRUCTION ENTRANCES AT VARIOUS ALIGNMENT TO PROVIDE PROPER HE WORK AREA. CONTRACTOR SHALL SUBMIT A OWING THE LOCATIONS OF EACH CONSTRUCTION IRED TRAFFIC CONTROL SIGNAGE PRIOR TO

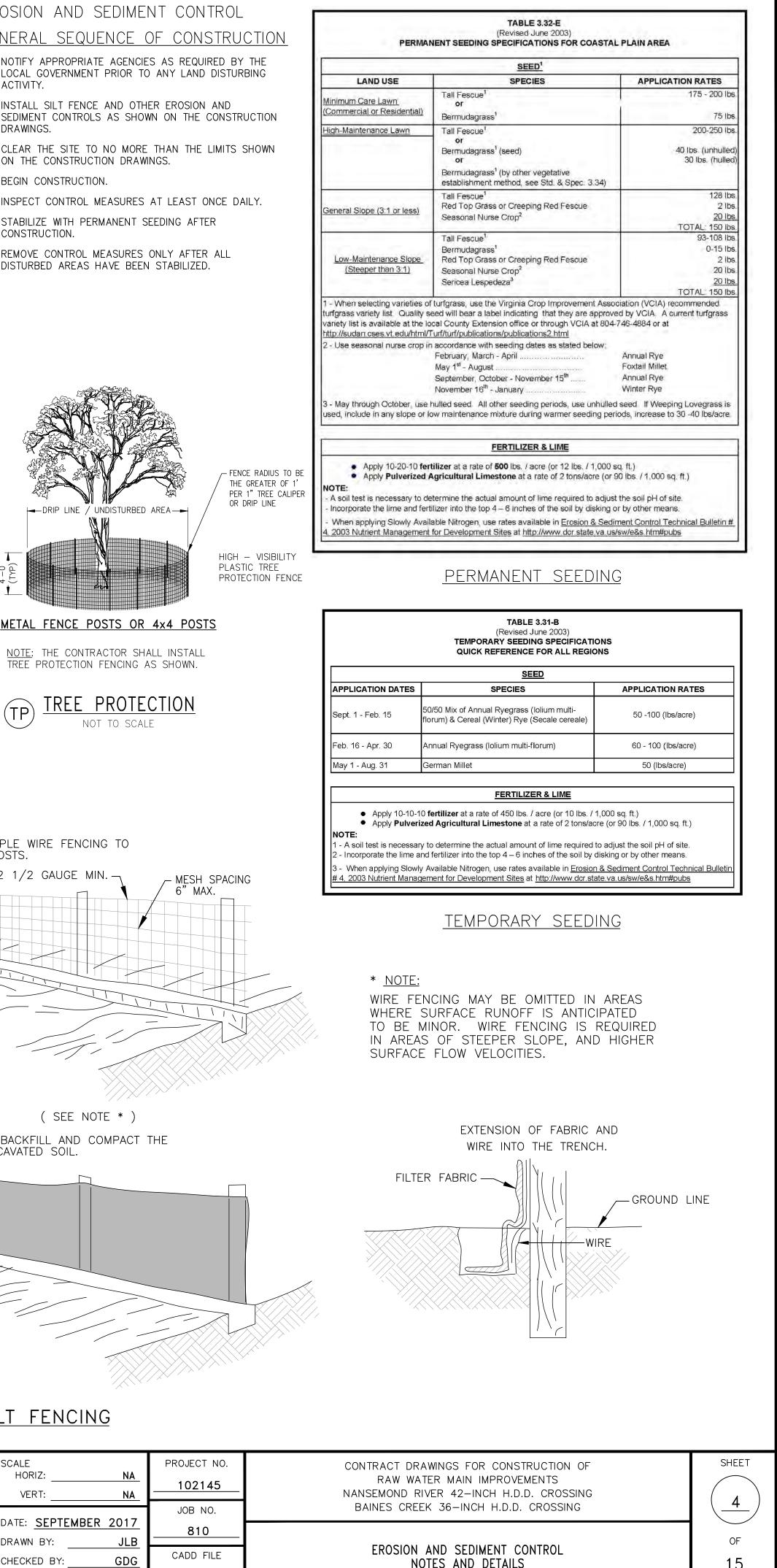
CTION. ONSTRUCTION ENTRANCE

T TO SCALE

OF NORFOLK ARTMENT OF UTILITIES MONTICELLO AVENUE RFOLK, VIRGINIA 23501 664-6701



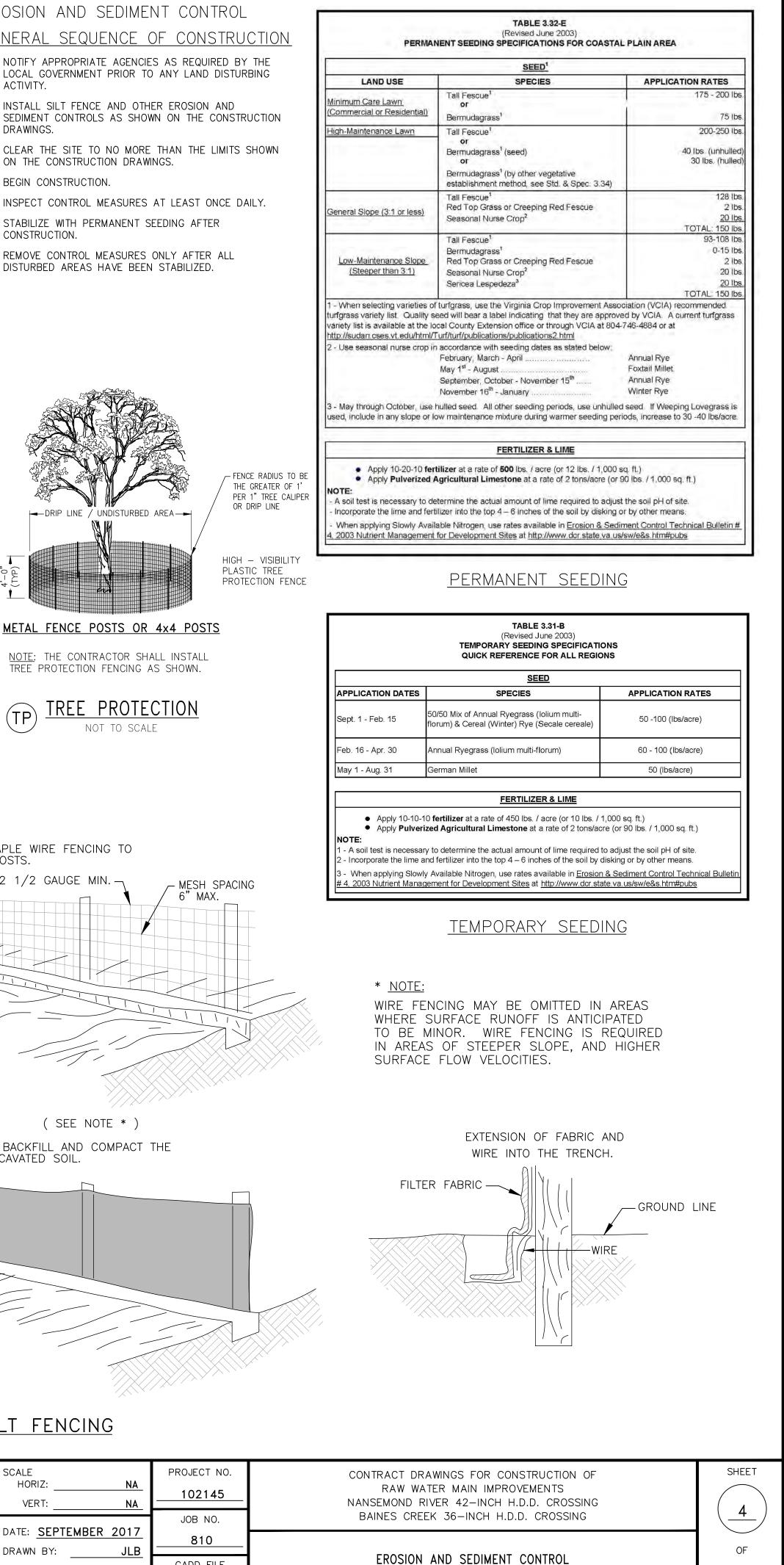
SITE STATISTICS	EXISTING	ADDED/ DELETED (+/-)	PROPOSED
TOTAL DISTURBED AREA ac			
TOTAL SITE AREA ac		0.00	
IMPERVIOUS AREA ag		Q .00	
SEMI-PERVIOUS AREA		0.00	
PERVIOUS AREA ac		0.00	
RIGHT-OF-WAY DISTURBANCE sf			N/A
	BMP # 1	BMP # 2	BMP # 3
BMP TYPE	N/A	N/A	N/A
AREA TREATED BY BMP ac	N/A	N/A	N/A
SURFACE AREA OF BMP ac	N/A	N/A	N/A
STORAGE VOLUME ac-ft	N/A	N/A	NXA
MAX AVERAGE DEPTH ft	N/A	N/A	N/A
QUALITY, QUANTITY, OR BOTH?	N/A	N/A	N/A
SITE IN CBPA? I YES I NO IF Yes: I RMA I RPA I IDA			

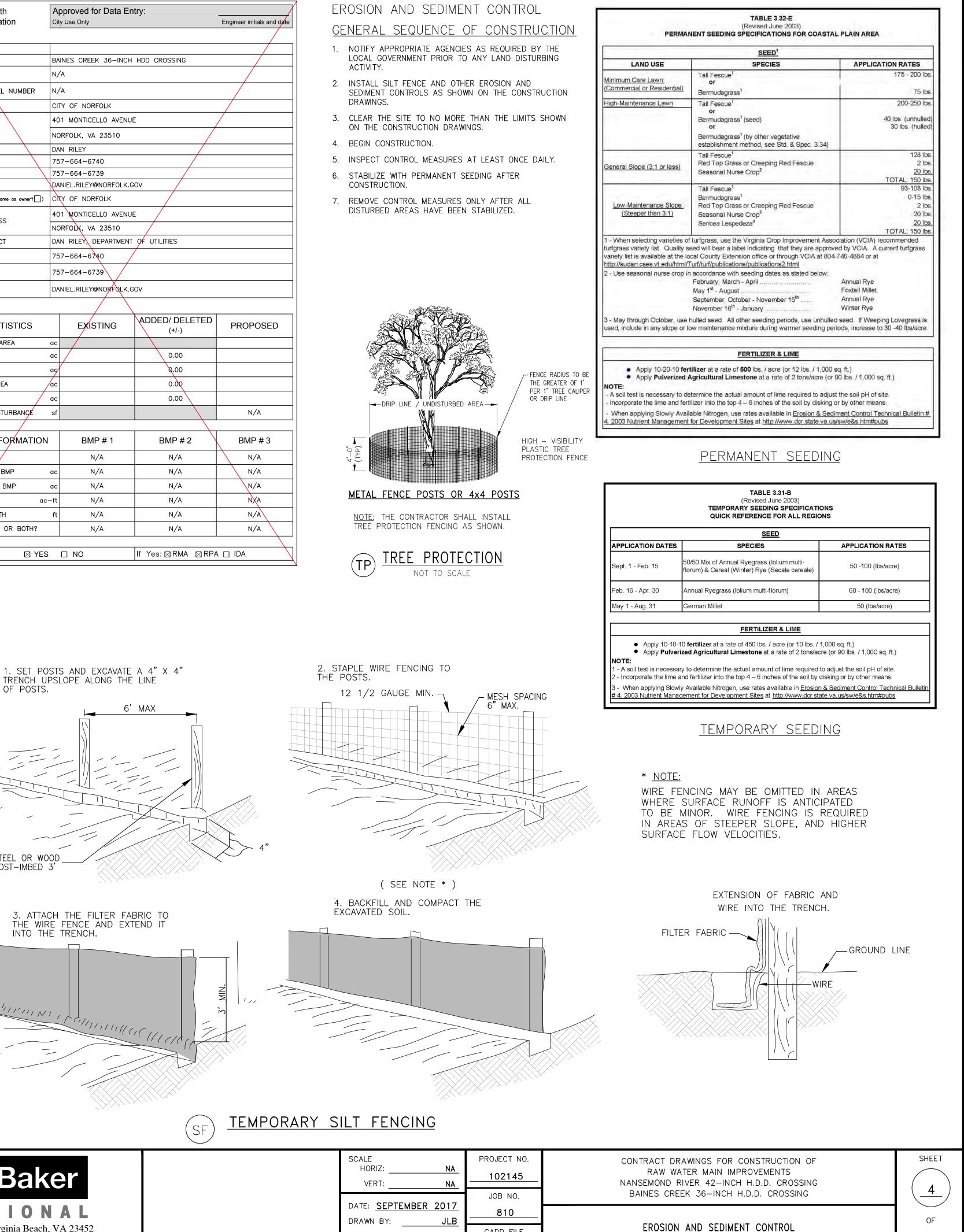


NOTES AND DETAILS

15

SHEETS





04-E&S

RSQ

3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH. MITTINI, FEIMUNICACIA

CHECKED BY APPROVED BY:

Michael Baker NTERNATIONAL 272 Bendix Road, Suite 400 • Virginia Beach, VA 23452 Phone (757) 463-8770 • Fax (757) 463-0503 http://www.mbakerintl.com

