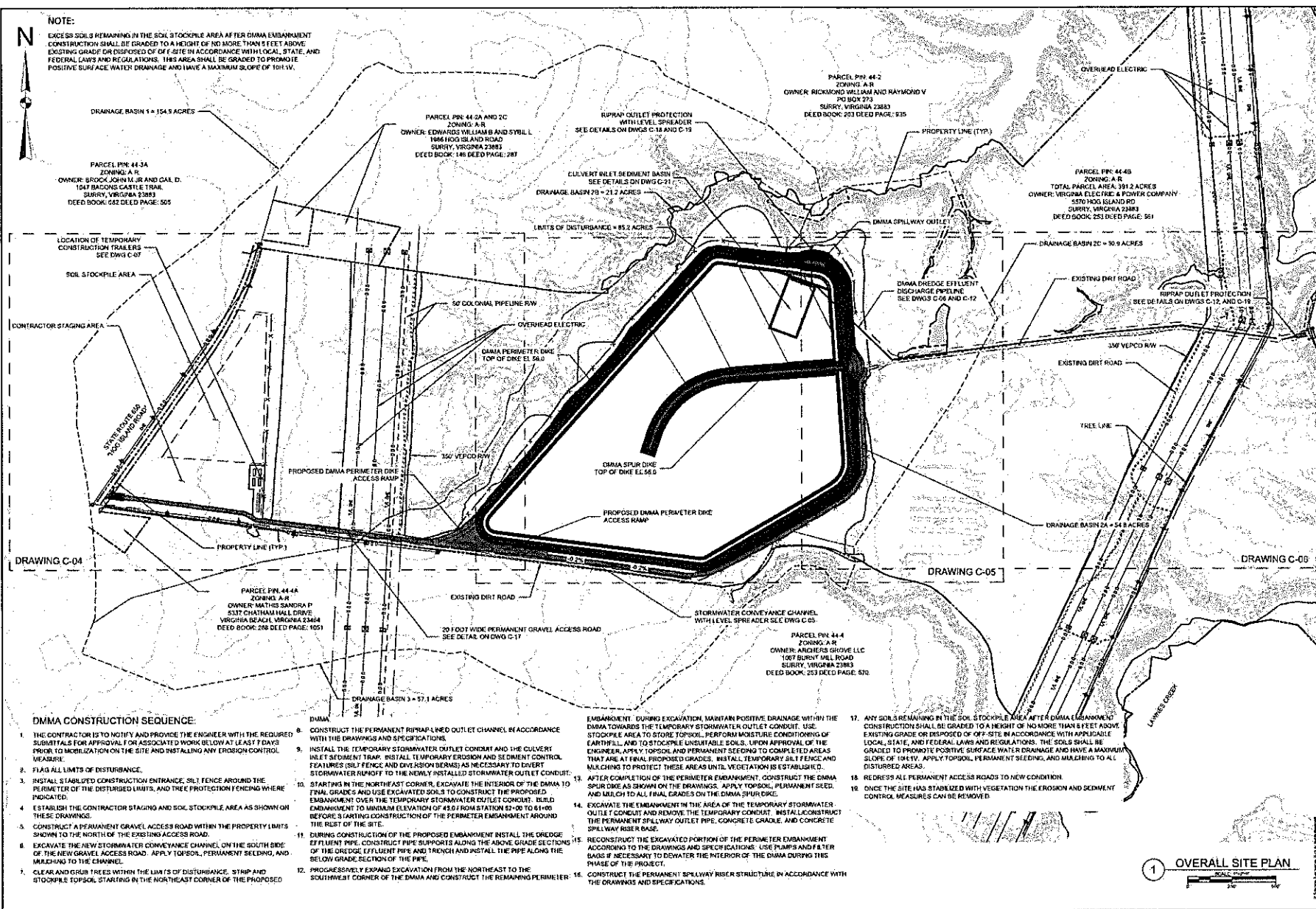


NOTE:

EXCESS SOILS REMAINING IN THE SOIL STOCKPILE AREA AFTER DAMA EMBANKMENT CONSTRUCTION SHALL BE GRADED TO A HEIGHT OF NO MORE THAN 5 FEET ABOVE EXISTING GRADE OR DISPOSED OF OFF-SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. THIS AREA SHALL BE GRADED TO PROMOTE POSITIVE SURFACE WATER DRAINAGE AND HAVE A MAXIMUM SLOPE OF 10:1 V.



- DAMA CONSTRUCTION SEQUENCE:**
1. THE CONTRACTOR IS TO NOTIFY AND PROVIDE THE ENGINEER WITH THE REQUIRED SUBMITTALS FOR APPROVAL 7 DAYS PRIOR TO MOBILIZATION ON THE SITE AND INSTALLING ANY EROSION CONTROL MEASURES.
 2. FLAG ALL LIMITS OF DISTURBANCE.
 3. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE AROUND THE PERIMETER OF THE DISTURBED LIMITS, AND TREE PROTECTION FENCING WHERE INDICATED.
 4. ESTABLISH THE CONTRACTOR STAGING AND SOIL STOCKPILE AREA AS SHOWN ON THESE DRAWINGS.
 5. CONSTRUCT A PERMANENT GRAVEL ACCESS ROAD WITHIN THE PROPERTY LIMITS SHOWN TO THE NORTH OF THE EXISTING ACCESS ROAD.
 6. EXCAVATE THE NEW STORMWATER CONVEYANCE CHANNEL ON THE SOUTH SIDE OF THE NEW GRAVEL ACCESS ROAD. APPLY TOPSOIL, PERMANENT SEEDING, AND MULCHING TO THE CHANNEL.
 7. CLEAR AND GRUB TREES WITHIN THE LIMITS OF DISTURBANCE. STRIP AND STOCKPILE TOPSOIL STARTING IN THE NORTHEAST CORNER OF THE PROPOSED DAMA.
 8. CONSTRUCT THE PERMANENT RIPRAP LINED OUTLET CHANNEL IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
 9. INSTALL THE TEMPORARY STORMWATER OUTLET CONDUIT AND THE CULVERT INLET SEDIMENT TRAP. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES (SILT FENCE AND DIVERSION BARRIERS) AS NECESSARY TO DIVERT STORMWATER RUNOFF TO THE NEWLY INSTALLED STORMWATER OUTLET CONDUIT.
 10. STARTING IN THE NORTHEAST CORNER, EXCAVATE THE INTERIOR OF THE DAMA TO FINAL GRADES AND USE EXCAVATED SOILS TO CONSTRUCT THE PROPOSED EMBANKMENT OVER THE TEMPORARY STORMWATER OUTLET CONDUIT. BUILD EMBANKMENT TO MINIMUM ELEVATION OF 48.0 FROM STATION 81+00 TO 81+00 BEFORE STARTING CONSTRUCTION OF THE PERIMETER EMBANKMENT AROUND THE REST OF THE SITE.
 11. DURING CONSTRUCTION OF THE PROPOSED EMBANKMENT INSTALL THE DREDGE EFFLUENT PIPE. CONSTRUCT PIPE SUPPORTS ALONG THE ABOVE GRADE SECTIONS OF THE DREDGE EFFLUENT PIPE AND TRENCH AND INSTALL THE PIPE ALONG THE BELOW GRADE SECTION OF THE PIPE.
 12. PROGRESSIVELY EXPAND EXCAVATION FROM THE NORTHEAST TO THE SOUTHWEST CORNER OF THE DAMA AND CONSTRUCT THE REMAINING PERIMETER EMBANKMENT.
 13. AFTER COMPLETION OF THE PERIMETER EMBANKMENT, CONSTRUCT THE DAMA SPUR DIKE AS SHOWN ON THE DRAWINGS. APPLY TOPSOIL, PERMANENT SEED, AND MULCH TO ALL FINAL GRADES ON THE DAMA SPUR DIKE.
 14. EXCAVATE THE EMBANKMENT IN THE AREA OF THE TEMPORARY STORMWATER OUTLET CONDUIT AND REMOVE THE TEMPORARY CONDUIT. INSTALL CONSTRUCT THE PERMANENT SPILLWAY OUTLET PIPE, CONCRETE GRADE, AND CONCRETE SPILLWAY RISER BARGE.
 15. RECONSTRUCT THE EXCAVATED PORTION OF THE PERIMETER EMBANKMENT ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. USE PUMPS AND FILTER BAGS IF NECESSARY TO DEWATER THE INTERIOR OF THE DAMA DURING THIS PHASE OF THE PROJECT.
 16. CONSTRUCT THE PERMANENT SPILLWAY RISER STRUCTURE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
 17. ANY SOILS REMAINING IN THE SOIL STOCKPILE AREA AFTER DAMA EMBANKMENT CONSTRUCTION SHALL BE GRADED TO A HEIGHT OF NO MORE THAN 5 FEET ABOVE EXISTING GRADE OR DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. THE SOILS SHALL BE GRADED TO PROMOTE POSITIVE SURFACE WATER DRAINAGE AND HAVE A MAXIMUM SLOPE OF 10:1 V. APPLY TOPSOIL, PERMANENT SEEDING, AND MULCHING TO ALL DISTURBED AREAS.
 18. REDRESS ALL PERMANENT ACCESS ROADS TO NEW CONDITION.
 19. ONCE THE SITE HAS STABILIZED WITH VEGETATION THE EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED.

1 OVERALL SITE PLAN

DATE	
DESIGNED BY	
CHECKED BY	
IN CHARGE	
PROJECT NO.	18C21018-01
DRAWING NO.	C-02
SHEET	4 OF 24
OVERALL SITE EROSION AND SEDIMENT CONTROL PLAN	
SURREY POWER STATION DREDGE MATERIAL MANAGEMENT AREA (DAMA) VIRGINIA ELECTRIC AND POWER COMPANY SURREY COUNTY, VIRGINIA	
JONATHAN M. PITTMAN, PE PROFESSIONAL ENGINEER	

EROSION & SEDIMENT CONTROL LEGEND

NO.	TITLE	KEY	SYMBOL
3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	CE	
3.05	SILT FENCE	SF	
3.09	CHAUVERT PILE PROTECTION	CP	
3.14	TEMPORARY SEDIMENT BASIN	SB	
3.11	STORMWATER CONVEYANCE CHANNEL	SCC	
3.18	OUTLET PROTECTION	OP	
3.19	RERAP	RR	
3.21	LEVEL SPREADER	LS	
3.30	TOPSOILING	TO	
3.31	TEMPORARY SEEDING	TS	
3.32	PERMANENT SEEDING	PS	
3.35	MULCHING	MU	
3.38	TREE PRESERVATION AND PROTECTION	TP	
3.39	DUST CONTROL	DC	

NOTE:

EXPOSED SOILS REMAINING IN THE SOIL STOCKPILE AREA AFTER DEMA ENVIRONMENT CONSTRUCTION SHALL BE GRADED TO A HEIGHT OF NO MORE THAN 5 FEET ABOVE EXISTING GRADE OR DISPOSED OF OFF-SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. THIS AREA SHALL BE GRADED TO PROMOTE POSITIVE SURFACE WATER DRAINAGE AND HAVE A MAXIMUM SLOPE OF 10% IV.

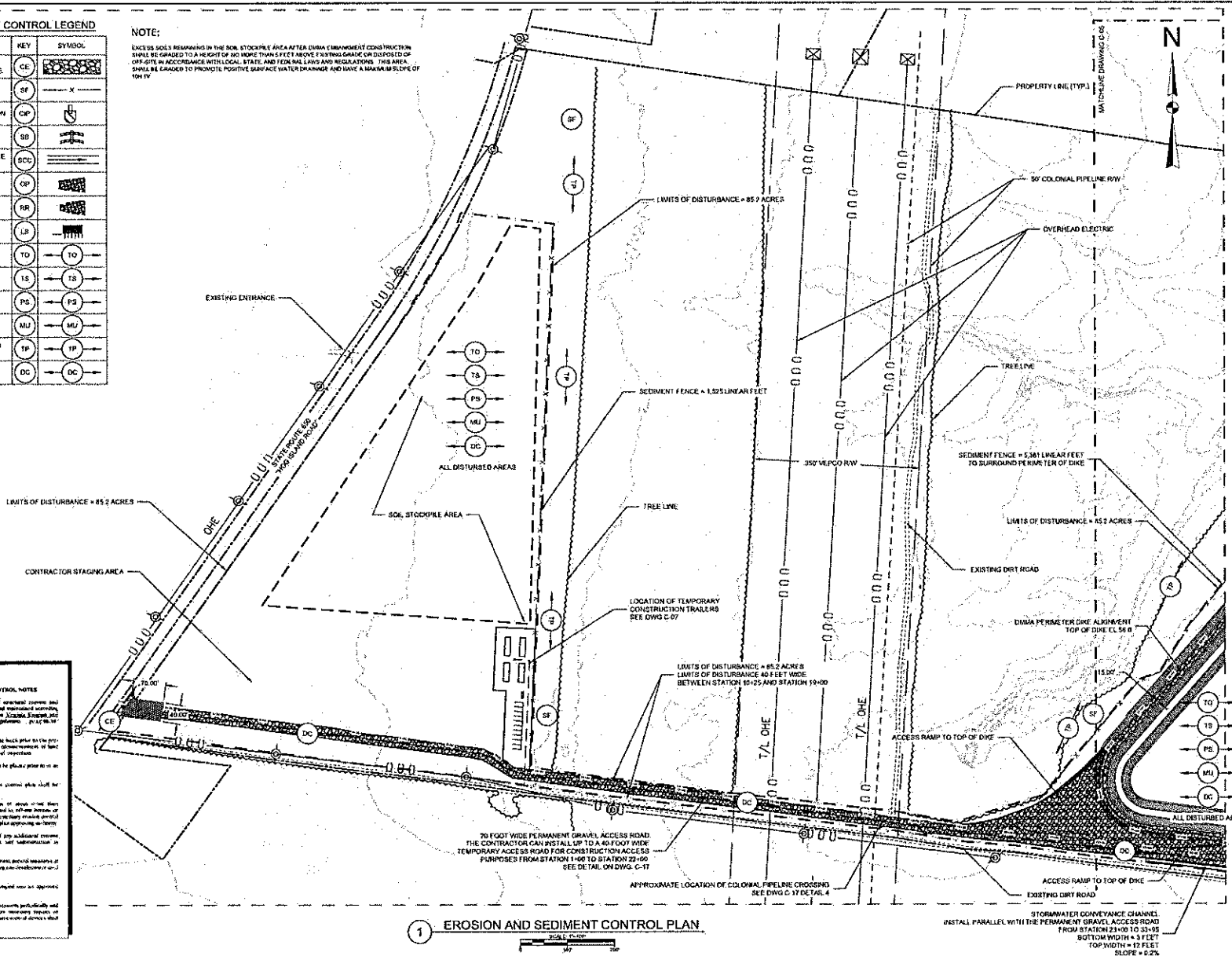
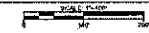


TABLE 6.1
GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. These sediment, siltation, soil retention and erosion control measures and sediment control practices will be constructed and maintained according to minimum standards and requirements of the Virginia Coastal and Estuarine Study Act, and Virginia Department of Environmental Quality and Federal Clean Water Act.
2. The plan approved hereby shall be modified and kept up-to-date as the project progresses, and any such changes shall be placed prior to or at the time of construction.
3. All erosion and sediment control measures shall be placed prior to or at the time of construction.
4. A copy of the approved erosion and sediment control plan shall be maintained on the job at all times.
5. Prior to commencing final clearing activities of areas to be excavated or where pile loading, but not limited to, where loading of water tanks, the contractor shall submit a complete erosion control plan to the owner for review and approval by the plan approving authority.
6. The contractor is responsible for notification of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the plan approving authority.
7. All disturbed areas are to be stabilized with sod or seedlings of an approved species as soon as possible.
8. During dewatering operations, water will be pumped over an approved dewatering device.
9. The contractor shall inspect all erosion control measures periodically and when work is completed, shall remove all erosion control devices or changes to ensure the effectiveness of the erosion control devices shall be made immediately.

1 EROSION AND SEDIMENT CONTROL PLAN

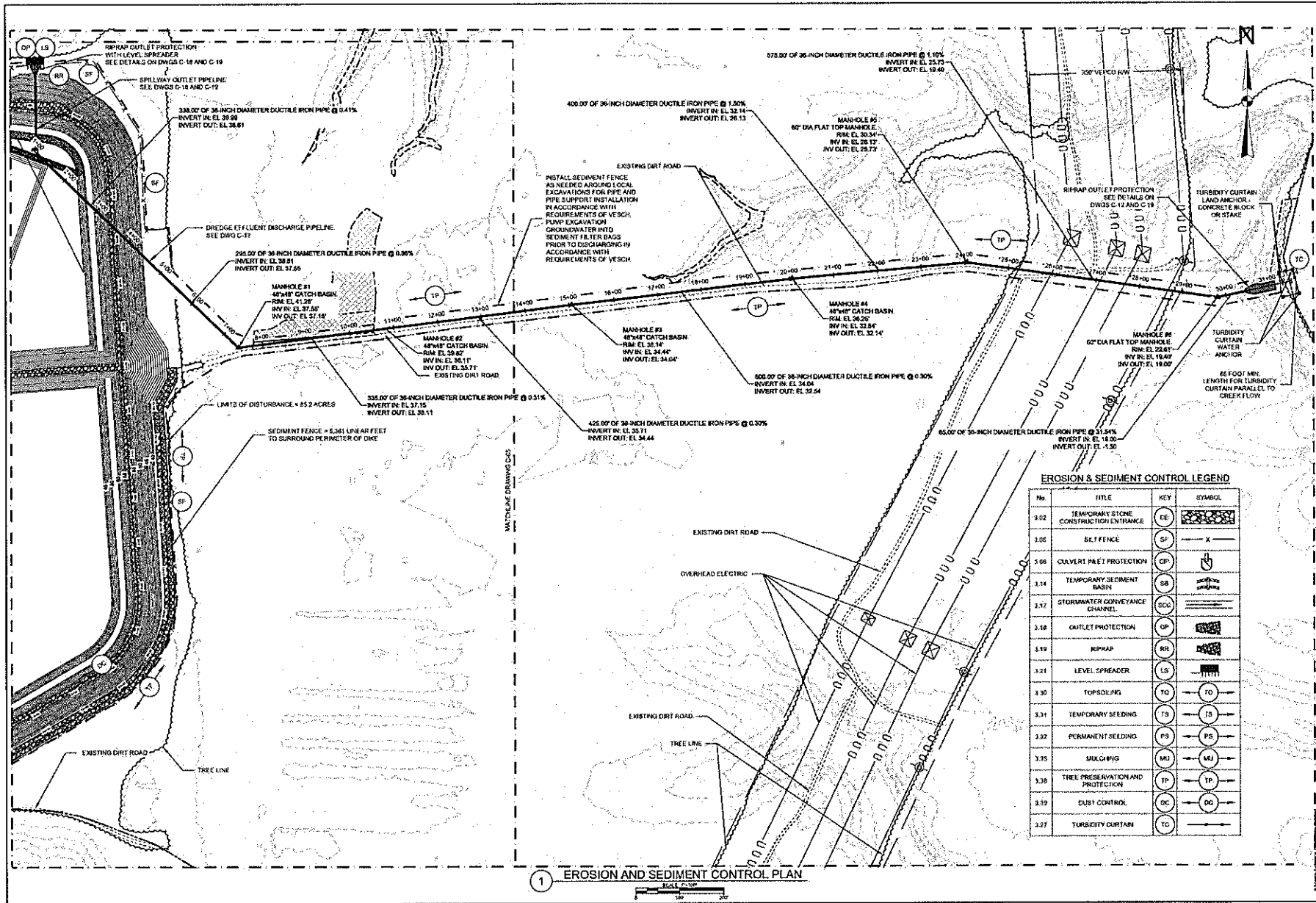


DATE	10/20/17
DRAWING NO.	C-04
SHEET	6 OF 24
PROJECT	SURRY POWER STATION
OWNER	DREDEGE MATERIAL MANAGEMENT AREA (DMA)
DESIGNER	VIRGINIA ELECTRIC AND POWER COMPANY
LOCATION	SURRY COUNTY, VIRGINIA
SCALE	AS SHOWN
DATE	10/20/17
DESIGNER	JONATHAN M. PITTMAN, PE
REGISTERED PROFESSIONAL ENGINEER	NO. 15000
STATE	VIRGINIA
PROJECT	SURRY POWER STATION
OWNER	DREDEGE MATERIAL MANAGEMENT AREA (DMA)
DESIGNER	VIRGINIA ELECTRIC AND POWER COMPANY
LOCATION	SURRY COUNTY, VIRGINIA
SCALE	AS SHOWN
DATE	10/20/17
DESIGNER	JONATHAN M. PITTMAN, PE
REGISTERED PROFESSIONAL ENGINEER	NO. 15000
STATE	VIRGINIA

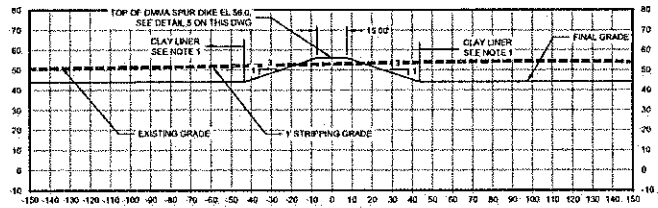
Schnabel ENGINEERING
115, 2nd Street, Suite 200, Chesapeake, VA 23041
757-531-2711 FAX 757-531-2712

Dominion Energy

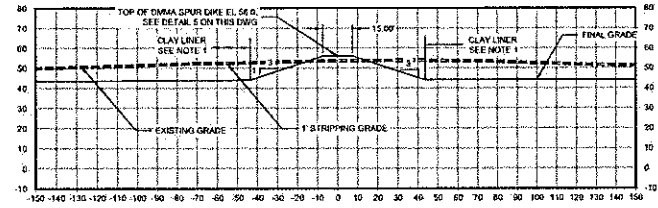
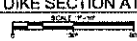
PROJECT: 1627018-01
DATE: OCTOBER 2017
DRAWING NO. C-04
SHEET 6 OF 24



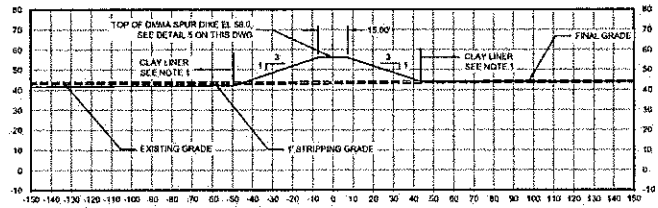
DATE	
SCALE	AS SHOWN
PROJECT NO.	16C21018-01
DRAWING NO.	C-06
SHEET	8 OF 24
DATE	OCTOBER 2017
PROJECT	16C21018-01
DRUDGE MATERIAL MANAGEMENT AREA (DMAA)	
VIRGINIA ELECTRIC AND POWER COMPANY	
SUPPLY CONTRACT, VIRGINIA	
EROSION AND SEDIMENT CONTROL PLAN - SHEET 3	
Schnabel ENGINEERING	
123 Oak Ridge Drive, Charlottesville, VA 22902 617-521-2100 / 617-521-2101 / 617-521-2102	
Jonathan M. Pittman, PE	
REGISTERED PROFESSIONAL ENGINEER	
STATE	VIRGINIA
NO.	1000000000
DATE	



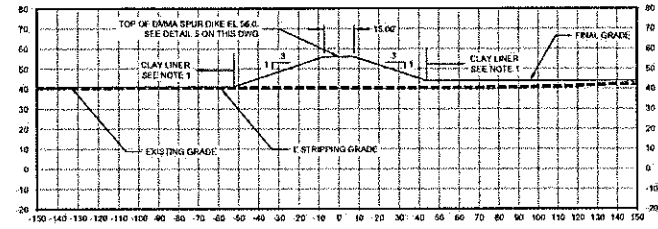
1 DMMA SPUR DIKE SECTION AT STATION 2+00



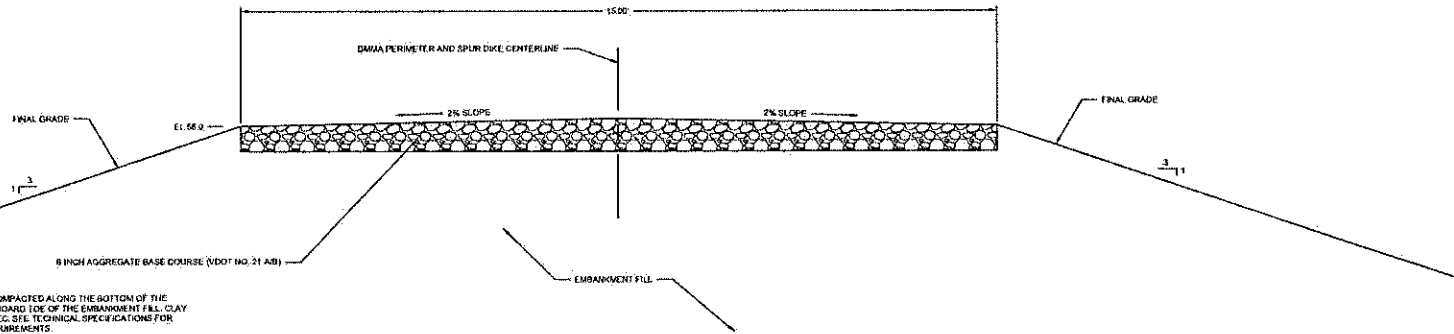
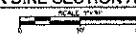
2 DMMA SPUR DIKE SECTION AT STATION 5+00



3 DMMA SPUR DIKE SECTION AT STATION 9+00



4 DMMA SPUR DIKE SECTION AT STATION 13+00



5 TOP OF DIKE ACCESS ROAD SECTION
NOT TO SCALE

NOTES:

- MINIMUM ONE FOOT THICK CLAY LINER TO BE PLACED AND COMPACTED ALONG THE BOTTOM OF THE DMMA AND EXTEND UP INBOARD SLOPES TO THE INBOARD EDGE OF THE EMBANKMENT FILL. CLAY LINER SHALL HAVE A MINIMUM PERMEABILITY OF 1×10^{-10} CM/SEC. SEE TECHNICAL SPECIFICATIONS FOR MATERIAL, PLACEMENT AND COMPACTON, AND TESTING REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING EARTH FILL OPERATIONS DURING CONSTRUCTION OF THE PERIMETER EMBANKMENT SUCH THAT THE FINER, MORE COHESIVE SOILS ARE PLACED IN THE CENTRAL PORTION OF THE EMBANKMENT AND THE COARSER AND LOWER PLASTICITY SOILS ARE PLACED IN THE UPSTREAM OR DOWNSTREAM SLOPES.
- WITH THE EXCEPTION OF THE GRAVEL ROADS, THE FINAL GRADES SHOWN REPRESENT THE TOP OF EARTH FILL. UPON COMPLETION OF EARTH FILL PLACEMENT IN VARIOUS AREAS, A MINIMUM OF 8 INCHES OF TOP SOIL SHALL BE PLACED OVER THE EARTH FILL. PERMANENT SEEDING AND MULCH SHALL BE APPLIED TO THESE AREAS IMMEDIATELY FOLLOWING TOP SOIL PLACEMENT.

DATE	
DESCRIPTION	
NO.	

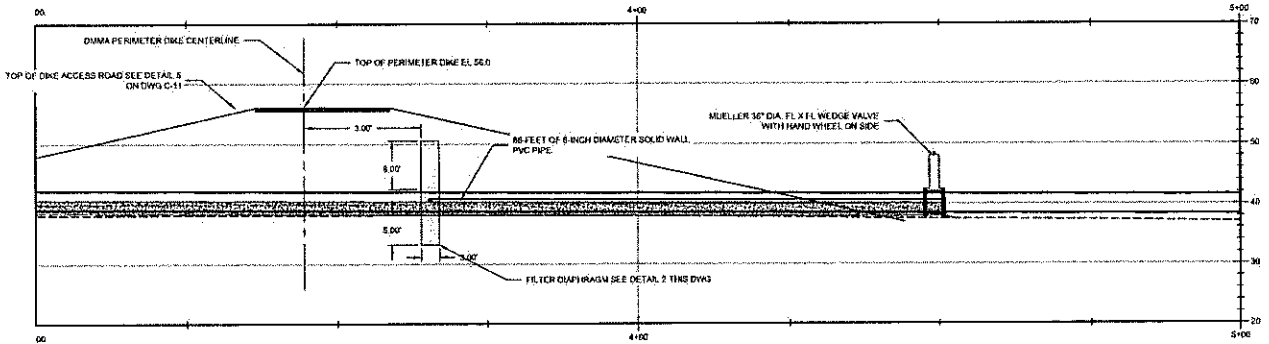
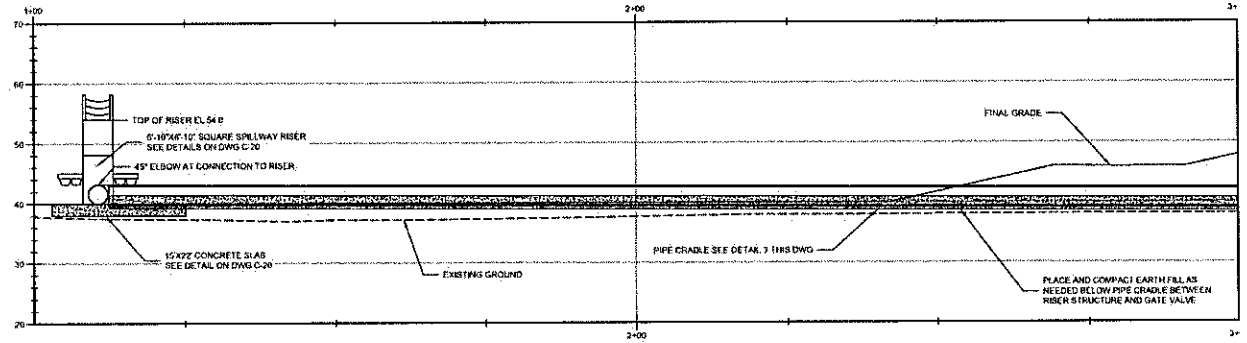
DESIGNED BY: JONATHAN M. PITTMAN, PE
 CHECKED BY: [Blank]
 APPROVED BY: [Blank]
 VIRGINIA PROFESSIONAL NUMBER: [Blank]



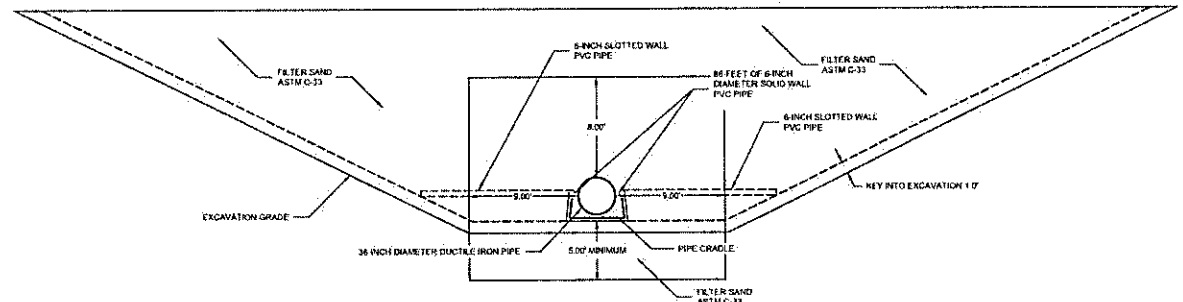
SURRY POWER STATION
 DREDGE MATERIAL MANAGEMENT AREA (DMMA)
 VIRGINIA ELECTRIC POWER COMPANY
 SPERRY COUNTY, VIRGINIA
 DMMA SPUR DIKE SECTIONS
 AND DETAILS

PROJECT: REC21018.01
 DATE: OCTOBER 2017
 DRAWING NO: C-11
 SHEET 13 OF 24

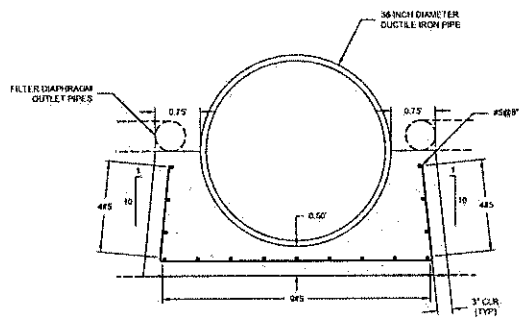




1 DMMA DREDGE EFFLUENT PIPE PROFILE

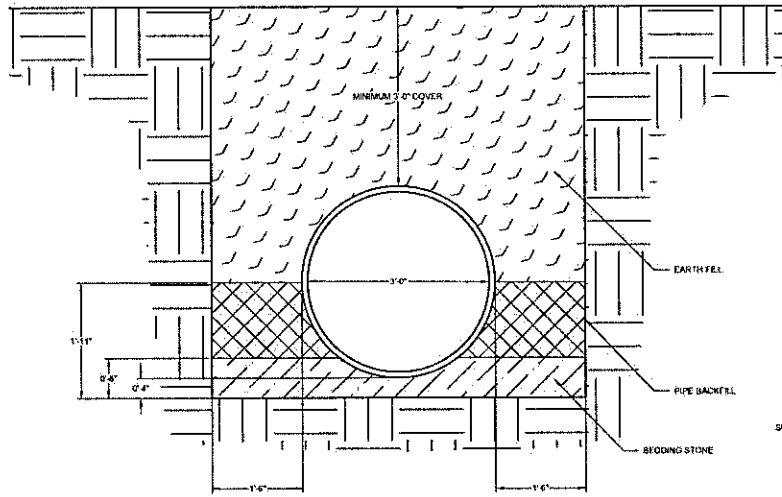


2 SAND FILTER DIAPHRAGM
NOT TO SCALE



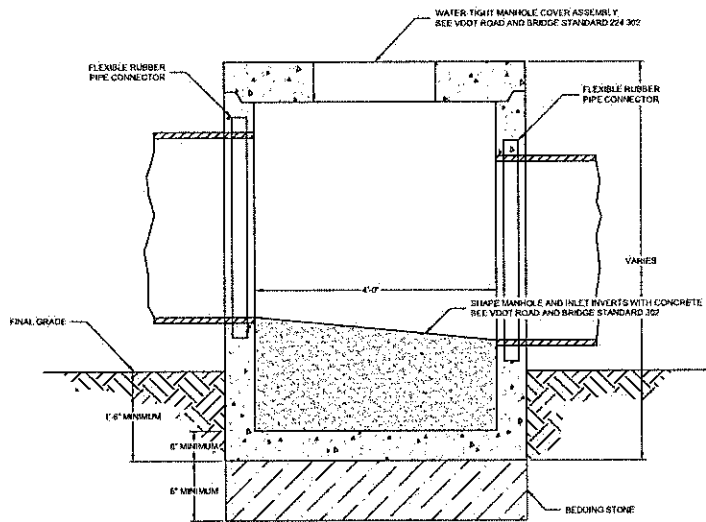
3 PIPE CRADLE DETAIL
SCALE 1/4\"/>

PROJECT NO.	19C2101R 01
DATE	OCTOBER 2017
DRAWING NO.	C-13
SHEET	15 OF 24
DESIGNER	JONATHAN M. PITTMAN, PE
CHECKER	
DATE	
DESCRIPTION	VIRGINIA POWER EMISSIONS ABATEMENT PROJECT
1111 Old Spring Grove Drive, Charlottesville, VA 22904 703.221.7340 • 202.233.5224 FAX • www.schabeleng.com	
SURRY POWER STATION DREDGE MATERIAL MANAGEMENT AREA (DMA) VIRGINIA POWER EMISSIONS ABATEMENT PROJECT SURRY COUNTY, VIRGINIA DMMA DREDGE EFFLUENT DISCHARGE PIPELINE EMBANKMENT SECTION	



1 PIPE BACKFILL SECTION

SCALE: 1/8"=1'-0"

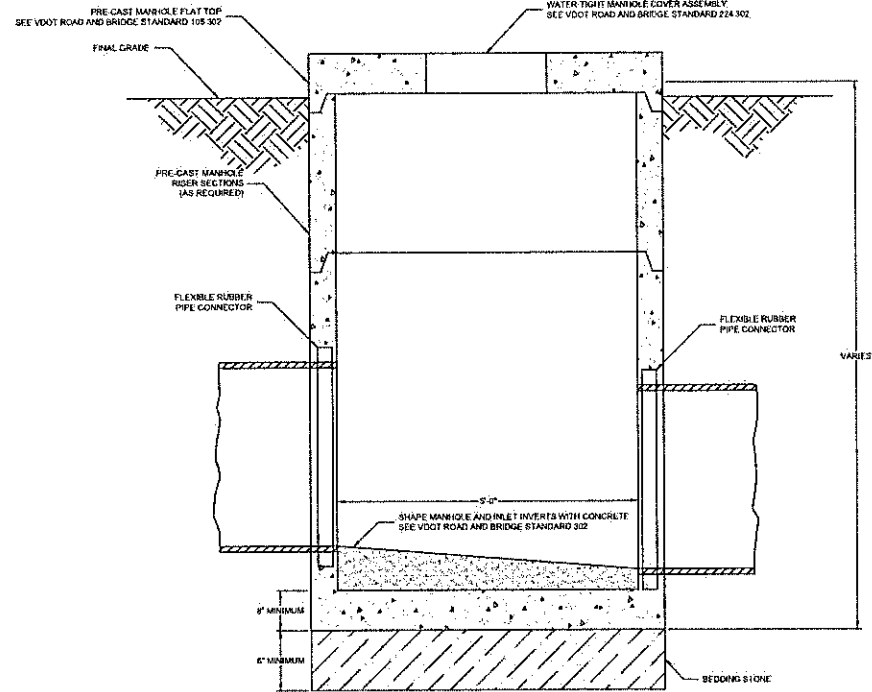


2 TYPICAL CATCH BASIN DETAIL

SCALE: 1/8"=1'-0"



NOTES

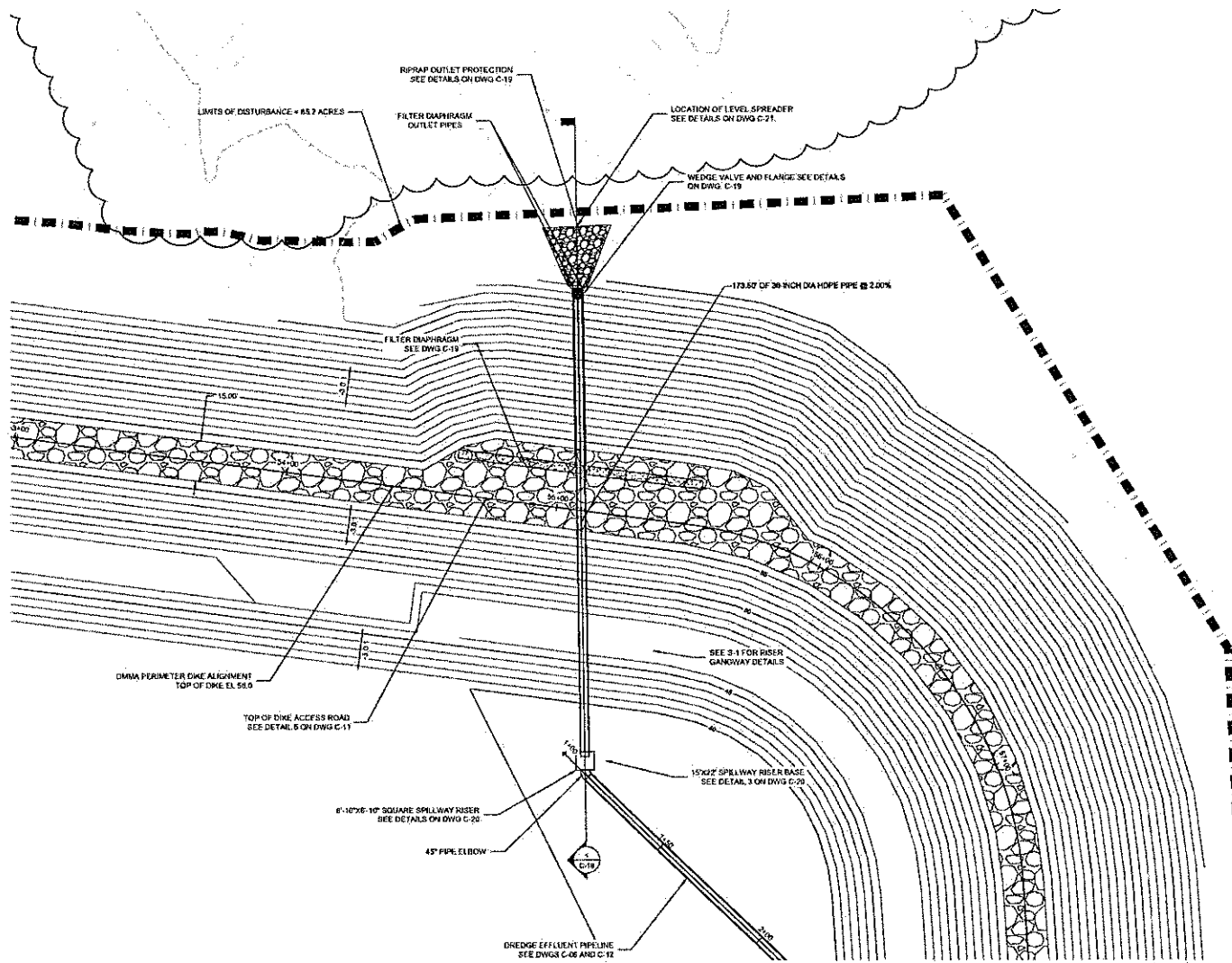
1. FOR MANHOLE AND CATCH BASIN SPECIFICATION SEE VDOT ROAD AND BRIDGE STANDARDS 105.302 AND 224.302.
2. FOR PIPE BACKFILL SPECIFICATIONS SEE VDOT ROAD AND BRIDGE STANDARDS 302.303 FOR NORMAL EARTH FOUNDATION.



3 TYPICAL MANHOLE DETAIL

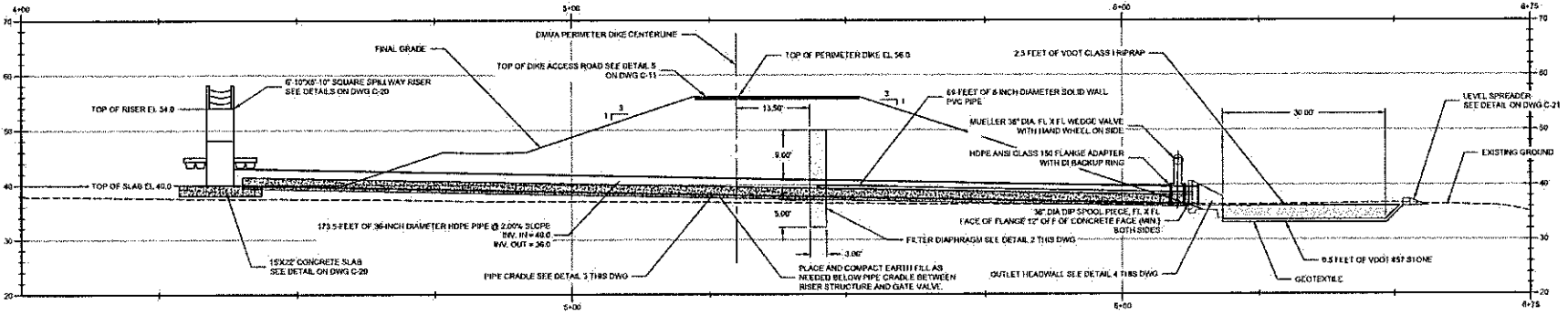
SCALE: 1/8"=1'-0"

PROJECT NO.	DATE
PROJECT TITLE	DESCRIPTION
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
JONATHAN M. PITTMAN, PE. VIRGINIA PROFESSIONAL ENGINEER NO. 54362	
 Schabel ENGINEERING	
114 Old Branch Drive (Crossing), N. 23rd St. Suffolk, Virginia 23434	
SURRY POWER STATION DREDGE MATERIAL MANAGEMENT AREA (DMMA) VIRGINIA POWER COMPANY SURRY COUNTY, VIRGINIA DMMA DREDGE EFFLUENT DISCHARGE PIPELINE DETAILS	
 Dominion Energy	
PROJECT: 16C1018.01	DATE: OCTOBER 2017
DRAWING NO. C-14	SHEET 16 OF 24

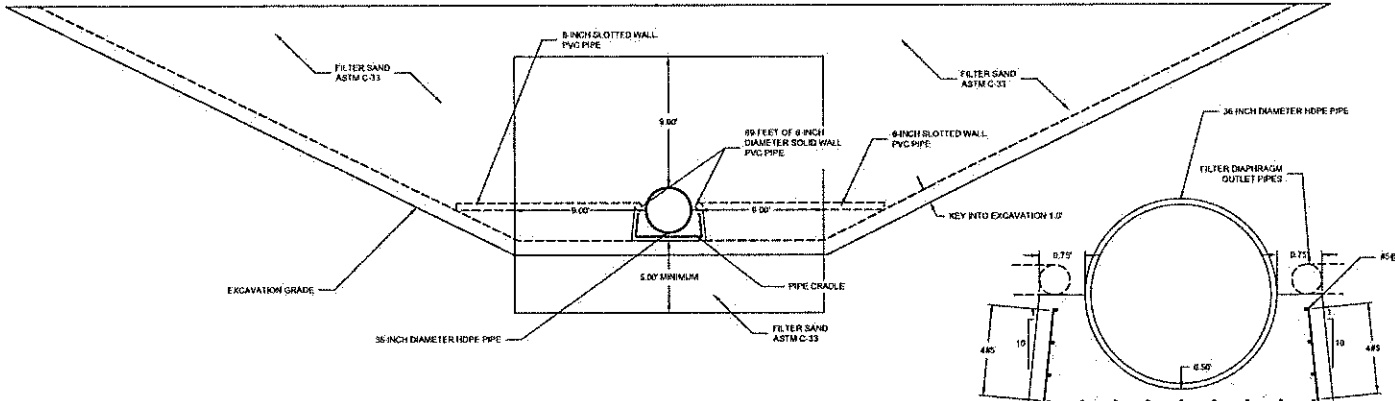
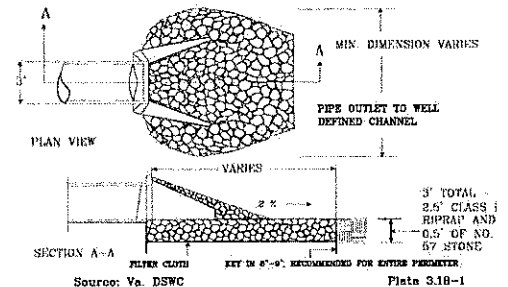


1 DMMA SPILLWAY OUTLET PLAN
 SCALE: 1/4" = 1'-0"

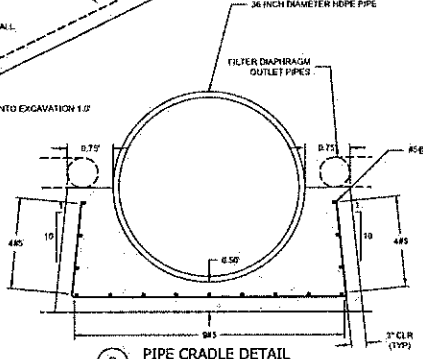
		PROJECT: 16C21618-01 DATE: OCTOBER 2017 DRAWING NO.: C-18 SHEET: 20 OF 24	
SERRYS POWER STATION SEDGE MATERIAL MANAGEMENT AREA (DMMA) VIRGINIA ELECTRIC AND POWER COMPANY SERRYS COUNTY, VIRGINIA		DMMA SPILLWAY OUTLET PLAN	
		115 Old Albemarle Lane, Charlottesville, VA 22902 P: 800.331.4643 FAX: 800.331.4644 www.schnabel.com	
Prepared by:	Checked by:	Date:	Description:
JONATHAN M. PITTMAN, PE		DATE:	DESCRIPTION:
VIRGINIA PROFESSIONAL ENGINEER #14110		DATE:	DESCRIPTION:



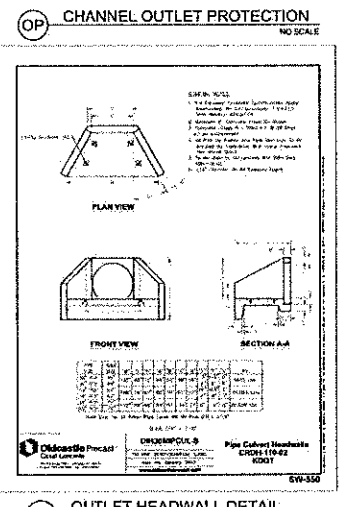
1 PERMANENT OUTLET PIPE PROFILE
 SCALE: 1" = 10'-0"



2 SAND FILTER DIAPHRAGM
 NOT TO SCALE



3 PIPE CRADLE DETAIL
 SCALE: 1" = 10'-0"



4 OUTLET HEADWALL DETAIL
 NO SCALE

DATE	
REVISION	
NO.	
DESCRIPTION	
DESIGNED BY	
CHECKED BY	
APPROVED BY	JONATHAN M. PITTMAN, PE
TITLE	SENIOR PROFESSIONAL REGISTERED CIVIL ENGINEER
SURRY POWER STATION DEBRICE MATERIAL MANAGEMENT AREA (DMA) VIRGINIA POWER COMPANY SURRY COUNTY, VIRGINIA	
DMA SPILLWAY OUTLET PROFILE AND DETAILS	
PROJECT:	MC21018.01
DATE:	OCTOBER 2017
DRAWING NO.:	C-19
SHEET:	21 OF 24



Figure 7. Set of 18-ft-tall, 4-ft x 4-ft box riser weirs with gangway to floating dock access, Barttram Island Cell F, Jacksonville, Florida.

MAGLO, C.K., J.W. BEARCE, M.A. PRESLEY, AND J.L. GROVER. 2014. NEW STANDARD WEIR DESIGN FOR DREDGED MATERIAL MANAGEMENT AREA. JACKSONVILLE DISTRICT. DOTS TECHNICAL NOTES COLLECTION. ERDC TN-DOTS-14-01 VICKSBURG, MS: U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER.

1 EXAMPLE SPILLWAY RISER AND SPILLWAY ACCESS SYSTEM

NOTE: THIS PHOTOGRAPH IS PROVIDED AS AN EXAMPLE OF A SPILLWAY RISER AND SPILLWAY ACCESS SYSTEM FOR A DIMA. CONTRACTOR TO PROVIDE ONLY ONE 5-FOOT SQUARE RISER FOR THE SURRY DIMA. SEE ADDITIONAL NOTES THIS SHEET.

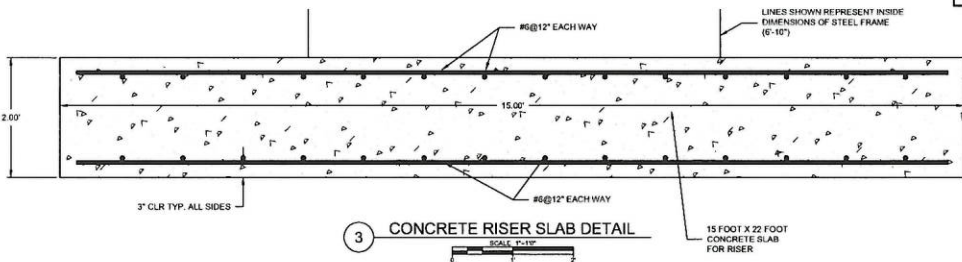


Figure 10. Internal weir outfall flap gates.

US Army Corps of Engineers - Engineer Research and Development Center

2 TYPICAL INTERNAL WEIR FLAP GATE

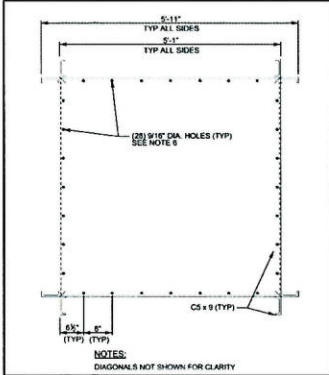
NOTE: CONTRACTOR TO PROVIDE A 3/8-INCH DIAMETER STAINLESS STEEL FLAP GATE WITH CONNECTION TO PIPE FLANGE. FLAP GATE SHALL ALSO INCLUDE A STAINLESS STEEL HARDWARE LOCKING MECHANISM. SEE SECTION 40 05 71.16 FOR ADDITIONAL DETAILS AND REQUIREMENTS.



3 CONCRETE RISER SLAB DETAIL

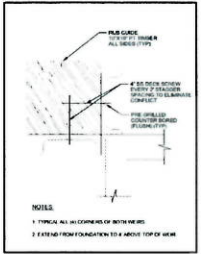
15 FOOT X 22 FOOT CONCRETE SLAB FOR RISER

SCALE: 1/4" = 1'-0"



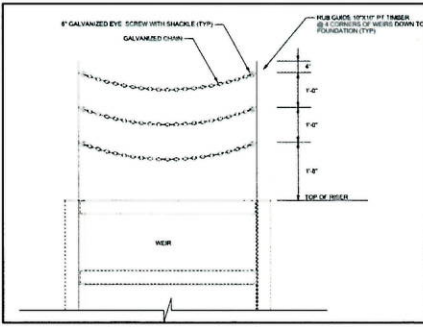
4 TOP VIEW OF RISER STRUCTURE

NOTES:
DIAGONALS NOT SHOWN FOR CLARITY
ALUMINUM GRATING TO BE PROVIDED, NOT SHOWN FOR CLARITY.



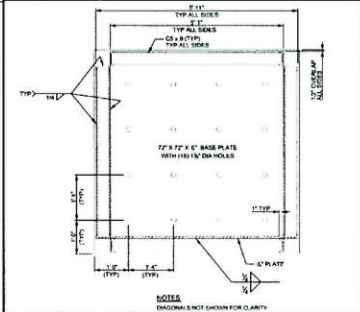
5 TYPICAL RUB GUIDE DETAIL

NOT TO SCALE



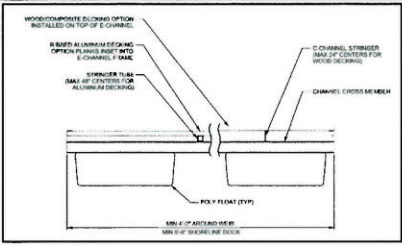
7 CHAIN-RUB GUIDE DETAIL (UPPER SECTION)

NOT TO SCALE



8 TYPICAL RISER SLAB TO RISER TOWER BASE PLATE CONNECTION

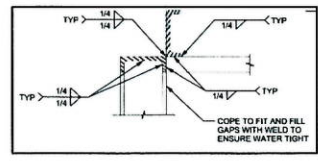
NOT TO SCALE



6 TYPICAL DOCK DETAIL SECTION

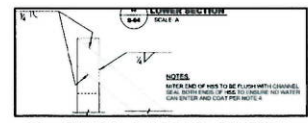
NOT TO SCALE

- NOTES:
- WITH THE EXCEPTION OF THE CONCRETE RISER SLAB, THE DETAILS SHOWN ON THIS SHEET WERE PROVIDED BY THE USAGE JACKSONVILLE DISTRICT. THE DETAILS PROVIDED ARE CONCEPTUAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A DETAILED RISER STRUCTURE DESIGN FOR REVIEW BY THE ENGINEER AND OWNER. THE RISER SHALL BE DESIGNED FOR FULL FLOOD AND SEDIMENT LOADING. THE CONTRACTOR'S DESIGN SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA WITH EXPERIENCE IN THE DESIGN OF SIMILAR STRUCTURES.
 - THE RISER STRUCTURE SHALL HAVE 5-FOOT BY 5-FOOT INSIDE DIMENSIONS.
 - STRUCTURAL STEEL VERTICAL AND HORIZONTAL MEMBERS SHALL CONSIST OF ADEQUATELY SIZED C CHANNEL. OTHER FRAMING MEMBERS TO BE STRUCTURAL ANGLES, HSS, BARS AND PLATES AS APPROPRIATE. THE STRUCTURAL STEEL MEMBERS FOR THE RISER STRUCTURE SHALL BE COATED WITH COAL TAR EPOXY.
 - FASTENERS TO BE STAINLESS STEEL, TYPE 316 UNLESS OTHERWISE APPROVED.
 - COMPOSITE HOLLOW STOP LOGS SHALL BE PROVIDED FOR ALL FOUR SIDES OF THE RISER FROM EL. 49 UP TO EL. 53.0. 8-INCH TALL STOP LOGS SHOULD BE PROVIDED FOR 10-FOET OF RISER HEIGHT, 4-INCH HIGH STOP LOGS SHOULD BE PROVIDED FOR 2-FOET OF RISER HEIGHT, AND 2-INCH TALL STOP LOGS SHOULD BE PROVIDED FOR THE REMAINING 1-FOOT. COMPOSITE MEMBERS SHALL BE SIZED FOR PROPOSED HYDROSTATIC AND SEDIMENT LOADING WITH MINIMAL DEFLECTION.
 - 10-IN X 16-IN TIMBER RUB GUIDES SHALL BE PROVIDED FOR FLOATING DOCK AT EACH CORNER OF RISER STRUCTURE. SEE ADDITIONAL DETAILS THIS SHEET.
 - FLOATING DOCKS TO BE PROVIDED AS SHOWN. GANGWAY TO ACCESS RISER WILL BE REQUIRED. ADDITIONAL DESIGN DETAILS / REQUIREMENTS TO BE PROVIDED TO CONTRACTOR UNDER SEPARATE COVER.



9 SECTION

NOT TO SCALE



10 TYPICAL DIAGONAL SECTION

NOT TO SCALE

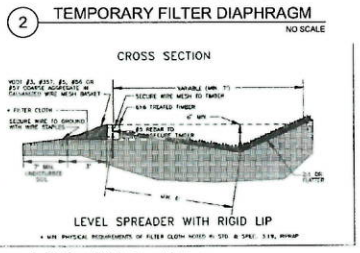
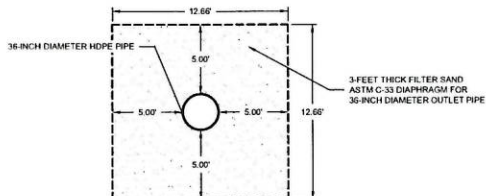
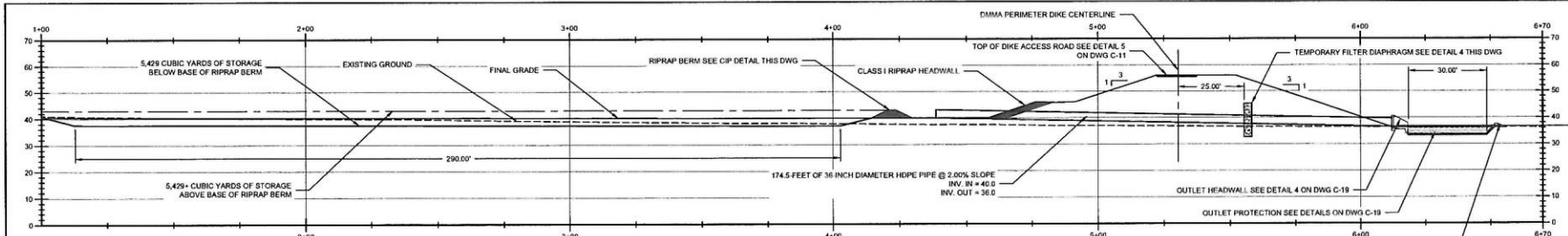
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DESCRIPTION	
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DESIGNED BY	JONATHAN M. PITTMAN, PE
CHECKED BY	
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CHECKED BY	
DATE	
REVIEWED BY	
DATE	

SURRY POWER STATION
 DREDGE MATERIAL MANAGEMENT AREA (DIMMA)
 VIRGINIA ELECTRIC AND POWER COMPANY
 SURRY COUNTY, VIRGINIA
 DIMMA SPILLWAY RISER
 DETAILS

PROJECT: 16C31018.01
 DATE: OCTOBER 2017
 DRAWING NO.: C-20
 SHEET 22 OF 24

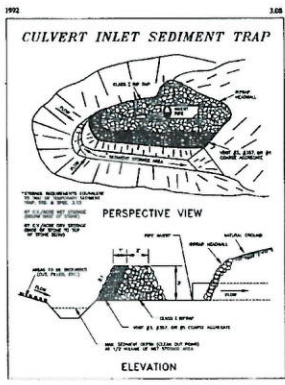
Scrnabel
 ENGINEERING
 15A Oak Manor Drive, Covington, NC 27030
 703.521.1200 | 703.521.1202 | 703.521.1203

Dominon Energy



1 CULVERT INLET SEDIMENT BASIN AND OUTLET PIPE PROFILE

NOTE: CONTRACTOR TO RE-USE THE 36-INCH HDPE PIPE FOR THE CULVERT INLET SEDIMENT TRAP AS THE PERMANENT SPILLWAY OUTLET PIPE. CONTRACTOR TO PROTECT PIPE AS NECESSARY THROUGHOUT THE WORK AND REPLACE IF DAMAGED.



Source: North Carolina Sediment Control Commission Plate 3-08-2

LS LEVEL SPREADER NO SCALE

TABLE 3.3.6B ACCEPTABLE TEMPORARY SEEDING MATERIALS "QUICK REFERENCE FOR ALL REGIONS"

Planting Date	Species	Rate (lb/acre)
Sept. 1 - Feb. 15	30-70 Mix of Annual Ryegrass (Linn.) and Annual Ryegrass (Linn.) (Linn.) (Linn.)	50-100
Feb. 16 - Aug. 31	Annual Ryegrass (Linn.) (Linn.)	40-100
May 1 - Aug. 31	Common Milkweed (Linn.) (Linn.)	50

TS TEMPORARY SEEDING DETAIL NO SCALE

TABLE 3.3.6C PERMANENT SEEDING DETAIL

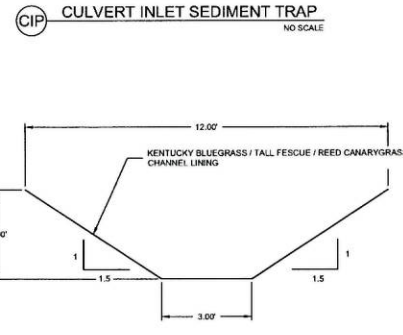
Species	Rate (lb/acre)
Annual Ryegrass (Linn.) (Linn.)	50-100
Common Milkweed (Linn.) (Linn.)	50

PS PERMANENT SEEDING DETAIL NO SCALE

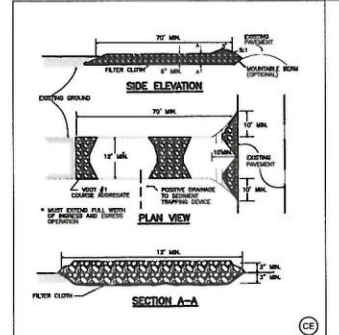
TABLE 3.3.6A ORGANIC MULCH MATERIALS AND APPLICATION RATES

MATERIAL	Rate (lb/acre)	Notes
Straw or Hay	15-25	Do not use on steep slopes. Spread with mulch blower or by hand.
Filter Cloth	Minimum 1200	Do not use on steep slopes. Spread with mulch blower or by hand.
Wood Chips	4-6	Use on erodible soil. Apply with mulch blower, apply in 2" layers.
Wood Chips	4-6	Use on erodible soil. Apply with mulch blower, apply in 2" layers.

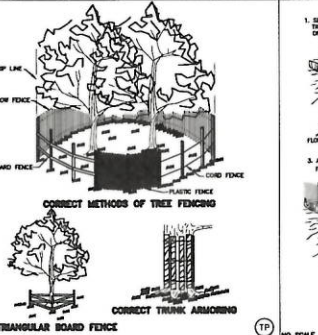
MU MULCHING DETAIL NO SCALE



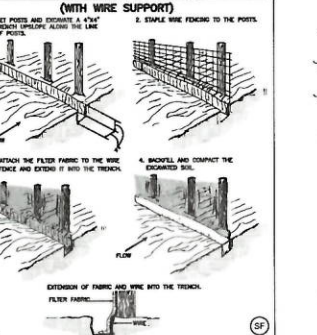
SCC STORMWATER CONVEYANCE CHANNEL NO SCALE



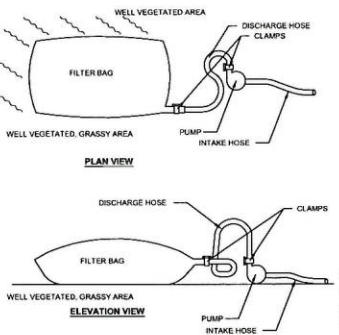
NO SCALE STONE CONSTRUCTION ENTRANCE



NO SCALE TREE PROTECTION



NO SCALE CONSTRUCTION OF A SILT FENCE



NO SCALE DEWATERING STRUCTURE

DATE	
DESCRIPTION	
NO.	
DESIGNED BY	JONATHAN M. PITTMAN, PE
CHECKED BY	
APPROVED BY	
DATE	
DESIGNATION	VIRGINIA PROFESSIONAL ENGINEER
PROJECT	SURRY POWER STATION
DREDGE MATERIAL MANAGEMENT AREA (DMMA)	
VIRGINIA ELECTRIC AND POWER COMPANY	
SURRY COUNTY, VIRGINIA	
PROJECT NO.	16C21018.01
DATE	OCTOBER 2017
DRAWING NO.	C-21
SHEET	23 OF 24



