COVER SHEET

CHESAPEAKE ENERGY CENTER
SHORELINE EROSION REPAIRS - PRIORITY 1 AREA

2701 VEPCO STREET
CHESAPEAKE, VIRGINIA

PREPARED FOR

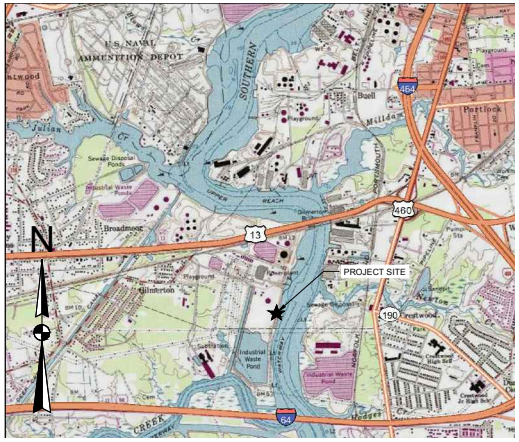
DOMINION RESOURCES SERVICES, INC.

PREPARED BY

SCHNABEL ENGINEERING

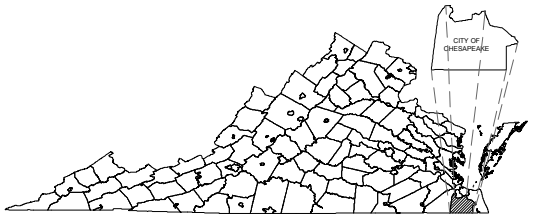
PROJECT NO. 13221002.00

APPLICANT: DOMINION RESOURCES SERVICES, INC.
WATERWAY: ELIZABETH RIVER
CITY: CHESAPEAKE
TOWNSHIP: N/A
COUNTY: N/A
DRAWING NUMBER: G-01
NUMBER OF SHEET: 1 OF 8
DATE: 7/12/13



VICINITY MAP

LOCATION MAP



KEY MAP

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OVERALL EXISTING SITE PLAN & SHEET INDEX

SHEET INDEX

DRAWING NUMBER	DRAWING TITLE	SHEET NUMBER
G-01	COVER SHEET	1
G-02	OVERALL EXISTING SITE PLAN & SHEET INDEX	2
C-01	EXISTING SITE CONDITIONS	3
C-02	PROPOSED SITE PLAN	4
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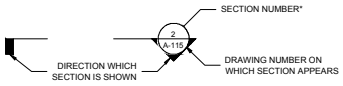
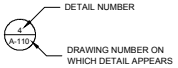
ABBREVIATIONS

BOT	BOTTOM
CTR	CENTER
CONC	CONCRETE
DET	DETAIL
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
EL	ELEVATION
EQ	EQUAL
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
IN	INCHES
LFT	LEFT
MAX	MAXIMUM
MHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
MIN	MINIMUM
NTS	NOT TO SCALE
OC	ON CENTER
REF	REFERENCE
REQD	REQUIRED
RT	RIGHT
SHT	SHEET
SPEC	SPECIFICATION
STD	STANDARD
TEMP	TEMPORARY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT

DRAWING SYMBOLS LEGEND

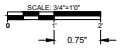


SECTION INDICATOR



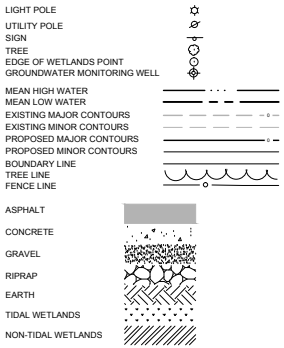
DETAIL INDICATOR

PLAN, SECTION OR DETAIL LABEL



SCALE INDICATOR

FEATURES LEGEND



1 OVERALL EXISTING SITE PLAN

SCALE: 1"=300'
0 300' 600'

DOMINION RESOURCES SERVICES, INC.

APPLICANT:	DOMINION RESOURCES SERVICES, INC.
WATERWAY:	ELIZABETH RIVER
CITY:	CHESAPEAKE
TOWNSHIP:	N/A
COUNTY:	N/A
DRAWING NUMBER:	G-02
NUMBER OF SHEET:	2 OF 8
DATE:	7/12/13

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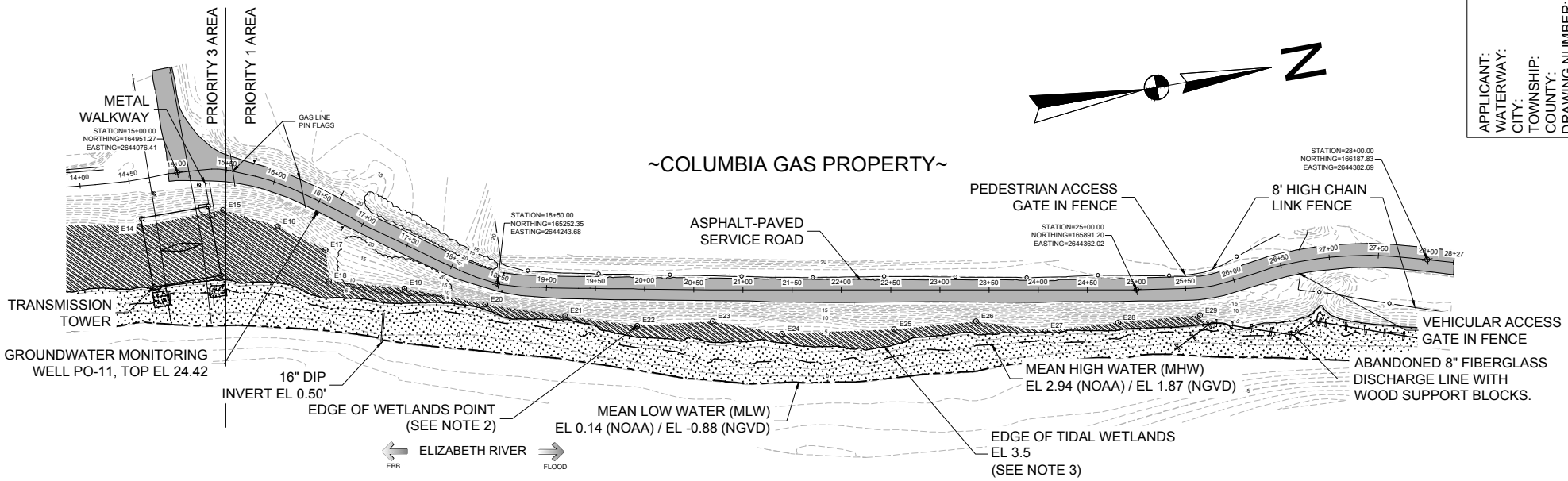
EXISTING CONDITIONS

APPLICANT: DOMINION RESOURCES SERVICES, INC.
WATERWAY: ELIZABETH RIVER
CITY: CHESAPEAKE
TOWNSHIP: N/A
COUNTY: N/A
DRAWING NUMBER: C-01
NUMBER OF SHEET: 3 OF 8
DATE: 7/12/13



1 EXISTING SITE PLAN

SCALE: 1"=50'

NOTES

1. SURVEY OF TOPOGRAPHY AND SITE FEATURES PERFORMED BY D&M SURVEYORS OF TAPPAHANNOCK, VA AND DATED MAY 2013. HORIZONTAL CONTROL IS NAD 1927 VIRGINIA STATE PLANE SOUTH AND VERTICAL CONTROL IS NGVD 1929.
2. WETLANDS SHOWN ON SITE FLAGGED BY MAP ENVIRONMENTAL, INC. OF VIRGINIA BEACH, VA ON SEPTEMBER 27 AND 28, 2011 AND SURVEYED BY D&M SURVEYORS IN OCTOBER 2011. NOTIFICATION OF PRELIMINARY JURISDICTIONAL DETERMINATION WAS ISSUED ON DECEMBER 7, 2011.
3. THE EDGE OF TIDAL WETLANDS WAS ESTABLISHED AT EL 3.5 (NGVD) / EL 4.3 (NOAA), WHICH IS APPROXIMATELY 1.5 TIMES THE MEAN TIDAL RANGE ABOVE THE ELEVATION OF THE MEAN LOW WATER.
4. MEAN HIGH WATER AND MEAN LOW WATER SURFACE ELEVATIONS PROVIDED BY NOAA (HTTP://NOAA.GOV)
5. UNDERGROUND UTILITIES WERE NOT SURVEYED AND ARE NOT SHOWN.
6. TREE LINES INDICATE AREAS OF RELATIVELY DENSE TREE COVER. WOODY VEGETATION, BRUSH, AND SPARSE TREES ARE PRESENT ALONG THE MAJORITY OF THE CHANNEL SIDE EMBANKMENT SLOPE.

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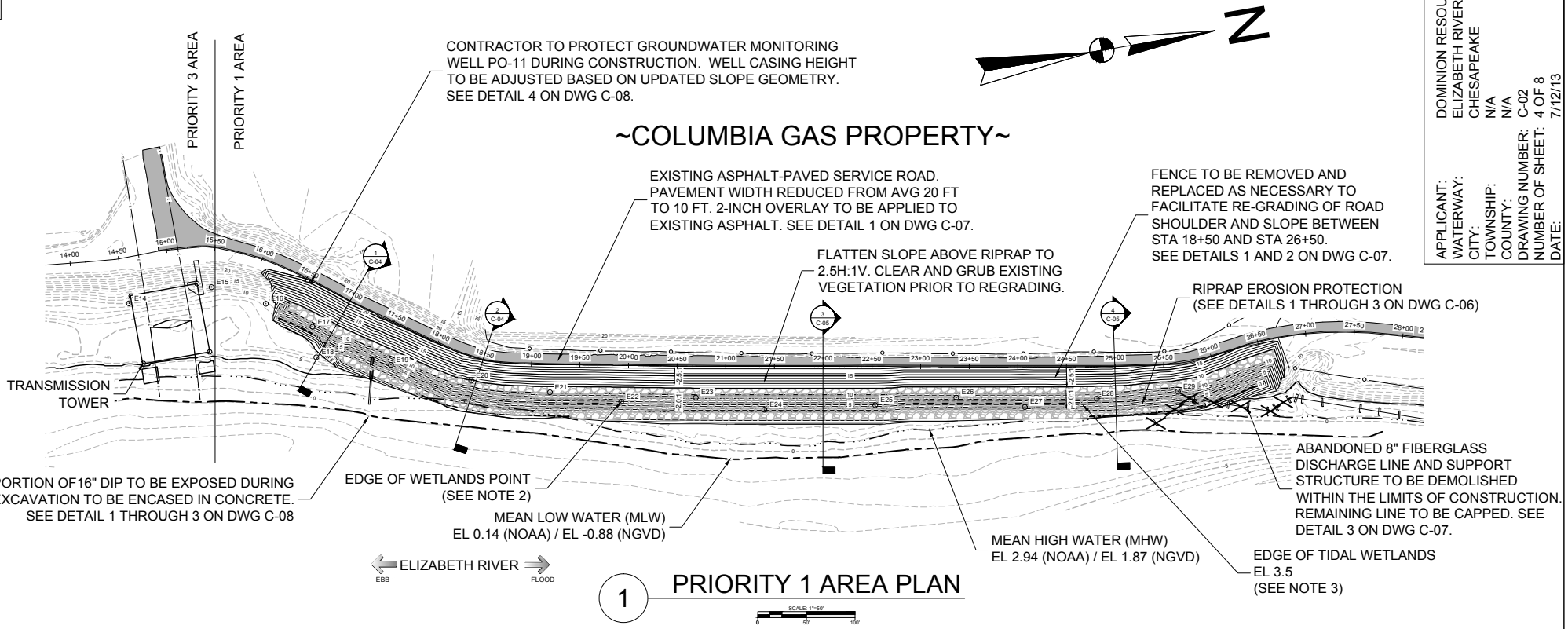
PROPOSED SITE PLAN



1 PRIORITY 1 AREA PLAN

APPLICANT:	DOMINION RESOURCES SERVICES, INC.
WATERWAY:	ELIZABETH RIVER
CITY:	CHESAPEAKE
TOWNSHIP:	N/A
COUNTY:	N/A
DRAWING NUMBER:	C-02
NUMBER OF SHEET:	4 OF 8
DATE:	7/12/13

NOTES

1. SURVEY OF TOPOGRAPHY AND SITE FEATURES PERFORMED BY D&M SURVEYORS OF TAPPAHANNOCK, VA AND DATED JUNE 2011. HORIZONTAL CONTROL IS NAD 1927 VIRGINIA STATE PLANE SOUTH AND VERTICAL CONTROL IS NGVD 1929.
2. WETLANDS SHOWN ON SITE FLAGGED BY MAP ENVIRONMENTAL, INC. OF VIRGINIA BEACH, VA ON SEPTEMBER 27 AND 28, 2011 AND SURVEYED BY D&M SURVEYORS IN OCTOBER 2011. NOTIFICATION OF PRELIMINARY JURISDICTIONAL DETERMINATION WAS ISSUED ON DECEMBER 7, 2011.
3. THE EDGE OF TIDAL WETLANDS WAS ESTABLISHED AT EL 3.5 (NGVD) / EL 4.3 (NOAA), WHICH IS APPROXIMATELY 1.5 TIMES THE MEAN TIDAL RANGE ABOVE THE ELEVATION OF THE MEAN LOW WATER.
4. MEAN HIGH WATER AND MEAN LOW WATER SURFACE ELEVATIONS PROVIDED BY NOAA (HTTP://NOAA.GOV)
5. UNDERGROUND UTILITIES WERE NOT SURVEYED AND ARE NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR LOCATING, COORDINATING WITH THE APPROPRIATE UTILITIES AND PROTECTING ANY UNDERGROUND UTILITIES.
6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTROL OF WATER DURING CONSTRUCTION.
7. THE TOTAL ACREAGE OF THE PRIORITY 1 AREA IS 1.7 ACRES. THE ACREAGE OF WETLANDS IS 0.48 ACRES. THEREFORE, THE AVOIDED ACREAGE IS 1.22 ACRES. SEE NOTE 8 FOR A MORE DETAILED BREAKDOWN OF THE WETLANDS IMPACTS.
8. NON-TIDAL WETLANDS IMPACTS: 11,520 SF. TIDAL WETLANDS IMPACTS: 9,350 SF.

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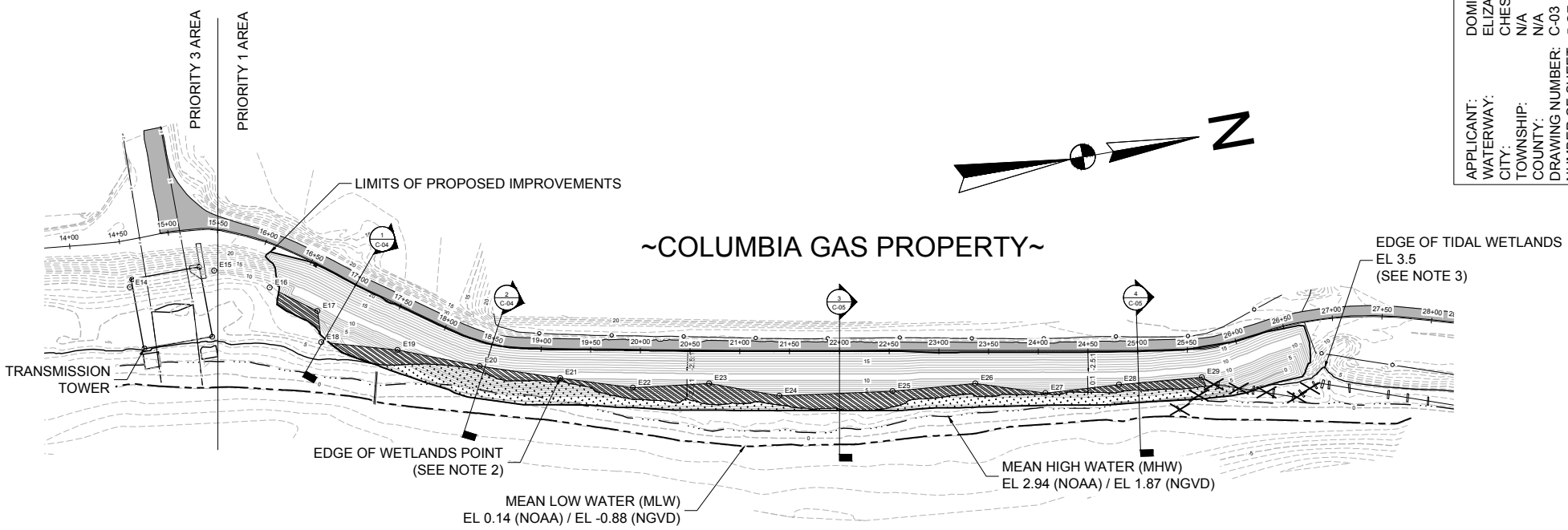
PROPOSED SITE PLAN - WETLANDS DETAIL

APPLICANT: DOMINION RESOURCES SERVICES, INC.
WATERWAY: ELIZABETH RIVER
CITY: CHESAPEAKE
TOWNSHIP: N/A
COUNTY: N/A
DRAWING NUMBER: C-03
NUMBER OF SHEET: 5 OF 8
DATE: 7/12/13



1 PRIORITY 1 AREA PLAN

SCALE: 1"=50'
0 50' 100'

NOTES

1. SURVEY OF TOPOGRAPHY AND SITE FEATURES PERFORMED BY D&M SURVEYORS OF TAPPAHANNOCK, VA AND DATED JUNE 2011. HORIZONTAL CONTROL IS NAD 1927 VIRGINIA STATE PLANE SOUTH AND VERTICAL CONTROL IS NGVD 1929.
2. WETLANDS SHOWN ON SITE FLAGGED BY MAP ENVIRONMENTAL, INC. OF VIRGINIA BEACH, VA ON SEPTEMBER 27 AND 28, 2011 AND SURVEYED BY D&M SURVEYORS IN OCTOBER 2011. NOTIFICATION OF PRELIMINARY JURISDICTIONAL DETERMINATION WAS ISSUED ON DECEMBER 7, 2011.
3. THE EDGE OF TIDAL WETLANDS WAS ESTABLISHED AT EL 3.5 (NGVD) / EL 4.3 (NOAA), WHICH IS APPROXIMATELY 1.5 TIMES THE MEAN TIDAL RANGE ABOVE THE ELEVATION OF THE MEAN LOW WATER.
4. MEAN HIGH WATER AND MEAN LOW WATER SURFACE ELEVATIONS PROVIDED BY NOAA (HTTP://NOAA.GOV)
5. THE TOTAL ACREAGE OF THE PRIORITY 1 AREA IS 1.7 ACRES. THE ACREAGE OF WETLANDS IS 0.48 ACRES. THEREFORE, THE AVOIDED ACREAGE IS 1.22 ACRES. SEE NOTE 8 FOR A MORE DETAILED BREAKDOWN OF THE WETLANDS IMPACTS.
6. NON-TIDAL WETLANDS IMPACTS (IMPACT AREA 1): 11,520 SF. TIDAL WETLANDS IMPACTS (IMPACT AREA 2): 9,350 SF.

LEGEND

IMPACT AREA 1 (NON-TIDAL WETLANDS)

IMPACT AREA 2 (TIDAL WETLANDS)

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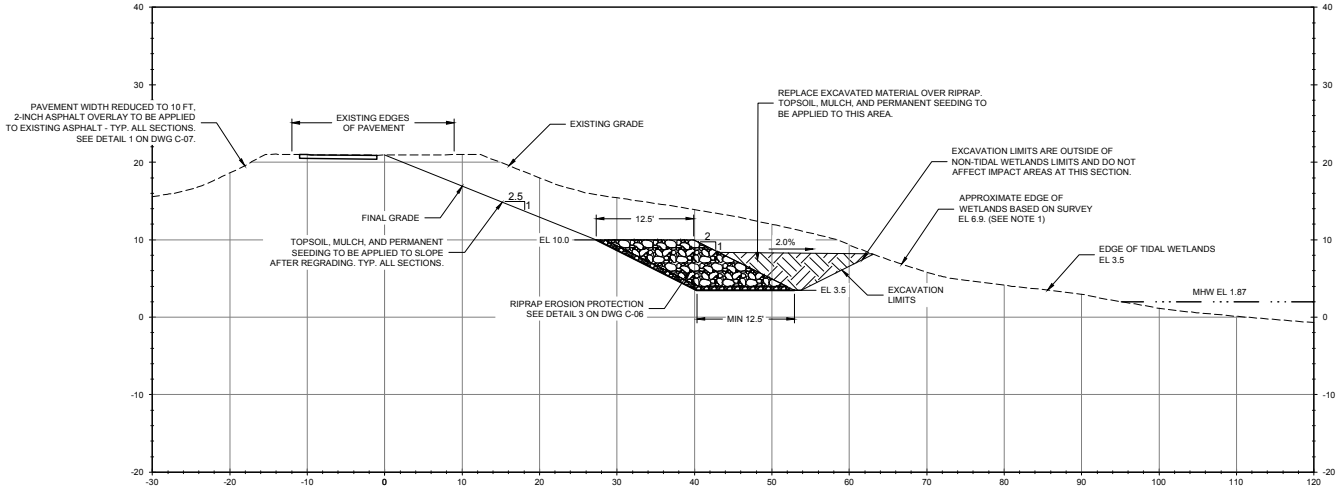
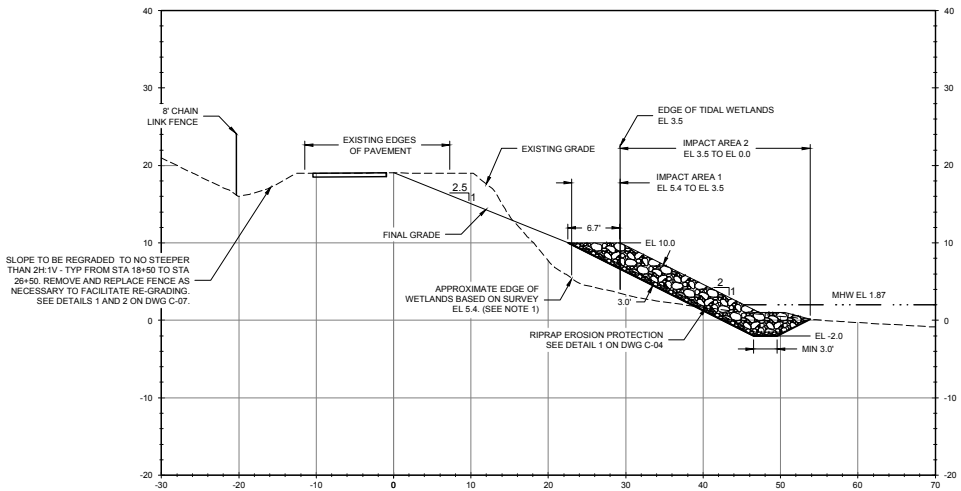
SECTION VIEWS



1 SECTION VIEW STA 17+00

SCALE: 1"=8'



2 SECTION VIEW STA 18+50

SCALE: 1"=8'

NOTES

1. THE ELEVATION OF THE SURVEYED WETLANDS VARIES ALONG THE LENGTH OF THE SLOPE.

APPLICANT:	DOMINION RESOURCES SERVICES, INC.
WATERWAY:	ELIZABETH RIVER
CITY:	CHESAPEAKE
TOWNSHIP:	N/A
COUNTY:	N/A
DRAWING NUMBER:	C-04
NUMBER OF SHEET:	6 OF 8
DATE:	7/12/13

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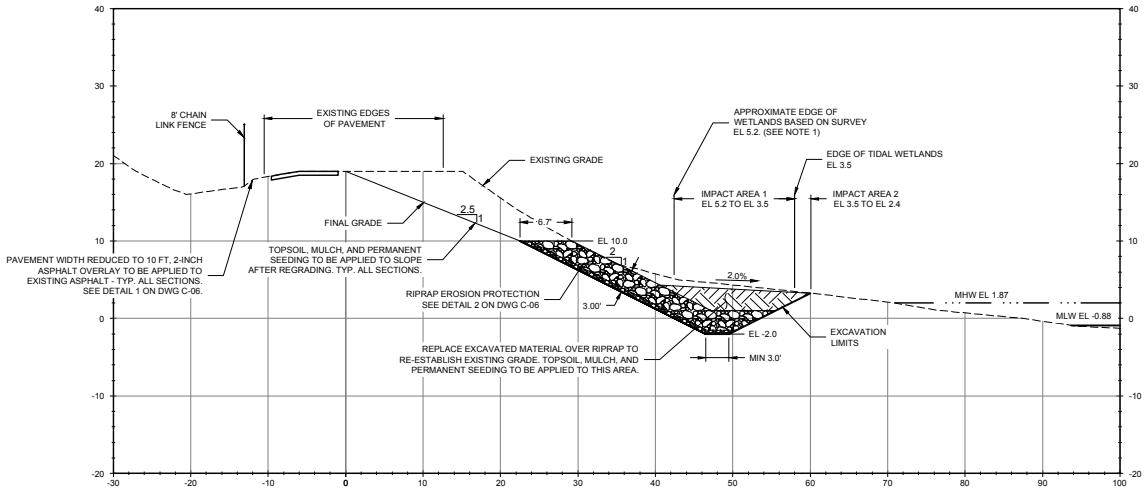
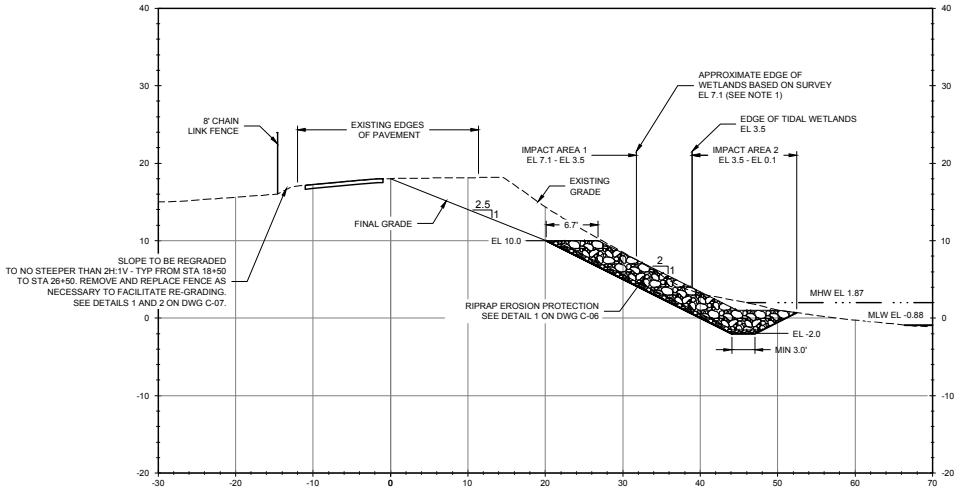
SECTION VIEWS



3 SECTION VIEW STA 22+00

SCALE: 1"=8'

0 8' 16'



4 SECTION VIEW STA 25+00

SCALE: 1"=8'

0 8' 16'

NOTES

1. THE ELEVATION OF THE SURVEYED WETLANDS VARIES ALONG THE LENGTH OF THE SLOPE.

APPLICANT: DOMINION RESOURCES SERVICES, INC.
WATERWAY: ELIZABETH RIVER
CITY: CHESAPEAKE
TOWNSHIP: N/A
COUNTY: N/A
DRAWING NUMBER: C-05
NUMBER OF SHEET: 7 OF 8
DATE: 7/12/13

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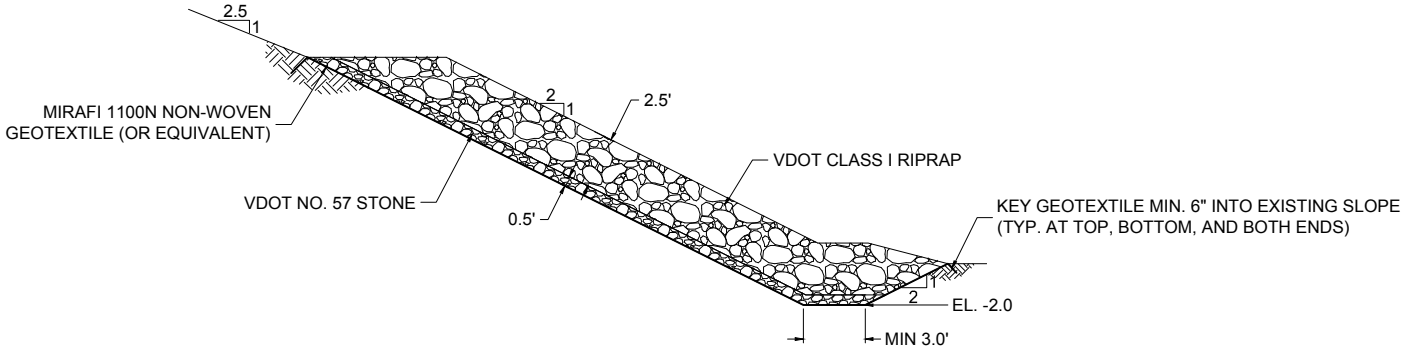
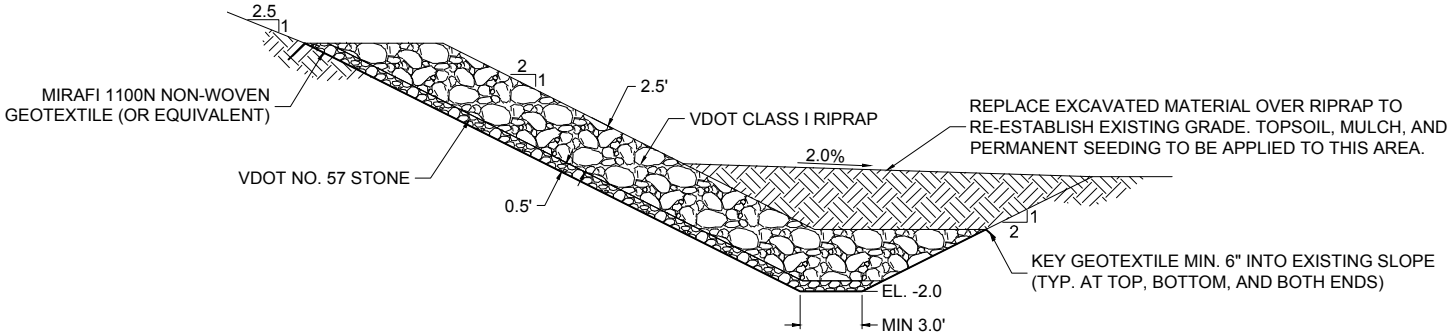
CONSTRUCTION DETAILS



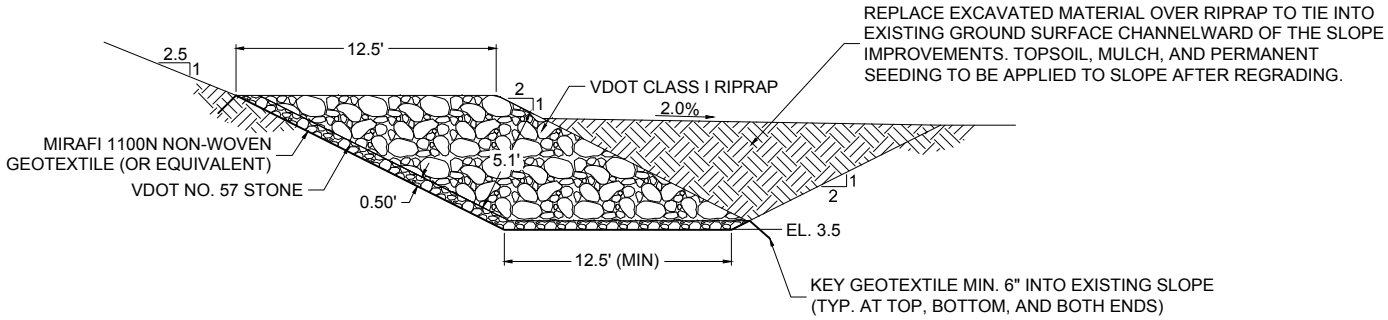
1 RIPRAP DETAIL FOR STA 18+25 T0 STA 19+50, AND STA 23+50 TO STA 25+50

SCALE: 1"=3'0"
0 3' 6'



2 RIPRAP DETAIL FOR STA 17+00 TO 18+25, STA 19+50 TO STA 23+50, AND 25+50 TO 26+50

SCALE: 1"=3'0"
0 3' 6'



3 RIPRAP DETAIL FOR STA 16+00 THROUGH 17+00

SCALE: 1"=3'0"
0 3' 6'

APPLICANT: DOMINION RESOURCES SERVICES, INC.
WATERWAY: ELIZABETH RIVER
CITY: CHESAPEAKE
TOWNSHIP: N/A
COUNTY: N/A
DRAWING NUMBER: C-06
NUMBER OF SHEET: 8 OF 8
DATE: 7/12/13

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