



# Application for URBAN DESIGN COMMITTEE Review

Department of Planning and Development Review  
Planning & Preservation Division  
900 E. Broad Street, Room 510  
Richmond, Virginia 23219  
(804) 646-6335

<http://www.richmondgov.com/CommitteeUrbanDesign>

### Application Type

- Addition/Alteration to Existing Structure
- New Construction
- Streetscape
- Site Amenity

- Encroachment
- Master Plan
- Sign
- Other

### Review Type

- Conceptual
- Final

2/10/15

Project Name: Deepwater Terminal Road Extension to Goodes Street

Project Address: Deepwater Terminal Road

Brief Project Description (this is not a replacement for the required detailed narrative) : \_\_\_\_\_

This project is to extend Deepwater Terminal Road to about 0.7 miles toward north and connect to Goods Street.

See attachments. \_\_\_\_\_

### Applicant Information

(on all applications other than encroachments, a City agency representative must be the applicant)

Name: Manouchehr Nosrati Email: nosratms@ci.richmond.va.us

City Agency: Department of Public Works - Phone: 646-6319

Address: City Hall, Room 600

Main Contact (if different from Applicant): \_\_\_\_\_

Company: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_

### Submittal Deadlines

All applications and support materials must be filed no later than 21 days prior to the scheduled meeting of the Urban Design Committee (UDC). Please see the schedule on page 3 as actual deadlines are adjusted due to City holidays. **Late or incomplete submissions will be deferred to the next meeting.**

### Filing

Applications can be mailed or delivered to the attention of "Urban Design Committee" at the address listed at the top of this page. **It is important that the applicant discuss the proposal with appropriate City agencies, Zoning Administration staff, and area civic associations and residents prior to filing the application with the UDC.**

### UDC Background

The UDC is a ten member committee created by City Council in 1968 whose purpose is to advise the City Planning Commission on the design of projects on City property or right-of-way. The UDC provides advice of an aesthetic nature in connection with the performance of the duties of the Commission under Sections 17.05, 17.06 and 17.07 of the City Charter. The UDC also advises the Department of Public Works in regards to private encroachments in the public right-of-way.

Date: February 10, 2015

## **Deepwater Terminal Road Extension to Goodes Street**

**City of Richmond Department of Public Works**

**City Award # 500473 & 500491**

**VDOT UPC # 104281**

\*\*\*\*\*

### **LOCATION:**

**From:** Missing Section from Deepwater Terminal Road "South End"

**To:** Deepwater Terminal Road North End "by Goodes Street"

### **ESTIMATED CONSTRUCTION COST:**

\$3,250,000 (Based on 30% Plans)

### **FUNDING SOURCE:**

Current Fund: (\$500K City GO and State Revenue Sharing funds), for Engineering, Right - of -Way and some Utility relocation.

Construction Fund: Unknown (No adequate funding is available yet). DPW has requested \$875,000 funding through FY 2016 Capital Improvement Program.

### **Project Schedule:**

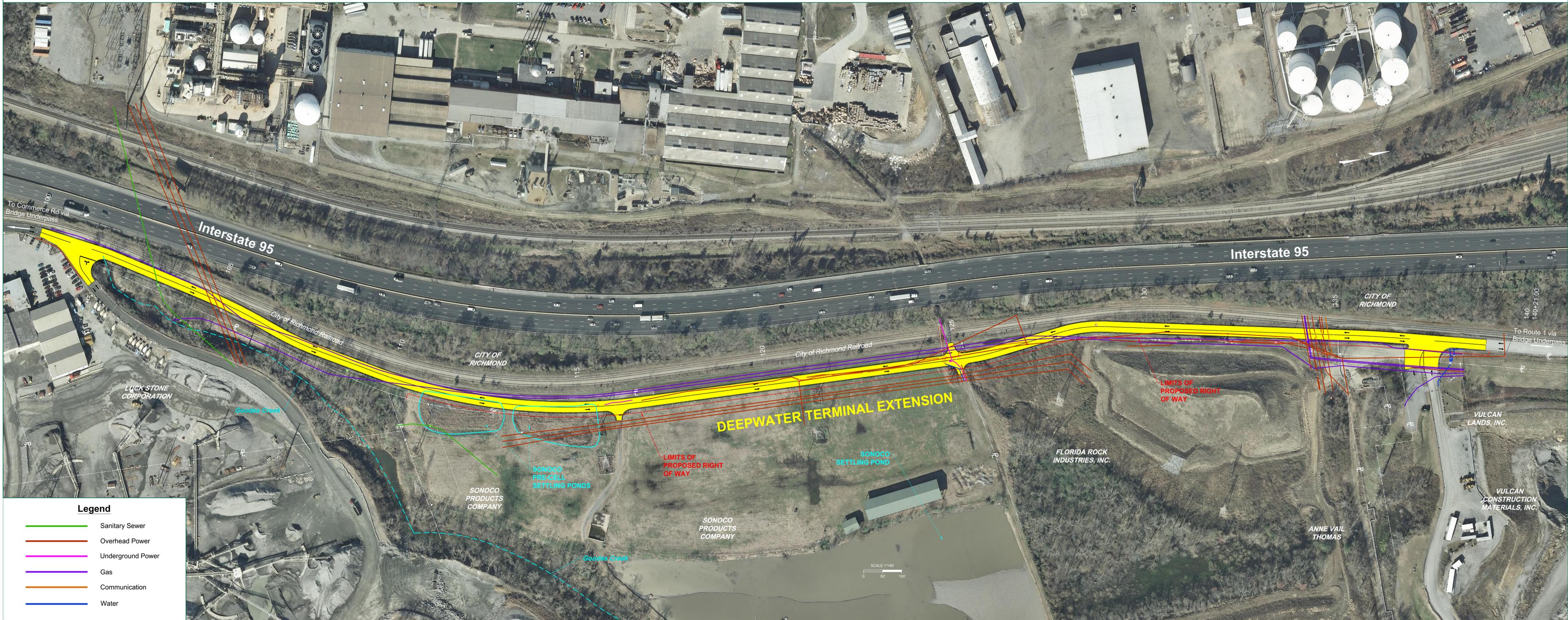
Design: Started Spring 2014 to summer 2015

Construction: TBD pending construction funding appropriation.

### **PROJECT DESCRIPTION:**

This project will extend Deepwater Terminal Road 0.7 miles north to Goodes Street. The project will consist of a 2-lane roadway with shoulders, lighting and drainage improvements. The roadway extension will require utility relocations and right of way acquisitions. The proposed two lane roadway will facilitate and provide access road for taller trucks and equipments enter the Port of Richmond.

# DEEPWATER TERMINAL ROAD EXTENSION TO GOODES STREET



# CITY OF RICHMOND, VIRGINIA

## DEPARTMENT OF PUBLIC WORKS

### ENGINEERING & TECHNICAL SERVICES

FHWA 534 DATA XXXXX			
FHWA REGION	STATE	FEDERAL PROJECT NUMBER	STATE PROJECT NUMBER
	VA.	N/A	U000-127-R52

**30% PRELIMINARY PLANS**

NOT FOR RIGHT OF WAY OR CONSTRUCTION



# DEEPWATER TERMINAL ROAD EXTENSION

(PROJECT LIMITS FROM CURRENT TERMINUS to GOODES ST)

UPC: 104281

RAPID PROJECT: 102186

CITY OF RICHMOND	
APPROVED FOR CONSTRUCTION	
DATE	PROJECT MANAGER
DATE	SURVEYS SUPERINTENDENT
DATE	MAINTENANCE ENGINEER
DATE	CITY TRAFFIC ENGINEER
DATE	CAPITAL PROJECTS ADMINISTRATOR
DATE	CITY ENGINEER
DATE	DIRECTOR OF PUBLIC WORKS

INDEX OF SHEETS

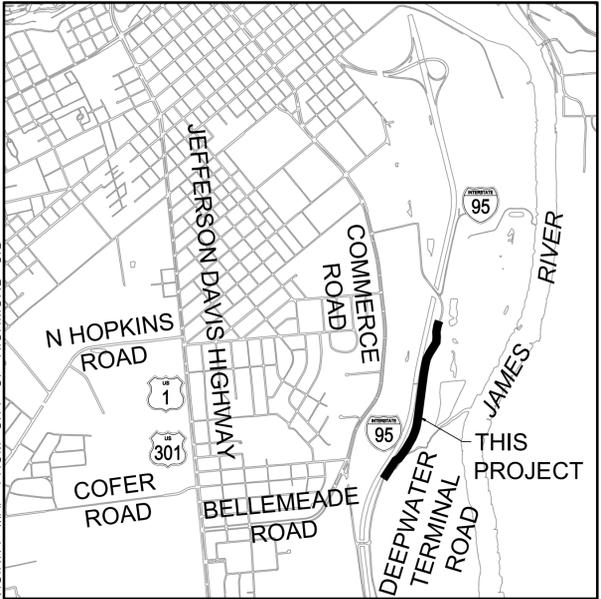
<u>SHEET</u>	<u>NUMBER</u>
COVER SHEET	1
OVERALL LAYOUT PLAN	1A
ALIGNMENT & SURVEY DATA SHEET	1B
TYPICAL SECTIONS	2
GENERAL NOTES & MAINTENANCE OF TRAFFIC	2A
PAVEMENT MARKING & SIGNING SHEET	2B(1) - 2B(3)
PLAN SHEETS	3 - 8
PROFILE SHEETS	3A - 8A
CROSS SECTIONS	XS-1 - XS-11

REVISIONS

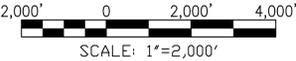
NO.	DATE	COMMENTS

**DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY OF RICHMOND.**

**THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE VDOT'S 2007 ROAD AND BRIDGE SPECIFICATIONS, 2008 ROAD AND BRIDGE STANDARDS, 2011 WORK AREA PROTECTION MANUAL, 2009 MUTCD AND AS AMENDED BY THE CONTRACT PROVISIONS.**



**VICINITY MAP & PLAN SHEET LAYOUT**



OWNER:  
 CITY OF RICHMOND  
 DEPT. OF PUBLIC WORKS  
 CITY HALL, RM 603, RICHMOND, VA  
 PROJECT MANAGER- MANOUCHEHR NOSRATI  
 CONTACT # 804-646-6319

REVISIONS:

**TIMMONS GROUP**

YOUR VISION ACHIEVED THROUGH OURS.

117 S. 14th Street, Suite 303 | Richmond, VA 23219  
 TEL 804.200.6975 FAX 804.225.8551 www.timmons.com

JOB# 33948.008

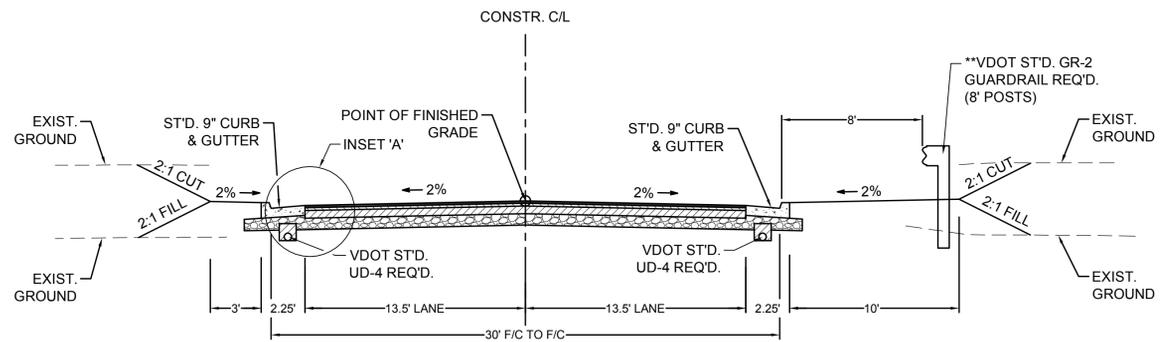
**02/09/15**

**DRAWING NO.: O-28602**



### DEEPWATER TERMINAL ROAD

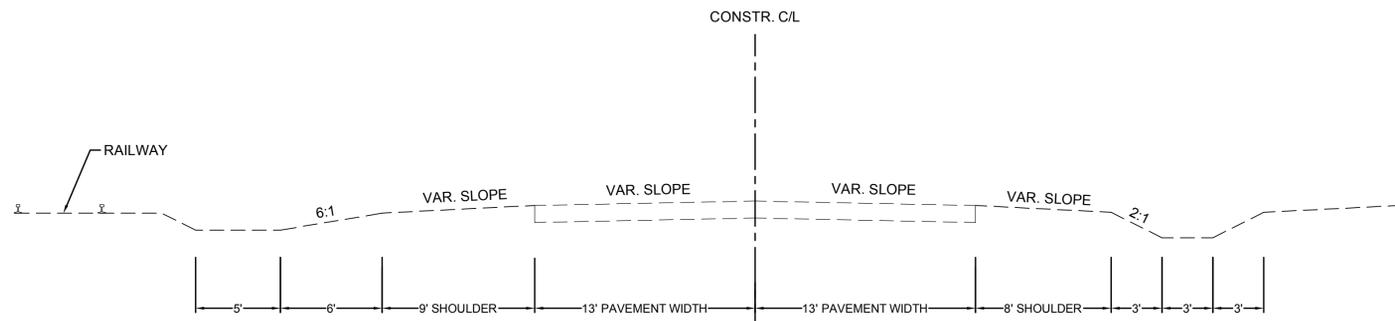
STA. 101+92.00 TO STA. 136+92.00 &  
138+17.00 TO STA. 139+00.00



\*\* GUARDRAIL TO BE PLACED SUCH THAT THE FACE OF THE RAIL IS 8' OFF THE FACE OF CURB. SEE PLANS FOR GUARDRAIL LOCATION

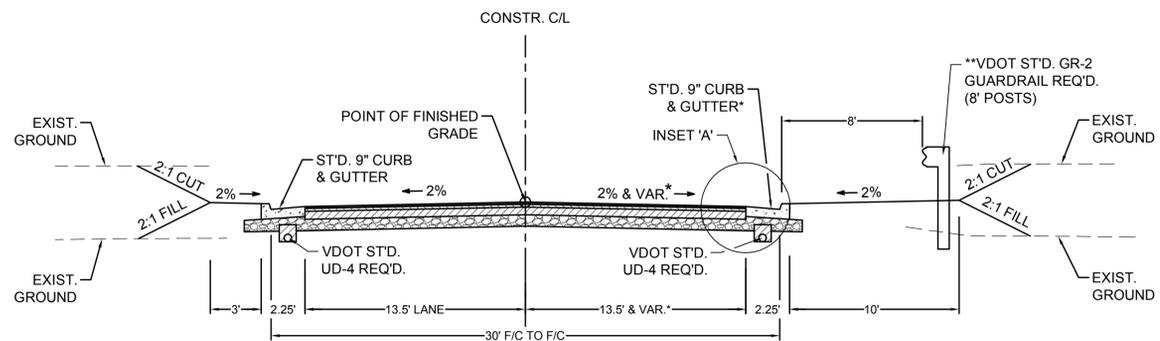
### DEEPWATER TERMINAL ROAD

EXISTING ROADWAY AT SOUTHERN PROJECT TERMINUS



### DEEPWATER TERMINAL ROAD

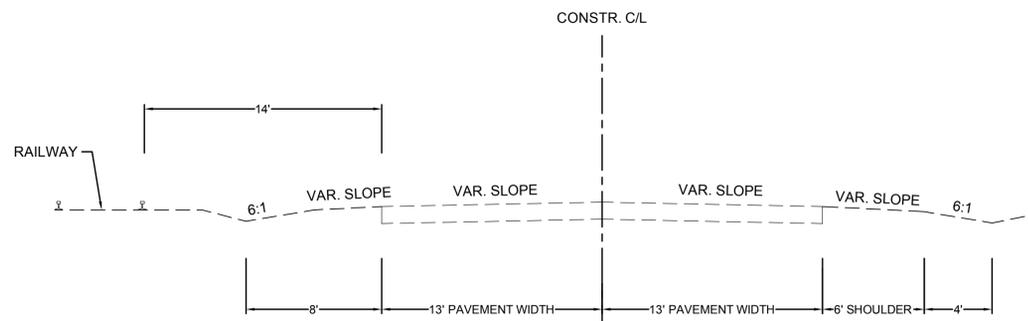
STA. 100+21.64 TO STA. 101+92.00 &  
136+92.00 TO STA. 138+17.00



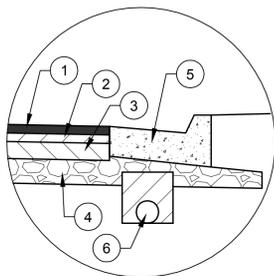
\* SEE PLANS AND CROSS SECTIONS FOR PAVEMENT WIDTHS, CROSS SLOPE AND CURB LOCATION. EACH VARIES TO TIE TO EXISTING PAVEMENT SECTIONS AND INTERSECTIONS.

### DEEPWATER TERMINAL ROAD

EXISTING ROADWAY AT NORTHERN PROJECT TERMINUS



### INSET A



- ① 1.5" ASPHALT CONCRETE SURFACE COURSE (SM-12.5D)
- ② 2.0" ASPHALT CONCRETE INTERMEDIATE COURSE (IM-19.0D)
- ③ 6.0" ASPHALT CONCRETE BASE COURSE (BM-25.0D)
- ④ 8.0" AGGREGATE BASE MATERIAL (VDOT TYPE 1, NO. 21B)
- ⑤ CITY STD. 9" MONOLITHIC CONCRETE CURB AND GUTTER
- ⑥ VDOT STD. UD-4 UNDERDRAIN

#### NOTES

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of April, 2014
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

#### Existing Curb

- Curb & Gutter
- Sidewalk
- Base
- Storm Sewer
- Sewer Manhole
- Sanitary Sewer (small)
- Sanitary Sewer (large)
- Gas Line
- Electric Line
- Telephone/Telegraph
- TV Cable
- Water Line
- Tree / Exist. Tree To Be Removed
- Property Line

#### Existing Curb Cut Ramp

- Coping
- Alley Crossing/Driveway
- Fire Hydrant
- Edge of Pavement
- Fence
- Cornerstone
- Property Pin
- Utility Pole
- Proposed Sewer
- Manhole
- Basin
- Curb & Gutter
- Asphalt

#### Proposed Conc. Sidewalk

- Brick Sidewalk
- Castings: Water Valve
- Water Meter
- Gas Drip
- Gas Valve
- Telephone Manhole
- Electric Manhole
- Proposed Curb Cut Ramp
- Decorative Light
- Conduit
- Conduit (Conc. Encased)
- Retaining Wall



#### Technical

- Surveys Superintendent
- Project Engineer
- Maintenance Engineer
- City Traffic Engineer

#### Administrative

- Capital Project Administrator
- Deputy Director for Transportation / Public Works
- Director of Public Works

DEPARTMENT OF PUBLIC WORKS  
RICHMOND, VIRGINIA

### DEEPWATER TERMINAL ROAD EXTENSION TYPICAL SECTION

DESIGN BY: M. FLEMING  
DRAWN BY: M. FLEMING  
CHECKED BY: C. KIEPPE

REVIEWED BY:

FIELD NOTES  
FB-XX, pp XX-XX

SCALE  
HORIZ. 1" = 5'  
VERT. N/A

DATE  
02/09/15

SHEET  
2

DRAWING NO.  
0-28602

SURVEYED BY: TIMMONS GROUP  
 SUPERVISED BY: C. KIEPPE  
 DESIGNED BY: M. FLEMING

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## GENERAL NOTES

- ALL UTILITY CLEARANCES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE OBTAINED PRIOR TO CONSTRUCTION. EXCAVATION WITHIN 1.5' OF GAS OR ELECTRIC LINES SHALL BE PERFORMED BY HAND.
- THE CONTRACTOR SHALL ADEQUATELY SUPPORT, AND BE RESPONSIBLE FOR, ALL UTILITY LINES EXPOSED AS A RESULT OF CONSTRUCTION ACTIVITY SHOWN ON THE PLANS.
- ALL PERMANENT STOP BARS, CROSS WALKS, ARROWS, MESSAGES, AND LANE LANES SHALL BE THERMOPLASTIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING PAVEMENT MARKINGS INCLUDING STOP BARS AND SOLID LINES ON ALL APPROACHES. MARKINGS SHALL BE LOCATED IN THE FIELD AS DIRECTED BY THE ENGINEER. EXISTING MARKINGS SHALL BE ERADICATED AS REQUIRED BY THE SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY THE SURVEYS DIVISION OF THE CITY OF RICHMOND'S DEPARTMENT OF PUBLIC WORKS (646-0436 OR 646-5404) AT LEAST 48 HOURS PRIOR TO ANY ACTIVITIES WHICH MAY DISTURB THE LOCATION OR THE STABILITY OF ANY RIGHT-OF-WAY CORNERSTONE OR MARKER. THE CONTRACTOR WILL COORDINATE HIS WORK WITH THE SURVEYS DIVISION REPRESENTATIVE REGARDING THE PLACEMENT OR REPLACEMENT OF R/W CORNERSTONES OR MARKERS IN ANY AREAS BEING AFFECTED BY CONSTRUCTION. ALL PLACEMENT OR REPLACEMENT OF R/W CORNERSTONES OR MARKERS WILL BE PERFORMED BY SURVEYS DIVISION. THE CONTRACTOR WILL BE RESPONSIBLE FOR REIMBURSING THE CITY FOR ANY COSTS ASSOCIATED WITH REPLACING ANY R/W CORNERSTONES OR MARKERS THAT ARE DISTURBED WITHOUT GIVING PROPER NOTIFICATION.
- ALL CONSTRUCTION AND MATERIALS TO CONFORM WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS DATED 2008, AND ROAD AND BRIDGE STANDARDS, DATED FEBRUARY 2007, AS AMENDED BY CONTRACT PROVISIONS AND THESE PLANS, AND CITY OF RICHMOND RIGHT-OF-WAY EXCAVATION AND RESTORATION MANUAL.
- IF THE ELEVATIONS SHOWN ON THESE PLANS ARE FOUND TO BE DIFFERENT THAN FIELD CONDITIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL ACQUIRE ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION, UNLESS OTHERWISE STATED. CONTRACTOR TO PAY ALL PERMIT FEES, UNLESS OTHERWISE STATED.
- EXISTING CONDITIONS SHOWN HEREON COMPILED FROM CITY OF RICHMOND GIS INFORMATION AND FIELD SURVEY DATA BY TIMMONS GROUP.

### DRAINAGE NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION'S ROAD AND BRIDGE SPECIFICATIONS DATED 2008, AND ROAD AND BRIDGE STANDARDS, DATED FEBRUARY 2007, AS AMENDED BY CONTRACT PROVISIONS AND THESE PLANS. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM WITH CITY OF RICHMOND STANDARDS AND SPECIFICATIONS, IF MORE STRINGENT.
- ALL CONCRETE PIPE JOINTS ARE TO BE SEALED ACCORDING TO VDOT STANDARDS AND SPECIFICATIONS.
- ALL STORM SEWERS SHALL BE ASTM, C-76, CLASS III, UNLESS NOTED OTHERWISE.
- ALL STORM SEWERS AND STRUCTURES SHALL HAVE A MINIMUM OF 4" PLUS 1/10 DIAMETER OF AGGREGATE BEDDING.
- ALL MANHOLE AND INLET INVERTS SHALL BE SHAPED IN ACCORDANCE WITH VDOT STANDARD IS-1, UNLESS OTHERWISE SPECIFIED.
- IF DURING CONSTRUCTION THE EXISTING CULVERT OR DITCH INVERT ELEVATIONS SHOWN ON THESE PLANS ARE FOUND TO DIFFER SIGNIFICANTLY FROM THE ELEVATIONS IN THE FIELD, NOTIFY THE ENGINEER IMMEDIATELY FOR AN ADJUSTMENT IN ELEVATIONS.
- ALL PIPE LENGTHS SHOWN ON PLANS ARE FROM CENTER OF CHAMBER TO CENTER OF CHAMBER, UNLESS NOTED OTHERWISE.
- TRENCH BOXES SHALL BE USED WHERE EXCAVATIONS EXCEED 5 FEET DEEP.

### CONSTRUCTION NOTES

- ALL WORK IS SUBJECT TO INSPECTION BY DPU INSPECTOR. NOTIFY APPROPRIATE CITY OFFICIALS 72 HOURS PRIOR TO START OF WORK.
- CALL "MISS UTILITY" OF CENTRAL VIRGINIA 1-800-552-7001 (TOLL FREE) PRIOR TO CONSTRUCTION. VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN, IF THERE APPEARS TO BE A CONFLICT, OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLANS.
- TAKE ALL NECESSARY PRECAUTIONS TO PROTECT AND MAINTAIN UNINTERRUPTED UTILITY SERVICE AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE CITY UTILITY INSPECTOR, AT THE CONTRACTOR'S EXPENSE.
- DEVELOP A UTILITIES RELOCATION PLAN AS NECESSARY. SEQUENCE RELOCATION FOR THE MOST EFFICIENT CONSTRUCTION AND TO AVOID DELAYS. DECIDE IF RELOCATION SHOULD TAKE PLACE PRIOR TO, DURING, OR AFTER COMPLETION OF STORM SEWER AND PROCEED ACCORDINGLY.
- MAINTAIN SAFE VEHICULAR AND PEDESTRIAN ACCESS TO ALL PROPERTIES THROUGHOUT CONSTRUCTION AND PREPARE A TRAFFIC MAINTENANCE PLAN IF REQUIRED BY THE CITY. ANY DEVIATIONS FROM THIS PLAN SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER PRIOR TO IMPLEMENTATION.
- REMOVE UNSUITABLE MATERIAL IF ENCOUNTERED AND REPLACE WITH SUITABLE MATERIAL TO THE SPECIFICATION OF THE CITY INSPECTOR.
- IF TREES DESIGNATED "TO REMAIN" ARE LOCATED WITHIN 10' OF CONSTRUCTION LIMITS, CONTACT DPW URBAN FORESTRY 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- PROVIDE TEMPORARY DRAINAGE WITHIN THE PROJECT LIMITS DURING CONSTRUCTION OR TO RELIEVE AREAS THAT MAY CAUSE DAMAGE TO ROADWAYS OR IMPEDE TRAFFIC AS DIRECTED BY THE CITY OF RICHMOND INSPECTOR.
- CLEAN ALL DRAINAGE PIPES AND STRUCTURES OF DEBRIS AND ERODED MATERIAL AT ALL STAGES OF CONSTRUCTION TO THE SATISFACTION OF THE CITY OF RICHMOND INSPECTOR.
- REFER TO THE LATEST VERSION OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS.
- PERFORM ALL CUTS IN THE STREETS UNDER A WORK IN STREET PERMIT. WORK SHALL BE MONITORED BY THE PERMIT INSPECTOR.
- DO NOT BEGIN WORK UNTIL THE PERMIT INSPECTOR HAS BEEN NOTIFIED, A PRE-CONSTRUCTION CONFERENCE HAS BEEN HELD AND MISS UTILITY HAS MARKED ALL UTILITIES.
- ASPHALT PAVEMENT CUTS SHALL BE AS CLEAN AND STRAIGHT AS POSSIBLE, WITH NO OUTLINE DIMENSIONS LESS THAN 3 FEET WITHOUT SPECIAL APPROVAL OF THE PERMIT INSPECTOR. REFER TO DETAIL ON THIS SHEET FOR PAVEMENT RESTORATION.
- FINAL ACCEPTANCE BY THE CITY SHALL NOT BE MADE UNTIL ALL WORK SHOWN ON THE APPROVED PLANS IS COMPLETE.

## TRAFFIC MANAGEMENT PLAN NARRATIVE

- CONSTRUCTION FOR THIS PROJECT WILL TAKE PLACE PRIMARILY ALONG A GRAVEL ACCESS ROAD WITH NO SIGNIFICANT TRAFFIC. A FULL CLOSURE OF THE ACCESS ROAD IS PLANNED FROM THE BEGINNING OF THE PROJECT TO THE ULTIMATE CONNECTION AT THE NORTHERN PROJECT TERMINUS. THE CLOSURE AND ACCESS TO INDUSTRIAL USE PARCELS ALONG THE ACCESS ROAD SHALL BE COORDINATED WITH THE APPROPRIATE LAND OWNERS AND THE CITY DPW. ACCESS TO THE VULCAN PROPERTY AT THE NORTH END OF THE PROJECT AT GOODES STREET SHALL BE MAINTAINED TO THE FULL EXTENT PRACTICAL. INTERSECTION IMPROVEMENTS AT BOTH ENDS OF THE PROJECT REQUIRING LANE CLOSURES SHALL BE IN ACCORDANCE WITH THIS PLAN. A MAJORITY OF THE CONSTRUCTION WILL BE COMPLETED WITH NO IMPACT TO THE TRAVELING PUBLIC. THE PROJECT SHALL BE COMPLETE WITH FINAL STRIPING AND SIGNING IN PLACE PRIOR TO OPENING OF THE ROAD.
- THE WORK ZONE SHALL BE MAINTAINED ACCORDING TO THE CITY'S DEPARTMENT OF PUBLIC WORKS SPECIAL PROVISIONS AND THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL. SPECIFICALLY, THE FOLLOWING 2011 VA WAPM TRAFFIC CONTROL SPECIFICATIONS OR A COMBINATION OF SUCH WILL BE USED REGULARLY:
  - TYPICAL TRAFFIC CONTROL (TTC) STATIONARY OPERATION ON SHOULDER (FIGURE TTC-4.0)
  - TTC SHOULDER OPERATION WITH MINOR ENCROACHMENT (FIGURE TTC-5.0)
  - TTC ROAD CLOSURE OPERATION WITH A DETOUR (FIGURE TTC-48.0)
  - TTC SIGNING FOR PROJECT LIMITS (FIGURE TTC-53.0)

NOTE: THIS OPERATION IS IN A LOW-TRAFFIC, INDUSTRIAL SETTING, THE TTC FIGURES ABOVE ARE FOR REFERENCE ONLY. ANY COMBINATION OF THE ABOVE OR TTC'S NOT LISTED ABOVE MAY BE NECESSARY. DETOUR SIGNS AS SHOWN IN FIGURE TTC-48.0 MAY BE OMITTED AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR SHALL INSTALL ALL NECESSARY SIGNS, MARKINGS, DELINEATORS OR OTHER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CITY'S DPU SPECIAL PROVISIONS AND THE 2011 VA WAPM.
- THE CONTRACTOR WILL MAKE ARRANGEMENTS TO STORE EQUIPMENT AND MATERIALS ON-SITE.
- A PUBLIC COMMUNICATIONS PLAN IS NOT APPLICABLE TO THIS PROJECT ALTHOUGH PLANNED LANE CLOSURES SHALL BE ANNOUNCED TO THE ADJACENT LAND OWNERS.

## TRANSPORTATION OPERATIONS PLAN

- THE CONTRACTOR MUST ADVISE EMERGENCY COMMUNICATIONS AT 646-5700 OF THE CITY ON ALL PLANNED LANE CLOSURES 24 HOURS IN ADVANCE.
- TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE:
  - INSPECTOR SHALL NOTIFY ENGINEER OF THE TRAFFIC INCIDENT AND TAKE PICTURES OF THE WORK ZONE SETUP.
  - CONTRACTOR MAY HAVE TO SHUT DOWN THE WORK DEPENDING UPON THE INCIDENT SEVERITY.
  - THE CITY POLICE WILL DETERMINE THE RESPONSE NECESSARY TO ALLOW TRAVELING PUBLIC AROUND INCIDENT, TAKE CONTROL OF THE INCIDENT, AND DIRECT ITS CLEARING AND RESTORATION TO NORMAL TRAFFIC CONDITIONS.
- THE CITY POLICE INCIDENT REPORT WILL BE REVIEWED BY THE ENGINEER TO DETERMINE ANY NEEDED MODIFICATIONS TO THE WORK ZONE LAYOUT. IF CHANGES ARE NECESSARY THEN A MEETING WILL BE CALLED WITH THE CONTRACTOR, CITY INSPECTOR AND THE ENGINEER TO DISCUSS MODIFICATION AND IMPLEMENTATION OF AN IMPROVED TRAFFIC CONTROL PLAN.
- ALL LANE CLOSURES AND STOPPING OF TRAFFIC FOR LONGER THAN FIVE MINUTES SHALL BE COORDINATED WITH THE ENGINEER, CITY OF RICHMOND DEPARTMENT OF PUBLIC WORKS AND IMPACTED PROPERTY OWNERS.
- ALL AREAS EXCAVATED DEEPER THAN 2" BELOW EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE, AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACK FILLED TO FORM AN APPROXIMATE 6:1 WEDGE AGAINST THE PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. ALL COST OF PLACING, MAINTAINING AND REMOVING THE 6:1 WEDGE SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THIS APPLIES ONLY TO THE CONNECTION POINTS AT DEEPWATER TERMINAL ROAD AND GOODES STREET WHERE TRAFFIC IS PRESENT.
- LANE CLOSURES WILL NOT BE PERMITTED ON HOLIDAYS OR WEEKENDS UNLESS OTHERWISE APPROVED IN ADVANCE BY THE CITY OF RICHMOND DEPARTMENT OF PUBLIC WORKS.

TIMMONS GROUP  
 SUPERVISED BY: C. KIEFER  
 DESIGNED BY: M. FLEMING

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#### NOTES

- Lot dimensions in parentheses are from deed.
- Property owners correct as of April, 2014
- Ordinance Number N/A
- Adopted N/A
- Accepted N/A

#### REVISIONS

NO.	DESCRIPTION	DATE

#### LEGEND

Symbol	Description
	Curb & Gutter
	Sidewalk
	Basin
	Storm Sewer
	Sewer Manhole
	Sanitary Sewer (small)
	Sanitary Sewer (large)
	Gas Line
	Electric Line
	Telephone/Telegraph
	TV Cable
	Water Line
	Tree / Exist. Tree To Be Removed
	Property Line
	Existing Curb Cut Ramp
	Coping
	Alley Crossing/Driveway
	Fire Hydrant
	Edge of Pavement
	Fence
	Cornerstone
	Property Pin
	Utility Pole
	Proposed Sewer
	Manhole
	Basin
	Curb & Gutter
	Asphalt
	Proposed Conc. Sidewalk
	Brick Sidewalk
	Castings: Water Valve
	Water Meter
	Gas Drip
	Gas Valve
	Telephone Manhole
	Electric Manhole
	Proposed Curb Cut Ramp
	Decorative Light
	Conduit
	Conduit (Conc. Encased)
	Retaining Wall



#### Technical


#### Administrative


DEPARTMENT OF PUBLIC WORKS  
RICHMOND, VIRGINIA

## DEEPWATER TERMINAL ROAD EXTENSION GENERAL NOTES & MAINTENANCE OF TRAFFIC

DESIGN BY: M. FLEMING	REVIEWED BY:	FIELD NOTES: FB-KK, pp 12-14	SCALE: HORIZ. N/A VERT. N/A	DATE: 02/09/15	SHEET: 2A	DRAWING NO.: 0-28602
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DEEPWATER  
TERMINAL RD

TIE TO EXIST. C/L  
100+00.00  
BEGIN TRANSITION  
TO TIE TO EXIST. C/L  
(STA. 110+70)

101

102

103

104

105

106

PROP. DEEPWATER  
TERMINAL RD

MATCHLINE BELOW - STA. 106+50.00

**KEY LEGEND**

- 1. 4" DOUBLE SOLID YELLOW LINE
- 2. 24" SOLID WHITE STOP BAR

EX. TURN ARROWS (FOR REFERENCE ONLY)

LEFT & RIGHT TURN ARROW

LEFT / RIGHT TURN ARROW

THROUGH/DIRECTIONAL ARROW FOR INFORMATION ONLY (DO NOT STRIPE)

R1-1  
30" x 30"

W3-1  
30" x 30"



MATCHLINE ABOVE - STA. 106+50.00

107

108

109

110

111

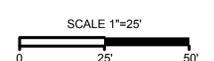
112

113

114

PROP. DEEPWATER  
TERMINAL RD

MATCHLINE SHEET 2B(2) - STA. 114+00.00



SURVEYED BY: TIMMONS GROUP  
SUPERVISED BY: C. KIEFER  
DESIGNED BY: M. FLEMING

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**NOTES**

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of April, 2014
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

Existing Curb	Existing	Proposed
Curb & Gutter	Existing Curb Cut Ramp	Proposed Conc. Sidewalk
Sidewalk	Coping	Brick Sidewalk
Basin	Alley Crossing/Driveway	Castings: Water Valve
Storm Sewer	Fire Hydrant	Water Meter
Sewer Manhole	Edge of Pavement	Gas Drip
Sanitary Sewer (sewer)	Fence	Gas Valve
Sanitary Sewer (sewer man)	Cornerstone	Telephone Manhole
Gas Line	Property Pin	Electric Manhole
Electric Line	Utility Pole	Proposed Curb Cut Ramp
Telephone/Telegaph	Manhole	Decorative Light
TV Cable	Basin	Conduit
Water Line	Curb & Gutter	Conduit (Conc. Encased)
Tree / Exist. Tree To Be Removed	Asphalt	Retaining Wall
Property Line		



Technical	Administrative
Surveys Superintendent	
Project Engineer	Capital Project Administrator
Maintenance Engineer	Deputy Director for Transportation / Public Works
City Traffic Engineer	Director of Public Works

DEPARTMENT OF PUBLIC WORKS  
RICHMOND, VIRGINIA

DEEPWATER TERMINAL ROAD EXTENSION  
PAVEMENT MARKING &  
SIGNING PLAN

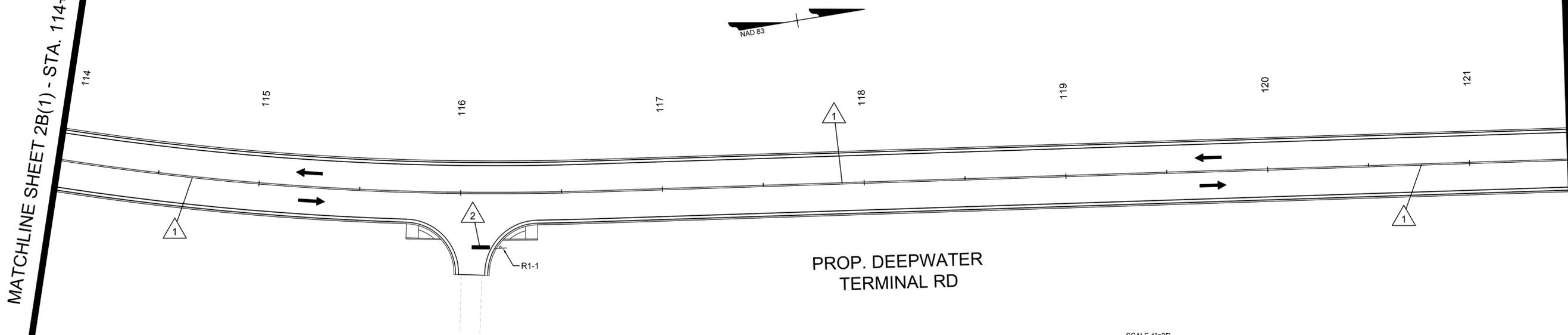
DESIGN BY: M. FLEMING	REVIEWED BY:	FIELD NOTES: FB-XX, pp XX-XX	SCALE: HORIZ. 1" = 25'	DATE: 02/09/15	SHEET: 2B(1)	DRAWING NO.: 0-28602
DRAWN BY: M. FLEMING	CHECKED BY: C. KIEFER		VERT. N/A			

WATER, CITY ELECTRICAL, GAS, SANITARY SEWER AND STORM SEWER

CITY OF RICHMOND, DPU  
 CONTACT: CITY OF RICHMOND  
 DEPARTMENT OF PUBLIC UTILITIES  
 MICHELLE FORD, GIS TECHNICIAN WATER DATA OFFICER  
 400 JEFFERSON DAVIS HIGHWAY  
 RICHMOND, VA 23224  
 PHONE: (804)-646-8415  
 MOBILE: (804)-646-8502  
 FAX: (804)-646-8545  
 MICHELLE.FORD@RICHMONDGOV.COM

MATCHLINE SHEET 2B(1) - STA. 114+00.00

MATCHLINE BELOW - STA. 121+50.00



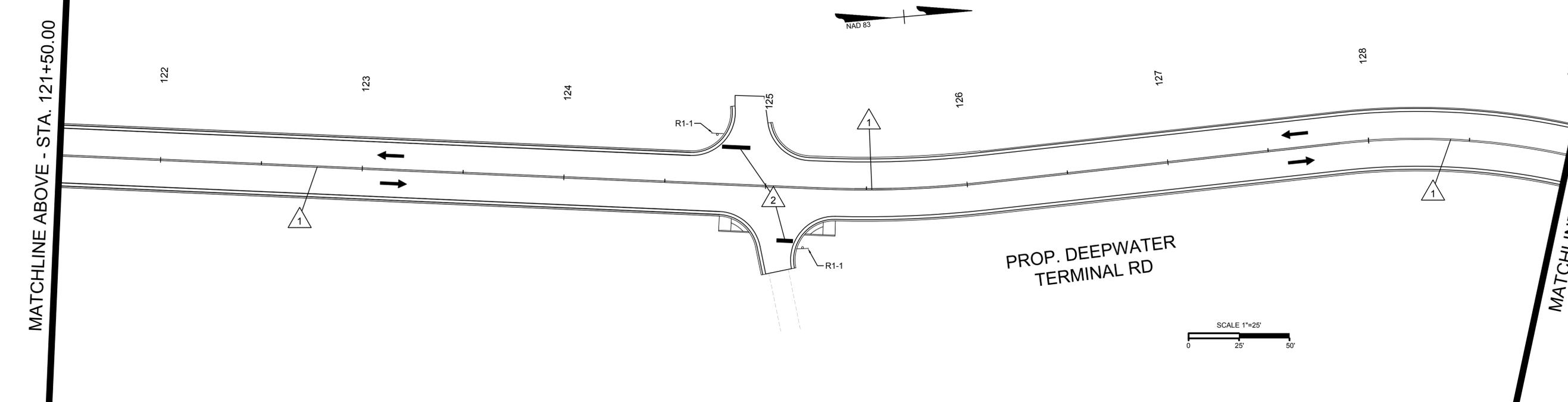
**KEY LEGEND**

	EX. TURN ARROWS (FOR REFERENCE ONLY)		
1. 4" DOUBLE SOLID YELLOW LINE	LEFT & RIGHT TURN ARROW	R1-1 30" x 30"	W3-1 30" x 30"
2. 24" SOLID WHITE STOP BAR	LEFT / RIGHT TURN ARROW		
	THROUGH/DIRECTIONAL ARROW FOR INFORMATION ONLY (DO NOT STRIPE)		

MOBILE: (804)-646-8502  
 FAX: (804)-646-8545  
 MICHELLE.FORD@RICHMONDGOV.COM

MATCHLINE ABOVE - STA. 121+50.00

MATCHLINE SHEET 2B(3) - STA. 129+00.00



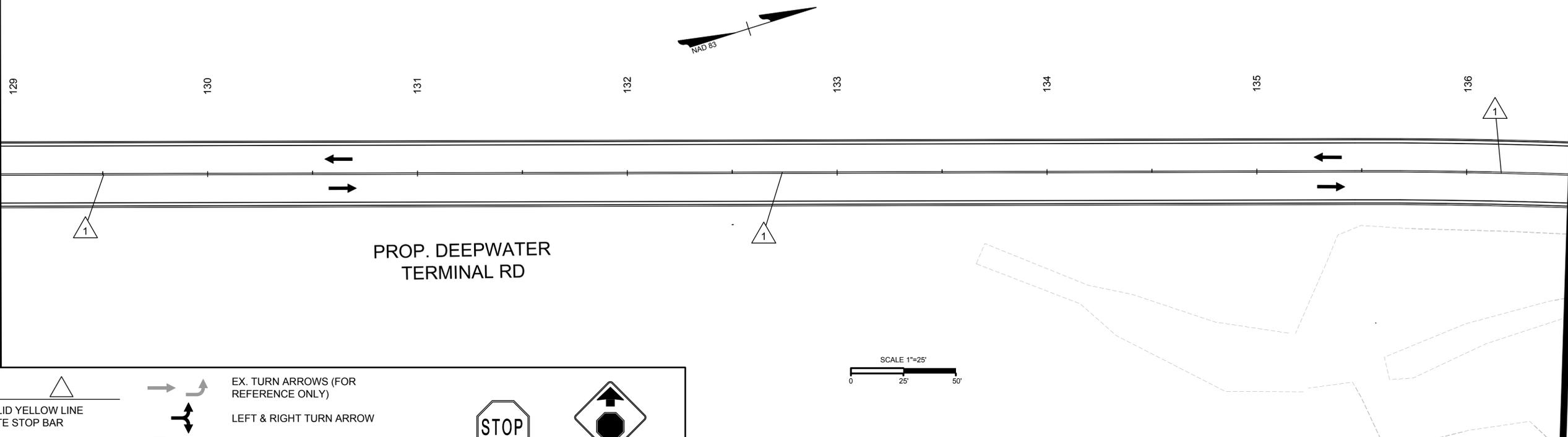
**NOTES**  
 1. Lot dimensions in parentheses are from deed.  
 2. Property owners correct as of April, 2014  
 3. Ordinance Number N/A  
 4. Adopted N/A  
 5. Accepted N/A

Existing Curb	Existing Sanitary Sewer	Existing Storm Sewer	Existing Gas	Existing Electric	Existing Telephone	Existing TV Cable	Existing Water	Existing Tree	Existing Property Line
Curb & Gutter	Sanitary Sewer (6" dia)	Storm Sewer (18" dia)	Gas (8" dia)	Electric (4" dia)	Telephone (2" dia)	TV Cable (1" dia)	Water (8" dia)	Tree / Exist. Tree To Be Removed	Property Line
Sidewalk	Sanitary Sewer (12" dia)	Storm Sewer (24" dia)	Gas (12" dia)	Electric (6" dia)	Telephone (4" dia)	TV Cable (2" dia)	Water (12" dia)		
Basin	Sanitary Sewer (18" dia)	Storm Sewer (30" dia)	Gas (16" dia)	Electric (8" dia)	Telephone (6" dia)	TV Cable (3" dia)	Water (16" dia)		
Manhole	Sanitary Sewer (24" dia)	Storm Sewer (36" dia)	Gas (20" dia)	Electric (10" dia)	Telephone (8" dia)	TV Cable (4" dia)	Water (20" dia)		
Manhole	Sanitary Sewer (30" dia)	Storm Sewer (42" dia)	Gas (24" dia)	Electric (12" dia)	Telephone (10" dia)	TV Cable (5" dia)	Water (24" dia)		
Manhole	Sanitary Sewer (36" dia)	Storm Sewer (48" dia)	Gas (28" dia)	Electric (14" dia)	Telephone (12" dia)	TV Cable (6" dia)	Water (28" dia)		
Manhole	Sanitary Sewer (42" dia)	Storm Sewer (54" dia)	Gas (32" dia)	Electric (16" dia)	Telephone (14" dia)	TV Cable (7" dia)	Water (32" dia)		
Manhole	Sanitary Sewer (48" dia)	Storm Sewer (60" dia)	Gas (36" dia)	Electric (18" dia)	Telephone (16" dia)	TV Cable (8" dia)	Water (36" dia)		
Manhole	Sanitary Sewer (54" dia)	Storm Sewer (66" dia)	Gas (40" dia)	Electric (20" dia)	Telephone (18" dia)	TV Cable (9" dia)	Water (40" dia)		
Manhole	Sanitary Sewer (60" dia)	Storm Sewer (72" dia)	Gas (44" dia)	Electric (22" dia)	Telephone (20" dia)	TV Cable (10" dia)	Water (44" dia)		
Manhole	Sanitary Sewer (66" dia)	Storm Sewer (78" dia)	Gas (48" dia)	Electric (24" dia)	Telephone (22" dia)	TV Cable (11" dia)	Water (48" dia)		
Manhole	Sanitary Sewer (72" dia)	Storm Sewer (84" dia)	Gas (52" dia)	Electric (26" dia)	Telephone (24" dia)	TV Cable (12" dia)	Water (52" dia)		
Manhole	Sanitary Sewer (78" dia)	Storm Sewer (90" dia)	Gas (56" dia)	Electric (28" dia)	Telephone (26" dia)	TV Cable (13" dia)	Water (56" dia)		
Manhole	Sanitary Sewer (84" dia)	Storm Sewer (96" dia)	Gas (60" dia)	Electric (30" dia)	Telephone (28" dia)	TV Cable (14" dia)	Water (60" dia)		
Manhole	Sanitary Sewer (90" dia)	Storm Sewer (102" dia)	Gas (64" dia)	Electric (32" dia)	Telephone (30" dia)	TV Cable (15" dia)	Water (64" dia)		
Manhole	Sanitary Sewer (96" dia)	Storm Sewer (108" dia)	Gas (68" dia)	Electric (34" dia)	Telephone (32" dia)	TV Cable (16" dia)	Water (68" dia)		
Manhole	Sanitary Sewer (102" dia)	Storm Sewer (114" dia)	Gas (72" dia)	Electric (36" dia)	Telephone (34" dia)	TV Cable (17" dia)	Water (72" dia)		
Manhole	Sanitary Sewer (108" dia)	Storm Sewer (120" dia)	Gas (76" dia)	Electric (38" dia)	Telephone (36" dia)	TV Cable (18" dia)	Water (76" dia)		
Manhole	Sanitary Sewer (114" dia)	Storm Sewer (126" dia)	Gas (80" dia)	Electric (40" dia)	Telephone (38" dia)	TV Cable (19" dia)	Water (80" dia)		
Manhole	Sanitary Sewer (120" dia)	Storm Sewer (132" dia)	Gas (84" dia)	Electric (42" dia)	Telephone (40" dia)	TV Cable (20" dia)	Water (84" dia)		
Manhole	Sanitary Sewer (126" dia)	Storm Sewer (138" dia)	Gas (88" dia)	Electric (44" dia)	Telephone (42" dia)	TV Cable (21" dia)	Water (88" dia)		
Manhole	Sanitary Sewer (132" dia)	Storm Sewer (144" dia)	Gas (92" dia)	Electric (46" dia)	Telephone (44" dia)	TV Cable (22" dia)	Water (92" dia)		
Manhole	Sanitary Sewer (138" dia)	Storm Sewer (150" dia)	Gas (96" dia)	Electric (48" dia)	Telephone (46" dia)	TV Cable (23" dia)	Water (96" dia)		
Manhole	Sanitary Sewer (144" dia)	Storm Sewer (156" dia)	Gas (100" dia)	Electric (50" dia)	Telephone (48" dia)	TV Cable (24" dia)	Water (100" dia)		
Manhole	Sanitary Sewer (150" dia)	Storm Sewer (162" dia)	Gas (104" dia)	Electric (52" dia)	Telephone (50" dia)	TV Cable (25" dia)	Water (104" dia)		
Manhole	Sanitary Sewer (156" dia)	Storm Sewer (168" dia)	Gas (108" dia)	Electric (54" dia)	Telephone (52" dia)	TV Cable (26" dia)	Water (108" dia)		
Manhole	Sanitary Sewer (162" dia)	Storm Sewer (174" dia)	Gas (112" dia)	Electric (56" dia)	Telephone (54" dia)	TV Cable (27" dia)	Water (112" dia)		
Manhole	Sanitary Sewer (168" dia)	Storm Sewer (180" dia)	Gas (116" dia)	Electric (58" dia)	Telephone (56" dia)	TV Cable (28" dia)	Water (116" dia)		
Manhole	Sanitary Sewer (174" dia)	Storm Sewer (186" dia)	Gas (120" dia)	Electric (60" dia)	Telephone (58" dia)	TV Cable (29" dia)	Water (120" dia)		
Manhole	Sanitary Sewer (180" dia)	Storm Sewer (192" dia)	Gas (124" dia)	Electric (62" dia)	Telephone (60" dia)	TV Cable (30" dia)	Water (124" dia)		
Manhole	Sanitary Sewer (186" dia)	Storm Sewer (198" dia)	Gas (128" dia)	Electric (64" dia)	Telephone (62" dia)	TV Cable (31" dia)	Water (128" dia)		
Manhole	Sanitary Sewer (192" dia)	Storm Sewer (204" dia)	Gas (132" dia)	Electric (66" dia)	Telephone (64" dia)	TV Cable (32" dia)	Water (132" dia)		
Manhole	Sanitary Sewer (198" dia)	Storm Sewer (210" dia)	Gas (136" dia)	Electric (68" dia)	Telephone (66" dia)	TV Cable (33" dia)	Water (136" dia)		
Manhole	Sanitary Sewer (204" dia)	Storm Sewer (216" dia)	Gas (140" dia)	Electric (70" dia)	Telephone (68" dia)	TV Cable (34" dia)	Water (140" dia)		
Manhole	Sanitary Sewer (210" dia)	Storm Sewer (222" dia)	Gas (144" dia)	Electric (72" dia)	Telephone (70" dia)	TV Cable (35" dia)	Water (144" dia)		
Manhole	Sanitary Sewer (216" dia)	Storm Sewer (228" dia)	Gas (148" dia)	Electric (74" dia)	Telephone (72" dia)	TV Cable (36" dia)	Water (148" dia)		
Manhole	Sanitary Sewer (222" dia)	Storm Sewer (234" dia)	Gas (152" dia)	Electric (76" dia)	Telephone (74" dia)	TV Cable (37" dia)	Water (152" dia)		
Manhole	Sanitary Sewer (228" dia)	Storm Sewer (240" dia)	Gas (156" dia)	Electric (78" dia)	Telephone (76" dia)	TV Cable (38" dia)	Water (156" dia)		
Manhole	Sanitary Sewer (234" dia)	Storm Sewer (246" dia)	Gas (160" dia)	Electric (80" dia)	Telephone (78" dia)	TV Cable (39" dia)	Water (160" dia)		
Manhole	Sanitary Sewer (240" dia)	Storm Sewer (252" dia)	Gas (164" dia)	Electric (82" dia)	Telephone (80" dia)	TV Cable (40" dia)	Water (164" dia)		
Manhole	Sanitary Sewer (246" dia)	Storm Sewer (258" dia)	Gas (168" dia)	Electric (84" dia)	Telephone (82" dia)	TV Cable (41" dia)	Water (168" dia)		
Manhole	Sanitary Sewer (252" dia)	Storm Sewer (264" dia)	Gas (172" dia)	Electric (86" dia)	Telephone (84" dia)	TV Cable (42" dia)	Water (172" dia)		
Manhole	Sanitary Sewer (258" dia)	Storm Sewer (270" dia)	Gas (176" dia)	Electric (88" dia)	Telephone (86" dia)	TV Cable (43" dia)	Water (176" dia)		
Manhole	Sanitary Sewer (264" dia)	Storm Sewer (276" dia)	Gas (180" dia)	Electric (90" dia)	Telephone (88" dia)	TV Cable (44" dia)	Water (180" dia)		
Manhole	Sanitary Sewer (270" dia)	Storm Sewer (282" dia)	Gas (184" dia)	Electric (92" dia)	Telephone (90" dia)	TV Cable (45" dia)	Water (184" dia)		
Manhole	Sanitary Sewer (276" dia)	Storm Sewer (288" dia)	Gas (188" dia)	Electric (94" dia)	Telephone (92" dia)	TV Cable (46" dia)	Water (188" dia)		
Manhole	Sanitary Sewer (282" dia)	Storm Sewer (294" dia)	Gas (192" dia)	Electric (96" dia)	Telephone (94" dia)	TV Cable (47" dia)	Water (192" dia)		
Manhole	Sanitary Sewer (288" dia)	Storm Sewer (300" dia)	Gas (196" dia)	Electric (98" dia)	Telephone (96" dia)	TV Cable (48" dia)	Water (196" dia)		
Manhole	Sanitary Sewer (294" dia)	Storm Sewer (306" dia)	Gas (200" dia)	Electric (100" dia)	Telephone (98" dia)	TV Cable (49" dia)	Water (200" dia)		
Manhole	Sanitary Sewer (300" dia)	Storm Sewer (312" dia)	Gas (204" dia)	Electric (102" dia)	Telephone (100" dia)	TV Cable (50" dia)	Water (204" dia)		
Manhole	Sanitary Sewer (306" dia)	Storm Sewer (318" dia)	Gas (208" dia)	Electric (104" dia)	Telephone (102" dia)	TV Cable (51" dia)	Water (208" dia)		
Manhole	Sanitary Sewer (312" dia)	Storm Sewer (324" dia)	Gas (212" dia)	Electric (106" dia)	Telephone (104" dia)	TV Cable (52" dia)	Water (212" dia)		
Manhole	Sanitary Sewer (318" dia)	Storm Sewer (330" dia)	Gas (216" dia)	Electric (108" dia)	Telephone (106" dia)	TV Cable (53" dia)	Water (216" dia)		
Manhole	Sanitary Sewer (324" dia)	Storm Sewer (336" dia)	Gas (220" dia)	Electric (110" dia)	Telephone (108" dia)	TV Cable (54" dia)	Water (220" dia)		
Manhole	Sanitary Sewer (330" dia)	Storm Sewer (342" dia)	Gas (224" dia)	Electric (112" dia)	Telephone (110" dia)	TV Cable (55" dia)	Water (224" dia)		
Manhole	Sanitary Sewer (336" dia)	Storm Sewer (348" dia)	Gas (228" dia)	Electric (114" dia)	Telephone (112" dia)	TV Cable (56" dia)	Water (228" dia)		
Manhole	Sanitary Sewer (342" dia)	Storm Sewer (354" dia)	Gas (232" dia)	Electric (116" dia)	Telephone (114" dia)	TV Cable (57" dia)	Water (232" dia)		
Manhole	Sanitary Sewer (348" dia)	Storm Sewer (360" dia)	Gas (236" dia)	Electric (118" dia)	Telephone (116" dia)	TV Cable (58" dia)	Water (236" dia)		
Manhole	Sanitary Sewer (354" dia)	Storm Sewer (366" dia)	Gas (240" dia)	Electric (120" dia)	Telephone (118" dia)	TV Cable (59" dia)	Water (240" dia)		
Manhole	Sanitary Sewer (360" dia)	Storm Sewer (372" dia)	Gas (244" dia)	Electric (122" dia)	Telephone (120" dia)	TV Cable (60" dia)	Water (244" dia)		
Manhole	Sanitary Sewer (366" dia)	Storm Sewer (378" dia)	Gas (248" dia)	Electric (124" dia)	Telephone (122" dia)	TV Cable (61" dia)	Water (248" dia)		
Manhole	Sanitary Sewer (372" dia)	Storm Sewer (384" dia)	Gas (252" dia)	Electric (126" dia)	Telephone (124" dia)	TV Cable (62" dia)	Water (252" dia)		
Manhole	Sanitary Sewer (378" dia)	Storm Sewer (390" dia)	Gas (256" dia)	Electric (128" dia)	Telephone (126" dia)	TV Cable (63" dia)	Water (256" dia)		
Manhole	Sanitary Sewer (384" dia)	Storm Sewer (396" dia)	Gas (260" dia)	Electric (130" dia)	Telephone (128" dia)	TV Cable (64" dia)	Water (260" dia)		
Manhole	Sanitary Sewer (390" dia)	Storm Sewer (402" dia)	Gas (264" dia)	Electric (132" dia)	Telephone (130" dia)	TV Cable (65" dia)	Water (264" dia)		
Manhole	Sanitary Sewer (396" dia)	Storm Sewer (408" dia)	Gas (268" dia)	Electric (134" dia)	Telephone (132" dia)	TV Cable (66" dia)	Water (268" dia)		
Manhole	Sanitary Sewer (402" dia)	Storm Sewer (414" dia)	Gas (272" dia)	Electric (136" dia)	Telephone (134" dia)	TV Cable (67" dia)	Water (272" dia)		
Manhole	Sanitary Sewer (408" dia)	Storm Sewer (420" dia)	Gas (276" dia)	Electric (138" dia)	Telephone (136" dia)	TV Cable (68" dia)	Water (276" dia)		
Manhole	Sanitary Sewer (414" dia)	Storm Sewer (426" dia)	Gas (280" dia)	Electric (140" dia)	Telephone (138" dia)	TV Cable (69" dia)	Water (280" dia)		
Manhole	Sanitary Sewer (420" dia)	Storm Sewer (432" dia)	Gas (284" dia)	Electric (142" dia)	Telephone (140" dia)	TV Cable (70" dia)	Water (284" dia)		
Manhole	Sanitary Sewer (426" dia)	Storm Sewer (438" dia)	Gas (288" dia)	Electric (144" dia)	Telephone (142" dia)	TV Cable (71" dia)	Water (288" dia)		
Manhole	Sanitary Sewer (432" dia)	Storm Sewer (444" dia)	Gas (292" dia)	Electric (146" dia)	Telephone (144" dia)	TV Cable (72" dia)	Water (292" dia)		
Manhole	Sanitary Sewer (438" dia)	Storm Sewer (450" dia)	Gas (296" dia)	Electric (148" dia)	Telephone (146" dia)	TV Cable (73" dia)	Water (296" dia)		
Manhole	Sanitary Sewer (444" dia)	Storm Sewer (456" dia)	Gas (300" dia)	Electric (150" dia)	Telephone (148" dia)	TV Cable (74" dia)	Water (300" dia)		
Manhole	Sanitary Sewer (450" dia)	Storm Sewer (462" dia)	Gas (304" dia)	Electric (152" dia)	Telephone (150" dia)	TV Cable (75" dia)	Water (304" dia)		
Manhole	Sanitary Sewer (456" dia)	Storm Sewer (468" dia)	Gas (308" dia)	Electric (154" dia)	Telephone (152" dia)	TV Cable (76" dia)	Water (308" dia)		
Manhole	Sanitary Sewer (462" dia)	Storm Sewer (474" dia)	Gas (312" dia)	Electric (156" dia)	Telephone (154" dia)	TV Cable (77" dia)	Water (312" dia)		
Manhole	Sanitary Sewer (468" dia)	Storm Sewer (480" dia)	Gas (316" dia)	Electric (158" dia)	Telephone (156" dia)	TV Cable (78" dia)	Water (316" dia)		
Manhole	Sanitary Sewer (474" dia)	Storm Sewer (486" dia)	Gas (320" dia)	Electric (160" dia)	Telephone (158" dia)	TV Cable (79" dia)	Water (320" dia)		
Manhole	Sanitary Sewer (480" dia)	Storm Sewer (492" dia)	Gas (324" dia)	Electric (162" dia)	Telephone (160" dia)	TV Cable (80" dia)	Water (324" dia)		
Manhole	Sanitary Sewer (486" dia)	Storm Sewer (498" dia)	Gas (328" dia)	Electric (164" dia)	Telephone (162" dia)	TV Cable (81" dia)	Water (328" dia)		
Manhole	Sanitary Sewer (492" dia)	Storm Sewer (504" dia)	Gas (332" dia)	Electric (166" dia)	Telephone (164" dia)	TV Cable (82" dia)	Water (332" dia)		
Manhole	Sanitary Sewer (498" dia)	Storm Sewer (510" dia)	Gas (336" dia)	Electric (168" dia)	Telephone (166" dia)	TV Cable (83" dia)	Water (336" dia)		
Manhole	Sanitary Sewer (504" dia)	Storm Sewer (516" dia)	Gas (340" dia)	Electric (170" dia)	Telephone (168" dia)	TV Cable (84" dia)	Water (340" dia)		
Manhole	Sanitary Sewer (510" dia)	Storm Sewer (522" dia)	Gas (344" dia)	Electric (172" dia)	Telephone (170" dia)	TV Cable (85" dia)	Water (344" dia)		
Manhole	Sanitary Sewer (516" dia)	Storm Sewer (528" dia)	Gas (348" dia)	Electric (174" dia)	Telephone (172" dia)	TV Cable (86" dia)	Water (348" dia)		
Manhole	Sanitary Sewer (522" dia)	Storm Sewer (534" dia)	Gas (352" dia)	Electric (176" dia)	Telephone (174" dia)	TV Cable (87" dia)	Water (352" dia)		
Manhole	Sanitary Sewer (528" dia)	Storm Sewer (540" dia)	Gas (356" dia)	Electric (178" dia)	Telephone (176" dia)	TV Cable (88" dia)	Water (356" dia)		
Manhole	Sanitary Sewer (534" dia)	Storm Sewer (546" dia)	Gas (360" dia)	Electric (180" dia)	Telephone (178" dia)	TV Cable (89" dia)	Water (360" dia)		
Manhole	Sanitary Sewer (540" dia)	Storm Sewer (552" dia)	Gas (364" dia)	Electric (182" dia)	Telephone (180" dia)	TV Cable (90" dia)	Water (364" dia)		
Manhole	Sanitary Sewer (546" dia)	Storm Sewer (558" dia)	Gas (368" dia)	Electric (184" dia)	Telephone (182" dia)				

CITY OF RICHMOND, DPU  
 CONTACT: CITY OF RICHMOND  
 DEPARTMENT OF PUBLIC UTILITIES  
 MICHELLE FORD, GIS TECHNICIAN WATER DATA OFFICER  
 400 JEFFERSON DAVIS HIGHWAY  
 RICHMOND, VA 23224  
 PHONE: (804)-646-8415  
 MOBILE: (804)-646-8502  
 FAX: (804)-646-8545  
 MICHELLE.FORD@RICHMONDGOV.COM

MATCHLINE SHEET 2B(2) - STA. 129+00.00

MATCHLINE BELOW - STA. 136+50.00

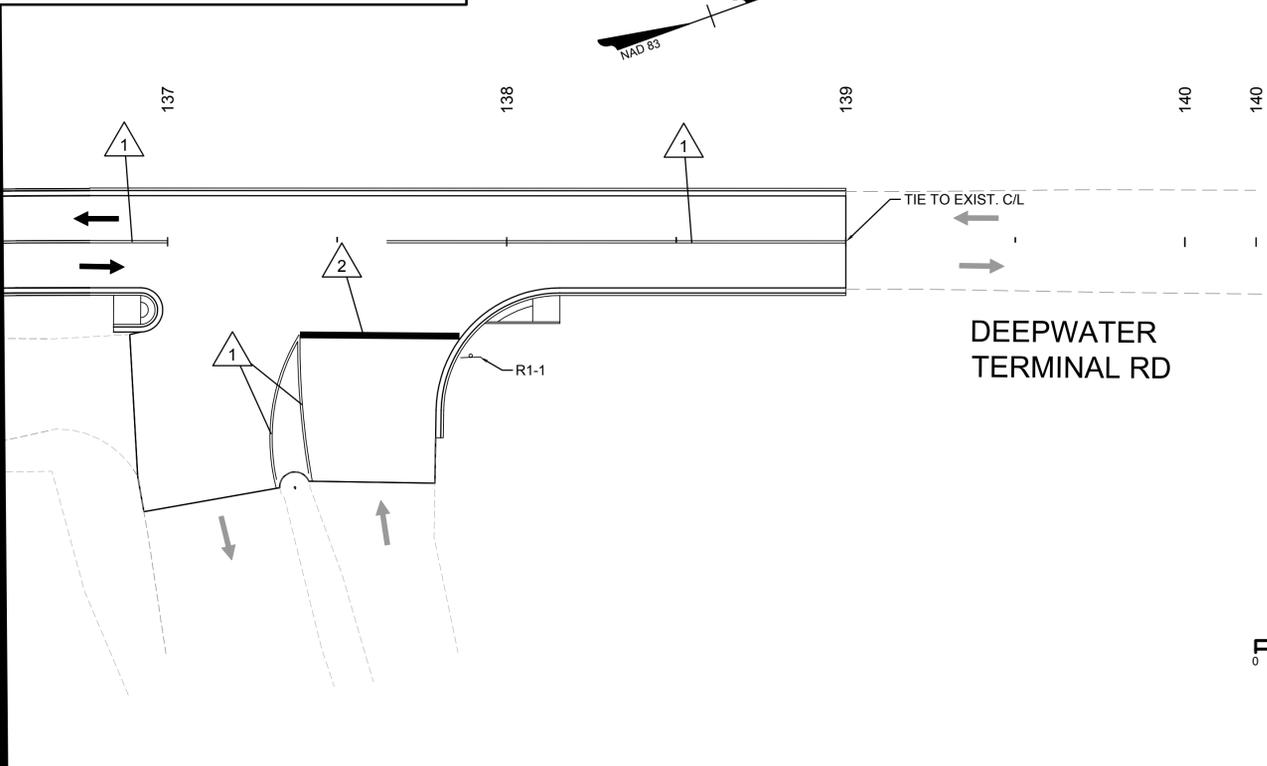


**KEY LEGEND**

	1. 4" DOUBLE SOLID YELLOW LINE		EX. TURN ARROWS (FOR REFERENCE ONLY)		R1-1 30" x 30"
	2. 24" SOLID WHITE STOP BAR		LEFT & RIGHT TURN ARROW		W3-1 30" x 30"
			LEFT / RIGHT TURN ARROW		
			THROUGH/DIRECTIONAL ARROW FOR INFORMATION ONLY (DO NOT STRIPE)		

MOBILE: (804)-646-8502  
 FAX: (804)-646-8545  
 MICHELLE.FORD@RICHMONDGOV.COM

MATCHLINE ABOVE - STA. 136+50.00



SCALE 1"=25'  
 0 25' 50'

**NOTES**

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of April, 2014
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

<p><b>Existing Curb</b></p> <ul style="list-style-type: none"> <li>Curb &amp; Gutter</li> <li>Sidewalk</li> <li>Basin</li> <li>Storm Sewer</li> <li>Sewer Manhole</li> <li>Sanitary Sewer (sewer)</li> <li>Sanitary Sewer (sewer)</li> <li>Gas Line</li> <li>Electric Line</li> <li>Telephone/Telegraph</li> <li>TV Cable</li> <li>Water Line</li> <li>Tree / Exist. Tree To Be Removed</li> <li>Property Line</li> </ul>	<p><b>Existing</b></p> <ul style="list-style-type: none"> <li>Curb Cut Ramp</li> <li>Coping</li> <li>Alley Crossing/Driveway</li> <li>Fire Hydrant</li> <li>Edge of Pavement</li> <li>Fence</li> <li>Cornerstone</li> <li>Property Pin</li> <li>Utility Pole</li> </ul> <p><b>Proposed Sewer</b></p> <ul style="list-style-type: none"> <li>Manhole</li> <li>Basin</li> <li>Curb &amp; Gutter</li> <li>Asphalt</li> </ul>	<p><b>Proposed Conc. Sidewalk</b></p> <ul style="list-style-type: none"> <li>Brick Sidewalk</li> </ul> <p><b>Castings</b></p> <ul style="list-style-type: none"> <li>Water Valve</li> <li>Water Meter</li> <li>Gas Drip</li> <li>Gas Valve</li> <li>Telephone Manhole</li> <li>Electric Manhole</li> </ul> <p><b>Proposed Curb Cut Ramp</b></p> <ul style="list-style-type: none"> <li>Decorative Light</li> <li>Conduit</li> <li>Conduit (Conc. Encased)</li> <li>Retaining Wall</li> </ul>
---	---	--



<b>Technical</b>		<b>Administrative</b>	
	Surveys Superintendent		Capital Project Administrator
	Project Engineer		Deputy Director for Transportation / Public Works
	Maintenance Engineer		Director of Public Works
	City Traffic Engineer		
DEPARTMENT OF PUBLIC WORKS RICHMOND, VIRGINIA			

DEEPWATER TERMINAL ROAD EXTENSION  
**PAVEMENT MARKING &  
 SIGNING PLAN**

DESIGN BY: M. FLEMING	REVIEWED BY:	FIELD NOTES: FB-XX, pp XX-XX	SCALE: HORIZ. 1" = 25'	DATE: 02/09/15	SHEET: 2B(3)	DRAWING NO.: 0-28602
DRAWN BY: M. FLEMING	CHECKED BY: C. KIEFER		VERT. N/A			

SURVEYED BY: TIMMONS GROUP  
 SUPERVISED BY: C. KIEFER  
 DESIGNED BY: M. FLEMING

L:\2015\1548-Richmond\005-205-Deepwater-Terminal\DWG\Sheet\CD\30486\_008-202C-02B.dwg Printed on 2/9/2015 3:59 PM by Brian Welch



**UTILITY OWNERSHIP LIST**

**PHONE / FIBER OPTIC**

VERIZON  
CONTACT: VERIZON  
2600 BRITTON HILL RD.  
RICHMOND, VA 23230  
PHONE: (804)-772-4207

COMCAST CORPORATION  
CONTACT: COMCAST  
5401 STAPLES MILL ROAD  
RICHMOND, VA 23228  
BRAD ALLEN, DESIGN TECHNICIAN  
PHONE: (804)-915-5383  
FAX: (804)-915-5356  
CELL: (804)-816-0598  
BRADALLEN@CABLE.COMCAST.COM

**GAS PIPELINE**

COLONIAL PIPELINE COMPANY  
CONTACT: CHRISTOPHER J. GIBSON, INSPECTOR  
1400 GOODIES STREET  
RICHMOND, VA 23224  
PHONE: (804)-233-4347 (DIRECT)  
CELL: (804)-334-0640  
FAX: (804)-232-3561  
CGIBSON@COLPIPE.COM

KINDER MORGAN - PLANTATION PIPELINE COMPANY  
CONTACT: JESSIE W. CARTLIDGE, SUPERVISOR OPERATIONS AND MAINTENANCE  
1800 TRENTON AVE.  
RICHMOND, VA 23234  
PHONE: (804)-275-5441  
PHONE: (804)-690-6757  
JESSIE\_CARTLIDGE@KINDERMORGAN.COM

**POWER**

DOMINION POWER  
CONTACT: DOMINION VIRGINIA POWER  
7500 WEST BROAD STREET  
RICHMOND, VA 23294  
(RECORDS REQUEST REQUIRED TO BE SUBMITTED ELECTRONICALLY)  
FACILITY.LOCATE.REQUEST@DOM.COM

DOMINION SITE SERVICES  
CONTACT: WILLIAM R. THOMAS, OWNER  
(OWNER OF LOT WHERE THERE IS ABANDONED OIL LINE)  
1750 DEEPWATER TERMINAL ROAD  
RICHMOND, VA 23224  
PHONE: (804)-929-7209  
THOMASWR@GMAIL.COM

**WATER, CITY ELECTRIC, GAS, SANITARY SEWER AND STORM SEWER**

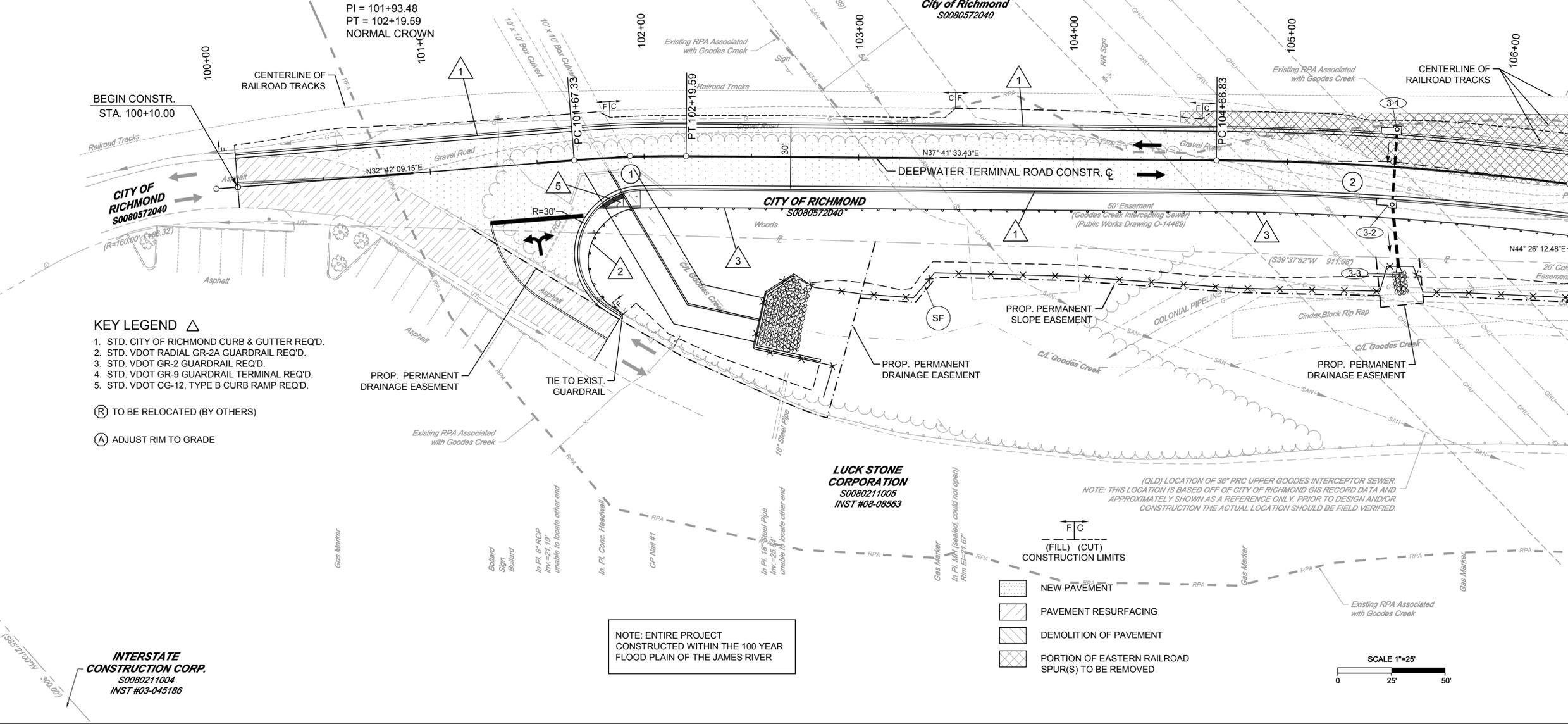
CITY OF RICHMOND, DPJ  
CONTACT: CITY OF RICHMOND  
DEPARTMENT OF PUBLIC UTILITIES  
MICHELLE FORD, GIS TECHNICIAN WATER DATA OFFICER  
400 JEFFERSON DAVIS HIGHWAY  
RICHMOND, VA 23224  
PHONE: (804)-646-8415  
MOBILE: (804)-646-8502  
FAX: (804)-646-8545  
MICHELLE.FORD@RICHMONDGOV.COM

**DEEPWATER TERMINAL ROAD CURVE 1**

$\Delta = 4^{\circ}59'24''$   
R = 600.00  
T = 26.14  
L = 52.26  
C = 52.24  
PC = 101+67.33  
PI = 101+93.48  
PT = 102+19.59  
NORMAL CROWN

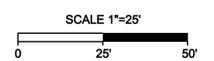
**DEEPWATER TERMINAL ROAD CURVE 2**

$\Delta = 6^{\circ}44'39''$   
R = 1400.00  
T = 82.49  
L = 164.79  
C = 164.70  
PC = 104+66.83  
PI = 105+49.32  
PT = 106+31.62  
NORMAL CROWN



MATCHLINE SHEET 4 - STA. 106+50.00

SHEET REFERENCES	
TYPICAL SECTIONS	2
PROFILE SHEET	3A
EROSION & SEDIMENT CONTROL	
CROSS SECTIONS	XS-1, XS-3



**NOTES**

- Lot dimensions in parentheses are from deed.
- Property owners correct as of April, 2014
- Ordinance Number N/A
- Adopted N/A
- Accepted N/A

**INTERSTATE CONSTRUCTION CORP.**  
S0080211004  
INST #03-045186

Existing	Proposed
Curb & Gutter	Proposed Conc. Sidewalk
Sidewalk	Brick Sidewalk
Base	Castings: Water Valve
Storm Sewer	Water Meter
Sewer Manhole	Gas Drip
Sanitary Sewer (Small)	Gas Valve
Sanitary Sewer (Main)	Telephone Manhole
Gas Line	Electric Manhole
Electric Line	Proposed Curb Cut Ramp
Telephone/Telegraph	Decorative Light
TV Cable	Conduit
Water Line	Conduit (Conc. Encased)
Tree / Exist. Tree To Be Removed	Retaining Wall
Property Line	



Technical	Administrative
Surveys Superintendent	Capital Project Administrator
Project Engineer	Deputy Director for Transportation / Public Works
Maintenance Engineer	Director of Public Works
City Traffic Engineer	

DEPARTMENT OF PUBLIC WORKS  
RICHMOND, VIRGINIA

DESIGN BY: M. FLEMING	REVIEWED BY:	FIELD NOTES: FB-KK, pp 12-12	SCALE: HORIZ. 1" = 25'	DATE: 02/09/15	SHEET: 3	DRAWING NO.: 0-28602
CHECKED BY: C. KIEFER			VERT. N/A			

SURVEYED BY: TIMMONS GROUP  
SUPERVISED BY: C. KIEFER  
DESIGNED BY: M. FLEMING

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**UTILITY OWNERSHIP LIST**

**PHONE / FIBER OPTIC**

**VERIZON**  
CONTACT: VERIZON  
2600 BRITTON HILL RD.  
RICHMOND, VA. 23230  
PHONE: (804)-772-4207

**COMCAST CORPORATION**  
CONTACT: COMCAST  
5401 STAPLES MILL ROAD  
RICHMOND, VA 23228  
BRAD ALLEN, DESIGN TECHNICIAN  
PHONE: (804)-915-5363  
FAX: (804)-915-5356  
CELL: (804)-815-0598  
BRADALLEN@CABLE.COMCAST.COM

**POWER**

**DOMINION POWER**  
CONTACT: DOMINION VIRGINIA POWER  
7500 WEST BROAD STREET  
RICHMOND, VA 23294  
(RECORDS REQUEST REQUIRED TO BE SUBMITTED ELECTRONICALLY)  
FACILITY.LOCATE.REQUEST@DOM.COM

**WATER, CITY ELECTRIC, GAS, SANITARY SEWER AND STORM SEWER**

**CITY OF RICHMOND, DPW**  
CONTACT: CITY OF RICHMOND  
DEPARTMENT OF PUBLIC UTILITIES  
MICHELLE FORD, GIS TECHNICIAN WATER DATA OFFICER  
400 JEFFERSON DAVIS HIGHWAY  
RICHMOND, VA 23224  
PHONE: (804)-646-8415  
MOBILE: (804)-646-8502  
FAX: (804)-646-8543  
MICHELLE.FORD@RICHMONDGOV.COM

**GAS PIPELINE**

**COLONIAL PIPELINE COMPANY**  
CONTACT: CHRISTOPHER J. GIBSON, INSPECTOR  
1400 GOODIES STREET  
RICHMOND, VA 23224  
PHONE: (804)-233-4347 (DIRECT)  
CELL: (804)-334-0540  
FAX: (804)-232-3561  
CGIBSON@COLPIPE.COM

**KINDER MORGAN - PLANTATION PIPELINE COMPANY**  
CONTACT: JESSIE W. CARTLIDGE, SUPERVISOR OPERATIONS AND MAINTENANCE  
1800 TRENTON AVE.  
RICHMOND, VA 23234  
PHONE: (804)-375-5441  
PHONE: (804)-690-6757  
JESSIE\_CARTLIDGE@KINDERMORGAN.COM

**OIL**

**DOMINION SITE SERVICES**  
CONTACT: WILLIAM R. THOMAS, OWNER  
(OWNER OF LOT WHERE THERE IS ABANDONED OIL LINE)  
1750 DEEPWATER TERMINAL ROAD  
RICHMOND, VA 23224  
PHONE: (804)-929-7209  
THOMASWR@GMAIL.COM

Overhead Metal Truss (Top=60.35)  
Overhead 18" Metal Pipe (Top=62.87)  
Overhead Metal Truss (Top=60.44)

**DEEPWATER TERMINAL ROAD CURVE 5**

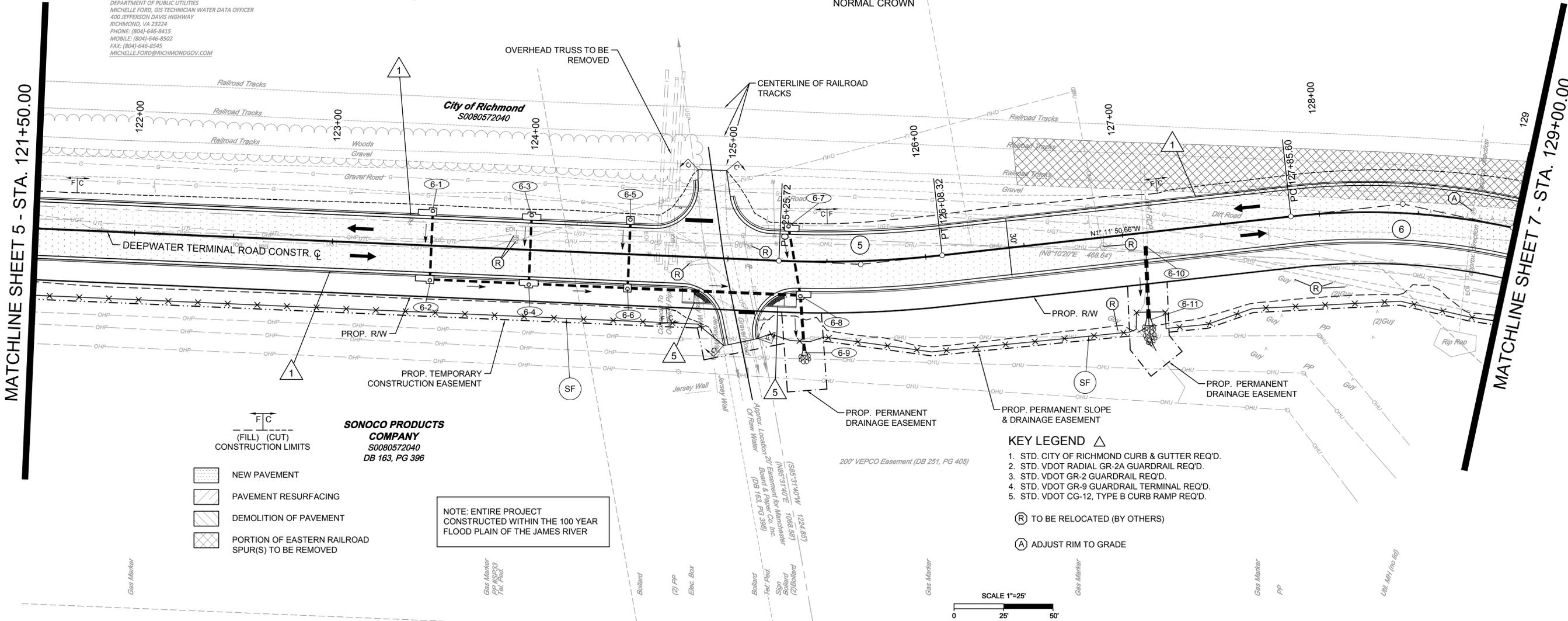
$\Delta = 8^{\circ}47'48''$   
R = 538.00  
T = 41.38  
L = 82.60  
C = 82.52  
PC = 125+25.72  
PI = 125+67.10  
PT = 126+08.32  
NORMAL CROWN

**DEEPWATER TERMINAL ROAD CURVE 6**

$\Delta = 18^{\circ}26'58''$   
R = 350.00  
T = 56.84  
L = 112.70  
C = 112.21  
PC = 127+85.60  
PI = 128+42.44  
PT = 128+98.30  
NORMAL CROWN

TO BE CLEANED OUT  
IN PLACE FOR  
UNABLE TO LOCATE OTHER END

TO BE CLEANED OUT  
IN PLACE FOR  
Rim Elev=26.67'  
C/L Chamber = +22.67'  
filled with dirt to the top of  
the pipes.



SURVEYED BY: TIMMONS GROUP  
 SUPERVISED BY: C. KIEFER  
 DESIGNED BY: M. FLEMING

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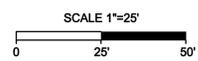
**SONOCO PRODUCTS COMPANY**  
S0080572040  
DB 163, PG 396

- (FILL) (CUT)  
CONSTRUCTION LIMITS
- NEW PAVEMENT
  - PAVEMENT RESURFACING
  - DEMOLITION OF PAVEMENT
  - PORTION OF EASTERN RAILROAD SPUR(S) TO BE REMOVED

NOTE: ENTIRE PROJECT  
CONSTRUCTED WITHIN THE 100 YEAR  
FLOOD PLAIN OF THE JAMES RIVER

- KEY LEGEND**
1. STD. CITY OF RICHMOND CURB & GUTTER REQ'D.
  2. STD. VDOT RADIAL GR-2A GUARDRAIL REQ'D.
  3. STD. VDOT GR-2 GUARDRAIL REQ'D.
  4. STD. VDOT GR-9 GUARDRAIL TERMINAL REQ'D.
  5. STD. VDOT CG-12, TYPE B CURB RAMP REQ'D.

- (R) TO BE RELOCATED (BY OTHERS)
- (A) ADJUST RIM TO GRADE

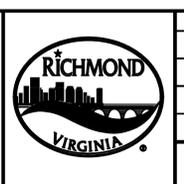


SHEET REFERENCES	
TYPICAL SECTIONS	2
PROFILE SHEET	6A
EROSION & SEDIMENT CONTROL	
CROSS SECTIONS	XS-6, XS-8

**NOTES**

1. Lot dimensions in parentheses are from deed.
2. Property owners correct as of April, 2014
3. Ordinance Number N/A
4. Adopted N/A
5. Accepted N/A

Existing	Proposed
Curb & Gutter	Curb & Gutter
Sidewalk	Sidewalk
Basin	Basin
Storm Sewer	Storm Sewer
Sewer Manhole	Sewer Manhole
Sanitary Sewer (small)	Sanitary Sewer (small)
Sanitary Sewer (large)	Sanitary Sewer (large)
Gas Line	Gas Line
Electric Line	Electric Line
Telephone/Telegraph	Telephone/Telegraph
TV Cable	TV Cable
Water Line	Water Line
Tree / Exist. Tree To Be Removed	Tree / Exist. Tree To Be Removed
Property Line	Property Line



Technical	Administrative
Surveys Superintendent	Capital Project Administrator
Project Engineer	Deputy Director for Transportation / Public Works
Maintenance Engineer	Director of Public Works
City Traffic Engineer	

DEPARTMENT OF PUBLIC WORKS  
RICHMOND, VIRGINIA

DEEPWATER TERMINAL ROAD EXTENSION  
**PLAN SHEET**

DESIGN BY: M. FLEMING	REVIEWED BY:	FIELD NOTES: TB-KK, pp 12-14	SCALE: HORIZ. 1" = 25'	DATE: 02/09/15	SHEET: 6	DRAWING NO.: 0-28602
CHECKED BY: C. KIEFER			VERT. N/A			



SURVEYED BY: TIMMONS GROUP  
 SUPERVISED BY: C. KIEFER  
 DESIGNED BY: M. FLEMING

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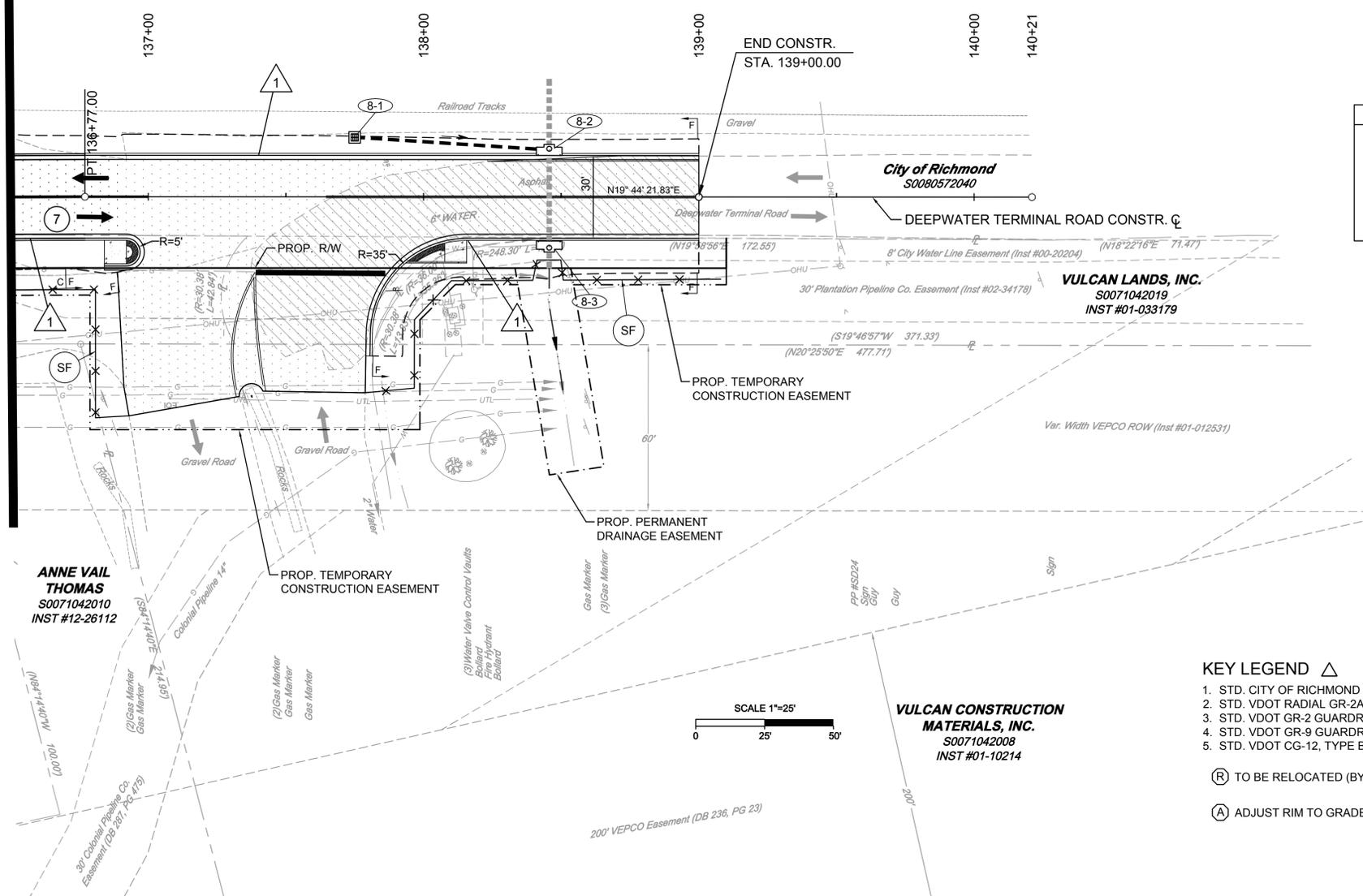
DEEPWATER TERMINAL ROAD CURVE

$\Delta = 2^{\circ}29'15''$   
 $R = 3000.00$   
 $T = 65.13$   
 $L = 130.24$   
 $C = 130.23$   
 $PC = 135+46.76$   
 $PI = 136+11.89$   
 $PT = 136+77.00$   
 NORMAL CROWN

Exst. 24" RCP  
 TO BE CLEANED OUT



MATCHLINE SHEET 7 - STA. 136+50.00



**UTILITY OWNERSHIP LIST**

**PHONE / FIBER OPTIC**

**VERIZON**  
 CONTACT: VERIZON  
 2600 BRITTON HILL RD.  
 RICHMOND, VA 23230  
 PHONE: (804)-772-4207

**COMCAST CORPORATION**  
 CONTACT: COMCAST  
 5401 STAPLES MILL ROAD  
 RICHMOND, VA 23228  
 BRAD ALLEN, DESIGN TECHNICIAN  
 PHONE: (804)-915-5363  
 FAX: (804)-915-5356  
 CELL: (804)-816-0598  
 BRADALLEN@CABLE.COMCAST.COM

**POWER**

**DOMINION POWER**  
 CONTACT: DOMINION VIRGINIA POWER  
 7500 WEST BROAD STREET  
 RICHMOND, VA 23294  
 (RECORDS REQUEST REQUIRED TO BE SUBMITTED ELECTRONICALLY)  
 FACILITY.LOCATE.REQUEST@DOM.COM

**WATER, CITY ELECTRIC, GAS, SANITARY SEWER AND STORM SEWER**

**CITY OF RICHMOND, DPI**  
 CONTACT: CITY OF RICHMOND  
 DEPARTMENT OF PUBLIC UTILITIES  
 MICHELLE FORD, GIS TECHNICIAN WATER DATA OFFICER  
 400 JEFFERSON DAVIS HIGHWAY  
 RICHMOND, VA 23224  
 PHONE: (804)-646-8415  
 MOBILE: (804)-646-8502  
 FAX: (804)-646-8545  
 MICHELLE.FORD@RICHMONDGOV.COM

**GAS PIPELINE**

**COLONIAL PIPELINE COMPANY**  
 CONTACT: CHRISTOPHER, J. GIBSON, INSPECTOR  
 1400 GOODES STREET  
 RICHMOND, VA 23224  
 PHONE: (804)-233-4347 (DIRECT)  
 CELL: (804)-334-0640  
 FAX: (804)-232-3561  
 CGIBSON@COLPIPE.COM

**KINDER MORGAN - PLANTATION PIPELINE COMPANY**  
 CONTACT: JESSIE W. CARTLIDGE, SUPERVISOR OPERATIONS AND MAINTENANCE  
 1800 TRENTON AVE.  
 RICHMOND, VA 23224  
 PHONE: (804)-275-5441  
 PHONE: (804)-690-6757  
 JESSIE\_CARTLIDGE@KINDERMORGAN.COM

**OIL**

**DOMINION SITE SERVICES**  
 CONTACT: WILLIAM R. THOMAS, OWNER  
 (OWNER OF LOT WHERE THERE IS ABANDONED OIL LINE)  
 1750 DEEPWATER TERMINAL ROAD  
 RICHMOND, VA 23224  
 PHONE: (804)-929-7209  
 THOMASWR1@GMAIL.COM

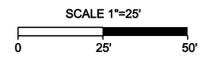
F C  
 (FILL) (CUT)  
 CONSTRUCTION LIMITS

	NEW PAVEMENT
	PAVEMENT RESURFACING
	SHEET REFERENCES
	TYPICAL SECTIONS
	PROFILE SECTIONS
	EROSION & SEDIMENT CONTROL
	CROSS SECTIONS

NOTE: ENTIRE PROJECT CONSTRUCTED WITHIN THE 100 YEAR FLOOD PLAIN OF THE JAMES RIVER

**KEY LEGEND**

- STD. CITY OF RICHMOND CURB & GUTTER REQ'D.
  - STD. VDOT RADIAL GR-2A GUARDRAIL REQ'D.
  - STD. VDOT GR-2 GUARDRAIL REQ'D.
  - STD. VDOT GR-9 GUARDRAIL TERMINAL REQ'D.
  - STD. VDOT CG-12, TYPE B CURB RAMP REQ'D.
- (R) TO BE RELOCATED (BY OTHERS)  
 (A) ADJUST RIM TO GRADE



**VULCAN CONSTRUCTION MATERIALS, INC.**  
 S0071042008  
 INST #01-10214

**NOTES**

- Lot dimensions in parentheses are from deed.
- Property owners correct as of April, 2014
- Ordinance Number N/A
- Adopted N/A
- Accepted N/A

**REFERENCES**  
 EC: 37 HW, 37 SW

**REVISIONS**

Existing	Proposed
Curb & Gutter	Proposed Conc. Sidewalk
Sidewalk	Brick Sidewalk
Basin	Castings: Water Valve
Storm Sewer	Water Meter
Sewer Manhole	Gas Drip
Sanitary Sewer (sewer)	Gas Valve
Sanitary Sewer (sewer man)	Telephone Manhole
Gas Line	Electric Manhole
Telephone/Telegraph	Proposed Curb Cut Ramp
TV Cable	Decorative Light
Water Line	Conduit
Tree / Exist. Tree To Be Removed	Conduit (Conc. Encased)
Property Line	Retaining Wall



Technical	Administrative
Surveys Superintendent	Capital Project Administrator
Project Engineer	Deputy Director for Transportation / Public Works
Maintenance Engineer	Director of Public Works
City Traffic Engineer	

DEPARTMENT OF PUBLIC WORKS  
RICHMOND, VIRGINIA

DEEPWATER TERMINAL ROAD EXTENSION  
**PLAN SHEET**

DESIGN BY: M. FLEMING	REVIEWED BY:	FIELD NOTES: FB-KK, pp 12-14	SCALE: HORIZ. 1" = 25'	DATE: 02/09/15	SHEET: 8	DRAWING NO.: 0-28602
DRAWN BY: M. FLEMING			VERT. N/A			
CHECKED BY: C. KIEFER						

**Deepwater Terminal Road Extended - Preliminary Right of Way Data Sheet - 2-24-15**

Number	Property Owner	Parcel Number	Inst. Number	DB	PG	Right Of Way	Permanent			Temporary
							Slope Easement	Slope & Drainage Easement	Drainage Easement	Construction Easement
001	Luck Stone Corporation	S0080211005	08-08563			0.0000	0.2957	0.0000	0.2401	0.0000
002	Sonoco Products Company	S0080211022	00-4628			0.4004	0.0000	0.0000	0.0000	0.0391
003	Sonoco Products Company	S0080572040		163	396	0.9049	0.0035	0.0000	0.0120	0.3086
004	Florida Rock Industries, Inc.	S0071042007	00-26767			0.4566	0.0000	0.3077	0.0378	0.0465
005	Vulcan Lands, Inc.	S0071042019	01-033179			0.1125	0.0000	0.0000	0.0000	0.0980
006	Vulcan Construction Materials, Inc.	S0071042008	01-10214			0.0000	0.0000	0.0000	0.0212	0.0840
007	Vulcan Lands, Inc.	S0071042019	01-033179			0.0241	0.0000	0.0000	0.0129	0.0211
<b>TOTALS</b>						1.8985	0.2992	0.3077	0.3240	0.5973