

TEMPORARY TRAFFIC CONTROL (TTC) REQUIREMENTS

- The permittee shall refer to the attached Temporary Traffic Control Plan (TTCP) drawings to select the appropriate work zone temporary traffic controls for each phase of construction. Work zone situations which are not addressed in the attached TTCP shall conform to the guidelines set forth in Section 6 of the **MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAY (MUTCD)**, most recent edition.
- The permittee must have a "certified" traffic control manager on site during all phases of construction at all times.
- Each phase of construction, including the follow up restoration operations shall be provided with appropriate work zone traffic controls.
- Road closures of any duration shall require the submittal of a written request to the Traffic Engineering Design and Operations Section with justification as to why work activity cannot occur while traffic is being maintained. Road closure shall require additional temporary traffic controls including advance notification, approach, and detour signage, as approved by Traffic Engineering Design and Operations Section.
- All sidewalk closures shall require the approval of the Traffic Engineering Design and Operations Section. Any sidewalk closure greater than two (2) weeks shall require the submittal of a written request to the Division of Traffic Engineering and Operations and may require additional temporary traffic controls and/or temporary sidewalk by-pass. Any work affecting sidewalk shall be specific and a proper pedestrian detour shall be shown on plans and submitted for review. Sidewalk closures shall be limited to occur only during the actual work activity. During closure, sidewalks shall be barricaded to physically prevent pedestrian passage and appropriate pedestrian detours shall be posted. During all other times, provisions for safe pedestrian access through the work area, via a temporary walkway shall be provided.

6. Any work within the traveled portion of roadways shall be restricted to the hours of 9:00 AM to 3:30 PM, Monday through Friday. Work on holidays and weekends shall not occur unless an exception is granted in writing by the County's DPS Inspector.

7. Construction activity, loading or unloading of equipment shall not block any traffic lane other than those delineated within the work zone.

8. Exclusive of emergency work, the permittee shall contact occupants of all adjoining properties and inform them of the scope and the timing of construction. A minimum of 24 hours notification shall be required prior to the commencement of any activity on the site.

9. Access shall be maintained to all driveways unless permission for closure is granted by the property owner/manager. However, accessibility for emergency vehicles shall be maintained at all times.

10. Pavement excavation shall be limited to a maximum of one travel lane at any time unless otherwise specified in the TTCP.

11. If any temporary traffic control signs are to be placed along a MSHA roadway or within the limits of an incorporated area, the permittee shall notify the appropriate agency of signage to be installed.

12. No hazardous materials shall be stored within public right-of-way. No materials or equipment shall be stored on the roadway surfaces or sidewalk during non-work hours.

13. All existing traffic control devices (i.e. signs, marking, etc.) that must be removed shall be replaced in their proper location prior to the completion of the project. Cost for the replacement and/or repair of devices damaged as a result of the project shall be assessed to the permittee.

14. For merging, shifting, shoulder taper, the MAXIMUM spacing between devices equals the posted speed in feet.

15. All temporary traffic control devices shall conform to the most recent edition of the MUTCD. All signs, traffic drums and cones shall be fully reflectorized with high intensity, reflective sheeting as per the MUTCD.

16. Provision shall be made for safe maintenance of pedestrian and bicycle traffic, subject to approval of the County's DPS Inspector. At least one 10-foot travel lane shall be available for traffic at all times.

17. Signage, traffic drums, traffic cones, and arrow panels shall be placed in accordance with the appropriate typical and spacing chart. Work Area Ahead (W20-1 modified) signs must be installed at the end of each workday when temporary aggregate ramping is implemented. Channelizing devices shall be placed along excavations at ten (10) foot intervals. Arrow Panels (flashing mode only) shall be used at the beginning of any lane closure on a multi-lane roadway.

18. Appropriate distances for sign legends are "AHEAD", "500 FT", "1000 FT", "1500 FT", or "1/2 MILE". For distances less than 500 feet, "AHEAD" shall be used.

19. All warning signs, unless otherwise specified, shall be a minimum of 48" X 48", black symbol on a legend on orange background and diamond shaped. All warning signs not applicable to the actual situation shall be removed or covered during non-applicable periods. All portable signs shall be mounted a minimum of one (1) foot above the level of the roadway, with higher mounting heights desirable.

20. During nighttime operations traffic drums shall be used. However, for emergency work activities where traffic drums are not readily available, reflectorized traffic cones that are a minimum of twenty eight (28) inches in height and having six (6) inch and four (4) inch reflective collars within the top sixteen (16) inches of the cone may be used. All work areas left unattended at night shall be delineated with traffic drums.

21. When temporary concrete barrier (TCB) is used, reflectorized markers are required as per TTCP 109.02. Also, a 12" X 36" object marker (vertical panel as per TTCP 109.01) shall be installed.

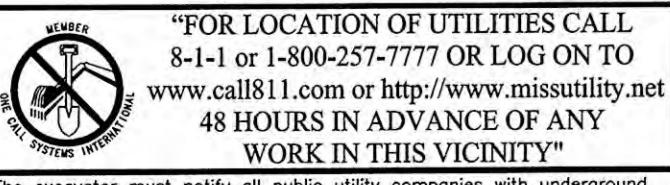
22. When pavement markings have been obliterated by the work activity, the permittee shall install any critical interim pavement markings by the end of the workday as specified by the county's DPS Inspector and/or the Division of Traffic Engineering and Operations. On road sections that are not scheduled to be overlaid, all temporary pavement markings shall be (removable) detour grade marking tape. Any conflicting markings which need to be temporarily removed, are to be masked using "3M Removable Black Lane Mask" or an approved equal. On road sections that are to be overlaid, temporary markings can be either tape or paint. Any conflicting markings shall be removed with a pavement grinder.

Flagging Operations

- When possible, two-way traffic shall be maintained, otherwise, flaggers shall be used to control traffic.
- Flaggers shall be Maryland State Highway Administration or AATSA approved flaggers and shall be used at the direction of the County Inspector. Flaggers shall use STOP/SLOW paddles to direct traffic.
- Radio communication shall be required between flaggers at the discretion of the County Inspector or under the following conditions:
 - If the flaggers cannot see each other.
 - If the lane closure exceeds 200 feet.

CIVIL ENGINEER:
VIKA Maryland, LLC, INC.
20251 CENTURY BOULEVARD,
SUITE 400
GERMANTOWN, MD 20874
PH: 301.916.4100
FAX: 301.916.2262
CONTACT: SUNIL PATEL
email:patel@vika.com

APPLICANT:
FEDERAL REALTY INVESTMENT TRUST
1626 EAST JEFFERSON STREET
ROCKVILLE, MARYLAND 20852
PH: 301.998.8131
MOBILE: 856.889.0540
CONTACT: JAY CORBALIS
Email:jcorbalis@federalrealty.com



"FOR LOCATION OF UTILITIES CALL 8-1-1 or 1-800-252-7777 OR LOG ON TO www.ca118.com or http://www.missutility.net 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY"

The excavator must notify all utility companies who have underground facilities in the area of proposed excavation and have those facilities located by the utility companies prior to commencing excavation.

PIKE AND ROSE

RIVER ROAD (MD. RTE. 190)

MAINTENANCE OF TRAFFIC PLAN FOR UTILITY CONSTRUCTION

4TH ELECTION DISTRICT MONTGOMERY COUNTY, MARYLAND

THE FOLLOWING STANDARDS ARE REQUIRED FOR THIS PROJECT: THE CONTRACTOR SHALL FOLLOW MARYLAND BOOK OF STANDARDS FOR MAINTENANCE OF TRAFFIC DURING THE ENTIRE PROJECT DURATION.

- MD-104.00-01-THRU 18-GENERAL NOTES
- MD-104.01-02-SIGN SPACING CHART
- MD-104.01-80-TAPER LENGTH CRITERIA TABLE
- MD-104.01-81-TYPICAL APPLICATION NOTES (BUFFER)
- MD-104.02-03-LANE SHIFT GREATER THAN 40 MPH
- MD-104.02-09-FLAGGING OPERATION
- MD-104.03-03-LEFT LANE CLOSURE/MULTILANE UNDIV.
- MD-104.03-05-RIGHT LANE CLOSURE/MULTILANE UNDIV.
- MD-104.03-05-LEFT LANE CLOSURE/MULTILANE DIVIDED
- MD-104.04-09-2 RIGHT (LEFT) LANES CLOSURE
- MD 104.06-09A-PEN AND CURB-LANE CONTROL/MULTILANE UNDIV.
- MD-104.06-16-PAVEMENT EDGE DROP-OFF 2.5 INCHES OR LESS
- MD-665.04-PLACEMENT OF DELINEATORS AND MARKERS

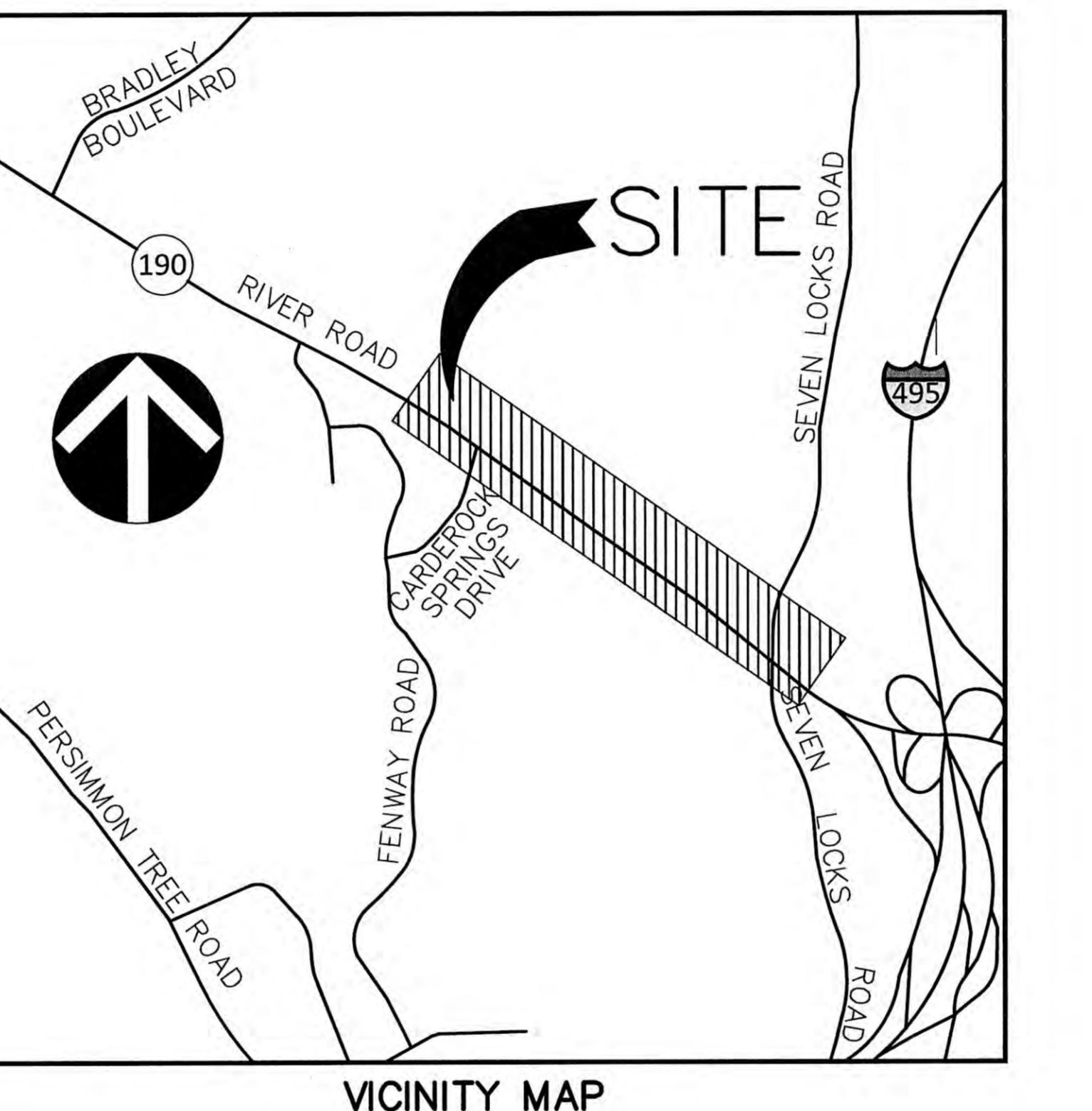
FOR ALL STANDARDS REFERRED TO ON THE PLANS THE CONTRACTOR MUST GO TO THE BOOK OF STANDARDS WHICH WILL HAVE THE MOST CURRENT VERSION. THE BOOK OF STANDARDS CAN BE ACCESSED AT: [HTTP://APPS.ROADS.MARYLAND.GOV/BUSINESSWTHSA/BIZSTDSSPECS/DESMANUAL](http://APPS.ROADS.MARYLAND.GOV/BUSINESSWTHSA/BIZSTDSSPECS/DESMANUAL)
STDPUB/PUBLICATIONS/ONLINE/OHD/BOOKSTD/INDEX.ASP

MSHA GENERAL NOTES

- Access to and from adjacent properties shall be maintained at all times.
- One lane in each direction shall be maintained at all times. A minimum lane width of eleven feet shall be allowed at all times, unless otherwise approved by the engineer.
- All channelizing devices used at night to be reflectorized traffic control devices.
- Pavement marking no longer applicable, which might create confusion, shall be removed as soon as practicable.
- All temporary and permanent markings and striping shall be of an approved material.
- The contractor must provide a safe slope between each phase of construction to avoid unsafe vertical changes in elevation. When slopes greater than 4:1 are necessary, the contractor must use concrete barriers.
- Remove and/or replace all standard pavement.
- Install erosion and sediment controls where necessary.
- All construction signs shall be orange with black lettering.
- All traffic control devices shall be constructed, placed and maintained in accordance with the current editions of the Manual on Uniform Traffic Control Devices (MUMUTCD), the Maryland supplement to the Manual on Uniform Traffic Control Devices, the Maryland State Highway Administration Work Zone Traffic Control Manual and Standards, and the Maryland Department of Transportation State Highway Administration Standard Specifications for Construction and Materials.
- In accordance with "Section 104—Maintenance of Traffic" of the Standard Specifications for Construction Materials of the MSHA, a full-time traffic manager will be required for this project who, in addition to the duties outlined therein, will also be responsible for the safety of the construction site and orientation of the traffic control measures included herein at all times. As outlined in Section 104, the contractor shall submit the traffic manager's name to the engineer and the MSHA inspector in writing prior to proceeding with the project.
- All work proposed requiring a lane closure along _____ shall be restricted to the hours of 9:00 am to 2:00 PM, Monday through Friday.
- Arrow panels are to be placed within closed portion of roadway as close to the beginning of the taper as possible.
- Contractor to contact MSHA prior to taking any traffic loop detectors out of service. Contractor is required to replace any disturbed loop detectors once the work is completed.
- All operations requiring the use of flaggers shall adhere to the MSHA standards and specifications, as noted in 104.15 of the Standard Specification Construction & Materials, January 2001.
- All pavement markings that are removed by milling or damaged during construction shall be replaced in kind.
- All signs that are removed during construction shall be placed in kind. The contractor is responsible for the cost to replace any sign that is damaged during construction. Signs shall be erected per the MSHA permit inspector.
- All work involving milling operations, including traffic control and temporary striping, etc., shall adhere to the guidelines and specifications as outlined in Section 508, of the Standard Specifications for Construction and Materials and the Temporary Traffic Control Manager's Training Manual/2000.
- All sidewalk closings to be no longer than 2 weeks in duration.
- Pedestrian traffic must be maintained at all times per SHA Standards.

Contact Information

- Contact the MCDOT Transportation Management Center at 240-777-2100 between 5:00 AM and 11:00 PM to inform them of temporary lane closures in the vicinity of any traffic signals.
- The permittee shall contact the Transportation Systems Engineering Team at 240-777-2100 at least two weeks in advance to coordinate any minor traffic signal work. Major traffic signal work shall be coordinated a minimum of thirty (30) days in advance of the project. The permittee shall contact the Montgomery County Transportation Management Center at 240-777-2100 a minimum of 72 hours prior to beginning work to have existing traffic signal equipment marked.
- The permittee shall contact the Traffic Engineering Design & Operations Section (TEDO) at 240-777-6000 at least ten (10) working days in advance of the final paving operation to schedule the installation of permanent pavement markings and signs.
- The permittee shall contact the Director of the Bethesda Urban Partnership at 301-215-6660, the Director of the Bethesda - Chevy Chase Regional Services Center at 301-986-4325, and the Bethesda Traffic Sergeant of the Montgomery County Police Department at 301-657-9200, a minimum of one week prior to the beginning of any work activities within the Bethesda Business District.
- The permittee shall contact the Director of the Upcounty Regional Services Center at 240-777-8000 and the Germantown Traffic Sergeant of the Montgomery County Police Department at 301-840-2650, a minimum of one week prior to the beginning of any work activities within the Germantown Business Area.
- The permittee shall contact the Director at 301-565-7300 of the Silver Spring Regional Services Center and the Silver Spring Traffic Sergeant at 301-565-7740 of the Montgomery County Police Department, a minimum of one week prior to the beginning of any work activities within the Silver Spring Business District.
- The permittee shall contact the Director at 240-777-8100 of the Mid-County Regional Services Center and the Wheaton Traffic Sergeant at 301-217-4400 of the Montgomery County Police Department, a minimum of one week prior to the beginning of any work activities within the Wheaton Business District.
- Field assistance by the MCDOT, Division of Traffic Engineering and Operations is available upon request. Contact Traffic Engineering Design & Operations Section (TEDO) at 240-777-6000.

**SHEET INDEX**

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Sidewalk Closure Requirements

- The permittee shall post a sign as part of any sidewalk closure along a County road that states "This sidewalk to be re-opened no later than (date based on closure duration specified on the approved TTCP). Call (number to be determined) if not opened by this date."
- Sidewalk closures will be used for temporary stopping, delivery of materials, or construction parking without express pre-approved field authorization following coordination with DTEO, DPS, and the Regional Service Center. Any sidewalk closure for this purpose shall not exceed 8 hours.
- Daily sidewalk closures shall be limited to the time of actual work activities (9:00 AM - 3:00 PM), and shall be restored before the end of the workday. During daily sidewalk closure, the sidewalk on the opposite side of the street may be used as the APA. For closures exceeding 15 days, an APA shall be provided on the same side of the street.
- Sidewalk closures not exceeding 15 days for utility work or construction of an adjacent building – the sidewalk on the opposite side of the street may be used as the APA. For closures exceeding 15 days, an APA shall be provided on the same side of the street.
- Sidewalk closures not exceeding 6 months for the purpose of sidewalk reconstruction/repairmen – the sidewalk on the opposite side of the street may be used as the APA. For closures exceeding 6 months, an APA shall be provided on the same side of the street.
- Same side APA requirement may be waived if the applicant can demonstrate and provide certification signed by a Professional Engineer that it is physically possible to provide same side APA due to insufficient space and/or it would create an endangerment that even a covered walkway would not protect against.
- The open sidewalk or APA shall remain American with Disability Act (ADA) compliant, shall not be blocked by any construction signs, and shall remain free of any obstructions or debris causing safety issues.

Pre-Construction Coordination

- The permittee shall coordinate and host a meeting at least two weeks in advance of any road closures, or lane closures/shifts. The following offices shall be notified in advance of the meeting, and again, 72 hours prior to the closure/shift:
- DTEO at 240-777-2190
 - Montgomery County Transportation System Engineering Team Manager at 240-777-8778
 - TMC at 240-777-2190
 - Montgomery County Transit at 240-777-5800
 - Montgomery County Public Schools, Local Depot Manager
 - Montgomery County Department of Permitting Services, Permit Inspection
 - Section at 240-777-6300
 - Montgomery County Emergency Operations Center at 311
 - The Director of the appropriate Regional Service Center (RSC) and the Local Traffic Sergeant of the Montgomery County Police Department as follows:
 - Bethesda-RSC at 301-986-4325, Bethesda Urban Partnership at 301-215-6660, and MCPD at 301-657-9200
 - Upcounty-RSC at 240-777-8000 and MCPD at 301-840-2650
 - Silver Spring-RSC at 301-565-7300, MCPD at 301-565-7740
 - Wheaton-RSC at 240-777-8100 and MCPD at 301-217-4400

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST 72 HOURS BEFORE STARTING ANY WORK ON THESE DRAWINGS.

MISS UTILITY	1-800-257-7777
BALTIMORE GAS & ELECTRIC CO.	1-800-492-2211
P.G. COUNTY BUREAU OF UTILITIES	1-301-759-9209
P.G. COUNTY CONST/NSPN SURVEY DIVISION	1-301-952-4914
POTOMAC ELECTRIC POWER CO.	1-301-569-0100
WASHINGTON GAS LIGHTS COMPANY	1-301-559-0100
PRIME CABLE	1-301-731-4260
CITY OF BOWIE CONST/INS. DIV.	1-301-262-6200
ANY OTHER PIPELINE/CABLE/UTILITY	

6/10/2016 BID SET

DATE: JUNE, 2016

DES. SHP

DWN. JAR

SCALE: AS SHOWN

PROJECT/FILE NO.

VM1538N

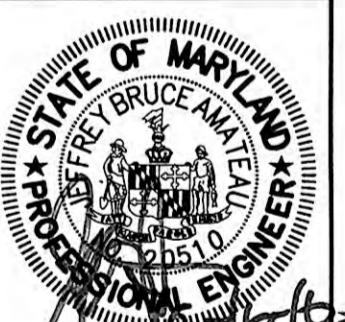
SHEET NO.

SHA MOT-1 OF 9

SHA TRACKING#

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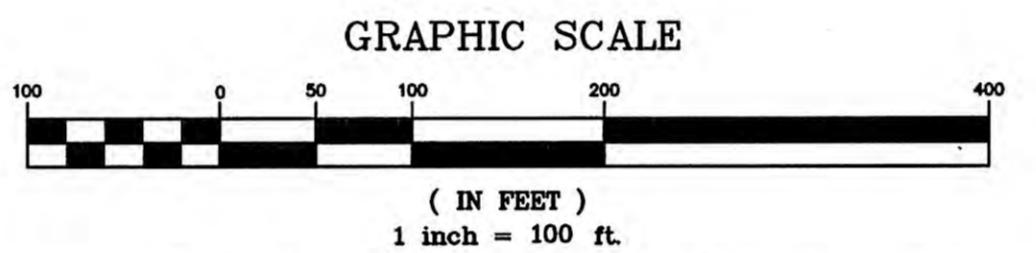
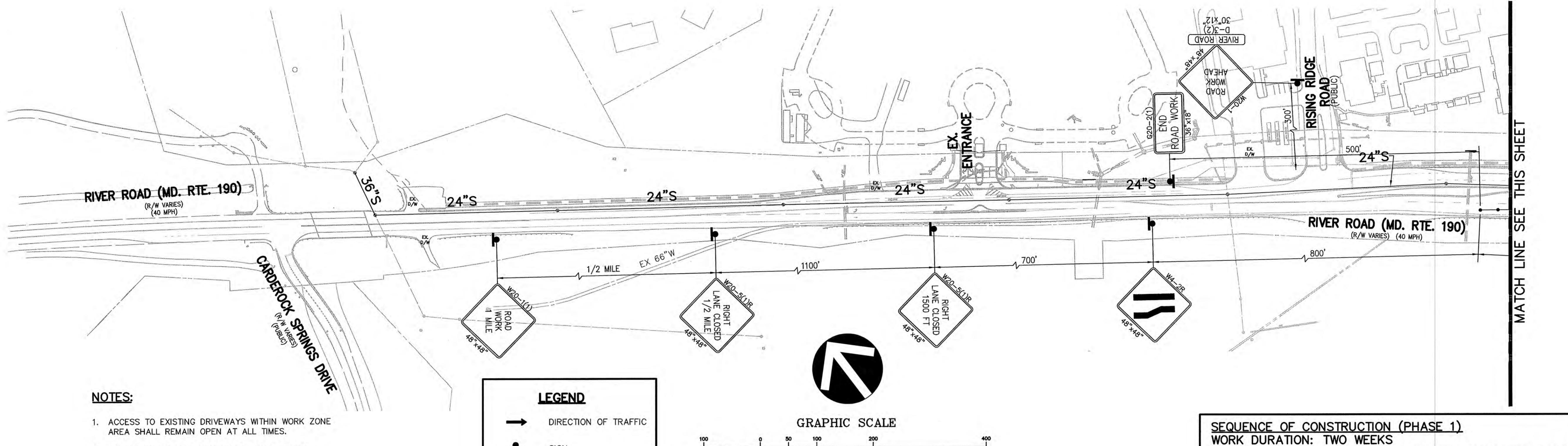
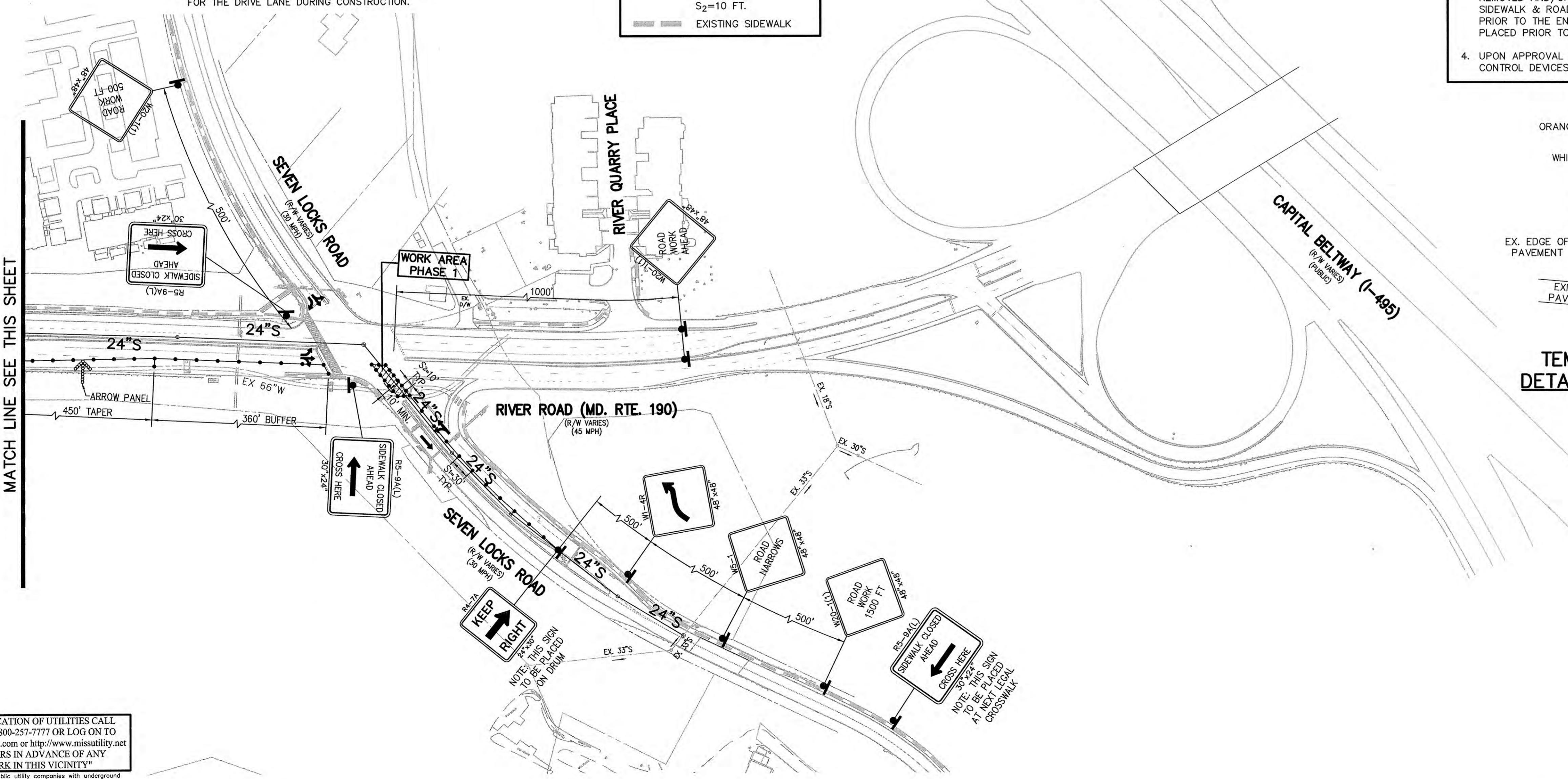
ENGINEERS ■ PLANNERS ■ LANDSCAPE ARCHITECTS ■ SURVEYORS ■ SUSTAINABLE DESIGN
20251 CENTURY BOULEVARD SUITE 400 ■ GERMANTOWN, MARYLAND 20874
(301) 916-4100 ■ FAX (301) 916-2262
W W V K A C O M



I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME
AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS
OF THE STATE OF MARYLAND.
JEFFREY B. ANATEAU LICENSE NO. 20550
EXPIRATION DATE: JULY 14, 2018

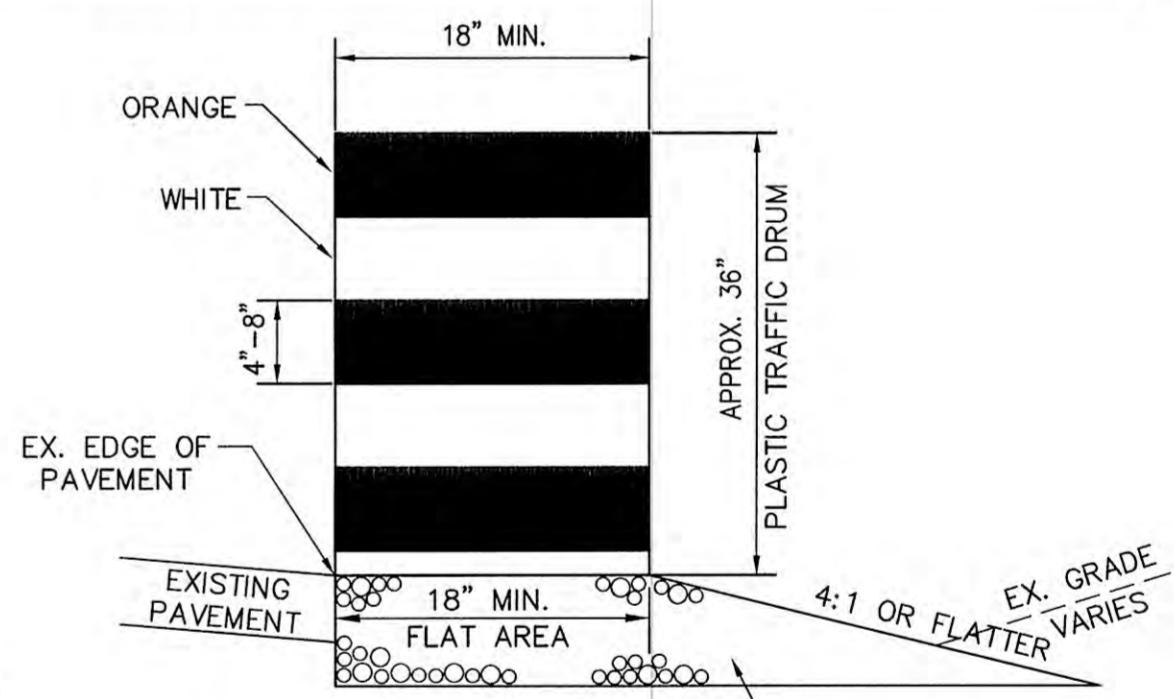
Vika Revisions

6/10/2016 BID SET
DATE: JUNE, 2016
DES. SHP DWN. JAR
SCALE: 1"=100'
PROJECT/FILE NO.: VM1538N
SHEET NO. SHA MOT-2 OF 9



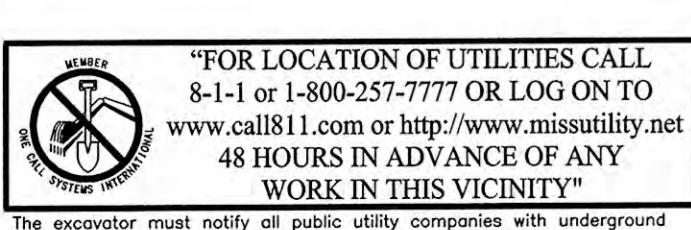
SEQUENCE OF CONSTRUCTION (PHASE 1)
WORK DURATION: TWO WEEKS
MD-104-03-05 RIGHT LANE CLOSURE/MULTILANE UNDIV. GREATER THAN 40 MPH

- PLACE ALL SIGNS AND CHANNELIZING DEVICES AS SHOWN ON PLAN.
- CONSTRUCT PROPOSED SEWER AND PAVEMENT PATCH ALONG RIVER ROAD AS PER THE DESIGN PLANS.
- ALL WARNING SIGNS NOT APPLICABLE TO THE ACTUAL SITUATION SHALL BE REMOVED AND/OR COVERED DURING THE NON APPLICABLE PERIODS. SIDEWALK & ROADWAY SHALL BE OPENED TO ITS FULL CROSS-SECTION PRIOR TO THE END OF EACH WORKING DAY. STEEL PLATES SHALL BE PLACED PRIOR TO FINAL BACKFILL AND PAVEMENT RESTORATION.
- UPON APPROVAL BY MDSHA AND MDOT INSPECTORS, REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN TO TRAFFIC.



**TEMPORARY AGGREGATE RAMP
DETAIL FOR NON-WORKING HOURS**

NOT TO SCALE



The excavator must notify all public utility companies with underground facilities in the area of proposed excavation and have these facilities located by the utility companies prior to commencing excavation.

SHA TRACKING#

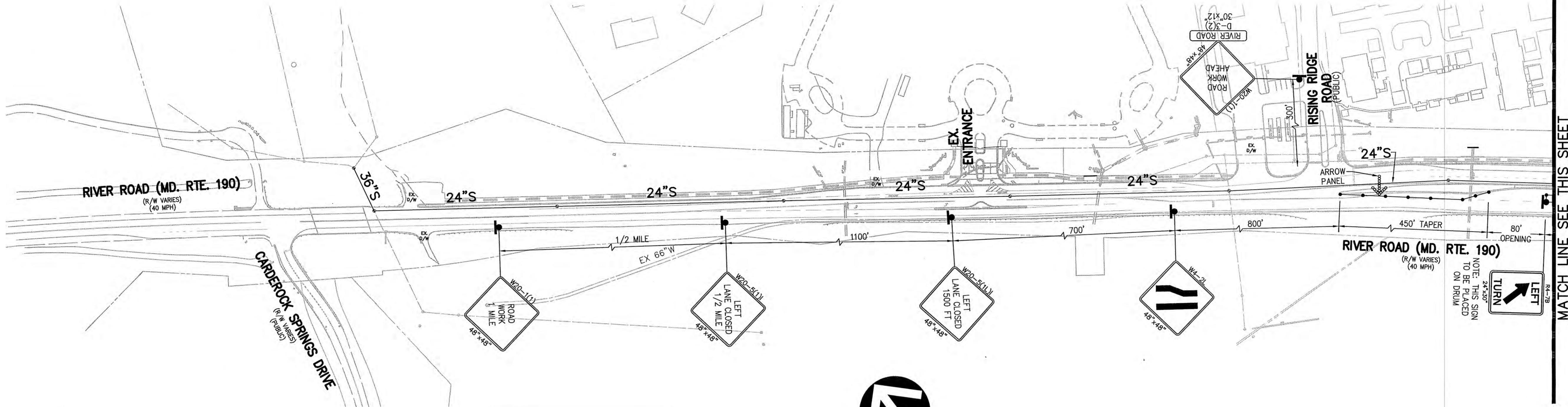
SHA MOT-2 OF 9

**PIKE & ROSE PHASE II
CABIN JOHN SEWER EXTENSION**

9TH ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

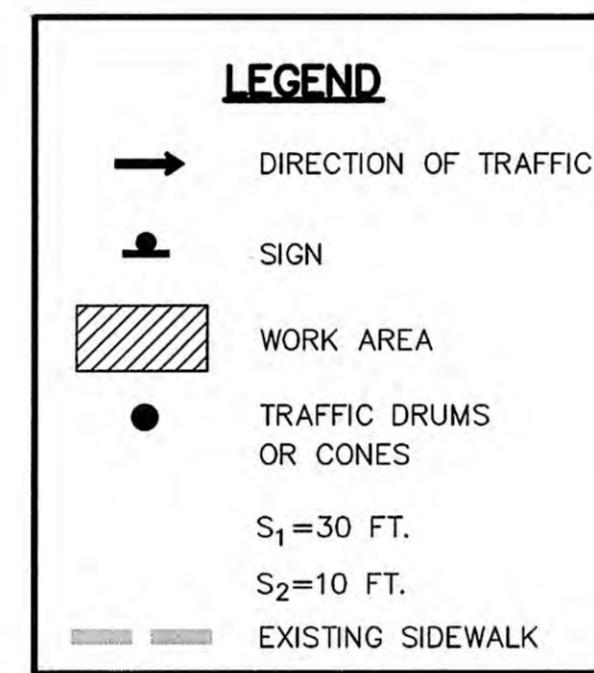
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NOTES:

1. ACCESS TO EXISTING DRIVEWAYS WITHIN WORK ZONE AREA SHALL REMAIN OPEN AT ALL TIMES.
2. CONTRACTOR SHALL COORDINATE WITH ALL ON GOING CONSTRUCTION IN THE AREA TO RESOLVE ANY/ALL ISSUES THAT WOULD BE IN CONFLICT WITH OTHER PROJECTS AND TRAFFIC CONTROLS.
3. ROADWAYS TO BE REOPENED AT THE END OF EACH WORKING DAY.
4. CONTRACTOR TO MAINTAIN MINIMUM OF 10' WIDTH FOR THE DRIVE LANE DURING CONSTRUCTION.



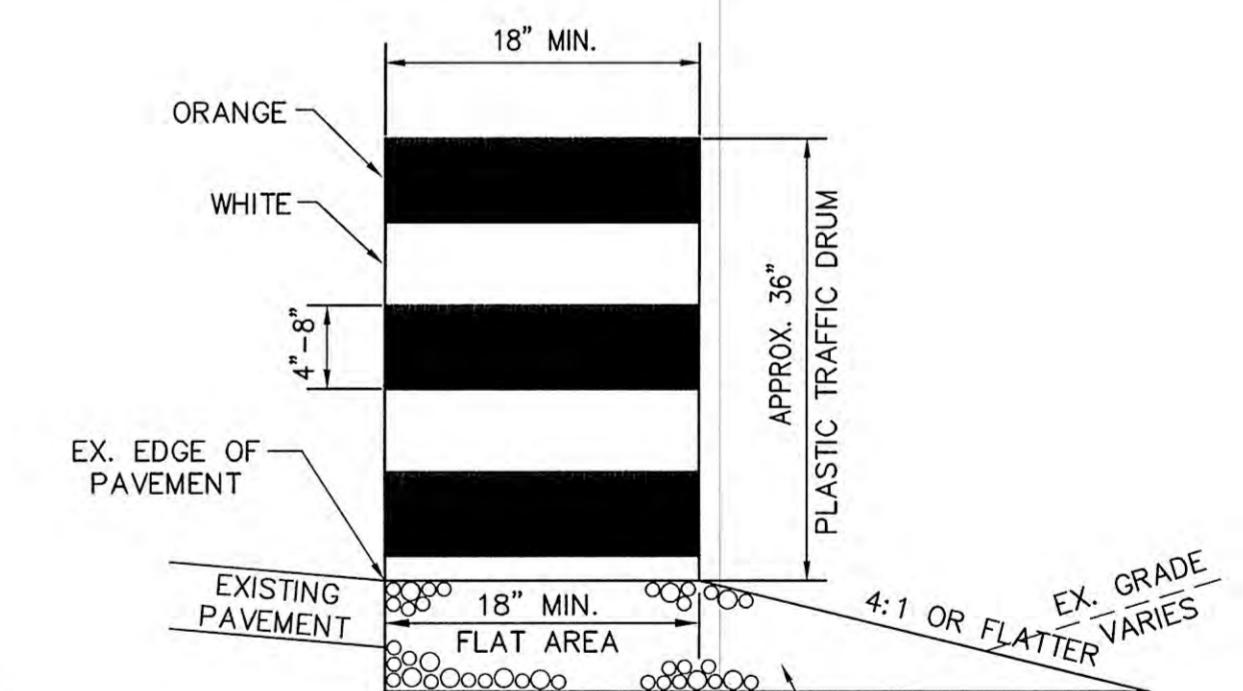
GRAPHIC SCALE
(IN FEET)
1 inch = 100 ft.

SEQUENCE OF CONSTRUCTION (PHASE 2)

WORK DURATION: TWO WEEKS

MD-104.04-03 LEFT LANE CLOSURE/MULTILANE DIVIDED GREATER THAN 40 MPH

1. PLACE ALL SIGNS AND CHANNELIZING DEVICES AS SHOWN ON PLAN.
2. CONSTRUCT PROPOSED SEWER AND PAVEMENT PATCH ALONG RIVER ROAD AS PER THE DESIGN PLANS.
3. ALL WARNING SIGNS NOT APPLICABLE TO THE ACTUAL SITUATION SHALL BE REMOVED AND/OR COVERED DURING THE NON APPLICABLE PERIODS. SIDEWALK & ROADWAY SHALL BE OPENED TO ITS FULL CROSS-SECTION PRIOR TO THE END OF EACH WORKING DAY. STEEL PLATES SHALL BE PLACED PRIOR TO FINAL BACKFILL AND PAVEMENT RESTORATION.
4. UPON APPROVAL BY MDSHA AND MCDOT INSPECTORS, REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN TO TRAFFIC.



TEMPORARY AGGREGATE RAMP DETAIL FOR NON-WORKING HOURS

NOT TO SCALE



I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME,
AND THAT THEY ARE THE PROPERTY OF THE
PROFESSIONAL ENGINEER UNDER THE LAWS
OF THE STATE OF MARYLAND.
JEFFREY BRUCE AMATI, PE, LSCE, CDES No. 2050
EXPIRATION DATE: JULY 14, 2016

VIKA REVISIONS

6/10/2016 BID SET	
DATE: JUNE, 2016	
DES. SHP	DWN. JAR
SCALE: 1"=100'	
PROJECT/FILE NO. VM1538N	
SHEET NO. SHA MOT-3 OF 9	



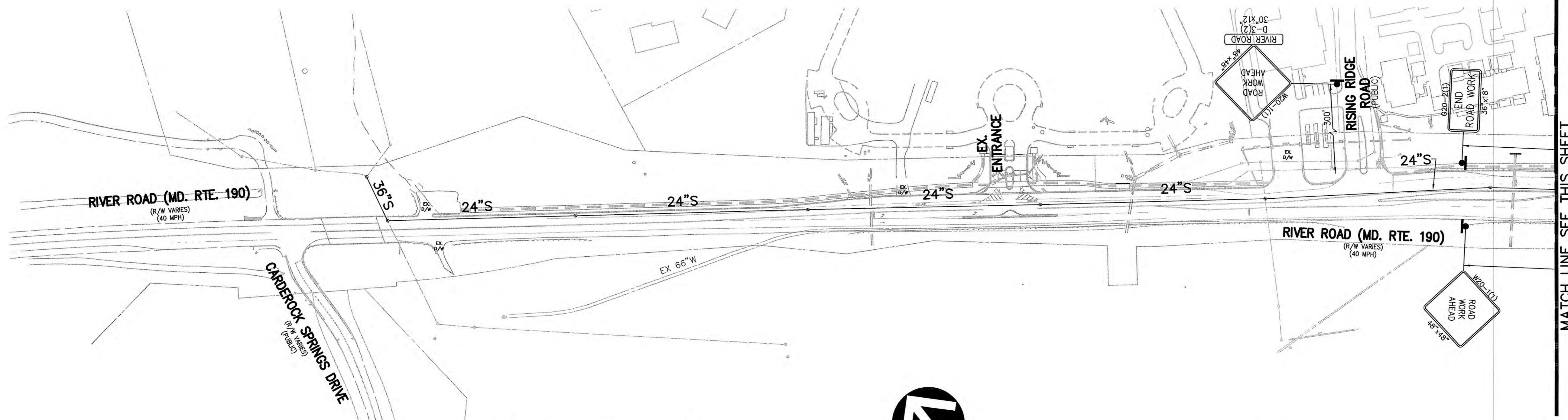
The excavator must notify all public utility companies with underground facilities in the area of proposed excavation and have those facilities located by the utility companies prior to commencing excavation.

**PIKE & ROSE PHASE II
CABIN JOHN SEWER EXTENSION**

9TH ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

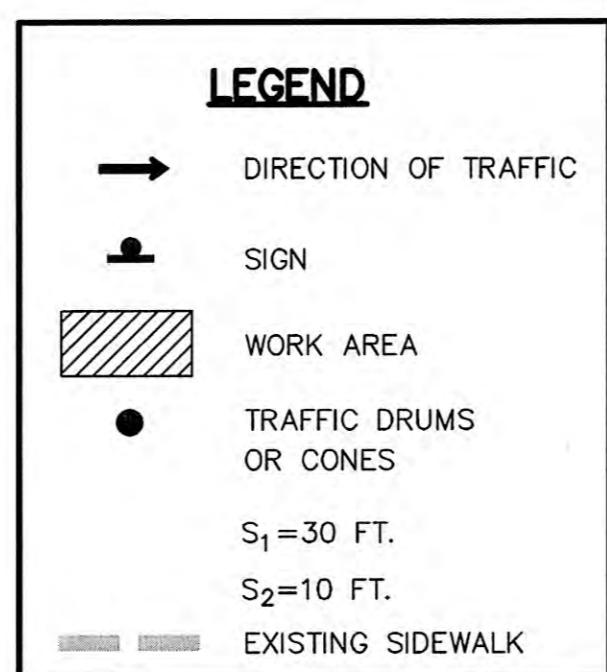
Montgomery County, Maryland

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NOTES:

1. ACCESS TO EXISTING DRIVEWAYS WITHIN WORK ZONE AREA SHALL REMAIN OPEN AT ALL TIMES.
2. CONTRACTOR SHALL COORDINATE WITH ALL ON GOING CONSTRUCTION IN THE AREA TO RESOLVE ANY/ALL ISSUES THAT WOULD BE IN CONFLICT WITH OTHER PROJECTS AND TRAFFIC CONTROLS.
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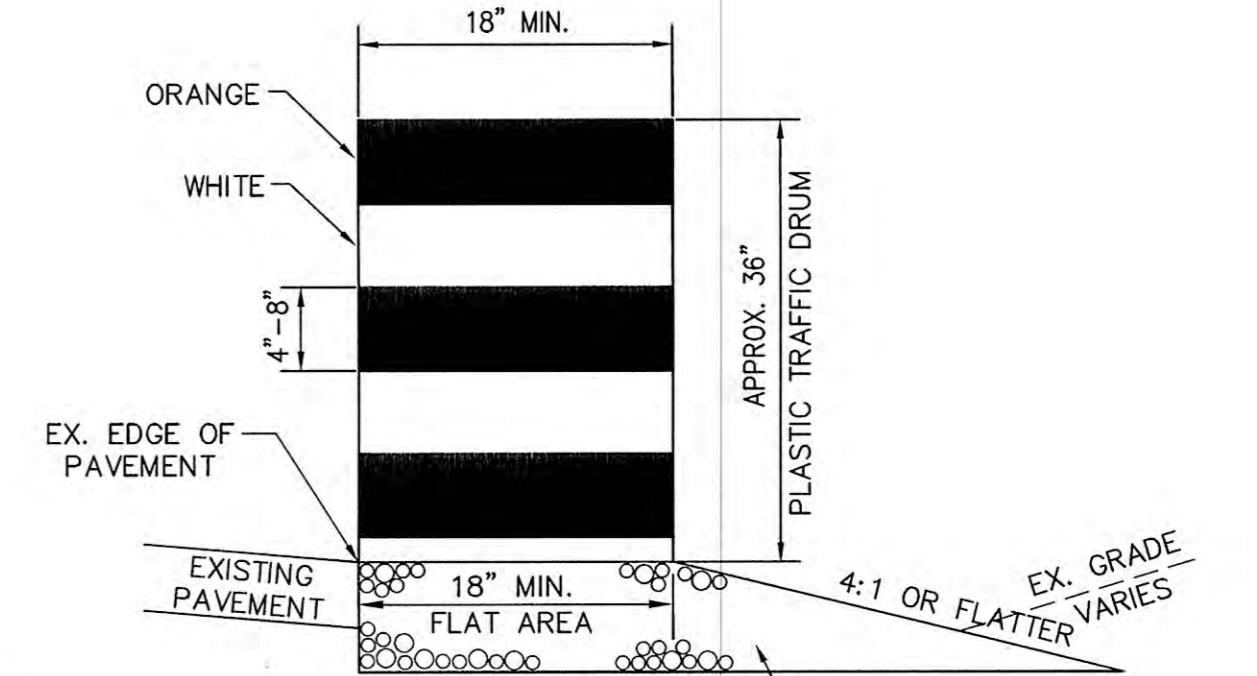
GRAPHIC SCALE
(IN FEET)
1 inch = 100 ft.

SEQUENCE OF CONSTRUCTION (PHASE 3)

WORK DURATION: TWO WEEKS

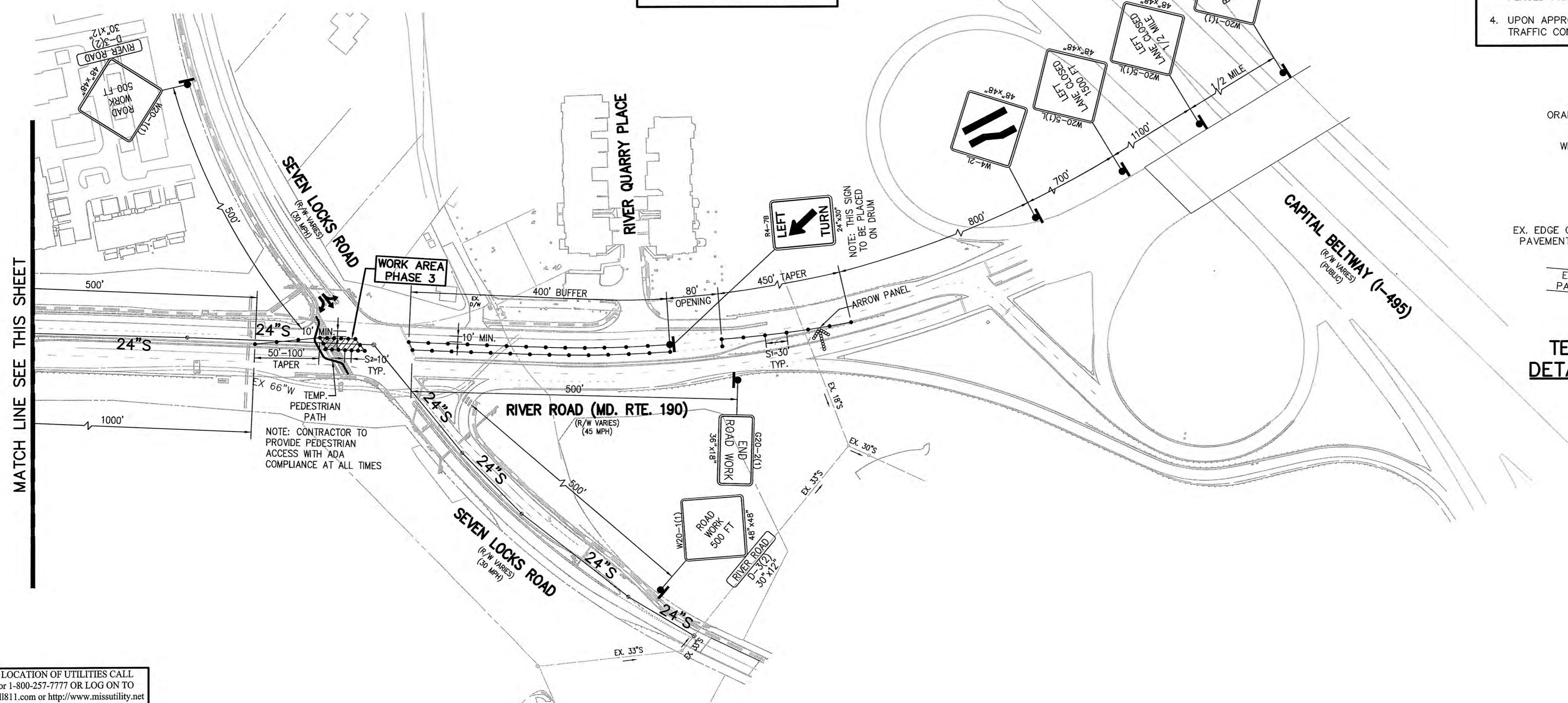
MD-104.04-03 LEFT LANE CLOSURE/MULTILANE DIVIDED GREATER THAN 40 MPH

1. PLACE ALL SIGNS AND CHANNELIZING DEVICES AS SHOWN ON PLAN.
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3. ALL WARNING SIGNS NOT APPLICABLE TO THE ACTUAL SITUATION SHALL BE REMOVED AND/OR COVERED DURING THE NON APPLICABLE PERIODS. SIDEWALK & ROADWAY SHALL BE OPENED TO ITS FULL CROSS-SECTION PRIOR TO THE END OF EACH WORKING DAY. STEEL PLATES SHALL BE PLACED PRIOR TO FINAL BACKFILL AND PAVEMENT RESTORATION.
4. UPON APPROVAL BY MDSHA AND MCDOT INSPECTOR, REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN TO TRAFFIC.

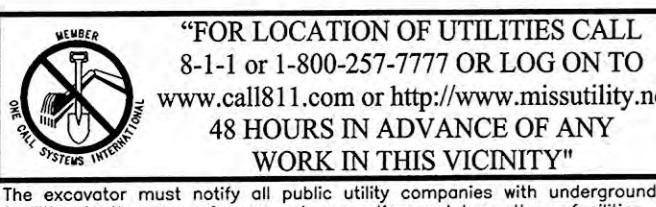


TEMPORARY AGGREGATE RAMP DETAIL FOR NON-WORKING HOURS

NOT TO SCALE



MATCH LINE SEE THIS SHEET



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SHA TRACKING#

SHA MOT-4 OF 9



I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME,
AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS
OF THE STATE OF MARYLAND.
REGISTERED NO. 20510
EXPIRATION DATE: JULY 14, 2016

VIKA REVISIONS

6/10/2016 BID SET
DATE: JUNE, 2016

DES. DWN.
SHP JAR

SCALE: 1"=100'
1"=100'

PROJECT/FILE NO.
VM1538N

SHEET NO.
SHA MOT-4 OF 9

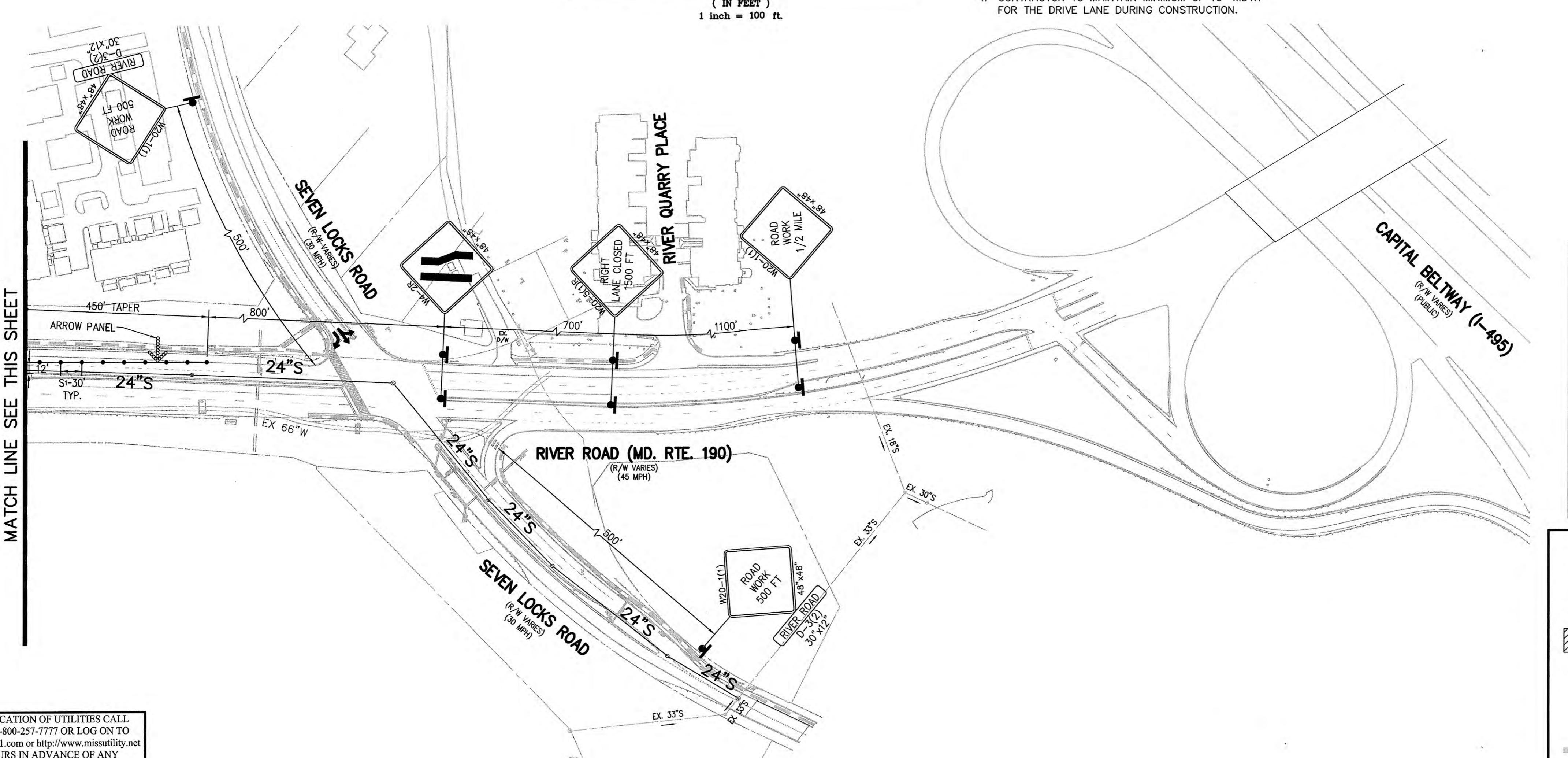
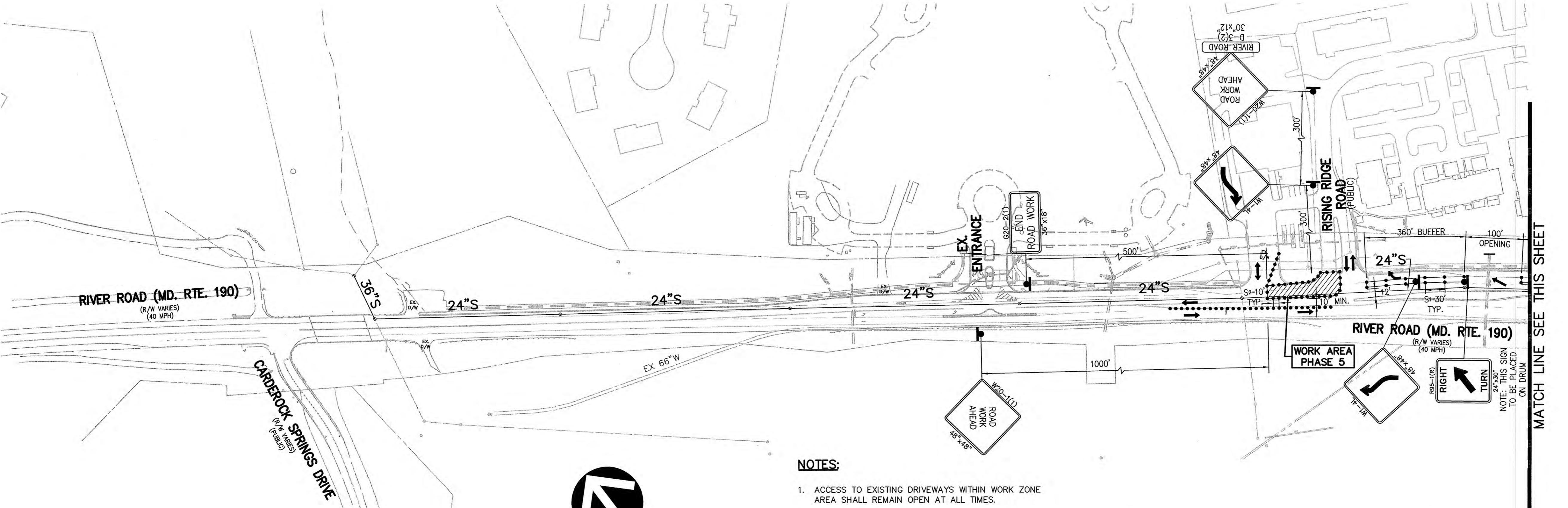
MAINTENANCE OF TRAFFIC
PLAN
FOR UTILITY CONSTRUCTION
PHASE 5



I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME,
AND THAT I AM DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS
OF THE STATE OF MARYLAND.
JEFFREY B. AMATO, LICENSE #2030
EXPIRATION DATE: JULY 14, 2016

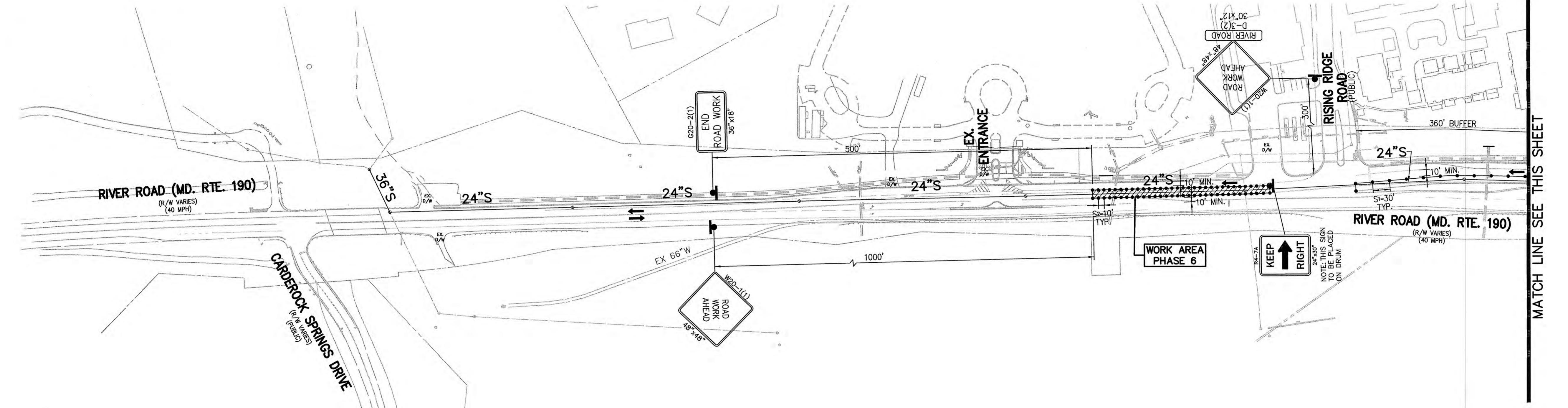
VIKA REVISIONS

6/10/2016 BID SET
DATE: JUNE, 2016
DES. SHP DWN. JAR
SCALE: 1"=100'
PROJECT/FILE NO. VM1538N
SHEET NO. K:\\V100\\2009\\158\\cabinet\\construction documents\\Phase Two\\Cabin John\\S1538N\\J07-Sha499~
SHA MOT-6 OF 9



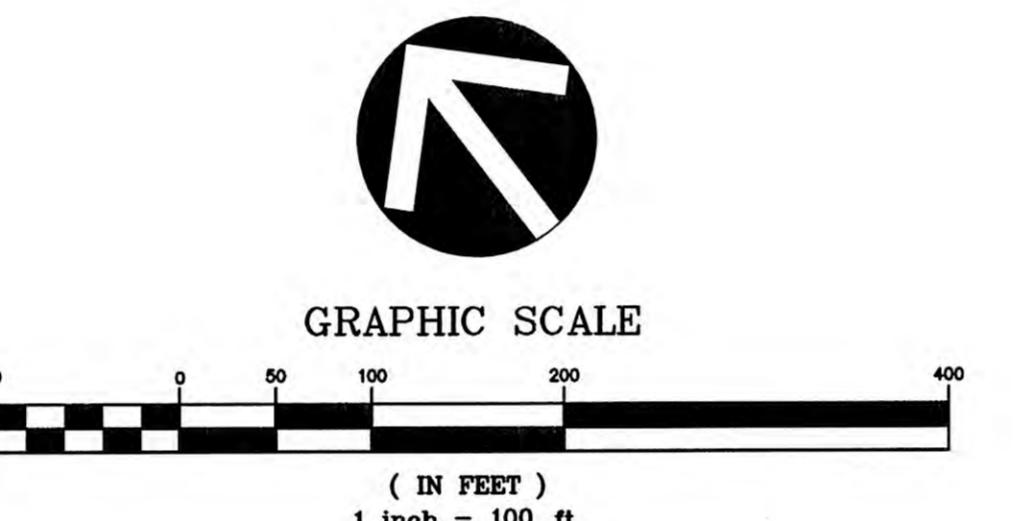
LEGEND	
→	DIRECTION OF TRAFFIC
■	SIGN
▨	WORK AREA
●	TRAFFIC DRUMS OR CONES
S ₁ =30 FT.	
S ₂ =10 FT.	
▨	EXISTING SIDEWALK

SHA TRACKING# **SHA MOT-6 OF 9**



NOTES:

1. ACCESS TO EXISTING DRIVEWAYS WITHIN WORK ZONE AREA SHALL REMAIN OPEN AT ALL TIMES.
 2. CONTRACTOR SHALL COORDINATE WITH ALL ON GOING CONSTRUCTION IN THE AREA TO RESOLVE ANY/ALL ISSUES THAT WOULD BE IN CONFLICT WITH OTHER PROJECTS AND TRAFFIC CONTROLS.
 3. ROADWAYS TO BE REOPENED AT THE END OF EACH WORKING DAY.
 4. CONTRACTOR TO MAINTAIN MINIMUM OF 10' WIDTH FOR THE DRIVE LANE DURING CONSTRUCTION.



LEGEND

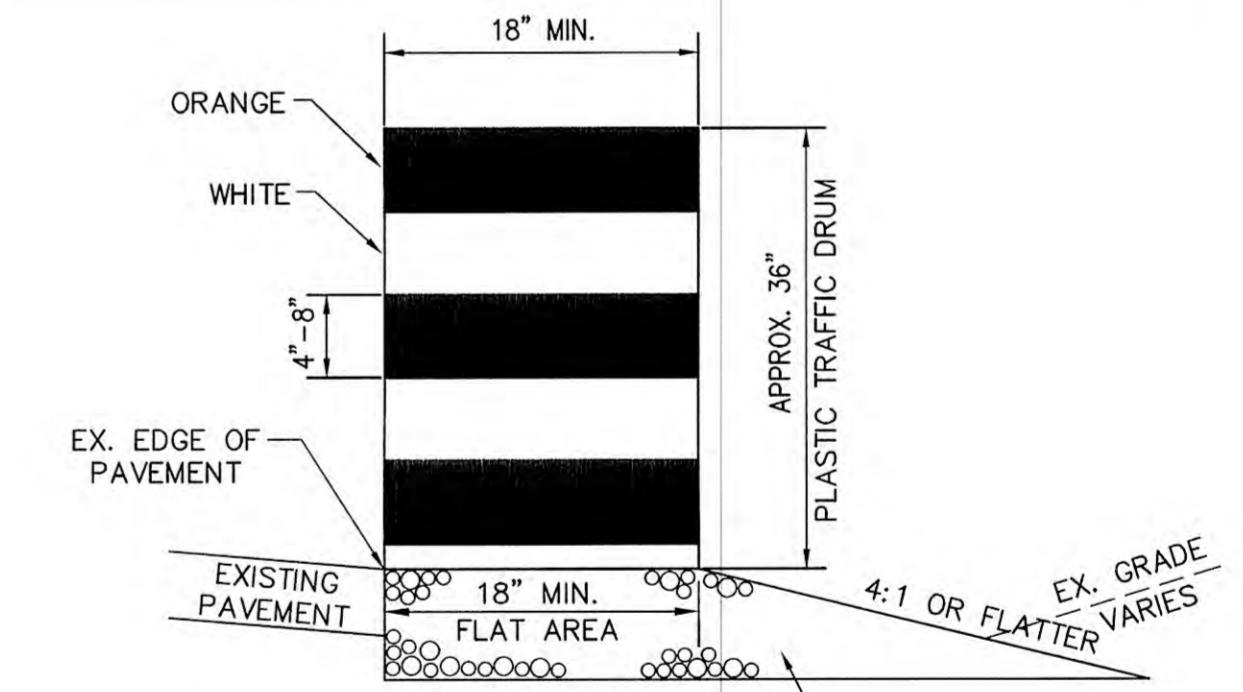
- DIRECTION OF TRAFFIC
SIGN
WORK AREA
TRAFFIC DRUMS
OR CONES

SEQUENCE OF CONSTRUCTION (PHASE 6)

WORK DURATION: TWO WEEKS

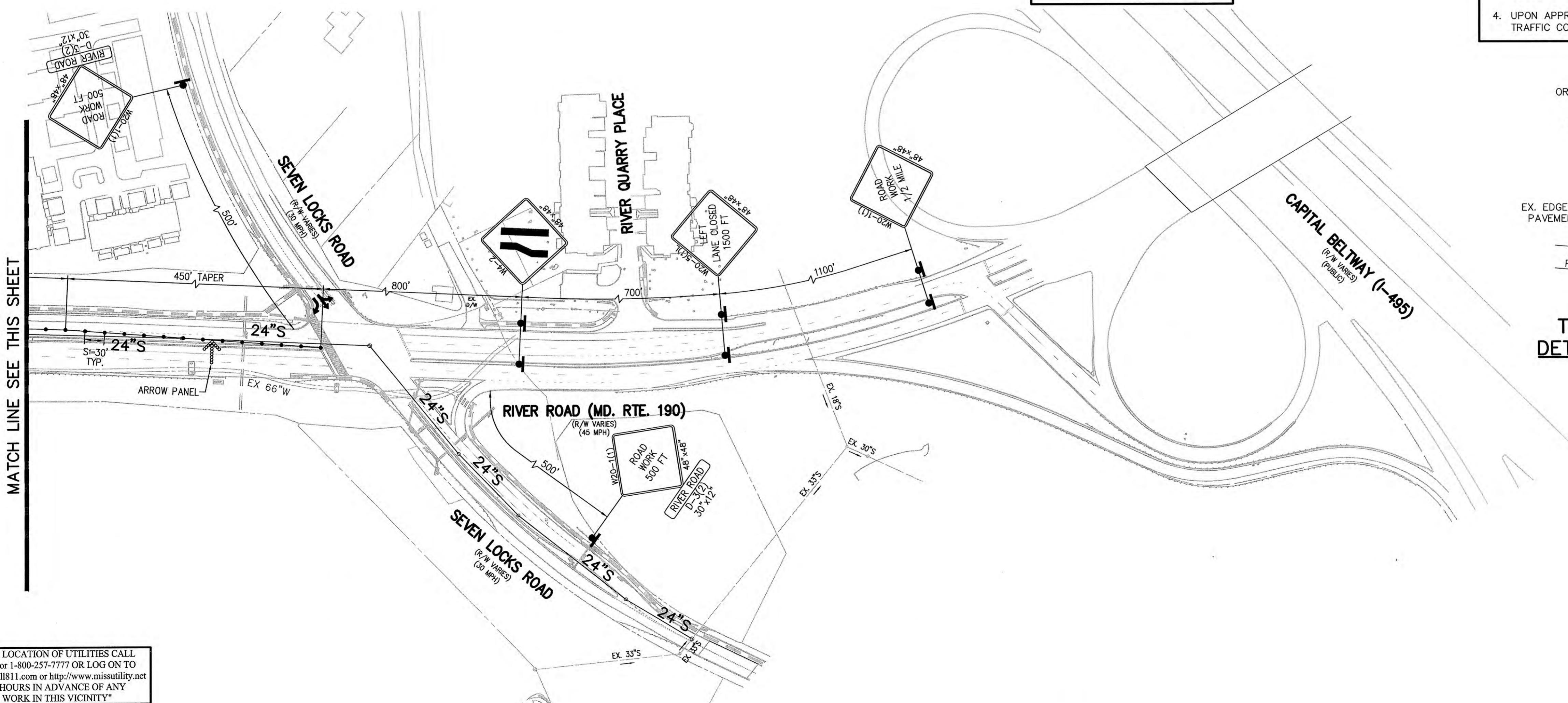
MD-104.03-03 LEFT LANE CLOSURE/MULTILANE UNDIV. GREATER THAN 40 MPH

1. PLACE ALL SIGNS AND CHANNELIZING DEVICES AS SHOWN ON PLAN.
 2. CONSTRUCT PROPOSED SEWER AND PAVEMENT PATCH ALONG RIVER ROAD AS PER THE DESIGN PLANS.
 3. ALL WARNING SIGNS NOT APPLICABLE TO THE ACTUAL SITUATION SHALL BE REMOVED AND/OR COVERED DURING THE NON APPLICABLE PERIODS. SIDEWALK & ROADWAY SHALL BE OPENED TO ITS FULL CROSS-SECTION PRIOR TO THE END OF EACH WORKING DAY. STEEL PLATES SHALL BE PLACED PRIOR TO FINAL BACKFILL AND PAVEMENT RESTORATION.
 4. UPON APPROVAL BY MDSHA AND MCDOT INSPECTORS, REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN TO TRAFFIC.



TEMPORARY AGGREGATE RAMP DETAIL FOR NON-WORKING HOURS

NOT TO SCALE



The excavator must notify all public utility companies with underground facilities in the area of proposed excavation and have those facilities located by the utility companies prior to commencing excavation.

Digitized by srujanika@gmail.com

IT-MOT-SHA-3 Plotted By: sidell

UT: MOT SHA 7, Plotted By: ridall

IA TRACKING#

SHEET NO.
GIA MOT 3 OF 6
1501-1

SHA M01-7 OF 9

C-12

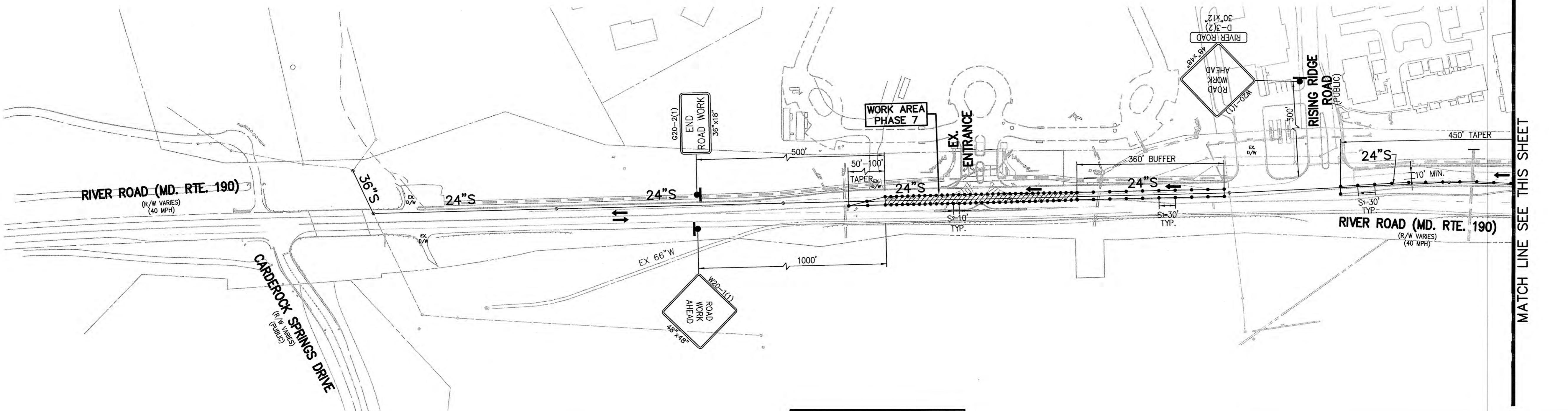
SHEET NO. 1501-2
CHA-MOT 7 OF 9

SHAW MUL-7 OF 9

C-12

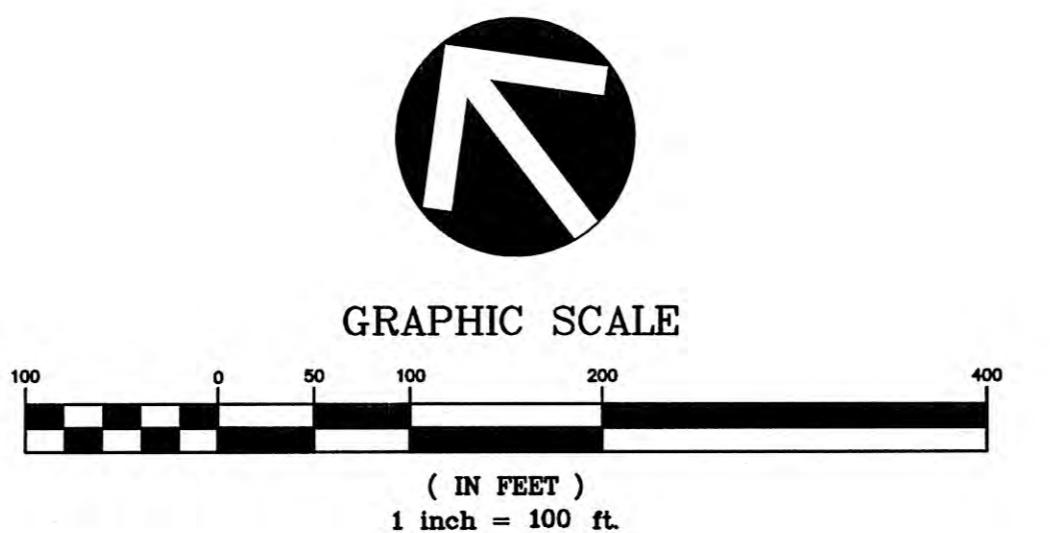
-7 OF 9 K:\

12



NOTES:

1. ACCESS TO EXISTING DRIVEWAYS WITHIN WORK ZONE AREA SHALL REMAIN OPEN AT ALL TIMES.
2. CONTRACTOR SHALL COORDINATE WITH ALL ON GOING CONSTRUCTION IN THE AREA TO RESOLVE ANY/ALL ISSUES THAT WOULD BE IN CONFLICT WITH OTHER PROJECTS AND TRAFFIC CONTROLS.
3. ROADWAYS TO BE REOPENED AT THE END OF EACH WORKING DAY.
4. CONTRACTOR TO MAINTAIN MINIMUM OF 10' WIDTH FOR THE DRIVE LANE DURING CONSTRUCTION.



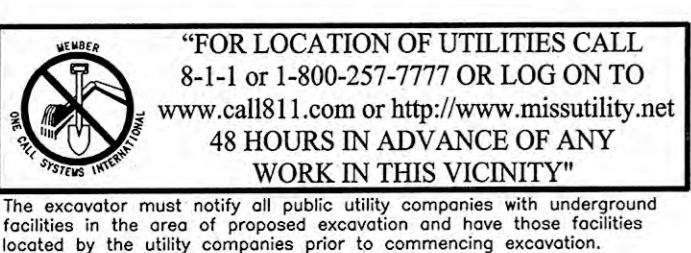
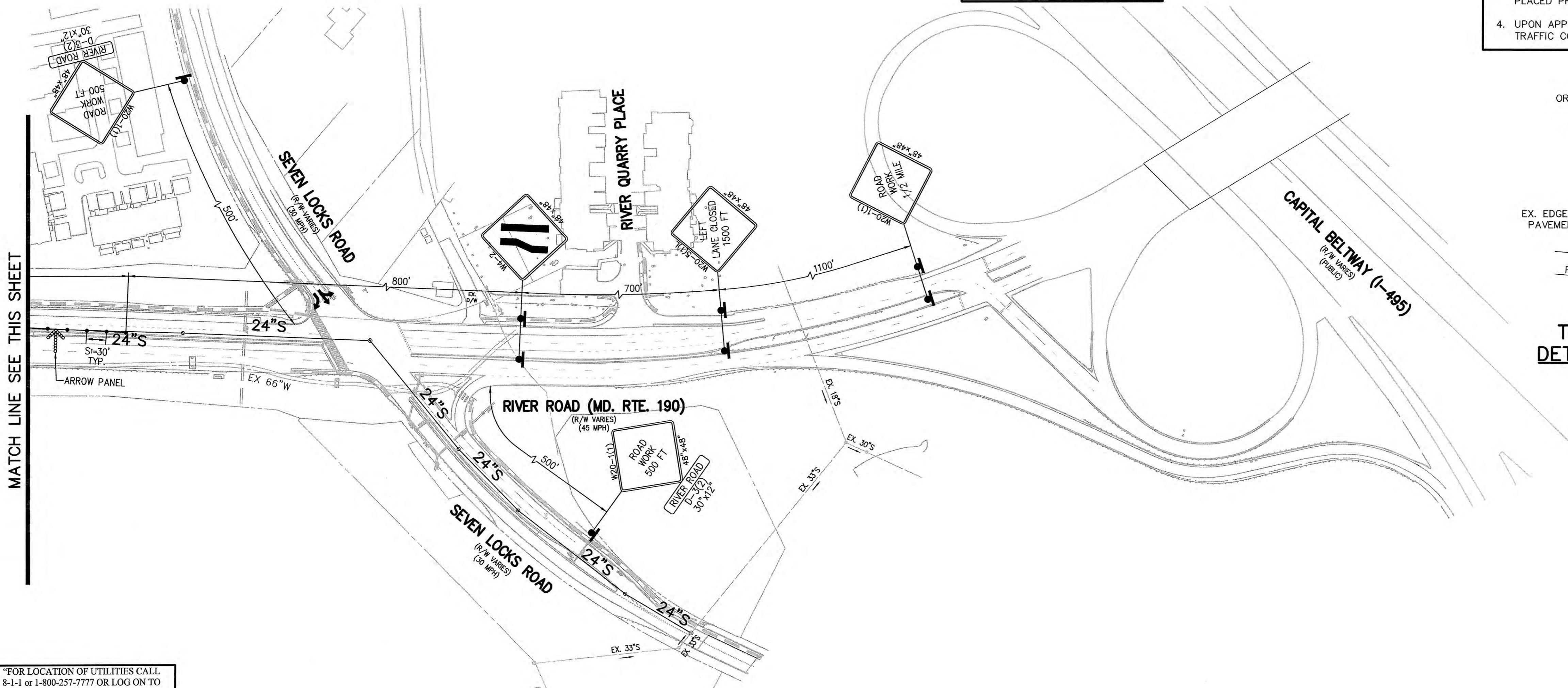
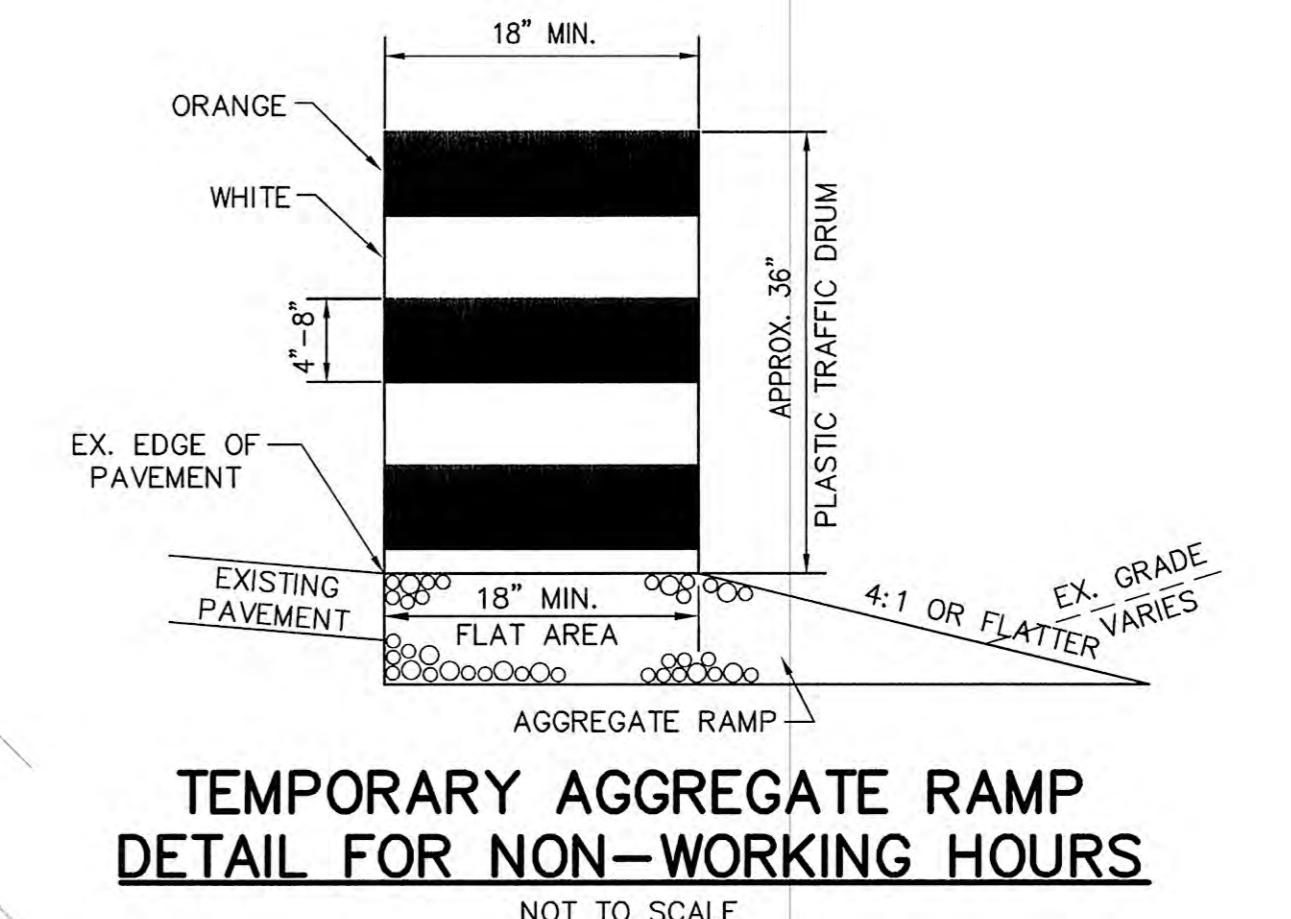
LEGEND	
→	DIRECTION OF TRAFFIC
■	SIGN
▨	WORK AREA
●	TRAFFIC DRUMS OR CONES
S ₁ =30 FT.	
S ₂ =10 FT.	
—	EXISTING SIDEWALK

SEQUENCE OF CONSTRUCTION (PHASE 7)

WORK DURATION: TWO WEEKS

MD-104.03-03 LEFT LANE CLOSURE/MULTILANE UNDIV. GREATER THAN 40 MPH

1. PLACE ALL SIGNS AND CHANNELIZING DEVICES AS SHOWN ON PLAN.
2. CONSTRUCT PROPOSED SEWER AND PAVEMENT PATCH ALONG RIVER ROAD AS PER THE DESIGN PLANS.
3. ALL WARNING SIGNS NOT APPLICABLE TO THE ACTUAL SITUATION SHALL BE REMOVED AND/OR COVERED DURING THE NON APPLICABLE PERIODS. SIDEWALK & ROADWAY SHALL BE OPENED TO ITS FULL CROSS-SECTION PRIOR TO THE END OF EACH WORKING DAY. STEEL PLATES SHALL BE PLACED PRIOR TO FINAL BACKFILL AND PAVEMENT RESTORATION.
4. UPON APPROVAL BY MDSHA AND MCDOT INSPECTORS, REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN TO TRAFFIC.



I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME,
AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER PRACTICING THE LAWS
OF THE STATE OF MARYLAND.
JEFFREY B. ANATEAU, LICENSE NO. 2020
EXPIRATION DATE: JULY 14, 2016

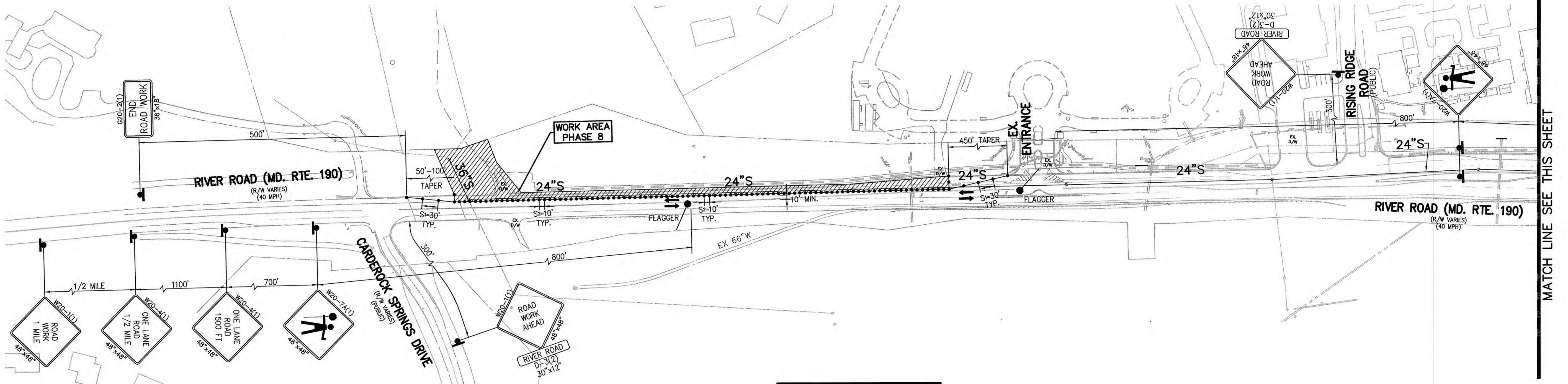
6/10/2016 BID SET
DATE: JUNE, 2016
DES. DWN.
SHP. JAR

SCALE: 1"=100'
PROJECT/FILE NO. VM1538N

SHEET NO. 9
K:\\1501\\2020\\1538\\Construction documents\\Phase Two\\ZBBN\\JOHN153850.JDW\\SHA-499~

**PIKE & ROSE PHASE II
CABIN JOHN SEWER EXTENSION**

9TH ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND



MATCH LINE SEE THIS SHEET

NOTES:

1. ACCESS TO EXISTING DRIVEWAYS WITHIN WORK ZONE SHALL REMAIN OPEN AT ALL TIMES.
2. CONTRACTOR SHALL COORDINATE WITH ALL ON GOING CONSTRUCTION IN THE AREA TO RESOLVE ANY/ALL ISSUES THAT WOULD BE IN CONFLICT WITH OTHER PROJECTS AND TRAFFIC CONTROLS.
3. ROADWAYS TO BE REOPENED AT THE END OF EACH WORKING DAY.
4. CONTRACTOR TO MAINTAIN MINIMUM OF 10' WIDTH FOR THE DRIVE LANE DURING CONSTRUCTION.



GRAPHIC SCALE
(IN FEET)
1 inch = 100 ft.

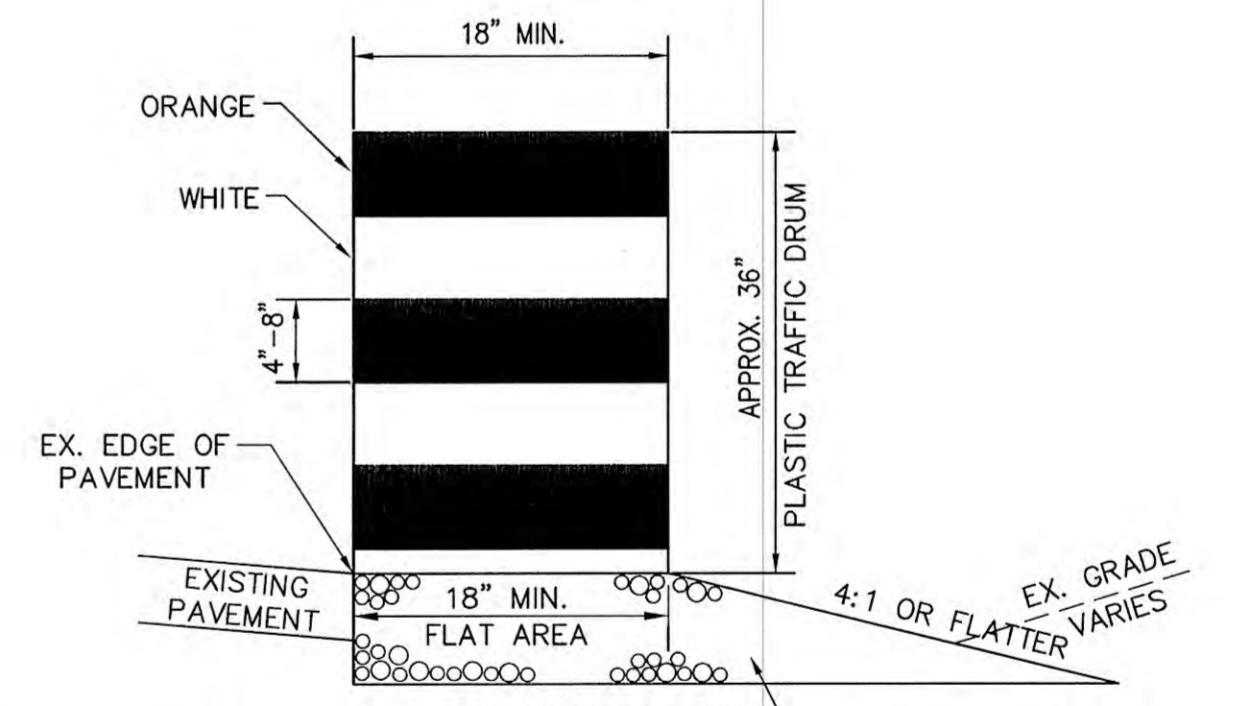
LEGEND	
→	DIRECTION OF TRAFFIC
■	SIGN
▨	WORK AREA
●	TRAFFIC DRUMS OR CONES
S ₁ =30 FT.	
S ₂ =10 FT.	
—	EXISTING SIDEWALK

SEQUENCE OF CONSTRUCTION (PHASE 8)

WORK DURATION: TWO WEEKS

MD-104.02-09 FLAGGING OPERATION GREATER THAN 40 MPH

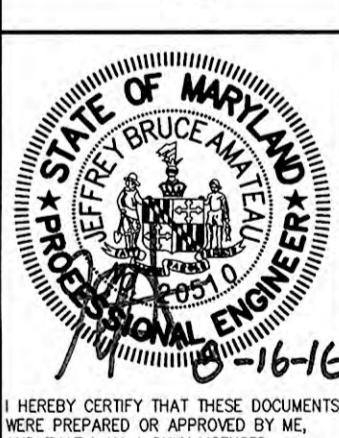
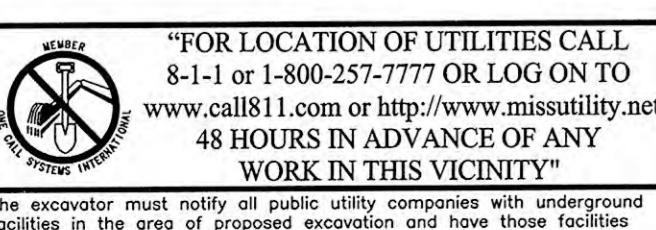
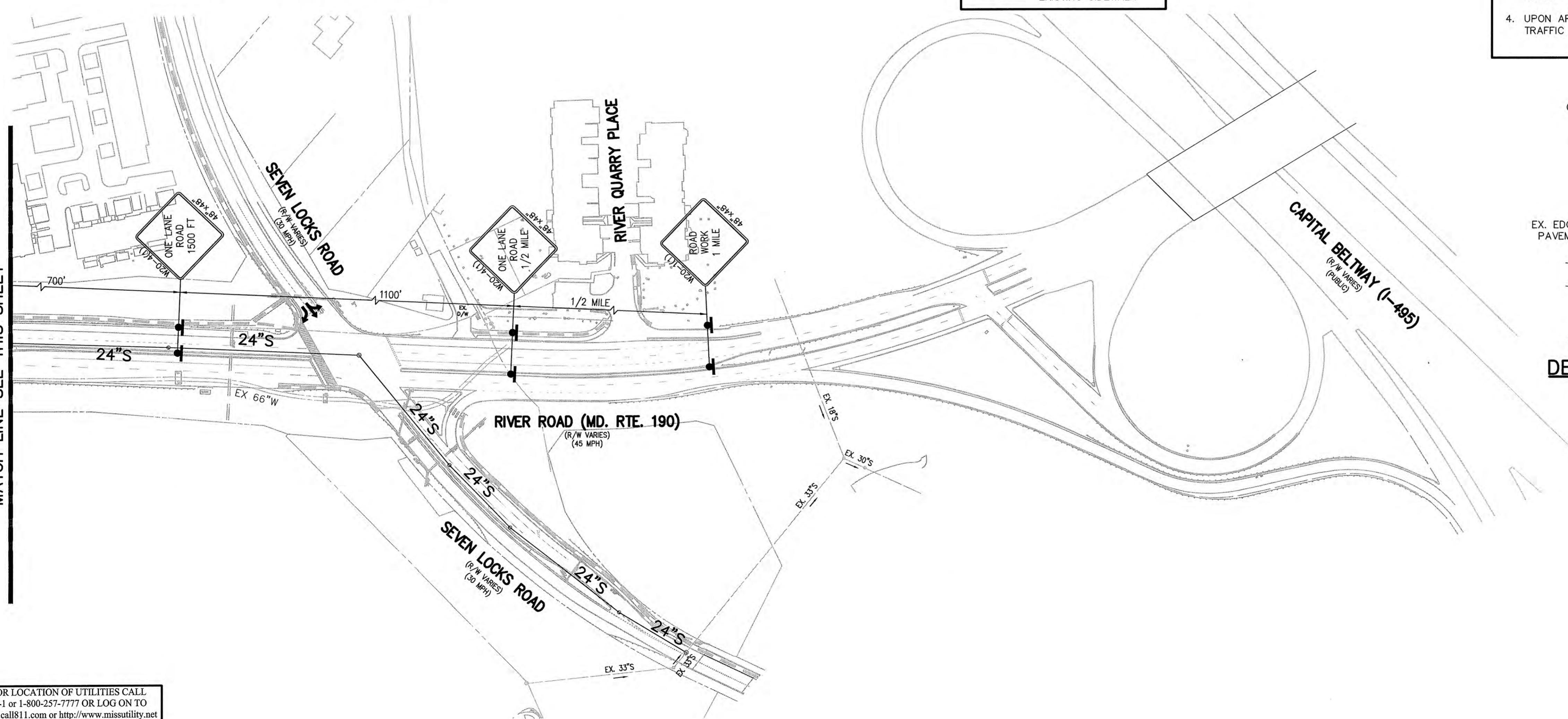
1. PLACE ALL SIGNS AND CHANNELIZING DEVICES AS SHOWN ON PLAN.
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4. UPON APPROVAL BY MDSHA AND MCDOT INSPECTORS, REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN TO TRAFFIC.



TEMPORARY AGGREGATE RAMP DETAIL FOR NON-WORKING HOURS

NOT TO SCALE

MATCH LINE SEE THIS SHEET



I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME,
AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS
OF THE STATE OF MARYLAND.
JEFFREY A. BRUCE, PE, #20510
EXPIRATION DATE: JULY 14, 2016
20510

VIKA REVISIONS

6/10/2016 BID SET
DATE: JUNE, 2016

DES. DWN.
SHP JAR

SCALE: 1"=100'
PROJECT/FILE NO.
VM1538N

NOTE: This construction document pertains to Cabin John Phase Two. It is not to be confused with Cabin John Phase One.