MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION

TRANSPORTATION OPERATIONS PLAN

A. THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
1. POST A LIST OF LOCAL EMERGENCY RESPONSE AGENCIES NEAR THE PROJECT'S CONSTRUCTION OFFICE/TRAFFIC CENTER.
2. A EMERGENCY INCIDENT MANAGEMENT PLAN AND EQUIPMENT / MATERIALS TO BE IMPLEMENTED IN THE PLAN PRESCRIBED AS NECESSARY.
3. DESIGN/BUILDING PERMITS TO THE PROJECT INSPECTOR AND DESIGN BUILD CONSTRUCTION MANAGER OF PLANNED LANE CLOSURES AND/OR OTHER OPERATIONS DURING WATER MAINS OR SEWER LINES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY OTHER OPERATIONS DURING WATER MAINS OR SEWER LINES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY OTHER OPERATIONS DURING WATER MAINS OR SEWER LINES.
4. A CORRESPONDENCE WITH VDOT, THE DISTRICT WORK ZONE SAFETY COORDINATOR, AND THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY OTHER OPERATIONS DURING WATER MAINS OR SEWER LINES.
5. A REVIEW OF THE PROJECT INCIDENTS/CRASHES WITHIN THE WORK ZONE. THE PURPOSE OF THIS REVIEW IS TO IMPLEMENT LESSONS LEARNED FROM INCIDENTS DOCUMENTED.
6. AN ON SITE REVIEW OF THE PROJECT'S WORK ZONE TRAFFIC CONTROL BY THE CONTRACTOR'S WORK ZONE SAFETY MANAGER DURING THE THIRD TO FIFTH DAY OF IMPLEMENTATION OF THE TMP'S NEW WORK ZONE TRAFFIC PATTERN. THE PROJECT INSPECTOR WILL CONDUCT A VISUAL INSPECTION OF THE WORK ZONE TRAFFIC CONTROL TO DETERMINE IF THE CONTRACTOR IS COMPLYING WITH THE要求.

B. THE PROCESS TO NOTIFY THE REGIONAL TRANSPORTATION OPERATIONS CENTER TO PLACE LANE CLOSURE INFORMATION ON THE SYSTEM AND NOTIFY TRAFFIC ENGINEERS:
1. CONTRACTOR TO NOTIFY THE PROJECT INSPECTOR AND DESIGN BUILD CONSTRUCTION MANAGER OF PLANNED LANE CLOSURES A MINIMUM OF 7 DAYS IN ADVANCE OF IMPLEMENTATION.
2. THE PROJECT INSPECTOR AND DESIGN BUILD CONSTRUCTION MANAGER CALL THE REGIONAL TRANSPORTATION OPERATIONS CENTER, A STAFF MEMBER WILL ENTER THE DATA INTO THE TRAFFIC CONTROL SYSTEMS.

C. TRAFFIC BACKUP NOTIFICATION:
2. THE CONTRACTOR WILL THEN NOTIFY THE DEPARTMENT OF TRANSPORTATION OF THE ACTION NEEDED TO Mitigate THE IMPACT.
3. THE STAFF MEMBER WILL ENTER AN ON-SITE REVIEW OF THE WORK ZONE'S SAFETY AND ARTIFICIAL LIGHTING TO Mitigate THE IMPACT.
4. THE CONTRACTOR WILL THEN NOTIFY THE DEPARTMENT OF TRANSPORTATION OF THE ACTION NEEDED TO Mitigate THE IMPACT.

D. PROCESSES TO RESPOND TO TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE ARE DEFINED IN THE INCIDENT MANAGEMENT PLAN:
1. A LIMITED INCIDENT IS ONE WHICH WILL TAKE FIFTEEN (15) MINUTES OR LESS TO RETURN TO NORMAL OPERATIONS AND IS CONSIDERED A MINOR INCIDENT.
2. A MINOR INCIDENT IS ONE WHICH WILL TAKE GREATER THAN SIXTY (60) MINUTES TO CLEAR AND IS CONSIDERED A MAJOR INCIDENT.
3. A MAJOR INCIDENT IS ONE WHICH WILL TAKE GREATER THAN SIXTY (60) MINUTES TO CLEAR AND IS CONSIDERED A MAJOR INCIDENT.

E. DURING THE FIRST 30 MINUTES OF THE NEW WORK ZONE TRAFFIC PATTERN, THE CONTRACTORS WORK ZONE SAFETY КоORDINATORS, Project Inspectors, AND WORK ZONE TRAFFIC ENGINEERS SHALL INTERACT WITH THE 「ツ」 TO DETERMINE IF THE WORK ZONE TRAFFIC CONTROL DEVICE(S) ARE FUNCTIONING PROPERLY. THE CONTRACTOR SHALL NOT PROCEED WITH THE PROJECT UNLESS THE STAFF MEMBER ENTERED AN ON-SITE REVIEW OF THE WORK ZONE'S SAFETY AND ARTIFICIAL LIGHTING TO Mitigate THE IMPACT.

F. PERIODIC REVIEWS WITH DESIGN STAFF AND CONTRACTOR STAFF SHALL BE CONDUCTED THROUGHOUT THE LIFE OF THE PROJECT TO IDENTIFY POTENTIAL PROBLEMS.

G. THE EMERGENCY CONTACT FOR THIS PROJECT SHALL BE:
1. THE FOLLOWING IS A LIST OF LOCAL EMERGENCY RESPONSE AGENCIES INSIDE THE PROJECT'S CONSTRUCTION OFFICE/TRAILER.

PUBLIC COMMUNICATIONS PLAN

THE PUBLIC COMMUNICATION PLAN SHALL CONSIST OF THE FOLLOWING ACTIONS:
1. A LIST OF LOCAL EMERGENCY RESPONSE AGENCIES INSIDE THE PROJECT'S CONSTRUCTION OFFICE/TRAILER.
2. A REVIEW OF THE PROJECT INSPECTOR AND DESIGN BUILD CONSTRUCTION MANAGER OF PLANNED LANE CLOSURES A MINIMUM OF 7 DAYS IN ADVANCE OF IMPLEMENTATION.
3. A VISUAL INSPECTION OF THE WORK ZONE TRAFFIC CONTROL TO DETERMINE IF THE CONTRACTOR IS COMPLYING WITH THE requirements.
4. AN ON-SITE REVIEW OF THE WORK ZONE TRAFFIC CONTROL TO DETERMINE IF THE CONTRACTOR IS COMPLYING WITH THE requirements.

INCIDENT MANAGEMENT PLAN

THIS PROJECT WILL UTILIZE A TIERED INCIDENT MANAGEMENT PLAN. THIS PLAN HIGHLIGHTS THE FOLLOWING ACTIONS TO BE TAKEN BY THE CONTRACTOR IN RESPONSE TO INCIDENTS AND ACCIDENTS:

1. A LIMITED INCIDENT IS ONE WHICH WILL TAKE FIFTEEN (15) MINUTES OR LESS TO RETURN TO NORMAL OPERATIONS AND IS CONSIDERED A MINOR INCIDENT.
2. A MINOR INCIDENT IS ONE WHICH WILL TAKE GREATER THAN SIXTY (60) MINUTES TO CLEAR AND IS CONSIDERED A MAJOR INCIDENT.
3. A MAJOR INCIDENT IS ONE WHICH WILL TAKE GREATER THAN SIXTY (60) MINUTES TO CLEAR AND IS CONSIDERED A MAJOR INCIDENT.

IN ALL OF THE ABOVE INCIDENTS, CLOSE COORDINATION WITH VDOT NORTHWEST REGIONAL TRAFFIC OPERATIONS CENTER (NWRO TOC) WILL BE MAINTAINED.
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION

Phase 1 - Day Work
- Construct proposed sidewalk that is behind the existing curb approaching the Rio Road/US-29 intersection.

Phase 1 - Night Work
- Remove existing curb and install proposed pavement that ties into pavement installed during Phase I - Day Work.
- Close lane adjacent to curb removal utilizing TTC 1.0
- Install piles for proposed retaining walls. Pile installations shall be covered with steel plates at the end of the night work period.
- Close left lane approaching Rio Road/US-29 intersection utilizing TTC 18.0

Phase 2
- Construct temporary pavement on the right shoulder of SB US-29 from Sta. 57+75 to 53+50
- Close adjacent lanes to temporary crossovers using TTC 17.0
- Construct temporary pavement on the right shoulder of SB US-29 from Sta. 57+75 to 53+50
- Close adjacent lane utilizing TTC 16.0
- Construct Rio Road bridge over US-29 Depressed Roadway (DPR), retaining walls to separate US-29 DPR from US-29 local lanes, and US-29 DPR
- Implement full closure of Rio Road/US-29 intersection while maintaining on US-29 3 lanes northbound and 2 lanes southbound. Perform these closures using TTCs 16.0, 17.0, and 18.0.
- Remove existing signals on US-29 at Fashion Square Drive/Shoppers World and at Albemarle Square Drive.
- In order to remove signals utilizing TTCs 16.0 and 17.0.

Phase 3
- Complete remaining work along US-29 approaching the Rio Road/US-29 intersection.
- This work may require permanent shoulder closures and temporary lane closures, including the depressed roadway travel lanes.
- All lane closures and lane shifts during the day closure hours (5 PM - 6 AM)
- Construct temporary crossovers to temporary pavement at night closure hours 12 AM - 5 AM utilizing TTC 16.0
- Close temporary crossovers and reconstruct median at Myers Drive, Berkmar Drive, and at the commercial driveway (Hardee's)
- This work may utilize permanent shoulder closures and temporary lane closures, including the depressed roadway travel lanes.
- Note that the above work should not occur during the same work period and at the same time. TTCs 16.0 and 17.0 to be in place during the same work periods.

Note that the above work should not occur during the same work period and at the same time. TTCs 16.0 and 17.0 to be in place during the same work periods.

Project Manager:
Dave Covington, P.E. (540) 292-3802
NXL Constr. Svcs., Inc. (804) 644-4600 (OCT. 2014)
Rummel Klepper & Kahl, LLP (804) 782-1903
Accumark (804) 550-7740
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 1 - DAY WORK

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROPOSED CONSTRUCTION THIS PHASE
PROPOSED IMPROVEMENTS IN PLACE
TEMPORARY PAVEMENT THIS PHASE
TEMPORARY PAVEMENT IN PLACE

MATCHLINE SHEET 1K(5)
MATCHLINE SHEET 1K(6)

PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.

REFERENCES

ROADWAY ENGINEER

Acquisition of Right of Way.
To be used for any type of and unapproved and are not these plans are unfinished.

Rummel, Klepper & Kahl, LLP

Richmond, Virginia

ROUTE 29 SB
ROUTE 29 NB

SCALE 1' = 100'
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 1 - DAY WORK

PROPOSED CONSTRUCTION THIS PHASE
PROPOSED IMPROVEMENTS IN PLACE
TEMPORARY PAVEMENT THIS PHASE
TEMPORARY PAVEMENT IN PLACE

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MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 1 - NIGHT WORK

CONSTRUCTION SIGNING DETAIL

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way.
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 1 - NIGHT WORK

PROPOSED IMPROVEMENTS IN PLACE

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MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 1 - NIGHT WORK

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PROPOSED CONSTRUCTION THIS PHASE
PROPOSED IMPROVEMENTS IN PLACE
TEMPORARY PAVEMENT THIS PHASE
TEMPORARY PAVEMENT IN PLACE
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 1 - NIGHT WORK

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PROPOSED CONSTRUCTION THIS PHASE
PROPOSED IMPROVEMENTS IN PLACE
TEMPORARY PAVEMENT THIS PHASE
TEMPORARY PAVEMENT IN PLACE
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 2 - 103 DAY CLOSURE

CONSTRUCTION SIGNING DETAIL

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 2 - 103 DAY CLOSURE

PROPOSED IMPROVEMENTS IN PLACE
TEMPORARY PAVEMENT IN PLACE

PROPOSED CONSTRUCTION THIS PHASE
TEMPORARY PAVEMENT THIS PHASE

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M A T C H L I N E  S H E E T  1K (23)

MATCHLINE SHEET 1K(24)

D a v e Covington, P.E.  (540) 2 9 2 - 3 8 0 2

A c c u m a r k (8 0 4) 5 5 0 - 7 7 4 0

PHASE 2 - 103 DAY CLOSURE

M A T C H L I N E  S H E E T  1K (2 4 )
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 2 - 103 DAY CLOSURE

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way.
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 2 - 103 DAY CLOSURE

CONSTRUCTION SIGNING DETAIL

PROPOSED CONSTRUCTION THIS PHASE
PROPOSED IMPROVEMENTS IN PLACE
TEMPORARY PAVEMENT THIS PHASE
TEMPORARY PAVEMENT IN PLACE

TEMP GROUP 2 CHANNELIZING DEVICES
KERR & KNOTTY

CHANNELIZING DEVICES

TEMPORARY PAVEMENT IN PLACE
PROPOSED IMPROVEMENTS IN PLACE
TEMPORARY PAVEMENT THIS PHASE

CONSTRUCTION SIGNING DETAIL

PROPOSED CONSTRUCTION THIS PHASE
PROPOSED IMPROVEMENTS IN PLACE
TEMPORARY PAVEMENT THIS PHASE
TEMPORARY PAVEMENT IN PLACE

350'N 350'N 350'N
11'-0" 11'-0" 11'-0"

ACKNOWLEDGAMENTS

M A T C HLINE SHEET WS2-01 STATION S+500 (HE 29 CONSTR BASELINE)

REFERENCES

( PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC. )

Dave Covington, P.E. (540) 292-3802
NXL Constr. Svcs., Inc. (804) 644-4600 (OCT. 2014)
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ACQUISTION OF RIGHT OF WAY.
CONSTRUCTION OR THE TO BE USED FOR ANY TYPE OF
ANAPPROVED AND ARE NOT THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PHASE 1 - NIGHT WORK
SEQUENCE OF CONSTRUCTION

PHASE 2 - 103 DAY CLOSURE
SEQUENCE OF CONSTRUCTION

PHASE 3
SEQUENCE OF CONSTRUCTION

MAINTENANCE OF TRAFFIC &
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MAINTENANCE OF TRAFFIC &
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 2 - 103 DAY CLOSURE

PROPOSED CONSTRUCTION THIS PHASE
PROPOSED IMPROVEMENTS IN PLACE
TEMPORARY PAVEMENT THIS PHASE
TEMPORARY PAVEMENT IN PLACE

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 2 - 103 DAY CLOSURE

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way.
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 2 - 103 DAY CLOSURE

CONSTRUCTION SIGNING DETAIL

- Proposed Construction This Phase
- Proposed Improvements In Place
- Temporary Pavement This Phase
- Temporary Pavement In Place

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REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION

PHASE 3

CONSTRUCTION SIGNING DETAIL

NOTE: MILL AND OVERLAY SHALL BE PERFORMED ONE LANE AT A TIME UTILIZING TTC 50
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION
PHASE 3

NOTE: MILL AND OVERLAY SHALL BE PERFORMED ONE LANE AT A TIME UTILIZING TTC 10

PROPOSED CONSTRUCTION THIS PHASE
PROPOSED IMPROVEMENTS IN PLACE
TEMPORARY PAVEMENT THIS PHASE
TEMPORARY PAVEMENT IN PLACE
MILL AND OVERLAY

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MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION

PHASE 1 - DAY WORK

RW-201, C-501

360' BUFFER SPACE

PROJECT

100'

SHEET NO.

3

50ft

PROJECT

PT 64+14.97

350ft

12

Cell Revised 12/11/12

11:21:59 AM

SUBSURFACE UTILITY BY, DATE

SURVEYED BY, DATE

PROJECT MANAGER

Rummel Klepper & Kahl, LLP (804) 782-1903

Dave Covington, P.E. (540) 292-3802

SE LINH CTA

MAN XL Constr. Svcs., Inc. (804) 644-4600

(MARCH 2014)

NOTE: MILL AND OVERLAY SHALL BE PERFORMED ONE LANE AT A TIME UTILIZING TTC 110.
MAINTENANCE OF TRAFFIC &
SEQUENCE OF CONSTRUCTION

PHASE 3

NOTE: MILL AND OVERLAY SHALL BE PERFORMED ONE LANE AT A TIME UTILIZING TTC 10.
MAINTENANCE OF TRAFFIC & SEQUENCE OF CONSTRUCTION

PHASE 3

NOTE: MILL AND OVERLAY SHALL BE PERFORMED ONE LANE AT A TIME UTILIZING TTC 11.0