

SCOTTSVILLE PHASE 4A WATER MAIN REPLACEMENT
ACSA Project No. 2019-03

Addendum 2
August 6, 2026

ALBEMARLE COUNTY SERVICE AUTHORITY
ALBEMARLE COUNTY, VIRGINIA



Prepared for:

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SCOTTSVILLE PHASE 4A WATER MAIN REPLACEMENT ADDENDUM 2

The following addenda material is hereby made a part of this Contract and shall be indicated on the Bid Form and in Specification Section 00490 – Receipt of Addenda. The Bidder shall note the following changes, information and/or instructions in connection with the contract work and submit bids governed accordingly.

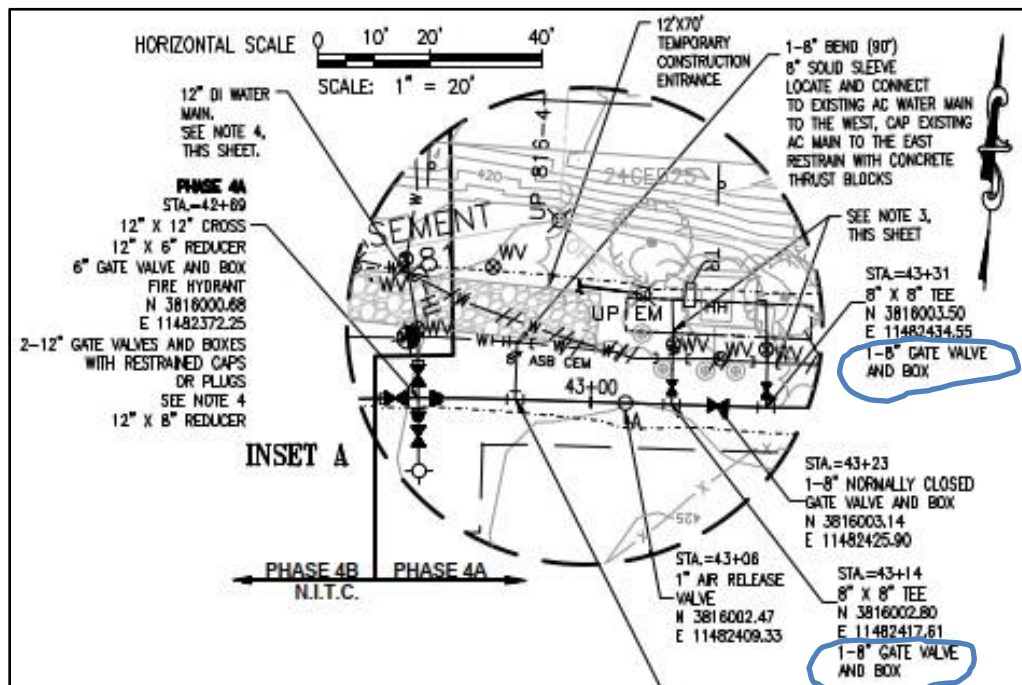
CONTRACT DOCUMENTS

The following changes pertain to the Contract Documents:

CONTRACT DRAWINGS

The following changes pertain to the Contract Drawings:

1. Sheet 7 of 33 – James River Road – Plan and Profile – Sta. 38+50 to 49+50, Note 3 **DELETE** second sentence in Note 3, and **INSERT:**
“REMOVE ENOUGH EXISTING WATER MAIN AND EXISTING VALVES TO CONNECT TO EXISTING WATER MAIN IN LINE AND GRADE WITH DI SOLID SLEEVES.”
2. Sheet 7 of 33 – James River Road – Plan and Profile – Sta. 38+50 to 49+50, Inset A **INCLUDE** 8-inch gate valves shown at Sta. 43+14 and 43+31 and circled in blue on following partial view of Inset A:



3. Sheet 9 of 33 – James River Road to Moores Hill – Plan and Profile – Sta. 58+50 to Sta. 66+00, Note 10:

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At the end of Note 10, **INSERT**: “Use of steel plates will require an Engineer’s design provided by the contractor for placement and proper anchoring based on traffic load and traffic counts”.

4. Sheet 12 of 33 – Plan and Profile – Bird Street Sta. 90+00 to Sta. 93+05, Page Street Sta. 100+00 to 102+50, Note 5:

At the end of 2nd sentence in Note 5, **INSERT**: “as part of MOT and detour plan submittal by contractor to VDOT for review and approval.”

5. Sheet 14 of 33 – Page Street to Fleet Street – Plan and Profile – Sta. 106+00 to Sta. 111+50, Note 3:

At beginning of Note 3, **INSERT**: “Contractor to prepare and submit required MOT and detour plan to VDOT for approval.”

6. Sheet 15 of 33 – Plan and Profile – W. Main Street to Valley St. to Fleet St.

- Note 6, at end of note, **INSERT**: “Use of steel plates will require an Engineer’s design provided by the contractor for placement and proper anchoring based on traffic load and traffic counts”.
- Note 7, at end of note, **INSERT**: “Any guardrail alteration and reinstallation to be performed by certified guardrail installer”.
- Notes 8 and 9, at the end of each note, **INSERT**: “Contractor to submit required MOT and detour plan to VDOT for review and approval”.

7. Sheets 22 – 24 – Maintenance of Traffic Notes/Plans

DELETE sheets in entirety and **INSERT** sheets 22 – 24 included in Appendix A of this addendum.

8. Sheet 32 of 33 – Pavement Restoration and Trench Detail, Notes

DELETE Note 1 in its entirety and **INSERT** the following:

“1. ACSA does not have authority to direct paving or surface treatment within public rights-of-way. That authority lies with VDOT. All streets with new waterline will receive either full-width mill and overlay or surface treatment by VDOT’s paving contractor as shown on the plans except Valley Street from W. Main south to Fleet St (which requires southbound lane mill and overlay) and Fleet Street – to be performed by ACSA’s contractor.

Town streets are scheduled to be paved or resurfaced by VDOT after July 4, 2027. If all waterline installations, inspection, testing and ACSA acceptance are complete prior to VDOT paving contractor mobilizing, the ACSA’s contractor is relieved of full-width mill/overlay or surface treatment installations. VDOT paving

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contractor will in that instance perform mill and overlay or surface treatment under separate VDOT contract. If a street with new waterline installed by ACSA contractor is NOT in VDOT's 2027 paving schedule, then project contractor is responsible for paving or surface treatment installation. This includes Valley Street (from W. Main south to Fleet St), which requires southbound lane mill and overlay and Fleet Street.

If VDOT paving contractor occupies Scottsville streets within this project's limits to perform mill and overlay or surface treatment prior to the required water main installation, the ACSA contractor must likely yield space to VDOT paving contractor, and then ACSA contractor would be required by contract, by the ACSA, and by VDOT, to repave newly paved streets to VDOT specifications at completion of waterline installation, inspection, testing and acceptance by the ACSA."

PROJECT MANUAL

1. Specification Section 00400 – Bid Form, Page 00400-3, Contract Item No. 5 – 8-Inch Gate Valve with Valve Box:

DELETE Estimated Quantity and Unit "18 EA" and **INSERT** "20 EA".

2. Specification Section 00810 – ACSA Special Conditions, Page 00810-1, Part 2, **INSERT** the following note at the end of Part 2:

"17. Contractor is required to prepare and submit all required MOT and detour plans in support of the above listed limitations to VDOT for review and approval for final Land Use Permit issuance."

3. Specification Section 00810 – ACSA Special Conditions, Page 00810-3, Part 5 – Contract Time and Liquidated Damages, last sentence in paragraph:

DELETE "\$250.00" and **INSERT** "\$500.00".

4. Specification Section 01106 – Construction Scheduling, Coordination and Sequencing, Page 01106-2, Paragraph 1.02.B, Note 7:

INSERT the following at the end of Note 7: "Use of steel plates will require an Engineer's design provided by the contractor for placement and proper anchoring based on traffic load and traffic counts".

5. Specification Section 01106 – Construction Scheduling, Coordination and Sequencing, Page 01106-3, Paragraph 1.02.B:

INSERT the following note at the end of Part 1.02.B:

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“17. Contractor is required to prepare and submit all required MOT and detour plans in support of the above listed limitations to VDOT for review and approval for final Land Use Permit issuance.”

6. Specification Section 01130 – Measurement and Payment, Page 01130-13, item 1.04.W, Contract Item 23: Base Stone Aggregate (21A or B), subparagraph 1:

In first sentence, after the word “aggregate”, **INSERT** “for pavement subgrade and following full trench backfill”.

QUESTIONS RECEIVED AFTER PRE-BID MEETING

1. QUESTION: Is a Geotechnical Report available for the project area?

ANSWER: No. Refer to Appendix A of the Project Manual.

2. QUESTION: Are there any minority, small, and/or local business goals affiliated with this contract?

ANSWER: No.

3. QUESTION: Are there prevailing wages for this project?

ANSWER: No.

4. QUESTION: Who will be responsible for road repairs required due to pre-existing conditions? For example, if the roadway is susceptible to potholes due to thin asphalt or unsuitable material, will the contractor be compensated for repairs not due to construction?

ANSWER: Temporary pavement repairs required due to the work performed or due the mobilization of equipment or materials by the contractor will be performed at no additional expense to the ACSA. Temporary pavement repairs required due to unsuitable materials may be reviewed on a case-by-case basis if proper documentation is provided by the contractor as a basis for the pavement repairs. Refer to the requirements in Section 01380 and Section 00700.

5. QUESTION: Which item is the 12" water main to be paid under?

ANSWER: Specification Section 01130 – Measurement and Payment, Page 01130-5, item 1.04.D, subparagraph 3, 4th line, after the word “fittings”, **INSERT** “and water main”.

6. QUESTION: Bid Item 2 shows 145 LF of 6-inch. The Advertisement and the pre-bid description both say roughly 350 LF. Twelve hydrant laterals use up the 145 LF by themselves. Which quantity is correct?

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ANSWER: The quantity on the bid form (Section 00400) should be used.

7. QUESTION: Item 23 is 690 CY of 21A. Sheet 31 Detail W-1 calls for open cuts in VDOT pavement to be backfilled entirely with 21A, which is a lot more than 690 CY. Please confirm that trench backfill stone is incidental to the pipe items and Item 23 is Engineer-directed stone only.

ANSWER: Refer to response to item 6 under **PROJECT MANUAL** above. Refer to Section 01130, item 1.04.A, 1.04.B, and 1.04.C.

8. QUESTION: Section 02223 requires pre- and post-construction surveys at every potentially affected property, and it's all incidental. Roughly how many properties does the Authority expect?

ANSWER: Refer to Paragraph 1.01, subparagraph A of Section 02223 for specification requirement applicability. The requirements of the specification are governed by local requirements and permits for approved rock blasting or other vibratory work, if required for rock removal. An estimated property total is 15 to 20, with the number of properties to receive pre-and post-surveys dependent on the limits of proposed vibratory work by the contractor.

9. QUESTION: Sections 01200 and 01300 are in the Table of Contents but not in the Project Manual, and 13300 references a Section 01315 that doesn't exist. Will these be issued in a future addendum?

ANSWER: See Appendix B in this addendum.

Specification Section 13300 – SCADA System, Page 13300-1, item 1.01., subparagraph A, 2nd line: **DELETE** “in accordance with Section 01315”.

Appendix A

MAINTENANCE OF TRAFFIC

GENERAL NOTES

- 1) UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND EXECUTE THE WORK IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLAN. THE "ENGINEER" IS THE ALBEMARLE COUNTY SERVICE AUTHORITY OR DESIGNATED REPRESENTATIVE.
- 2) TRAFFIC CONTROL DEVICES AND SAFETY MEASURES SHALL COMPLY WITH THE:
- a. 2025 USDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (11TH EDITION REVISION 1)
 - b. 2026 VIRGINIA WORK AREA PROTECTION MANUAL (WAPM) (VERSION 11.0)
 - c. 2026 VIRGINIA MUTCD (VERSION 11.0)
 - d. 2016 VDOT ROAD AND BRIDGE STANDARDS
 - e. 2020 VDOT ROAD AND BRIDGE SPECIFICATIONS
- 3) IT IS NOT THE INTENT OF THIS MAINTENANCE OF TRAFFIC PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED DURING CONSTRUCTION BUT ONLY TO INDICATE THE GENERAL HANDLING OF TRAFFIC. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN TO THE ENGINEER AND VDOT FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION FOR MAINTENANCE OF TRAFFIC PLANS OTHER THAN THE APPROVED MAINTENANCE OF TRAFFIC DOCUMENTS. ANY MAINTENANCE OF TRAFFIC PLANS SUBMITTED BY THE CONTRACTOR THAT DIFFER FROM THE APPROVED DOCUMENTS MUST BE SUBMITTED WITH THE SAME LEVEL OF DETAILS AS THE APPROVED MAINTENANCE OF TRAFFIC DOCUMENTS.
- 4) THE TRAFFIC CONTROL DETAILS DESIGNATED ON THIS SHEET ARE OFFERED TO PROVIDE THE CONTRACTOR WITH AN UNDERSTANDING OF THE MINIMUM REQUIREMENTS FOR TRAFFIC CONTROL WHICH MUST BE MET AND TO AID IN THE INCLUSION OF THOSE COSTS IN THE PREPARATION OF HIS BID. THE PLAN AND THE USE THEREOF DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES OF PROTECTION OF THE WORK AND PUBLIC SAFETY. IT IS A SPECIFIC CONTRACT REQUIREMENT THAT THE CONTRACTOR INDEMNIFY AND HOLD HARMLESS THE ALBEMARLE COUNTY SERVICE AUTHORITY AND ITS DESIGNATED REPRESENTATIVE AGAINST ALL LOSSES INCURRED IN THE EXECUTION OF THE WORK AND IN THE GUARDING OF IT. THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO THE USE OF THIS PLAN.
- 5) THE ALLOWABLE WORK HOURS ARE WEEKDAYS FROM 8:00 AM TO 5:00 PM UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER OR NOTED IN THE CONTRACT DOCUMENTS.
- 6) THE CLEAR ZONE SHALL BE MAINTAINED, FREE OF PARKED EQUIPMENT AND STORED MATERIALS OR OTHERWISE PROTECTED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL.
- 7) DAILY CONTROL OF TRAFFIC INCLUDING THE PLACEMENT, MAINTENANCE AND REMOVAL OF TRAFFIC CONTROL DEVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 8) ALL LANES OF TRAFFIC SHALL BE REOPENED AT THE CONCLUSION OF EACH WORKDAY.
- 9) ALL DRAINAGE STRUCTURES PIPES AND DITCHES AFFECTED BY CONSTRUCTION SHALL BE RESTORED AT THE CONCLUSION OF EACH WORKDAY.
- 10) PRIVATE ENTRANCES SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE ENGINEER, IN WHICH CASE, THE CONTRACTOR SHALL NOTIFY THE AFFECTED PROPERTY OWNER 72 HOURS PRIOR TO ANY MODIFICATION OF THEIR ENTRANCE.
- 11) SHOULD ENTRANCES NEED TO BE CLOSED, CONTRACTOR SHALL PROVIDE ALTERNATIVE ACCESS TO BE SUBMITTED AND APPROVED BY THE ENGINEER.
- 12) ON-STREET PARKING MAY BE RESTRICTED UP TO 200 FEET AT A TIME. CONTRACTOR SHALL COORDINATE THIS RESTRICTION WITH AFFECTED RESIDENCES AND BUSINESSES TO MAINTAIN ACCESS TO PROPERTIES AT ALL TIMES.
- 13) ALL CONSTRUCTION SIGNS THAT GOVERN TRAFFIC FLOW THROUGH THE WORK ZONE SHALL BE COVERED OR REMOVED AND STORED AWAY FROM TRAFFIC WHEN NOT IN USE. ALL EXISTING SIGNS THAT MAY CONFLICT WITH TEMPORARY CONSTRUCTION SIGNS SHALL BE COVERED WHEN NEEDED, THEN UNCOVERED WHEN RESUMING NORMAL TRAFFIC PATTERNS.
- 14) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL SIGNS AND TRAFFIC CONTROL DEVICES ARE PROPERLY MAINTAINED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ENSURING THE SIGNS ARE NOT IMPROPERLY MOVED OR REMOVED FROM THE CONSTRUCTION AREA WITHOUT AUTHORIZATION FROM THE ENGINEER.
- 15) SIGN SPACING AND LOCATION SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY VDOT OR ITS DESIGNATED REPRESENTATIVE.

- 16) THE CONTRACTOR SHALL INSTALL SUFFICIENT MEASURES TO ENSURE PUBLIC SAFETY WITHIN THE WORK AREA.
- 17) TRAFFIC INCLUDING BUT NOT NECESSARILY LIMITED TO FIRE, POLICE, AND OTHER PUBLIC SAFETY VEHICLES, MAIL DELIVERY, SCHOOL BUSES, TRASH AND RECYCLING COLLECTION, AND OTHER ESSENTIAL VEHICLES, MUST BE ABLE TO SAFELY TRAVERSE THE WORK AREA WITHIN OR ADJACENT TO PUBLIC AND PRIVATE RIGHT OF WAYS AT ALL TIMES DURING THE DAY AND NIGHT.
- 18) THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES (SIGNS, FLAG PERSONS, ETC.) NECESSARY TO ENSURE PROPER SAFETY AND VEHICULAR CONTROLS.
- 19) THE CONTRACTOR SHALL NAME ONE INDIVIDUAL WHO WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL.
- 20) NO OPEN TRENCHES WILL BE ALLOWED OVERNIGHT.
- 21) THE CONTRACTOR SHALL ABIDE BY THE HOLIDAY AND WORKDAY SCHEDULE SPECIFIED IN THE CONTRACT DOCUMENTS
- 22) CHANNELIZING DEVICES MUST SEPARATE THE WORK AREA FROM THE TRAVELED WAY AND BE EXTENDED TO WHERE THEY ARE VISIBLE TO ONCOMING TRAFFIC.
- 23) THE CONTRACTOR SHALL ABIDE BY THE REQUIREMENTS ESTABLISHED IN ANY PERMITS ISSUED BY VDOT.
- 24) IN ALL CASES IN WHICH EXISTING OR ESTABLISHED TRAFFIC PATTERNS WILL BE DISRUPTED, THE CONTRACTOR WILL NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES AT LEAST 24 HOURS IN ADVANCE OF THE ANTICIPATED DISRUPTION BY DISTRIBUTING DOOR TO DOOR NOTICES. THE CONTRACTOR SHALL FORWARD A COPY OF THE NOTICE TO THE ALBEMARLE COUNTY SERVICE AUTHORITY AND VDOT PROJECT REPRESENTATIVES PRIOR TO BEGINNING WORK.
- 25) THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY PAVEMENT MARKINGS OR TRAFFIC CONTROL DEVICES DAMAGED BY CONSTRUCTION ACTIVITIES.
- 26) THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE INCLUDING TRAFFIC SIGNAL EQUIPMENT, LOOP DETECTORS AND INTERCONNECT CABLE, PAVEMENT MARKING AND SIGNAGE RESULTING FROM THE CONTRACTOR'S EQUIPMENT OR ACTIONS.
- 27) ALL CONTRACTOR EMPLOYEES AND SUBCONTRACTOR(S) EMPLOYEES EXPOSED TO VEHICULAR TRAFFIC WILL BE REQUIRED TO WEAR WARNING VESTS MARKED WITH OR MADE OF REFLECTORIZED OR HIGH VISIBILITY MATERIALS AS DESCRIBED IN THE VIRGINIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS (CONSTRUCTION INDUSTRIAL) 29 CFR, PART 1929, 1989 EDITION. ALL FLAGGERS MUST BE CERTIFIED AND USE A STOP/SLOW PADDLE WHEN FLAGGING TRAFFIC.
- 28) ALL TEMPORARY CONSTRUCTION WARNING SIGNS FURNISHED IN CONJUNCTION WITH THE MAINTENANCE AND PROTECTION OF TRAFFIC THROUGH AREAS OF CONSTRUCTION AND DETOURS WILL HAVE FLUORESCENT ORANGE PRISMATIC LENS TYPE RETROREFLECTIVE SHEETING. ALL OTHER SIGNS WILL BE VIP PRISMATIC LENS TYPE RETROREFLECTIVE SHEETING.
- 29) THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION WARNING SIGNS (ROAD/UTILITY WORK AHEAD AND END ROAD/UTILITY WORK) ON WOODEN POSTS OR TRIPODS PRIOR TO BEGINNING CONSTRUCTION AND WILL REMOVE SUCH SIGNS AS POST AFTER COMPLETION OF ALL CONSTRUCTION ACTIVITIES.
- 30) THE CONTRACTOR SHALL NOTIFY THE ENGINEER 3 DAYS IN ADVANCE OF ANY NECESSARY ROAD CLOSURES. THE CONTRACTOR SHALL SUBMIT A DETAILED DETOUR PLAN TO VDOT FOR APPROVAL PRIOR TO THE IMPLEMENTATION.
- 31) NO DETOURS OF VALLEY STREET (ROUTE 20) SHALL BE ALLOWED. THE CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES DURING CONSTRUCTION ALONG THIS ROADWAY. THE MINIMUM LANE WIDTH SHALL BE 11 FEET. THE CONTRACTOR SHALL UTILIZE FLAGGING OPERATIONS AS NECESSARY FOR WORK CROSSING THESE ROADWAYS.
- 32) PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES. ALL EXISTING PEDESTRIAN FACILITIES IMPACTED BY CONSTRUCTION MUST BE PROPERLY CLOSED AND DETOURED DURING CONSTRUCTION IN ACCORDANCE WITH TTC-35.0.
- 33) IF ESTABLISHING AN ALTERNATE PEDESTRIAN ROUTE IS NOT FEASIBLE, THE CONTRACTOR SHALL ESTABLISH A DESIGNATED REPRESENTATIVE TO ASSIST PEDESTRIANS THORUGH THE WORK ZONE IN ACCORDANCE WITH THE VA WAPM SECTION 6C.02.

- 34) STEEL PLATING WILL BE REQUIRED FOR OPEN CUT INSTALLATIONS ACROSS VALLEY ROAD AND AS ALLOWED IN THE FINAL, APPROVED LAND USE PERMIT ISSUED BY VDOT. FORMAL MOT PLANS TO BE SUBMITTED TO VDOT BY THE CONTRACTOR SHALL INCLUDE INTENDED LOCATIONS FOR STEEL PLATING. STEEL PLATING FOR OPEN EXCAVATIONS WILL NOT BE ALLOWED FROM NOVEMBER 1 TO APRIL 2. USE OF STEEL PLATES WILL REQUIRE AN ENGINEERED DESIGN FOR PLACEMENT AND ANCHORING BASED ON TRAFFIC LOADS AND TRAFFIC COUNTS.
- 35) OPEN CUT INSTALLATIONS ACROSS VALLEY ROAD, UNDER EXISTING BOX CULVERT, AND WORK AT WARREN ST/VALLEY ST INTERSECTION SHOULD BE PERFORMED PRIOR TO NOVEMBER 1, 2026 AND DURING NIGHT-TIME HOURS. WARREN STREET TO BE CLOSED FOR THIS WORK AS NEEDED. CONTRACTOR TO PROVIDE DETOUR PLAN FOR WARREN STREET CLOSURE TO VDOT AND THE ENGINEER FOR REVIEW AND APPROVAL. CONTRACTOR TO PROVIDE ACCESS TO RESIDENTS ALONG WARREN STREET DURING THE ROAD CLOSURE. ESTABLISH NIGHT-TIME WORK HOURS WITH THE ALBEMARLE COUNTY SERVICE AUTHORITY AND VDOT IN ACCORDANCE WITH THE APPROVED LAND USE PERMIT.
- 36) STREET CLOSURE OPTIONS AS OUTLINED ON THE CONTRACT DRAWINGS SHALL BE COORDINATED AND PART OF THE TRAFFIC CONTROL PLAN PREPARED BY THE CONTRACTOR AND SUBMITTED TO VDOT FOR APPROVAL PRIOR TO ISSUANCE OF THE FINAL LAND USE PERMIT.

SEQUENCE OF CONSTRUCTION

NOTES:

- 1) PERFORM ALL WATER, SEWER, DRAINAGE, AND MILL AND OVERLAY WORK ON VALLEY STREET, WARREN STREET, HARDWARE STREET, MOORES HILL, W. MAIN STREET, FLEET STREET, PAGE STREET, AND BIRD STREET. THE FOLLOWING TTCs WILL BE UTILIZED DURING THE WORK:
- TTC - 5.0 "SHOULDER WORK WITH MINOR ENCROACHMENT (40 MPH OR LESS)"
 - TTC - 23.0 "LANE CLOSURE ON A TWO-LANE ROAD USING FLAGGERS"
 - TTC - 28.0 "LANE CLOSURE IN AN INTERSECTION"
 - TTC - 34.0 "STREET CLOSURE WITH A DETOUR"

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NO.	DATE	BY	REVISIONS



SCALE:	
HORIZ:	N/A
VERT:	N/A
DATE:	JUNE 2026
DESIGNED:	E.E.B.
DRAWN:	E.E.B.
CHECKED:	C.E.L.
PROJECT NO.:	46480-025

ALBEMARLE COUNTY SERVICE AUTHORITY
168 SPOTNAP ROAD CHARLOTTESVILLE, VIRGINIA 22911
SCOTTSVILLE PHASE 4A - WATER MAIN REPLACEMENT
MAINTENANCE OF TRAFFIC NOTES/PLANS

SHEET
22
OF
33

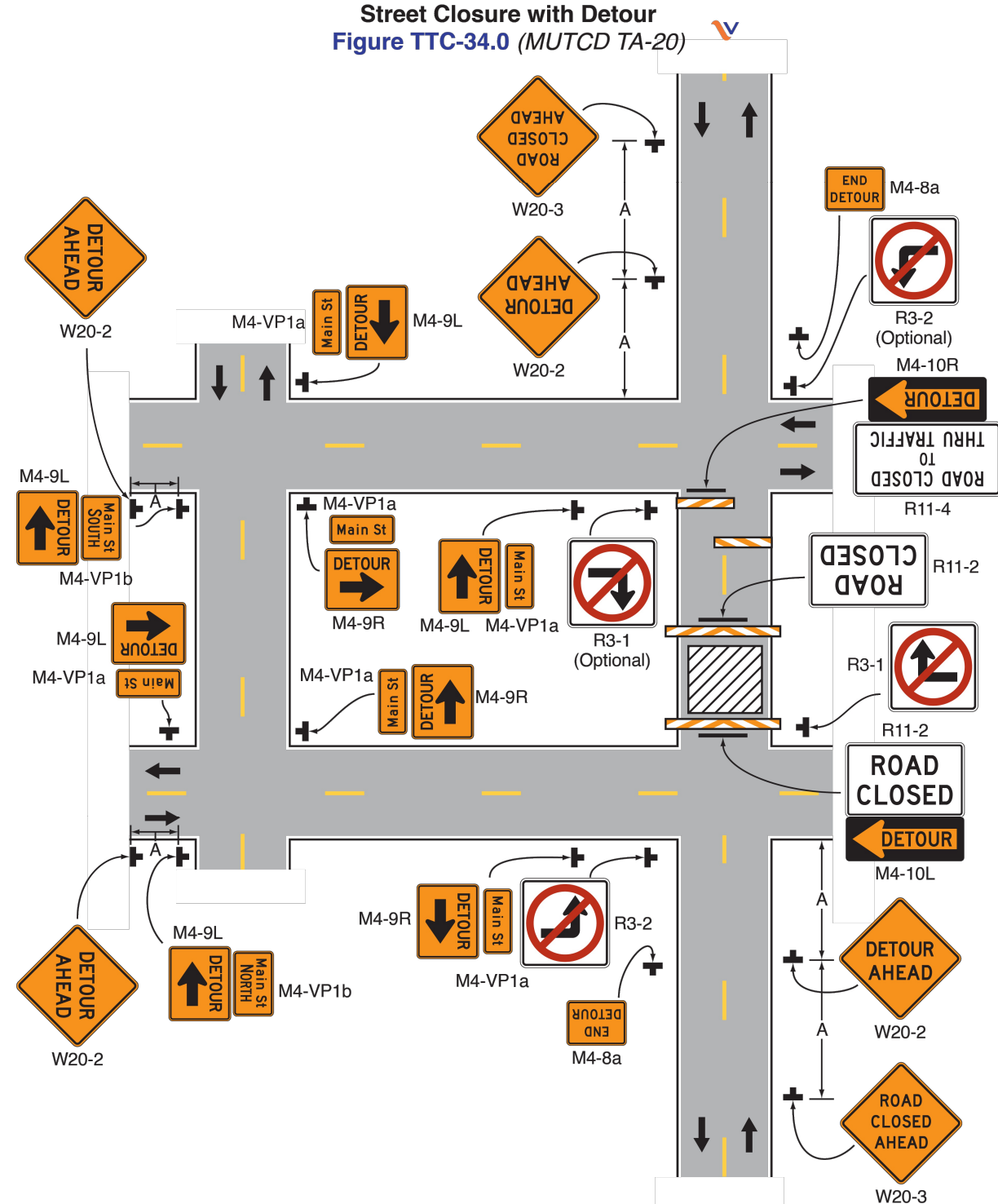
1. This **TTTC figure** should be used for streets without posted route numbers.
2. On multi-lane streets, Detour signs with an Advance Turn Arrow should be used in advance of a turn.
 - 2a. If the road is opened for a significant distance beyond the intersection and there are significant origin/destination points beyond the intersection, the ROAD CLOSED (R11-2) and Detour Arrow (M4-10) signs for Type 3 barricades should be located at the corners of the intersecting closed roadway or the traveled way.
 - 2b. In urban areas, signs on an eight-foot Type 3 barricade should not cover more than half of the top two rails. On a four-foot Type 3 barricade, the ROAD CLOSED (R11-2) sign or the ROAD CLOSED TO THRU TRAFFIC (R11-4) sign should be installed above the Type 3 barricade.

3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
4. Flashing warning lights may be used on Type 3 Barricades.
5. Detour signs may be located on the far side of intersections. A Detour sign with an advance arrow may be used in advance of a turn.
6. A Street Name (M4-VP1a) plaque may be mounted with the Detour sign. The Street Name plaque may be either white on green or black on orange.

7. When used, the Street Name **plaque** shall be placed above the Detour sign.

8. [Paragraph Deleted]
9. See Chapter 6O for additional information on incident management traffic control.

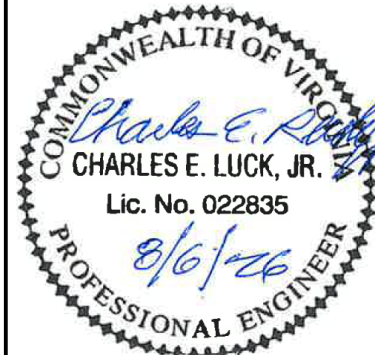
- Option:
10. This TTC Figure may be used for detouring Secondaries where local residents typically refer to the road by its street name rather than its Secondary route number.



Note: See Table 6P-2 for the meanings of the symbols used in this figure.
See Table 6P-V3 for sign spacing requirements ("A").
See Tables 6P-V5 through 6P-V7 for taper length requirements.
See Table 6P-V8 for channelizing device spacing requirements.

[illegible]

Whitman, Requardt & Associates, LLP
9030 Stony Point Parkway, Suite 220, Richmond, Virginia 23235



SCALE: _____
HORIZ: N/A
VERT.: N/A
DATE: JUNE 2026
DESIGNED: E.E.B.
DRAWN: E.E.B.
CHECKED: C.E.L.
PROJECT NO.: 46480-025

ALBEMARLE COUNTY SERVICE AUTHORITY
168 SPOTNAP ROAD CHARLOTTESVILLE, VIRGINIA 22911
SCOTTSVILLE PHASE 4A - WATER MAIN REPLACEMENT
MAINTENANCE OF TRAFFIC NOTES/PLANS

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Appendix B

SECTION 01200

PROJECT MEETINGS

PART 1 - GENERAL

1.01 SCOPE OF WORK

- A. The Engineer and Owner will schedule and administer a preconstruction meeting, periodic progress meetings, and specially called meetings throughout the progress of the work.
 - 1. Prepare agenda for meetings
 - 2. Make physical arrangements for meetings
 - 3. Preside at meetings
- B. Representatives of the Contractor, subcontractors and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents.
- C. The Contractor shall attend meetings to ascertain that work is expedited consistent with Contract Documents and construction schedules.

1.02 PRECONSTRUCTION MEETING

- A. A preconstruction meeting will be scheduled before the Contractor starts Work.
- B. Location: At the Owners offices or place designated by the Owner.
- C. Attendance:
 - 1. Owner's representative
 - 2. Contractor's project manager and superintendent
 - 3. Major subcontractors
 - 4. Utilities representative
 - 5. Others as appropriate
- D. Suggested Agenda:
 - 1. Distribution and discussion of:
 - a. List of major subcontractors and suppliers
 - b. Projected construction schedules

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2. Critical work sequencing.
 3. Major equipment deliveries and priorities.
 4. Project coordination:
 - a. Designation and responsible personnel
 5. Procedures and processing of:
 - a. Field decisions
 - b. Proposal requests
 - c. Submittals
 - d. Change Orders
 - e. Applications for payment
 6. Adequacy of distribution of Contract Documents.
 7. Procedures for maintaining Record Documents.
 8. Use of premises:
 - a. Office, work and storage areas.
 - b. Owner's requirements.
 9. Construction facilities, controls and construction aids.
 10. Temporary utilities.
 11. Housekeeping procedures.
 12. Check of required Bond and Insurance certifications.
 13. Liquidated damages.
 14. Check of required Permits.
 15. Laboratory testing of material requirements.
 16. Inventory of material stored on site.
 17. Wage determination compliance and records, work hours.
 18. MBE/WBE fair share objective, affirmative action, nondiscrimination policies, if appropriate.

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19. Communication lines and contact persons, including address and telephone number.
 20. Manufacturers' operation and maintenance manuals, and operation and maintenance training.
 21. Regulatory agency inspections.
 22. Progress agency inspections.
 23. Job site safety.

1.03 PROGRESS MEETINGS

- A. Regular periodic meetings will be held as deemed necessary by the Engineer and Owner or Owner's Inspector.
- B. Additional meetings will be scheduled as required by progress of the work.
- C. Location of the meetings: A site designated by the Owner.
- D. Attendance:
 1. Engineer and his professional consultants as needed.
 2. Contractor and his Subcontractors (as appropriate to the agenda).
 3. Owner's representative.
 4. Others as appropriate.
- E. Suggested Agenda:
 1. Review and approval of minutes of previous meeting.
 2. Review of work progress since previous meeting.
 3. Field observations, problems, conflicts.
 4. Problems which impede Construction Schedule.
 5. Review of off-site fabrication, delivery schedules.
 6. Corrective measures and procedures to regain projected schedule.
 7. Revisions to Construction Schedule.
 8. Progress schedule during succeeding work period.

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9. Coordination of schedules.
 10. Review submittal schedules; expedite as required.
 11. Maintenance of quality standards.
 12. Pending changes and substitutions.
 13. Review proposed changes for:
 - a. Effect on Construction Schedule and on completion date.
 - b. Effect on other contracts of the Project.
- F. The Contractor is to attend progress meetings and is to study previous meeting minutes and current agenda items, in order to be prepared to discuss pertinent topics such as deliveries of materials and equipment, progress of the work, etc.
- G. The Contractor is to provide a current shop drawing submittal log at each progress meeting in accordance with Section 01300.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01300

SUBMITTALS

PART 1 - GENERAL

1.01 GENERAL

- A. The Contractor shall submit to the Engineer for review and approval such shop drawings, test reports and product data on materials and equipment (hereinafter in this section called data), and material samples (hereinafter in this section called samples) as are required for the proper control of work, including but not limited to those shop drawings product data and samples for materials and equipment specified elsewhere in the Specifications and in the Contract Drawings.
- B. Within thirty (30) days after the effective date of the Contract, the Contractor shall submit to the Engineer a complete list of preliminary data on items for which Shop Drawings are to be submitted. Included in this list shall be the names of all proposed manufacturers furnishing specified items. Review of this list by the Engineer shall in no way, expressed or implied, relieve the Contractor from submitting complete Shop Drawings and providing materials, equipment, etc., fully in accordance with the Specifications. The procedure is required in order to expedite final review of Shop Drawings.
- C. The Contractor is to maintain an accurate updated submittal log and will bring this log to each scheduled progress meeting with the Owner and the Engineer. This log should include the following items:
 - 1. Submittal-Description and Number assigned.
 - 2. Date to Engineer.
 - 3. Date returned to Contractor (from Engineer).
 - 4. Status of Submittal (Approved, Approved as Noted, Revise and Return, Rejected).
 - 5. Date of Resubmittal and Return (as applicable).
 - 6. Date material release (for fabrication).
 - 7. Projected date of fabrication.
 - 8. Projected date of delivery to site.
 - 9. Status of O&M manuals submittal.
 - 10. Specification Section.
 - 11. Drawings Sheet Number.

1.02 TYPES OF SUBMITTALS

- A. Shop drawings for manufactured or fabricated items, schedules, diagrams and like material prepared specially for this project.
- B. Product Data which include pre-printed material, manufacturer's descriptive literature, illustrations, catalog data, performance charts and the like intended to identify a part of the work but not necessarily prepared exclusively for this Contract.

- C. Samples which include physical examples of products, materials, assemblies or workmanship which are identical to a portion of the work and which establish standards for materials, workmanship, or appearance of the finished work.
- D. Administrative data to include information required to support the administrative requirements of the contract as called for in the specifications.

1.03 PROCEDURE FOR SUBMITTALS

- A. Except where specifically stated otherwise all submittals shall be made to the Engineer for his approval. Submittals of all but administrative data shall be made in at least six (6) copies. Two (2) copies of the submittal will be retained by the Engineer - one (1) for the office and one (1) for the field. One (1) copy will be provided to the Owner. The remaining copies will be returned to the Contractor. Submittals shall be complete for each component of work or system and shall include all inter-related portions of a system. At the completion of the project, the Contractor shall furnish the Engineer one revised record copy as described in Paragraph 1.06.
- B. Administrative data shall be submitted in triplicate (3 copies).

1.04 CONTRACTOR'S RESPONSIBILITY

- A. It is the duty of the Contractor to check all drawings, data and samples prepared by or for him before submitting them to the Engineer for review. Each and every copy of the Drawings and data shall bear a Contractor's stamp showing that they have been checked. Shop drawings submitted to the Engineer without the Contractor's stamp will be returned to the Contractor for conformance with this requirement. Shop drawings shall indicate any deviations in the submittal from requirements of the Contract Documents.
- B. Engineer's Contract Drawings shall not be reproduced for the purpose of making shop drawings.
- C. Determine and verify:
 - 1. Field measurements.
 - 2. Field construction criteria.
 - 3. Catalog numbers and similar data.
 - 4. Conformance with Specifications.
- D. The Contractor shall furnish the Engineer a schedule of Shop Drawings submittals fixing the respective dates for the submission of shop drawings, the beginning of manufacture, testing and installation of materials, supplies and equipment. This schedule shall indicate those submittals that are critical to the progress schedule.
- E. The Contractor shall ensure that no work is begun on any item of work requiring an approved submittal until such approval is obtained.

- F. The Contractor shall not begin any work covered by a drawing, data, or a sample returned marked "REVISE AND RETURN" OR "REJECTED" until a revision or correction thereof has been reviewed and returned to him, by the Engineer, with approval.
- G. One approved copy of all submittals shall be held by the Contractor at the construction site.
- H. Each submittal shall be assigned a sequential number by the Contractor, for purposes of easy identification, and shall retain its assigned number with appropriate subscript, on required resubmissions. The assigned number shall consist of the Contract Number, followed by the specification section number where the item is specified, followed by a sequential number indicating the number of submittals in that Section (e.g., WR/CC-1-03300-11 is the 11th separate submittal for items specified in Section 03300). Resubmittals shall be identified with the same number as the original submittal, followed by the subscript R1, R2, etc. All products and materials submitted shall be clearly identified with the appropriate equipment name and number as it appears in the Contract Document.
- I. The Contractor shall submit to the Engineer all drawings and schedules sufficiently in advance of construction requirements to provide no less than 30 calendar days for reviewing and appropriate action from the time the Engineer receives them.
- J. All submittals shall be accompanied with a transmittal letter prepared in duplicate containing the following information:
 - 1. Date.
 - 2. Project Title and Number.
 - 3. Contractor's name and address.
 - 4. The Number of each Shop Drawing, Project Data, and Sample submitted.
 - 5. Notification of Deviations from Contract Documents.
 - 6. Submittal Log Number conforming to Specification Section Numbers.
- K. The Contractor shall submit six (6) copies of shop drawing submittals to the Engineer, three of which will be returned to the Contractor.
- L. The Contractor shall be responsible for and bear all costs of damages which may result from the ordering of any material or from proceeding with any part of work prior to the completion of the review by Engineer of the necessary Shop Drawings.
- M. The Contractor shall be fully responsible for observing the need for and making any changes in the arrangement of piping, connections, wiring, manner of installation, etc., which may be required by the materials/equipment he proposed to supply both as pertains to his work and any work affected under other parts, heading, or divisions of drawings and specifications at no cost to the Owner.

1.05 ENGINEER'S REVIEW OF SHOP DRAWINGS

- A. The Engineer's review of drawings, data and samples submitted by the Contractor will be only for conformance with the design concept of the Project and for general compliance with the information given in the Contract Documents. The Engineer's review and approval will not constitute an approval of dimensions, quantities, and details of the material, equipment, device, or item shown.
- B. The review of drawings and schedules will be general, and shall not be construed:
 - 1. as permitting any departure from the Contract requirements;
 - 2. as relieving the Contractor of responsibility for any errors, including details, dimensions, and materials;
 - 3. as approving departures from details furnished by the Engineer, except as otherwise provided herein.
 - 4. as approving Contractor's means, methods, techniques, sequences or procedures of construction or to safety precautions or programs incident thereto.
- C. If the drawings or schedules as submitted describe variations and show departure from the Contract requirements which the Engineer finds to be in the interest of the Owner and to be so minor as not to involve a change in Contract Price or time for performance, the Engineer may return the reviewed drawings without noting and exception.
- D. When reviewed by the Engineer, each of the Shop Drawings will be identified as having received such review being so stamped and dated. Shop Drawings stamped "REVISE AND RESUBMIT" and with required corrections shown will be returned to the Contractor for correction and resubmittal.
- E. Resubmittals will be handled in the same manner as first submittals. On resubmittals the Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, to revisions other than the corrections requested by the Engineer on previous submissions. The Contractor shall make any corrections required by the Engineer.
- F. If the Contractor considers any correction indicated on the drawings to constitute a change to the Contract Drawings or Specifications, the Contractor shall give written notice thereof to the Engineer.
- G. Shop drawings and submittal data shall be reviewed by the Engineer for each original submittal and first resubmittal; thereafter review time for subsequent resubmittals will be charged to the Contractor at the rate of \$125 per hour.
- H. When the Shop Drawings have been completed to the satisfaction of the Engineer, the Contractor shall carry out the construction in accordance therewith and shall make no further changes therein except upon written instructions from the Engineer.

- I. No partial submittals will be reviewed. Incomplete submittals will be returned to the Contractor for resubmittal. Unless otherwise specifically permitted by the Engineer, make all submittals in groups containing all associated items for:
 1. Water Main
 2. Valves, Hydrants, and Appurtenances
 3. PVC Sanitary Sewer
 4. Manholes
 5. Erosion and Sediment Control Measures
 6. Pavement and Driveway Replacement
 7. Seeding and Restoration

1.06 SHOP DRAWINGS

- A. When used in the Contract Documents, the term "Shop Drawings" shall be all drawings, diagrams, illustrations, schedules and other data which are specifically prepared by or for Contractor to illustrate some portion of the Work and all illustrations, brochures, standard schedules, performance charts, instructions, diagrams, and other information prepared by a Supplier and submitted by Contractor to illustrate material or equipment for some portion of the Work.
- B. Manufacturer's catalog sheets, brochures, diagrams, illustrations and other standard descriptive data shall be CLEARLY MARKED TO IDENTIFY THOSE MATERIALS, PRODUCTS OR MODELS THAT ARE PERTINENT TO THE WORK. Delete information which is not applicable to the Work by striking through or cross-hatching.
- C. Drawings and schedules shall be checked and coordinated with the work of all trades involved, before they are submitted for review by the Engineer and shall bear the Contractor's stamp of approval as evidence of such checking and coordination. Drawings or schedules submitted without this stamp of approval shall be returned to the Contractor for resubmission.
- D. Each Shop Drawing shall have a blank area 3-1/2 inches by 3-1/2 inches, located adjacent to the title block. The title block shall display the following:
 1. Project Title and Number
 2. Name of project building or structure
 3. Number and title of the shop drawing
 4. Date of shop drawing or revision
 5. Name of contractor and subcontractor submitting drawing
 6. Supplier/manufacturer.
 7. Separate detailer when pertinent
 8. Specification title and number
 9. Specification section
 10. Application Contract Drawing Number

- E. If drawings show variations from Contract requirements because of standard shop practice or for other reasons, the CONTRACTOR SHALL DESCRIBE SUCH VARIATIONS IN HIS LETTER OF TRANSMITTAL. The transmittal letter shall delineate compliance and exceptions taken to Specifications and Contract Drawings. If acceptable, proper adjustment in the Contract shall be implemented where appropriate. If the Contractor fails to describe such variations, he shall not be relieved of the responsibility for executing the work in accordance with the Contract, even though such drawings have been reviewed.
- F. Data on materials and equipment include, without limitation, materials and equipment lists, catalog data sheets, cuts, performance curves, diagrams, materials of construction and similar descriptive material. Materials and equipment lists shall give, for each item thereon, the name and location of the supplier or manufacturer, trade name, catalog reference, size, finish and all other pertinent data.
- G. For all mechanical and electrical equipment furnished, the Contractor shall provide a list including the equipment name, and address and telephone number of the manufacturer's representative and service company so that service and/or spare parts can be readily obtained.
- H. All manufacturers or equipment suppliers who propose to furnish equipment or products shall submit an installation list to the Engineer along with the required shop drawings. The installation list shall include at least five installations where identical equipment has been installed and has been in operation for a period of at least one (1) year.
- I. Only the Engineer will utilize the color "red" in marking Shop Drawing submittals.
- J. Before the final payment is made, the Contractor shall furnish to Engineer one (1) set of record shop drawings all clearly revised, complete and up to date showing the permanent construction as actually made for all reinforcing and structural steel, miscellaneous metals, process and mechanical equipment, yard piping, electrical system and instrumentation system.

1.07 SAMPLES

- A. The Contractor shall furnish, for the approval of the Engineer, samples required by the Contract Documents or requested by the Engineer. Samples shall be delivered to the Engineer as specified or directed. The Contractor shall prepay all shipping charges on samples. Materials or equipment for which samples are required shall not be used in work until approved by the Engineer.
- B. Samples shall be sufficient size and quantity to clearly illustrate:
 - 1. Functional characteristics of the product, with integrally related parts and attachment devices.

2. Full range of color, texture and pattern.
 3. A minimum of three samples of each item shall be submitted.
- C. Each sample shall have a label indicating:
1. Name of project
 2. Name of Contractor and Subcontractor
 3. Material or Equipment Represented
 4. Place of Origin
 5. Name of Producer and Brand (if any)
 6. Location of Project
- (Samples of finished materials shall have additional marking that will identify them under the finished schedules).
- D. The Contractor shall prepare a transmittal letter in triplicate for each shipment of samples containing the information required in subparagraph 1.04J above. He shall enclose a copy of this letter with the shipment and send a copy of this letter to the Engineer. Approval of a sample shall be only for the characteristics or use named in such approval and shall not be constructed to change or modify any Contract requirements.

1.08 MANUFACTURER'S LIST

- A. Within 30 days after receipt of a Notice to Proceed, and before ordering any equipment or materials, the Contractor shall submit to the Engineer for approval a complete list of proposed manufacturers and fabricators for all materials and equipment to be used in this Contract. The purpose of this submittal is to allow the Engineer to predetermine the acceptability of proposed suppliers before issuance of purchase orders by the Contractor. Submission and acceptance of the manufacturers' list shall neither relieve the Contractor from submitting detailed shop drawings and product data for all materials and equipment nor shall it constitute prior acceptance of any specific item of equipment prior to submittal of shop drawings. After submission and acceptance of the manufacturers' list, the Contractor shall not deviate from the named suppliers and manufacturers without written approval from the Engineer.

1.09 OPERATING AND MAINTENANCE INSTRUCTIONAL PERIODS

- A. Particular sections of these Specifications require that the Contractor furnish qualified personnel to instruct the Owner's personnel in the proper operation and maintenance of equipment and systems provided in this Contract. Such instructional periods shall be for the duration of time specified and in accordance with the requirements of the individual sections of the Specifications and with the following paragraphs.

1.10 OPERATION AND MAINTENANCE MANUALS FOR EQUIPMENT

AND PRODUCTS (if requested by Owner)

A. General:

1. The Contractor shall furnish Operation and Maintenance Manuals for all products and equipment provided under this Contract.
2. Prior to completion of the work, and at least 30 days prior to the 50 percent payment, the Contractor shall furnish for the Engineer's review three (3) Operation and Maintenance Manual draft copies.
3. Prior to completion of the work, and at least 60 days prior to the 85 percent payment, the Contractor shall furnish for the Engineer's review three copies of the final Operation and Maintenance Manual. The final manual must be approved by the Engineer before a final inspection of the work will be conducted and prior to the issuance of the Certificate of Substantial Completion.

B. Manual Preparation:

1. Manuals shall include operation and maintenance information on all systems and items of equipment. The data shall consist of: catalogs, brochures, bulletins, charts, schedules, approved Shop Drawings corrected to as-built conditions and assembly drawings and wiring diagrams describing location, operation, maintenance, lubrication, operating weight, lubrication charts and schedules showing manufacturers recommended lubricants for each rotating or reciprocating unit, and other information necessary for the Owner to establish an effective operating maintenance program. The following data shall also be included:
 - a. Title page giving name and location of facility, Contract Drawings No(s) where shown and Specification Section where described.
 - b. Approved Shop Drawings of each piece of equipment.
 - c. Manufacturer's cuts and dimension drawings of each piece of equipment, and details of all replacement parts.
 - d. Manufacturer's erection, operation and lubrication instructions for all equipment and apparatus, and complete listing of nameplate data.
 - e. Complete wiring diagrams of all individual pieces of equipment and systems including one line diagrams, schematic or elementary diagrams, and interconnection and terminal board identification diagrams.
 - f. Complete piping and interconnecting drawings.

- g. Complete parts list with parts assembly drawing (preferably by exploded view), names and addresses of spare parts suppliers, recommended list of spare parts to be kept "in stock" and sample order forms for ordering spare parts. Lead time required for ordering parts shall be estimated.
 - h. Instructions with easily understood schematics or diagrams for disassembling and assembling the equipment for overhaul or repair.
- 2. All items listed above that are of a sheet size of 8-1/2 inches by 11 inches or can be folded (no more than twice) to this size shall be bound in 4-inch maximum loose-leaf three-ring d-post type binders with black plastic-coated covers. The contents shall be fully indexed. Binders shall be Vernon Line Royal No. R-6372 or R-372, Sparco Brand Slanted Ring Presentation Binder 68140, Universal D-Ring View Binder 20747, K & M Division VS11-40 or equal. PAGES SHALL BE LINEN REINFORCED ON BINDING EDGE.
- 3. Shop Drawings 24 inches by 36 inches in size shall be folded to approximately 12 inches by 9 inches with drawing title box exposed along either edge. Shop Drawings descriptive of a single item of equipment shall be grouped together. All Shop Drawings shall be placed in accordion-type folders similar to File Pocket No. 74CG (9-1/2 inches x 14-3/4 inches) as manufactured by the Cooke and Cobb Company, or equal, and fully indexed on the outside of the folders in a neat and uniform manner.
- 4. All Shop Drawings included in the binders and/or folders shall be those copies previously submitted for review and approval and shall bear the Engineer's stamp of approval and comments as originally noted thereon.

C. Approval:

- 1. Subsequent to the Engineer's approval and return of the final manual, the Contractor shall submit four complete sets of manuals to the Engineer.
- 2. Substantial Completion certification will positively not be undertaken until approved Operation and Maintenance Manuals have been submitted. Partial approvals of the final manual will not be made.
- 3. Delivery of manufacturer's service (O&M) manuals and installation instructions satisfactory to the Engineer are an essential part of the equipment delivery. Incomplete or inadequate manuals will be returned to the Contractor for correction and/or resubmission.

1.11 MANUFACTURER'S REPRESENTATIVE

- A. The definition of "manufacturer's representative" shall be as follows: a representative from the manufacturer's plant, familiar with the actual problems of manufacturing, installing and operating the particular equipment or product and with enough years of experience in this field to determine the successful operation of the equipment or product. Sales representatives or agents of the manufacturers will not be acceptable.
- B. As related to his obtaining the manufacturer's certificates, the Contractor shall include in this contract price the cost of furnishing competent and experienced manufacturer's representatives who shall represent the manufacturer on equipment and products furnished and installed under this Contract, to assist the Contractor to install, adjust, start up, and test the equipment and products in conformity with the Contract Documents. After the equipment and products have been operated through the trial period for each phase of construction and before being put into permanent service the Engineer, such manufacturer's representatives shall make all adjustments and tests required to provide that such equipment and products are in proper and satisfactory.

1.12 ENGINEER'S RESPONSIBILITY

- A. The Engineer will review, with reasonable promptness, all submittals with respect to the Contract Documents and will indicate a qualified "Approval", an "Approval As Noted", a "Revise and Return" or "Rejected" notation. The Engineer will return all submittals found incomplete without a review.

1.13 MIX DESIGNS

- A. Mix designs shall be submitted for concrete, grout, and bituminous paving. Mix design shall indicate all materials used in the product and their respective relative quantities. In any one mix design all quantities shall be expressed either by weight or volume insofar as it is practical to do so. The Contractor's attention is directed to the Owner's portion of these Specifications for proportioning and testing requirements of concrete.

1.14 DESIGN CALCULATIONS

- A. Design calculations shall be presented in a neat, legible manner and shall bear the stamp and signature of a Registered Professional Engineer, registered in the Commonwealth of Virginia.

1.15 RECORD DRAWINGS

- A. The Contractor will keep one copy of all Specifications, Drawings, Addenda, Change Orders and Shop Drawings in the field office at the site, in good order and annotated to show all changes made during the construction process. These shall be available to the Engineer and shall be delivered to him upon completion of the project. If the Contractor fails to maintain the record drawings as required herein, final payment

with respect to the Contract as a whole, will be withheld until proper record drawings have been furnished to the Engineer.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION