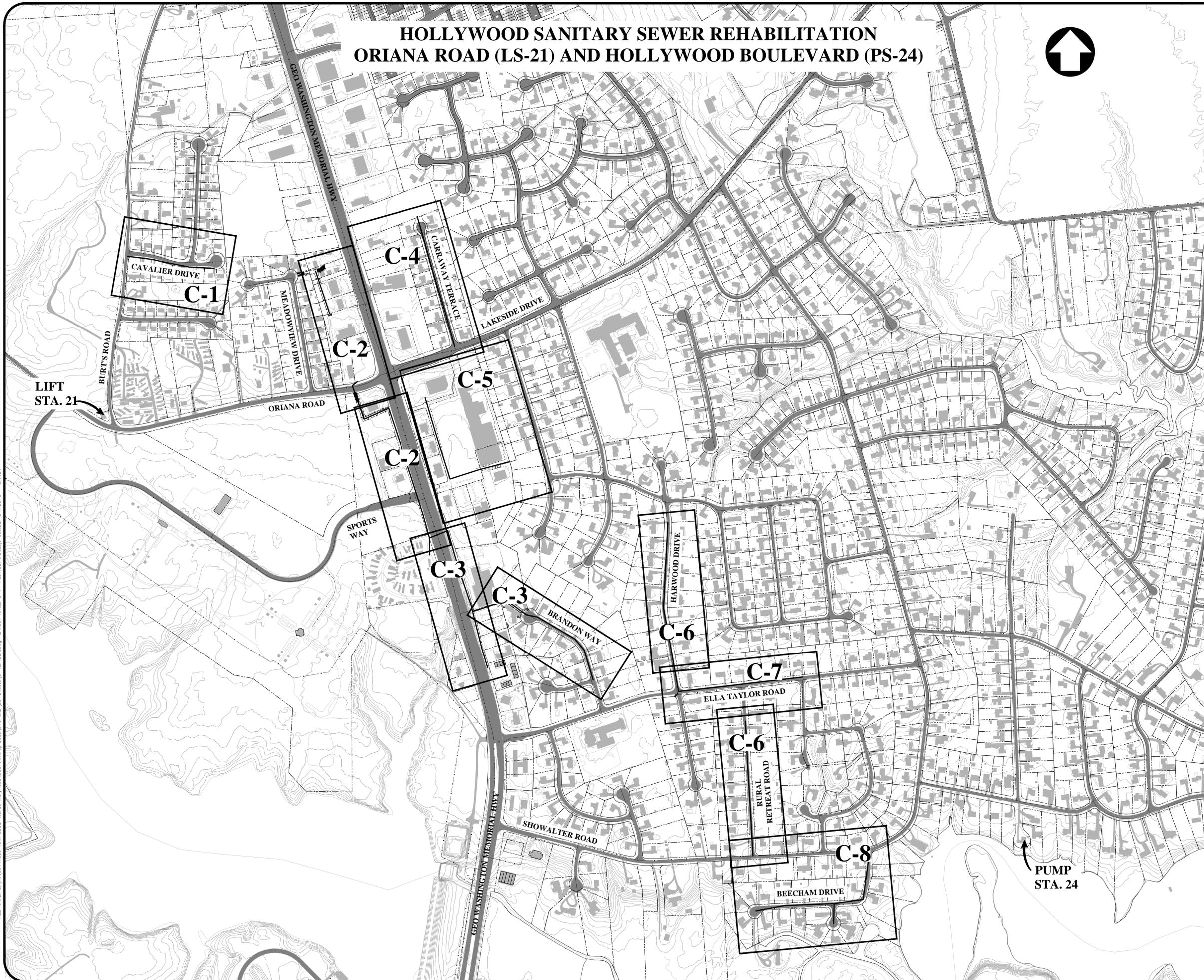




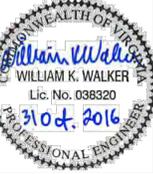
# HOLLYWOOD SANITARY SEWER REHABILITATION ORIANA ROAD (LS-21) AND HOLLYWOOD BOULEVARD (PS-24)



FILE NAME: D:\m\60441866 York Sewer Rehab Hollywood\900 Working Docs\910 CAD\20-Sheets\G-1\_INDEX.dwg LAYOUT NAME: G-1 PLOTTED: Monday, October 31, 2016 - 3:44pm

OFFICE REVIEW SUMMARY

PROJECT MANAGER: WRW	<input type="checkbox"/> 65%	<input type="checkbox"/> 90%	<input type="checkbox"/> 100%	<input type="checkbox"/> FINAL
PROJECT Q/A: CJC	<input type="checkbox"/> 65%	<input type="checkbox"/> 90%	<input type="checkbox"/> 100%	<input type="checkbox"/> FINAL
PROJECT ENGINEER: BA	<input type="checkbox"/> 65%	<input type="checkbox"/> 90%	<input type="checkbox"/> 100%	<input type="checkbox"/> FINAL
DRAFTSMAN: AJW	<input type="checkbox"/> 65%	<input type="checkbox"/> 90%	<input type="checkbox"/> 100%	<input type="checkbox"/> FINAL



DEPARTMENT OF PUBLIC WORKS  
HOLLYWOOD SANITARY SEWER REHABILITATION - PHASE 1

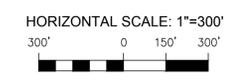
INDEX SHEET

COUNTY OF YORK, VIRGINIA

PROJECT REVISIONS	DATE

ISSUE DATE:  
OCTOBER 2016

SHEET  
**G-1**  
SHEET 2 OF 15



GENERAL NOTES

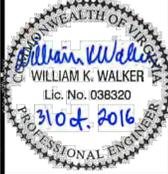
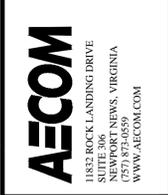
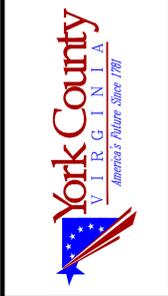
- 1. ALL COMPONENTS OF SANITARY SEWER SYSTEMS SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE CURRENT EDITIONS OF THE YORK COUNTY SANITARY SEWER STANDARDS; HAMPTON ROADS PLANNING DISTRICT COMMISSION REGIONAL CONSTRUCTION STANDARDS, 5TH EDITION; THE VIRGINIA SEWERAGE COLLECTION AND TREATMENT (SCAT) REGULATIONS; AND THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE STANDARDS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY BODY HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO: THE U.S. ARMY CORPS OF ENGINEERS, THE U.S. ENVIRONMENTAL PROTECTION AGENCY, THE DEPARTMENT OF LABOR, THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, AND ALL OTHER LOCAL, STATE, AND FEDERAL AGENCIES HAVING JURISDICTION OVER ANY PORTIONS OF WORK ASSOCIATED WITH THIS PROJECT.
3. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE COUNTY OF YORK EROSION AND SEDIMENT CONTROL ORDINANCE.
4. ALL DISTURBED AREAS, INCLUDING BUT NOT LIMITED TO INGRESS/EGRESS ROUTES, PAVEMENT, DITCHES, HEAD WALLS, END WALLS, CULVERT PIPES, CURB-AND-GUTTER, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAILBOXES, GRASS AND LANDSCAPE AREAS, ETC., SHALL BE REPAIRED TO A CONDITION EQUAL TO OR BETTER THAN THOSE EXISTING PRIOR TO CONSTRUCTION.
5. ROUTINE INSPECTIONS DURING CONSTRUCTION WILL BE PROVIDED BY THE COUNTY OF YORK. THESE INSPECTIONS DO NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATION AND RESPONSIBILITY FOR CONSTRUCTING THE PROJECT IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL CALL "MISS UTILITY" (VIRGINIA 811) AT 1-800-552-7001 AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.
7. HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ANY ERRORS OR DISCREPANCIES SHALL BE REPORTED TO THE COUNTY OF YORK DEPARTMENT OF PUBLIC WORKS BEFORE PROCEEDING WITH THE WORK.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, AND RESOLVING ANY CONFLICTS WITH EXISTING UTILITIES AND SHALL REPAIR, AT HIS OWN EXPENSE, ALL UTILITIES DAMAGED BY CONSTRUCTION.
9. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS AND REQUIREMENTS OF THE OVERHEAD HIGH VOLTAGE LINES SAFETY ACT (SECTION 59.1-406, ET. SEQ. OF THE CODE OF VIRGINIA) IN PERFORMING THIS PROJECT.
10. ACCESS FOR MAIL AND PAPER DELIVERY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
11. A PRE-CONSTRUCTION MEETING SHALL BE HELD ON SITE OR AT ANOTHER AGREED UPON LOCATION BETWEEN THE COUNTY, VDOT, THE PROJECT ENGINEERS AND THE CONTRACTOR PRIOR TO ISSUANCE OF A LAND DISTURBANCE PERMIT.
12. ALL WORK SHALL BE CONFINED TO WITHIN THE VDOT RIGHT-OF-WAY AND/OR ANY YORK COUNTY TEMPORARY OR PERMANENT EASEMENTS UNLESS SHOWN OTHERWISE ON THE PLANS.
13. FOR ANY WORK WITHIN THE VDOT RIGHT-OF-WAY, APPROPRIATE TRAFFIC CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE U.S. DEPARTMENT OF TRANSPORTATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD); THE VDOT VIRGINIA SUPPLEMENT TO THE MUTCD; AND THE VDOT WORK AREA PROTECTION MANUAL.
14. THE CONTRACTOR SHALL KEEP ONE RECORD COPY OF THE DRAWINGS, SPECIFICATIONS, ADDENDA, MODIFICATIONS, SHOP DRAWINGS, AND ANY OTHER CONTRACT DOCUMENTS AT THE SITE IN GOOD ORDER AND ANNOTATED TO SHOW ALL CHANGES MADE DURING THE CONSTRUCTION PROCESS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PROPERTY OWNER(S) AT LEAST 24 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES TAKING PLACE AT, ON, OR IN THE IMMEDIATE VICINITY OF THEIR PROPERTY SUCH THAT ACCESS TO THEIR PROPERTY WOULD BE IMPAIRED.
16. ALL PROPERTY BOUNDARY MARKERS SHOWN ON THE DRAWINGS OR DISCOVERED DURING THE COURSE OF CONSTRUCTION SHALL BE PROTECTED.
17. RECORD DRAWINGS SHALL COMPLY WITH SECTION 105, CONTROL OF THE WORK, AND THE SPECIAL PROVISIONS.

- 18. ALL WORK SHALL COMPLY WITH APPLICABLE STANDARDS, ORDINANCES, REGULATIONS, AND OTHER REQUIREMENTS OF THE HRPDC REGIONAL CONSTRUCTION STANDARDS AS AMENDED FOR THIS PROJECT.
19. THE GRAVITY COLLECTION SYSTEM IS CONSTRUCTED WITH VARIED MATERIALS INCLUDING, BUT NOT LIMITED TO, DUCTILE IRON, PVC, AND TRUSS.
20. CONTRACTOR SHALL ENSURE SEWER SERVICE TO AFFECTED PARCELS DURING PROJECT ACTIVITIES.
21. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS IN SPECIFICATION SECTION 812, FLOW CONTROL.
22. REHABILITATION SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
23. THE INABILITY TO REHABILITATE A SECTION OF PIPING SHALL BE DETERMINED BY THE OWNER AND APPROVED BY THE OWNER PRIOR TO EXCAVATION.
24. THE CONTRACTOR IS ENCOURAGED TO VISIT THE JOB SITE AND REVIEW AVAILABLE INSPECTION VIDEO PRIOR TO SUBMITTING A BID.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING THE TRACKING OF DIRT AND MUD ONTO ROADS AND PUBLIC RIGHT-OF-WAYS.
26. PUBLIC LATERALS SHOWN ON PLANS AND PROFILES ARE APPROXIMATE BASED ON YORK COUNTY PROVIDED GIS, RECORD DRAWINGS, AND ENGINEERING DISCRETION.
27. THE EXISTING GRADE SHOWN ON PROFILES IS APPROXIMATE BASED ON YORK COUNTY-PROVIDED GIS CONTOURS, FIELD OBSERVATIONS, AND APPROXIMATED FIELD MEASUREMENTS AT MANHOLES.
28. PHYSICAL FEATURES, PLANIMETRICS OF SEWER LINE, MANHOLE LOCATIONS AND RIM ELEVATIONS, PROPERTY LINES, AND PROPERTY DATA ARE ALL BASED UPON YORK COUNTY-PROVIDED DATA.
29. AECOM WAIVES ANY AND ALL RESPONSIBILITY AND/OR LIABILITY FOR PROBLEMS ARISING FROM INTENTIONAL DEVIATION FROM THESE DOCUMENTS BY THIRD PARTIES UNLESS WITH AECOM'S PRIOR WRITTEN APPROVAL.
30. THE EXISTING EASEMENTS ARE CENTERED ON THE SEWER MAIN AND SERVICE LATERALS.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMISSION TO ACCESS PRIVATE PROPERTIES OUTSIDE THE EXISTING EASEMENT AND/OR RIGHT-OF-WAY.
32. TRAFFIC CONTROL AND SIGNAGE MUST BE IN ACCORDANCE WITH VDOT STANDARDS AND THE CONTRACT DOCUMENTS.
33. AFTER EACH WORKDAY, THE WORK SITE SHALL BE LEFT IN A CONDITION THAT IS ORDERLY AND SAFE TO THE PUBLIC.
34. CONTRACTOR SHALL PROVIDE SILT FENCE ONLY WHERE SURFACE DISTURBANCES OCCUR OR ACCESS IS SOUGHT AND APPROVED.
35. SILT FENCE AS SHOWN ON THE DRAWINGS SHALL DEFINE THE PERIMETER OF THE LIMITS OF DISTURBANCE UNLESS OTHERWISE NOTED.
36. CONTRACTOR SHALL CONFIRM WHETHER PIPE CONNECTIONS TO MANHOLES ARE ACTIVE. IF INACTIVE, CONTRACTOR SHALL GRIND PIPE FLUSH WITH MANHOLE WALL AND PLUG WITH NON-SHRINK GROUT PRIOR TO MANHOLE COATING SYSTEM APPLICATION.

- 37. IF NO SERVICE CLEANOUT WITHIN THE RIGHT-OF-WAY OR EASEMENT IS PRESENT FOR A SERVICE LATERAL SCHEDULED FOR REHABILITATION, CONTRACTOR SHALL INSTALL AN LMK VAC-A-TEE SERVICE CLEANOUT, OR APPROVED EQUAL, NEAR THE EDGE OF THE RIGHT-OF-WAY OR EASEMENT AS DIRECTED BY OWNER.
38. IF EXISTING SERVICE LATERALS ARE TOO CLOSE TOGETHER TO ACCOMMODATE A T-LINER, CONTRACTOR SHALL INSTALL A SOCK STYLE LINER WITH GASKETED HYDROPHILIC END SEALS AND SHALL PACK THE EXPOSED JOINTS TO OBTAIN A WATERTIGHT SEAL.
39. ANY WITHDRAWALS FROM NEWPORT NEWS WATERWORKS (NNWW) POTABLE WATER HYDRANTS MUST BE THROUGH A NNWW BACKFLOW PREVENTION/WATER METER DEVICE WHICH THE CONTRACTOR SHALL OBTAIN FROM NNWW AT THE LEE HALL OPERATIONS CENTER METER SHOP, (757)234-4913.
40. ELEVATIONS ARE APPROXIMATE AND ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
41. CONTRACTOR MAY UTILIZE ANY SEWER EASEMENT WITHIN SILT FENCE AND/OR LIMITS OF DISTURBANCE SHOWN ON DRAWINGS FOR INGRESS/EGRESS.
42. CONTRACTOR IS TO COORDINATE WITH LOCAL PROPERTY OWNERS PRIOR TO DISTURBING ANY LANDSCAPING WITHIN EASEMENT.
43. ALL INGRESS/EGRESS ROUTES MUST BE RETURNED TO PRE-CONSTRUCTION CONDITION AT THE CONCLUSION OF THE PROJECT.
44. REHABILITATED MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH SECTION 802 OF THE CONTRACT DOCUMENTS.
45. CONTRACTOR SHALL COORDINATE WITH VDOT, (757)253-5138, TO ACCESS ASSETS LOCATED WITHIN THE VDOT RIGHT-OF-WAY.
46. NO STAGING OR STOCKPILING WILL BE PERMITTED WITHIN ANY STATE-MAINTAINED RIGHT-OF-WAYS OR EASEMENTS.
47. CONTRACTOR SHALL NOT ALLOW SEDIMENT FROM DISTURBED AREAS TO DRAIN TO ANY DRAINAGE WAYS OR INTO ANY VDOT RIGHT-OF-WAYS.
48. ALL PROPOSED UTILITIES ENCROACHING WITHIN THE LIMITS OF A STATE MAINTAINED DITCH SHALL MAINTAIN A MINIMUM DEPTH OF 24" AS MEASURED FROM THE BOTTOM OF THE DITCH THROUGHOUT THE ENTIRE UTILITY ENCROACHMENT.
49. EXISTING CURB AND GUTTER AND/OR SIDEWALKS DAMAGED DURING CONSTRUCTION SHALL BE RETURNED TO PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE PROJECT.
50. SPEED LIMIT AT ALL CONTRACTOR INGRESS/EGRESS ROUTES SHOWN ON THE DRAWINGS IS 25 MPH UNLESS NOTED OTHERWISE.
51. CONTRACTOR SHALL SECURE LAND DISTURBING PERMIT AND SILTATION AGREEMENT FROM YORK COUNTY AT NO ADDITIONAL COST TO THE PROJECT (OWNER).
52. CONTRACTOR SHALL PROVIDE LOCATIONS OF ALL INGRESS/EGRESS POINTS THAT ABUT VDOT RIGHT-OF-WAYS AND THAT WILL BE UTILIZED DURING CONSTRUCTION TO YORK COUNTY AT LEAST 15 DAYS PRIOR TO INITIATION OF CONSTRUCTION TO ALLOW YORK COUNTY TIME TO OBTAIN THE VDOT CE-7 PERMIT.
53. CONTRACTOR SHALL OBTAIN AGREEMENT FROM OWNER PRIOR TO UTILIZING PROPOSED STOCKPILE/STAGING AREAS LOCATED ON OWNER PROPERTY AND/OR WITHIN OWNER EASEMENT.
54. CONTRACTOR SHALL TAKE PRECAUTION WITH THE CURING AND COOLING OF CIPP LINERS.
55. WHERE SEWER MAIN IS CONSTRUCTED OF METALLIC MATERIAL (E.G., DUCTILE IRON), CIPP LINER THICKNESS SHALL BE DESIGNED FOR A FULLY-DETERIORATED HOST PIPE CONDITION.
56. LATERALS ARE FOUR INCHES (4") IN DIAMETER, AND DUAL SERVICE LATERALS ARE SIX INCHES (6") FROM WYE TO TAP, UNLESS OTHERWISE NOTED.
57. RAIN COVER SHALL BE STAINLESS STEEL MANHOLE INSERT AS MANUFACTURED BY PARSON ENVIRONMENTAL PRODUCTS, INC., OR APPROVED EQUAL.
58. WITH A MINIMUM OF TWO (2) WORKING DAYS' ADVANCE NOTICE PROVIDED TO OWNER AND SUBSEQUENT APPROVAL FROM OWNER, CONTRACTOR MAY ELECT TO WORK ON YORKTOWN DAY (OCTOBER 19TH) AND ON SATURDAYS. A SEPARATE REQUEST SHALL BE SUBMITTED FOR EACH SATURDAY ON WHICH CONTRACTOR ELECTS TO DO WORK.

FILE NAME: O:\m\60441866\_York\_Sewer\_Rehab\_Hollywood\900\_Working\_Docs\910\_CAD\20-Sheets\G-2\_NOTES.dwg LAYOUT NAME: G-2\_PLOTTED: Monday, October 31, 2016 - 3:44pm

OFFICE REVIEW SUMMARY table with columns for PROJECT MANAGER, PROJECT Q.A. Q.C., PROJECT ENGINEER, DRAFTSMAN and checkboxes for 75%, 90%, 100% completion for RWK, FAN, BA, AJW.

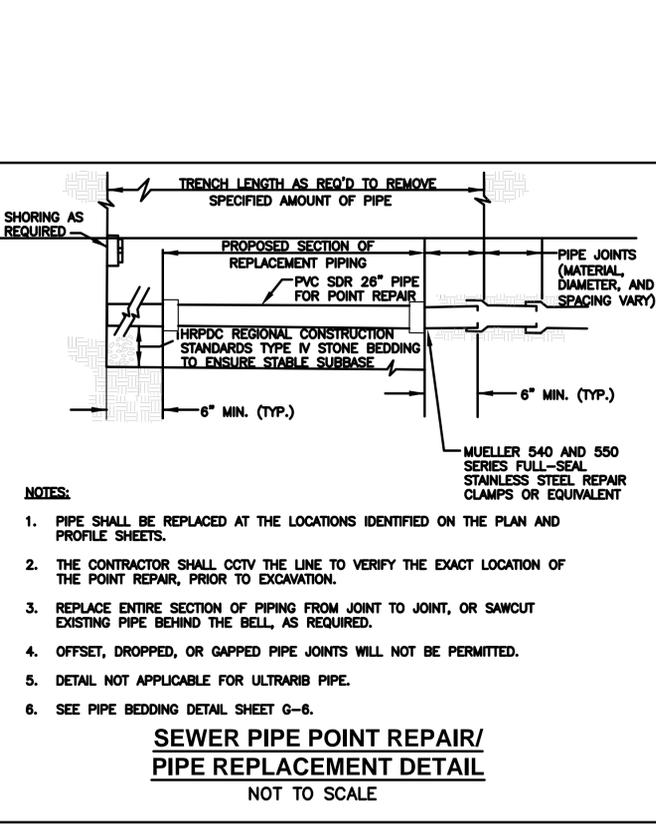
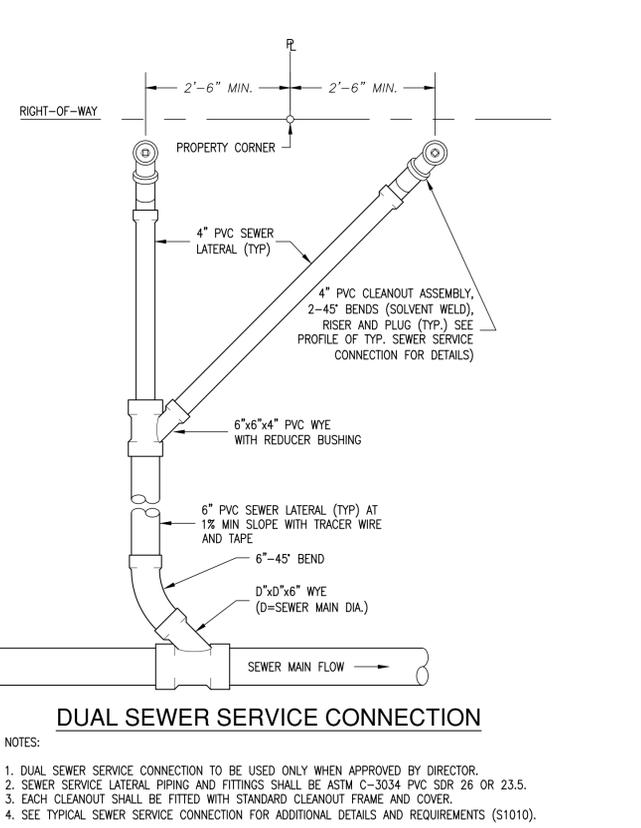
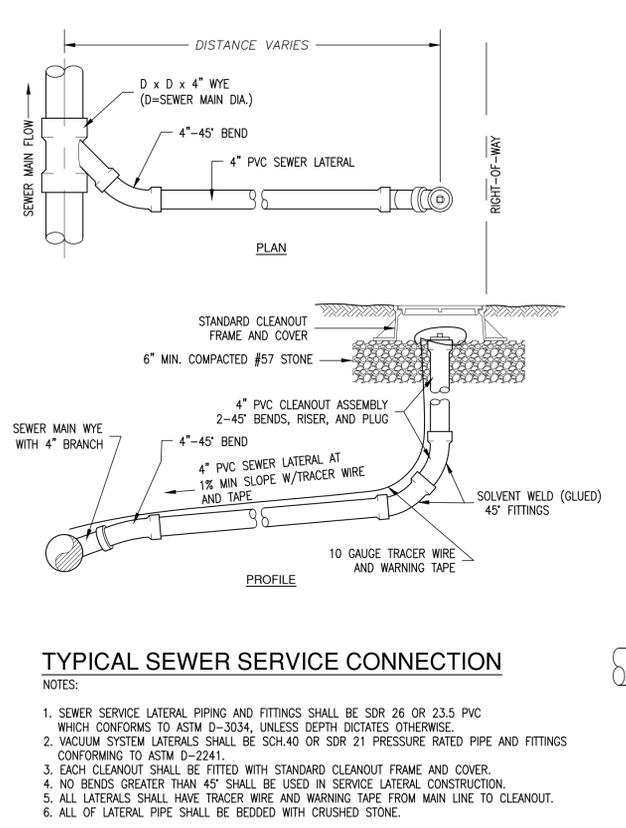
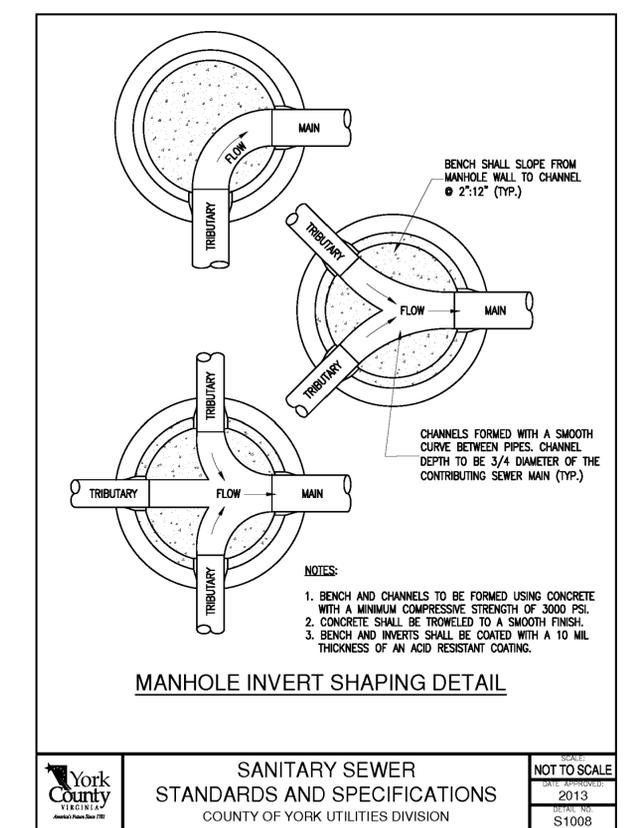
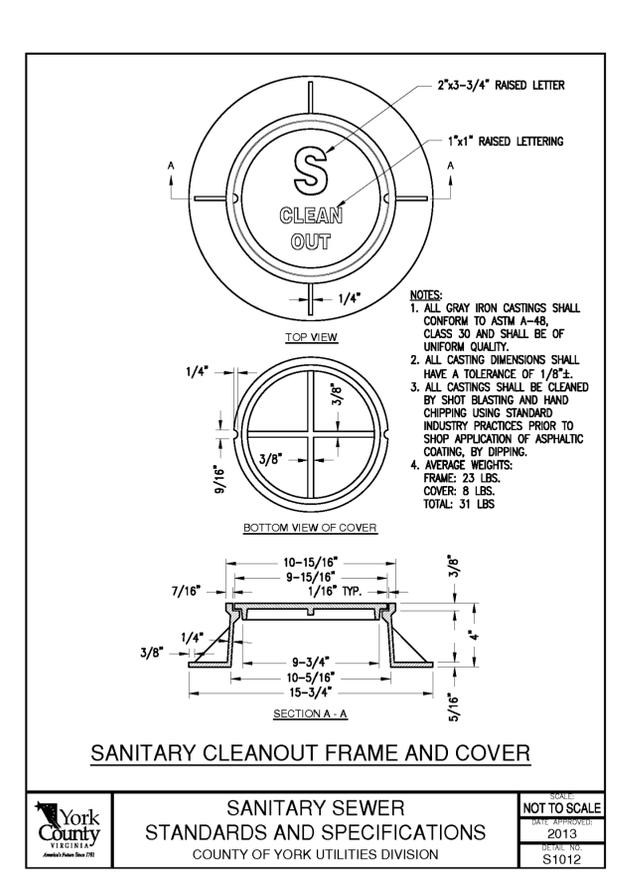
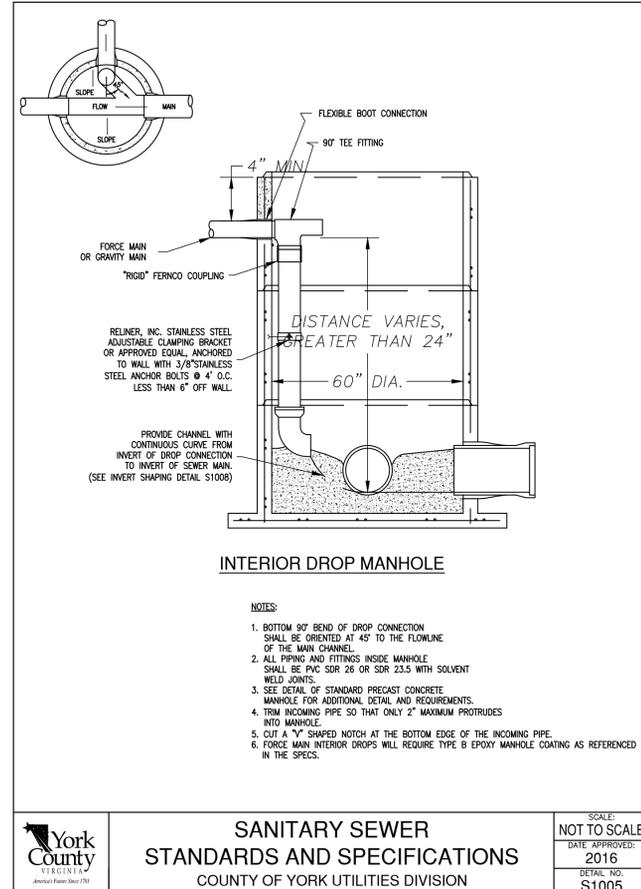
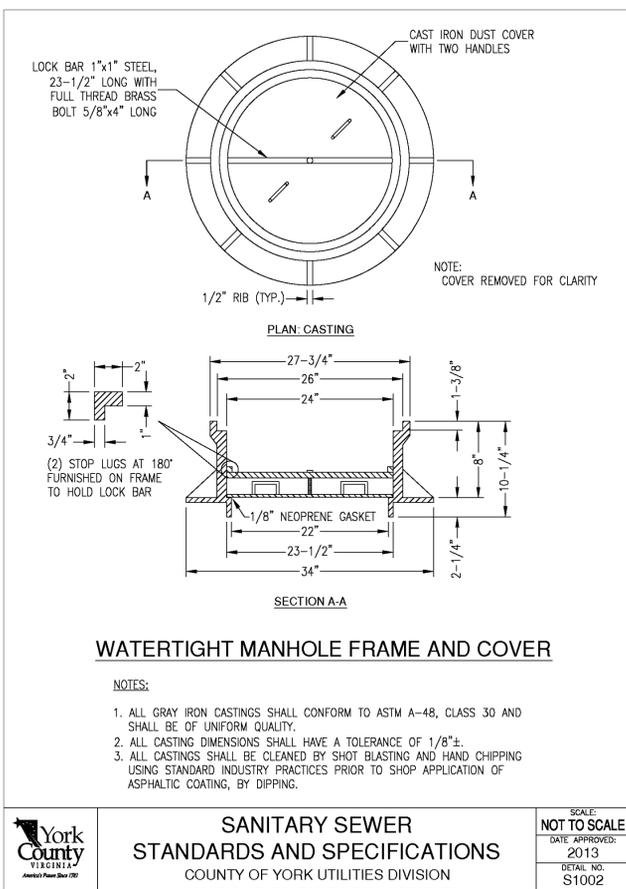
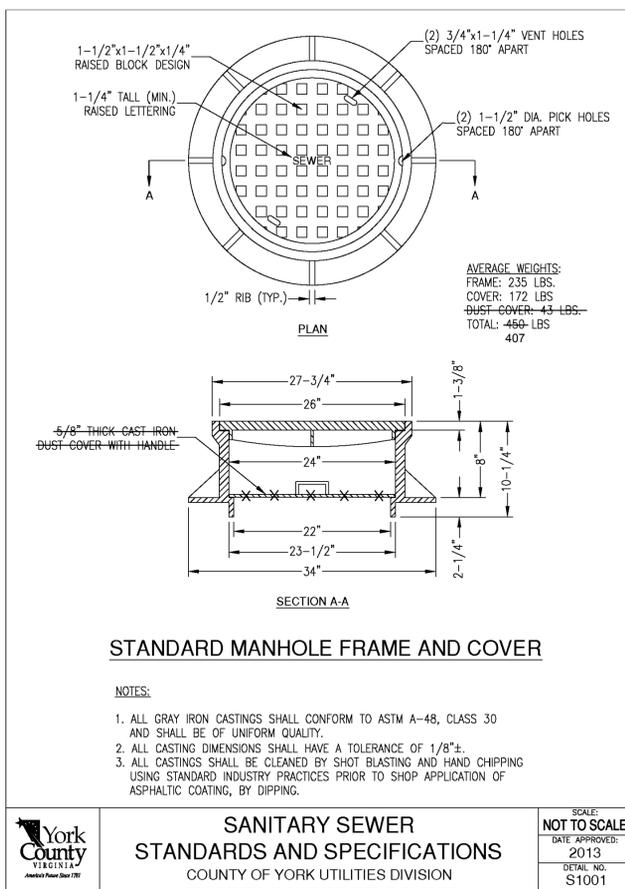


DEPARTMENT OF PUBLIC WORKS
HOLLYWOOD SANITARY SEWER REHABILITATION - PHASE 1
GENERAL NOTES
COUNTY OF YORK, VIRGINIA

PROJECT REVISIONS table with columns for NO., DATE, and DESCRIPTION.

ISSUE DATE: OCTOBER 2016

SHEET G-2



FILE NAME: C:\ym\60441866 York Sewer Rehab-Hollywood\900 Working Docs\910 CAD\20-Sheets\C-3-DETAILS.dwg LAYOUT NAME: G-3-DETAILS PLOTTED: Monday, October 31, 2016 - 3:44pm

OFFICE REVIEW SUMMARY: PROJECT MANAGER: WKW 100% FINAL, PROJECT Q.A. C.C. 100% FINAL, PROJECT ENGINEER: BA 100% FINAL, DRAFTSMAN: AJW 100% FINAL

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COMMONWEALTH OF VIRGINIA  
Professional Engineer  
William K. Walker  
Lic. No. 038320  
31 Oct. 2016

DEPARTMENT OF PUBLIC WORKS  
HOLLYWOOD SANITARY SEWER REHABILITATION - PHASE 1

**SANITARY SEWER DETAILS**

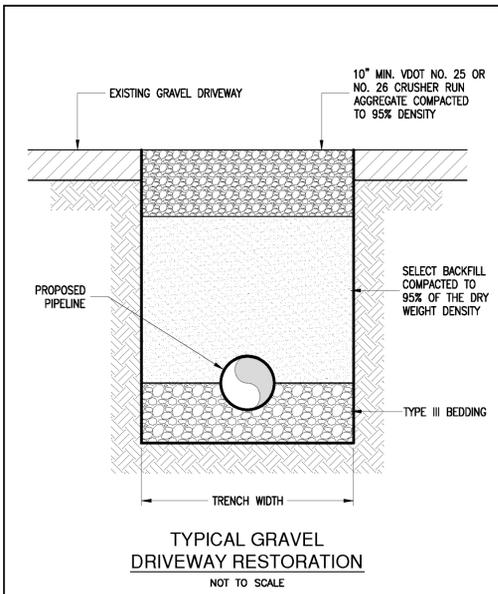
COUNTY OF YORK, VIRGINIA

PROJECT REVISIONS: DATE, DATE

ISSUE DATE: OCTOBER 2016

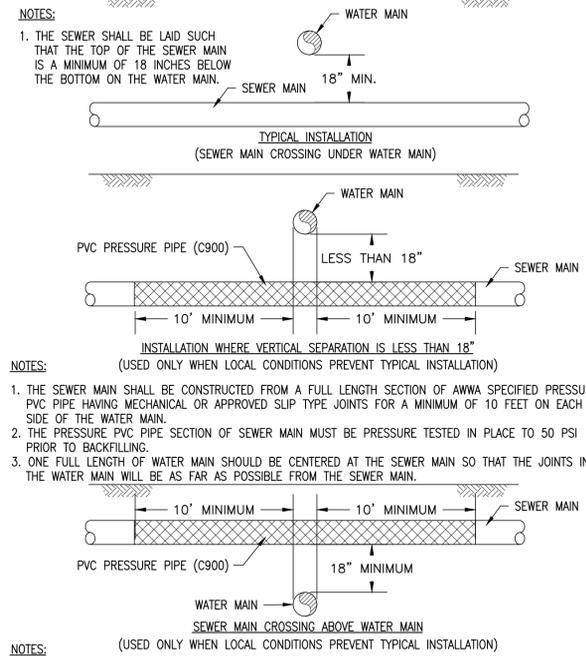
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SHEET 4 OF 15

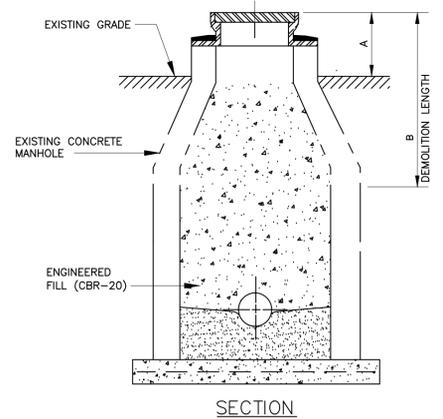
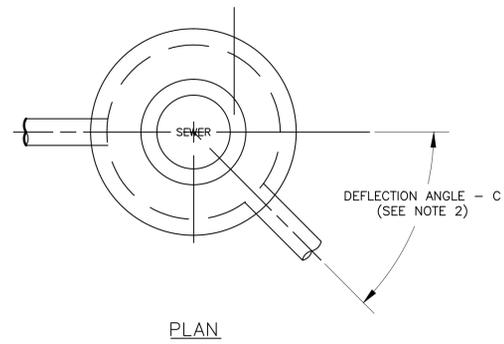


**SANITARY SEWER STANDARDS AND SPECIFICATIONS**  
COUNTY OF YORK UTILITIES DIVISION

NOT TO SCALE  
2013  
S2032



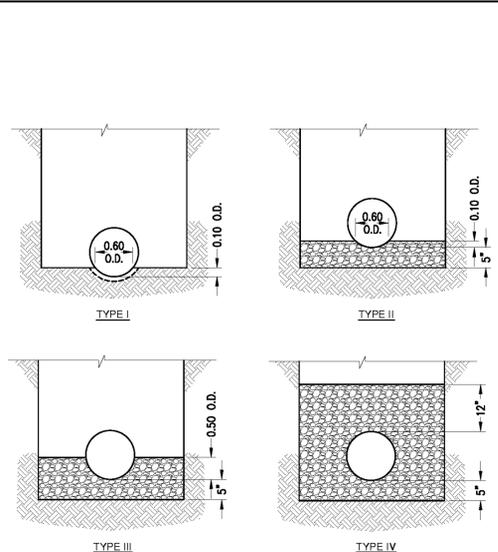
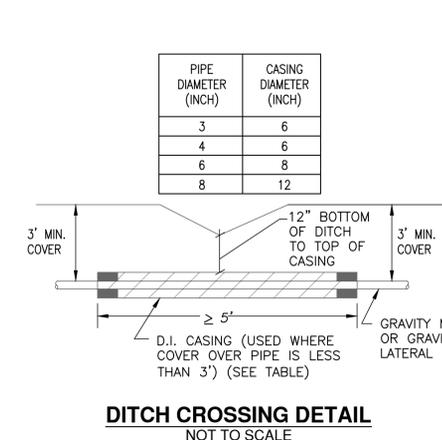
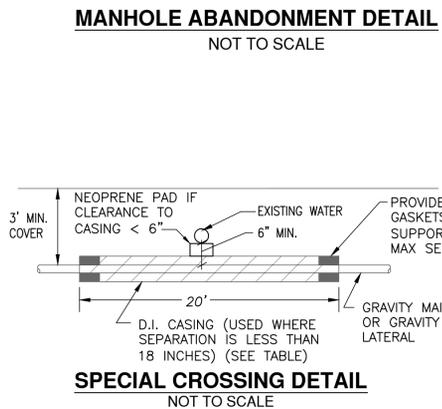
**WATER-SEWER CROSSING SEPARATION DETAIL**  
NOT TO SCALE



**MANHOLE ABANDONMENT SCHEDULE**

MH ID	RIM ELEV.	INVERT ELEV.	A (+)(FT.)	B (**)(FT.)	C (DEG.)
024216A	38.00	26.85	0.00	5.50	0
024214	39.98	25.78	0.00	5.50	6

(\*) APPROXIMATE BASED ON FIELD OBSERVATION.  
(\*\*) APPROXIMATE DEPTH TO JOINT AT BOTTOM OF CONE.

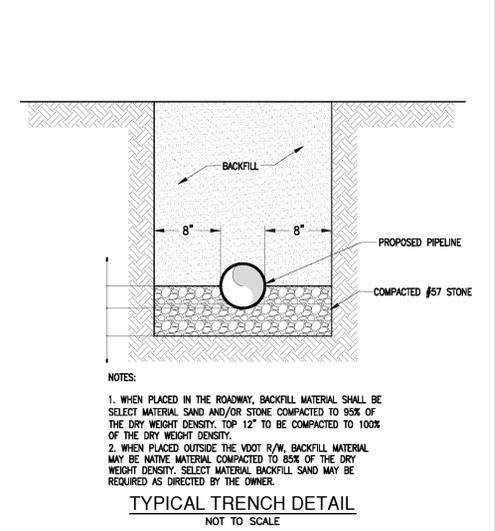


**PIPE BEDDING DETAILS**

NOTES:  
1. BEDDING SHALL BE APPROVED BEFORE USE.  
2. TRENCH BOTTOM SHALL BE FREE OF WATER BEFORE PLACEMENT OF BEDDING.  
3. SHAPE RECESSES BY HAND FOR PIPE BELL.  
4. BACKFILL ABOVE BEDDING WITH SPECIFIED BACKFILL MATERIAL.

**SANITARY SEWER STANDARDS AND SPECIFICATIONS**  
COUNTY OF YORK UTILITIES DIVISION

NOT TO SCALE  
2013  
S3001



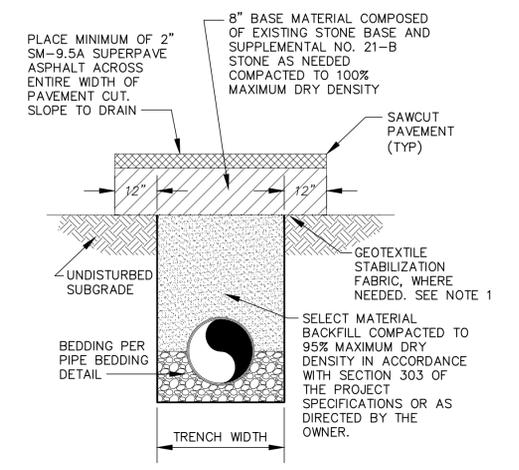
**TYPICAL TRENCH DETAIL**  
NOT TO SCALE

NOTES:  
1. WHEN PLACED IN THE ROADWAY, BACKFILL MATERIAL SHALL BE SELECT MATERIAL SAND AND/OR STONE COMPACTED TO 95% OF THE DRY WEIGHT DENSITY. TOP 12\"/>

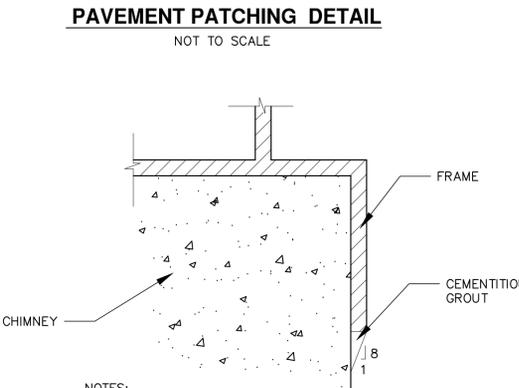
**SANITARY SEWER STANDARDS AND SPECIFICATIONS**  
COUNTY OF YORK UTILITIES DIVISION

NOT TO SCALE  
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S2031

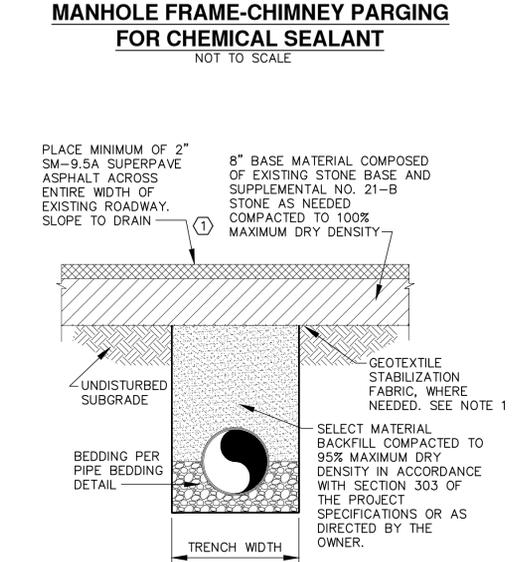
- NOTES:**
- REMOVE MANHOLE FROM FRAME AND COVER TO BOTTOM OF CONE AND DISPOSE OF DEMOLITION WASTE OFF-SITE IN A PERMITTED WASTE OR RECYCLING FACILITY.
  - INSTALL HALF-SECTION OF PIPE MATCHING DIAMETER OF GRAVITY MAIN OVER CHANNEL TO SERVE AS CROWN FORM FOR CIPP LINER.
  - INSTALL TEMPORARY BALLAST ON HALF-PIPE. REMOVE BALLAST AFTER CURING CIPP LINER. HALF-PIPE SHALL REMAIN IN PLACE.
  - CIPP LINER SHALL EXTEND UNINTERRUPTED THROUGH MANHOLE. REMOVE PORTIONS OF EXISTING INVERT SHAPING BENCH AS NECESSARY TO ACCOMMODATE CIPP LINER INSTALLATION AND MAINTAIN PIPE SLOPE THROUGH THE MANHOLE.
  - COMPACT ENGINEERED FILL TO 90% MAXIMUM DRY DENSITY IN 12" LIFTS.
  - MATCH EXISTING SOIL MATERIAL FOR TOP 6" OF BACKFILL. MATCH EXISTING GRADE UPON COMPLETING BACKFILL COMPACTION.



- NOTE:**  
1. WHERE THE SUPPLEMENTAL VDOT TYPE 21-B STONE WILL BE PLACED ON SUBGRADE MATERIAL, A GEOTEXTILE STABILIZATION FABRIC CONFORMING TO THE REQUIREMENTS OF VDOT SPECIAL PROVISION FOR SECTION 245 - GEOSYNTHETICS, SHALL BE PLACED ON THE SUBGRADE BELOW THE SUPPLEMENTAL TYPE 21-B STONE.



- NOTE:**
- PREPARE MANHOLE FRAME AND CHIMNEY FOR CHEMICAL SEALANT.
  - INSTALL CEMENTITIOUS GROUT AS SHOWN AND ALLOW 24 HOURS MINIMUM CURING PRIOR TO APPLYING SEALANT.

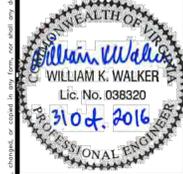
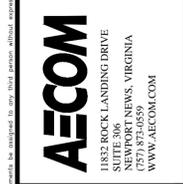


- NOTE:**  
1. WHERE THE SUPPLEMENTAL VDOT TYPE 21-B STONE WILL BE PLACED ON SUBGRADE MATERIAL, A GEOTEXTILE STABILIZATION FABRIC CONFORMING TO THE REQUIREMENTS OF VDOT SPECIAL PROVISION FOR SECTION 245 - GEOSYNTHETICS, SHALL BE PLACED ON THE SUBGRADE BELOW THE SUPPLEMENTAL TYPE 21-B STONE.

**FINAL PAVEMENT RECONSTRUCTION DETAIL**  
NOT TO SCALE

**OFFICE REVIEW SUMMARY**

PROJECT MANAGER: WKW	FINAL
PROJECT Q/A: Q/C	FAM
PROJECT ENGINEER: BA	FINAL
DRAFTSMAN: AJW	FINAL



DEPARTMENT OF PUBLIC WORKS  
HOLLYWOOD SANITARY SEWER REHABILITATION - PHASE I

**SANITARY SEWER DETAILS**  
COUNTY OF YORK, VIRGINIA

**PROJECT REVISIONS**

NO.	DATE	DESCRIPTION

ISSUE DATE:  
OCTOBER 2016

**SHEET G-4**  
SHEET 5 OF 15

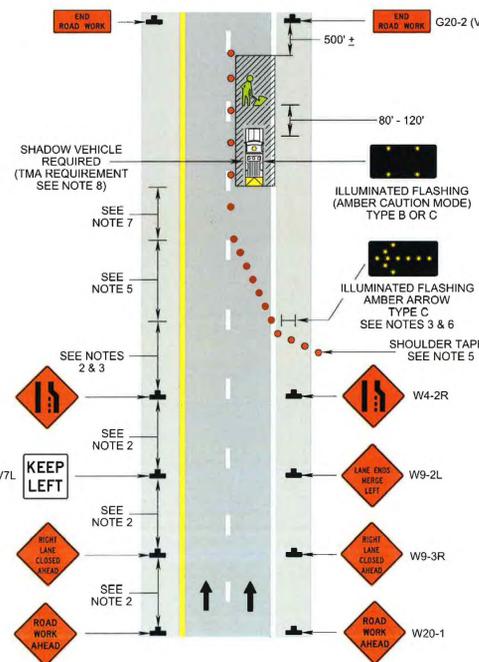
FILE NAME: O:\m\60441866 York Sewer Rehab Hollywood\900 Working Docs\910 CAD\20-Sheets\G-4-DETAILS.dwg LAYOUT NAME: G-4-DETAILS PLOTTED: Monday, October 31, 2016 - 3:45pm



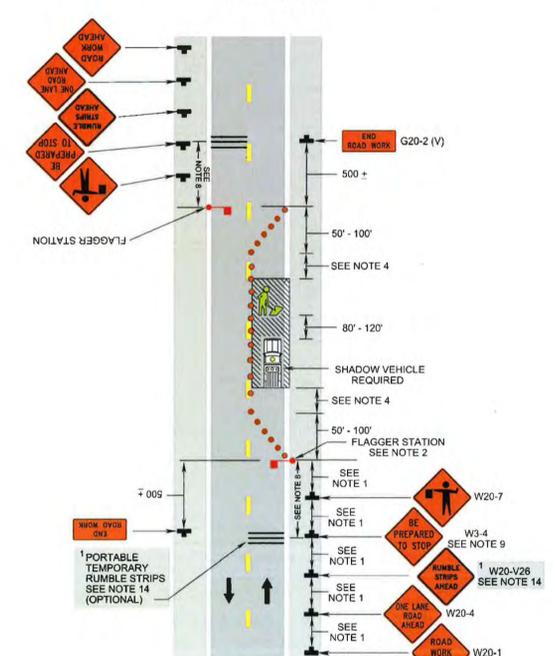
**TRAFFIC CONTROL GENERAL NOTES**

1. THE CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL INSTALL SUFFICIENT MEASURES TO ENSURE PUBLIC SAFETY WITHIN THE WORK AREA.
3. 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-WAY, AT ALL TIMES DURING THE DAY AND NIGHT.
4. THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES (SIGNS, FLAG PERSONS, ETC.) NECESSARY TO ENSURE PROPER SAFETY AND CURRENT VEHICULAR CONTROL.
5. ALL TRAFFIC CONTROL METHODS AND DEVICES INCLUDING SIGNS AND BARRICADES SHALL CONFORM WITH THE CURRENT EDITION OF PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE VIRGINIA WORK AREA PROTECTION MANUAL.
6. THE CONTRACTOR WILL BE ALLOWED LANE CLOSURE DURING NORMAL WORK HOURS WHILE INSTALLING PIPE OR DURING ROAD RECONSTRUCTION. SIGNAGE WILL BE REQUIRED AS STATED BELOW.
7. THE CONTRACTOR SHALL NAME ONE INDIVIDUAL WHO WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL.
8. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT.
9. THE CONTRACTOR SHALL ABIDE BY THE HOLIDAY AND WORKDAY SCHEDULE ESTABLISHED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) AND THE CONTRACT DOCUMENTS.
10. CHANNELING DEVICES MUST SEPARATE THE WORK AREA FROM THE TRAVELED WAY AND BE EXTENDED TO WHERE THEY ARE VISIBLE TO ONCOMING TRAFFIC.
11. THE TRAFFIC CONTROL DETAILS ILLUSTRATED ON SHEET G-6 ARE PROVIDED IN AN EFFORT 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 COUNTY OF YORK AND THE ENGINEER 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.
12. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION TO 150 LF AT ONE TIME TO MINIMIZE INTERFERENCE WITH ON STREET PARKING. THIS LENGTH DOES NOT INCLUDE THE LENGTH OF TAPERS WHERE TRAFFIC CONES OR DRUMS ARE USED TO GUIDE TRAFFIC.
13. THE CONTRACTOR SHALL ABIDE BY THE REQUIREMENTS ESTABLISHED IN THE HIGHWAY PERMIT ISSUED TO YORK COUNTY FROM VDOT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND ADOPTING THE APPROPRIATE TRAFFIC CONTROL PLAN TO BEST SUIT CONDITIONS AT EACH WORK SITE, AND SUBMIT THIS PLAN TO VDOT FOR REVIEW AT LEAST 10 WORKING DAYS, UNLESS OTHERWISE NOTED, PRIOR TO THE START OF WORK. YORK COUNTY AND VDOT RESERVE THE RIGHT TO MODIFY THE TRAFFIC CONTROL PLAN AS NECESSARY IN THE INTEREST OF PUBLIC SAFETY OR CONVENIENCE. THE TRAFFIC CONTROL PLANS SHOWN IN THE PROJECT PLANS MAY BE USED WHEN CONDITIONS ARE WARRANTED.
15. IF THERE IS AN APPROVAL FOR A LANE CLOSURE OR A TEMPORARY STREET CLOSURE, ALL LANES OF TRAFFIC SHALL BE REOPENED TO TRAFFIC AT THE CONCLUSION OF EACH CONSTRUCTION DAY, UNLESS A 24 HOUR TEMPORARY STREET CLOSURE IS APPROVED AND IN EFFECT.
16. IN ALL CASES IN WHICH AN EXISTING OR ESTABLISHED TRAFFIC PATTERN SHALL BE DISRUPTED, THE CONTRACTOR SHALL NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES AT LEAST 24 HOURS IN ADVANCE OF THE ANTICIPATED DISRUPTION BY DISTRIBUTING DOOR-TO-DOOR NOTICES. A COPY OF THE NOTICE SHALL BE FORWARDED TO VDOT AND THE YORK COUNTY PROJECT REPRESENTATIVE PRIOR TO BEGINNING WORK.
17. THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY PAVEMENT MARKINGS OR TRAFFIC CONTROL DEVICES DAMAGED BY CONSTRUCTION ACTIVITIES.
18. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO TRAFFIC SIGNAL EQUIPMENT, INCLUDING LOOP DETECTORS AND INTERCONNECT CABLE.
19. ALL CONTRACTOR EMPLOYEES AND SUBCONTRACTOR(S) EMPLOYEES EXPOSED TO VEHICULAR TRAFFIC SHALL BE PROVIDED WITH AND REQUIRED TO WEAR WARNING VEST 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 1926, 1989 EDITION. ALL FLAGGERS MUST BE CERTIFIED AND USE A STOP/SLOW PADDLE WHEN FLAGGING TRAFFIC.
20. ALL TEMPORARY CONSTRUCTION WARNING SIGNS FURNISHED IN CONJUNCTION WITH THE MAINTENANCE AND PROTECTION OF TRAFFIC THROUGH AREAS OF CONSTRUCTION AND DETOURS SHALL HAVE FLUORESCENT ORANGE PRISMATIC LENS TYPE RETROREFLECTIVE SHEETING. ALL OTHER SIGNS SHALL BE VIP PRISMATIC LENS TYPE RETROREFLECTIVE SHEETING.
21. THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION WARNING SIGNS (ROAD/UTILITY WORK AHEAD & END ROAD/UTILITY WORK) ON WOODEN POSTS PRIOR TO BEGINNING CONSTRUCTION AND SHALL REMOVE SUCH SIGNS AND POSTS AFTER COMPLETION OF ALL CONSTRUCTION ACTIVITIES.
22. TEMPORARY STREET CLOSURES SHALL BE PRE-APPROVED BY YORK COUNTY AND VDOT. CLOSURES SHALL ONLY BE ALLOWED WHEN TRAFFIC CAN BE SAFELY DETOURED, PROVIDING:
  - A. NO MORE THAN ONE (1) ROAD CLOSURE IS PERMITTED AT ANY GIVEN TIME.
  - B. AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT THEIR SCHEDULE OF CONSTRUCTION SEQUENCE AND A LIST OF ALL PROPOSED STREET CLOSURES AND DATES OF CLOSURES THAT MAY BE IN EFFECT DURING CONSTRUCTION.
  - C. THE CONTRACTOR SHALL SUBMIT TO VDOT AND YORK COUNTY A TRAFFIC MAINTENANCE AND CONTROL PLAN FOR EACH SEPARATE STREET CLOSURE AND A WRITTEN NOTICE REQUESTING EACH SEPARATE ROAD CLOSURE A MINIMUM OF 14 WORKING DAYS PRIOR TO THE STARTING OF EACH SEPARATE STREET CLOSURE. THE CONTRACTOR SHALL NOT CLOSE A STREET TO THROUGH TRAFFIC UNLESS THERE IS AN APPROVED TRAFFIC CONTROL PLAN ON SITE FOR THAT PARTICULAR STREET.
  - D. TEMPORARY STREET NAME BLADES SHALL BE INSTALLED ABOVE DETOUR ROUTE MARKER SIGNS AND SHALL CONFORM TO THE FOLLOWING: STREET NAME LETTERING SHALL BE HIGHWAY GOTHIC C SERIES SIX INCHES (6") IN HEIGHT. STREET NAME BLADES SHALL HAVE AN ORANGE BACKGROUND WITH BLACK LETTERS. THE BACKGROUND COLOR SHALL BE MADE FROM FLUORESCENT ORANGE PRISMATIC LENS TYPE RETROREFLECTIVE SHEETING MATERIAL.
  - E. "PUBLIC NOTICE" SIGNS SHALL BE INSTALLED SEVEN TO FOURTEEN (7-14) DAYS IN ADVANCE OF A TEMPORARY ROAD CLOSURE ADVISING MOTORISTS OF THE PROPOSED ROAD CLOSURE. THE SIGN SHALL INCLUDE THE STREET NAME OF THE ROAD BEING CLOSED AND THE DATES AS TO WHICH WORK WILL BEGIN AND END. THE CONTRACTOR SHALL SUBMIT TO COUNTY OF YORK DEPARTMENT OF PUBLIC WORKS A SHOP DRAWING OF THE PUBLIC NOTICE SIGN AT LEAST 14 DAYS PRIOR TO INSTALLING A PUBLIC NOTICE SIGN.
  - F. ADVANCED WARNING SIGNS FOR A STREET CLOSURE SHALL BE PROVIDED IN EACH DIRECTION AFFECTING TRAFFIC FLOW. SIGNS WILL BE MOUNTED ON 6" x 6" WOODEN POSTS AND WILL BE SEVEN FEET (7') FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE GROUND. AT A MINIMUM, THESE SIGNS SHALL INCLUDE:
    - "ROAD WORK AHEAD"
    - "DETOUR AHEAD"
    - "DETOUR ROUTE MARKER"
    - "END DETOUR"
23. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE REMOVED FROM THE RIGHT-OF-WAY AT THE END OF EACH DAY.

**Outside Lane Closure Operation on a Four-Lane Roadway (Figure TTC-16.1)**



**Lane Closure on a Two-Lane Roadway Using Flaggers (Figure TTC-23.1)**



**Standards:**

1. On divided highways having a median wider than 8', right and left sign assemblies shall be required.
2. Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.
3. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. For Limited Access highways a minimum of 1000' is desired.
4. All vehicles, equipment, workers, and their activities should be restricted to one side of the pavement.

**Standard:**

5. Taper Length (L) and Channelizing Device Spacing shall be:

Speed Limit (mph)	Taper Length (L)			
	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840

Location	Channelizing Device Spacing	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'
Construction Access*	80'	120'

\* Spacing may be increased to this distance, but shall not exceed one access per 1/4 mile.

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

6. An arrow board shall be used when a lane is closed. When more than one lane is closed, a separate arrow board shall be shown for each closed lane (see Figure TTC-18).

7. The buffer space length shall be shown in Table 6H-3 on Page 6H-5 for the posted speed limit.

8. A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or at least one high intensity amber rotating, flashing, or oscillating light shall be parked 80'-120' in advance of the first work crew. When the posted speed limit is 45 mph or greater, a truck-mounted attenuator shall be used.

9. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights but can be used to supplement the amber rotating, flashing, or oscillating lights.

10. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed as needed.

1: Revision 1 - 4/1/2015

**Guidance:**

1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800' where the posted speed limit is greater than 45 mph.
2. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the flagger station and transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. Generally speaking, motorists should have a clear line of sight from the graphic flagger symbol sign to the flagger.

**Option:**

3. Where Right-of-Way or geometric conditions prevent the use of 48" x 48" signs, 36" x 36" signs may be used.

**Standard:**

4. Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before approaching traffic (see Table 6H-3 on Page 6H-5).
5. All flaggers shall be state certified and have their certification card in their possession when performing flagging duties (see Section 6E.01, Qualifications for Flaggers).
6. Cone spacing shall be based on the posted speed and the values in Table 6H-4 on Page 6H-6.
7. A shadow vehicle with at least one high intensity amber rotating, flashing, or oscillating light shall be parked 80'-120' in advance of the first work crew.

**Option:**

8. A supplemental flagger may be required in this area to give advance warning of the operation ahead by slowing approaching traffic prior to reaching the flagger station or queued traffic.

**Guidance:**

9. If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign then the signs, and if used the portable temporary rumble strips (PTRS), should be readjusted at greater distances.
10. When a highway-rail crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail crossing (see Figure TTC-56 for additional information on highway-rail crossings).

**Standard:**

11. At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.08).

**Option:**

12. Cones may be eliminated when using a pilot vehicle operation or when the total roadway width is 20 feet or less.
13. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).

**Standard:**

14. When approved for use, three portable temporary rumble (PTRS) strips shall be installed across the entire travel lane adjacent to the BE PREPARED TO STOP (W3-4) sign. The portable temporary rumble strips shall be monitored and adjusted as necessary during the work shift to ensure proper placement on the roadway. When the PTRS are installed, the RUMBLE STRIPS AHEAD (W20-V26) sign shall also be utilized.

Posted Speed	0 - 35 mph	36 - 55 mph
PTRS Spacing (Center to Center)	5 Feet	8 Feet

**GENERAL**

1. METHOD "A" PIPE BEDDING SHALL BE USED FOR ALL TYPES OF PIPE CULVERTS WITHIN THE APPLICABLE RANGE OF COVER RANGES NOTED IN THE STANDARD P1-TABLES UNLESS OTHERWISE NOTED ON THE PLANS.
2. H = HEIGHT OF COVER MEASURED FROM TOP OF CULVERT TO FINISHED GRADE.
3. b = EXCAVATION DEPTH AS SHOWN ON PLANS OR TO FIRM BEARING SOIL.

**CIRCULAR PIPE**

1. D = OUTSIDE DIAMETER OF PIPE.
2. d = INSIDE DIAMETER OF PIPE.
3. X = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF THE PIPE.
  - X = 12" WHERE S<sub>2</sub> IS LESS THAN 36"
  - X = 18" WHERE S<sub>2</sub> IS 36" AND GREATER.
4. WHERE DIRECTED BY THE ENGINEER, BEDDING MATERIAL MAY BE ELIMINATED FOR NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE (EXCEPT PLASTIC PIPE) 30" AND LESS IN DIAMETER WITH HEIGHT OF COVER 15' OR LESS.
5. REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL MATERIAL FOR ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE (EXCEPT PLASTIC PIPE) 30" AND LESS IN DIAMETER WITH HEIGHT OF COVER 15' OR LESS.
6. BEDDING MATERIAL AND CLASS I BACKFILL MATERIAL MAY BE ELIMINATED FOR SHOULDER SLOT BUILT (S-B) OUTLET PIPES INSTALLATIONS.

**ELLIPTICAL PIPE**

1. S<sub>1</sub> = OUTSIDE SPAN DIMENSION OF PIPE.
2. S<sub>2</sub> = INSIDE SPAN DIMENSION OF PIPE.
3. R = OUTSIDE RISE DIMENSION OF PIPE.
4. X = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF THE PIPE.
  - X = 12" WHERE S<sub>2</sub> IS LESS THAN 36"
  - X = 18" WHERE S<sub>2</sub> IS 36" AND GREATER.
5. WHERE DIRECTED BY THE ENGINEER, BEDDING MATERIAL MAY BE ELIMINATED FOR NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE WHERE S<sub>2</sub> IS 36" OR LESS AND HEIGHT OF COVER 15' OR LESS.
6. REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL MATERIAL FOR ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE WHERE S<sub>2</sub> IS 36" OR LESS AND HEIGHT OF COVER 15' OR LESS.

**PIPE ARCH**

1. S = SPAN DIMENSION OF PIPE.
2. R = RISE DIMENSION OF PIPE.
3. b = SEE P1-TABLE FOR APPLICABLE PIPE MATERIAL.
4. X = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF THE PIPE.
  - X = 12" WHERE S<sub>2</sub> IS LESS THAN 36"
  - X = 18" WHERE S<sub>2</sub> IS 36" AND GREATER.
5. WHERE DIRECTED BY THE ENGINEER, BEDDING MATERIAL MAY BE ELIMINATED FOR NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE WHERE S<sub>2</sub> IS 36" OR LESS AND HEIGHT OF COVER 15' OR LESS.
6. REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL MATERIAL FOR ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE WHERE S<sub>2</sub> IS 36" OR LESS AND HEIGHT OF COVER 15' OR LESS.

**INSTALLATION OF PIPE CULVERTS & STORM SEWERS GENERAL NOTES**

VDOT ROAD AND BRIDGE STANDARDS  
REVISION DATE SHEET 1 OF 1  
107.00

**NO PROJECTION OF PIPE ABOVE GROUND LINE**

FOUNDATION	PIPE PROJECTION ABOVE GROUND LINE
NORMAL EARTH FOUNDATION	PIPE PROJECTION ABOVE GROUND LINE
ROCK FOUNDATION	PIPE PROJECTION ABOVE GROUND LINE
FOUNDATION SOFT, YIELDING, OR OTHERWISE UNSUITABLE MATERIAL	PIPE PROJECTION ABOVE GROUND LINE

**PIPE PROJECTION ABOVE GROUND LINE**

FOUNDATION	PIPE PROJECTION ABOVE GROUND LINE
NORMAL EARTH FOUNDATION	PIPE PROJECTION ABOVE GROUND LINE
ROCK FOUNDATION	PIPE PROJECTION ABOVE GROUND LINE
FOUNDATION SOFT, YIELDING, OR OTHERWISE UNSUITABLE MATERIAL	PIPE PROJECTION ABOVE GROUND LINE

**NOTES:**

1. FOR GENERAL NOTES ON PIPE BEDDING, SEE INSTALLATION OF PIPE CULVERTS AND STORM SEWERS GENERAL NOTES ON SHEET 107.00.
2. CLASS I BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
3. FOR PLASTIC PIPE CLASS I BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
4. FOR ALL OTHER PIPE REGULAR BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
5. REGULAR BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
6. CRUSHED GLASS CONFORMING TO THE SIZE REQUIREMENTS FOR CRUSHER RUN AGGREGATE SIZE 25 AND 26 MAY BE USED IN PLACE OF CLASS I BACKFILL.

VDOT ROAD AND BRIDGE STANDARDS  
SHEET 1 OF 4 REVISION DATE 07/12  
107.01

**INSTALL. OF PIPE CULVERTS AND STORM SEWERS CIRC. PIPE BEDDING AND BACKFILL - METHOD "A"**

VDOT ROAD AND BRIDGE STANDARDS  
SHEET 1 OF 1  
107.00

**TYPICAL TRAFFIC CONTROL FLAGGING OPERATION FOUR-LANE HIGHWAY**  
NOT TO SCALE  
(REFERENCE: VAWAMP FIGURE TTC-16.1)

**TYPICAL TRAFFIC CONTROL FLAGGING OPERATION TWO-LANE ROAD**  
NOT TO SCALE  
(REFERENCE: VAWAMP FIGURE TTC-23.1)

OFFICE REVIEW SUMMARY  
PROJECT MANAGER: WKW 100% FINAL  
PROJECT Q/A: CJC 100% FINAL  
PROJECT ENGINEER: BA 100% FINAL  
DRAFTSMAN: AJW 100% FINAL

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DEPARTMENT OF PUBLIC WORKS  
HOLLYWOOD SANITARY SEWER REHABILITATION - PHASE 1  
STORM SEWER NOTES AND DETAIL AND  
TRAFFIC CONTROL NOTES AND DETAILS  
COUNTY OF YORK, VIRGINIA

DATE: \_\_\_\_\_  
PROJECT REVISIONS: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_  
OCTOBER 2016  
SHEET  
G-6  
SHEET 7 OF 15