

DRAINAGE DESCRIPTION SHEET

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

REVISED	FHWA REGION	STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	3	VA.		221	0221-080-103, C-503	6-B

SHEET 6

- 46A 1 STD. DI-2B REQD.
L-8' H-5.8'
INV. 1091.00
- 46 1 STD. DI-2B REQD.
L-10' H-6.5'
INV. 1090.30
- 47A 1 STD. DI-2B REQD.
L-10' H-6.8'
INV. 1088.50
- 6-2 1 STD. DI-1 REQD.
INV. 1090.40 H-4.0'
TOP ELEV. 1094.40
- 6-1 1 STD. DI-1 REQD.
INV. 1088.40 H-5.4'
TOP ELEV. 1093.8
- 47 1 STD. DI-2E MOD. REQD.
SEE SH. 2X FOR DETAILS
L-10' H-9.7'
INV. 1084.40 STD. IS-1 REQD.
- 7 1 STD. DI-3C REQD.
L-8' H-3.9'
INV. 1088.9
- 7A 1 STD. DI-2B REQD.
L-8' H-8.0'
INV. 1085.90 STD. IS-1 REQD.
- 50A 10 LF. STD. MH-1 OR 2 REQD.
INV. 1083.30 H-10.0'
1 STD. MH-1 FRAME AND COVER REQD.
- 48 1 STD. DI-2B REQD.
L-6' H-3.90
INV. 1090.30
- 49 1 STD. DI-2B REQD.
L-6' H-4.30'
INV. 1089.80
- 50 1 STD. DI-2E MOD. REQD.
SEE SH. 2X FOR DETAILS
L-10' H-9.50'
INV. 1082.5
- 46A-46 63'-15" CONC. PIPE REQD.
INV. (IN) 1091.00 (OUT) 1090.40
COVER 4.0'
PROP. PIPE TO BE UNDER 2" WATER LINE WITH 2.83' CLEARANCE
PROP. PIPE TO BE UNDER 2" GAS LINE WITH 1.30' CLEARANCE
PROP. PIPE TO BE UNDER 12" C.I. WATER LINE WITH 0.20' CLEARANCE
PROP. PIPE TO BE UNDER TELE. DUCT WITH APPROX. 0.74' CLEARANCE
- 46-47A 200'-24" CONC. PIPE REQD.
INV. (IN) 1090.30 (OUT) 1088.60
COVER 4.0'
- 6-2-47A 11'-15" CONC. PIPE REQD.
INV. (IN) 1090.40 (OUT) 1090.30
COVER 2.50'
- 47A-47 161'-24" CONC. PIPE REQD.
1-15" X 24" CONC. TEE JOINT REQD.
INV. (IN) 1088.50 (OUT) 1087.10
COVER 4.50'

- 6-1-6-3 10'-15" CONC. PIPE REQD.
(CONNECT TO 15" X 24" TEE JOINT)
INV. (IN) 1088.40 (OUT) 1088.30 :
COVER 4.0'
- 7-7A 36'-15" CONC. PIPE REQD.
INV. (IN) 1088.90 (OUT) 1088.60
COVER 2.4'
- 7A-47 66'-18" CONC. PIPE REQD.
INV. (IN) 1085.90 (OUT) 1084.50
COVER 6'
PIPE TO BE UNDER 6" GAS LINE WITH 3.73' CLEARANCE
PIPE TO BE UNDER 8" CONC. SAN. SEWER WITH 0.08' CLEARANCE
PIPE TO BE UNDER 12" C.I. WATER LINE WITH 1.0' CLEARANCE
PIPE TO BE UNDER TELE. DUCT WITH APPROX. 1.37' CLEARANCE
- 47-50A 70'-30" CONC. PIPE REQD.
INV. (IN) 1084.40 (OUT) 1083.60
COVER 7.0'
PIPE TO BE UNDER 8" SAN. SEWER WITH 0.08' CLEARANCE
- 48A-48 33'-15" CONC. PIPE REQD.
1-15" STD. ES-1 REQD.
INV. (IN) 1094.00 (OUT) 1090.40
MIN. COVER 10'
END SECTION AND PIPE TO BE OVER 8" CONC. SEWER LINE WITH 3.55' CLEARANCE
- 49A-49 30'-18" CONC. PIPE REQD.
1-18" STD. ES-1 REQD.
INV. (IN) 1092.50 (OUT) 1090.10
MIN. COVER 10'
- 48-49 32'-15" CONC. PIPE REQD.
INV. (IN) 1090.30 (OUT) 1089.90
COVER 2.5'
DROP INLET *48 TO BE OVER 8" SAN. SEWER WITH 1.03' CLEARANCE
- 49-50A 47'-24" CONC. PIPE REQD.
INV. (IN) 1089.80 (OUT) 1089.50
COVER 2'
- 50A-50 134'-36" CONC. PIPE REQD.
INV. (IN) 1083.30 (OUT) 1082.60
COVER 6.0'
- 50-45A 111'-36" CONC. PIPE REQD.
INV. (IN) 1082.50 (OUT) 1082.00
COVER 6.0'
8" SAN. SEWER AND MANHOLE ARE TO BE ADJUSTED BY OTHERS

SHEET 7

- 55A-55 12'-15" CONC. PIPE REQD.
1-15" STD. ES-1 REQD.
INV. (IN) 1094.00 (OUT) 1093.00
1" MIN. COVER
- 55 1 STD. DI-3B REQD.
L-6' H-3.3'
INV. 1092.40 STD. IS-1 REQD.
- 55-54 42'-15" CONC. PIPE REQD.
INV. (IN) 1092.40 (OUT) 1092.20
1" MIN. COVER
PIPE TO BE OVER 8" SAN. SEWER WITH 0.89' CLEARANCE
PIPE TO BE OVER 6" C.I. WATER LINE WITH 0.09' CLEARANCE

- 54A-54 36'-30" CONC. PIPE REQD.
1-30" STD. ES-1 REQD.
INV. (IN) 1093.50 (OUT) 1091.60
1" MIN. COVER
END SECTION AND PIPE TO BE OVER 8" CONC. SAN. SEWER WITH APPROX. 1' CLEARANCE
- 52 1 STD. DI-2B REQD.
L-14' H-4.70'
INV. 1092.2 STD. IS-1 REQD.
- 52-53 121'-18" CONC. PIPE REQD.
INV. (IN) 1092.20 (OUT) 1090.00
COVER 3.0'
- 53 1 STD. DI-2E REQD.
L-8' H-6.1'
INV. 1089.60 STD. IS-1 REQD.
- 53-13 63'-36" CONC. PIPE REQD.
INV. (IN) 1089.60 (OUT) 1087.20
COVER 2.3'
PIPE TO BE UNDER TELE. DUCT WITH APPROX. 1.53' CLEARANCE
PIPE TO BE UNDER 12" C.I. WATER LINE WITH 0.18' CLEARANCE
PIPE TO BE UNDER 2" GAS LINE WITH 1.28' CLEARANCE
PIPE TO BE UNDER 2" WATER LINE WITH 2.88' CLEARANCE
PIPE TO BE OVER 8" CONC. SAN. SEWER LINE WITH 0.26' CLEARANCE
- 54 1 STD. DI-4B REQD.
L-6' H-5.6'
INV. 1090.20 STD. IS-1 REQD.
- 54-53 38'-36" CONC. PIPE REQD.
INV. (IN) 1090.20 (OUT) 1090.00
COVER 2.2'
- 51 1 STD. DI-2B REQD.
L-12' H-3.9'
INV. 1093.80
4" PLASTIC ELECTRIC CONDUIT TO BE ADJUSTED BY OTHERS
- 51-52 139'-15" CONC. PIPE REQD.
INV. (IN) 1093.80 (OUT) 1092.30
COVER 2.0'
- 7-1 1 STD. DI-1 REQD.
INV. 1092.4 H-3.9'
GRATE ELEV. 1096.30
- 7-1-52 9'-15" CONC. PIPE REQD.
INV. (IN) 1092.40 (OUT) 1092.30
COVER 2.5'
- 7-2 1 STD. DI-7 REQD.
TYPE III GRATE "A" REQD.
INV. 1092.0 H-4.2'
GRATE ELEV. 1096.20
- 7-2-13 110'-15" CONC. PIPE REQD.
1-15" 45" CONC. BEND JOINT REQD.
INV. (IN) 1092.00 (OUT) 1091.00
COVER 2.5'
PLACE AS MUCH PIPE AS POSSIBLE UNDER PROP. CURB AND GUTTER
- 13 1 STD. DI-2E MOD. REQD.
SEE SH. 2X FOR DETAILS
L-16' H-8.9'
INV. 1087.10 STD. IS-1 REQD.

- 13-14 271'-36" CONC. PIPE REQD.
INV. (IN) 1087.10 (OUT) 1083.30
COVER 5.0'
PIPE TO BE UNDER 4" C.I. WATER LINE WITH 3.76' CLEARANCE
3/4" TELEPHONE CABLE TO BE ADJUSTED BY OTHERS
- 8-1 1 STD. DI-1 REQD.
INV. 1086.50 H-5.9'
GRATE ELEV. 1092.40
- 8-1-14 86'-15" CONC. PIPE REQD.
INV. (IN) 1086.50 (OUT) 1086.00
COVER 3.9'
PIPE TO BE OVER 8" CONC. SAN. SEWER WITH 0.36' CLEARANCE
PIPE TO BE UNDER 2" WATER LINE WITH 2.76' CLEARANCE
PIPE TO BE UNDER 2" GAS LINE WITH 1.37' CLEARANCE
PIPE TO BE UNDER TELE. DUCT WITH APPROX. 1.87' CLEARANCE
PIPE TO BE UNDER 12" C.I. WATER LINE WITH 0.37' CLEARANCE
- 14 1 STD. DI-2E MOD. REQD.
SEE SH. 2X FOR DETAILS
L-6' H-9.0'
INV. 1083.20 STD. IS-1 REQD.
3/4" TELEPHONE CABLE TO BE ADJUSTED BY OTHERS
- 8-2 1 STD. DI-7 REQD.
TYPE III GRATE "A" REQD.
INV. 1088.20 H-4.2'
GRATE ELEV. 1092.40
- 8-2-14 14'-15" CONC. PIPE REQD.
INV. (IN) 1088.20 (OUT) 1087.90
COVER 2.5'
- 14-15 253'-36" CONC. PIPE REQD.
INV. (IN) 1083.20 (OUT) 1079.30
COVER 5.3'
PIPE TO BE INSTALLED SO AS NOT TO DISTURB EXIST. SAN. SEWER MANHOLE RT. STA. 50+88.1405' MIN. RADIUS WITH OPEN JOINT USING 8" PIPE JOINT LENGTHS JOINTS ARE TO BE OPENED A MAX. OF 25% OF THE SPIGOT OR TONGUE LENGTH.
PIPE TO BE UNDER 4" SAN. SEWER WITH 0.58' CLEARANCE.
PIPE TO BE UNDER 6" SAN. SEWER WITH 0.18' CLEARANCE.
- 8-3 1 STD. DI-1 REQD.
INV. 1083.50 H-3.0'
GRATE ELEV. 1086.50
- 8-3-56 16'-15" CONC. PIPE REQD.
INV. (IN) 1083.50 (OUT) 1083.30
COVER 1.5'
- 56 1 STD. DI-3B REQD.
L-16' H-4.2'
INV. 1083.00
- 56-15 64'-15" CONC. PIPE REQD.
INV. (IN) 1083.00 (OUT) 1080.60
COVER 2.2'
PIPE TO BE OVER 8" CONC. SAN. SEWER WITH 0.42' CLEARANCE
PIPE TO BE UNDER 2" WATER LINE WITH 1.58' CLEARANCE

PIPE TO BE UNDER 12" C.I. WATER LINE WITH 0.20' CLEARANCE
PIPE TO BE UNDER 2" GAS LINE WITH 1.32' CLEARANCE
PIPE TO BE UNDER TELE. DUCT WITH APPROX. 0.36' CLEARANCE

- 15 1 STD. DI-2E MOD. REQD.
SEE SH. 2X FOR DETAILS
L-16' H-8.0'
INV. 1079.20 STD. IS-1 REQD.

- 15-16 175'-36" CONC. PIPE REQD.
INV. (IN) 1079.20 (OUT) 1076.10
COVER 4.2'

- 16 1 STD. DI-2E REQD.
L-16' H-7.6'
INV. 1076.00 STD. IS-1 REQD.

- 16-17 122'-36" CONC. PIPE REQD.
INV. (IN) 1076.00 (OUT) 1073.70
COVER 3.8'
PIPE TO BE INSTALLED UNDER PROP. CURB AND GUTTER AS MUCH AS POSSIBLE BEFORE CONNECTING TO DI #17 (405' MIN. RADIUS WITH OPEN JOINT USING 8" PIPE JOINT LENGTHS) JOINTS ARE TO BE OPENED A MAX. OF 25% OF THE SPIGOT OR TONGUE LENGTH.

- SHEET 9
57 1 STD. DI-3B REQD.
L-14' H-3.9'
INV. 1077.9

- 17 1 STD. DI-4E REQD.
L-14' H-8.0'
INV. 1073.4
STD. IS-1 REQD.

- 17-19B 52'-42" CONC. PIPE REQD.
4 COVER
CONNECT TO EXIST. 42" CONC. PIPE INV. (IN) 1073.4 (OUT) 1072.8 :
REMOVE EXIST. DI-7 *19A