LEGEND

NOTE:

EXISTING FACILITIES ARE SHOWN WITH SCREENED LINES. NEW FACILITIES WITH SOLID LINES.

WOODS LINE, CLEARING LIMITS

TREE

HEDGE, ROW OF BUSHES

RAILROAD (SMALL SCALE) (LARGE SCALE)

FENCE

GUARDRAIL

ROADS, STREETS OR DRIVEWAYS

SURVEY POINT (PI)

SURVEY MONUMENT

EXISTING SANITARY SEWER MANHOLE (S)

EXISTING STORM DRAIN MANHOLE (D)

EXISTING WATER VALVE MANHOLE (W)

POWER POLE AND GUY ANCHOR

CATCH BASIN

FIRE HYDRANT

UTILITY CABLE PEDESTAL

WATER OR GAS VALVE

WATER LINE — W — W —

SANITARY SEWER LINE — S — S —

STORM SEWER LINE — ST — ST —

UNDERGROUND FIBER OPTICS — UFO — UFO —

UNDERGROUND TELEPHONE LINE — UT — UT —

UNDERGROUND ELECTRICAL LINE — UE — UGE —

GAS LINE — G — G —

OVERHEAD ELECTRICAL LINE — OHE — OHE —

UNDERGROUND CABLE TV LINE — UCATV — UCATV —

PROPERTY LINE — PL —

RIGHT-OF-WAY LINE — R/W —

PERMANENT EASEMENT LINE — P/E —

TEMPORARY EASEMENT LINE — T/E —

HOUSE, BUILDING, OR MOBILE HOME

GRADE CONTOUR LINE — 900 —

TEST HOLE AND NUMBER (SOIL BORING) B-1

WATER LINE(EDGE OF RIVER) (SEE GENERAL NOTE 9)

EARTH OR GRADE

GRANULAR FILL OR GRAVEL

PRECAST CONCRETE

NEW CONCRETE

CONCRETE FILL

RIP-RAP

BRICK

BLOCK

SAND

METAL (LARGE SCALE)

METAL (SMALL SCALE)

GATE VALVE OR SHUTOFF VALVE

CHECK VALVE

MECHANICAL COUPLING

BUTTERFLY VALVE

SECTION No. OR DETAIL LETTER — 2 / C41

DRAWING No. ON WHICH SECTION OR DETAIL APPEARS, OR WHERE SECTION IS CUT OR DETAIL IS SHOWN.

LINE SIZE CHANGE (REDUCER) 4" 2"

BALL VALVE

CHECK VALVE

CHLORINE INSTITUTE VALVE

UNION

BUTTERFLY VALVE BFV

GATE VALVE GV

AIR RELEASE VALVE ARV

BLOW-OFF BO

ABBREVIATIONS

AB	ANCHOR BOLT
AGC	AGGREGATE BASE COURSE
AC	ACRES
AHFH	ARROWHEAD FIRE HYDRANT
ALT	ALTERNATE(IVE)
ALUM	ALUMINUM,ALUM
ANCH	ANCHOR
&	AND
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ARV	AIR RELEASE VALVE
ASSY	ASSEMBLY
AUTO	AUTOMATIC
AVE	AVENUE
AWWA	AMERICAN WATER WORKS ASSOC.
BC	BOLT CIRCLE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
B/L	BASELINE
BLDG	BUILDING
BLK	BLOCK
BM	BENCHMARK
BO	BLOW-OFF
BOL	BEGINNING OF LINE
BRK	BRICK
BS	BOTH SIDES
BSMT	BASEMENT
BWF	BARBED WIRE FENCE
C&G	CURB AND GUTTER
CABC	COURSE AGGREGATE BASE COURSE
CB	CATCH BASIN
CCP	CONCRETE CULVERT PIPE
CFM	CUBIC FEET PER MINUTE
CHIS	CHISELED
CHKD	CHECKERED
CI	CAST IRON
CIP	CAST IRON PIPE
℄	CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CM	CONCRETE MONUMENT
CO	CLEAN OUT, COMPANY
COE	CORPS OF ENGINEERS
COL	COLUMN
CONC	CONCRETE, CONCENTRIC
CONN	CONNECT(ION)
CONST	CONSTRUCTION
CONT	CONTINUOUS
COR	CORNER
CORP	CORPORATION
CPLG	COUPLING
CRS	COURSES
CS	CARBON STEEL
CSJ	CONSTRUCTION JOINT
CTR(S)	CENTER(S)
CU	CUBIC
CV	CHECK VALVE
CY	CUBIC YARD
D	DOOR, DRAIN
DBL	DOUBLE
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA,ø	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DISCH	DISCHARGE
DN	DOWN
DR	DRIVE
DWG	DRAWING
DWL	DOWEL
E	EAST
EA	EACH
ECC	ECCENTRIC
EF	EACH FACE
EFF	EFFLUENT
EL	ELEVATION
ENT	ENTRANCE
EOL	END OF LINE
EOP	EDGE OFF PAVEMENT
EQUIP	EQUIPMENT
EST	ESTIMATED
EW	EACH WAY
EWEF	EACH WAY EACH FACE
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR, EXTENSION, EXTEND
FB	FULL BEVEL
FCA	FLANGED COUPLING ADAPTER
FCV	FLOW CONTROL VALVE
FCV	FLOW CONTROL VALVE
FD	FLOOR DRAIN
FE	FLOW ELEMENT
FEC	FIRE EXTINGUISHER CABINET
FES	FLARED END SECTION
FH	FIRE HYDRANT
FIN	FINISH, FINAL
&	FINISHED FLOOR
F/L	FLOOR ELEVATION, FLOW LINE
FLG	FLANGE
FLEX	FLEXIBLE
FLR	FLOOR
FM	FORCE MAIN, FLOWMETER
FS	FLOW SWITCH
FT	FEET, FLOW TUBE
FTG	FOOTING
G	GAS, GRAVEL
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
GR	GRADE
GV	GATE VALVE
H	HIGH (HEIGHT)
HB	HALF BEVEL
HF	HOSE FAUCET
HM	HOLLOW METAL
HMC	HARNESSED MECHANICAL COUPLING
HMJ	HARNESSED MECHANICAL JOINT
HORIZ	HORIZONTAL
HV	HOSE VALVE
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HW	HANDWHEEL
HWL	HIGH WATER LEVEL
HWY	HIGHWAY
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCHES
INT	INTERSECTION, INTERCEPTOR
INV	INVERT
IP	IRON PIN
IPS	IRON PIPE SIZE
JB	JUNCTION BOX
JT	JOINT
L	LONG, LOUVER
LA	LINE AHEAD
LB	LINE BACK
LF	LINEAR FEET
LN	LANE
LT	LEFT
LWL	LOW WATER LEVEL
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MC	MECHANICAL COUPLING
MET	METAL
MFR(S)	MANUFACTURER(S)
MG	MILLION GALLONS
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MON	MONUMENT
MTD	MOUNTED
MTL	MATERIAL
MV	MUD VALVE
N	NORTH
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NORMALLY OPENED
NO.,#	NUMBER(S)
NOM	NOMINAL
NORM	NORMAL
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
ORD	OVERFLOW ROOF DRAIN
ORDL	OVERFLOW ROOF DRAIN LEADER
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PLAIN END
P/E	PERMANENT EASEMENT
PED	PEDESTAL, PEDESTRIAN
PI	POINT OF INTERSECTION
PL	PLATE
PP	POWER POLE
PRV	POWER ROOF VENTILATOR, PRESSURE REDUCING VALVE
PS	POLYMER SOLUTION, PIPE SUPPORT, PRESSURE SWITCH
PSF	PIPE SUPPORT FIXED
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PVMT	PAVEMENT
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
R	RISER, RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN, ROAD
RED	REDUCER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION
RM	ROOM, REFERENCE MONUMENT
RJ	RESTRAINED JOINT
RKE	ROANOKE
RMC	RAISED MORTAR COATING
RMH	ROANOKE MEMORIAL HOSPITAL
ROW, R/W	RIGHT-OF-WAY
RR	RAILROAD, ROANOKE RIVER
RRFRP	ROANOKE RIVER FLOOD REDUCTION PROJECT
R/R	RAILROAD
RT	RIGHT
S	SOUTH
SAN SWR	SANITARY SEWER
SCH	SCHEDULE
SDI	STORM DRAIN INLET
SE	SOUTHEAST
SECT	SECTION
SF	SQUARE FEET
SH	SHEET
SIM	SIMILAR
SP	STEEL PIPE
SPK	SPIKE
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
ST	STREET, STORM SEWER
STA	STATION
STD	STANDARD
STL	STEEL
STR	STRUCTURAL
SUSP	SUSPENDED
SV	SHUTOFF VALVE
SW	SOUTHWEST
SWD	SIDE WATER DEPTH
SY	SQUARD YARD
T	TREAD, TANGENT, TELEPHONE
T&B	TOP AND BOTTOM
TBM	TEMPORARY BENCHMARK
TCP	TERRA COTTA PIPE
T/E	TEMPORARY EASEMENT
THK	THICK(NESS)
TOC	TOP OF CURB
TOS	TOP OF STRUCTURE, TOP OF STEEL
TOW	TOP OF WALL
TP	TELEPHONE PEDESTAL (POLE)
TPP&S	TP PARKER & SON
TS&V	TAPPING SLEEVE AND VALVE
TYP	TYPICAL
TV	TELEVISION
U/G	UNDERGROUND
UR	URINAL
VC	VITRIFIED CLAY
V/ARV	VACUUM & AIR RELEASE VALVE
VM	VALVE MARKER
VERT	VERTICAL
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WIDE(TH), WEST, WINDOW
W/	WITH
WL	WATER LINE, WATER LEVEL
WM	WATER METER
WV	WATER VALVE
WWTP	WASTE WATER TREATMENT PLANT
YD	YARD
YH	YARD HYDRANT

BENCHMARK DATA

BENCHMARK	ELEVATION	DESCRIPTION
TBM #31	918.70	R/R SPK, SET IN APCO POLE #278-6161, 15' +/- RT. OF C.O.E. B/L STA 386+44.
TBM #43	923.73	R/R SPK, SET IN APCO POLE #278-4670, 6' +/- LT. OF C.O.E. B/L STA 356+85.
TBM #28	921.41	R/R SPK, SET IN APCO TRANS. POLE #278-3080 29' +/- RT. OF C.O.E. B/L STA 343+39.
* TBM #28	926.78	R/R/ SPK, SET IN APCO POLE #278-3687, 54' +/- RT. OF C.O.E. B/L STA 324+60.
* TBM #27A	938.68	R/R SPK, SET IN APCO LIGHT POLE #278-3572, 96' +/- RT. OF C.O.E. B/L STA 317+40.
* TPP&S #7	933.96	ALUM. DISC MON. STAMPED T.P.P.&S. #7, ON S.E. SIDE OF HAMILTON TERRACE, 22' +/- W. OF DBL. STANDPIPE ON R.M.H. PARKING GARAGE.
* TPP&S #8	935.47	DISC MON. STAMPED T.P.P.&S. #8, IN SIDEWALK OF ONEWAY BRIDGE OVER RKE. RIVER @ R.M.H.
* RM #67	938.48	STANDARD DISC ON S.W. WINGWALL OF R/R TRESTLE OVER RKE. RIVER @ JEFFERSON ST.
* TBM #27	927.67	R/R SPK, SET IN APCO POLE #278-3624, 86.5' +/- RT. OF C.O.E. B/L STA 307+48.
TPP&S #9	934.49	DISC MON. STAMPED T.P.P.&S. #9, IN SIDEWALK OF PED. BRIDGE OVER RKE. RIVER @ VICTORY STADIUM OFF WILEY DR.
TBM #26	931.79	R/R SPK, SET IN APCO POLE #278-2506, 42' +/- RT. OF C.O.E. B/L STA 297+39.
TBM #25	927.71	R/R SPK, SET IN 48" SYCAMORE, 11' +/- LT. OF C.O.E. B/L STA 283+79.
TBM #24	928.45	R/R SPK, SET IN APCO LIGHT POLE #278-2150, 18' LT. OF C.O.E. B/L STA 267+22.
TBM #23	928.67	R/R SPK, SET IN APCO LIGHT POLE #278-2153, 6' +/- LT. OF C.O.E. B/L STA 260+89.
TBM #22	929.29	R/R SPK, SET IN APCO LIGHT POLE #278-712, 48' +/- LT. OF C.O.E. B/L STA 255+84.
TBM #21	936.35	CHIS. SQUARE ON S.E. COR. OF EXISTING CONC. STRUCTURE, 18' +/- LT. OF C.O.E. B/L STA 238+58.
TBM #20	940.87	BRIDGE SPK, SET IN LIGHT POLE (NO NUMBER) 42' +/- RT. OF C.O.E. B/L STA 228+70.
TPP&S #10	940.50	ALUM. DISC MON. STAMPED T.P.P.&S. #10 ON S. SIDE OF WILEY DR., 83.5' +/- S. OF ROCK RESTROOM BLDG. IN WASENA PARK.
TBM #19	943.66	R/R SPK, SET IN 22" WHITE OAK, 32' +/- LT. OF C.O.E. B/L STA 219+43.
TPP&S #11	944.98	ALUM. DISC MON. STAMPED T.P.P.&S. #11 ON E. SIDE OF WILEY DR., 190' +/- N. OF INT. OF WILEY DR. & 12TH ST. @ WASENA PARK.
BM	930.83	STANDARD BRASS DISC (RKE. CITY) ON COR. OF CONC. SLAB @ RKE. RIVER SEWER CROSSING NEAR HANNAH TRAILER PARK.
TBM #18	949.64	CHIS. SQUARE SET IN S.W. CORNER OF DROP INLET, 115' +/- OF C.O.E. B/L STA 203+46.
* TBM #44	967.38	A.H.F.H, ON E. SIDE OF MIDVALE ST., 40' +/- N. OF INT. OF SPOTSWOOD AVE. & MIDVALE ST., NEAR HANNAH TRAILER PARK.
* TBM #45	975.29	A.H.F.H. ON E. SIDE OF HANNAH CIRCLE, 30' +/- N.E. OF INT. OF HANNAH CIRCLE & MIDVALE ST., NEAR HANNAH TRAILER PARK.
TPP&S #12	949.58	ALUM. DISC MON. STAMPED T.P.P.&S. #12, ON THE S. SIDE OF MEMORIAL AVE. BRIDGE (UNDERNEATH) 84' +/- E. OF R/R TRACKS.
TBM #16	956.88	R/R SPK, SET IN 10" FORKED LOCUST, 2' +/- LT. OF C.O.E. B/L STA 183+54.
TBM #48	939.71	CHIS. SQUARE SET ON N. CORNER OF CONC. INTERCEPTOR STRUCTURE, 30' +/- LT. OF C.O.E. B/L STA 177+78.
TBM #14	948.95	R/R SPK, SET IN 24" BASSWOOD, 13' +/- RT. OF C.O.E. B/L STA 161+99.
TBM #13	954.43	R/R SPK, SET IN 26" SYCAMORE, 18' +/- LT. OF C.O.E. B/L STA 147+58.
TPP&S #14	956.87	ALUM. DISC MON. STAMPED T.P.P.&S. #14, ON E. SIDE OF BRIDGE ST., 115' +/- S. OF BRIDGE ST. BRIDGE OVER RKE. RIVER.
RM #208	957.96	TOP OF CURB @ G.W. COR. OF BRIDGE ST. BRIDGE OVER RKE. RIVER (NOTE: CURB IS DAMAGED @ THIS LOCATION).
TBM #12	959.83	CHIS. SQUARE FND. ON N.E. BRIDGE ABUT. OF BRIDGE ST. BRIDGE OVER RKE RIVER.
* TPP&S #15	965.72	ALUM. DISC MON. STAMPED T.P.P.&S. #15; ON THE E. SIDE OF BRIDGE ST., 150' +/- N. OF BRIDGE ST. BRIDGE OVER RKE. RIVER.
TBM #11	957.74	R/R SPK, SET IN R/R TELEGRAPH POLE, 8' +/- LT. OF C.O.E. B/L STA 134+02.
TBM #10	962.58	R/R SPK, SET IN R/R TELEGRAPH POLE, 97.5' LT. OF C.O.E. B/L STA 126+37.

BENCHMARK	ELEVATION	DESCRIPTION
RM #18A	908.92	R/R SPIKE IN APCO POLE #279-1175 APPROX. 60' +/- N.E. OF P.I. OF BENNINGTON ST. & RIVERSIDE RD.
RM #305	898.44	STANDARD DISC IN N.E. CORNER SQUARE CONC. MH ON S.E. BANK OF RKE. RIVER. WEST ON INT. OF RIVERSIDE TERRACE & BENNINGTON ST.
TBM #40	909.54	A.H.F.H. ON S. SIDE OF EDGERTON ST., APPROX. 50' +/- E. OF INT. OF BENNINGTON ST. & EDGERTON ST.
TPP&S #1	910.58	ALUM. DISC MON. STAMPED T.P.P.&S. #1, 36' +/- S. OF THE S.E. CORNER OF THE BENNINGTON ST. BRIDGE. NEAR THE ROANOKE WASTEWATER PLANT.
TPP&S #2	907.65	ALUM. DISC MON. STAMPED T.P.P & S. #2, IN MEDIAN OF BENNINGTON ST. 40' +/- S. OF ITS INT. W/GORDON AVE.
TBM #38	903.84	R/R SPIKE SET IN 7" DBL. PRRADISE, 28' +/-RT. OF C.O.E. B/L STA 462+23.
TBM #37	908.41	R/R SPIKE SET IN 12" DBL. ELM, 20' +/- RT. OF C.O.E. B/L STA 453+95.
TBM #41	908.72	"+" ON BOLT & NUT ON S. SIDE OF F.H., 50' +/- S.E. OF INT. OF PROGRESS DR. & INDUSTRY AVE., 7' +/- RT. OF C.O.E. B/L STA 434+96.
TBM #36	915.16	ALUM. DISC MON. STAMPED T.P.P.&S. #4 S. OF END CITY MAINT. OF PROGRESS DR., 21' +/- RT. OF C.O.E. B/L STA 412+75.
TPP&S #3	911.45	ALUM DISC MON. STAMPED T.P.P.&S. #3 W. SIDE OF BENNINGTON ST., 250' +/- N.W. OF 7-11 STORE.
TBM #35	914.82	R/R SPIKE SET IN APCO POLE #278-7719, 48' +/- LT. OF C.O.E. B/L STA 412+75.
TBM #34	919.78	R/R SPK, SET IN 26" SWEET GUM, 40' RT. OF C.O.E. B/L STA 401+83.
RM #36	924.14	CHIS. SQUARE ON S.W. COR. OF SIDEWALK OF 9TH ST. BRIDGE OVER ROANOKE RIVER.
TBM #33	917.19	R/R SPK, SET IN 21" FORKED WALNUT, 34' +/- LT. OF C.O.E. B/L STA 390+91.
TBM #32	922.10	R/R SPK, SET IN 10" PARADISE, 9' +/- LT. OF C.O.E. B/L STA 379+68.
TBM #9	967.99	R/R SPK, SET IN APCO LIGHT POLE #253-3521 80' +/- LT. OF C.O.E. B/L STA 113+81.
TBM #8	978.12	BRIDGE SPK, SET IN R/R TELEGRAPH POLE, 66' +/- LT. OF C.O.E. B/L STA 100+67.24.
TBM #7	976.08	R/R SPK, SET IN R/R ELECTRIC POLE, 60' +/- LT. OF C.O.E. B/L STA 82+07.
TBM #6	961.80	R/R SPK, SET IN APCO POLE #277-63, 76' +/- RT. OF C.O.E. B/L STA 74+37.
TBM #47	976.88	R/R SPK, SET IN APCO POLE #277-60, 50' +/- RT. OF C.O.E. B/L STA 67+74.
TBM #4	977.46	R/R SPK, SET IN 21" FORKED LOCUST, 21' +/- RT. OF C.O.E. B/L STA 53+76.
TBM #3	977.84	R/R SPK, SET IN R/R TELEGRAPH POLE, 5' +/- LT. OF C.O.E. B/L STA 43+42.
TBM #48	979.22	R/R SPK, SET IN R/R LIGHT POLE, 67' +/- LT. OF C.O.E. B/L STA 25+07.
TBM #1	979.62	R/R SPK, SET IN 10" DBL. ELM, 4' +/- LT. OF C.O.E. B/L STA 15+34.
TPP&S #16	983.65	ALUM. DISC MON. STAMPED T.P.P.&S. #16, ON THE E. SIDE OF AERIAL WAY DR., 90' +/- N. OF INT. OF AERIAL WAY DR. & MURRY RD. @ VALLEY RICH DAIRY.
TPP&S #17	977.56	ALUM. DISC MON. STAMPED T.P.P.&S. #17, ON S.W. SIDE OF AERIAL WAY DRIVE, 20' +/- S.W. OF INT. OF AERIAL WAY DR. & ENT. RD. TO GENERAL MEDICAL CORP.
RM #34	954.63	A.H.F.H. @ INT. OF RIVERLAND RD & PRIMROSE AVE. APPROX. 50' +/- S.W. OF SHED INT.
TBM #42	923.86	A.H.F.H. APPROX. 30' +/- WEST OF INT. OF PRIMROSE ST. & ARBUTUS AVE.
TPP&S #5	923.94	ALUM. DISC MON. STAMPED T.P.P.&S. #5, 33' +/- SOUTH OF THE INT. OF IVY ST. & ARBUTUS AVE.
TPP&S #6	917.28	ALUM. DISC MON. STAMPED T.P.P.&S. #6, 30' +/- N.W. OF THE INT. OF IVY ST. & ARBOR AVE.

* THESE BENCHMARKS ARE NOT INCLUDED ON DWGS C1 THRU C32 PLAN COVERAGE.

GENERAL NOTES:

1. PIPELINE TOPOGRAPHY WAS OBTAINED BY PHOTOGRAMMETRIC METHODS BY LUMSDEN ASSOCIATES, P.C. TOPOGRAPHY IS NOT GUARANTEED AS TO THE COMPLETENESS AND ACCURACY. CONTRACTOR SHALL VERIFY PERTINENT DATA IN THE FIELD.
2. HORIZONTAL STATIONING SHOWN ON PLANS IS FOR LEVEL LINE MEASURE ON PIPELINE CENTERLINE, ACTUAL UTILITY LENGTH SHALL BE DETERMINED BY THE SLOPE OR CURVE ON WHICH THE UTILITY IS INSTALLED.
3. THE LOCATION OF EXISTING PIPES OR OTHER UNDERGROUND STRUCTURES OR OF PROPERTY LINES ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES OR STRUCTURES ARE SHOWN. UNDERGROUND UTILITIES HAVE BEEN LOCATED USING AVAILABLE MAPPING. THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-552-7001 48 HOURS PRIOR TO ANY EXCAVATION TO OBTAIN ADDITIONAL UTILITY LOCATION INFORMATION, OR USE OTHER AVAILABLE INFORMATION TO IDENTIFY UTILITIES NOT LOCATED BY "MISS UTILITY". IN ADDITION, THE PROPOSED ROANOKE RIVER INTERCEPTOR ALIGNMENT AND MANHOLES INDICATED ON THE DRAWINGS ARE LOCATED A MINIMUM DISTANCE OF 15 LF FROM THE EXISTING INTERCEPTOR AND MANHOLES (℄ TO ℄). IF THIS DISTANCE CANNOT BE MAINTAINED DURING CONSTRUCTION DUE TO ACTUAL LOCATION OF THE EXISTING INTERCEPTOR, THE PROPOSED INTERCEPTOR PIPE AND MANHOLE(S) SHALL BE RELOCATED BY CONTRACTOR TO A LOCATION APPROVED BY ENGINEER.
4. THE ADJUSTMENT OR RELOCATION OF ALL UTILITIES (UNDERGROUND, SURFACE, OR OVERHEAD) SHALL BE COORDINATED WITH THE OWNER OF EACH UTILITY PRIOR TO UNDERTAKING ANY CONSTRUCTION OPERATIONS, AND SHALL BE INCLUDED IN THE BID PRICE. NO ADDITIONAL PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR UTILITY ADJUSTMENT OR RELOCATION.
5. THE APPROXIMATE LOCATIONS OF BORINGS ARE INDICATED ON THE PLANS. LOGS AND SOIL DESCRIPTIONS ARE INCLUDED IN THE GEOTECHNICAL REPORT PREPARED BY SCHNABEL ENGINEERING ASSOCIATES. ADDITIONAL SUBSURFACE INFORMATION IS ALSO AVAILABLE FROM DEWBERRY & DAVIS, ROANOKE, VIRGINIA.
6. EXISTING SURVEY MONUMENTS SHALL BE REFERENCED PRIOR TO CONSTRUCTION AND IF DISTURBED OR DAMAGED BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
7. POWER AND LIGHT POLES MAY NEED TO BE SUPPORTED WITH POLE SUPPORTING DEVICES AT VARIOUS LOCATIONS. CONTRACTOR SHALL CONTACT THE OWNER OF THE POLE PRIOR TO NEEDING SUCH SUPPORTS.
8. THIS SHEET IS COMPOSED OF GENERAL LEGENDS AND ABBREVIATIONS. NOT ALL OF THE SYMBOLS AND ABBREVIATIONS ARE USED ON THE DRAWINGS FOR THIS PROJECT.
9. THE WATER LINE (EDGE OF RIVER) INDICATED ON THE DRAWINGS IS NOT FIXED AND REPRESENTS THE WATER SURFACE ELEVATION ON APRIL 11, 1991.
10. HORIZONTAL(COORDINATE) DATA ARE VIRGINIA SOUTH ZONE NAD 83 STATE PLANE COORDINATE SYSTEM. COORDINATE INFORMATION IS TAKEN FROM CITY WIDE PRIMARY CONTROL NETWORK USING GLOBAL POSITIONING SYSTEM (GPS) BY LUMSDEN ASSOCIATES, P.C. (ENGINEERS-SURVEYORS-PLANNERS, ROANOKE, VIRGINIA FOR THE CITY OF ROANOKE, VIRGINIA DATED JANUARY 1992). VERTICAL DATA ARE ALSO BASED ON THE CITY DATUM WHICH IS NAD 29. HORIZONTAL AND VERTICAL DATA DESCRIBED ABOVE ARE COLLECTIVELY REFERRED TO AS THE ROANOKE RIVER INTERCEPTOR DATUM. MONUMENTS LISTED UNDER BENCHMARK DATA THIS SHEET ARE PROVIDED AS REFERENCE ELEVATION POINTS. REFERENCES TO "C.O.E. B/L STA" MEAN BASELINE STATIONS INDICATED ON DRAWINGS FOR "US ARMY ENGINEER DISTRICT, CORPS OF ENGINNERS, WILMINGTON, NORTH CAROLINA, ROANOKE RIVER UPPER BASIN, VIRGINIA, HEADWATERS AREA FLOOD REDUCTION PROJECT".
11. CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO FEET SIX INCHES OF COVER ON TOP OF THE SEWER INTERCEPTOR PIPE IN ALL LOCATIONS.
12. LOCATIONS OF PROPERTY LINES AND EXISTING, TEMPORARY, AND PERMANENT EASEMENTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL REFER TO EASEMENT PLATS PREPARED BY T.P. PARKER & SON, SALEM, VIRGINIA.
13. EXISTING STORM SEWER LINES SHALL BE PROTECTED DURING CONSTRUCTION. STORM SEWER LINES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR ACCORDING TO SECTION 02619-STORM SEWER REPLACEMENT.
14. EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE "ROANOKE RIVER INTERCEPTOR EROSION CONTROL NARRATIVE" PREPARED BY ANDERSON & ASSOCIATES, INC. IN NON-PAVED AREAS.
15. SURFACE RESTORATION AND REVEGETATION IN NON-PAVED AREAS SHALL BE PROVIDED AS INDICATED ON THE VMRC PERMIT DRAWINGS.
16. POST-CONSTRUCTION STATIONING HAS BEEN INDICATED ON ALL DRAWINGS. THE STATION OF THE RISER IS INDICATED AT THE BOTTOM OF THE PROFILE NEXT TO THE INVERT. THE MANHOLE PI STATION IS INDICATED ABOVE OR BELOW THE MANHOLE IN THE PROFILE. IF NO PI STATION IS INDICATED, THEN THE MANHOLE RISER AND PI STATION COINCIDE. PIPE LENGTHS BETWEEN MANHOLES ARE BASED ON MANHOLE RISER STATIONING.

RECORD DRAWING

THIS DRAWING HAS BEEN MODIFIED TO REFLECT CHANGES MADE DURING CONSTRUCTION BASED UPON INFORMATION AS MAY BE PROVIDED BY THE CONTRACTOR AND CONSTRUCTION OBSERVATION BY THE ENGINEER'S AUTHORIZED REPRESENTATIVE

BY ..... ENGINEER ..... DATE

NO.	DATE	REVISIONS AND RECORD OF ISSUE	BY	CK	APP

DESIGNED JBB,SLF
DETAILED ABW
CHECKED RAF
APPROVED
DATE 9/28/00

Black & Veatch
Charlotte, North Carolina

PROJECT NO. 26444

CITY OF ROANOKE, VIRGINIA
ROANOKE RIVER INTERCEPTOR

LEGEND, ABBREVIATIONS, AND GENERAL NOTES

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY BRENT N. REUSS PROFESSIONAL ENGINEER, COMMONWEALTH OF VIRGINIA REGISTRATION NO. 026345 ON 5-30-97

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SHEET 2 OF 30

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