

ABBREVIATIONS

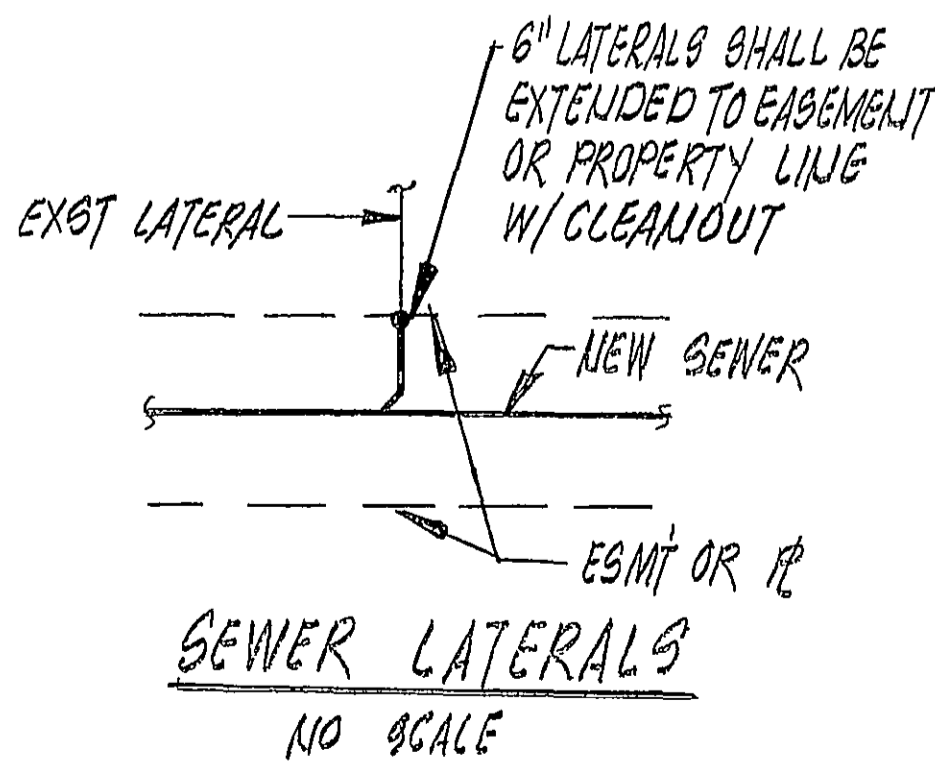
ABUT	ABUTMENT	PSI	POUNDS PER SQ INCH
ADD	ADDITIONAL	PT	POINT OF TANGENT
ADJ	ADJACENT	PVC	POINT OF VERTICAL CURVE
AGGR	AGGREGATE	PVI	POLYVINYL CHLORIDE
AHR	ANCHOR	PVMT	POINT OF VERTICAL INTERSECTION
AL	ALUMINUM	PVT	POINT OF VERTICAL TANGENT
ALT	ALTERNATE	R	RADIUS
APPROX	APPROXIMATE	RT	RIGHT
AWWA	AMERICAN WATER WORKS ASSOCIATION	R/W	RIGHT OF WAY
BIT	BITUMINOUS	RD	ROOF DRAIN, ROAD
BL	BASE LINE	RDCR	REDUCER
BLDG	BUILDING	REINF	REINFORCE, REINFORCEMENT
BM	BENCH MARK	REQD	REQUIRED
BOT	BOTTOM	REV	REVISION
B	BRICK	S	SANITARY SEWER, SOUTH, STORY
BSMT	BASEMENT	SAN	SANITARY
C/O/C C/C	CENTER TO CENTER	SCH	SCHEDULE
C & G	CURB & GUTTER	SD	STORM DRAIN
CAP	CAPACITY	SECT	SECTION
CF	CUBIC FEET	SH	SHEET
CY	CUBIC YARD	SIM	SIMILAR
CI	CAST IRON	SPEC	SPECIFICATION
CIRC	CIRCULAR	SQ	SQUARE
CL	CENTER LINE	SST	STAINLESS STEEL
CLR	CLEAR	ST	STREET
CMP	CORRUGATED METAL PIPE	STA	STATION
CND	CONDUIT	STD	STANDARD
CO	CLEAN OUT	STL	STEEL
COL	COLUMN	SURF	SURFACE
CONC	CONCRETE	SER	SERVICE
CONN	CONNECT, CONNECTION	SUR	SURVEY
CONT	CONTINUOUS	TDC	TURNED DOWN CURB
CONTR	CONTRACTOR	TELE	TELEPHONE
CTR	CENTER	TEMP	TEMPORARY
CULV	CULVERT	THK	THICK
D	DEPTH DEGREE OF CURVE	TV	TELEVISION
DEPT	DEPARTMENT	TW	TOP OF WALL
DET	DETAIL	TYP	TYPICAL
DI	DROP INLET, DUCTILE IRON	UG	UNDERGROUND
DIA	DIAMETER	V	VALVE
DIM	DIMENSION	VC	VERTICAL CURVE
DISC	DISCONNECT	VERT	VERTICAL
DWH	DROP MANHOLE	VOL	VOLUME
DN	DOWN	VOL	VOLUME
DR	DRIVE	VVHT	VIRGINIA DEPT OF HIGHWAYS AND TRANSPORTATION
DWL	DWELLING	W/	WITH
DWG	DRAWING	W/O	WITHOUT
E	EAST	WD	WOOD
EA	EACH	WL	WATER LINE
EF	EACH FACE	WS	WATER SURFACE
EJ	EXPANSION JOINT	WT	WATERTIGHT
ELEV	ELEVATION	WWF	WELDED WIRE FABRIC
ELEC	ELECTRIC, ELECTRICAL	WVDH	WEST VIRGINIA DEPT OF HIGHWAYS
ENGR	ENGINEER	CVR	COVER
ENTR	ENTRANCE		
EOL	END OF LINE		
EP	EDGE OF PAVEMENT		
EQ	EQUAL		
EQPT	EQUIPMENT		
EW	EACH WAY, ENDWALL		
EXST	EXISTING		
EXT	EXTERIOR		
FR	FRAME		
FD	FLOOR DRAIN		
FDM	FOUNDATION		
FES	FLARED END SECTION		
FIG	FIGURE		
FIN	FINISH		
FL	FLOOR		
FLEX	FLEXIBLE		
FLG	FLANGE		
FT	FOOT		
FTG	FOOTING		
GAL	GALLON		
GALV	GALVANIZED		
GND	GROUND		
GOVT	GOVERNMENT		
GPM	GALLONS PER MINUTE		
GV	GATE VALVE		
HB	HOSE BIBB		
HORZ	HORIZONTAL		
HP	HORSEPOWER		
HPT	HIGH POINT		
HYD	HYDRANT		
ID	INSIDE DIAMETER		
IN	INCH		
INVT	INVERT		
JB	JUNCTION BOX		
L	LENGTH		
LF	LINEAL FOOT		
LP	LOW POINT		
LT	LEFT		
MATL	MATERIAL		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MH	MANHOLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MON	MONUMENT		
N & C	NAIL & CAP		
NIC	NOT IN CONTRACT		
NO	NUMBER		
NTS	NOT TO SCALE		
OC	ON CENTER		
OD	OUTSIDE DIAMETER		
OPNG	OPENING		
OPP	OPPOSITE		
PC	POINT OF CURVE		
PCC	POINT OF COMPOUND CURVE		
PI	POINT OF INTERSECTION		
PIV	POST INDICATOR VALVE		
PL	PLATE, PROPERTY LINE		
POT	POINT ON TANGENT		
PERF	PERFORATED		
POL	POINT ON LINE		
PRC	POINT OF REVERSE CURVE		

LEGEND

EXISTING	NEW	DESCRIPTION
		BUILDING WITH PORCH OR STOOP
		FOUNDATION ONLY
		CONTOUR, CONTOUR WITH ELEVATION
		SPOT ELEVATION
		CONCRETE CURB
		CONCRETE CURB & GUTTER
		CONCRETE WALK OR SLAB
		PAVEMENT
		UNPAVED OR GRAVEL ROAD
		TREE LINE
		TREE OR SHRUB
		FENCE AND GATE
		CENTERLINE OF DITCH OR SWALE
		PROPERTY LINE
		CENTERLINE OR BASELINE
		LIMIT OF WORK LINE
		FIELD SURVEY TRAVERSE POINT
		P.C. OR P.T.
		GEOLOGIC BORE HOLE
		STORM DRAIN AND ENDWALL
		SANITARY SEWER
		GAS MAIN OR SERVICE LINE
		WATER MAIN OR SERVICE LINE
		ELECTRICAL LINE
		PIPE FITTINGS AND REACTION BLOCKING
		FIRE HYDRANT
		GATE VALVE
		CLEANOUT
		MANHOLE
		DROP INLET (CURB AND GRATING TYPES)
		G.M. - GAS METER, W.M. - WATER METER
		TELEPHONE LINE
		TELEPHONE POLE, GUY AND ANCHOR
		POWER POLE, GUY AND ANCHOR
		TELEPHONE PEDESTAL
		BURIED TELEPHONE VAULT
		ABANDON OR REMOVE
		PAVED DITCH
		DRIVEWAY CULVERT
		CULVERT WITH FLARED END SECTION
		IRON PIN OR PINCH PIPE
		EROSION CONTROL STONE
		STRAW BALES AND SILT TRAP
		STORM DRAIN INLET PROTECTION
		TEMPORARY DIVERSION DIKE
		TEMPORARY SEDIMENT TRAP
		TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
		STRAW BALE BARRIER
		RIPRAP
		FORCE MAIN

GENERAL NOTES

1. FIELD SURVEY PERFORMED BY WHM ASSOCIATES, INC. IN JULY, 1985.
2. BENCHMARK DATUM IS NOTED ON DRAWINGS.
3. THE LOCATION OF EXISTING UTILITIES INCLUDING UNDERGROUND UTILITIES, IS INDICATED ON THE DRAWINGS INsofar AS THEIR EXISTENCE AND LOCATION WERE KNOWN AT THE TIME OF PREPARATION OF THE DRAWINGS. HOWEVER, NOTHING IN THESE CONTRACT DOCUMENTS SHALL BE CONSTRUED AS A GUARANTEE THAT SUCH UTILITIES ARE IN THE LOCATION INDICATED OR THAT THEY ACTUALLY EXIST, OR THAT OTHER UTILITIES ARE NOT WITHIN THE AREA OF OPERATIONS. THE CONTRACTOR SHALL MAKE ALL NECESSARY INVESTIGATIONS TO DETERMINE THE EXISTENCE AND LOCATIONS OF SUCH UTILITIES. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
4. THE CONTRACTOR IS DIRECTED TO DIG AND LOCATE ALL UTILITIES IN ADVANCE OF THE PIPELAYING, TO ALLOW FOR ADJUSTMENTS IN THE SANITARY LINE DUE TO CONFLICTS WITH THE UTILITIES
5. ALL KNOWN EXISTING SANITARY LATERALS ARE SHOWN ON THE DRAWINGS. THE LATERALS SHOWN ARE APPROXIMATE LOCATIONS ONLY. ALL SANITARY LATERALS SHALL BE CONNECTED TO THE NEW SANITARY LINE IN ACCORDANCE WITH THE CONNECTION DETAIL SS-14.
6. PRIOR TO PLUGGING OR ABANDONING EXISTING SEWERS, THE CONTRACTOR SHALL CONNECT ALL EXISTING SEWER LATERALS TO THE NEW SEWER LINES SO THAT SEWER SERVICE IS MAINTAINED TO EXISTING CONNECTIONS ASSOCIATED WITH THIS WORK. THE CONTRACTOR SHALL USE EXCAVATION, T.V. INSPECTION, DYE TESTING AND OTHER TECHNIQUES AS REQUIRED TO LOCATE ALL EXISTING SEWER LATERALS.
7. THE DRAWINGS SHALL NOT BE SCALED AND THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS AT THE SITE PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR IS DIRECTED TO NOTE ALL CONNECTIONS TO EXISTING SYSTEMS INDICATED, AND THE NECESSITY TO VERIFY AND/OR DETERMINE THE SIZES, THE MATERIALS AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE EXISTING UTILITIES PRIOR TO ORDERING ANY MATERIALS.
8. 25 YR FLOOD INFORMATION TAKEN FROM NATIONAL FLOOD INSURANCE PROGRAM FLOODWAY MAP FOR CITY OF ROANOKE, VA., COMMUNITY PANEL NUMBER 510130 0020 DATED NOVEMBER 4, 1981.
9. ALL SEWER LATERALS SHALL HAVE A CLEANOUT AT THE EASEMENT LINE AS PER DETAIL THIS SHEET.
10. FRAMES & COVERS OF MANHOLES THAT ARE REMOVED SHALL BE TURNED OVER TO THE CITY AND SHALL BE LOADED ONTO A CITY VEHICLE, AS DIRECTED BY THE CITY ENGINEER.



REVISION	DATE	DESCRIPTION	BY	APP.