AB	ANCHOR BOLT
ABAN	ABANDON OR ABANDONED
ABUT	ABUTMENT
ABV	ABOVE
ACT	ACOUSTICAL
ADD	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
ALUM	ALUMINUM
ALT	ALTERNATE
ANC	ANCHOR
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AWWA	AMERICAN WATER WORKS ASSOCIATION
AVG	AVERAGE
BIT	BITUMINOUS
BJ	BELL JOINT
BL	BASE LINE
BEG	BEGIN OR BEGINNING
BLDG	BUILDING
BLKG	BLOCKING
BM	BENCH MARK, BEAM
BOTT	BOTTOM
BP	BYPASS
BRG	BEARING
BSMT	BASEMENT
BV	BUTTERFLY VALVE
B/W	BETWEEN
C/C, C TO C	CENTER TO CENTER
CAB	CABINET
CATV	CABLE TELEVISION
CF	CUBIC FEET
CG	CHANGE OF GRADE
C & G, CC&G	CURB AND GUTTER , CONCRETE
CI	CAST IRON
CIRC	CIRCULAR
CKT	CIRCUIT
CL	CENTER LINE
CLR	CLEAR
CONST	CONSTRUCTION
COR	CORNER
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNITS
CND	CONDUIT
CO	CLEAN OUT
COMB	COMBINATION
CONC	CONCRETE
CONN	CONNECT, CONNECTION
CONT	CONTINUOUS, CONTROL
CONTR	CONTRACTOR
CP	COORDINATE POINT
CR STONE	CRUSHED STONE
CSW	CONCRETE SIDEWALK
CTR	CENTER
CULV	CULVERT
CY	CUBIC YARD
D	DEPTH OR DEGREE OF CURVE
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DMH	DROP MANHOLE
DN	DOWN
DR	DRIVE
DS	DOWN SPOUT
DTL	DETAIL
DW,D/W	DRIVEWAY
DWL	DWELLING
DWG	DRAWING
E	EAST
EA	EACH
E.B.L.	EASTBOUND LANE
EF	EACH FACE
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
ELEC	ELECTRICAL
ENGR	ENGINEER
ENTR	ENTRANCE
EOL	END OF LINE
EP	EDGE OF PAVEMENT
EQ	EQUAL
EQPT	EQUIPMENT
EW	EACH WAY, ENDWALL
EXIST	EXISTING

EXP	EXPANSION
EXT	EXTERIOR
FR	FRAME
FD	FLOOR DRAIN
FDN	FOUNDATION
FES	FLARED END SECTION
FF	FINISH FLOOR
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH
FIXT	FIXTURE
FL	FLOOR
FLEX	FLEXIBLE
FLG	FLANGE
FT	FOOT
FTG	FOOTING
FUT	FUTURE
GAL	GALLON
GALV	GALVANIZED
GAR	GARAGE
GND	GROUND
GR	GRAVEL
GOVT	GOVERNMENT
GPM	GALLONS PER MINUTE
GRTG	GRATING
GV	GAS VALVE
GW	GRAY WATER
H	HOT
HB	HOSE BIBB
HK	HOOK
HM	HOLLOW METAL
HOR, HORIZ	HORIZONTAL
HP	HORSE POWER
HPT	HIGH POINT
HYD	HYDRANT
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATION
INV	INVERT
IP	IRON PIN
JT	JOINT
JB	JUNCTION BOX
L	LENGTH, LONG
LF	LINEAL FOOT
LG	LONG
LP	LIGHT POLE
LR	LONG RADIUS
LT	LEFT
LTG	LIGHTING
MACH	MACHINERY
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MAILBOX
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE, MOUNTING HEIGHT
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MO	MASONRY OPENING
MON	MONUMENT
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MV	MUD VALVE
N & C	NAIL AND CAP
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTERS
OD	OUTSIDE DIAMETER
OPER	OPERATOR
OPNG	OPENING
OPP	OPPOSITE
PB	PAPER BOX
PC	POINT OF CURVE
PCC	POINT OF COMPOUND
PER	PERIMETER
PERF	PERFORATED
PERP	PERPENDICULAR
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PL	PLATE, PROPERTY LINE
PLYWD	PLYWOOD
POL	POINT ON LINE

PP	POWER POLE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVE
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	PRIVATE
R	RADIUS, RISER
RAS	RETURN ACTIVATED SLUDGE
RR	RAIL ROAD
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN, ROAD
RDCR	REDUCER
RECPT	RECEPTACLE
RECT	RECTANGULAR
REINF	REINFORCE, REINFORCEMENT
REF	REFERENCE
REL	RELOCATED
REQD	REQUIRED
REV	REVISION
RTE	ROUTE
RT	RIGHT
R/W	RIGHT OF WAY
S	SANITARY SEWER, SOUTH, SWITCH
SAN	SANITARY
SCH	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
SER	SERVICE
SH	SHEET
SHTG	SHEETING
SIM	SIMILAR
SPEC	SPECIFICATION
SP	SIGNAL POLE
SQ	SQUARE
SS	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
STY	STORY
SUR	SURVEY
SURF	SURFACE
S/W	SIDEWALK
SYMM	SYMMETRICAL
T	TREAD, TOP
T & B	TOP AND BOTTOM
TDC	TURNED DOWN CURB
TELE	TELEPHONE
TEMP	TEMPORARY
THK	THICK
TP	TELEPHONE POLE
TRTD	TREATED
TS	TOP OF SLAB
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
U.S.C.&G.S.	UNITED STATES COAST AND GEODETIC SURVEY
USGS	UNITED STATES GEOLOGICAL SURVEY
V, VAL	VALVE
VAP BAR	VAPOR BARRIER
VC	VERTICAL CURVE
VERT	VERTICAL
VOL	VOLUME
VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION
V.S.D.	VERTICAL SIGHT DISTANCE
W.B.L.	WEST BOUND LANE
W	WIDE FLANGE, WIDE
W/	WITH
WD	WOOD
WL	WATER LINE
W/O	WITHOUT
WS	WATER SURFACE
WT	WATERTIGHT, WEIGHT
WVDH	WEST VIRGINIA DEPARTMENT OF HIGHWAYS
WWF	WELDED WIRE FABRIC

MATERIALS SYMBOLS

- METAL
- BRICK
- CONCRETE MASONRY
- CONCRETE
- GROUT OR FINISHED CONCRETE
- INSULATION (RIGID)
- WOOD BLOCKING
- FINISHED WOOD OR PLYWOOD
- GRAVEL OR STONE
- EARTH

EROSION AND SEDIMENT CONTROL SYMBOLS

- CIP — CULVERT INLET PROTECTION
- IP — STORM DRAIN INLET PROTECTION
- DV — DIVERSION
- ST — TEMPORARY SEDIMENT TRAP
- CE — TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
- RR — RIPRAP
- SF — SILT FENCE
- OP — OUTLET PROTECTION
- SAF — SAFETY FENCE

	EXISTING	NEW	DESCRIPTION
			BUILDING WITH PORCH OR STOOP
			FOUNDATION ONLY
	35	35	CONTOUR, CONTOUR WITH ELEVATION
	20.0 OR x1025.00	20.0 OR x1025	SPOT ELEVATION
			CONCRETE CURB
			CONCRETE CURB & GUTTER
			CONCRETE WALK OR SLAB
			EDGE OF PAVEMENT
			UNPAVED OR GRAVEL ROAD
			TREE LINE
	OR	OR	TREE OR SHRUB
	x x	x x	FENCE
			CENTERLINE CREEK, SWALE OR DITCH
	PL	PL	PROPERTY LINE
	℄ A	℄ A	BASELINE
			LIMIT OF WORK LINE
	△	△	FIELD SURVEY TRAVERSE POINT
	○	○	P.C. OR P.T.
	⊕	⊕	GEOLOGIC BORE HOLE
	SD	SD	STORM DRAIN AND ENDWALL
	S	S	SANITARY SEWER
	FM	FM	FORCE MAIN
	G	G	GAS MAIN OR SERVICE LINE
	W	W	WATER MAIN OR SERVICE LINE
	FO	FO	FIBER OPTIC LINE
	E	E	ELECTRICAL LINE
	UE	UE	UNDERGROUND ELECTRICAL LINE
			PIPE FITTINGS
	OR	OR	FIRE HYDRANT
	OR	OR	GATE VALVE
	⊗ WV	⊗	WATER VALVE
	CO	CO	CLEANOUT
			MANHOLE
			DROP INLET (CURB AND GRATING TYPES)
	GM GM	GM GM	G.M. – GAS METER, W.M. – WATER METER
	CATV	CATV	CABLE TELEVISION
	T	T	TELEPHONE LINE
	UT	UT	UNDERGROUND TELEPHONE LINE
			TELEPHONE POLE, GUY AND ANCHOR
			POWER POLE, GUY AND ANCHOR
			LIGHT POLE
			SIGNAL POLE
	T	T	TELEPHONE PEDESTAL
			BURIED TELEPHONE VAULT
			ABANDON OR REMOVE
			PAVED DITCH
			DRIVEWAY CULVERT
	OR	OR	CULVERT WITH FLARED END SECTION
	○ H&T		HUB AND TACK
	✳ CP #101	✳ CP #1103	COORDINATE POINT

SECTION NUMBER
A
C B
SHEET THE SECTION IS CUT ON
SHEET THE SECTION IS SHOWN ON

WVWA ID# 6HHKGL

RECORD DRAWINGS

COMMONWEALTH OF VIRGINIA
BRADLEY C. CRAIG
No. 023879
PROFESSIONAL ENGINEER

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BRAMBLETON AVE. WATER LINE PROJECT

ABBREVIATIONS AND LEGEND

ROANOKE, VIRGINIA

Vertical Scale: N/A
Horizontal Scale: AS NOTED
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