EXISTING WATER LINE LOCATIONS BOTH HORIZONTAL AND VERTICAL ARE APPROXIMATE. THE LOCATION IS NOT THE RESULT OF A FIELD SURVEY.

THE CONTRACTOR IS DIRECTED TO DIG AND LOCATE ALL UTILITIES IN ADVANCE OF PIPELAYING TO ALLOW FOR ADJUSTMENTS DUE TO CONFLICTS WITH EXISTING UTILITIES. SHOULD A CONFLICT ARISE THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY.

THE CONTRACTOR IS REQUIRED TO NOTIFY "MISS UTILITY" AT 1-800-552-7001 AT LEAST TWO, BUT NOT MORE THAN TEN, WORKING DAYS IN ADVANCE OF CONSTRUCTION.

Western Virginia Water Authority **General Notes:**

1. All new connections to existing sanitary sewer shall be made by the Western Virginia Water Authority. 2. Contractor shall seed and maintain all disturbed areas not covered by walks or pavement immediately upon completion of final grading

3. Contractor shall dig and locate all utilities in advance of the construction to allow for adjustments due to conflicts with utilities. All sanitary sewer and storm drain inverts shall be verified prior to construction. Any conflict shall be resolved prior to construction of the sewer line. 4. 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. The contractor shall make all necessary investigations to determine the existence and locations of such

5. The contractor shall protect and maintain all existing utilities and structures and shall be responsible for paying and/or repairing to owner's specifications for any damage. 6. The existing sewer line is prone to surcharge during heavy rains. Contractor shall be prepared to reconnect the sewer line or pump around five (5) times the normal flow. 7. Contractor shall keep a set of plans for mark-ups during the construction phase to provide correct record drawings to the Western Virginia Water Authority (WVWA). 8. All construction materials and methods shall conform to

the WVWA Standards. 9. Contractor shall make provisions to provide access to all properties during construction and shall maintain safe accessibility to fire hydrants at all times. 10. Street closed to thru traffic. All home owners shall have

access to their houses at all times. 11. Sidewalk and curb and gutter shall be cut to the nearest

12. Traffic control shall be provided in accordance with the most recent MUTCD Manual and the VDOT Work Area Protection Manual. Notify the City Traffic Engineer, Mark Jamison (540) 853-2686 two weeks in advance of construction.

13. A Street Opening Permit shall be obtained from Roanoke City Engineering Department. Contact Jason Thomas at 853—2856.

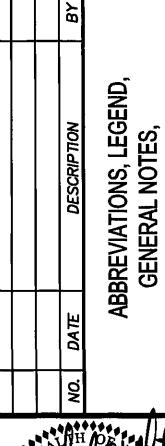
14. A Lane Closure Permit must be obtained from Traffic Engineering. Contact Carrier Wolter at 853-5473. 15. All pavement repairs shall be in accordance with City Of Roanoke Right of Way Excavation and Restoration Standards. 16. Contractor shall construct all manholes located within the roadway so that they are flush with the pavement. 17. Unrepaired roadways opened to traffic shall have compacted aggregate material 21A or 21B flush with the adjacent roadway surface. 18. Contractor shall not excavate more trench length that can

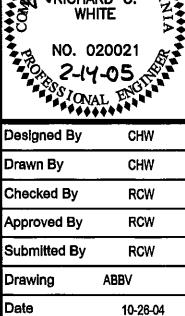
be restored within the same work day. In addition to the ackfill requirements of the WVWA Standards, all trenches shall be backfilled or plated at the end of each work day. No trench shall remain open over night or when contractor is not on site

ABAN	ABANDON, ABANDONED	MECH	MECHANICAL	EXISTING	NEW	DESCRIPTION
ABUT ADJ	ABUTMENT ADJACENT	MFR MH	MANUFACTURER MANHOLE		أبحمدا	
AGGR ANC	AGGREGATE ANCHOR	MIN J	MINIMUM MECHANICAL JOINT			BUILDING WITH PORCH OR STOOP
APPROX	APPROXIMATE	MON	MONUMENT			FOUNDATION ONLY
BIT BJ	BITUMINOUS BELL JOINT	MTL N & C	METAL NAIL AND CAP		35	CONTOUR, CONTOUR WITH ELEVATION
BL BEG	BASE LINE BEGIN, BEGINNING	NIC NO	NOT IN CONTRACT NUMBER	* 20.0 E OR 41025,00 E	* 20.0 F.08 V 4.0.0 F	SPOT ELEVATION
BLDG BM	BUILDING BENCH MARK	NPW NTS	NON POTABLE WATER NOT TO SCALE		20.0 E OR X 1025	CONCRETE CURB
BSP BV	BLACK STEEL PIPE BUTTERFLY VALVE	OC OD	ON CENTERS OUTSIDE DIAMETER			
BVCE BVCS	BEGIN VERTICAL CURVE ELEVATION BEGIN VERTICAL CURVE STATION	PVMT	PAVEMENT POINT OF CURVE			CONCRETE CURB & GUTTER
C & G	CURB AND GUTTER	PC PCC	POINT OF COMPOUND CURVE	4		CONCRETE WALK OR SLAB
CL	CAST IRON CENTER LINE	PER PERF	PERIMETER PERFORATED			PAVEMENT
CONST CMP	CONSTRUCTION CORRUGATED METAL PIPE	PERP Pl	PERPENDICULAR POINT OF INTERSECTION			UNPAVED OR GRAVEL ROAD
CMU CND	CONCRETE MASONRY UNITS CONDUIT	P L POL	PLATE, PROPERTY LINE POINT ON LINE			CONSTRUCTION EASEMENT
COMB	CLEANOUT COMBINATION	PT POT	POINT OF TANGENCY POINT ON TANGENT			PERMANENT EASEMENT
CONC CONN	CONCRETE (PORTLAND CEMENT) CONNECT, CONNECTION	PP	POWER POLE	$\sim\sim\sim$	$\sim\sim$	TREE LINE
CONTR CONV	CONTRACTOR CONVEYOR	PRC PSI	POINT OF REVERSE CURVE POUNDS PER SQUARE INCH	⊙ or 💥		TREE OR SHRUB
COR	CORNER	PT PVC	POINT OF TANGENT POLYVINYL CHLORIDE	x x -	— x — x –	FENCE (EXISTING OR PROPOSED NOTED)
CR STONE CTR	CRUSHED STONE CENTER_	PVI PUE	POINT OF VERTICAL INTERSECTION PUBLIC UTILITY EASEMENT		<u> </u>	CENTERLINE CREEK, SWALE, DITCH
CULV D	CULVERT DEPTH OR DEGREE OF CURVE	R RR	RADIUS, RISER RAILROAD	P	P	PROPERTY LINE
DE Di	DRAINAGE EASEMENT DROP INLET, DUCTILE IRON	RCP RD	REINFORCED CONCRETE PIPE ROAD	cn	C B	CENTERLINE OR BASELINE
DIA DIM	DIAMETER DIMENSION	RDCR REINF	REDUCER REINFORCE, REINFORCEMENT		_ · · · · · · · · · · · · · · · · · · ·	CENTERLINE OR BASELINE
DISC DMH	DISCONNECT DROP MANHOLE	REF	REFERENCE	\triangle	▲	FIELD SURVEY TRAVERSE POINT
DN	DOWN	REL REQD	RELOCATED REQUIRED	0	0	P.C. OR P.T.
DTL DW, D/W	DETAIL DRIVEWAY	REV RTE	REVISION ROUTE	\oplus	•	GEOLOGIC BORE HOLE
DWL DWG	DWELLING DRAWING	RT R/W	RIGHT RIGHT OF WAY	\oplus	�	BENCH MARK (EXISTING OR SET NOTED)
EA E.B.L.	EACH EASTBOUND LANE	SŚ SAN	SANITARY SEWER SANITARY	——————————————————————————————————————	→ SD — —	STORM DRAIN AND ENDWALL
EL. ELEV ELEC	ELEVATION ELECTRICAL	S/W SD	SIDEWALK STORM DRAIN		SS——	SANITARY SEWER
ENGR ENTR	ENGINEER ENTRANCE	SE	SLOPE EASEMENT			
EOL EP	END OF LINE EDGE OF PAVEMENT	SECT SER	SECTION SERVICE	— — rm— —	— —FM— —	FORCE MAIN
EQ	EQUAL	SH SPEC	SHEET SPECIFICATION	——— G ———	G	GAS MAIN OR SERVICE LINE
EQPT EVCE	EQUIPMENT END VERTICAL CURVE ELEVATION	SPECS SQ	SPECIFICATIONS SQUARE	—— W ——	—— W ——	WATER MAIN OR SERVICE LINE
EVCS EW	END VERTICAL CURVE STATION EACH WAY, ENDWALL	SSTL STR	STAINLESS STEEL STREET		——— OE ———	OVERHEAD ELECTRICAL LINE
EXIST FES	EXISTING FLARED END SECTION	STA STD	STATION STANDARD	TOT	ot	OVERHEAD TELEPHONE LINE
FF FFE	FINISH FLOOR FINISHED FLOOR ELEVATION	STL STRUCT	STEEL	— — UE— —	— —UE— —	UNDERGROUND ELECTRICAL LINE
FIG FL	FIGURE FLOOR	SUR	STRUCTURAL SURVEY	— —UT— —	UT	UNDERGROUND TELEPHONE LINE
FLEX FLG	FLEXIBLE FLANGE	T & B TELE	TOP AND BOTTOM TELEPHONE	· · · · · · · · · · · · · · · · · · ·	~	PIPE FITTINGS
FT FTG	FOOTING	TEMP THK	TEMPORARY THICK	<u> </u>	<u> </u>	FIRE HYDRANT
FUT	FUTURE	TP TRTD	TELEPHONE POLE TREATED			GATE VALVE
GAL GALV	GALLON GALVANIZED	TV T W	TELEVISION TOP OF WALL	o <u>co</u>	CO	CLEANOUT
GAR GND	GARAGE GROUND	TYP UG	TYPICAL UNDERGROUND			MANHOLE
GR GOVT	GRAVEL GOVERNMENT	UON	UNLESS OTHERWISE NOTED	<u></u>		DROP INLET (CURB AND GRATING TYPES)
GPM GRTG	GALLONS PER MINUTE GRATING	U.S.C.&G.S	UNITED STATES COAST AND GEODETIC SURVEY	<u> </u>	• •	WM - WATER METER
GV	GATE VALVE HUB AND TAC	V. VAL VAR	VALVE, VENT VARIABLE	l T	I T	DWM - DOUBLE WATER METER
H&T HORIZ HPT	HORIZONTAL HIGH POINT	VC VERT	VERTICAL CURVE VERTICAL	24	1	TELEPHONE DOLE OUV AND ANGLOD
HYD	HYDRANT	VESCR	VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS	—— <u>V</u> ——		TELEPHONE POLE, GUY AND ANCHOR
ID IN	INSIDE DIAMETER INCH	VOL VDOT	VOLUME VIRGINIA DEPARTMENT OF TRANSPORTATION	 0) - •	POWER POLE, GUY AND ANCHOR
INSUL INV	INSULATION INVERT	V.S.D. W.B.L.	VERTICAL SIGHT DISTANCE WESTBOUND LANE	*	> — *	LIGHT POLE
IP L	IRON PIN (FOUND OR SET NOTED) LENGTH, LONG	W	WIDE FLANGE, WIDE, WASTE, WATER WITH		T	TELEPHONE PEDESTAL
LF LG	LINEAL FOOT LONG	W/ WL	WATER LINE	$\widehat{f T}$	T	BURIED TELEPHONE VAULT
LP LR	LIGHT POLE LONG RADIUS	W/O WS	WITHOUT WATER SURFACE			PAVED DITCH
LT MAS	LEFT MASONRY	WT W√DH	WATERTIGHT, WEIGHT WEST VIRGINIA DEPARTMENT	======		STORM PIPE (SIZE / TYPE NOTED)
MATL MAX	MATERIAL		OF HIGHWAYS	`		
MB	MAXIMUM MAIL BOX					CULVERT WITH FLARED END SECTION
MBL	MINIMUM BUILDING LINE			><	———	
				<u> </u>		AIR RELEASE VALVE / VAULT ASSEMBLY
				PROFILE PLAN	PROFILE PLAN	
				世 - 允 -	→ I	BLOW OFF VALVE / VAULT ASSEMBLY
				PROFILE PLAN	PROFILE PLAN	STEEL ENGASEMENT
						STEEL ENCASEMENT
				-E=== 3 -	And the second second	CONCRETE ENCASEMENT
					- 	ABANDON OR REMOVE
						LIMITS OF CONSTRUCTION

Albemarle Avelanoke, Virginia 24013 ww.lmwpc.com 540.345.0675 FOREST HILL AVENUE ANITARY SEWER IMPROVMENTS

VIRGINIA ROANOKE, OF





Commission No. 2938

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