

						MATERIALS SYMBOLS		EXISTING		NEW		DESCRIPTION	
AB	ANCHOR BOLT	EW	EACH WAY, ENDWALL	POL	POINT ON LINE		METAL					BUILDING WITH PORCH OR STOOP	
ABAN	ABANDON OR ABANDONED	EXIST	EXISTING	PP	POWER POLE		BRICK					FOUNDATION ONLY	
ABUT	ABUTMENT	EXP	EXPANSION	POT	POINT ON TANGENT		CONCRETE MASONRY					CONTOUR, CONTOUR WITH ELEVATION	
ABV	ABOVE	EXT	EXTERIOR	PRC	POINT OF REVERSE CURVE		CONCRETE					SPOT ELEVATION	
ACT	ACOUSTICAL	FR	FRAME	PSI	POUNDS PER SQUARE INCH		GROUT OR FINISHED CONCRETE					CONCRETE CURB	
ADD	ADDITIONAL	FD	FLOOR DRAIN	PT	POINT OF TANGENT		INSULATION (RIGID)					CONCRETE CURB & GUTTER	
ADJ	ADJACENT	FDN	FOUNDATION	PVC	POLYVINYL CHLORIDE		WOOD BLOCKING					CONCRETE WALK OR SLAB	
AFF	ABOVE FINISH FLOOR	FES	FLARED END SECTION	PVI	POINT OF VERTICAL INTERSECTION		FINISHED WOOD OR PLYWOOD					PAVEMENT	
AGGR	AGGREGATE	FF	FINISH FLOOR	PVMT	PAVEMENT		GRAVEL OR STONE					UNPAVED OR GRAVEL ROAD	
ALUM	ALUMINUM	FFE	FINISHED FLOOR ELEVATION	PVT	PRIVATE		EARTH					TREE LINE	
ALT	ALTERNATE	FIG	FIGURE	R	RADIUS, RISER							TREE OR SHRUB	
ANC	ANCHOR	FIN	FINISH	RAS	RETURN ACTIVATED SLUDGE							FENCE	
APPROX	APPROXIMATE	FIXT	FIXTURE	RR	RAIL ROAD							CENTERLINE CREEK, SWALE OR DITCH	
ARCH	ARCHITECTURAL	FL	FLOOR	RCP	REINFORCED CONCRETE PIPE							PROPERTY LINE	
AWWA	AMERICAN WATER WORKS ASSOCIATION	FLEX	FLEXIBLE	RD	ROOF DRAIN, ROAD							CENTERLINE OR BASELINE	
AVG	AVERAGE	FLG	FLANGE	RDCR	REDUCER							LIMIT OF WORK LINE	
BIT	BITUMINOUS	FT	FOOT	RECPT	RECEPTACLE							FIELD SURVEY TRAVERSE POINT	
BJ	BELL JOINT	FTG	FOOTING	RECT	RECTANGULAR							P.C. OR P.T.	
BL	BASE LINE	FUT	FUTURE	REINF	REINFORCE, REINFORCEMENT							GEOLOGIC BORE HOLE	
BEG	BEGIN OR BEGINNING	GAL	GALLON	REF	REFERENCE							STORM DRAIN AND ENDWALL	
BLDG	BUILDING	GALV	GALVANIZED	REL	RELOCATED							SANITARY SEWER	
BLKG	BLOCKING	GAR	GARAGE	REQD	REQUIRED							FORCE MAIN	
BM	BENCH MARK, BEAM	GND	GROUND	REV	REVISION							GAS MAIN OR SERVICE LINE	
BOTT	BOTTOM	GR	GRAVEL	RTE	ROUTE							WATER MAIN OR SERVICE LINE	
BP	BYPASS	GOVT	GOVERNMENT	RT	RIGHT							ELECTRICAL LINE	
BRG	BEARING	GPM	GALLONS PER MINUTE	R/W	RIGHT OF WAY							UNDERGROUND ELECTRICAL LINE	
BSMT	BASEMENT	GRTG	GRATING	S	SANITARY SEWER, SOUTH, SWITCH							PIPE FITTINGS	
BV	BUTTERFLY VALVE	GV	GATE VALVE	SAN	SANITARY							FIRE HYDRANT	
C	CHANNEL, COLD	GW	GRAY WATER	SCH	SCHEDULE							GATE VALVE	
C/C, C TO C	CENTER TO CENTER	H	HOT	SD	STORM DRAIN							CLEANOUT	
CAB	CABINET	HB	HOSE BIBB	SECT	SECTION							MANHOLE	
CAP	CAPACITY	HK	HOOK	SER	SERVICE							DROP INLET (CURB AND GRATING TYPES)	
CF	CUBIC FEET	HM	HOLLOW METAL	SH	SHEET							G.M. - GAS METER, W.M. - WATER METER	
CG	CHANGE OF GRADE	HOR, HORIZ	HORIZONTAL	SHTG	SHEETING							TELEPHONE LINE	
C & G	CURB AND GUTTER	HP	HORSE POWER	SIM	SIMILAR							TELEPHONE POLE, GUY AND ANCHOR	
CI	CAST IRON	HPT	HIGH POINT	SPEC	SPECIFICATION							POWER POLE, GUY AND ANCHOR	
CIRC	CIRCULAR	HYD	HYDRANT	SQ	SQUARE							LIGHT POLE	
CKT	CIRCUIT	ID	INSIDE DIAMETER	SS	STAINLESS STEEL							TELEPHONE PEDESTAL	
CL	CENTER LINE	IN	INCH	ST	STREET							BURIED TELEPHONE VAULT	
CLR	CLEAR	INSUL	INSULATION	STA	STATION							ABANDON OR REMOVE	
CONST	CONSTRUCTION	INV	INVERT	STD	STANDARD							PAVED DITCH	
COR	CORNER	IP	IRON PIN	STL	STEEL							DRIVEWAY CULVERT	
CMP	CORRUGATED METAL PIPE	JT	JOINT	STRUCT	STRUCTURAL							CULVERT WITH FLARED END SECTION	
CMU	CONCRETE MASONRY UNITS	JB	JUNCTION BOX	STY	STORY							WATER VALVE	
CND	CONDUIT	L	LENGTH, LONG	SUR	SURVEY							HUB AND TACK	
CO	CLEAN OUT	LF	LINEAL FOOT	SURF	SURFACE							COORDINATE POINT	
COMB	COMBINATION	LG	LONG	S/W	SIDEWALK								
CONC	CONCRETE	LP	LIGHT POLE	SYMM	SYMMETRICAL								
CONN	CONNECT, CONNECTION	LR	LONG RADIUS	T	TREAD, TOP								
CONT	CONTINUOUS, CONTROL	LT	LEFT	T & B	TOP AND BOTTOM								
CONTR	CONTRACTOR	LTC	LIGHTING	TDC	TURNED DOWN CURB								
CONV	CONVEYOR	MACH	MACHINERY	TELE	TELEPHONE								
CP	COORDINATE POINT	MAS	MASONRY	TEMP	TEMPORARY								
CR STONE	CRUSHED STONE	MATL	MATERIAL	THK	THICK								
CTR	CENTER	MAX	MAXIMUM	TP	TELEPHONE POLE								
CULV	CULVERT	MECH	MECHANICAL	TRTD	TREATED								
CY	CUBIC YARD	MFR	MANUFACTURER	TS	TOP OF SLAB								
D	DEPTH OR DEGREE OF CURVE	MH	MANHOLE, MOUNTING HEIGHT	TV	TELEVISION								
DEPT	DEPARTMENT	MIN	MINIMUM	TW	TOP OF WALL								
DF	DRINKING FOUNTAIN	MISC	MISCELLANEOUS	TYP	TYPICAL								
DI	DROP INLET, DUCTILE IRON	MJ	MECHANICAL JOINT	UG	UNDERGROUND								
DIA	DIAMETER	MO	MASONRY OPENING	UON	UNLESS OTHERWISE NOTED								
DIM	DIMENSION	MON	MONUMENT	U.S.C.&G.S.	UNITED STATES COAST AND GEODETIC SURVEY								
DISC	DISCONNECT	MTD	MOUNTED	USGS	UNITED STATES GEOLOGICAL SURVEY								
DMH	DROP MANHOLE	MTG	MOUNTING										
DN	DOWN	MTL	METAL										
DR	DRIVE	MV	MUD VALVE										
DS	DOWN SPOUT	N & C	NAIL AND CAP										
DTL	DETAIL	NIC	NOT IN CONTRACT										
DW,D/W	DRIVEWAY	NO	NUMBER										
DWL	DWELLING	NTS	NOT TO SCALE										
DWG	DRAWING	OC	ON CENTERS										
E	EAST	OD	OUTSIDE DIAMETER										
EA	EACH	OPER	OPERATOR										
E.B.L.	EASTBOUND LANE	OPNG	OPENING										
EF	EACH FACE	OPP	OPPOSITE										
EJ	EXPANSION JOINT	PC	POINT OF CURVE										
EL, ELEV	ELEVATION	PCC	POINT OF COMPOUND										
ELEC	ELECTRICAL	PER	PERIMETER										
ENGR	ENGINEER	PERF	PERFORATED										
ENTR	ENTRANCE	PERP	PERPENDICULAR										
EOL	END OF LINE	PI	POINT OF INTERSECTION										
EP	EDGE OF PAVEMENT	PIV	POST INDICATOR VALVE										
EQ	EQUAL	PL	PLATE, PROPERTY LINE										
EQPT	EQUIPMENT	PLYWD	PLYWOOD										

Mattern & Craig CONSULTING ENGINEERS - SURVEYORS	DESIGNED: NNW		REV.	DATE	DESCRIPTION	BY	APP.	DATE APRIL 1993 COMM. NO. 1165E	ROANOKE CENTRE FOR INDUSTRY & TECHNOLOGY BLUE HILLS CIRCLE ROADWAY & UTILITIES EXTENSION CITY OF ROANOKE, VIRGINIA	SHEET 3
	DRAWN: DSG									
	CHECKED: JMB									
GENERAL ABBREVIATIONS AND LEGEND								Water Dept 1165E-26 PLAN NO. 6242		