DESCRIPTION	FYISTING								
	DESCRIPTION EXISTING PROPOSED								
5' OR 10' CONTOUR LINE									
1' OR 2' CONTOUR LINE	1051								
RIGHT-OF-WAY	ROW								
SILT FENCE									
INLET PROTECTION		(IP)							
EDGE OF PAVEMENT									
STORM SEWER	15" RCP	A STATE OF THE STA							
SANITARY SEWER	8" CONC.								
WATER LINE									
GAS LINE									
OVERHEAD ELECTRIC		THE STATE OF THE LINE AND A SECOND STATE OF THE SECOND STATE OF TH							
UTILITY POLE	Ś								
LIGHT POLE	A								
CLEANOUT	0	<i>co</i>							
CATCH BASIN									
HYDRANT	-								
WATER METER	*3								
WATER VALVE/CONTROL VALVE	W	•							
SANITARY MANHOLE	S	S OR							
STORM MANHOLE	(D)								
SIGN - SINGLE FACED	~ g··	• OR ••							
SIGN - DOUBLE FACED	Ħ	- OR -							
FULL DEPTH PAVEMENT REPLACEMENT									
MILL & OVERLAY PAVEMENT									
PERMANENT UTILITY EASEMENT									
TEMPORARY CONSTRUCTION EASEMENT									
TREES, SHRUBS, BUSHES		XX-3 XX-5							
DETAIL CALLOUT X DETAIL IDENTIFICATION NO. X-X SHEET NO. WHERE DETAIL IS SHOWN									
DETAIL IDENTIFICATION NO.	X DETAIL TITLE								

GENERAL NOTES

- THE "OWNER" IS THE WESTERN VIRGINIA WATER AUTHORITY (AUTHORITY). THE TERMS "OWNER" AND "AUTHORITY" ARE USED INTERCHANGEABLY IN THESE CONTRACT DOCUMENTS.
- 2. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S ENGINEERING COORDINATOR, MARK SINK, AT 540-537-3460 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION.
- 3. A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED AT LEAST ONE (1) DAY PRIOR TO ANY CONSTRUCTION.
- 4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE SAFETY AND FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL HEALTH AND SAFETY CODES, LAWS, REGULATIONS AND ORDINANCES INCLUDING, BUT NOT LIMITED TO THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- 5. CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS PRIOR TO COMMENCING WORK AND SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- 6. SEWER LATERALS ARE SHOWN IN ASSUMED LOCATIONS. CONTRACTOR SHALL COORDINATE WITH THE AUTHORITY FOR MARKING OF ALL LATERALS PRIOR TO CONSTRUCTION. CONTRACTOR TO VERIFY ACTIVE LATERALS WITH THE AUTHORITY ASSISTANCE. CONTRACTOR SHALL LOCATE EXISTING ACTIVE LATERALS AND REPLACE LATERAL AND CLEANOUT AT PROPERTY LINE AND CONNECT TO EXISTING PRIVATE LATERAL. LATERALS SHALL BE INSTALLED WITH MINIMUM COVER OF 3' AND A MINIMUM SLOPE OF 0.50%. LATERALS SHALL BE EQUAL TO OR GREATER THAN THE PIPE DIAMETER @ THE PROPERTY LINE OR EASEMENT.
- 7. ALL EXISTING UTILITIES MAY NOT BE SHOWN OR MAY NOT BE SHOWN IN THEIR EXACT LOCATION. CONTRACTOR SHALL LOCATE ALL UTILITIES AND DETERMINE ALL INVERTS PRIOR TO CONSTRUCTION TO ALLOW FOR ADJUSTMENTS DUE TO CONFLICTS WITH OTHER UTILITIES. THE CONTRACTOR SHALL COMPLY WITH THE VIRGINIA STATE WATER WORKS REGULATIONS, SECTION 12VAC5-590-1150, AND THE VIRGINIA STATE SEWAGE COLLECTION AND TREATMENT REGULATIONS WHERE LINES CROSS.
- 8. THE CONTRACTOR SHALL HAVE A VALID MISS UTILITY TICKET PRIOR TO EXCAVATION. CONTACT MISS UTILITY AT 1-800-552-7001.
- 9. PRIOR TO CONSTRUCTION IN THE RIGHT-OF-WAY, ALL APPLICABLE PERMITS FROM THE GOVERNING JURISDICTIONS AND/OR AGENCIES MUST BE OBTAINED AND A COPY KEPT ON THE PROJECT SITE. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES OF SUCH, PRIOR TO COMMENCING WORK.
- 10. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS FROM CITY OF ROANOKE, ROANOKE COUNTY AND/OR VDOT.
- 11. WORK IN THE RIGHT-OF-WAY IS TO BE PERFORMED PER THE CITY OF ROANOKE RIGHT-OF-WAY EXCAVATION AND RESTORATION STANDARDS OR VDOT AS APPLICABLE.
- 12. CONTRACTOR SHALL PROVIDE ANY SHORING REQUIRED TO PROTECT EXISTING FACILITIES DURING EXCAVATION FOR INSTALLATION OF PROPOSED STRUCTURES AND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING DESIGN. DESIGN SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE COMMONWEALTH OF VIRGINIA. ALL ANTICIPATED COSTS FOR SHORING AND DESIGN SHALL BE INCLUDED IN THE CONTRACTOR'S BASE BID PRICE
- 13. FOR PROJECTS REQUIRING TRAFFIC CONTROL IN THE CITY OF ROANOKE, NOTIFY CITY AT LEAST TWO WEEKS IN ADVANCE OF REQUIRING TRAFFIC CONTROL. CONTRACTOR SHALL CONTACT THE CITY FOR A LANE CLOSURE PERMIT. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT MUTCD MANUAL AND THE VDOT WORK AREA PROTECTION MANUAL UNLESS OTHERWISE SPECIFIED BY THE CITY.
- 14. FOR PROJECTS REQUIRING TRAFFIC CONTROL IN THE ROANOKE COUNTY, NOTIFY VDOT AT LEAST TWO WEEKS IN ADVANCE OF REQUIRING TRAFFIC CONTROL. CONTRACTOR SHALL CONTACT VDOT FOR A LANE CLOSURE PERMIT. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT MUTCD MANUAL AND THE VDOT WORK AREA PROTECTION MANUAL UNLESS OTHERWISE SPECIFIED BY VDOT.
- 15. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE WESTERN VIRGINIA WATER AUTHORITY (AUTHORITY) AVAILABLE AT WWW.WESTERNVAWATER.ORG OR BY CONTACTING THE AUTHORITY AT 540-853-5700. THE PROJECT SHALL ALSO COMPLY WITH THE GOVERNING JURISDICTION'S STANDARDS AND OTHER AGENCY STANDARDS (E.G., VDOT, DEQ, DCR, VDH, ETC.) WHERE APPLICABLE. CONTRACTOR SHALL PROVIDE A COPY OF THE CONTRACTOR'S DESIGNATED CERTIFIED VIRGINIA RESPONSIBLE LAND DISTURBER CERTIFICATE TO THE OWNER PRIOR TO CONSTRUCTION.
- 16. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING ALL VEHICLES AND EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE STREETS ARE KEPT IN A CLEAN, MUD— AND DUST—FREE CONDITION AT ALL TIMES.
- 17. CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED IN ACCORDANCE WITH THE VIRGINIA LITTER CONTROL ACT. PRIOR TO COMMENCING WORK, THE CONTRACTOR'S CERTIFIED RESPONSIBLE LAND DISTURBER SHALL OBTAIN AN EROSION AND SEDIMENT CONTROL PERMIT FOR THE PROJECT FROM THE LOCAL GOVERNING JURISDICTION AND STORMWATER MANAGEMENT PERMIT FROM DCR (IF REQUIRED). ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND SHALL BE INSTALLED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE ACCESS TO ALL PROPERTIES DURING CONSTRUCTION AND SHALL MAINTAIN SAFE ACCESSIBILITY TO FIRE HYDRANTS AT ALL TIMES.
- 18. THE CONTRACTOR SHALL NOT EXCAVATE MORE TRENCH LENGTH THAN CAN BE RESTORED WITHIN THE SAME WORK DAY. ALL TRENCHES SHALL BE BACKFILLED OR PLATED AT THE END OF EACH WORK DAY OR WHEN THE CONTRACTOR IS NOT ON SITE.
- 19. CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION; INCLUDING ACCESS AND SITE ROADWAYS, DITCHES, DRAINAGE STRUCTURES AND OTHER EXISTING FEATURES TO THEIR ORIGINAL CONDITION OR TO A CONDITION SATISFACTORY TO THE ENGINEER.

- TY" ARE

 20. ALL REQUIRED TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED BY THE
 - 21. CONSTRUCTION CREWS MUST ALLOW FOR SOLID WASTE MANAGEMENT TO SERVICE TRASH, RECYCLING, BULK, AND BRUSH FOR THE ENTIRE PROJECT AREA.
 - 22. SEWER PIPE MATERIAL SHALL BE PER AUTHORITY STANDARDS UNLESS OTHERWISE INDICATED ON THE PLANS.

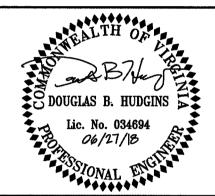
CONTRACTOR IN ACCORDANCE WITH THE APPROVED SEDIMENT AND EROSION CONTROL PLAN.

- 23. PROFILES SHOW SEWER LENGTH FROM MANHOLE CENTER TO MANHOLE CENTER. HOWEVER, PAYMENT SHALL BE MADE FOR LENGTH FROM INSIDE MANHOLE TO INSIDE MANHOLE.
- 24. SEWER SLOPES ARE CALCULATED BASED ON SEWER LENGTH FROM MANHOLE CENTER TO MANHOLE CENTER. MANHOLE PENETRATION INVERTS AND SEWER SLOPES SHALL BE COORDINATED IN THE FIELD.
- 25. CONTRACTOR SHALL BE RESPONSIBLE FOR THE STAKING AND LAYOUT OF ALL PROPOSED STRUCTURES AND IMPROVEMENTS.
- 26. PORTIONS OF THE SANITARY SEWER TO BE REPLACED PASS UNDER EXISTING STORM SEWER SYSTEMS. DURING CONSTRUCTION CONTRACTOR SHALL PROTECT, SUPPORT, AND/OR REMOVE/REPLACE EXISTING PIPE DURING SANITARY SEWER PIPE REPLACEMENT. CONTRACTOR IS ENCOURAGED TO PERFORM THESE TASKS ONLY DURING DRY WEATHER TO AVOID COMPROMISING OF STORM SEWER SYSTEM DURING A RAINFALL EVENT.
- 27. ALL DISTURBED AREAS SHALL BE RETURNED TO LIKE OR BETTER CONDITION WHETHER THEY ARE GRASSED, LANDSCAPED, GRAVELED OR OTHER. ANY DISTURBED PLANTINGS SHALL BE REPLACED BY LIKE SPECIES.
- 28. PAVEMENT SHALL BE IN ACCORDANCE WITH ROANOKE CITY OR VDOT STANDARDS AS APPLICABLE.
- 29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING ALL MANHOLES AFTER PAVING. MANHOLE RIMS SHALL BE INSTALLED TO GRADE AND FLUSH WITH THE FINAL PAVEMENT.
- 30. UN—REPAIRED ROADWAYS OPENED TO TRAFFIC SHALL HAVE, AT A MINIMUM, COMPACTED AGGREGATE MATERIAL VDOT 21A OR 21B FLUSH WITH THE ADJACENT ROADWAY SURFACE AND SHALL BE INSPECTED AND REPAIRED ON A DAILY BASIS. SOME AREAS WILL REQUIRE A TEMPORARY PATCH UNTIL FINAL PAVING CAN BE COMPLETED.
- 31. ANY FENCING DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY REPLACED OR SUPPLEMENTED BY TEMPORARY FENCING TO MAINTAIN A SECURE SITE THROUGHOUT CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION ACTIVITIES, FENCING SHALL BE RESTORED TO ORIGINAL CONDITIONS.
- 32. A MINIMUM OF 18" SEPARATION MUST BE MAINTAINED BETWEEN UTILITIES AT ALL PIPE CROSSINGS.
- 33. ANY TREES GREATER THAN 2" IN DIAMETER SHALL NOT BE REMOVED WITHOUT WRITTEN PERMISSION FROM THE
- 34. THE CONTRACTOR SHALL PERFORM ALL MANHOLE CONNECTIONS. THE CORING AND BOOT INSTALLATION SHALL BE INSPECTED AND APPROVED BY AN AUTHORITY CONSTRUCTION INSPECTOR PRIOR TO ACTIVATING SEWER SERVICE. THE CONTRACTOR SHALL CONTACT THE AUTHORITY'S CONSTRUCTION INSPECTOR RESPONSIBLE FOR THE PROJECT AT LEAST ONE (1) DAY PRIOR TO INITIATING THE MANHOLE CONNECTION.
- 35. THE CONTRACTOR SHALL SUPPLY THE AUTHORITY WITH CORRECT AS—BUILT PLANS BEFORE SUBSTANTIAL COMPLETION WILL BE GRANTED.
- 36. HORIZONTAL DATUM IS VIRGINIA STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD 83. VERTICAL DATUM IS NAVD 88.
- 37. FIELD CHANGES SHALL BE APPROVED BY THE AUTHORITY'S ENGINEERING DIVISION AND ENGINEER PRIOR TO SUCH CONSTRUCTION.
- 38. ALL WORK TO BE CONTAINED WITHIN THE EXISTING RIGHT OF WAY AND/OR EASEMENTS.
- 39. ALL EXCAVATION, INCLUDING ROCK, SHALL BE UNCLASSIFIED. NO ADDITIONAL PAYMENT WILL BE MADE FOR ROCK. PER WVWA STANDARD SPECS, SECTION CS-6, "ALL ROCK EXCAVATION SHALL BE PAID FOR AS AN INCIDENTAL PART OF THE ITEMS ON WHICH THE WORK IS DONE".
- 40. ALTHOUGH SUCH WORK MAY NOT BE SPECIFICALLY SHOWN, THE CONTRACTOR SHALL FURNISH AND INSTALL ANY SUPPLEMENTAL OR MISCELLANEOUS ITEMS, APPURTENANCES AND DEVICES INCIDENTAL TO OR NECESSARY FOR A SOUND AND COMPLETELY OPERATIONAL INSTALLATION.
- 41. EXISTING PIPING THAT IS NOT TO BE REUSED CAN BE ABANDONED IN PLACE. ABANDONED PIPES THAT HAVE CONVEYED SEWAGE SHALL BE ABANDONED IN ACCORDANCE WITH THE VIRGINIA SCAT REGULATIONS.
- 42. THE PLANS AND SPECIFICATIONS SHALL GOVERN FOR THIS PROJECT; HOWEVER, IF THESE DOCUMENTS DO NOT COVER A PARTICULAR ITEM OR PORTION OF THE WORK, THE WESTERN VIRGINIA REGIONAL DESIGN AND CONSTRUCTION STANDARDS, LATEST EDITION SHALL BE FOLLOWED.
- 43. THE CONTRACTOR SHALL FIELD VERIFY SIZE, LOCATION, AND INVERT OF ALL LATERALS, SUBMAINS, AND MAINS ENTERING MANHOLES AND PROVIDE INFORMATION AS PART OF THE SHOP DRAWINGS SUBMITTAL.
- 44. ACCESS TO PRIVATE, PUBLIC, AND COMMERCIAL BUSINESSES AFFECTED BY THE UTILITY CONSTRUCTION SHALL BE MAINTAINED AT ALL TIMES DURING THEIR RESPECTIVE NORMAL BUSINESS HOURS.
- 45. ALL SANITARY SEWER LINES IN PRIVATE ASPHALT SHALL BE BACKFILLED WITH STONE AS OUTLINED ON DETAIL G-12.

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540.552.5548 • ww	w.chacompanies.com						



WATER AUTHORITY



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING IS STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERINI ENGINEER, ARCHITECT, DANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

WESTERN VIRGINIA WATER AUTHORITY PETERS CREEK ROAD SANITARY SEWER REPLACEMENT

No.	Submittal / Revision	App'd.	Ву	Date
1	ADDENDUM 2		DBH	06/27/18
2	CONSTRUCTION ISSUE		DBH	10/30/18

LEGEND AND GENERAL NOTES

esigned By:	Drawn By:	Checked E
SCF	RAS	DBH
Issue Date:	Project No:	Scale:
03-01-18	31237	NONE

G-003

					TARLE OF ARREVATIONS (NOT A	VII ADDDE	MATIONS MAY HAVE DEEN HEED	1			
	AMERICAN ASSOCIATION OF STATE	CFM	CUBIC FEET PER MINUTE	TFT	TABLE OF ABBREVIATIONS (NOT A	ALL ADDRE I MON	MONUMENT HAVE BEEN USED	RCCP	REINFORCED CONCRETE CULVERT PIPE	LTC	TOP OF CURB
AASHTO	HIGHWAY AND TRANSPORTAION OFFICIALS	CI	CURB INLET	GAL	GALLON	N	NORTH	RCP	REINFORCED CONCRETE PIPE	TE	TEMPORARY CONSTRUCTION EASEMENT
ABS	PLASTIC PIPE	CIP	CAST IRON PIPE	GPM	GALLONS PER MINUTE	NAVAIDS	NAVIGATIONAL AIDS	RD	ROOF DRAIN	TFI	TELEPHONE
AC	ACRE	CL	CLASS OR CENTERLINE	GRD	GROUND OR GRADE	NIC	NOT IN CONTRACT	REINE	REINFORCING	TEMP	TEMPORARY
ACCM	ASPHALT COATED CORRUGATED METAL	CMP	CORRUGATED METAL PIPE	GV	GATE VALVE	NOTAM	NOTICE TO AIRMEN	REQD	REQUIRED	TF	TOP OF FRAME
AFF	ABOVE FINISHED FLOOR	СО	CLEANOUT	HDPE	HIGH DENSITY POLYETHELENE PIPE	0/\$	OFFSET	ROW	RIGHT—OF—WAY	TRANS	TRANSFORMER OR TRANSVERSE
ALT	ALTERNATE	CONC	CONCRETE	HORIZ	HORIZONTAL	OFA	OBJECT FREE AREA	ROW W/A	RIGHT-OF-WAY WITH ACCESS	TSA	TAXIWAY SAFETY AREA
ASZ	AIRPORT SAFETY ZONE	CR	COUNTRY ROAD	HP	HIGH POINT OR HORSE POWER	OFZ	OBSTACLE FREE ZONE	ROW WO/A	RIGHT-OF-WAY WITHOUT ACCESS	TV	TELEVISION
APPROX	APPROXIMATE	CSP	CORRUGATED STEEL PIPE	HPS	HIGH PRESSURE SODIUM	OAR	OWNER'S AUTHORIZED REPRESENTATIVE	RPM	REVOLUTIONS PER MINUTE	TWY, T/W	TAXIWAY
ASPH	ASPHALT	CTR	CENTER	HR	HAND RAIL OR HOUR	PL	PROPERTY LINE	RR	RAILROAD	TYP	TYPICAL
ATCT	AIR TRAFFIC CONTROL TOWER	CULV	CULVERT	HT	HEIGHT	PC	POINT OF CURVATURE	RSA	RUNWAY SAFETY AREA	UD, U/D	UNDERDRAIN
AWG	AMERICAN WIRE GAUGE	CV	CHECK VALVE	HW	HEADWALL	PE	PERMANENT UTILITY EASEMENT	RT	RIGHT	U(ND)G	UNDERGROUND
BL	BASELINE	CY	CUBIC YARD	HYD	HYDRANT	PERF	PERFORATED	RW	RETAINING WALL	UTIL	UTILITY
BB	BOTTOM OF BANK OR BERM	D	DRAIN	IN	INCH(ES)	PERP	PERPENDICULAR	RWY, R/W	RUNWAY	VC	VERTICAL CURVE
BC	BOTTOM OF CURB	DI	DROP INLET	IP(F)	IRON PIPE (FOUND)	PP	POWER POLE, POWER PANEL	S	SOUTH	VCP	VITRIFIED CLAY PIPE
BFE	BASEMENT FLOOR ELEVATION	DIA	DIAMETER	JB	JUNCTION BOX	PPM	PARTS PER MILLION	SCH	SCHEDULE	VERT	VERTICAL
BLDG	BUILDING	DIP	DUCTILE IRON PIPE	LAT	LATITUDE	PRC	POINT OF REVERSE CURVATURE	SF	SQUARE FOOT OR SQUARE FEET	VOL	VOLUME
ВМ	BENCHMARK	DWG	DRAWING	LB	POUND	PSF	POUNDS PER SQUARE FOOT	SH	STATE HIGHWAY	W	WEST
BOT	ВОТТОМ	Ε	EAST	LF	LINEAR FOOT OR LINEAR FEET	PSI	POUNDS PER SQUARE INCH	SHT	SHEET	W/	WITH
BRL	BUILDING RESTRICTION LINE	EA	EACH	LONG	LONGITUDE	PT	POINT OR POINT OF TANGENCY	SMH	SANITARY MANHOLE	WF	WOOD FRAME
BSMT	BASEMENT	EJ	EXPANSION JOINT	I D	LAMP POST, LIGHT POLE, LIGHT PANEL	51/0	POINT OF VERTICAL CURVATURE	SPECS	SPECIFICATIONS	W/O	WITHOUT
BVC	BEGINNING OF VERTICAL CURVE	ELEC	ELECTRIC	LI	OR LOW POINT	PVC	OR POLYVINYL CHLORIDE	SS	SANITARY SEWER	ww	WING WALL
BW	BOTTOM OF WALL	ELEV	ELEVATION	LT	LEFT	PVI	POINT OF VERTICAL INTERSECTION	STA	STATION OR STATIONARY		WELDED WIDE EADIO
С	CHORD	EOP	EDGE OF PAVEMENT	MFR	MANUFACTURER	PVT	POINT OF VERTICAL TANGENCY	STMH	STORM MANHOLE	WWF	WELDED WIRE FABIC OR WOVEN WIRE FABRIC
CAP	CORRUGATED ALUMINIM PIPE	FD	FLOOR DRAIN	МН	MANHOLE	PWR	POWER	STY	STORY		ON WOVEN WIRE PADRIC
СВ	CATCH BASIN	FDN	FOUNDATION	MIN	MINIMUM	R	RADIUS	SY	SQUARE YARD		
CF	CUBIC FOOT OR CUBIC FEET	FFE	FINISHED FLOOR ELEVATION	MISC	MISCELLANEOUS	RAD	RADIAL	TAN	TANGENT		