



INSTALLATION REQUIREMENTS INCLUDING CONTRACTOR TESTING AND FILL LIFTS SEE SECTION 208-TRENCH EXCAVATION AND BACKFILL

MINIMUM TRENCH WIDTH IS RELATED TO DESIGN REQUIREMENTS AND SHALL BE INDICATED ON THE PLAN DRAWINGS. SEE SECTION 208-TRENCH EXCAVATION AND BACKFILL

GRANULAR BACKFILL OR SELECT BACKFILL OR BACKFILL WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) OR AS APPROVED BY THE ENGINEER SEE NOTE 1

DEPTH OF COVER IS RELATED TO DESIGN REQUIREMENTS AND SHALL BE INDICATED ON THE PLAN DRAWINGS. SEE SECTION 208-TRENCH EXCAVATION AND BACKFILL

NOTES:

1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

RTC STD DWG 503

ABBREVIATIONS

AB	ABANDONED	OC	ON CENTER
AC	ASPHALTIC CONCRETE	OD	OUTSIDE DIAMETER
ACP	ASBESTOS CEMENT PIPE	OH	OVERHEAD
AIM	AREA ISOLATION MODULE	OHP	OVERHEAD POWER
BLVD	BOULEVARD	P	POWER
BM	BENCHMARK	PAOP	POTENTIAL ALLOWABLE OPERATING PRESSURE
BMI	BLACK MOUNTAIN INDUSTRIAL	PCC	PORTLAND CEMENT CONCRETE
BO	BLOW OFF	PE	POLYETHYLENE PIPE
BTU	BRITISH THERMAL UNIT	PH	POT HOLE
BWC	BASIC WATER COMPANY	PHMSA	PIPELINE & HAZARDOUS MATERIALS SAFETY ADMINISTRATION
COBC	CITY OF BOULDER CITY	PL	PROPERTY LINE
CC	CLARK COUNTY	PIC	POTENTIAL IMPACT CIRCLE
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING	PLS	PRESSURE LIMITING STATION
CCRFGD	CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT	PP	POWER POLE
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	PQF	PREQUALIFIED FITTING
CIP	CAST IRON PIPE	PVC	POLYVINYL CHLORIDE
CL	CENTERLINE	RAM	RISK ASSESSMENT MODEL
CLV	CITY OF LAS VEGAS	RC	REINFORCED CONCRETE
CNLV	CITY OF NORTH LAS VEGAS	RCP	REINFORCED CONCRETE PIPE
COH	CITY OF HENDERSON	SD	STORM DRAIN
DET	DETAIL	SDMH	STORM DRAIN MANHOLE
DI	DUCTILE IRON	SDR	STANDARD DIMENSION RATIO
DIA	DIAMETER	SF	SQUARE FOOT
DIMP	DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM	SHT	SHEET
DNR	DOES NOT REGISTER	SHP	STEEL HIGH PRESSURE PIPE
DWG	DRAWING	SMYS	SPECIFIED MAXIMUM YIELD STRENGTH
EFV	EXCESS FLOW VALVE	SNWA	SOUTHERN NEVADA WATER AUTHORITY
EG	EXISTING GROUND	SS	SANITARY SEWER
EHDD	EFFECTIVE HEATING DEGREE DAY	SST	STAINLESS STEEL
ELEC	ELECTRICAL	ST	STREET
ELEV	ELEVATION	STA	STATION
EMRS	ELECTRONIC MAPPING RECORDS SYSTEM	STD	STRENGTH TEST DRAWING
EPR	ELECTRONIC PRESSURE RECORDERS	STL	STEEL
ESMT	EASEMENT	SWG	SOUTHWEST GAS
EX	EXISTING	TEL	TELEPHONE
FERC	FEDERAL ENERGY REGULATORY COMMISSION	TB	THRUST BLOCK
FOS	FACILITY OUT OF SERVICE	TOP	TOP OF PIPE
FH	FIRE HYDRANT	TP	TEST POINT
GIR	GAS INFRASTRUCTURE REPLACEMENT	TRIMP	TRANSMISSION INTEGRITY MANAGEMENT PROGRAM
GPR	GAS PRESSURE REGULATOR	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
HCA	HIGH CONSEQUENCE AREA	UOC	UNUSUAL OPERATING CONDITIONS
HDD	HEATING DEGREE DAY	UOP	UNIT OF PROPERTY
HDPE	HIGH DENSITY POLYETHYLENE PIPE	UPRR	UNION PACIFIC RAILROAD
HP	HIGH PRESSURE	USD	UNIFORM STANDARD DRAWING
HERS	HOME ENERGY RATING SYSTEM	VCP	VITRIFIED CLAY PIPE
HOP	HISTORIC OPERATING PROCEDURE	VERT	VERTICAL
HVTT	HIGH VOLUME TAPPING TEE	VG	VALLEY GUTTER
ID	INSIDE DIAMETER	VSP	VINTAGE STEEL PIPE
IN	INCH(ES)	W	WATER
IPS	IRON PIPE SIZE	WMS	WORK MANAGEMENT SYSTEM
IS	IDENTIFIED SITE	WR	WORK REQUEST
JT	JOINT TRENCH	WT	WALL THICKNESS
KRG	KERN RIVER GAS COMPANY	WW	WATER VALVE
LDLPE	LARGE DIAMETER COILED POLYETHYLENE PIPE	YD	YARD(S)
LVVWD	LAS VEGAS VALLEY WATER DISTRICT		
MAOP	MAXIMUM ALLOWABLE OPERATING PRESSURE		
MCFH	THOUSAND CUBIC FEET PER HOUR		
MH	MANHOLE		
MOP	MAXIMUM OPERATING PRESSURE		
MSA	METER SET ASSEMBLY		
MVP	MAPPING VERIFICATION PROCEDURE		
NAP	NOT A PART		
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION		
NTSB	NATIONAL TRANSPORTATION SAFETY BOARD		
NTS	NOT TO SCALE		

CONSTRUCTION NOTES

1. SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES LOCATE IN FIELD.
2. ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS.
3. DO NOT SCALE THIS DRAWING.
4. SEE AC'S FOR SERVICE REPLACEMENT.
5. CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
6. GAS MAINS SHALL BE PURGED PER OPERATIONS MANUAL.
7. ABANDONED SERVICE NO ACTION REQUIRED.
8. REPLACE ALL ACTIVE SERVICES INCLUDING AA, PVC, M7000 PE, M8000 PE, EXCEPT WHERE EXISTING M8100 PE SERVICES ARE VERIFIED, INSPECTED, AND APPROVED FOR TIE-OVER BY SWG INSPECTOR.
9. EXISTING SERVICES, VERIFICATION, AND INSPECTION REQUIRED FROM MAIN TO RISER. TIE INTO NEW MAIN IF APPROVED BY SWG INSPECTOR. REPLACE ALL AA, PVC, M7000 PE, AND M8000 PE SERVICES. M8100 PE SERVICES TO BE VERIFIED, INSPECTED AND APPROVED BY SWG INSPECTOR.
10. EXISTING SERVICE, UNKNOWN TYPE, SIZE, AND LOCATION TO BE VERIFIED.
11. REPLACEMENT SERVICES TO BE SINGLE OR BRANCHED. NO CROSS-LOT REPLACEMENT SERVICES PERMITTED.
12. REPLACE ALL ANODE RISERS WITH ANODELESS RISERS.
13. ALL EXISTING UTILITY LOCATION TO BE VERIFIED PRIOR TO START OF CONSTRUCTION.
14. CONTACT ENGINEERING FOR BYPASS INFORMATION.
15. ALL MAIN TIE-INS REQUIRING TEES ARE TO BE FULL-FLOW TEES UNLESS OTHERWISE STATED.
16. ALL SHORING REQUIREMENTS SHALL CONFORM TO APPLICABLE PORTIONS OF THE OPERATIONS MANUAL.
17. REQUEST FOR SURVEYING AND/OR STAKING WILL BE SUBMITTED TO ENGINEERING 72 HOURS IN ADVANCE, MINIMUM.
18. THE FOLLOWING VALVE(S) ARE TO BE ABANDONED ON THIS WORK REQUEST:
19. TRENCHING AND PAVEMENT REPLACEMENT SHALL CONFORM WITH RTC STANDARD 503. AND UNIFORM STANDARD SPEC SECTION 208.

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:
 503



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