

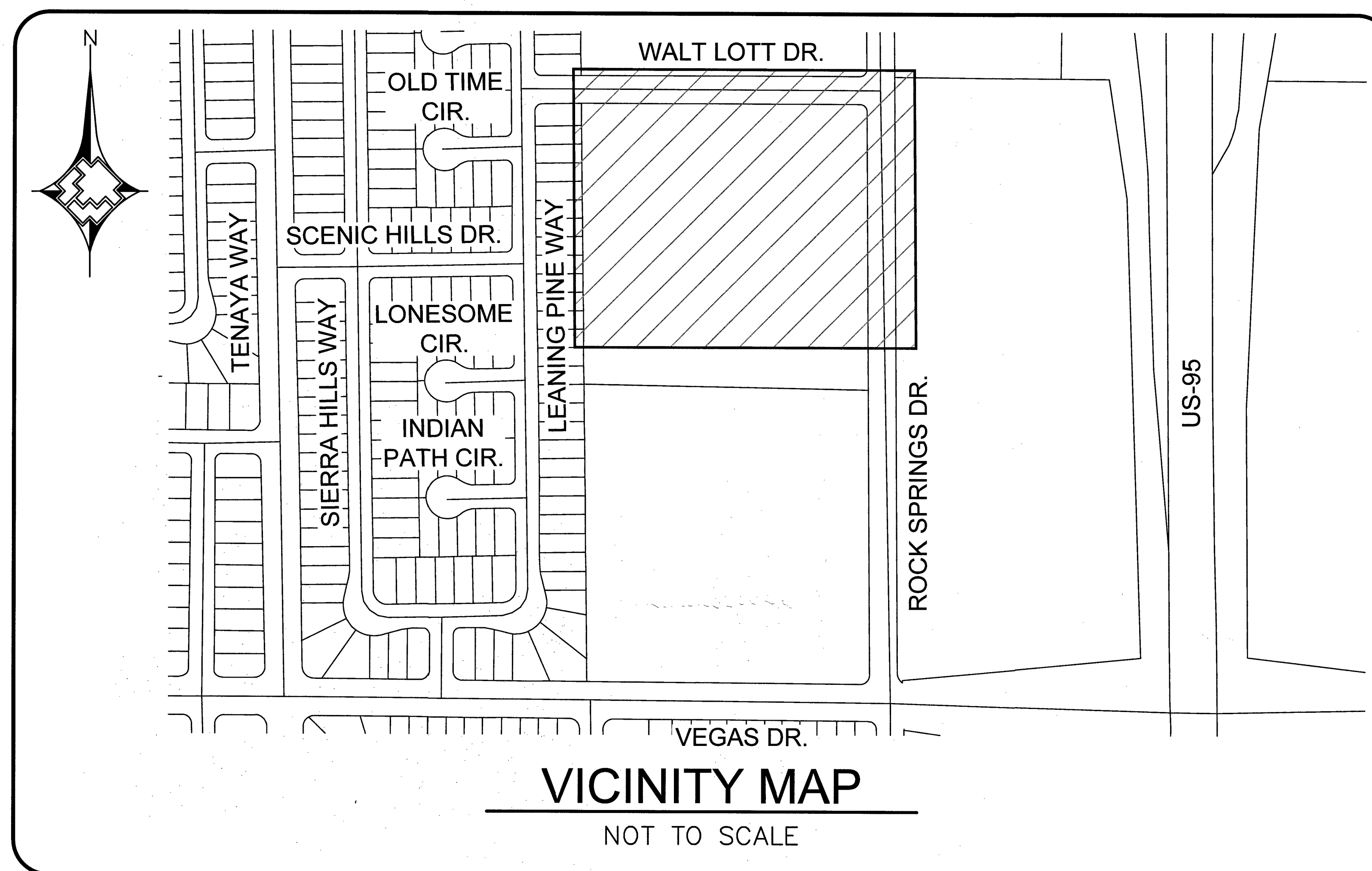
City of
Las Vegas

Total footage located in Public ROW 16'

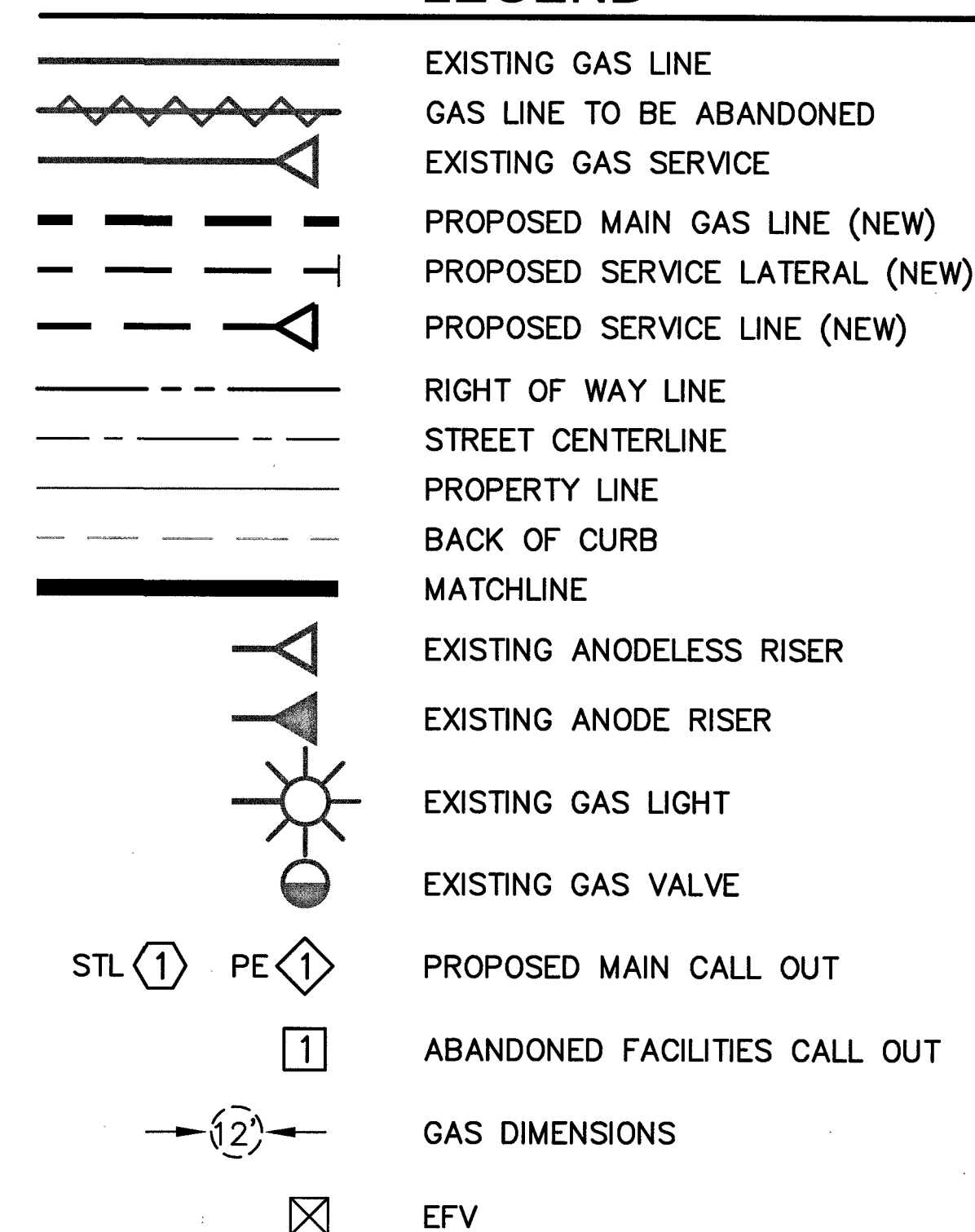
APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV
EASEMENTS ONLY. OBTAINING PERMISSION OR
EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY
IS THE RESPONSIBILITY OF THE UTILITY.

Approval _____ Date 2 28 18
L 18 - 00204 10N/7200 - GAT

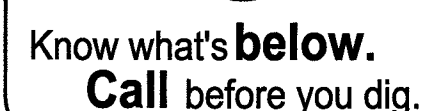


LEGEND



SHEET INDEX

1. COVER SHEET
2. ABBREVIATIONS & NOTES
3. MATERIALS & SIGNATURES
4. DESIGN PLAN
5. TYPICAL SWPPP BMP DETAILS

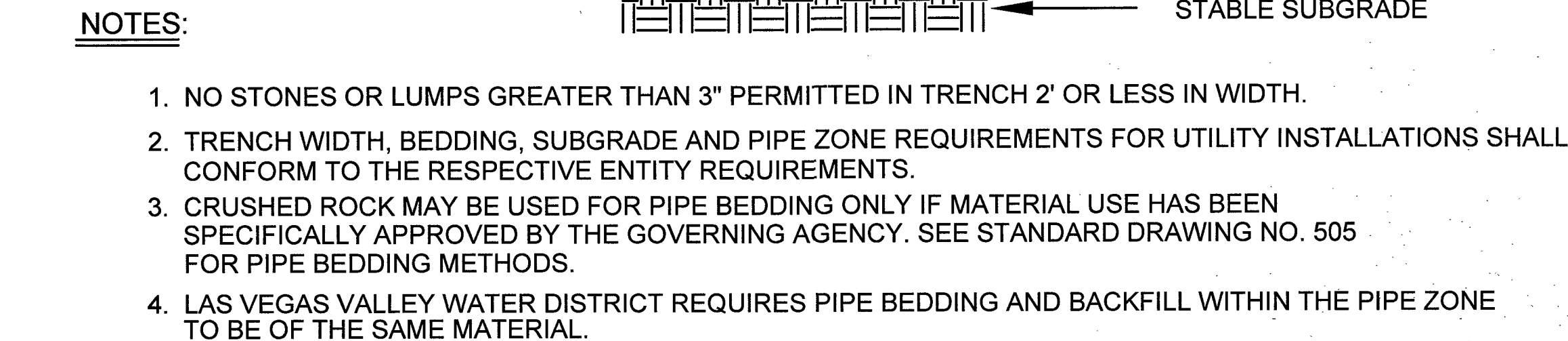


CUSTOMERS 1

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RECEIVED
MAY 14 2013
City of Las Vegas
and Department

DOC_3486163 118-00204 2/6/18



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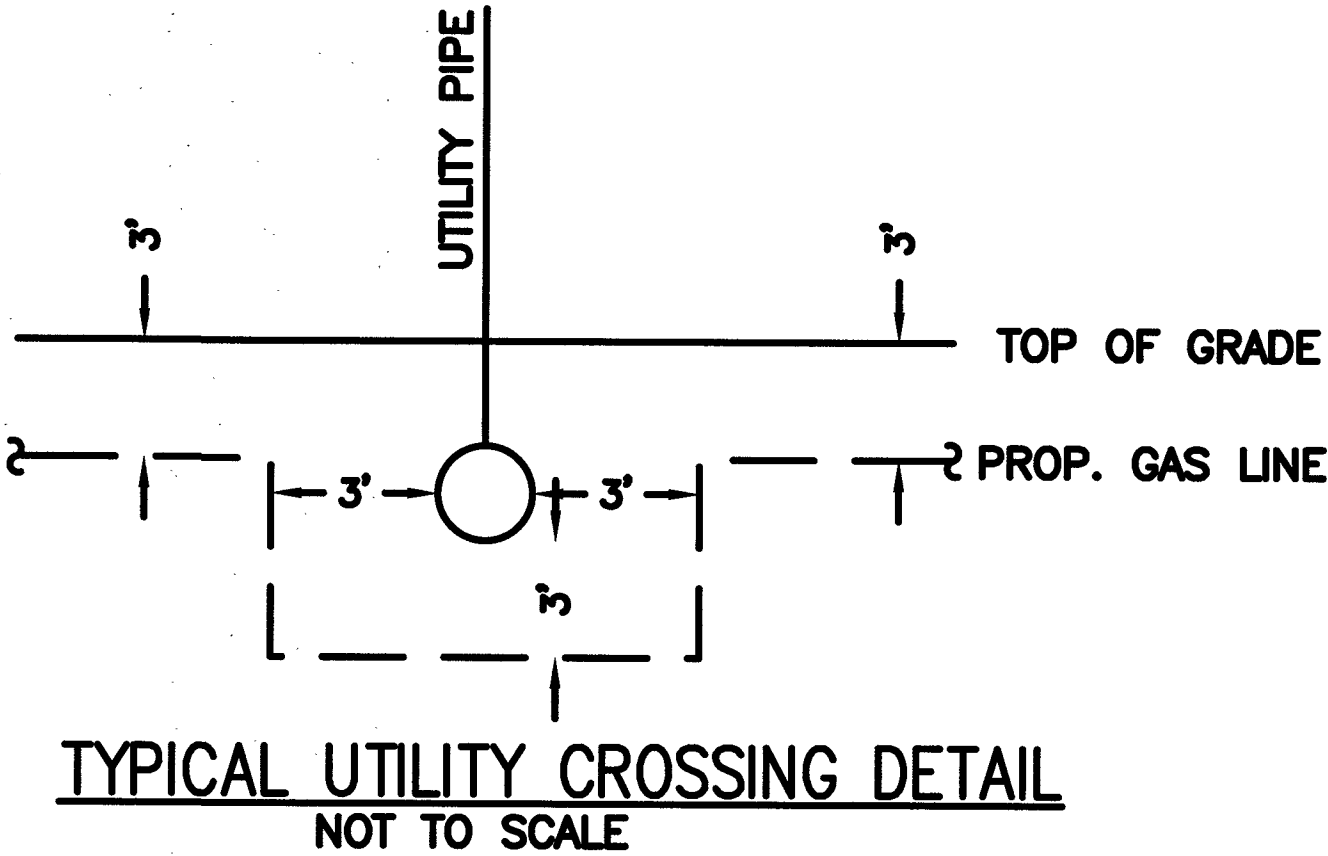
AB	ABANDONED	OC	ON CENTER
AC	ASPHALTIC CONCRETE	OD	OUTSIDE DIAMETER
ACP	ASBESTOS CEMENT PIPE	OH	OVERHEAD
AIM	AREA ISOLATION MODULE	OHF	OVERHEAD POWER
BLVD	BOULEVARD	P	POWER
BM	BENCHMARK	PAOP	POTENTIAL ALLOWABLE OPERATING PRESSURE
BMI	BLACK MOUNTAIN INDUSTRIAL	PCC	PORTLAND CEMENT CONCRETE
BO	BLOW OFF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

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. TRENCHING AND PAVEMENT REPLACEMENT SHALL CONFORM WITH RTC STANDARD 503, 500.5, AND UNIFORM STANDARD SPEC SECTION 208.

A2 503

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MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES				
ITEM#	QTY. (DESIGN)	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
1	406'		100-5101	2" PE SERVICE
2	1		160-8174	4"X2" PE HVTT
3	1		160-9271	2" PE COUPLING W/ 5500 EFV
4	2		140-3067	2" PE 90 DEGREE ELBOW
5	1		161-7661	2" PE RISER

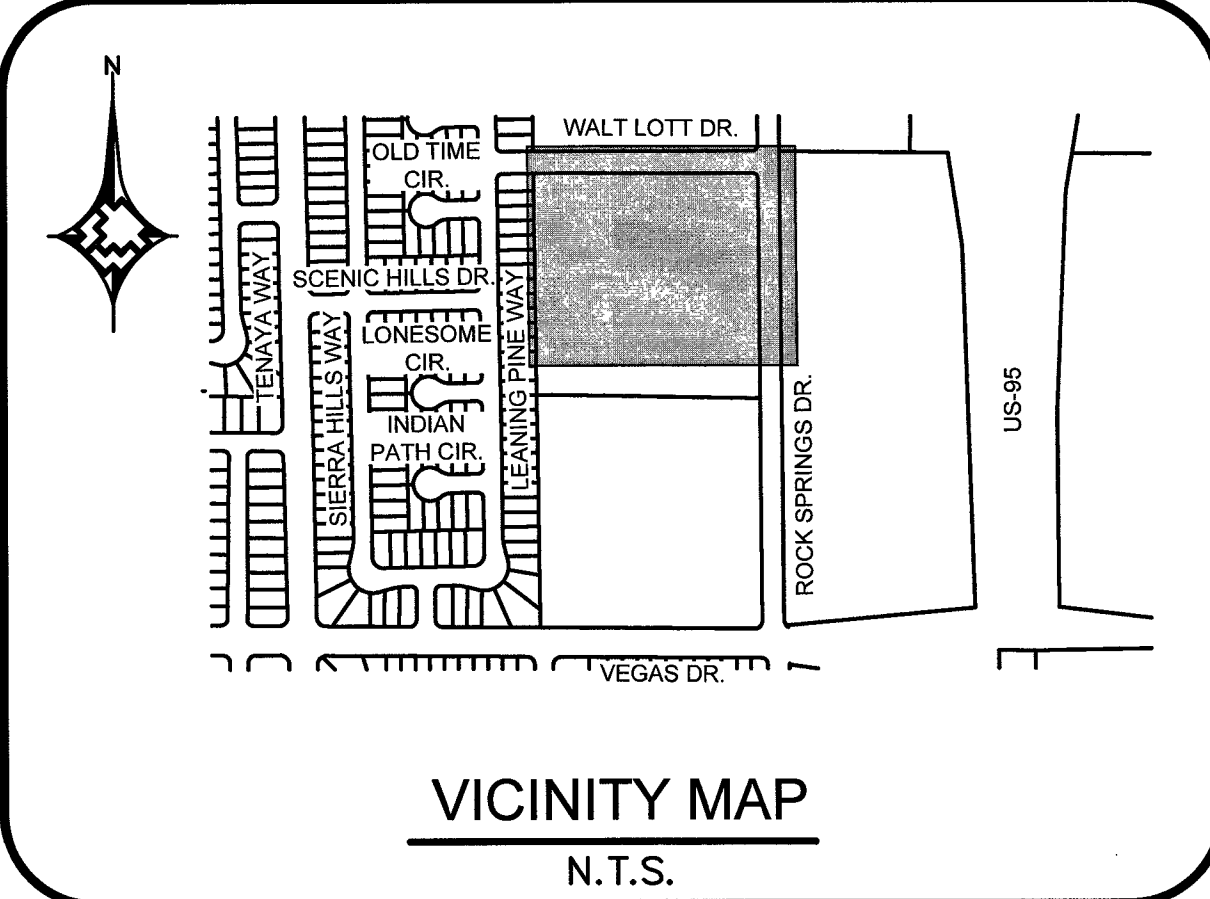


SIGNATURE: _____

SYSTEM M.O.P. 43 PSIG

DATE _____

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ITEM#	STOCK ID#	DESCRIPTION
1	100-5101	2" PE SERVICE
2	160-8174	4"X2" PE HVT
3	160-9271	2" PE COUPLING W/ 5500 EFV
4	140-3067	2" PE 90 DEGREE ELBOW
5	161-7661	2" PE RISER

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

 500.5

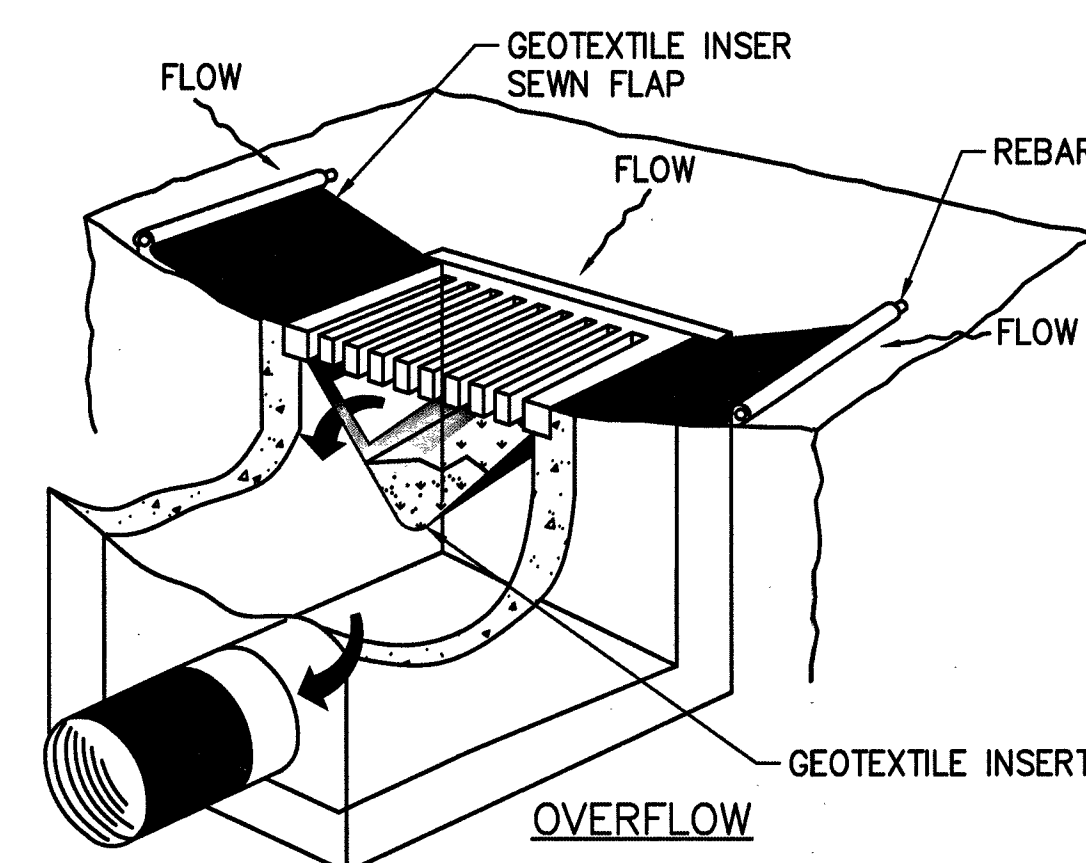
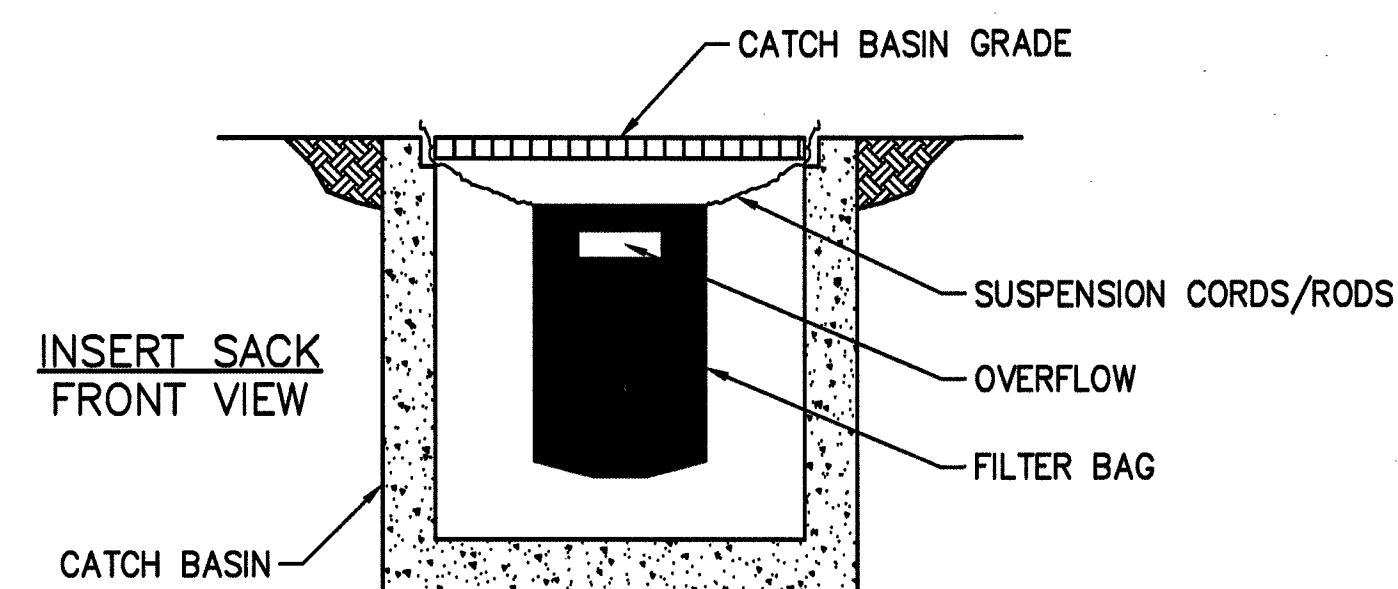
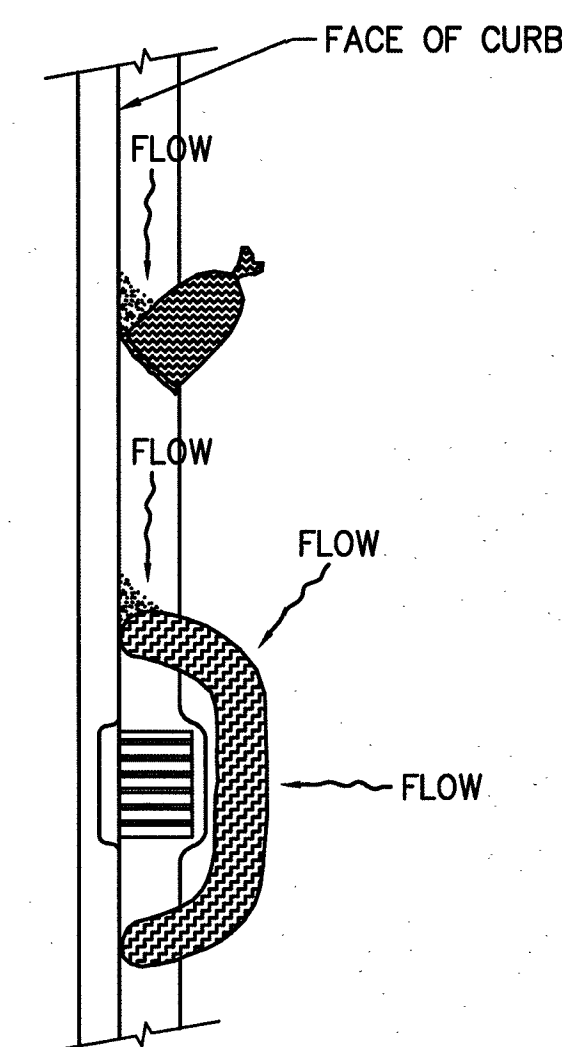
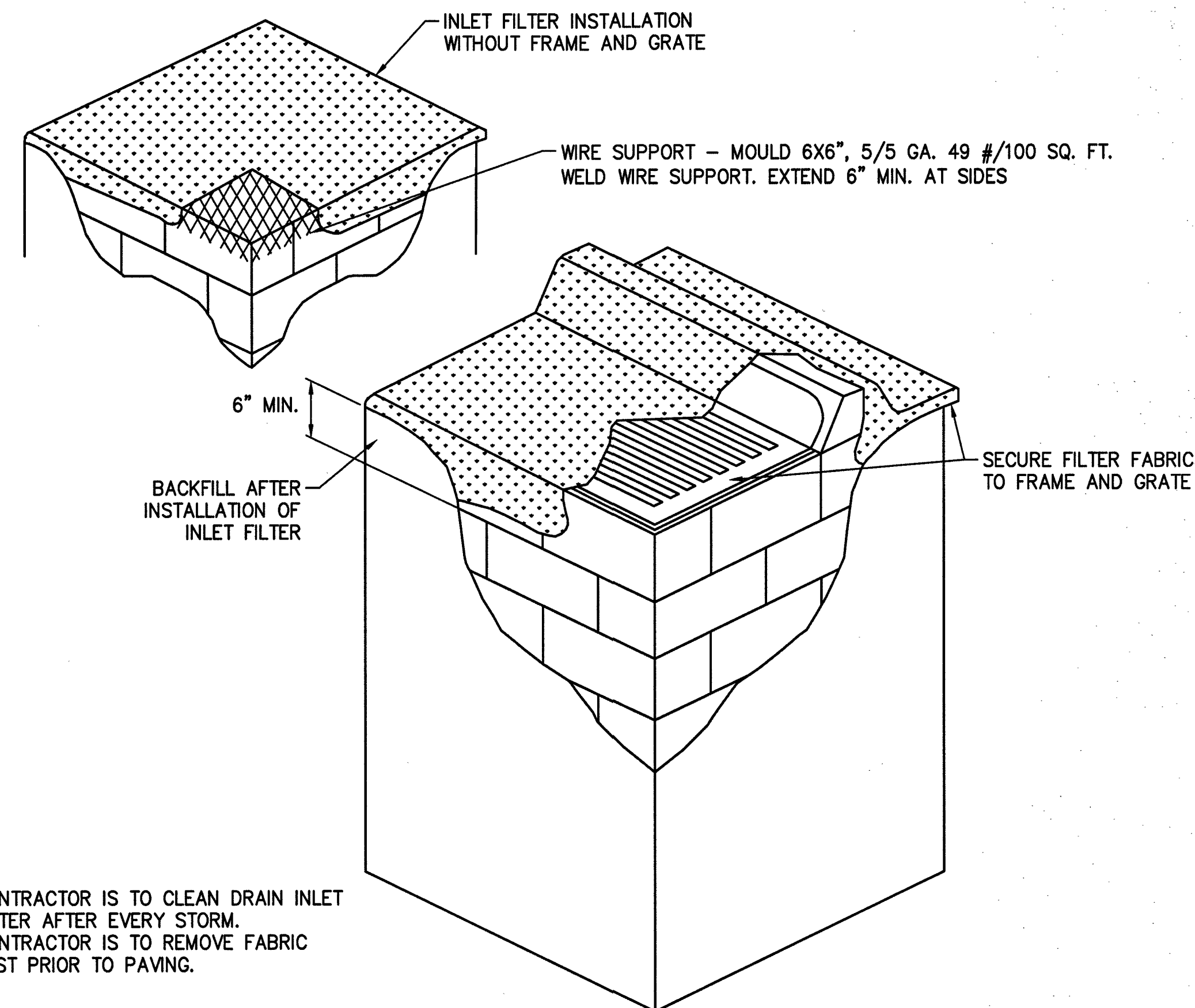
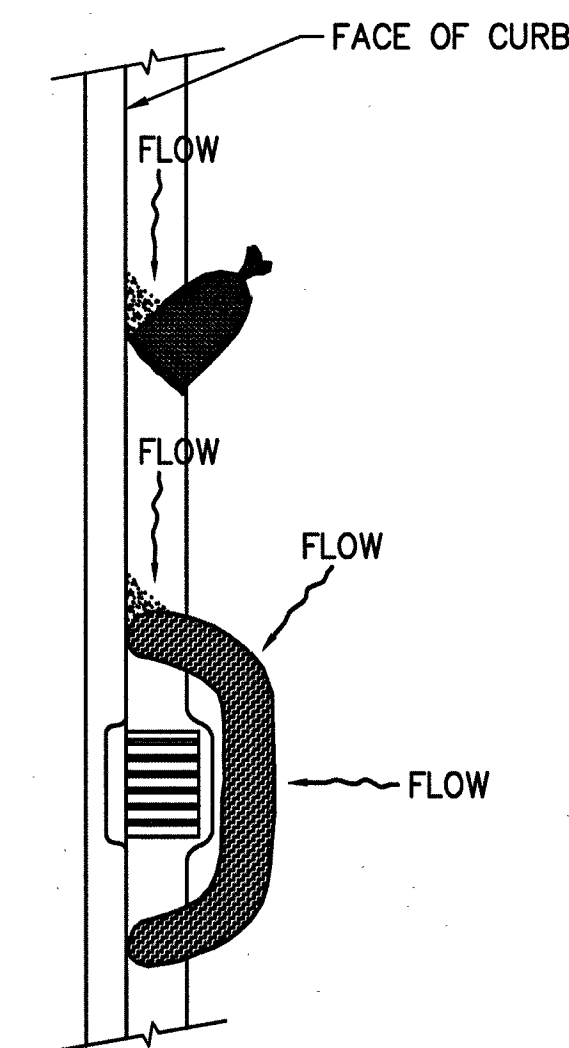
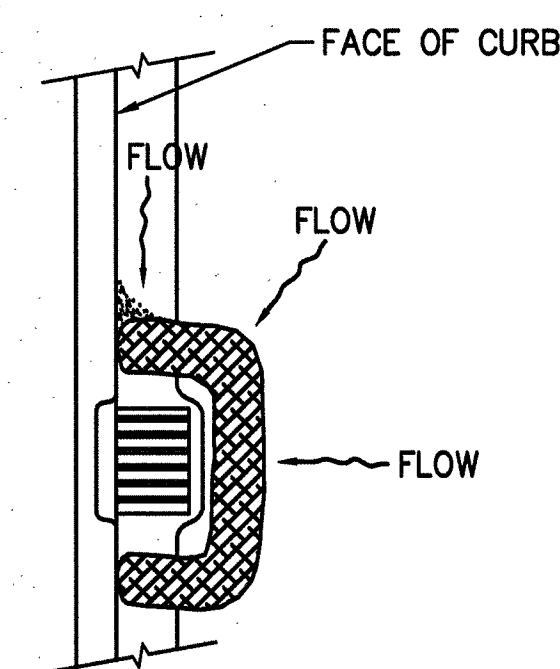
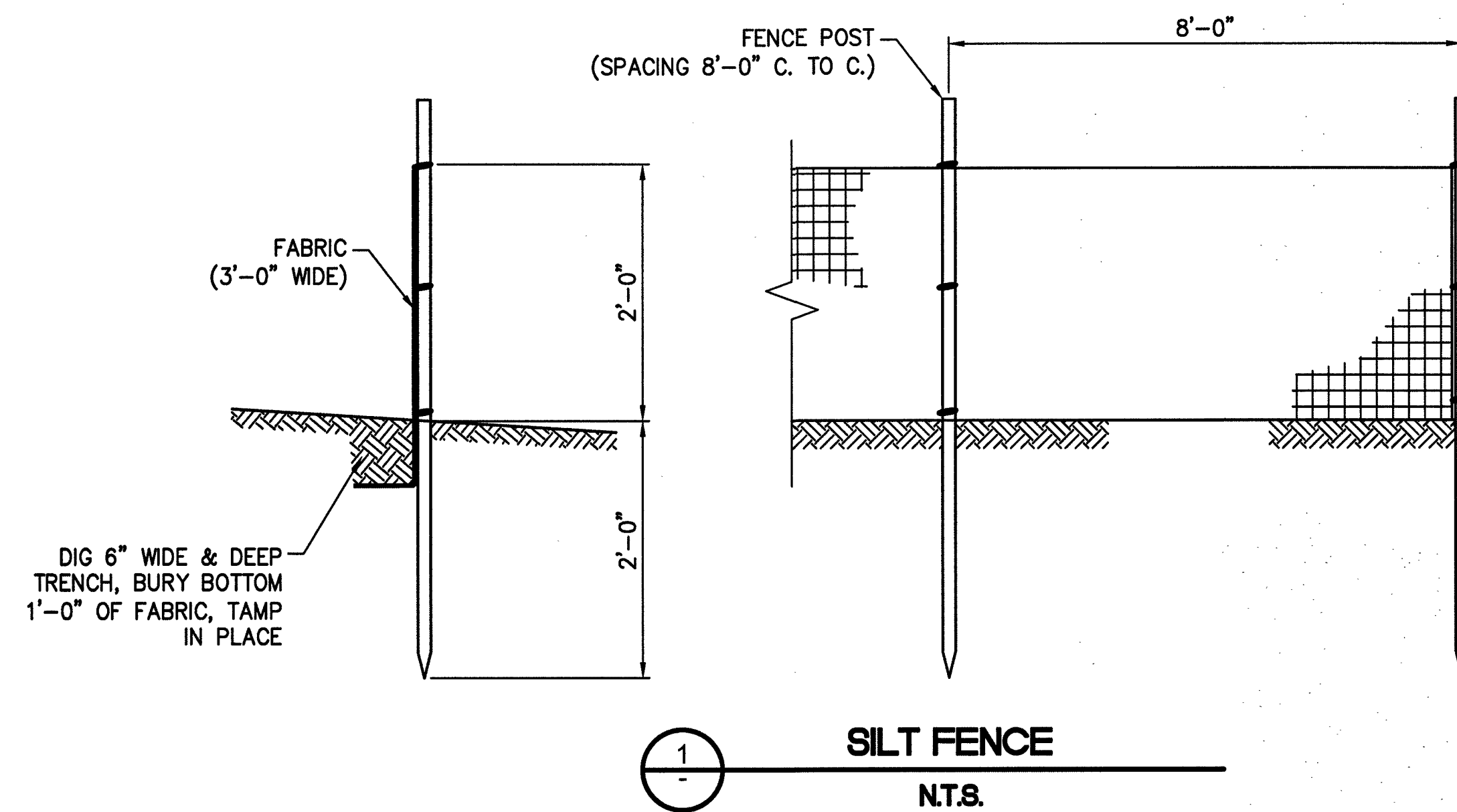
 503



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TYPICAL SWPPP BMP DETAILS



1. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL INSTALL ONE OF THE APPROPRIATE BMPs FOR THE PROTECTION OF EXISTING STORM DRAIN INLETS, WITHIN OR SIGNIFICANTLY NEAR ANY IMPROVED RIGHT-OF-WAY, FROM DEBRIS AND SEDIMENT RESULTING FROM CONSTRUCTION OF NATURAL GAS FACILITIES.
2. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM, USING BEST MANAGEMENT PRACTICES DETAILED ON THIS SHEET.
3. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE LISTED BMPs ON THIS SHEET DO NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY CODE - CHAPTER 24.40/STORM SEWER SYSTEM DISCHARGE AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
4. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

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