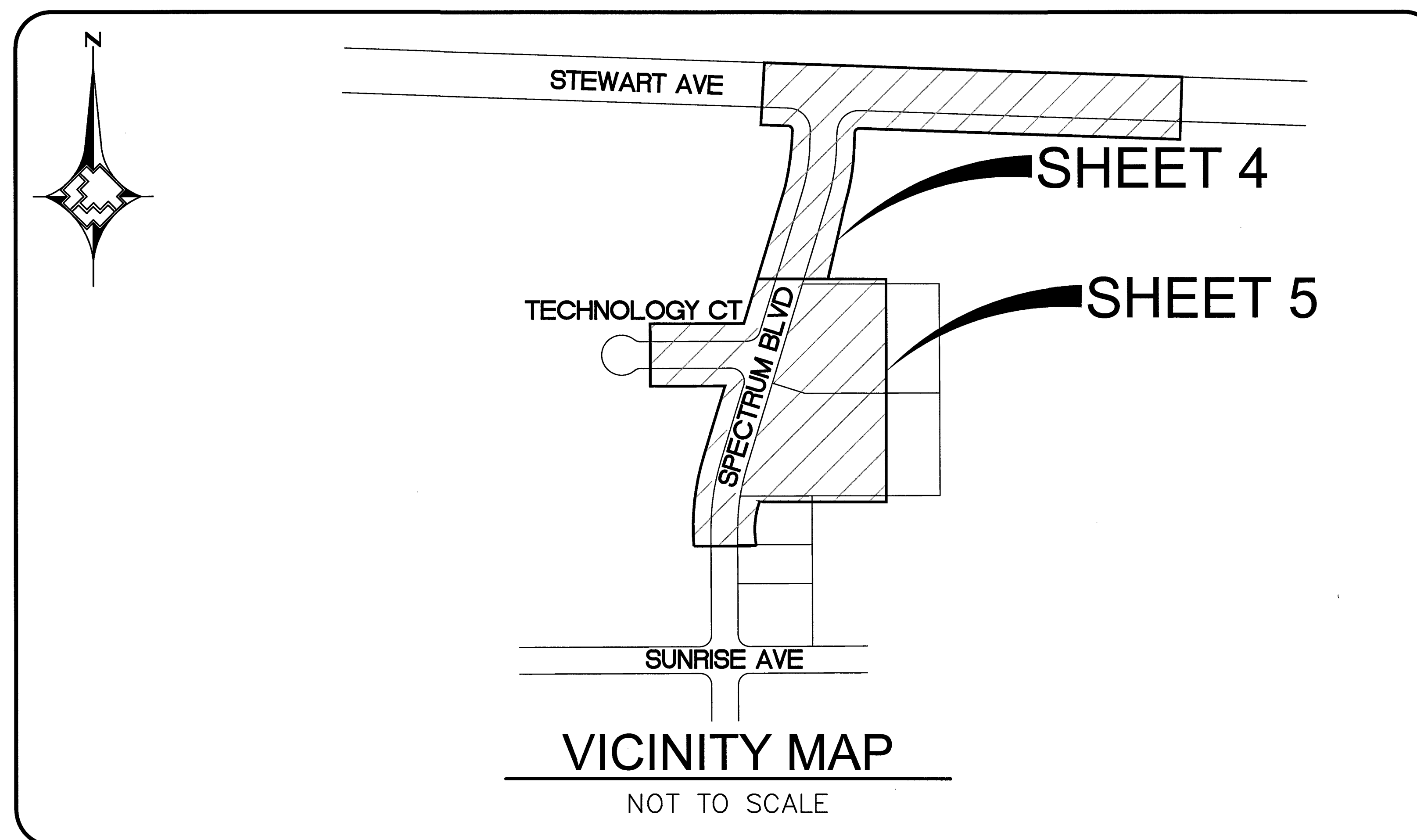


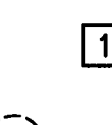
WR #3428780 - SYSTEM IMPROVEMENT

WR #3391265 - SVC INSTALL

WR #3465663 - REG. 21DS10018619 OUTLET REPLACEMENT



LEGEND

	EXISTING GAS LINE
	GAS LINE TO BE ABANDONED
	EXISTING GAS SERVICE
	PROPOSED MAIN GAS LINE (NEW)
	PROPOSED SERVICE LATERAL (NEW)
	PROPOSED SERVICE LINE (NEW)
	RIGHT OF WAY LINE
	STREET CENTERLINE
	PROPERTY LINE
	BACK OF CURB
	TAX CODE BOUNDARY
	MATCHLINE
	PAVEMENT CUT AND REPAIR
	EXISTING ANODELESS RISER
	EXISTING ANODE RISER
	EXISTING GAS LIGHT
	EXISTING GAS VALVE
STL ①	PROPOSED MAIN CALL OUT
PE ①	ABANDONED FACILITIES CALL OUT
①	GAS DIMENSIONS
→ ① ←	EXCESS FLOW VALVE

SHEET INDEX

1. COVER SHEET
2. ABBREVIATIONS & NOTES
3. MATERIALS & SIGNATURES - PE
4. DESIGN PLAN I
5. DESIGN PLAN II
6. DETAILS A & B
7. TYPICAL SWPPP BMPs DETAILS

Total footage located in Public ROW 1,401'

APPROVED FOR CONSTRUCTION

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

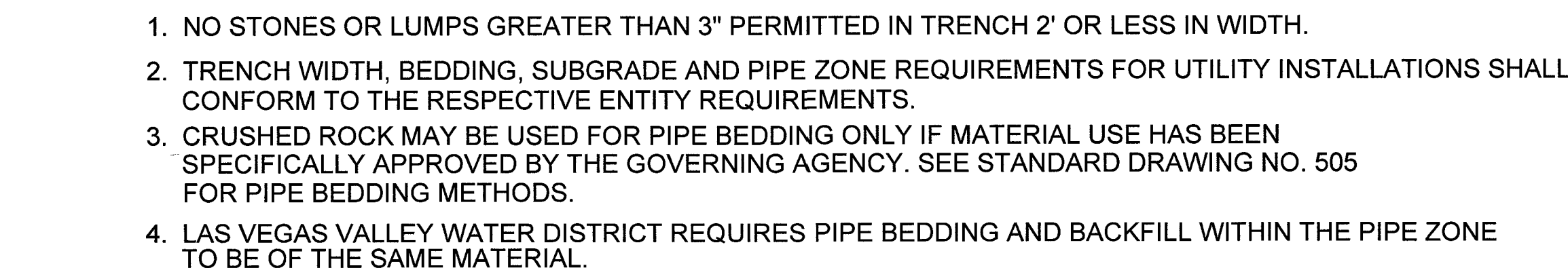
APPROVAL DATE 10 9 11

Hansen L17-01052 Dwg 107V7019-GAS

[illegible]

9/20/17

117-01052



811

Know what's below.
Call before you dig.

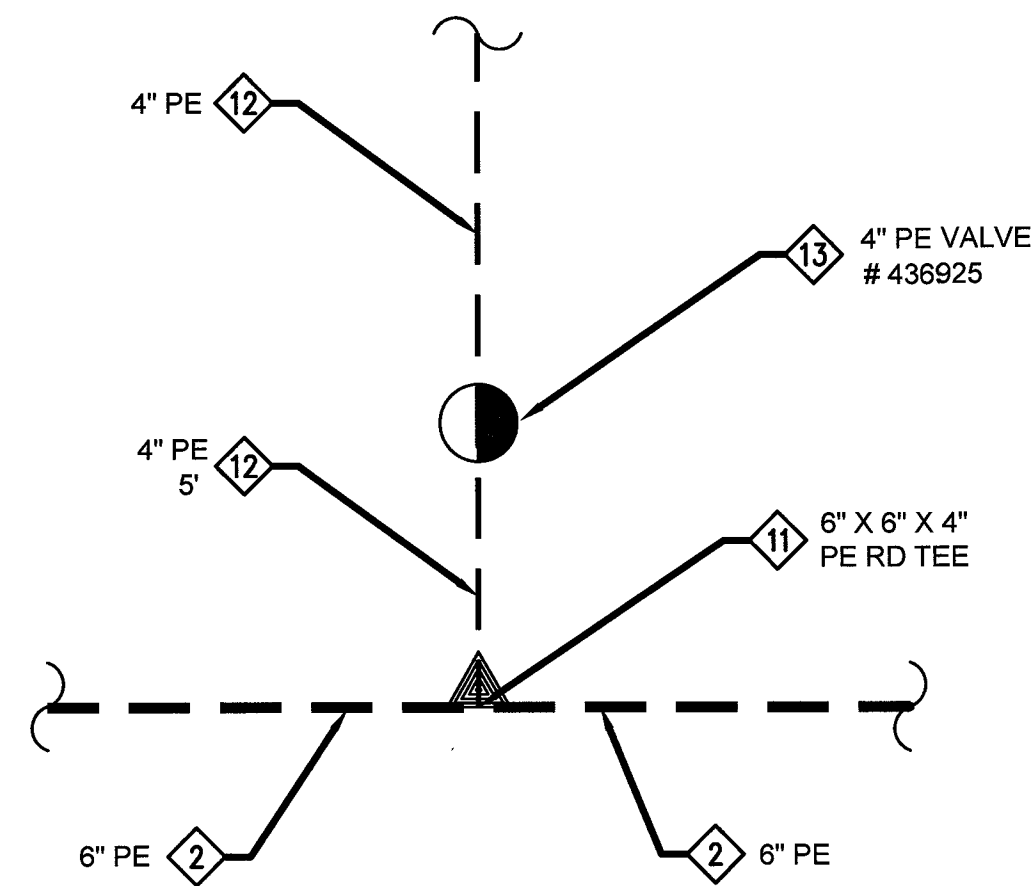
AVOID HITTING OVERHEAD
POWER LINES: IT'S COSTLY.

CALL BEFORE
YOU DIG
OVERHEAD

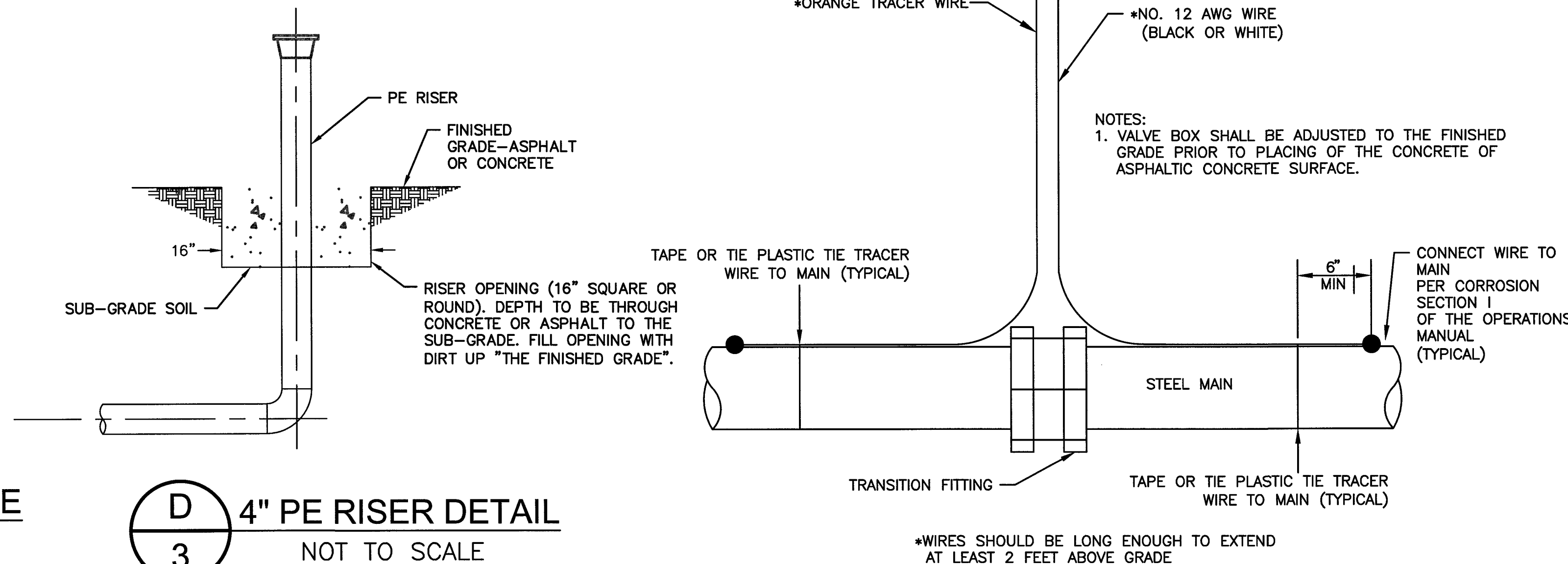
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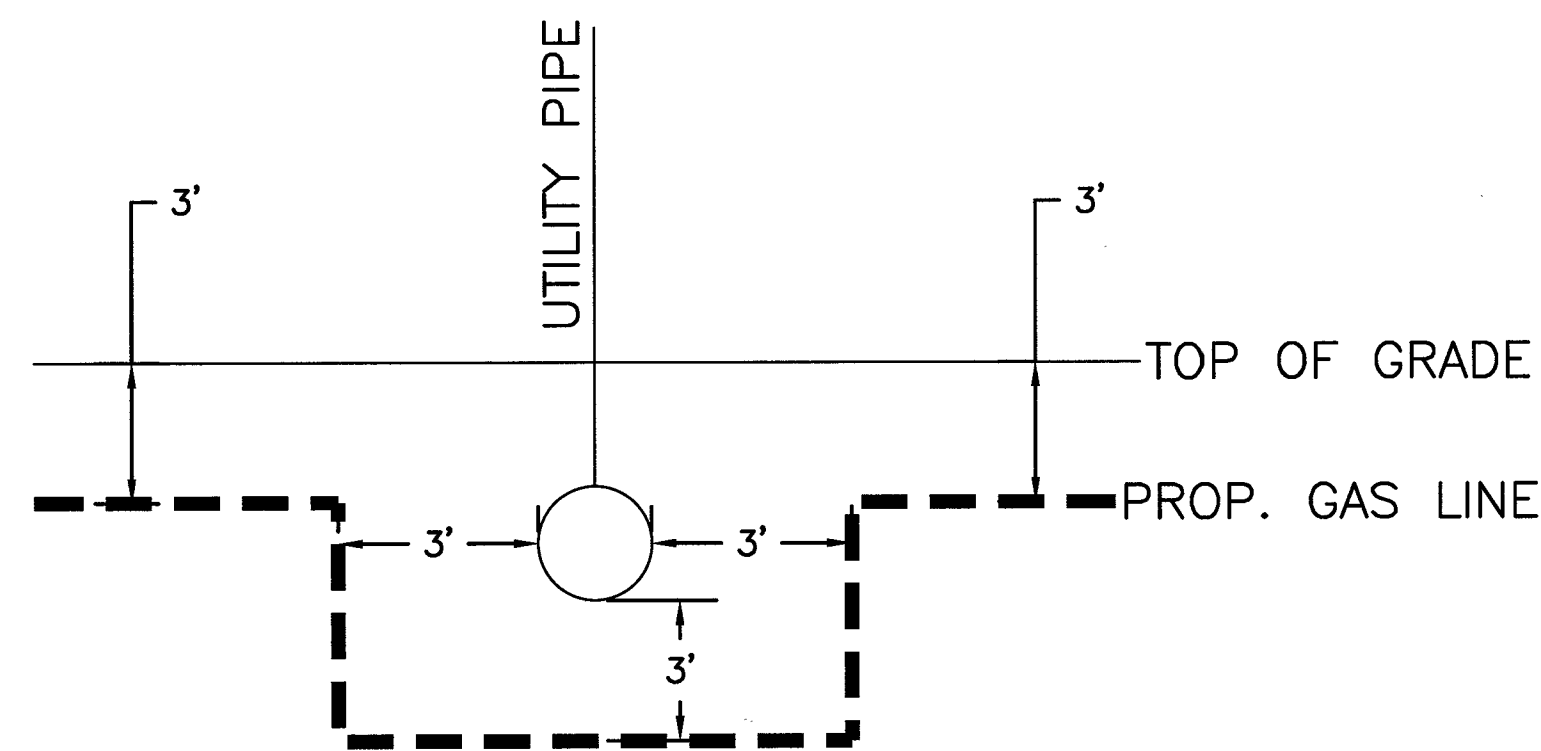
MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES (WR# 3391265)				
ITEM#	QTY. (DESIGN)	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
11	1		140-3078	PROPOSED 6" X 6" X 4" PE REDUCING TEE
12	65'		100-5201	PROPOSED 4" PE SVC
13	1		120-8604	PROPOSED 4" PE VALVE #436925
14	1		161-7576	PROPOSED 4" PE RISER, 59.287 mCFH, 10 PSIG DEL. PRESSURE, 20' SPREAD



C TYPICAL NON-RESIDENTIAL SERVICE
3 LATERAL DETAIL
NOT TO SCALE



D
3 **4" PE RISER DETAIL**
NOT TO SCALE



TYPICAL UTILITY CROSSING DETAIL
NOT TO SCALE

PURGE PLAN WAS COMPLETED IN ACCORDANCE
WITH THE OPERATIONS MANUAL GUIDELINES BY:

PRINT: _____ DATE: _____

SIGNATURE: _____

PLASTIC TO STEEL TRANSITION W/TEST STATION
DETAIL #252

CATHODIC PROTECTION NOTES:

1. CONTACT CP DEPARTMENT AT (702) 528-7873 AT LEAST 48 HOURS PRIOR TO WORK TO COORDINATE INSTALLATION.
2. THIS WR AFFECTS THE FOLLOWING CP AREAS:

CPID#: M1-651-484, 4th QUARTER BOOK A1
WMIS#: 21TCP0021105
3. INSTALL CP TEST STATION. SEE DETAIL "B" ON SHEET 6 AND DETAIL "252" THIS SHEET.

VISUAL INSPECTION (OQ/PJQ)

SIGNATURE _____

DATE _____

WELD PROCEDURES USED:

SIGNATURE _____

DATE _____

AS-BUILT DRAWING-PRESSURE TEST DATA

		TEST MEDIUM TEST METHOD	
PIPE DIA. _____		☐ AIR	☐ GAUGE
PIPE LENGTH _____		☐ NITROGEN	☐ CHART
PIPE TYPE _____		☐ WATER	☐ GAUGE/
MIN. DURATION _____		☐ SOAP	PRESS REC SN# _____
		START	END
TEST PRES. (PSIG) _____		_____	_____
TIME _____		_____	_____
DATE _____		_____	_____
PERFORMED BY _____		_____	_____

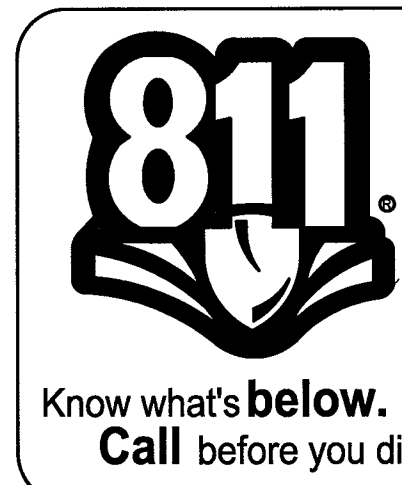
SYSTEM D_VALLEY_WIDE

DR. NO. 21DS10018619

SEGMENT M.A.O.P. N/A

SYSTEM M.A.O.P. 43 psia

SYSTEM M.O.P. 43 psia



					WR# 3428780	3760106	6" PE	1,363'				
1.						3760104	4" PE		707'			
2.						3760102	2" PE		918'			
3.						3800102	2" PE		580'			
4.						3760004	6" PE VALVE	1				
NO.	DESCRIPTION			BY	DATE	APPVD	WR# 345663	3760106	6" PE	38'		
REVISIONS							3760204	4" STL		3'		
 SOUTHWEST GAS CORPORATION							3760104	4" PE		24'		
						WR# 3391265	3800104	4" PE	65'			
						TAX CODES	UNIT NO.	UNIT TYPE	INSTL.	RETIRED	INSTL.	RETIRED
									PROPOSED	COMPLETED		
						PROPERTY UNITS						

AS-BUILT DRAWING-PRESSURE TEST DATA			
		TEST MEDIUM	TEST METHOD
PIPE DIA.	_____	☐ AIR	☐ GAUGE
PIPE LENGTH	_____	☐ NITROGEN	☐ CHART
PIPE TYPE	_____	☐ WATER	☐ GAUGE/ PRESS REC SNI
MIN. DURATION	_____	☐ SOAP	
TEST PRES. (PSIG): (MAX)	_____	(MIN)	_____
TIME: (START)	_____	(STOP)	_____
DATE: (START)	_____	(STOP)	_____
PERFORMED BY:	_____		
SWG VERIFIED BY:	_____		

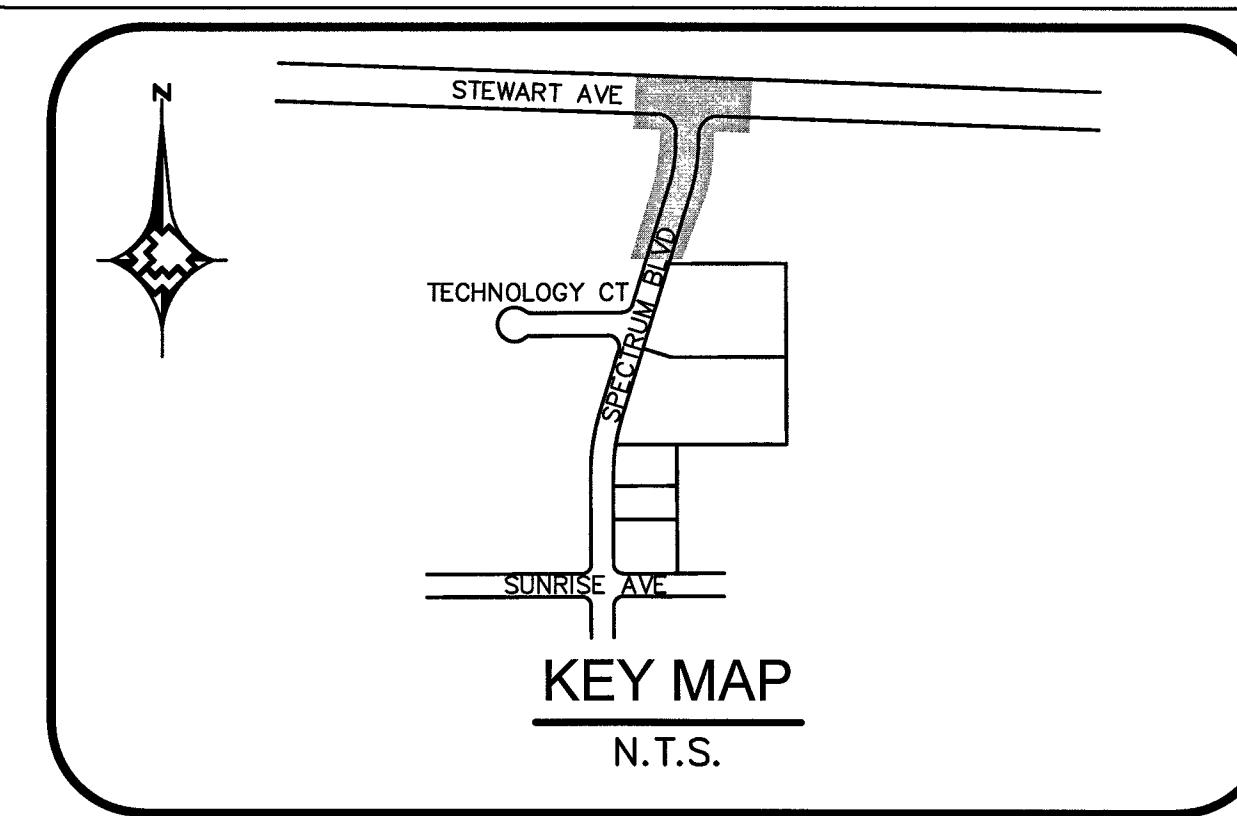
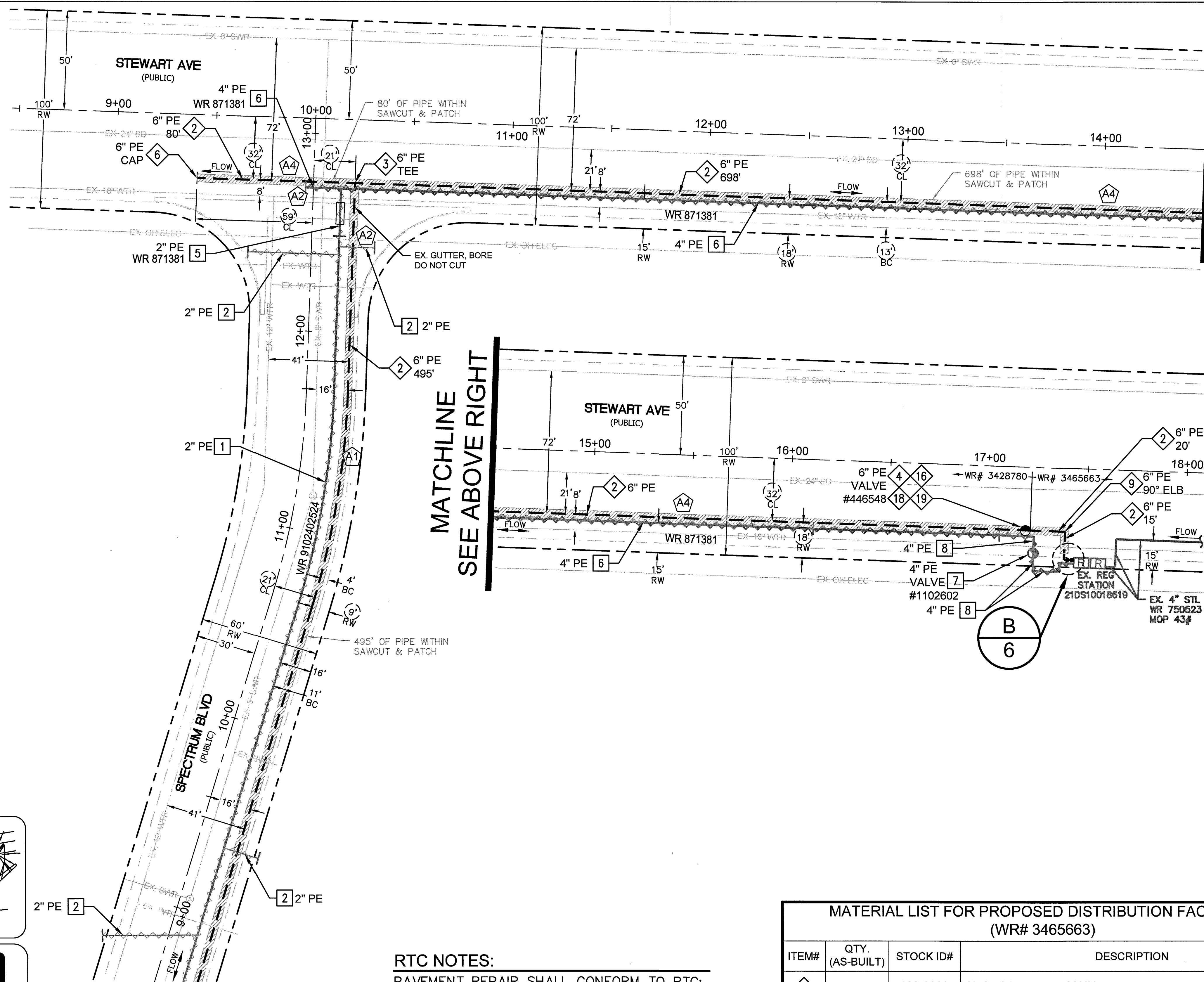
INDIVIDUAL PERFORMING VISUAL INSPECTION VISUAL INSPECTION CERTIFICATION I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED	
NAME _____	DATE _____
_____	_____
_____	_____
_____	_____
AS-BUILTS ACCEPTED BY _____ DATE _____ POSTED BY _____ DATE _____ POSTING QC'D BY _____ DATE _____	

CONSTRUCTION	
INSPECTOR	_____
FOREMAN	_____
REVIEWED BY	_____
PERMIT INFORMATION	
CITY OF LAS VEGAS	
TAX CODE: 02-0200	

	ISOLATION AREA
	DIST_099
	LOCATION
	SEC 36 T20S R61E M.D.M.

	W.R. NO.
	3428780-S.I. 3391265-SVC. 3465663-REG.
	ATLAS #/TILE #
	x642y514

ENGINEER/TECH: KAE LAN TANIGAWA		PHONE: 702-365-2291
ACCOUNT REP: NICOLE HUNT		PHONE: 702-365-2580
PROJECT CONTACT:		PHONE:
SHEET NO: 3 OF 7	SCALE: NTS	DATE: 8/28/2017
DWN. BY: BC&F	CHKD. BY:	APPVD. BY:
TITLE* KAM* SYSTEM IMPROVEMENT/ SERVICE INSTALLATION		
UNIVERSAL LAUNDRY EXPANSION MATERIALS AND SIGNATURES - PE		



MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES (WR# 3428780)			
ITEM#	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
1		140-3080	PROPOSED 6" X 4" PE REDUCER
2		100-0033	PROPOSED 6" PE MAIN
3		140-3079	PROPOSED 6" PE TEE
4		142-6098	PROPOSED VALVE BOX LOCKING LID 5-1/4"BING
6		140-3064	PROPOSED 6" PE CAP
7		140-3060	PROPOSED 2" PE CAP
8		140-5118	PROPOSED 4" X 2" PE REDUCER
9		140-3065	PROPOSED 6" PE 90° ELBOW
10		140-3532	PROPOSED 2" PE COUPLING
16		120-8545	PROPOSED 6" PE VALVE #446548
18		142-6079	PROPOSED VALVE BOX PLASTIC 5-1/4" LESS RIM & LID EXT 52"-72" 105 BING
19		142-6097	PROPOSED RIM FULL FLANGE BING

MATERIAL LIST FOR ABANDONED FACILITIES (WR# 3428780)			
ITEM#	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
1		3760102	ABANDON EX. 2" PE '91 WR# 9102402524 MOP 43#
2		3800102	ABANDON EX. 2" PE '91 SVC
3		3800102	ABANDON EX. 2" PE '00 SVC
4		3800102	ABANDON EX. 2" PE '06 SVC
5		3760102	ABANDON EX. 2" PE '08 WR# 871381 MOP 43#
6		3760104	ABANDON EX. 4" PE '08 WR# 871381 MOP 43#
7			ABANDON EX. 4" BALL VALVE # 1102602
8		3760104	ABANDON EX. 4" PE '08 WR# 750523 MOP 43#

MATERIAL LIST FOR ABANDONED FACILITIES (WR# 3465663)			
ITEM#	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
8		3760104	ABANDON EX. 4" PE '08 WR# 750523 MOP 43#
9		3760204	ABANDON EX. 4" STL '08 WR# 750523 MOP 43#

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

- | | |
|----|-------|
| A1 | 500.4 |
| A2 | 500.5 |
| A3 | 503 |
| A4 | 500.3 |

MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES (WR# 3465663)			
ITEM#	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
2		100-0033	PROPOSED 6" PE MAIN
5		251-2406	CATHODIC TERMINAL TEST STATION 4"X18" LONG HNDY
9		140-3065	PROPOSED 6" PE 90° ELBOW
17		160-8163	PROPOSED 4" PE/STL TRANS FTG NMDA

[illegible]

AS-BUILT DRAWING-PRESSURE TEST DATA

	TEST MEDIUM	TEST METHOD
PIPE DIA. _____	☐ AIR	☐ GAUGE
PIPE LENGTH _____	☐ NITROGEN	☐ CHART
PIPE TYPE _____	☐ WATER	
MIN. DURATION _____	☐ SOAP	GAUGE/ PRESS REC SN# _____
TEST PRES. (PSIG) (MAX) _____		(MIN) _____
TIME (HOURS) _____		(STOP) _____
DATE (START) _____		(STOP) _____
PERFORMED BY: _____		
SWG VERIFIED BY: _____		

INDIVIDUAL PERFORMING VISUAL INSPECTION
VISUAL INSPECTION CERTIFICATION

I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT,
 MECHANICAL JOINTS, AND WELDS THAT HAVE PERFORMED

NAME _____ DATE _____

SEE SHEET 3

AS-BUILTS ACCEPTED BY _____ DATE _____

POSTED BY _____ DATE _____

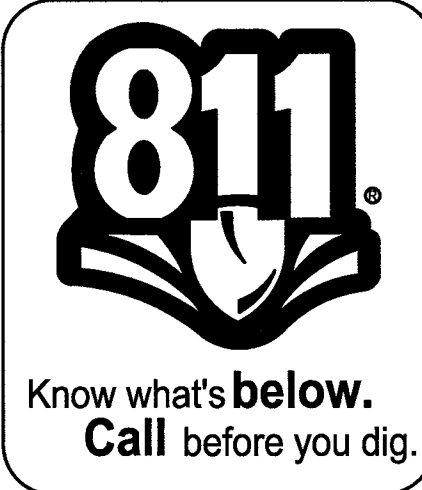
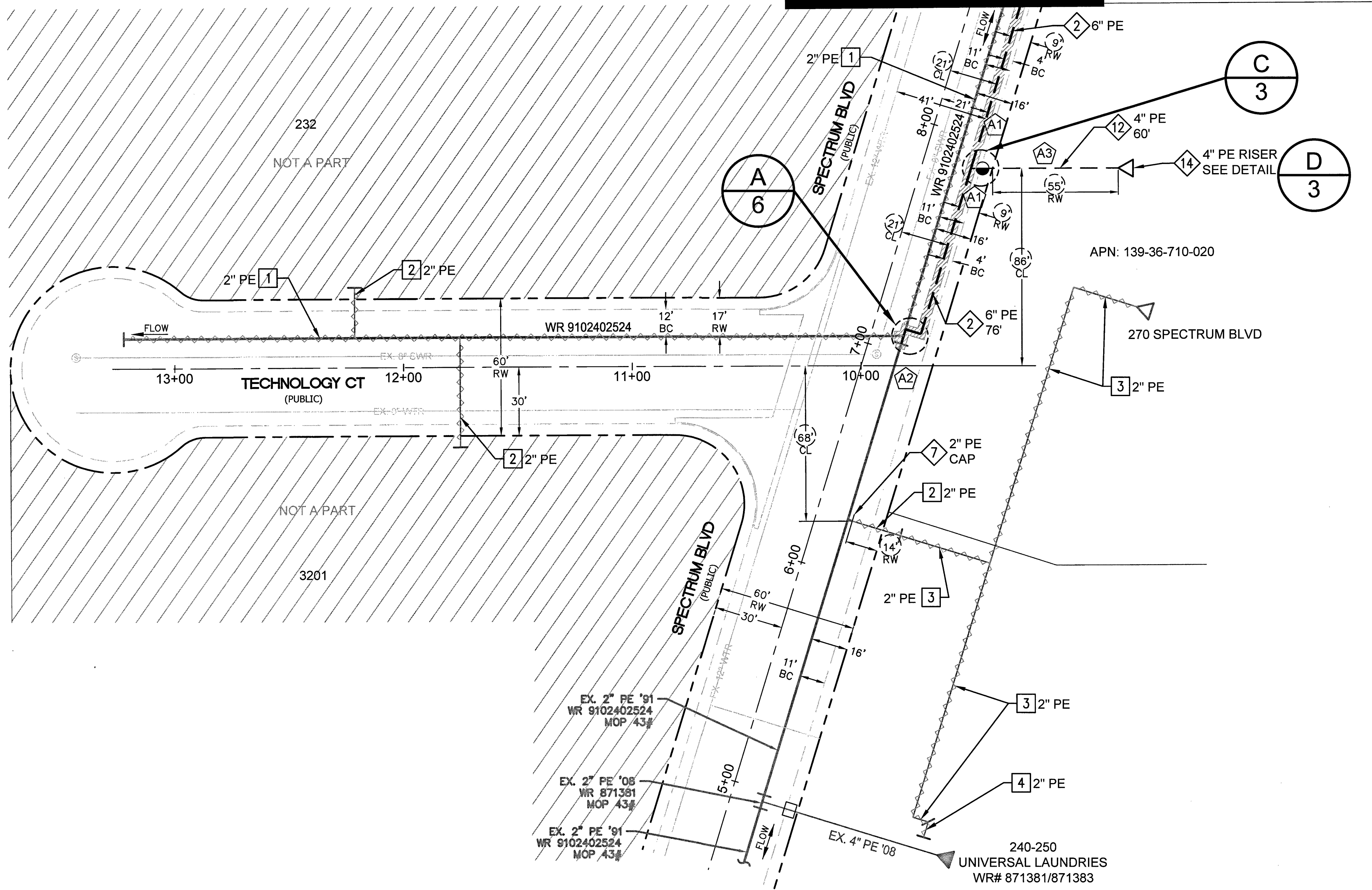
POSTING QC'D BY _____ DATE _____

CONSTRUCTION	
INSPECTOR	_____
FOREMAN	_____
REVIEWED BY	_____
PERMIT INFORMATION	
CITY OF LAS VEGAS	
TAX CODE: 02-0200	

ISOLATION AREA	W.R. NO.	ENGINEER/TECH: KAELAN TANIGAWA	PHONE: 702-365-2291
DIST_099	3428780-S.I. 3391265-SVC. 3465663-REG.	ACCOUNT REP: NICOLE HUNT	PHONE: 702-365-2580
		PROJECT CONTACT: PHONE:	
		SHEET NO: 4 OF 7	SCALE: 1" = 30'
		DWN. BY: BC&F	DATE: 8/28/2017
		CHKD. BY:	APPRVD. BY:
LOCATION	ATLAS #/TITLE #	TITLE *KAM* SYSTEM IMPROVEMENT/ SERVICE INSTALLATION UNIVERSAL LAUNDRY EXPANSION DESIGN PLAN I	
SEC 36 T20S R61E M.D.M.	x642y514		



MATCHLINE - SEE SHEET 4



RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

- 500.4
- 500.5
- 503
- 500.3

MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES (WR# 3391265)

ITEM#	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
11		140-3078	PROPOSED 6" X 6" X 4" PE REDUCING TEE
12		100-5201	PROPOSED 4" PE SVC
13		120-8604	PROPOSED 4" PE VALVE #436925
14		161-7576	PROPOSED 4" PE RISER, 59.287 mCFH, 10 PSIG DEL. PRESSURE, 20' SPREAD

MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES (WR# 3428780)

ITEM#	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
1		140-3080	PROPOSED 6" X 4" PE REDUCER
2		100-0033	PROPOSED 6" PE MAIN
3		140-3079	PROPOSED 6" PE TEE
4		142-6098	PROPOSED VALVE BOX LOCKING LID 5-1/4" BING
6		140-3064	PROPOSED 6" PE CAP
7		140-3060	PROPOSED 2" PE CAP
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9		140-3065	PROPOSED 6" PE 90° ELBOW
10		140-3532	PROPOSED 2" PE COUPLING
16		120-8545	PROPOSED 6" PE VALVE #446548
18		142-6079	PROPOSED VALVE BOX PLASTIC 5-1/4" LESS RIM & LID EXT 52"-72" 105 BING
19		142-6097	PROPOSED RIM FULL FLANGE BING

MATERIAL LIST FOR ABANDONED FACILITIES (WR# 3428780)

ITEM#	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
1		3760102	ABANDON EX. 2" PE '91 WR# 9102402524 MOP 43#
2		3800102	ABANDON EX. 2" PE '91 SVC
3		3800102	ABANDON EX. 2" PE '00 SVC
4		3800102	ABANDON EX. 2" PE '06 SVC
5		3760102	ABANDON EX. 2" PE '08 WR# 871381 MOP 43#
6		3760104	ABANDON EX. 4" PE '08 WR# 871381 MOP 43#
7			ABANDON EX. 4" BALL VALVE # 1102602
8		3760104	ABANDON EX. 4" PE '08 WR# 750523 MOP 43#

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				
REVISIONS				
SOUTHWEST GAS CORPORATION				
TAX CODES	UNIT NO.	UNIT TYPE	INSTL. PROPOSED	RETIRED COMPLETED
PROPERTY UNITS				

AS-BUILT DRAWING-PRESSURE TEST DATA		
PIPE DIA.	TEST MEDIUM	TEST METHOD
PIPE LENGTH	☐ AIR	☐ GAUGE
PIPE TYPE	☐ NITROGEN	☐ CHART
MIN. DURATION	☐ WATER	☐ GAUGE/ PRESS REC SN#
TEST PRES. (PSIG): (MAX)	(MIN)	
TIME: (START)	(STOP)	
DATE: (START)	(STOP)	
PERFORMED BY:		
SWS VERIFIED BY:		

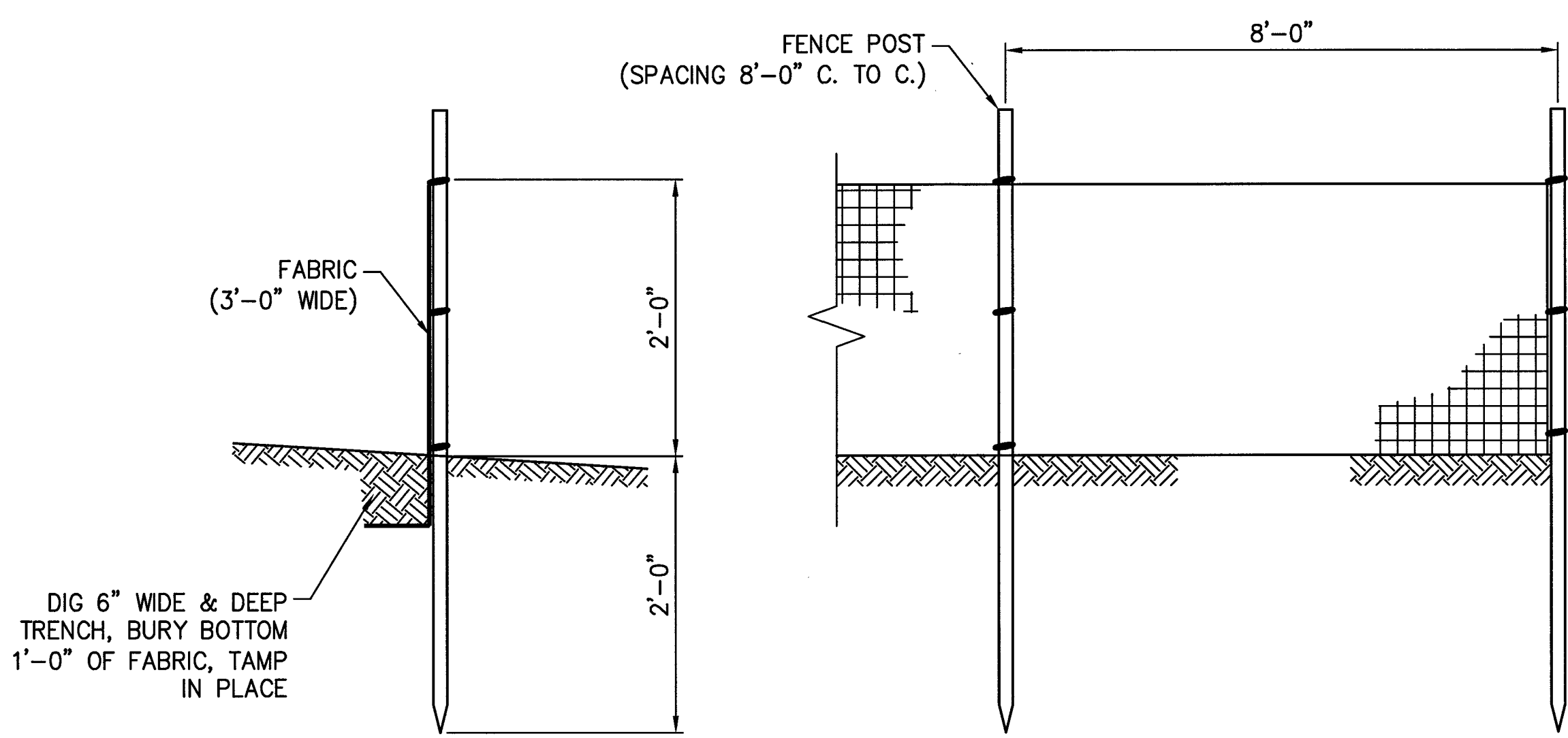
INDIVIDUAL PERFORMING VISUAL INSPECTION VISUAL INSPECTION CERTIFICATION	
I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT HAVE PERFORMED	
NAME	DATE
AS-BUILTS ACCEPTED BY	DATE
POSTED BY	DATE
POSTING QC'D BY	DATE

CONSTRUCTION	
INSPECTOR	FOREMAN
REVIEWED BY	
PERMIT INFORMATION	
CITY OF LAS VEGAS	
TAX CODE: 02-0200	

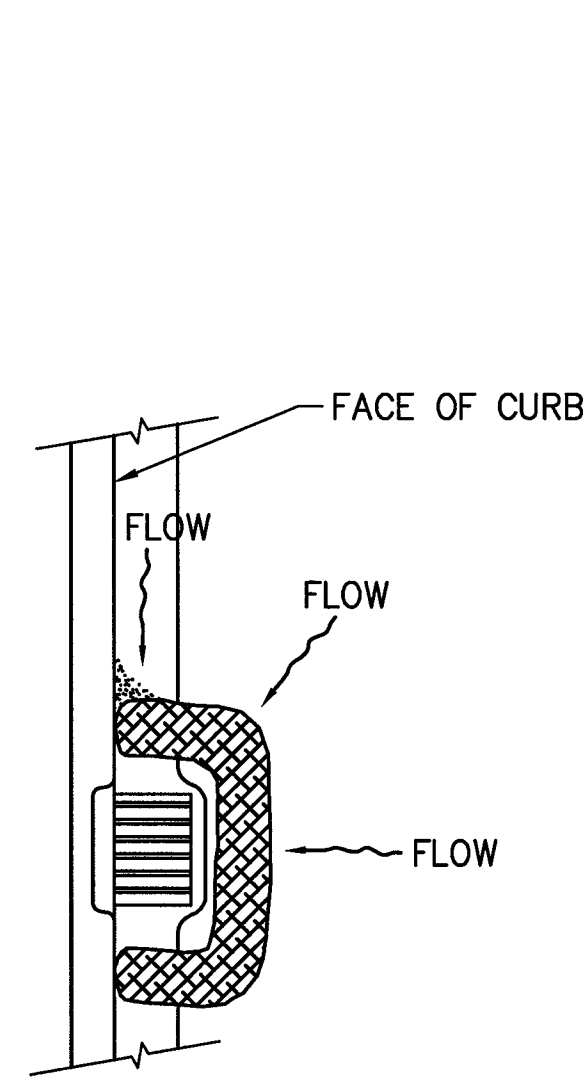
ISOLATION AREA	
DIST_099	
W.R. NO.	
3428780-S.I.	
3391265-SVC.	
3465663-REG.	
LOCATION	
SEC 36	
T20S R61E	
M.D.M.	

ENGINEER/TECH: KAE LAN TANIGAWA	PHONE: 702-365-2291
ACCOUNT REP: NICOLE HUNT	PHONE: 702-365-2580
PROJECT CONTACT:	PHONE:
SHEET NO: 5 OF 7	SCALE: 1" = 30'
DWN. BY: BC&F	CHKD. BY:
DATE: 8/28/2017	APPVD. BY:
TITLE: *KAM* SYSTEM IMPROVEMENT/	
SERVICE INSTALLATION	
UNIVERSAL LAUNDRY EXPANSION	
DESIGN PLAN II	

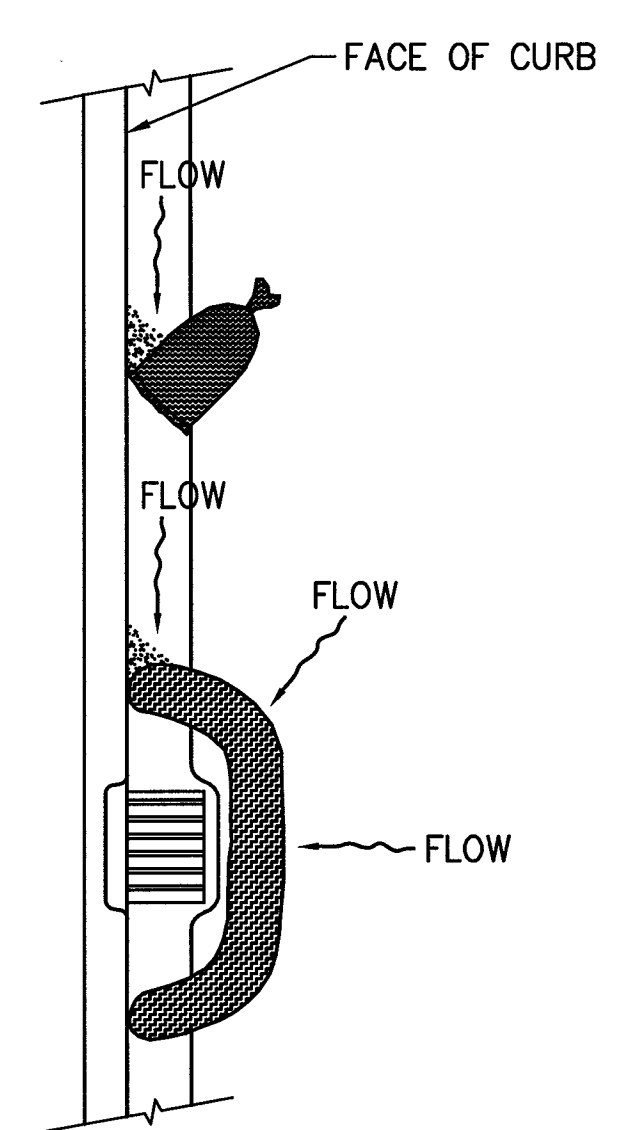
TYPICAL SWPPP BMPs DETAILS



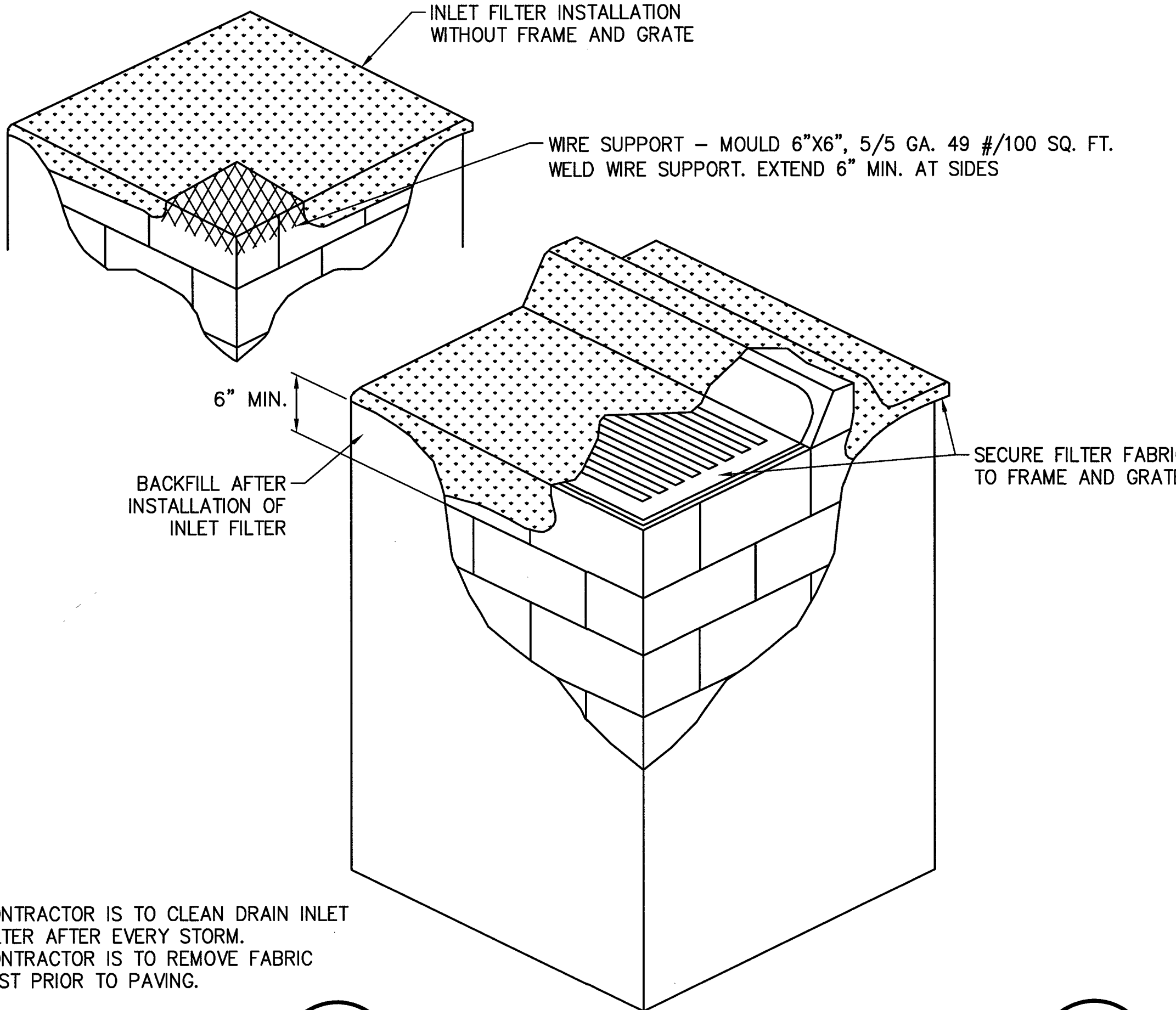
1
7 **SILT FENCE**
NOT TO SCALE



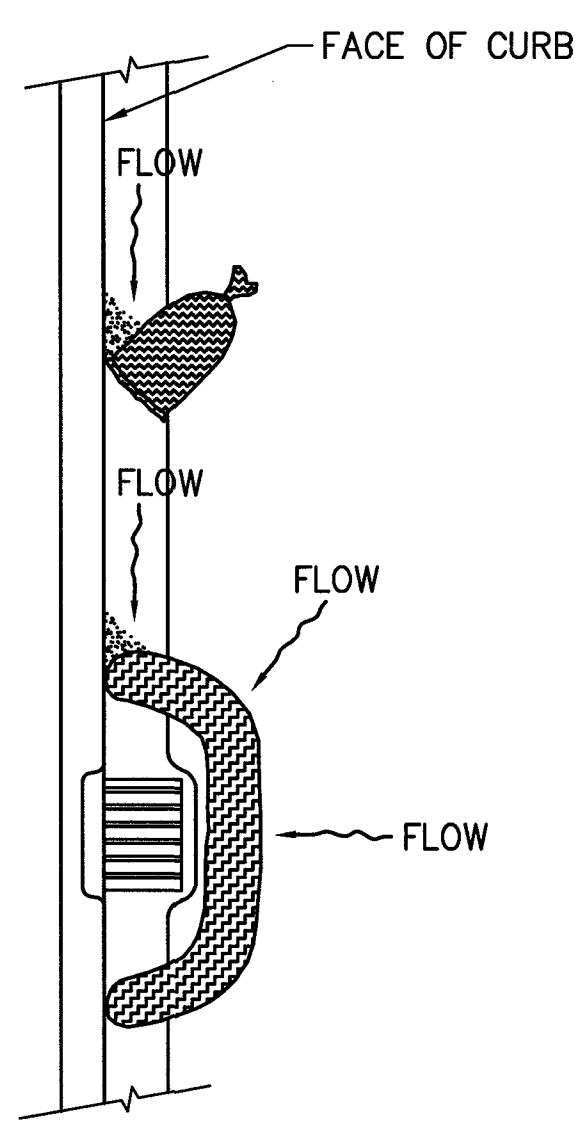
2
7 **FIBER ROLL**
NOT TO SCALE



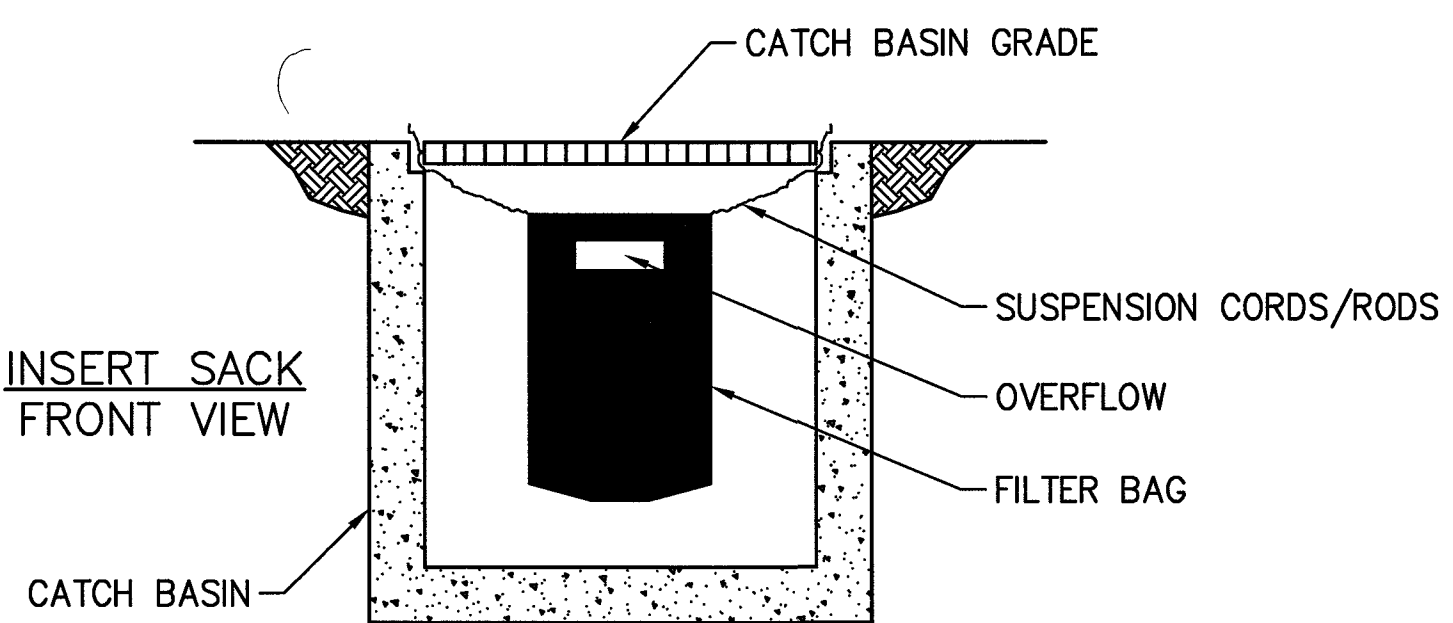
3
7 **SAND BAG / ROLL**
NOT TO SCALE



4
7 **DRAIN INLET FILTER**
NOT TO SCALE



5
7 **GRAVEL BAG / ROLL**
NOT TO SCALE

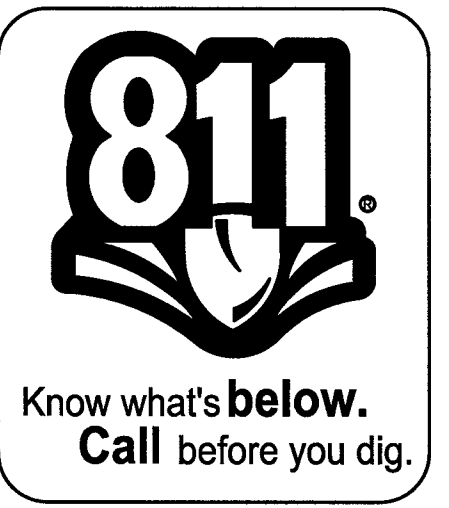


6
7 **SEDIMENT FILTER BAG**
NOT TO SCALE

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 TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

NOTE:
1. CONTRACTOR IS TO CLEAN DRAIN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR IS TO REMOVE FABRIC JUST PRIOR TO PAVING.

NOTE:
RECESSED CURB INLET MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS. SIZE OF FILTER FABRIC INLET SACK TO BE DETERMINED BY MANUFACTURER.



1. _____				2. _____				3. _____				4. _____				NO. _____				DESCRIPTION _____				BY _____				DATE _____				APPVD. _____				REVISIONS _____				TAX CODES _____				UNIT NO. _____				UNIT TYPE _____				INSTL. _____				RETIRED _____				INSTL. _____				RETIRED _____				COMPLETED _____				PROPERTY UNITS _____				AS-BUILT DRAWING-PRESSURE TEST DATA				TEST MEDIUM _____				TEST METHOD _____				PIPE DIA. _____				PIPE LENGTH _____				PIPE TYPE _____				MIN. DURATION _____				TEST PRES. (PSIG) (MAX) _____				TIME (START) _____				TIME (STOP) _____				DATE (START) _____				DATE (STOP) _____				PERFORMED BY _____				SWS VERIFIED BY _____				INDIVIDUAL PERFORMING VISUAL INSPECTION				VISUAL INSPECTION CERTIFICATION				I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT HAVE PERFORMED				NAME _____				DATE _____				CONSTRUCTION				INSPECTOR _____				FOREMAN _____				REVIEWED BY _____				PERMIT INFORMATION				CITY OF LAS VEGAS				TAX CODE: 02-0200				ISOLATION AREA				DIST_099				W.R. NO.				3428780-S.I.				3391265-SVC.				3465663-REG.				ENGINEER/TECH: KAE LAN TANIGAWA				ACCOUNT REP: NICOLE HUNT				PROJECT CONTACT:				SHEET NO: 7 OF 7				SCALE: NTS				DATE: 8/28/2017				DWN. BY: BC&F				CHKD. BY: _____				APPVD. BY: _____				TITLE *KAM* SYSTEM IMPROVEMENT/				SERVICE INSTALLATION				UNIVERSAL LAUNDRY EXPANSION				TYPICAL SWPPP BMPs DETAILS				PHONE: 702-365-2291				PHONE: 702-365-2580				PHONE: _____			
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