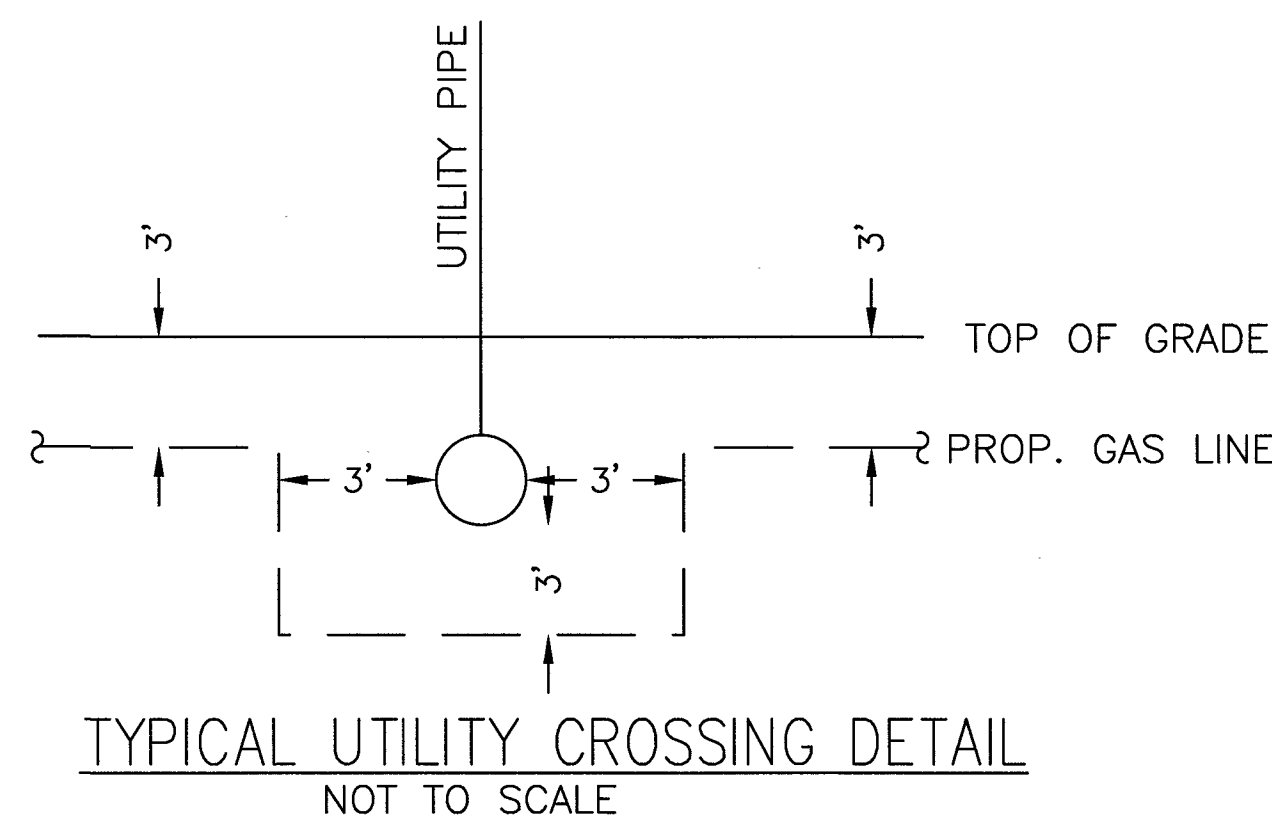


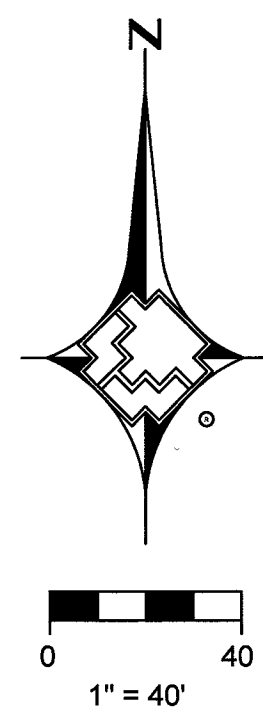
MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES				
ITEM#	QTY. (DESIGN)	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
1	3,521'		100-5101	PROPOSED 2" PE MAIN
2	4		140-3074	PROPOSED 2" PE TEE
3	1		140-3060	PROPOSED 2" PE CAP
4	6		140-3067	PROPOSED 2" PE 90° ELBOW
5	1,309'		100-5201	PROPOSED 4" PE MAIN
6	2		140-3076	PROPOSED 4" PE TEE
7	3		140-5118	PROPOSED 4"X2" PE REDUCER
8	1		160-8174	PROPOSED 4"X2" PE TAPPNG TEE
9	-		140-3069	PROPOSED 4" PE 90 DEGREE ELBOW
10	4		140-3532	PROPOSED 2" PE COUPLER
11	1		160-8171	PROPOSED 2" PE TAPPING TEE
12	2		160-8018	PROPOSED 3-WAY 2" STEEL TAP TEE
13	2		160-8162	PROPOSED 2" STL TO 2" PE TRANSITION FITTING

MATERIAL LIST FOR PROPOSED ABANDONMENT FACILITIES				
ITEM#	QTY. (DESIGN)	QTY. (AS-BUILT)	PROPERTY UNITS #	DESCRIPTION
1	4,347'		3760202	ABANDON 2" STL MAIN '56
2	3'		3760102	ABANDON 2" PE MAIN '13
3	16'		3760102	ABANDON 2" PE MAIN '82
4	297'		3760602	ABANDON 2" PVC MAIN '61
5	10'		3760102	ABANDON 2" PE MAIN '83
6	165'		3760202	ABANDON 2" STL MAIN '56
7	1			ABANDON 2" BALL VALVE '91
8	82'		3800601	ABANDON 3/4" PVC SVC '56
9	2'		3800101	ABANDON 1" PE SVC '10
10	152'		3800601	ABANDON 1/2" PVC SVC '68
11	2'		3800101	ABANDON 1" PE SVC '09
12	12'		3760202	ABANDON 2" PE MAIN '07
13	5'		3760202	ABANDON 2" PE MAIN '03
14	31'		3760602	ABANDON 2" PVC MAIN '64
15	2'		3760602	ABANDON 2" PE MAIN '92
16	12'		3760602	ABANDON 2" PE MAIN '09
17	3'		3760602	ABANDON 2" PE MAIN '97

MATERIAL LIST FOR STEEL FACILITIES				
ITEM#	QTY. (DESIGN)	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
1	1		251-2406	CATHODIC TERMINAL TEST STATION 4"X18" LONG HNDY



VISUAL INSPECTION (OQ/PJQ)	
SIGNATURE _____	
DATE _____	



1.					
2.					
3.					
4.					
NO.	DESCRIPTION	BY	DATE	APPVD.	

REVISIONS					

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. PROPOSED	RETIRED	INSTL. COMPLETED	RETIRED
PROPERTY UNITS						

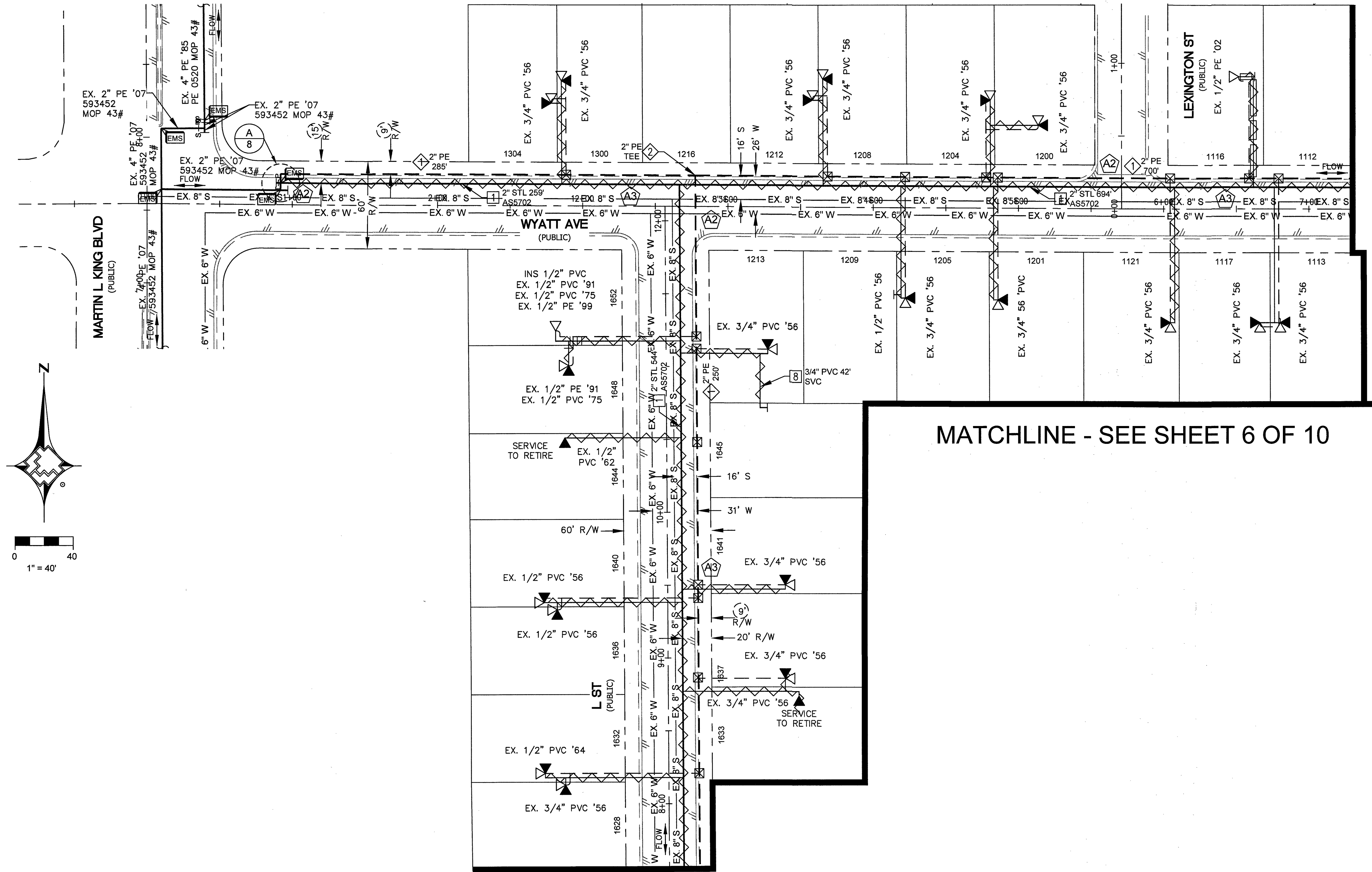
AS-BUILT DRAWING-PRESSURE TEST DATA			
PIPE DIA.	TEST MEDIUM	TEST METHOD	
PIPE LENGTH	☐ AIR	☐ GAUGE	
PIPE TYPE	☐ NITROGEN	☐ CHART	
MIN. DURATION	☐ WATER	☐ GAUGE/ PRESS REC	
TEST PRES. (PSIG) (MAX)		(MIN)	
TIME (HOURS)		(STOP)	
DATE (MM/YY)		(STOP)	
PERFORMED BY:			
VERIFIED BY:			

INDIVIDUAL PERFORMING VISUAL INSPECTION	
VISUAL INSPECTION CERTIFICATION	
I HAVE VISUALLY INSPECTED ALL HEATED FUSION, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT HAVE PERFORMED	
NAME	DATE
INSPECTOR	
FOREMAN	
REVIEWED BY	
CONSTRUCTION	
PERMIT INFORMATION	
CITY OF LAS VEGAS	
TAX CODE 02-0200	
AS-BUILTS ACCEPTED BY	DATE
POSTED BY	DATE
POSTING QC'D BY	DATE

ISOLATION AREA	
ISO_21_DIST_092	
W.R. NO.	3431281
ENGINEER/TECH:	RAMILO MENDOZA
ACCOUNT REP:	
PROJECT CONTACT:	
SHEET NO: 4 OF 9	SCALE: 1"=40'
DWN. BY: SEI	DATE: 12/05/2017
CHKD. BY:	APPVD. BY:
TITLE	
GIR 2018-CLV-HIGHLAND SQUARE	
DESIGN PLAN	
L17-01710	
107V7170-GAS	

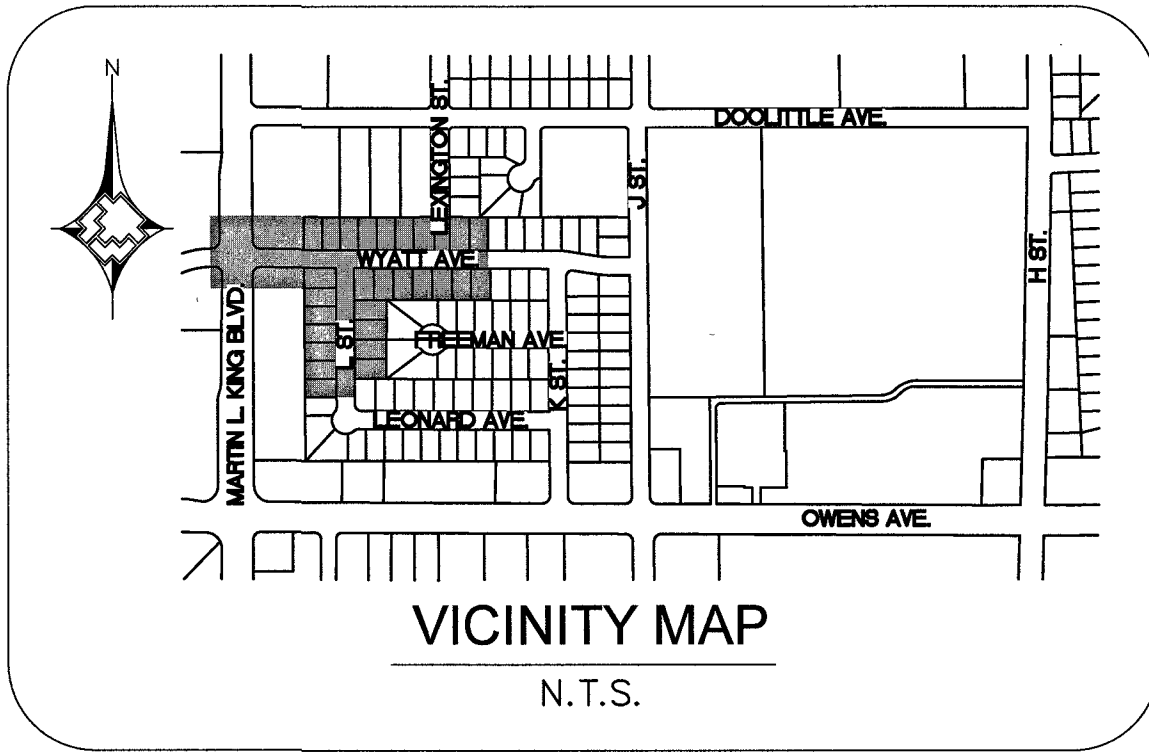
LOCATION	ATLAS #/TILE #
SEC 21	x624y522
T20S R61E	x624y524
M.D.M.	

PHONE: 702-365-2189	PHONE:
PHONE:	PHONE:
DATE: 12/05/2017	APPVD. BY:
TITLE	
GIR 2018-CLV-HIGHLAND SQUARE	
DESIGN PLAN	
L17-01710	
107V7170-GAS	



MATCHLINE - SEE SHEET 5 OF 10

MATCHLINE - SEE SHEET 6 OF 10

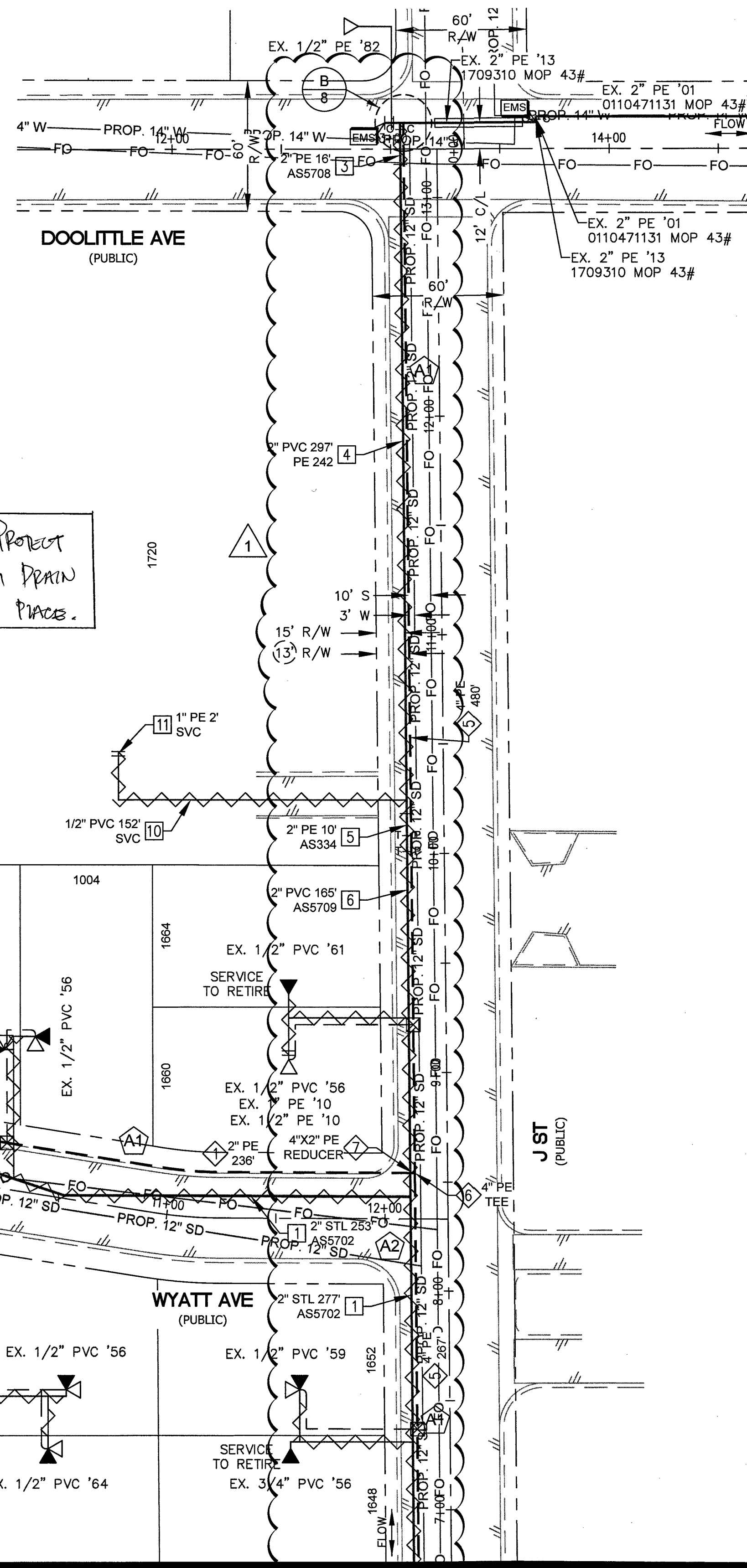
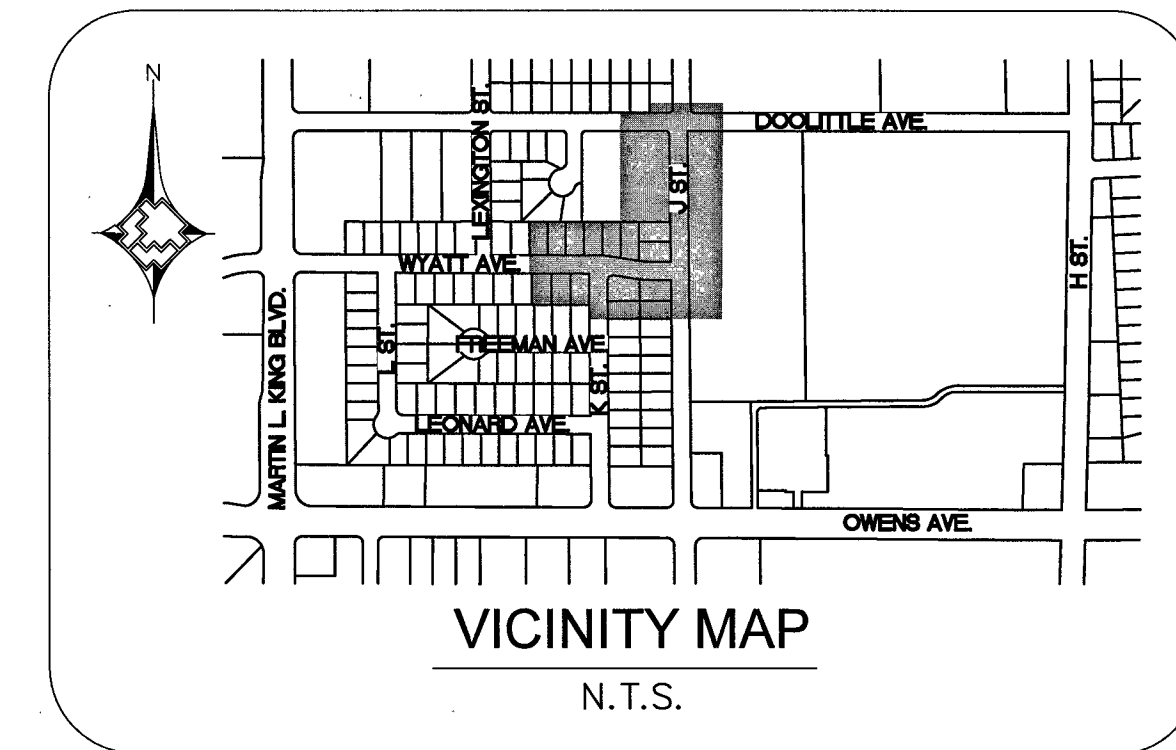
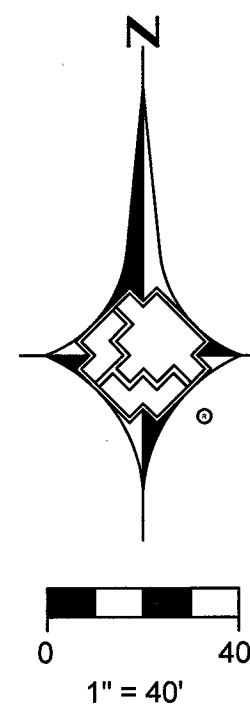


- RTC NOTES:
- PAVEMENT REPAIR SHALL CONFORM TO RTC:
- A1 500.3
 - A2 500.5
 - A3 503

MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
1	100-5101	PROPOSED 2" PE MAIN
2	140-3074	PROPOSED 2" PE TEE

MATERIAL LIST FOR PROPOSED ABANDONMENT FACILITIES		
ITEM#	PROPERTY UNITS #	DESCRIPTION
1	3760202	ABANDON 2" STL MAIN '56
8	3800601	ABANDON 3/4" PVC SVC '56

DOC_3431281



MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES

ITEM#	STOCK ID#	DESCRIPTION
1	100-5101	PROPOSED 2" PE MAIN
2	140-3074	PROPOSED 2" PE TEE
5	100-5201	PROPOSED 4" PE MAIN
6	140-3076	PROPOSED 4" PE TEE
7	140-5118	PROPOSED 4"x2" PE REDUCER

MATERIAL LIST FOR PROPOSED ABANDONMENT FACILITIES

ITEM#	PROPERTY UNITS #	DESCRIPTION
1	3760202	ABANDON 2" STL MAIN '56
3	3760102	ABANDON 2" PE MAIN '82
4	3760602	ABANDON 2" PVC MAIN '61
5	3760102	ABANDON 2" PE MAIN '83
6	3760202	ABANDON 2" STL MAIN '56
10	3800601	ABANDON 1/2" PVC SVC '68
11	3800101	ABANDON 1" PE SVC '09

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

- A1 500.3
- A2 500.5
- A3 503



MATCHLINE - SEE SHEET 4 OF 10

MATCHLINE - SEE SHEET 6 OF 10

NEW ALIGNMENT FOR PROP. GAS MAIN ON J ST. RCM 05/23/2018

NO.	DESCRIPTION	BY	DATE	APPVD.
3.				
4.				

REVISIONS



TAX CODES	UNIT NO.	UNIT TYPE	INSTL. PROPOSED	RETIRED COMPLETED

AS-BUILT DRAWING-PRESSURE TEST DATA

PIPE DIA.	PIPE LENGTH	PIPE TYPE	MIN. DURATION	TEST PRES. (PSIG) (MAX)	TEST MEDIUM	TEST METHOD

INDIVIDUAL PERFORMING VISUAL INSPECTION
VISUAL INSPECTION CERTIFICATION
I HAVE VISUALLY INSPECTED ALL HEATED FUSION, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT HAVE PERFORMED

AS-BUILTS ACCEPTED BY	DATE

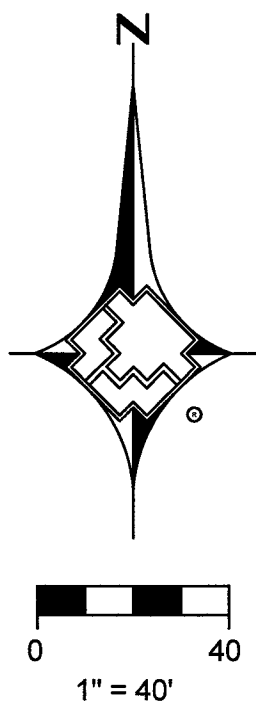
CONSTRUCTION
INSPECTOR
FOREMAN
REVIEWED BY

PERMIT INFORMATION
CITY OF LAS VEGAS
TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21_DIST_092	3431281
LOCATION	ATLAS #/TITLE #
SEC 21 T20S R61E	x624y522 x624y524
M.D.M.	

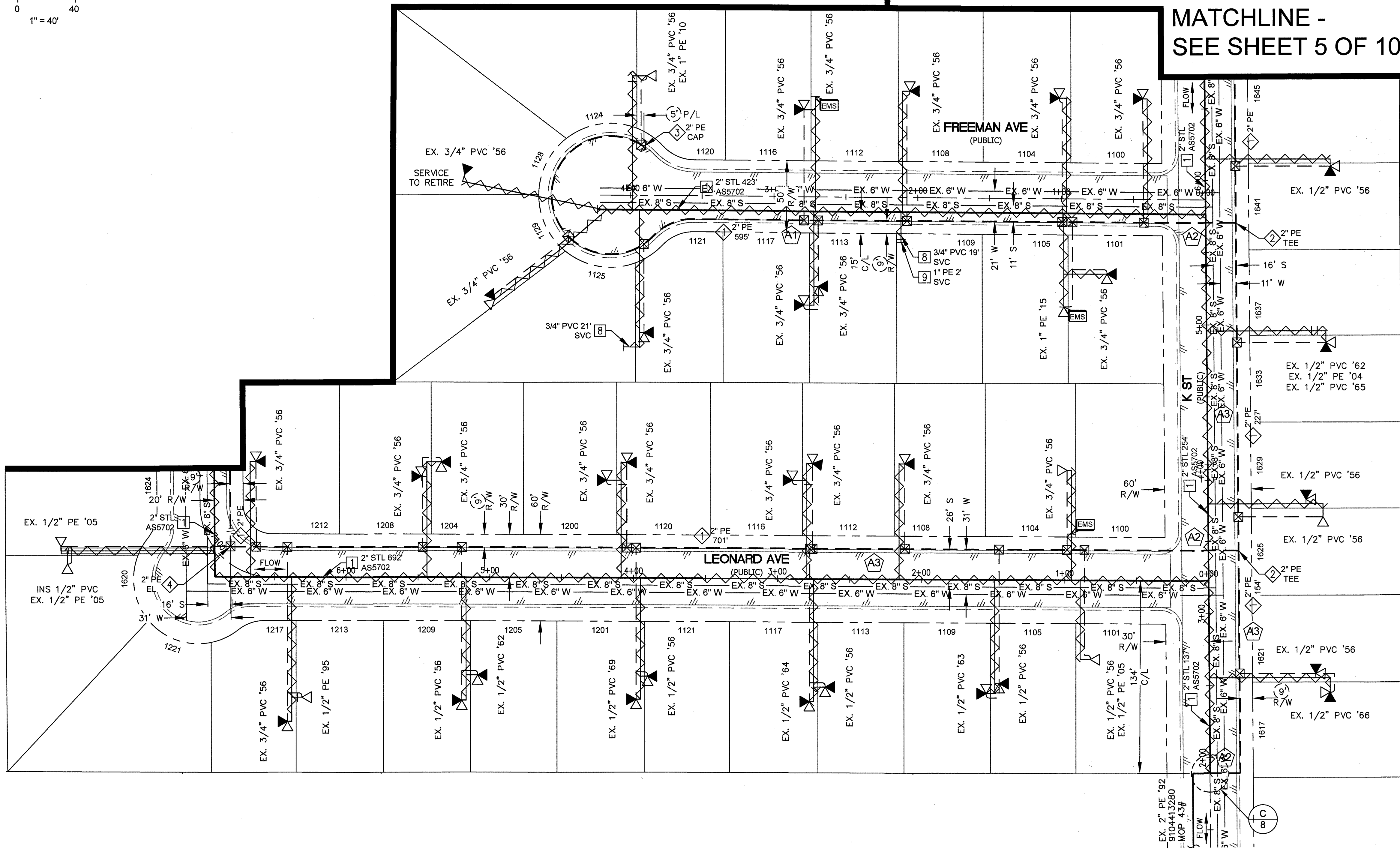
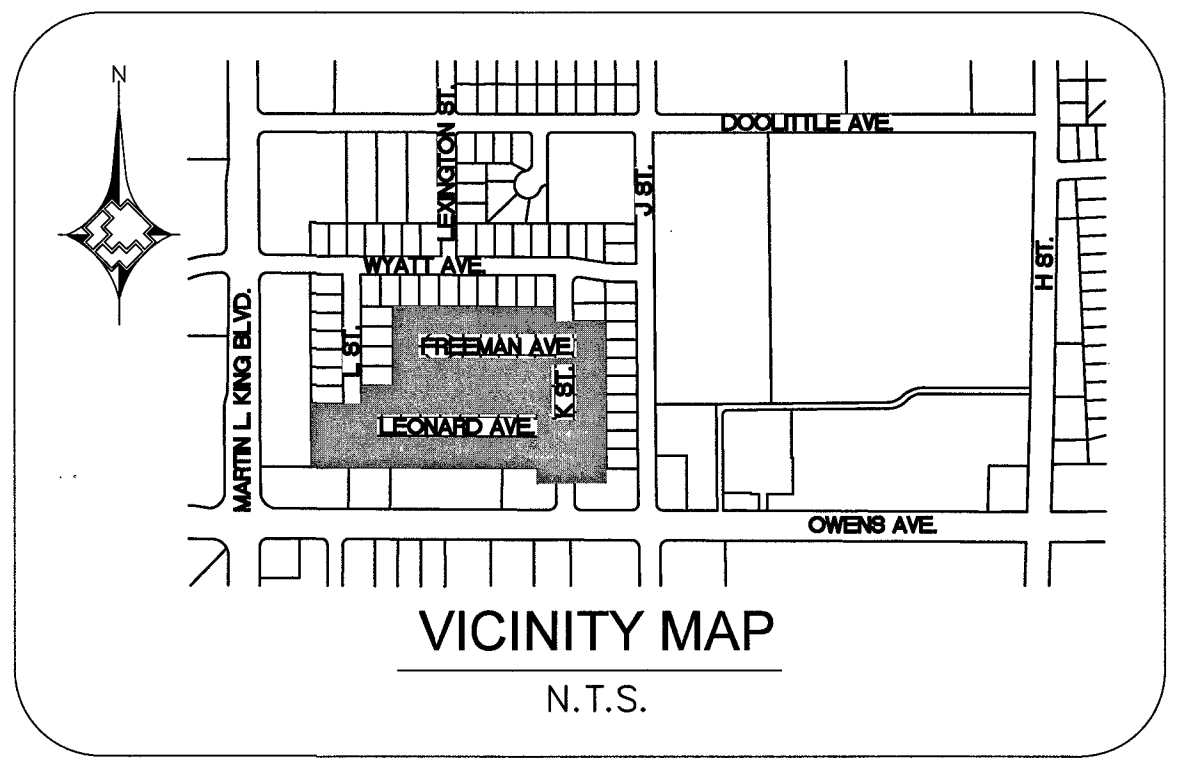
ENGINEER/TECH: RAMILO MENDOZA	PHONE: 702-365-2189
ACCOUNT REP:	PHONE:
PROJECT CONTACT:	PHONE:
SHEET NO. 5 OF 9	SCALE: 1"=40'
DWN. BY: SEI	DATE: 12/05/2017
CHKD. BY:	APPVD. BY:
TITLE	
GIR 2018-CLV-HIGHLAND SQUARE DESIGN PLAN	

DOC_3431281



MATCHLINE - SEE SHEET 4 OF 10

MATCHLINE -
SEE SHEET 5 OF 10



MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
1	100-5101	PROPOSED 2" PE MAIN
2	140-3074	PROPOSED 2" PE TEE
3	140-3060	PROPOSED 2" PE CAP
4	140-3067	PROPOSED 2" PE 90° ELBOW

MATERIAL LIST FOR PROPOSED ABANDONMENT FACILITIES		
ITEM#	PROPERTY UNITS #	DESCRIPTION
1	3760202	ABANDON 2" STL MAIN '56
8	3800601	ABANDON 3/4" PVC SVC '56
9	3800101	ABANDON 1" PE SVC '10

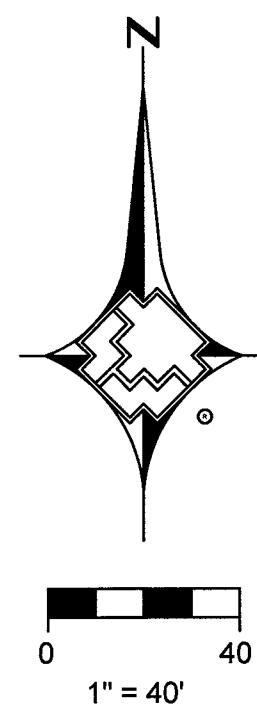
RTC NOTES:
PAVEMENT REPAIR SHALL CONFORM TO RTC:

A1	500.3
A2	500.5
A3	503

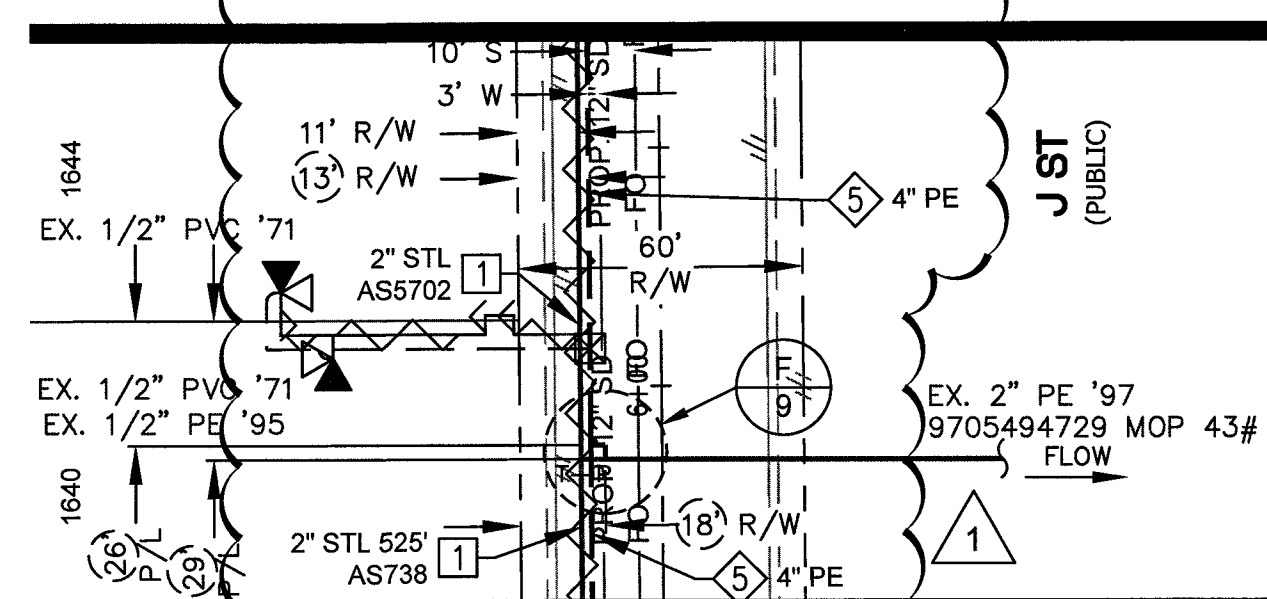
MATCHLINE - SEE SHEET 7 OF 7



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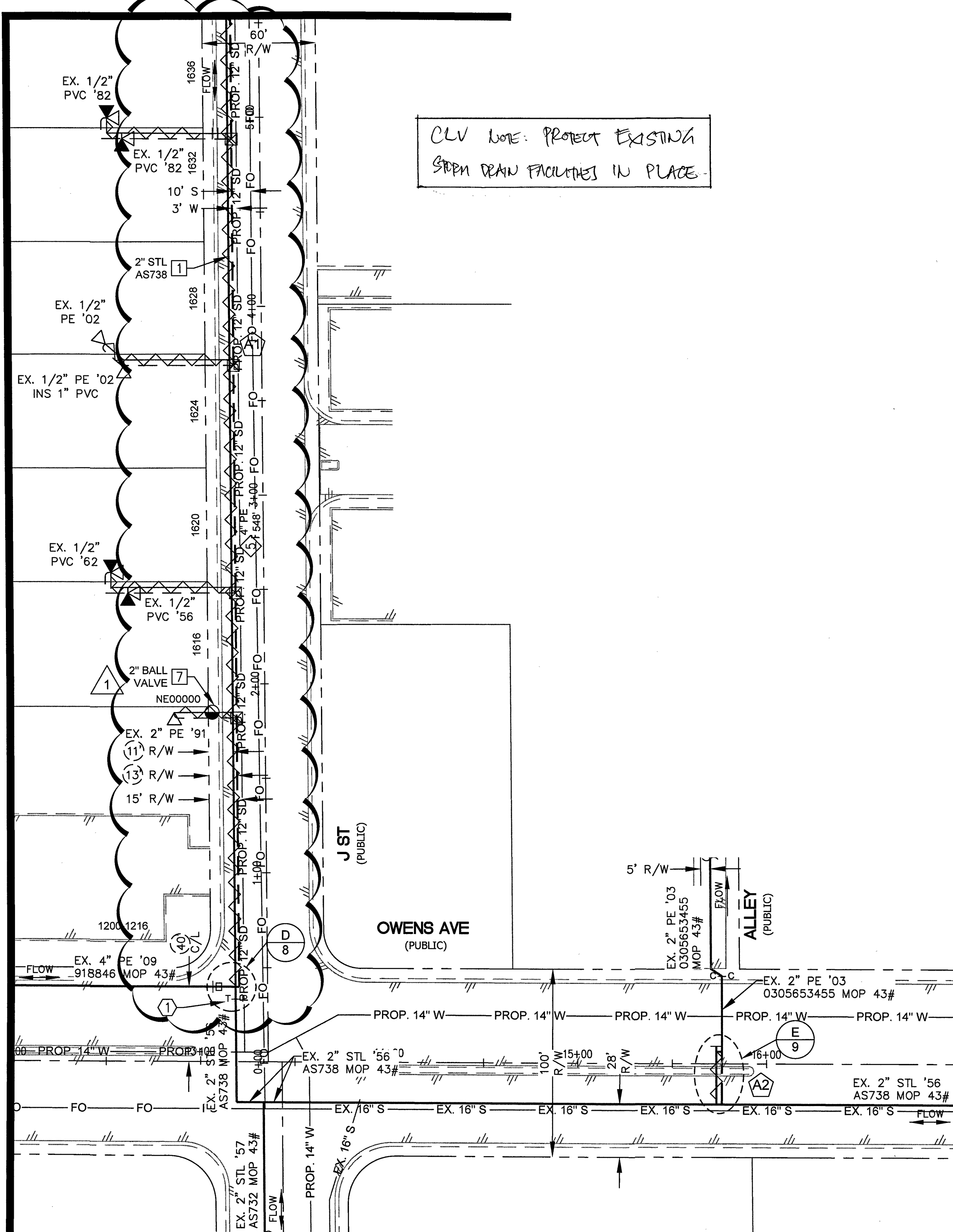


MATCHLINE - SEE SHEET 5 OF 10

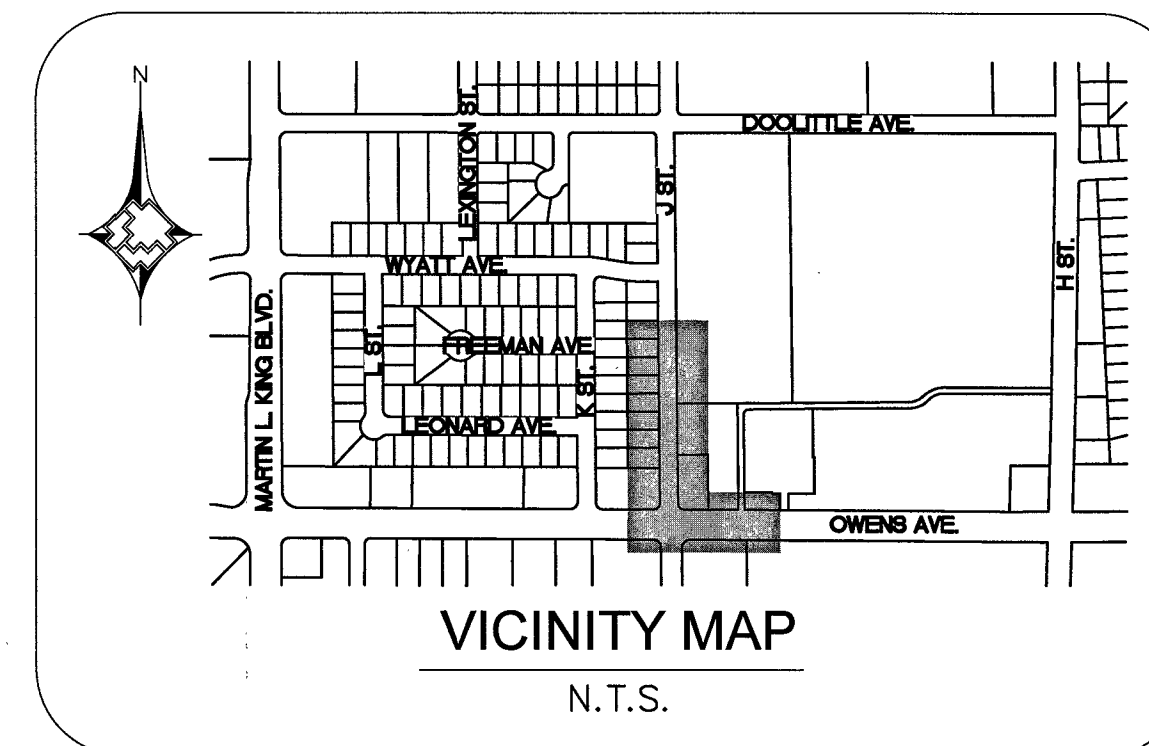


MATCHLINE "A" ON THIS SHEET

MATCHLINE "A" ON THIS SHEET



CLV NOTE: PROTECT EXISTING
SEWER DRAIN FACILITIES IN PLACE.



MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES

ITEM#	STOCK ID#	DESCRIPTION
1	100-5201	PROPOSED 2" PE MAIN
4	100-5201	PROPOSED 2" PE 90° ELBOW
5	100-5201	PROPOSED 4" PE MAIN
8	160-8174	PROPOSED 4"x2" PE TAPPING TEE
11	100-5201	PROPOSED 2" PE TAP TEE

MATERIAL LIST FOR PROPOSED ABANDONMENT FACILITIES

ITEM#	PROPERTY UNITS #	DESCRIPTION
1	3760202	ABANDON 2" STL MAIN '56
7		ABANDON 2" BALL VALVE '91

MATERIAL LIST FOR STEEL FACILITIES

ITEM#	STOCK ID#	DESCRIPTION
1	251-2406	CATHODIC TERMINAL TEST STATION 4"x18" LONG HNDY

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

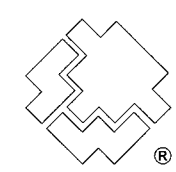
- A1 500.3
- A2 500.5
- A3 503



NEW ALIGNMENT FOR PROP. GAS MAIN ON J ST. RCM 05/23/2018

NO.	DESCRIPTION	BY	DATE	APPVD.
1				

REVISIONS



SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. PROPOSED	RETIRED	INSTL. COMPLETED	RETIRED

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 (HOUR): (START)		(STOP)
PERFORMED BY:		
DATE VERIFIED BY:		

INDIVIDUAL PERFORMING VISUAL INSPECTION
VISUAL INSPECTION CERTIFICATION
I HAVE VISUALLY INSPECTED ALL HEATED FUSION, 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
ISO_21_DIST_092

W.R. NO.
3431281

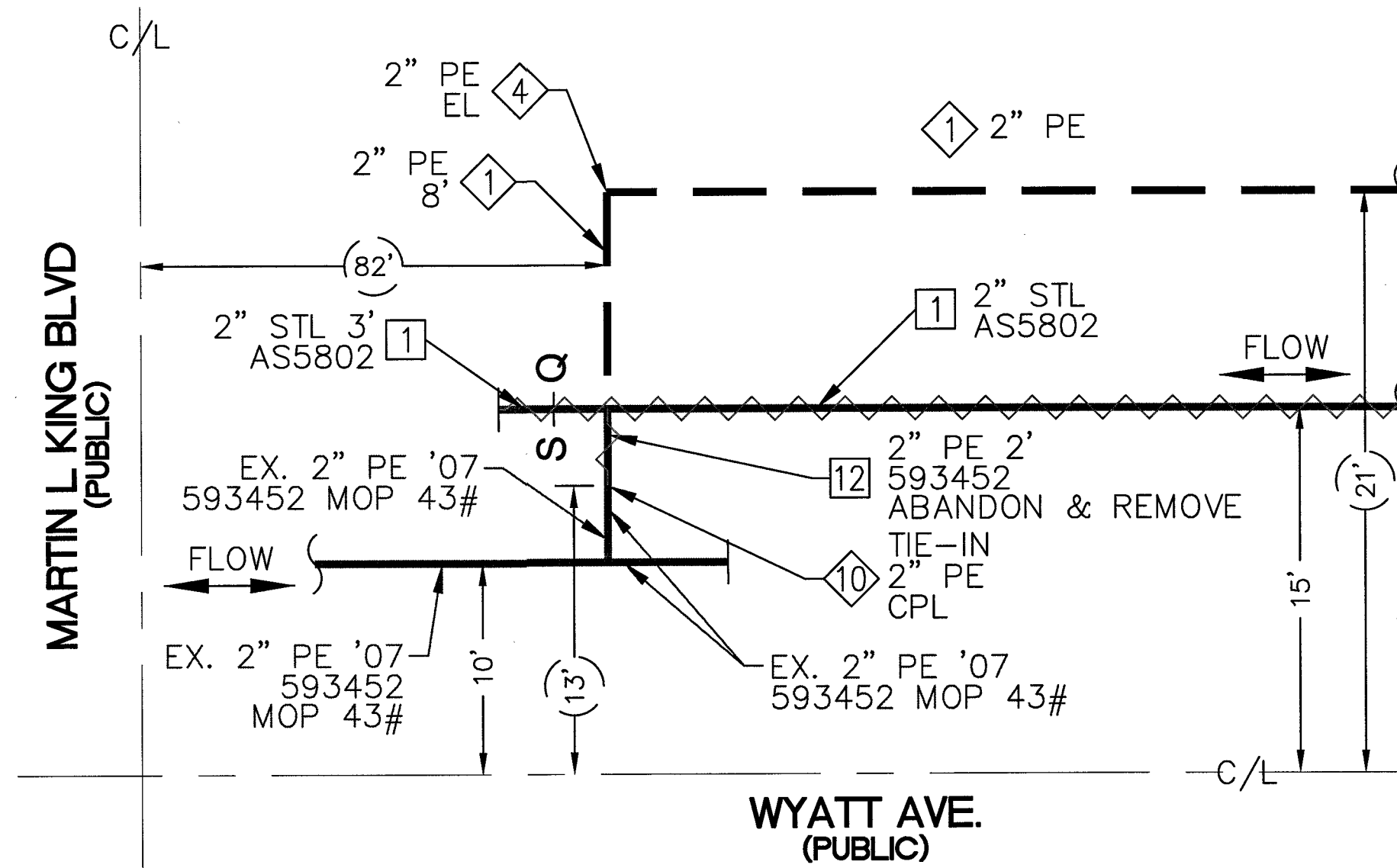
LOCATION
SEC 21
T20S R61E
M.D.M.

ATLAS #/TITLE #
x624y522
x624y524

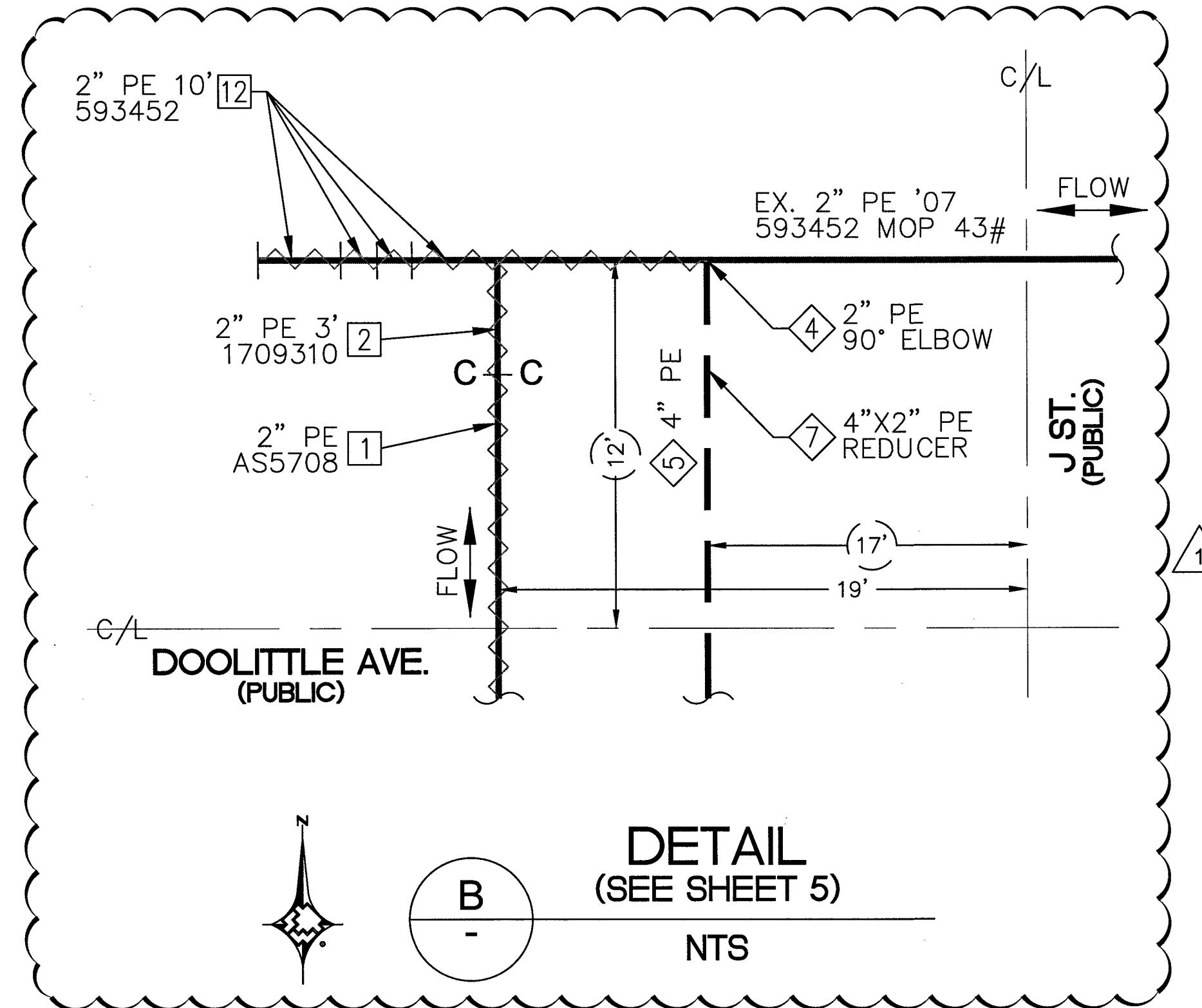
ENGINEER/TECH: RAMILO MENDOZA
ACCOUNT REP:
PROJECT CONTACT:
SHEET NO: 7 OF 9
DWN. BY: SEI
SCALE: 1"=40'
CHKD. BY:
DATE: 12/05/2017
APPVD. BY:

GIR 2018-CLV-HIGHLAND SQUARE
DESIGN PLAN

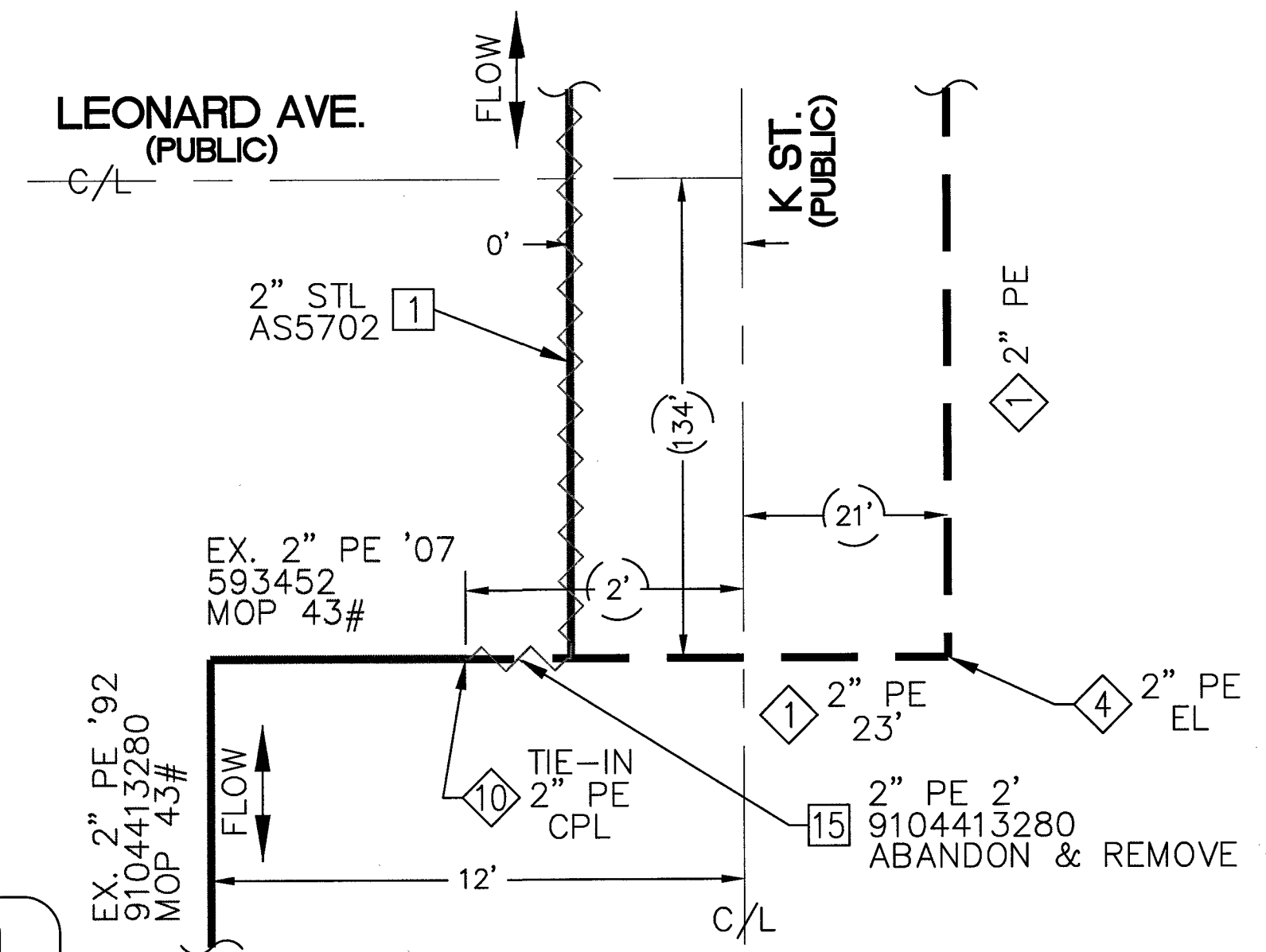
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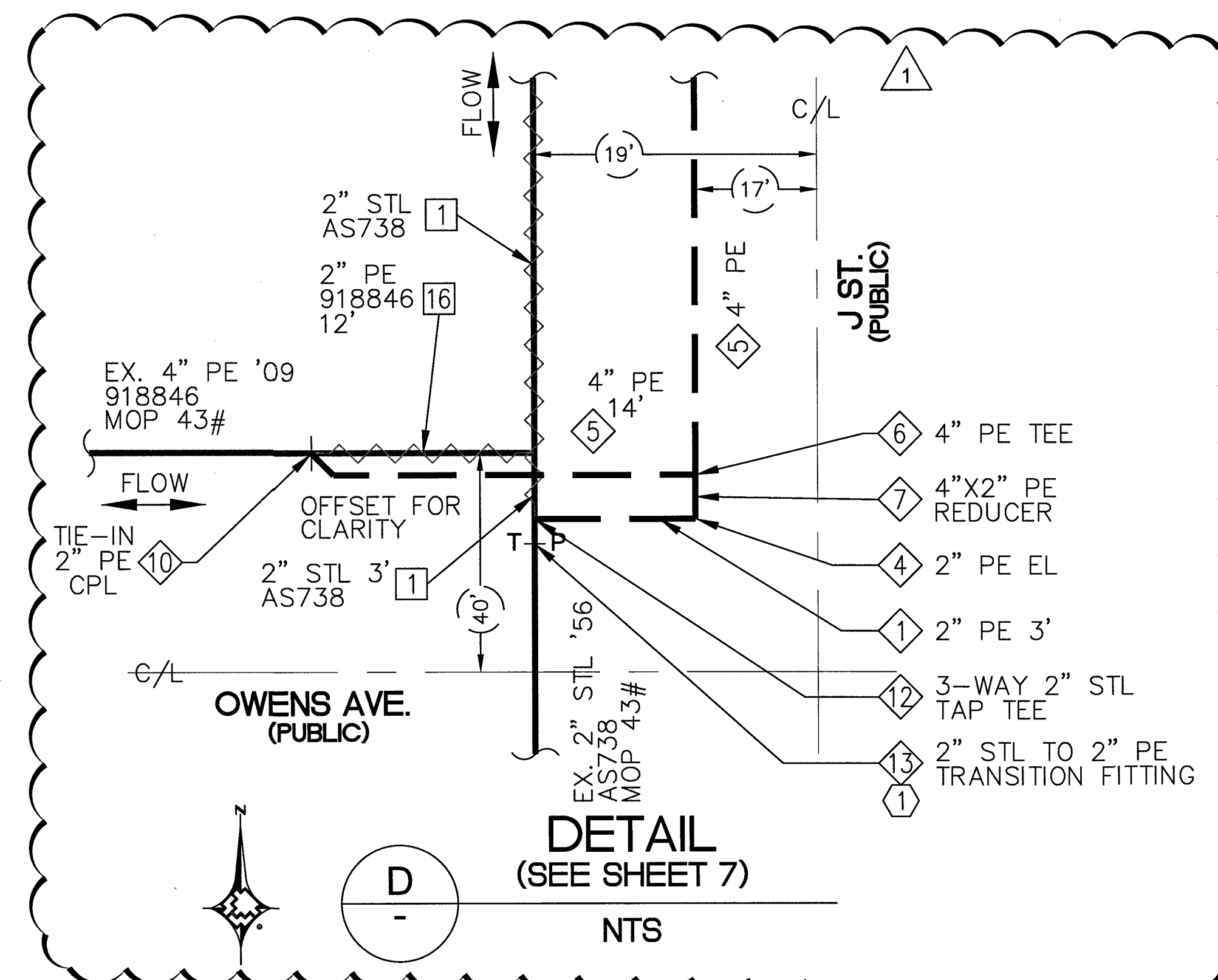
DETAIL
(SEE SHEET 4)
NTS



DETAIL
(SEE SHEET 5)
NTS



DETAIL
(SEE SHEET 6)
NTS



DETAIL
(SEE SHEET 7)
NTS

**FOR STEEL ONLY
STEEL TIE IN #1**

PIPE TO SOIL _____
ANODE INSTALLED?
YES ☐ NO ☐
IF YES, PIPE TO SOIL _____

TYPE OF PIPE COATING

2 ☐ TAR WRAP
3 ☐ ASPHALT
4 ☐ PRITEC
6 ☐ FUSION BONDED EPOXY
8 ☐ PLASTIC TAPE WRAP
9 ☐ EXTRUDED POLY COATING
10 ☐ OTHER

CONDITION OF PIPE COATING

E ☐ EXCELLENT
G ☐ GOOD
F ☐ FAIR
P ☐ POOR
N ☐ NO COATING

CONDITION OF PIPE

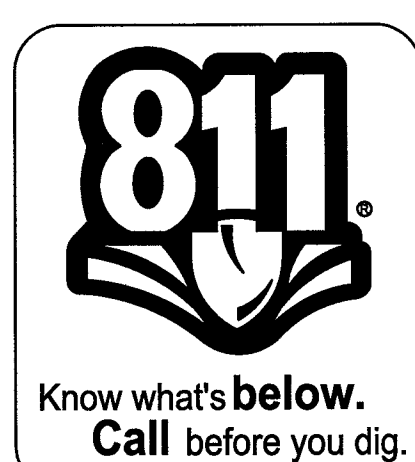
IF EXPOSED, IF CUT OR
EXTERNAL COUPON,
INTERNAL

EG ☐ GOOD ☐ IG
ESC ☐ SLIGHT CORROSION ☐ ISC
EHC ☐ HEAVY CORROSION ☐ IHC

MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
1	100-5101	PROPOSED 2" PE MAIN
2	140-3074	PROPOSED 2" PE TEE
3	140-3060	PROPOSED 2" PE CAP
4	140-3067	PROPOSED 2" PE 90° ELBOW
5	100-5201	PROPOSED 4" PE MAIN
6	140-3076	PROPOSED 4" PE TEE
7	140-5118	PROPOSED 4"X2" PE REDUCER
10	140-3532	PROPOSED 2" PE COUPLER
12	160-8018	PROPOSED 3-WAY 2" PE STEEL TAP TEE
13	160-8162	PROPOSED 2" STL TO 2" PE TRANSITION FITTING

MATERIAL LIST FOR PROPOSED ABANDONMENT FACILITIES		
ITEM#	PROPERTY UNITS #	DESCRIPTION
1	3760202	ABANDON 2" STL MAIN '56
2	3760102	ABANDON 2" PE MAIN '13
12	3760202	ABANDON 2" PE MAIN '07
15	3760202	ABANDON 2" PE MAIN '92
16	3760202	ABANDON 2" PE MAIN '09

MATERIAL LIST FOR STEEL FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
1	251-2406	CATHODIC TERMINAL TEST STATION 4"X18" LONG HNDY



NEW ALIGNMENT FOR PROP. GAS MAIN ON J ST. RCM 05/23/2018

NO.	DESCRIPTION	BY	DATE	APPVD.
1				
2				
3				
4				

REVISIONS

SOUTHWEST GAS CORPORATION

SEE SHEET 3

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. PROPOSED	RETIRED COMPLETED

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

TEST MEDIUM TEST METHOD

PIPE DIA. _____ GAUGE

PIPE LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

TEST PRES. (PSIG) (MAX) _____ (MIN) _____

TIME (HOUR) (STOP) _____

DATE (START) (STOP) _____

PERFORMED BY: _____

DATE VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION
VISUAL INSPECTION CERTIFICATION

I HAVE VISUALLY INSPECTED ALL HEATED FUSION, 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 _____

SEE SHEET 3

PERMIT INFORMATION

CITY OF LAS VEGAS

TAX CODE 02-0200

ISOLATION AREA ISO_21_DIST_092	W.R. NO. 3431281	ENGINEER/TECH: RAMILO MENDOZA ACCOUNT REP. PROJECT CONTACT: SHEET NO: 8 OF 9 DWN. BY: SEI SCALE: NTS CHKD. BY: DATE: 12/05/2017 APPVD. BY:	PHONE: 702-365-2189 PHONE: PHONE:
LOCATION SEC 21 T20S R61E M.D.M.	ATLAS #/TITLE # x624y522 x624y524	GIR 2018-CLV-HIGHLAND SQUARE DESIGN PLAN	

FOR STEEL ONLY
STEEL TIE IN #2

PIPE TO SOIL _____
ANODE INSTALLED?
YES ☐ NO ☐
IF YES, PIPE TO SOIL _____

TYPE OF PIPE COATING

2 ☐ TAR WRAP
3 ☐ ASPHALT
4 ☐ PRITEC
6 ☐ FUSION BONDED EPOXY
8 ☐ PLASTIC TAPE WRAP
9 ☐ EXTRUDED POLY COATING
10 ☐ OTHER

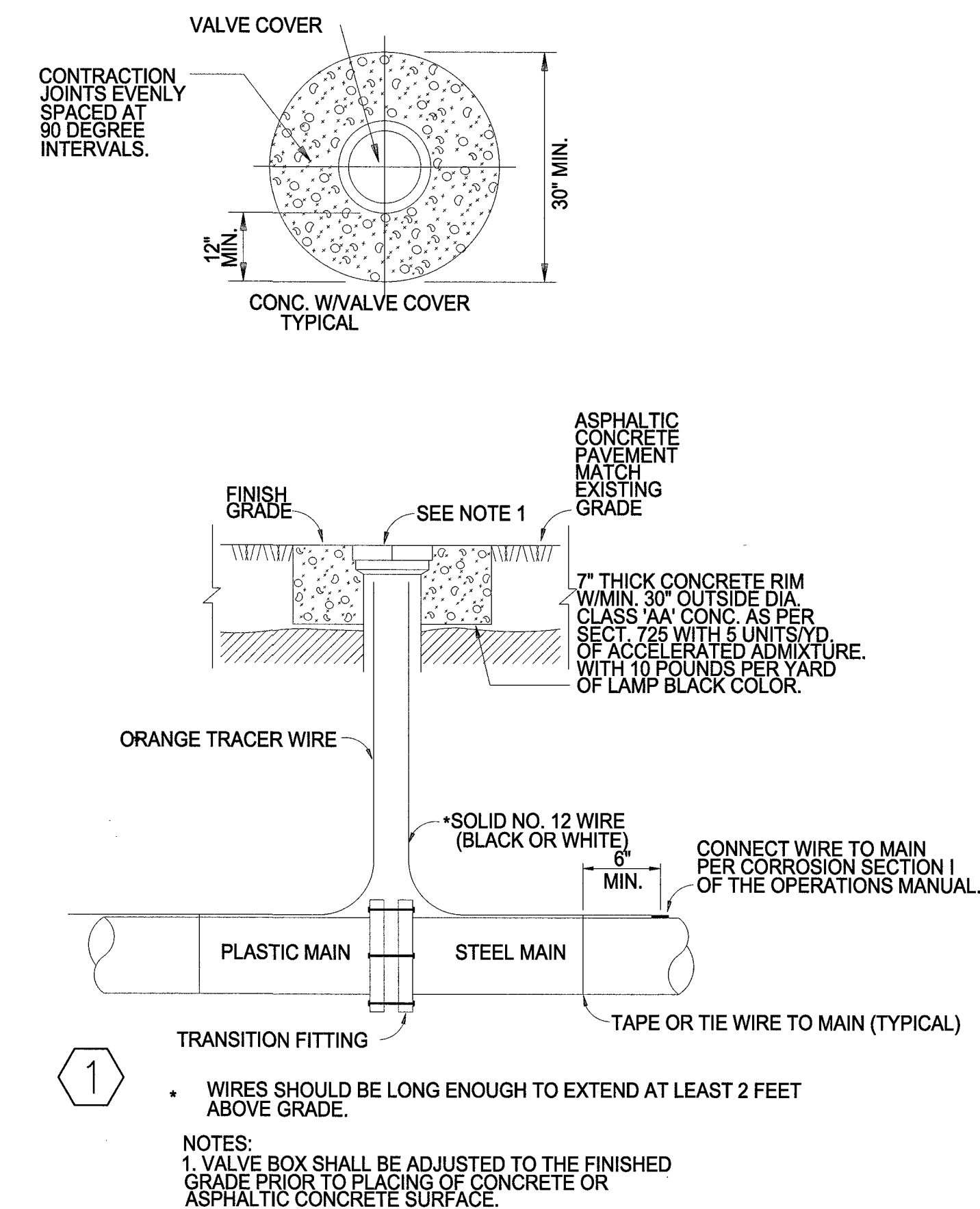
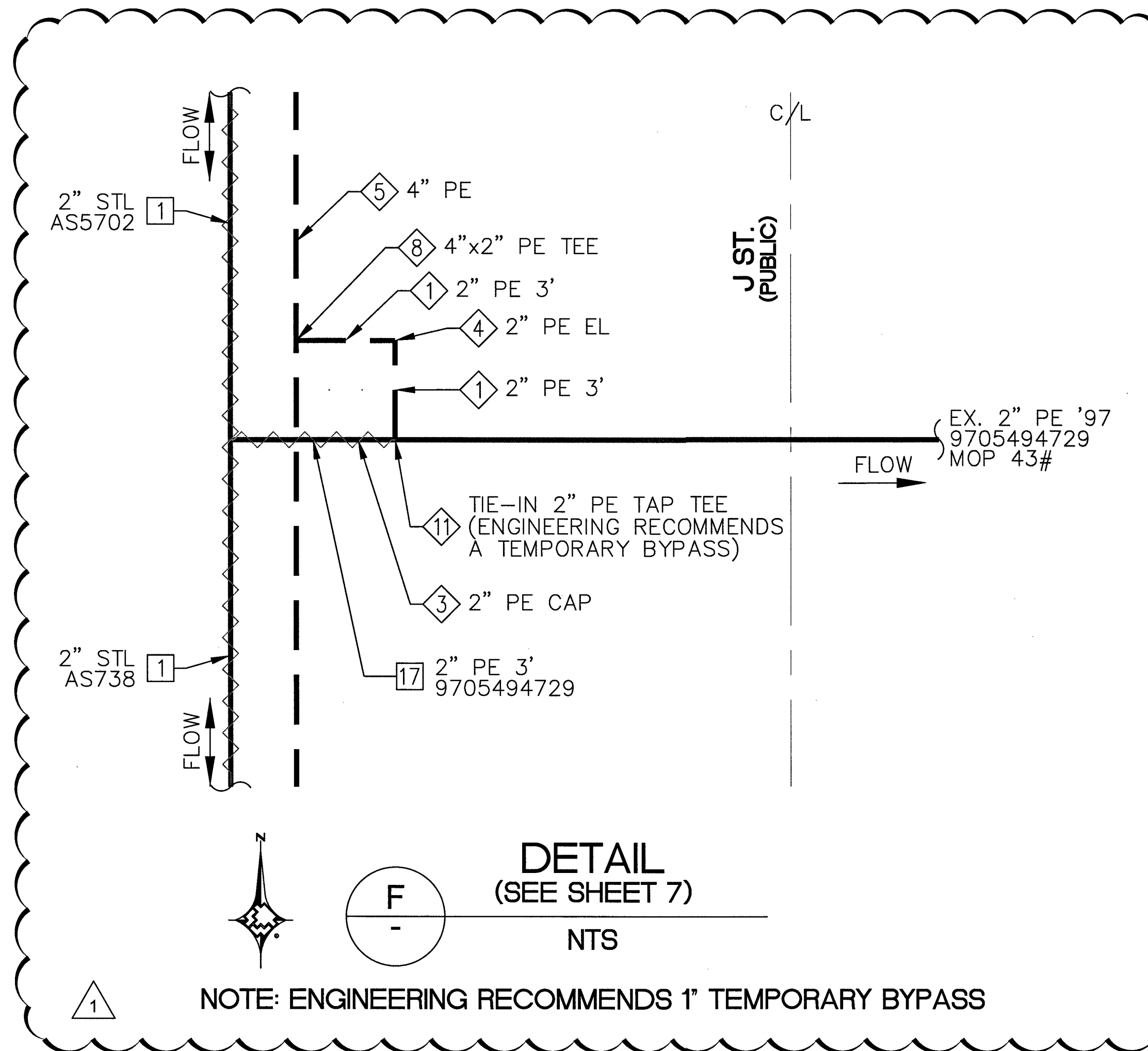
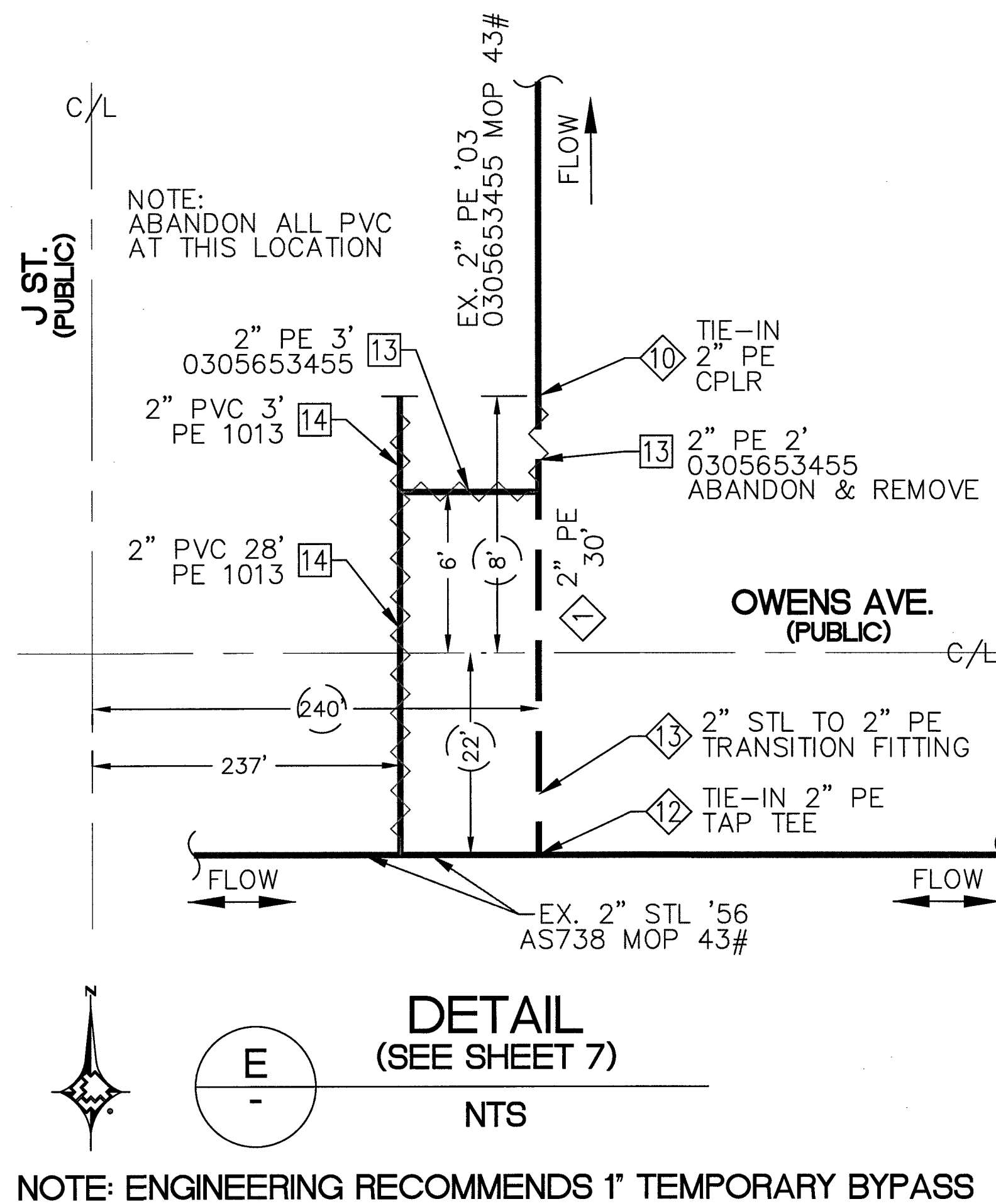
CONDITION OF PIPE COATING

E ☐ EXCELLENT
G ☐ GOOD
F ☐ FAIR
P ☐ POOR
N ☐ NO COATING

CONDITION OF PIPE

IF EXPOSED. IF CUT OR
EXTERNAL COUPON. INTERNAL

EG ☐ GOOD ☐ IG
ESC ☐ SLIGHT CORROSION ☐ ISC
EHC ☐ HEAVY CORROSION ☐ IHC



DETAIL "245"

PLS TO STL TRANSITION TEST STA

MATERIAL LIST FOR STEEL FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
1	251-2406	CATHODIC TERMINAL TEST STATION 4"x18" LONG HNDY

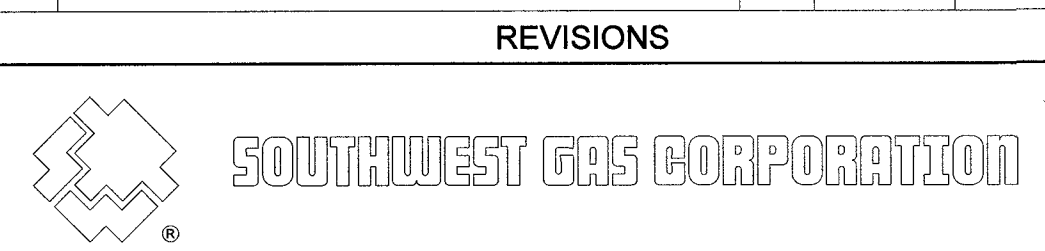
MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
1	100-5101	PROPOSED 2" PE MAIN
3	140-3060	PROPOSED 2" PE CAP
4	140-3067	PROPOSED 2" PE 90° ELBOW
5	140-3067	PROPOSED 4" PE MAIN
8	160-8174	PROPOSED 4"x2" PE TAPPNG TEE
10	140-3532	PROPOSED 2" PE COUPLER
11	160-8171	PROPOSED 2" PE TAPPING TEE
12	160-8018	PROPOSED 3-WAY 2" PE STEEL TAP TEE
13	160-8171	PROPOSED 2" STL TO 2" PE TRANSITION FITTING

MATERIAL LIST FOR PROPOSED ABANDONMENT FACILITIES		
ITEM#	PROPERTY UNITS #	DESCRIPTION
13	3760202	ABANDON 2" PE MAIN '03
14	3760602	ABANDON 2" PVC MAIN '64
15	3760602	ABANDON 2" PVC MAIN '66
17	3760602	ABANDON 2" PE MAIN '97

- CATHODIC PROTECTION NOTES:
- CONTACT CP DEPARTMENT AT (702) 528-7873 AT LEAST 48 HOURS PRIOR TO WORK TO COORDINATE INSTALLATION
 - THIS WR AFFECTS THE FOLLOWING CP AREAS:
CPID#: R6 1ST A
WMIS#: 21DCP0021136
 - INSTALL TEST STATION ON SHEET 7. SEE DETAIL "245" ON THIS SHEET 9.



NO.	DESCRIPTION	BY	DATE	APPVD.
3.				
4.				



TAX CODES	UNIT NO.	UNIT TYPE	INSTL. PROPOSED	RETIRED	INSTL. COMPLETED	RETIRED

AS-BUILT DRAWING-PRESSURE TEST DATA

TEST MEDIUM TEST METHOD

PIPE DIA. _____ GAUGE _____

PIPE LENGTH _____ CHART _____

PIPE TYPE _____ GAUGE/ PRESS REC SNR _____

MIN. DURATION _____

TEST PRES. (PSIG): (MAX) _____ (MIN) _____

TIME: (START) _____ (STOP) _____

PERFORMED BY: _____

DATE: _____

DATE: _____

DATE: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION VISUAL INSPECTION CERTIFICATION

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

NAME _____ DATE _____

INSPECTOR _____

FOREMAN _____

REVIEWED BY _____

AS-BUILTS ACCEPTED BY _____ DATE _____

POSTED BY _____ DATE _____

POSTING QC'D BY _____ DATE _____

CONSTRUCTION

PERMIT INFORMATION

CITY OF LAS VEGAS

TAX CODE 02-0200

ISOLATION AREA

ISO_21_DIST_092

W.R. NO. 3431281

LOCATION

SEC 21

T20S R61E

M.D.M.

ENGINEER/TECH: RAMILO MENDOZA

ACCOUNT REP. _____

PROJECT CONTACT: _____

SHEET NO: 9 OF 9

DWN. BY: SEI

SCALE: NTS

CHKD. BY: _____

DATE: 12/05/2017

APPVD. BY: _____

TITLE

GIR 2018-CLV-HIGHLAND SQUARE

DESIGN PLAN