

# CITY OF LATHROP

## LOUISE AVENUE PAVEMENT REHABILITATION PROJECT

### CIP PS 18-01



**LOCATION MAP**  
1"=1000'

SHEET INDEX	
SHEET NO.	SHEET DESCRIPTION
P1	TITLE SHEET
P2	STREET IMPROVEMENT PLANS (BASE BID) - STA 9+00 TO STA 19+50
P3	STREET IMPROVEMENT PLANS (BASE BID) - STA 19+50 TO STA 29+50
P4	STREET IMPROVEMENT PLANS (BASE BID) - STA 29+50 TO STA 39+50
P5	STREET IMPROVEMENT PLANS (BASE BID) - STA 39+50 TO STA 49+50
P6	STREET IMPROVEMENT PLANS (BASE BID) - STA 49+50 TO STA 58+00
P7	ENLARGEMENT "A"
P8	CROSS SECTIONS - STA 9+41.14 TO STA 16+00
P9	CROSS SECTIONS - STA 16+50 TO STA 26+00
P10	CROSS SECTIONS - STA 26+50 TO STA 36+00
P11	CROSS SECTIONS - STA 36+50 TO STA 46+00
P12	CROSS SECTIONS - STA 46+50 TO STA 53+08.45
P13	CONSTRUCTION DETAILS
P14	CONSTRUCTION DETAILS
P15	STRIPING & SIGNAGE PLANS - STA 9+00 TO STA 29+50
P16	STRIPING & SIGNAGE PLANS - STA 29+50 TO STA 58+00
P17	STREET IMPROVEMENT PLANS (BID ALTERNATE 1) - STA 9+00 TO STA 19+50
P18	STREET IMPROVEMENT PLANS (BID ALTERNATE 1) - STA 19+50 TO STA 29+50
P19	STREET IMPROVEMENT PLANS (BID ALTERNATE 1 & 2) - STA 29+50 TO STA 39+50
P20	STREET IMPROVEMENT PLANS (BID ALTERNATE 2) - STA 39+50 TO STA 49+50
P21	STREET IMPROVEMENT PLANS (BID ALTERNATE 2) - STA 49+50 TO STA 58+00

SHEET INDEX (CONTINUED)	
SHEET NO.	SHEET DESCRIPTION
W1	COVER SHEET
W2	GENERAL NOTES
W3	DETAILS
W4	CROSS SECTIONS
W5	EAST LOUISE AVENUE WTER MAIN (STA 1+00 TO STA 9+00)
W6	EAST LOUISE AVENUE WTER MAIN (STA 9+00 TO STA 19+00)
W7	EAST LOUISE AVENUE WTER MAIN (STA 19+00 TO STA 29+00)
W8	EAST LOUISE AVENUE WTER MAIN (STA 29+00 TO STA 39+00)
W9	EAST LOUISE AVENUE WTER MAIN (STA 39+00 TO STA 49+00)
W10	EAST LOUISE AVENUE WTER MAIN (STA 49+00 TO END)

CITY OF LATHROP DEPARTMENT OF PUBLIC WORKS	
APPROVED BY:	DATE: 7-8-2020
CITY OF LATHROP ENGINEERING	
APPROVED BY:	DATE: 7-8-2020 RCE NO: 2466 EXP DATE: 9-30-22
LATHROP - MANTECA FIRE DISTRICT	
APPROVED BY: _____	DATE: _____
CITY OF LATHROP PUBLIC WORKS DEPARTMENT	
APPROVED BY: _____	DATE: _____
CITY OF LATHROP COMMUNITY DEVELOPMENT DEPARTMENT	
APPROVED BY: _____	DATE: _____
CITY OF LATHROP PARKS AND RECREATION DEPARTMENT	
APPROVED BY: _____	DATE: _____

CITY OF LATHROP  
LOUISE AVENUE PAVEMENT REHABILITATION PROJECT  
COVER SHEET

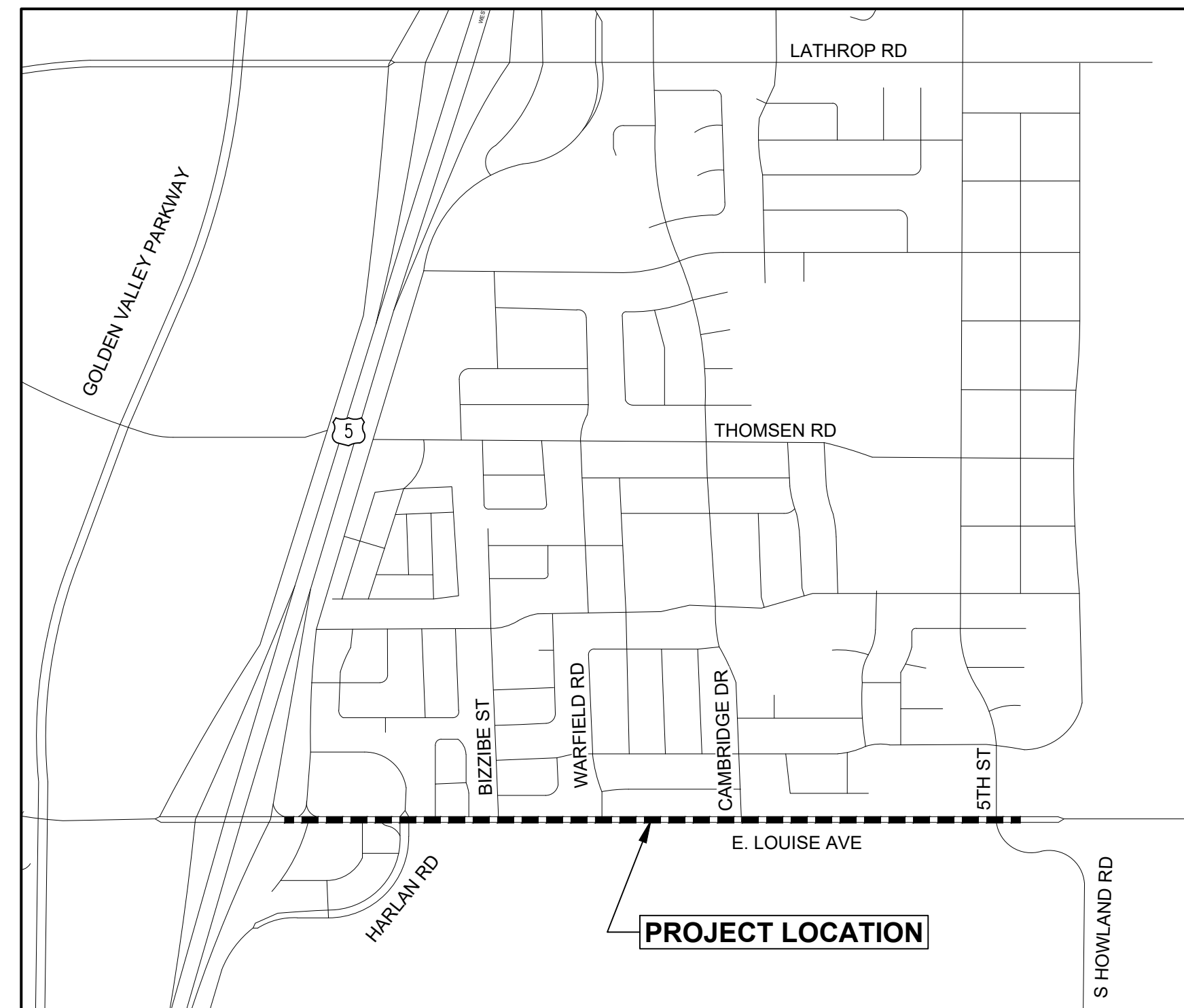
DRAWN BY: \_\_\_\_\_  
PROJECT NUMBER: \_\_\_\_\_  
SCALE: \_\_\_\_\_  
AS SHOWN  
VERIFY SCALE  
BAR REPRESENTS  
1" ON ORIGINAL  
DATE: JULY 2020  
SHEET NUMBER: \_\_\_\_\_



# CITY OF LATHROP

## LOUISE AVENUE PAVEMENT REHABILITATION PROJECT

### CIP PS 18-01



**LOCATION MAP**  
1"=1000'

**LEGEND**

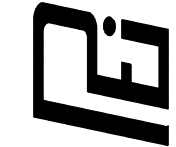
	TYPICAL SECTION NO. 1: PULVERIZE 18" EX. AC & AB, PLANE 9", CEMENT TREAT 11", PLACE 2-1/2" RHMA ON 6-1/2" HMA		DI DRAINAGE INLET (EX.)
	FULL DEPTH ASPHALT PAVING SECTION NO. 1: PLACE 14-1/2" HMA		○ REMOVE & REPLACE LOOP DETECTOR
	FULL DEPTH ASPHALT PAVING SECTION NO. 2: PLACE 2-1/2" RHMA ON 12" HMA		⊙ DH LOOP DETECTOR HANDHOLE (EX.)
	REMOVE & REPLACE 8" HMA		○ GV GAS VALVE (EX.)
	COLD PLANE 2-1/2" & PLACE 2-1/2" RHMA		⊙ FH FIRE HYDRANT (EX.)
	INSTALL STAMPED CONCRETE		⊙ G5 G5 PULL BOX (NEW)
	INSTALL 3" SCH. 40 CONDUIT		⊙ SM SURVEY MONUMENT (EX.)
	INSTALL 4" SCH. 40 CONDUIT		⊙ TM TELECOMMUNICATION MANHOLE (EX.)
	FENCE (EX.)		⊙ SS SANITARY SEWER MANHOLE (EX.)
	COMMUNICATIONS LINE (EX.)		⊙ SD STORM DRAIN MANHOLE (EX.)
	ELECTRICAL LINE (EX.)		⊙ WV WATER VALVE (EX.)
	GAS LINE (EX.)		⊙ ISPI INSTALL SIGN POST & ROADSIDE SIGN
	STORM DRAIN LINE (EX.)		BRPM BLUE RETROREFLECTIVE PAVEMENT MARKER
	SANITARY SEWER LINE (EX.)		XX CALTRANS STRIPING DETAIL "XX"
	WATER LINE (EX.)		TYPE X CALTRANS ARROW TYPE "X"
	RIGHT OF WAY		W 12" WHITE CROSSWALK LINE (THERMO)
	BORING LOCATION		⊙ IBIP INSTALL BIKE SYMBOL W/PERSON

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P21	STREET IMPROVEMENT PLANS (BID ALTERNATE 2) - STA 49+50 TO STA 58+00

**GENERAL NOTES:**

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO COMPLETE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES AND/OR STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES BEFORE STARTING WORK (48 HOURS NOTICE REQUIRED).
- THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT 811 AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO ALLOW UTILITY OWNERS TO MARK THE LOCATION OF THEIR RESPECTIVE UNDERGROUND FACILITIES/UTILITIES, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE DIVISION OF INDUSTRIAL RELATIONS (CAL-OSHA) SAFETY STANDARDS, IN ACCORDANCE WITH SECTION 7-10.4 OF THE SSPWC. IF REQUESTED BY THE INSPECTOR, THE CONTRACTOR SHALL PROVIDE PROOF OF A PERMIT FROM CAL-OSHA.
- CONTRACTOR IS RESPONSIBLE FOR TRIMMING ALL VEGETATION WITHIN WORK ZONE THAT WILL INTERFERE WITH WORK. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS.
- DEPTH OF EXISTING PAVEMENT VARIES. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND OFF HAULING ALL GRINDINGS AS DIRECTED BY THE CITY ENGINEER.
- CONTRACTOR SHALL DISPOSE OF ALL CONSTRUCTION WASTE IN A LEGAL MANNER.
- THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING & PERPETUATING ALL SURVEY MONUMENTS WITHIN E. LOUISE AVENUE & SURROUNDING AREAS THAT ARE SHOWN OR NOT SHOWN ON THESE PLANS.

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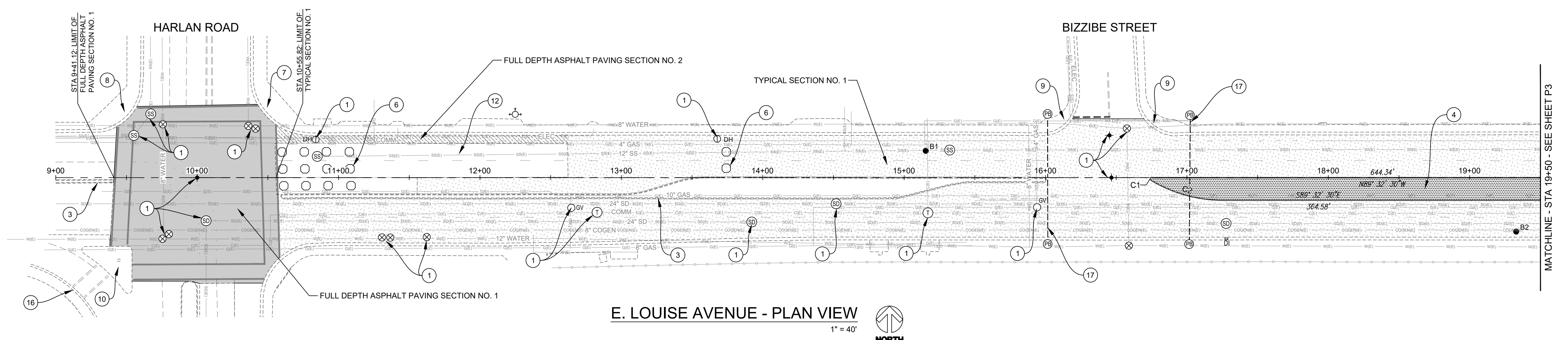
**CITY OF LATHROP**  
 LOUISE AVENUE PAVEMENT REHABILITATION PROJECT  
 TITLE SHEET



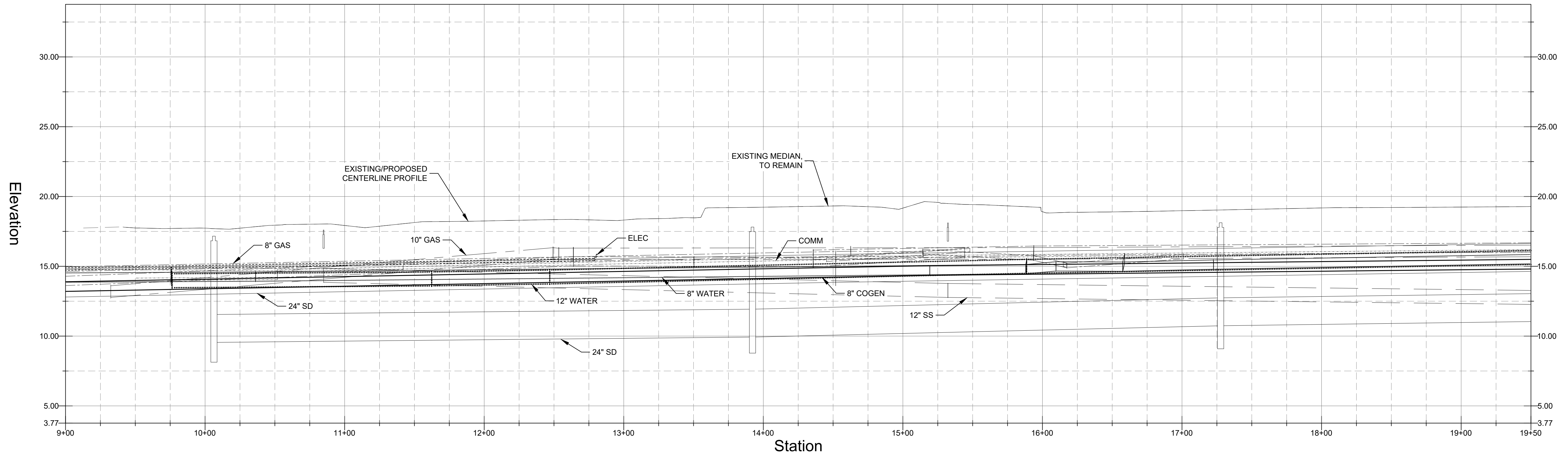
DRAWN BY: **JRE**  
 PROJECT NUMBER: **200074**  
 SCALE: **AS SHOWN**  
 VERIFY SCALE  
 BAR REPRESENTS  
 1" ON ORIGINAL  
 DATE: **JULY 2020**  
 SHEET NUMBER:

**P1**





E. LOUISE AVENUE - PLAN VIEW  
1" = 40'



E. LOUISE AVENUE - PROFILE VIEW  
HORIZONTAL: 1" = 40'  
VERTICAL: 1" = 4'

**CONSTRUCTION NOTES:**

- 1 LOWER UTILITY/MONUMENT COVER PRIOR TO PULVERIZATION & ADJUST TO FINISH SURFACE ONCE PAVING IS COMPLETE.
- 2 NOT USED.
- 3 EXISTING MEDIAN CURB TO REMAIN, PROTECT IN PLACE DURING COURSE OF CONSTRUCTION.
- 4 COLD PLANE 2-1/2" EXISTING ASPHALT PAVEMENT & PLACE 2-1/2" RHMA.
- 5 NOT USED.
- 6 REMOVE EX. TRAFFIC LOOPS & SET SIGNAL TO RECALL. AFTER PAVING WORK, INSTALL PERMANENT TRAFFIC LOOPS.
- 7 REMOVE & REPLACE CASE "A" CURB RAMP PER CITY OF LATHROP STANDARD DRAWING R-10.
- 8 REMOVE & REPLACE CASE "B" CURB RAMP PER CITY OF LATHROP STANDARD DRAWING R-10.
- 9 REMOVE & REPLACE CASE "C" CURB RAMP PER CITY OF LATHROP STANDARD DRAWING R-10.
- 10 CONSTRUCT MEDIAN ISLAND TYPE C PASSAGEWAY PER CALTRANS STANDARD PLAN A88B. SEE ENLARGEMENT "A" ON SHEET P7 FOR MORE INFORMATION.
- 12 EXISTING CONCRETE PAVEMENT TO REMAIN; PROTECT IN PLACE DURING COURSE OF CONSTRUCTION.
- 16 REMOVE EXISTING RAMP & CONSTRUCT CASE "C" CURB RAMP PER CITY OF LATHROP STANDARD DRAWING R-10. SEE ENLARGEMENT "A" ON SHEET P7 FOR MORE INFORMATION.
- 17 INSTALL 4" SCH. 40 CONDUITS 30" MIN. BELOW FINISHED SURFACE WITH G5 PULL BOX ON EACH END.

**LEGEND**

- |  |  |  |                                 |
|--|--|--|---------------------------------|
|  | TYPICAL SECTION NO. 1: PULVERIZE 18" EX. AC & AB, COLD PLANE 9", CEMENT TREAT 11", PLACE 2-1/2" RHMA ON 6-1/2" HMA |  | BORING LOCATION                 |
|  | FULL DEPTH ASPHALT PAVING SECTION NO. 1: PLACE 14-1/2" HMA   |  | REMOVE & REPLACE LOOP DETECTOR  |
|  | FULL DEPTH ASPHALT PAVING SECTION NO. 2: PLACE 2-1/2" RHMA ON 12" HMA  |  | DRAINAGE INLET (EX.)            |
|  | COLD PLANE 2-1/2" & PLACE 2-1/2" RHMA  |  | LOOP DETECTOR HANDHOLE (EX.)    |
|  | INSTALL 4" SCH. 40 CONDUIT   |  | GAS VALVE (EX.)                 |
|  | FENCE (EX.)  |  | FIRE HYDRANT (EX.)              |
|  | COMMUNICATION LINE (EX.)   |  | G5 PULL BOX (NEW)               |
|  | ELECTRICAL LINE (EX.)  |  | SURVEY MONUMENT (EX.)           |
|  | GAS LINE (EX.)   |  | TELECOMMUNICATION MANHOLE (EX.) |
|  | STORM DRAIN LINE (EX.)   |  | SANITARY SEWER MANHOLE (EX.)    |
|  | SANITARY SEWER LINE (EX.)  |  | STORM DRAIN MANHOLE (EX.)       |
|  | WATER LINE (EX.)   |  | WATER VALVE (EX.)               |

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	2.60	1.00	149.1582
C2	53.83	100.00	30.8418

BORING LOG			
NO.	AC	AB	R-VALUE
B1	8"	7"	-
B2	7-1/2"	11"	-

\*CORING DATA IS FOR INFORMATION ONLY. EXISTING SECTION MAY VARY FROM SECTION(S) FOUND AT CORING LOCATION(S). FABRIC MAY BE PRESENT IN SECTIONS EVEN IF NOT FOUND AT CORING LOCATION(S).

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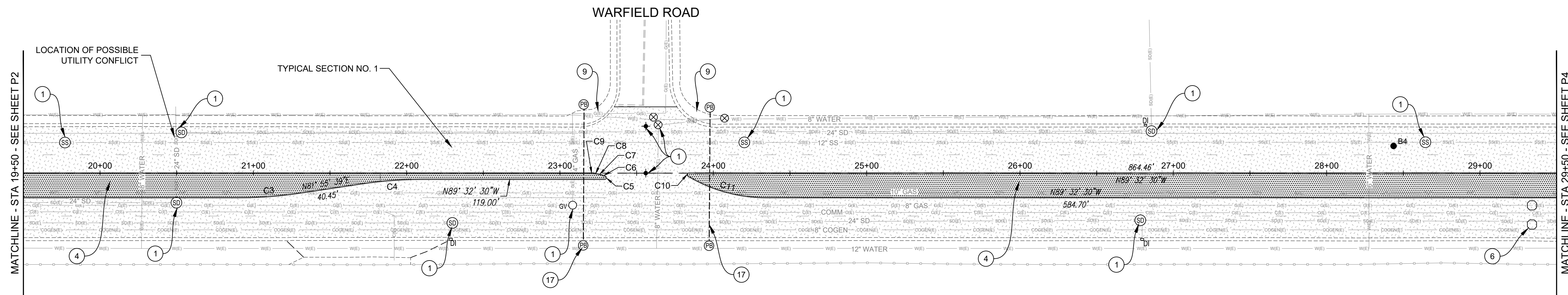
**CITY OF LATHROP**  
**LOUISE AVENUE PAVEMENT REHABILITATION PROJECT**  
**STREET IMPROVEMENT PLANS - BASE BID**  
STA 9+00 TO STA 19+50



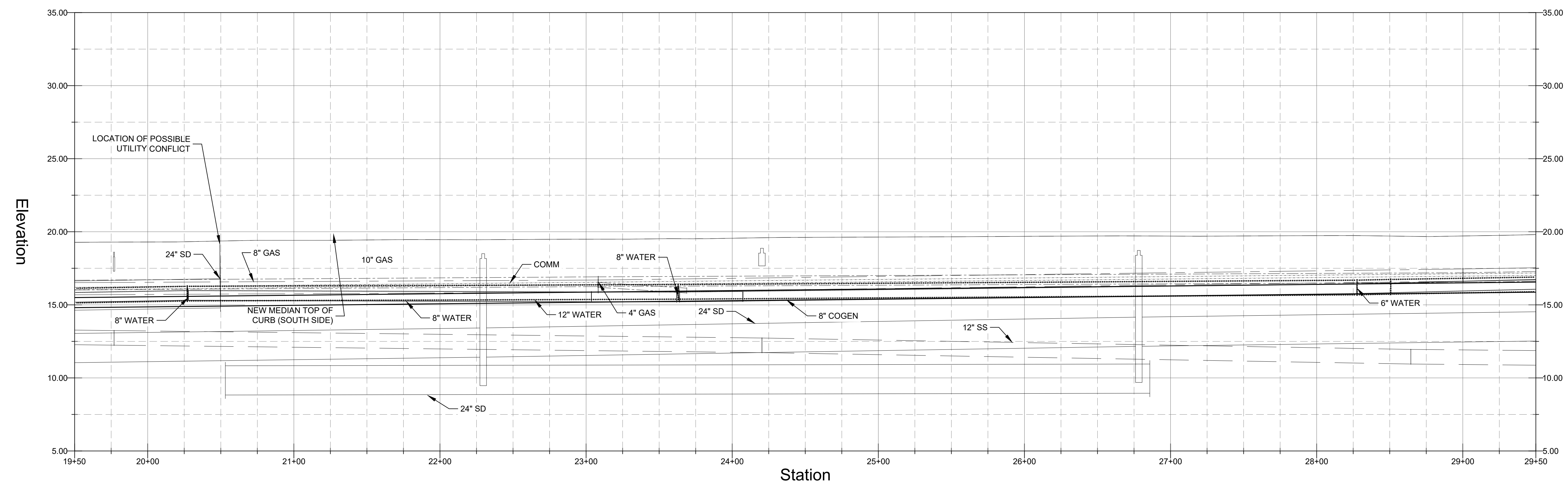
DRAWN BY: JRE  
PROJECT NUMBER: 200074  
SCALE: 1" = 40'  
VERIFY SCALE  
BAR REPRESENTS 1" ON ORIGINAL  
DATE: JULY 2020  
SHEET NUMBER:

Path: Z:\SHAREDR\DRIVE\ACTIVE PROJECTS\LATHROP, CITY OF\2007\TASK 01\DRAWING\20074\_01\_SITE\01\_LATHROP.DWG, Pkg Date: 7/6/2020 10:42 AM





E. LOUISE AVENUE - PLAN VIEW  
1" = 40'



E. LOUISE AVENUE - PROFILE VIEW  
HORIZONTAL: 1" = 40'  
VERTICAL: 1" = 4'

**CONSTRUCTION NOTES:**

- 1 LOWER UTILITY/MONUMENT COVER PRIOR TO PULVERIZATION & ADJUST TO FINISH SURFACE ONCE PAVING IS COMPLETE.
- 2 NOT USED.
- 4 COLD PLANE 2-1/2" EXISTING ASPHALT PAVEMENT & PLACE 2-1/2" RHMA.
- 5 NOT USED.
- 9 REMOVE & REPLACE CASE "C" CURB RAMP PER CITY OF LATHROP STANDARD DRAWING R-10.
- 11 NOT USED.
- 17 INSTALL 4" SCH. 40 CONDUITS 30" MIN. BELOW FINISHED SURFACE WITH G5 PULL BOX ON EACH END.

**LEGEND**

- TYPICAL SECTION NO. 1: PULVERIZE 18" EX. AC & AB, COLD PLANE 9" CEMENT TREAT 11", PLACE 9" HMA
- COLD PLANE 2-1/2" & PLACE 2-1/2" RHMA
- INSTALL 4" SCH. 40 CONDUIT
- FENCE (EX.)
- COMMUNICATION LINE (EX.)
- GAS LINE (EX.)
- STORM DRAIN LINE (EX.)
- SANITARY SEWER LINE (EX.)
- WATER LINE (EX.)
- BORING LOCATION
- GAS VALVE
- FIRE HYDRANT (EX.)
- G5 PULL BOX (NEW)
- SURVEY MONUMENT
- TELECOMMUNICATION MANHOLE
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- WATER VALVE

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C3	40.15	268.17	8.5783
C4	40.15	268.17	8.5783
C5	2.77	1.00	158.4348
C6	2.75	26.42	5.9572
C7	2.67	30.58	5.0009
C8	2.62	26.65	5.6327
C9	2.59	25.87	5.7469
C10	2.60	1.00	149.1582
C11	53.83	100.00	30.8418

**BORING LOG**

NO.	AC	AB	R-VALUE
B4	6-1/2"	8"	68

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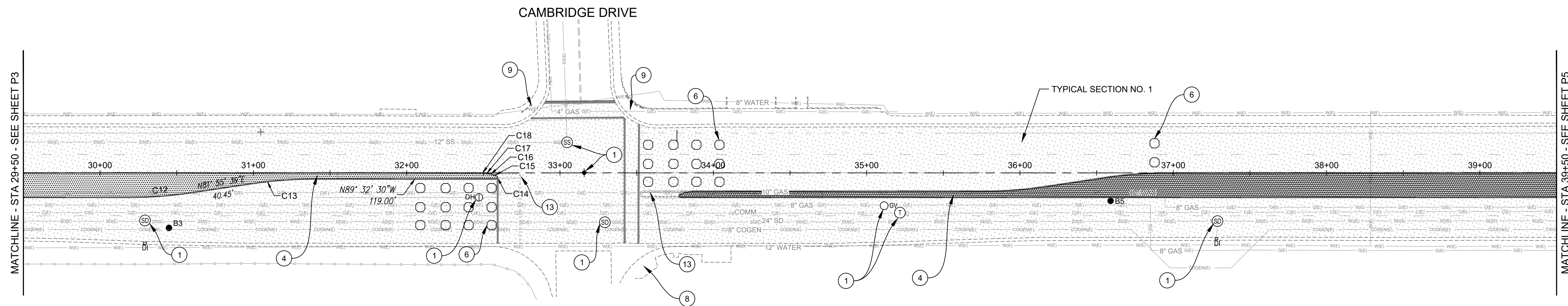
**CITY OF LATHROP**  
LOUISE AVENUE PAVEMENT REHABILITATION PROJECT  
STREET IMPROVEMENT PLANS - BASE BID  
STA 19+50 TO STA 29+50



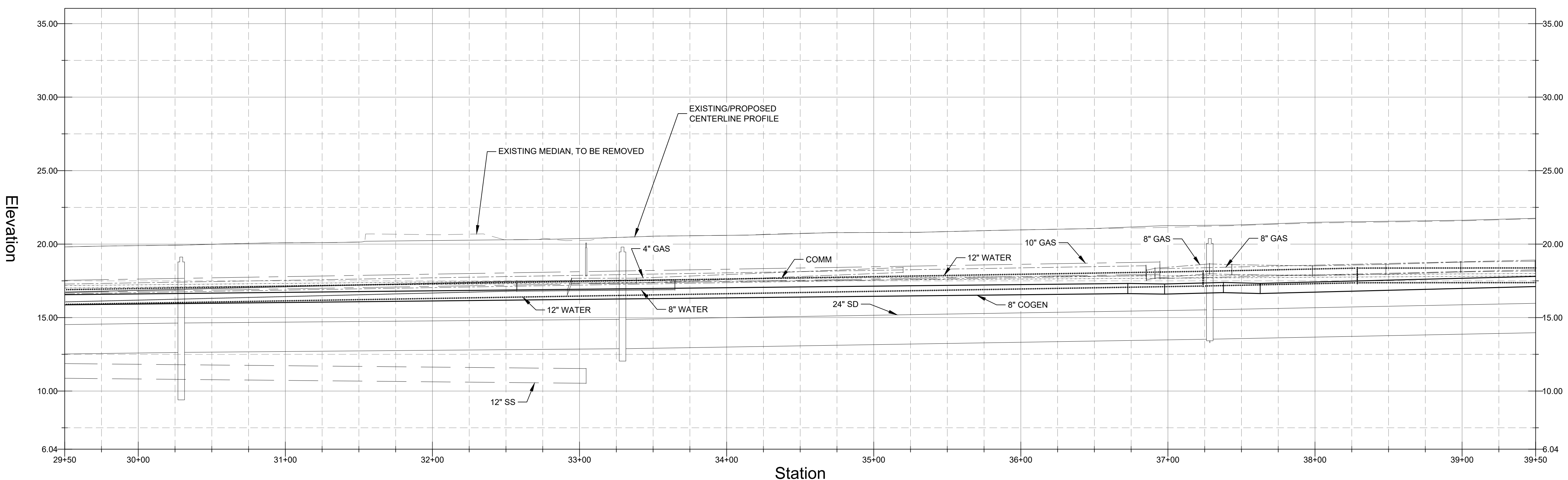
DRAWN BY: JRE  
PROJECT NUMBER: 200074  
SCALE: 1" = 40'  
VERIFY SCALE  
BAR REPRESENTS 1" ON ORIGINAL  
DATE: JULY 2020  
SHEET NUMBER:

PIN: Z:\SHARED\DRIVE\ACTIVE PROJECTS\LATHROP, CITY OF\2020\TASK 01\DRAWING\200074\_01\_SITE-01\_LATHROP.DWG, Plot Date: 7/6/2020 10:42 AM





E. LOUISE AVENUE - PLAN VIEW  
1" = 40'



E. LOUISE AVENUE - PROFILE VIEW  
HORIZONTAL: 1" = 40'  
VERTICAL: 1" = 4'

**CONSTRUCTION NOTES:**

- 1 LOWER UTILITY/MONUMENT COVER PRIOR TO PULVERIZATION & ADJUST TO FINISH SURFACE ONCE PAVING IS COMPLETE.
- 2 NOT USED.
- 4 COLD PLANE 2-1/2" EXISTING ASPHALT PAVEMENT & PLACE 2-1/2" RHMA.
- 5 NOT USED.
- 8 REMOVE & REPLACE CASE "B" CURB RAMP PER CITY OF LATHROP STANDARD DRAWING R-10.
- 9 REMOVE & REPLACE CASE "C" CURB RAMP PER CITY OF LATHROP STANDARD DRAWING R-10.
- 11 NOT USED.
- 13 REMOVE EXISTING MEDIAN CURB & BACKFILL VOID W/ PULVERIZED MATERIAL.

**LEGEND**

- TYPICAL SECTION NO. 1: PULVERIZE 18" EX. AC & AB, COLD PLANE 9", CEMENT TREAT 11", PLACE 9" HMA
- COLD PLANE 2-1/2" & PLACE 2-1/2" RHMA
- FENCE (EX.)
- COMMUNICATION LINE (EX.)
- GAS LINE (EX.)
- STORM DRAIN LINE (EX.)
- SANITARY SEWER LINE (EX.)
- WATER LINE (EX.)
- BORING LOCATION
- DRAINAGE INLET (EX.)
- GAS VALVE
- FIRE HYDRANT (EX.)
- SURVEY MONUMENT
- TELECOMMUNICATION MANHOLE
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- WATER VALVE

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C12	40.15	268.17	8.5783
C13	40.15	268.17	8.5783
C14	2.77	1.00	158.4348
C15	2.75	26.42	5.9572
C16	2.67	30.58	5.0009
C17	2.62	26.65	5.6327
C18	2.59	25.87	5.7469

**BORING LOG**

NO.	AC	AB	R-VALUE
B3	7-1/2"	11"	-
B5	7"	7"	-

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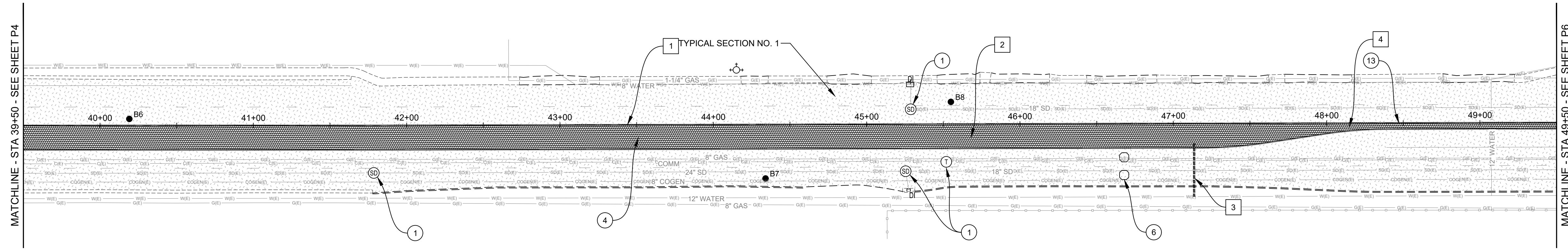


**CITY OF LATHROP**  
LOUISE AVENUE PAVEMENT REHABILITATION PROJECT  
STREET IMPROVEMENT PLANS - BASE BID  
STA 29+50 TO STA 39+50

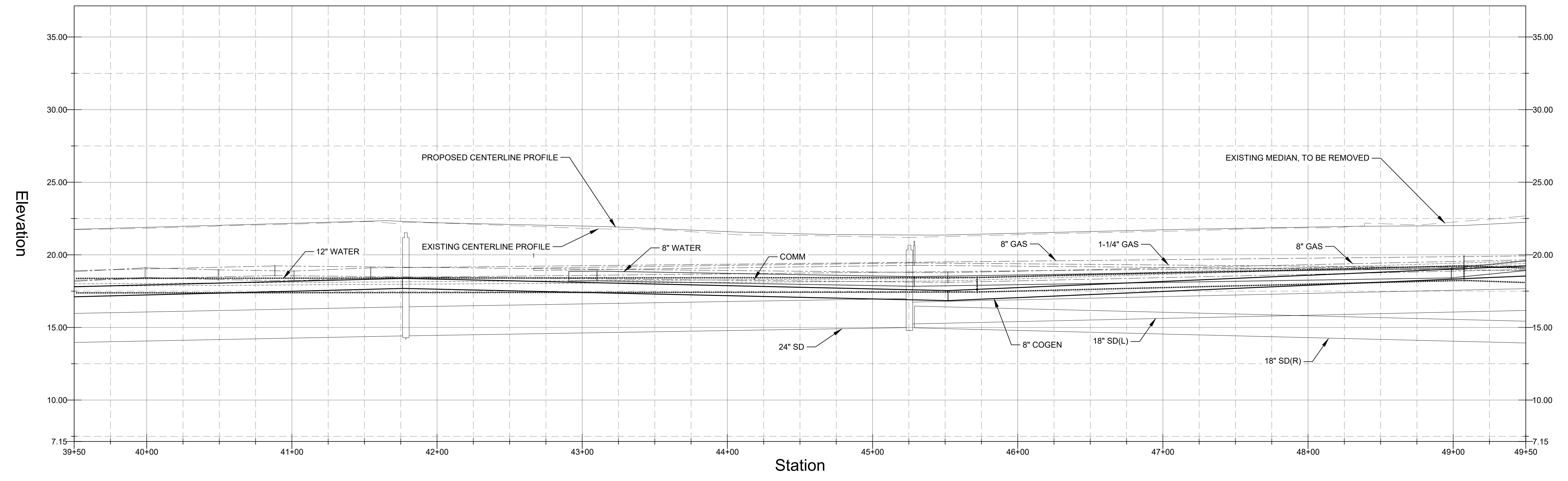


DRAWN BY: JRE  
PROJECT NUMBER: 200074  
SCALE: 1" = 40'  
VERIFY SCALE  
BAR REPRESENTS 1" ON ORIGINAL  
DATE: JULY 2020  
SHEET NUMBER:





**E. LOUISE AVENUE - PLAN VIEW**  
 1" = 40'



**E. LOUISE AVENUE - PROFILE VIEW**  
 HORIZONTAL: 1" = 40'  
 VERTICAL: 1" = 4'

**CONSTRUCTION NOTES:**

- ① LOWER UTILITY/MONUMENT COVER PRIOR TO PULVERIZATION & ADJUST TO FINISH SURFACE ONCE PAVING IS COMPLETE.
- ⑥ REMOVE EX. TRAFFIC LOOPS & SET SIGNAL TO RECALL. AFTER PAVING WORK, INSTALL PERMANENT TRAFFIC LOOPS.
- ⑬ REMOVE EXISTING MEDIAN CURB & BACKFILL VOID W/ PULVERIZED MATERIAL.

**LEGEND**

- TYPICAL SECTION NO. 1: PULVERIZE 18" EX. AC & AB, COLD PLANE 9", CEMENT TREAT 11", PLACE 9" HMA
- COLD PLANE 2-1/2" & PLACE 2-1/2" RHMA
- FENCE (EX.)
- COMMUNICATION LINE (EX.)
- GAS LINE (EX.)
- STORM DRAIN LINE (EX.)
- WATER LINE (EX.)
- BORING LOCATION
- REMOVE & REPLACE LOOP DETECTOR
- DRAINAGE INLET (EX.)
- TELECOMMUNICATION MANHOLE (EX.)
- STORM DRAIN MANHOLE (EX.)

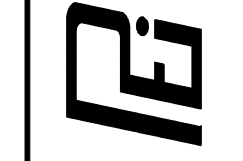
**BORING LOG**

NO.	AC	AB	R-VALUE
B6	9-1/2"	4"	-
B1	5-1/2"	-	78
B2	6-1/2"	3-1/2"	-

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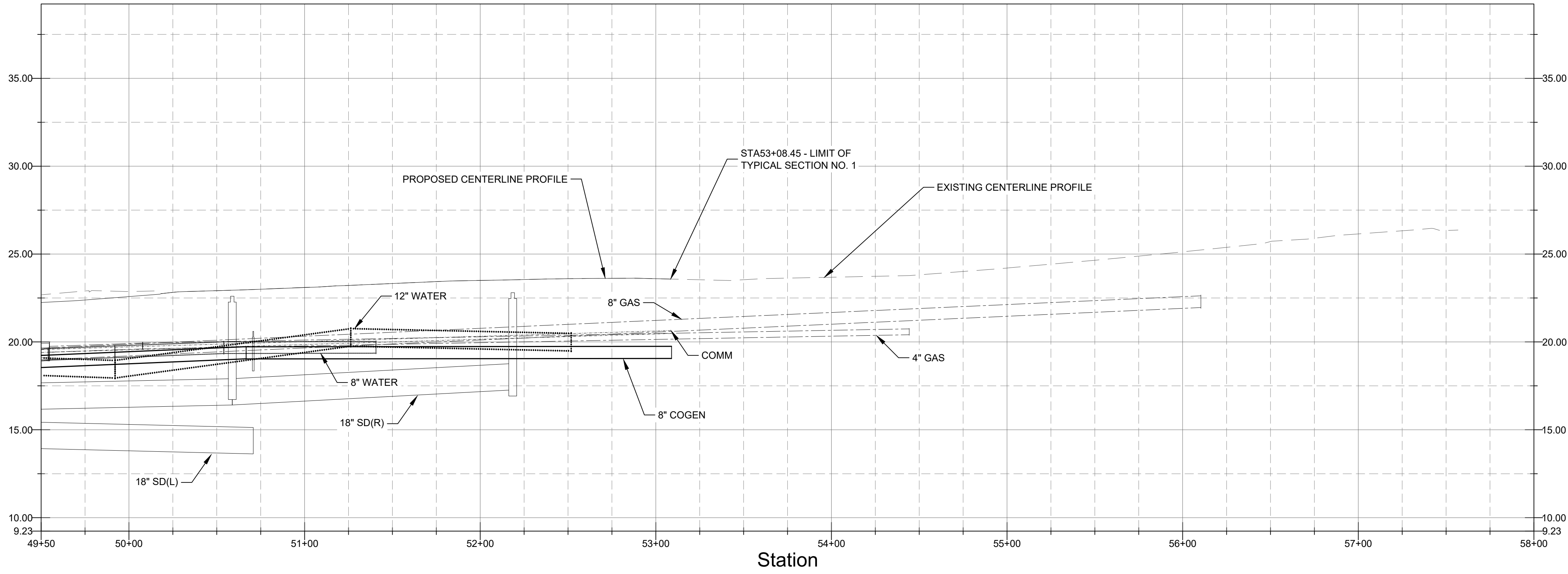
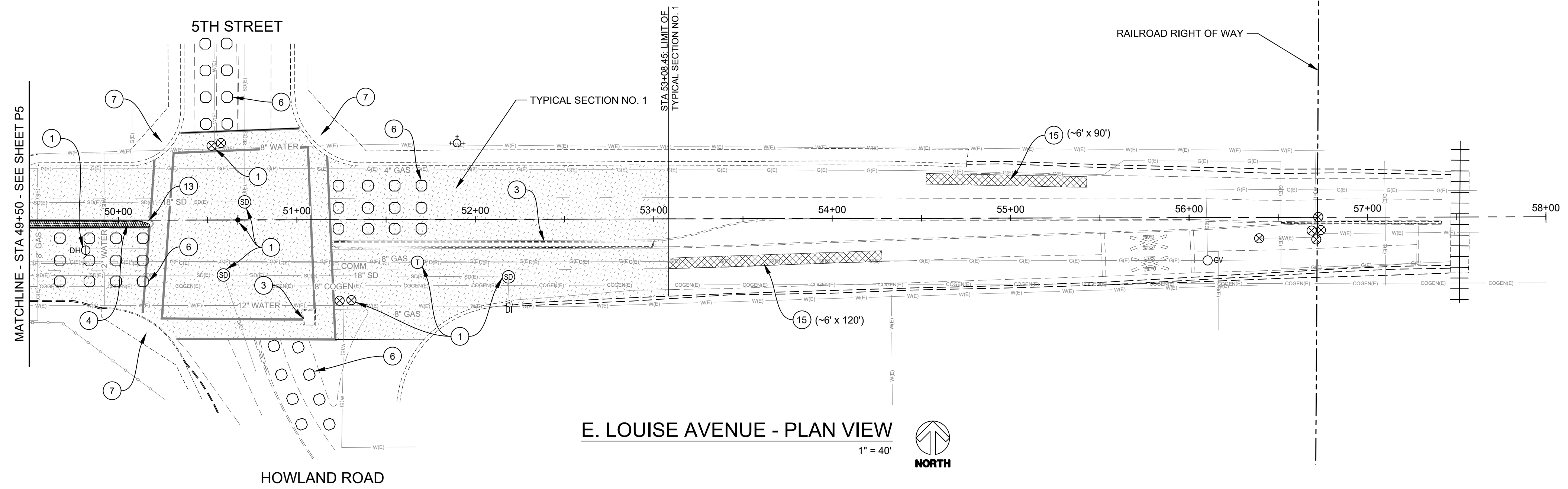


**CITY OF LATHROP**  
**LOUISE AVENUE PAVEMENT REHABILITATION PROJECT**  
**STREET IMPROVEMENT PLANS - BASE BID**  
 STA 39+50 TO STA 49+50



DRAWN BY: JRE  
 PROJECT NUMBER: 200074  
 SCALE: 1" = 40'  
 VERIFY SCALE  
 BAR REPRESENTS 1" ON ORIGINAL  
 DATE: JULY 2020  
 SHEET NUMBER:





**CONSTRUCTION NOTES:**

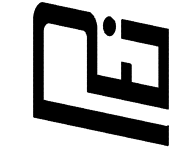
- ① LOWER UTILITY/MONUMENT COVER PRIOR TO PULVERIZATION & ADJUST TO FINISH SURFACE ONCE PAVING IS COMPLETE.
- ③ EXISTING MEDIAN CURB TO REMAIN, PROTECT IN PLACE DURING COURSE OF CONSTRUCTION.
- ⑥ REMOVE EX. TRAFFIC LOOPS & SET SIGNAL TO RECALL. AFTER PAVING WORK, INSTALL PERMANENT TRAFFIC LOOPS.
- ⑦ REMOVE & REPLACE CASE "A" CURB RAMP PER CITY OF LATHROP STANDARD DRAWING R-10.
- ⑬ REMOVE EXISTING MEDIAN CURB & BACKFILL VOID W/ PULVERIZED MATERIAL.
- ⑮ REMOVE & REPLACE 8" HMA. SEE PLANS FOR DIMENSIONS.

**LEGEND**

	TYPICAL SECTION NO. 1: PULVERIZE 18" EX. AC & AB, COLD PLANE 9", CEMENT TREAT 11", PLACE 9" HMA		WATER LINE (EX.)
	REMOVE & REPLACE 8" HMA		RIGHT OF WAY
	FENCE (EX.)		FIRE HYDRANT (EX.)
	GAS LINE (EX.)		SURVEY MONUMENT
	GAS LINE (EX.)		TELECOMMUNICATION MANHOLE
	STORM DRAIN LINE (EX.)		STORM DRAIN MANHOLE
	SANITARY SEWER LINE (EX.)		WATER VALVE

P:\IN\Z.SHAREDIR\DRIVE\ACTIVE PROJECTS\LATHROP, CITY OF\2007\TASK 01\DRAWING\200704\_01\_SITE-01\_LATHROP.DWG Plot Date: 7/6/2020 10:53 AM

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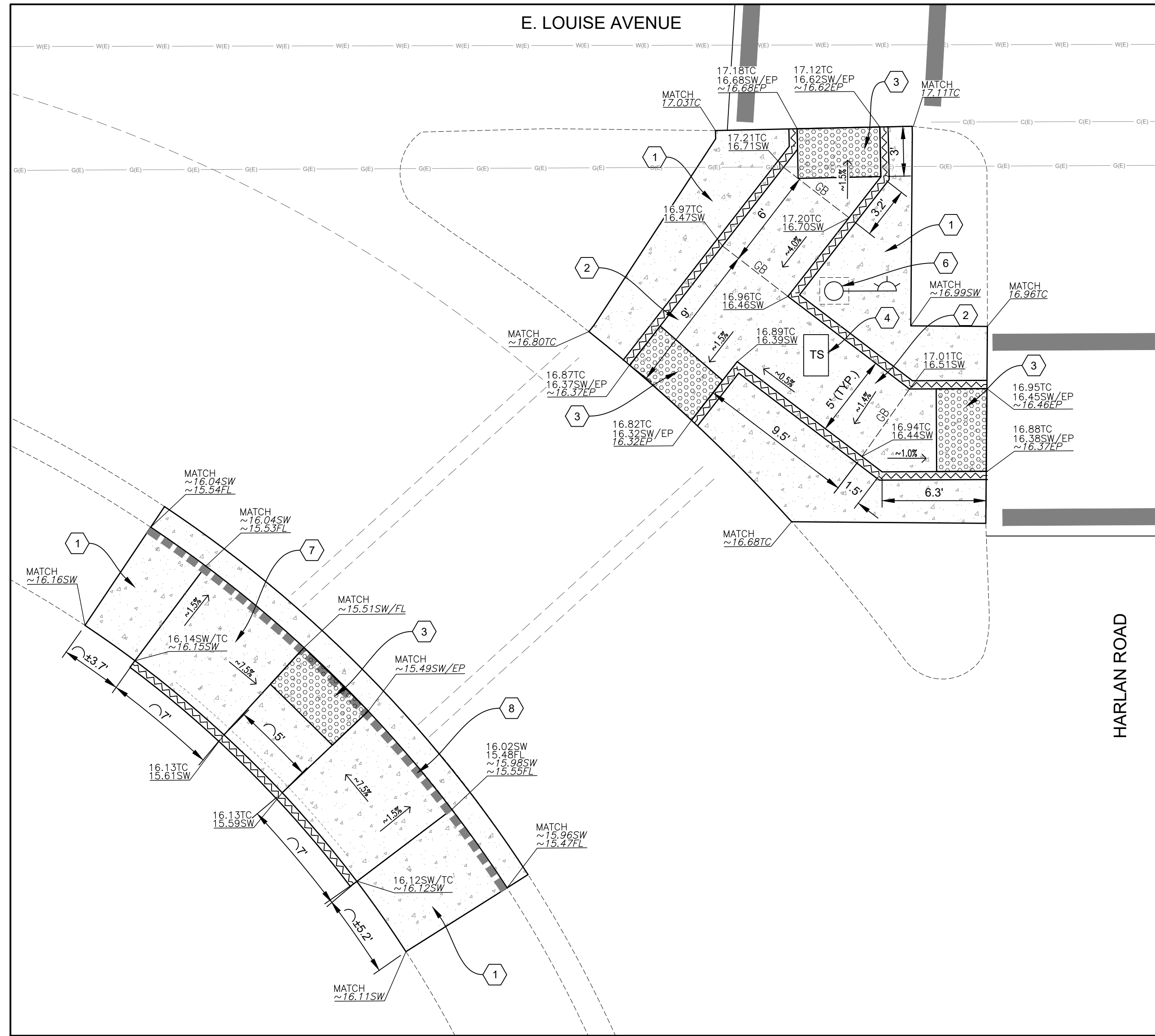
**CITY OF LATHROP**  
**LOUISE AVENUE PAVEMENT REHABILITATION PROJECT**  
**STREET IMPROVEMENT PLANS - BASE BID**  
STA 49+50 TO STA 58+00



DRAWN BY: **JRE**  
PROJECT NUMBER: **200074**  
SCALE: **1" = 40'**  
VERIFY SCALE  
BAR REPRESENTS  
1" ON ORIGINAL  
DATE: **JULY 2020**  
SHEET NUMBER:



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**ENLARGEMENT "A"**  
1"=5'  
NORTH

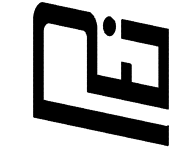
**ENLARGEMENT NOTES:**

- 1 SAWCUT, REMOVE & REPLACE PCC SIDEWALK PER CITY OF LATHROP STANDARD DRAWING R-7A; REMOVE SIDEWALK TO NEAREST JOINT.
- 2 SAWCUT, REMOVE EXISTING MEDIAN ISLAND CONCRETE SURFACE & CONSTRUCT MEDIAN ISLAND TYPE C PASSAGEWAY PER CALTRANS STANDARD PLAN A88B.
- 3 INSTALL CAST IN PLACE DETECTABLE WARNING SURFACE.
- 4 RESET TRAFFIC SIGNAL BOX FLUSH IN NEW SIDEWALK SURFACE.
- 5 NOT USED.
- 6 PROTECT IN PLACE EXISTING TRAFFIC SIGNAL POLE & BASE. RECONFIGURE EXISTING PUSH BUTTON TO FACE ADJACENT RECESSED SIDEWALK.
- 7 SAWCUT, REMOVE SIDEWALK & CONSTRUCT CASE "C" CURB RAMP PER CITY OF LATHROP STANDARD DRAWING R-10.
- 8 SAWCUT, REMOVE & REPLACE PCC CURB & GUTTER PER CITY OF LATHROP STANDARD DRAWING R-7A; REMOVE CURB & GUTTER TO NEAREST JOINT.

**LEGEND**

- REMOVE & REPLACE PCC SIDEWALK
- INSTALL DETECTABLE WARNING SURFACE
- REMOVE & REPLACE PCC CURB & GUTTER
- CONSTRUCT PCC RETAINING CURB
- TRAFFIC SIGNAL POLE (EX.)
- TRAFFIC SIGNAL BOX (EX.)
- TRAFFIC SIGNAL CABINET (EX.)
- GRADE BREAK
- EDGE OF PAVEMENT
- SIDEWALK
- TOP OF CURB
- DESIGN ELEVATION
- EXIST. ELEVATION

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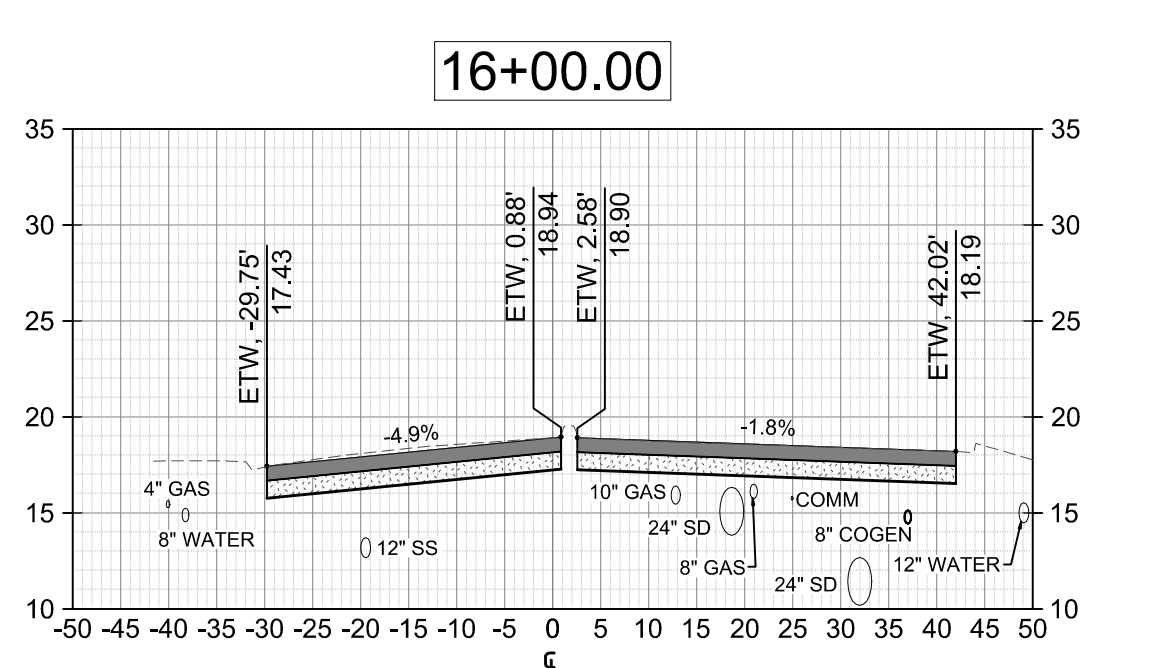
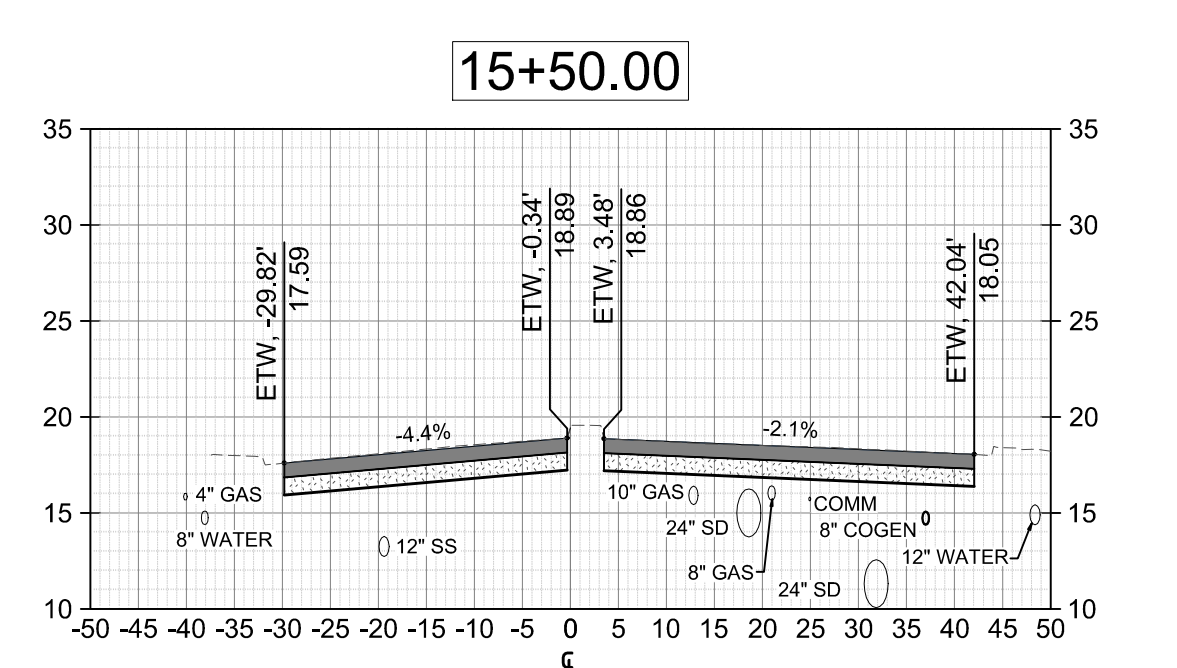
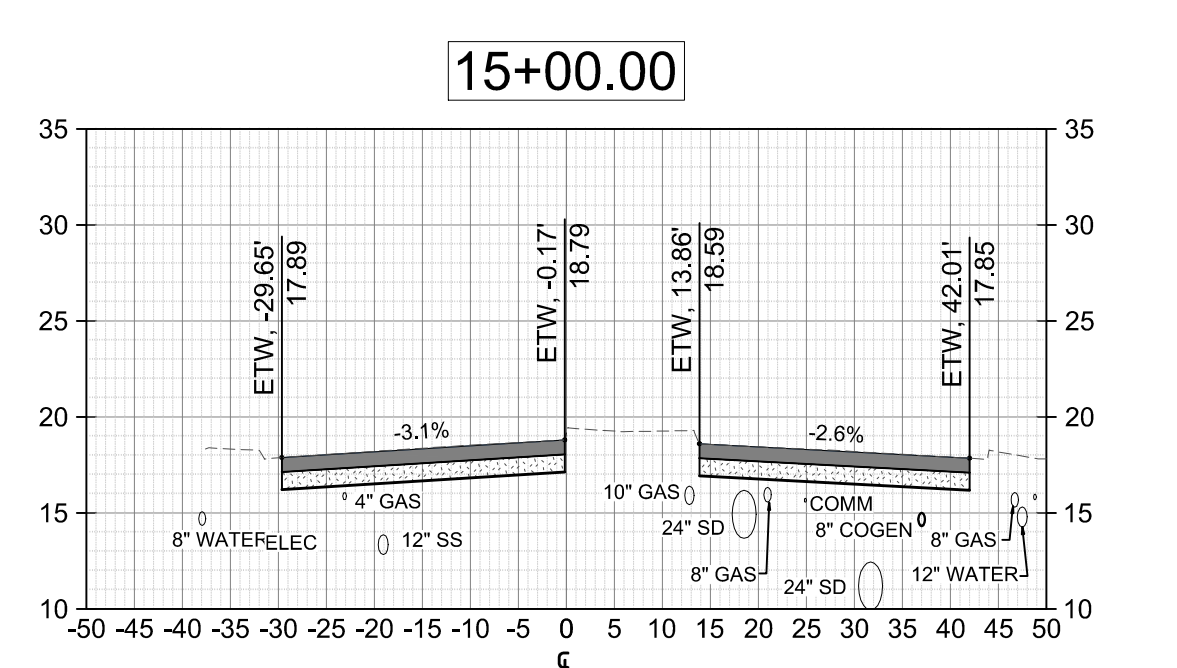
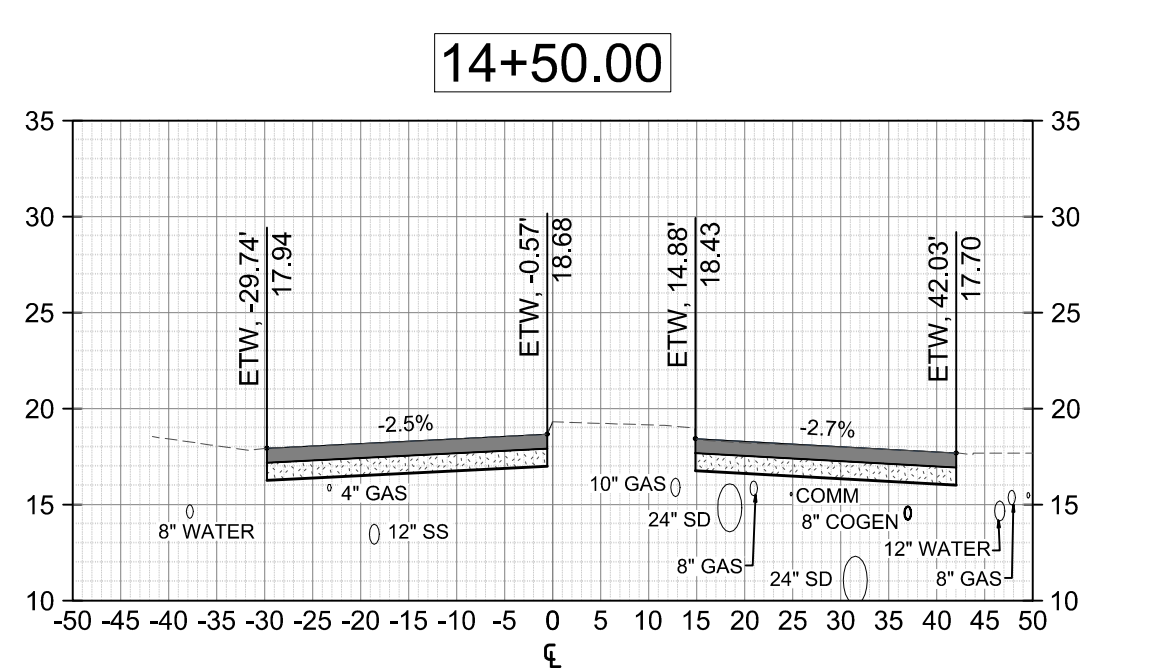
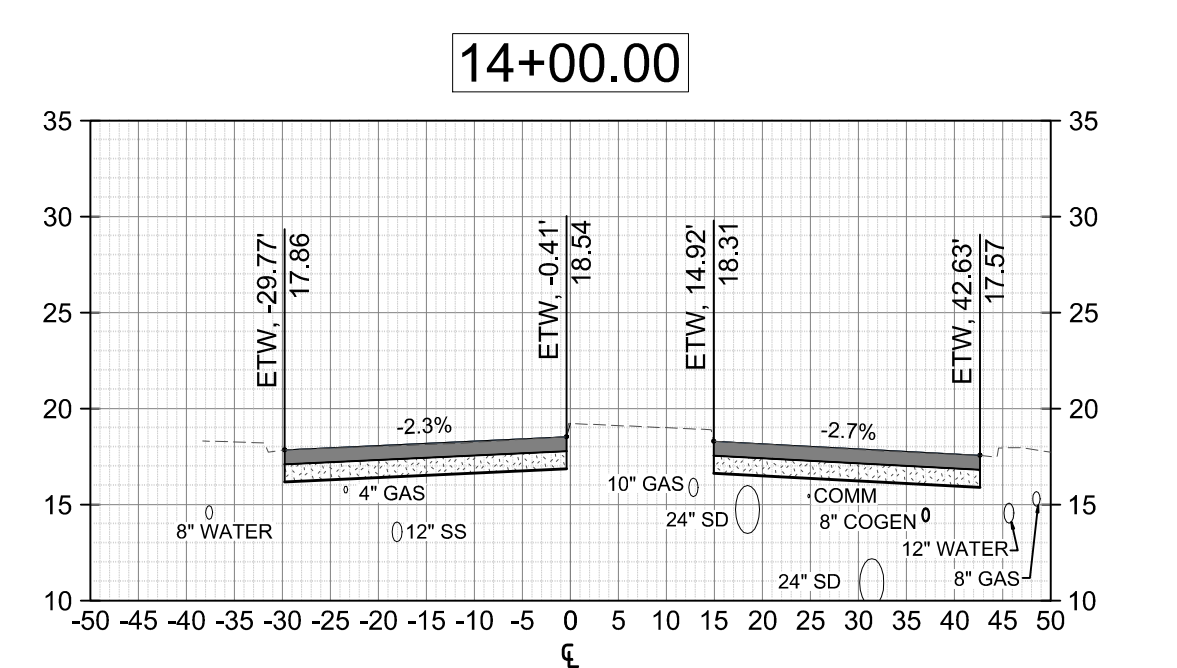
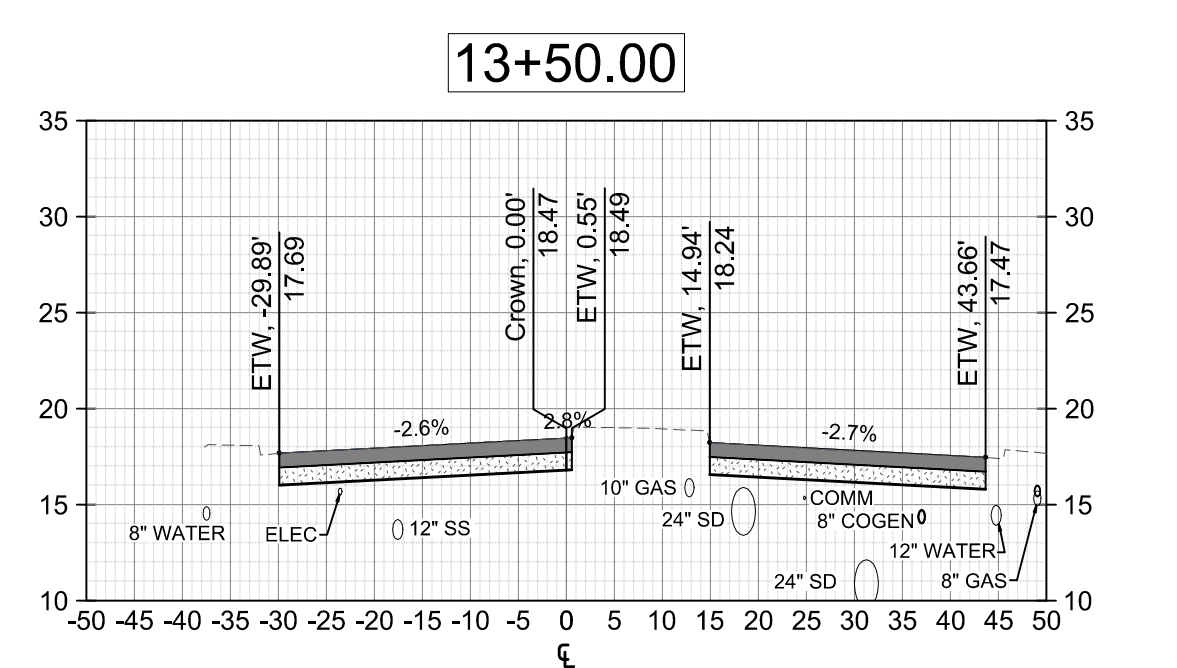
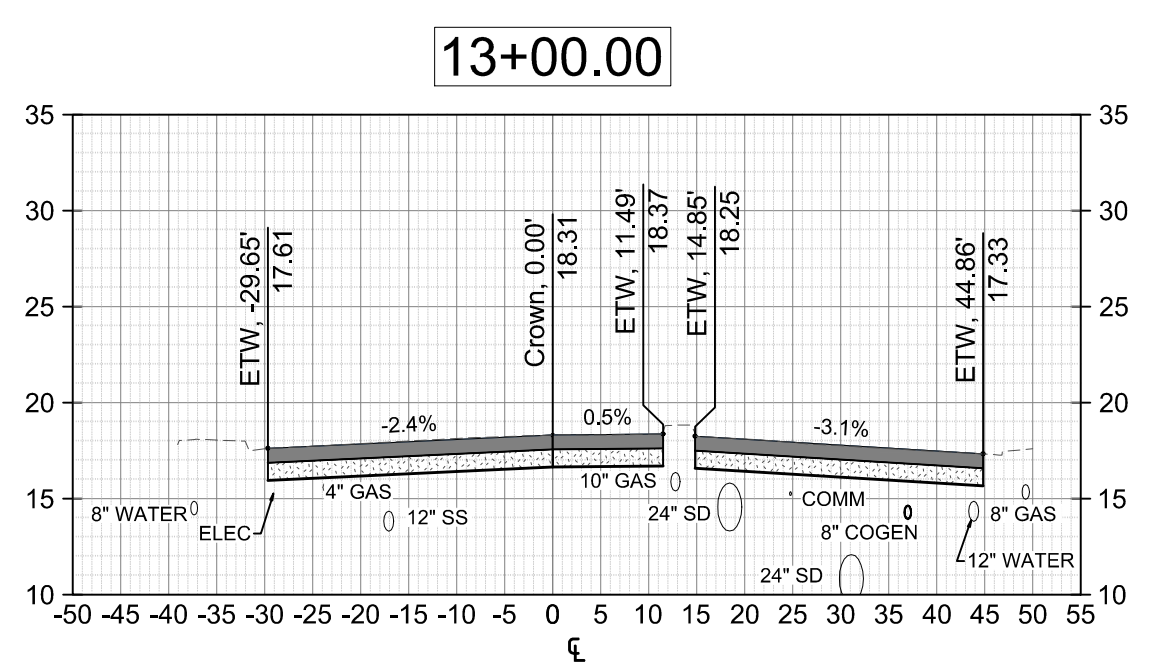
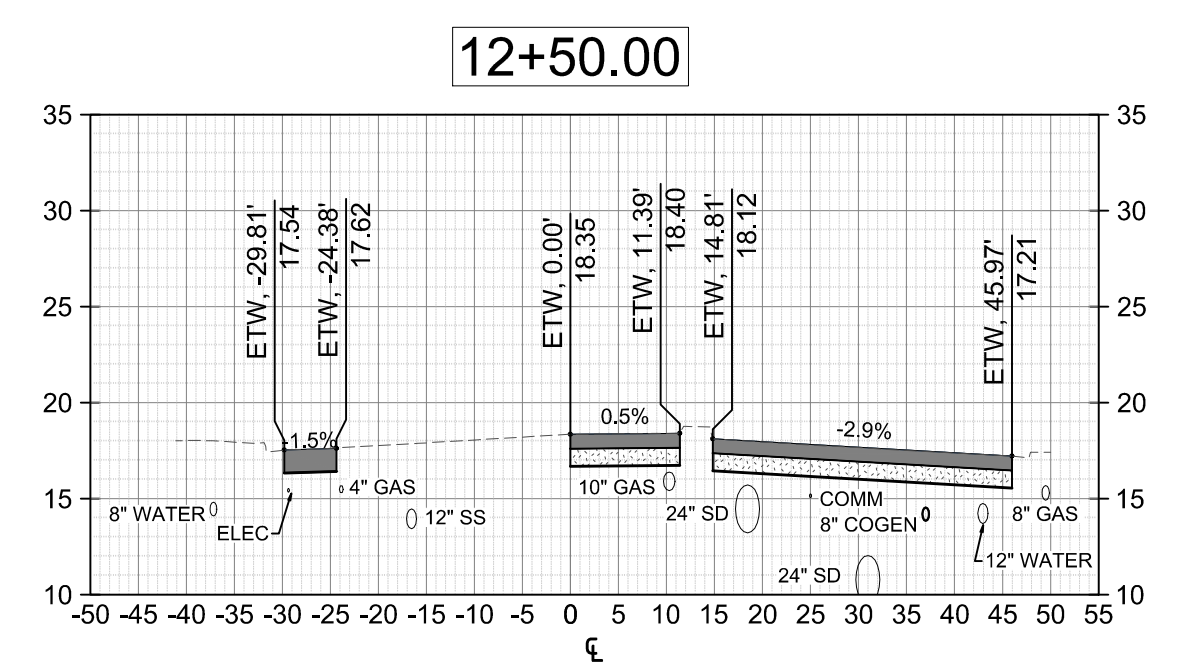
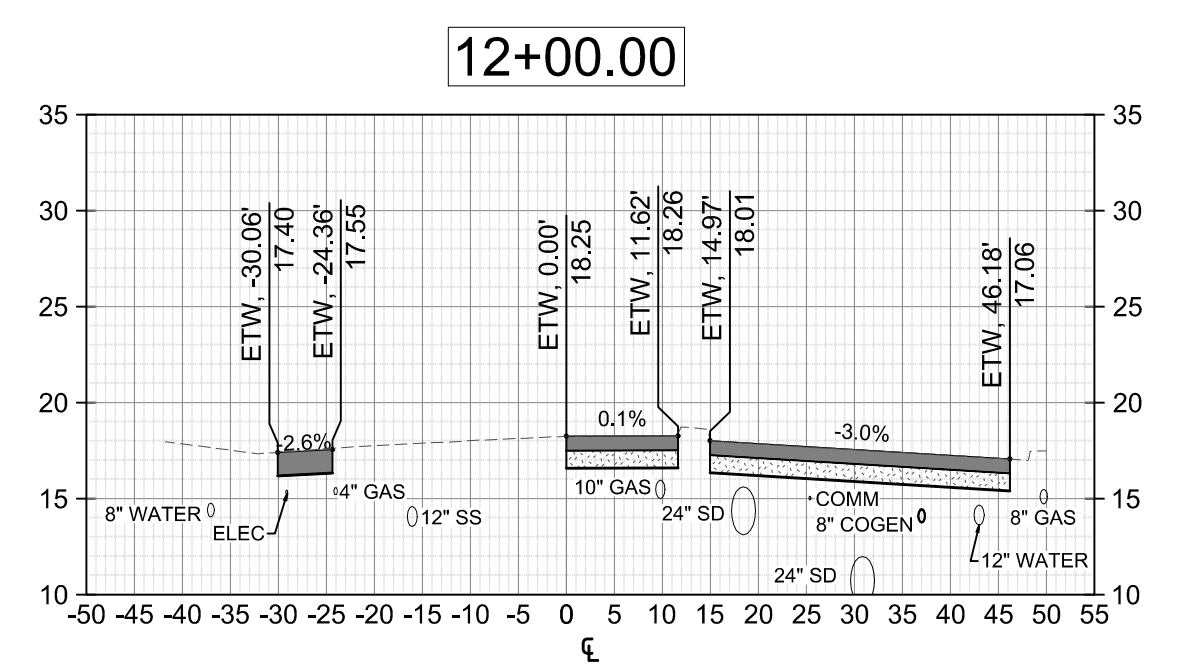
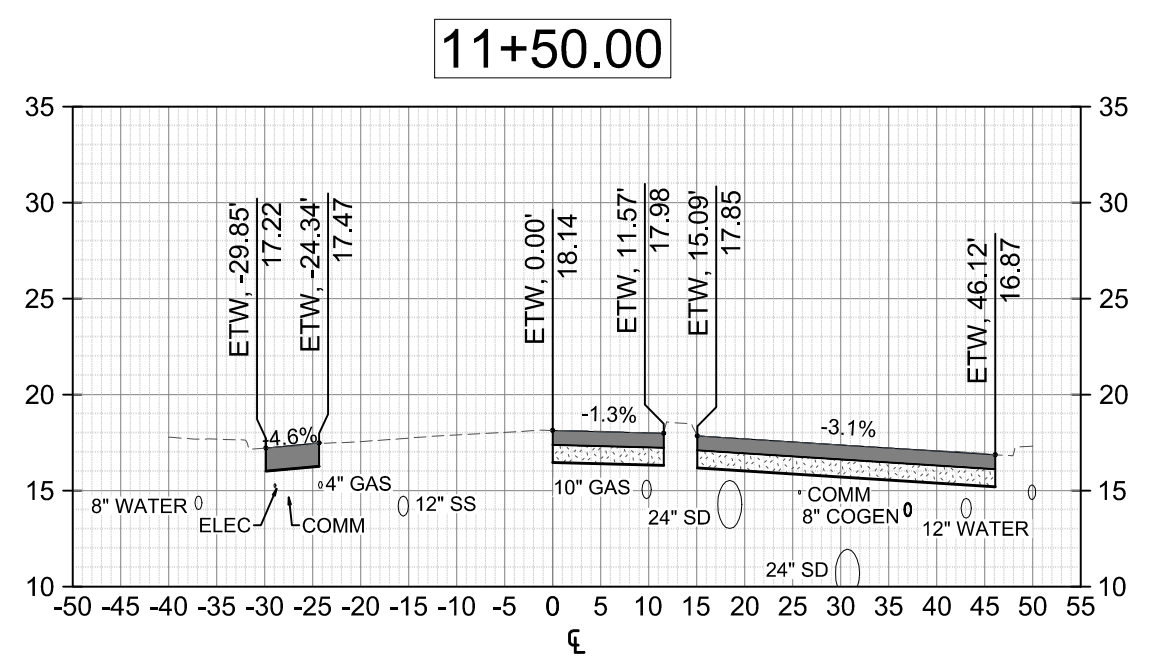
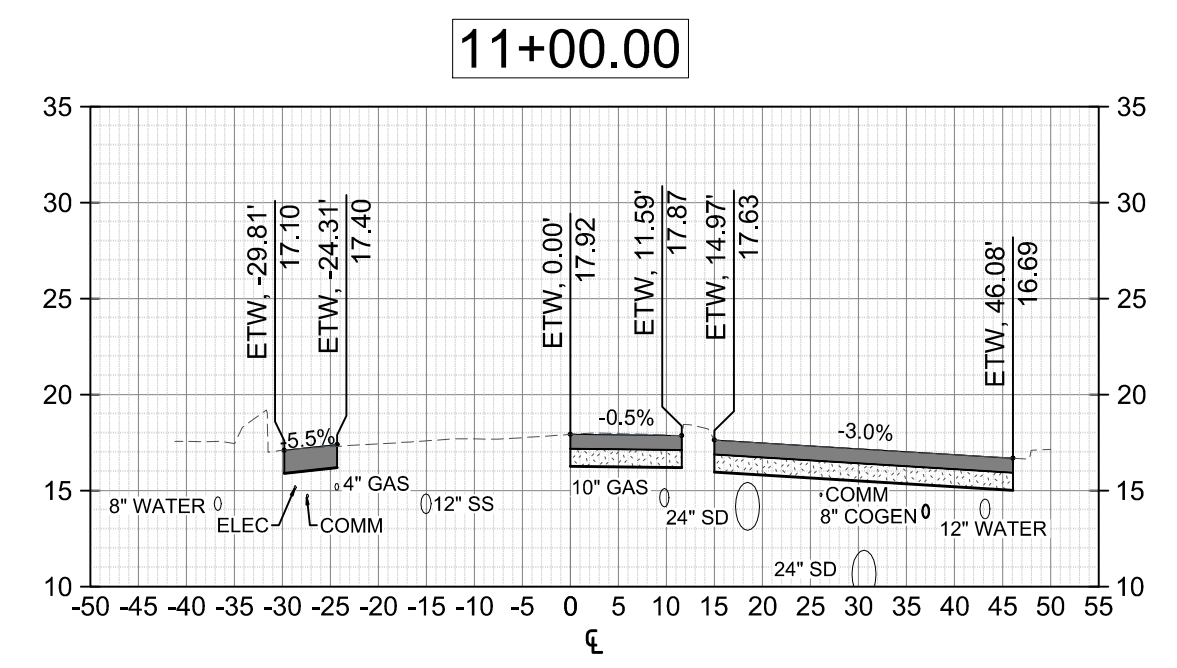
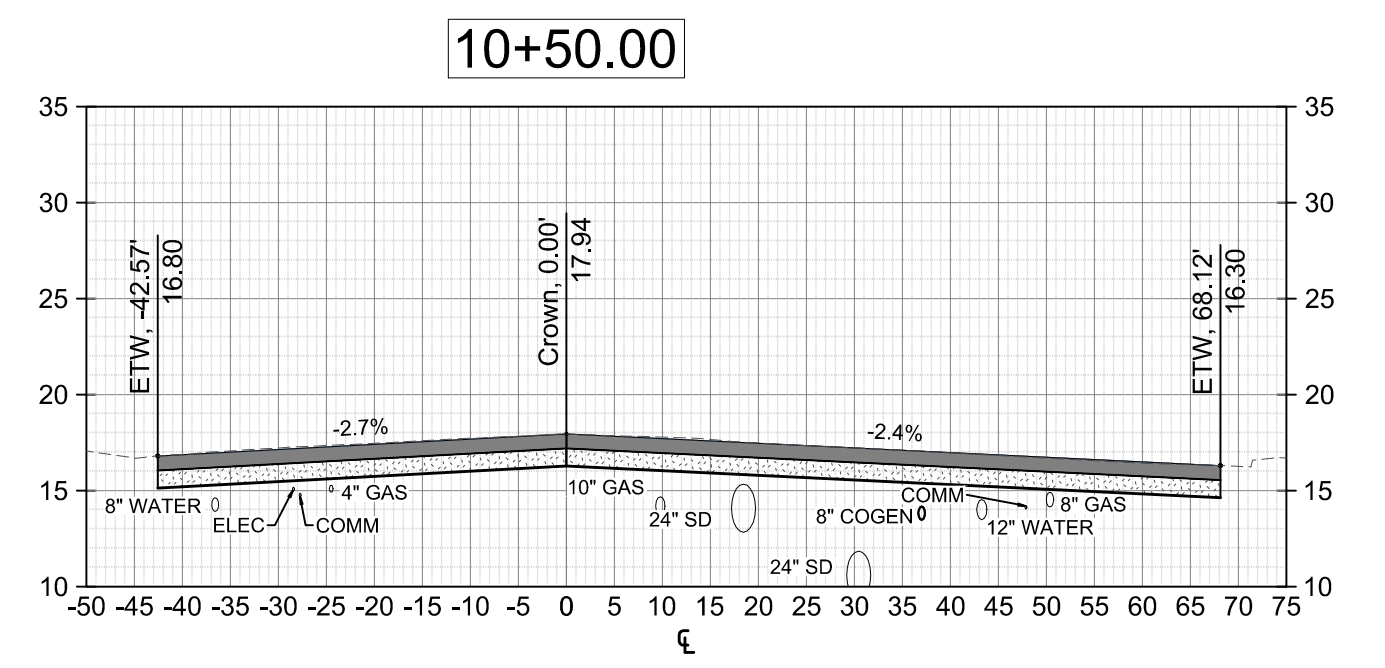
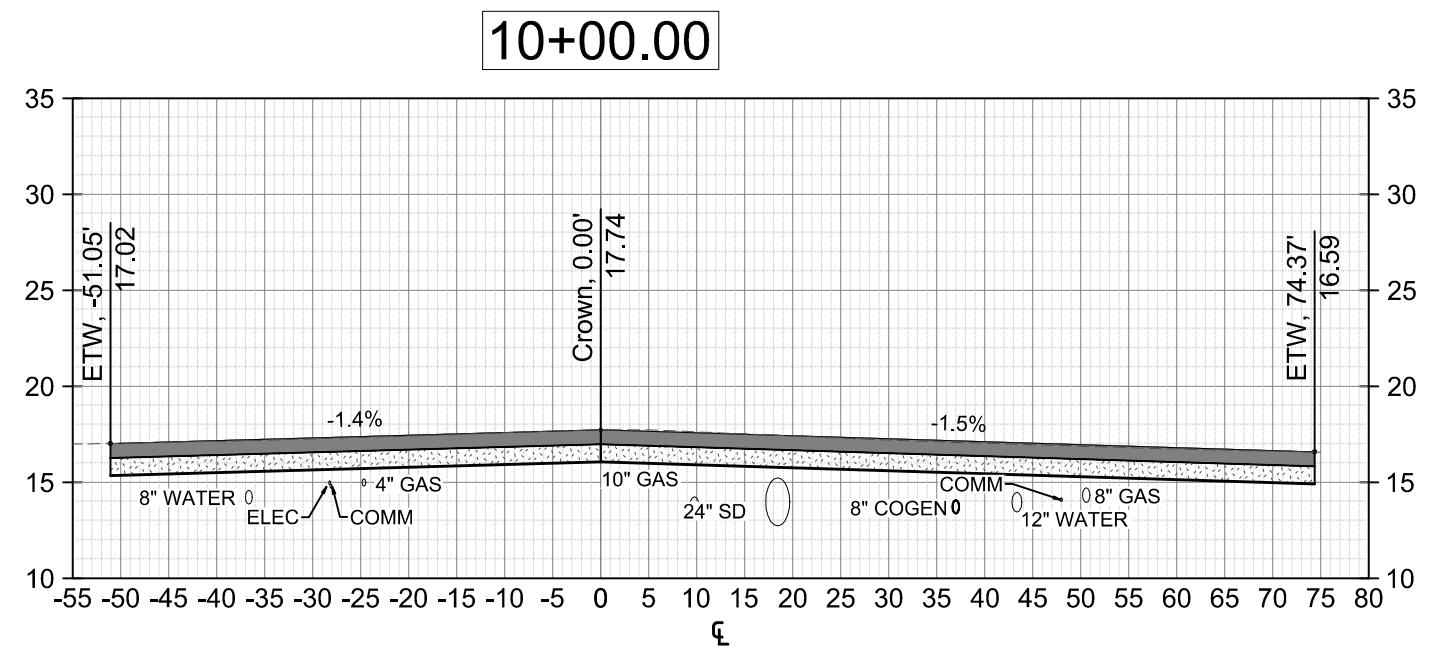
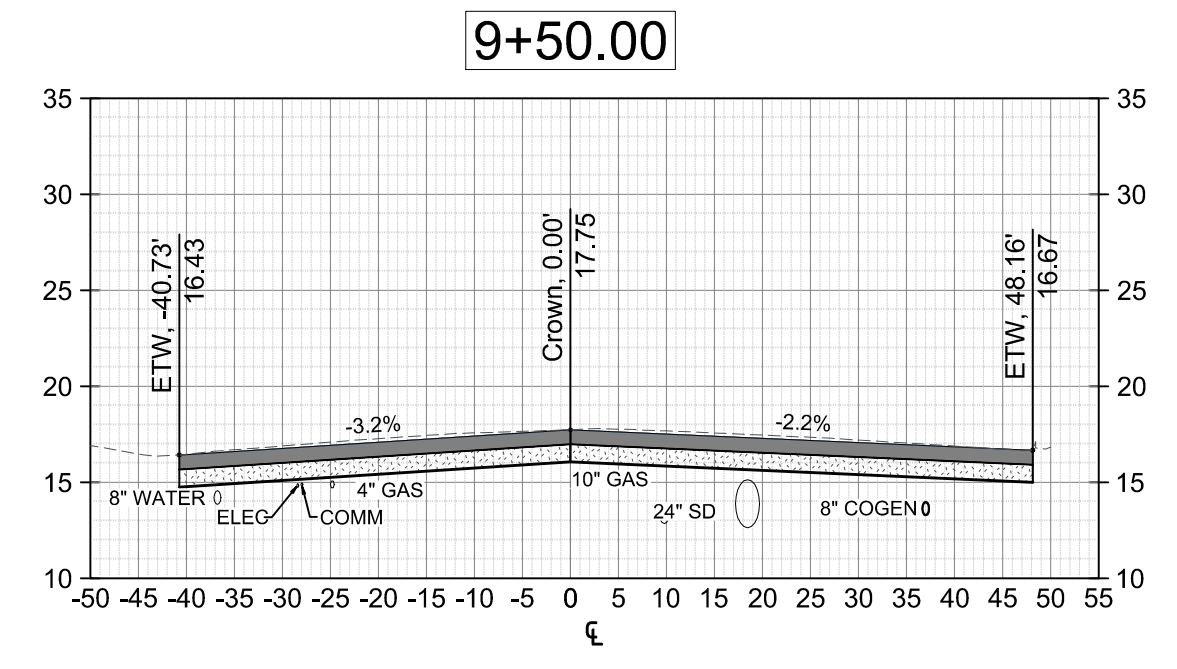
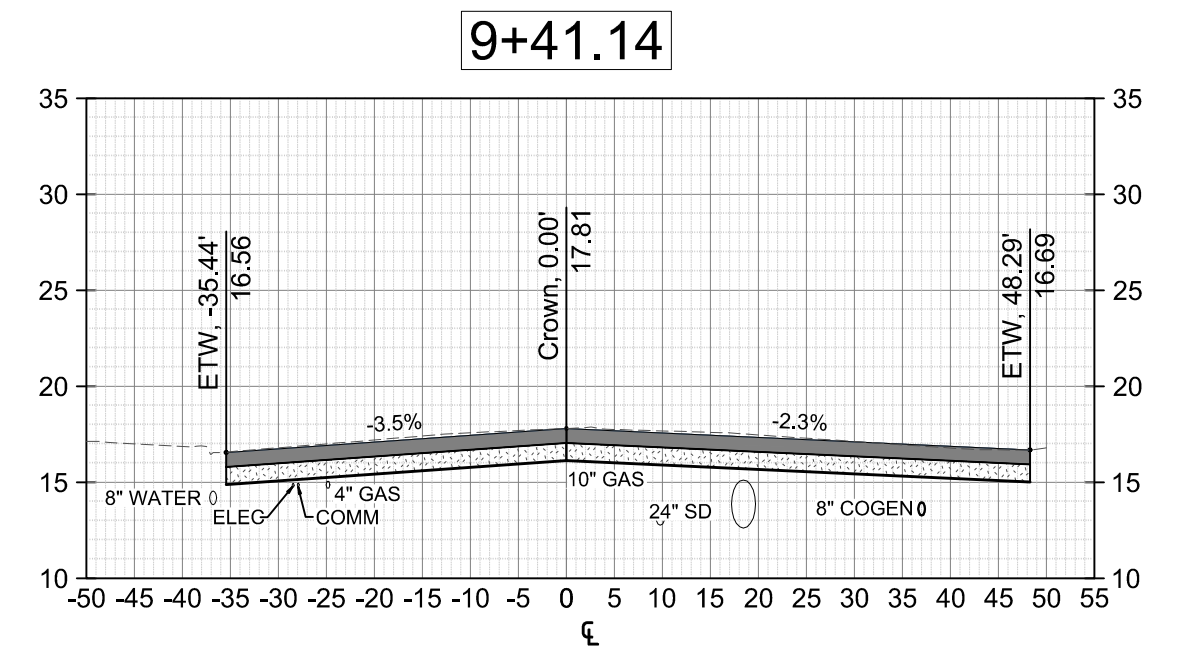
**CITY OF LATHROP**  
**LOUISE AVENUE PAVEMENT REHABILITATION PROJECT**  
**ENLARGEMENT "A"**



DRAWN BY: **JRE**  
PROJECT NUMBER: **200074**  
SCALE: **1"=5'**  
VERIFY SCALE  
BAR REPRESENTS  
1" ON ORIGINAL  
DATE: **JULY 2020**  
SHEET NUMBER:



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**CROSS SECTIONS**  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=10'

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**CITY OF LATHROP**  
 LOUISE AVENUE PAVEMENT REHABILITATION PROJECT

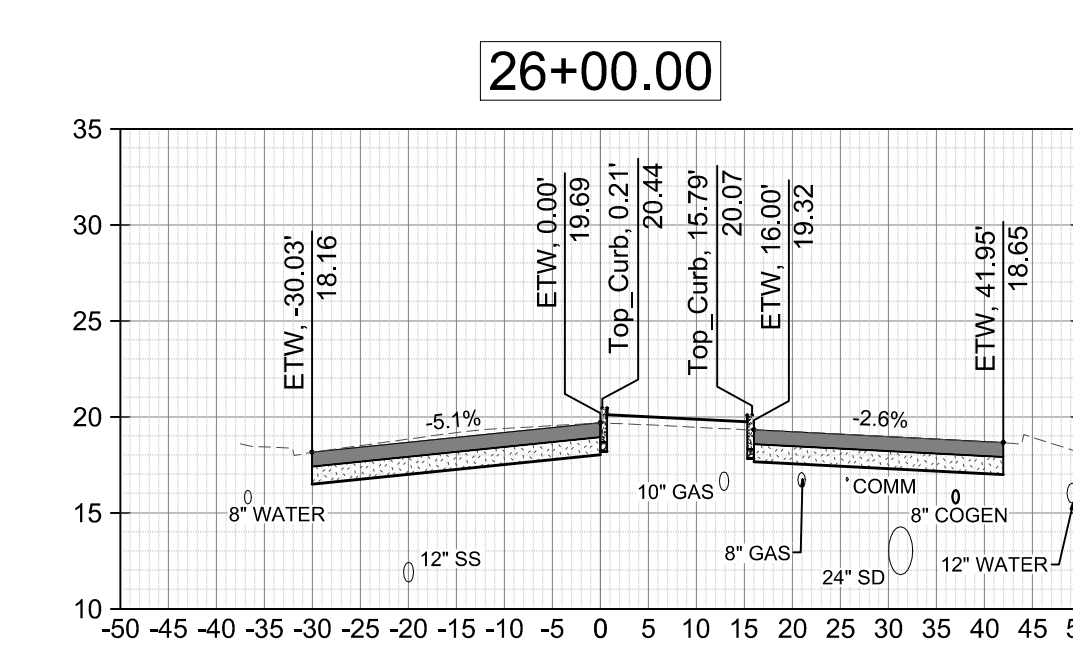
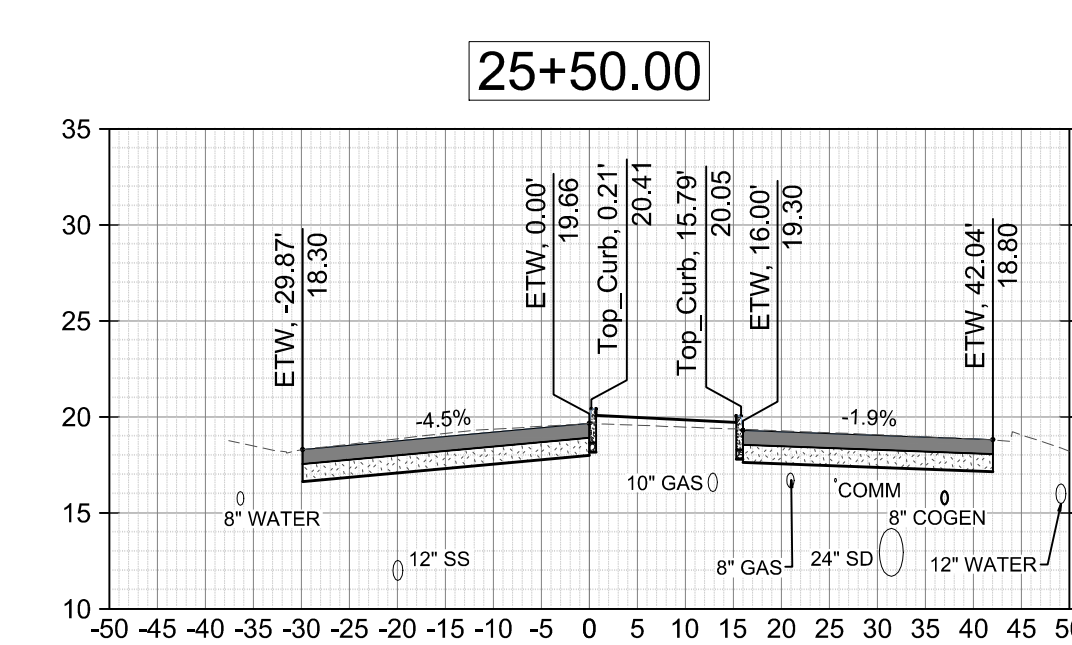
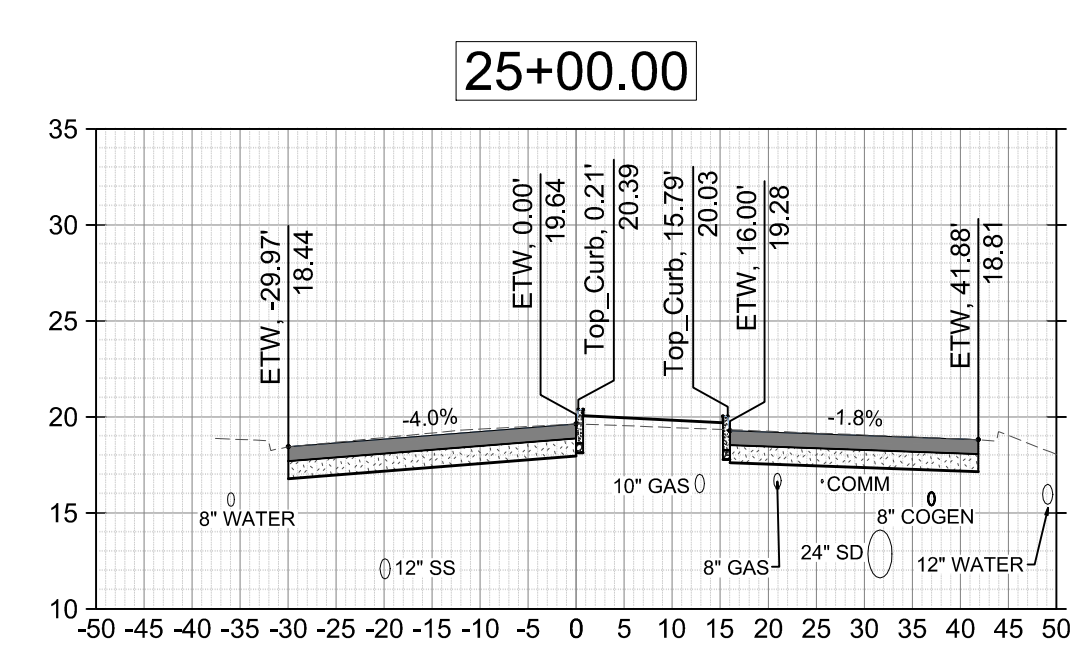
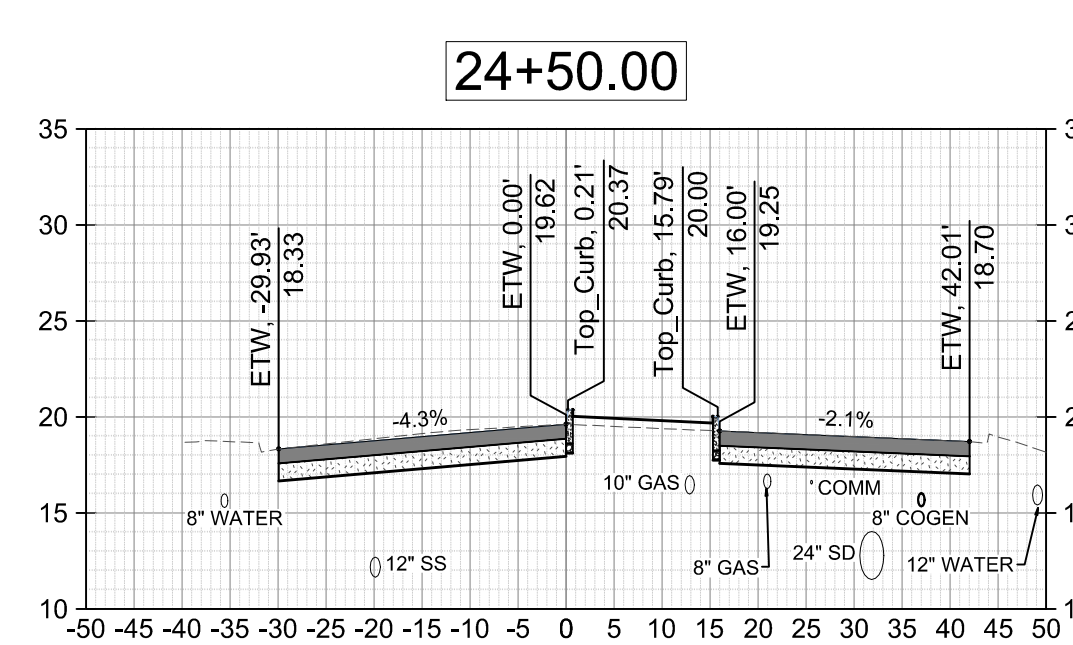
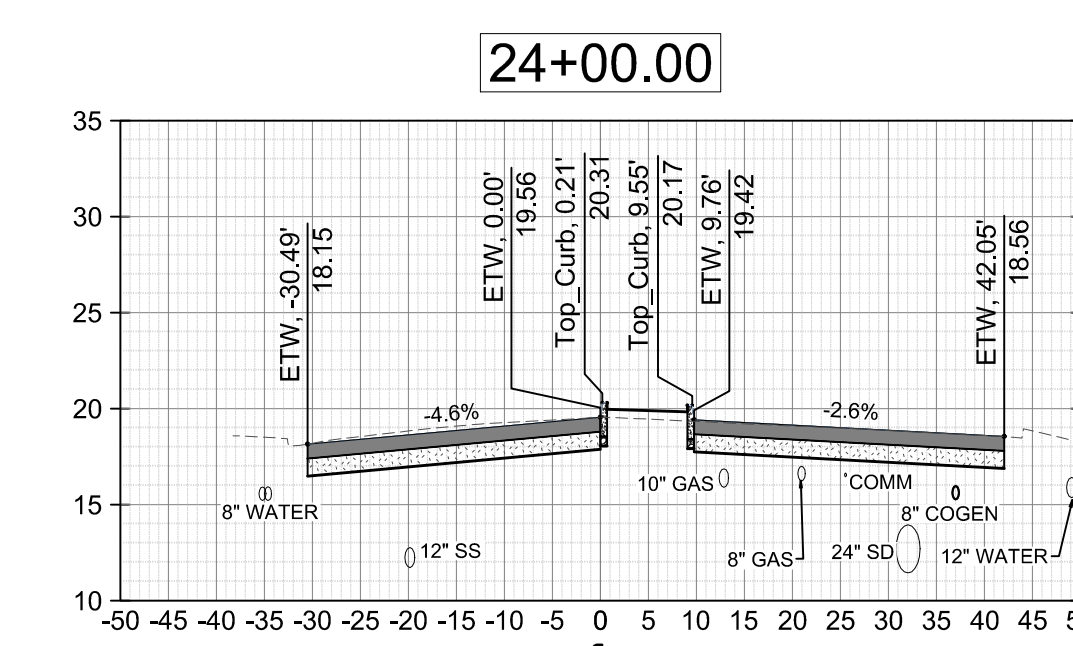
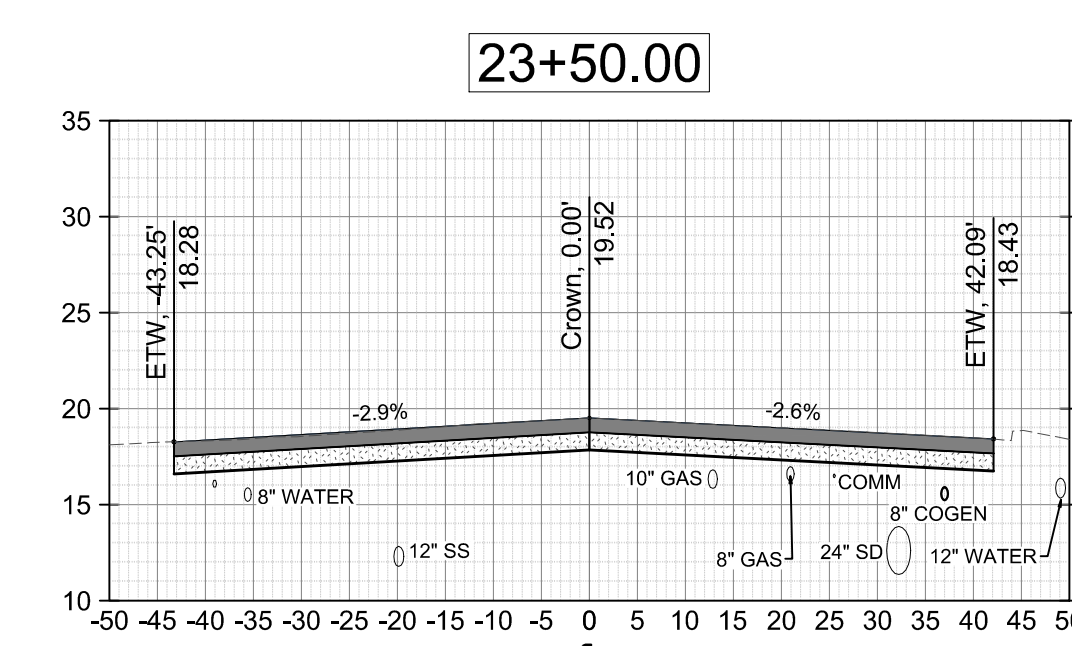
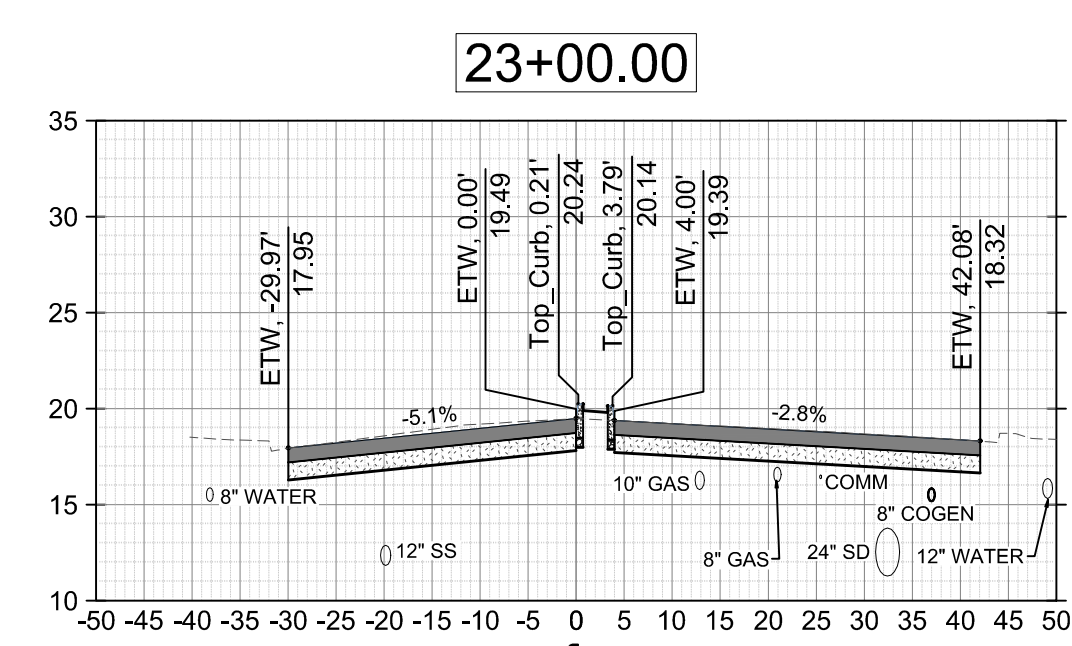
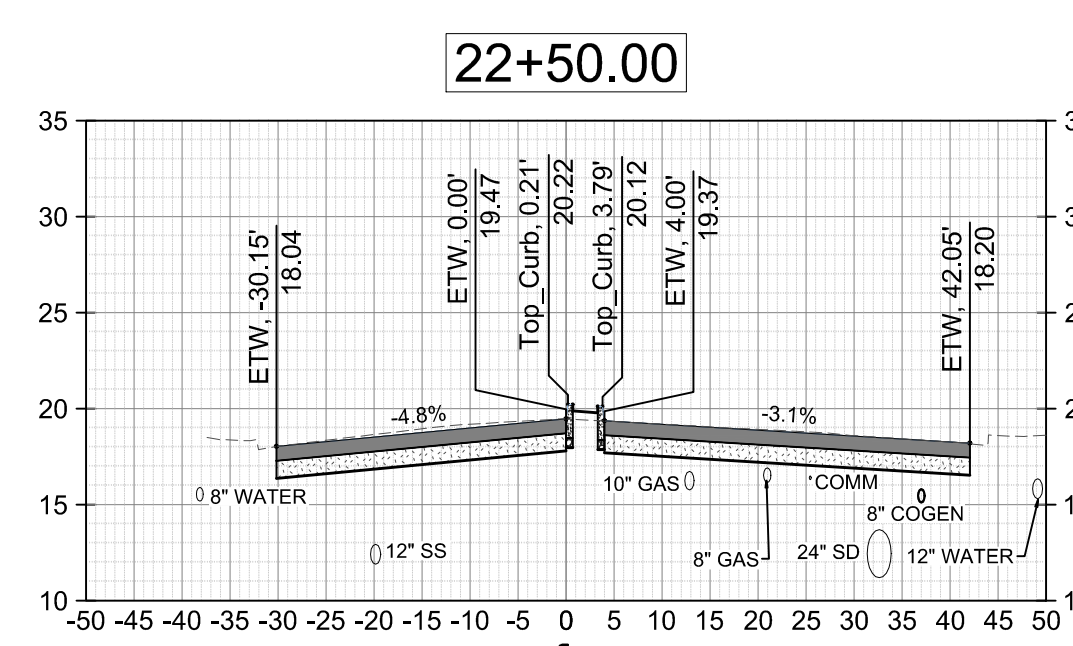
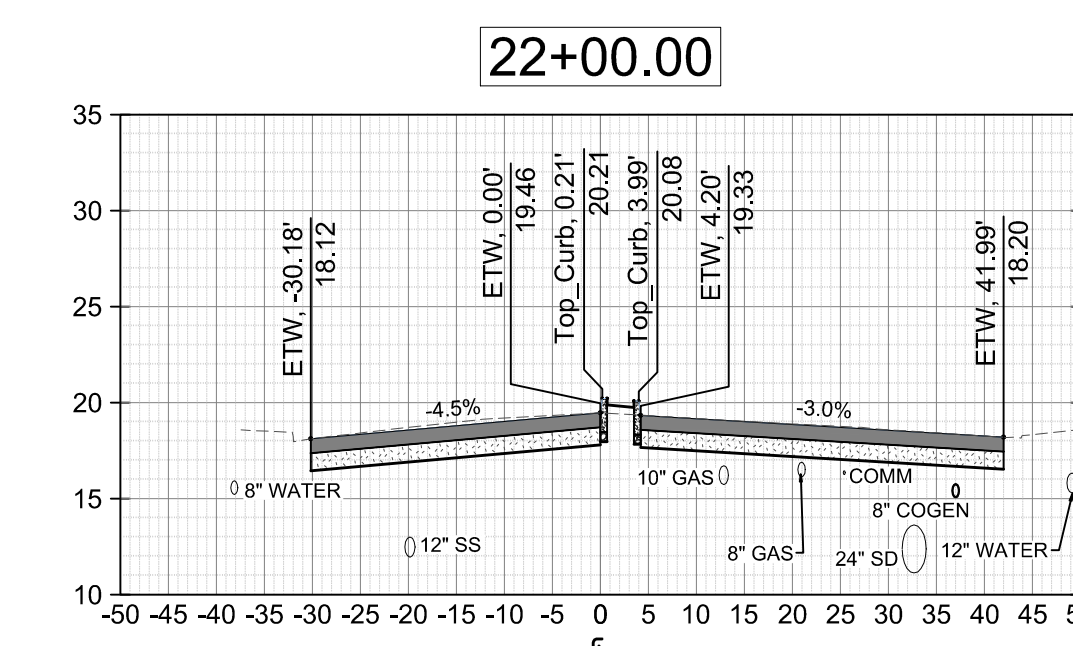
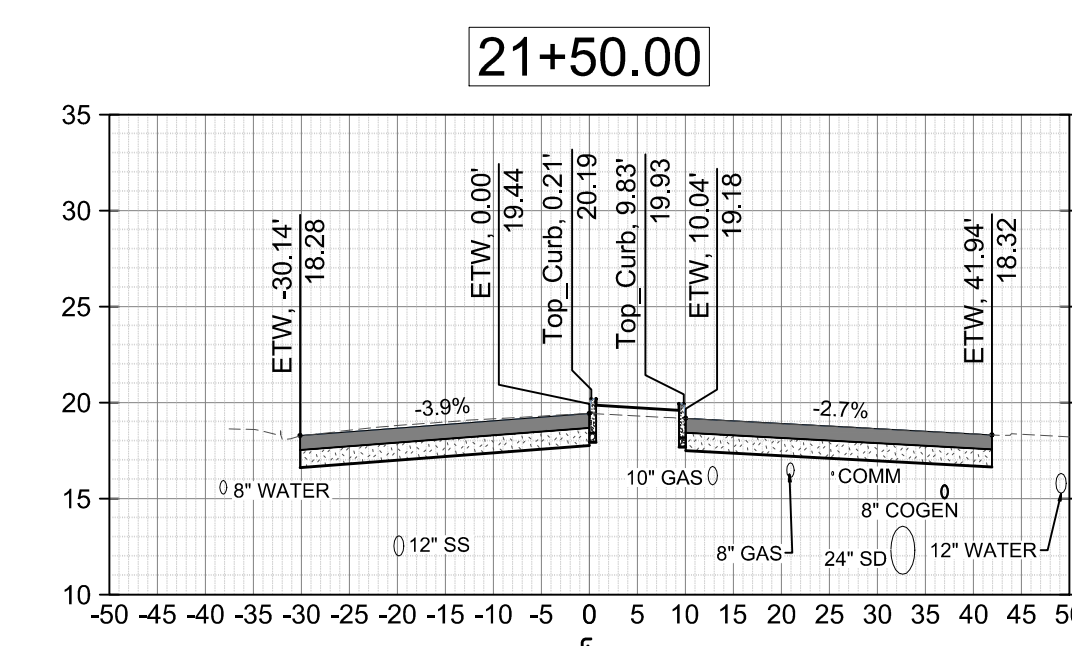
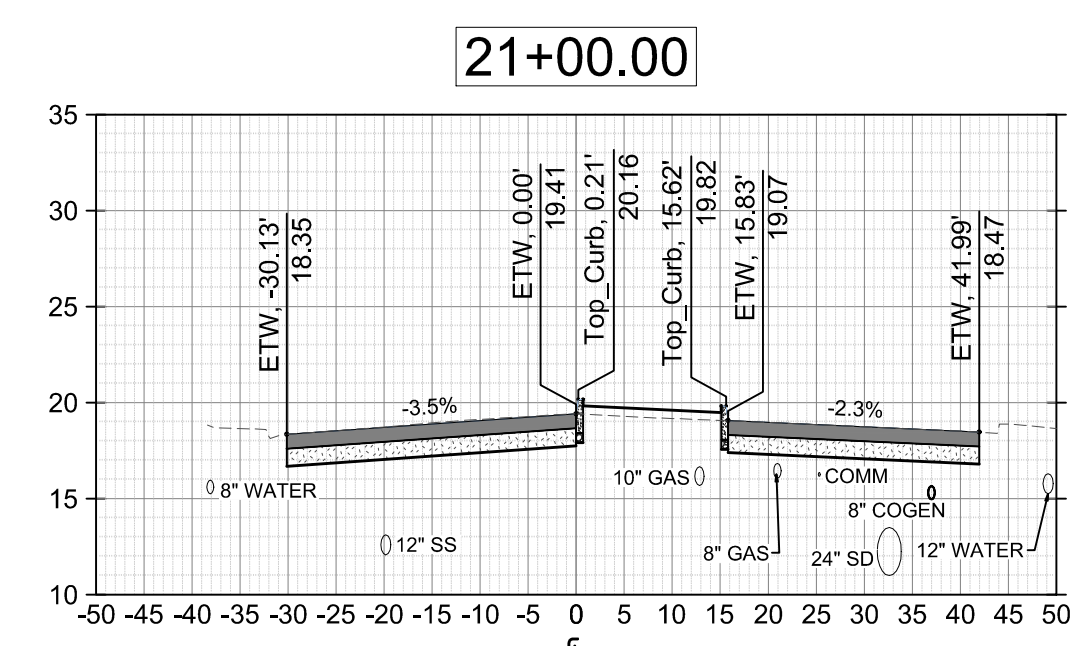
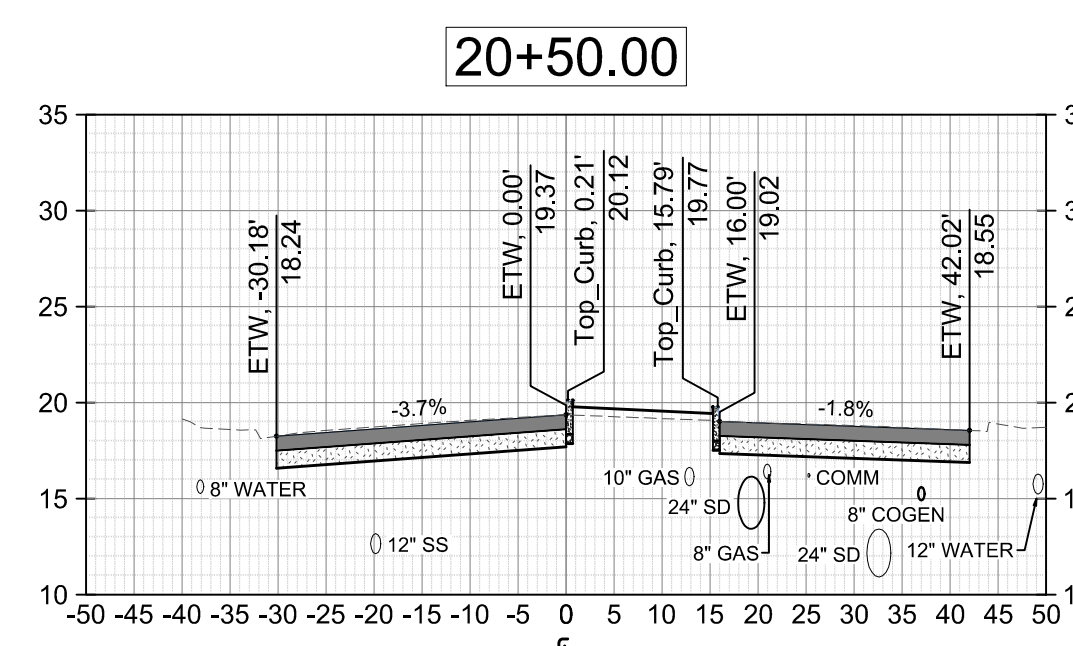
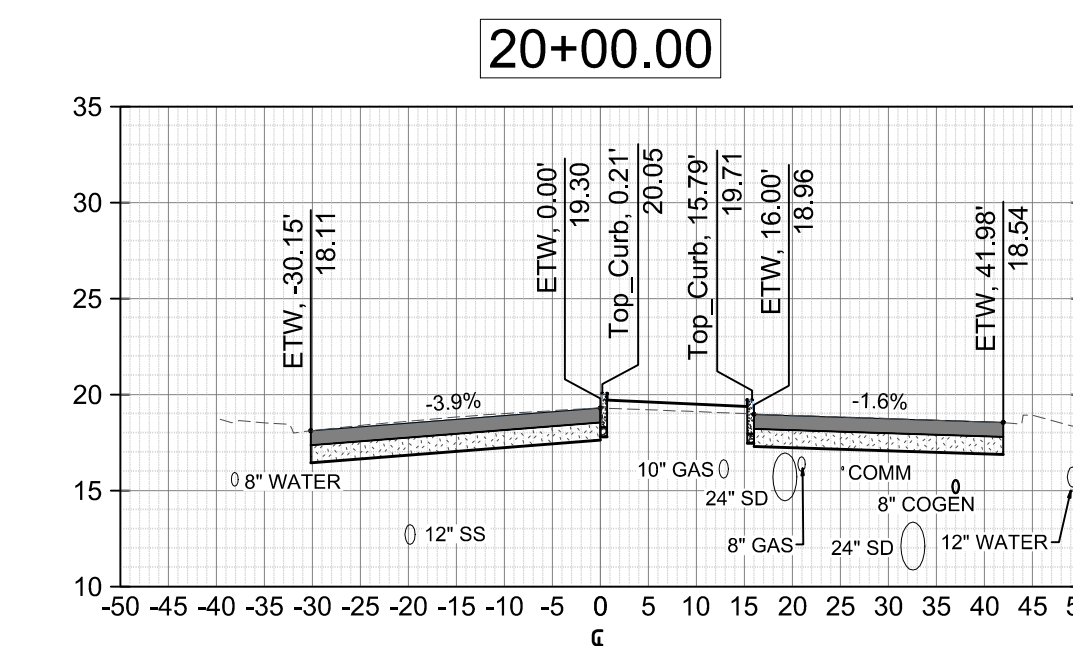
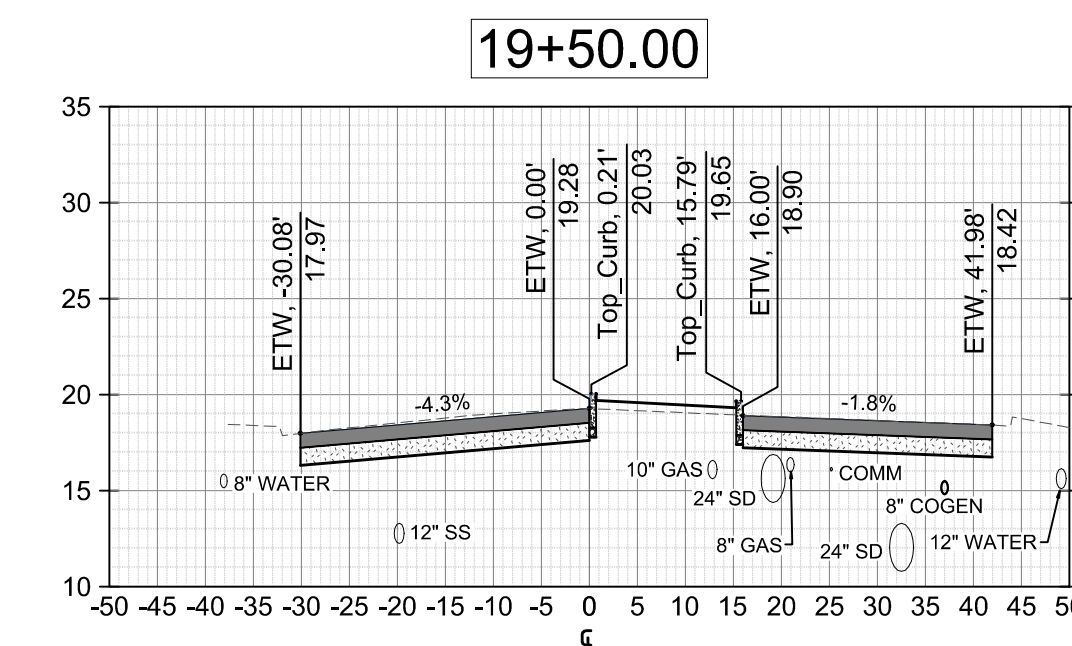
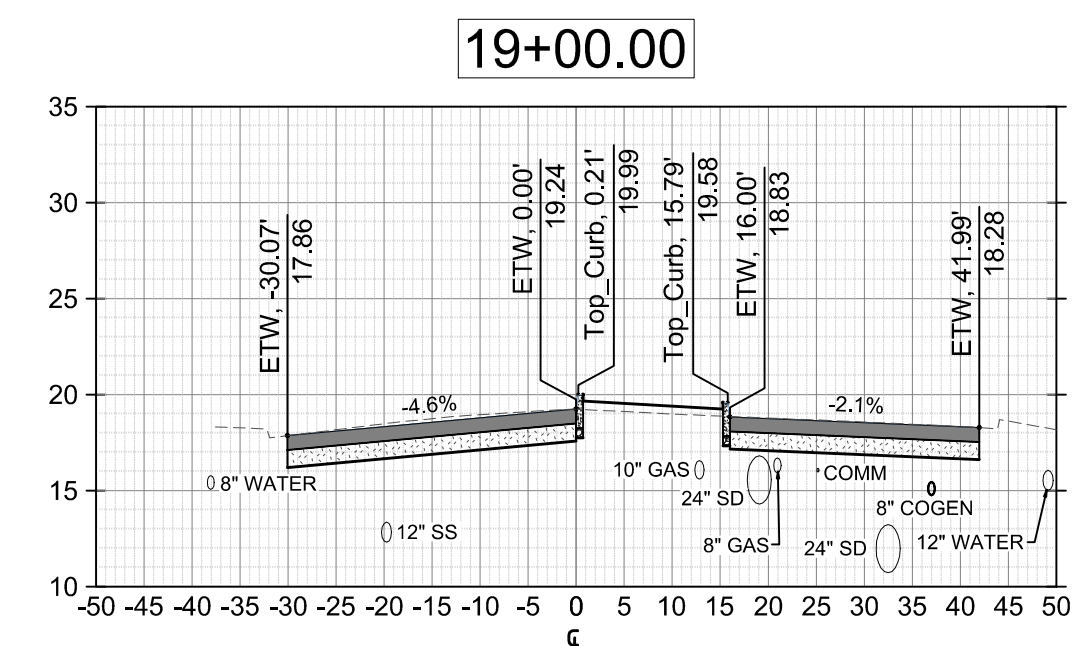
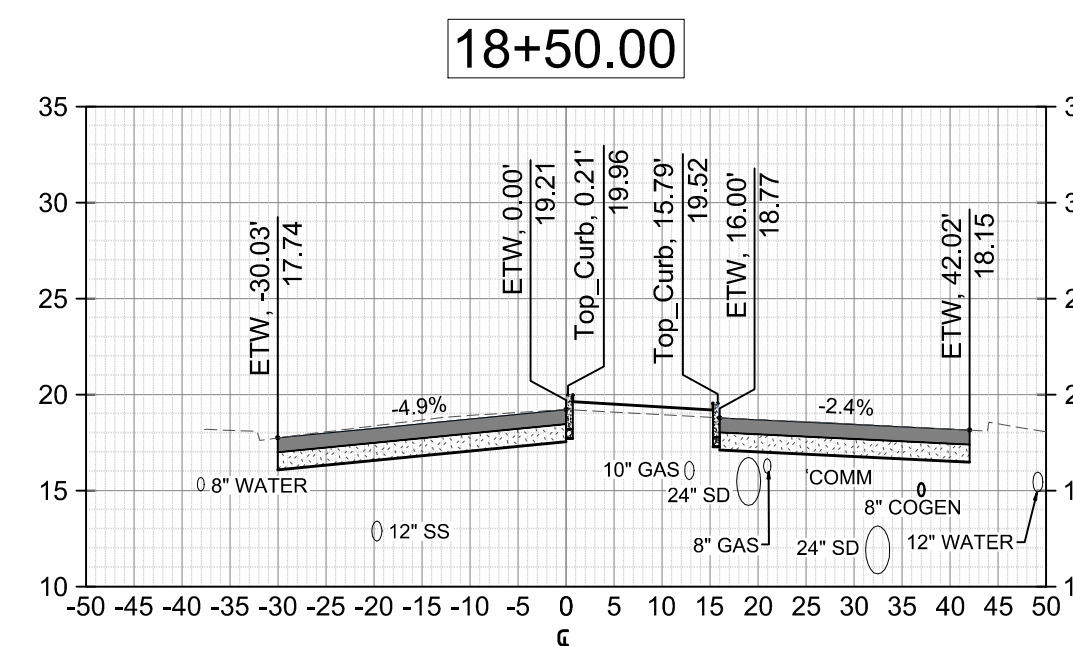
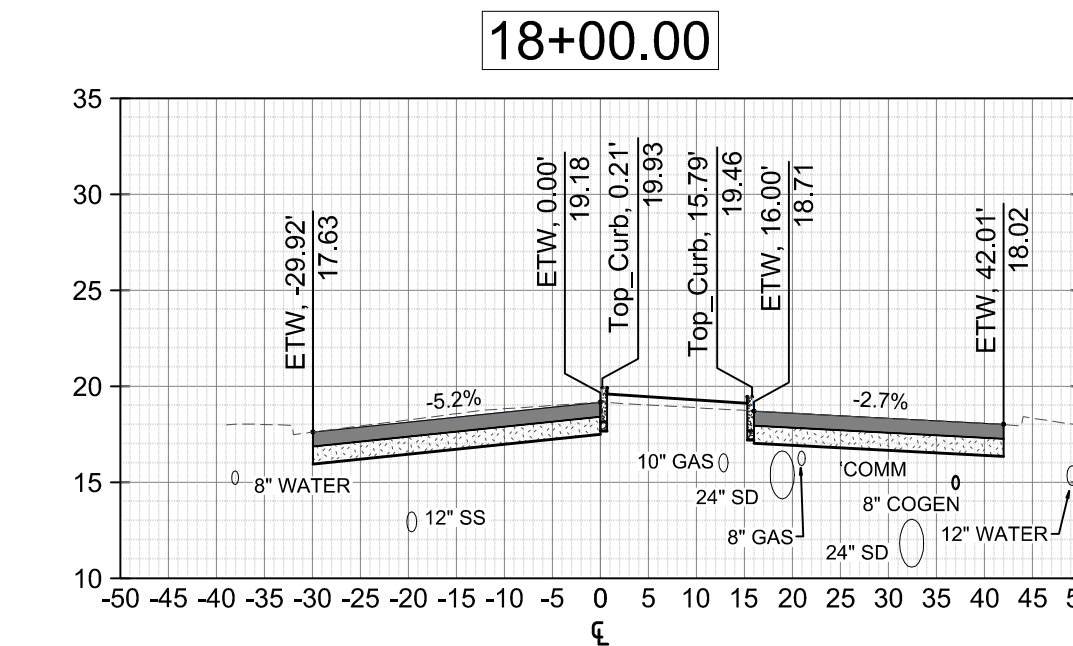
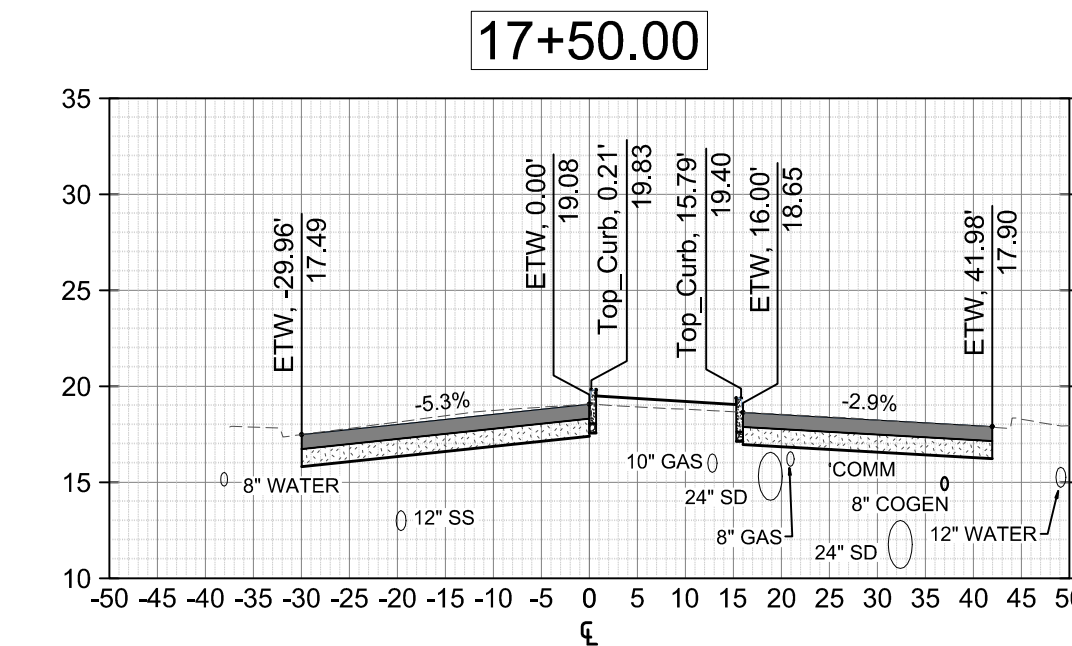
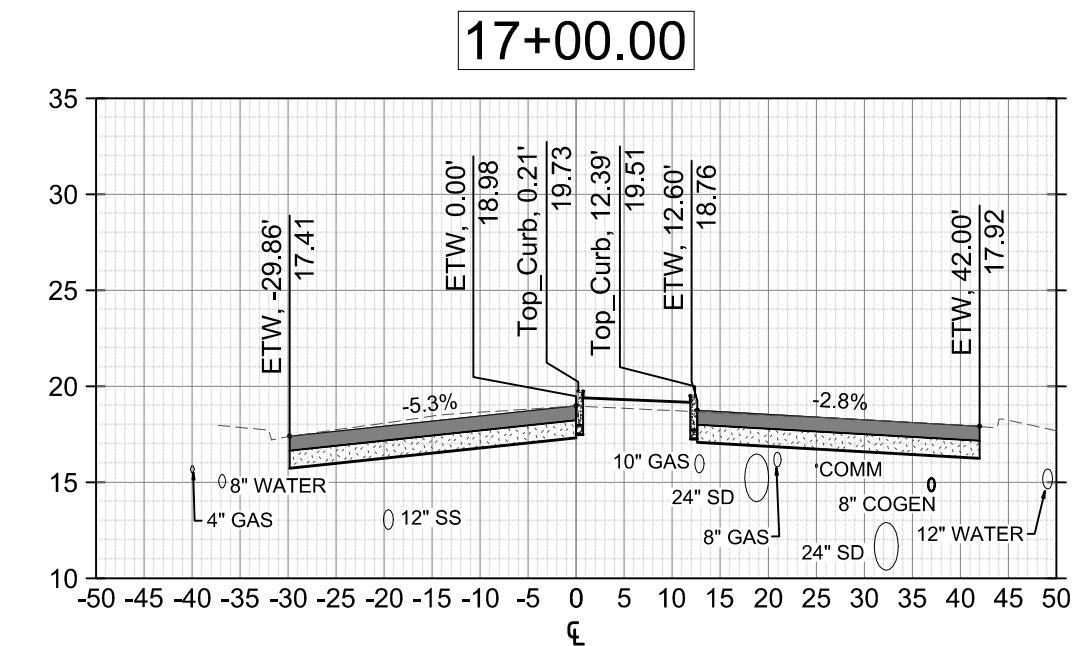
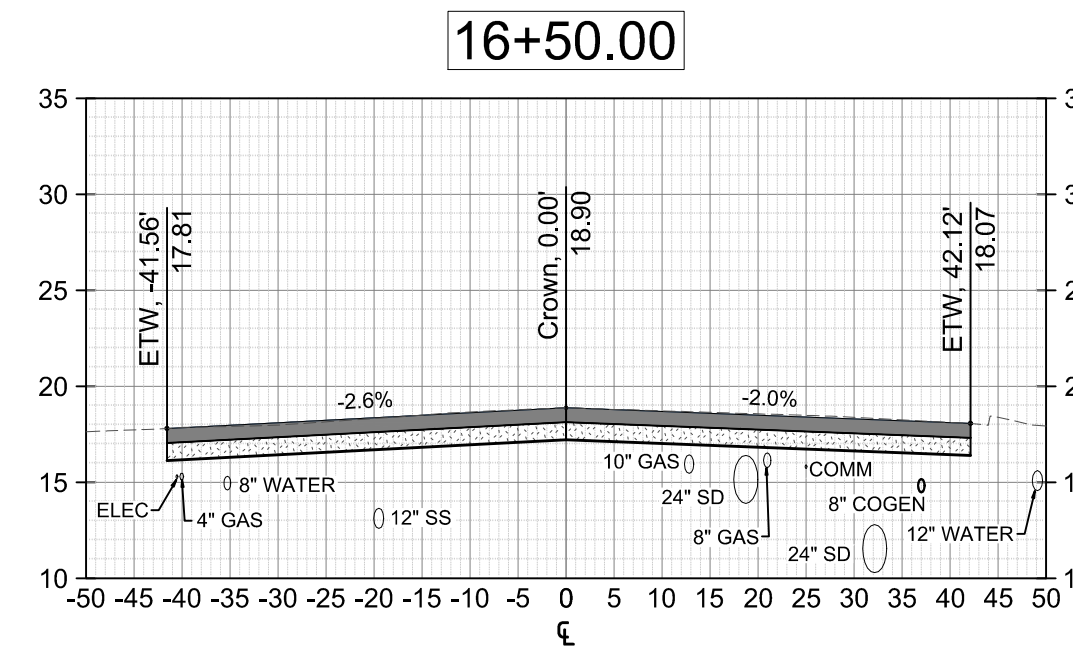
**CROSS SECTIONS**  
 STA 9+41.14 - 16+00



DRAWN BY:	JRE
PROJECT NUMBER:	200074
SCALE:	AS SHOWN
VERIFY SCALE	
BAR REPRESENTS	1" ON ORIGINAL
DATE:	JULY 2020
SHEET NUMBER:	P8



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**CROSS SECTIONS**  
HORIZONTAL 1"=20'  
VERTICAL 1"=10'

**BID ALTERNATE NOTE:**  
MEDIANS SHOWN FROM STA 17+00 THRU 32+50 PER BID ALTERNATE 1

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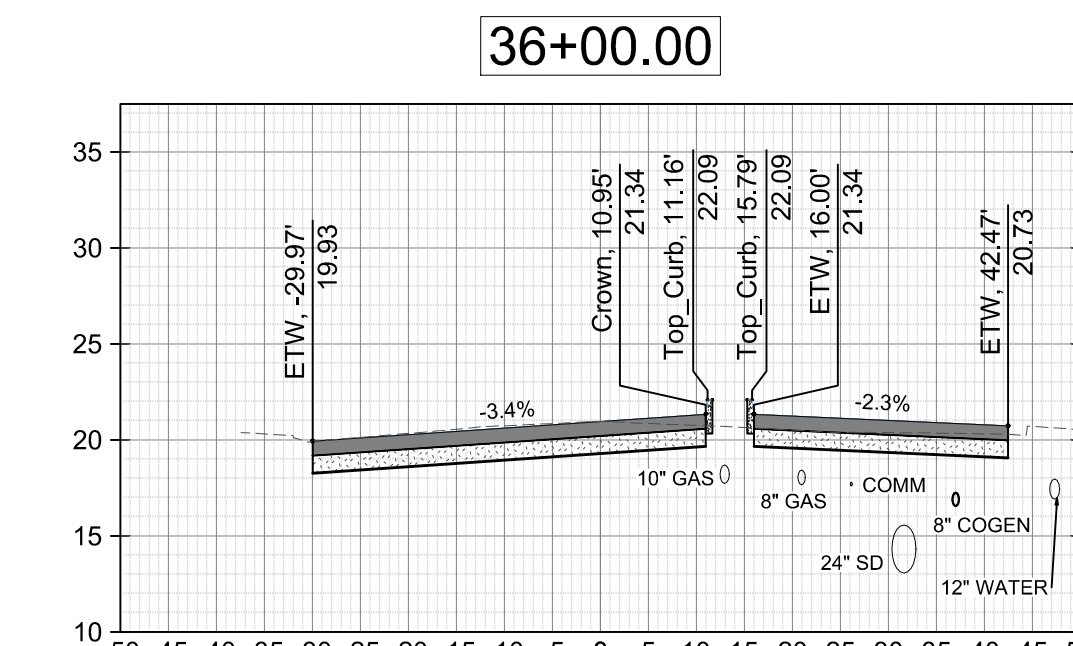
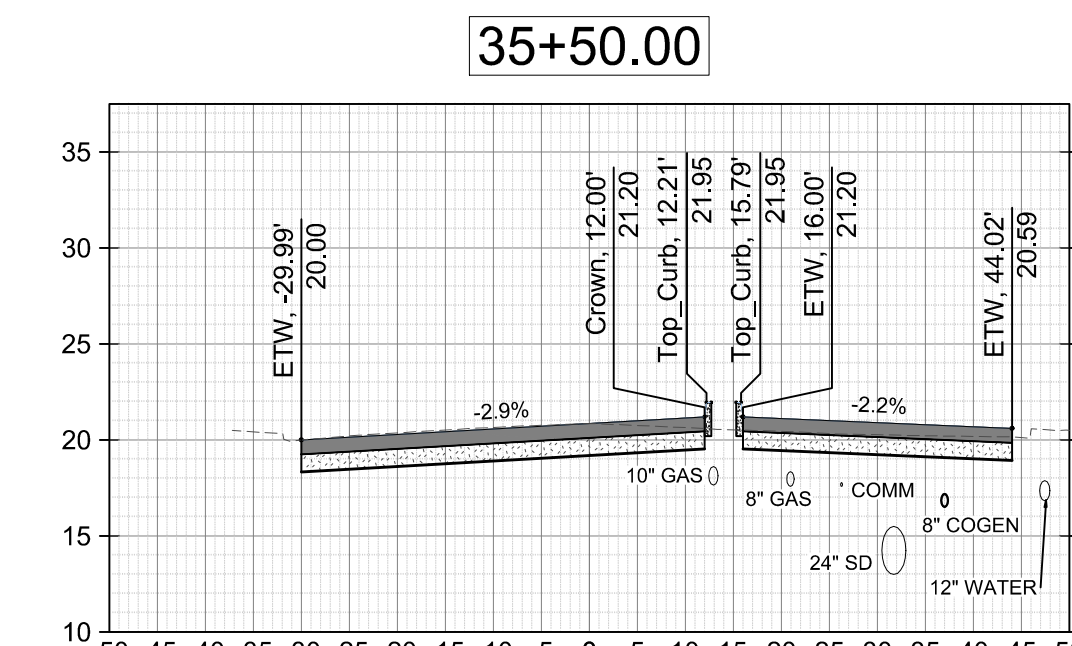
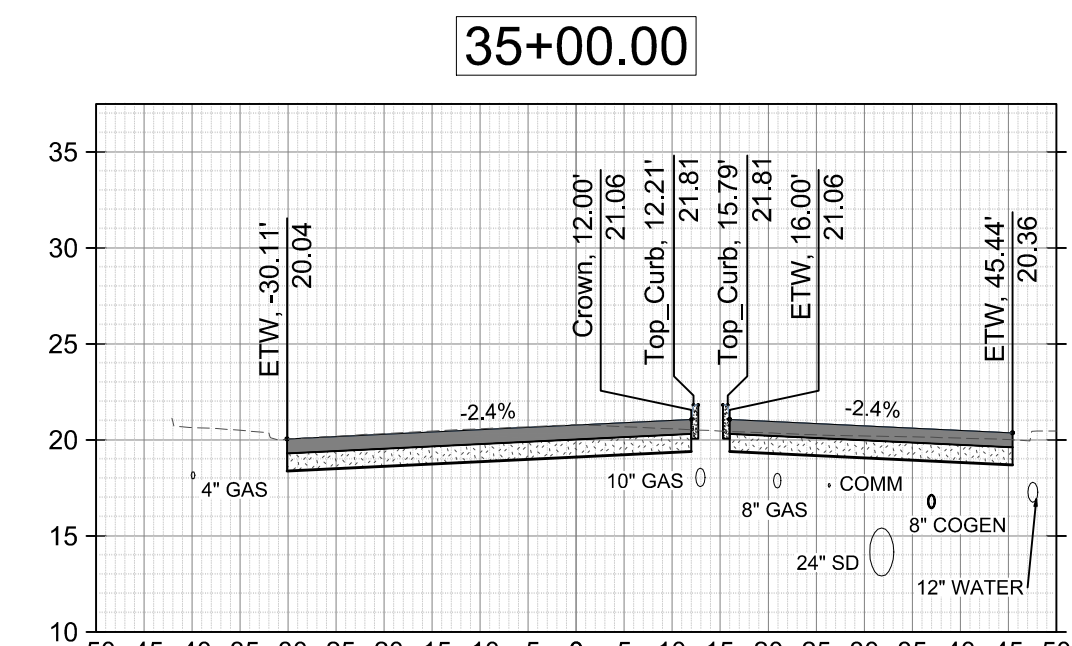
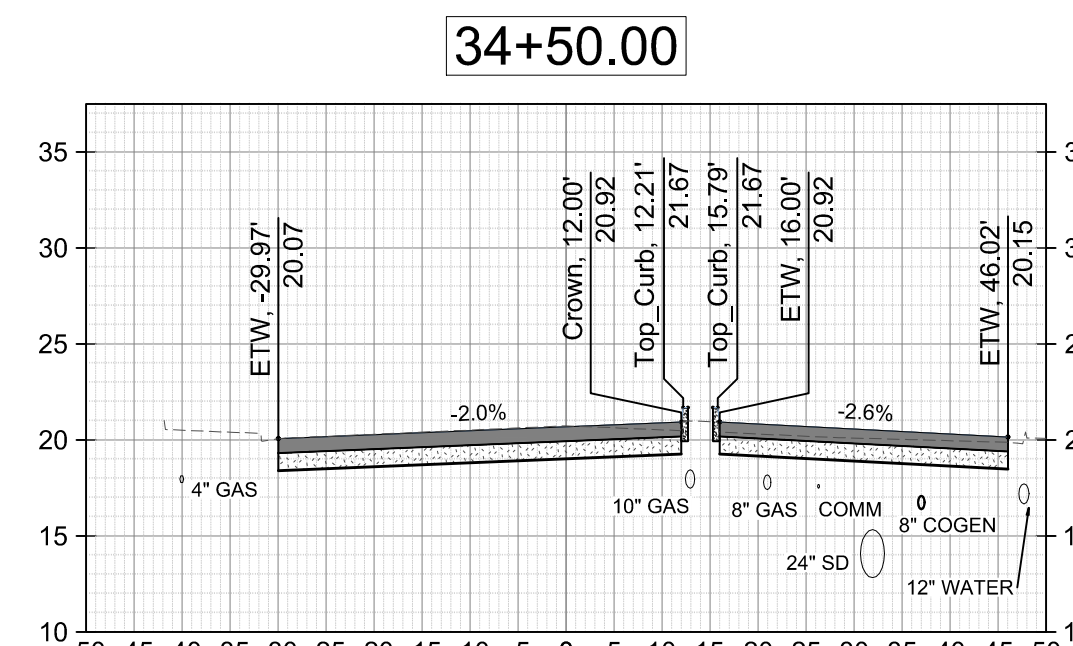
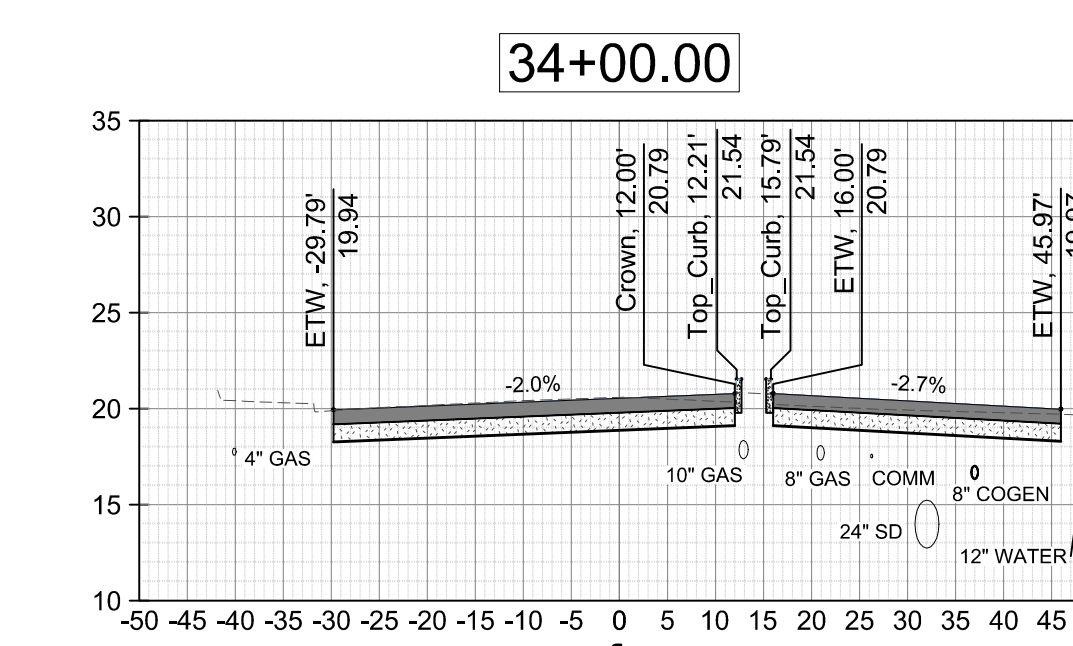
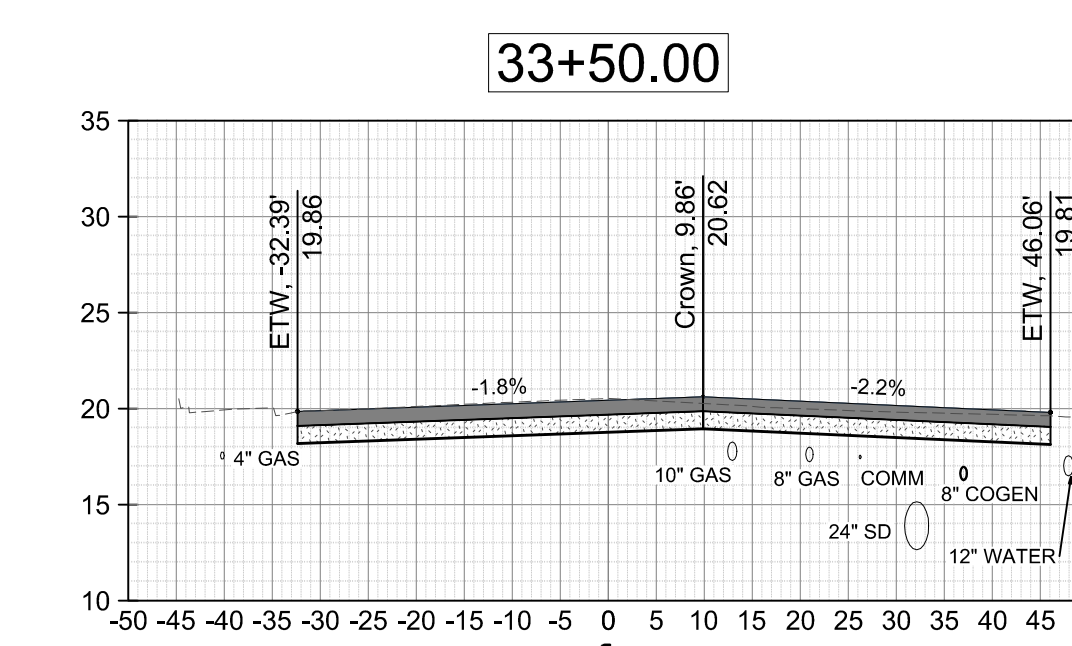
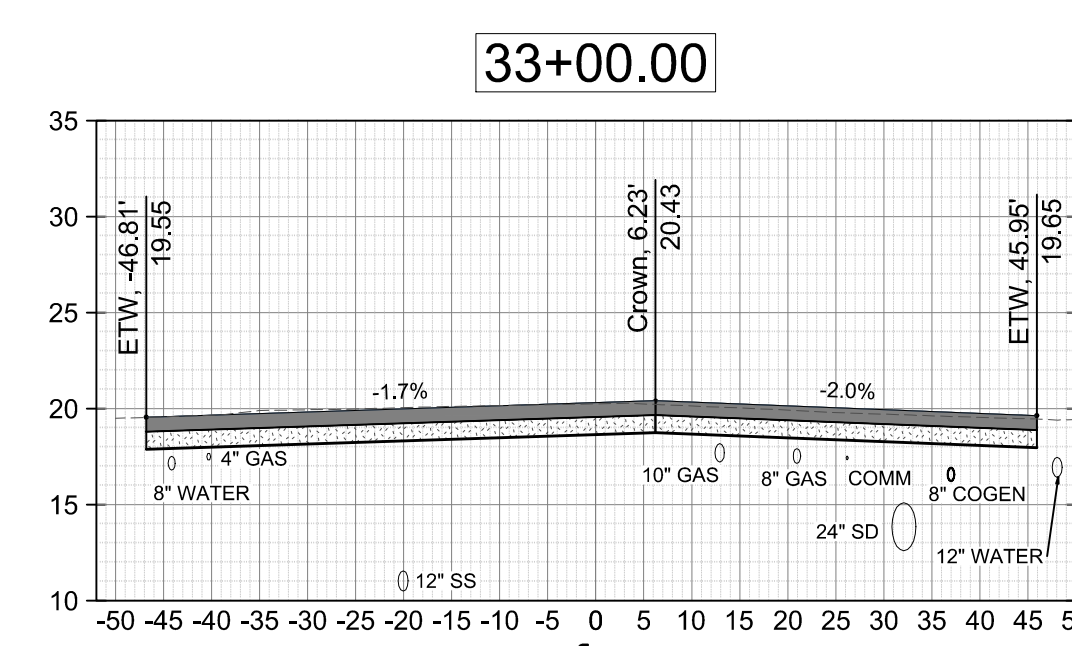
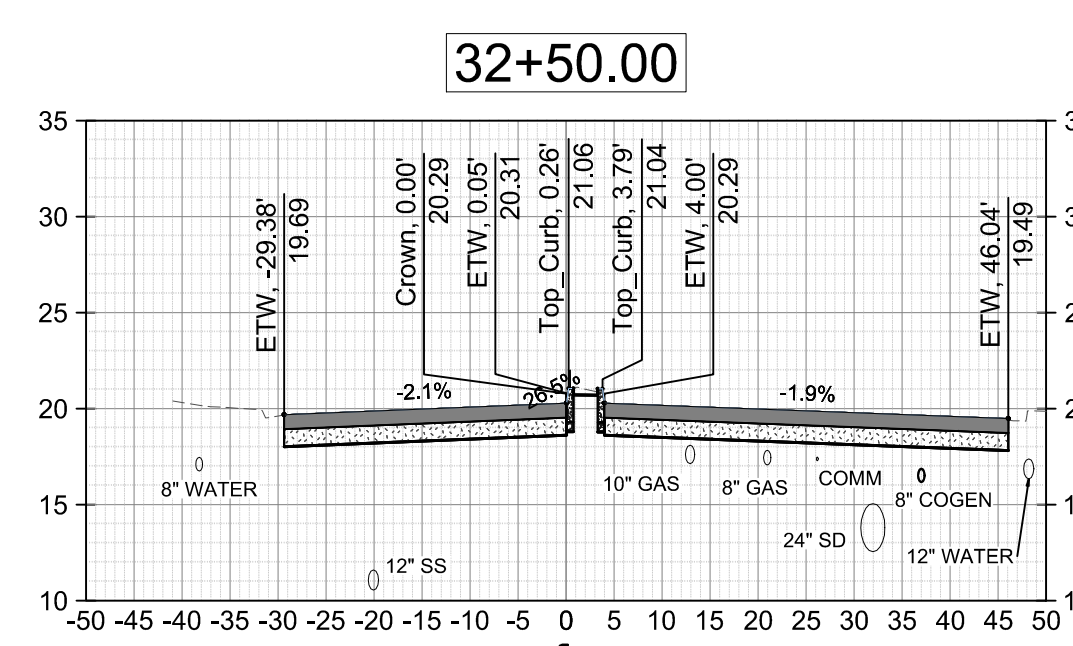
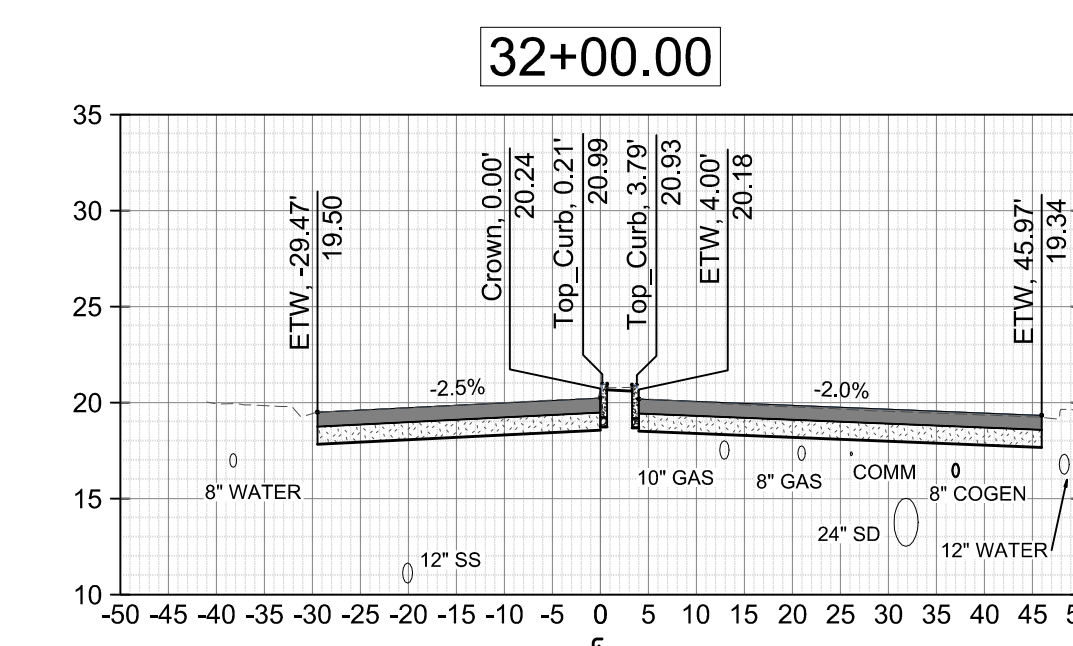
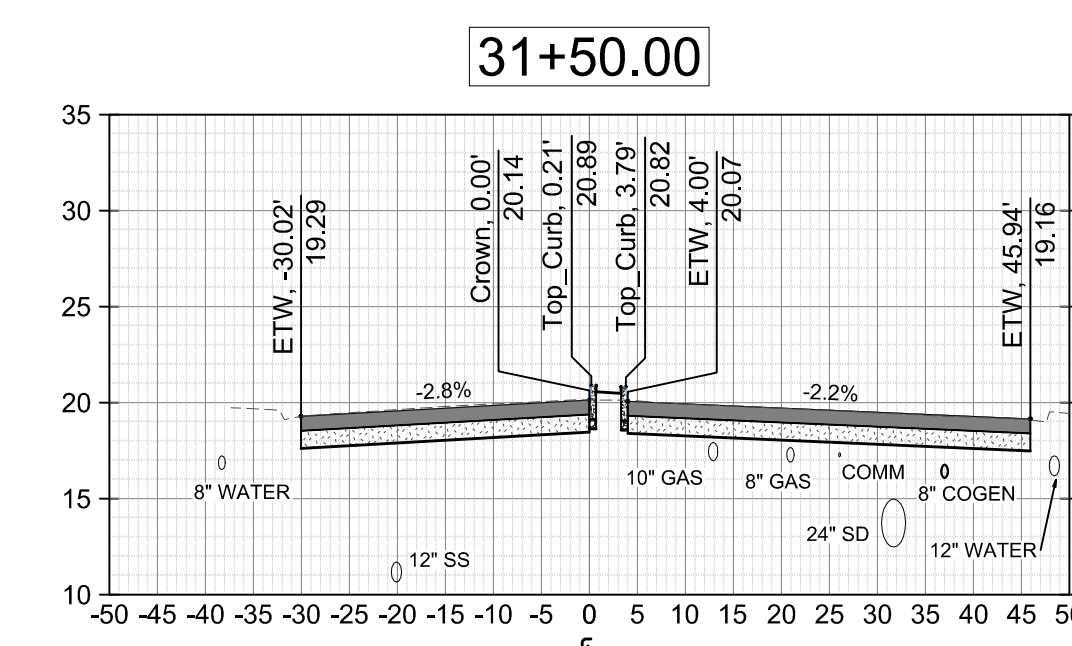
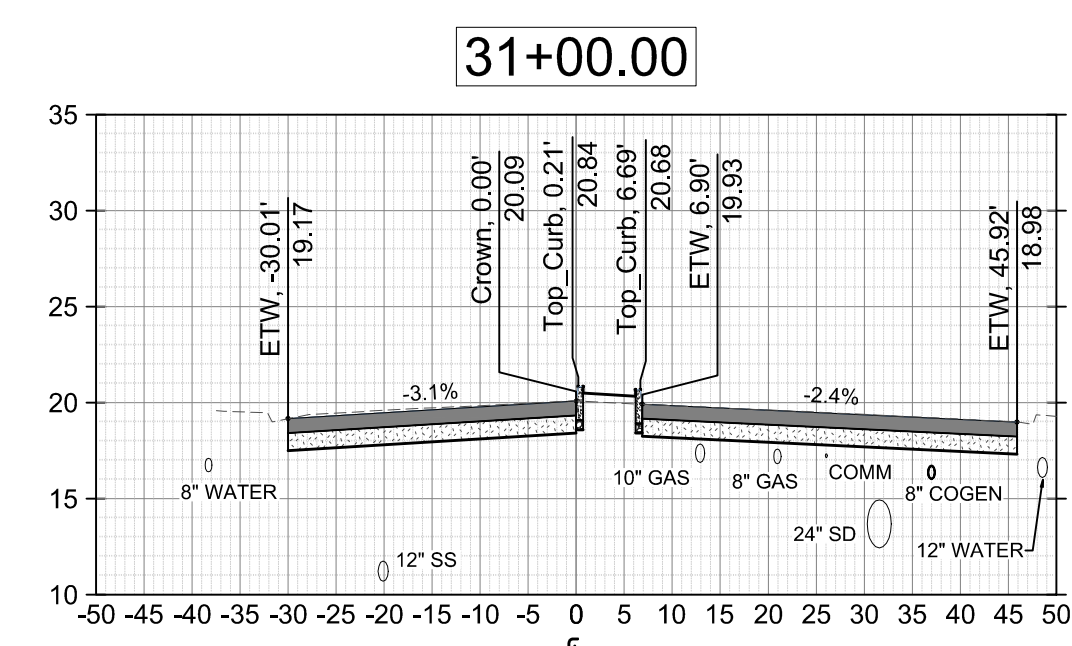
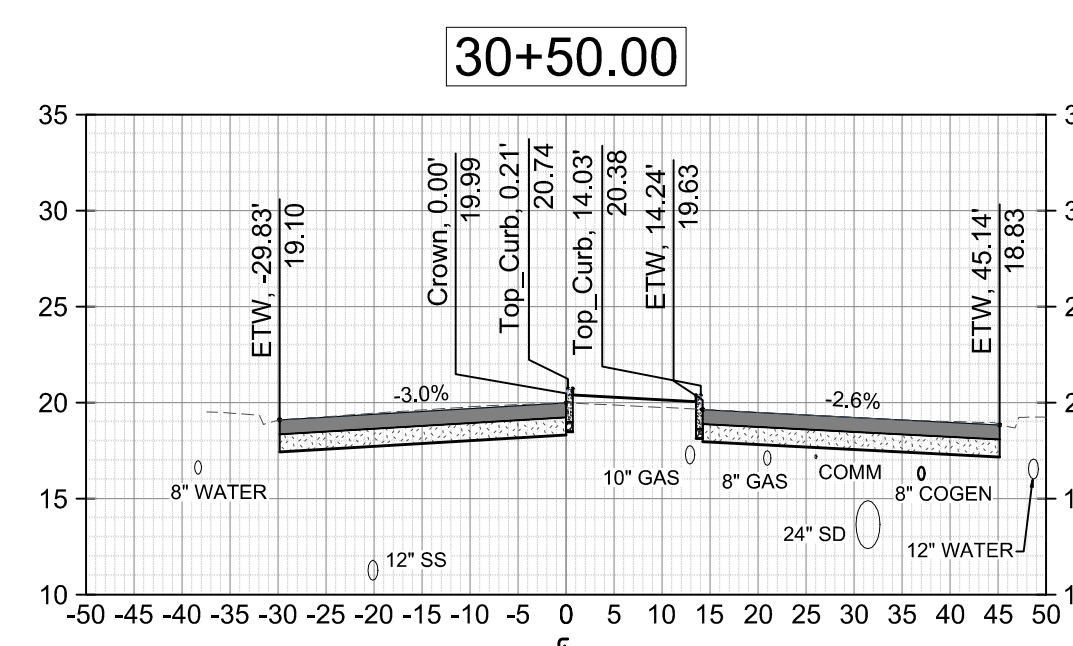
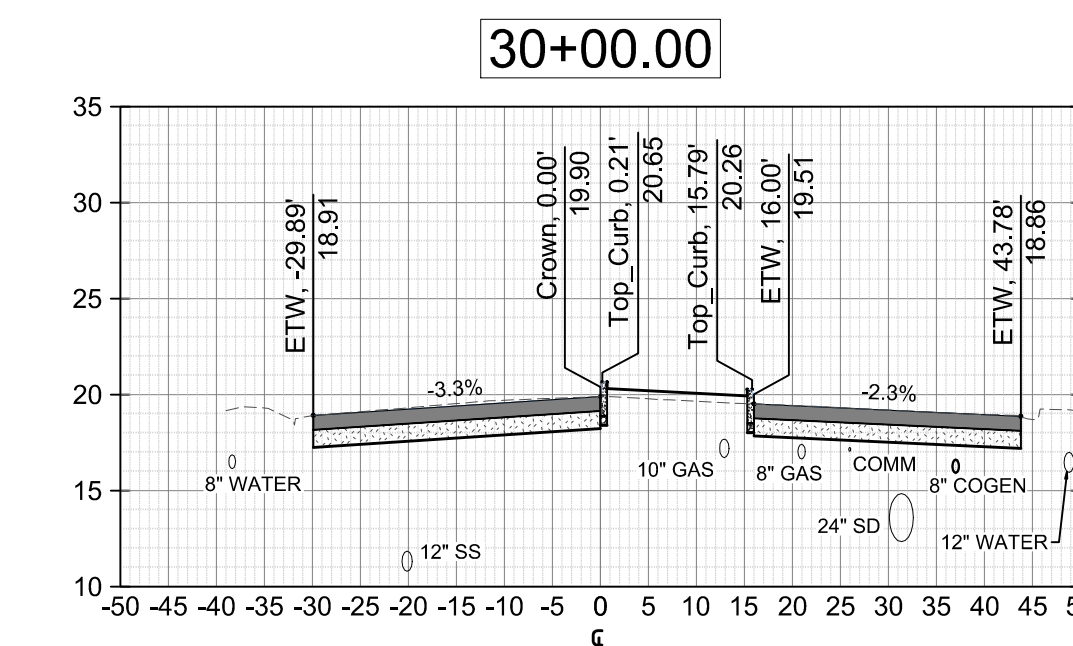
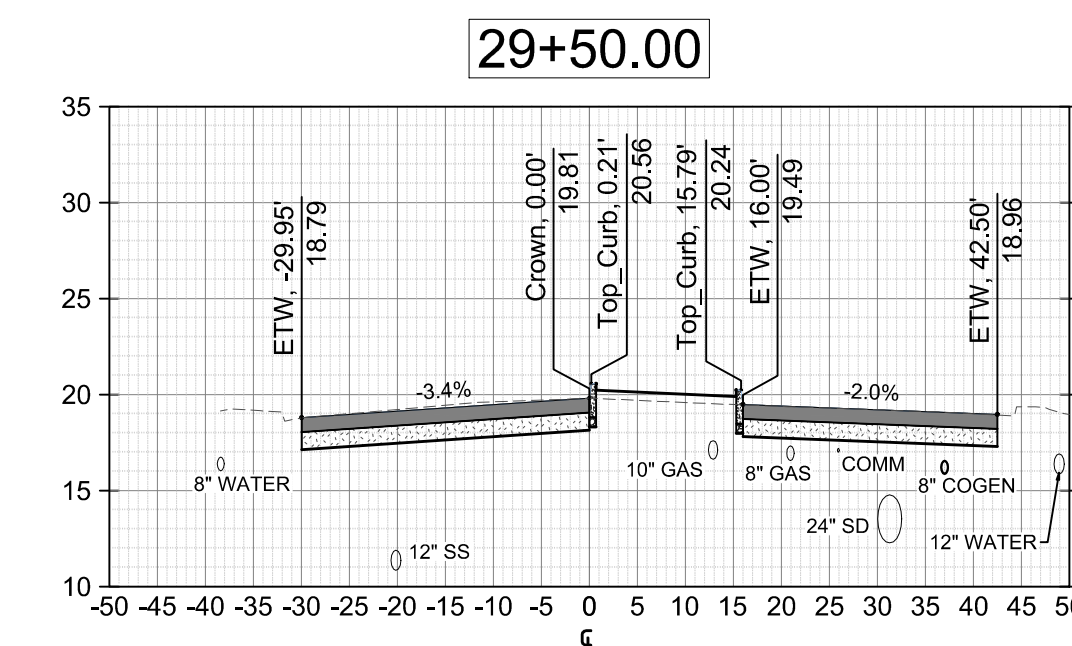
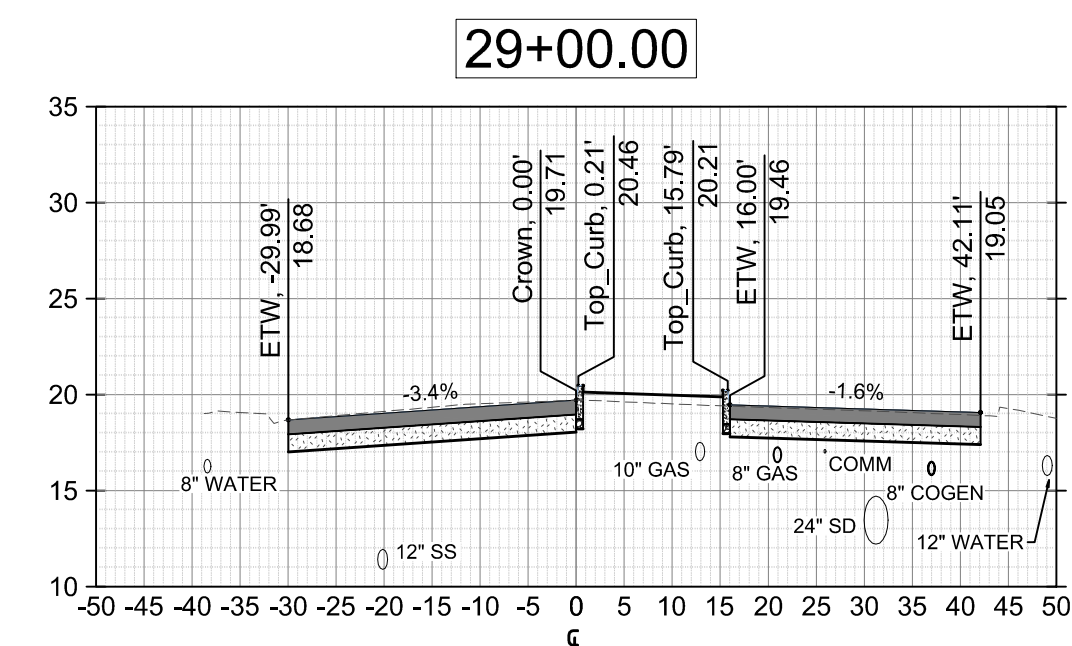
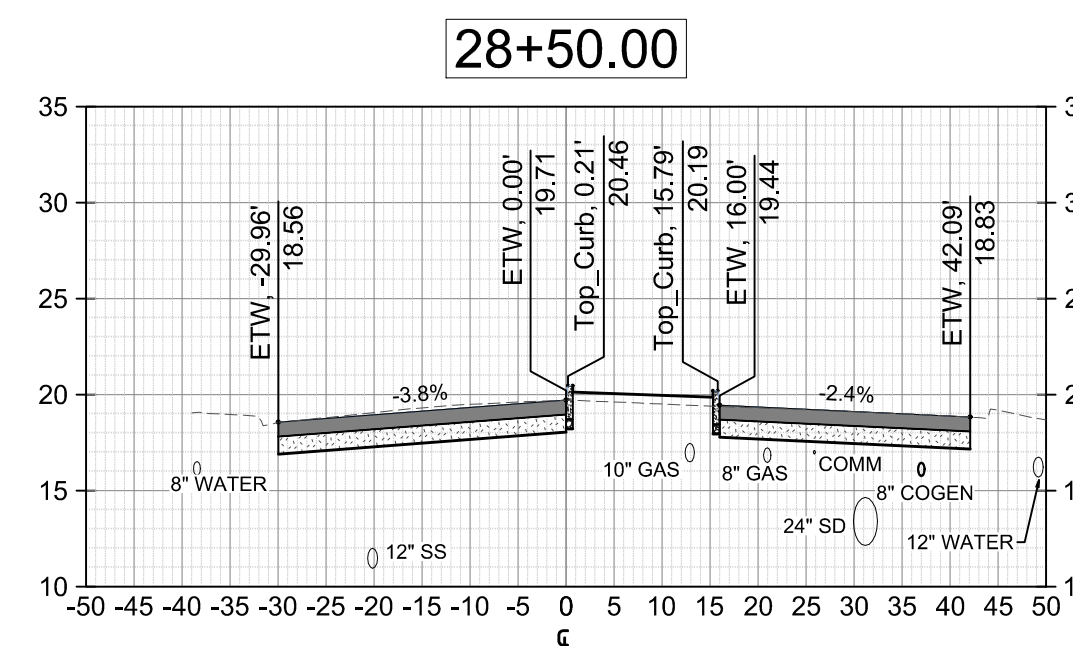
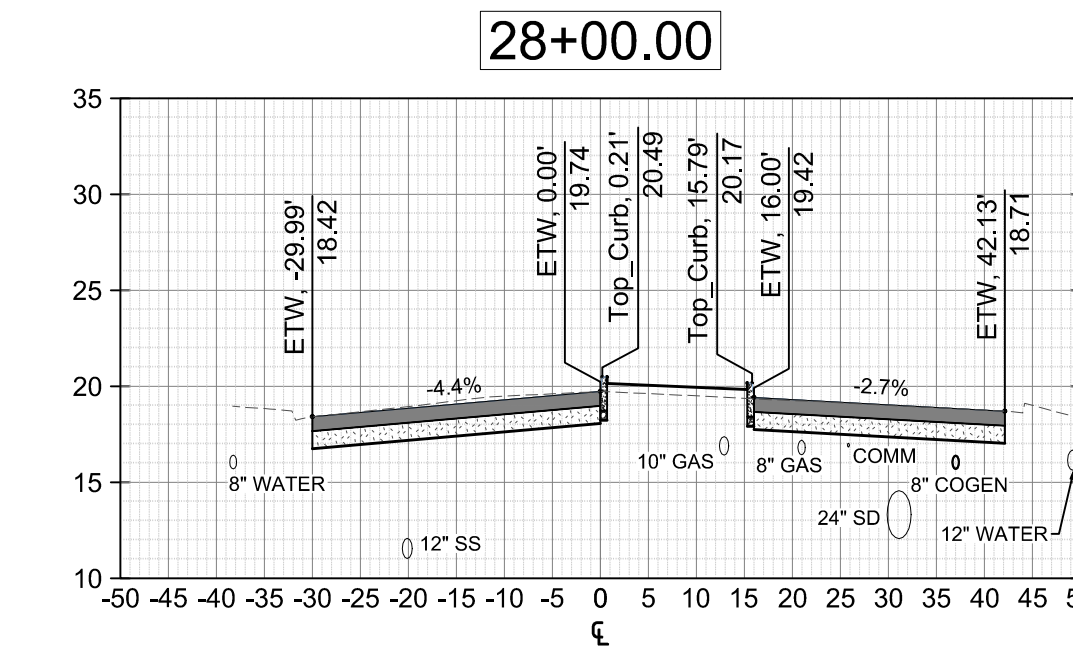
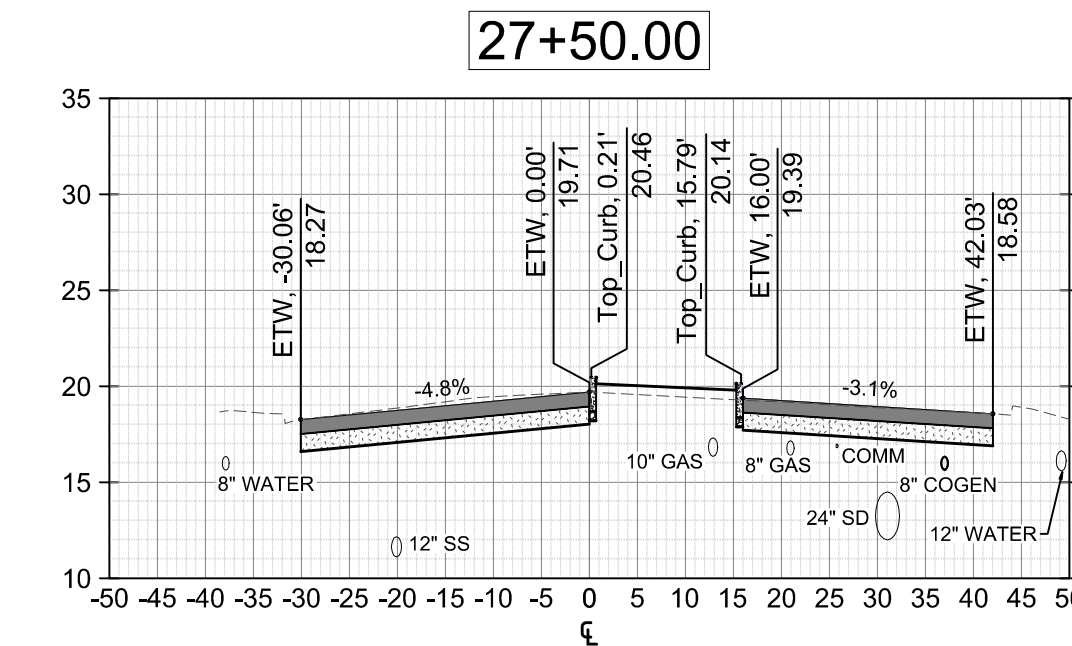
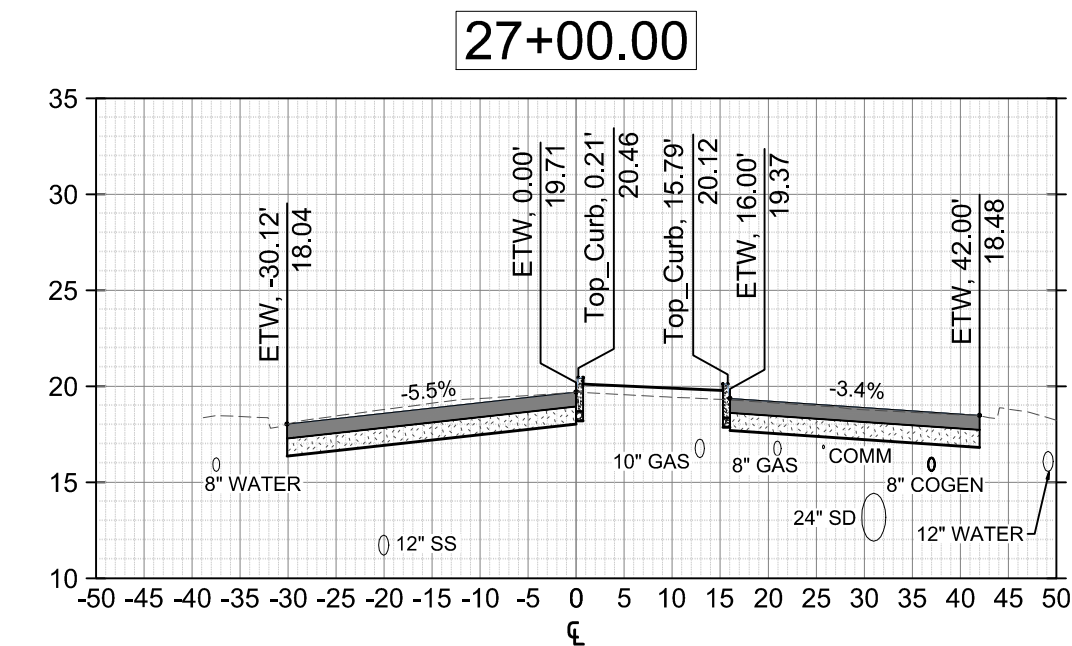
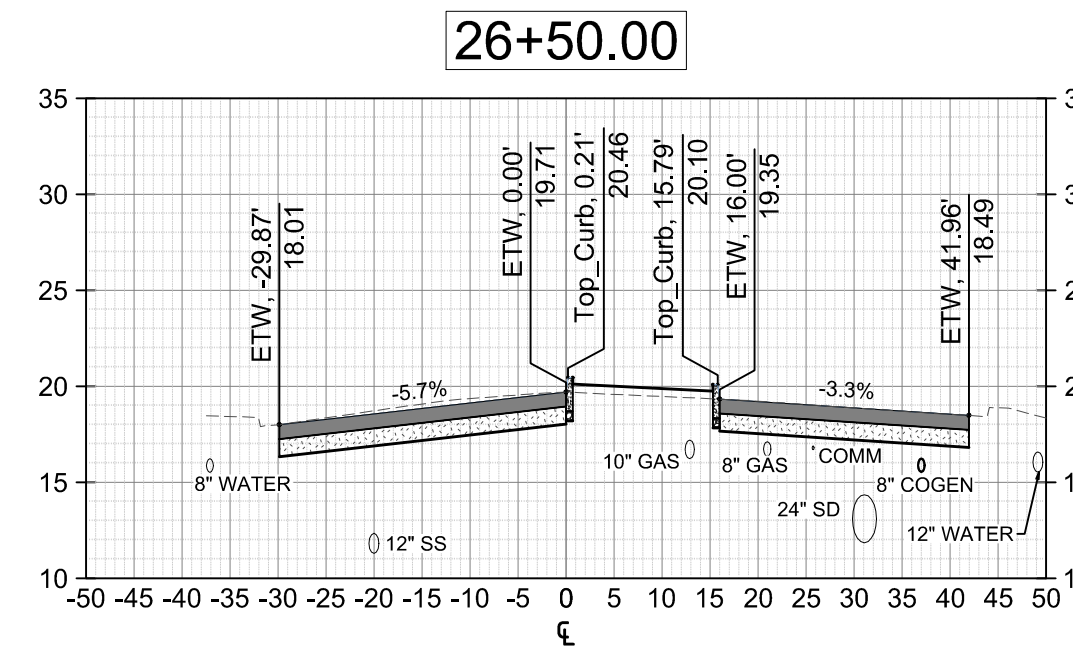
**CITY OF LATHROP**  
**LOUISE AVENUE PAVEMENT REHABILITATION PROJECT**  
**CROSS SECTIONS**  
**STA 16+50 - STA 26+00**



DRAWN BY:	JRE
PROJECT NUMBER:	200074
SCALE:	AS SHOWN
VERIFY SCALE	
BAR REPRESENTS	1" ON ORIGINAL
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SHEET NUMBER:	



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**CROSS SECTIONS**  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=10'

**BID ALTERNATE NOTES:**

1. MEDIANS SHOWN FROM STA 17+00 THRU 32+50 PER BID ALTERNATE 1
2. MEDIANS SHOWN FROM STA 34+00 THRU 50+00 PER BID ALTERNATE 2

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**CITY OF LATHROP**  
 LOUISE AVENUE PAVEMENT REHABILITATION PROJECT

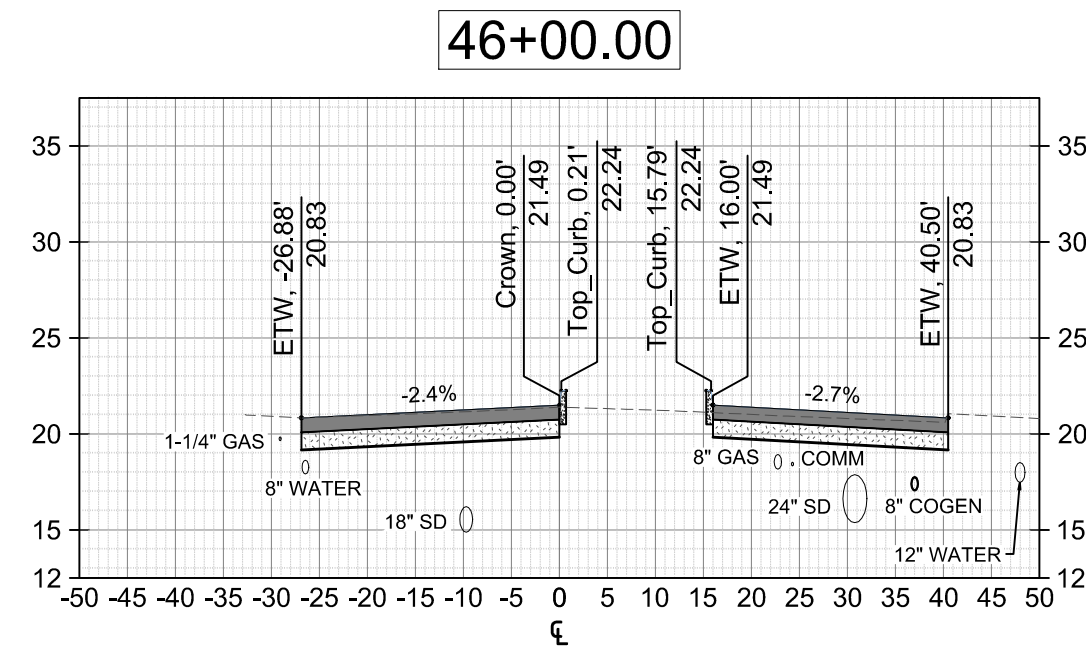
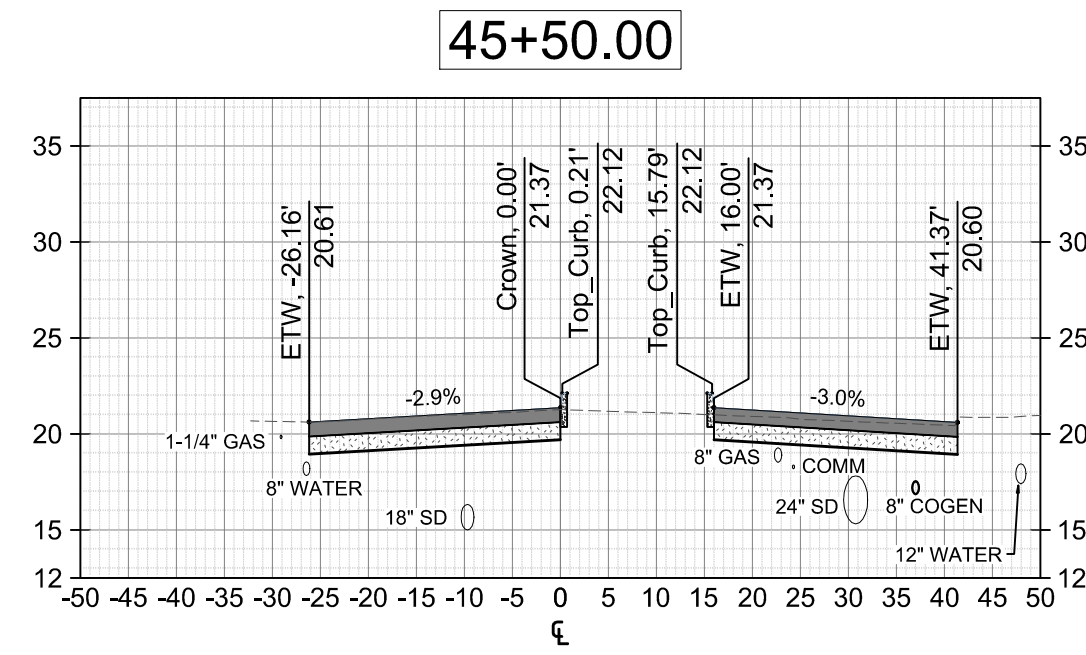
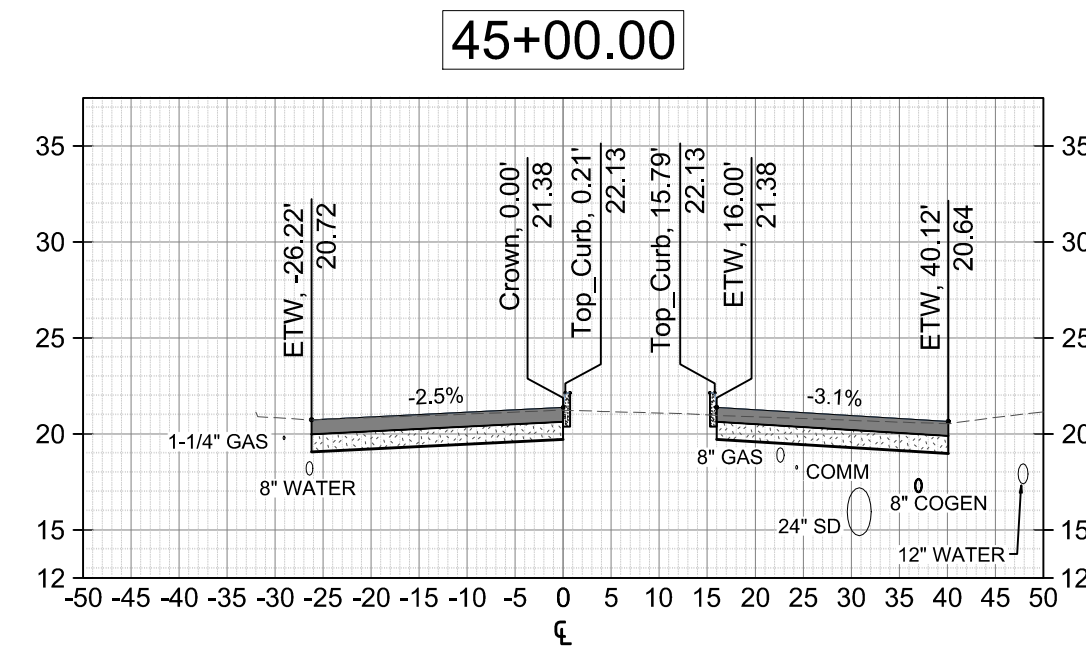
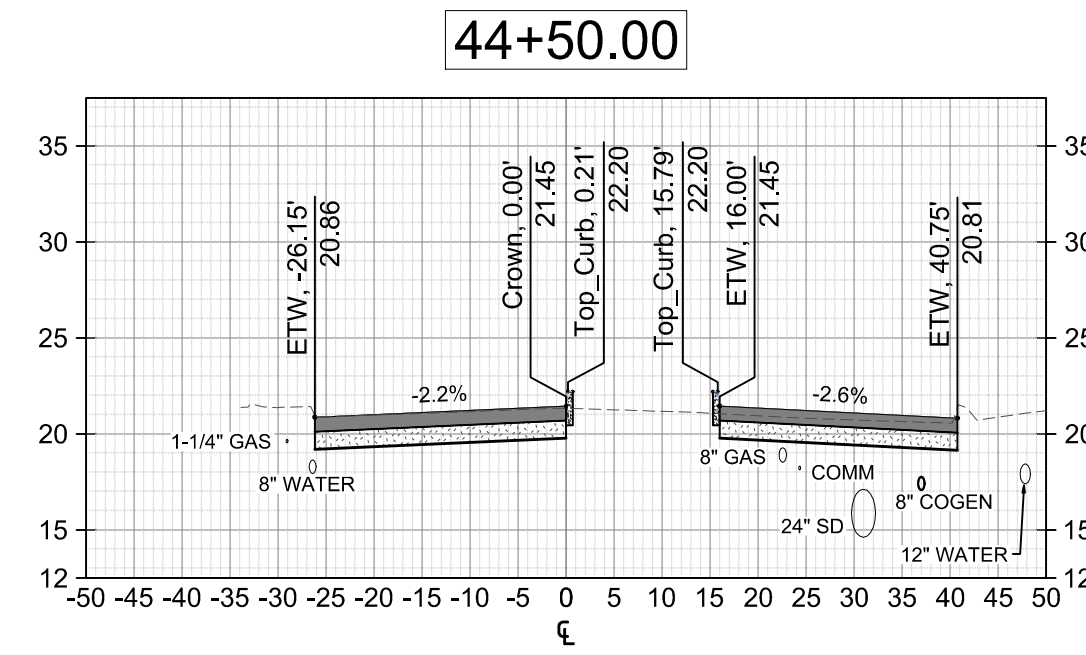
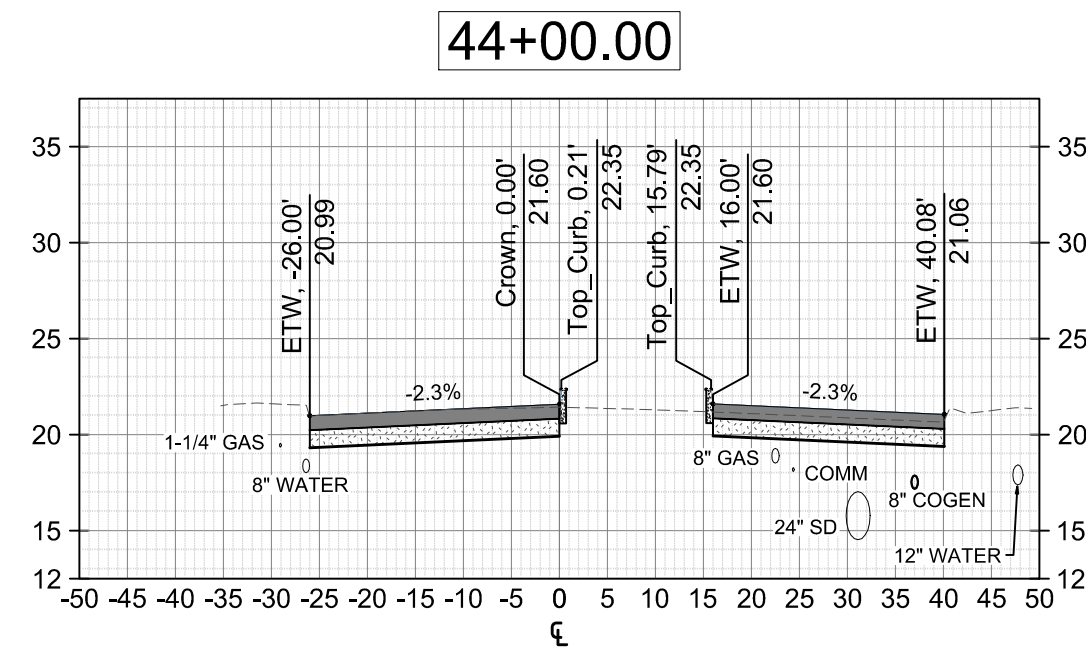
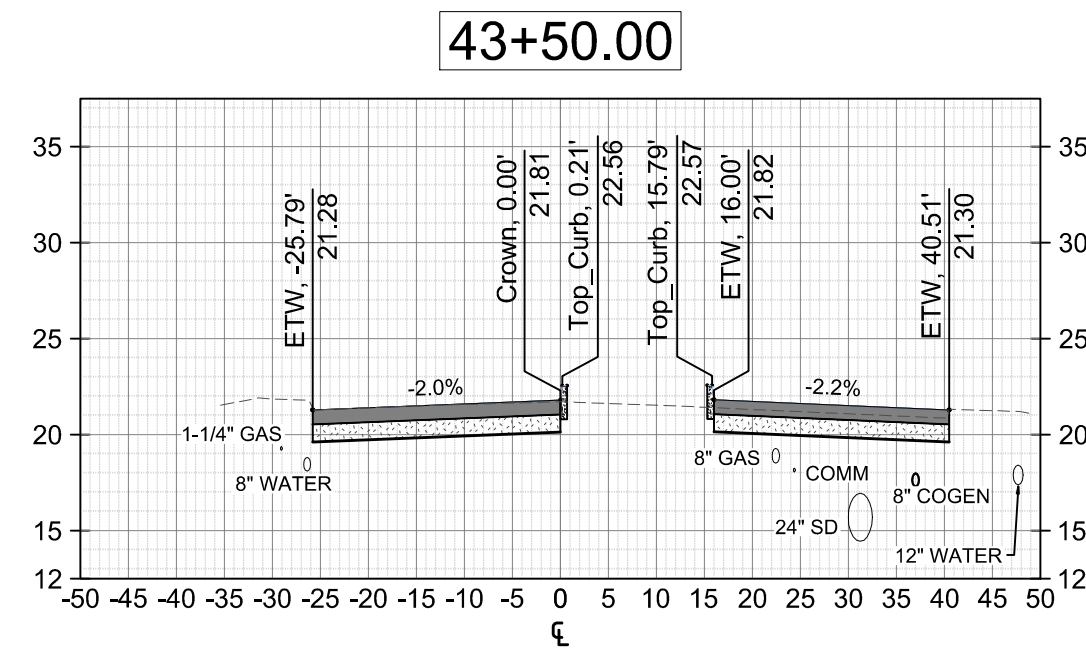
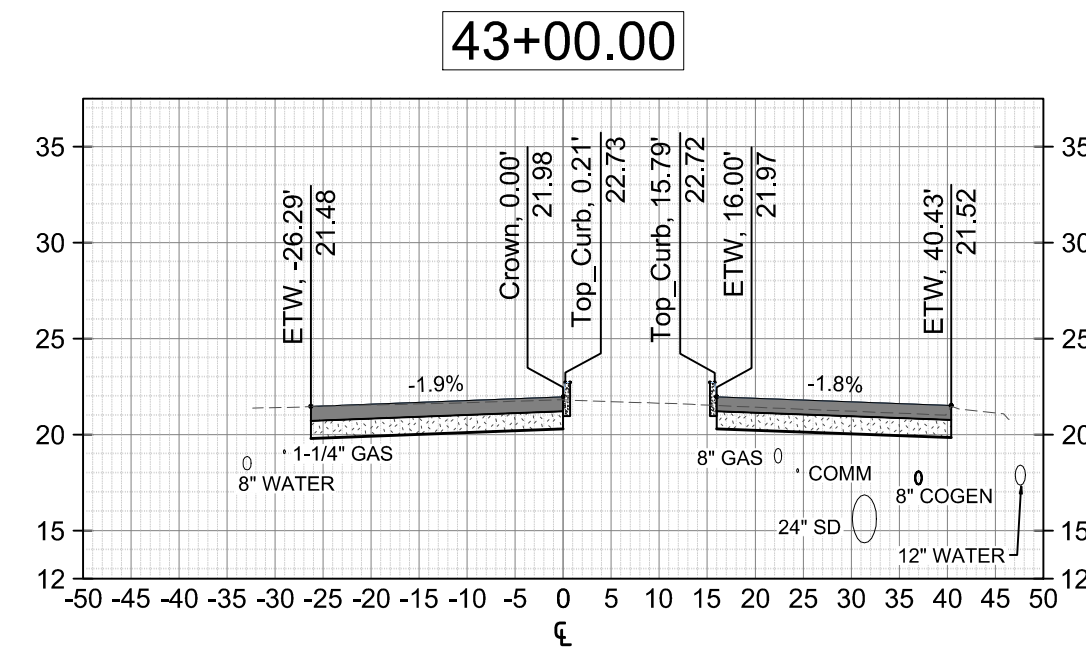
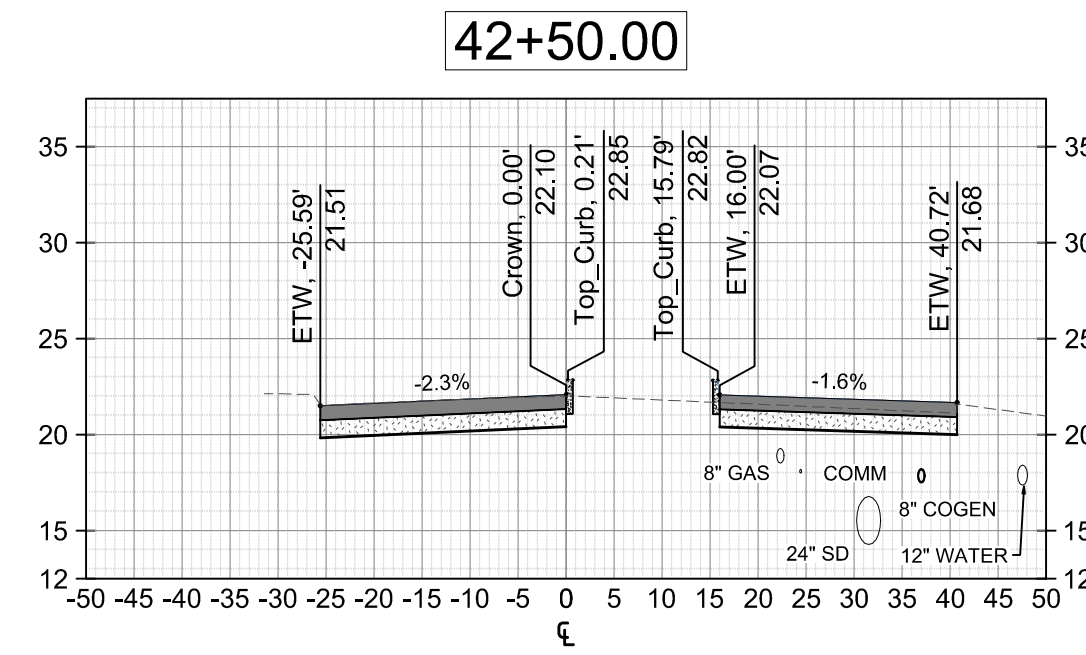
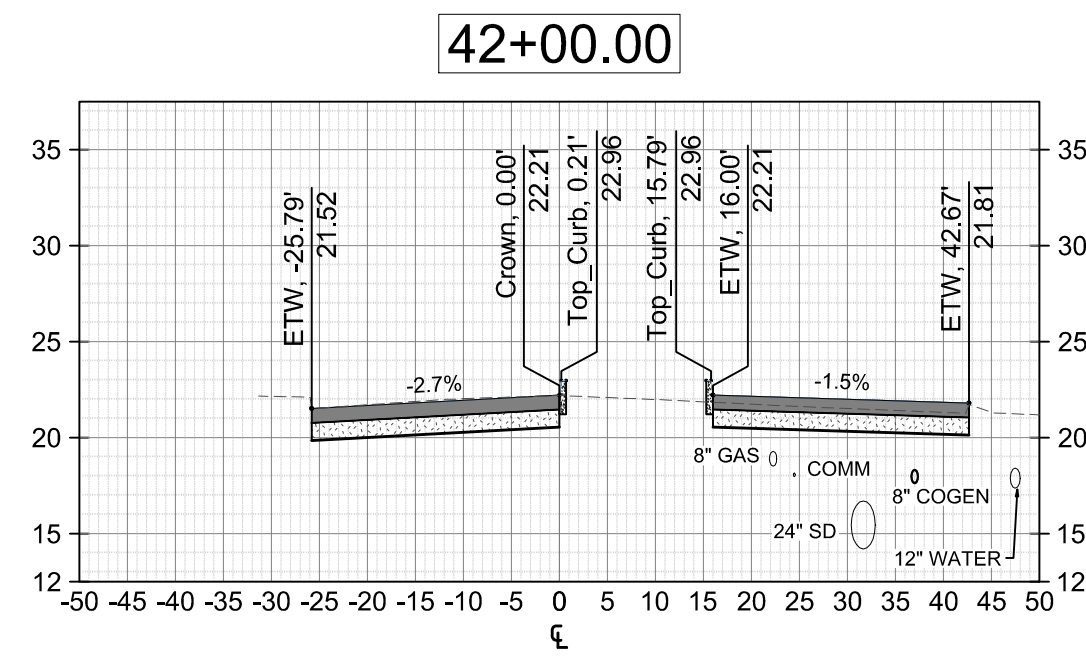
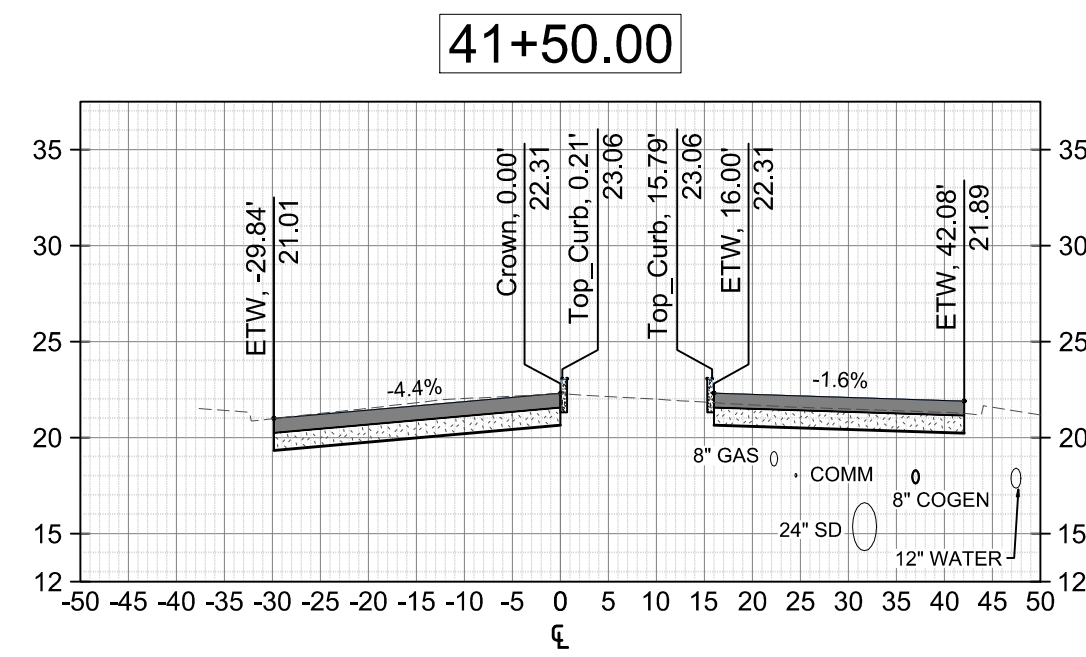
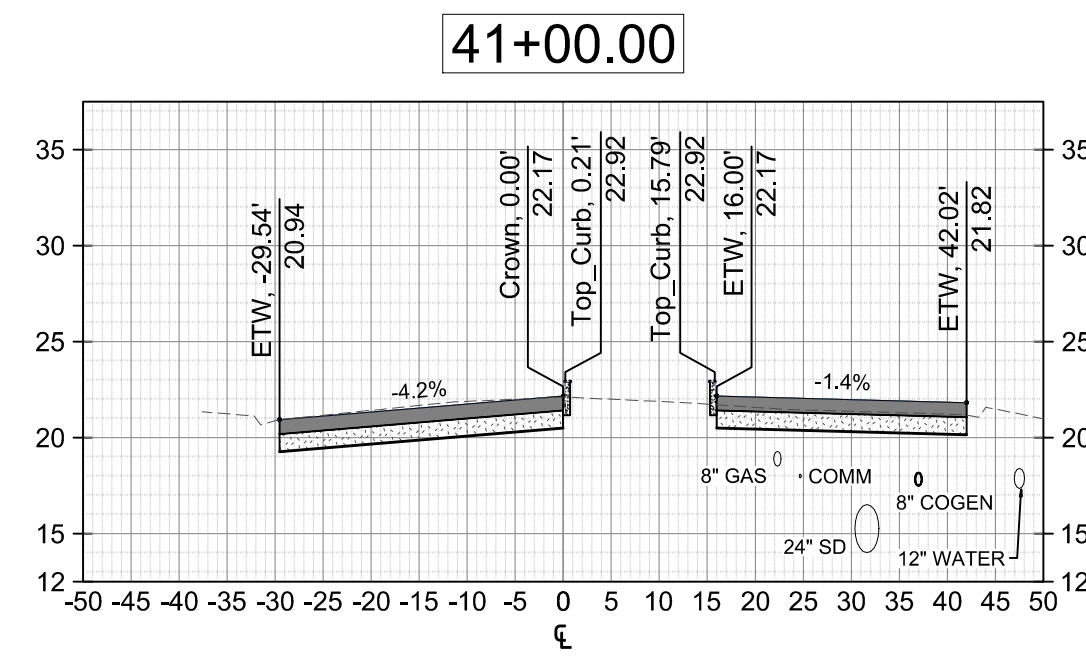
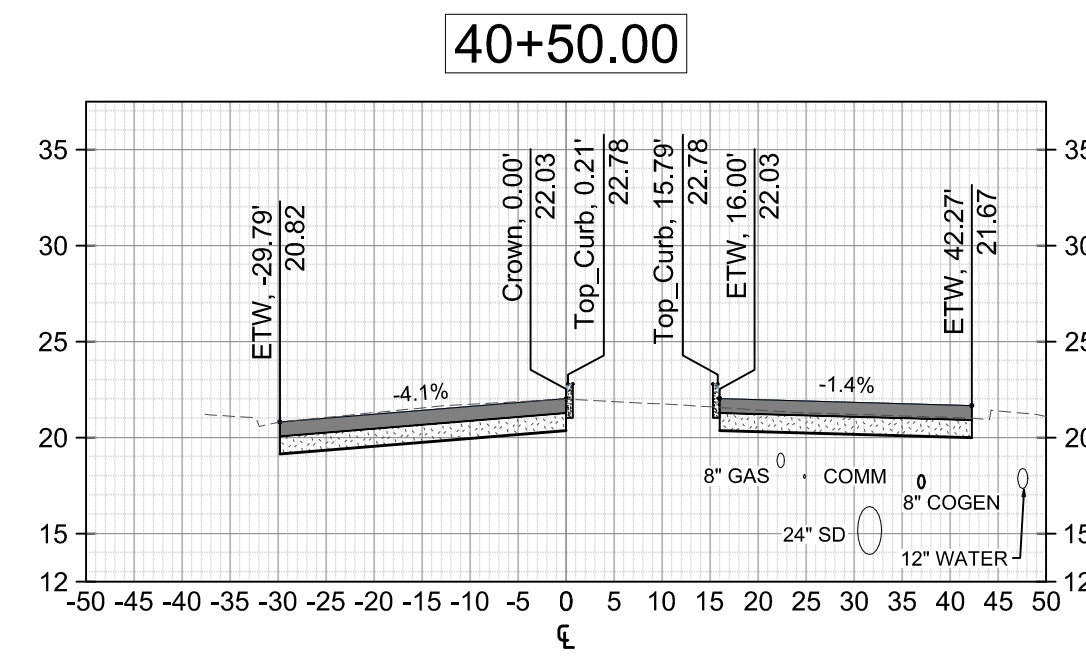
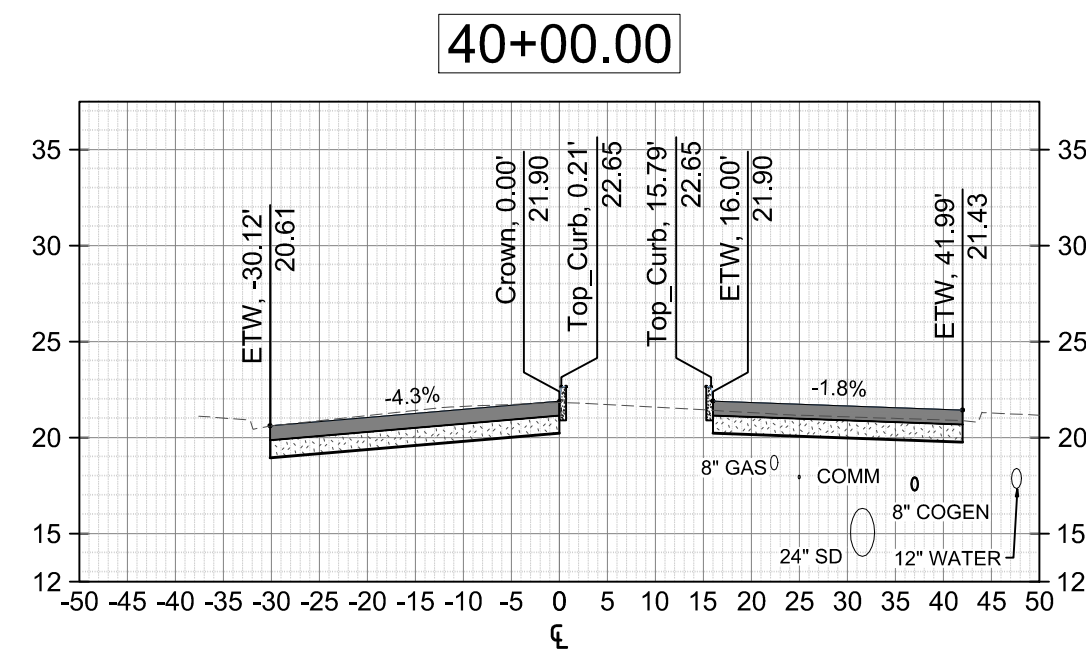
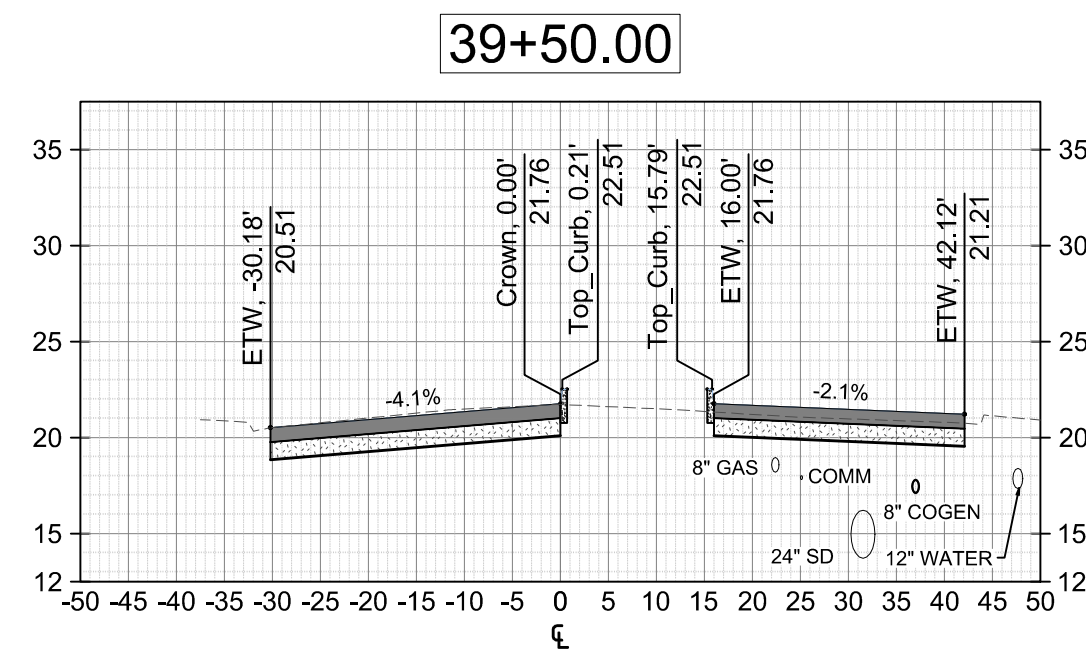
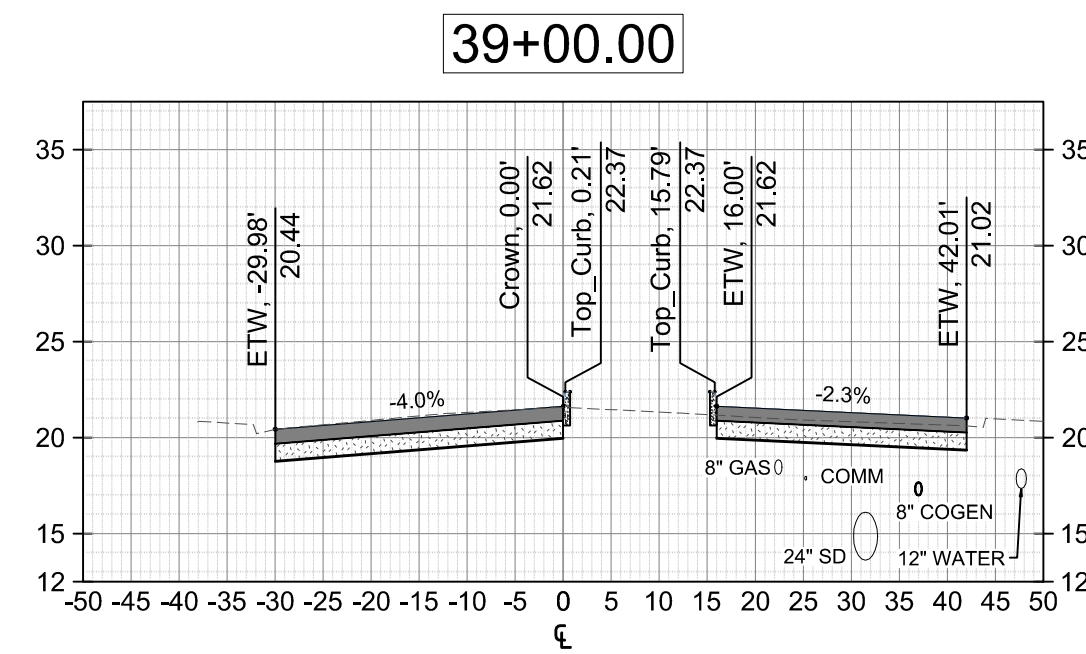
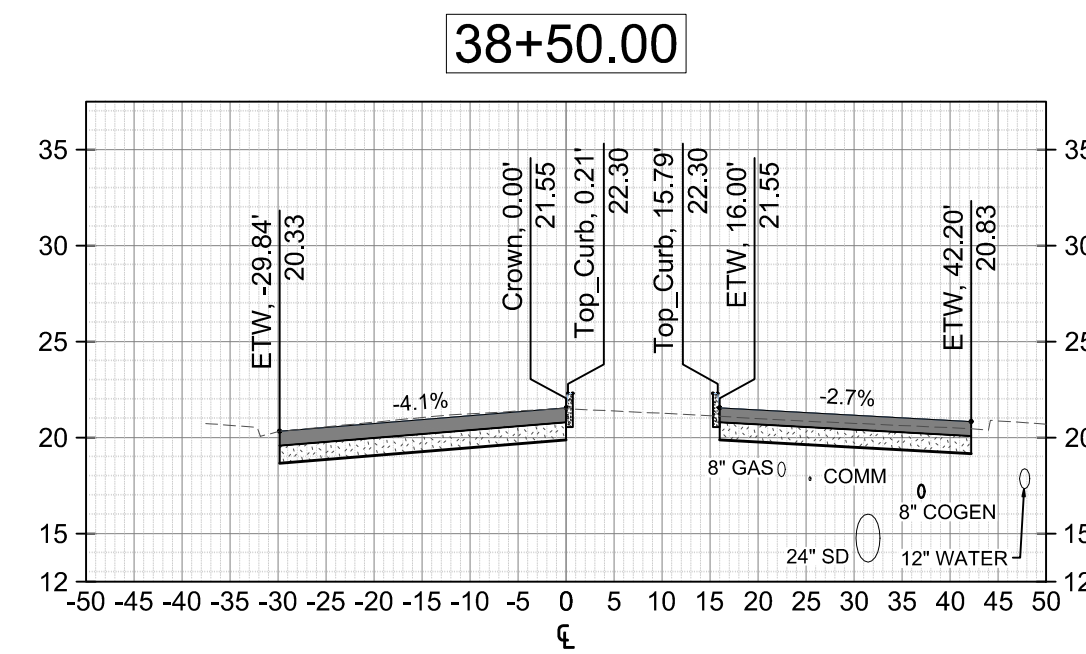
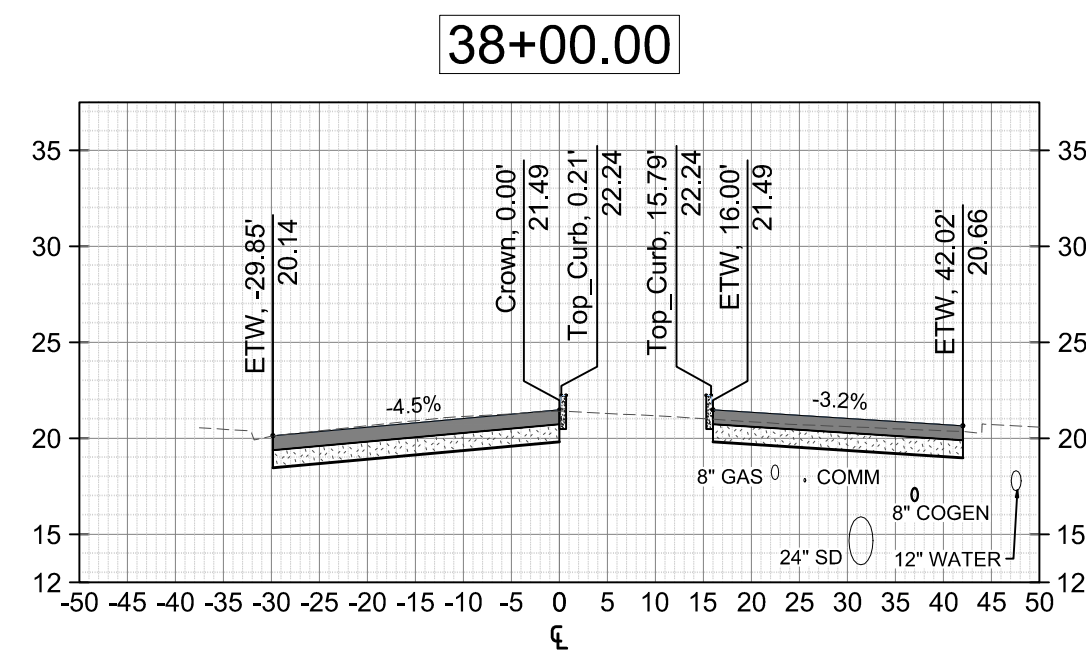
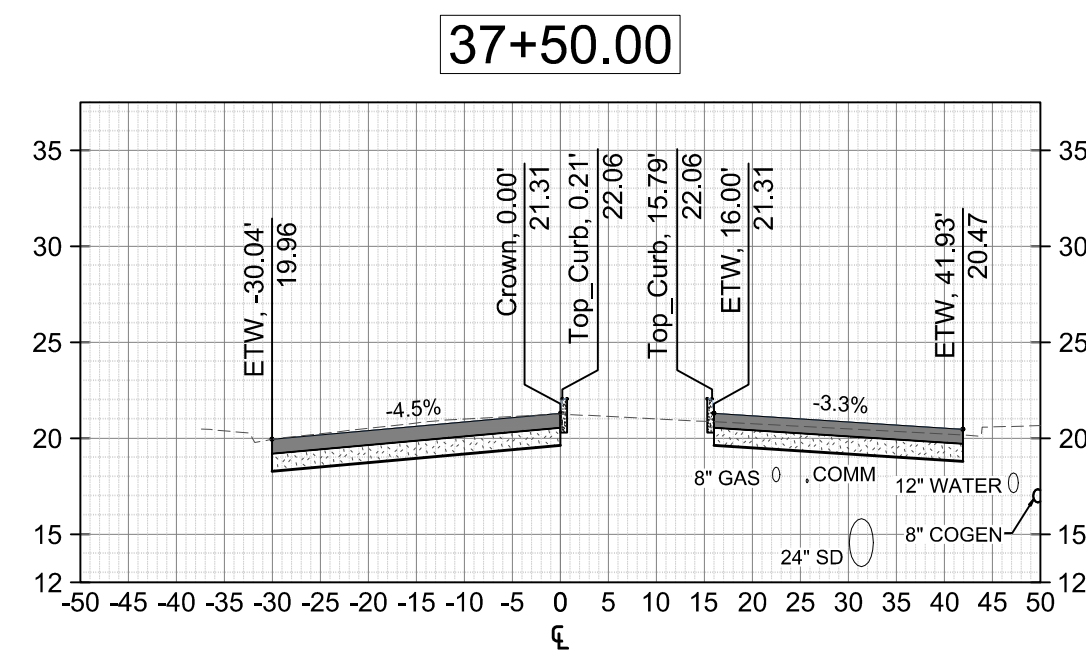
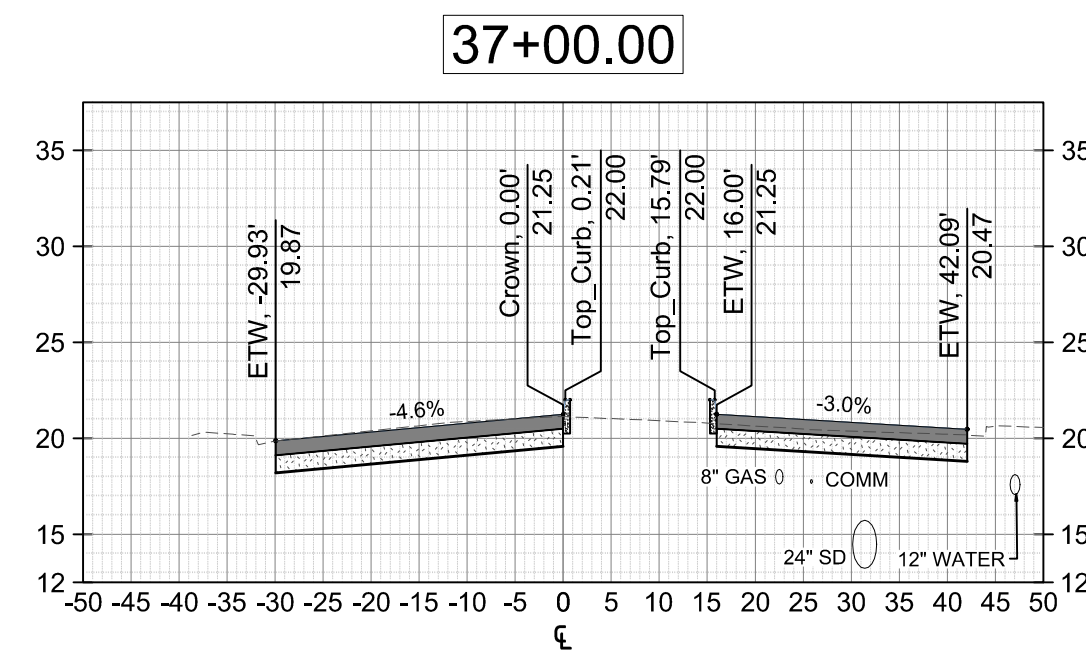
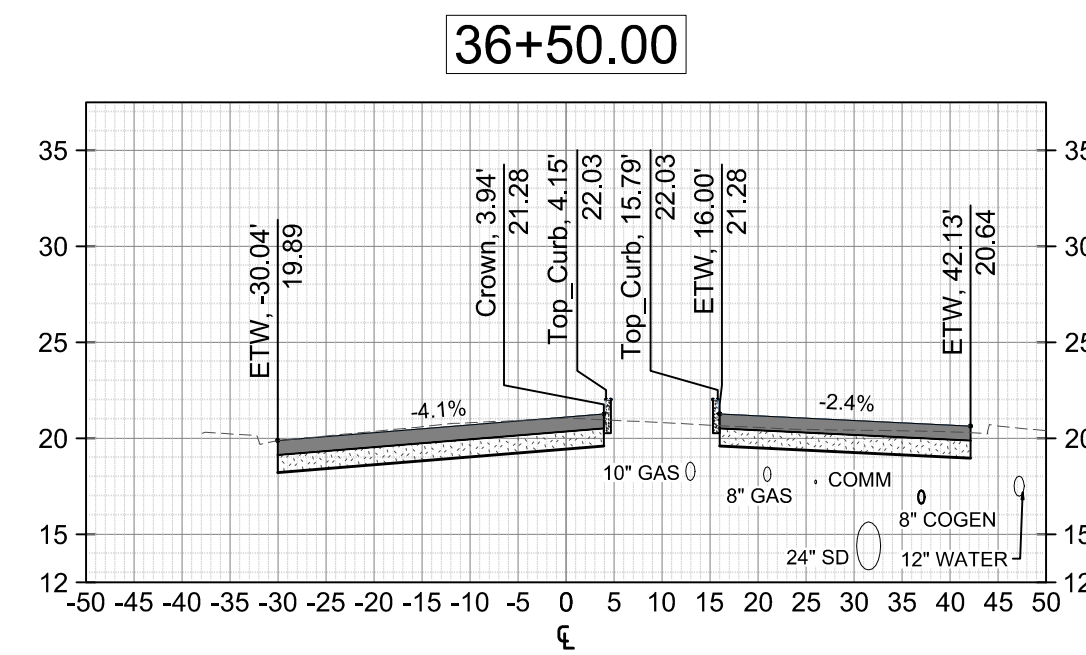
**CROSS SECTIONS**  
 STA 26+50 - STA 36+00



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SCALE:	AS SHOWN
VERIFY SCALE:	BAR REPRESENTS 1" ON ORIGINAL
DATE:	JULY 2020
SHEET NUMBER:	P10



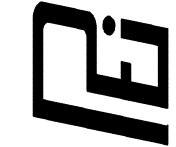
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**CROSS SECTIONS**  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=10'

**BID ALTERNATE NOTE:**  
 1. MEDIANS SHOWN FROM STA 34+00 THRU 50+00 PER BID ALTERNATE 2

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**CITY OF LATHROP**  
**LOUISE AVENUE PAVEMENT REHABILITATION PROJECT**

**CROSS SECTIONS**  
**STA 36+50 - STA 46+00**

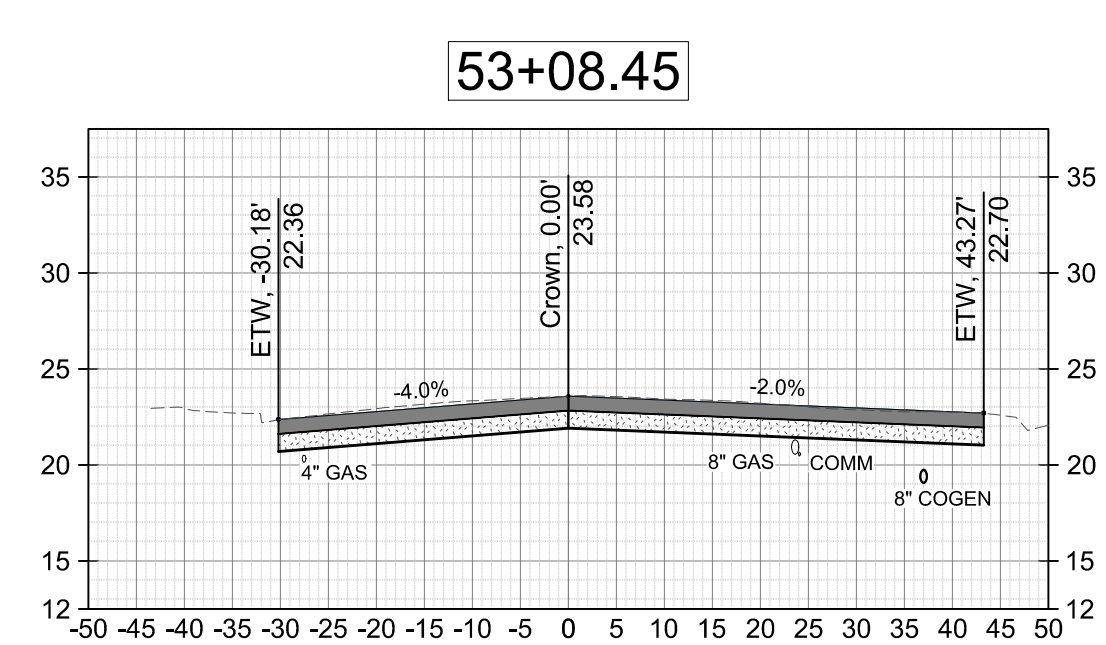
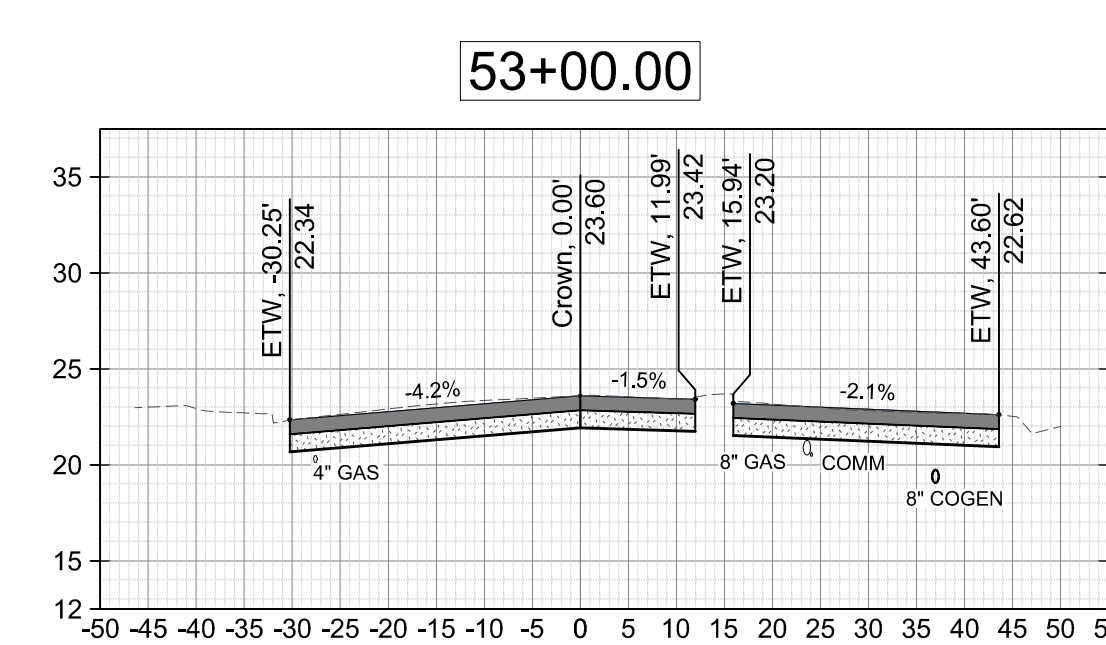
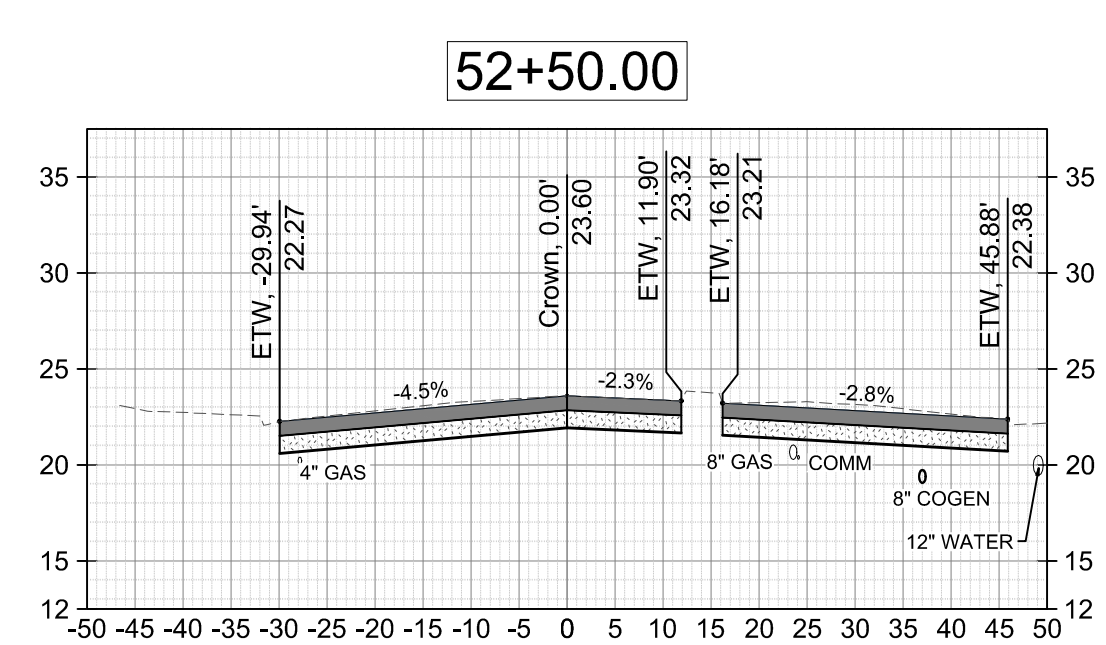
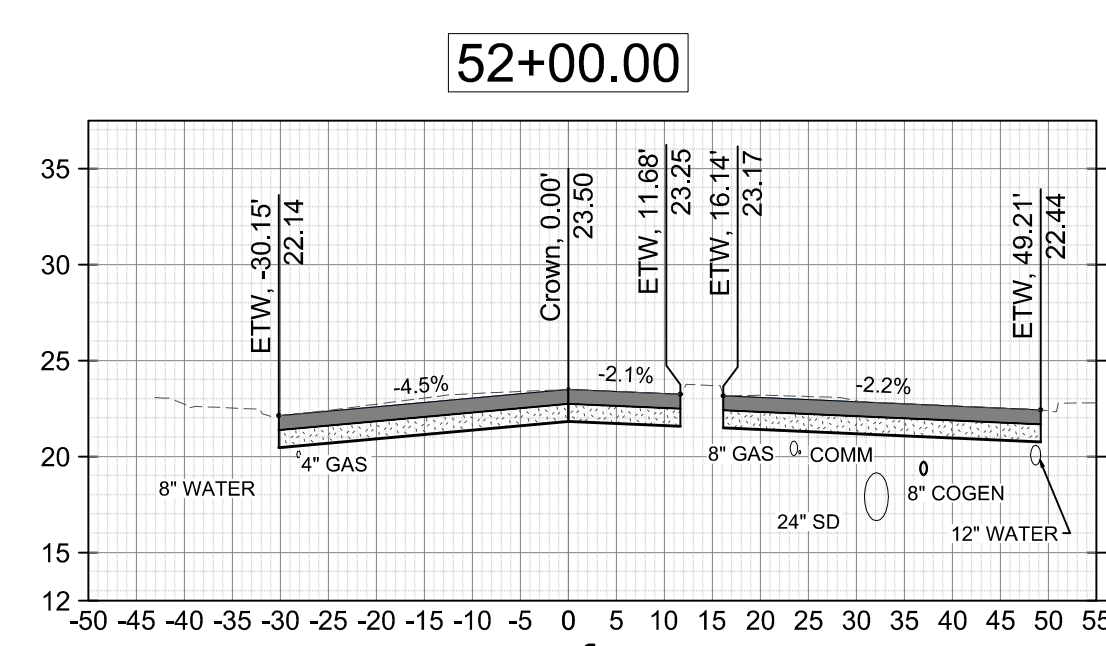
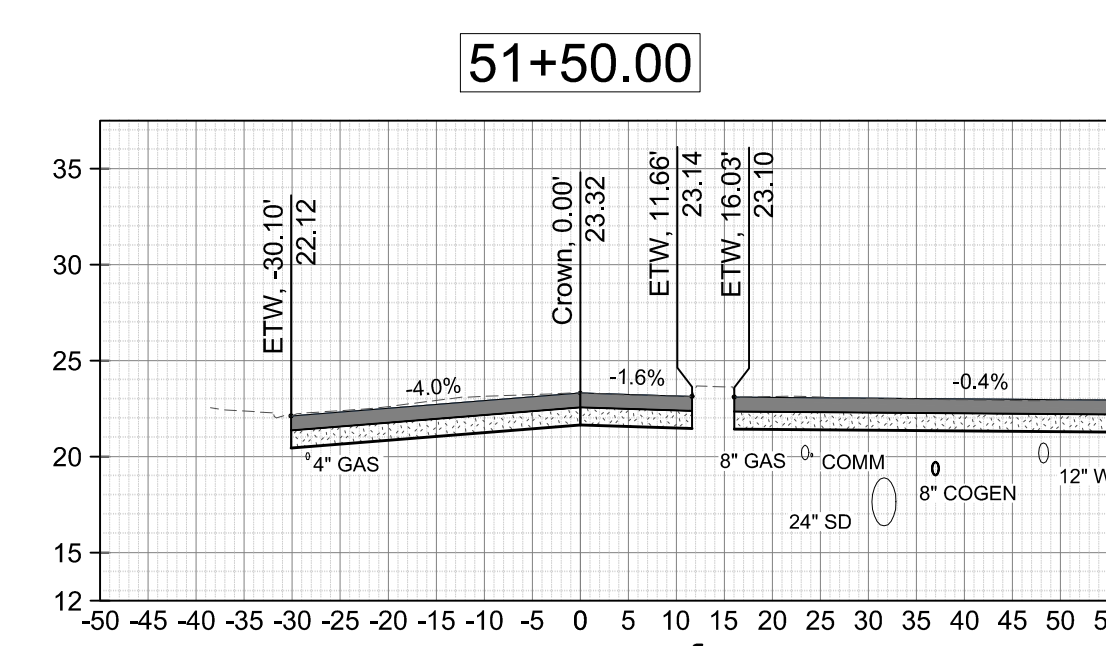
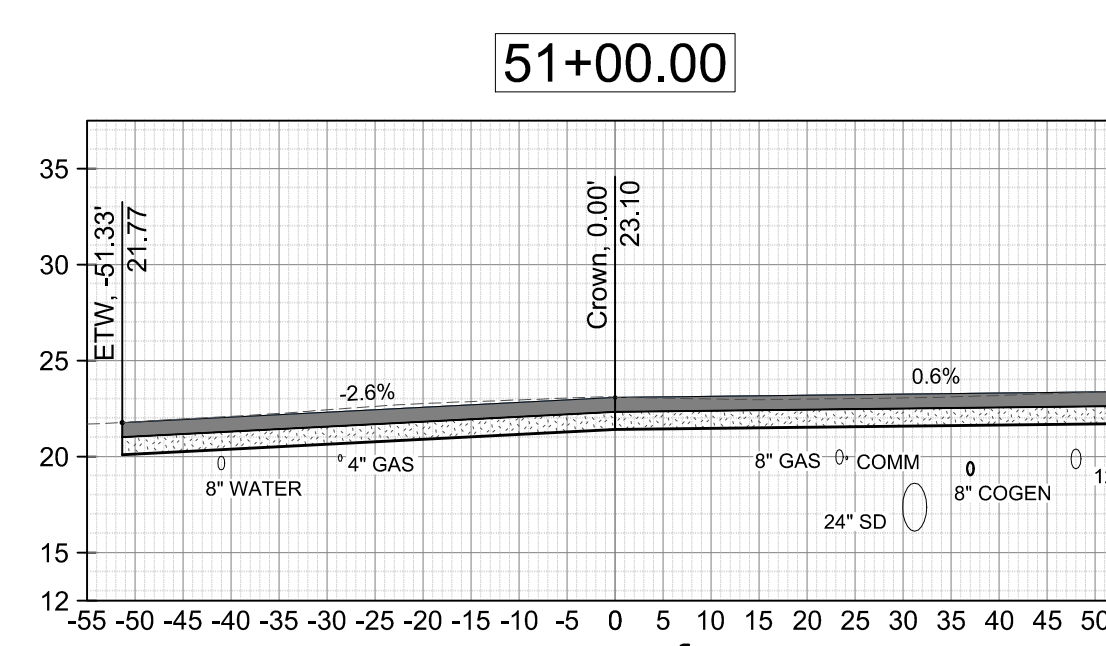
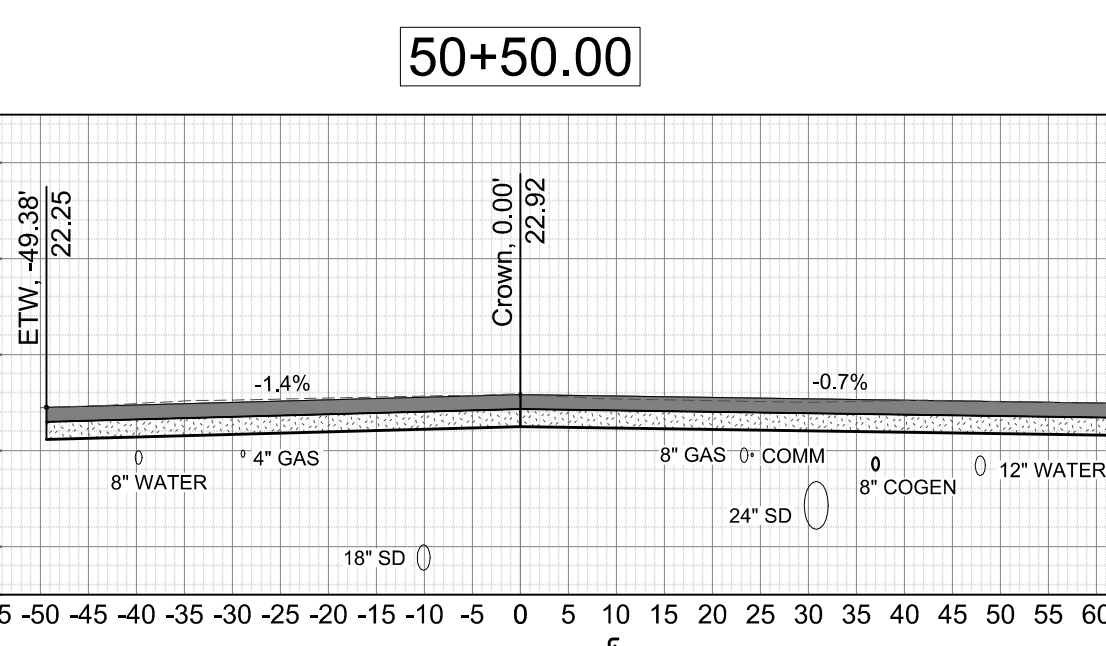
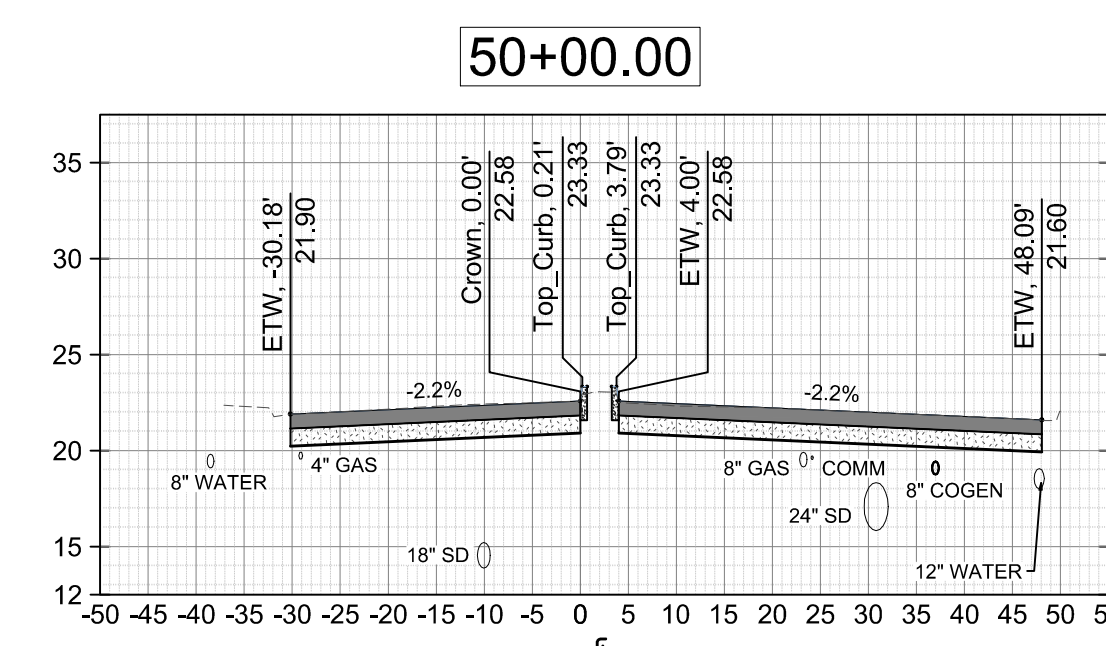
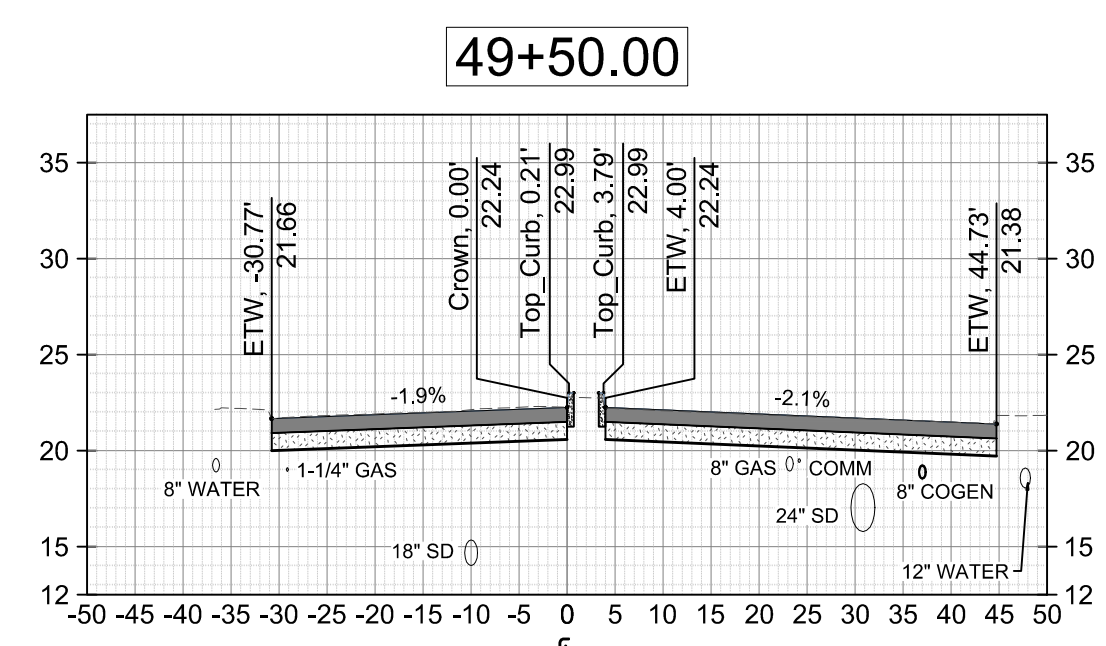
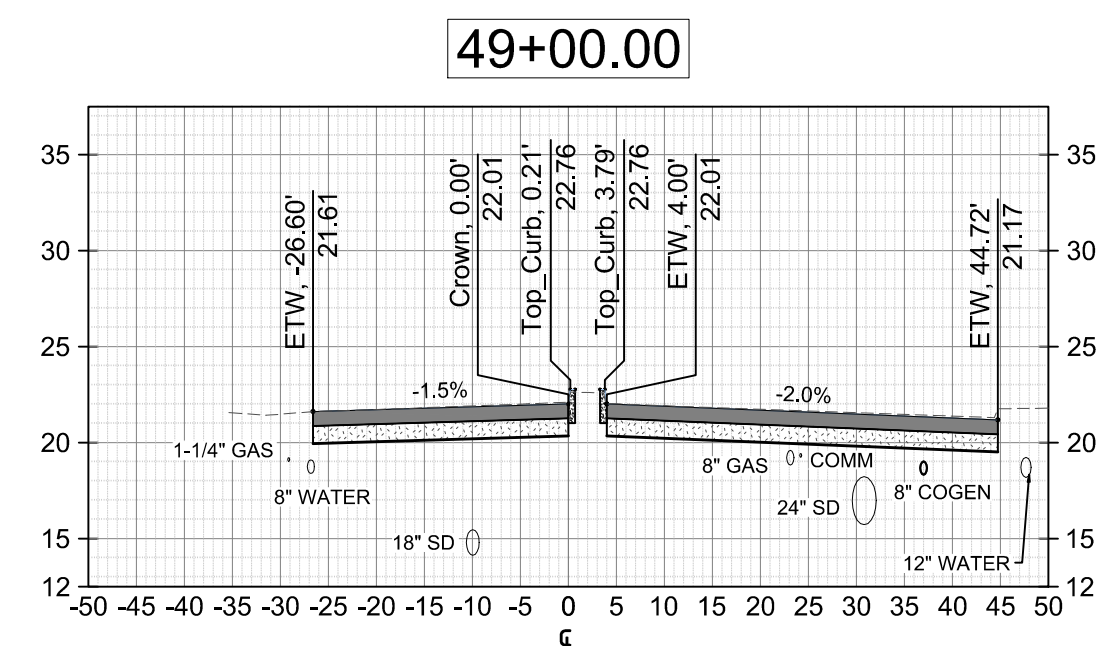
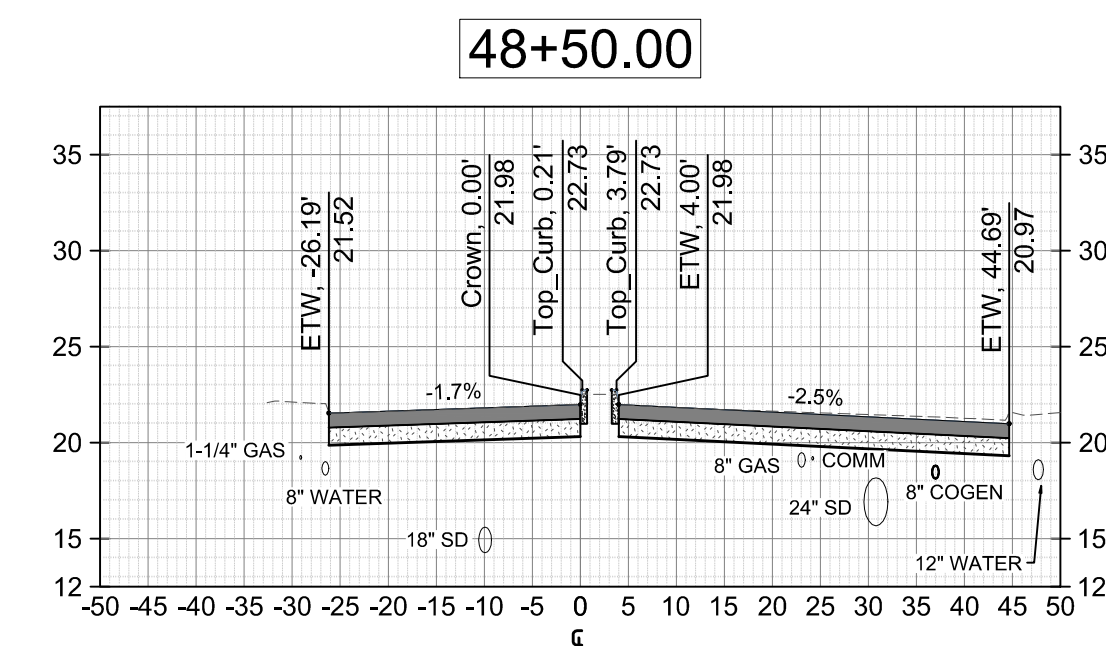
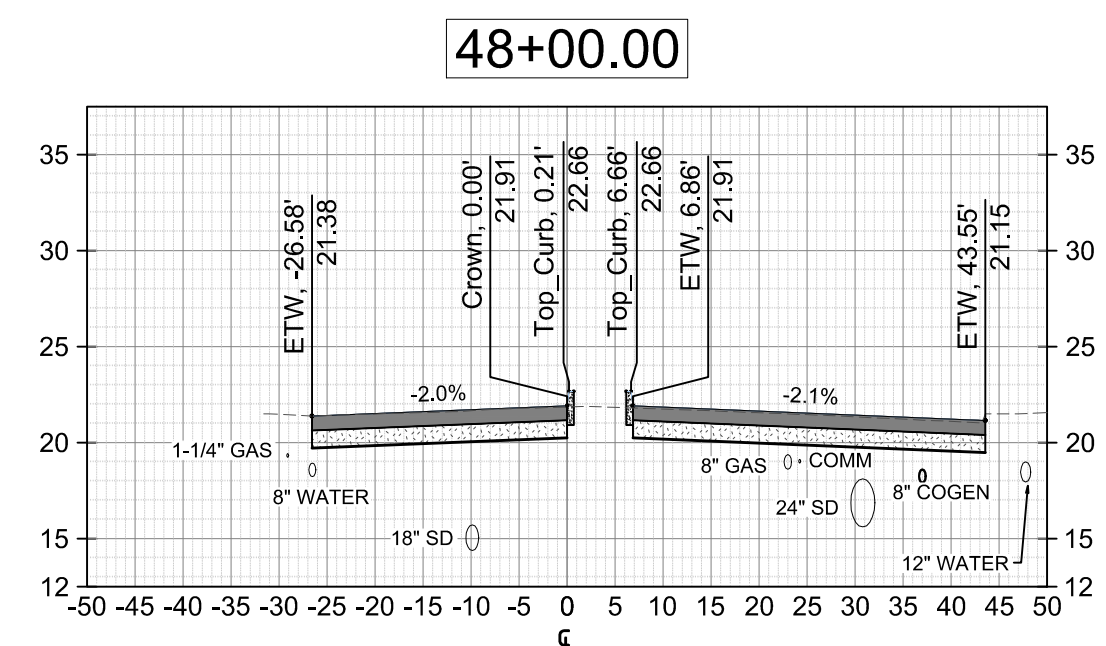
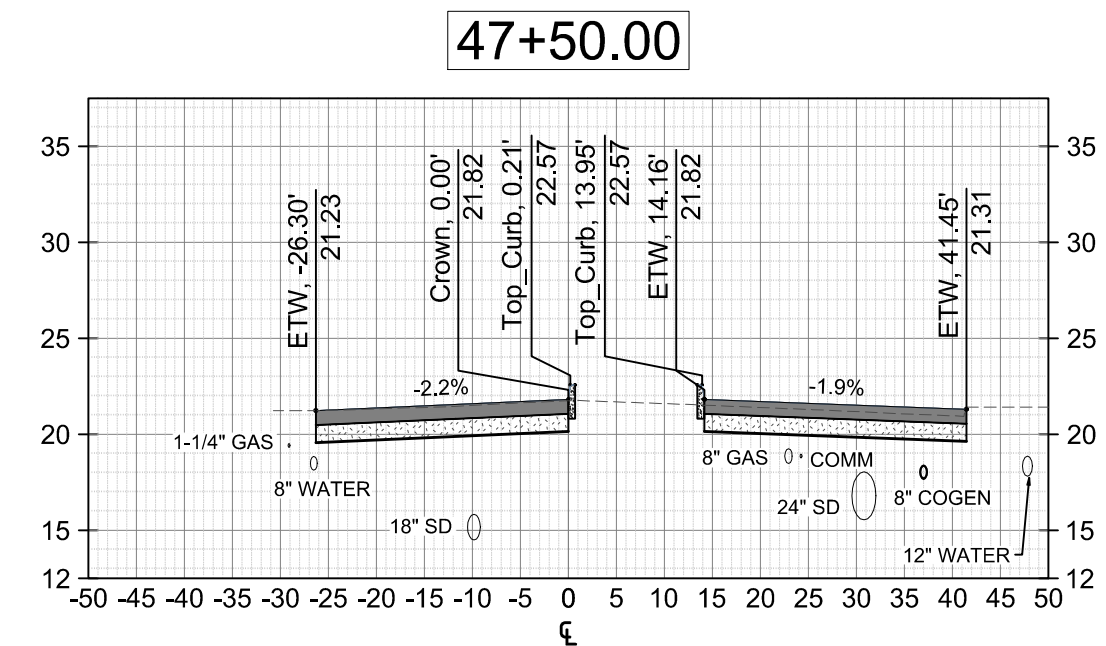
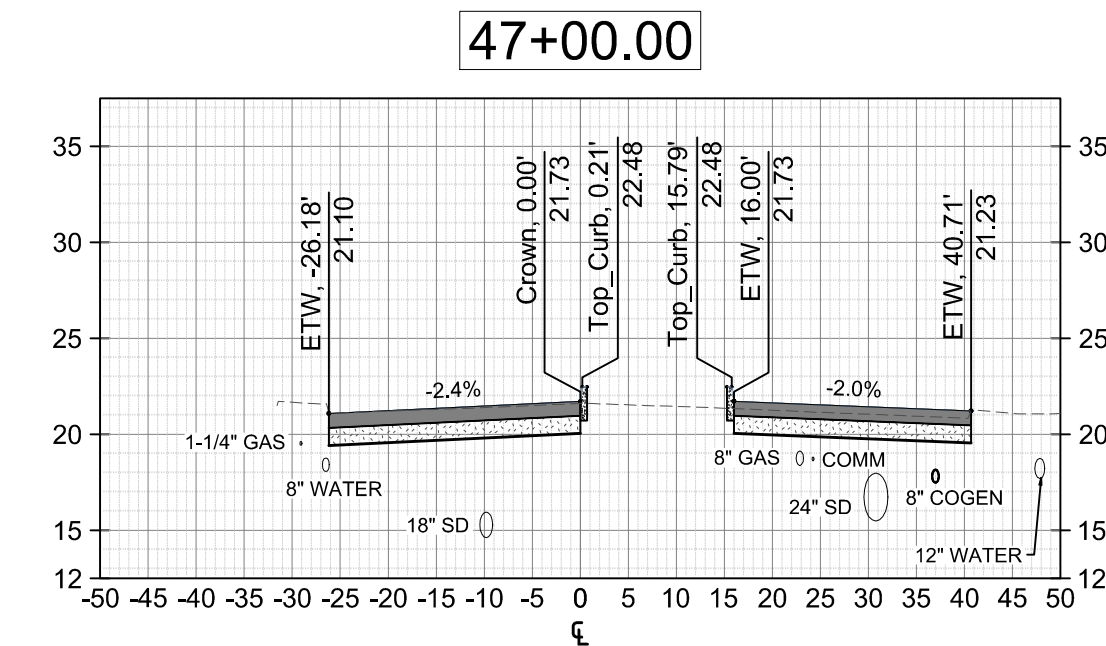
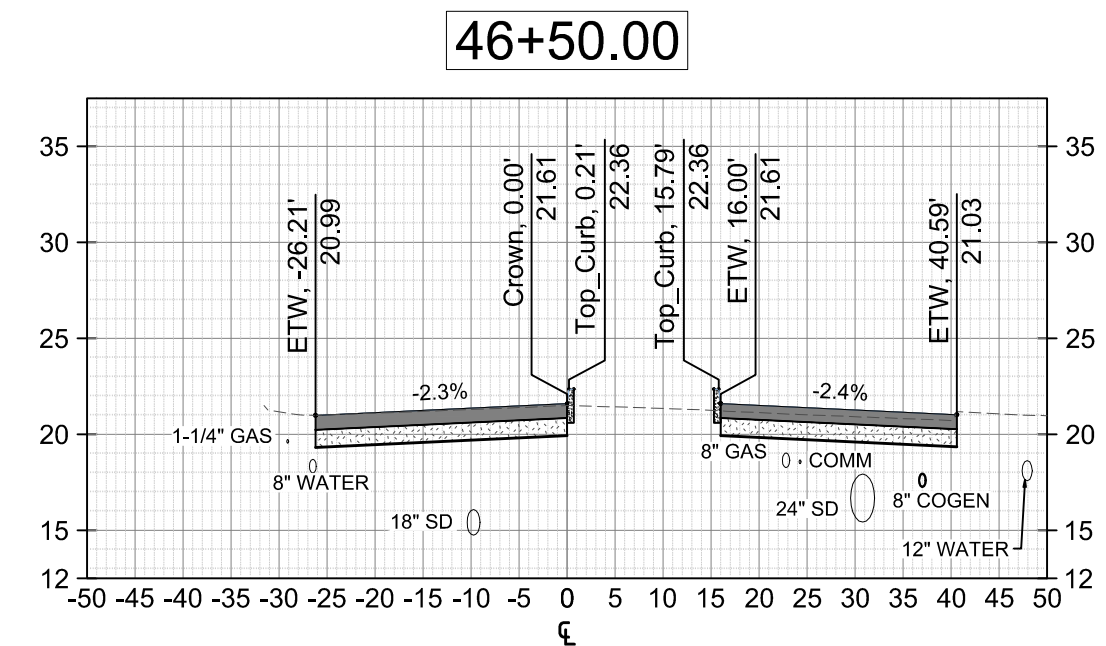


DRAWN BY: **JRE**  
 PROJECT NUMBER: **200074**  
 SCALE: **AS SHOWN**  
 VERIFY SCALE  
 BAR REPRESENTS  
 1" ON ORIGINAL  
 DATE: **JULY 2020**  
 SHEET NUMBER:

**P11**



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**CROSS SECTIONS**  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=10'

**BID ALTERNATE NOTE:**  
 1. MEDIANS SHOWN FROM STA 34+00 THRU 50+00 PER BID ALTERNATE 2

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**CITY OF LATHROP**

**LOUISE AVENUE PAVEMENT REHABILITATION PROJECT**

**CROSS SECTIONS**  
**STA 46+50 - STA 53+08.45**



DRAWN BY:	JRE
PROJECT NUMBER:	200074
SCALE:	AS SHOWN
VERIFY SCALE	
BAR REPRESENTS	1" ON ORIGINAL
DATE:	JULY 2020
SHEET NUMBER:	P12

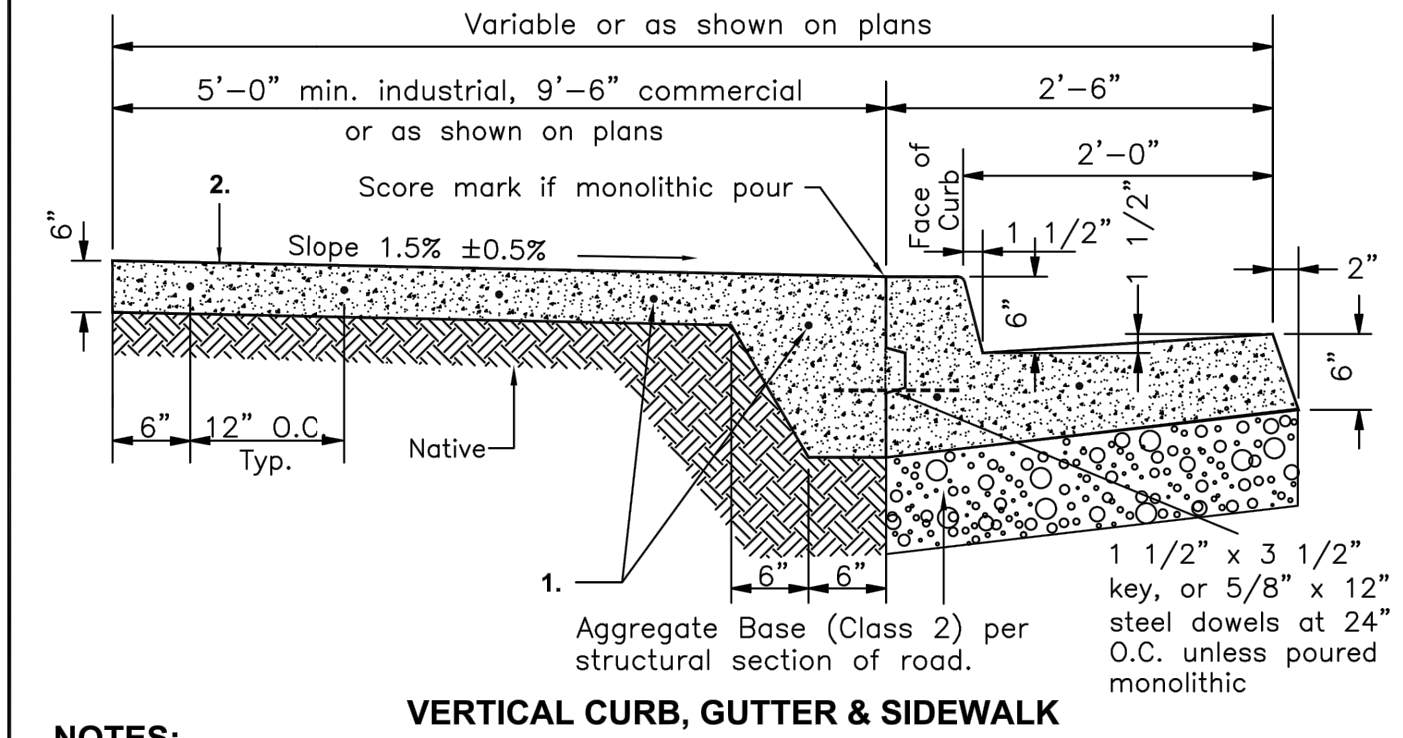
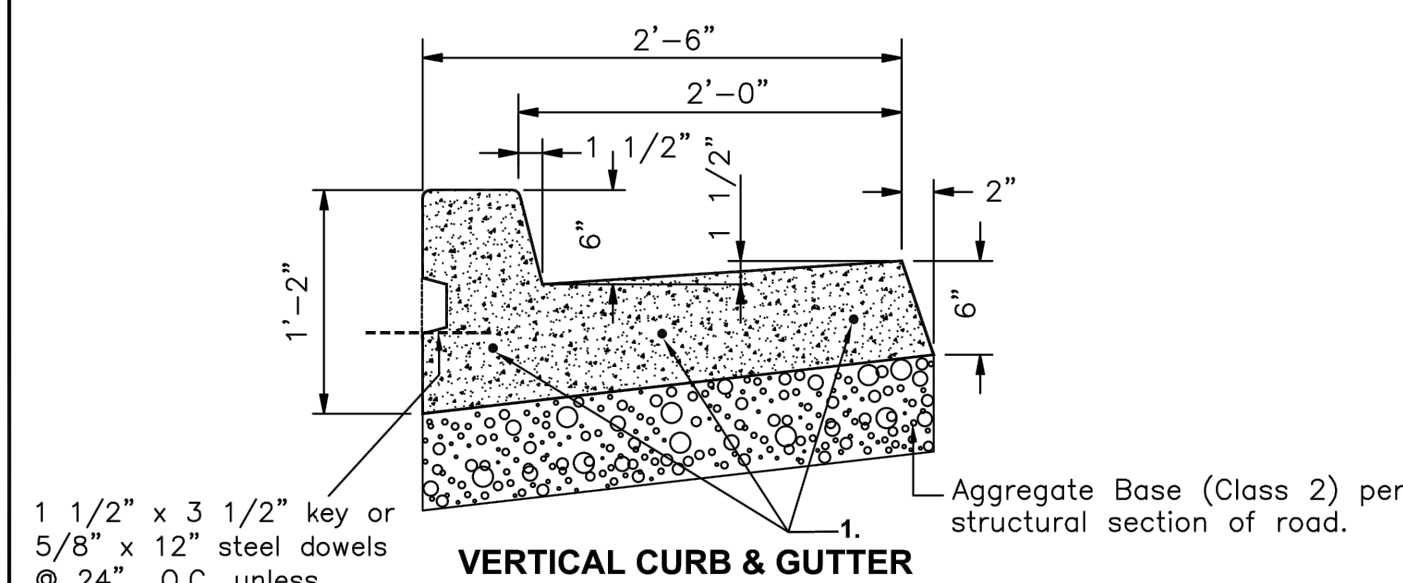


**CONCRETE CONSTRUCTION NOTES**  
(Typical for Standard Details No. R-5 to R-14)

- Curb, gutter and sidewalk construction shall conform to Section 73, Standard Specifications, California Department of Transportation (Caltrans), except as modified herein.
- Reference is made to the City of Lathrop, design guidelines for additional requirements relating to the construction of concrete curb, gutter, and sidewalk.
- The top 6 inches of subgrade shall be compacted to a minimum relative compaction of 90% per ASTM D1557 for curb, gutter, sidewalks and residential driveways and 95% for commercial and industrial driveways.
- All radii for rounding edges shall be 3/4" unless noted.
- Concrete shall be Class A, 6 sack minimum and provide 2500 psi strength at 28 days. Add 1 lb. lamp black per cubic yard for all flat work including monolithic sidewalk. Adjust quantity of lamp black to match adjacent concrete for repair of existing sidewalk.
- Concrete shall have a maximum 4" slump at placing site.
- Expansion joints and weakened plane joints shall be installed as indicated on plans or standard details. Construct 1/2" expansion joints at 40' maximum intervals, at ends of curb returns, at both ends of driveway, around light poles, hydrants and other fixed objects in sidewalk. Transverse weakened plane joints shall be constructed at 10' maximum intervals.
- Curb, gutter and sidewalk shall have a light broom finish; curb and gutter parallel to the flowline. Sidewalks perpendicular to the flowline.
- Depress the 2" high letters "I", "W", "RW", "S", "NPW" and "LFL" 1/4" deep into the top of the curb to identify service locations.
- During construction of gutters, water shall be used to insure proper drainage along the flowline.
- All concrete shall have an impervious membrane curing compound.
- In heavy clay soils, or within 8' of any concrete structure, root barrier shall be installed between concrete structures and landscaping areas 5' each way from tree, 24" deep.
- For new sidewalks less than 5' wide and equal to or greater than 200' in length, 5'x5' ADA passing spaces must be provided at 200' intervals within the public RW.

NOT TO SCALE

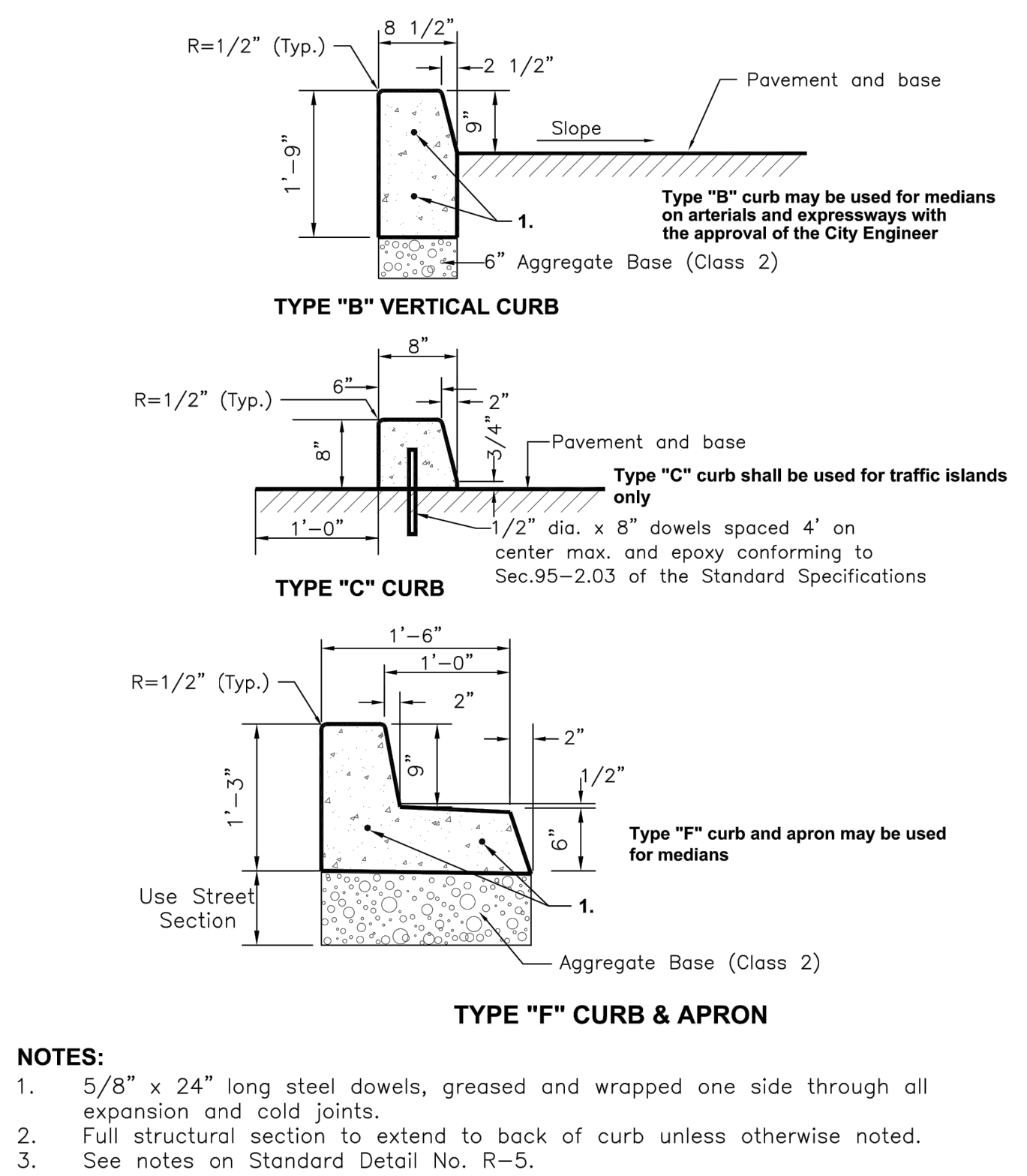
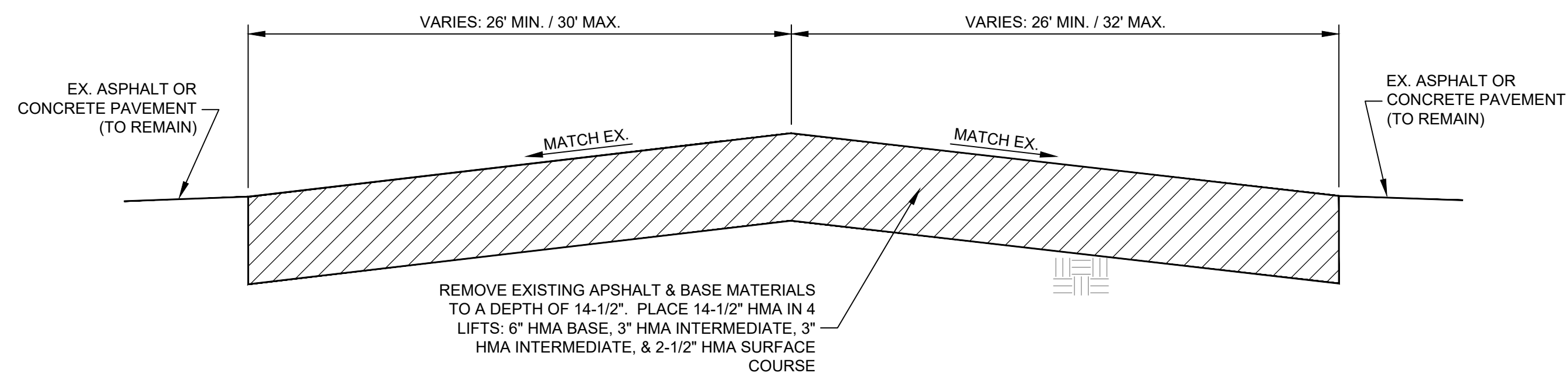
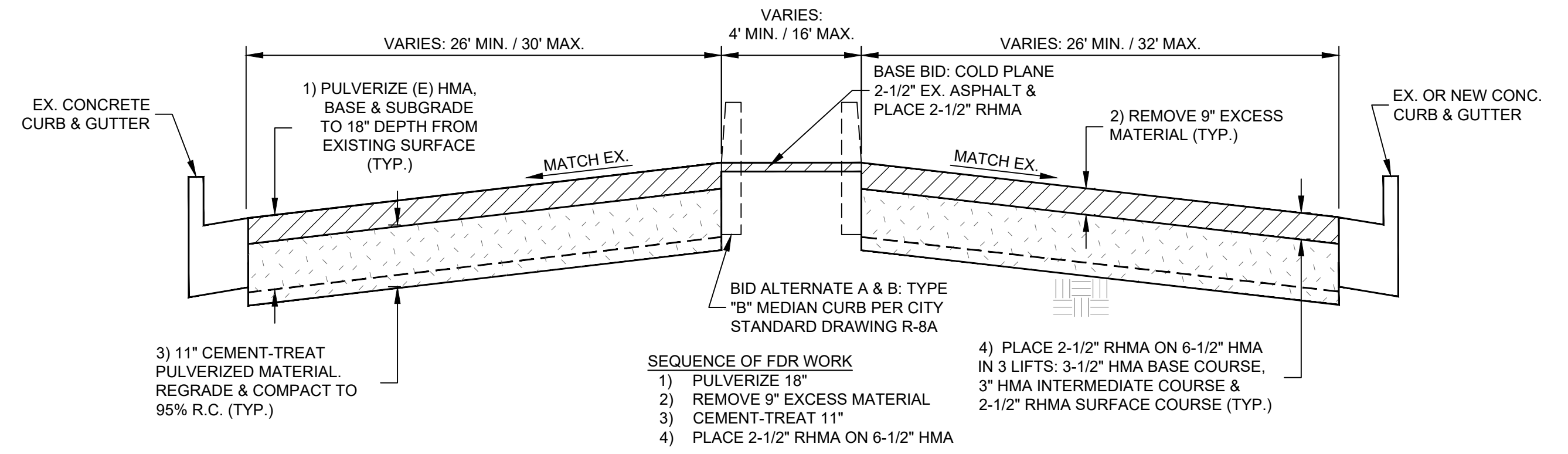
Approved by: <i>Wm Schmitt</i> City of Lathrop City Engineer	<b>CITY OF LATHROP</b> DEPARTMENT OF PUBLIC WORKS <b>CONCRETE CURB, GUTTER AND SIDEWALK CONSTRUCTION SPECIFICATIONS</b>	<b>STANDARD DETAIL</b> Date: January 2019 Drawing No: <b>R - 5</b>
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- NOTES:**
- 5/8" x 12" long steel dowels at 24" O.C., greased and wrapped one side through all expansion and cold joints.
  - Where existing sidewalk is to be removed and replaced, sidewalk shall be removed to deep score joint.
  - See notes on Standard Detail No. R-5.

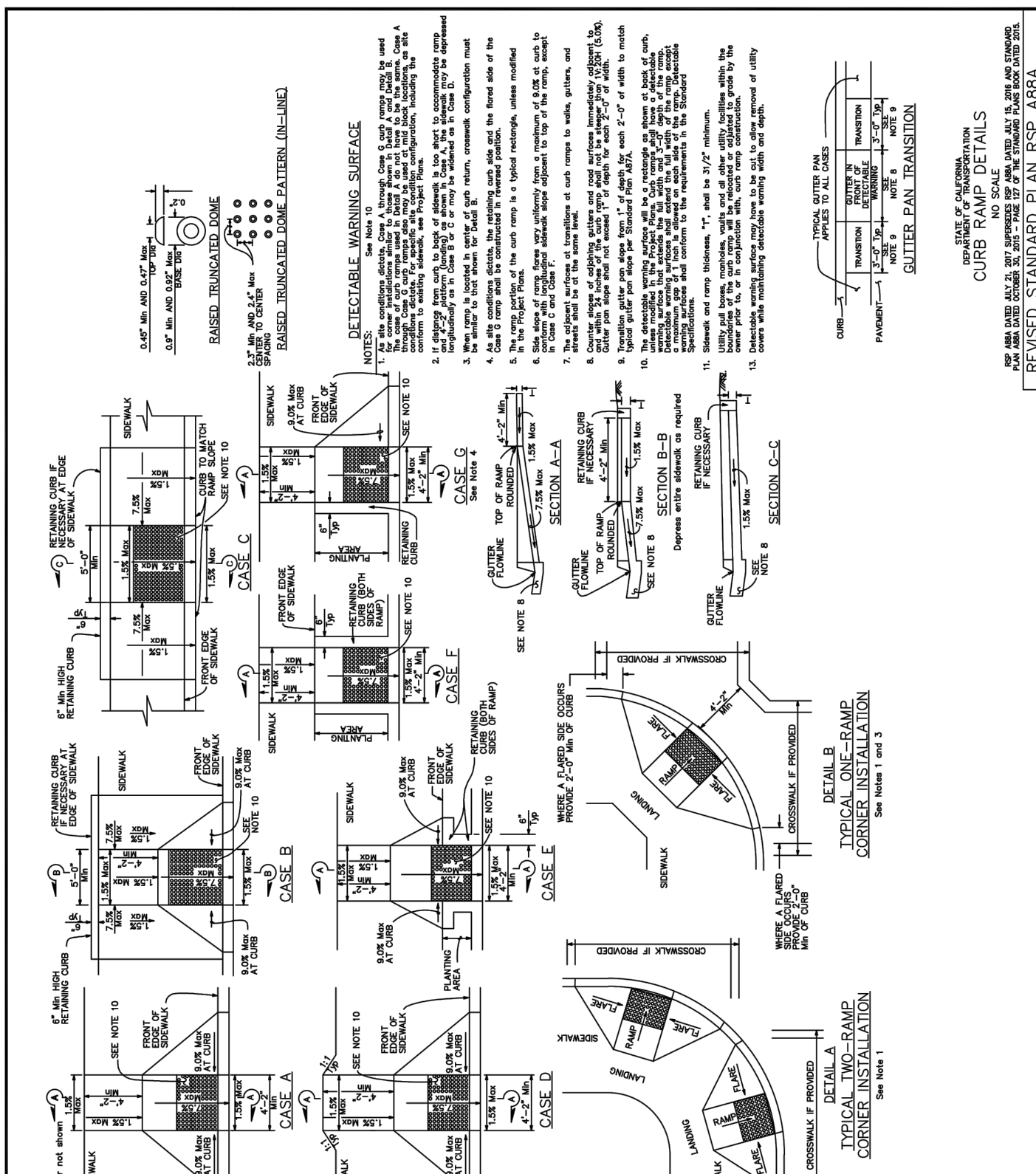
NOT TO SCALE

Approved by: <i>Wm Schmitt</i> City of Lathrop City Engineer	<b>CITY OF LATHROP</b> DEPARTMENT OF PUBLIC WORKS <b>VERTICAL CURB, GUTTER AND SIDEWALK (COMMERCIAL, INDUSTRIAL AND ALL CURB RETURNS)</b>	<b>STANDARD DETAIL</b> Date: January 2019 Drawing No: <b>R - 7A</b>
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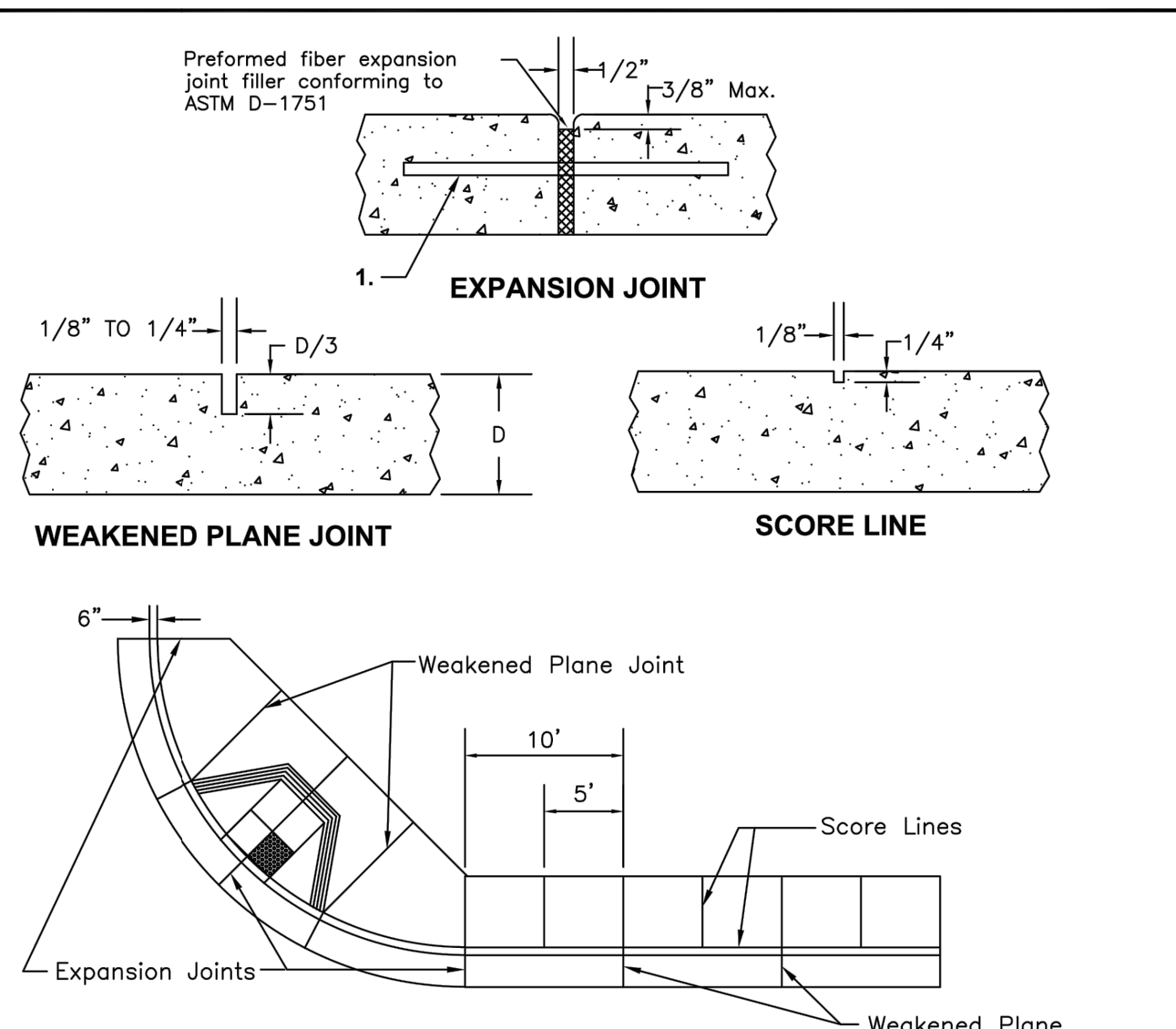


NOT TO SCALE

Approved by: <i>Wm Schmitt</i> City of Lathrop City Engineer	<b>CITY OF LATHROP</b> DEPARTMENT OF PUBLIC WORKS <b>MEDIAN AND TRAFFIC ISLAND CURBS</b>	<b>STANDARD DETAIL</b> Date: January 2019 Drawing No: <b>R - 8A</b>
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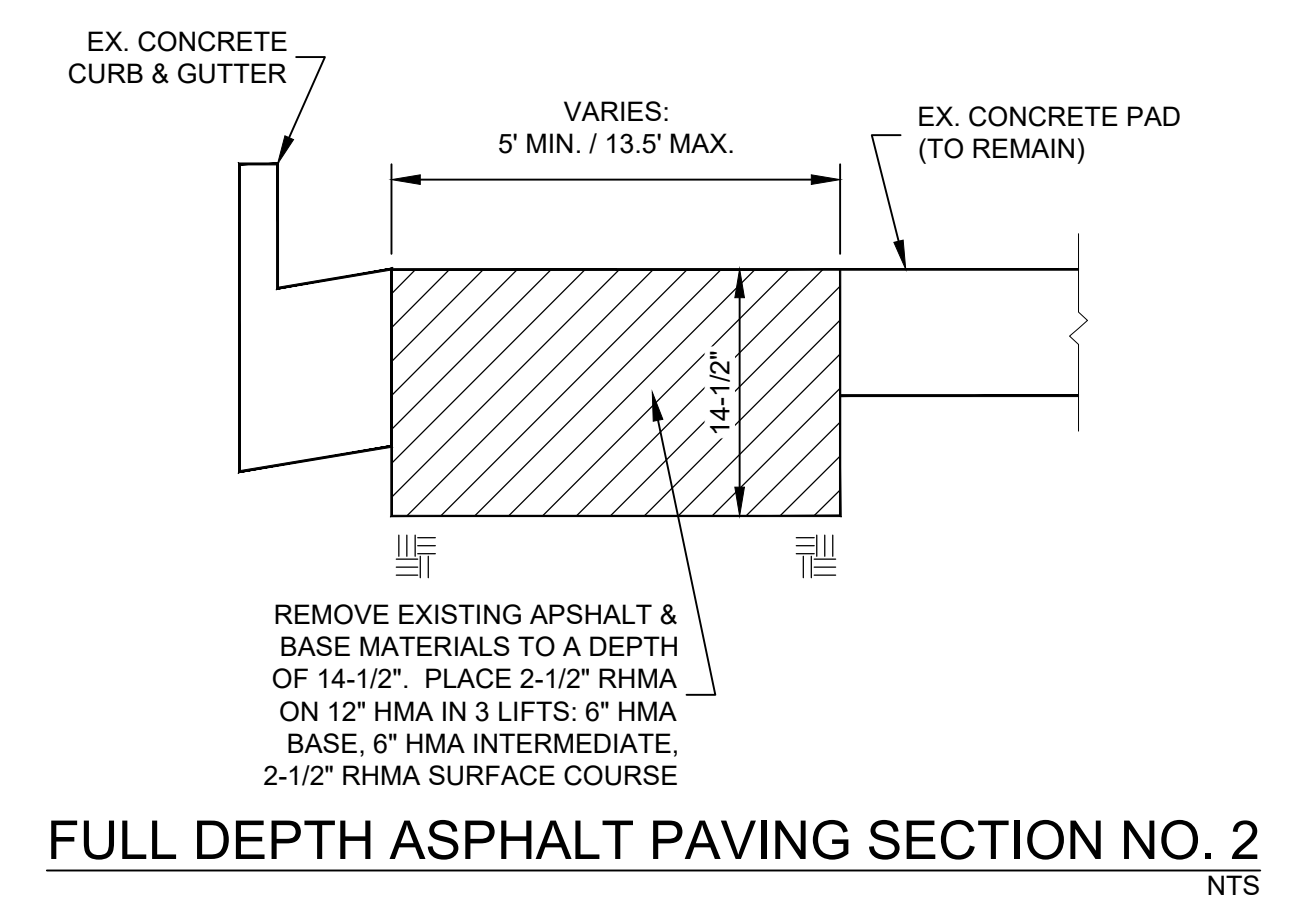
Approved by: <i>Wm Schmitt</i> City of Lathrop City Engineer	<b>CITY OF LATHROP</b> DEPARTMENT OF PUBLIC WORKS <b>CURB RAMP DETAILS</b>	<b>STANDARD DETAIL</b> Date: January 2019 Drawing No: <b>R - 10</b>
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- NOTES:**
- 5/8" x 24" long steel dowels at 18" O.C., greased and wrapped one side through all expansion joints.
  - Expansion joints shall be constructed every 40' min.
  - See notes on Standard Detail No. R-5.
- NOTE:**
- Handicap Ramp Defined - Ramp, Flare, Landing, Curb and Gutter Plan, Boarder, Side Slope and Detectable Warning Surface.

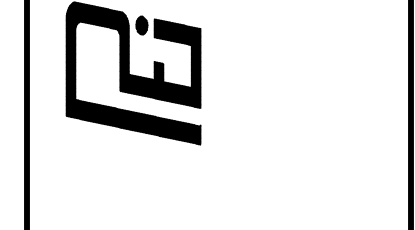
NOT TO SCALE

Approved by: <i>Wm Schmitt</i> City of Lathrop City Engineer	<b>CITY OF LATHROP</b> DEPARTMENT OF PUBLIC WORKS <b>EXPANSION JOINTS WEAKENED PLANE JOINTS AND SCORE LINES</b>	<b>STANDARD DETAIL</b> Date: January 2019 Drawing No: <b>R - 11</b>
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**REMOVE & REPLACE 8" HMA**  
NTS

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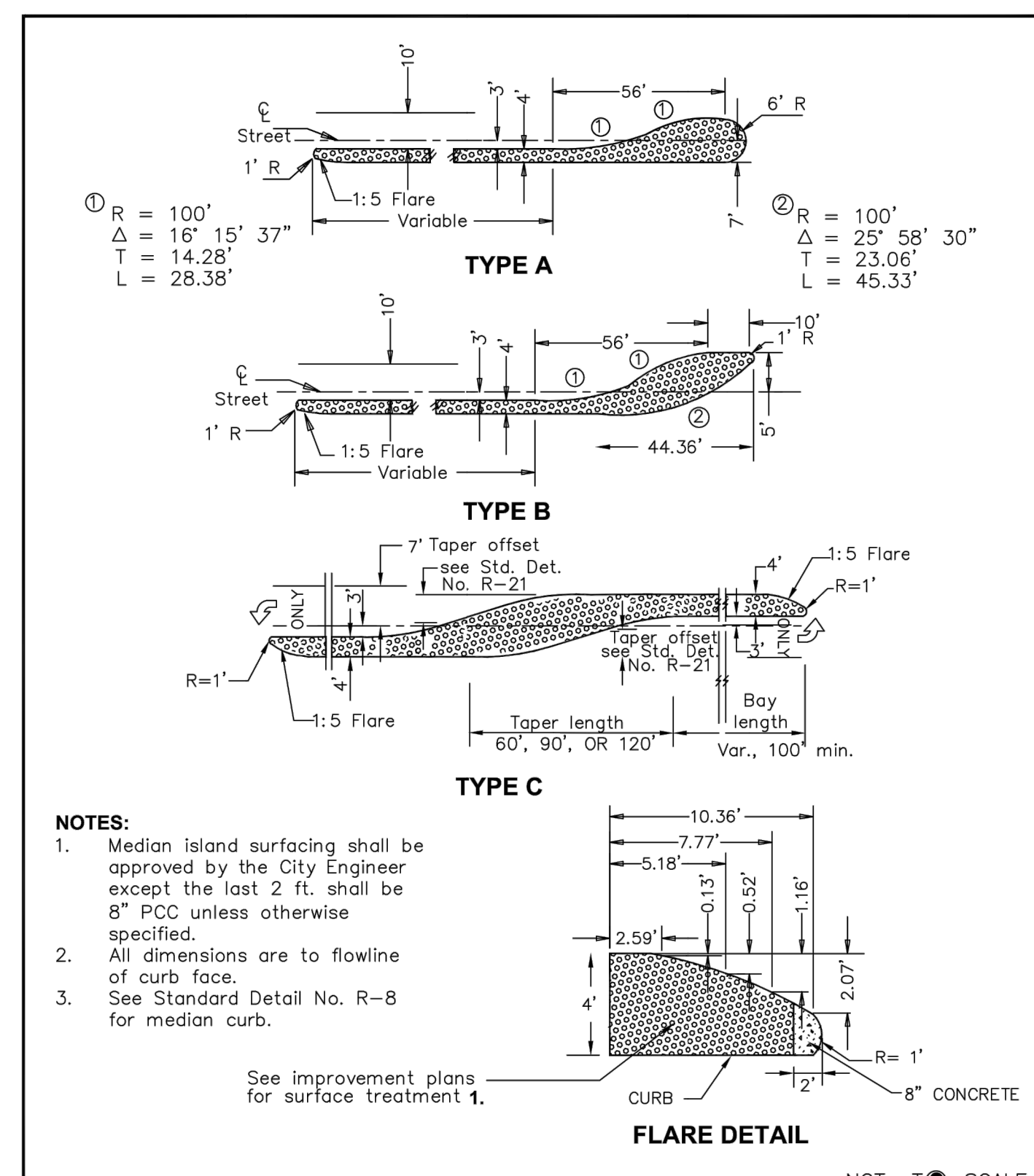


**CITY OF LATHROP**  
LOUISE AVENUE PAVEMENT REHABILITATION PROJECT  
CONSTRUCTION DETAILS



DRAWN BY: **JRE**  
PROJECT NUMBER: **200074**  
SCALE: **AS SHOWN**  
VERIFY SCALE BAR REPRESENTS 1" ON ORIGINAL  
DATE: **JULY 2020**  
SHEET NUMBER: **P13**



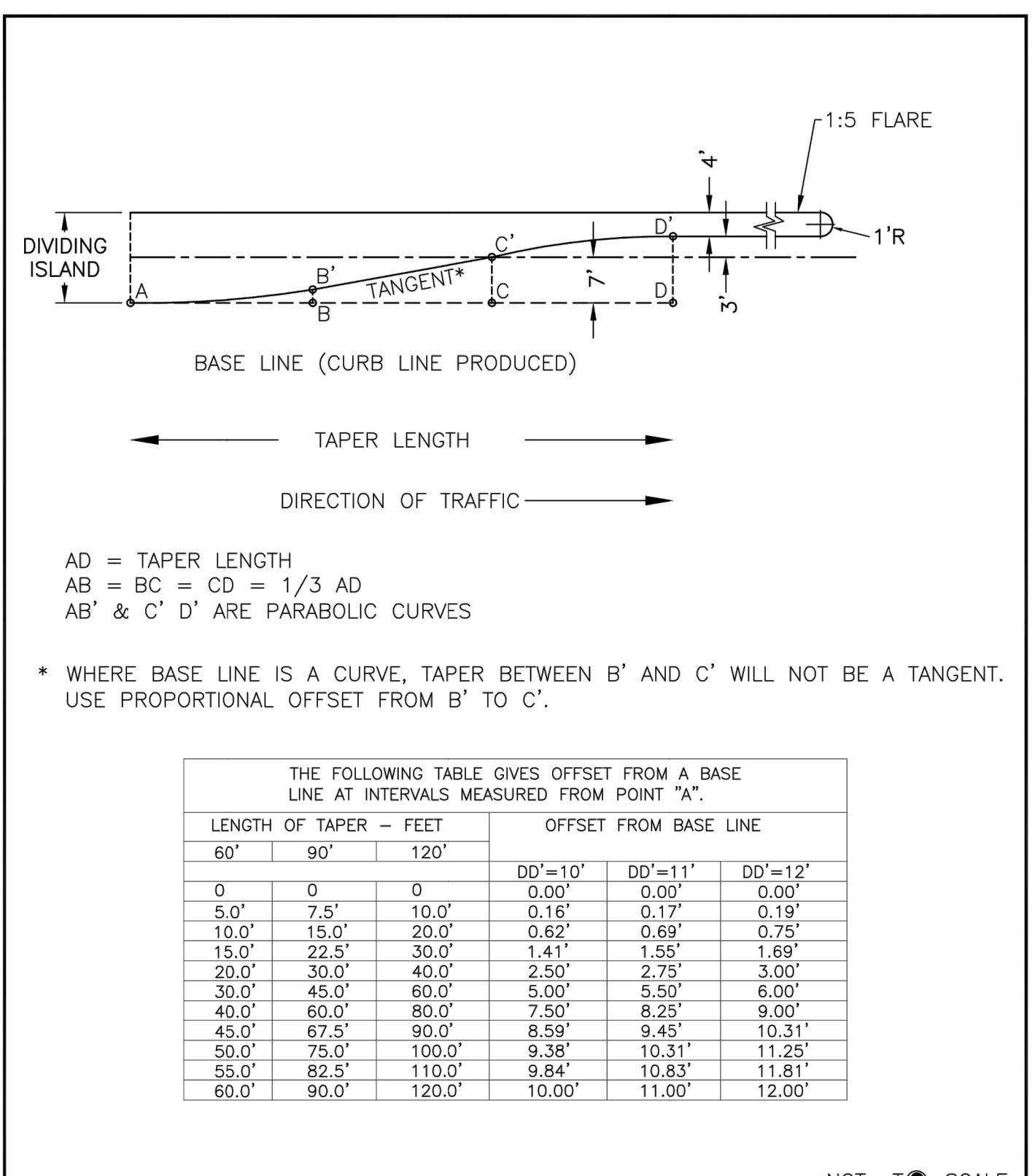


Approved by: *M. Subhant*  
 City of Lathrop City Engineer  
 No Revised Date

**CITY OF LATHROP**  
 DEPARTMENT OF PUBLIC WORKS

**STANDARD DETAIL**  
 Date: January 2019  
 Drawing No: **R - 20**

**TRAFFIC ISLAND**

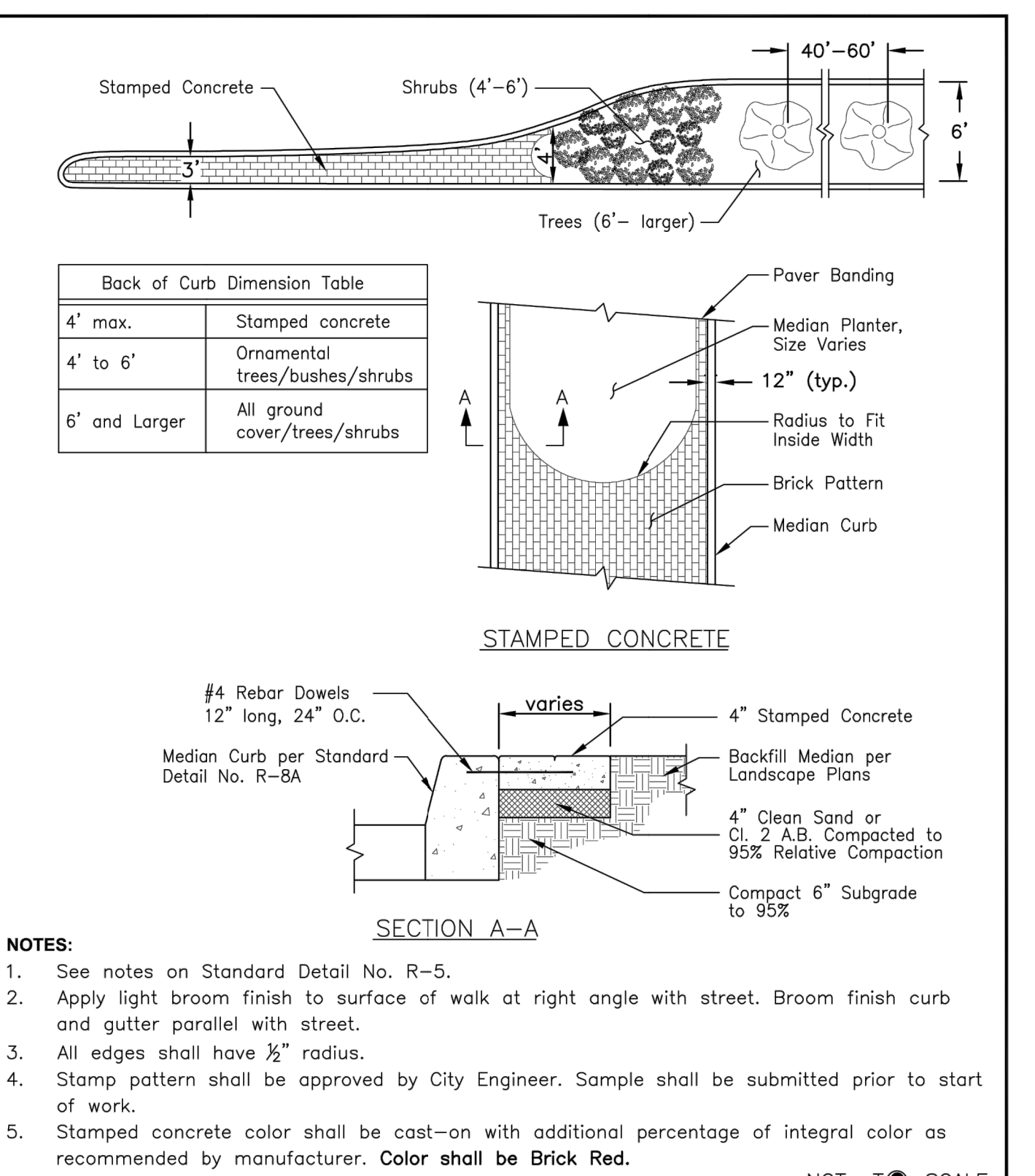


Approved by: *M. Subhant*  
 City of Lathrop City Engineer  
 No Revised Date

**CITY OF LATHROP**  
 DEPARTMENT OF PUBLIC WORKS

**STANDARD DETAIL**  
 Date: January 2019  
 Drawing No: **R-21**

**LEFT TURN LANE TAPER DATA**

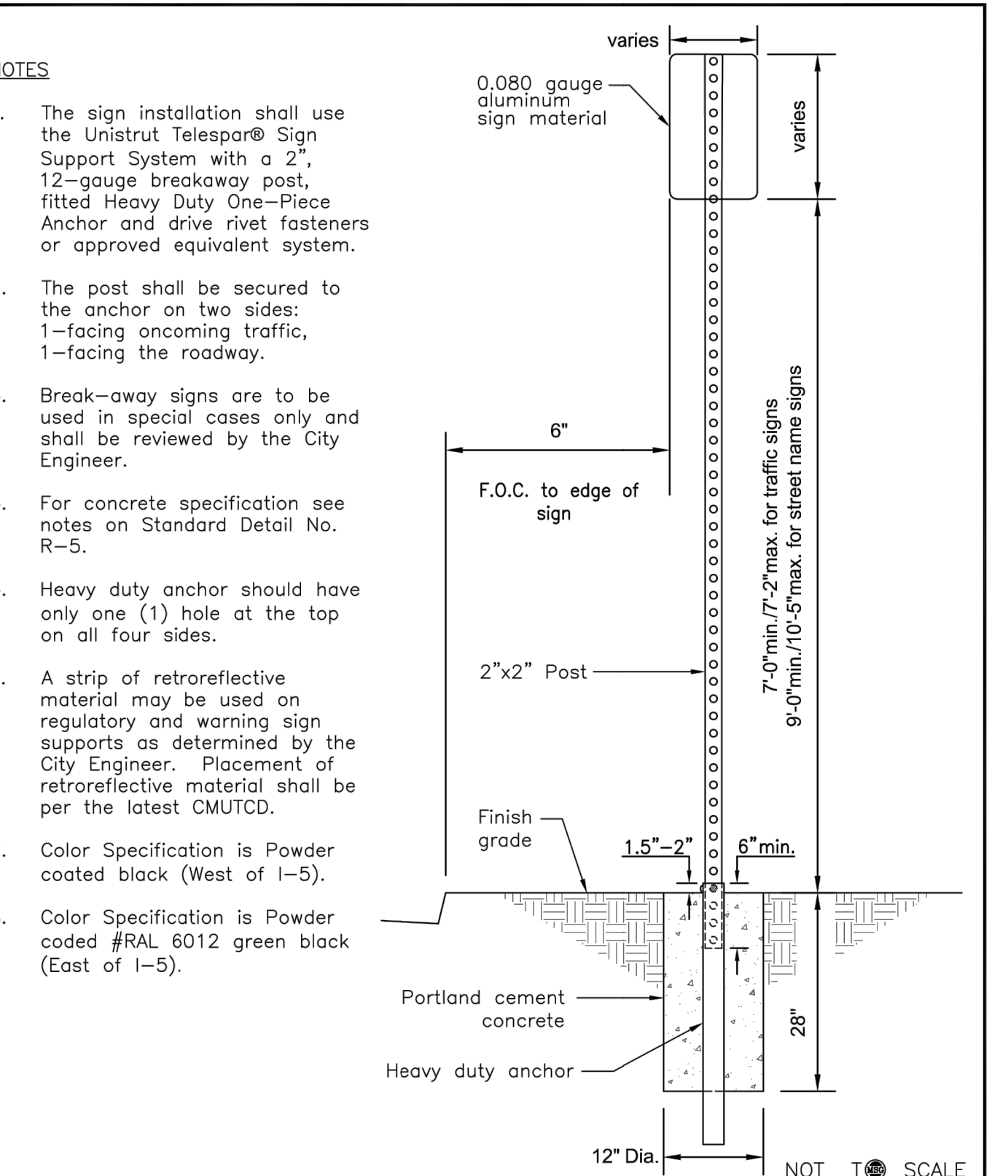


Approved by: *M. Subhant*  
 City of Lathrop City Engineer  
 No Revised Date

**CITY OF LATHROP**  
 DEPARTMENT OF PUBLIC WORKS

**STANDARD DETAIL**  
 Date: January 2019  
 Drawing No: **R - 21B**

**STAMPED CONCRETE**

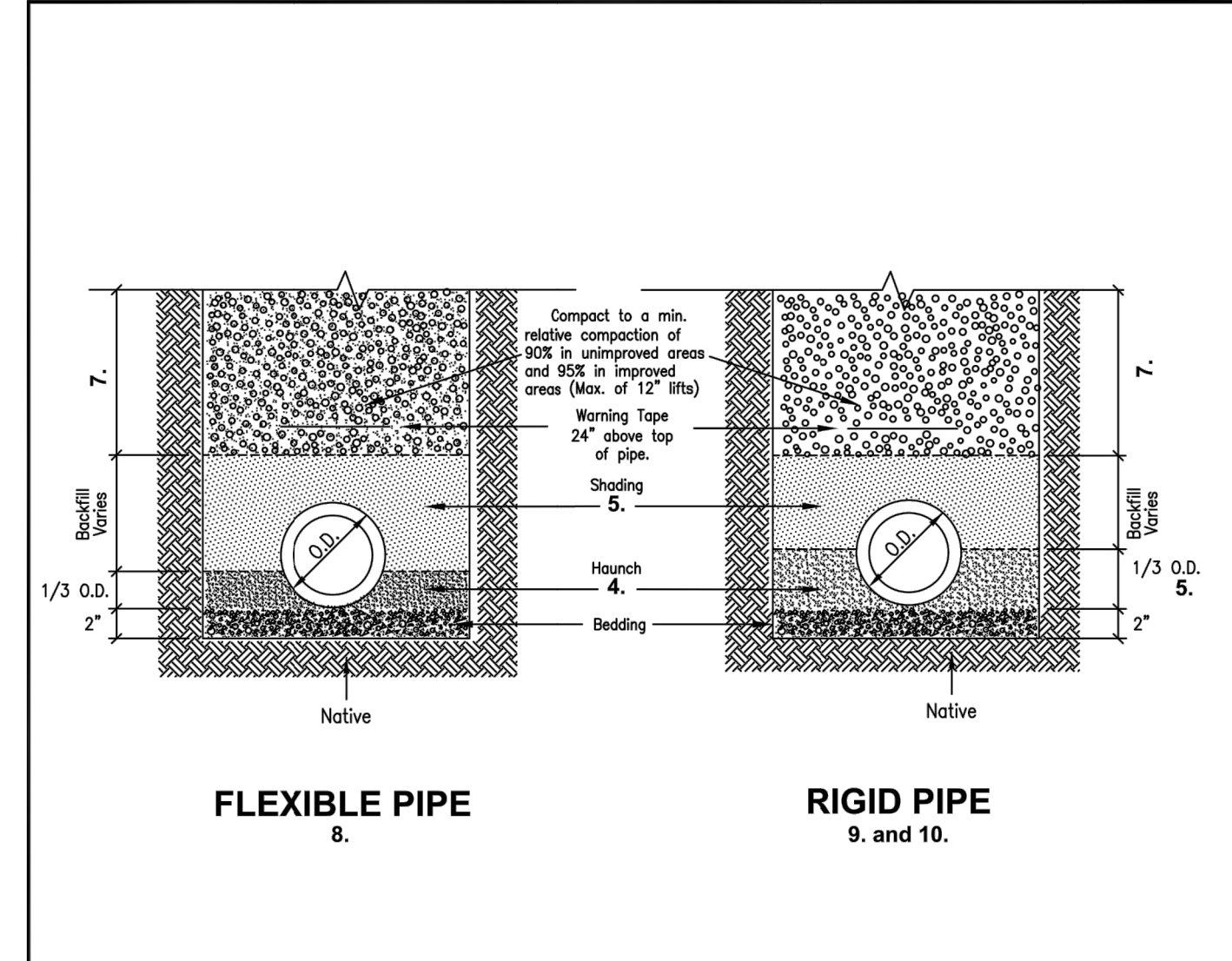


Approved by: *M. Subhant*  
 City of Lathrop City Engineer  
 No Revised Date

**CITY OF LATHROP**  
 DEPARTMENT OF PUBLIC WORKS

**STANDARD DETAIL**  
 Date: January 2019  
 Drawing No: **R - 25D**

**BREAK-AWAY SIGN INSTALLATION w/ 2X2 POLE AND ANCHOR ASSEMBLY**

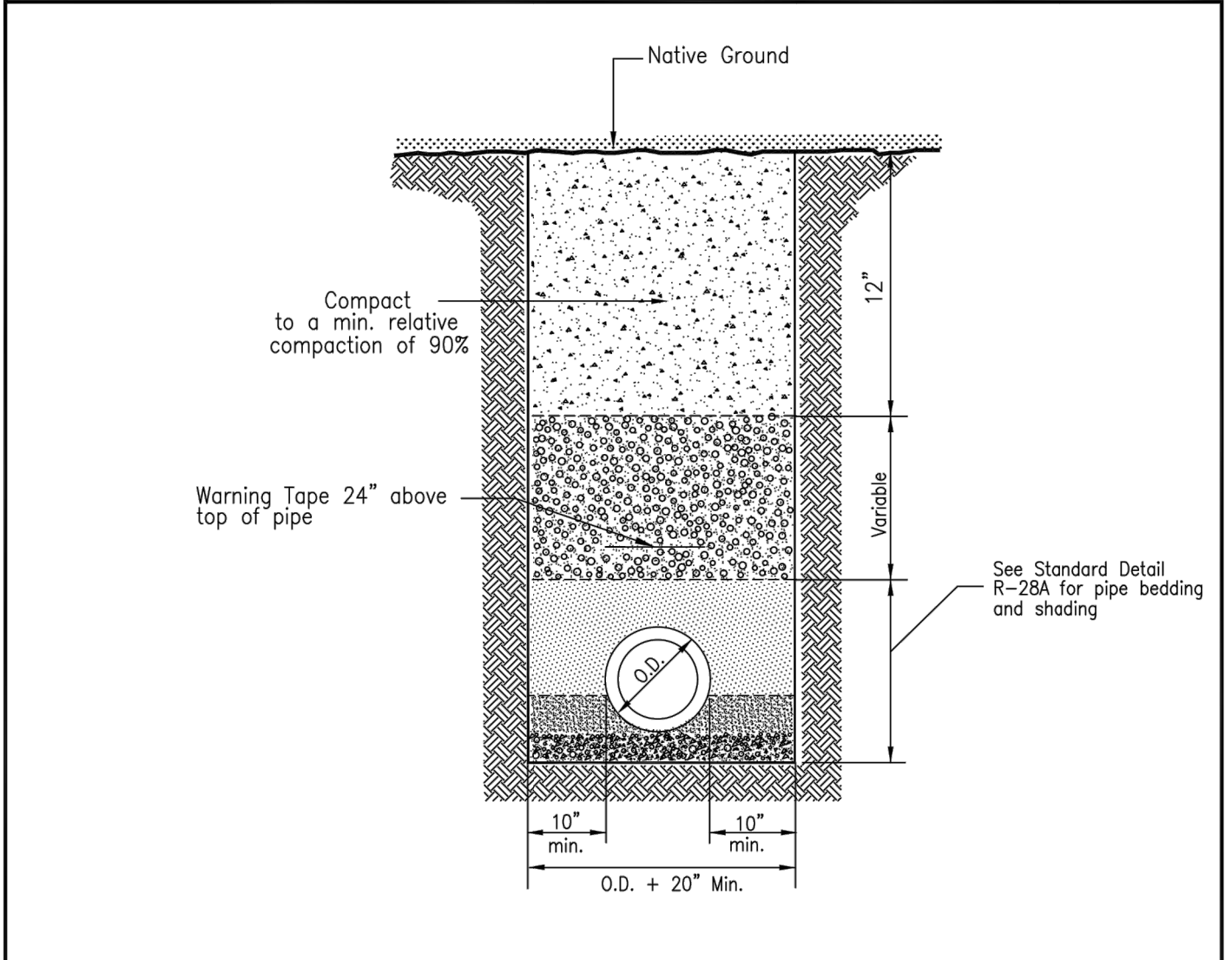


Approved by: *M. Subhant*  
 City of Lathrop City Engineer  
 No Revised Date

**CITY OF LATHROP**  
 DEPARTMENT OF PUBLIC WORKS

**STANDARD DETAIL**  
 Date: January 2019  
 Drawing No: **R - 28A**

**TRENCH BEDDING AND SHADING**

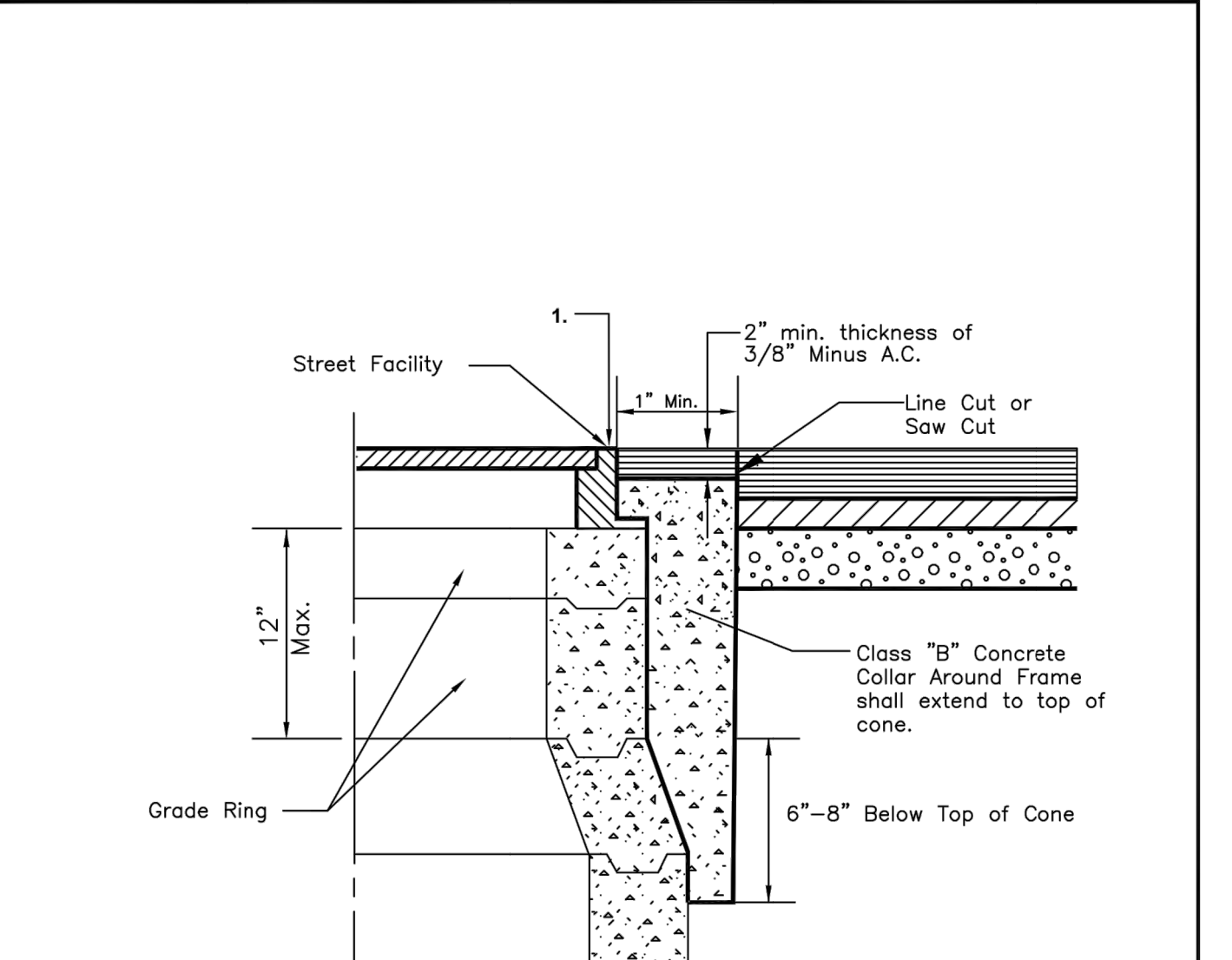


Approved by: *M. Subhant*  
 City of Lathrop City Engineer  
 No Revised Date

**CITY OF LATHROP**  
 DEPARTMENT OF PUBLIC WORKS

**STANDARD DETAIL**  
 Date: January 2019  
 Drawing No: **R - 28D**

**TRENCH BACKFILL UNIMPROVED AREAS**

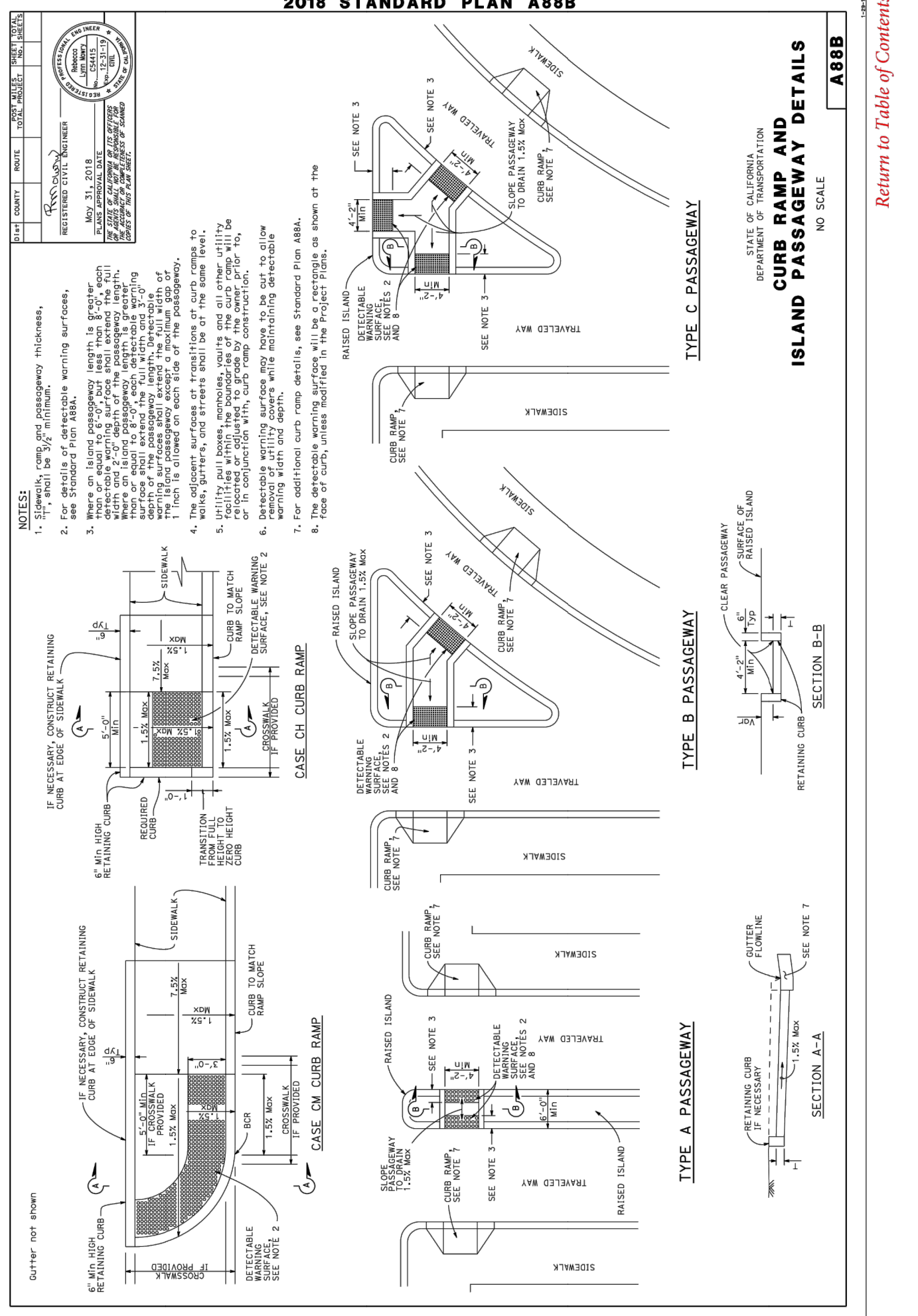


Approved by: *M. Subhant*  
 City of Lathrop City Engineer  
 No Revised Date

**CITY OF LATHROP**  
 DEPARTMENT OF PUBLIC WORKS

**STANDARD DETAIL**  
 Date: January 2019  
 Drawing No: **R - 29A**

**ADJUSTING STREET FACILITIES TO GRADE**



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**CITY OF LATHROP**  
 LOUISE AVENUE PAVEMENT REHABILITATION PROJECT  
 CONSTRUCTION DETAILS

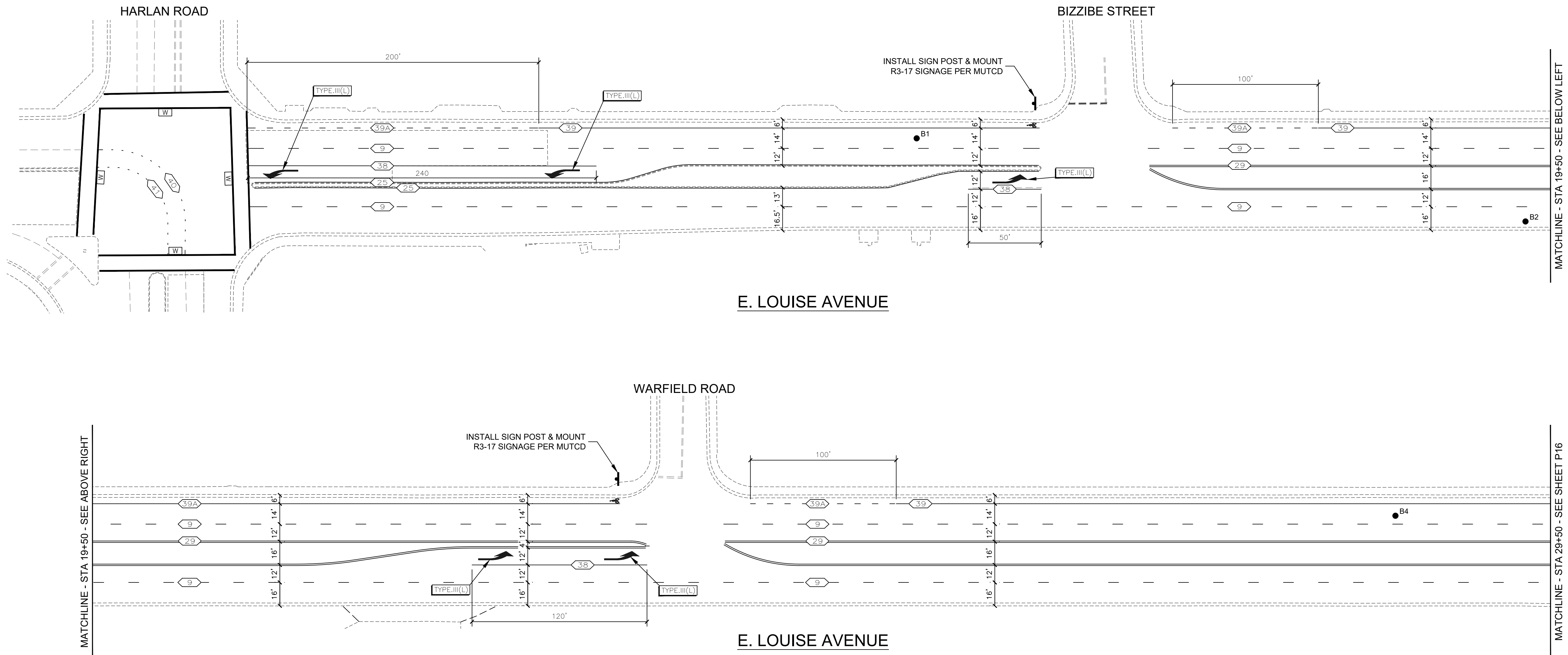
**REGISTERED PROFESSIONAL ENGINEER**  
 CIVIL  
 Exp. 12-31-20  
 STATE OF CALIFORNIA

DRAWN BY: **JRE**  
 PROJECT NUMBER: **200074**  
 SCALE: **AS SHOWN**  
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 BAR REPRESENTS 1" ON ORIGINAL  
 DATE: **JULY 2020**  
 SHEET NUMBER: **P14**

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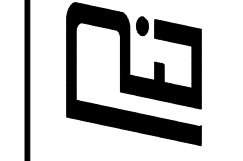


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- LEGEND**
- INSTALL SIGN POST & ROADSIDE SIGN
  - BRPM ■ BLUE RETROREFLECTIVE PAVEMENT MARKER
  - CALTRANS STRIPING DETAIL "XX"
  - CALTRANS ARROW TYPE "X"
  - 12" WHITE CROSSWALK LINE (THERMO)
  - INSTALL BIKE SYMBOL W/PERSON PER CALTRANS STD. PLAN A24C

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**CITY OF LATHROP**  
 LOUISE AVENUE PAVEMENT REHABILITATION PROJECT  
**STRIPING & SIGNAGE PLAN**  
 STA 9+00 TO STA 29+50

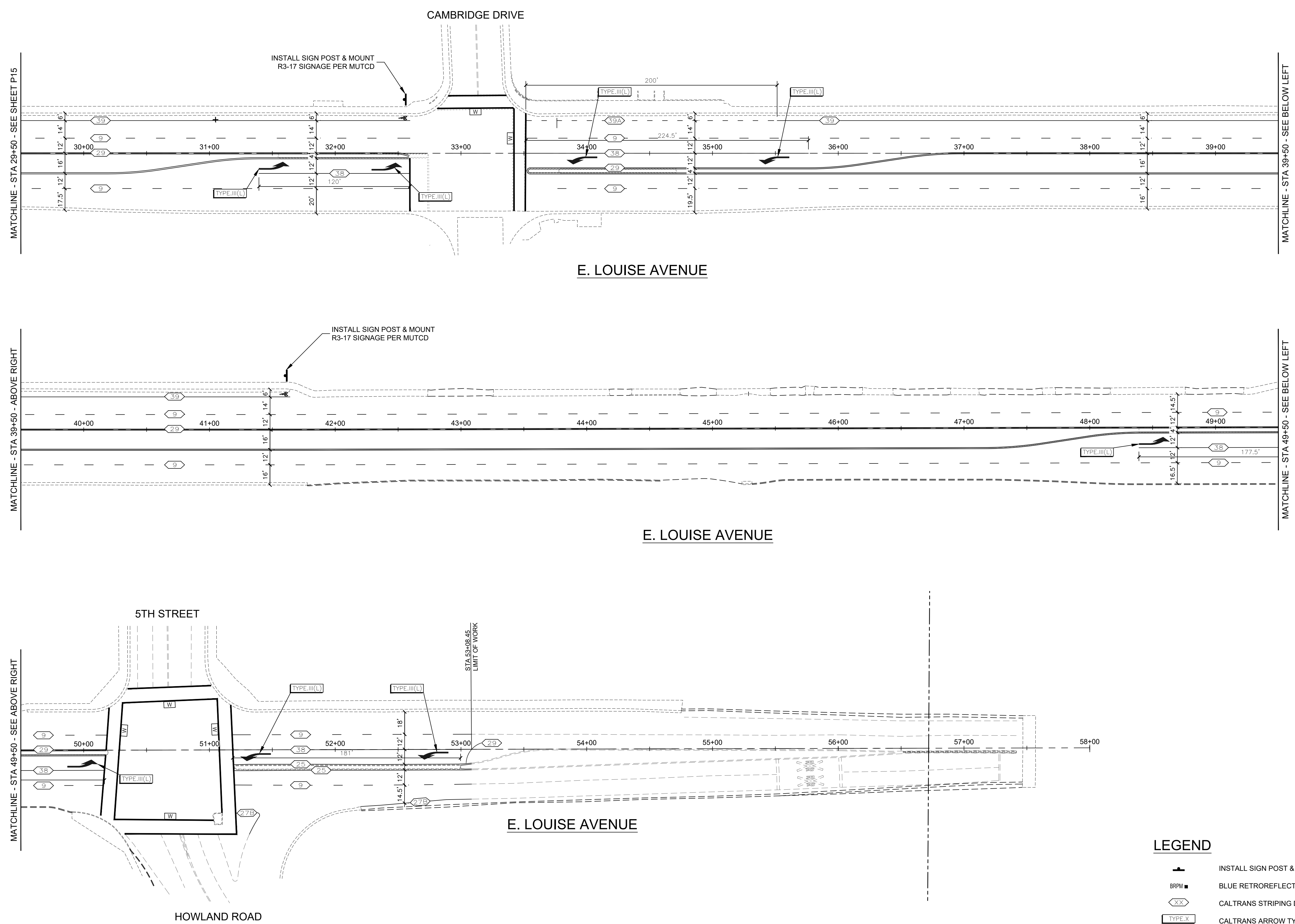


DRAWN BY: **JRE**  
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 BAR REPRESENTS  
 1" ON ORIGINAL  
 DATE: **JULY 2020**  
 SHEET NUMBER:

**P15**



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- LEGEND**
- INSTALL SIGN POST & ROADSIDE SIGN
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  - XX CALTRANS STRIPING DETAIL "XX"
  - TYPE X CALTRANS ARROW TYPE "X"
  - W 12" WHITE CROSSWALK LINE (THERMO)
  - INSTALL BIKE SYMBOL W/PERSON PER CALTRANS STD. PLAN A24C

**P**

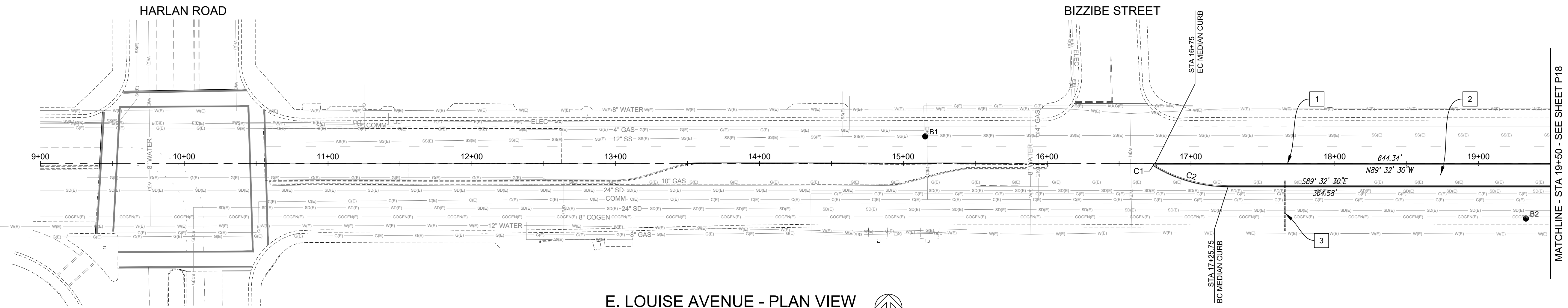
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 San Luis Obispo, CA 93401  
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**CITY OF LATHROP**  
**LOUISE AVENUE PAVEMENT REHABILITATION PROJECT**  
**STRIPING & SIGNAGE PLAN**  
 STA 29+50 TO STA 58+00

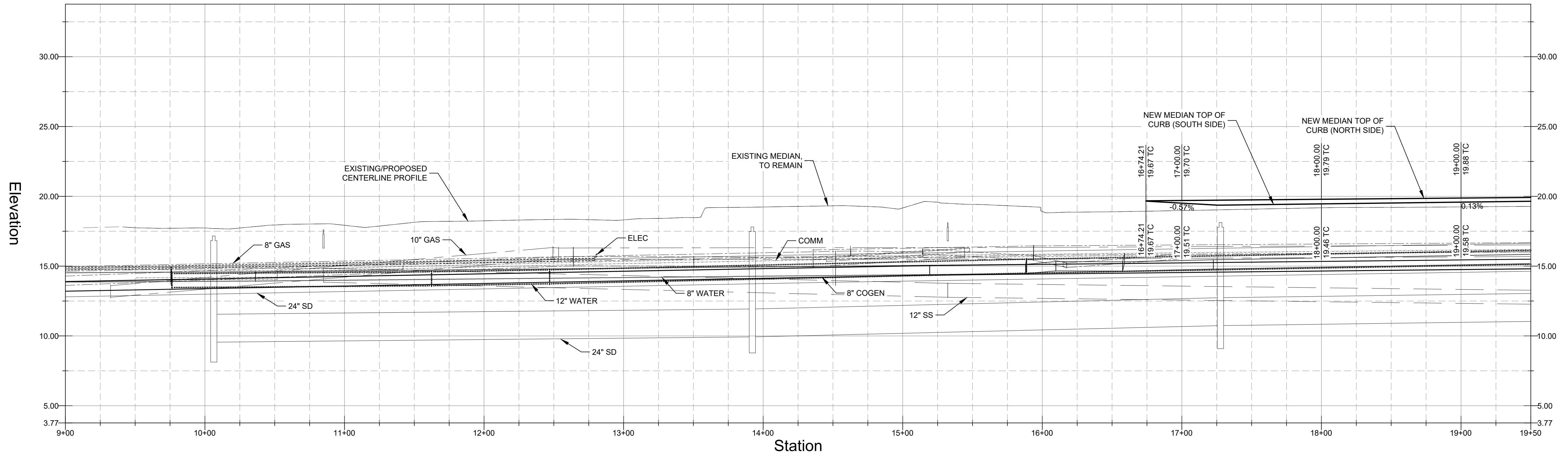
REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 C52735  
 Exp. 12-31-20

DRAWN BY:	JRE
PROJECT NUMBER:	200074
SCALE:	1" = 40'
VERIFY SCALE	BAR REPRESENTS 1" ON ORIGINAL
DATE:	JULY 2020
SHEET NUMBER:	<b>P16</b>





**E. LOUISE AVENUE - PLAN VIEW**  
1" = 40'



**E. LOUISE AVENUE - PROFILE VIEW**  
HORIZONTAL: 1" = 40'  
VERTICAL: 1" = 4'

**CONSTRUCTION NOTES:**

- 1 CONSTRUCT PCC MEDIAN CURB PER CITY OF LATHROP STANDARD DRAWINGS R-8 & R-20.
- 2 REMOVE EXISTING AC & AB (10" MIN./20" MAX.) WITHIN MEDIAN; BACKFILL W/NATIVE SOIL 4" BELOW TOP OF CURB
- 3 INSTALL (2) 3" SCH. 40 CONDUITS 30" MIN. BELOW FINISHED SURFACE FOR FUTURE IRRIGATION & ELECTRICAL.

**LEGEND**

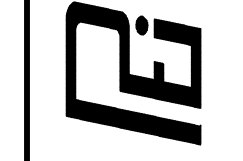
- INSTALL 3" SCH. 40 CONDUIT
- x - x - x - x - FENCE (EX.)
- (E)--- COMMUNICATION LINE (EX.)
- (E)--- ELECTRICAL LINE (EX.)
- (G)--- GAS LINE (EX.)
- (S)--- STORM DRAIN LINE (EX.)
- (S)--- SANITARY SEWER LINE (EX.)
- (W)--- WATER LINE (EX.)
- XX BORING LOCATION

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	2.60	1.00	149.1582
C2	53.83	100.00	30.8418

BORING LOG			
NO.	AC	AB	R-VALUE
B1	8"	7"	-
B2	7-1/2"	11"	-

\*CORING DATA IS FOR INFORMATION ONLY. EXISTING SECTION MAY VARY FROM SECTION(S) FOUND AT CORING LOCATION(S). FABRIC MAY BE PRESENT IN SECTIONS EVEN IF NOT FOUND AT CORING LOCATION(S).

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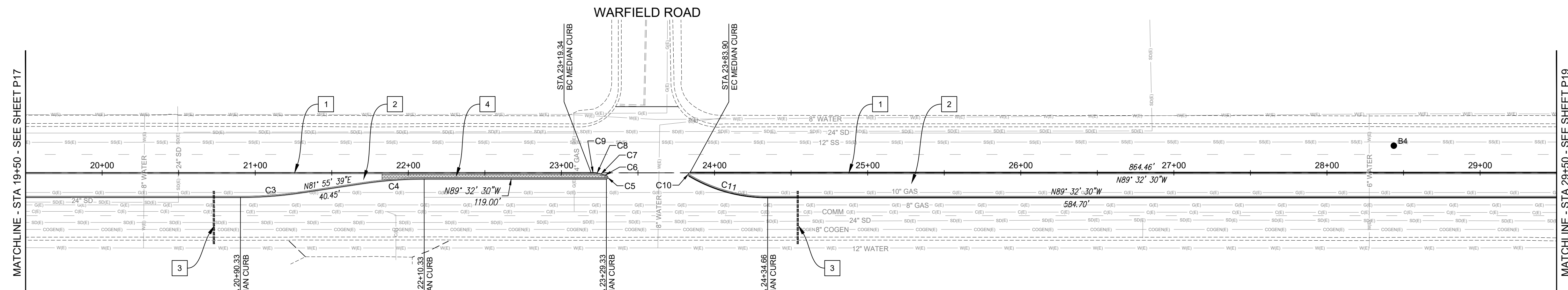
**CITY OF LATHROP**  
LOUISE AVENUE PAVEMENT REHABILITATION PROJECT  
**STREET IMPROVEMENT PLANS - BID ALTERNATE 1**  
STA 9+00 TO STA 19+50



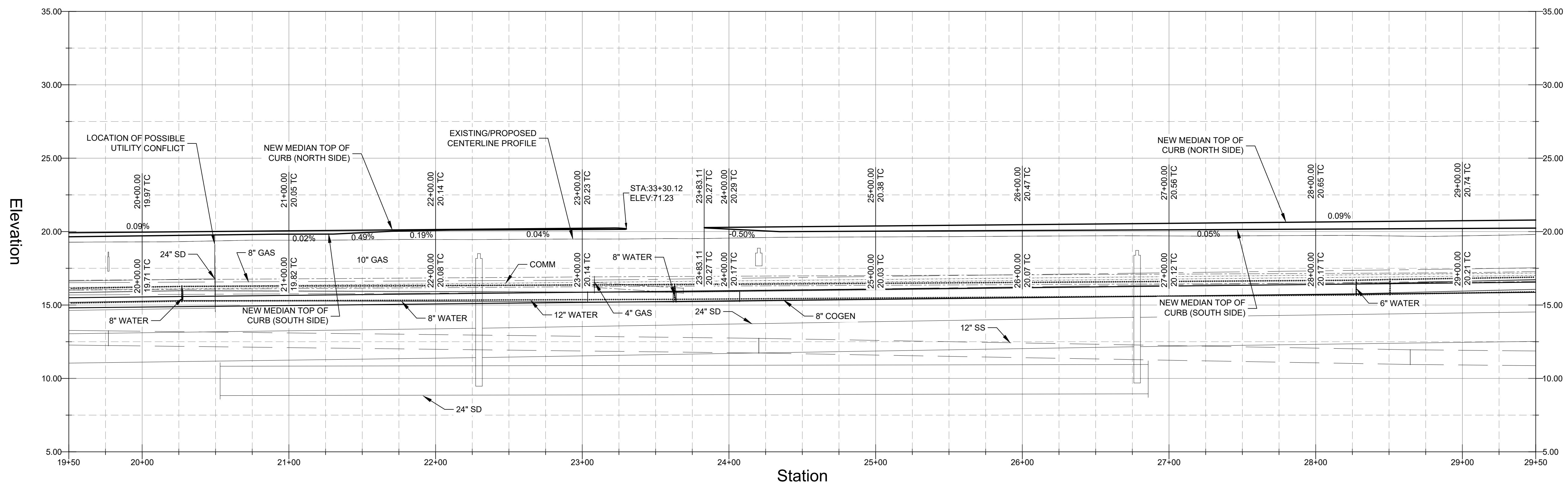
DRAWN BY: JRE  
PROJECT NUMBER: 200074  
SCALE: 1" = 40'  
VERIFY SCALE  
BAR REPRESENTS 1" ON ORIGINAL  
DATE: JULY 2020  
SHEET NUMBER:

Path: Z:\SHAREDR\DRIVE\ACTIVE PROJECTS\LATHROP, CITY OF\2007\TASK 01\DRAWING\200074\_01\_SITE-CL\_LATHROP.DWG, Plot Date: 7/6/2020 11:46 AM





E. LOUISE AVENUE - PLAN VIEW  
1" = 40'



E. LOUISE AVENUE - PROFILE VIEW  
HORIZONTAL: 1" = 40'  
VERTICAL: 1" = 4'

**CONSTRUCTION NOTES:**

- 1 CONSTRUCT PCC MEDIAN CURB PER CITY OF LATHROP STANDARD DRAWINGS R-8 & R-20.
- 2 REMOVE EXISTING AC & AB (10" MIN./20" MAX.) WITHIN MEDIAN; BACKFILL W/NATIVE SOIL 4" BELOW TOP OF CURB
- 3 INSTALL (2) 3" SCH. 40 CONDUITS 30" MIN. BELOW FINISHED SURFACE FOR FUTURE IRRIGATION & ELECTRICAL.
- 4 INSTALL STAMPED CONCRETE PER CITY OF LATHROP STANDARD DRAWINGS R-21B; MATCH EX. COLOR.

**LEGEND**

- INSTALL STAMPED CONCRETE
- INSTALL 3" SCH. 40 CONDUIT
- FENCE (EX.)
- COMMUNICATION LINE (EX.)
- ELECTRICAL LINE (EX.)
- GAS LINE (EX.)
- STORM DRAIN LINE (EX.)
- SANITARY SEWER LINE (EX.)
- WATER LINE (EX.)
- BORING LOCATION

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C3	40.15	268.17	8.5783
C4	40.15	268.17	8.5783
C5	2.77	1.00	158.4348
C6	2.75	26.42	5.9572
C7	2.67	30.58	5.0009
C8	2.62	26.65	5.6327
C9	2.59	25.87	5.7469
C10	2.60	1.00	149.1582
C11	53.83	100.00	30.8418

**BORING LOG**

NO.	AC	AB	R-VALUE
B4	6-1/2"	8"	68

\*CORING DATA IS FOR INFORMATION ONLY. EXISTING SECTION MAY VARY FROM SECTION(S) FOUND AT CORING LOCATION(S). FABRIC MAY BE PRESENT IN SECTIONS EVEN IF NOT FOUND AT CORING LOCATION(S).

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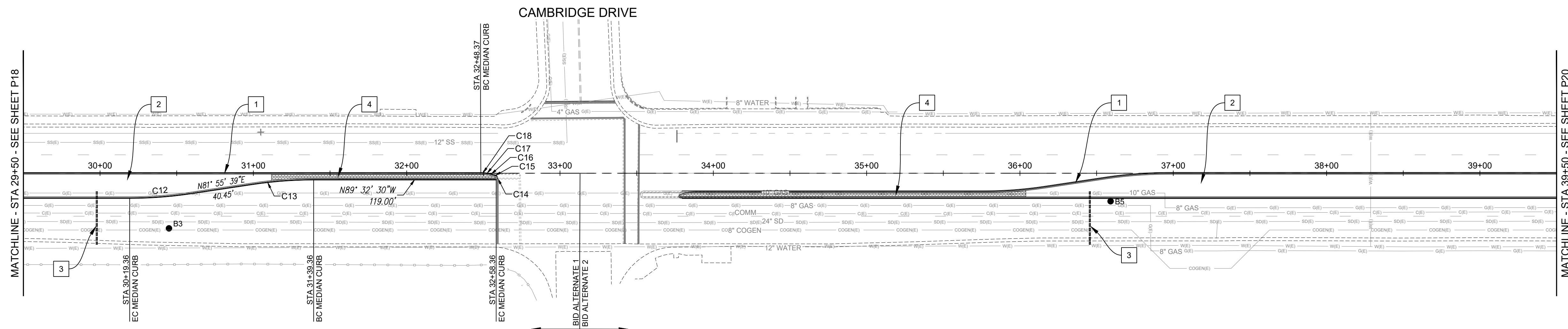
**CITY OF LATHROP**  
LOUISE AVENUE PAVEMENT REHABILITATION PROJECT  
STREET IMPROVEMENT PLANS - BID ALTERNATE 1  
STA 19+50 TO STA 29+50

REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
C52735  
Exp. 12-31-20  
STATE OF CALIFORNIA

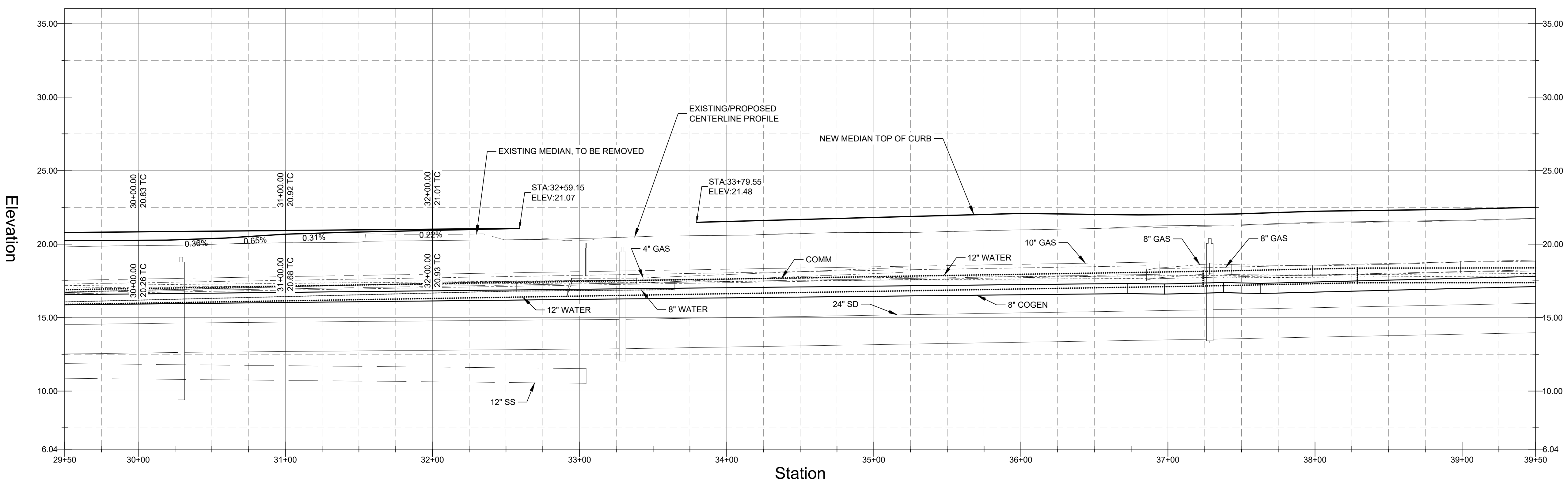
DRAWN BY: JRE  
PROJECT NUMBER: 200074  
SCALE: 1" = 40'  
VERIFY SCALE  
BAR REPRESENTS 1" ON ORIGINAL  
DATE: JULY 2020  
SHEET NUMBER: P18

P:\IN\Z.SHAREDIR\DRIVEACTIVE PROJECTS\LATHROP\_CITY\_OF\2007\TASK 01\DRAWING\200704\_01\_SITE-01\_LATHROP.DWG Plot Date: 7/6/2020 10:53 AM





**E. LOUISE AVENUE - PLAN VIEW**  
1" = 40'



**E. LOUISE AVENUE - PROFILE VIEW**  
HORIZONTAL: 1" = 40'  
VERTICAL: 1" = 4'

**CONSTRUCTION NOTES:**

- 1 CONSTRUCT PCC MEDIAN CURB PER CITY OF LATHROP STANDARD DRAWINGS R-8 & R-20.
- 2 REMOVE EXISTING AC & AB (10" MIN./20" MAX.) WITHIN MEDIAN; BACKFILL W/NATIVE SOIL 4" BELOW TOP OF CURB
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- 4 INSTALL STAMPED CONCRETE PER CITY OF LATHROP STANDARD DRAWINGS R-21B; MATCH EX. COLOR.

**LEGEND**

- INSTALL STAMPED CONCRETE
- INSTALL 3" SCH. 40 CONDUIT
- FENCE (EX.)
- COMMUNICATION LINE (EX.)
- ELECTRICAL LINE (EX.)
- GAS LINE (EX.)
- STORM DRAIN LINE (EX.)
- SANITARY SEWER LINE (EX.)
- WATER LINE (EX.)
- BORING LOCATION

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C12	40.15	268.17	8.5783
C13	40.15	268.17	8.5783
C14	2.77	1.00	158.4348
C15	2.75	26.42	5.9572
C16	2.67	30.58	5.0009
C17	2.62	26.65	5.6327
C18	2.59	25.87	5.7469

**BORING LOG**

NO.	AC	AB	R-VALUE
B3	7-1/2"	11"	-
B5	7"	7"	-

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**CITY OF LATHROP**  
LOUISE AVENUE PAVEMENT REHABILITATION PROJECT

**STREET IMPROVEMENT PLANS - BID ALTERNATE 1 & 2**

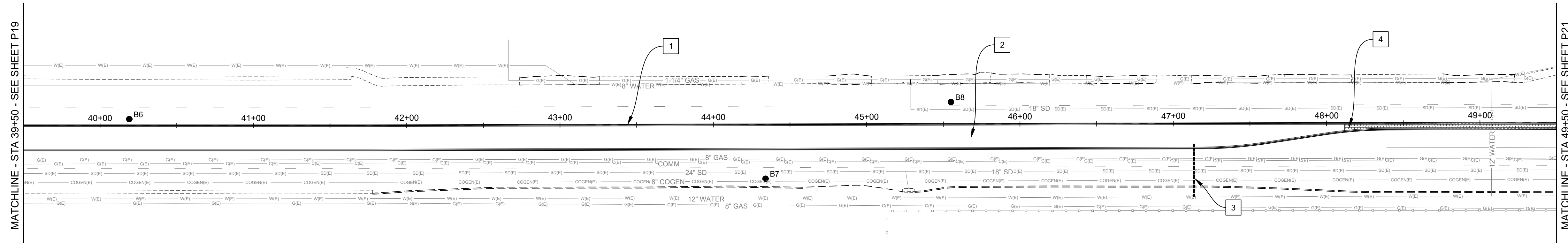
STA 29+50 TO STA 39+50



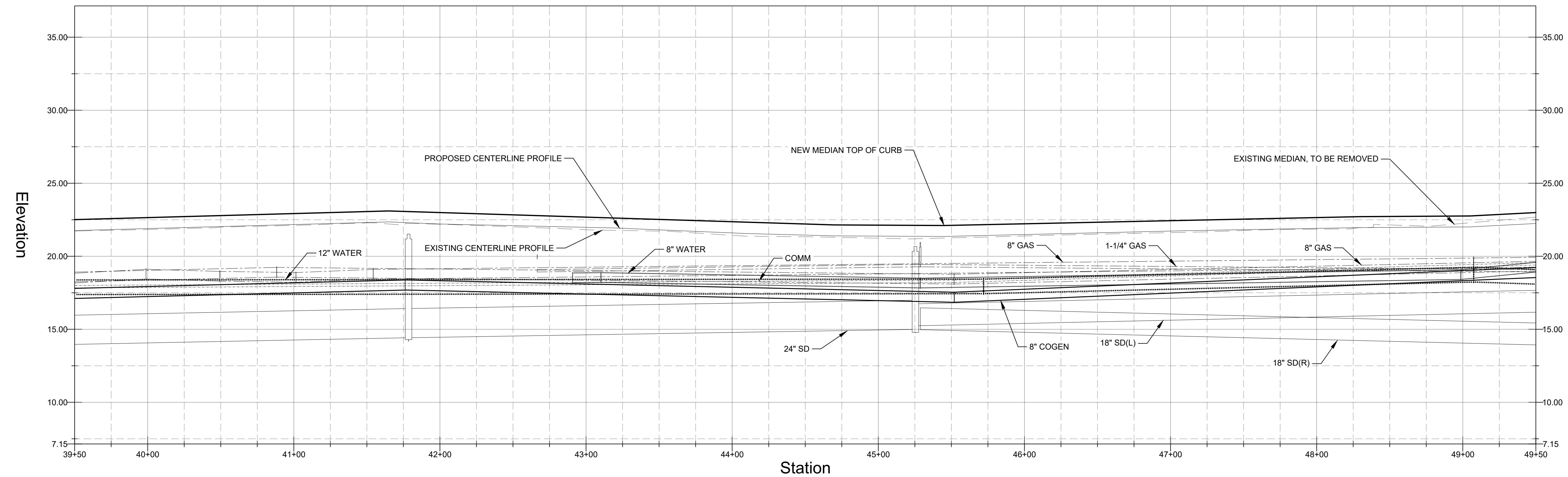
DRAWN BY: **JRE**  
PROJECT NUMBER: **200074**  
SCALE: **1" = 40'**  
VERIFY SCALE  
BAR REPRESENTS  
1" ON ORIGINAL  
DATE: **JULY 2020**  
SHEET NUMBER:

**P19**





**E. LOUISE AVENUE - PLAN VIEW**  
1" = 40'



**E. LOUISE AVENUE - PROFILE VIEW**  
HORIZONTAL: 1" = 40'  
VERTICAL: 1" = 4'

**CONSTRUCTION NOTES:**

- 1 CONSTRUCT PCC MEDIAN CURB PER CITY OF LATHROP STANDARD DRAWINGS R-8 & R-20.
- 2 REMOVE EXISTING AC & AB (10" MIN./20" MAX.) WITHIN MEDIAN; BACKFILL W/NATIVE SOIL 4" BELOW TOP OF CURB
- 4 INSTALL STAMPED CONCRETE PER CITY OF LATHROP STANDARD DRAWINGS R-21B; MATCH EX. COLOR.

**LEGEND**

- INSTALL STAMPED CONCRETE
- FENCE (EX.)
- COMMUNICATION LINE (EX.)
- ELECTRICAL LINE (EX.)
- GAS LINE (EX.)
- STORM DRAIN LINE (EX.)
- SANITARY SEWER LINE (EX.)
- WATER LINE (EX.)
- BORING LOCATION

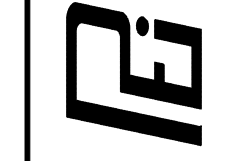
**BORING LOG**

NO.	AC	AB	R-VALUE
B6	9-1/2"	4"	-
B1	5-1/2"	-	78
B2	6-1/2"	3-1/2"	-

\*CORING DATA IS FOR INFORMATION ONLY. EXISTING SECTION MAY VARY FROM SECTION(S) FOUND AT CORING LOCATION(S). FABRIC MAY BE PRESENT IN SECTIONS EVEN IF NOT FOUND AT CORING LOCATION(S).

P:\IN\Z\SHAHREDIR\DRIVEACTIVE\PROJECTS\LATHROP\_CITY\_OF\2020\TASK\_01\DRAWING\200704\_01\_SITE\01\_LATHROP.DWG Plot Date: 7/6/2020 10:44 AM

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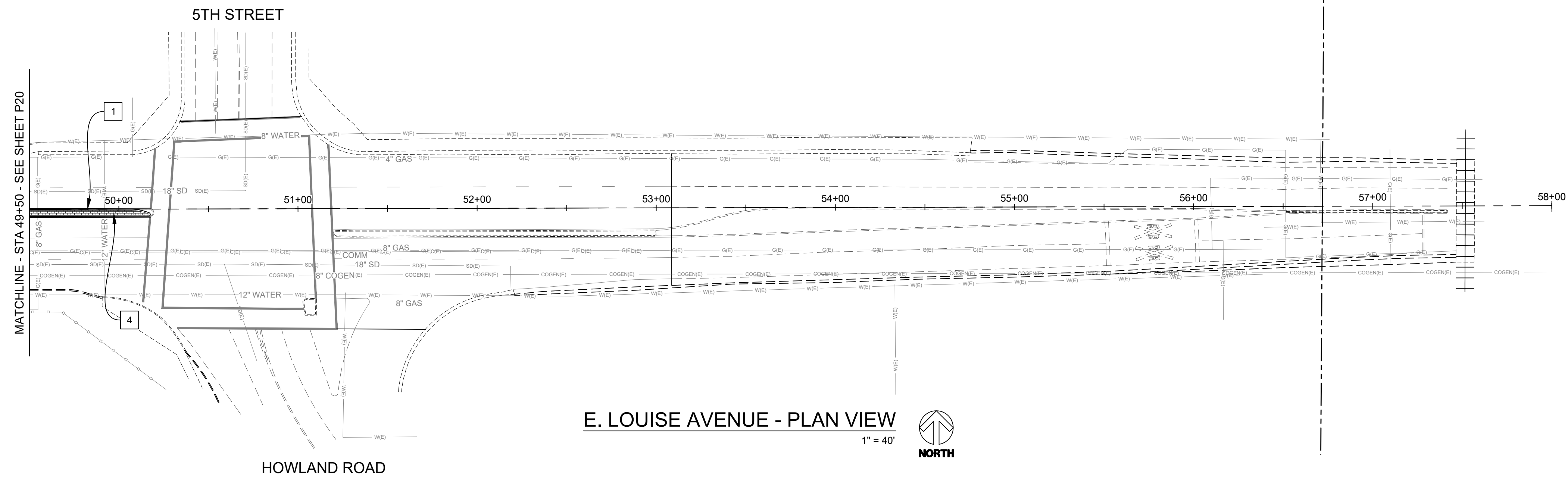
**CITY OF LATHROP**  
LOUISE AVENUE PAVEMENT REHABILITATION PROJECT  
STREET IMPROVEMENT PLANS - BID ALTERNATE 2  
STA 39+50 TO STA 49+50



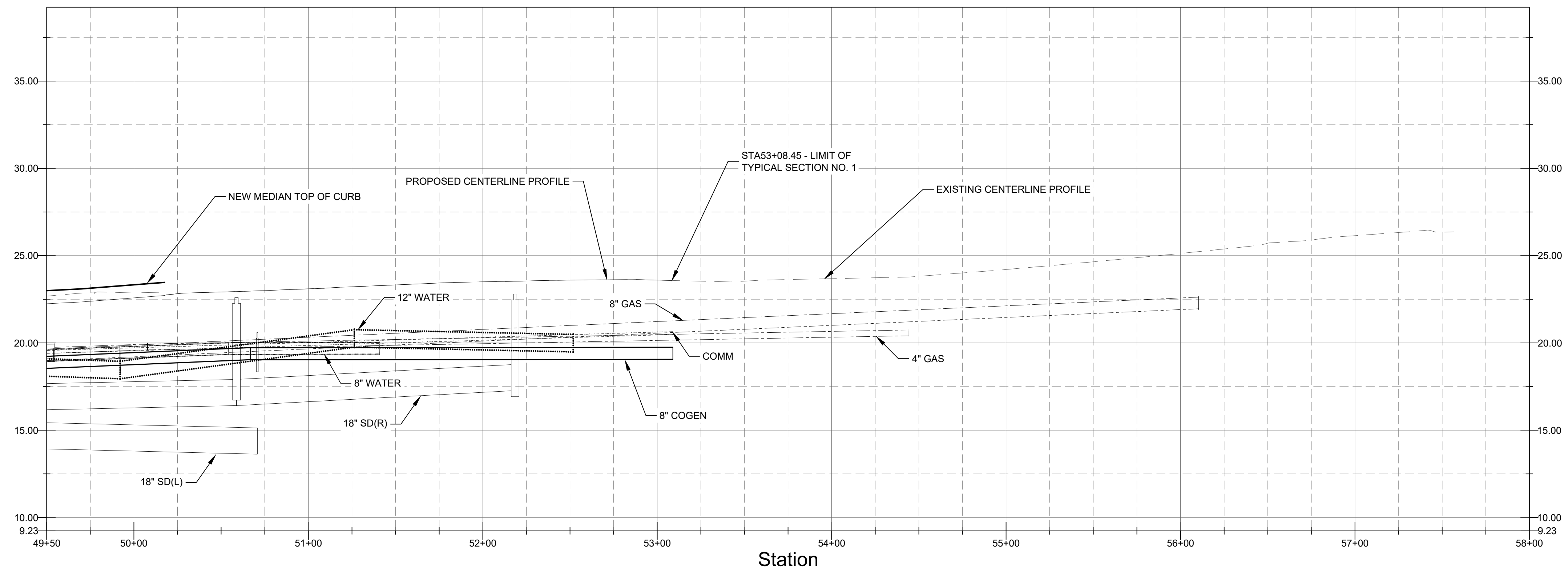
DRAWN BY: **JRE**  
PROJECT NUMBER: **200074**  
SCALE: **1" = 40'**  
VERIFY SCALE  
BAR REPRESENTS  
1" ON ORIGINAL  
DATE: **JULY 2020**  
SHEET NUMBER:

**P20**





**E. LOUISE AVENUE - PLAN VIEW**  
 1" = 40'



**E. LOUISE AVENUE - PROFILE VIEW**  
 HORIZONTAL: 1" = 40'  
 VERTICAL: 1" = 4'

**CONSTRUCTION NOTES:**

- 1 CONSTRUCT PCC MEDIAN CURB PER CITY OF LATHROP STANDARD DRAWINGS R-8 & R-20.
- 4 INSTALL STAMPED CONCRETE PER CITY OF LATHROP STANDARD DRAWINGS R-21B; MATCH EX. COLOR.

**LEGEND**

- |  |                          |  |                           |
|--|--------------------------|--|---------------------------|
|  | INSTALL STAMPED CONCRETE |  | GAS LINE (EX.)            |
|  | FENCE (EX.)              |  | STORM DRAIN LINE (EX.)    |
|  | COMMUNICATION LINE (EX.) |  | SANITARY SEWER LINE (EX.) |
|  | ELECTRICAL LINE (EX.)    |  | WATER LINE (EX.)          |
|  |                          |  | BORING LOCATION           |

Path: Z:\SHAREDR\DRIVE\ACTIVE PROJECTS\LATHROP, CITY OF\2007\TASK 01\DRAWING\2007\01\_SITE\01\_LATHROP.DWG, Plot Date: 7/6/2020 10:44 AM

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**CITY OF LATHROP**  
 LOUISE AVENUE PAVEMENT REHABILITATION PROJECT  
 STREET IMPROVEMENT PLANS - BID ALTERNATE 2  
 STA 49+50 TO STA 58+00



DRAWN BY: **JRE**  
 PROJECT NUMBER: **200074**  
 SCALE: **1" = 40'**  
 VERIFY SCALE  
 BAR REPRESENTS  
 1" ON ORIGINAL  
 DATE: **JULY 2020**  
 SHEET NUMBER:

**P21**







**GENERAL NOTES**

- THESE PLANS HAVE BEEN CHECKED BY THE CITY OF LATHROP AND/OR ITS AUTHORIZED REPRESENTATIVE, BUT SUCH CHECKING AND/OR APPROVAL DOES NOT RELIEVE THE DEVELOPER FROM HIS RESPONSIBILITY TO CORRECT ERRORS, OMISSIONS OR MAKE CHANGES REQUIRED BY CONDITIONS DISCOVERED IN THE FIELD DURING THE COURSE OF CONSTRUCTION.
- ALL REVISIONS TO THIS PLAN MUST BE REVIEWED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS STAMPED AND SIGNED BY THE CITY PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.
- ALL CONSTRUCTION AND MATERIAL SHALL CONFORM TO CITY OF LATHROP DESIGN AND CONSTRUCTION STANDARDS, THE PROJECT URBAN DESIGN CONCEPT (IF APPLICABLE), AND THE APPROVED PLANS. THE IMPROVEMENTS ARE SUBJECT TO INSPECTIONS AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT. CONTACT PUBLIC WORKS CONSTRUCTION INSPECTION AT (209) 941-7430, AT LEAST THREE (3) WORKING DAYS PRIOR TO START OF ANY WORK TO ARRANGE FOR INSPECTION.
- NOTIFY UNDERGROUND SERVICE ALERT (USA - NORTH) AT "811" OR (800) 227-2600 AT LEAST TWO (2) WORKING DAYS PRIOR TO EXCAVATION. THE USA AUTHORIZATION NUMBER SHALL BE KEPT AT THE JOB SITE.
- IF NECESSARY TO CONFIRM FIELD LOCATIONS OF FACILITIES, EXPLORATORY TRENCHING OR POTHOLING SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
- IF A CONFLICT OCCURS BETWEEN THE CITY OF LATHROP DESIGN AND CONSTRUCTION STANDARDS AND THE RECOMMENDATIONS BY THE DESIGN ENGINEER AND/OR SOILS ENGINEER, THE MORE STRINGENT SHALL APPLY AS DIRECTED BY THE CITY ENGINEER.
- BENCHMARK:  
FOUND 2" BRASS DISK STAMPED "LS4450" AT THE SOUTHWEST CORNER OF INTERSECTION OF LOUISE AVENUE AND 5TH STREET/HOWLAND ROAD, IN THE CURB, 4 FEET EAST OF A TRAFFIC SIGNAL POLE AT THE WEST EDGE OF THE HANDICAP RAMP. CITY OF LATHROP BM# 1026 ELEVATION = 22.37 FEET (NAV 88)
- THE EXISTING UTILITIES ARE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THESE UTILITIES. THE CONTRACTOR SHALL NOT EXCAVATE UNTIL ALL UTILITY AGENCIES AND THE CITY OF LATHROP HAVE BEEN NOTIFIED AND HAVE MARKED THEIR FACILITIES IN THE FIELD.
- EXISTING UTILITIES SHALL NOT BE INTERRUPTED UNTIL THE UTILITY COMPANY HAS PROVIDED ALTERNATIVE SERVICE FACILITIES. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH THE APPROPRIATE AGENCIES AND UTILITY COMPANIES.
- FINAL PAVEMENT WORK SHALL NOT OCCUR WITHIN THE CITY RIGHT-OF-WAY PRIOR TO COMPLETION OF UTILITY RELOCATION WITHOUT THE SPECIFIC APPROVAL OF THE CITY ENGINEER.
- ALL UTILITY TRENCHES IN EXISTING ROADWAY SHALL BE BACKFILLED AND OPENED TO PUBLIC TRAFFIC FOR A MINIMUM OF TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT.
- ALL CONSTRUCTION STAKING FOR GRADING, CURB, AND GUTTER, SIDEWALK, SANITARY SEWER, STORM DRAINS, WATER LINES, FIRE HYDRANTS, ELECTROLIERS, ETC. SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR A LICENSED LAND SURVEYOR.
- ALL AREAS UNDERGOING GRADING, AND ALL OTHER CONSTRUCTION ACTIVITIES SHALL BE WATERED, OR OTHER DUST-PALLIATIVE MEASURES USED, TO PREVENT DUST, AS CONDITIONS WARRANT. WATER TRUCKS SHALL BE AVAILABLE AT ALL TIMES. THE PERSON RESPONSIBLE FOR DUST CONTROL, SUSAN DELL'OSSO AT (209)879-7900, SHALL BE AVAILABLE 24 HOURS A DAY.
- PRIOR TO RECEIVING/TAKING ANY WATER FROM THE CITY OF LATHROP WATER SYSTEM THE CONTRACTOR SHALL ACQUIRE A CITY WATER METER OR CITY FIRE HYDRANT METER. ALL WATER USAGE SHALL BE METERED.
- ALL LINES ABANDONED DURING CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.
- PRIOR TO TRENCHING FOR ANY SEWER, WATER, RECYCLED WATER, OR STORM DRAIN PIPE, THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE SIZE AND THE LOCATION OF THE EXISTING PIPE AT THE POINT OF CONNECTION. ANY DEVIATION FROM THE PLANS SHALL BE RESOLVED BY THE DESIGN ENGINEER PRIOR TO TRENCHING. ANY DAMAGE CAUSED BY TRENCHING TO EXISTING UNDERGROUND UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH CITY STANDARD DETAILS. COMPACTION SHALL BE ACHIEVED BY MECHANICAL MEANS. NO FLOODING, PONDING, OR JETTING SHALL BE PERMITTED.
- TESTING:
  - ALL INDEPENDENT LABORATORY INSPECTIONS CALLED FOR BY THE CITY ENGINEER WILL BE PAID FOR BY THE DEVELOPER OR CONTRACTOR.
  - ROADWAY SUB-GRADE, SUB-BASE, BASE, AND TRENCH BACKFILL COMPACTION TESTING SHALL BE PERFORMED BY A SOILS LAB CONTRACTING WITH THE CITY OF LATHROP AT THE DEVELOPER'S EXPENSE.
  - R-VALUE TESTING OF THE PAVEMENT SUB-GRADE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF BASE ROCK, OR AS REQUIRED BY THE CITY ENGINEER.
  - A MINIMUM OF 48 HOURS NOTICE IS REQUIRED TO SCHEDULE ALL SPECIAL INSPECTION/TESTING SERVICES.
- EXISTING CURB, GUTTER AND SIDEWALKS WITHIN THE PROJECT LIMITS THAT ARE DAMAGED OR DISPLACED, SHALL BE REPAIRED OR REPLACED PER THE CITY DESIGN AND CONSTRUCTION STANDARDS BY THE CONTRACTOR.
- NO TREES SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THE IMPROVEMENT PLANS. ALL TREES CONFLICTING WITH GRADING, UTILITIES, OR OTHER IMPROVEMENTS, OR OVERHANGING THE SIDEWALK OR PAVEMENT TO FORM A NUISANCE OR HAZARD, SHALL BE TRIMMED AND PROPERLY TREATED AND SEALED. THE DRIP LINE OF TREES TO BE SAVED WILL BE FENCED, AND NO GRADING SHALL TAKE PLACE WITHIN THIS FENCED AREA.
- THE FULL STRUCTURAL SECTION OF THE MAJOR STREETS SHALL BE CONTINUED THROUGH THE INTERSECTIONS.
- BENCHMARKS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT LOCATIONS SHOWN. THE DEVELOPER'S ENGINEERS SHALL STAMP THE BENCHMARKS PER STANDARD DETAIL R-26 AND FURNISH THE CITY ENGINEER WITH THE BENCHMARK ELEVATION DATA.
- STREET SIGNS SHALL BE INSTALLED AT ALL INTERSECTIONS THAT MEET THE UDC STANDARDS (IF APPLICABLE) PER CITY DESIGN AND CONSTRUCTION STANDARDS.
- TRAFFIC CONTROL DEVICES AND INSTALLATIONS SHALL BE IN CONFORMANCE WITH CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), AND MUST MEET THE UDC STANDARDS (IF APPLICABLE).
- ALL STREET MONUMENTS, LOT CORNER, BENCHMARKS AND OTHER PERMANENT PIPE OR MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED BY A LICENSED CIVIL ENGINEER OR SURVEYOR PRIOR TO ACCEPTANCE OF IMPROVEMENTS BY THE CITY.  
  
IF A MONUMENT IS LOCATED WITHIN THE BOUNDARY OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT THE ACKNOWLEDGEMENT OF MONUMENT RESPONSIBILITY "PRE-CONSTRUCTION" FORM, FOUND IN APPENDIX E OF THESE STANDARDS, TO THE CITY DURING THE ENCROACHMENT PERMIT APPLICATION PHASE. IN ADDITION, THE CONTRACTOR SHALL SUBMIT THE ACKNOWLEDGEMENT OF MONUMENT RESPONSIBILITY "POST-CONSTRUCTION" FORM, FOUND IN APPENDIX E OF THESE STANDARDS, TO THE CITY WHEN WORK IS COMPLETE.
- ESCPs MUST BE PREPARED CONSISTENT TO THE CITY'S DESIGN AND CONSTRUCTION STANDARDS AND ORDINANCES. SWPPPS MUST BE PREPARED BY A QUALIFIED SWPPP DEVELOPER AND BE COMPLIANT WITH THE STATE'S CONSTRUCTION GENERAL PERMIT. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AT ALL TIMES DURING THE CONSTRUCTION PROJECT UNTIL FINAL SITE STABILIZATION IS ACHIEVED. THE PERSON RESPONSIBLE FOR THE DAILY MAINTENANCE OF THE FACILITIES IS SUSAN DELL'OSSO AND CAN BE REACHED 24 HOURS A DAY AT (209) 879-7900. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION-CAUSED SEDIMENT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SEDIMENT-FREE STORM WATER INTO EXISTING STORM DRAIN FACILITIES.
- IF THE PROJECT IS APPLICABLE TO THE STATE'S CONSTRUCTIONS GENERAL PERMIT, A NOTICE OF INTENT (NOI) TO COMPLY WITH THE NPDES GENERAL PERMIT FOR STORMWATER RUN-OFF ASSOCIATED WITH CONSTRUCTION ACTIVITY SHALL BE SUBMITTED TO THE SWRCB VIA THE STATE'S SMARTS SYSTEM. THE WID# SHOULD BE INDICATED ON THE PLANS. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE SUBMITTED FOR APPROVAL BY THE CITY ENGINEER.
- IF, DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED, AN ARCHAEOLOGIST CONSULTED AND THE CITY COMMUNITY DEVELOPMENT DEPARTMENT NOTIFIED. IF, IN THE OPINION OF THE ARCHAEOLOGIST, THE REMAINS ARE SIGNIFICANT, MEASURES, AS MAY BE REQUIRED BY THE COMMUNITY DEVELOPMENT DIRECTOR, SHALL BE TAKEN TO PROTECT THEM.
- WORK SHALL BE RESTRICTED TO WEEKDAYS BETWEEN 8:00 AM TO 5:00 PM AND WEEKENDS BY CITY APPROVAL WORK WHICH REQUIRES ANY TRAFFIC LANE CLOSURES OR RESTRICTING OF THE TRAVELED WAY SHALL BE LIMITED TO 9:00 AM TO 3:30 PM IN THE COMMUTE DIRECTION AND 8:00 AM TO 4:30 PM IN THE NON-COMMUTE DIRECTION.

- THE OVERTIME COST FOR INSPECTION REQUESTED BEFORE 8:00 AM, AFTER 5:00 PM, WEEKENDS, AND HOLIDAYS, THAT REQUIRE CITY INSPECTION, SHALL BE PRE-PAID BY THE CONTRACTOR OR DEVELOPER BEFORE THE WORK IS AUTHORIZED.
- CONSTRUCTION EQUIPMENT WHICH OPERATES AT A NOISE LEVEL IN EXCESS OF 85 DECIBELS (MEASURED ON THE A-WEIGHTED SCALE DEFINED IN ANSI S-1.4) AT A DISTANCE OF 100 FEET FROM THE EQUIPMENT IS PROHIBITED.
- THE CONTRACTOR SHALL KEEP EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAIN DOWN A MINIMUM OF 2 FEET BELOW BOTTOM OF EXCAVATIONS TO MAINTAIN AN UNDISTURBED STATE OF NATURAL SOILS AND ALLOW PLACEMENT OF FILL TO THE SPECIFIED DENSITY. DISPOSAL OF WATER SHALL NOT DAMAGE PROPERTY OR CREATE A PUBLIC NUISANCE. CONTRACTOR SHALL DETERMINE METHOD OF DEWATERING AND LOCATION FOR DISCHARGE/DISPOSAL.
- DISPOSAL OF WATER INTO THE CITY SANITARY SEWER SYSTEM IS STRICTLY PROHIBITED.
- DISPOSAL OF WATER INTO THE EXISTING STORM DRAIN SYSTEM MUST BE APPROVED IN WRITING BY THE CITY ENGINEER PRIOR TO DISPOSAL.
- CONTRACTOR SHALL MAINTAIN ALL STREETS SIDEWALKS, AND OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE, AND USABLE CONDITION THROUGHOUT THE COURSE OF CONSTRUCTION. ALL SPILLAGE OF SOIL, ROCK, CONSTRUCTION DEBRIS, ETC., SHALL BE REMOVED IMMEDIATELY FROM PUBLICLY OWNED PROPERTY. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE, AND USABLE CONDITION. THE CONTRACTOR SHALL PROVIDE FOR SAFE, UNOBSTRUCTED ACCESS TO PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE TO THE PUBLIC WORKS DEPARTMENT THE NAME AND TELEPHONE NUMBER OF THE RESPONSIBLE PERSON AVAILABLE 24 HOURS A DAY IF ANY PROBLEMS OR CONDITIONS ARE NOT MET.
- ALL TRASH, CONSTRUCTION DEBRIS AND MATERIALS SHALL BE CONTAINED WITHIN PROPER CONTAINERS AND REMOVED ON A WEEKLY BASIS.
- THE CONTRACTOR SHALL KEEP ADJOINING PUBLIC STREETS AND PARKING AREAS FREE AND CLEAN OF PROJECT DIRT, MUD, AND MATERIALS DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTIVE MEASURES AS DIRECTED BY THE PUBLIC WORKS INSPECTOR AT NO EXPENSE TO THE CITY.
- A BUILDING PERMIT IS REQUIRED FOR CONSTRUCTION OF ALL RETAINING WALLS OVER 4 FEET IN HEIGHT MEASURED FROM THE BOTTOM OF THE FOOTING TO THE TOP OF THE WALL. PRIOR TO ACCEPTANCE OF THE IMPROVEMENTS AS COMPLETE, VERIFICATION THAT BUILDING INSPECTION HAS SIGNED OFF ON THE PERMIT SHALL BE PROVIDED TO THE PUBLIC WORKS INSPECTOR. ALL WOOD IN CONTACT WITH THE GROUND SHALL BE PRESSURE-TREATED, WHETHER A CONSTRUCTION PERMIT IS REQUIRED OR NOT.
- THE MANNER OF BRACING AND SHORING EXCAVATIONS SHALL BE AS SET FORTH IN THE RULES, ORDERS AND REGULATIONS OF THE STATE OF CALIFORNIA CONSTRUCTION SAFETY ORDERS, DIVISION OF INDUSTRIAL SAFETY.
- CONTRACTORS MAY BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER TO PROVIDE DRAWINGS OR CALCULATIONS BY A REGISTERED ENGINEER FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION FOR SPECIALLY DESIGNED BRACING AND SHORING OF AN EXCAVATION WHERE STANDARD PRE-MANUFACTURED BRACING OR SHORING CANNOT BE USED.
- CONTRACTORS SHALL SUBMIT A COPY OF THEIR CURRENT ANNUAL EXCAVATION PERMIT ISSUED BY THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY (CAL-OSHA) ALONG WITH THE CONTRACTOR'S OWN TRENCH SAFETY PLAN PRIOR TO THE START OF CONSTRUCTION.
- PRIOR TO ANY WORK BEING PERFORMED, THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF LATHROP. THE CONTRACTOR SHALL PROVIDE THE CITY OF LATHROP 72 HOURS NOTICE TO SCHEDULE THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL ALSO NOTIFY THE BELOW LISTED PROJECT CONTACTS A MINIMUM OF 72 HOURS IN ADVANCE OF SAID MEETING.
- ALL GRADING SHALL BE DONE IN ACCORDANCE WITH RECOMMENDATIONS IN THE GEOTECHNICAL AND FOUNDATION INVESTIGATION PREPARED FOR THIS SITE BY 825-1-2, DATED CORNERSTONE EARTH GROUP, FILE NO. JULY 28, 2015.

**WATER NOTES**

- WATER LINES SHALL BE LOCATED A MINIMUM OF 10 FEET HORIZONTALLY FROM SEWER MAINS. CROSSING SHALL MEET STATE HEALTH STANDARDS. SEWER LINE NEEDS TO BE ONE (1) FOOT BELOW WATER LINE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND DISINFECTING OF WATER LINES IN CONFORMANCE WITH THE REQUIREMENTS OF THE CITY OF LATHROP PRIOR TO FINAL ACCEPTANCE. ALL WATER LINES SHALL BE PRESSURE-TESTED, DISINFECTED, FLUSHED, AND TESTED FOR BACTERIA IN CONFORMANCE WITH SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS PRIOR TO FINAL ACCEPTANCE BY THE CITY. THE MAXIMUM LENGTH OF PIPELINE TO BE TESTED AT A TIME SHALL BE LIMITED TO 5,000 FEET. ALL NEW VALVES SHALL BE EXERCISED DURING THE PRESSURE TEST.
- ACTUAL CONNECTIONS TO EXISTING CITY OF LATHROP WATER LINES WILL NOT BE PERMITTED PRIOR TO COMPLETION OF STERILIZATION AND TESTING OF THE WATER MAINS. ALL EXISTING WATER VALVES ARE TO BE OPERATED UNDER THE DIRECTION OF THE CITY OF LATHROP PUBLIC WORKS DEPARTMENT OR AUTHORIZED CITY OF LATHROP PERSONNEL ONLY.
- WATER SERVICES SHALL BE AS PER SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS AND STANDARD DETAILS FOR WATER.
- THE LOCATION OF WATER SERVICES IN NEW SUBDIVISIONS SHALL BE MARKED BY THE CONCRETE CONTRACTOR WITH THE LETTER "W" STAMPED ON THE TOP CURB. THE UNDERGROUND CONTRACTOR SHALL PROVIDE SUFFICIENT RECORDS AND SHALL LEAVE ADEQUATE MARKS IN THE FIELD FOR THE CONCRETE CONTRACTOR TO ACCURATELY STAMP THE LETTER "W" FOR ALL WATER SERVICES, PRIOR TO THE PLACING OF ANY SIDEWALK OR CURB AND GUTTER. THE CONCRETE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL DRIVeways AND WATER SERVICES BEFORE POURING THE CURB, AND FURNISH DATA TO THE CITY OF LATHROP'S FIELD INSPECTOR SHOWING HE HAS ADEQUATE INFORMATION TO ACCURATELY FIELD LOCATE AND MARK THE LETTER "W" TO BE STAMPED IN THE CURB. PRIOR TO THE FINAL TROWELING OF THE CONCRETE, THE CITY OF LATHROP'S CONSTRUCTION INSPECTOR SHALL VERIFY THAT THE LETTER "W" HAS BEEN STAMPED IN THE PROPER LOCATION.
- THE TYPICAL ANGLE METER STOP AT THE END OF THE WATER SERVICE SHALL BE PER SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS AND STANDARD DETAILS FOR WATER.
- ALL DEAD ENDS, CAPPED OR FLANGED, INCLUDING FUTURE SERVICE STUBS, TEES, ELBOW BENDS AND BLOW-OFFS, TEMPORARY OR PERMANENT, SHALL HAVE THRUST BLOCKS INSTALLED AS PER SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS, AND PER STANDARD DETAILS FOR WATER, OTHERWISE MEGALUG JOINT RESTRAINTS MUST BE PROVIDED.
- FIRE HYDRANTS TEES ARE TO BE PLACED AT LOCATIONS APPROVED BY THE FIRE DISTRICT OR AS SHOWN ON THE PLANS.
- FLANGE JOINTS ARE REQUIRED WHEN INSTALLING FOUR INCH (4") AND LARGER LINE VALVES IN STEEL PIPE. NO OTHER TYPE OF JOINT SHALL BE USED WITHOUT SPECIFIC APPROVAL OF THE CITY ENGINEER.
- ALL CONSTRUCTION WATER PURCHASED FROM THE CITY OF LATHROP SHALL BE METERED BY USE OF A CITY HYDRANT METER.
- ALL CONNECTIONS AND SERVICE TAPS TO EXISTING CITY OF LATHROP MAINS SHALL BE MADE WITHOUT DEPRESSURIZING THE MAIN, UNLESS PRIOR APPROVAL IS GIVEN BY THE CITY ENGINEER.
- FIRE HYDRANTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE SECTION 4 OF THE DESIGN AND CONSTRUCTION STANDARDS AND STANDARD DETAILS FOR WATER.
- ALL NUT/BOLT KITS TO BE INSTALLED BELOW GRADE SHALL BE 316 GRADE STAINLESS STEEL OR APPROVED EQUAL.
- ALL HYDRANTS SHALL BE NUMBERED ON THE PLANS USING NOMENCLATURE APPROVED BY THE PUBLIC WORKS DIRECTOR.

**SPECIAL NOTES**

- ANY EXISTING IMPROVEMENTS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REMOVED, REPLACED, AND FULLY RESTORED TO ITS' ORIGINAL CONDITION AT THE DEVELOPER'S COST. ALL WORK SHALL BE APPROVED BY THE CITY ENGINEER.
- DEVELOPER/CONTRACTORS WORK SHALL BE IN ACCORDANCE WITH THE SJVAPCD GUIDELINES, INCLUDED SJVAPCD REGULATION VIII AND IMPLEMENT CONTROL MEASURES BASED ON SJVAPCD COMPLIANCE ASSISTANCE BULLETIN FOR SHORT TERM IMPACTS. SJVAPCD SHALL BE CONTACTED TO DISCUSS MITIGATION MEASURES AND IMPLEMENT MEASURES FROM TABLE 6-4 OF THE GUIDE FOR ASSESSING AND MITIGATION AIR QUALITY IMPACTS.
- ALL PLASTIC PIPES SHALL HAVE TRACE WRES.
- IF MOISTURE OR WATER IS FOUND WHEN TRENCHING, THE CONTRACTOR WILL IMMEDIATELY HALT WORK UNTIL DEWATERING PLANS FOR ALL TRENCHES SHALL BE SUBMITTED FOR APPROVAL BY THE CITY ENGINEER.
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYWRAP.
- ANY WORK IN THE INTERSECTION WILL BE COMPLETED DURING NIGHTTIME HOURS.
- MONUMENT PRESERVATION: CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY CONTROL. ANY MONUMENTS OR OTHER SURVEY CONTROL WHICH MAYBE DESTROYED DURING CONTRACTORS WORK SHALL BE REFERENCED THROUGH A PRE-CONSTRUCTION CORNER RECORD PREPARED BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER PRIOR TO THE TIME OF THE CONTRACTORS WORK. MONUMENT REPLACEMENT SHALL BE PER CITY OF LATHROP STANDARD DETAIL R-27. REFERENCE OF ALL SURVEY MONUMENTS AND OTHER SURVEY CONTROL SHALL BE AT SOLE EXPENSE OF THE CONTRACTOR. POST-CONSTRUCTION CORNER RECORD MUST ESTABLISH MONUMENT DESTROYED BY CONSTRUCTION.
- TRAFFIC CONTROL PLANS WILL BE PROVIDED BY THE CONTRACTOR WHEN THEY APPLY FOR THE ENCROACHMENT PERMIT.
- CONTRACTOR TO FOLLOW BEST MANAGEMENT PRACTICE SET FORTH BY THE SWPPP. WID #5539C376864.
- ALL STRIPING REMOVED WILL BE RESTORED TO ORIGINAL CONFIGURATION WITH MATERIALS APPROVED PER CITY OF LATHROP STANDARD SPECIFICATIONS 6-5.12 STRIPING AND MARKINGS.

**STREET NOTES**

- PRIOR TO PLACING CURB AND GUTTER, SIDEWALK, ASPHALT CONCRETE, SUBBASE, OR BASE MATERIAL, ALL UNDERGROUND FACILITIES WITHIN THE RIGHT-OF-WAY SHALL BE INSTALLED, BACKFILL COMPLETED, AND THE PUBLIC WORKS DEPARTMENT CONSTRUCTION INSPECTION DIVISION NOTIFIED THAT THE UTILITY INSTALLATION HAS SATISFACTORILY PASSED ACCEPTANCE TESTS BY EACH OF THE UTILITY COMPANIES HAVING FACILITIES WITHIN THE WORK AREAS.
- WHEN WIDENING THE PAVEMENT ON AN EXISTING ROAD, THE EXISTING PAVEMENT SHALL BE SAWCUT TO A NEAT LINE AND REMOVED BACK TO AN EXISTING SOUND STRUCTURAL SECTION AS DETERMINED BY THE CITY ENGINEER. AN EXPLORATORY TRENCH, OR POTHOLING, MAY BE REQUIRED TO DETERMINE THE LIMITS OF PAVEMENT REMOVAL.
- STREET STRIPING SHALL INCLUDE STOP BARS, CENTERLINE STRIPING OR MARKERS, CROSSWALKS AND ALL OTHER MARKINGS REQUIRED BY THE CITY ENGINEER. ALL STRIPING SHALL BE DONE WITH THERMOPLASTIC AND REFLECTIVE MARKERS. ALL STRIPING SHALL BE CAT-TRACKED PRIOR TO FINAL INSTALLATION. FINAL INSTALLATION WILL BE ALLOWED ONLY AFTER APPROVAL OF THE STRIPING LAYOUT BY THE CONSTRUCTION INSPECTOR.
- THE THICKNESS OF SUBBASE, BASE, AND SURFACING SHALL BE AS APPROVED ON THESE PLANS.
- FOG SEAL AT ASPHALT CONCRETE. THE TYPE OF FOG SEAL USED SHALL BE PER SECTION 37 OF CALTRANS STANDARD SPECIFICATIONS LATEST EDITION AND APPROVED BY THE CITY OF LATHROP PRIOR TO USE.
- THERE SHALL BE A 2.5% MINIMUM CROSS SLOPE ON THE CONSTRUCTION OF ALL NEW MINOR STREETS AND LOCAL STREETS. THERE SHALL BE A 2% CROSS SLOPE ON THE CONSTRUCTION OF ALL OTHER STREETS.
- ALL TERMINATED STREETS WITHOUT CUL-DE-SACS SHALL HAVE A BARRICADE INSTALLED IN ACCORDANCE WITH STANDARD DETAIL R-24 OF THE STANDARD DETAILS.
- ALL MANHOLE RIMS, LAMPHOLES, VALVES, AND MONUMENT BOXES, ETC. SHALL BE ADJUSTED TO FINISH GRADE AFTER STREET PAVING BY THE UNDERGROUND CONTRACTOR AFTER THE FINAL PAVING COURSE IS PLACED, UNLESS OTHERWISE NOTED. COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR MANHOLES.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING MONUMENTS AND HAVE THE ENGINEER/LAND SURVEYOR TIE OUT BEFORE THE SETTING OF ALL NEW MONUMENTS. ALL SURVEY MONUMENT WELLS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT LOCATIONS SHOWN. DEVELOPER'S ENGINEER/LAND SURVEYOR SHALL SET AND STAMP ALL MONUMENTS AND FURNISH THE CITY ENGINEER WITH A COPY OF A TIE PLAT FOR EACH MONUMENT.
- UTILITY BOXES SET IN PAVED STREETS SHALL HAVE H-20 TRAFFIC RATING LIDS.

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CITY OF LATHROP  
LOUISE AVENUE WATER TRANSMISSION  
MAIN PROJECT (CIP PS 18-01)

**GENERAL NOTES**



APPROVED: *Tian Ang Zhang*

DESIGNED:	JLL
DRAWN:	JPJ
CHECKED:	RIC
SCALE:	N/A
DATE:	7/7/20
JOB NO.:	37810
FILE NO.:	IP02.DWG

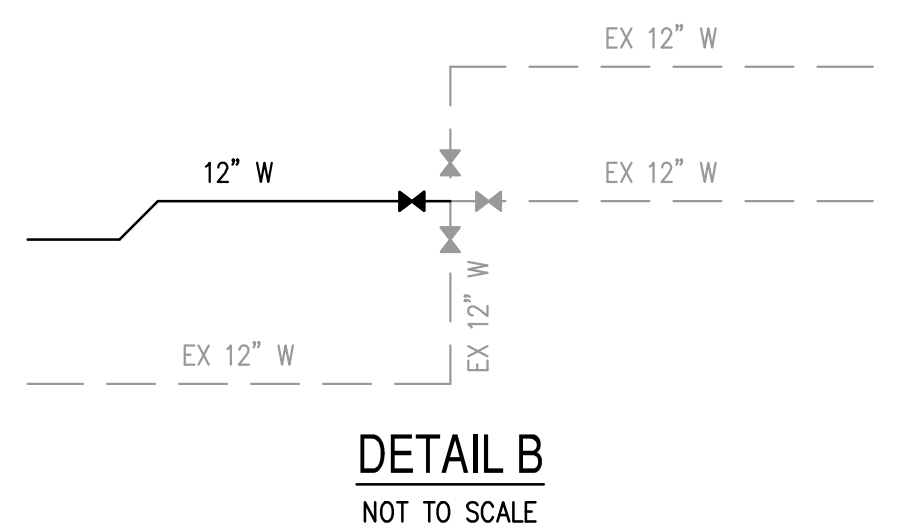
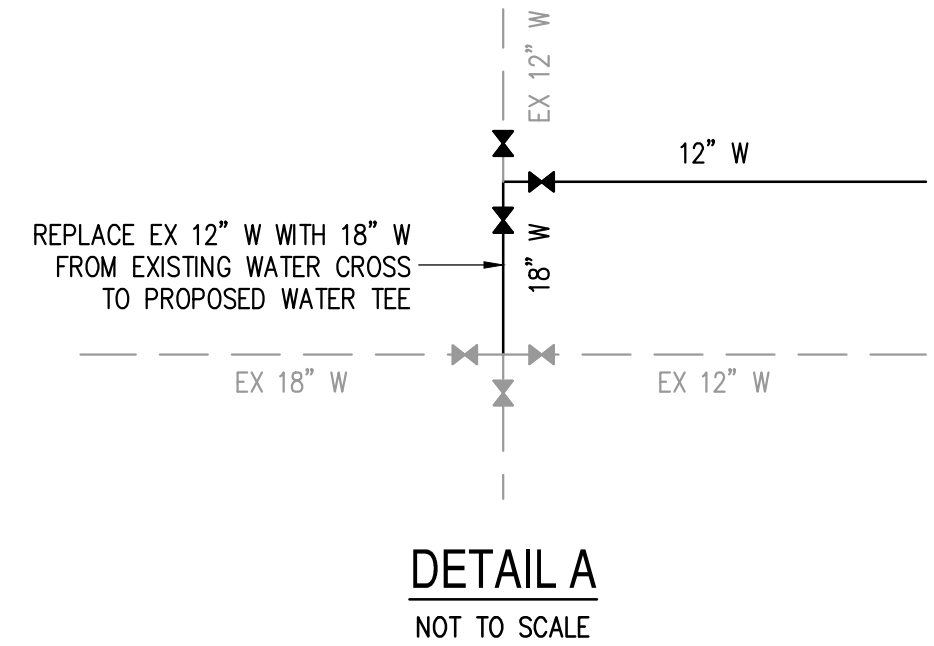
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**W2**  
OF  
**10**



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REV. NO.	DATE	APPLICABLE SHEETS/REVISIONS

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CITY OF LATHROP  
 LOUISE AVENUE WATER TRANSMISSION  
 MAIN PROJECT (CIP PS 18-01)

DETAILS



APPROVED: *[Signature]*

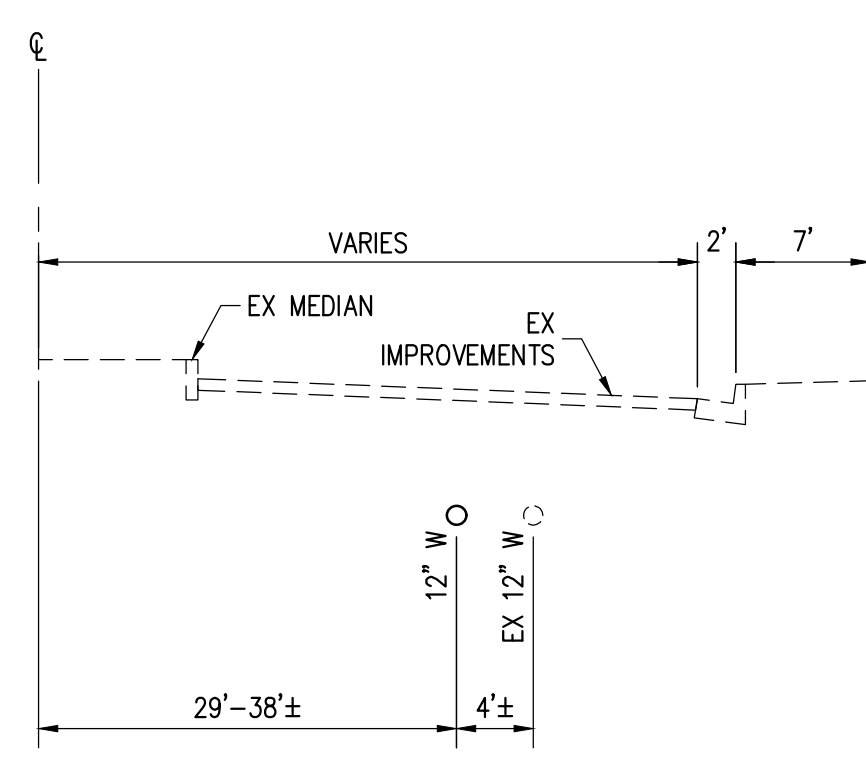
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JOB NO.:	37810
FILE NO.:	IP03.DWG

SHEET NO.  
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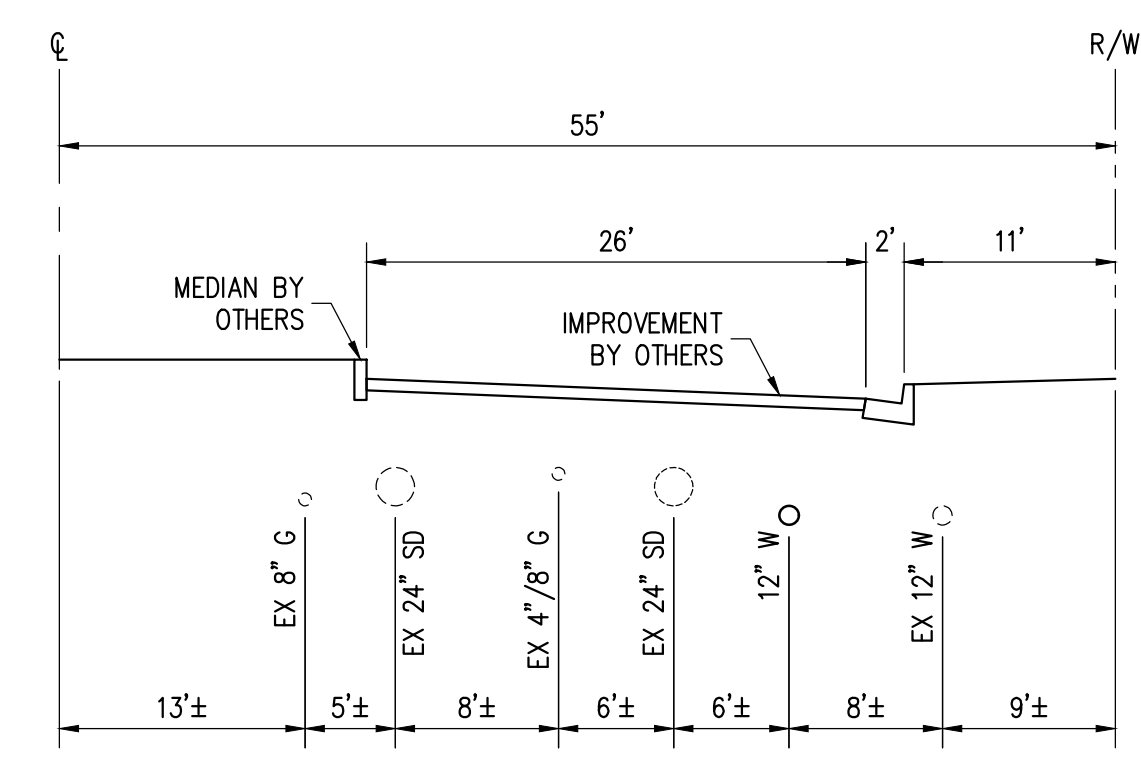


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REV. NO.	DATE	APPLICABLE SHEETS/REVISIONS

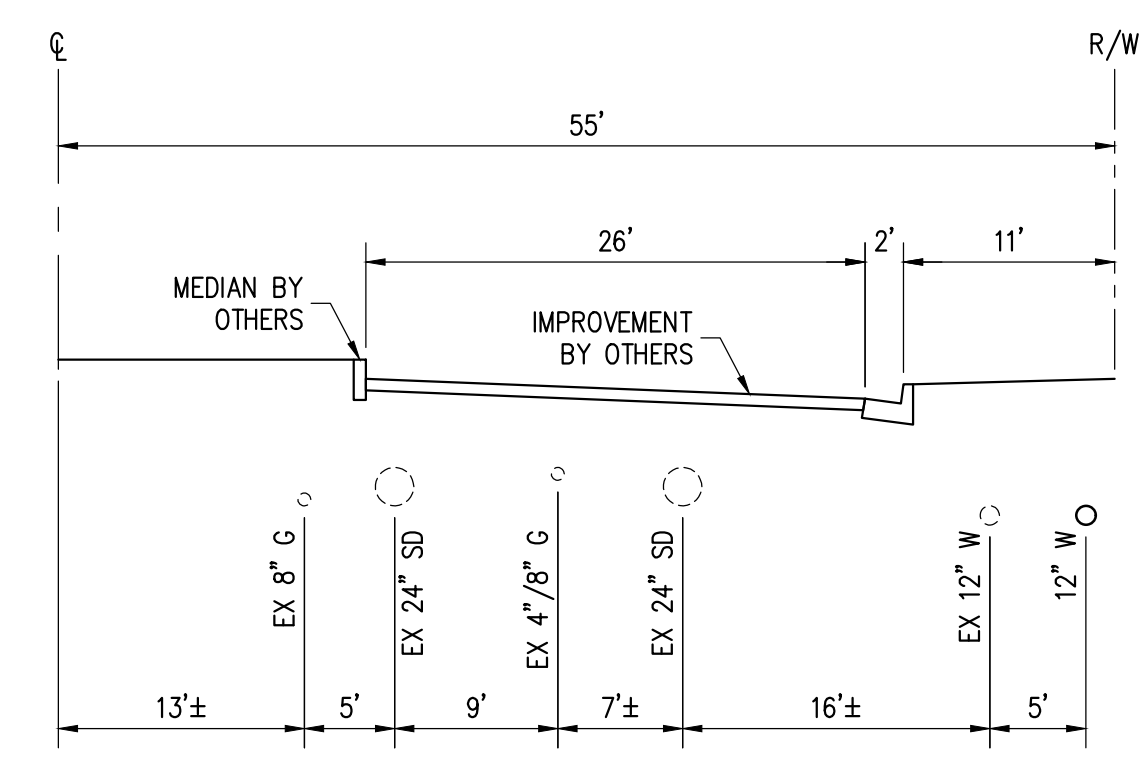
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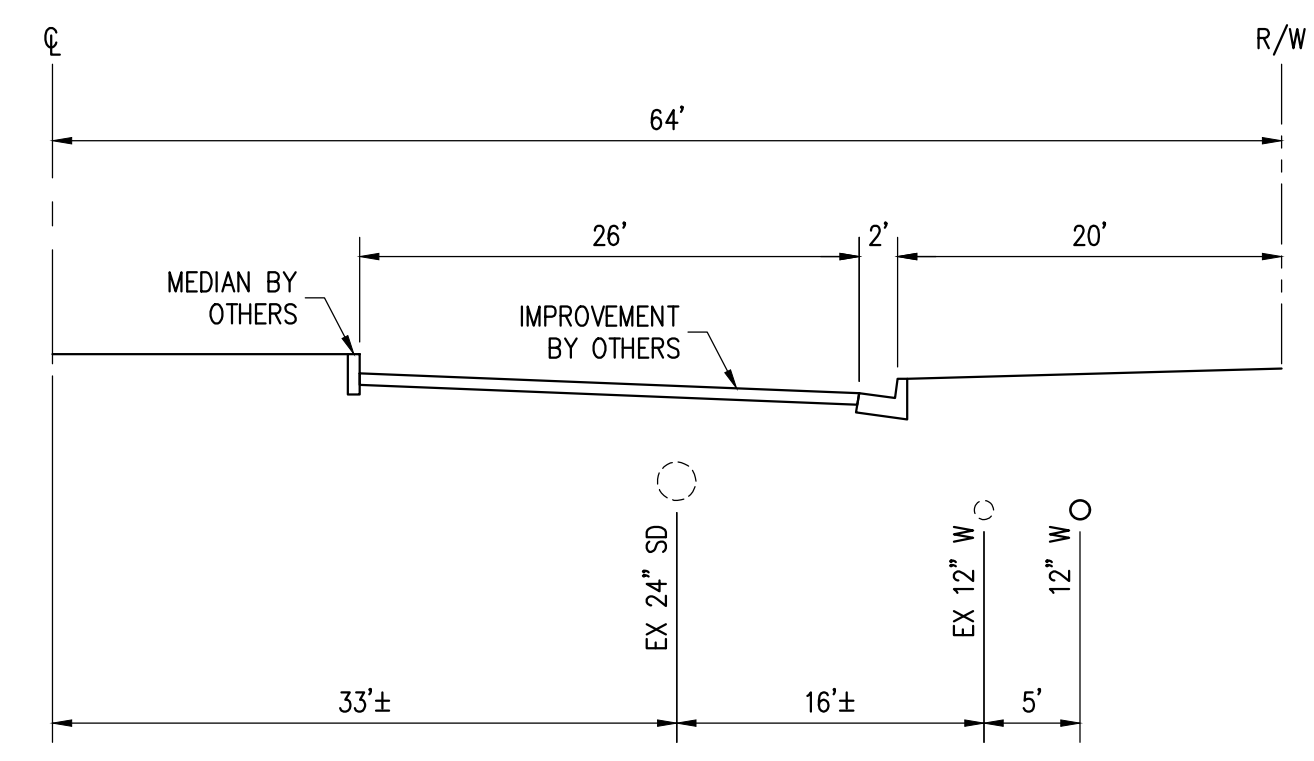
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NOT TO SCALE



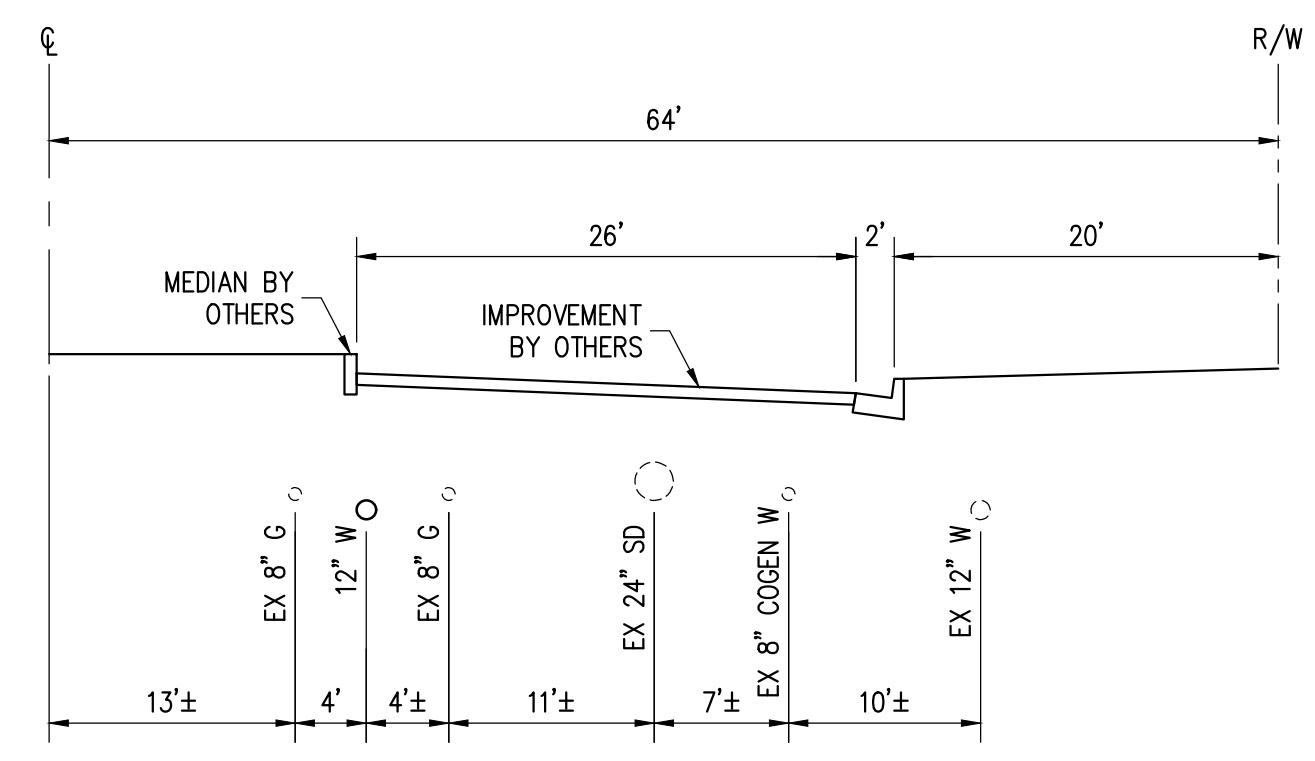
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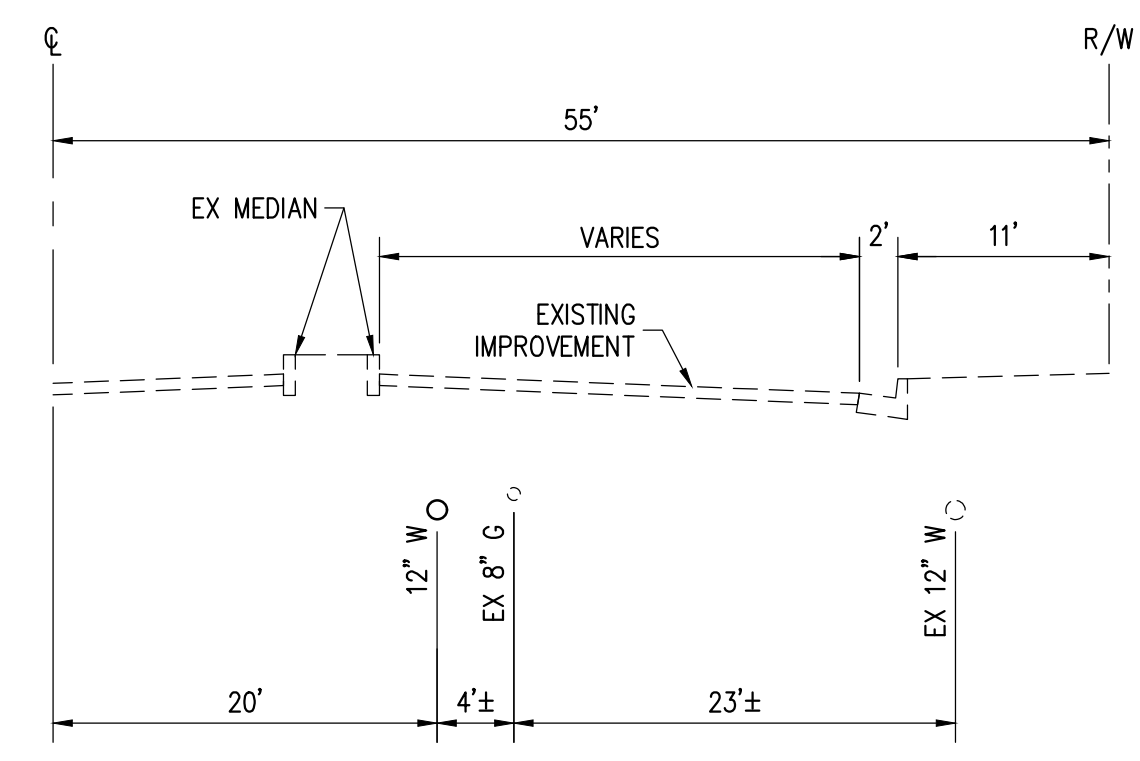
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NOT TO SCALE



**E** TYPICAL SECTION  
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NOT TO SCALE



**F** TYPICAL SECTION  
(STA 51+00 TO END)  
NOT TO SCALE

CITY OF LATHROP  
LOUISE AVENUE WATER TRANSMISSION  
MAIN PROJECT (CIP PS 18-01)

CROSS SECTIONS



APPROVED: *[Signature]*

DESIGNED:	JLL
DRAWN:	JPJ
CHECKED:	RIC
SCALE:	N/A
DATE:	7/7/20
JOB NO.:	37810
FILE NO.:	IP04.DWG



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 LOUISE AVENUE WATER TRANSMISSION  
 MAIN PROJECT (CIP PS 18-01)

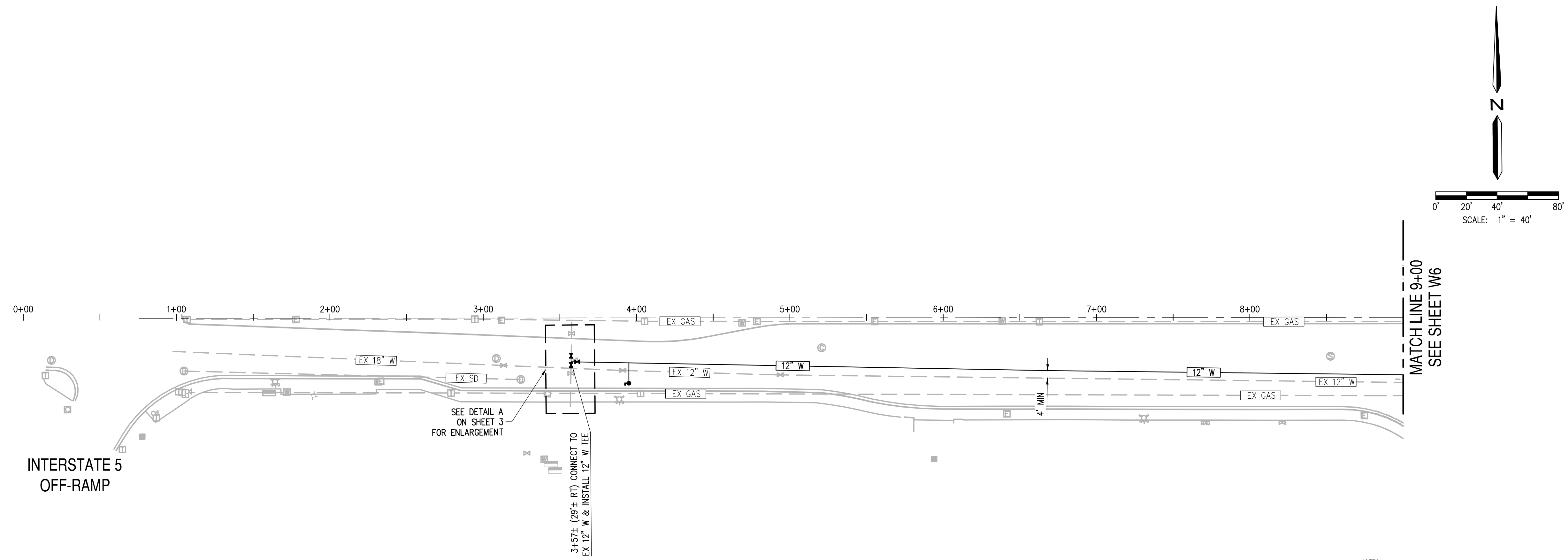
EAST LOUISE AVENUE WATER  
 MAIN (STA 1+00 TO STA 9+00)



APPROVED: *[Signature]*

DESIGNED: JLL  
 DRAWN: JPJ  
 CHECKED: RIC  
 SCALE: 1" = 40'  
 DATE: 7/7/20  
 JOB NO.: 37810  
 FILE NO.: IPO5.DWG

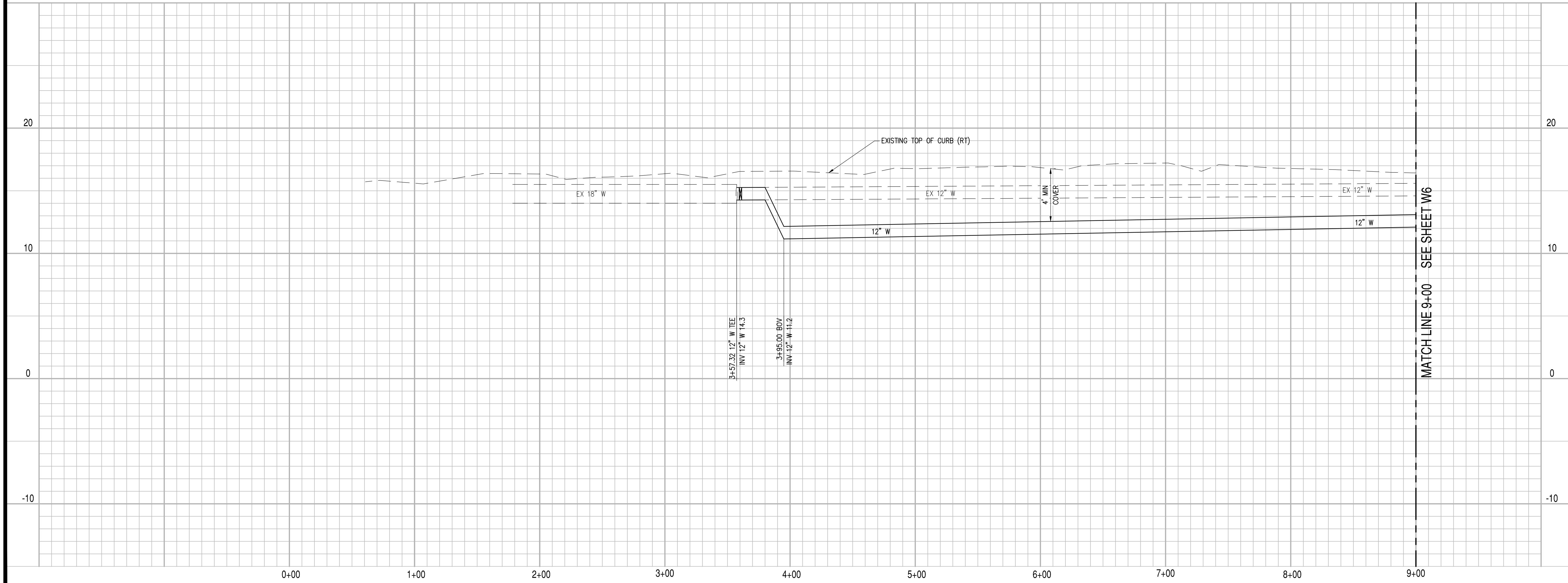
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**EAST LOUISE AVENUE WATER MAIN (STA 1+00 TO STA 9+00)**

SCALE: HORIZONTAL 1" = 40'  
 VERTICAL 1" = 4'

- NOTES:
- PROPOSED WATER LINE IS DESIGNED WITHOUT THE BENEFIT OF POT-HOLING AND RELYING ON CITY PROVIDED PLANS. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES INVERT AND LOCATION PRIOR TO ESTABLISH CONNECTIONS.
  - PROPOSED WATER LINE SHALL MAINTAIN MIN. 1' OF VERTICAL SEPARATION FROM OTHER UTILITIES AT CROSSINGS.
  - WHEN WATER COVER IS LESS THAN 4', PLACE CONCRETE CAP OVER PIPE.





PLAN REVISIONS:		
REV. NO.	DATE	APPLICABLE SHEETS/REVISIONS

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LOUISE AVENUE WATER TRANSMISSION  
MAIN PROJECT (CIP PS 18-01)

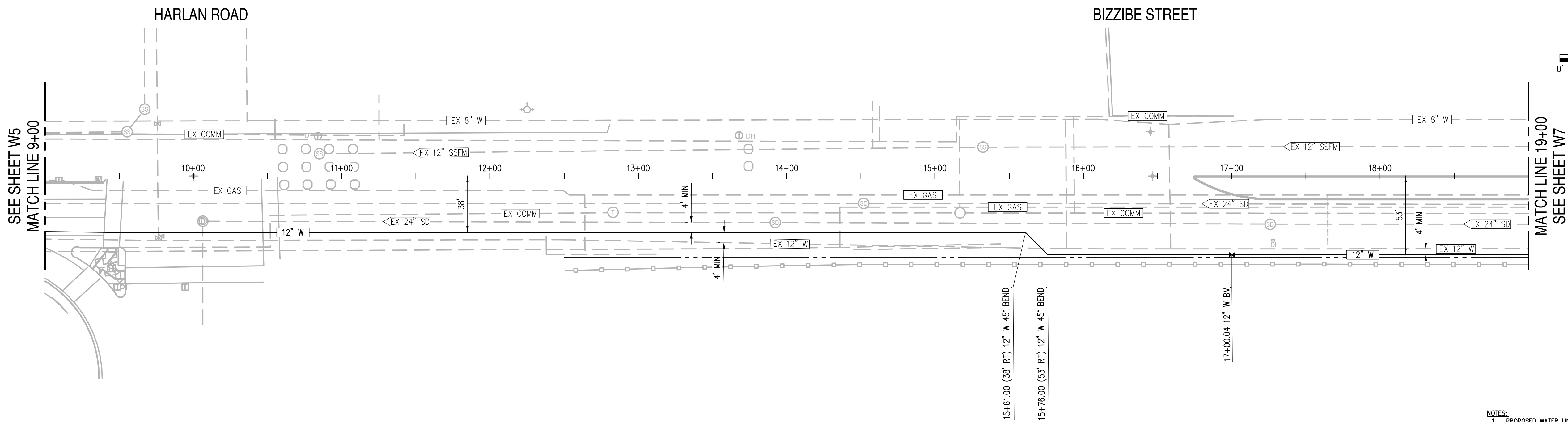
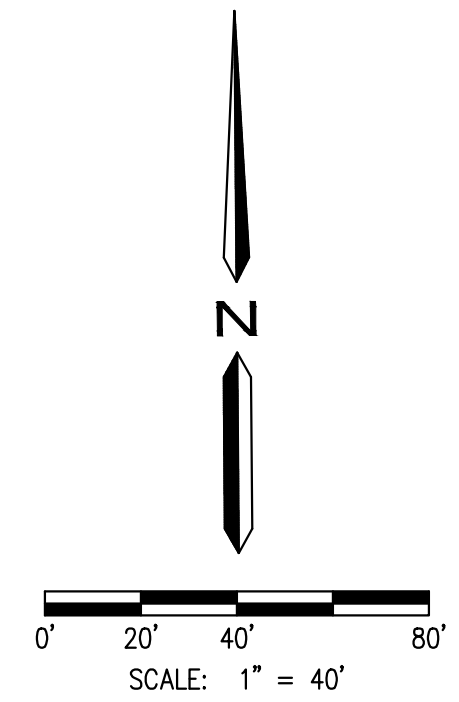
EAST LOUISE AVENUE WATER  
MAIN (STA 9+00 TO STA 19+00)



APPROVED: *[Signature]*

DESIGNED:	JLL
DRAWN:	JPJ
CHECKED:	RIC
SCALE:	1" = 40'
DATE:	7/7/20
JOB NO.:	37810
FILE NO.:	IPO6.DWG

SHEET NO.  
**W6**  
OF  
**10**

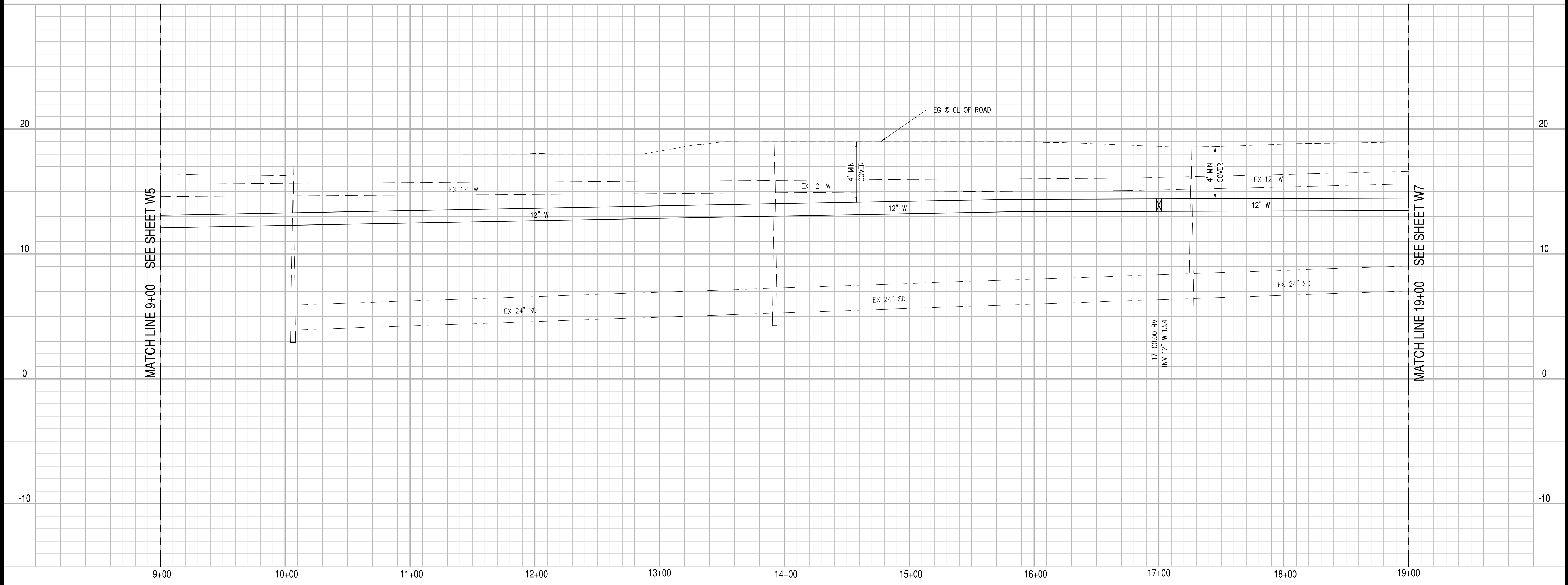


**EAST LOUISE AVENUE WATER MAIN (STA 9+00 TO STA 19+00)**

SCALE: HORIZONTAL 1" = 40'  
VERTICAL 1" = 4'

**NOTES:**

1. PROPOSED WATER LINE IS DESIGNED WITHOUT THE BENEFIT OF POT-HOLING AND RELYING ON CITY PROVIDED PLANS. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES INVERT AND LOCATION PRIOR TO ESTABLISH CONNECTIONS.
2. PROPOSED WATER LINE SHALL MAINTAIN MIN. 1' OF VERTICAL SEPARATION FROM OTHER UTILITIES AT CROSSINGS.
3. WHEN WATER COVER IS LESS THAN 4', PLACE CONCRETE CAP OVER PIPE.





PLAN REVISIONS:		
REV. NO.	DATE	APPLICABLE SHEETS/REVISIONS

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**CITY OF LATHROP**  
**LOUISE AVENUE WATER TRANSMISSION**  
**MAIN PROJECT (CIP PS 18-01)**

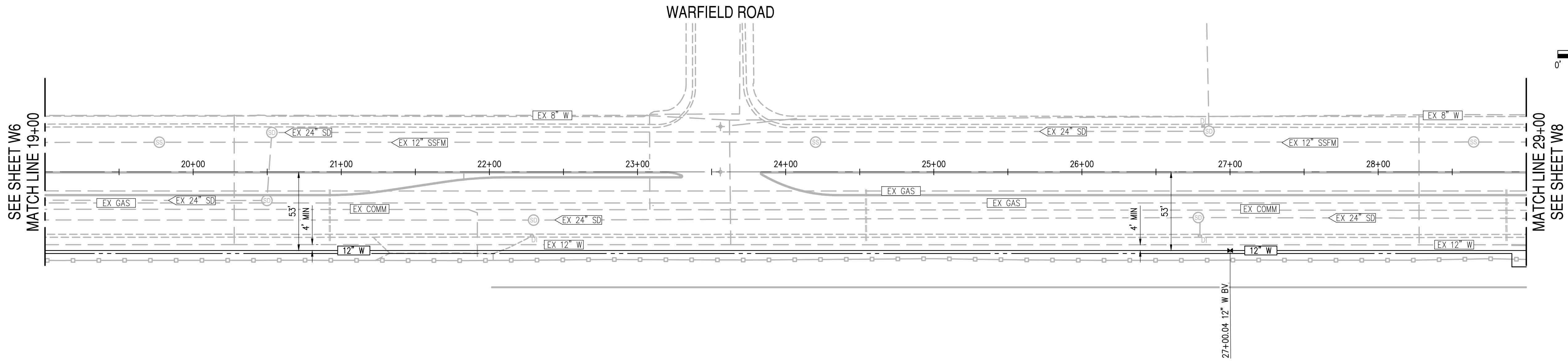
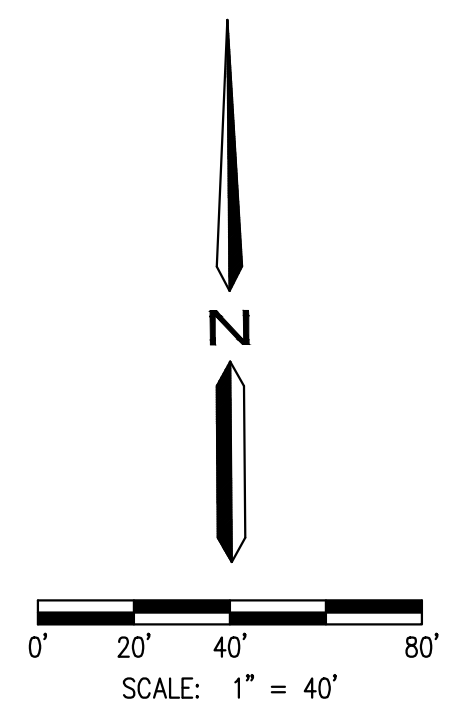
**EAST LOUISE AVENUE WATER MAIN (STA 19+00 TO STA 29+00)**



APPROVED: *[Signature]*

DESIGNED:	JLL
DRAWN:	JPJ
CHECKED:	RIC
SCALE:	1" = 40'
DATE:	7/7/20
JOB NO.:	37810
FILE NO.:	IP07.DWG

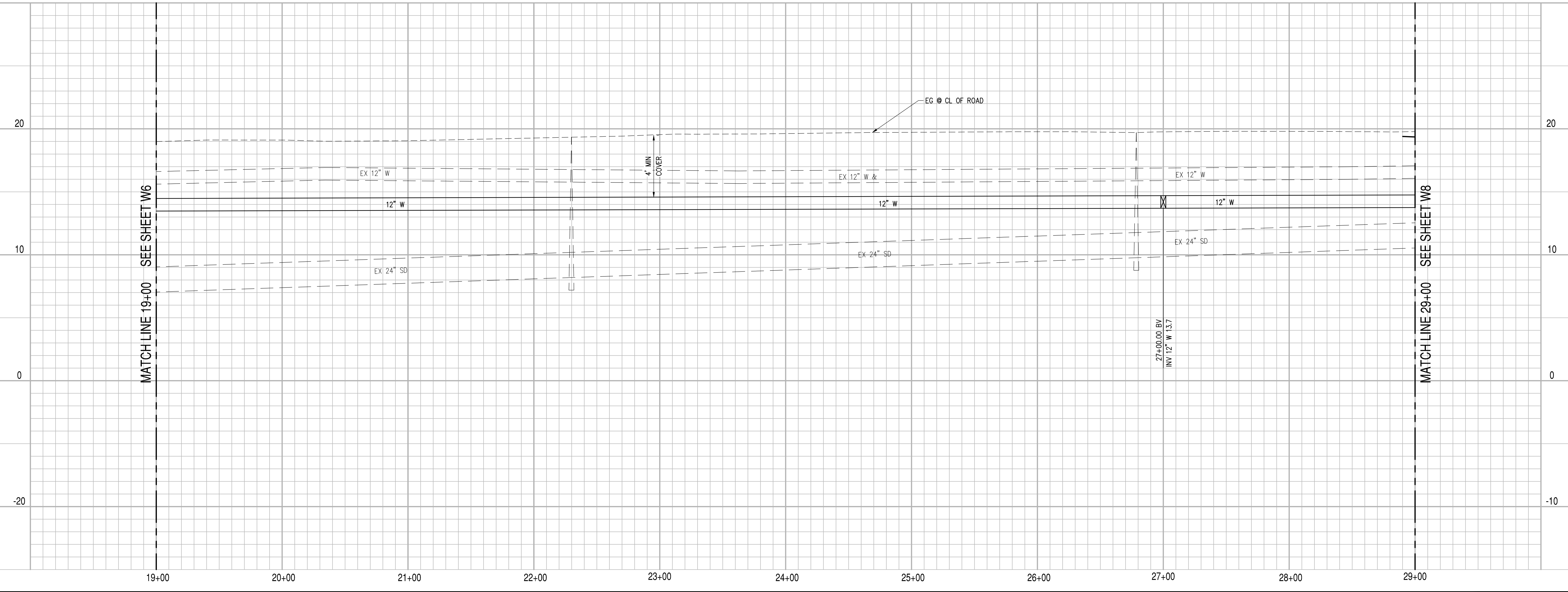
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**W7**  
 OF  
**10**



**EAST LOUISE AVENUE WATER MAIN (STA 19+00 TO STA 29+00)**

SCALE: HORIZONTAL 1" = 40'  
 VERTICAL 1" = 4'

- NOTES:**
1. PROPOSED WATER LINE IS DESIGNED WITHOUT THE BENEFIT OF POT-HOLING AND RELYING ON CITY PROVIDED PLANS. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES INVERT AND LOCATION PRIOR TO ESTABLISH CONNECTIONS.
  2. PROPOSED WATER LINE SHALL MAINTAIN MIN. 1' OF VERTICAL SEPARATION FROM OTHER UTILITIES AT CROSSINGS.
  3. WHEN WATER COVER IS LESS THAN 4', PLACE CONCRETE CAP OVER PIPE.





PLAN REVISIONS:		
REV. NO.	DATE	APPLICABLE SHEETS/REVISIONS

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CITY OF LATHROP  
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MAIN PROJECT (CIP PS 18-01)

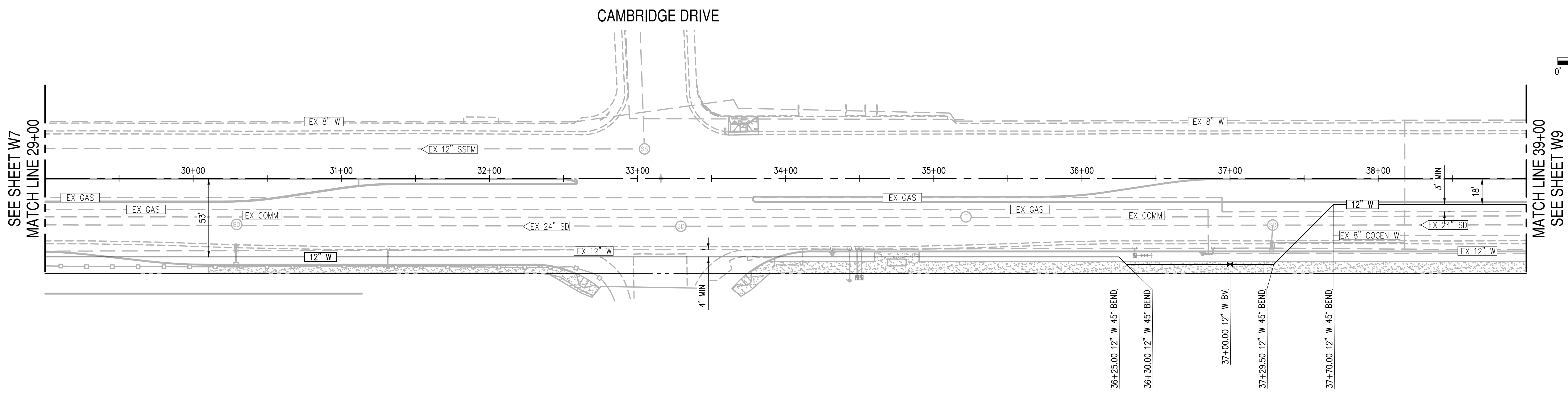
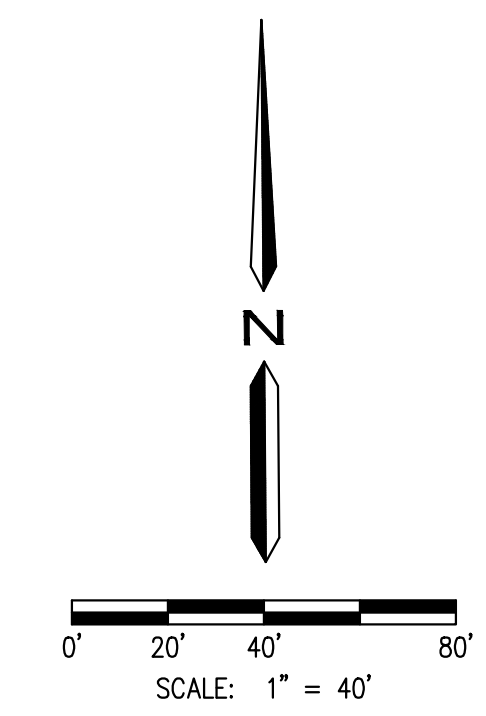
EAST LOUISE AVENUE WATER MAIN (STA 29+00 TO STA 39+00)



APPROVED: *[Signature]*

DESIGNED:	JLL
DRAWN:	JPJ
CHECKED:	RIC
SCALE:	1" = 40'
DATE:	7/7/20
JOB NO.:	37810
FILE NO.:	IP08.DWG

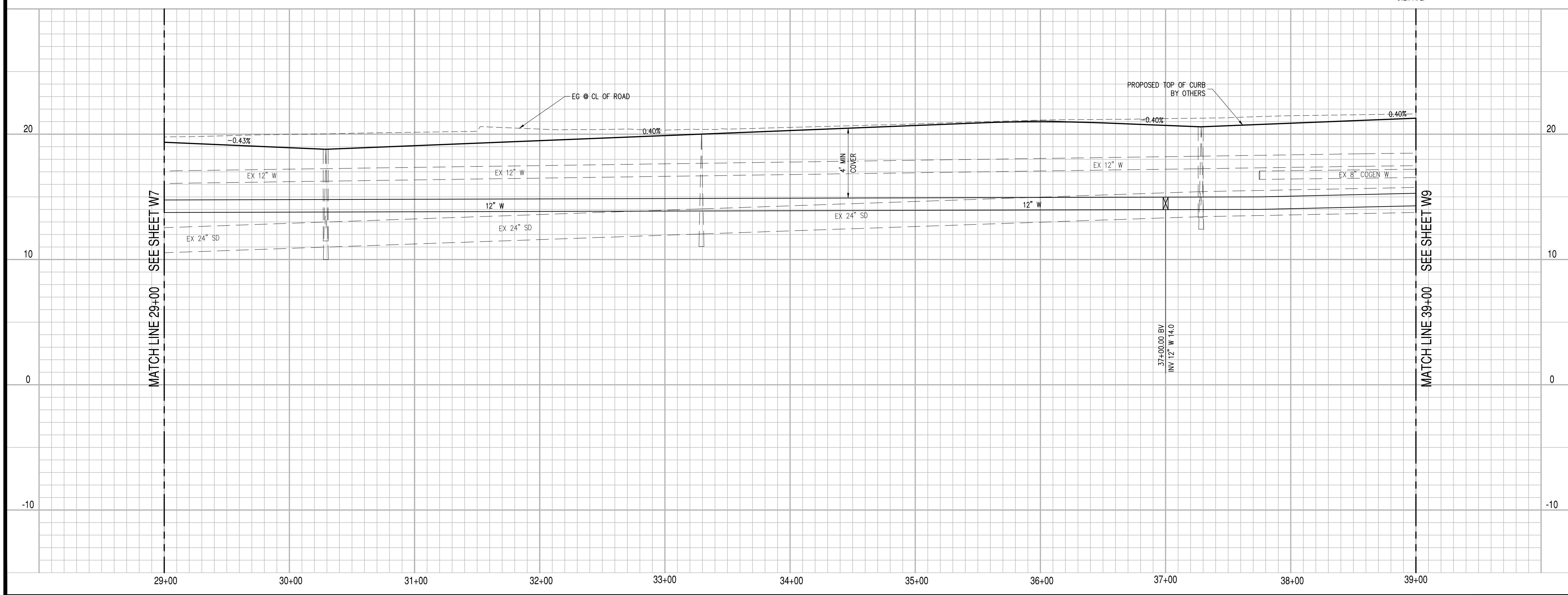
SHEET NO.  
**W8**  
OF  
**10**



**EAST LOUISE AVENUE WATER MAIN (STA 29+00 TO STA 39+00)**

SCALE: HORIZONTAL 1" = 40'  
VERTICAL 1" = 4'

- NOTES:
- PROPOSED WATER LINE IS DESIGNED WITHOUT THE BENEFIT OF POT-HOLING AND RELYING ON CITY PROVIDED PLANS. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES INVERT AND LOCATION PRIOR TO ESTABLISH CONNECTIONS.
  - PROPOSED WATER LINE SHALL MAINTAIN MIN. 1' OF VERTICAL SEPARATION FROM OTHER UTILITIES AT CROSSINGS.
  - WHEN WATER COVER IS LESS THAN 4', PLACE CONCRETE CAP OVER PIPE.





PLAN REVISIONS:		
REV. NO.	DATE	APPLICABLE SHEETS/REVISIONS

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CITY OF LATHROP  
 LOUISE AVENUE WATER TRANSMISSION  
 MAIN PROJECT (CIP PS 18-01)

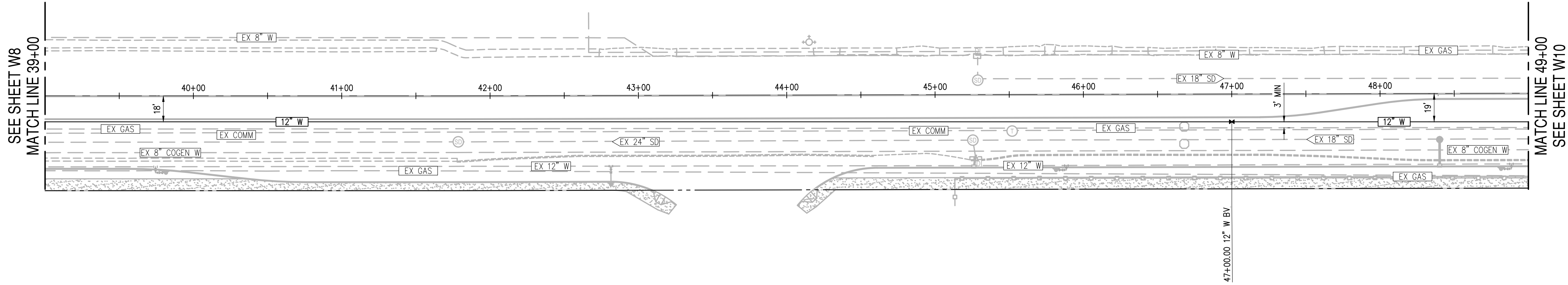
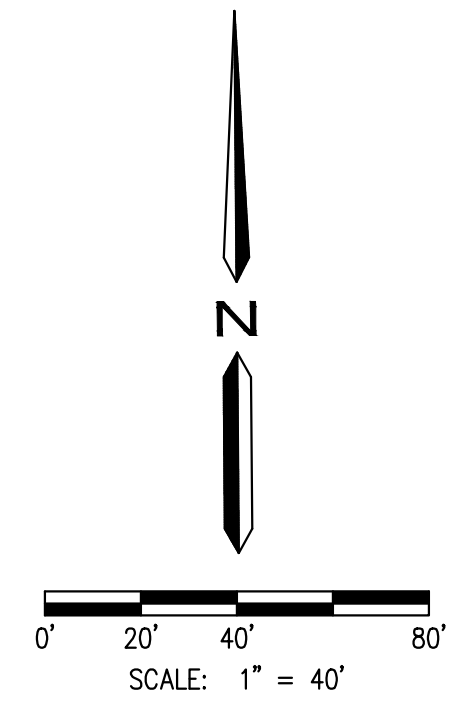
EAST LOUISE AVENUE WATER MAIN (STA 39+00 TO STA 49+00)



APPROVED: *[Signature]*

DESIGNED:	JLL
DRAWN:	JPJ
CHECKED:	RIC
SCALE:	1" = 40'
DATE:	7/7/20
JOB NO.:	37810
FILE NO.:	IP09.DWG

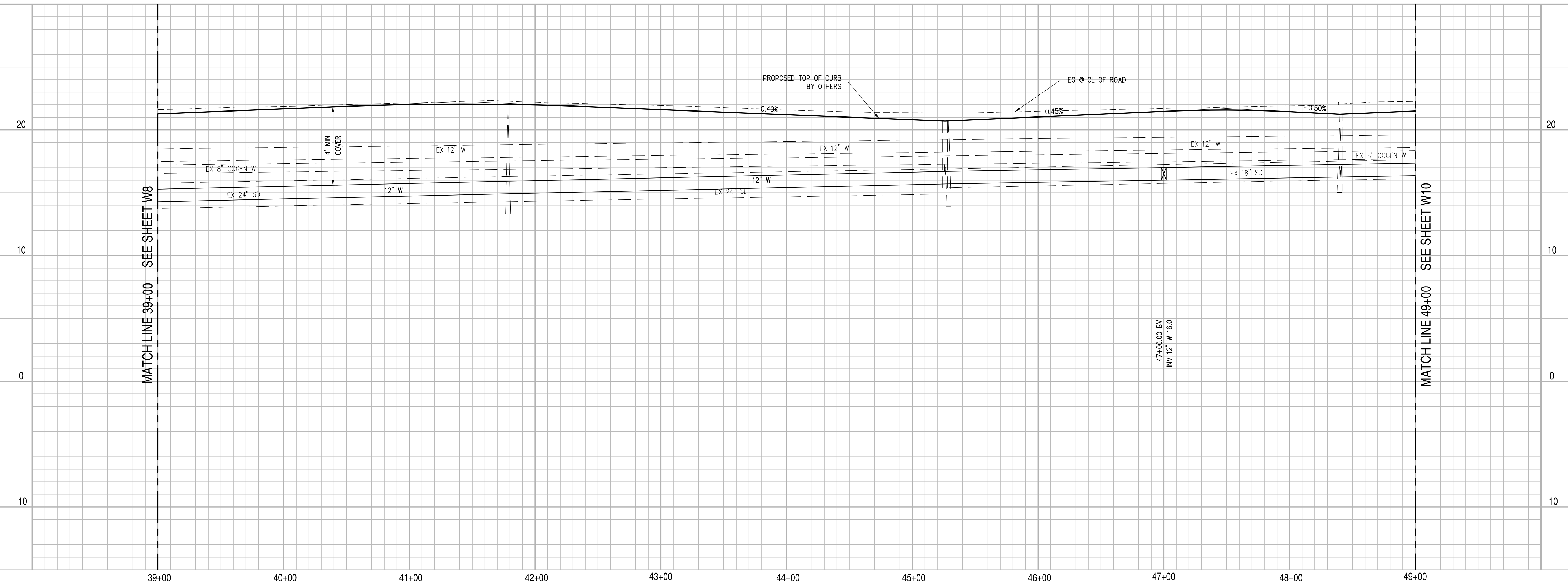
SHEET NO.  
**W9**  
 OF  
 10



**EAST LOUISE AVENUE WATER MAIN (STA 39+00 TO STA 49+00)**

SCALE: HORIZONTAL 1" = 40'  
 VERTICAL 1" = 4'

- NOTES:
- PROPOSED WATER LINE IS DESIGNED WITHOUT THE BENEFIT OF POT-HOLING AND RELYING ON CITY PROVIDED PLANS. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES INVERT AND LOCATION PRIOR TO ESTABLISH CONNECTIONS.
  - PROPOSED WATER LINE SHALL MAINTAIN MIN. 1' OF VERTICAL SEPARATION FROM OTHER UTILITIES AT CROSSINGS.
  - WHEN WATER COVER IS LESS THAN 4', PLACE CONCRETE CAP OVER PIPE.





PLAN REVISIONS:		
REV. NO.	DATE	APPLICABLE SHEETS/REVISIONS

**ODELL**  
ENGINEERING  
6200 Stoneridge Mall Road, Suite 330  
Pleasanton, CA 94588  
Ph 925.223.8340 odellengineering.com

CITY OF LATHROP  
LOUISE AVENUE WATER TRANSMISSION  
MAIN PROJECT (CIP PS 18-01)

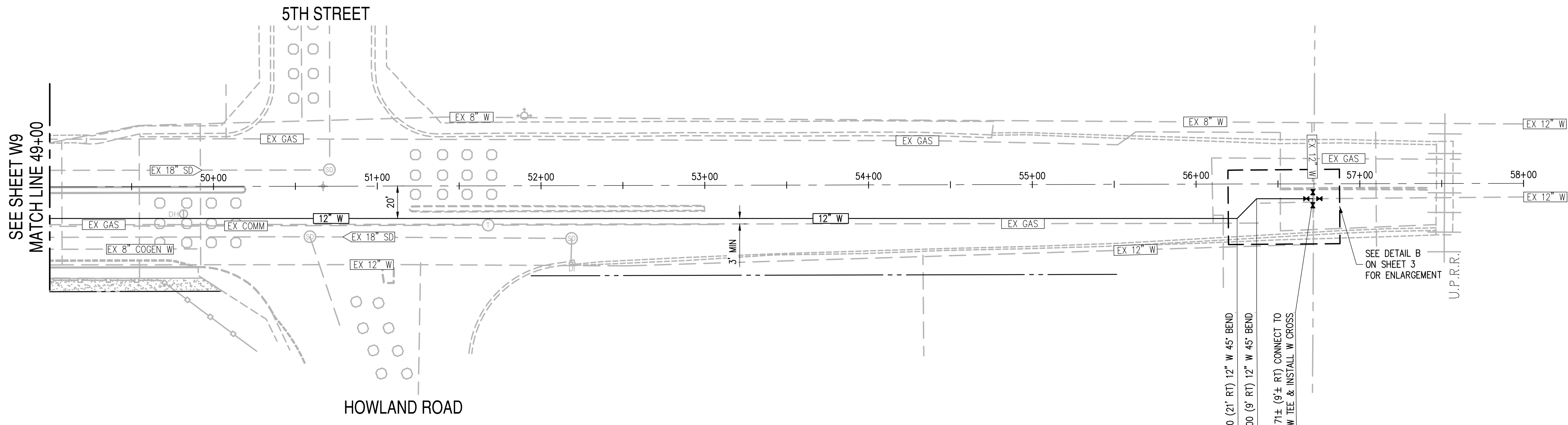
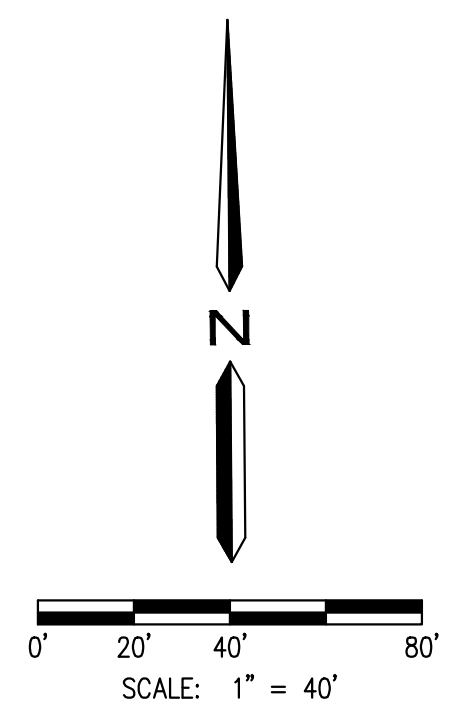
EAST LOUISE AVENUE  
WATER MAIN (STA 49+00  
TO END)



APPROVED: *[Signature]*

DESIGNED: JLL  
DRAWN: JPJ  
CHECKED: RIC  
SCALE: 1" = 40'  
DATE: 7/7/20  
JOB NO.: 37810  
FILE NO.: IP10.DWG

SHEET NO.  
W10  
OF  
10



EAST LOUISE AVENUE WATER MAIN (STA 49+00 TO END)

SCALE: HORIZONTAL 1" = 40'  
VERTICAL 1" = 4'

- NOTES:
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