

# 2011 SEWER INTERCEPTOR REPAIR AND REPLACEMENTS FEBRUARY, 2011

AS BUILT 2-2012

- 1 \_\_\_\_\_ Cover Sheet
- 2 \_\_\_\_\_ Project Location and Sheet Index Map
- 3 \_\_\_\_\_ Standard Abbreviations, Legend, and Symbols
- 4 \_\_\_\_\_ Summary of Approximate Quantities
- 6 TO CO-9 ~~5-19~~ \_\_\_\_\_ Sewer Line Plan and Profiles (Sht 5 & 14 removed)

See Sheet 2 to Determine Locations of Sewer Lines that  
are going to be Repaired or Replaced

UTILITIES AND AGENCIES								
AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
GRAND JUNCTION, CITY OF	JEROD TIMOTHY	PROJECT MANAGER	PROJECT MANAGER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 244-1565	(970) 256-4022
GRAND JUNCTION, CITY OF	BRET GUILLORY	UTILITY ENGINEER	SANITARY SEWER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 244-1590	(970) 256-4022
GRAND VALLEY IRRIGATION CO.	PHIL BERTRAND		IRRIGATION	688 26 ROAD	688 26 ROAD	GRAND JCT., CO 81506	(970) 242-2762	
BRESNAN	CHUCK WEIDMAN	MANAGER	CABLE TV	2502 FORESIGHT CIRCLE	2502 FORESIGHT CIRCLE	GRAND JCT., CO 81504	(970) 245-8750	(970) 245-6803
U.S. WEST/QWEST	CHRIS JOHNSON	ENGINEER	TELEPHONE	2524 BLICHMANN AVE	2524 BLICHMANN AVE	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4349
UTE WATER	DARYL MOORE	SUPERVISOR	WATER	PO BOX 460		GRAND JCT., CO 81502	(970) 242-7491	(970) 242-9189
XCEL	DAN STEINKIRCHNER	UNIT MANAGER	GAS, ELECTRIC	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2656	(970) 244-2661

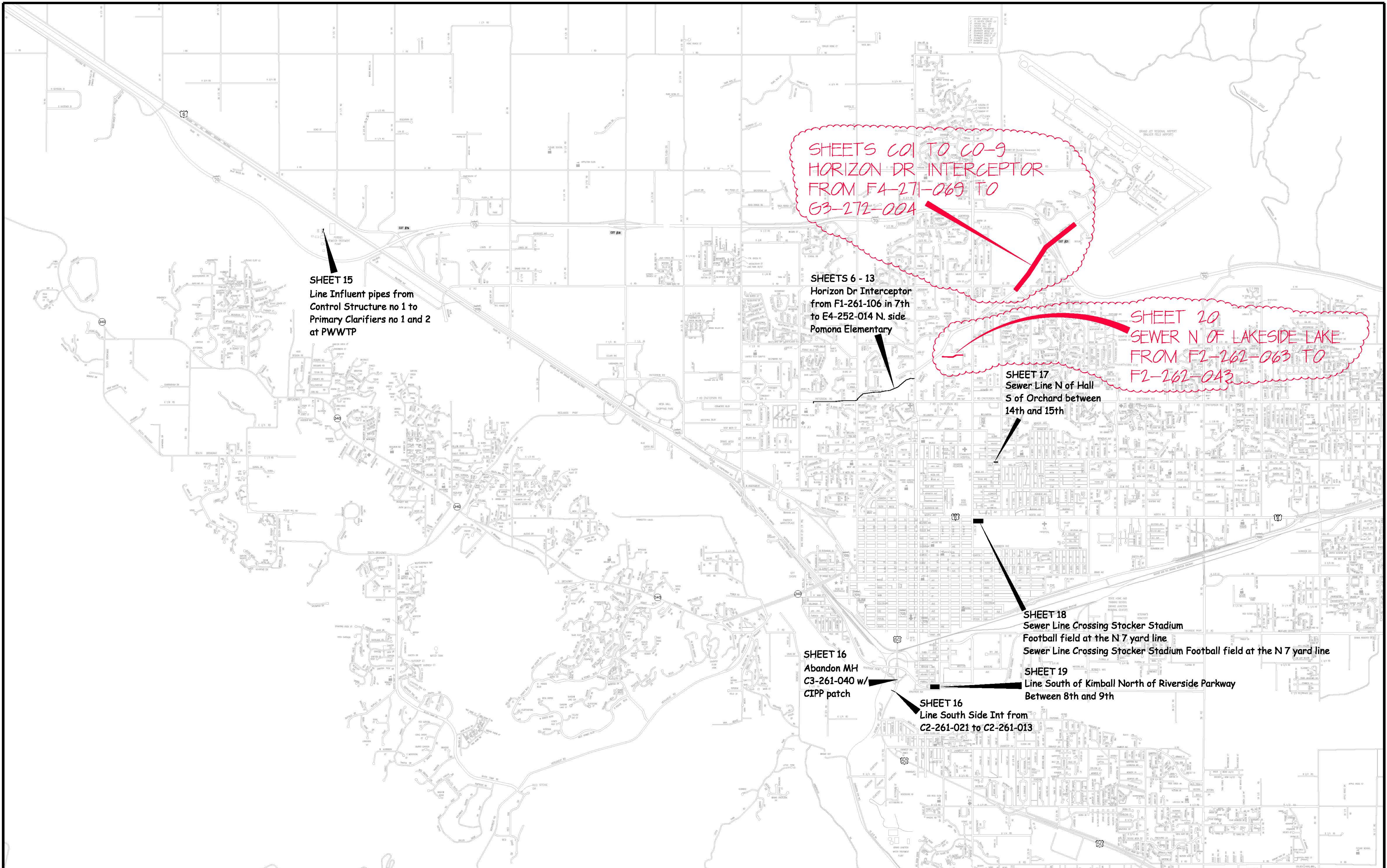


*Public Works & Planning  
Engineering Division*

NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.

	DESCRIPTION	DATE
REVISION ▲	_____	_____
REVISION ▲	_____	_____
REVISION ▲	_____	_____
REVISION ▲	_____	_____

<b>DRAWING STATUS:</b>	
<input checked="" type="radio"/> PROGRESS	
<input type="radio"/> FINAL CONSTRUCTION DRAWINGS	
<input type="radio"/> ASBUILT	
<b>DESIGNED BY:</b>	
JEROD TIMOTHY, PROJECT MANAGER	DATE _____
<b>REVIEWED BY:</b>	
BRET GUILLORY, UTILITY ENGINEER	DATE _____
<b>AUTHORIZED FOR CONSTRUCTION</b>	
TRENTON C. PRALL, CITY ENGINEER	DATE _____
<b>ACCEPTED AS CONSTRUCTED</b>	
JEROD TIMOTHY, PROJECT MANAGER	DATE _____



SHEETS 601 TO 60-9  
 HORIZON DR INTERCEPTOR  
 FROM F4-271-069 TO  
 G3-272-004

SHEET 15  
 Line Influent pipes from  
 Control Structure no 1 to  
 Primary Clarifiers no 1 and 2  
 at PWWTP

SHEETS 6 - 13  
 Horizon Dr Interceptor  
 from F1-261-106 in 7th  
 to E4-252-014 N. side  
 Pomona Elementary

SHEET 20  
 SEWER N OF LAKESIDE LAKE  
 FROM F1-262-063 TO  
 F1-262-043

SHEET 17  
 Sewer Line N of Hall  
 S of Orchard between  
 14th and 15th

SHEET 18  
 Sewer Line Crossing Stocker Stadium  
 Football field at the N 7 yard line  
 Sewer Line Crossing Stocker Stadium Football field at the N 7 yard line

SHEET 16  
 Abandon MH  
 C3-261-040 w/  
 CIPP patch

SHEET 19  
 Line South of Kimball North of Riverside Parkway  
 Between 8th and 9th

SHEET 16  
 Line South Side Int from  
 C2-261-021 to C2-261-013

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION $\Delta$ AS BUILT		2-2	DESIGNED BY	DATE
REVISION $\Delta$			CHECKED BY	DATE
REVISION $\Delta$			APPROVED BY	DATE

SCALE  
 N.T.S.



PUBLIC WORKS  
 AND UTILITIES  
 ENGINEERING DIVISION

2011 SEWER INTERCEPTOR REPAIR AND REPLACEMENTS  
 PROJECT LOCATION AND SHEET INDEX MAP

**ABBREVIATIONS**

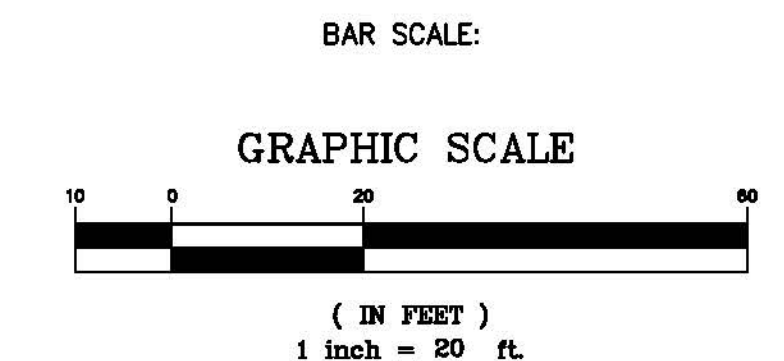
AASTHO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BCR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES
CH	CHORD
CAP	CORRUGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
C,G,& SW	CURB, GUTTER & SIDEWALK
CL	CENTER LINE
CL	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
FG	FINISHED GRADE
F	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RG	RESTRAINED GLANDS
RL	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
RT	RIGHT
S	SLOPE
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSUU	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
Δ	DELTA ANGLE

**LEGEND**

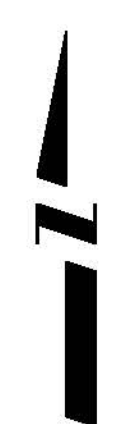
BSWMP DRAINAGE BASIN BOUNDARY	
BSWMP ANCHORED STRAW BALES	
BSWMP SILT FENCE	
BUILDING	
CONCRETE CURB AND GUTTER	
CONCRETE CURB, GUTTER, & SIDEWALK	
CONCRETE DITCH	
CONCRETE SIDEWALK	
CULVERT	
EARTH DITCH	
EDGE OF GRAVEL	
EDGE OF PAVEMENT	
FENCE (BARBED WIRE)	
FENCE (CHAIN LINK)	
FENCE (IRON)	
FENCE (PLASTIC)	
FENCE (TEMPORARY CONSTRUCTION)	
FENCE (WOOD)	
FENCE (WOVEN WIRE)	
GUARD RAIL	
HATCHING: INDICATES ASPHALT REMOVAL	
HATCHING: INDICATES CONCRETE REMOVAL	
HATCHING: INDICATES STAGING AREA	
LINE (CENTER OF IMPROVEMENTS)	
LINE (CITY LIMITS)	
LINE (CONTROL)	
LINE (EASEMENT)	
LINE (MONUMENT/SECTION)	
LINE (PROPERTY)	
LINE (RIGHT OF WAY)	
MATCH LINE	
PIPE (IRRIGATION)	
PIPE (SIPHON)	
PROPOSED CONCRETE CURB AND GUTTER	
PROPOSED CONCRETE CURB, GUTTER, & SIDEWALK	
PROPOSED CONCRETE SIDEWALK	
PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)	
RAIL ROAD	
RETAINING WALL	
STRIPING (CONTINUOUS WHITE)	
STRIPING (DASHED WHITE)	
STRIPING (CONTINUOUS YELLOW)	
STRIPING (DASHED YELLOW)	
TOP OF SLOPE	
CONTOUR LINES (SHOWN BETWEEN TOP & TOE)	
TOE OF SLOPE	
TRAFFIC DETECTOR LOOP	
UTILITY LINE (ABANDON) (THIS CASE A WATER LINE)	
UTILITY LINE (CABLE TV)	
UTILITY LINE (ELECTRIC)	
UTILITY LINE (FIBER OPTIC)	
UTILITY LINE (GAS)	
UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER)	
UTILITY LINE (OVERHEAD POWER)	
UTILITY LINE (OVERHEAD TELEPHONE)	
UTILITY LINE (SANITARY SEWER)	
UTILITY LINE (SANITARY SEWER FORCE MAIN)	
UTILITY LINE (SANITARY SEWER SERVICE)	
UTILITY LINE (STORM SEWER)	
UTILITY LINE (STORM SEWER, PERFORATED)	
UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION)	
UTILITY LINE (TELEPHONE)	
UTILITY LINE (WATER)	

**SYMBOLS**

BENCH MARK	
CATCH BASIN	
CLEAN OUT	
CURB STOP	
FIRE HYDRANT	
GUY WIRE ANCHOR	
HEADGATE	
IRRIGATION PUMP	
MAILBOX	
MANHOLE (ELECTRIC)	
MANHOLE (GAS)	
MANHOLE (SANITARY/STORM)	
MANHOLE (TELEPHONE)	
MANHOLE (TV)	
MANHOLE (WATER)	
METER (GAS)	
METER (WATER)	
PEDESTAL (TELEPHONE)	
PEDESTAL (TV)	
PROPERTY PIN	
PULL BOX	
REDUCER FITTING	
SIGN OR POST (SIGN TYPE NOTED)	
SPRINKLER HEAD	
STREET LIGHT	
SURVEY MONUMENT (CITY)	
SURVEY MONUMENT (TYPE NOTED)	
TEST HOLE	
TRAFFIC SIGNAL POLE AND MAST ARM	
UTILITY POLE	
VALVE (GAS)	
VALVE (IRRIGATION)	
VALVE (WATER)	
VEGETATION (HEDGE OR BUSH)	
VEGETATION (TREE STUMP)	
VEGETATION (TREE) (CALIPER SIZE NOTED)	
WATER HYDRANT	
WEIR	
YARD LIGHT	



NORTH ARROW:



REVISION	DESCRIPTION	DATE

DRAWN BY	JCS	DATE	4-02
DESIGNED BY		DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	

SCALE

PLAN PROFILE

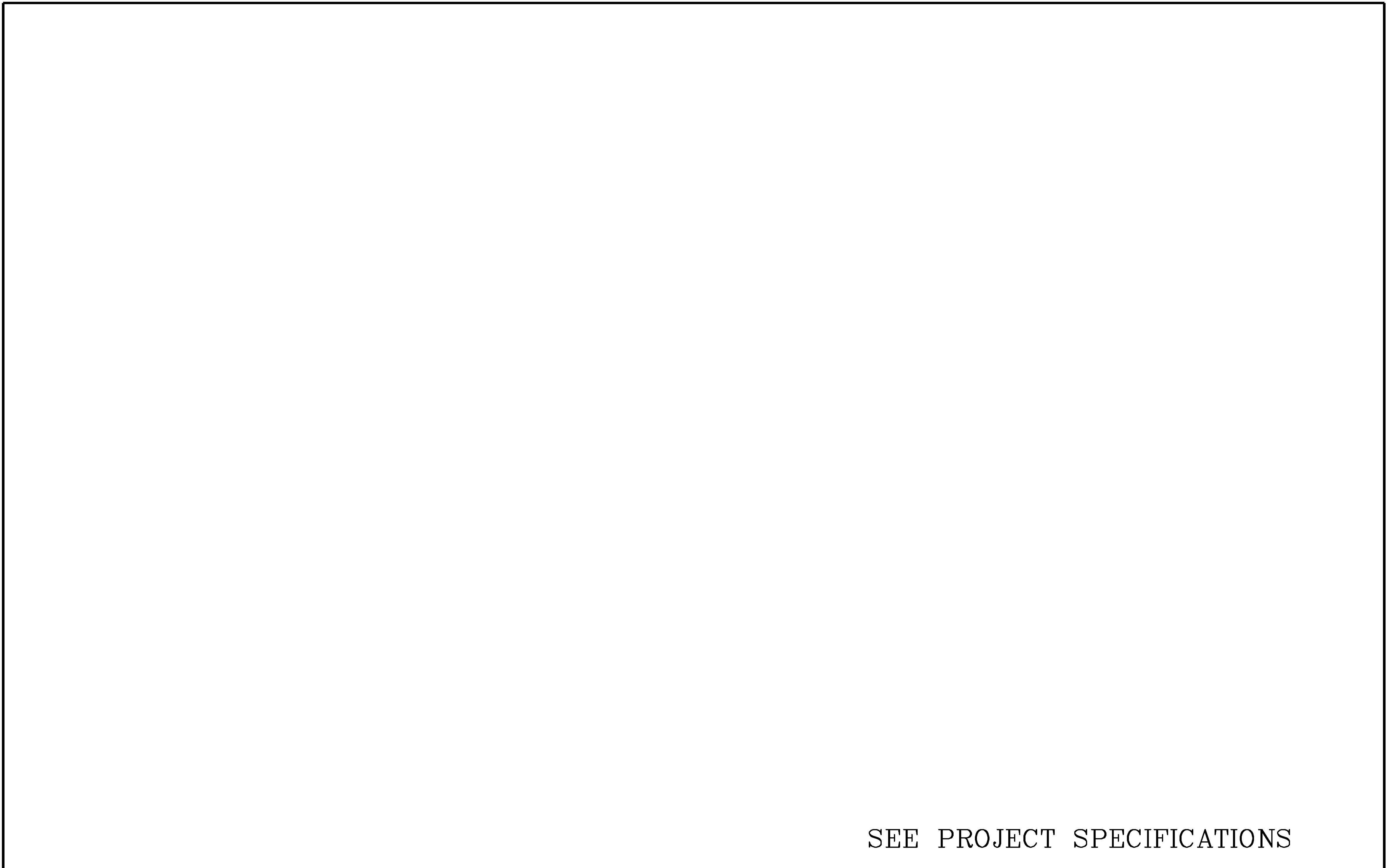
HORIZ. 1"=20' HORIZ. \_\_\_\_\_

VERT. \_\_\_\_\_

**PUBLIC WORKS AND PLANNING ENGINEERING DIVISION**

**CITY OF GRAND JUNCTION STANDARD ABBREVIATIONS, LEGEND, AND SYMBOLS SHEET**

N:\Projects\2011 Sewer Interceptor Repair and Replacements - 100207\user\_interceptor.dwg



SEE PROJECT SPECIFICATIONS

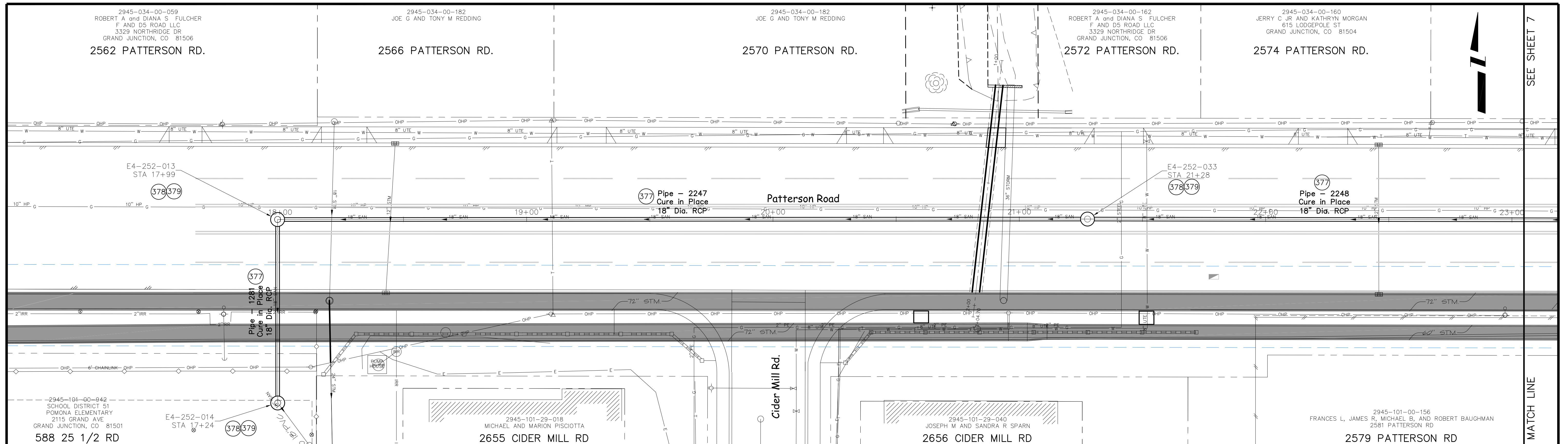
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REVISION $\Delta$	_____	_____	DESIGNED BY	DATE
REVISION $\Delta$	_____	_____	CHECKED BY	DATE
REVISION $\Delta$	_____	_____	APPROVED BY	DATE

SCALE  
N.T.S.

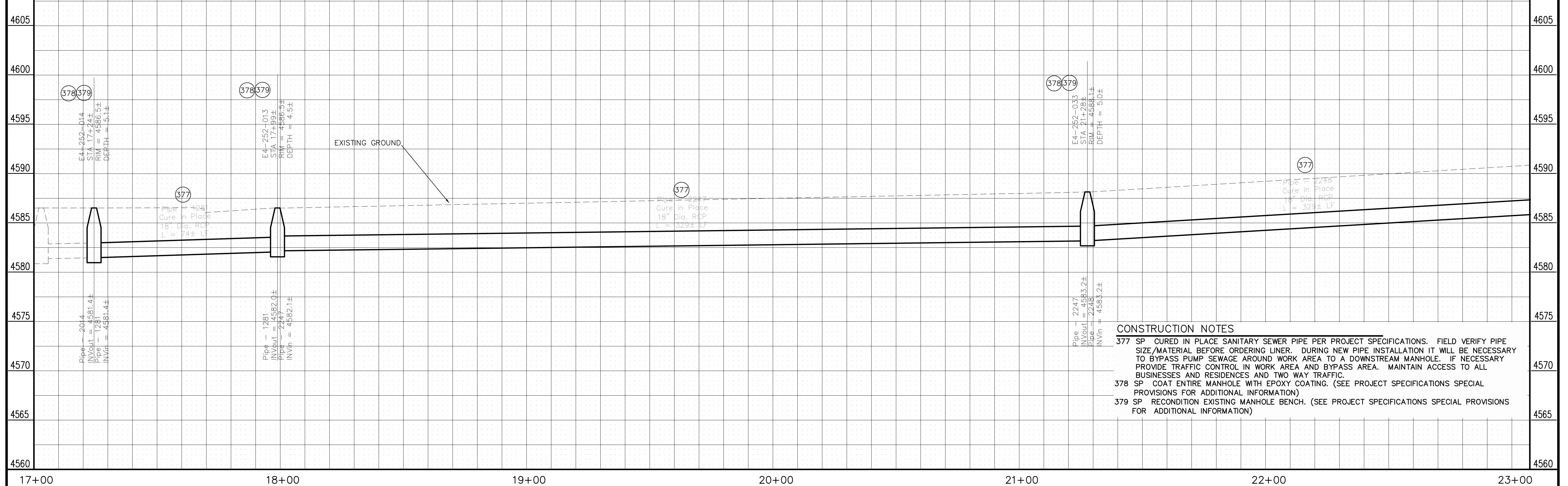


PUBLIC WORKS  
AND PLANNING  
ENGINEERING DIVISION

2011 Sewer Interceptor Repair & Replacements  
SUMMARY OF APPROXIMATE QUANTITIES

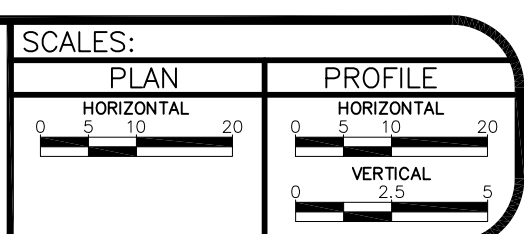


**Sewer Line from the NE corner of Pomona Elementary School Yard To 300' E of Cider Mill Rd in Patterson**



- CONSTRUCTION NOTES**
- 377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
  - 378 SP COAT ENTIRE MANHOLE WITH EPOXY COATING. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)
  - 379 SP RECONDITION EXISTING MANHOLE BENCH. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)

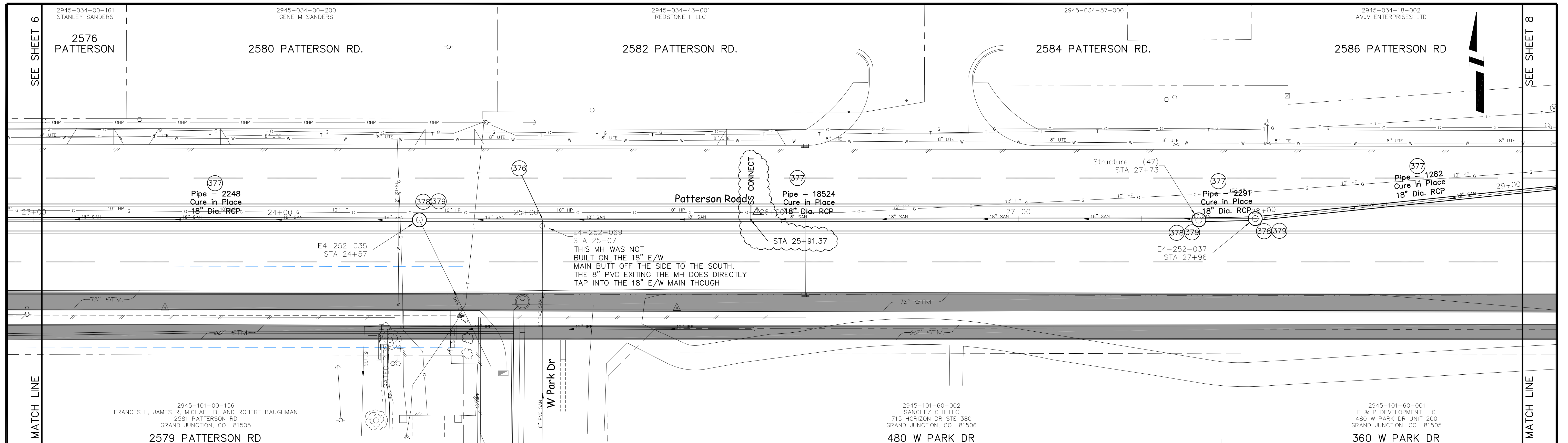
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AS BUILT		2-2-2012	JCS	2011



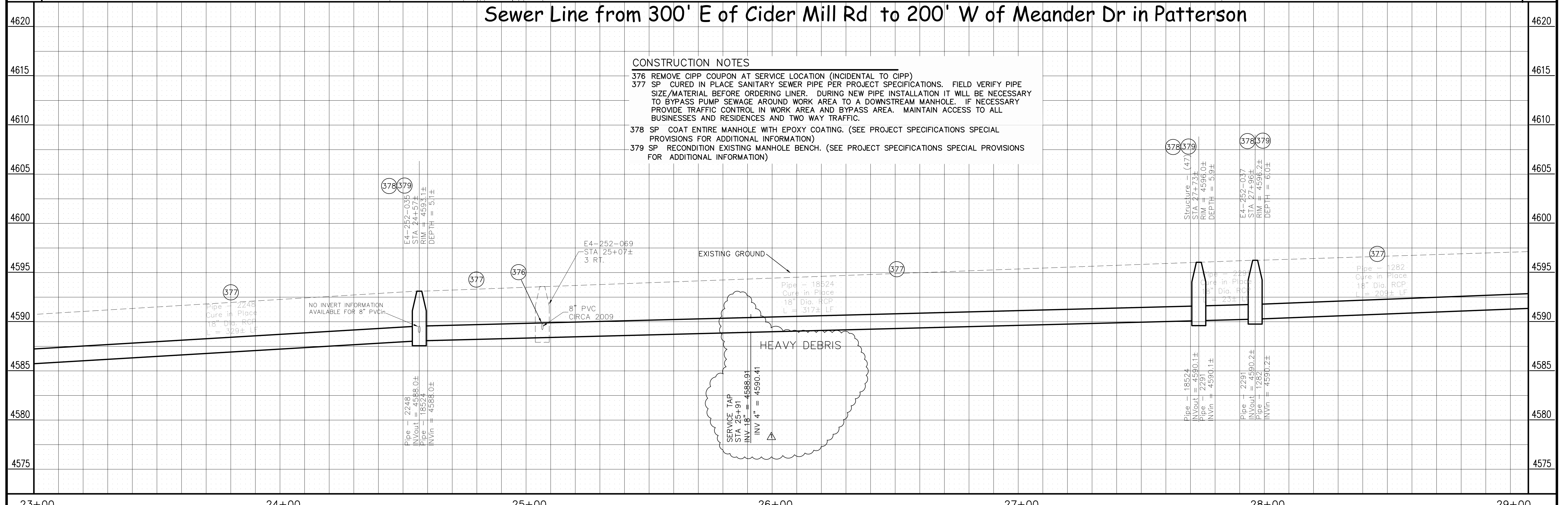
**PUBLIC WORKS  
AND PLANNING  
ENGINEERING DIVISION**

2011 Sewer Interceptor Repair and Replacements  
Plan and Profile from the NE corner of Pomona Elementary School  
Yard To 300' E of Cider Mill Rd in Patterson

SEE SHEET 7  
MATCH LINE



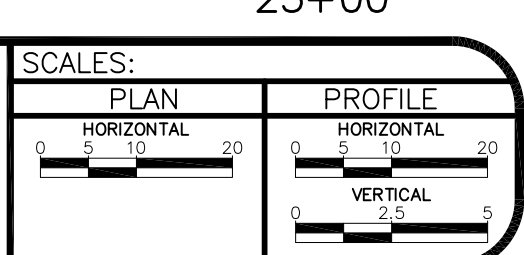
**Sewer Line from 300' E of Cider Mill Rd to 200' W of Meander Dr in Patterson**



**CONSTRUCTION NOTES**

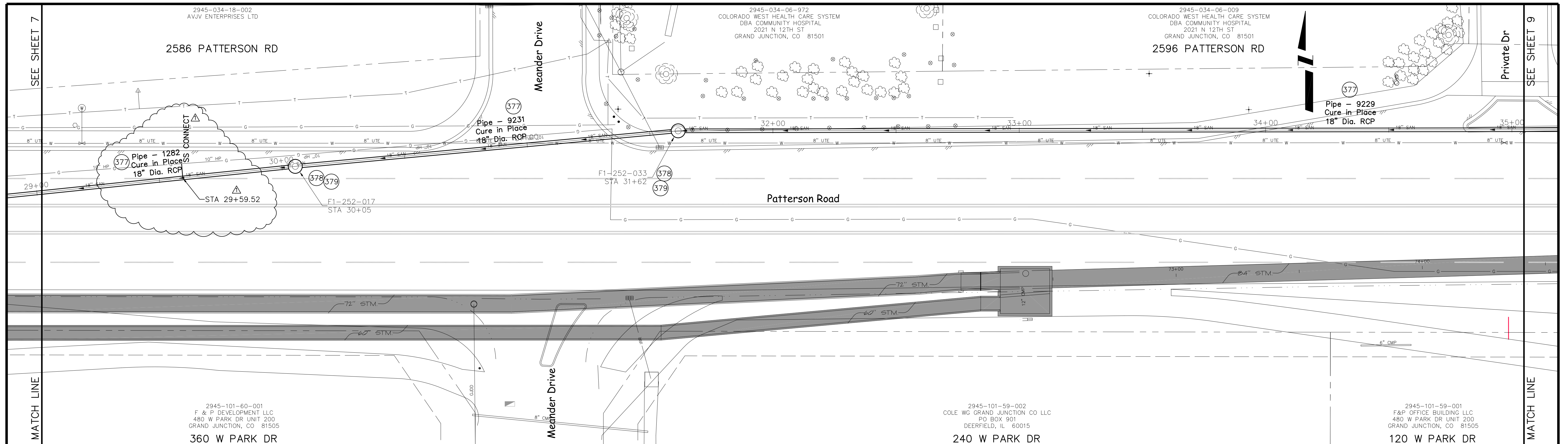
- 376 REMOVE CIPP COUPON AT SERVICE LOCATION (INCIDENTAL TO CIPP)
- 377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
- 378 SP COAT ENTIRE MANHOLE WITH EPOXY COATING. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)
- 379 SP RECONDITION EXISTING MANHOLE BENCH. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)

REVISION	DESCRIPTION	DATE	DRAWN BY	JCS	DATE	2011
REVISION A	ADDENDUM 1	2-15-11	DESIGNED BY		DATE	
REVISION B	AS BUILT	2-2-12	CHECKED BY		DATE	
REVISION C			APPROVED BY		DATE	

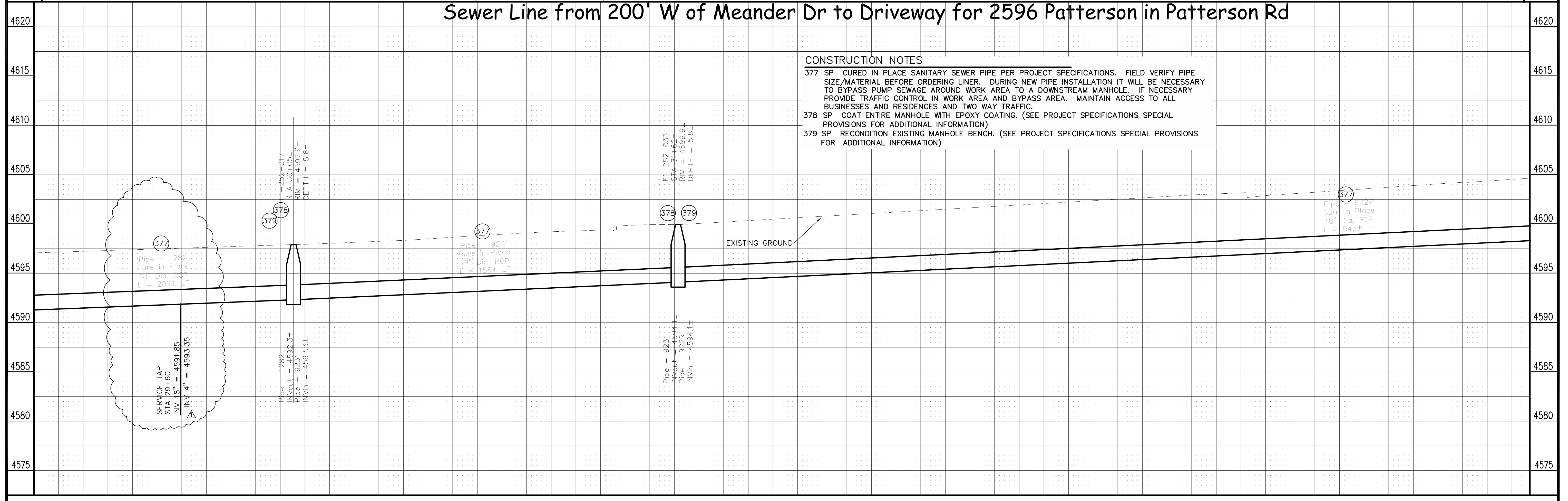


**PUBLIC WORKS  
AND PLANNING  
ENGINEERING DIVISION**

**2011 Sewer Interceptor Repair and Replacements  
Plan and Profile from 300' E of Cider Mill Rd to 200' W of  
Meander Dr in Patterson**



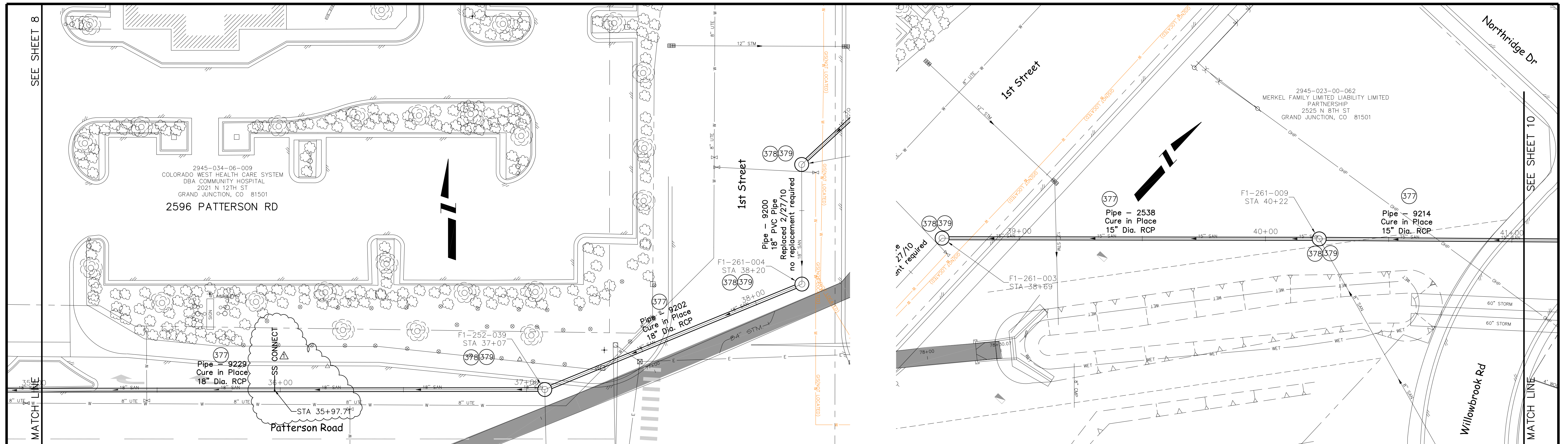
**Sewer Line from 200' W of Meander Dr to Driveway for 2596 Patterson in Patterson Rd**



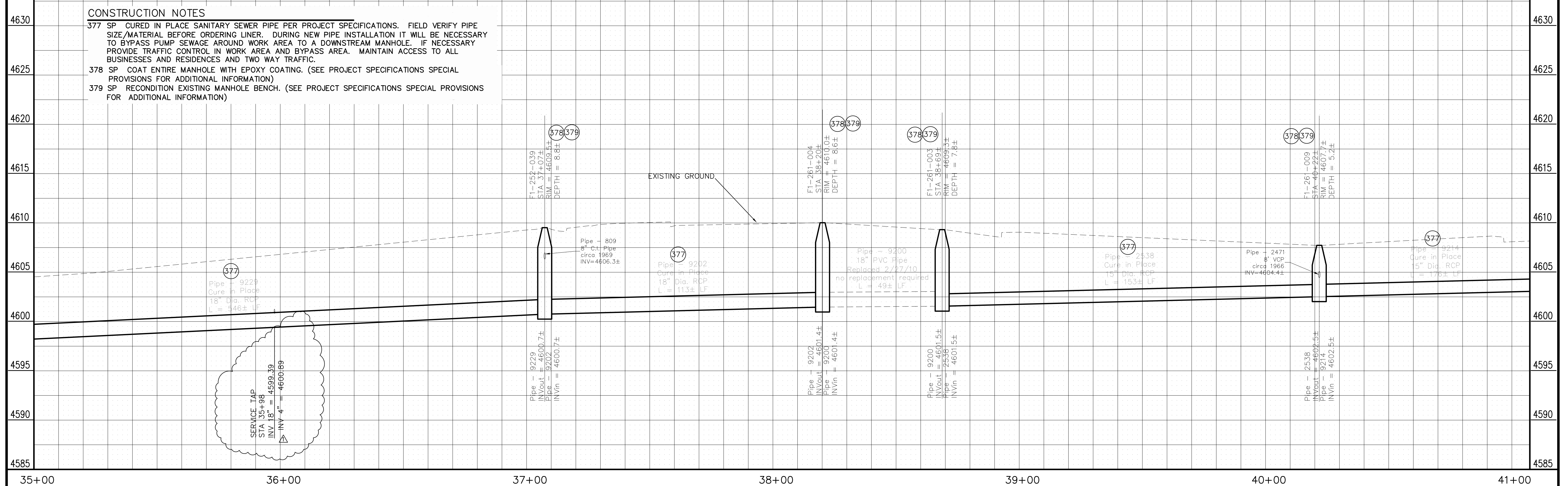
**CONSTRUCTION NOTES**

- 377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
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REVISION $\Delta$ ADDENDUM 1 REVISION $\Delta$ AS BUILT REVISION $\Delta$ REVISION $\Delta$	DESCRIPTION DATE 2-15-11 2-2012	DRAWN BY JCS DATE 2011 DESIGNED BY DATE CHECKED BY DATE APPROVED BY DATE	SCALES: PLAN HORIZONTAL 1" = 10' PROFILE HORIZONTAL 1" = 10' VERTICAL 1" = 2'		<b>PUBLIC WORKS AND PLANNING ENGINEERING DIVISION</b>	<b>2011 Sewer Interceptor Repair and Replacements Plan and Profile from 200' W of Meander Dr to Driveway for 2596 Patterson in Patterson Rd</b>	<b>8</b>
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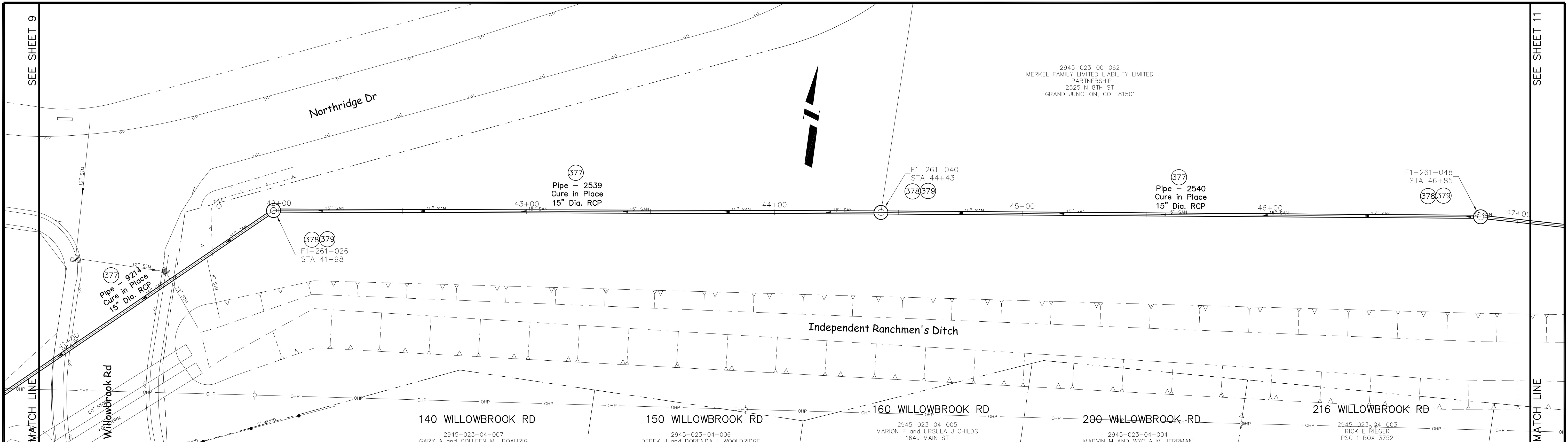


Sewer Line from Driveway for 2596 Patterson to Willowbrook Rd Just S of Northridge Dr

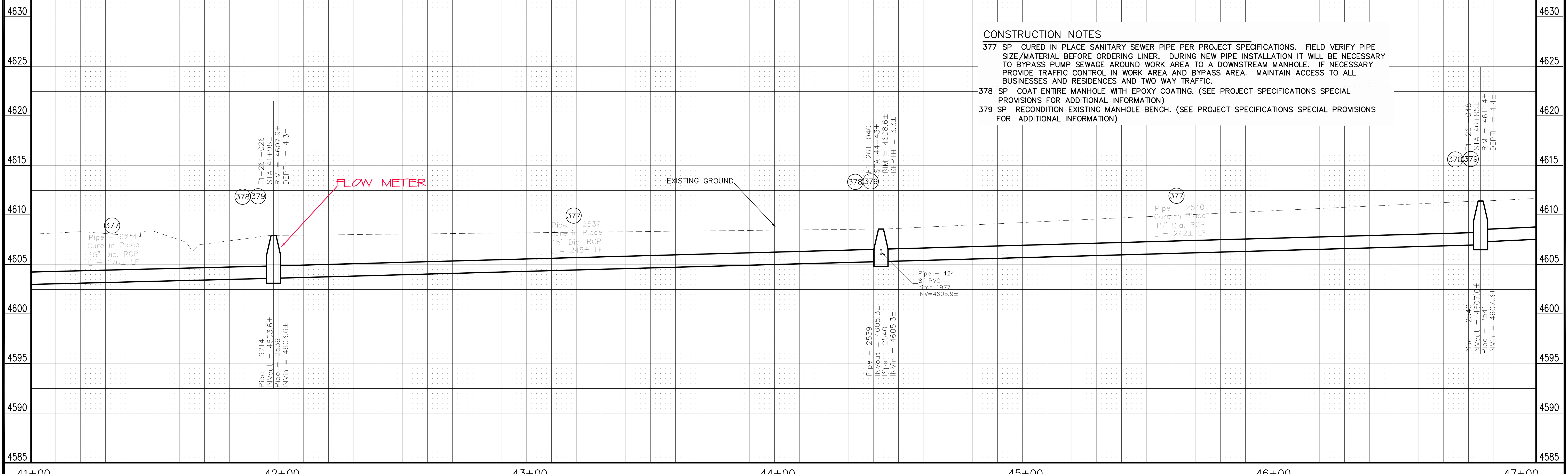


REVISION $\Delta$ ADDENDUM 1 REVISION $\Delta$ AS BUILT REVISION $\Delta$ REVISION $\Delta$	DESCRIPTION DATE 2-15-11 2-2012	DRAWN BY JCS DESIGNED BY CHECKED BY APPROVED BY	DATE 2011 DATE DATE DATE	SCALES: PLAN HORIZONTAL 1" = 10' PROFILE HORIZONTAL 1" = 10' VERTICAL 1" = 2'		PUBLIC WORKS AND PLANNING ENGINEERING DIVISION	2011 Sewer Interceptor Repair and Replacements Plan and Profile from Driveway for 2596 Patterson to Willowbrook Rd Just S of Northridge Dr	9
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**Sewer Line from Willowbrook Rd Just S of Northridge Dr to 550' E of Willowbrook Rd & Northridge Dr Intersection Along the N side of Independent Ranchmen's Ditch**



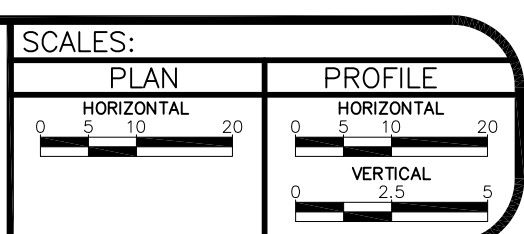
**CONSTRUCTION NOTES**

377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.

378 SP COAT ENTIRE MANHOLE WITH EPOXY COATING. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)

379 SP RECONDITION EXISTING MANHOLE BENCH. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)

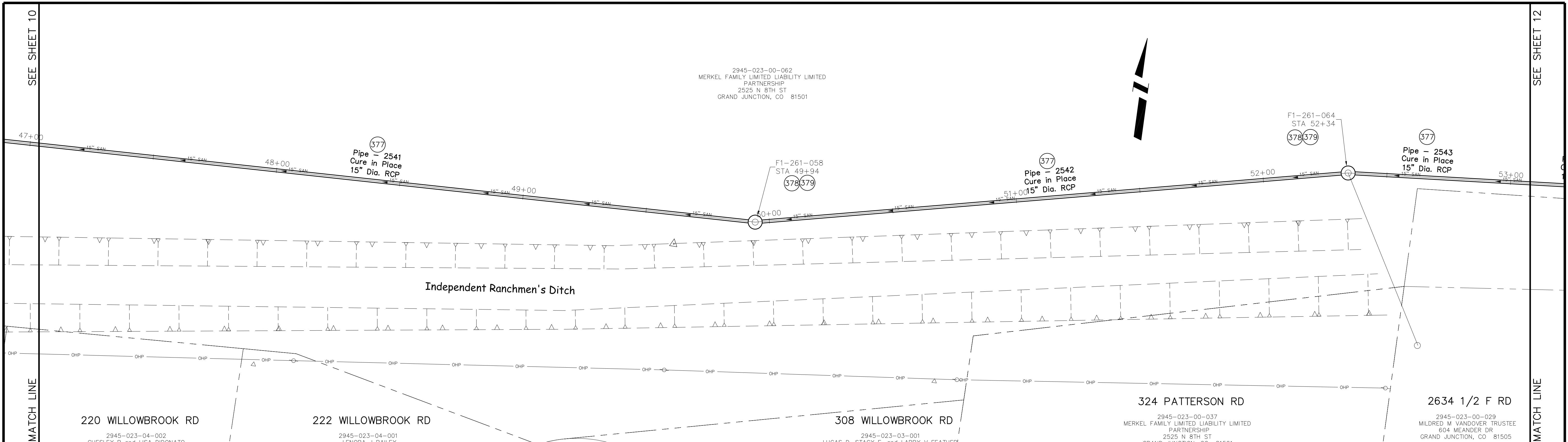
REVISION	DESCRIPTION	DATE	DRAWN BY	JCS	DATE	2011
REVISION $\Delta$	AS BUILT	2-2-2012	DESIGNED BY		DATE	
REVISION $\Delta$			CHECKED BY		DATE	
REVISION $\Delta$			APPROVED BY		DATE	



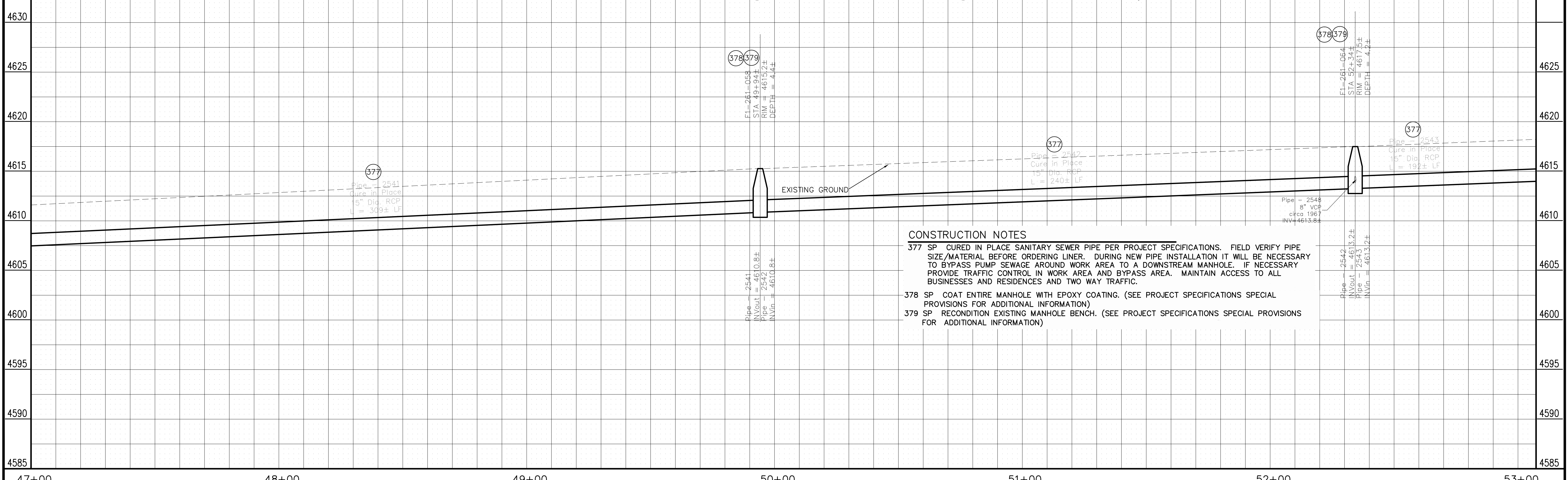
**PUBLIC WORKS AND PLANNING ENGINEERING DIVISION**

2011 Sewer Interceptor Repair and Replacements Plan and Profile from Willowbrook Rd S of Northridge Dr to 550' E of Willowbrook Rd & Northridge Dr Intersection Along the N side of Independent Ranchmen's Ditch

2945-023-00-062  
 MERKEL FAMILY LIMITED LIABILITY LIMITED  
 PARTNERSHIP  
 2525 N 8TH ST  
 GRAND JUNCTION, CO 81501



**Sewer Line from 550' E to 1150' E of Willowbrook Rd & Northridge Dr Intersection Along the N side of Independent Ranchmen's Ditch**



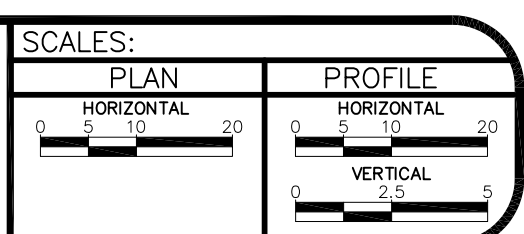
**CONSTRUCTION NOTES**

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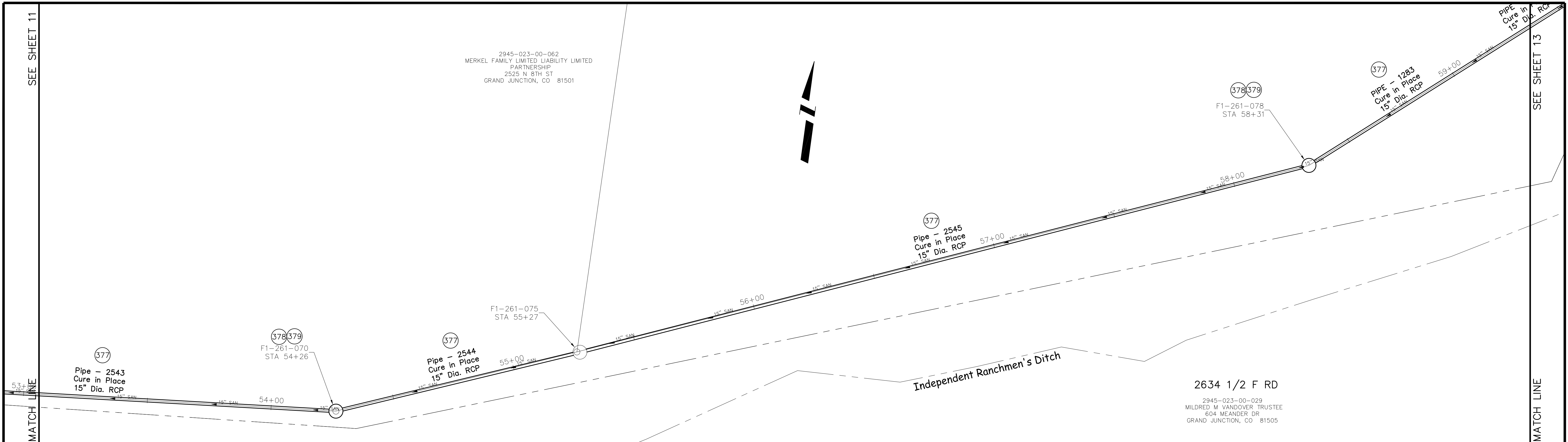
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	AS BUILT	2-2-2012	JCS	2011
2				
3				
4				



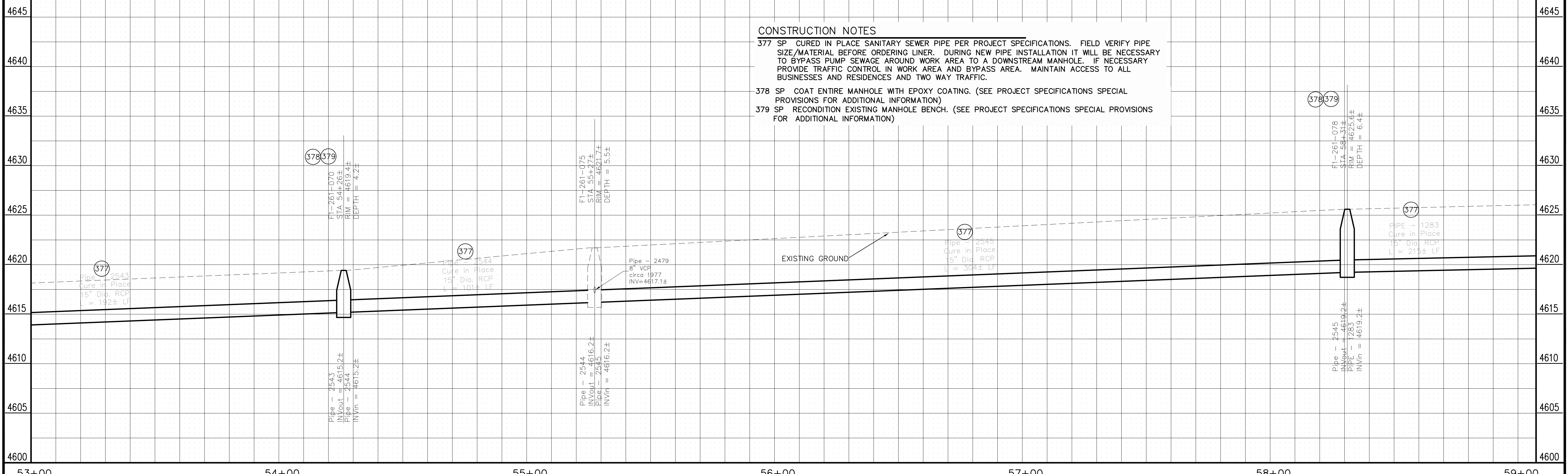
**PUBLIC WORKS AND PLANNING ENGINEERING DIVISION**

2011 Sewer Interceptor Repair and Replacements Plan and Profile from 550' E to 1150' E of Willowbrook Rd & Northridge Dr Intersection Along the N side of Independent Ranchmen's Ditch

2945-023-00-062  
 MERKEL FAMILY LIMITED LIABILITY LIMITED  
 PARTNERSHIP  
 2525 N 8TH ST  
 GRAND JUNCTION, CO 81501



**Sewer Line from 1150' E of Willowbrook Rd & Northridge Dr Intersection to 800' W of 26 1/2 Rd Along the N side of Independent Ranchmen's Ditch**



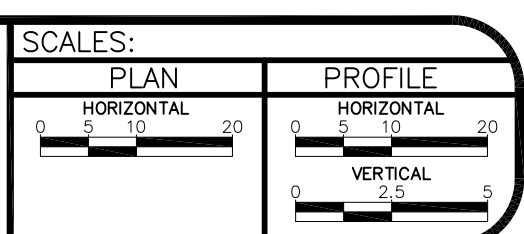
**CONSTRUCTION NOTES**

377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.

378 SP COAT ENTIRE MANHOLE WITH EPOXY COATING. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)

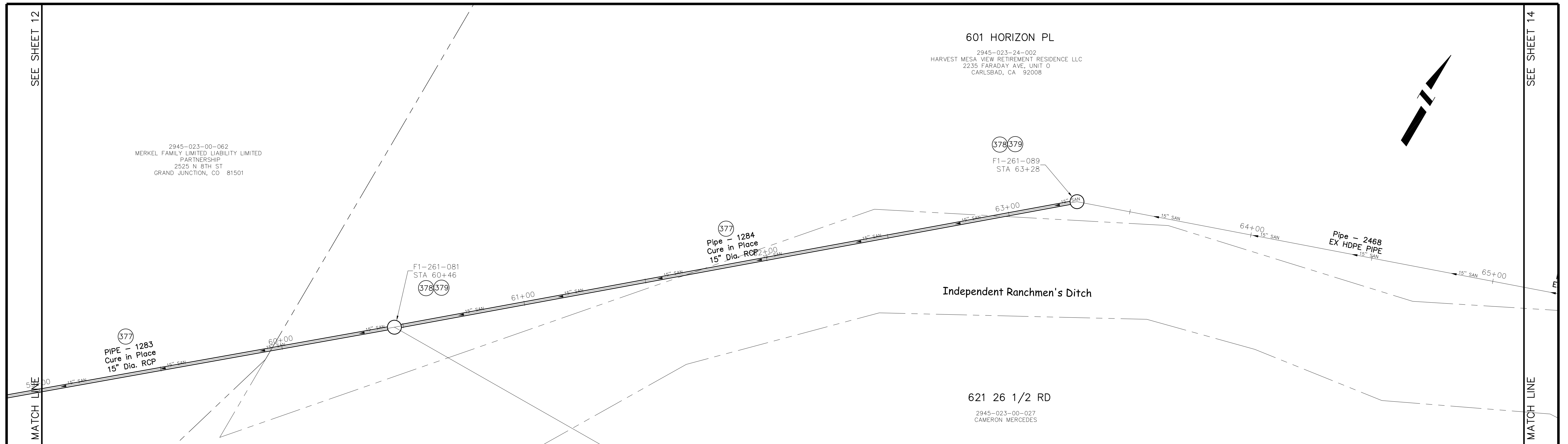
379 SP RECONDITION EXISTING MANHOLE BENCH. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)

REVISION	DESCRIPTION	DATE	DRAWN BY	JCS	DATE	2011
REVISION			DESIGNED BY		DATE	
REVISION			CHECKED BY		DATE	
REVISION			APPROVED BY		DATE	

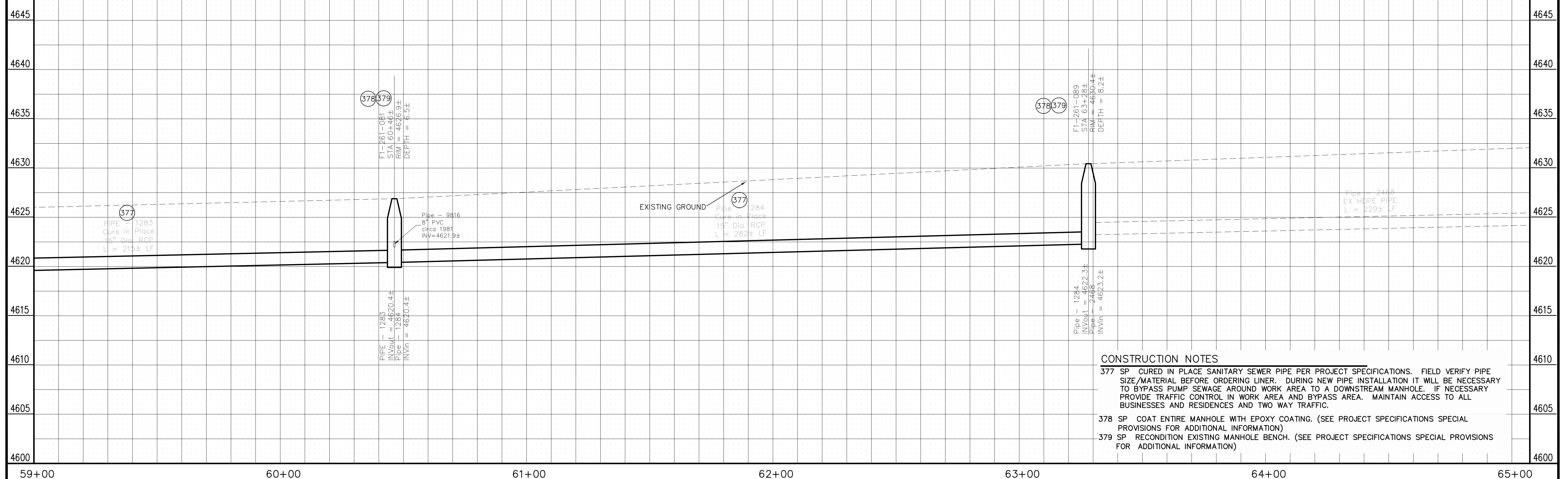


**PUBLIC WORKS  
 AND PLANNING  
 ENGINEERING DIVISION**

2011 Sewer Interceptor Repair and Replacements Plan and Profile from 1150' E of Willowbrook Rd & Northridge Dr Intersection to 800' W of 26 1/2 Rd Along the N side of Independent Ranchmen's Ditch



Sewer Line from 800' to 200' W of 26 1/2 Rd Along the N side of Independent Ranchmen's Ditch



CONSTRUCTION NOTES

- 377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
- 378 SP COAT ENTIRE MANHOLE WITH EPOXY COATING. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)
- 379 SP RECONDITION EXISTING MANHOLE BENCH. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)

REVISION	DESCRIPTION	DATE
AS BUILT		2-2012

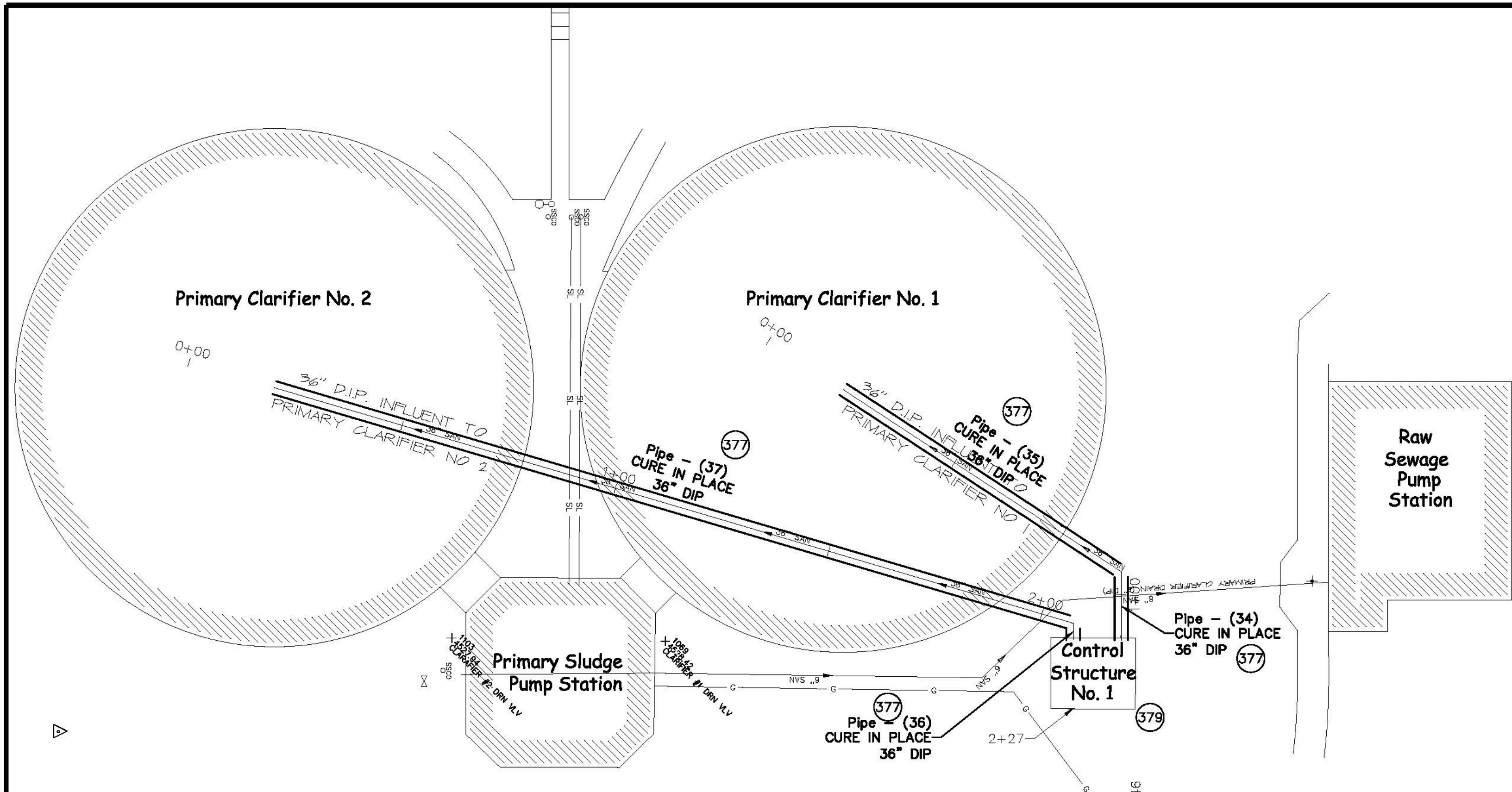
DESIGNED BY	JCS	DATE	2011
CHECKED BY		DATE	
APPROVED BY		DATE	

SCALES:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'



**PUBLIC WORKS AND PLANNING ENGINEERING DIVISION**

2011 Sewer Interceptor Repair and Replacements Plan and Profile from 800' to 200' W of 26 1/2 Rd Along the N side of Independent Ranchmen's Ditch

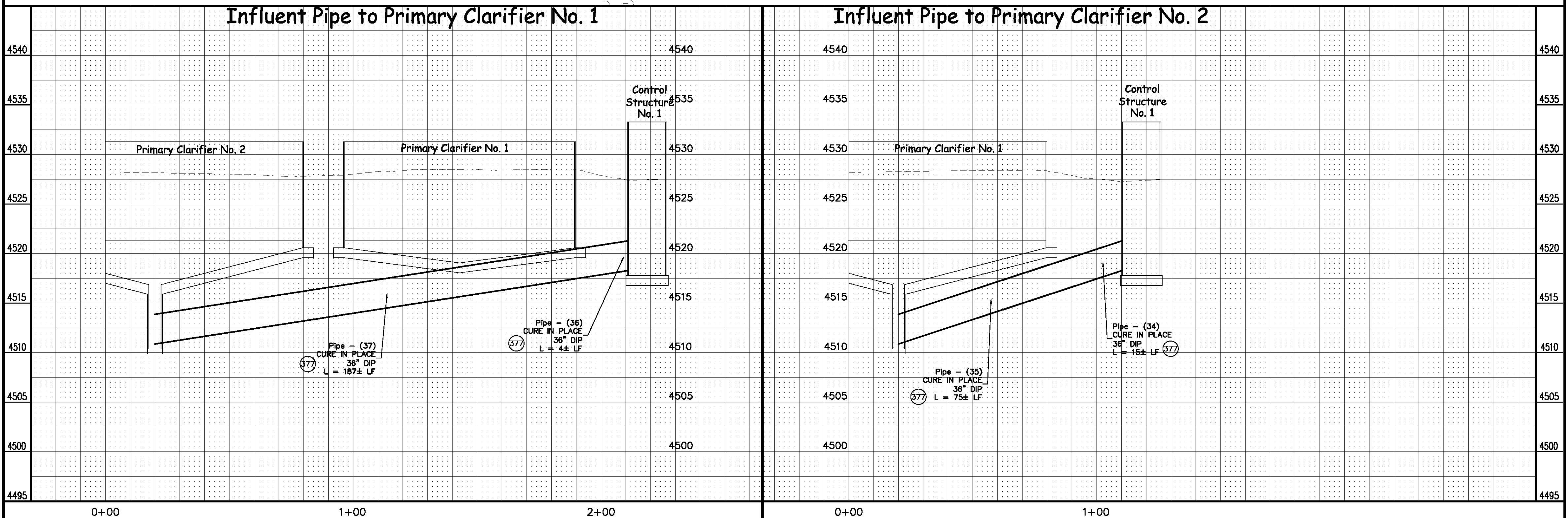


**CONSTRUCTION NOTES**

- 377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
- 379 SP REMOVE/REST HAND RAILING AT CONTROL STRUCTURE NO.1 (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)

**Influent Pipe to Primary Clarifier No. 1**

**Influent Pipe to Primary Clarifier No. 2**



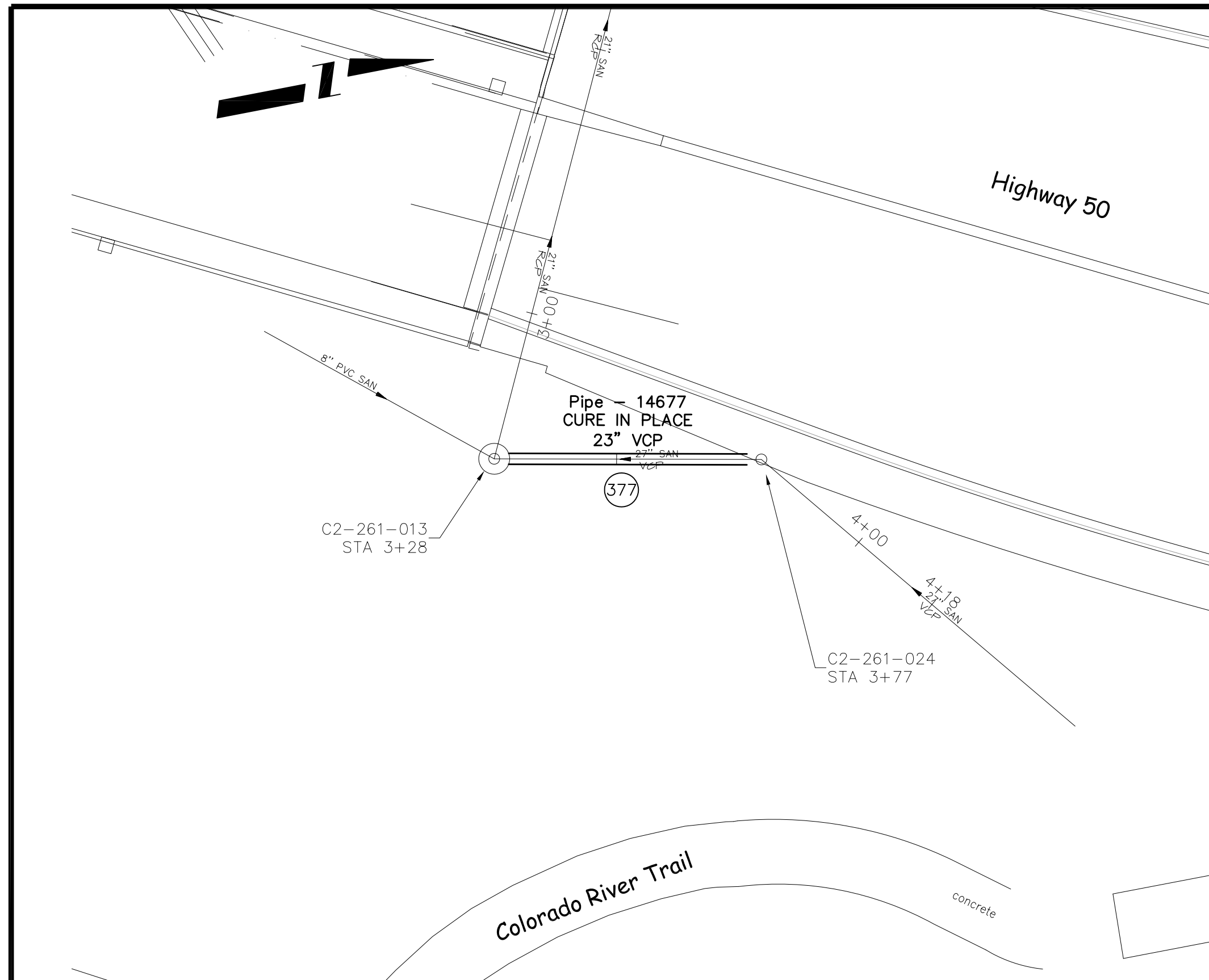
REVISION $\Delta$ AS BUILT	DATE 2-2012	DRAWN BY JCS	DATE 2011
REVISION $\Delta$		DESIGNED BY	DATE
REVISION $\Delta$		CHECKED BY	DATE
REVISION $\Delta$		APPROVED BY	DATE

SCALES:	
PLAN HORIZONTAL 0 5 10 20	PROFILE HORIZONTAL 0 5 10 20 VERTICAL 0 2.5 5

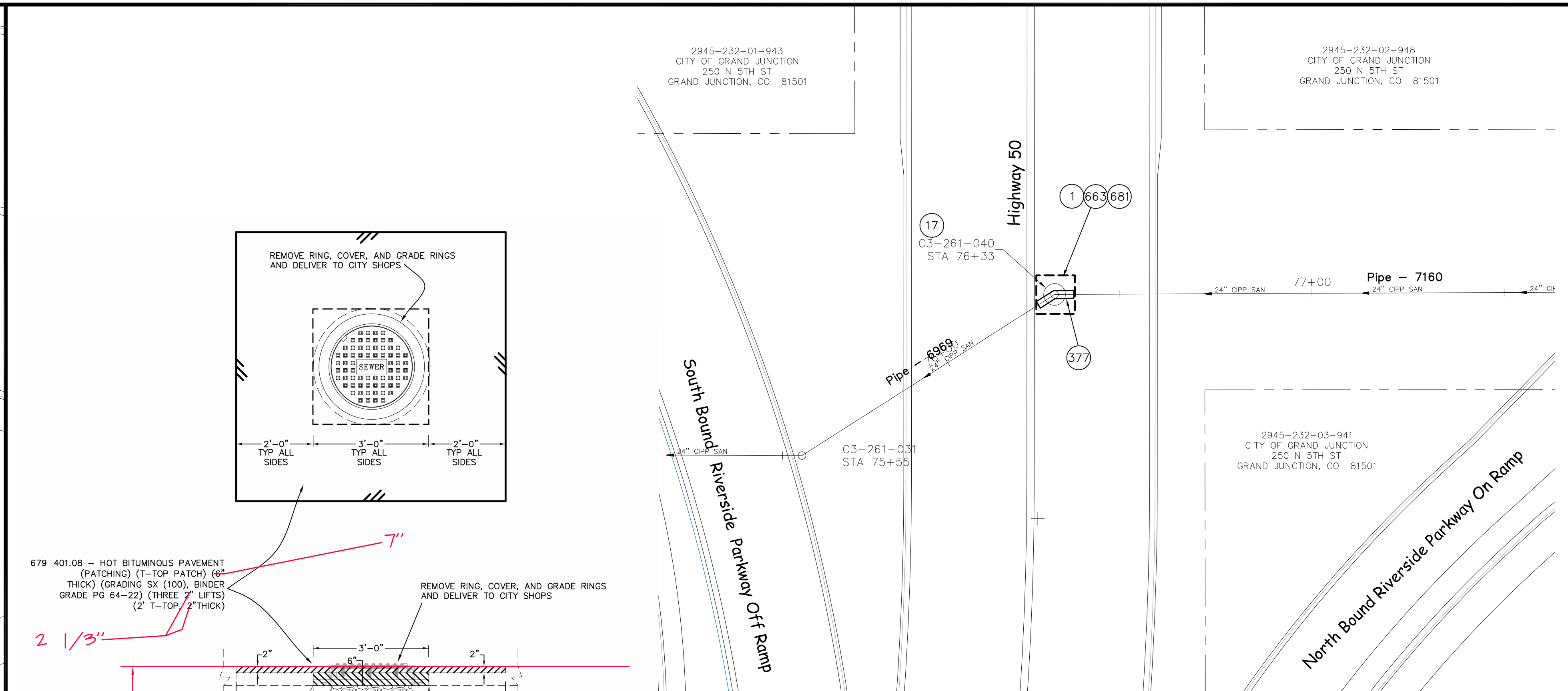
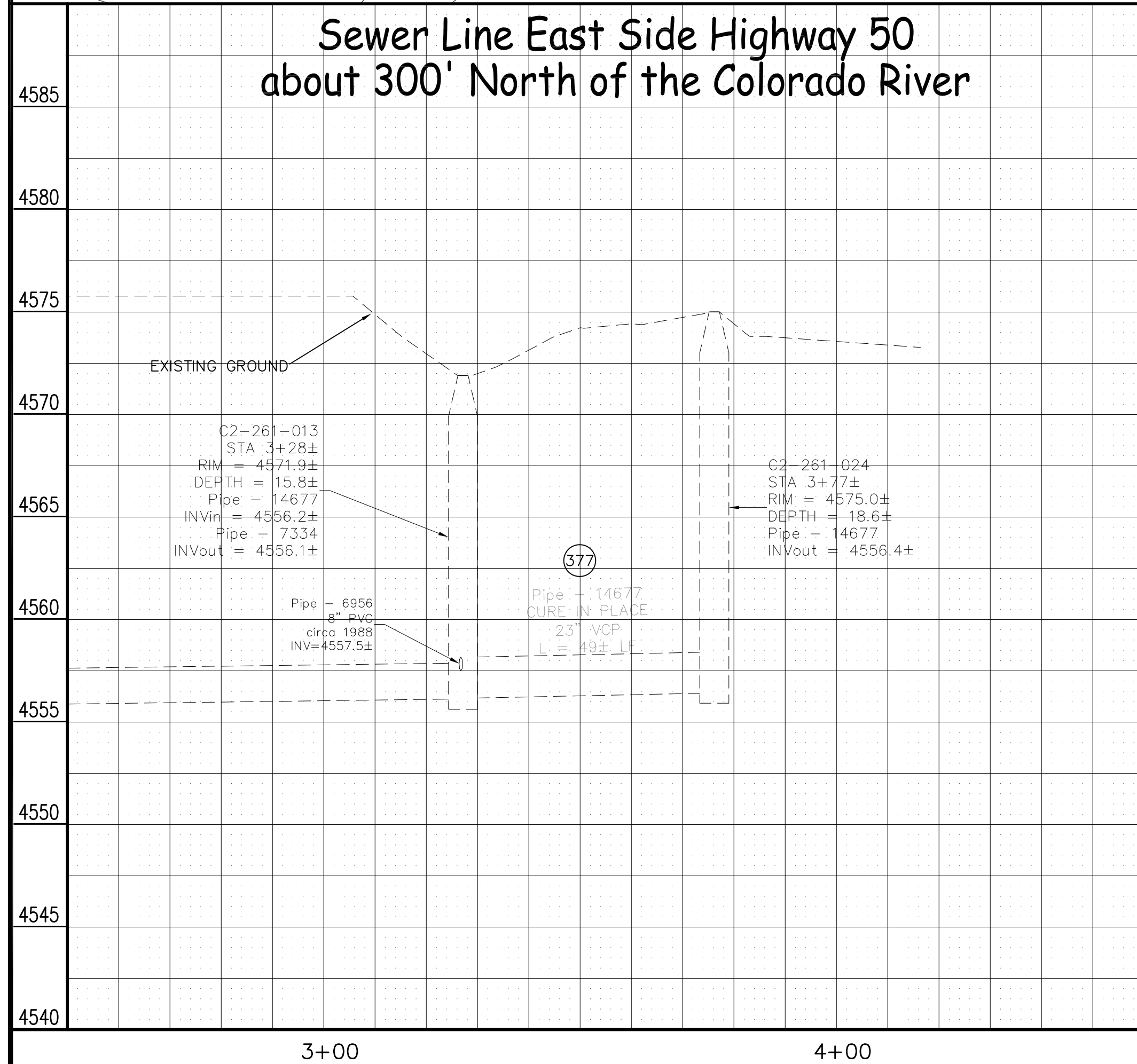


**PUBLIC WORKS  
AND PLANNING  
ENGINEERING DIVISION**

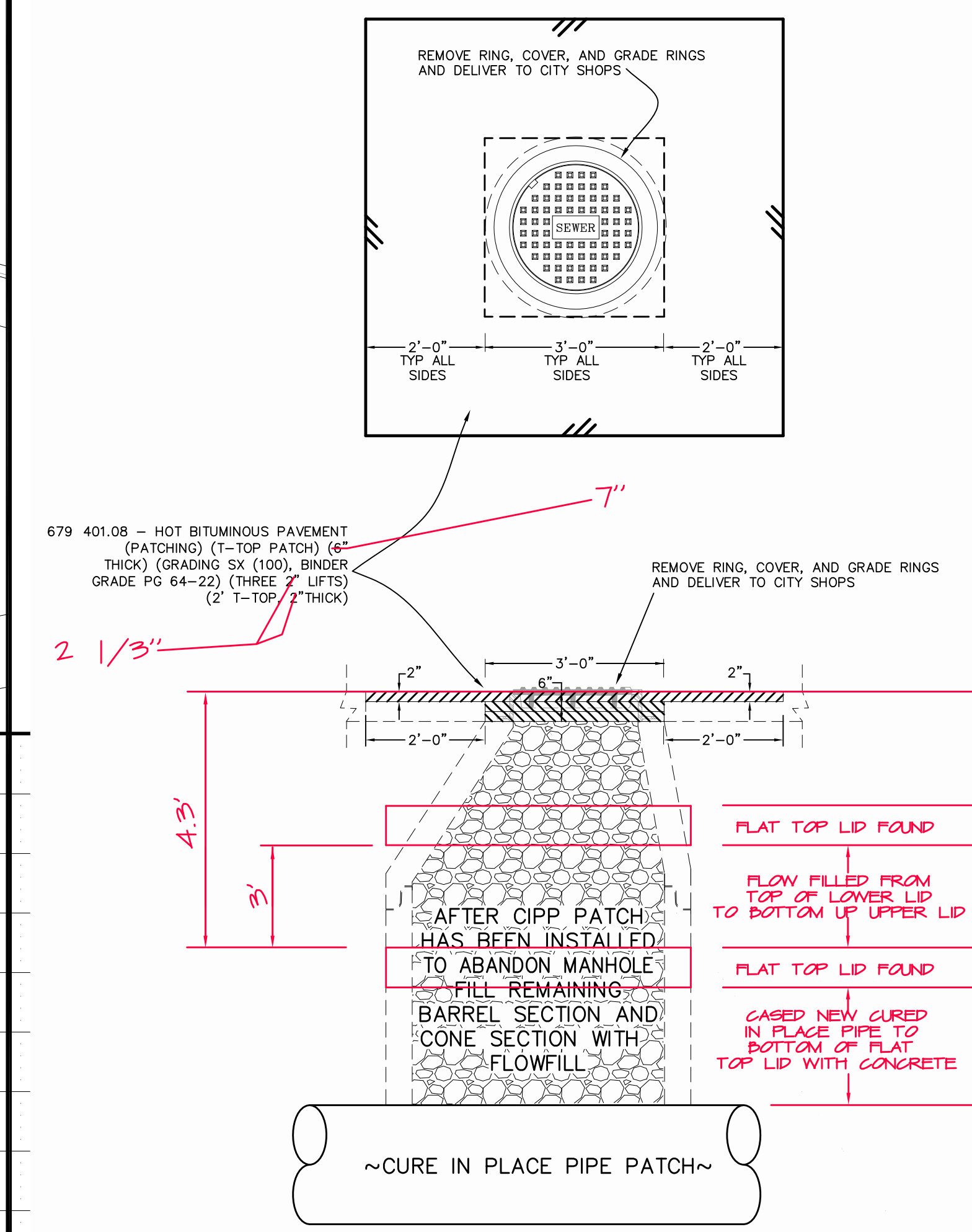
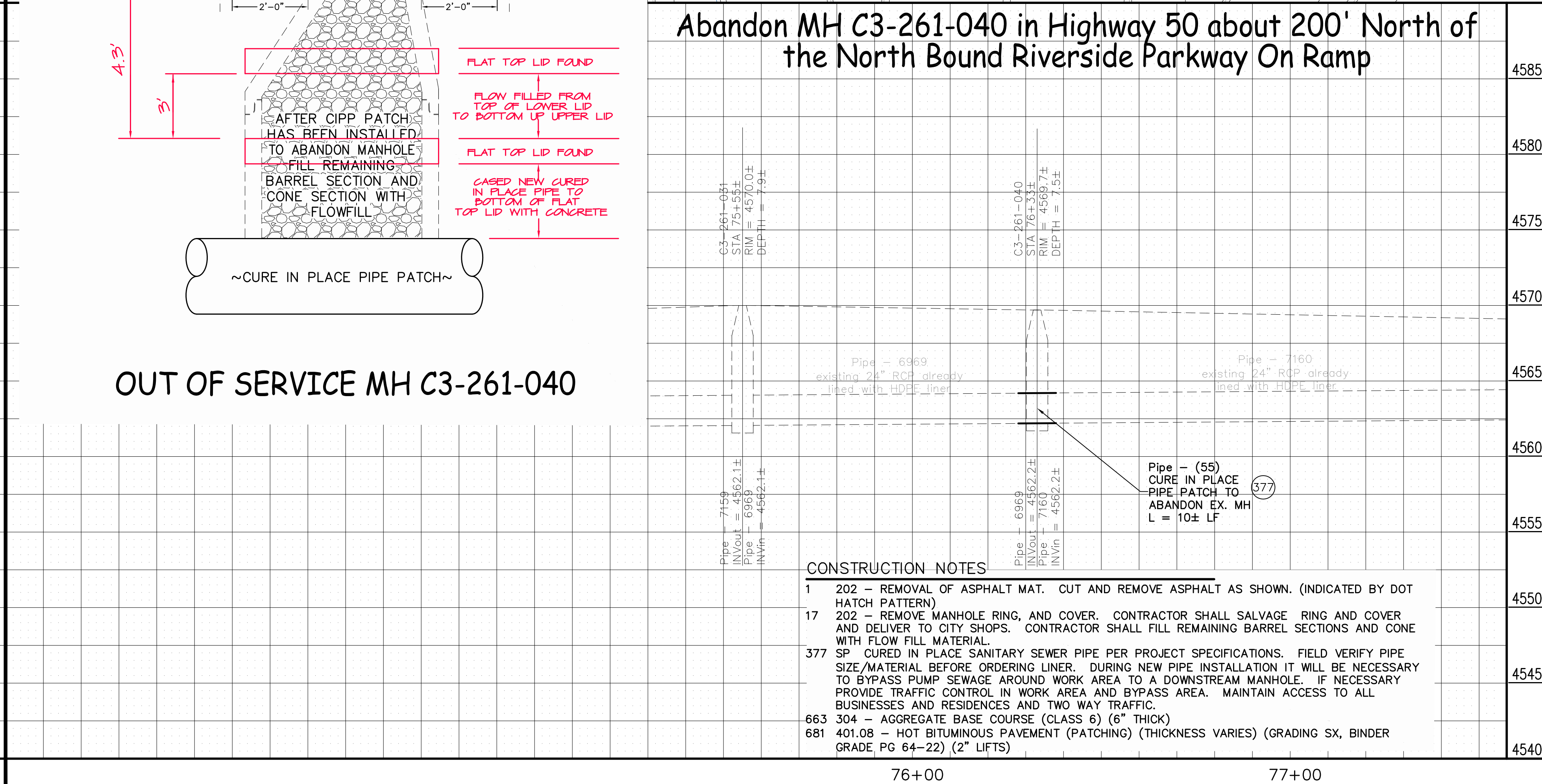
**2011 Sewer Interceptor Repair and Replacements  
Plan and Profile for Influent Pipes to Primary Clarifiers No. 1 & 2  
at Persigo Wash Wastewater Treatment Plant**



**Sewer Line East Side Highway 50  
about 300' North of the Colorado River**



**Abandon MH C3-261-040 in Highway 50 about 200' North of  
the North Bound Riverside Parkway On Ramp**



**OUT OF SERVICE MH C3-261-040**

- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 17 202 - REMOVE MANHOLE RING, AND COVER. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS. CONTRACTOR SHALL FILL REMAINING BARREL SECTIONS AND CONE WITH FLOW FILL MATERIAL.
  - 377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
  - 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (THICKNESS VARIES) (GRADING SX, BINDER GRADE, PG 64-22) (2" LIFTS)

REVISION $\Delta$ AS BUILT	DESCRIPTION	DATE	2-2012	DRAWN BY	JCS	DATE	2011
REVISION $\Delta$				DESIGNED BY		DATE	
REVISION $\Delta$				CHECKED BY		DATE	
REVISION $\Delta$				APPROVED BY		DATE	

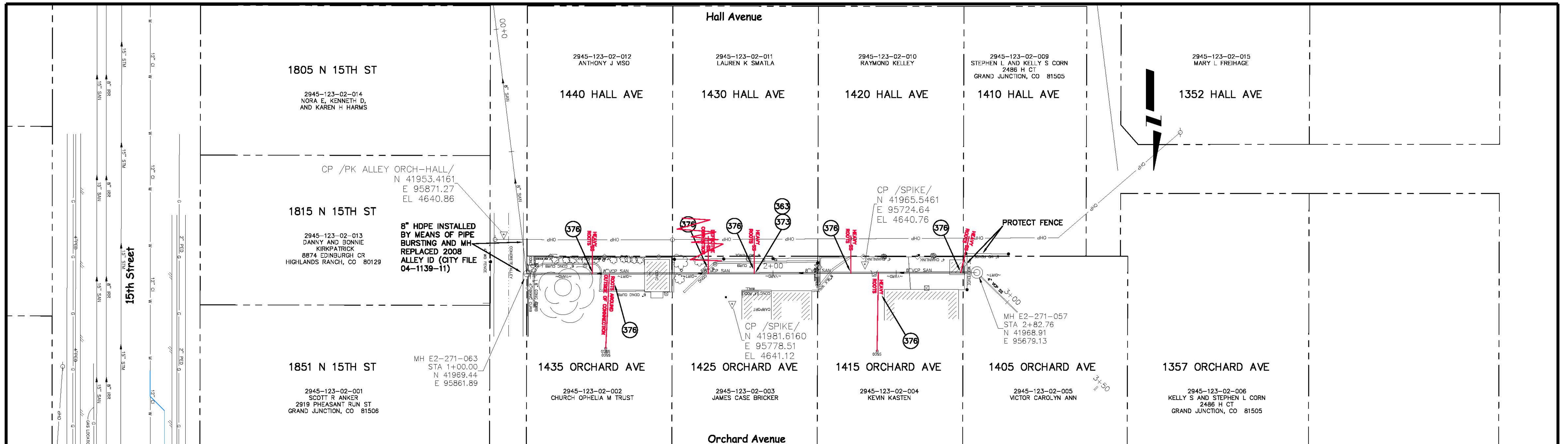
SCALES:

PLAN	PROFILE
HORIZONTAL	HORIZONTAL
1" = 20'	1" = 10'
	VERTICAL
	1" = 2.5'

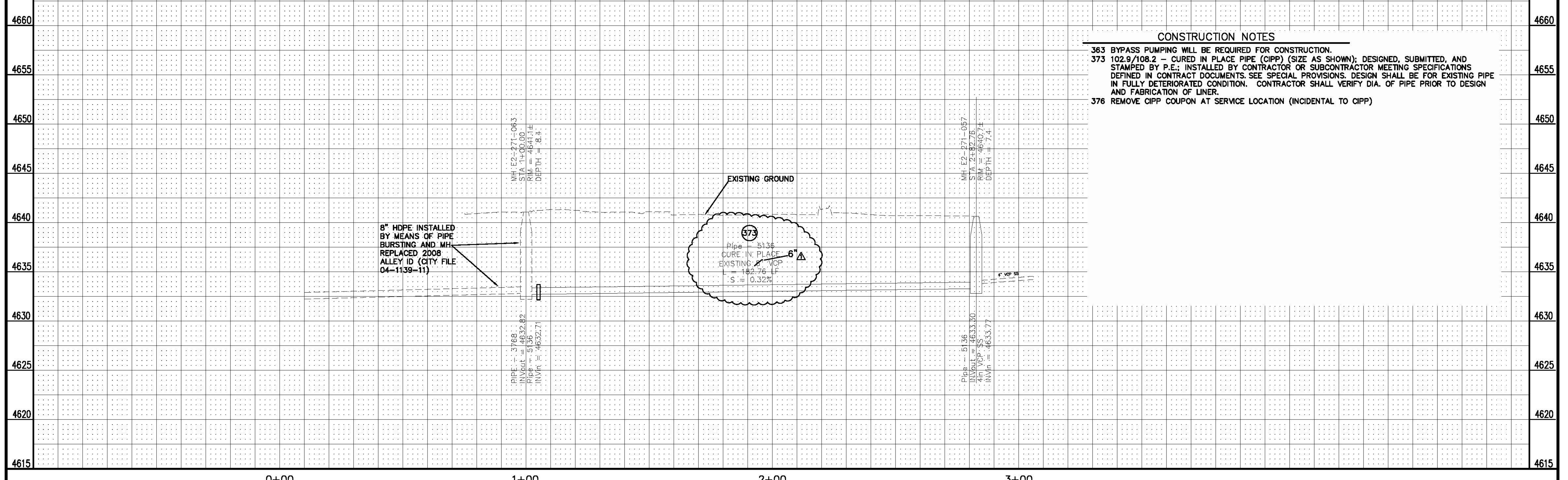
**CITY OF Grand Junction COLORADO**

**PUBLIC WORKS AND PLANNING ENGINEERING DIVISION**

**2011 Sewer Interceptor Repair and Replacements Plan and Profile Sewer Line East side Highway 50 about 300' N of the Colorado River and Abandon MH C3-261-040 in Highway 50 about 200' N of the NB Riverside Parkway On Ramp**



**SEWER LINE NORTH OF HALL AVE, SOUTH OF ORCHARD AVE. BETWEEN 14TH AND 15TH ST**



**CONSTRUCTION NOTES**

363 BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.

373 102.9/108.2 - CURED IN PLACE PIPE (CIPP) (SIZE AS SHOWN); DESIGNED, SUBMITTED, AND STAMPED BY P.E.; INSTALLED BY CONTRACTOR OR SUBCONTRACTOR MEETING SPECIFICATIONS DEFINED IN CONTRACT DOCUMENTS. DESIGN SHALL BE FOR EXISTING PIPE IN FULLY DETERIORATED CONDITION. CONTRACTOR SHALL VERIFY DIA. OF PIPE PRIOR TO DESIGN AND FABRICATION OF LINER.

376 REMOVE CIPP COUPON AT SERVICE LOCATION (INCIDENTAL TO CIPP)

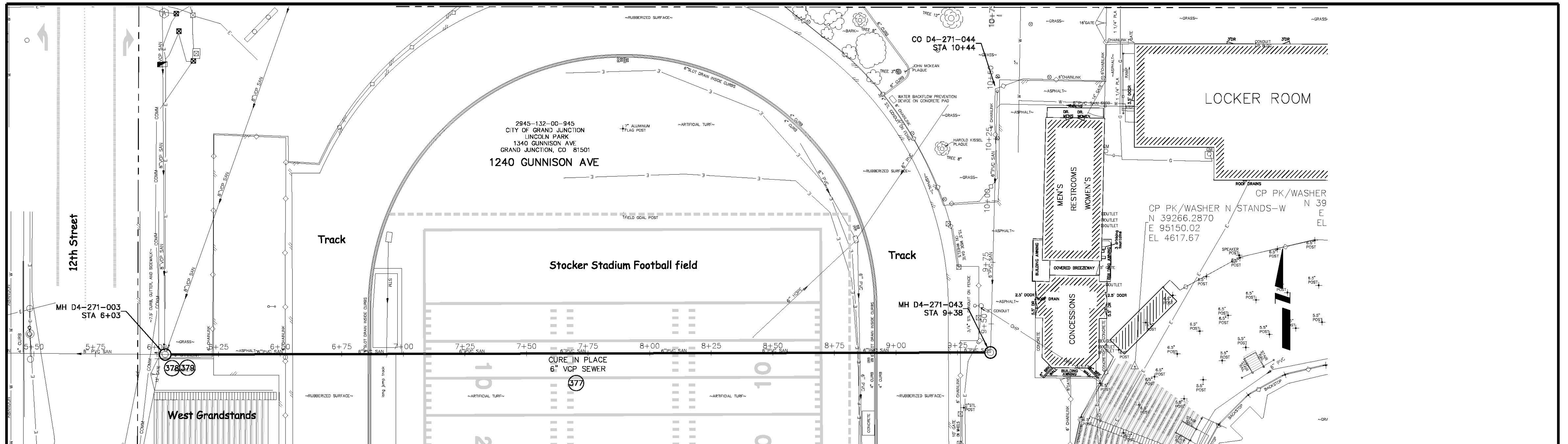
REVISION	DESCRIPTION	DATE	DRAWN BY	JCS	DATE
REVISION $\Delta$	ADDENDUM NO. 1	2011-02-15			2011
REVISION $\Delta$	AS BUILT	2-2012			
REVISION $\Delta$					
REVISION $\Delta$					

SCALES:	
PLAN HORIZONTAL	1" = 20'
PROFILE HORIZONTAL	1" = 20'
VERTICAL	1" = 2.5'



**PUBLIC WORKS  
AND PLANNING  
ENGINEERING DIVISION**

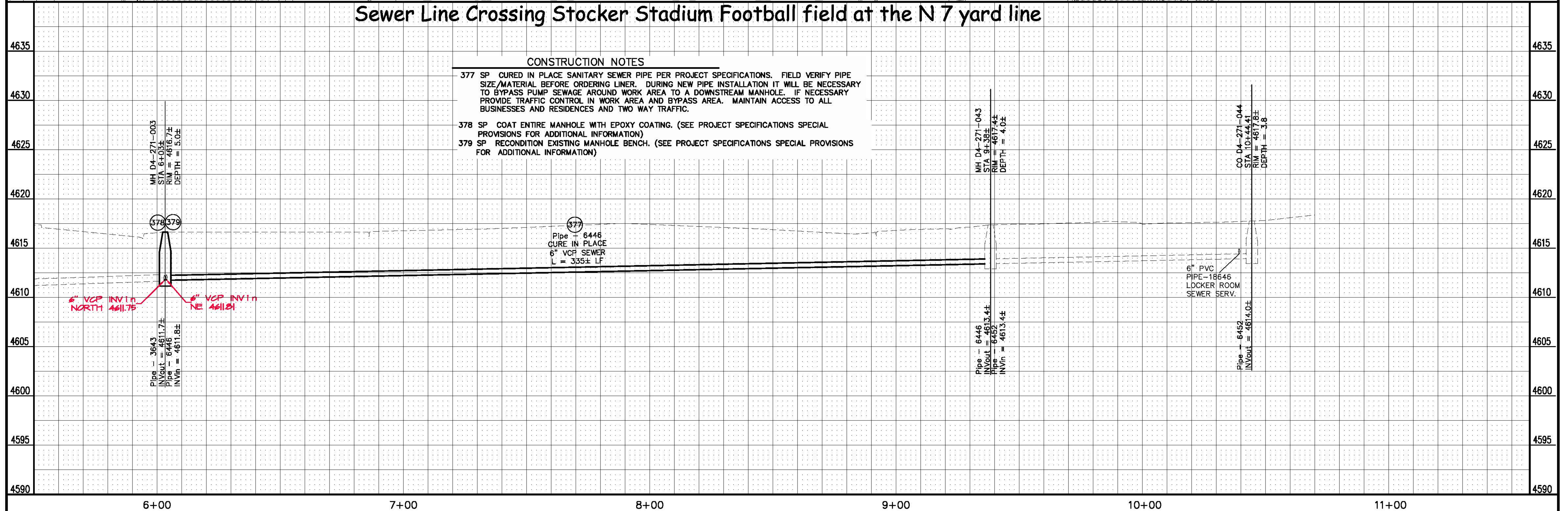
**2011 Sewer Line Replacements  
SANITARY SEWER LINE PLAN AND PROFILE  
from 14th St to 15th St N of Hall Ave. S of Orchard Ave.**



### Sewer Line Crossing Stocker Stadium Football field at the N 7 yard line

#### CONSTRUCTION NOTES

- 377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
- 378 SP COAT ENTIRE MANHOLE WITH EPOXY COATING. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)
- 379 SP RECONDITION EXISTING MANHOLE BENCH. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)



REVISION	DESCRIPTION	DATE
AS BUILT		2-2012

DRAWN BY	JCS	DATE	2011
DESIGNED BY		DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	

SCALES:	
PLAN HORIZONTAL 0 5 10 20	PROFILE HORIZONTAL 0 5 10 20 VERTICAL 0 2.5 5

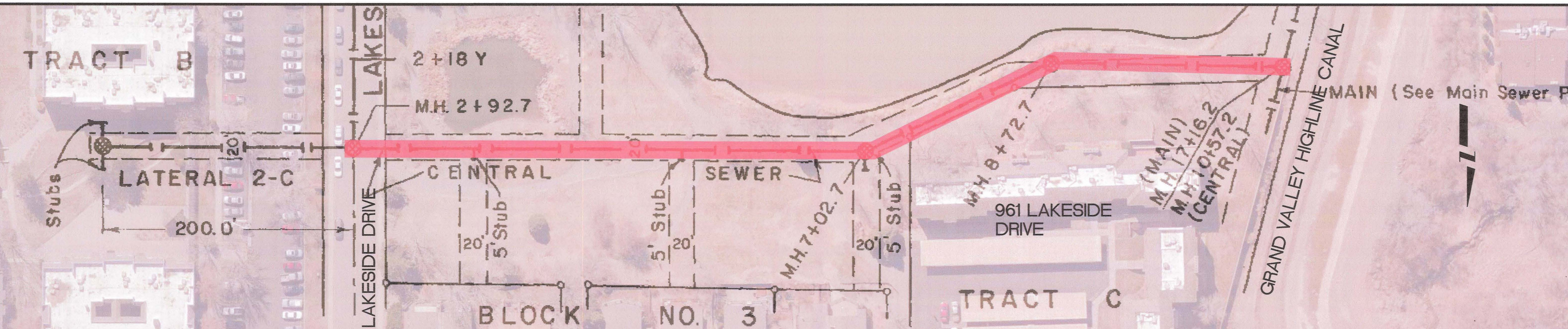


**PUBLIC WORKS  
AND PLANNING  
ENGINEERING DIVISION**

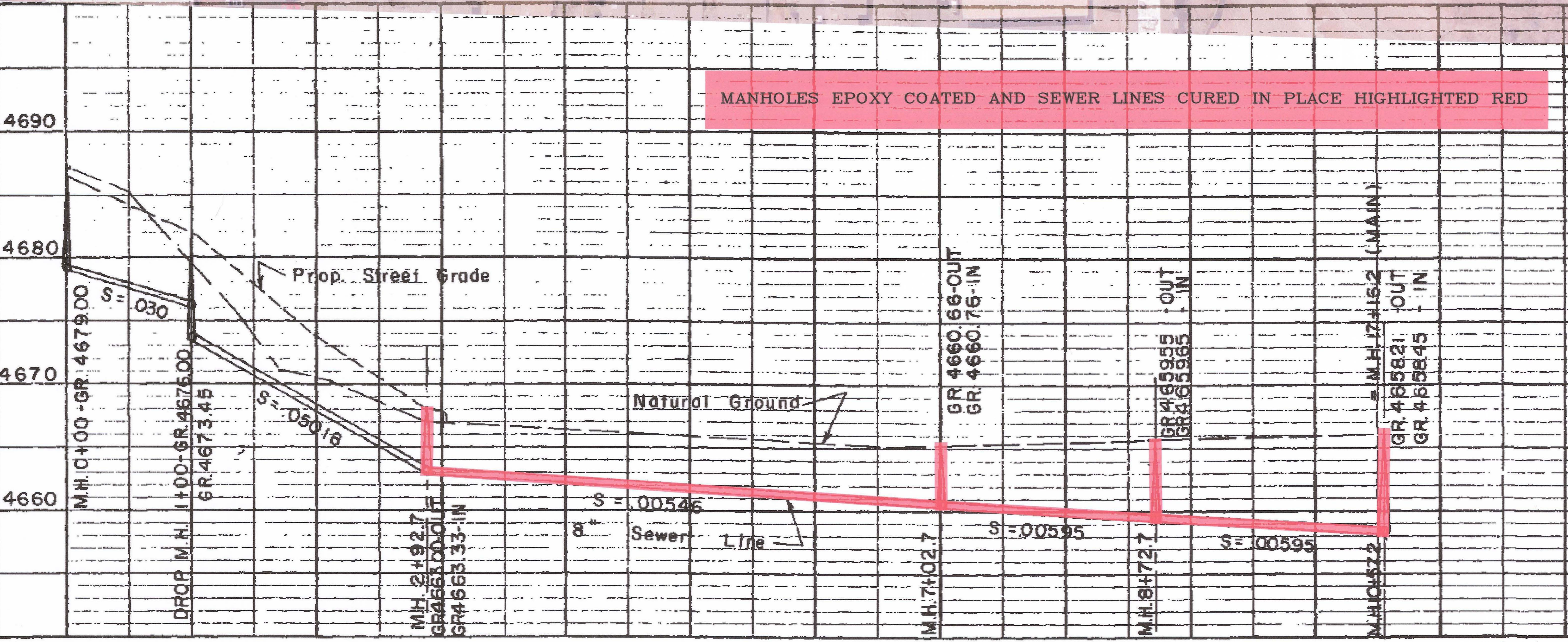
**2011 Sewer Interceptor Replacements  
SANITARY SEWER LINE PLAN AND PROFILE  
Crossing Stocker Stadium Football field at the N 7 yard line**







MANHOLES EPOXY COATED AND SEWER LINES CURED IN PLACE HIGHLIGHTED RED



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE

REVISION	DESCRIPTION	DATE	DESIGNED BY	DATE

REVISION	DESCRIPTION	DATE	CHECKED BY	DATE

REVISION	DESCRIPTION	DATE	APPROVED BY	DATE

SCALES:
PLAN: 1" = 20'
PROFILE: HORIZONTAL 1" = 20', VERTICAL 1" = 4'



PUBLIC WORKS AND PLANNING ENGINEERING DIVISION

2011 SEWER INTERCEPTOR REPAIR AND REPLACEMENTS SEWER LINE CIPP SOUTH OF LAKESIDE DR.

ON THE HORIZON LLC  
PROPERTY (VACANT)

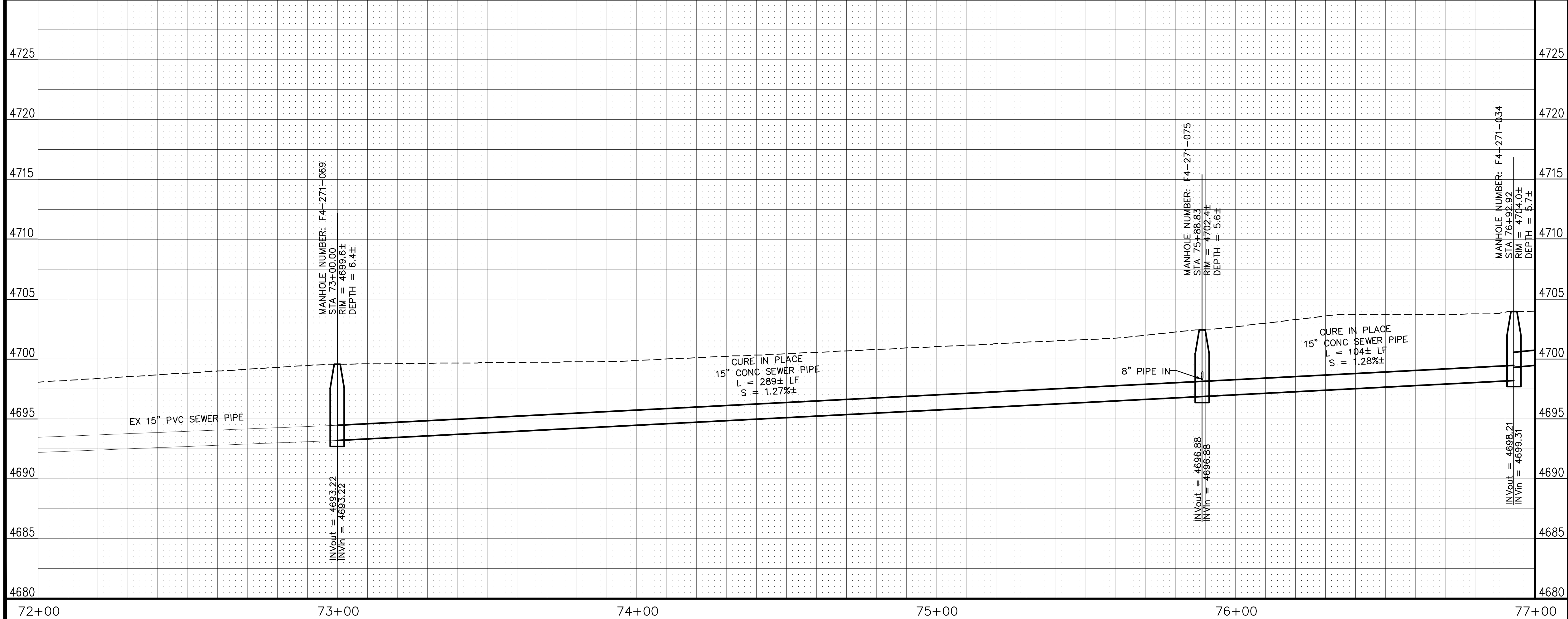
PIZZA HUT  
705 HORIZON DR

HORIZON DR

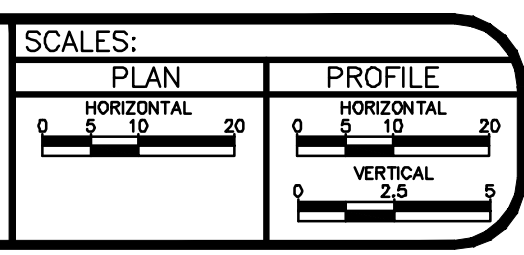
EPSTEIN  
PROPERTY (VACANT)

EPSTEIN  
PROPERTY (VACANT)

- CONSTRUCTION NOTES
- 377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
  - 378 SP COAT ENTIRE MANHOLE WITH EPOXY COATING. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)
  - 379 SP RECONDITION EXISTING MANHOLE BENCH. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)



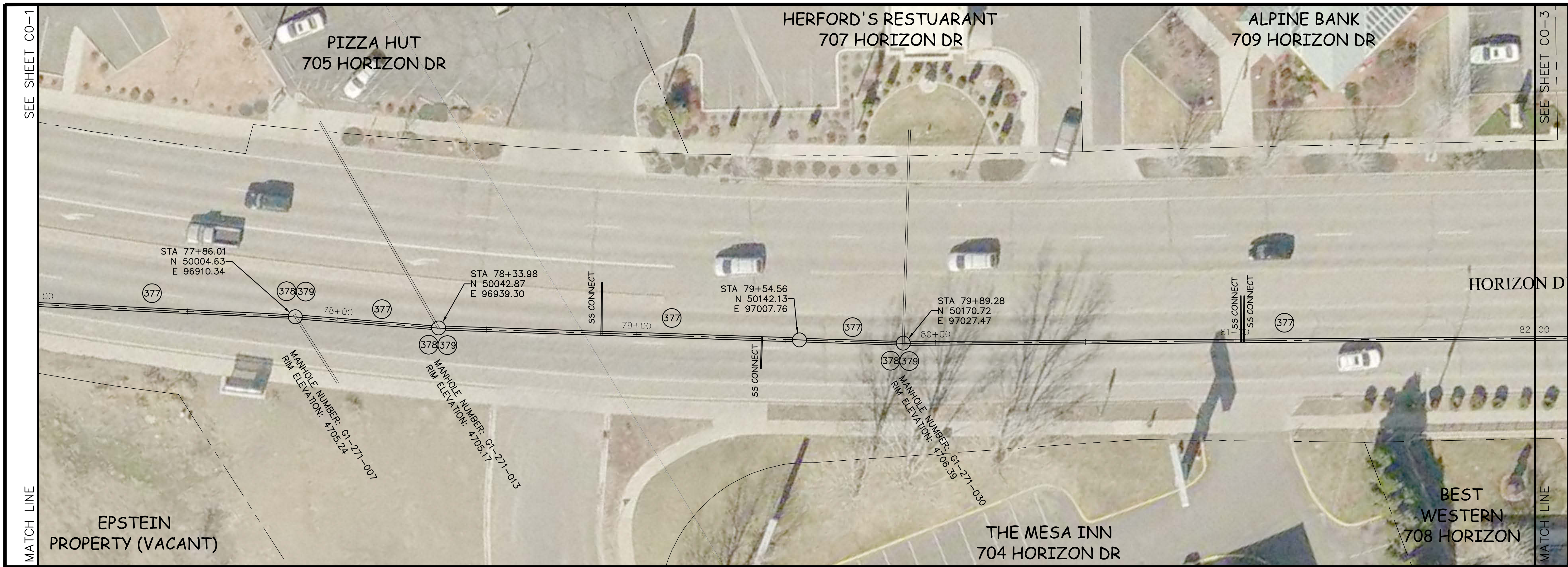
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
AS BUILT		2-2012	XXX	201X
			XXX	201X



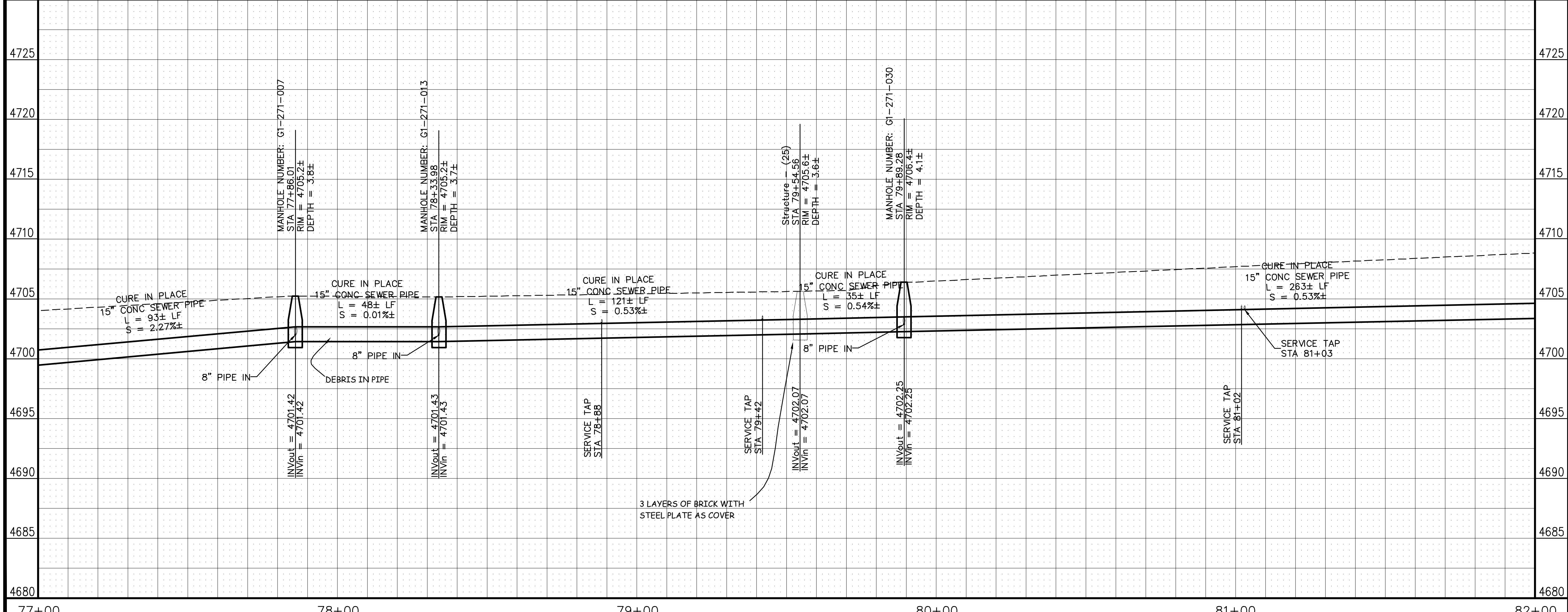
PUBLIC WORKS  
AND PLANNING  
ENGINEERING DIVISION

2011 SEWER INTERCEPTOR REPAIR & REPLACEMENTS  
HORIZON DRIVE INTERCEPTOR FROM SOUTH WEST OF G RD  
TO NORTH EAST OF I70

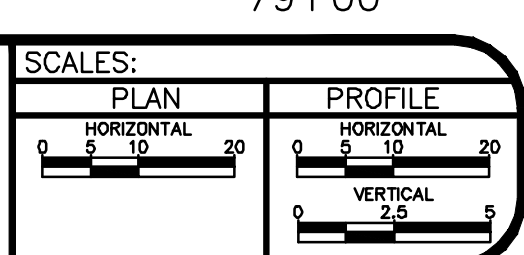
101



- CONSTRUCTION NOTES**
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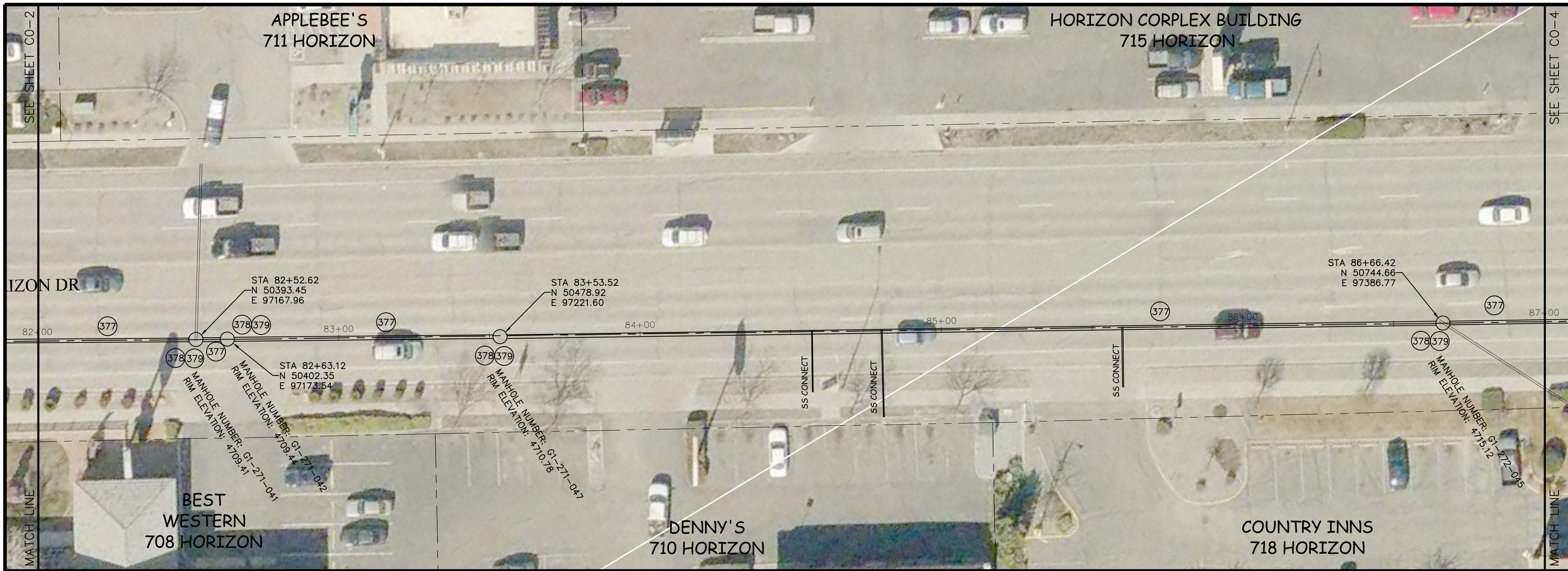


REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
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4				

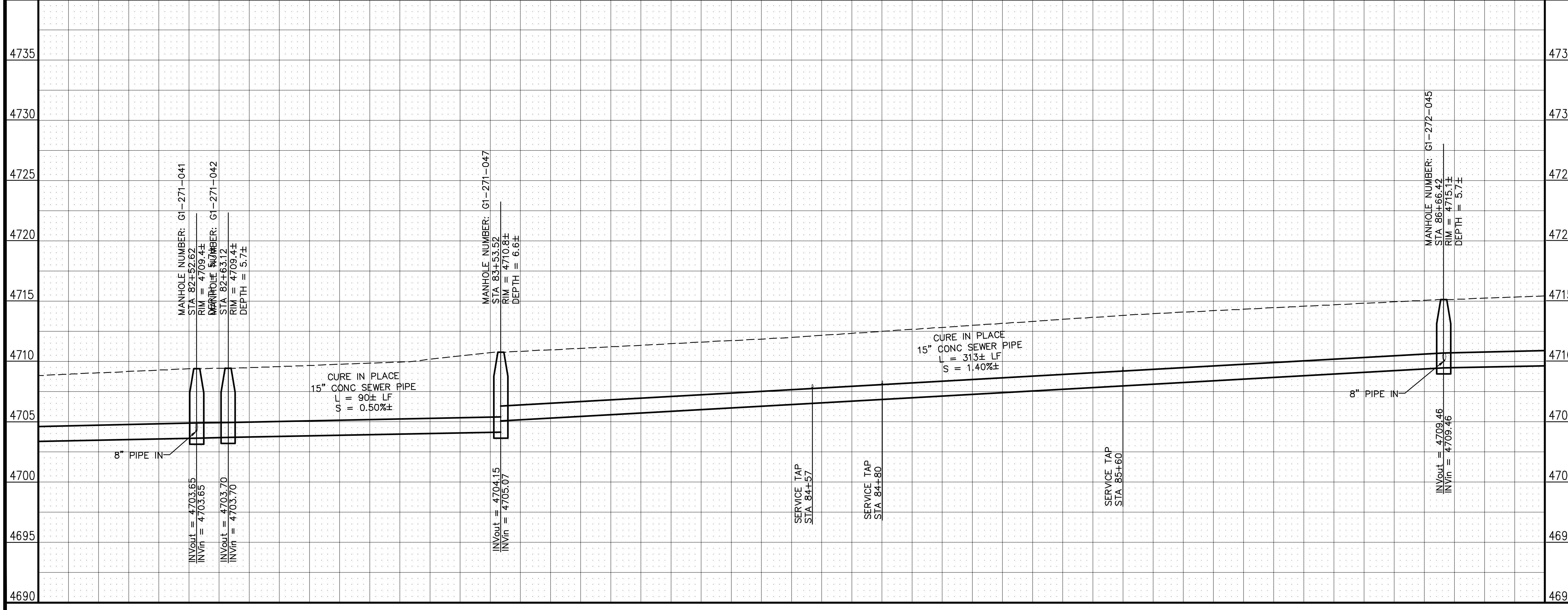


**PUBLIC WORKS  
AND PLANNING  
ENGINEERING DIVISION**

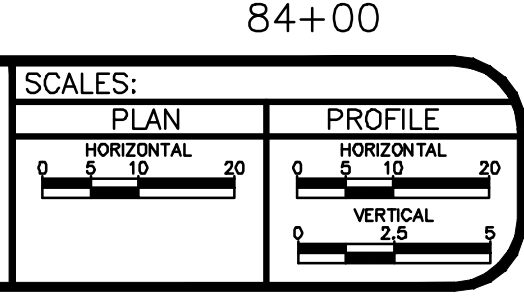
**2011 SEWER INTERCEPTOR REPAIR & REPLACEMENTS  
HORIZON DRIVE INTERCEPTOR FROM SOUTH WEST OF G RD  
TO NORTH EAST OF I70**



CONSTRUCTION NOTES	
377	SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
378	SP COAT ENTIRE MANHOLE WITH EPOXY COATING. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)
379	SP RECONDITION EXISTING MANHOLE BENCH. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)

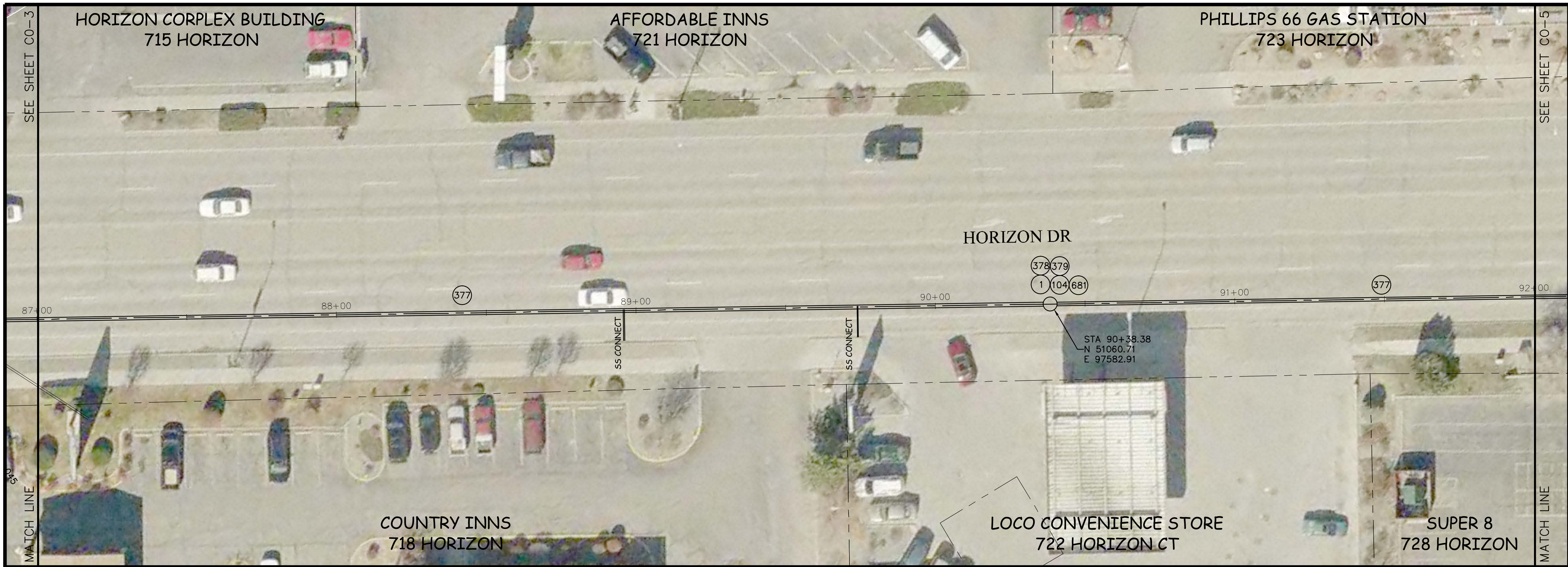


REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
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2			XXX	201X
3				
4				

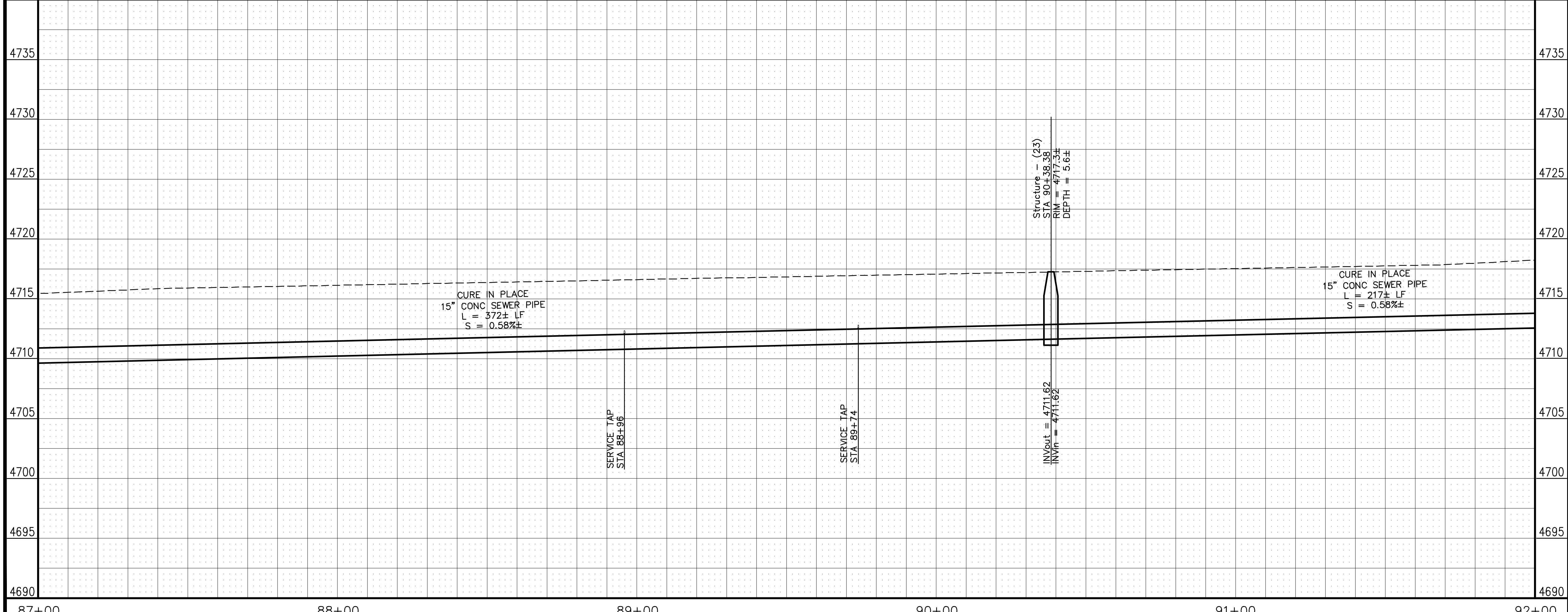


**PUBLIC WORKS AND PLANNING ENGINEERING DIVISION**

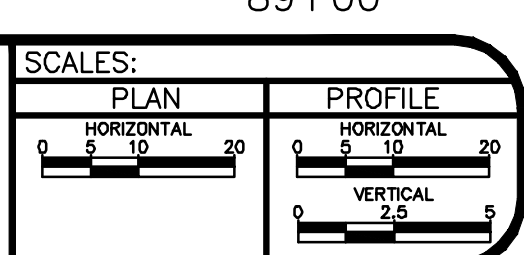
**2011 SEWER INTERCEPTOR REPAIR & REPLACEMENTS  
HORIZON DRIVE INTERCEPTOR FROM SOUTH WEST OF G RD  
TO NORTH EAST OF I70**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 104 210 - ADJUST MANHOLE RIM TO GRADE.
  - 377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
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  - 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)



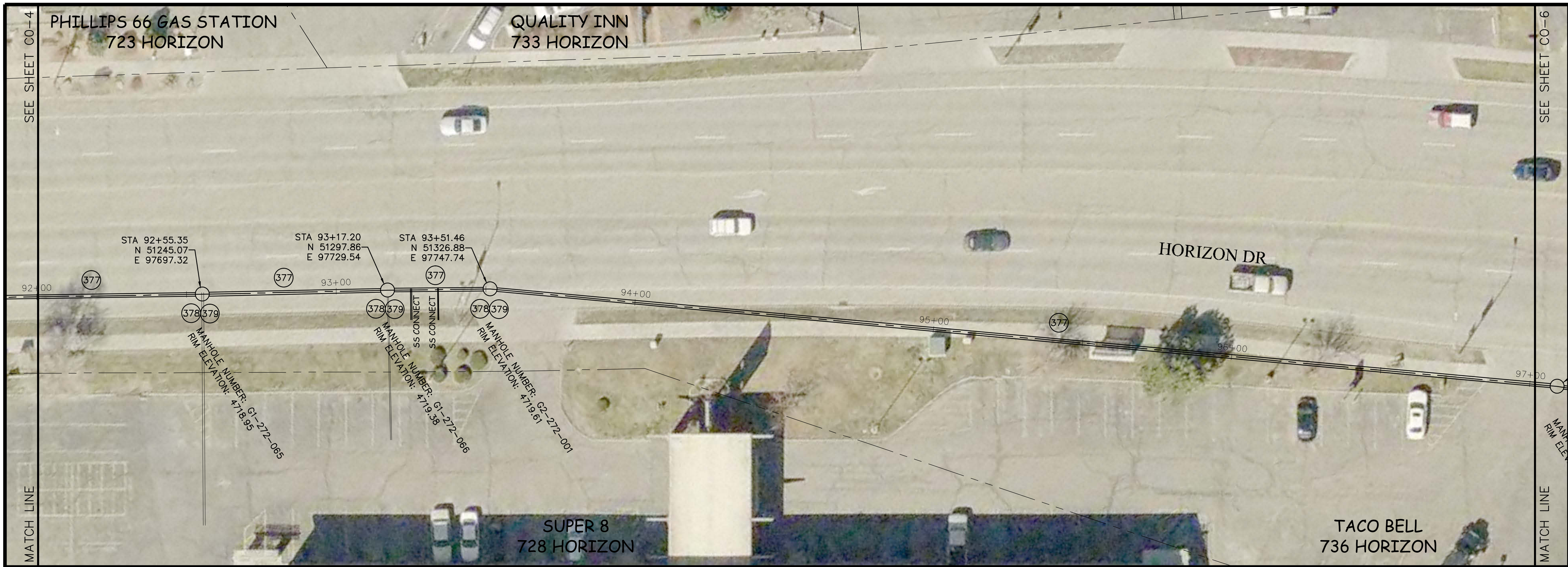
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	AS BUILT	2-12	XXX	201X
2			XXX	201X
3				
4				



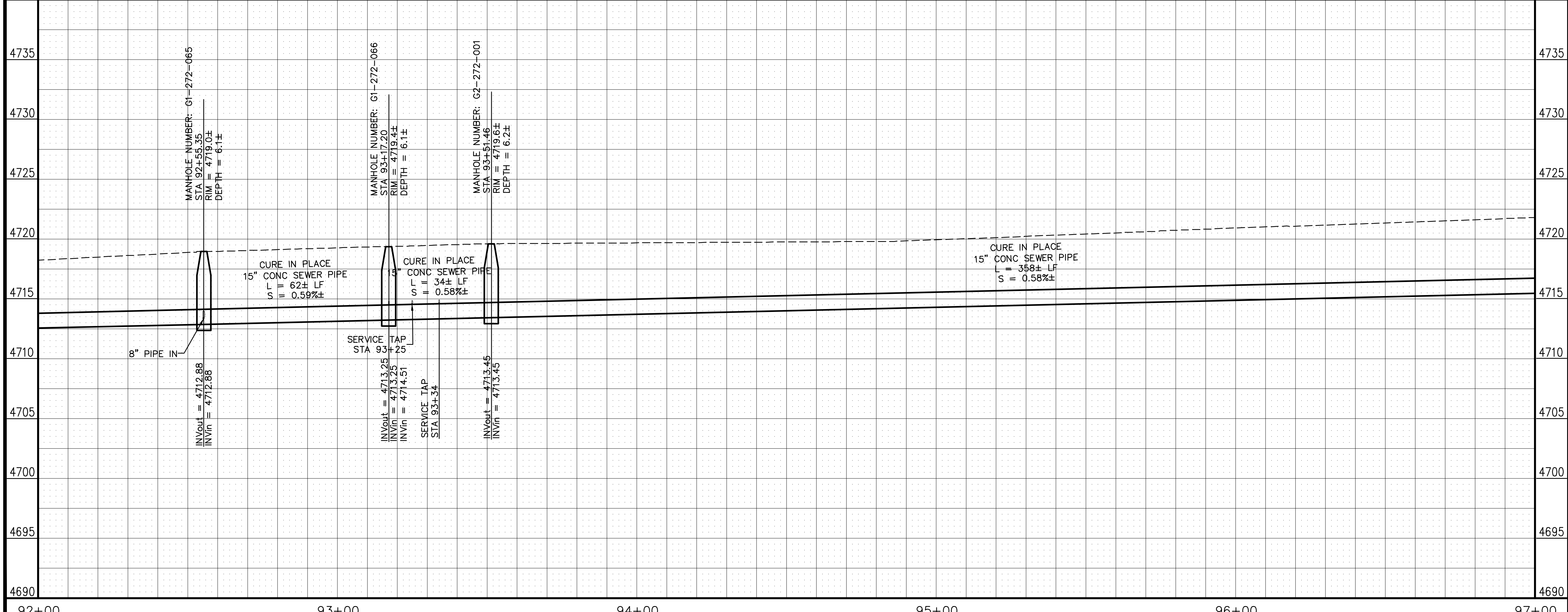
**PUBLIC WORKS AND PLANNING ENGINEERING DIVISION**

**2011 SEWER INTERCEPTOR REPAIR & REPLACEMENTS  
HORIZON DRIVE INTERCEPTOR FROM SOUTH WEST OF G RD  
TO NORTH EAST OF I70**

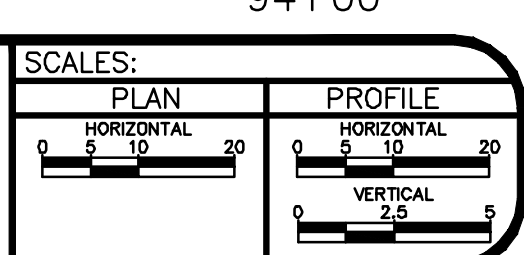
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- CONSTRUCTION NOTES**
- 377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWER AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
  - 378 SP COAT ENTIRE MANHOLE WITH EPOXY COATING. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)
  - 379 SP RECONDITION EXISTING MANHOLE BENCH. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	AS PLT	2-12	XXX	201X
2			XXX	201X
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4				

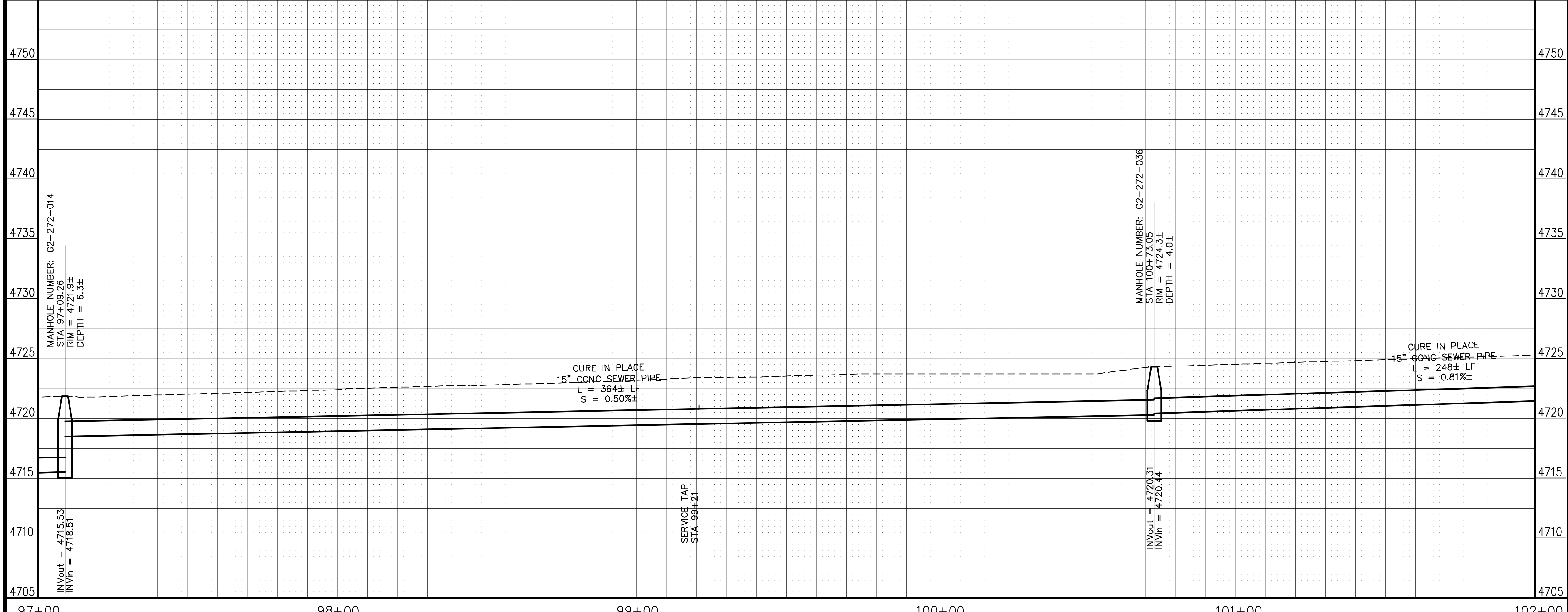


**PUBLIC WORKS AND PLANNING ENGINEERING DIVISION**

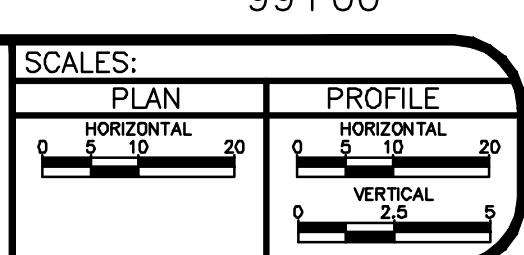
**2011 SEWER INTERCEPTOR REPAIR & REPLACEMENTS  
HORIZON DRIVE INTERCEPTOR FROM SOUTH WEST OF G RD  
TO NORTH EAST OF I70**



- CONSTRUCTION NOTES**
- 377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
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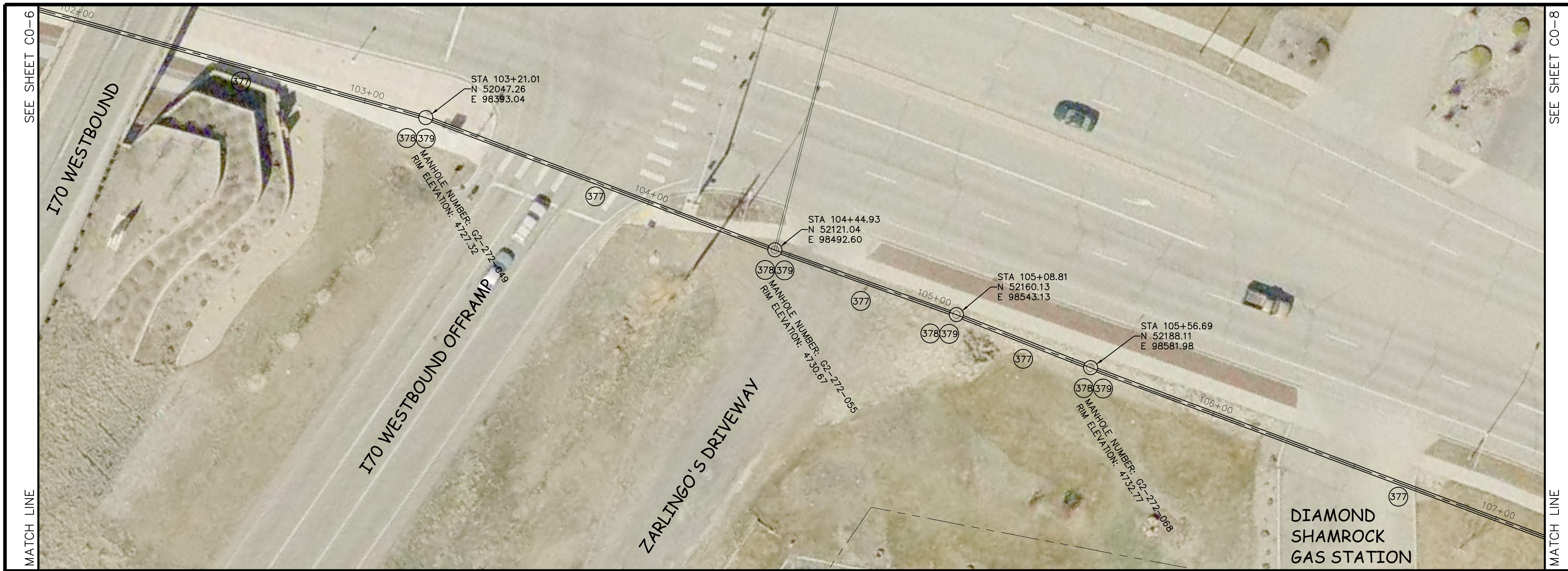
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
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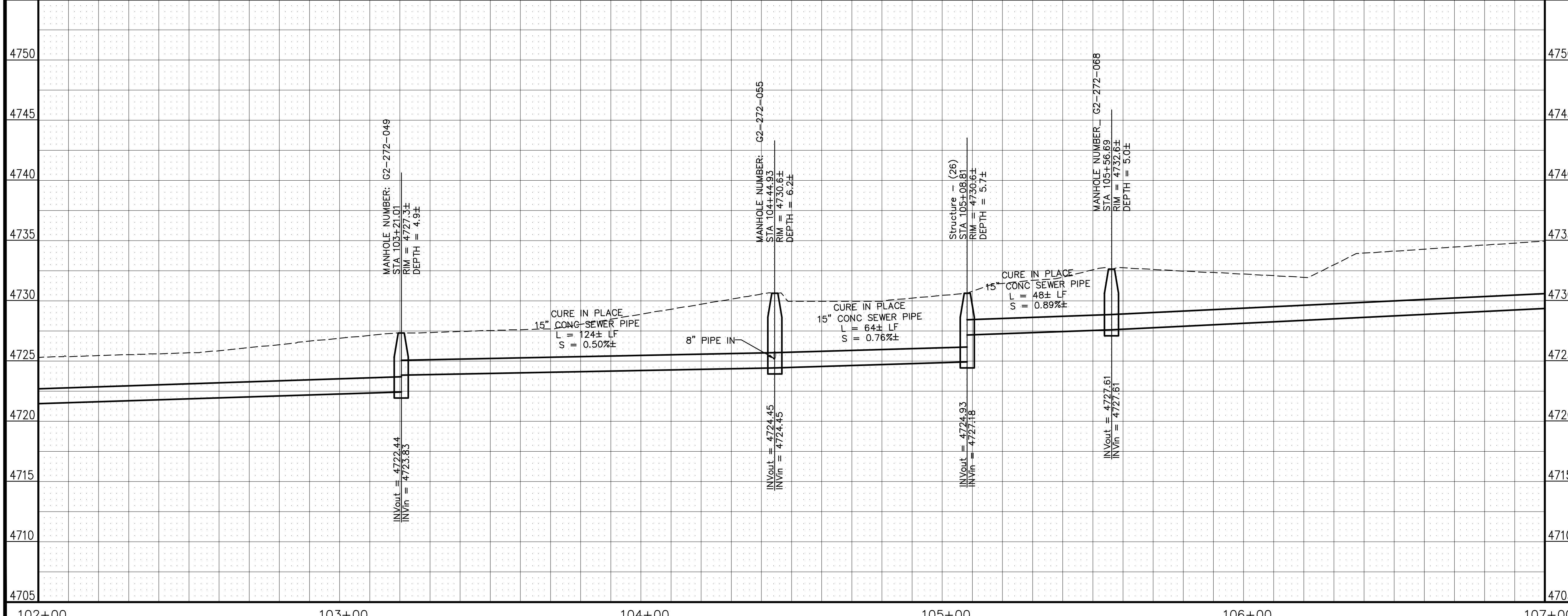
**PUBLIC WORKS  
AND PLANNING  
ENGINEERING DIVISION**

**2011 SEWER INTERCEPTOR REPAIR & REPLACEMENTS  
HORIZON DRIVE INTERCEPTOR FROM SOUTH WEST OF G RD  
TO NORTH EAST OF I70**

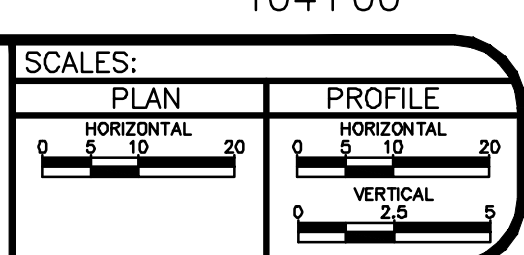




- CONSTRUCTION NOTES**
- 377 SP CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. FIELD VERIFY PIPE SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK AREA TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
  - 378 SP COAT ENTIRE MANHOLE WITH EPOXY COATING. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)
  - 379 SP RECONDITION EXISTING MANHOLE BENCH. (SEE PROJECT SPECIFICATIONS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)

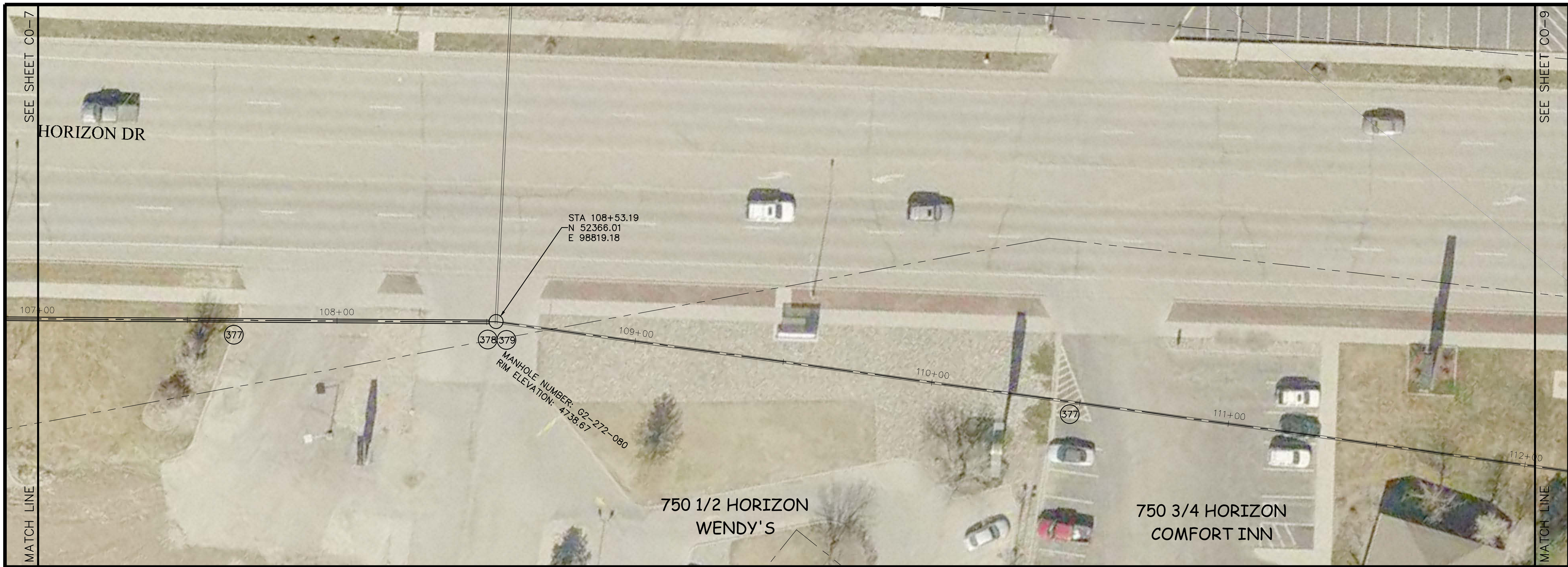


REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	AS BUILT	2-12	XXX	201X
2			XXX	201X
3				
4				

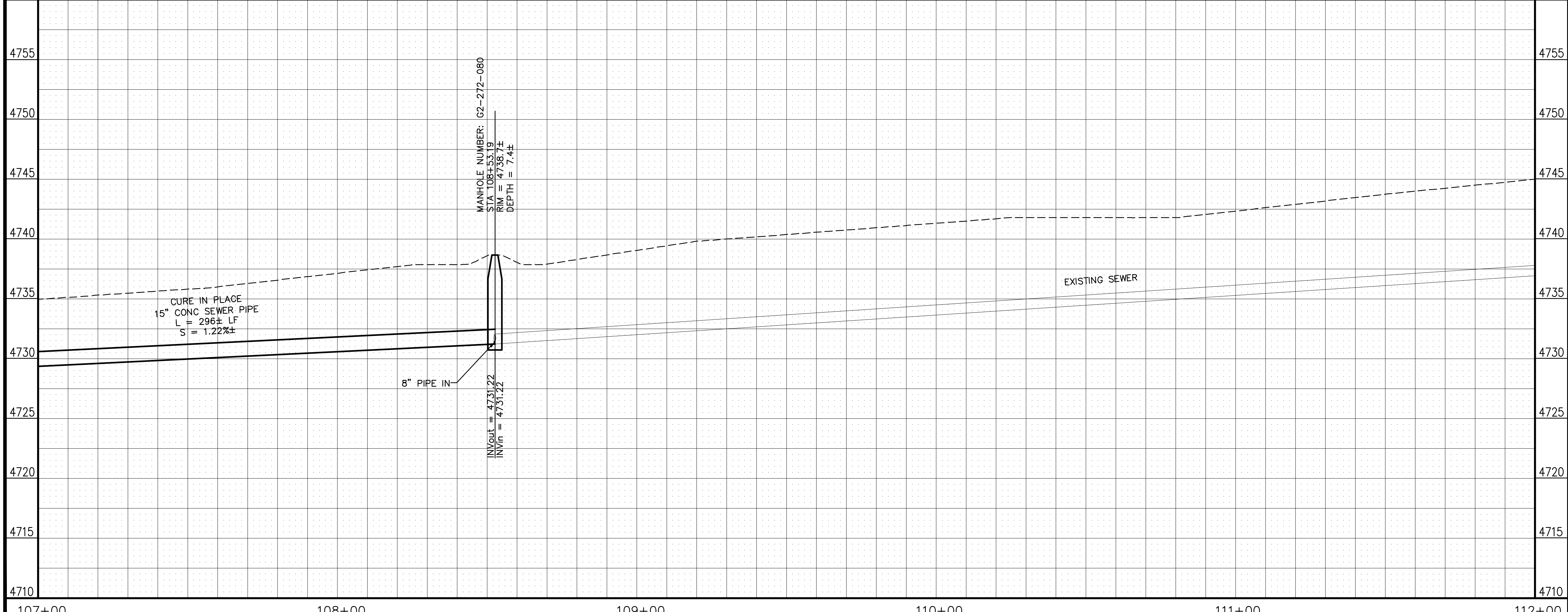


**PUBLIC WORKS AND PLANNING ENGINEERING DIVISION**

**2011 SEWER INTERCEPTOR REPAIR & REPLACEMENTS  
HORIZON DRIVE INTERCEPTOR FROM SOUTH WEST OF G RD  
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1	AS BUILT	2-12	XXX	201X
2			XXX	201X
3				
4				

SCALES:

PLAN: 1" = 10'

PROFILE: HORIZONTAL 1" = 10', VERTICAL 1" = 2'

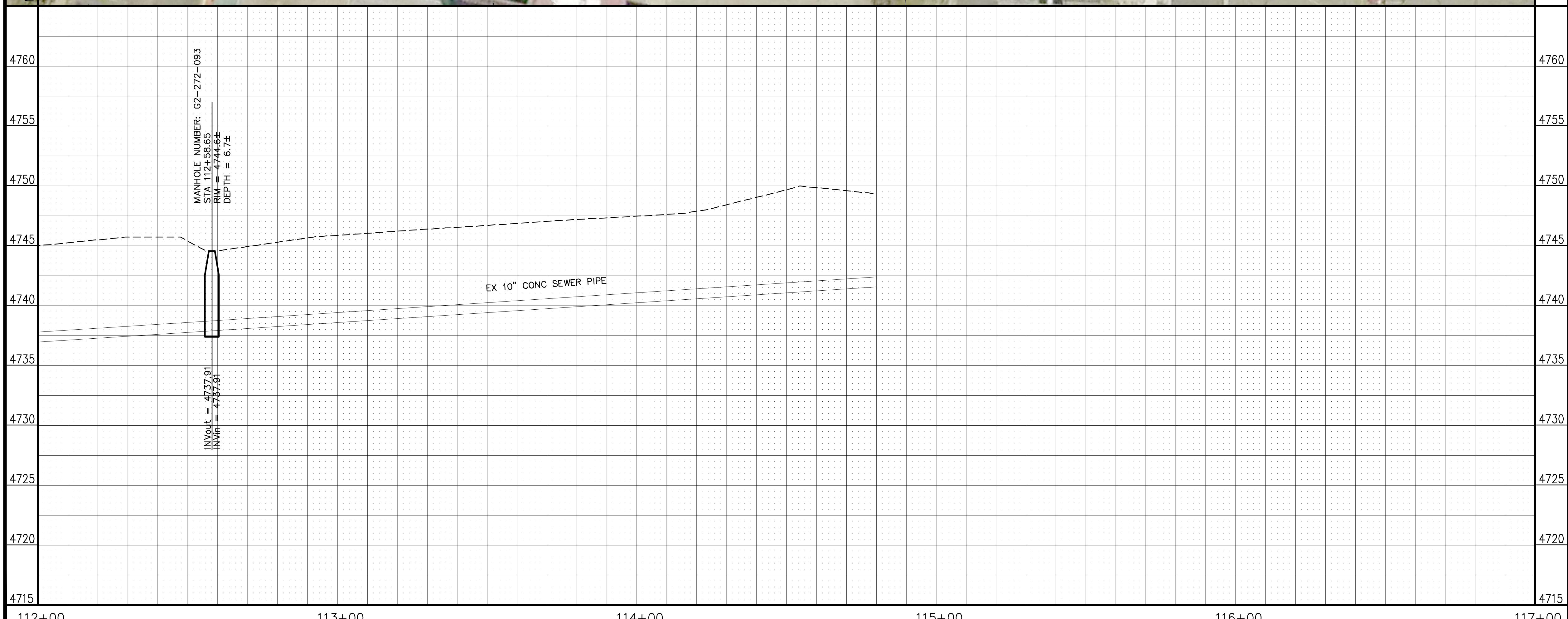
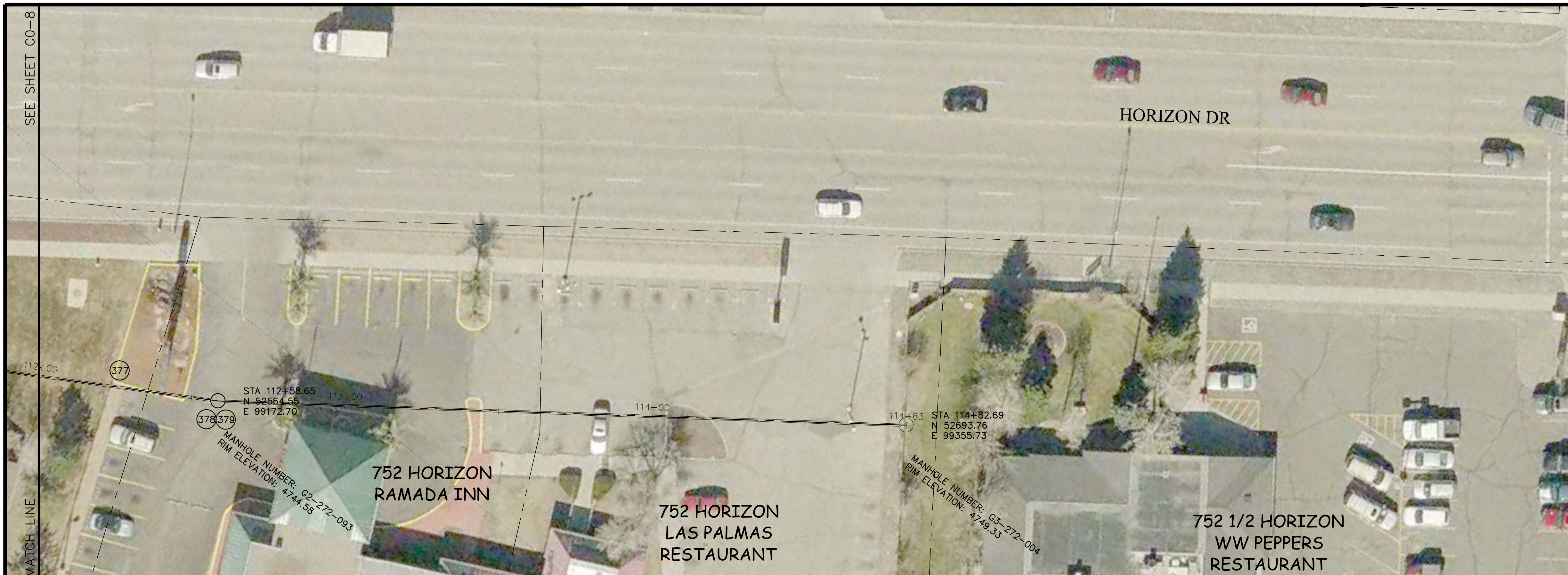


PUBLIC WORKS AND PLANNING ENGINEERING DIVISION

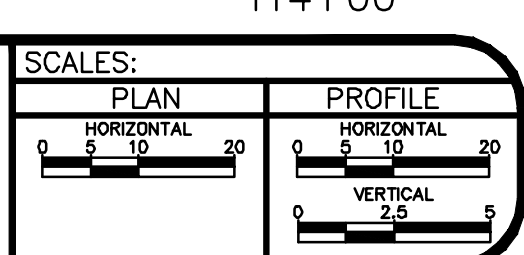
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