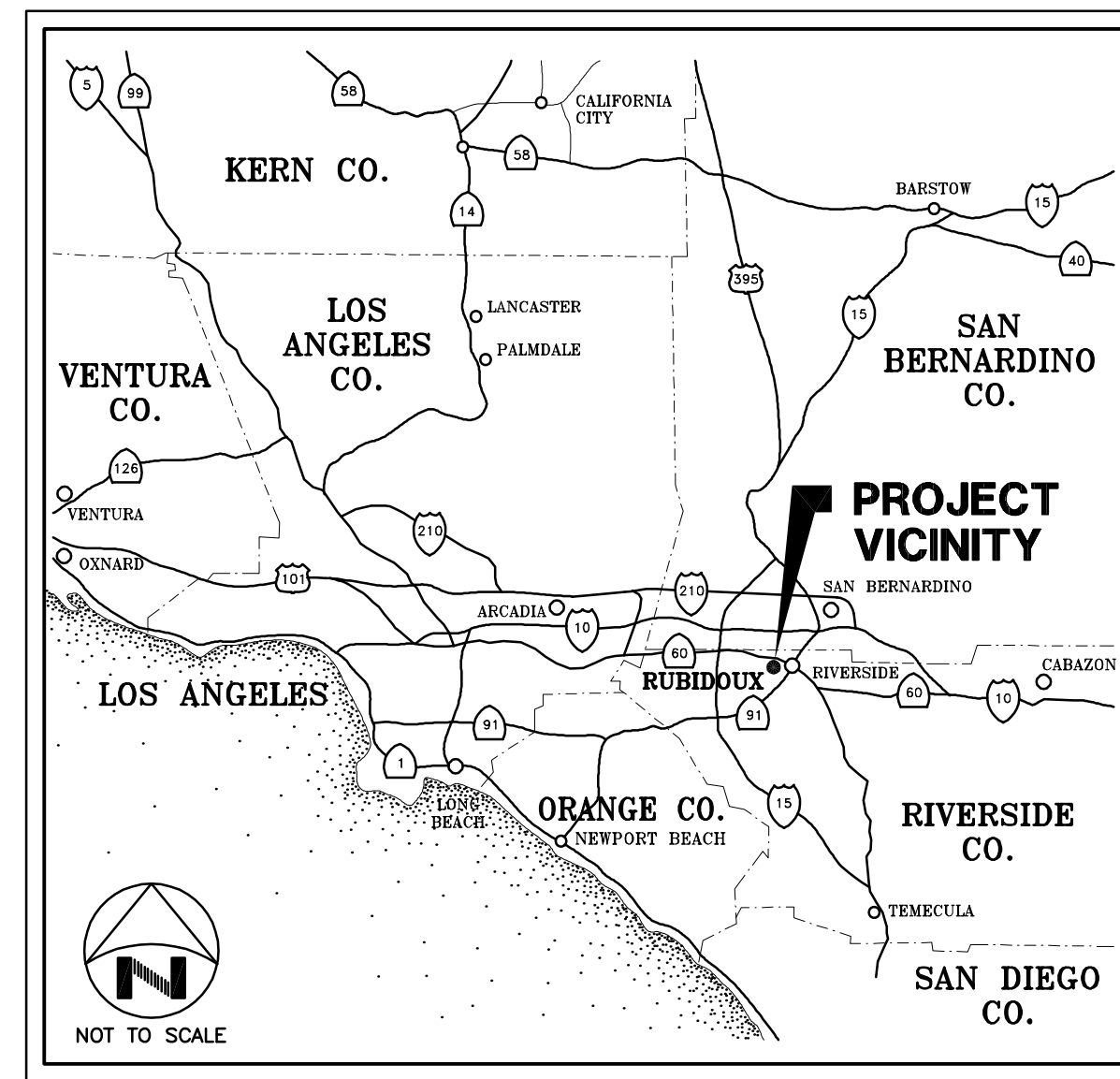


RUBIDOUX COMMUNITY SERVICES DISTRICT

MARKET STREET AND 24TH STREET PIPELINE RELOCATION



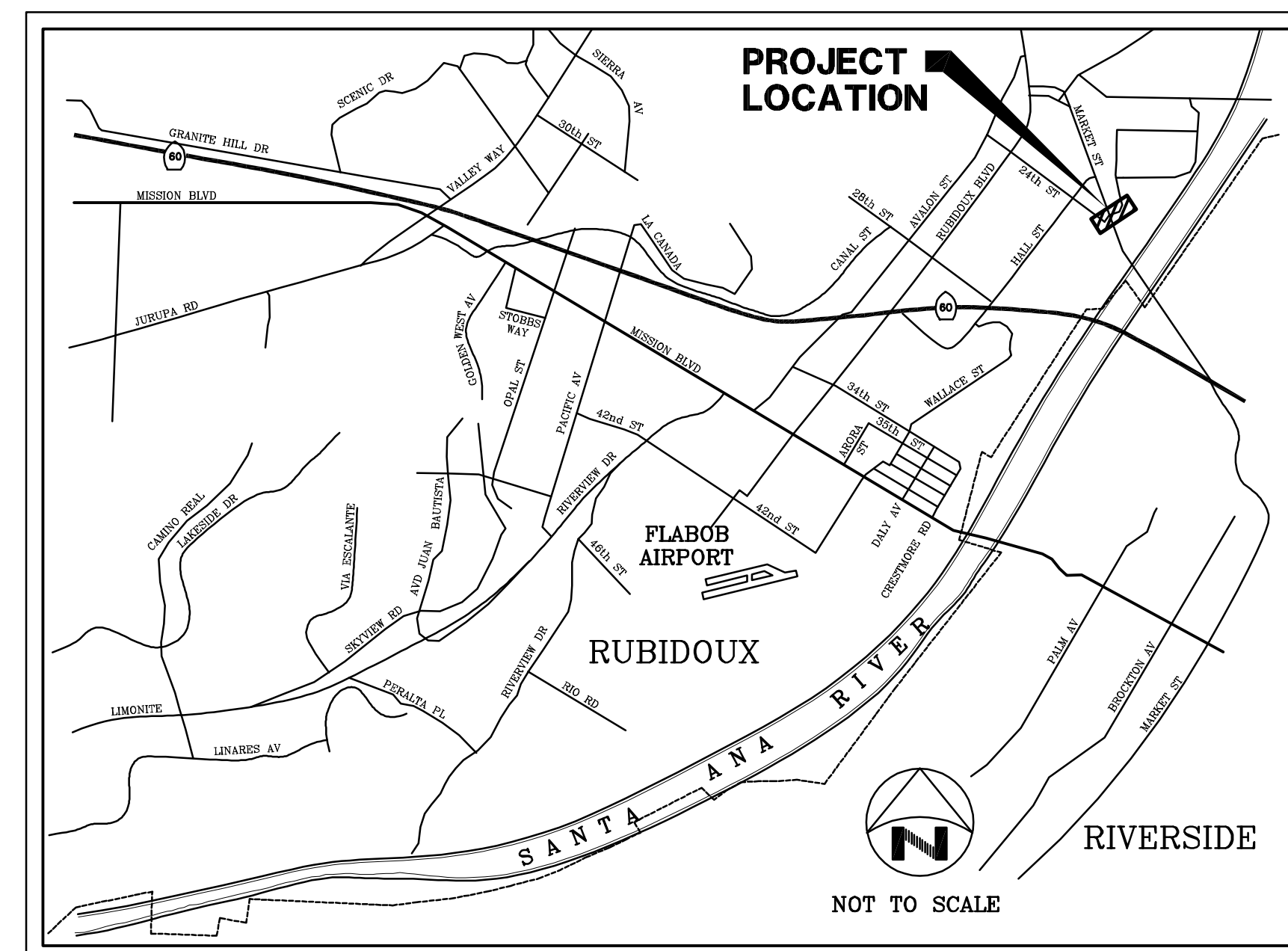
VICINITY MAP

DRAWING INDEX

SHEET No.	DESCRIPTION
1	TITLE SHEET, LOCATION AND VICINITY MAPS, AND DRAWING INDEX
2	CONSTRUCTION NOTES
3	PLAN AND PROFILE - STA.10+05.0± TO STA.12+06.0±

LEGEND

SYMBOL	DESCRIPTION
	EXISTING EDGE OF PAVEMENT
	EXISTING WATERLINE
	EXISTING ELECTRICAL FACILITY
	EXISTING OVERHEAD ELECTRICAL FACILITY
	EXISTING GAS FACILITY
	EXISTING SEWER FACILITY
	EXISTING SEWER FORCE MAIN FACILITY
	EXISTING STORM DRAIN FACILITY
	EXISTING TELEPHONE FACILITY
	EXISTING FIBER OPTIC FACILITY
	EXISTING TELEPHONE MANHOLE
	EXISTING POWER POLE
	EXISTING RIGHT-OF-WAY
	PROPOSED PIPELINE
	UTILITY INTERFERENCE FLAG. APPROXIMATE LOCATION OF INTERFERENCE WITH TYPE OF UTILITY INDICATED BY ABBREVIATION: CATV- CABLE TV, E- ELECTRIC, G- GAS, S- SEWER, SD- STORM DRAIN, T- TELEPHONE, TR- TRAFFIC, AND W- WATER.
	DIP



LOCATION MAP

DWG. NO.: 587-19.62_31 FILE NO.: 587-19.62_UPDATE BY: TMM PROJ. ENG.: SS PLOT DATE: 03/16/23 PLOT TIME: 7:20AM PLOT SCALE: 1"=1'



VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

RUBIDOUX COMMUNITY SERVICES DISTRICT
APPROVED BY: TED BECKWITH
DIRECTOR OF ENGINEERING
DATE: _____

SYM	REVISIONS	DATE	BY



KRIEGER & STEWART
Engineering Consultants
3602 University Avenue • Riverside, CA 92501
www.kriegerandstewart.com • 951-684-6900
APPROVED BY: [Signature]
REGISTERED ENGINEER No. 65367 DATE 03/16/23

SCALE	AS SHOWN
FIELD BOOK	N/A
DESIGN	SS
DRAWN	SPK
CHECKED	SS

RUBIDOUX COMMUNITY SERVICES DISTRICT
MARKET STREET AND 24TH STREET
PIPELINE RELOCATION
**TITLE SHEET, LOCATION AND VICINITY
MAPS, AND DRAWING INDEX**

SHEET
1
OF 3 SHEETS
R.C.S.D. PLAN No.

CONSTRUCTION NOTES

1. PUBLIC STREETS (CITY OF JURUPA VALLEY)

CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF JURUPA VALLEY FOR CONSTRUCTION AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF SAID PERMIT. CONTRACTOR SHALL MAINTAIN AT LEAST ONE COPY OF SAID PERMIT ON THE JOBSITE AT ALL TIMES. DISTRICT WILL NOT ACCEPT THE CONTRACT WORK UNTIL CONTRACTOR HAS SUBMITTED A WRITTEN STATEMENT OF COMPLIANCE ISSUED BY THE CITY OF JURUPA VALLEY ADVISING THAT THE CONTRACTOR HAS COMPLIED WITH ALL CITY REQUIREMENTS AND THAT THE COMPLETED WORK IS ACCEPTABLE.

2. NOTIFICATIONS

AT LEAST FIVE WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL NOTIFY THE CITY OF JURUPA VALLEY OF THE IMPENDING WORK. CONTRACTOR SHALL NOTIFY ALL RESIDENTS AND COMMERCIAL ESTABLISHMENTS IN THE VICINITY OF THE WORK OF IMPENDING WORK AT LEAST SEVEN (7) DAYS PRIOR TO BEGINNING CONSTRUCTION. SAID NOTICES SHALL CONTAIN THE GENERAL DESCRIPTION OF THE WORK, DATES WORK WILL BE PERFORMED, AND NAMES OF STREETS WHERE TRAVEL AND PARKING WILL BE RESTRICTED. IF DISTRICT OR CITY RECEIVE COMPLAINTS FROM INDIVIDUALS AFFECTED BY PROJECT, CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CORRECT SAME AS DIRECTED BY THE DISTRICT. IF CONTRACTOR RECEIVES COMPLAINTS DIRECTLY, CONTRACTOR SHALL REPORT SAME IMMEDIATELY TO THE DISTRICT. THEREAFTER, CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CORRECT SAME AS DIRECTED BY DISTRICT.

3. UTILITIES

ALL LOCATIONS OF EXISTING UTILITIES ARE BASED ON THE RECORD DRAWINGS FOR EXISTING 16" WATERLINE. CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITIES AND EXISTING PUBLIC AND PRIVATE IMPROVEMENTS.

4. EXISTING WATERLINE

EXISTING WATERLINE SHALL REMAIN IN SERVICE DURING CONSTRUCTION. THEREFORE, CONTRACTOR SHALL PROTECT SAID FACILITIES IN PLACE BY ANY METHOD CONTRACTOR DEEMS NECESSARY AND AS APPROVED BY DISTRICT.

5. PIPELINE MATERIALS

PIPELINE MATERIALS SHOULD BE CLASS 250 DUCTILE IRON PIPE AND FITTINGS. ALL PIPE SHALL BE CEMENT MORTAR LINED, DOUBLE THICKNESS, AND BITUMASTIC COATING SHALL NOT BE APPLIED OVER THE CEMENT LINING.

6. EXCAVATION, BEDDING, AND BACKFILL

CONTRACTOR IS ADVISED THAT ROCK OF AN ACCEPTABLE TRENCH BACKFILL MATERIAL MAY BE ENCOUNTERED DURING TRENCHING OPERATIONS. WHERE SUCH MATERIALS ARE ENCOUNTERED, CONTRACTOR SHALL FURNISH AND INSTALL SUITABLE BEDDING MATERIAL AT NO ADDITIONAL COST TO THE DISTRICT. PIPE ZONE MATERIAL SHALL BE COMMERCIAL IMPORTED MATERIAL AND BACKFILL MATERIAL SHALL BE SELECT NATIVE MATERIAL. ALL ROCK OF UNACCEPTABLE TRENCH BACKFILL MATERIAL SHALL BE HAULED TO AND DISCARDED AT A LEGAL DISPOSAL SITE.

7. TRAFFIC CONTROL

- A. CONTRACTOR SHALL PREPARE TRAFFIC CONTROL DRAWINGS AND OBTAIN APPROVAL OF SAME FROM CITY OF JURUPA VALLEY. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH APPROVED CONTROL DRAWINGS AND MAY BE MODIFIED BY DISTRICT OR CITY AS CONDITIONS WARRANT. AS A MINIMUM, ALL CONSTRUCTION SIGNING, LIGHTING, AND BARRICADES SHALL COMPLY WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
- B. WORK HOURS. ALL WORK SHALL BE PERFORMED BETWEEN THE HOURS OF 7:00 AM AND 5:00 PM, SUBJECT TO RESTRICTIONS STIPULATED IN THE ENCROACHMENT PERMIT FOR CROSSING MARKET STREET.

8. RESTORATION REQUIREMENTS

CONTRACTOR SHALL PROTECT IN PLACE OR REMOVE AND REPLACE ALL EXISTING UTILITIES AND PUBLIC AND PRIVATE IMPROVEMENTS. CURB, GUTTER, AND SIDEWALK SHALL BE REPLACED IN COMPLETE PANELS BETWEEN CONSTRUCTION JOINTS. CONTRACTOR SHALL, AS A MINIMUM, HAVE ACCOMPLISHED BY THE END OF EACH WORKDAY, THE FOLLOWING:

- A. REMOVE ALL DEBRIS, CONSTRUCTION MATERIALS, AND EQUIPMENT FROM PUBLIC STREETS.
- B. FILL ALL EXCAVATION WITH COMPACTED BACKFILL AND PLACE 2" MINIMUM TEMPORARY ASPHALT CONCRETE PAVEMENT IN ALL AREAS WHERE PAVING WAS REMOVED. SAID PAVEMENT SHALL BE COMPACTED, ROLLED SMOOTH WITH ROLLER AND FLUSH WITH ADJACENT PAVEMENT SUFFICIENT TO SUPPORT TRAFFIC.
- C. CLEAN ALL STREETS, DRIVEWAYS, SIDEWALKS, GUTTERS AND ALL OTHER WORK AREAS.
- D. PLACE TEMPORARY TRAFFIC STRIPING.
- E. REMOVE TRAFFIC CONTROL AND OPEN STREETS FOR TRAFFIC.

CONTRACTOR SHALL INSPECT ENTIRE JOBSITE AT LEAST ONCE EACH DAY, INCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS AND CORRECT ANY TRAFFIC, PAVEMENT, OR BACKFILL DEFICIENCIES AND SHALL MAINTAIN STREETS IN GOOD REPAIR.

9. PERMANENT ASPHALT CONCRETE PAVEMENT

PERMANENT ASPHALT CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF CITY OF JURUPA VALLEY ENCROACHMENT PERMIT.

A. PREPARATION

CONTRACTOR SHALL SAWCUT PAVEMENT EDGES TO STRAIGHT, VERTICAL EDGES, EITHER PARALLEL OR PERPENDICULAR TO THE TRENCH. CONTRACTOR SHALL EXCAVATE UNDERLYING 12" OF SUBGRADE AND COMPACT TO 95% RELATIVE COMPACTION MINIMUM.

B. THICKNESS

PERMANENT ASPHALT CONCRETE PAVEMENT SHALL CONSIST OF EITHER 6" ASPHALT CONCRETE OVER 6" CLASS II AGGREGATE BASE OR COMPLY WITH CITY OF JURUPA VALLEY ENCROACHMENT PERMIT.

C. TRAFFIC SIGNING AND STRIPING

CONTRACTOR SHALL PROTECT ALL EXISTING TRAFFIC SIGNAL SIGNS. ALL TRAFFIC STRIPING AND PAVEMENT MARKINGS DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED. WITHIN THREE (3) WORKING DAYS OF PLACEMENT OF FINAL ASPHALT CONCRETE PAVEMENT, ALL TRAFFIC STRIPING AND PAVEMENT MARKINGS SHALL BE PERMANENTLY RESTORED OR REPLACED IN ACCORDANCE WITH CITY OF JURUPA VALLEY ENCROACHMENT PERMIT.


D. TRAFFIC LOOPS

ANY TRAFFIC LOOPS, DETECTORS, OR CONDUITS DAMAGED OR DESTROYED SHALL BE REPLACED BY CONTRACTOR WITHIN SEVENTY TWO (72) HOURS. TEMPORARY REPAIR OF TRAFFIC LOOPS AND DETECTORS IS ACCEPTABLE UNTIL PLACEMENT OF FINAL ASPHALT CONCRETE PAVEMENT. ALL WORK SHALL BE IN ACCORDANCE WITH CITY OF JURUPA VALLEY PERMIT AND STANDARDS.

8. DISINFECTION AND TESTING PROCEDURE

PIPELINE, FITTINGS, AND APPURTENANCES SHALL BE TESTED AT 225 PSI MAXIMUM. PIPELINE SHALL BE FILLED FROM EXISTING FIRE HYDRANT THROUGH 2" TOP OUTLET AT WESTERLY END. CONTRACTOR SHALL OBTAIN, AND PAY FOR, CONSTRUCTION METER FROM THE DISTRICT. CONTRACTOR SHALL PROVIDE ALL NECESSARY MEANS TO CONVEY WATER TO SAID OUTLET. CONTRACTOR SHALL DISINFECT THE PIPELINE BY INTRODUCING CHLORINE THROUGH SAID OUTLET. AFTER CHLORINATED WATER HAS BEEN MAINTAINED IN THE PIPELINE FOR A PERIOD OF 24 HOURS, CONTRACTOR SHALL PERFORM HYDROSTATIC AND LEAKAGE TESTS. LEAKAGE TEST PRESSURE SHALL BE 150 PSI. AFTER PIPELINE HAS PASSED HYDROSTATIC AND LEAKAGE TESTS, CHLORINE RESIDUAL SAMPLES SHALL BE TAKEN AT 2" TOP OUTLETS AT BOTH ENDS. CHLORINE RESIDUAL SAMPLES SHALL BE 25 PPM MINIMUM. AFTER SAID CHLORINE RESIDUAL REQUIREMENTS HAVE BEEN SATISFIED, CONTRACTOR SHALL FLUSH THE PIPELINE. TESTING WATER SHALL BE DECHLORINATED TO 0.1 PPM BEFORE BEING DISCHARGED TO EXISTING STORM DRAIN. CONTRACTOR SHALL PROTECT ALL PROPERTIES FROM FLOODING AND OTHER DAMAGE DURING FLUSHING OPERATIONS. THEREAFTER, CONTRACTOR SHALL TAKE BACTERIOLOGICAL SAMPLES IN ACCORDANCE WITH AWWA C651 STANDARD, LATEST EDITION.

DWG. NO.: 587-19.62-32 FILE NO.: 587-19.62 UPDATE BY: TMM PROJ. ENG.: SS PLOT DATE: 03/16/23 PLOT TIME: 7:00AM PLOT SCALE: 1"=1

VERIFY SCALES			
BAR IS ONE INCH ON ORIGINAL DRAWING			
			
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APPROVED BY: 
REGISTERED ENGINEER No. 65367 DATE 03/16/23

SCALE	AS SHOWN
FIELD BOOK	N/A
DESIGN	SS
DRAWN	SPK
CHECKED	SS

RUBIDOUX COMMUNITY SERVICES DISTRICT

MARKET STREET AND 24TH STREET
PIPELINE RELOCATION

CONSTRUCTION NOTES

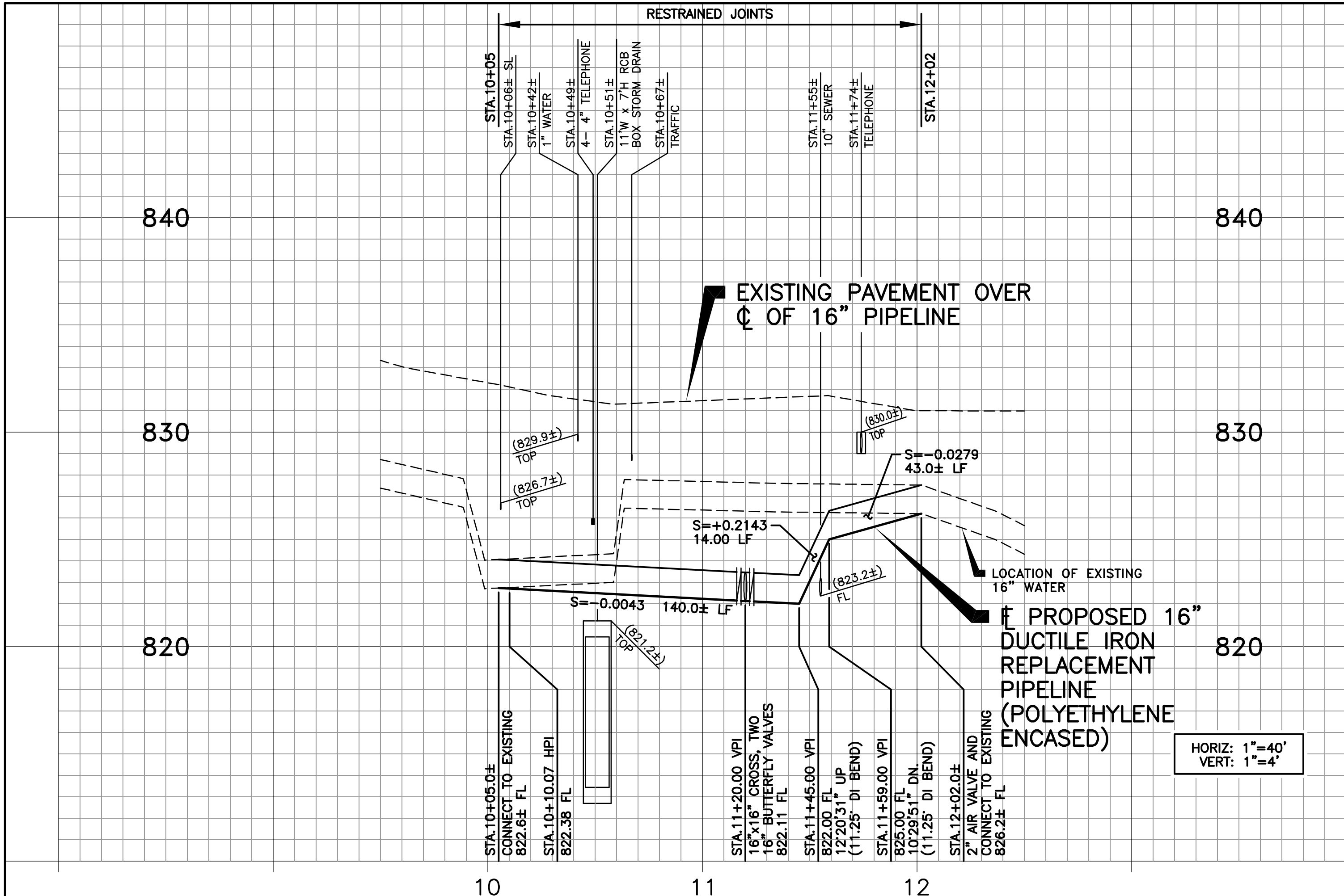
SHEET

2

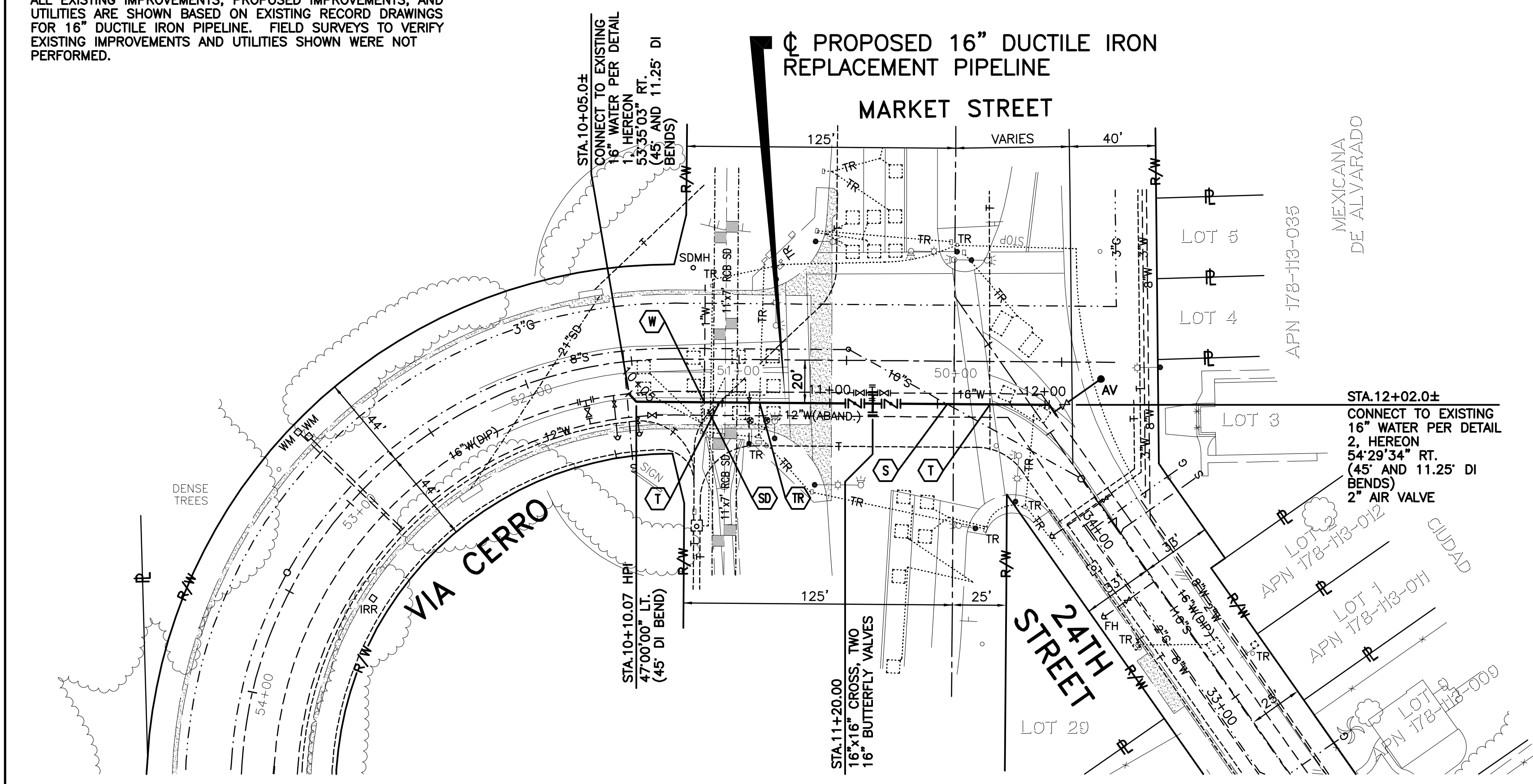
OF 3 SHEETS

R.C.S.D. PLAN No.

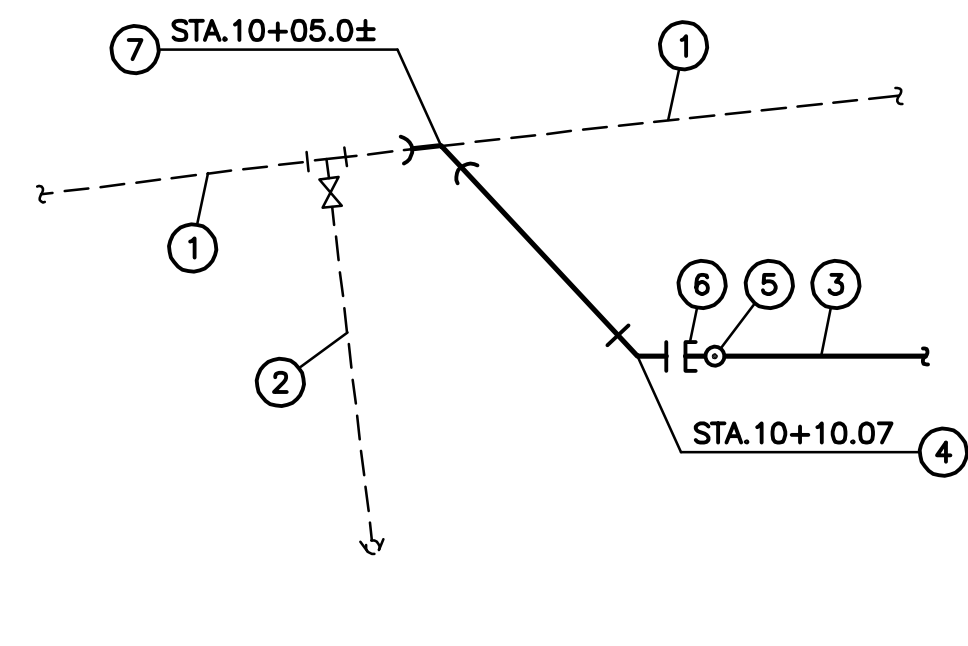
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NOTE:
ALL EXISTING IMPROVEMENTS, PROPOSED IMPROVEMENTS, AND UTILITIES ARE SHOWN BASED ON EXISTING RECORD DRAWINGS FOR 16" DUCTILE IRON PIPELINE. FIELD SURVEYS TO VERIFY EXISTING IMPROVEMENTS AND UTILITIES SHOWN WERE NOT PERFORMED.

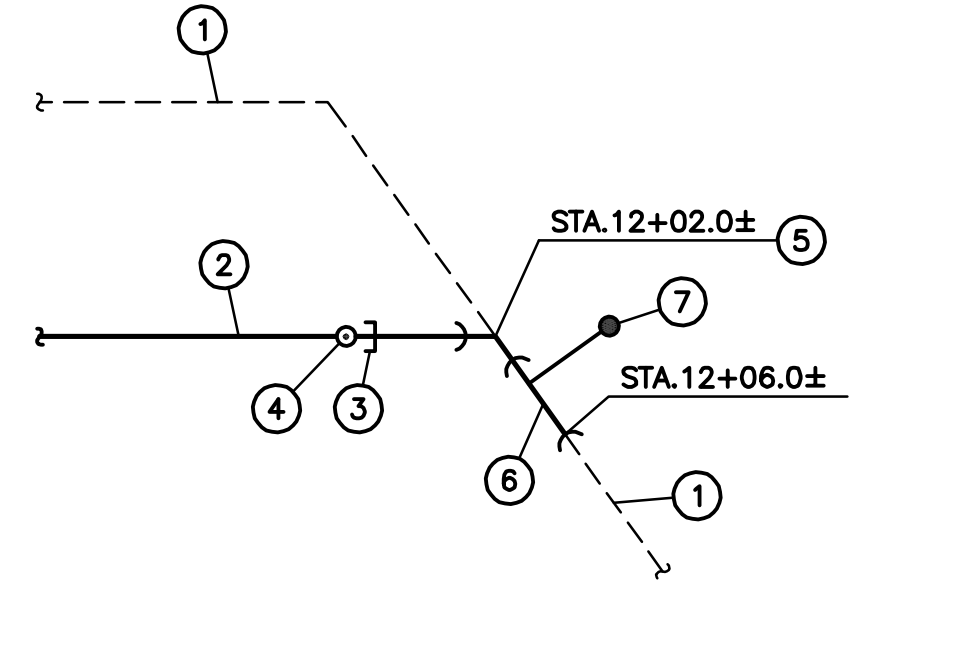


NOTE:
ALL EXISTING IMPROVEMENTS, PROPOSED IMPROVEMENTS, AND UTILITIES ARE SHOWN BASED ON EXISTING RECORD DRAWINGS FOR 16" DUCTILE IRON PIPELINE. FIELD SURVEYS TO VERIFY EXISTING IMPROVEMENTS AND UTILITIES SHOWN WERE NOT PERFORMED.



- LEGEND:**
- ① EXISTING 16" DUCTILE IRON PIPELINE.
 - ② EXISTING 6" FIRE HYDRANT.
 - ③ 16" DUCTILE IRON RELOCATION PIPELINE.
 - ④ 12"x45" DUCTILE IRON BEND.
 - ⑤ TEMPORARY 2" TOP OUTLET FOR TESTING.
 - ⑥ TEMPORARY 16" PLUG OR CAP FOR TESTING.
 - ⑦ 16"x45" AND 16"x11.25" BENDS BOLTED TOGETHER TO ACHIEVE REQUIRED CONNECTION ANGLE.
- NOTES:**
1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXCAVATE AND EXPOSE EXISTING 16" DUCTILE IRON PIPELINE AT CONNECTION POINT TO DETERMINE ITS EXACT LOCATION (HORIZONTAL AND VERTICAL), DIAMETER, AND MATERIAL.
 2. CONTRACTOR SHALL BEGIN CONSTRUCTION WITH TEMPORARY 16" MJ PLUG OR CAP AND 2" TOP OUTLET FOR TESTING.
 3. AFTER 16" PIPELINE HAS BEEN TESTED AND DISINFECTED BY CONTRACTOR AND ACCEPTED BY DISTRICT, THE DISTRICT WILL CLOSE EXISTING VALVE TO ISOLATE THE CONNECTION LOCATION. THEREAFTER, CONTRACTOR SHALL CUT AND REMOVE PORTION OF EXISTING 16" PIPELINE AS REQUIRED FOR CONNECTION WORK, DEWATER EXISTING AND PROPOSED PIPELINES SO THAT NO OPEN END OF THE EXISTING OR PROPOSED PIPELINE BECOME SUBMERGED, PLUG 2" TOP OUTLET, AND INSTALL 16" CONNECTION TO EXISTING SYSTEM WITH RESTRAINED JOINTS, INCLUDING ALL FITTINGS AND PIPING.
 4. CONNECTION PIPING AND FITTINGS SHALL BE KEPT CLEAN DURING INSTALLATION AND SHALL BE SWABBED WITH CHLORINE SOLUTION BEFORE INSTALLATION.
 5. CONTRACTOR SHALL FURNISH ALL SURVEYING AND MEASUREMENTS REQUIRED TO DETERMINE EXACT LOCATION, DIAMETER, AND ALIGNMENT OF EXISTING 16" PIPELINE AT CONNECTED POINTS.

CONNECTION DETAIL 1 AT STA.10+05.0±
N.T.S.



- LEGEND:**
- ① EXISTING 16" DUCTILE IRON PIPELINE.
 - ② 16" DUCTILE IRON RELOCATION PIPELINE.
 - ③ TEMPORARY 16" PLUG OR CAP FOR TESTING.
 - ④ TEMPORARY 2" TOP OUTLET FOR TESTING.
 - ⑤ 16"x45" AND 16"x11.25" BENDS BOLTED TOGETHER TO ACHIEVE REQUIRED CONNECTION ANGLE.
 - ⑥ 16" DUCTILE IRON SPOOL.
 - ⑦ 2" AIR VALVE.
- NOTES:**
1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXCAVATE AND EXPOSE EXISTING 16" DUCTILE IRON PIPELINE AT CONNECTION POINT TO DETERMINE ITS EXACT LOCATION (HORIZONTAL AND VERTICAL), DIAMETER, AND MATERIAL.
 2. CONTRACTOR SHALL END CONSTRUCTION WITH TEMPORARY 16" MJ PLUG OR CAP AND 2" TOP OUTLET FOR TESTING.
 3. AFTER 16" PIPELINE HAS BEEN TESTED AND DISINFECTED BY CONTRACTOR AND ACCEPTED BY DISTRICT, THE DISTRICT WILL CLOSE EXISTING VALVE TO ISOLATE THE CONNECTION LOCATION. THEREAFTER, CONTRACTOR SHALL CUT AND REMOVE PORTION OF EXISTING 16" PIPELINE AS REQUIRED FOR CONNECTION WORK, DEWATER EXISTING AND PROPOSED PIPELINES SO THAT NO OPEN END OF THE EXISTING OR PROPOSED PIPELINE BECOME SUBMERGED, PLUG 2" TOP OUTLET, AND INSTALL 16" CONNECTION TO EXISTING SYSTEM WITH RESTRAINED JOINTS, INCLUDING AIR VALVE AND ALL FITTINGS AND PIPING.
 4. CONNECTION PIPING AND FITTINGS SHALL BE KEPT CLEAN DURING INSTALLATION AND SHALL BE SWABBED WITH CHLORINE SOLUTION BEFORE INSTALLATION.
 5. CONTRACTOR SHALL FURNISH ALL SURVEYING AND MEASUREMENTS REQUIRED TO DETERMINE EXACT LOCATION, DIAMETER, AND ALIGNMENT OF EXISTING 16" PIPELINE AT CONNECTED POINTS.

CONNECTION DETAIL 2 AT STA.12+06.0±
N.T.S.

VERIFY SCALES

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APPROVED BY: [Signature]
REGISTERED ENGINEER No. 65367 DATE 03/16/23

SCALE 1"=40'

FIELD BOOK N/A

DESIGN SS

DRAWN SPK

CHECKED SS

RUBIDOUX COMMUNITY SERVICES DISTRICT

MARKET STREET AND 24TH STREET PIPELINE RELOCATION

PLAN AND PROFILE
STA.10+05.0± TO STA.12+06.0±

SHEET **3**
OF 3 SHEETS

R.C.S.D. PLAN NO. 587-19-62