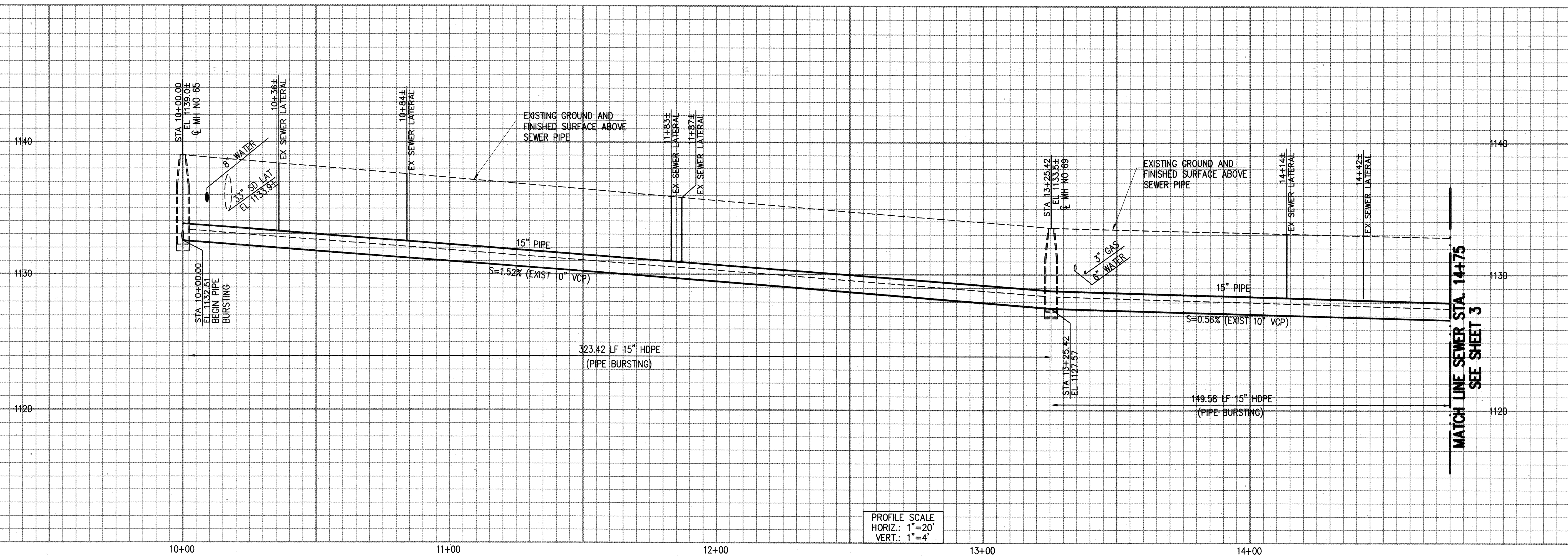


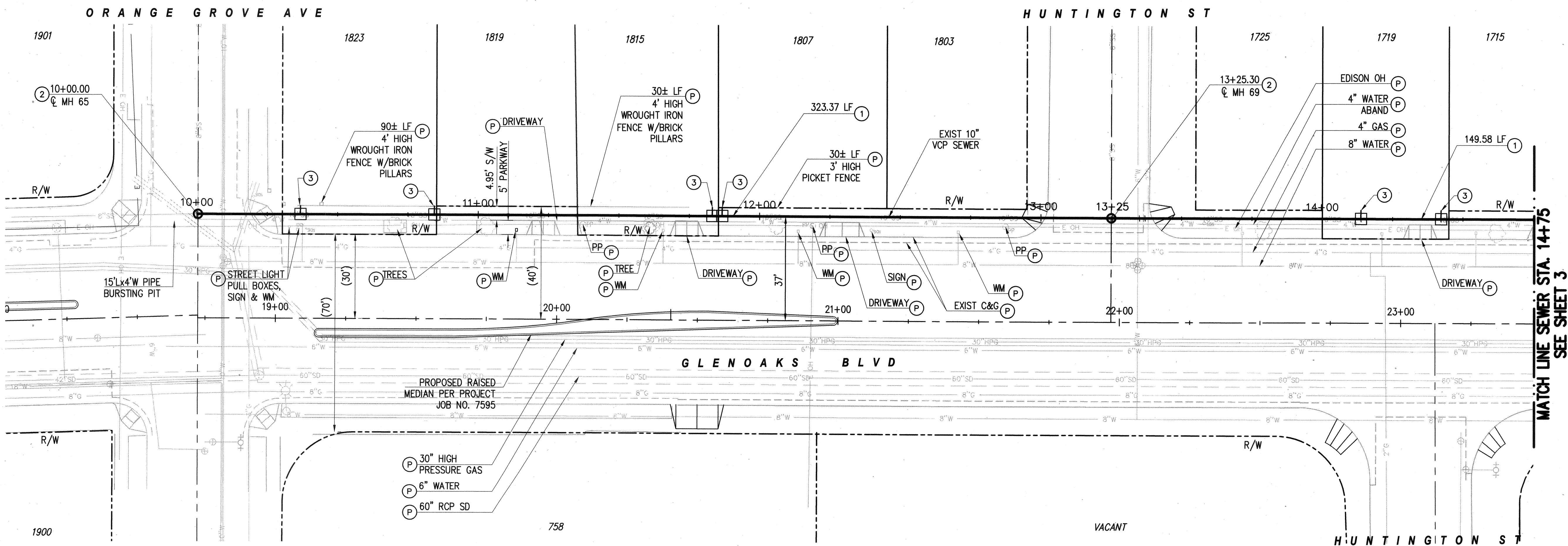




Directory Path: U:\107289 - 5F Glenoaks & HSP-7 900-PS&E\901-Plans\p-SSWR-01.dwg, Date: 12/20/18

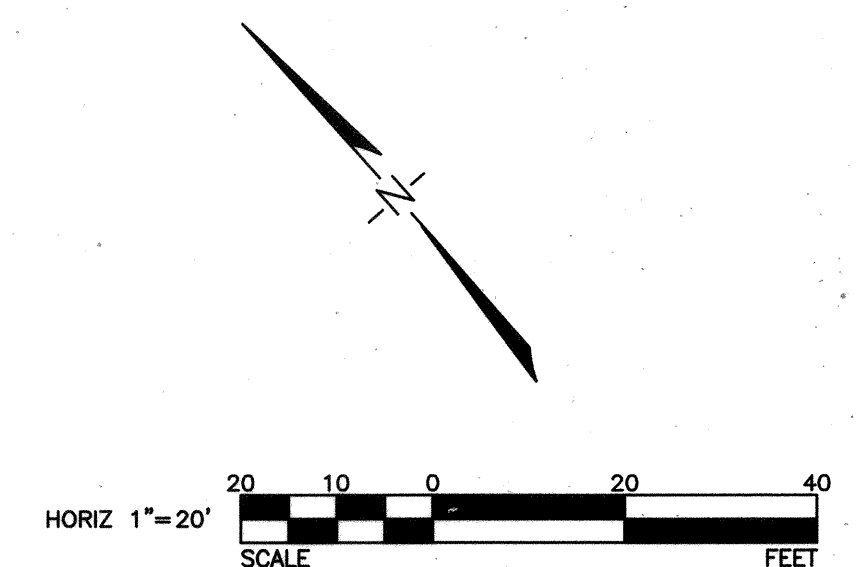


- SEWER NOTES:**
- TEES OR WYES MAY BE USED FOR JOINING HOUSE CONNECTION SEWERS TO THE MAINLINE SEWER. ALL TEES AND WYES SHALL BE ROTATED UPWARD FROM THE HORIZONTAL TO AN ANGLE OF 45 DEGREES, EXCEPT THAT A TEE OR WYE DESIGNATED ON THE PLAN AS A FLAT WYE SHALL BE ROTATED UPWARD 22 1/2 DEGREES.
  - NO BENCH MARK HAS BEEN PROVIDED ON THIS PLAN. THE CONTRACTOR SHALL CONSTRUCT THE SEWER ON A STRAIGHT GRADE BETWEEN EXISTING UNDAMAGED MANHOLES AFTER DAMAGED PIPE HAS BEEN REMOVED, AS SHOWN ON THIS PLAN AND PER US ARMY CORP, RESTORATION SANITARY SEWER SYSTEM PLAN NO SP-359 (DISTRICT FILE NO. 378/178) AND LA COUNTY FLOOD CONTROL DISTRICT SEWER PROJECT 256, PLAN NO. 181-256-DI.7.
  - FIELD VERIFY EXISTING WATER AND GAS SERVICE LATERALS AND RECONNECT, AS NECESSARY.
  - PRIOR TO CONSTRUCTION, ALL UTILITY CROSSINGS SHALL BE POTHOLED BY THE CONTRACTOR. CONFLICTS WITH THE PROPOSED SEWER SHALL BE REPORTED TO THE DESIGNER FOR RE-DESIGN, IF NECESSARY.



**SEWER CONSTRUCTION NOTES:**

- PROTECT IN PLACE OR REPLACE IN KIND
- CONSTRUCT 15" HDPE (HIGH-DENSITY POLYETHYLENE) INSTALLATION METHOD PER PROFILE
- MODIFY MANHOLE BASE TO MATCH INVERTS SHOWN. MODIFICATION SHALL CONFORM TO SPPWC STANDARD PLAN 208-2
- RECONNECT EXISTING SEWER LATERAL TO MAINLINE PER MODIFIED SPPWC STANDARD PLAN 222-2. LATERAL LOCATIONS SHOWN WERE OBTAINED FROM CCTV INVESTIGATION. FINAL LOCATION TO BE DETERMINED DURING CONSTRUCTION. PIT REQUIRED TO RECONNECT.
- CONSTRUCT 18" EXTRA STRENGTH VCP INSTALLATION METHOD PER PROFILE
- CONSTRUCT PRECAST CONCRETE MANHOLE PER SPPWC STANDARD PLAN 200-3
- CONSTRUCT 15" EXTRA STRENGTH VCP INSTALLATION METHOD PER PROFILE
- CONSTRUCT 18" HDPE (HIGH-DENSITY POLYETHYLENE) INSTALLATION METHOD PER PROFILE



REVISIONS				REVISIONS			
REV.	DATE	BY	DESCRIPTION	APP'D	REV.	DATE	BY

PLANS PREPARED BY:  
**WILDAN**  
13191 CROSSROADS PARKWAY NORTH  
SUITE 405, INDUSTRY, CA 91746  
(925) 908-6200  
UNDER THE SUPERVISION OF:  
  
RAY A. WELLINGTON  
DESIGNED BY: SM/RS | CHECKED BY: RW

12/8/18  
DATE

NO. 25131  
STATE OF CALIFORNIA  
CIVIL ENGINEER

SUBMITTED BY:  
  
PATSY OROZCO, CE ASSISTANT II  
DATE: 12/24/18

CITY OF  
**SAN FERNANDO**  
HISTORIC & VISIONARY  
PUBLIC WORKS DEPARTMENT

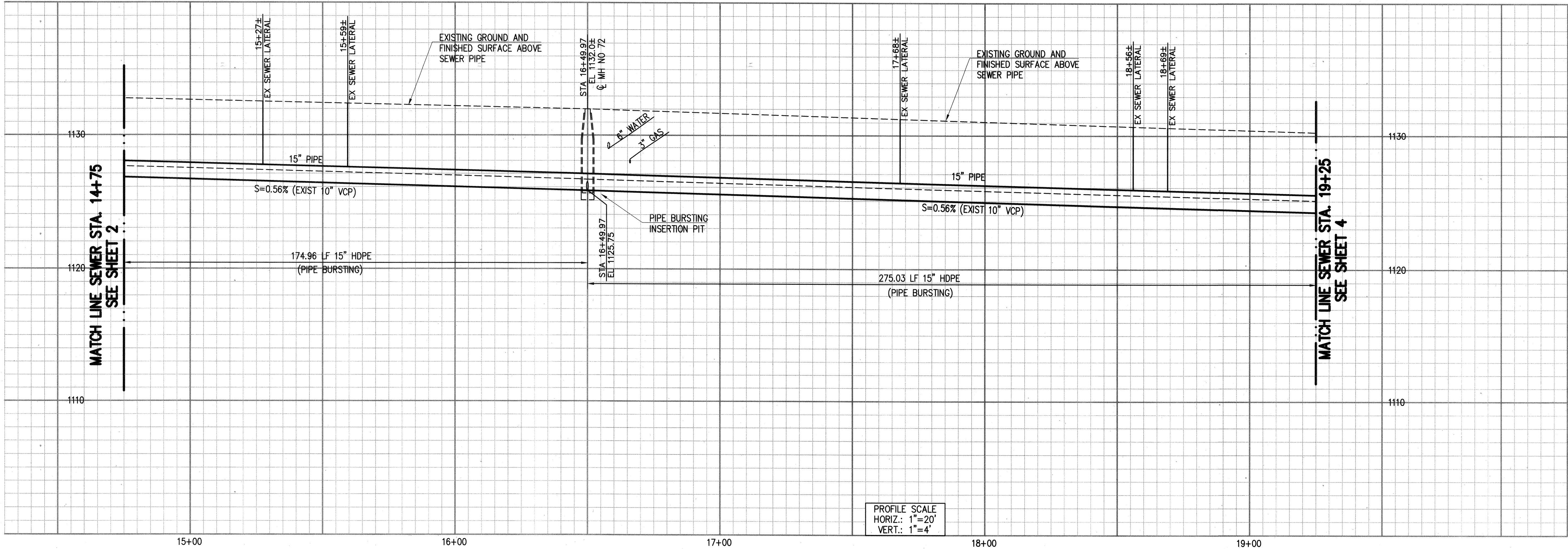
**SEWER AND WATER IMPROVEMENT PLAN**  
**GLENOAKS BOULEVARD**  
ORANGE GROVE AVENUE TO HUNTINGTON STREET

JOB NO. 7608  
PLAN NO. P-730

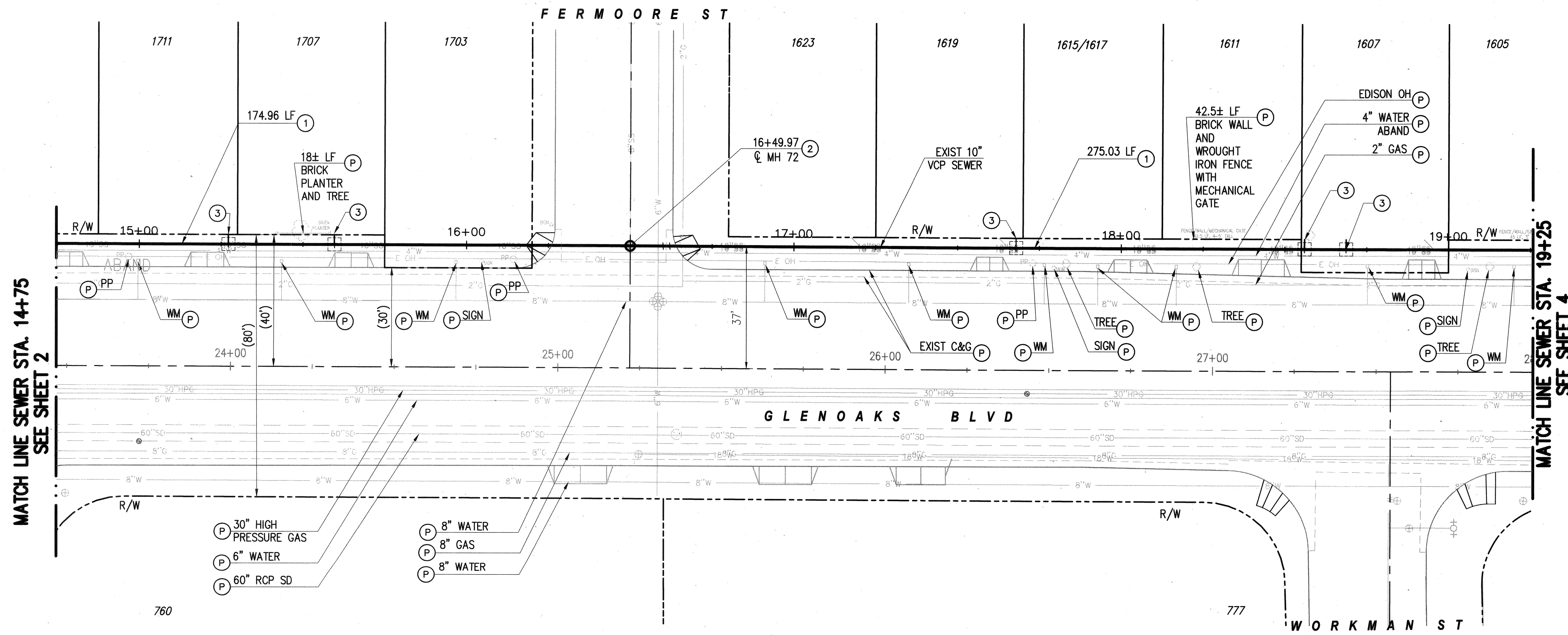
SHEET NO.  
2  
OF  
9




Directory Path: U:\107289 - SF Glenoaks & HSP-7\300-PS&E\901-Plans\p-SWR-02.dwg, Date: 12/20/18



- SEWER NOTES:**
- TEES OR WYES MAY BE USED FOR JOINING HOUSE CONNECTION SEWERS TO THE MAINLINE SEWER. ALL TEES AND WYES SHALL BE ROTATED UPWARD FROM THE HORIZONTAL TO AN ANGLE OF 45 DEGREES, EXCEPT THAT A TEE OR WYE DESIGNATED ON THE PLAN AS A FLAT WYE SHALL BE ROTATED UPWARD 22 1/2 DEGREES.
  - NO BENCH MARK HAS BEEN PROVIDED ON THIS PLAN. THE CONTRACTOR SHALL CONSTRUCT THE SEWER ON A STRAIGHT GRADE BETWEEN EXISTING UNDAUNED MANHOLES AFTER DAMAGED PIPE HAS BEEN REMOVED, AS SHOWN ON THIS PLAN AND PER US ARMY CORP, RESTORATION SANITARY SEWER SYSTEM PLAN NO SP-359 (DISTRICT FILE NO. 378/178) AND LA COUNTY FLOOD CONTROL DISTRICT SEWER PROJECT 256, PLAN NO. 181-256-DI.7.
  - FIELD VERIFY EXISTING WATER AND GAS SERVICE LATERALS AND RECONNECT, AS NECESSARY.
  - PRIOR TO CONSTRUCTION, ALL UTILITY CROSSINGS SHALL BE POTHOLED BY THE CONTRACTOR. CONFLICTS WITH THE PROPOSED SEWER SHALL BE REPORTED TO THE DESIGNER FOR RE-DESIGN, IF NECESSARY.



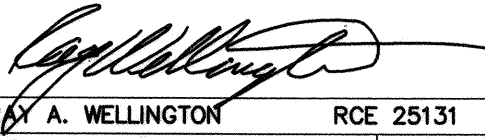
- SEWER CONSTRUCTION NOTES:**
- PROTECT IN PLACE OR REPLACE IN KIND
  - CONSTRUCT 15" HDPE (HIGH-DENSITY POLYETHYLENE) INSTALLATION METHOD PER PROFILE
  - MODIFY MANHOLE BASE TO MATCH INVERTS SHOWN. MODIFICATION SHALL CONFORM TO SPPWC STANDARD PLAN 208-2
  - RECONNECT EXISTING SEWER LATERAL TO MAINLINE PER MODIFIED SPPWC STANDARD PLAN 222-2. LATERAL LOCATIONS SHOWN WERE OBTAINED FROM CCTV INVESTIGATION. FINAL LOCATION TO BE DETERMINED DURING CONSTRUCTION. PIT REQUIRED TO RECONNECT.
  - CONSTRUCT 18" EXTRA STRENGTH VCP INSTALLATION METHOD PER PROFILE
  - CONSTRUCT PRECAST CONCRETE MANHOLE PER SPPWC STANDARD PLAN 200-3
  - CONSTRUCT 15" EXTRA STRENGTH VCP INSTALLATION METHOD PER PROFILE
  - CONSTRUCT 18" HDPE (HIGH-DENSITY POLYETHYLENE) INSTALLATION METHOD PER PROFILE



Know what's below.  
Call before you dig.

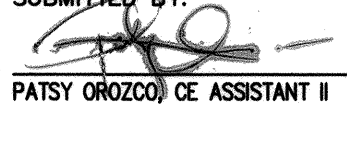
REV.	DATE	BY	DESCRIPTION	APP'D


REV.	DATE	BY	DESCRIPTION	APP'D

PLANS PREPARED BY:  
**WILLDAN**  
13191 CROSSROADS PARKWAY NORTH  
SUITE 405, INDUSTRY, CA 91746  
(962) 908-6200  
UNDER THE SUPERVISION OF:  
  
RAY A. WELLINGTON RCE 25131  
DRAWN BY: SM

12/6/18  
DATE  
DESIGNED BY: SM/RS CHECKED BY: RW

REGISTERED PROFESSIONAL ENGINEER  
RAY A. WELLINGTON  
NO. 25131  
CIVIL  
STATE OF CALIFORNIA

SUBMITTED BY:  
  
PATSY OROZCO, CE ASSISTANT II  
DATE: 12/20/18

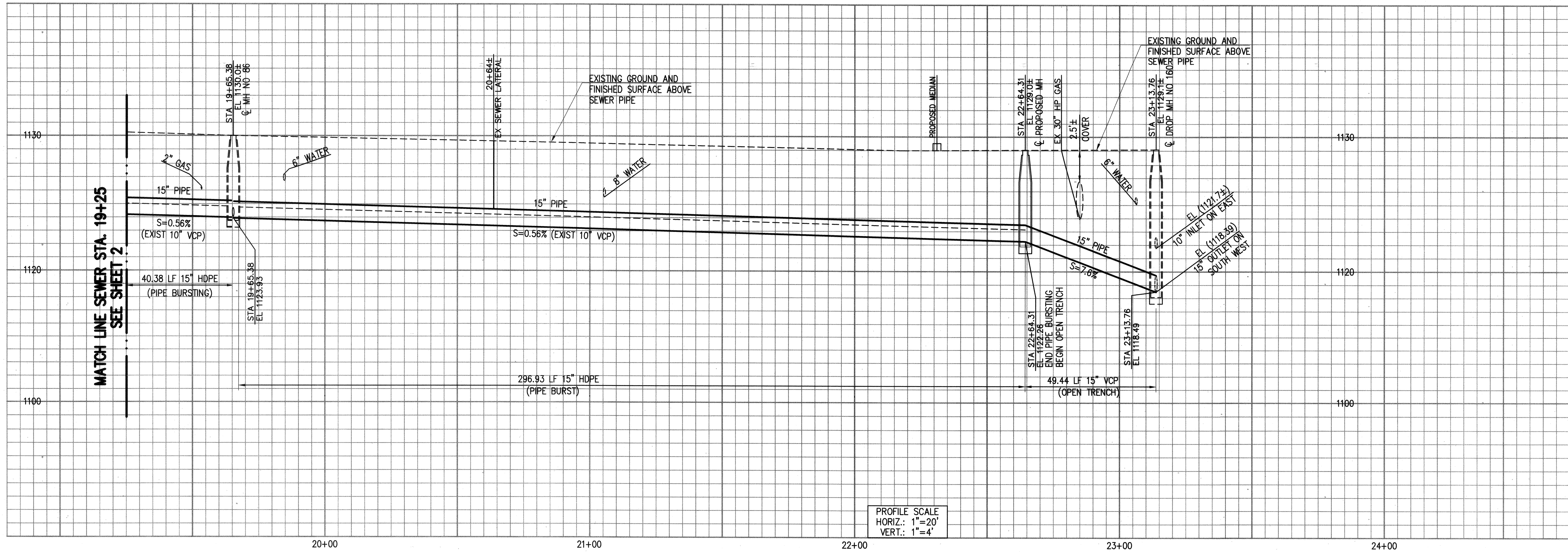
  
CITY OF  
**SAN FERNANDO**  
HISTORIC & VISIONARY  
PUBLIC WORKS DEPARTMENT

**SEWER AND WATER IMPROVEMENT PLAN**  
**GLENOAKS BOULEVARD**  
HUNTINGTON STREET TO WORKMAN STREET

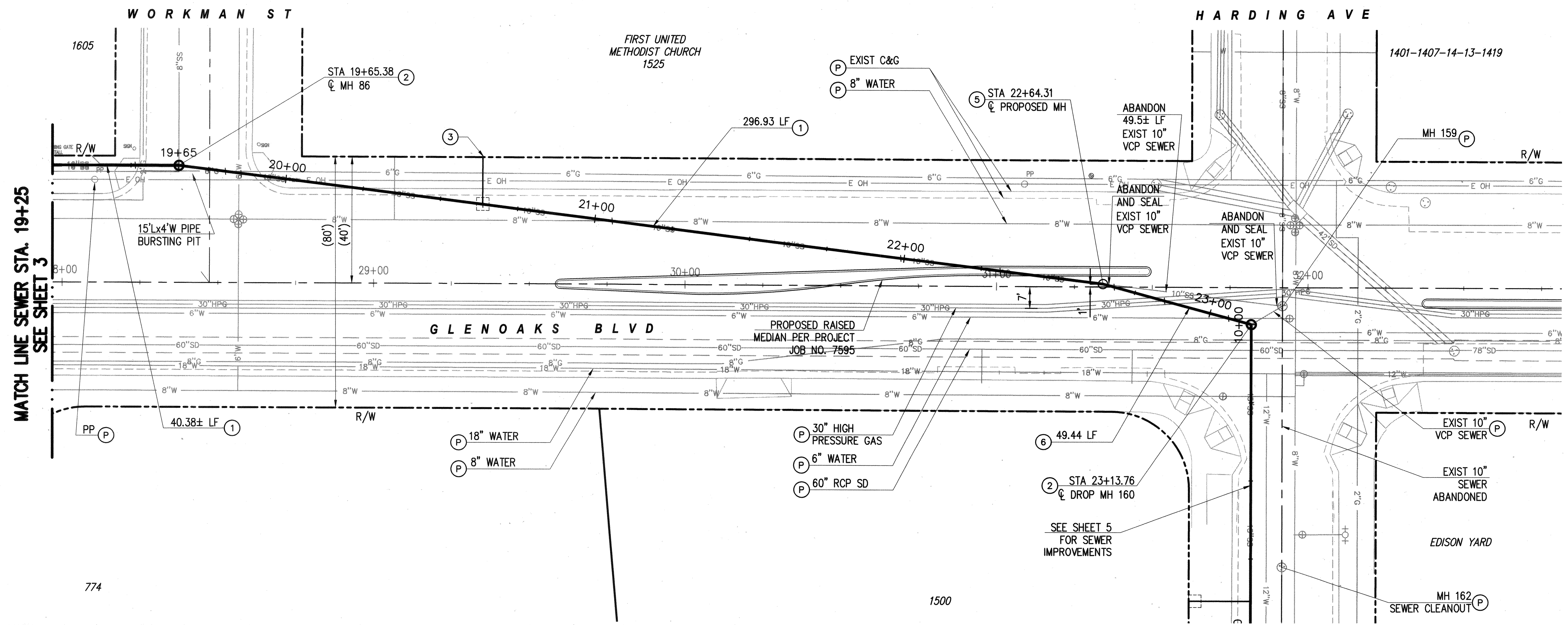
JOB NO. 7608 PLAN NO. P-730

SHEET NO.  
3  
OF  
9



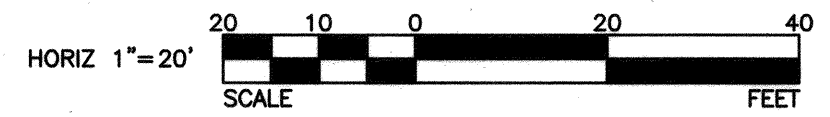


- SEWER NOTES:**
- TEES OR WYES MAY BE USED FOR JOINING HOUSE CONNECTION SEWERS TO THE MAINLINE SEWER. ALL TEES AND WYES SHALL BE ROTATED UPWARD FROM THE HORIZONTAL TO AN ANGLE OF 45 DEGREES, EXCEPT THAT A TEE OR WYE DESIGNATED ON THE PLAN AS A FLAT WYE SHALL BE ROTATED UPWARD 22 1/2 DEGREES.
  - NO BENCH MARK HAS BEEN PROVIDED ON THIS PLAN. THE CONTRACTOR SHALL CONSTRUCT THE SEWER ON A STRAIGHT GRADE BETWEEN EXISTING UNDAUNED MANHOLES AFTER DAMAGED PIPE HAS BEEN REMOVED, AS SHOWN ON THIS PLAN AND PER US ARMY CORP. RESTORATION SANITARY SEWER SYSTEM PLAN NO SP-359 (DISTRICT FILE NO. 378/178) AND LA COUNTY FLOOD CONTROL DISTRICT SEWER PROJECT 256, PLAN NO. 181-256-DI.7.
  - FIELD VERIFY EXISTING WATER AND GAS SERVICE LATERALS AND RECONNECT, AS NECESSARY.
  - PRIOR TO CONSTRUCTION, ALL UTILITY CROSSINGS SHALL BE POTHOLED BY THE CONTRACTOR. CONFLICTS WITH THE PROPOSED SEWER SHALL BE REPORTED TO THE DESIGNER FOR RE-DESIGN, IF NECESSARY.



**SEWER CONSTRUCTION NOTES:**

- (P) PROTECT IN PLACE OR REPLACE IN KIND
- (R) REMOVE AS SHOWN
- (1) CONSTRUCT 15" HDPE (HIGH-DENSITY POLYETHYLENE) INSTALLATION METHOD PER PROFILE
- (2) MODIFY MANHOLE BASE TO MATCH INVERTS SHOWN. MODIFICATION SHALL CONFORM TO SPPWC STANDARD PLAN 208-2
- (3) RECONNECT EXISTING SEWER LATERAL TO MAINLINE PER MODIFIED SPPWC STANDARD PLAN 222-2. LATERAL LOCATIONS SHOWN WERE OBTAINED FROM CCTV INVESTIGATION. FINAL LOCATION TO BE DETERMINED DURING CONSTRUCTION. PIT REQUIRED TO RECONNECT.
- (4) CONSTRUCT 18" EXTRA STRENGTH VCP INSTALLATION METHOD PER PROFILE
- (5) CONSTRUCT PRECAST CONCRETE MANHOLE PER SPPWC STANDARD PLAN 200-3
- (6) CONSTRUCT 15" EXTRA STRENGTH VCP INSTALLATION METHOD PER PROFILE
- (7) CONSTRUCT 18" HDPE (HIGH-DENSITY POLYETHYLENE) INSTALLATION METHOD PER PROFILE



REVISIONS				
REV.	DATE	BY	DESCRIPTION	APP'D

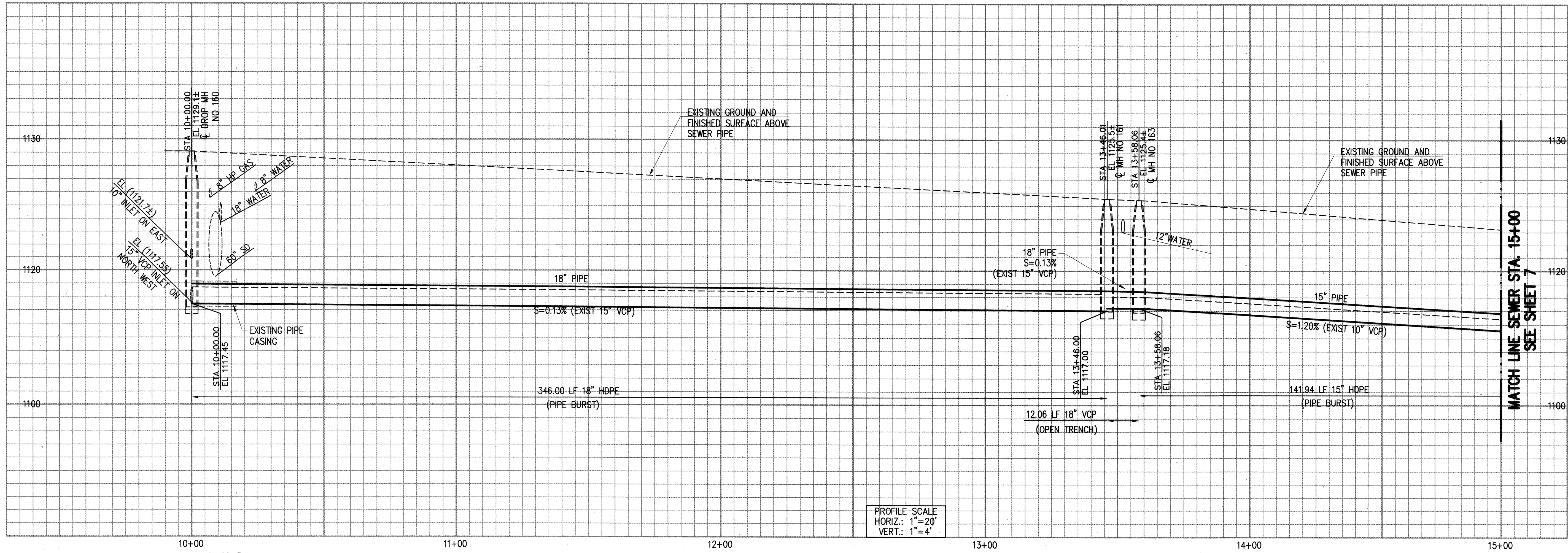
PLANS PREPARED BY:  
**WILLDAN**  
13191 CROSSROADS PARKWAY NORTH  
SUITE 405, INDUSTRY, CA 91746  
(626) 908-6200  
UNDER THE SUPERVISION OF:  
*[Signature]*  
RAY A. WELLINGTON RCE 25131 DATE 12/6/18  
DRAWN BY: SM DESIGNED BY: SM/RS CHECKED BY: RW

SUBMITTED BY:  
*[Signature]*  
PATSY OROZCO, ASSISTANT II  
DATE

CITY OF  
**SAN FERNANDO**  
HISTORIC & VISIONARY  
PUBLIC WORKS DEPARTMENT

**SEWER AND WATER IMPROVEMENT PLAN**  
**GLENOAKS BOULVARD**  
WORKMAN STREET TO HARDING AVENUE  
JOB NO. 7608 PLAN NO. P-730

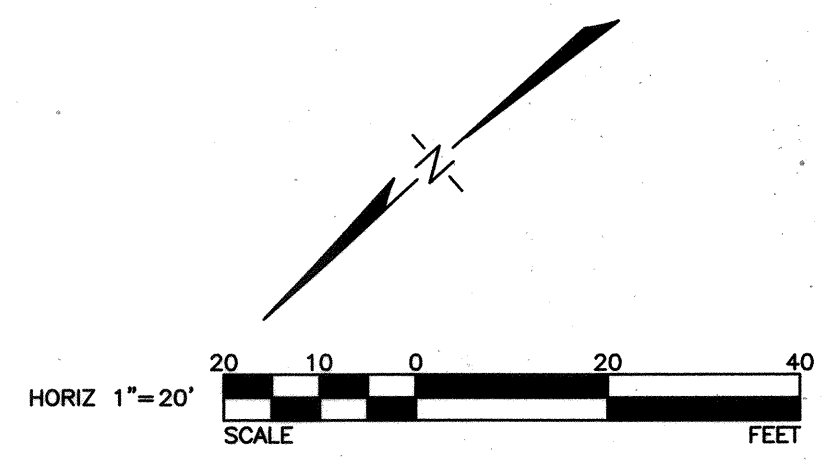
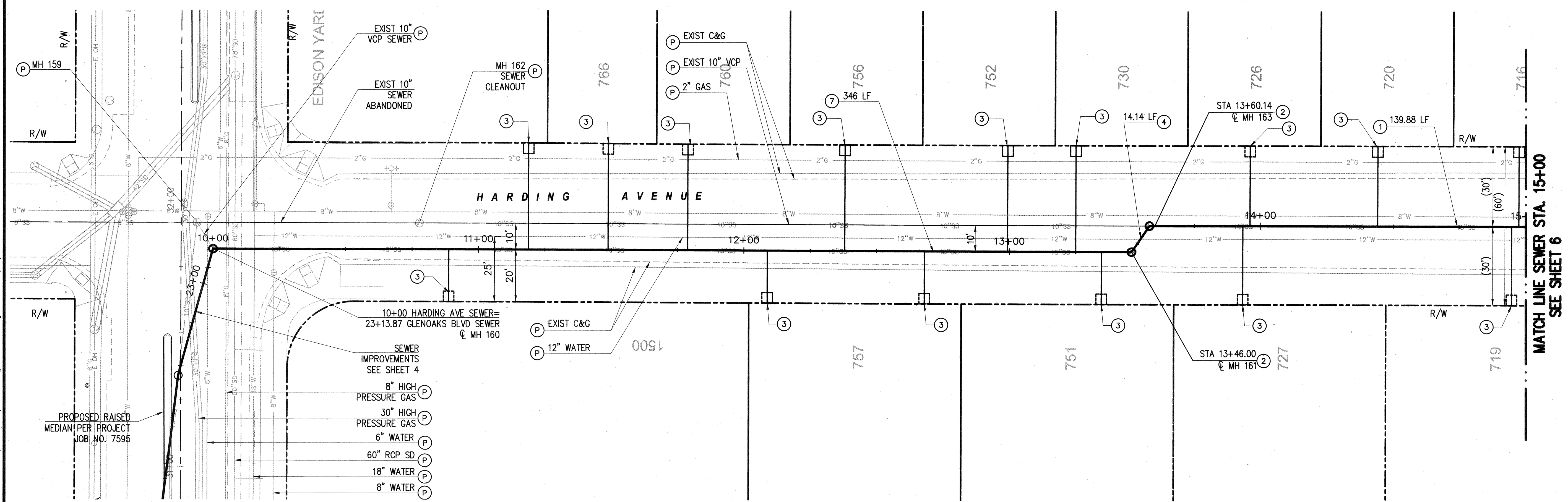





- SEWER NOTES:**
- TEES OR WYES MAY BE USED FOR JOINING HOUSE CONNECTION SEWERS TO THE MAINLINE SEWER. ALL TEES AND WYES SHALL BE ROTATED UPWARD FROM THE HORIZONTAL TO AN ANGLE OF 45 DEGREES, EXCEPT THAT A TEE OR WYE DESIGNATED ON THE PLAN AS A FLAT WYE SHALL BE ROTATED UPWARD 22 1/2 DEGREES.
  - NO BENCH MARK HAS BEEN PROVIDED ON THIS PLAN. THE CONTRACTOR SHALL CONSTRUCT THE SEWER ON A STRAIGHT GRADE BETWEEN EXISTING UNDAUNED MANHOLES AFTER DAMAGED PIPE HAS BEEN REMOVED, AS SHOWN ON THIS PLAN AND PER US ARMY CORP, RESTORATION SANITARY SEWER SYSTEM PLAN NO SP-359 (DISTRICT FILE NO. 378/178) AND LA COUNTY FLOOD CONTROL DISTRICT SEWER PROJECT 256, PLAN NO. 181-256-DI.7.
  - FIELD VERIFY EXISTING WATER AND GAS SERVICE LATERALS AND RECONNECT, AS NECESSARY.
  - PRIOR TO CONSTRUCTION, ALL UTILITY CROSSINGS SHALL BE POTHOLED BY THE CONTRACTOR. CONFLICTS WITH THE PROPOSED SEWER SHALL BE REPORTED TO THE DESIGNER FOR RE-DESIGN, IF NECESSARY.

**SEWER CONSTRUCTION NOTES:**

- (P) PROTECT IN PLACE OR REPLACE IN KIND
- (R) REMOVE AS SHOWN
- CONSTRUCT 15" HDPE (HIGH-DENSITY POLYETHYLENE) INSTALLATION METHOD PER PROFILE
  - MODIFY MANHOLE BASE TO MATCH INVERTS SHOWN. MODIFICATION SHALL CONFORM TO SPPWC STANDARD PLAN 208-2
  - RECONNECT EXISTING SEWER LATERAL TO MAINLINE PER MODIFIED SPPWC STANDARD PLAN 222-2. LATERAL LOCATIONS SHOWN WERE OBTAINED FROM CCTV INVESTIGATION. FINAL LOCATION TO BE DETERMINED DURING CONSTRUCTION. PIT REQUIRED TO RECONNECT.
  - CONSTRUCT 18" EXTRA STRENGTH VCP INSTALLATION METHOD PER PROFILE
  - CONSTRUCT PRECAST CONCRETE MANHOLE PER SPPWC STANDARD PLAN 200-3
  - CONSTRUCT 15" EXTRA STRENGTH VCP INSTALLATION METHOD PER PROFILE
  - CONSTRUCT 18" HDPE (HIGH-DENSITY POLYETHYLENE) INSTALLATION METHOD PER PROFILE

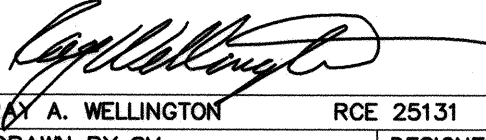




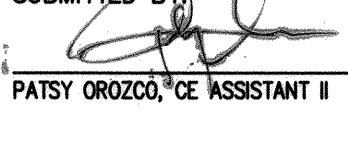
Know what's below.  
Call before you dig.

REV.	DATE	BY	DESCRIPTION	APP'D

REV.	DATE	BY	DESCRIPTION	APP'D

PLANS PREPARED BY:  
**WILLDAN**  
13191 CROSSROADS PARKWAY NORTH  
SUITE 405, INDUSTRY, CA 91746  
(922) 908-6200  
UNDER THE SUPERVISION OF:  
  
RAY A. WELLINGTON RCE 25131  
DRAWN BY: SM DESIGNED BY: SM/RS CHECKED BY: RW

12/6/18  
DATE

SUBMITTED BY:  
  
PATSY OROZCO, CE ASSISTANT II  
DATE

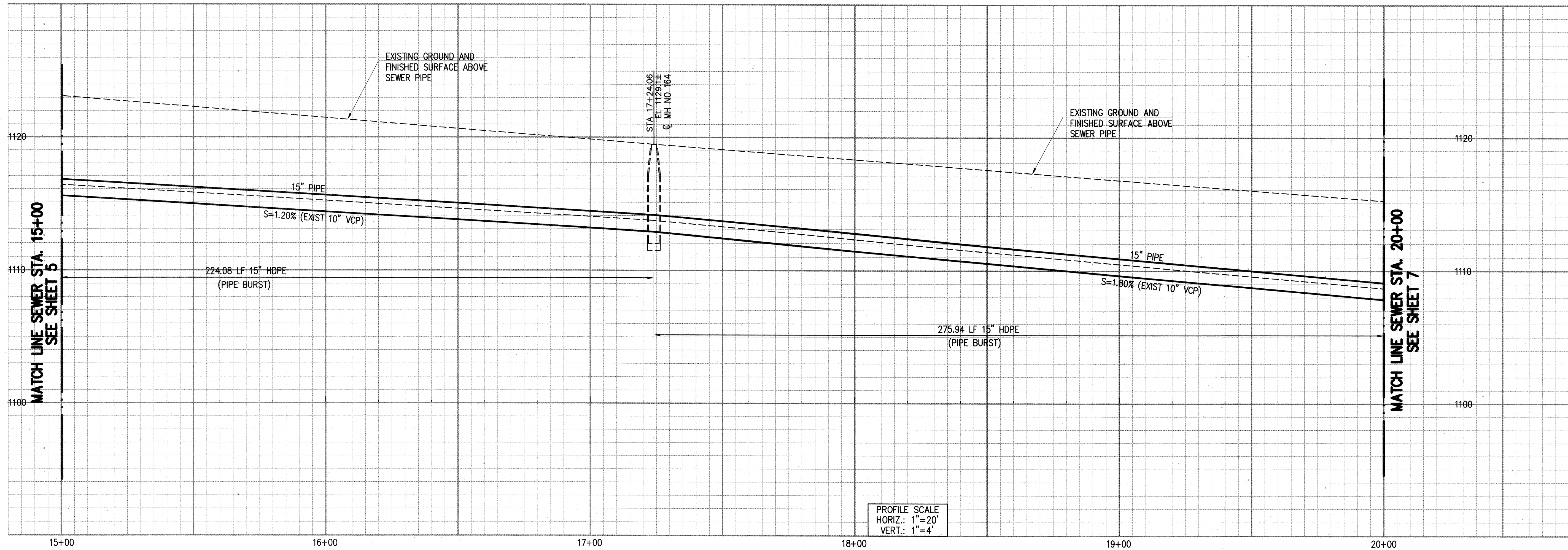
CITY OF  
**SAN FERNANDO**  
HISTORIC & VISIONARY  
PUBLIC WORKS DEPARTMENT

**SEWER AND WATER IMPROVEMENT PLAN**  
**HARDING AVENUE**  
10+00 TO 15+00

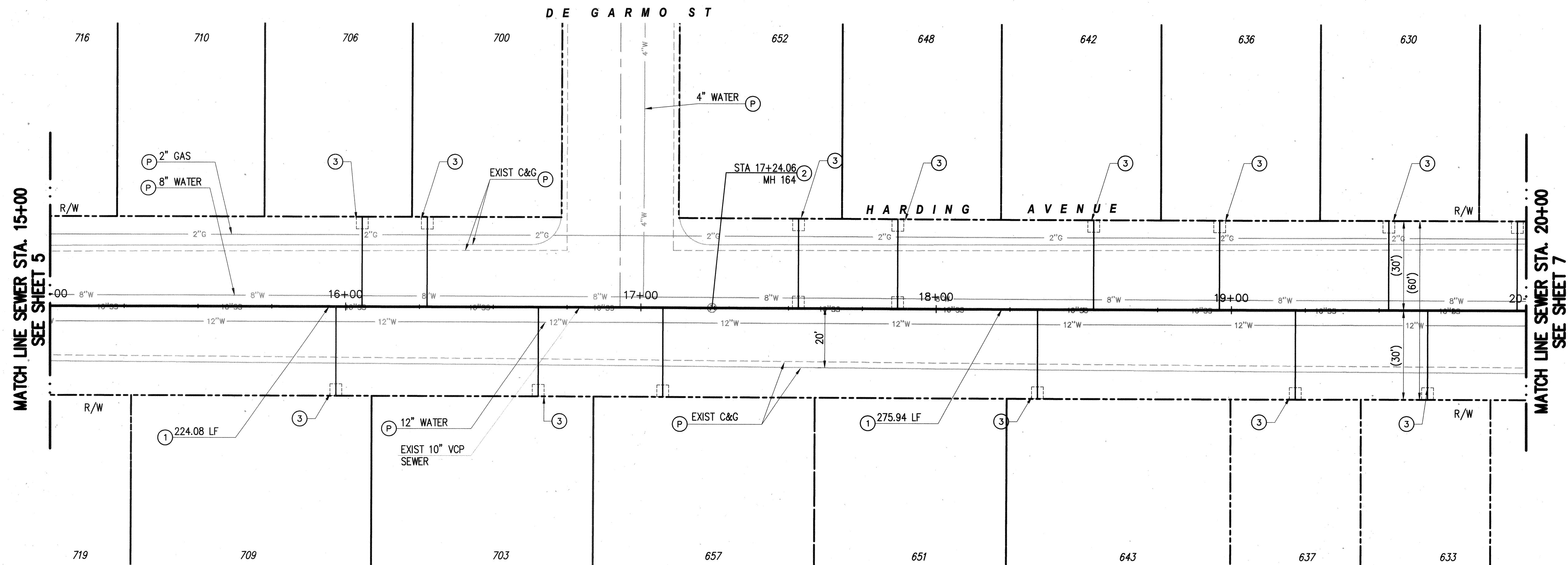
JOB NO. 7608  
PLAN NO. P-730

SHEET NO.  
5  
OF  
9



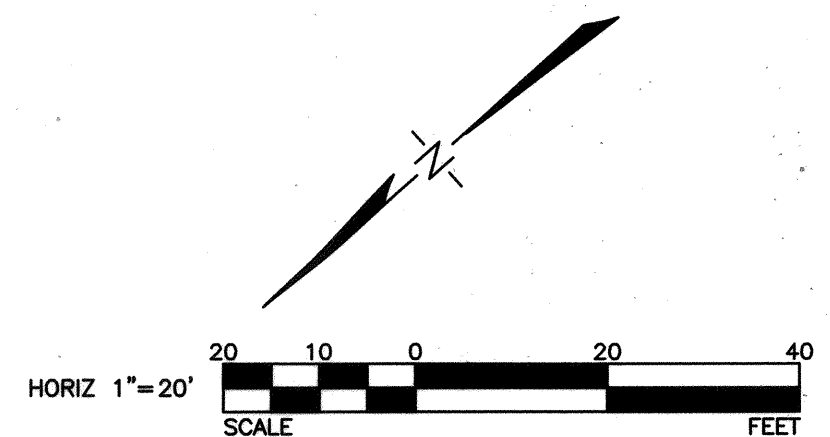


- SEWER NOTES:**
- TEES OR WYES MAY BE USED FOR JOINING HOUSE CONNECTION SEWERS TO THE MAINLINE SEWER. ALL TEES AND WYES SHALL BE ROTATED UPWARD FROM THE HORIZONTAL TO AN ANGLE OF 45 DEGREES, EXCEPT THAT A TEE OR WYE DESIGNATED ON THE PLAN AS A FLAT WYE SHALL BE ROTATED UPWARD 22 1/2 DEGREES.
  - NO BENCH MARK HAS BEEN PROVIDED ON THIS PLAN. THE CONTRACTOR SHALL CONSTRUCT THE SEWER ON A STRAIGHT GRADE BETWEEN EXISTING UNBURNED MANHOLES AFTER DAMAGED PIPE HAS BEEN REMOVED, AS SHOWN ON THIS PLAN AND PER US ARMY CORP, RESTORATION SANITARY SEWER SYSTEM PLAN NO SP-359 (DISTRICT FILE NO. 378/178) AND LA COUNTY FLOOD CONTROL DISTRICT SEWER PROJECT 256, PLAN NO. 181-256-DI.7.
  - FIELD VERIFY EXISTING WATER AND GAS SERVICE LATERALS AND RECONNECT, AS NECESSARY.
  - PRIOR TO CONSTRUCTION, ALL UTILITY CROSSINGS SHALL BE POTHOLED BY THE CONTRACTOR. CONFLICTS WITH THE PROPOSED SEWER SHALL BE REPORTED TO THE DESIGNER FOR RE-DESIGN, IF NECESSARY.



**SEWER CONSTRUCTION NOTES:**

- (P) PROTECT IN PLACE OR REPLACE IN KIND
- (R) REMOVE AS SHOWN
- CONSTRUCT 15" HDPE (HIGH-DENSITY POLYETHYLENE) INSTALLATION METHOD PER PROFILE
  - MODIFY MANHOLE BASE TO MATCH INVERTS SHOWN. MODIFICATION SHALL CONFORM TO SPPWC STANDARD PLAN 208-2
  - RECONNECT EXISTING SEWER LATERAL TO MAINLINE PER MODIFIED SPPWC STANDARD PLAN 222-2. LATERAL LOCATIONS SHOWN WERE OBTAINED FROM CCTV INVESTIGATION. FINAL LOCATION TO BE DETERMINED DURING CONSTRUCTION. PIT REQUIRED TO RECONNECT.
  - CONSTRUCT 18" EXTRA STRENGTH VCP INSTALLATION METHOD PER PROFILE
  - CONSTRUCT PRECAST CONCRETE MANHOLE PER SPPWC STANDARD PLAN 200-3
  - CONSTRUCT 15" EXTRA STRENGTH VCP INSTALLATION METHOD PER PROFILE
  - CONSTRUCT 18" HDPE (HIGH-DENSITY POLYETHYLENE) INSTALLATION METHOD PER PROFILE



REVISIONS				
REV.	DATE	BY	DESCRIPTION	APP'D

PLANS PREPARED BY:  
**WILLDAN**  
13191 CROSSROADS PARKWAY NORTH  
SUITE 405, INDUSTRY, CA 91746  
(909) 908-6200  
UNDER THE SUPERVISION OF:  
  
RAY A. WELLINGTON  
DESIGNED BY: SM/RS | CHECKED BY: RW

12/8/18  
DATE

NO. 25131  
CIVIL  
STATE OF CALIFORNIA

SUBMITTED BY:  
  
PATSY OROZCO, ASSISTANT II  
DATE

CITY OF  
**SAN FERNANDO**  
HISTORIC & VISIONARY  
PUBLIC WORKS DEPARTMENT

**SEWER AND WATER IMPROVEMENT PLAN**  
**HARDING AVENUE**  
15+00 TO 20+00

JOB NO. 7608 | PLAN NO. P-730

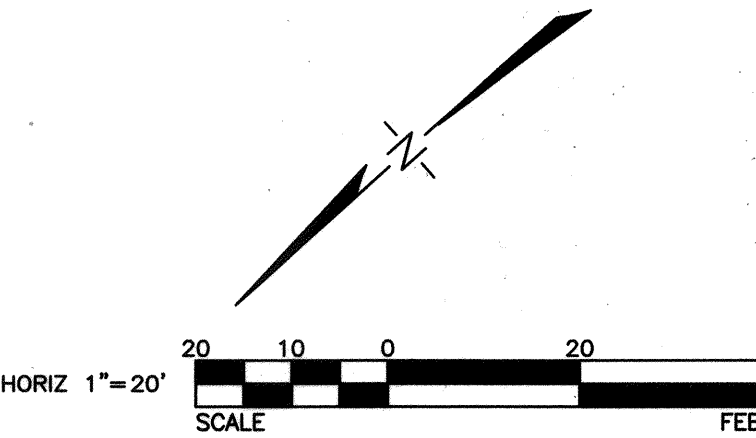
SHEET NO. 6 OF 9



- SEWER NOTES:**
- TEES OR WYES MAY BE USED FOR JOINING HOUSE CONNECTION SEWERS TO THE MAINLINE SEWER. ALL TEES AND WYES SHALL BE ROTATED UPWARD FROM THE HORIZONTAL TO AN ANGLE OF 45 DEGREES, EXCEPT THAT A TEE OR WYE DESIGNATED ON THE PLAN AS A FLAT WYE SHALL BE ROTATED UPWARD 22 1/2 DEGREES.
  - NO BENCH MARK HAS BEEN PROVIDED ON THIS PLAN. THE CONTRACTOR SHALL CONSTRUCT THE SEWER ON A STRAIGHT GRADE BETWEEN EXISTING UNDAUNED MANHOLES AFTER DAMAGED PIPE HAS BEEN REMOVED, AS SHOWN ON THIS PLAN AND PER US ARMY CORP, RESTORATION SANITARY SEWER SYSTEM PLAN NO SP-359 (DISTRICT FILE NO. 378/178) AND LA COUNTY FLOOD CONTROL DISTRICT SEWER PROJECT 256, PLAN NO. 181-256-DI.7.
  - FIELD VERIFY EXISTING WATER AND GAS SERVICE LATERALS AND RECONNECT, AS NECESSARY.
  - PRIOR TO CONSTRUCTION, ALL UTILITY CROSSINGS SHALL BE POTHOLED BY THE CONTRACTOR. CONFLICTS WITH THE PROPOSED SEWER SHALL BE REPORTED TO THE DESIGNER FOR RE-DESIGN, IF NECESSARY.

**SEWER CONSTRUCTION NOTES:**

- (P) PROTECT IN PLACE OR REPLACE IN KIND
- (R) REMOVE AS SHOWN
- CONSTRUCT 15" HDPE (HIGH-DENSITY POLYETHYLENE) INSTALLATION METHOD PER PROFILE
  - MODIFY MANHOLE BASE TO MATCH INVERTS SHOWN. MODIFICATION SHALL CONFORM TO SPPWC STANDARD PLAN 208-2
  - RECONNECT EXISTING SEWER LATERAL TO MAINLINE PER MODIFIED SPPWC STANDARD PLAN 222-2. LATERAL LOCATIONS SHOWN WERE OBTAINED FROM CCTV INVESTIGATION. FINAL LOCATION TO BE DETERMINED DURING CONSTRUCTION. PIT REQUIRED TO RECONNECT.
  - CONSTRUCT 18" EXTRA STRENGTH VCP INSTALLATION METHOD PER PROFILE
  - CONSTRUCT PRECAST CONCRETE MANHOLE PER SPPWC STANDARD PLAN 200-3
  - CONSTRUCT 15" EXTRA STRENGTH VCP INSTALLATION METHOD PER PROFILE
  - CONSTRUCT 18" HDPE (HIGH-DENSITY POLYETHYLENE) INSTALLATION METHOD PER PROFILE



MATCH LINE SEWER STA. 20+00  
SEE SHEET 6

MATCH LINE SEWER STA. 20+00  
SEE SHEET 6

PROFILE SCALE  
HORIZ.: 1"=20'  
VERT.: 1"=4'

**REVISIONS**

REV.	DATE	BY	DESCRIPTION	APP'D	REV.	DATE	BY	DESCRIPTION	APP'D

PLANS PREPARED BY:  
**WILLDAN**  
13191 CROSSROADS PARKWAY NORTH  
SUITE 405, INDUSTRY, CA 91746  
(562) 908-6200  
UNDER THE SUPERVISION OF:  
*[Signature]*  
RAY A. WELLINGTON RCE 25131 DATE 12/6/18  
DRAWN BY: SM DESIGNED BY: SM/RS CHECKED BY: RW



SUBMITTED BY:  
*[Signature]*  
PATSY OROZCO, CE ASSISTANT II  
DATE



CITY OF  
**SAN FERNANDO**  
HISTORIC & VISIONARY

PUBLIC WORKS DEPARTMENT

**SEWER AND WATER IMPROVEMENT PLAN**  
**HARDING AVENUE**  
20+00 TO 23+10.44

JOB NO. 7608

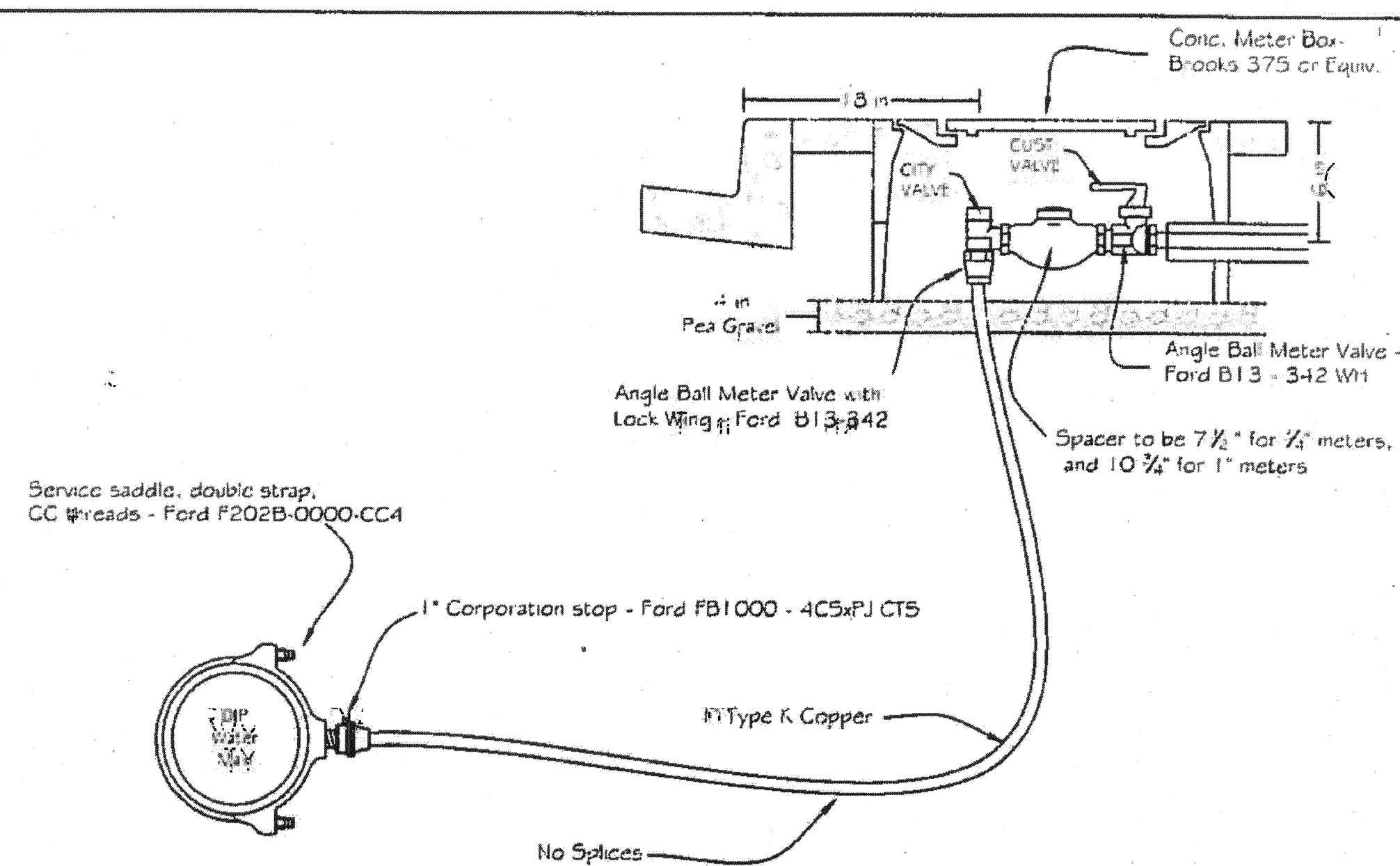
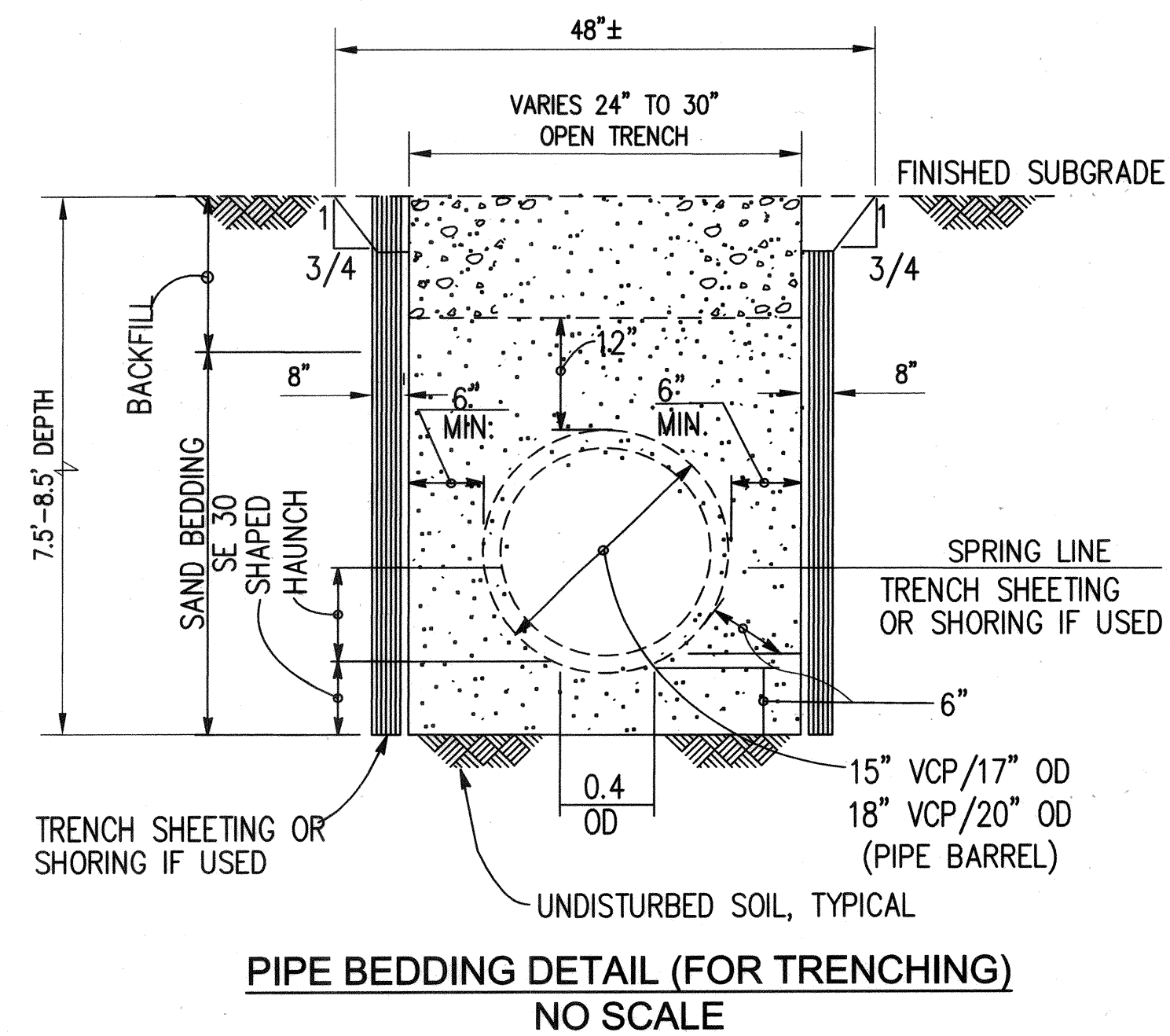
PLAN NO. P-730

SHEET NO.  
7  
OF  
9



Know what's below.  
Call before you dig.





### GENERAL NOTES

1. Meters will be furnished & installed by the city.
2. If the service line is lead or galvanized steel the entire service shall be replaced from main to meter with copper.
3. All customer tie-ins will be with sch. pvc, galv., or copper
4. Households shall be notified at least one hour prior to water shut off to make a connection.
5. All new services shall be 1" or larger.
6. If service replacement includes the tap at the main, the new connection shall be made 1' from the old connection. The old cap stop shall be closed and a threaded brass plug or cap installed
7. Any boxes which do not meet the current standards listed shall be upgraded.

RECOMMENDED MATERIALS	MANUFACTURER
Corporation Stop 1"	FORD FB1000 - ACS x PJ CTS
Angle Meter Stop 1" x 3/4"	FORD BA43-32W
Customer Hand Valve 1" x 3/4"	FORD B13-342W
Meter Box 12" x 20"	BROOKS 375 or QUICK-SEAL W/20 (375)
Double Strap Service Saddle Bronze	FORD 2025-0000-CC4

CITY OF SAN FERNANDO		
SUBMITTED	DATE	CONSTRUCTION STANDARDS
APPROVED	DATE	3/4" and 1" Meter Installation

PLATE NO. 19



Know what's below.  
**Call** before you dig.

[illegible]

## REVISIONS


PLANS PREPARED BY:

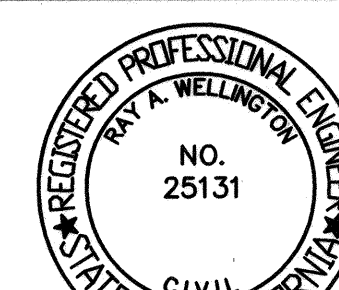
 **WILLDAN** | *extending  
your reach*  
Engineering

13191 CROSSROADS PARKWAY NORTH  
SUITE 405, INDUSTRY, CA 91746  
(562) 908-6200

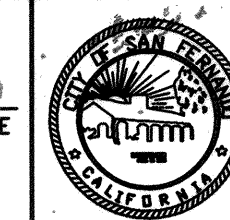
UNDER THE SUPERVISION OF:

(562) 908-6200  
UNDER THE SUPERVISION OF:

		CIVIL STATE OF CALIF.
RAY A. WELLINGTON		12/6/18
RCE 25131		DATE
DRAWN BY: SM	DESIGNED BY: SM/RS	CHECKED BY: RW



SUBMITTED BY:   
PATSY OROZCO, CE ASSISTANT II



CITY OF  
**SAN FERNANDO**  
HISTORIC & VISIONARY

PUBLIC WORKS DEPARTMENT

**SEWER AND WATER IMPROVEMENT PLAN**  
**GLENOAKS BOULEVARD**  
**SEWER & WATER DETAILS**

JOB NO. 7608

PLAN NO. P-730

SHEET No.

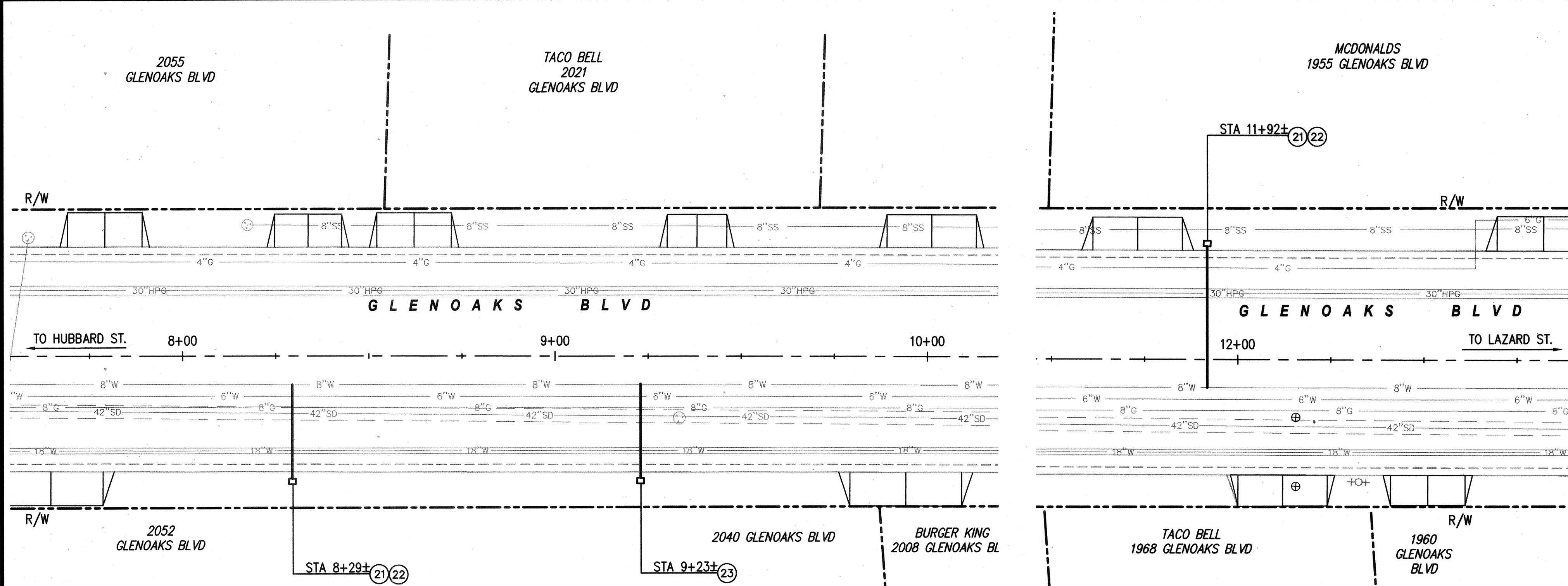
8

OF

9



Directory Path: U:\107289 - SF Glenoaks & HSP-7\900-PS&E\901-Plans\p1-SSWR-08.dwg, Date: 12/06/18



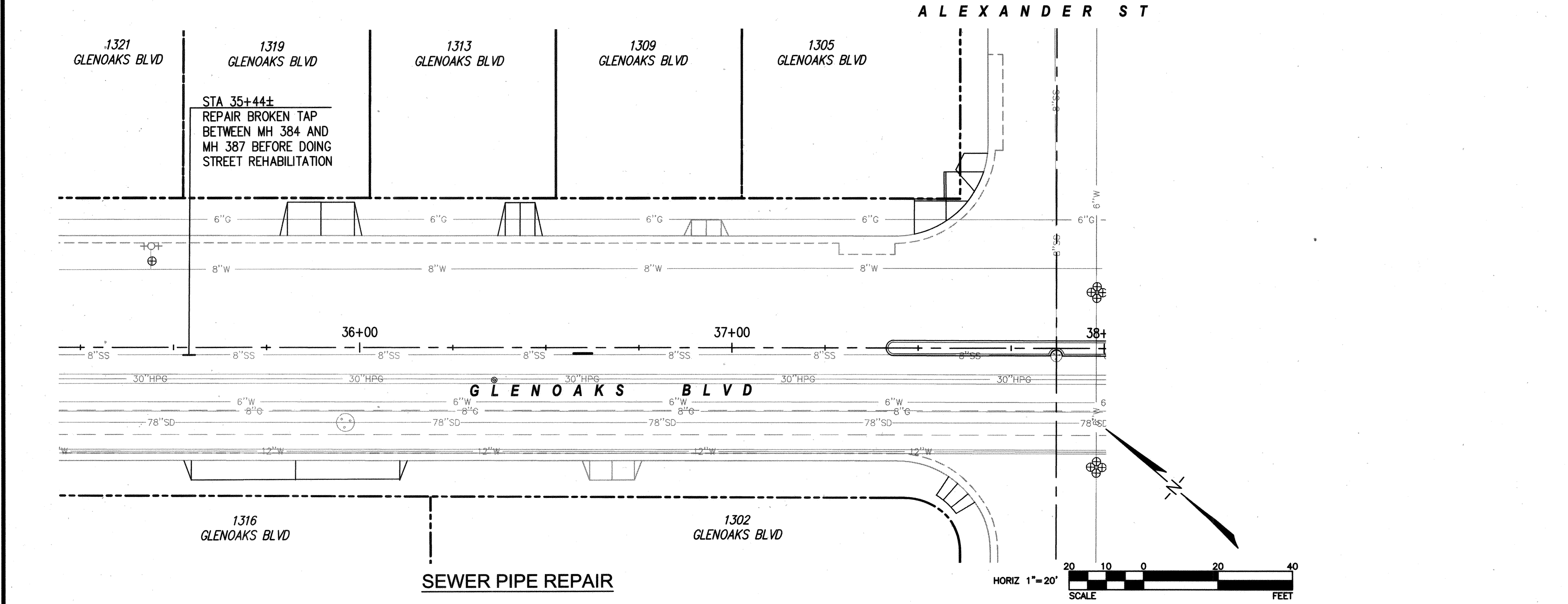
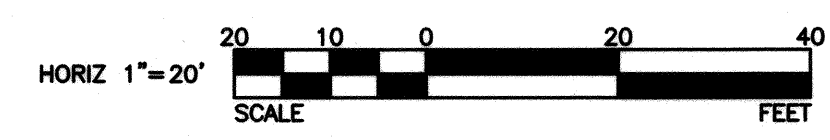
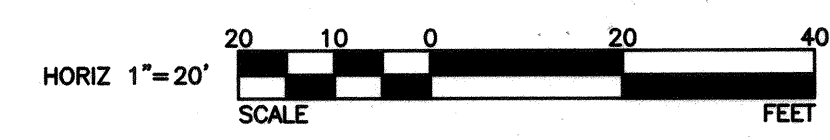
WATER IMPROVEMENT  
2052 GLENOAKS BLVD

WATER IMPROVEMENT  
2040 GLENOAKS BLVD

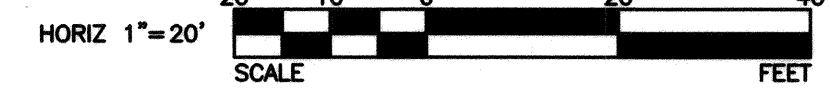
WATER IMPROVEMENT  
1955 GLENOAKS BLVD

WATER CONSTRUCTION NOTES:

- 21. INSTALL 1" WATER METER INSTALLATION PER SAN FERNANDO STANDARD PLATE NO 19 (WATER METER TO BE FURNISHED BY THE CITY).
- 22. ABANDON EXISTING WATER SERVICE IN PLACE. REMOVE EXISTING WATER METER AND DELIVER TO CITY.
- 23. INSTALL 3/4" WATER METER INSTALLATION FOR SAMPLING STATION PER SAN FERNANDO STANDARD PLATE NO 19 (WATER METER AND SAMPLING STATION TO BE FURNISHED BY THE CITY).



SEWER PIPE REPAIR



WATER GENERAL NOTES:

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS, CONTRACT SPECIFICATIONS, STANDARD DRAWINGS, AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK- LATEST EDITION) AND THE AMERICAN WATER WORKS ASSOCIATION (AWWA).
- 2. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS.
- 3. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER UTILITIES NOT ON RECORD OR NOT SHOWN ON THESE PLANS.
- 4. THE CONTRACTOR SHALL KEEP A COPY OF THIS INFORMATION ON THE JOBSITE.
- 5. A PRECONSTRUCTION MEETING SHALL BE HELD A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK.
- 6. THE CONTRACTOR SHALL NOTIFY THE AGENCY'S CONSTRUCTION MANAGER, SALVADOR QUINTANILLA, @ (818) 898-1240 A MINIMUM OF 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION AND 48 HOURS IN ADVANCE OF INSPECTION REQUESTS. THE CONTRACTOR SHALL SUBMIT A WRITTEN PROPOSED CONSTRUCTION SCHEDULE IDENTIFYING DAYS AND HOURS OF CONSTRUCTION, ANTICIPATED STREET CLOSURES AND COORDINATION REQUIREMENTS.
- 7. PROJECT STATIONING REFERS TO THE CENTERLINE OF THE STREET.
- 8. STOCK PILING OF REMOVED MATERIAL WILL NOT BE ALLOWED IN OR AROUND THE PROJECT SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAULING OFF ALL EXCESS MATERIALS GENERATED DURING THE CONSTRUCTION OF THIS PROJECT TO AN APPROVED DISPOSAL SITE.
- 9. DUST SHALL BE CONTROLLED WITH WATER OR AS REQUIRED UNDER THE DIRECTION OF THE INSPECTOR.
- 10. REMOVAL OF ALL VEGETATION AND DEBRIS PRIOR TO ANY GRADING IS REQUIRED.
- 11. ONLY CITY OF SAN FERNANDO PERSONEL SHALL OPERATE ANY VALVES ON THE EXISTING WATER SYSTEM.
- 12. WATER LINES SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION, BACKFILLING AND COMPACTION PER AWWA STANDARDS.
- 13. PRIOR TO FIELD ACCEPTANCE AND BEFORE OPENING THE LINE TO THE CITY SYSTEM, THE LINE SHALL BE DISINFECTED, THOROUGHLY FLUSHED AND THE CITY WILL TAKE A SAMPLE FOR BACTERIOLOGICAL TESTING. THE LINE WILL NOT BE ACCEPTED UNTIL SATISFACTORY TEST RESULTS ARE RECEIVED FROM STATE CERTIFIED LAB.
- 14. NO EXCAVATION SHALL BE LEFT OPEN AFTER DAYLIGHT HOURS. EXCAVATIONS SHALL BE BACKFILLED AND PAVEMENT REPLACED OR BRIDGED WITH TRAFFIC RATED STEEL PLATES.
- 15. CONTRACTOR WORK SHALL BE 7:00 AM TO 4:00 PM MONDAY THRU FRIDAY, EXCLUDING HOLIDAYS, UNLESS OTHERWISE ACCEPTED BY THE CITY. ALL WORK WITHIN ARTERIAL STREETS SHALL BE LIMITED TO 9:00 AM AND 3:00 PM.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING WATER METER ASSEMBLIES TO THE NEW WATER MAIN INCLUDING METER BOXES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR RECONNECTIONS OF ALL PRIVATE SIDE WATER SERVICES. THE CITY WILL PROVIDE THE CONTRACTOR WITH A WATER METER AS NEEDED.
- 17. AS-BUILT DRAWINGS: THE CONTRACTOR SHALL MAINTAIN CURRENT BLACKLINE OR BLUELINE DRAWINGS DURING CONSTRUCTION NEATLY MARKED IN RED INK TO REFLECT THE AS-BUILT CONDITIONS. CONTRACTOR SHALL MAKE UPDATES TO THE AS-BUILTS DRAWINGS ON A DAILY BASIS.
- 18. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 19. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER OR ON-SITE INSPECTOR.
- 20. UPON COMPLETION OF EACH DAY'S WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING THE WORK AREA FREE OF HAZARDS, AND SHALL PROVIDE ALL NECESSARY TEMPORARY SIGNS, WARNING DEVICES, BARRICADES AND TEMPORARY PLATES. TEMPORARY ACCESS IS TO BE PROVIDED TO ALL ADJACENT RESIDENCES AND BUSINESSES DURING NON-CONSTRUCTION HOURS.
- 21. ALL EXISTING UTILITIES, INCLUDING SEWER LATERALS WITHIN THE NEW PIPELINE ALIGNMENT SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGED UTILITIES, INCLUDING LATERALS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

GENERAL SEWER NOTES:

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CONTRACT PROVISIONS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK). ALL REFERENCE SPECIFICATIONS AND STANDARDS SHALL BE THE LATEST EDITION UNLESS OTHERWISE NOTED.
- 2. WHEN A TECHNICAL CONFLICT IS FOUND TO EXIST IN THE CONTRACT DOCUMENTS THAT CAN NOT BE RESOLVED BY REFERENCE TO PRECEDENCE PROVISIONS IN THE "GREEN BOOK", THE CONTRACTOR SHALL IMMEDIATELY REPORT SAID CONFLICT TO THE CITY ENGINEER FOR RESOLUTION.
- 3. ALL MATERIALS AND METHODS ARE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
- 4. CONSTRUCTION PERMITS SHALL BE OBTAINED FROM THE CITY, PRIOR TO THE START OF ANY WORK. INSPECTION COORDINATION SHALL BE REQUESTED AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY WORK IN PUBLIC RIGHT-OF-WAY WITHIN THE CITY LIMITS.
- 5. THE CONTRACTOR SHALL CONFORM TO ALL TRAFFIC CONTROL POLICIES, METHODS AND PROCEDURES DESCRIBED IN THE STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROLS, LATEST NON-METRIC EDITION UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- 6. IT SHALL BE THE REASONABILITY OF THE CONTRACTOR TO MAINTAIN BARRICADES, DELINEATORS OR OTHER TRAFFIC CONTROL DEVICES AT ALL TIMES.
- 7. THE CONTRACTOR SHALL OBTAIN A PERMIT TO PERFORM EXCAVATION OR TRENCH WORK FOR TRENCHES 5 FEET OR GREATER IN DEPTH FROM THE CALIFORNIA STATE DIVISION OF INDUSTRIAL SAFETY AND PROVIDE COPY TO THE CITY.
- 8. THE WALLS AND FACES OF ALL EXCAVATIONS GREATER THAN FIVE (5) FEET IN DEPTH SHALL BE GUARDED BY SHORING, SLOPING OF THE GROUND OR OTHER APPROVED MEANS PURSUANT TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. TRENCHES LESS THAN FIVE (5) FEET SHALL ALSO BE GUARDED WHEN THE POTENTIAL EXISTS FOR GROUND MOVEMENT.
- 9. NO MATERIAL OR EQUIPMENT SHALL BE STORED IN THE PUBLIC RIGHT OF WAY WITHOUT OBTAINING SEPARATE PERMIT FOR THAT PURPOSE.
- 10. THE LOCATIONS OF UTILITIES SHOWN HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION, HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE, IN THE FIELD, THE TRUE LOCATION AND ELEVATION OF ANY EXISTING UTILITIES, AND TO EXERCISE PROPER PRECAUTION TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT 1-800-227-2600 TWO WORKING DAYS BEFORE EXCAVATION.
- 11. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH ALL UTILITY COMPANIES INCLUDING, BUT NOT LIMITED TO, GAS, TELEPHONE, ELECTRIC, CABLE TELEVISION, LANDSCAPE, IRRIGATION, DOMESTIC WATER, RECLAIMED WATER, SEWER, STORM DRAIN, FLOOD CONTROL AND CALTRANS. ALL UTILITY COMPANIES SHALL BE GIVEN TWO WORKING DAYS NOTICE PRIOR TO WORK AROUND THEIR FACILITIES.
- 12. THE CONTRACTOR SHALL NOT OPERATE ANY FIRE HYDRANT OR WATER MAIN VALVES WITHOUT APPROPRIATE AGENCY AUTHORIZATION. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE WATER COMPANY FOR VALVE OPERATION AND WATER REQUIREMENTS.
- 13. STATIONING REFERS TO THE CENTERLINE OF SEWER EXCEPT WHERE OTHERWISE NOTED.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONSTRUCTION SURVEY OR CONSTRUCTION CONTROL STAKING TO ENABLE THE CITY CONSTRUCTION INSPECTOR TO CHECK AND VERIFY WITH THE PLAN GRADES.
- 15. THE CONTRACTOR SHALL NOT DISTURB EXISTING SURVEY MONUMENTS, MONUMENT TIES OR BENCH MARKS WITHOUT PRIOR NOTIFICATION TO THE CITY ENGINEER.
- 16. REMOVAL AND REPLACEMENT OF EXISTING SURVEY CONTROL, INCLUDING SURVEY MONUMENTS, MONUMENT TIES AND BENCH MARKS, SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR. SURVEY MONUMENTS THAT WILL BE DESTROYED AS A RESULT OF THIS CONSTRUCTION SHALL BE REPLACED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER ONE WEEK PRIOR TO CONSTRUCTION SO THAT TIES TO MONUMENTS CAN BE ESTABLISHED FOR LATER REPLACEMENT OF THE MONUMENT.
- 17. THE CONTRACTOR SHALL MAINTAIN STREET ACCESS FOR LOCAL RESIDENTS AND BUSINESSES AT ALL TIMES. A MINIMUM 12 FOOT LANE SHALL BE MAINTAINED AT ALL TIMES IN THE CONSTRUCTION AREA FOR RESIDENTS AND EMERGENCY VEHICLES.
- 18. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFECTIVE MEANS OF DUST CONTROL, INCLUDING ADEQUATE WATERING, AT ALL TIMES.
- 19. THE CONTRACTOR SHALL NOT CAUSE ANY EXCAVATED MATERIAL, MUD, SILT OR DEBRIS TO BE DEPOSITED ONTO PUBLIC OR PRIVATE PROPERTY ADJACENT TO THE RIGHT-OF-WAY DURING CONSTRUCTION WITHOUT PRIOR WRITTEN APPROVAL.
- 20. NO EXCAVATION BACKFILL SHALL TAKE PLACE WITHOUT PRIOR APPROVAL OF THE CITY CONSTRUCTION INSPECTOR.
- 21. A GEOTECHNICAL ENGINEER SHALL CERTIFY ALL BACKFILL COMPACTION. FAILURE TO OBTAIN THE REQUIRED DENSITY SHALL REQUIRE RE-WORKING OF THAT PORTION OF THE WORK UNTIL THE SPECIFIED DENSITY IS OBTAINED.
- 22. CARE SHOULD BE TAKEN TO PREVENT GRADES, DITCHES, AND SWALES FROM UNDERMINING STREET IMPROVEMENTS. UPON INSPECTION OF THE SITE, THE CITY ENGINEER MAY REQUIRE TEMPORARY NON-ERODEABLE SWALES ENTERING OR LEAVING IMPROVEMENTS.
- 23. ALL EXPOSED CONCRETE SURFACES SHALL CONFORM IN GRADE, COLOR AND FINISH TO MATCH EXISTING CONCRETE.
- 24. SANITARY SEWER PIPE LINES SHALL BE CONSTRUCTED OF VITRIFIED CLAY PIPE (VCP) EXTRA STRENGTH CLASS OR HDPE (HIGH-DENSITY POLYETHYLENE) AND SHALL CONFORM TO PROVISIONS AS DESCRIBED IN THE CONTRACT SPECIFICATIONS.
- 25. NO OPEN TRENCH SHALL BE ALLOWED AT THE END OF THE DAY WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER.
- 26. FOR VCP ONLY SEWER, SHORT VCP STUBS WITH FLEXIBLE COMPRESSION JOINTS SHALL BE USED AT MANHOLE WALLS TO ALLOW FOR MINOR DEFLECTIONS IN ALIGNMENT.
- 27. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXPOSE EXISTING FACILITIES, AND VERIFY ELEVATION AND LOCATION OF CONNECTIONS. CITY APPROVAL OF CONNECTIONS TO EXISTING FACILITIES DOES NOT IMPLY CORRECTNESS OF ELEVATIONS OR LOCATIONS SHOWN ON THE PLANS.
- 28. IF EXISTING UTILITIES OR ANY OTHER FACILITIES CONFLICT WITH THE PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND ALL AFFECTED AGENCIES IMMEDIATELY.
- 29. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAVE BEEN PLACED, INSPECTED AND APPROVED.
- 30. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED, TESTED AND APPROVED PRIOR TO PAVING OF STREETS.
- 31. ALL MANHOLES, CLEANOUTS, FRAMES, COVERS AND VALVE BOXES SHALL BE RAISED TO FINISHED GRADE BY THE PAVING CONTRACTOR UPON COMPLETION OF PAVING.
- 32. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL RESTORE ALL SIGNING, STRIPING, BARRICADES, AND OTHER TRAFFIC CONTROL DEVICES TO THE SATISFACTION OF THE CITY ENGINEER.
- 33. AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER OF RECORD, WHO SHALL PROVIDE RECORD DRAWINGS TO THE CITY ENGINEER.

REVISIONS				
REV.	DATE	BY	DESCRIPTION	APP'VD

PLANS PREPARED BY:  
**WILLDAN**  
13191 CROSSROADS PARKWAY NORTH  
SUITE 405, INDUSTRY, CA 91746  
(562) 908-6200  
UNDER THE SUPERVISION OF:  
  
RAY A. WELLINGTON RCE 25131 DATE 12/8/18  
DRAWN BY: SM DESIGNED BY: SM/RS CHECKED BY: RW

SUBMITTED BY:   
PATIST OROZCO, CA ASSISTANT II DATE

  
**SAN FERNANDO**  
HISTORIC & VISIONARY  
PUBLIC WORKS DEPARTMENT

**SEWER AND WATER IMPROVEMENT PLAN  
GLENOAKS BOULEVARD  
WATER AND SEWER DETAILS AND GENERAL NOTES**

JOB NO. 7608 PLAN NO. P-730

SHEET NO. 9 OF 9