

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:

A. CITY OF SAN FERNANDO WATER CONSTRUCTION DRAWINGS STANDARDS.

B. STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION

C. AWWA STANDARD SPECIFICATIONS

D. STANDARD PLANS FOR CONSTRUCTION OF LOCAL STREETS AND ROADS.

E. JULY 2006 (STATE OF CALIFORNIA)

F. PROJECT SPECIFICATIONS

G. COUNTY OF LOS ANGELES PRIVATE CONTRACT SANITARY SEWER CONSTRUCTION OF SANITARY SEWER.

H. AWWA STD SPECIFICATIONS, LATEST EDITION
2. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER FORTY- EIGHT (48) HOURS PRIOR TO STARTING ANY WORK. TELEPHONE NUMBER (818) 888-1222 APPROVAL OF THIS PLAN BY THE CITY OF SAN FERNANDO DEPARTMENT OF PUBLIC WORKS DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
3. THESE PLANS ARE HEREBY MADE A PART OF THE SPECIFICATIONS AND CONTRACTUAL AGREEMENT.
4. NO REVISION SHALL BE MADE TO THESE PLANS WITHOUT THE PRIOR APPROVAL OF THE CITY ENGINEER.
5. THE CONTRACTOR IS TO PROVIDE THE CITY WITH AN AS-BUILT SET OF CONSTRUCTION PLANS
6. THE CONTRACTOR SHALL APPLY FOR ALL NECESSARY CONSTRUCTION PERMITS FOR ALL WORK AS SHOWN ON THESE PLANS FROM THE CITY OF SAN FERNANDO. THE CONTRACTOR MUST CONTACT THE CITY OF SAN FERNANDO DEPARTMENT OF PUBLIC WORKS. TO RESOLVE THE NECESSARY PERMIT & INSPECTION FEES.
7. THE CONTRACTOR SHALL POSSESS A VALID STATE CONTRACTORS LICENSE AND SHALL BE REQUIRED TO POSSESS A VALID CITY BUSINESS LICENSE WHILE PERFORMING WORK ON THIS PROJECT.
8. ANY CONTRACTOR PERFORMING WORK AS INDICATED HEREON FOR THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR NOT SUCH FACILITIES ARE SHOWN ON THESE PLANS.
9. THE CONTRACTORS ATTENTION IS EXPRESSLY DIRECTED TO ALL THE REQUIREMENTS AND PROVISIONS OF THE STATE OF CALIFORNIA SAFETY REGULATION. COMPLIANCE THERE TO SHALL BE STRICTLY ENFORCED DURING THE ENTIRE LIFE OF THE CONTRACT.
10. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EARTH EXCAVATION OUTSIDE OF THE PROJECT AREA UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER. ALL AC AND CONCRETE REMOVALS SHALL BE DISPOSED OF OFF-SITE.
11. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE BEFORE COMMENCING ANY PORTION OF THE WORK. COMPARE ACTUAL CONDITIONS WITH DRAWINGS TO ASCERTAIN CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURES, EQUIPMENT, AND UTILITIES WHICH MAY AFFECT WORK. COMMENCEMENT OF WORK SHALL CONSTITUTE FULL ACCEPTANCE OF EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO THE CITY ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
12. THE CONTRACTOR SHALL ENACT ALL MEASURES TO PROTECT AND SAFEGUARD WORKERS AND THE GENERAL PUBLIC FROM INJURY DURING THE ENTIRE TIME OF CONSTRUCTION. MAINTAIN THE JOB SITE IN AN ORDERLY, CLEAN MANNER THROUGHOUT THE COURSE OF WORK AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE. REMOVE AND RELOCATE ALL OBSTRUCTIONS FROM THE JOB SITE EACH DAY, AND COMPLY WITH ALL APPLICABLE CODES. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH REGULATION OF THE U.S. DEPARTMENT OF LABOR, AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS' CONSTRUCTION SAFETY ORDERS." THE CITY ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS' AND SUBCONTRACTORS COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR OR WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS AND ALL OTHER SAFETY ORDERS. THE CONTRACTOR SHALL MAINTAIN ADEQUATE LIABILITY INSURANCE AND SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
13. ALL CONCRETE AND ASPHALT CONCRETE PAVEMENT TO BE REMOVED SHALL BE REMOVED UTILIZING A SAW CUT (MINIMUM CUT DEPTH 1 1/2" AND/OR OTHER METHODS AS APPROVED BY THE CITY ENGINEER.
14. CONTRACTOR SHALL POPTHOLE TO VERIFY LOCATION AND DEPTH OF UTILITIES.
15. THE CONTRACTOR SHALL ADJUST ALL UTILITY VALVE BOXES, MANHOLES, ETC. TO GRADE UPON COMPLETION OF PAVING. CONCRETE PAVEMENT SHALL BE USED TO PATCH AROUND RAISED UTILITIES IN CONCRETE STREETS, ASPHALT CONCRETE PAVEMENT IN ASPHALT CONCRETE STREETS. IF PULLBOXES (WATER, GAS, ETC) ARE DAMAGED, CONTRACTOR SHALL REPLACE THEM IN KIND.
16. EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. RELOCATION OR REMOVAL OF ANY EXISTING UTILITIES NOT COVERED BY THESE SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE UTILITY OWNERS AT THE EXPENSE OF THE CONTRACTOR.
17. CONTRACTOR SHALL PROTECT IN PLACE ANY MAIL BOXES, IRRIGATION SYSTEM, ELECTRICAL CONDUIT, CABLE CONDUIT OR UTILITY LINE. IF DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE IN KIND.
18. THE CONTRACTOR SHALL REPLACE IN KIND, TO THE SATISFACTION OF THE CITY ENGINEER, ANY PAVING, CURB AND GUTTER OR OTHER IMPROVEMENTS CUT, REMOVED, OR DAMAGED IN CONDUCTION WITH THIS PROJECT.
19. THE 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, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY, THE CITY ENGINEER AND THEIR REPRESENTATIVE, HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OR THE CITY ENGINEER.



FISCAL YEAR 2018-2019 ANNUAL STREET RESURFACING PROJECT

JOB NO. 7597

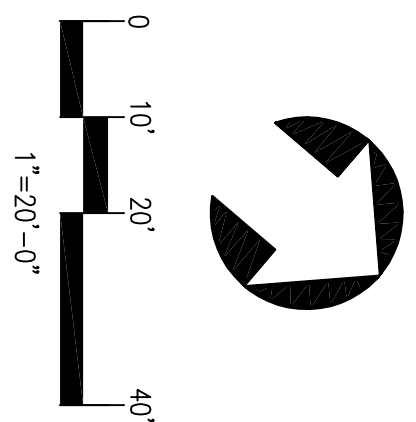
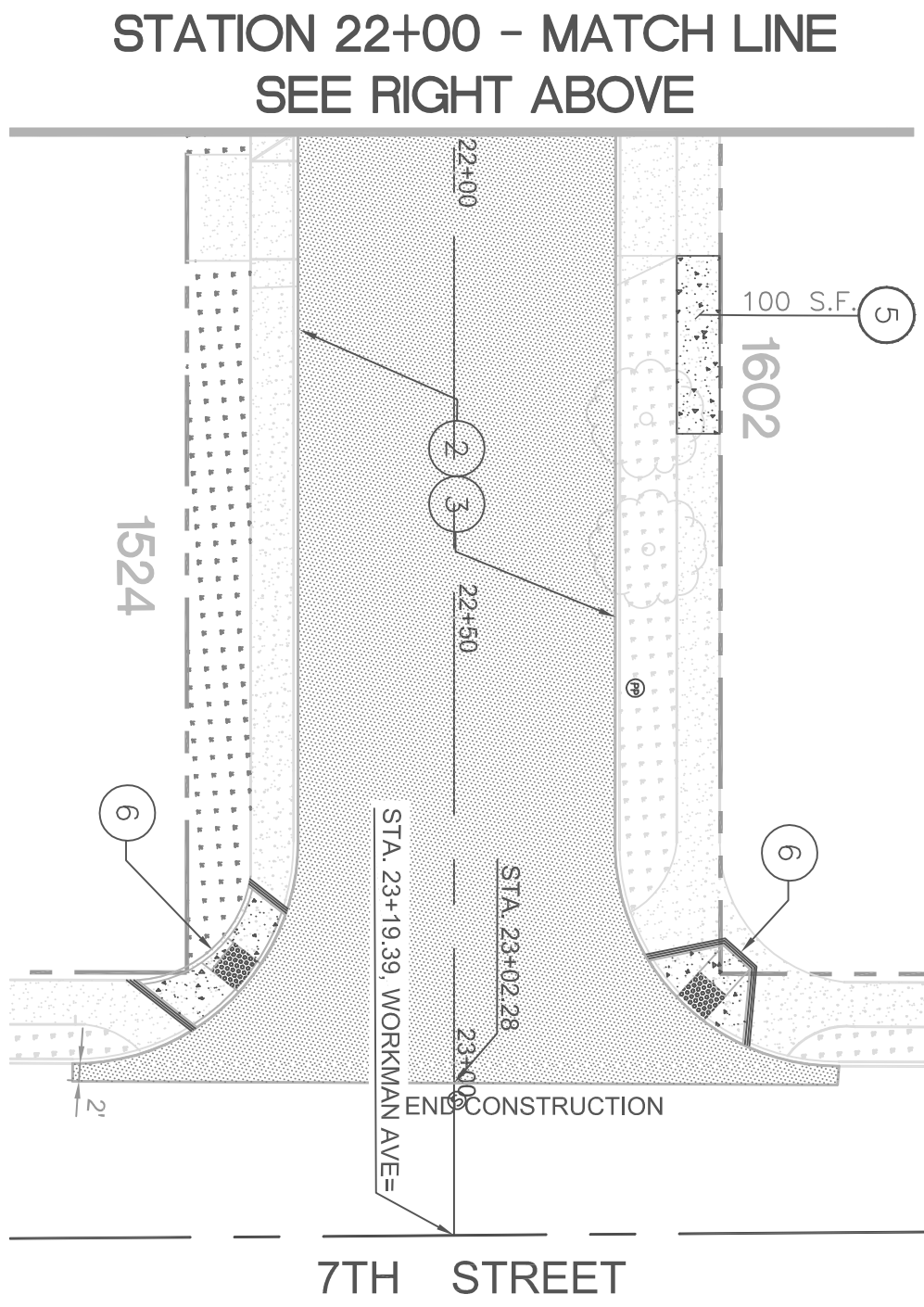
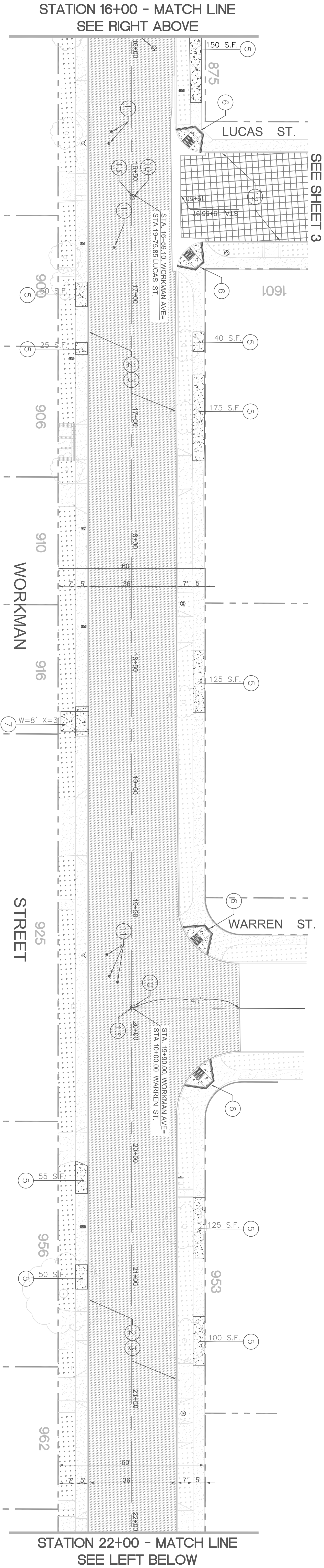
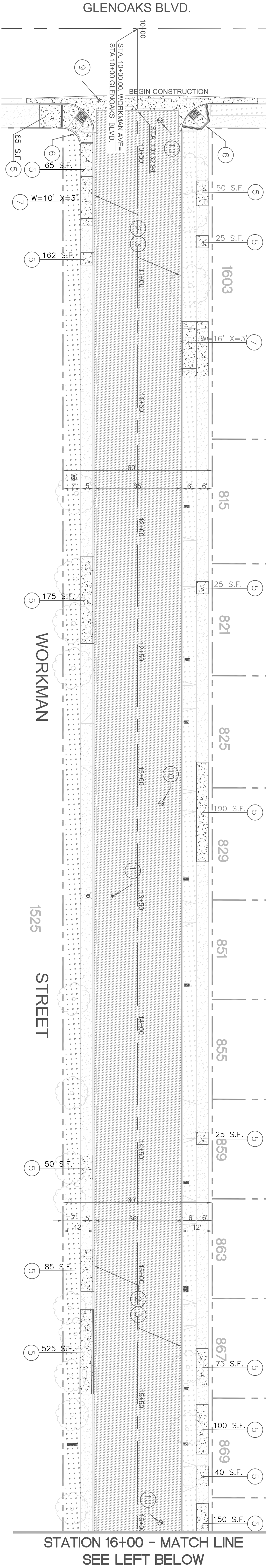
PLAN NO. P-726

WATER NOTES

20. THE CONTRACTOR SHALL PROVIDE DUST CONTROL AND TRAFFIC CONTROL AT ALL TIMES TO THE SATISFACTION OF THE CITY ENGINEER AND SHALL BE IN COMPLIANCE WITH SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (A.Q.M.D.) RULE 403 FOR MINIMIZING DUST CONTROL.
21. BARRICADES WITH FLASHING LIGHTS ARE TO BE MAINTAINED ON ALL OBSTRUCTIONS WITHIN EXISTING STREET RIGHT-OF-WAYS AT ALL TIMES. CONSTRUCTION WARNING SIGNS AND FLAGMEN ARE TO BE PRESENT AT THE JOB SITE.
22. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 811 TWO (2) DAYS PRIOR TO BEGINNING WORK.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL, IF ANY, EXISTING SURVEY MONUMENTS.
24. THE CITY SHALL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PROJECT ENGINEER.
25. THE CITY INSPECTOR WILL LAYOUT THE PRECISE LOCATION OF ALL CONCRETE WORK, AC PATCHING AND OTHER IMPROVEMENTS SHOWN ON THE PLANS. THESE IMPROVEMENTS AS SHOWN MAY VARY SLIGHTLY AS TO LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND QUANTITIES AS MARKED OUT BY THE CITY INSPECTOR.
26. CONTRACTOR SHALL PROVIDE ALL NECESSARY MEANS TO AVOID TRACKING ASPHALT OIL ON EXISTING ASPHALT PAVEMENT OR CONCRETE PAVEMENT DURING OPERATIONS. SEE TECHNICAL SPECIFICATIONS FOR CONDITIONS.
27. CONTRACTOR SHALL BACKFILL AND RESEED LANDSCAPE AS IMPROVEMENT.
28. CONTRACTOR SHALL INSTALL TEMPORARY ASPHALTIC CONCRETE PAVEMENT AS INDICATED BY THE ENGINEER OR INSPECTOR. THE ENGINEER OR INSPECTOR SHALL DETERMINE THE EXACT LOCATION WHERE TEMPORARY RESURFACING WILL BE NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF CONCRETE WITH PERMANENT ASPHALTIC CONCRETE, PORTLAND CEMENT CONCRETE, EARTH OR OTHER MATERIALS THAT ARE TO BE REMOVED FROM THE SITE. ALL COSTS INVOLVED IN COMPLYING WITH THE ABOVE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEANING AND GRUBBING.

SEWER NOTES

1. ALL PIPE MATERIAL SHALL BE DUCTILE IRON PIPE OR OTHER APPROVED MATERIAL BY THE CITY.
2. WATER MAIN SHALL BE PRESSURE TESTED AND CHLORINATED IN COMPLIANCE WITH THE CITY'S WATER UTILITY STANDARD SPECIFICATION. THE MAIN SHALL MEET OR EXCEED THE PRESSURE AND CHLORINATION REQUIREMENTS PRIOR TO CONNECTION TO THE CITY'S WATER SYSTEM. DISINFECTION OF ENTIRE PIPELINE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C601. ALL MAINS INSTALLED ARE TO BE PRESSURE TESTED TO 150PSI. ALL TESTS TO CONFORM TO THE SPECIFICATIONS FOUND IN THE LATEST EDITION OF AWWA STD C-601.
3. THE CITY SHALL REVIEW AND APPROVE ALL MATERIALS PRIOR TO INSTALLATION.
4. SHUT DOWNS SHALL BE COORDINATED WITH THE CITY. ALL EXISTING UTILITIES SHALL BE TAKEN CARE OF BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR THE OPERATION BY THE CITY. ONCE THE NEW WATER MAIN IS CONNECTED TO THE SYSTEM.
5. EXACT LOCATION AND ELEVATION OF CONNECTION TO EXISTING WATER MAINS SHALL BE DETERMINED BY CONTRACTOR AT TIME OF CONSTRUCTION.
6. ALL NEW PIPELINE/VERTICAL DERIVS TO BE ADJUSTED ACCORDING TO FIELD CONDITIONS BY FIELD ENGINEER.
7. NO TRENCH SHALL BE BACK FILLED UNTIL INSPECTED BY A CITY OF SAN FERNANDO REPRESENTATIVE.
8. ALL TRENCHING AND SHORING SHALL CONFORM TO CAL OSHA STANDARDS.
8. THRUST BLOCKS TO BE LOCATED AT ALL BENDS, TAPPING STEPS, CROSSES AND TEES AS NOTED PER THRUST BLOCK SPECIFICATIONS AND CITY STANDARD PLATES 17, 17A, 18, & 18A. (WHERE APPLICABLE).
10. CONTRACTOR IS RESPONSIBLE TO PROTECT ALL UTILITIES IN PLACE SHOWN AND NOT SHOWN.
11. EXACT RELOCATION AND/OR INSTALLATION OF ALL FIRE HYDRANTS TO BE DETERMINED IN FIELD BY THE ENGINEER. LOCATION SHALL AVOID CONFLICT WITH EXISTING UTILITIES.
12. ALL THRUST BLOCKS MUST BE CURED FOR A MINIMUM OF 48-HRS PRIOR TO ANY PRESSURE TESTING.
13. UNDER NO CIRCUMSTANCES SHALL PRESSURE TESTING BE APPLIED AGAINST EXISTING OR NEW VALVES.
14. NO FINAL CONNECTIONS SHALL BE MADE TO THE EXISTING DISTRIBUTION SYSTEM UNTIL ALL BACTERIAL TESTS HAVE PASSED.
15. CONTRACTOR IS TO LOWER SERVICES WITH LESS THAN 18" OF COVER TO 24" OF COVER.
16. ALL EXISTING STEEL OR PLASTIC WATER SERVICES SHALL BE REPLACED WITH THE SAME SIZE TYPE K COPPER TUBING (1" MINIMUM)
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- 78



- LEGENDS**
- W — WATER LINE
 - ⊙ — WATER VALVE
 - ⊙ — WATER HYDRANT
 - ⊙ — SEWER MANHOLE
 - ⊙ — PROPOSED TREE
 - ⊙ — STREET SIGN
 - ⊙ — WATER METER BOX
 - ⊙ — GAS VALVE
 - ⊙ — GAS METER
 - ⊙ — GAS LINE
 - ⊙ — PROPOSED COLD MILL AND OVERLAY
 - ⊙ — SLURRY SEAL
 - ⊙ — R/W LINE
 - ⊙ — STORMDRAIN MANHOLE
- CONSTRUCTION NOTES**
- PROTECT IN PLACE.
 - COLD MILL 1.5-INCH THICK EXISTING PAVEMENT.
 - CONSTRUCT 1.5-INCH THICK PAVEMENT ARHM-GG-C (PG 64-16).
 - CONSTRUCT SPEED HUMP PER DETAIL ON SHEET 1.
 - REMOVE EXISTING AND CONSTRUCT 4-INCH THICK PCC SIDEWALK PER SPPWC STD. PLAN 113-2.
 - REMOVE EXISTING RAMP/SIDEWALK AND CONSTRUCT PCC CURB RAMP PER SPPWC STD. PLAN 111-5 WITH TRUNCATED DOKES.
 - REMOVE EXISTING AND CONSTRUCT 4-INCH THICK PCC DRIVEWAY APPROACHES PER SPPWC STD. PLAN 110-2.
 - REMOVE, DISPOSE AND CONSTRUCT PCC 8-INCH CURB AND 24-INCH CUTTER PER SPPWC STD. PLAN 120-2.
 - CONSTRUCT PCC LONGITUDINAL CROSS GUTTER PER SPPWC STD. PLAN 122-2.
 - ADJUST MANHOLE FRAME AND COVER TO GRADE PER SPPWC STD. PLAN 205-2.
 - ADJUST EXISTING WATER/GAS VALVE GAN AND LID OR WATER/GAS METER BOX TO GRADE.
 - CONSTRUCT SLURRY SEAL TYPE 2.
 - RE-ESTABLISH EXISTING STREET MONUMENTATION.

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NUMBER	DATE	INITIALS	APPROV.	

SAN FERNANDO PUBLIC WORKS DEPARTMENT

YING KWAN, P.E., CONSULTING CITY ENGINEER, RCE 42418

DATE

CH2M HILL CONSULTING CIVIL ENGINEERS

PLANS PREPARED UNDER THE SUPERVISION OF: JOAQUIN CERVANTES, JR., P.E.

DATE: JC 4/20/2017

DESIGN BY: JC 4/20/2017

DRAWN BY: DC 4/20/2017

CHECKED BY: CA 5/30/2017

2018-2019 ANNUAL STREET RESURFACING PROJECT

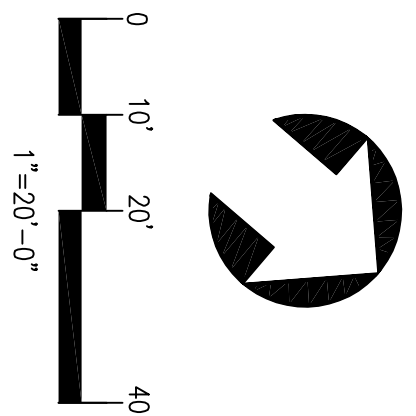
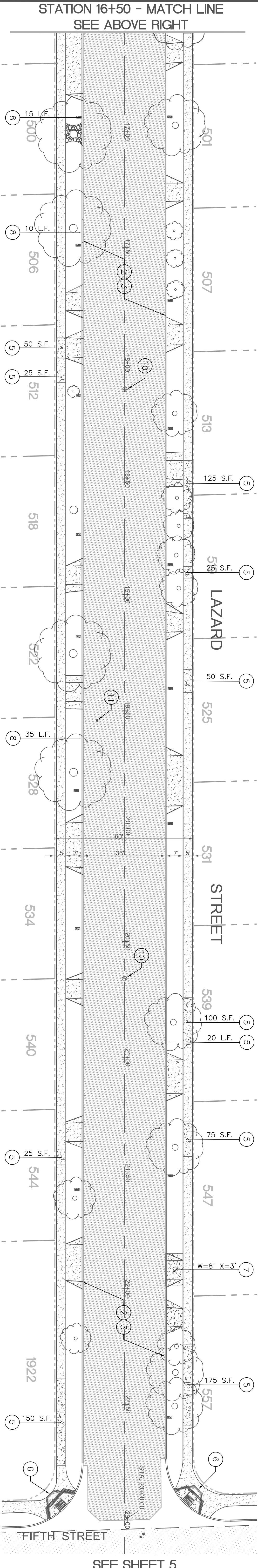
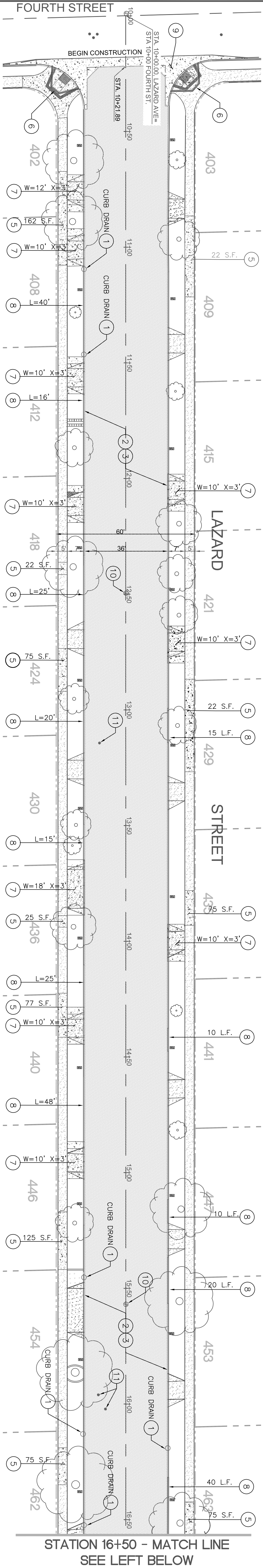
WORKMAN STREET

FROM GLENOAKS BLVD TO 7TH STREET

CITY OF SAN FERNANDO

PLAN NO. **P-726**


SHEET **2** OF 22



- LEGENDS**

W	.....	WATER LINE
⊗	.....	WATER VALVE
⊙	.....	WATER HYDRANT
⊖	.....	SEWER MANHOLE
⊕	.....	STREET SIGN
○	.....	PROPOSED TREE
W	.....	WATER METER BOX
⊙	.....	GAS VALVE
⊖	.....	GAS METER
G	.....	GAS LINE
.....	.....	PROPOSED PCC
.....	.....	PROPOSED COLD MILL AND OVERLAY
.....	.....	SLURRY SEAL
.....	.....	R/W LINE
Ⓢ	.....	STORMDRAIN MANHOLE
- CONSTRUCTION NOTES**


 - PROTECT IN PLACE.
 - COLD MILL, 1.5-INCH THICK EXISTING PAVEMENT.
 - CONSTRUCT 1.5-INCH THICK PAVEMENT ARHW-GG-C (PG 64-16).
 - CONSTRUCT SPEED HUMP PER DETAIL ON SHEET 1.
 - REMOVE EXISTING AND CONSTRUCT 4-INCH THICK PCC SIDEWALK PER SPWC STD. PLAN 113-2.
 - REMOVE EXISTING RAMP/SIDEWALK AND CONSTRUCT PCC CURB RAMP PER SPWC STD. PLAN 111-5 WITH TRIANGULAR DOWNS.
 - REMOVE EXISTING AND CONSTRUCT 4-INCH THICK PCC DRIVEWAY APPROACHES PER SPWC STD. PLAN 110-2.
 - REMOVE, DISPOSE AND CONSTRUCT PCC 8-INCH CURB AND 24-INCH GUTTER PER SPWC STD. PLAN 120-2.
 - CONSTRUCT PCC LONGITUDINAL CROSS GUTTER PER SPWC STD. PLAN 122-2.
 - ADJUST MANHOLE FRAME AND COVER TO GRADE PER SPWC STD. PLAN 205-2.
 - ADJUST EXISTING WATER/GAS VALVE CAV AND LID OR WATER/GAS METER BOX TO GRADE.
 - CONSTRUCT SLURRY SEAL TYPE 2.
 - RE-ESTABLISH EXISTING STREET MONUMENTATION.



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BENCH MARK:



SAN FERNANDO
PUBLIC WORKS DEPARTMENT

YING KWAN, P.E., CONSULTING CITY ENGINEER, RCE 42418

DATE



CH2M HILL
CONSULTING CIVIL ENGINEERS

PLANS PREPARED UNDER THE SUPERVISION OF:
JOAQUIN CERVAANTES, JR., P.E.

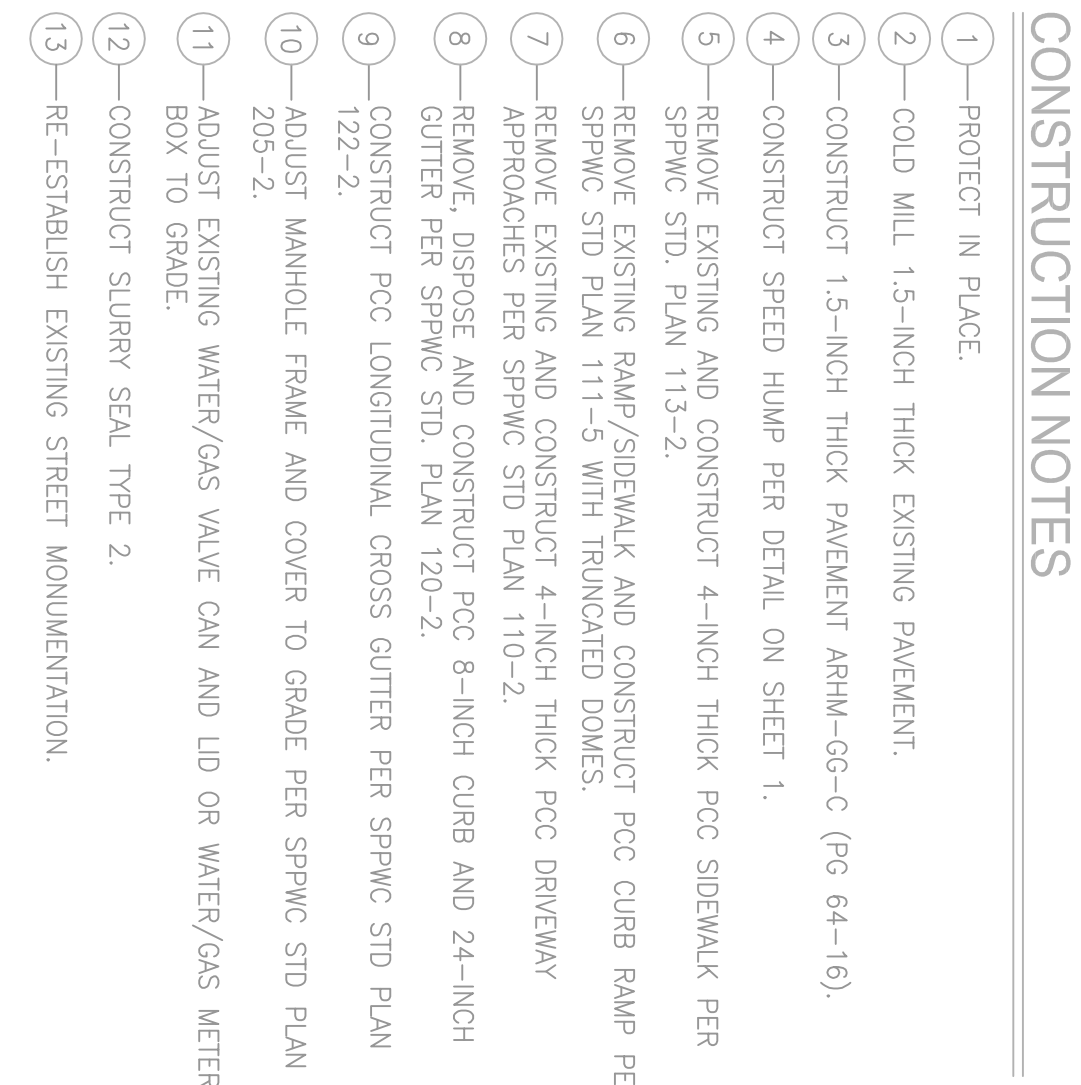
DATE:
JC 4/20/2017
DC 4/20/2017
CA 5/30/2017

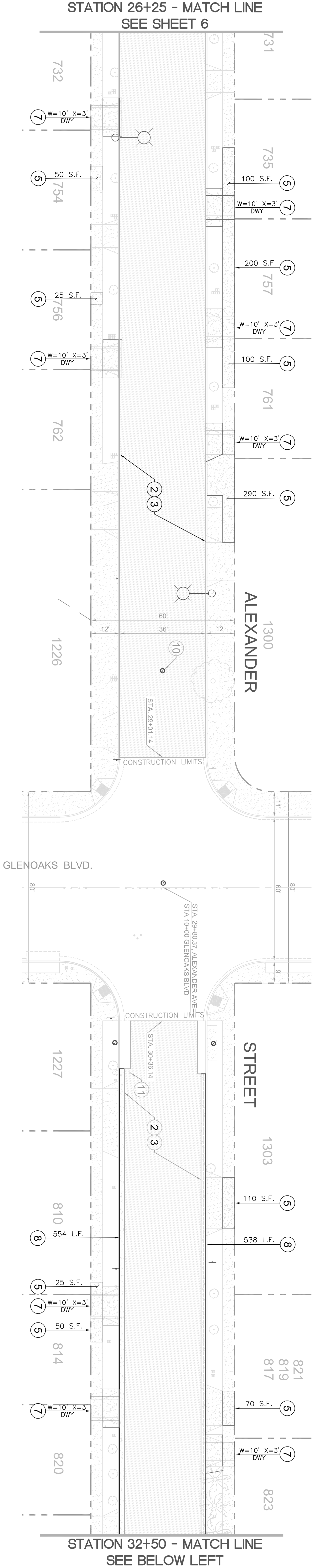
2018-2019 ANNUAL STREET RESURFACING PROJECT

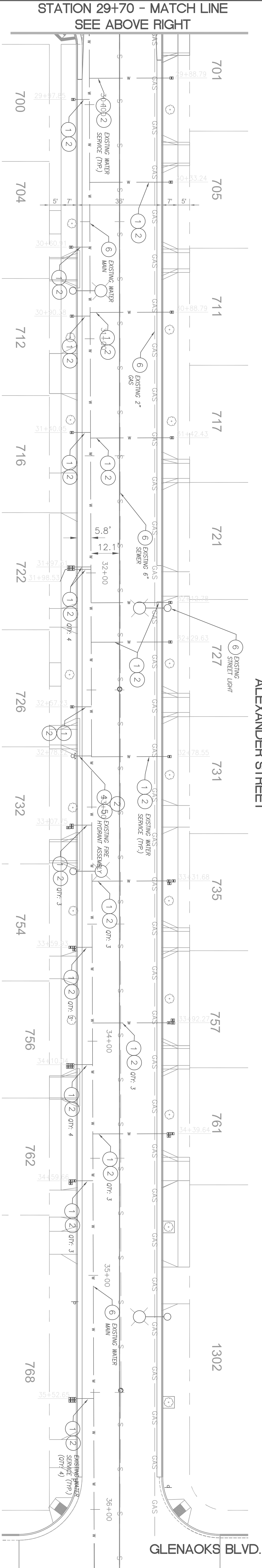
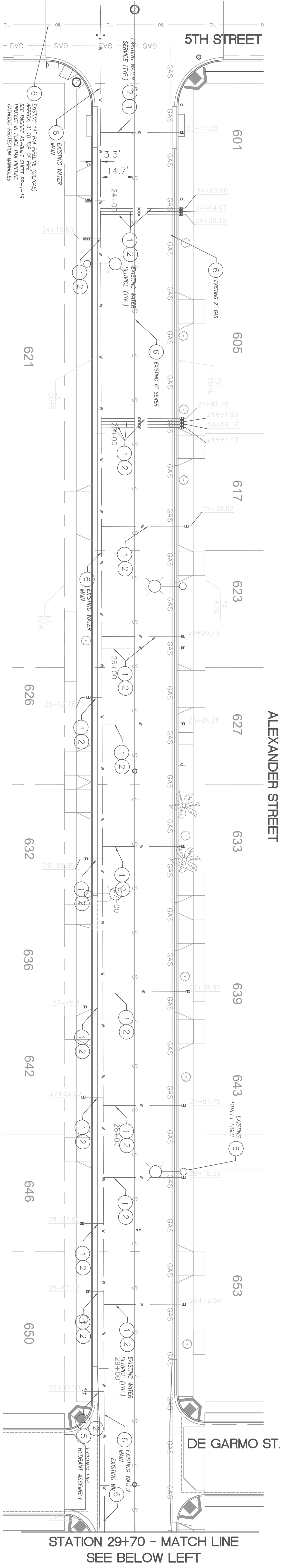
LAZARD STREET
FROM FOURTH STREET TO GLENDAKS BLVD

PLAN NO.
P-726

SHEET **4** OF 22



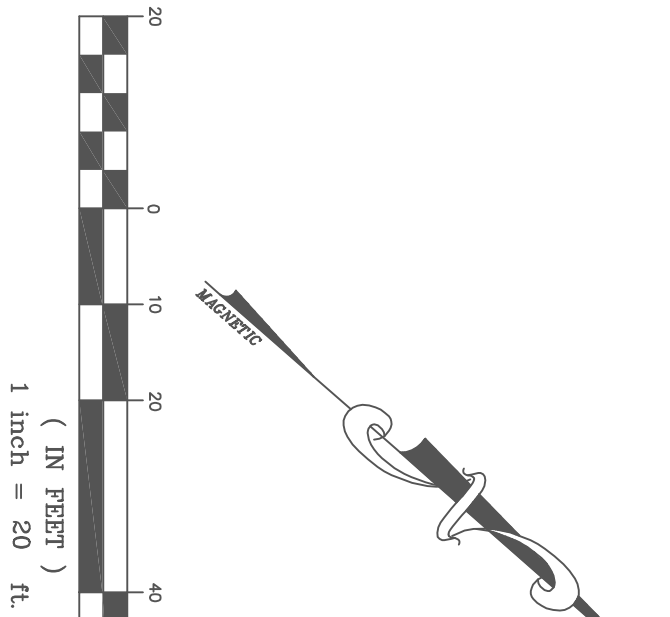





WATER CONSTRUCTION NOTES:

- 1 REMOVE EXISTING WATER SERVICE & INSTALL 1" WATER SERVICE & METER BOX PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 19 AND PROJECT SPECIFICATIONS. 56" MINIMUM COVER.
- 2 REPLACE AC PAVEMENT, BASE & BACKFILL PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 3 AND PROJECT SPECIFICATIONS.
- 3 REMOVE EXISTING AND INSTALL 6" RESILIENT WEDGE GATE VALVE PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 8 AND PROJECT SPECIFICATIONS.
- 4 REMOVE EXISTING & INSTALL FIRE HYDRANT ASSEMBLY PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 11 AND PROJECT SPECIFICATIONS.
- 5 INSTALL THRUST BLOCK PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 17, 17A, 18 AND 18A.
- 6 PROTECT IN PLACE

WATER SERVICE LATERAL REPLACEMENT






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R E V I S I O N S		
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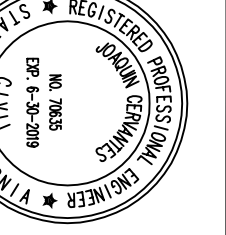
BENCH MARK:



PUBLIC WORKS DEPARTMENT

YING KWAN P.E., CONSULTING CITY ENGINEER, RCE 42418

DATE



CONSULTING CIVIL ENGINEERS

19600 JAMES RD., SUITE B13
VAN NUYS, CA 91411
(818) 997-9573 / (818) 997-9574 FAX

PLANS PREPARED UNDER THE SUPERVISION OF:

DESIGN BY: JC 4/20/2017
DRAWN BY: DC 4/20/2017
CHECKED BY: CA 5/20/2017

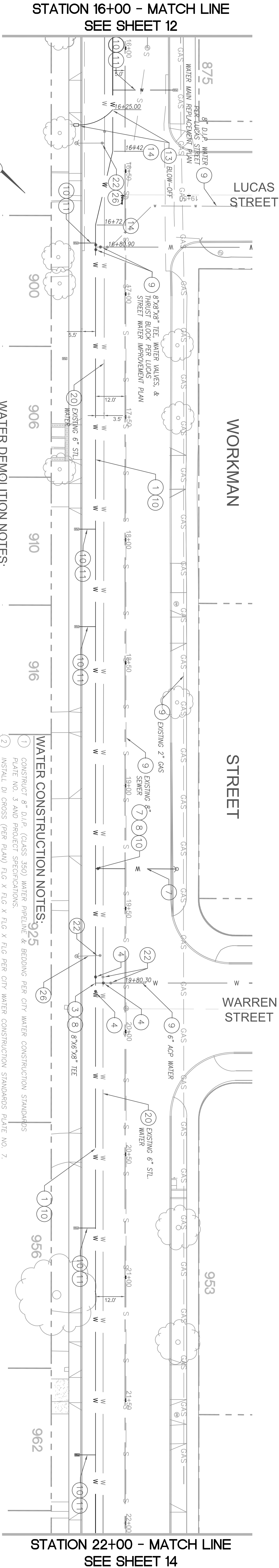
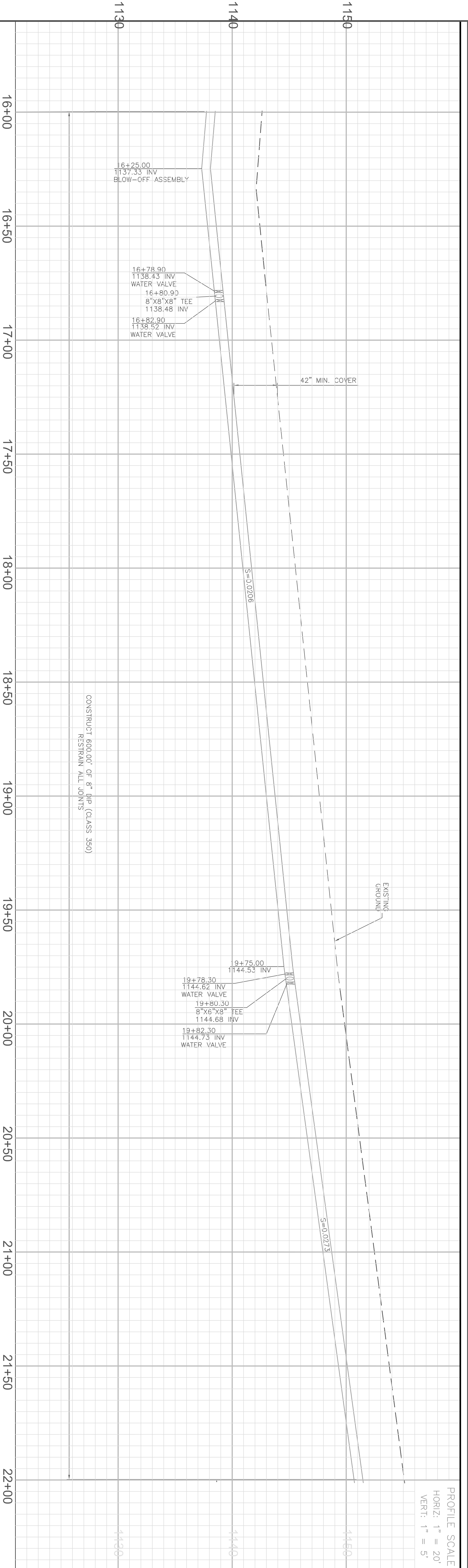
2018-2019 ANNUAL STREET RESURFACING PROJECT

ALEXANDER STREET
FROM FIFTH STREET TO GLENAOKS BOULEVARD

CITY OF SAN FERNANDO

PLAN NO.
P-726

SHEET 8 OF 22



WATER DEMOLITION NOTES:

- 20 ABANDON EXISTING WATERLINE (SIZE/TYPE PER PLAN) AND INTERFERING SERVICES PER CITY WATER CONSTRUCTION STANDARDS & PROJECT SPECIFICATIONS.
- 21 ABANDON EXISTING 8"x8"x8" DI TEE PER CITY WATER CONSTRUCTION STANDARDS & PROJECT SPECIFICATIONS.
- 22 ABANDON EXISTING 6" GATE VALVE PER CITY WATER CONSTRUCTION STANDARDS & PROJECT SPECIFICATIONS.
- 23 ABANDON EXISTING 8"x6"x6" DI TEE PER CITY WATER CONSTRUCTION STANDARDS & PROJECT SPECIFICATIONS.
- 24 REMOVE EXISTING DI CROSS PER CITY WATER CONSTRUCTION STANDARDS & PROJECT SPECIFICATIONS.
- 25 ABANDON EXISTING 8" GATE VALVE PER CITY WATER CONSTRUCTION STANDARDS & PROJECT SPECIFICATIONS.
- 26 REMOVE EXISTING HYDRANT AND SALVAGE TO THE CITY

WATER CONSTRUCTION NOTES: 925

- 1 CONSTRUCT 8" D.I.P. (CLASS 350) WATER PRELINE & BEDDING PER CITY WATER CONSTRUCTION STANDARDS
- 2 INSTALL DI CROSS (PER PLAN) FLG X FLG X FLG X FLG PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 7.
- 3 INSTALL 8" GATE VALVE FLG X FLG X FLG PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 7.
- 4 INSTALL 8"x6"x6" DI FLG X FLG X FLG TEE PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 7.
- 5 INSTALL 6" GATE VALVE FLG X MU PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 29A & PLATE NO. 8.
- 6 CONSTRUCT FIRE HYDRANT LINE AND ASSEMBLY AND CONNECT TO MAIN PER CITY WATER CONSTRUCTION STANDARDS AND SPECIFICATIONS PLATE NO. 11.
- 7 INSTALL THRUST BLOCK PER CITY STANDARDS AND SPECIFICATIONS PLATE NO. 17, 17A, 18 AND 18A.
- 8 PROTECT IN PLACE
- 9 REPLACE AC PAVEMENT, BASE & BACKFILL PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 3 & PROJECT SPECIFICATIONS.
- 10 REMOVE EXISTING WATER SERVICE & INSTALL 1" WATER SERVICE AND WATER BOX PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 19 AND PROJECT SPECIFICATIONS. 36" MINIMUM COVER
- 11 INSTALL AIR AND VACUUM RELEASE VALVE ASSEMBLY PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 14.
- 12 INSTALL BLOW-OFF ASSEMBLY PER CITY WATER CONSTRUCTION STANDARDS PLATE NO. 12.
- 13 CONSTRUCT 8" 22 1/2" DI MU X MU BEND AND RESTRAINED JOINT PER SAN FERNANDO WATER CONSTRUCTION STANDARDS.
- 14

WATER MAIN REPLACEMENT

811

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REVISIONS

NUMBER	DATE	INITIALS	APPRO.

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DATE

REGISTERED PROFESSIONAL ENGINEER
NO. 9002
EXPIRATION DATE 12/31/2020
CIVIL

PLANS PREPARED UNDER THE SUPERVISION OF:

DATE:

DESIGN BY: JC 4/20/2017

DRAWN BY: DC 4/20/2017

CHECKED BY: CA 5/20/2017

CONSULTING CIVIL ENGINEERS
15800 AVANT RD., SUITE B13
IRVINE, CA 92618
(949) 261-8414 FAX

2018-2019 ANNUAL STREET RESURFACING PROJECT

PLAN NO.

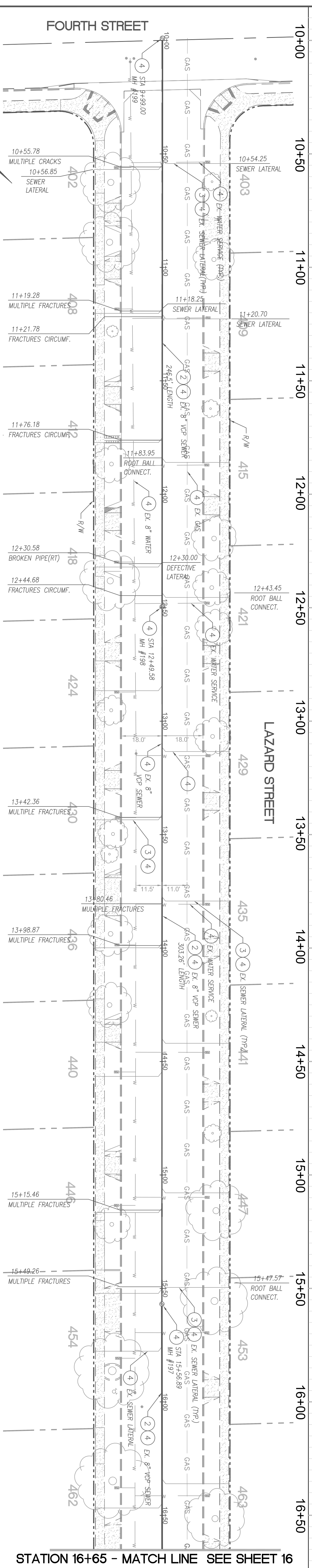
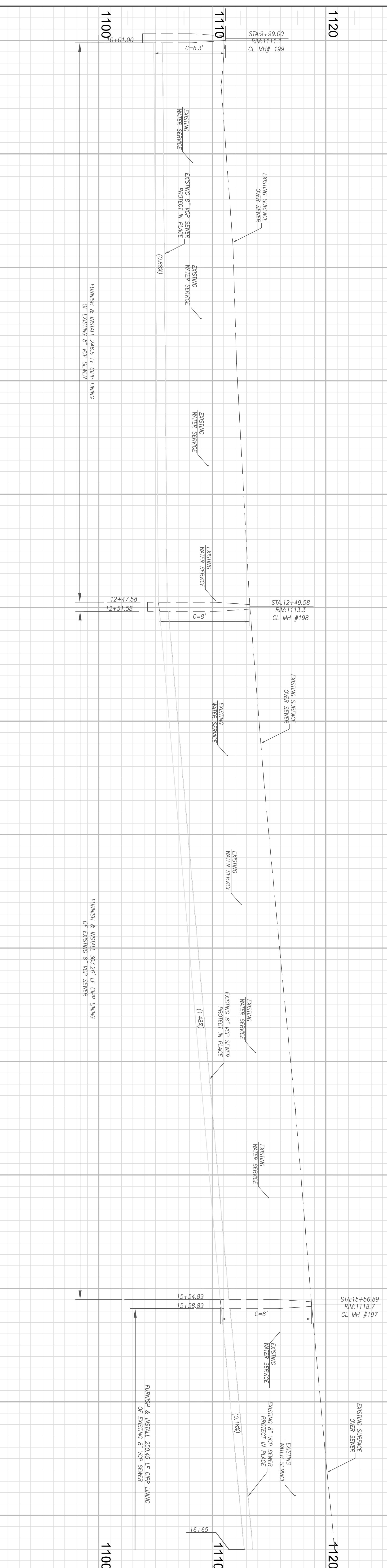
WORKMAN STREET
FROM GLENOAKS BLVD TO 7TH STREET

P-726

CITY OF SAN FERNANDO

SHEET 13 OF 22

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



CONSTRUCTION NOTES

1. FURNISH & INSTALL PIPE SLEEVE AND EXISTING 8" TOP SEWER MAIN PER PROJECT SPECIFICATIONS
2. FURNISH & INSTALL CURP LINING OF EXISTING 8" VCP OR CONCRETE SEWER MAIN PER PROJECT SPECIFICATIONS
3. REINSTATE EXISTING 6" V.C.P. HOUSE CONNECTION PER PROJECT SPECIFICATIONS
4. PROTECT EXISTING IN PLACE

SEWER IMPROVEMENTS

[illegible]

THE CITY OF
SAN FERNANDO
PUBLIC WORKS DEPARTMENT

YING KWAN, P.E., CONSULTING CITY ENGINEER, RCE 42418

DATE _____

PLANS PREPARED UNDER THE SUPERVISION OF: JACQUIN CERVANTES, JR., P.E.

Plans Prepared By: _____


DATE: _____

CHECKED BY: _____

DESIGN BY: JC 4/20/2017

DRAWN BY: DC 4/20/2017

CA 5/30/2017



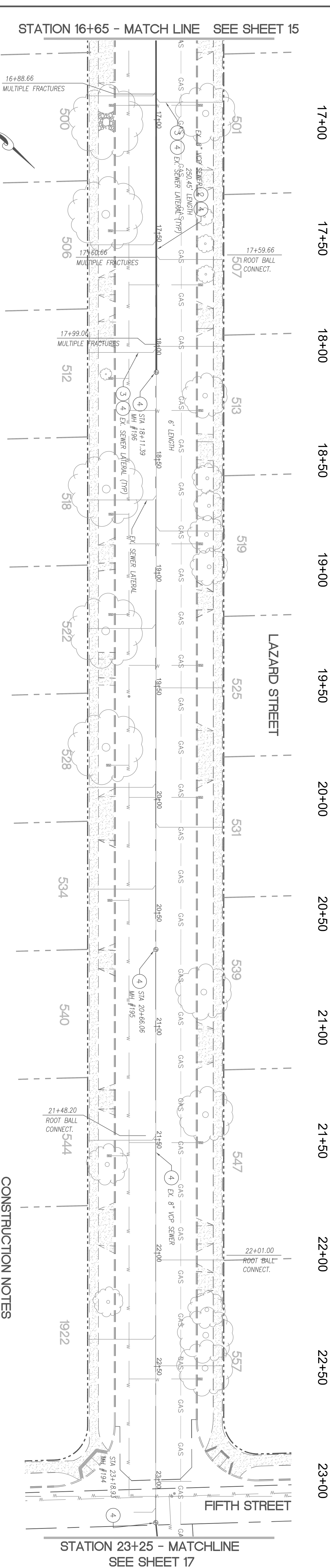
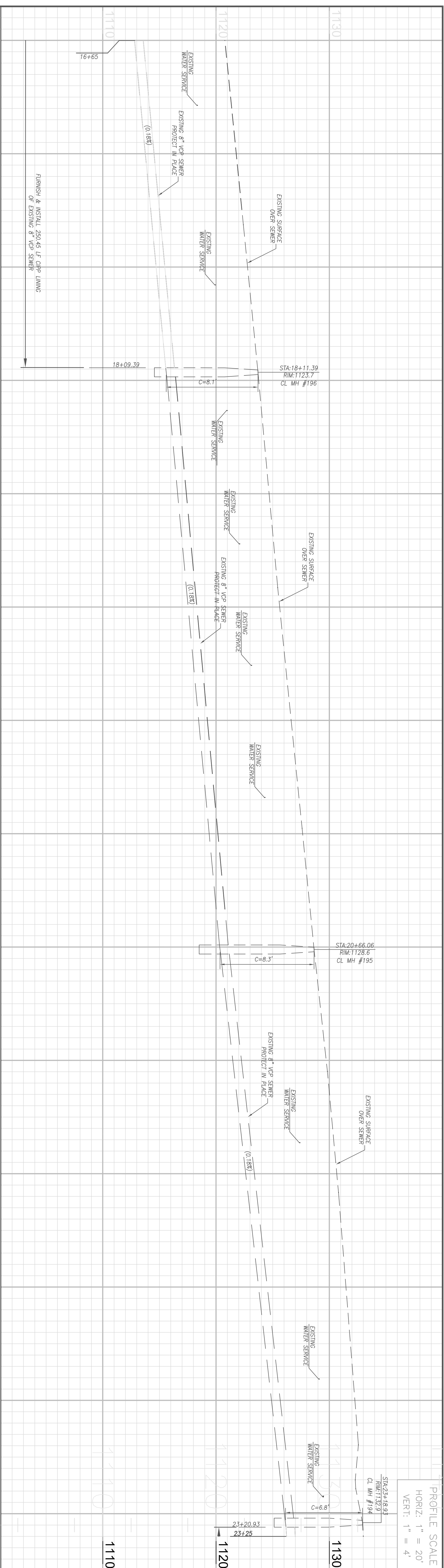


JCE
Engineering, Inc.
Land Development

CONSULTING CIVIL ENGINEERS

10860 BAYVIEW RD., SUITE B113
VICTORIA, B.C., V8N 6P8
(250) 367-0633 (toll free) 877-874-745X

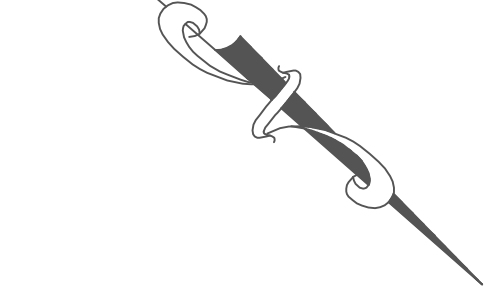
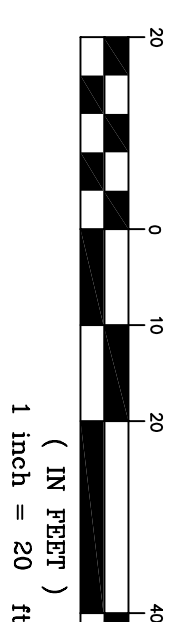
2018-2019 ANNUAL STREET RESURFACING PROJECT	PLAN NO.
LAZARD STREET FROM FOURTH STREET TO GLENOAKS BOULEVARD	P-726
CITY OF SAN FERNANDO	SHEET 15 OF 22




CONSTRUCTION NOTES

1. FURNISH & INSTALL PIPE SLEEVE INTO EXISTING 8" VCP SEWER MAIN PER PROJECT SPECIFICATIONS
2. FURNISH & INSTALL DIPP LINING OF EXISTING 8" VCP OR CONCRETE SEWER MAIN PER PROJECT SPECIFICATIONS
3. REINSTATE EXISTING 6" "C.P. HOUSE CONNECTION PER PROJECT SPECIFICATIONS
4. PROTECT EXISTING IN PLACE

SEWER IMPROVEMENTS



REVISIONS				BENCH MARK:	
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PUBLIC WORKS DEPARTMENT

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DATE _____



PLANS PREPARED UNDER THE SUPERVISION OF: _____ DATE: _____

J. B. CERVANTES, JR., P.E.

Plans Prepared By:



CER CONSULTING CIVIL ENGINEERS
18400 MARIN RD., SUITE B13
VAN NUYS, CA 91411
(818) 967-9675 / (818) 967-9674 FAX

DESIGN BY: JC 4/20/2017
DRAWN BY: DC 4/20/2017
CHECKED BY: CA 5/20/2017

2018-2019 ANNUAL STREET RESURFACING PROJECT

LAZARD STREET

FROM FOURTH STREET TO GLENOAKS BOULEVARD

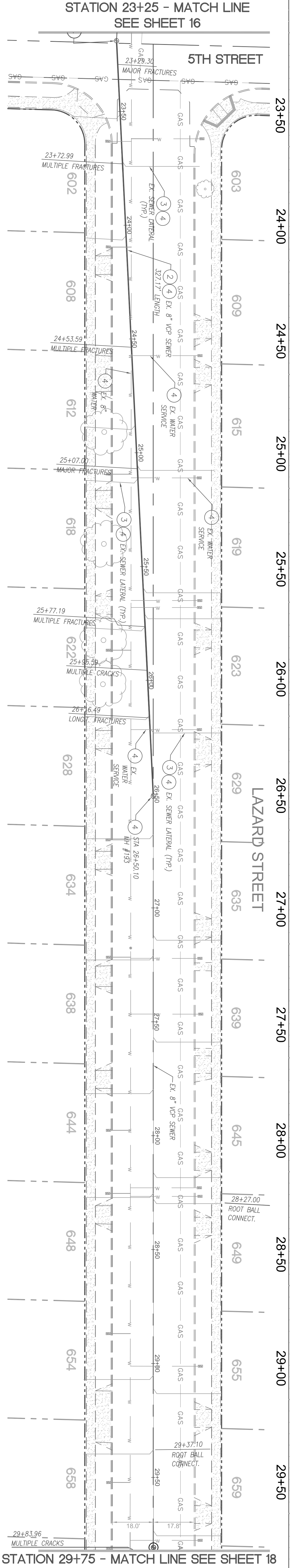
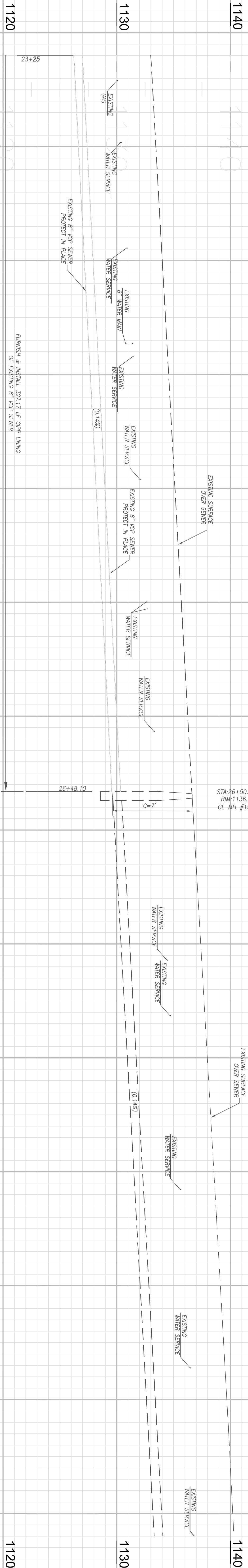
CITY OF SAN FERNANDO

PLAN NO.

P-726

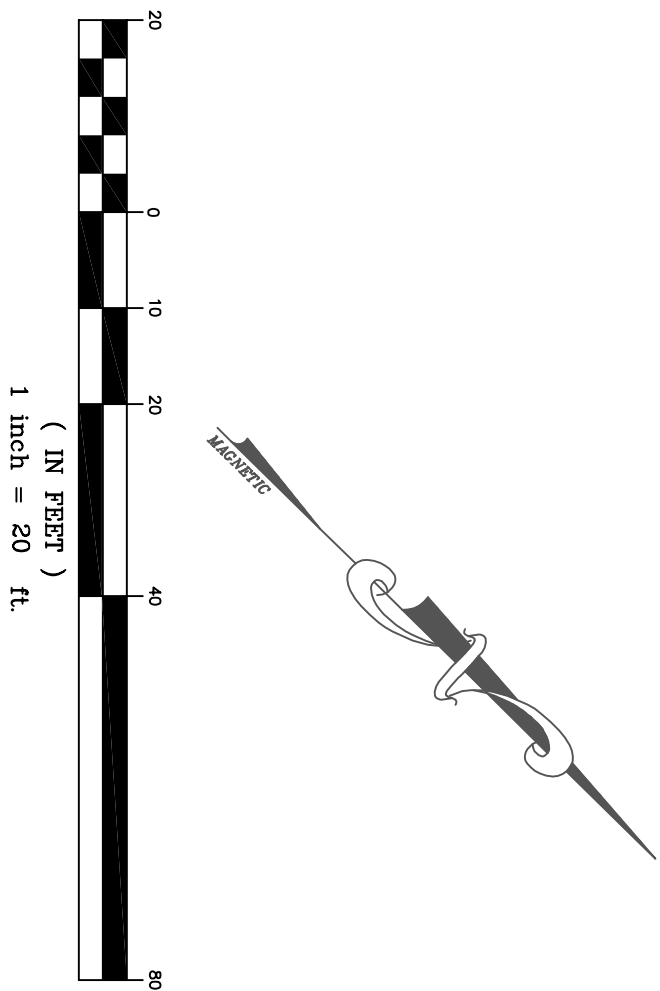
SHEET 16 OF 22

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



- CONSTRUCTION NOTES**
- 1 FURNISH & INSTALL PRE SLEEVE INTO EXISTING 8" VCP SEWER MAIN PER PROJECT SPECIFICATIONS
 - 2 FURNISH & INSTALL CIPP LINING OF EXISTING 8" VCP OR CONCRETE SEWER MAIN PER PROJECT SPECIFICATIONS
 - 3 REINSTATE EXISTING 6" VCP HOUSE CONNECTION PER PROJECT SPECIFICATIONS
 - 4 PROTECT EXISTING IN PLACE

SEWER IMPROVEMENTS



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SAN FERNANDO

PUBLIC WORKS DEPARTMENT

YING KHAU, P.E., CONSULTING CITY ENGINEER, REG. 42418

DATE

PLANS PREPARED UNDER THE SUPERVISION OF:

DATE:

DESIGN BY: JC 4/23/2017

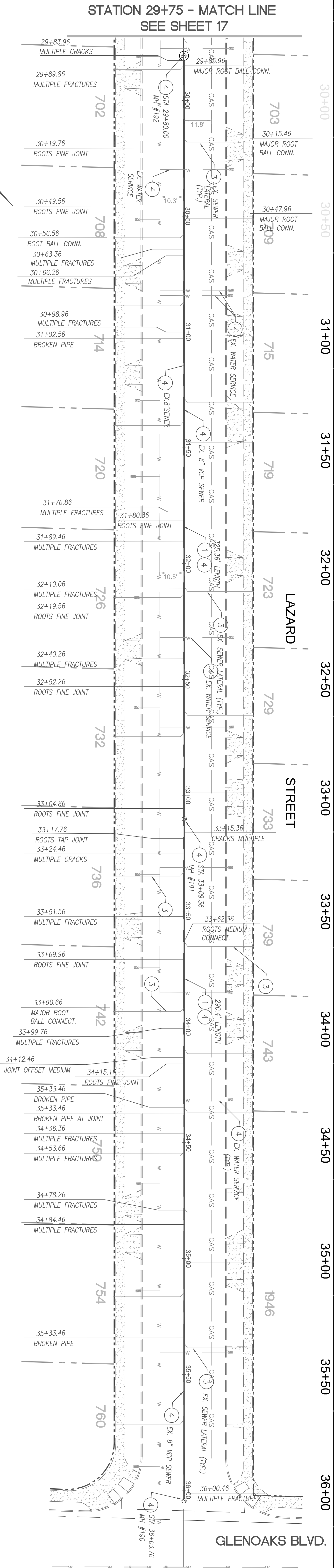
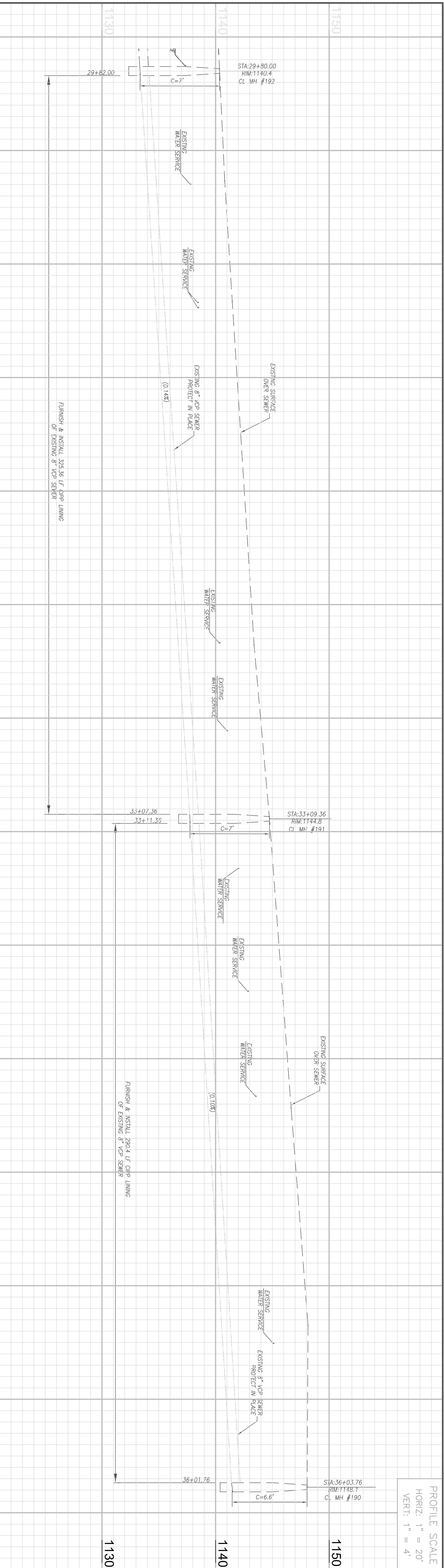
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2018-2019 ANNUAL STREET RESURFACING PROJECT

LAZARD STREET
FROM FOURTH STREET TO GLENOAKS BOULEVARD

PLAN NO.
P-726

SHEET 17 OF 22



- ## CONSTRUCTION NOTES
1. FURNISH & INSTALL PIPE SLEEVE INTO EXISTING 8" VCP SEWER MAIN PER PROJECT SPECIFICATIONS
 2. FURNISH & INSTALL CIPP LINING OF EXISTING 8" VCP OR CONCRETE SEWER MAIN PER PROJECT SPECIFICATIONS
 3. REINSTATE EXISTING 6" V.C.P. HOUSE CONNECTION PER PROJECT SPECIFICATIONS
 4. PROTECT EXISTING IN PLACE

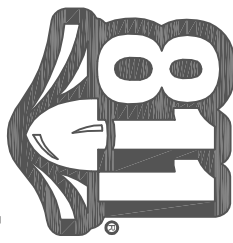
SEWER IMPROVEMENTS

2018-2019 ANNUAL STREET RESURFACING PROJECT

FROM FOURTH STREET TO GLENOAKS BOULEVARD

CITY OF SAN FERNANDO

SHEET 18 OF 22



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SAN FERNANDO
PUBLIC WORKS DEPARTMENT

YING KWAN, P.E., CONSULTING CITY ENGINEER, RCE 42418

DATE _____



PLANS PREPARED UNDER THE
JOAQUIN CERVANTES, JR., P.E.



DESIGN BY:	JC	4/20/2017
DRAWN BY:	DC	4/20/2017
CHECKED BY:	CA	5/30/2017

CONSULTING CIVIL ENGINEER
18800 AAMAR RD., SUITE B13
WALNUT, CA. 91789
(626) 667-8675 / (626) 667-8674 FAX

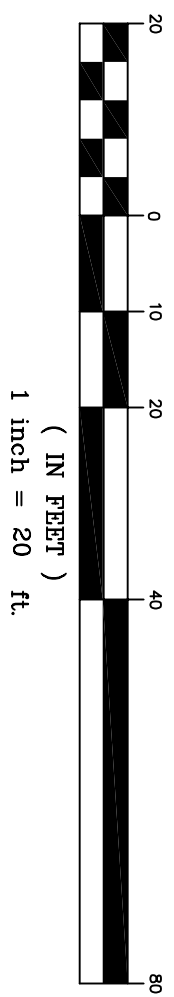
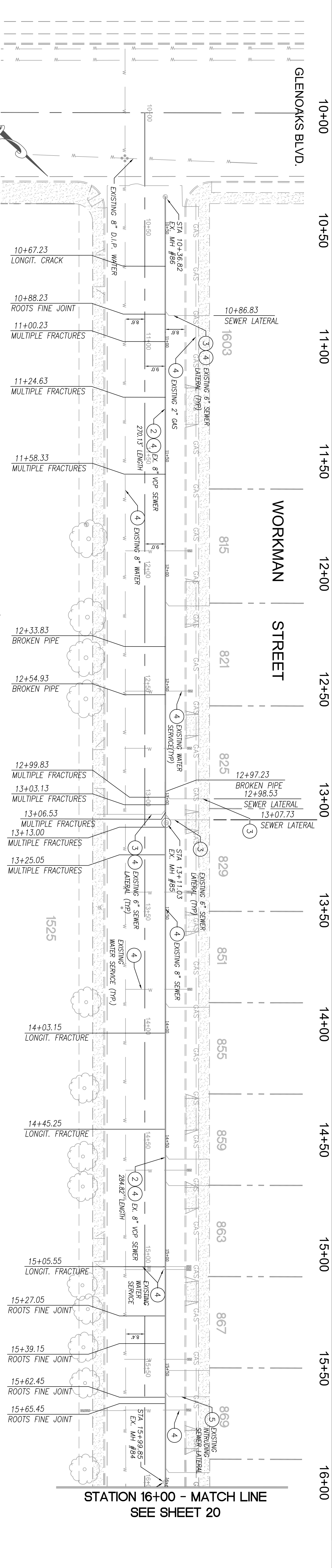
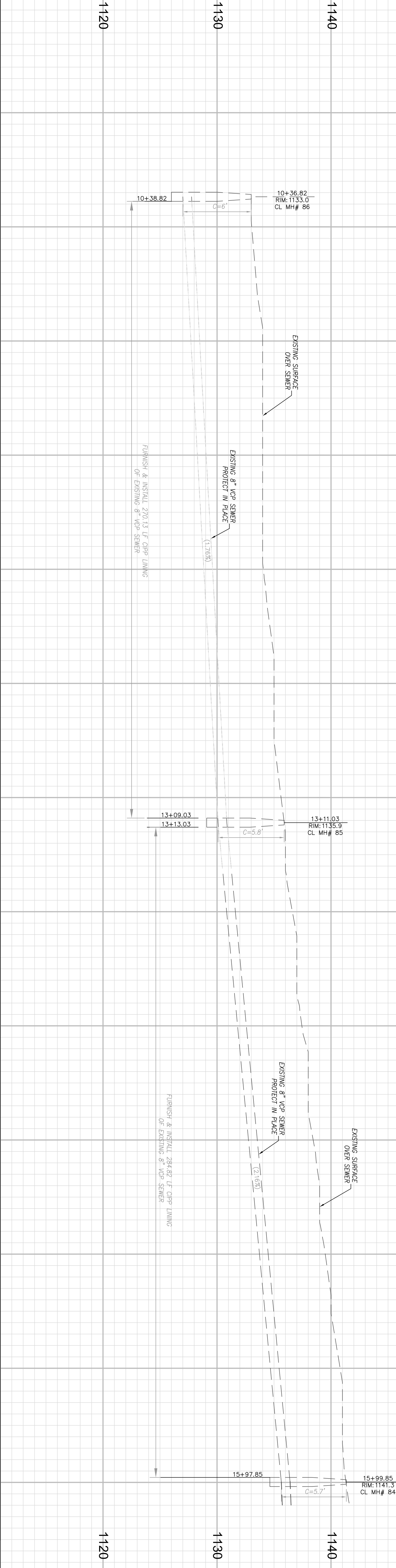
DRAWN BY:	DC	4/20/2017
CHECKED BY:	CA	5/30/2017

PLAN NO

P-726

SHEET 18 OF 22

PROFILE SCALE
HORZ: 1" = 20'
VERT: 1" = 4'



- ### CONSTRUCTION NOTES
- 1 FURNISH & INSTALL PIPE SLEEVE INTO EXISTING 8" VCP SEWER MAIN PER PROJECT SPECIFICATIONS
 - 2 FURNISH & INSTALL CIPP LINING OF EXISTING 8" VCP OR CONCRETE SEWER MAIN PER PROJECT SPECIFICATIONS
 - 3 RENSATE EXISTING 6" V.C.P. HOUSE CONNECTION PER PROJECT SPECIFICATIONS
 - 4 PROTECT EXISTING IN PLACE
 - 5 REMOVE PROTRUDING EXISTING SEWER LATERAL PRIOR TO CIPP LINING OR PIPE SLEEVE
- ### SEWER IMPROVEMENTS

811

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DATE

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APPROVAL

SAN FERNANDO

PUBLIC WORKS DEPARTMENT

YING KWAN, P.E., CONSULTING CITY ENGINEER, ROC 42416

DATE

REGISTERED PROFESSIONAL ENGINEER

NO. 235

STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

DATE:

DESIGN BY:

DATE:

DRAWN BY:

DATE:

CHECKED BY:

DATE:

CONSULTING CIVIL ENGINEERS

15669 EMERALD AVE., SUITE 100

IRVINE, CA 92614

(949) 867-8275 / (949) 867-8276 FAX

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15669 EMERALD AVE., SUITE 100

IRVINE, CA 92614

(949) 867-8275 / (949) 867-8276 FAX

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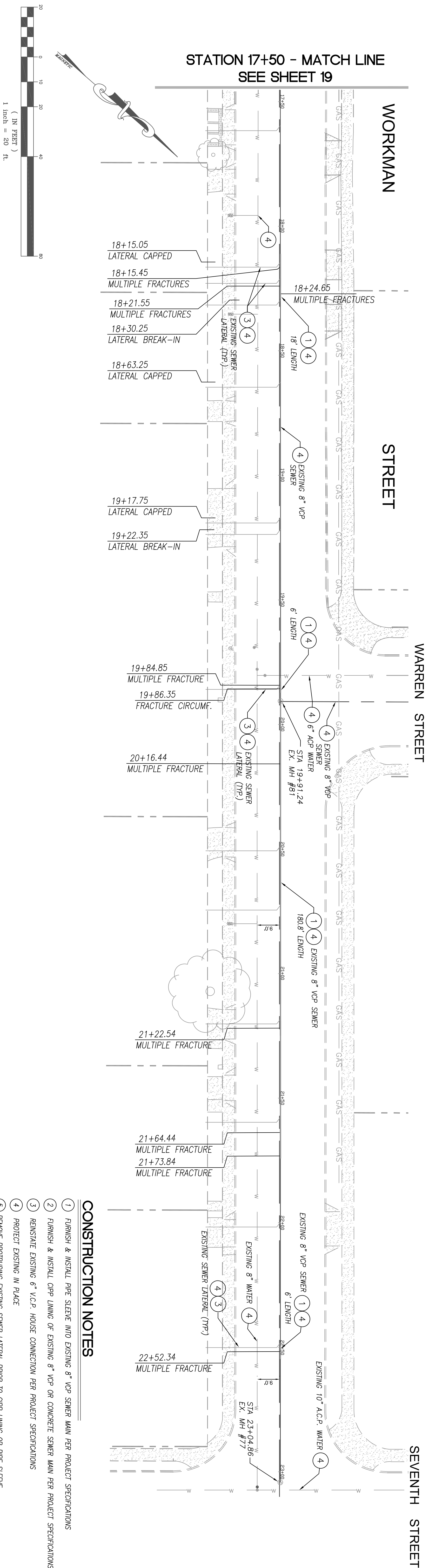
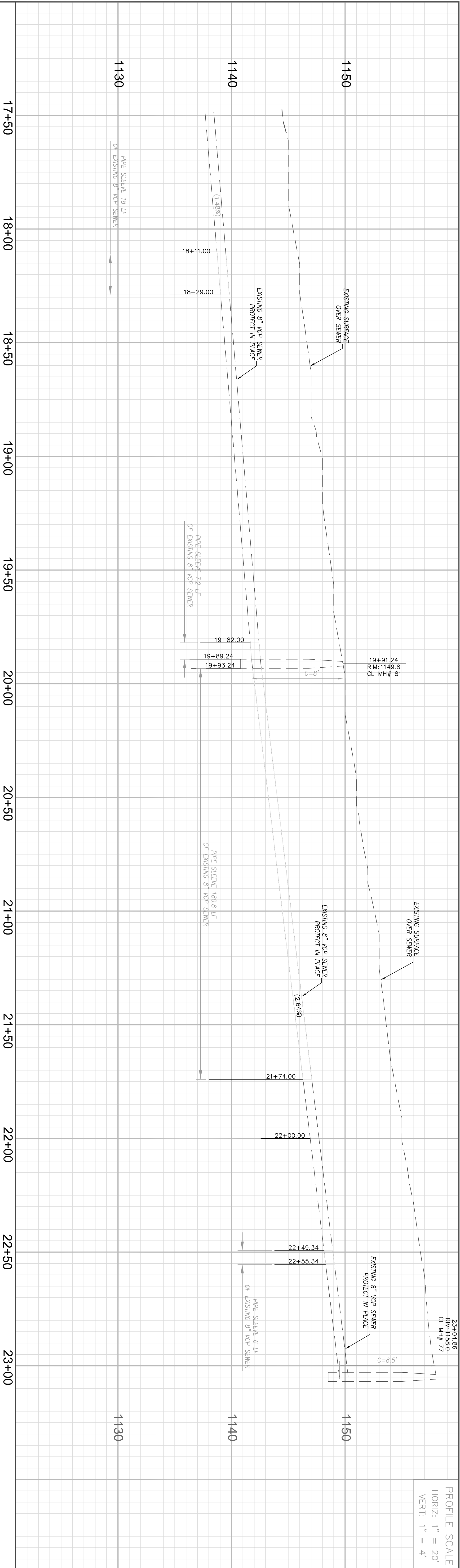
WORKMAN STREET
FROM GLENOAKS BOULEVARD TO SEVENTH STREET

CITY OF SAN FERNANDO

PLAN NO.

P-726

SHEET 19 OF 22



- 1 FURNISH & INSTALL PIPE SLEEVE INTO EXISTING 8" VOP SEWER MAIN PER PROJECT SPECIFICATIONS
- 2 FURNISH & INSTALL CIPP LINING OF EXISTING 8" VOP OR CONCRETE SEWER MAIN PER PROJECT SPECIFICATIONS
- 3 REINSTATE EXISTING 6" V.C.P. HOUSE CONNECTION PER PROJECT SPECIFICATIONS
- 4 PROTECT EXISTING IN PLACE
- 5 REMOVE PROTRUDING EXISTING SEWER LATERAL PRIOR TO CIPP LINING OR PIPE SLEEVE

SEWER IMPROVEMENTS

2018-2019 ANNUAL STREET RESURFACING PROJECT
WORKMAN STREET
FROM GLENOAKS BOULEVARD TO SEVENTH STREET
CITY OF SAN FERNANDO

PLAN NO.

P-726

SHEET 20 OF 22



**Know what's below.
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NAME		NUMBER		DATE	INITIALS	APPROD.	
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SAN FERNANDO
PUBLIC WORKS DEPARTMENT

YING KWAN, P.E., CONSULTING CITY ENGINEER, RCE 42418

DATE _____



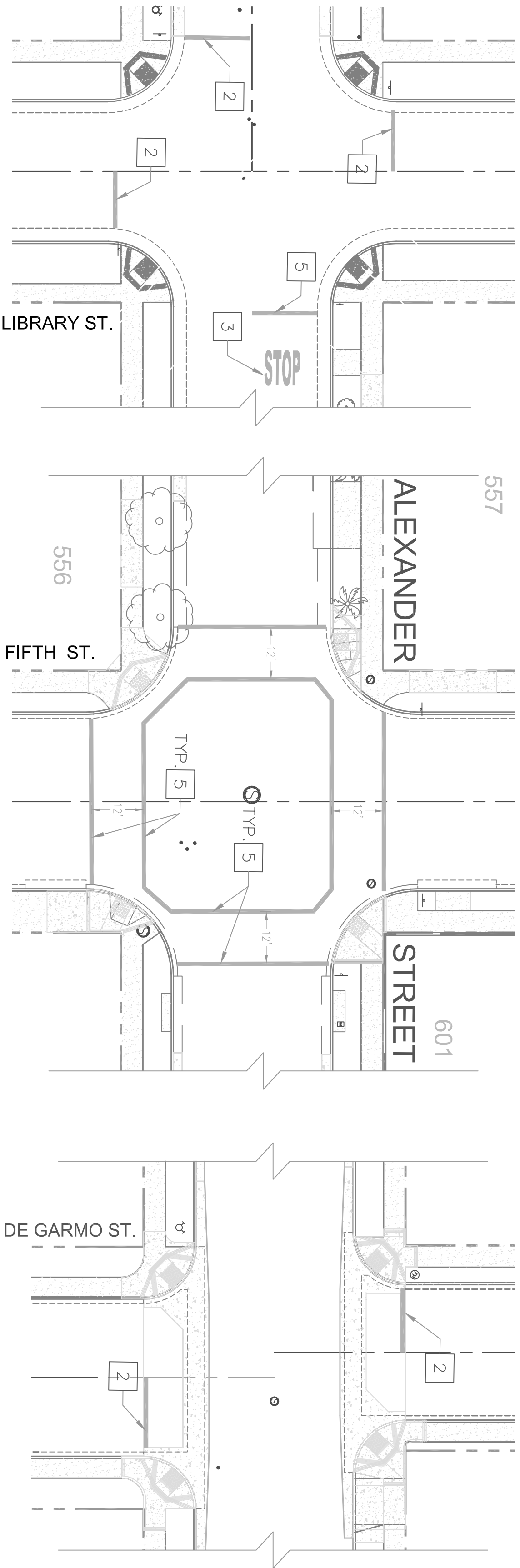
PLANS PREPARED UNDER THE
JOAQUIN CERVANTES, JR., P.E.

DATE _____

DESIGN BY:	JC	4/20/2017
DRAWN BY:	DC	4/20/2017
CHECKED BY:	CA	5/30/2017

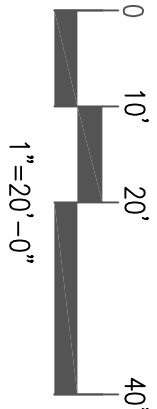
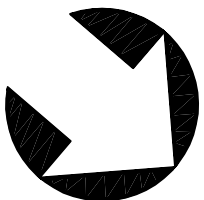
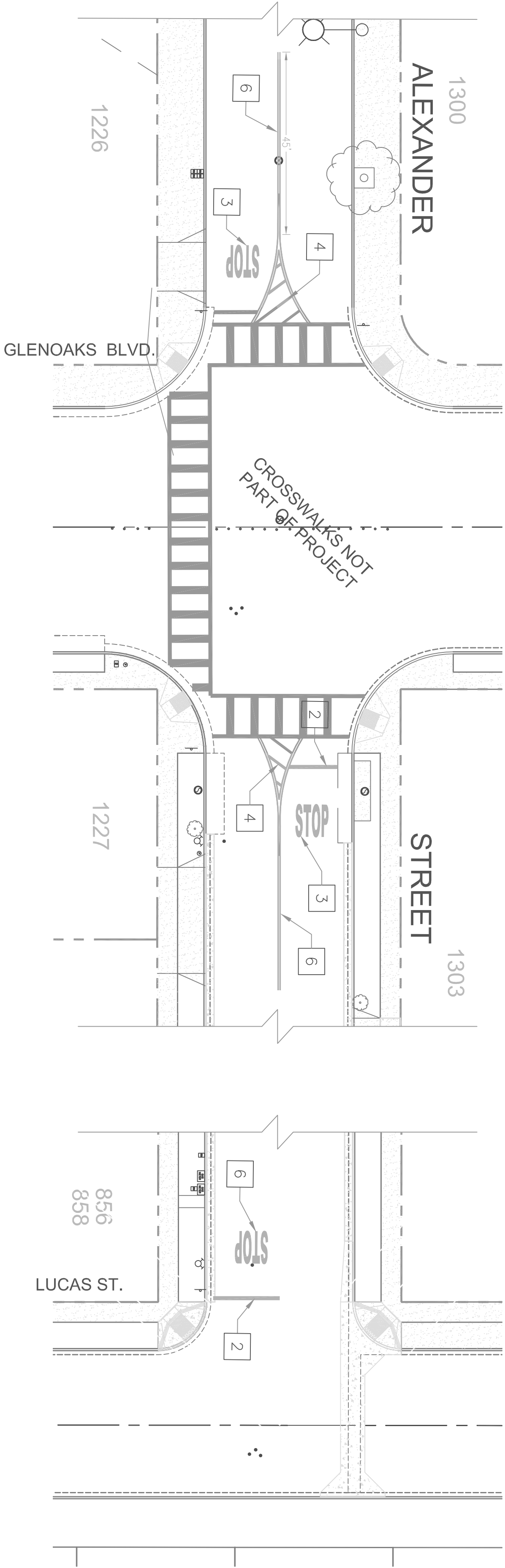
DRAWN BY:
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DRAWN BY:
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STRIPING NOTES

- 1 INSTALL CALTRANS DETAIL 2 WITH 50' LONG SOLID BREAK LINES AT INTERSECTION.
- 2 INSTALL 12" WIDE WHITE LIMIT/CROSSWALK LINE.
- 3 INSTALL PAVEMENT MARKING AS SHOWN.
- 4 INSTALL 4" DIAGONAL LINES @ 4' O.C.
- 5 INSTALL 12" WIDE YELLOW LIMIT/CROSSWALK LINE.
- 6 INSTALL CALTRANS DETAIL 21.






Know what's below.
Call before you dig.

NUMBER	DATE	INITIALS	APPROVAL

REVISIONS


BENCH MARK:




SAN FERNANDO
PUBLIC WORKS DEPARTMENT

YING KWAN, P.E., CONSULTING CITY ENGINEER, RCE 42418

DATE



Plans prepared by:



CONSULTING CIVIL ENGINEERS
1880 AVILA RD., SUITE B13
DOWNEY, CA 90241
(562) 997-9875 / (562) 997-2874 FAX

PLANS PREPARED UNDER THE SUPERVISION OF: JOAQUIN GERANTES, JR., P.E.

DATE: DESIGN BY: JC 4/20/2017
DRAWN BY: DC 4/20/2017
CHECKED BY: CA 5/30/2017

2018-2019 ANNUAL STREET RESURFACING PROJECT

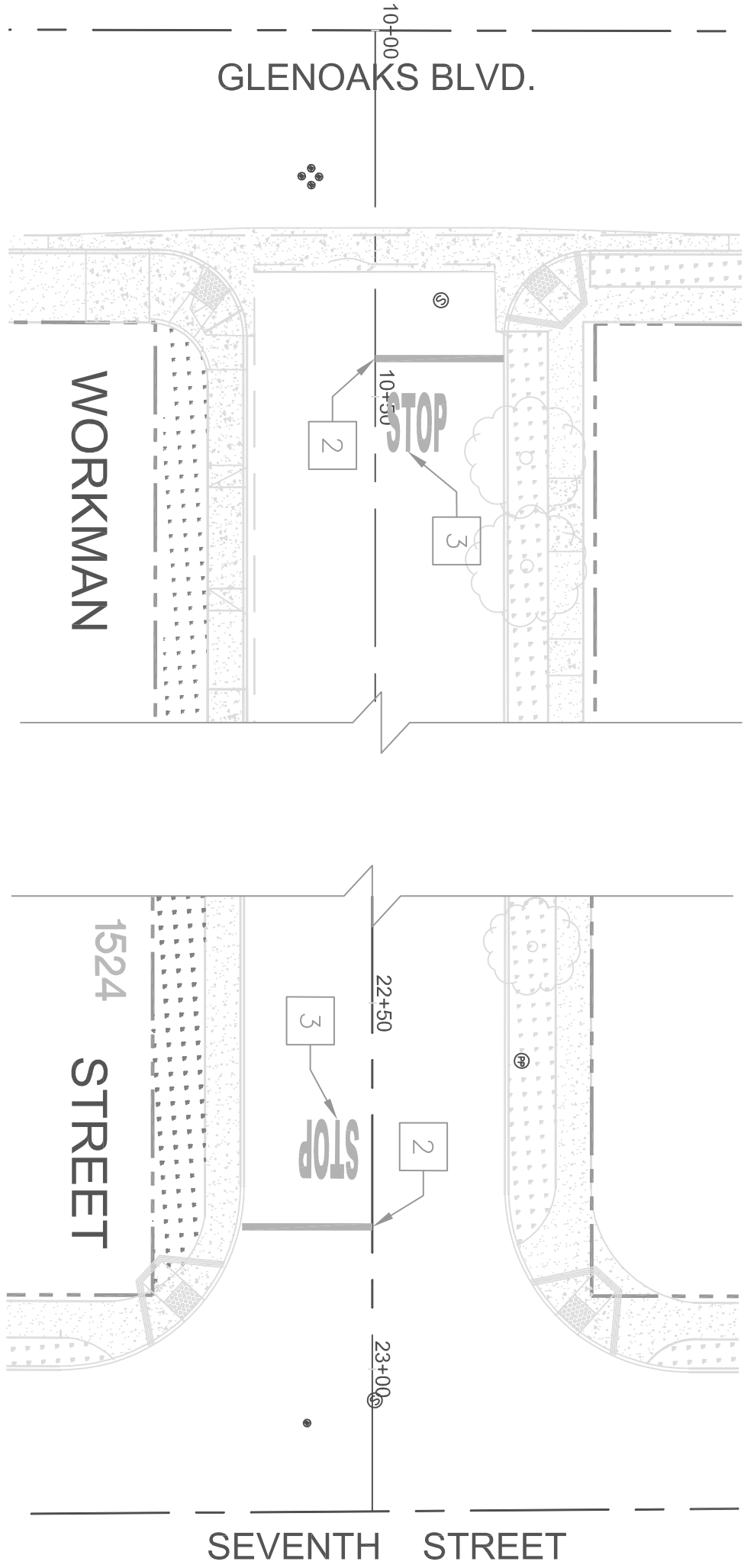
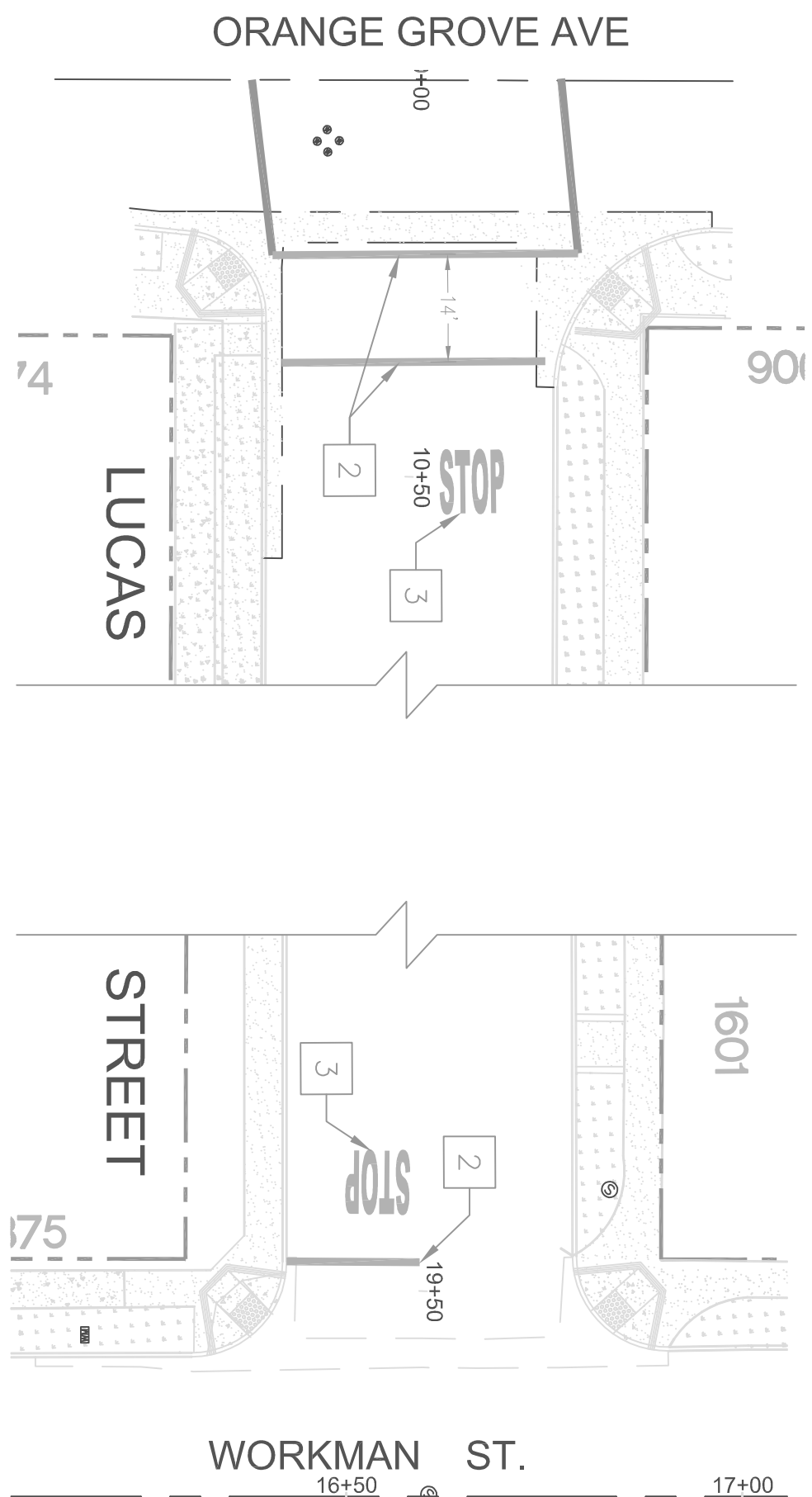
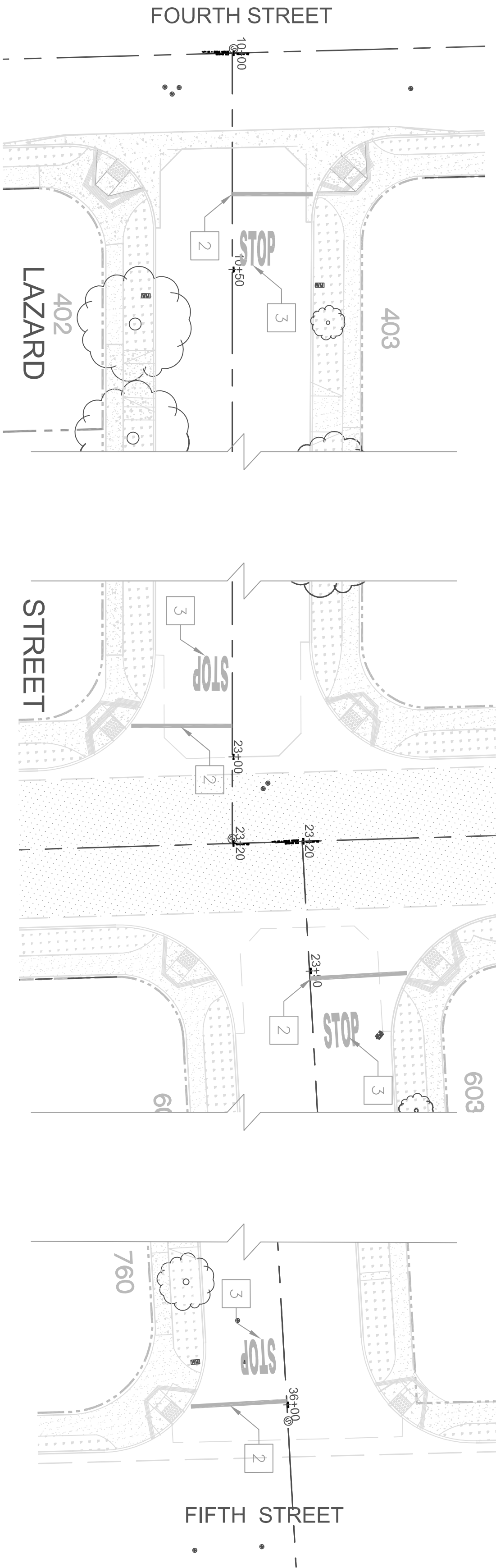
ALEXANDER STREET
STRIPING PLAN

CITY OF SAN FERNANDO

PLAN NO.

P-726

SHEET 22 OF 22




STRIPING NOTES

- 1
- INSTALL CALTRANS DETAIL 2 WITH 50' LONG SOLID BREAK LINES AT INTERSECTION.
- 2
- INSTALL 12" WIDE WHITE LIMIT/CROSSWALK LINE.
- 3
- INSTALL PAVEMENT MARKING AS SHOWN.
- 4
- INSTALL 4" DIAGONAL LINES @ 4' O.C.
- 5
- INSTALL 12" WIDE YELLOW LIMIT/CROSSWALK LINE.
- 6
- INSTALL CALTRANS DETAIL 21.

GENERAL NOTES

1.
- ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO SECTION 84 AND 85 OF THE 2015 CALTRANS STANDARD SPECIFICATIONS AND THE APPROPRIATE DETAILS IN THE CALTRANS TRAFFIC MANUAL.
2.
- FOR ALL REFERENCES TO DETAILS OR FIGURES SHOWN HEREON, REFER TO THE 2015 CALTRANS STANDARD PLANS A20A - A20D AND A24A - A24E.
3.
- SIGNING AND STRIPING INSTALLATION SHALL NOT BE DONE WITHOUT THE WRITTEN APPROVAL OF THE CITY ENGINEER. PUBLIC WORKS INSPECTION, OR DESIGNER. ALL STRIPING CAT-PAKING AND SIGN LAYOUT SHALL BE INSPECTED BEFORE INSTALLATION. CONTACT THE PUBLIC WORKS INSPECTOR AT LEAST 24 HOURS IN ADVANCE TO SCHEDULE THE INSPECTION. THE CITY ENGINEER OR DESIGNER MUST APPROVE ANY CHANGES DUE TO PLAN DISCREPANCIES OR REVISIONS.
4.
- LANE WIDTHS SHALL BE MEASURED BETWEEN THE CENTER LINES OF EACH ADJACENT SINGLE OR DOUBLE STRIPE OR TOP OF CURB AS APPROPRIATE.
5.
- ALL LANE LINES AT INTERSECTION APPROACHES AND DEPARTURES SHALL BEGIN AND END WITH 50 FEET OF CONTINUOUS RAISED PAVEMENT MARKERS.
6.
- ALL GROSSWALKS, LIMIT LINES AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
7.
- PAINT SHALL BE APPLIED UNDER SUITABLE WEATHER CONDITIONS AND PER THE PAINT MANUFACTURER'S LABEL RECOMMENDATIONS FOR PAVEMENT AND AMBIENT TEMPERATURE REQUIREMENTS. PAINT SHALL NOT BE APPLIED IF RAIN IS FORECASTED WITHIN 24 HOURS.
8.
- THINNING OF PAINT SHOULD NOT BE ALLOWED.
9.
- ALL STRIPING SHALL INCLUDE RAISED PAVEMENT MARKERS (RPMS) PER THE APPROPRIATE CALTRANS TRAFFIC MANUAL DETAIL.
10.
- CONTRACTOR SHALL REMOVE ALL CONFLICTING PAINTED LINES, MARKINGS AND PAYMENT LEGENDS BY WET SANDBLASTING AND INCLUDES THE REMOVAL OF RAISED PAVEMENT MARKERS. SANDBLASTING DEBRIS SHALL BE REMOVED BEFORE THE END OF EACH WORK DAY.
11.
- NEW SIGNS SHALL BE HIGH INTENSITY SHEETING WITH GRAFFITI FILM.




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REVISIONS

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BENCH MARK:

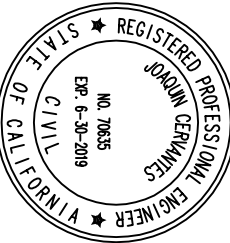


SAN FERNANDO


PUBLIC WORKS DEPARTMENT

YING KWAN, P.E., CONSULTING CITY ENGINEER, RCE 42418

DATE



PLANS PREPARED UNDER THE SUPERVISION OF: **JOAQUIN CERVANTES, JR., P.E.**



CHE

Engineering, Inc.

CONSULTING CIVIL ENGINEERS

14800 AVALON BLVD., SUITE B13

(951) 957-1975 (951) 957-5021 FAX

DESIGN BY: **JC** 4/20/2017
DRAWN BY: **DC** 4/20/2017
CHECKED BY: **CA** 5/30/2017

2018-2019 ANNUAL STREET RESURFACING PROJECT

PLAN NO.

LAZARD ST./LUCAS ST./WORKMAN ST.

STRIPING PLAN

CITY OF SAN FERNANDO

SHEET **21** OF 22

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