# CITY OF SAN FERNANDO

## PUBLIC WORKS DEPARTMENT CALLES VERDES

### 100% DESIGN

Project No. 7605, Plan No. 727

SHEET | PLAN

1 T-1

NO.

G-1

G-2

G-3

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San Fernando

City Limits

NOT TO SCALE

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LIST OF DRAWINGS

DESCRIPTION

TITLE SHEET

HORIZONTAL CONTROL PLAN

STANDARD DETAILS (1 OF 2)

STANDARD DETAILS (2 OF 2)

S MACLAY AVENUE SITE IMPROVEMENT PLAN STA 5+50 TO STA 11+50

S MACLAY AVENUE SITE IMPROVEMENT PLAN STA 11+50 TO STA 16+25

S MACLAY AVENUE SITE IMPROVEMENT PLAN STA 16+25 TO STA 21+50

S MACLAY AVENUE SITE IMPROVEMENT PLAN STA 21+50 TO STA 26+50

S BRAND BLVD SITE IMPROVEMENT PLAN STA 00+00 TO STA 04+50

S BRAND BLVD SITE IMPROVEMENT PLAN STA 04+50 TO STA 09+50

PARKING LOT 4 SITE IMPROVEMENT PLAN

IRRIGATION NOTES

S MACLAY AVE IRRIGATION PLAN

S BRAND BLVD IRRIGATION PLAN

S BRAND BLVD IRRIGATION PLAN

PARKING LOT IRRIGATION PLAN

PARKING LOT IRRIGATION PLAN

**IRRIGATION DETAILS** 

**IRRIGATION DETAILS** 

PLANTING PLAN AT BULB-OUTS

PLANTING PLAN AT BULB-OUTS

PLANTING PLAN AT BULB-OUTS

PLANTING PLAN AT PARKING LOT

PLANTING PLANS AT S. MACLAY

PLANTING PLANS AT S. MACLAY

PLANTING PLANS AT S. MACLAY

PLANTING PALETTE AT S. MACLAY

#### **GENERAL NOTES:**

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND THE REFERENCE SPECIFICATIONS FOR THE CITY OF SAN FERNANDO HITHERTO KNOWN AS "THE CITY". ANY CHANGES OR REVISIONS THEREFROM SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY REQUEST FOR INSPECTION. 2. APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT CONSTITUTE APPROVAL OF ANY WORK OUTSIDE THE
- PROJECT BOUNDARY 3. THE CONTRACTOR SHALL NOTIFY THE AGENCY'S CONSTRUCTION MANAGER, PATSY OROZCO @ (818) 898-1222, A MINIMUM OF 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION AND 48 HOURS IN ADVANCE OF INSPECTION REQUESTS.
- 4. WRITTEN PERMISSION SHALL BE OBTAINED FOR ANY ON SITE GRADING.
- 5. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES ON THESE PLANS IS NOT EXHAUSTIVE AND FURTHER SEARCHES AND ANALYSIS OF AVAILABLE RECORDS SHOULD BE PERFORMED PRIOR TO UNDERTAKING ADDITIONAL DESIGN. ADDITIONALLY THE CONTRACTOR WILL BE REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT EXISTING FACILITIES SHOWN ON THESE PLANS AND THOSE ENCOUNTERED IN THE FIELD.
- AT LEAST 48 HOURS PRIOR TO STARTING WORK, UNDERGROUND SERVICE ALERT (USA) SHALL BE NOTIFIED BY THE CONTRACTOR FOR LOCATION OF UNDERGROUND UTILITIES AT 1-800-422-4133. THE PROPOSED DIG AREA MUST BE MARKED IN WHITE PAINT PRIOR TO CONTACTING (USA).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY HEALTH STANDARDS, LAWS AND REGULATIONS.
- 8. LOCATION AND ELEVATION OF IMPROVEMENTS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OR DEMOLITION. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS (POTHOLING) AND LOCATE ALL EXISTING UNDERGROUND FACILITIES WITHIN THE PROJECT AREA SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY DUE TO ACTUAL LOCATIONS OF EXISTING FACILITIES.
- 9. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT UTILITY OWNERS PRIOR TO ANY EXCAVATION, DURING CONSTRUCTION, AND AS NEEDED.
- ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED. AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS GUTTER, AND PAVING.
- 11. THE CONTRACTOR SHALL PROTECT EXISTING LANDSCAPING AND IMPROVEMENTS REMAINING IN PLACE AND THAT ARE NOT CALLED OUT TO BE REMOVED OR ALTERED ON THESE PLAN. EXCEPT WHEN WORK IS BEING DONE ON DRIVEWAYS, THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE DRIVEWAYS AT ALL TIMES.
- 12. ALL PRIVATE IMPROVEMENTS IN THE PUBLIC RIGHT OF WAY DESIGNATED TO BE REMOVED SHALL BE SALVAGED AND RETURNED TO THE PROPERTY OWNER. ALL PRIVATE IMPROVEMENTS OUTSIDE THE PUBLIC RIGHT OF WAY, THAT ARE NOT DESIGNATED TO BE REMOVED, THAT ARE DAMAGED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CITY.
- 13. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING THE UTILITIES, ARE RECORDED. A COPY OF SAID AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE CITY WHEN REQUESTED.
- 14. MATERIAL DEBRIS SHALL NOT BE STORED OR REMAIN IN THE PUBLIC RIGHT OF WAY WITHOUT APPROVAL BY THE CITY ENGINEER.
- 15. THE CONTRACTOR SHALL NOTIFY IN WRITING AND OBTAIN APPROVAL OF THE CITY ENGINEER PRIOR TO MAKING CHANGES IN THE FIELD.
- 16. NOTES AND DETAILS ON THE PLANS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES IN THE CASE OF CONFLICT. 17. THE CONTRACTOR SHALL PROPERLY GRADE ALL EXCAVATED SURFACES TO PROVIDE POSITIVE DRAINAGE
- AND PREVENT PONDING OF WATER. UNLESS OTHERWISE NOTED IN THE PLANS THE CONTRACTOR SHALL CONTROL SURFACE WATER AND AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISHED WORK ON THE SITE AND SHALL TAKE REMEDIAL MEASURES TO PREVENT EROSION OF TEMPORARILY GRADED AREAS UNTIL SUCH A TIME AS PERMANENT DRAINAGE AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- ALL EXCAVATIONS IN EXISTING PAVEMENT SHALL BE SAW CUT TO NEAT LINES AND AC PAVEMENT REPLACEMENT SHALL BE MADE TO THE SATISFACTION OF THE CITY ENGINEER OR HIS DULY AUTHORIZED
- 19. ALL APPROACHES TO PRIVATE DRIVEWAYS AND INTERSECTING ROADS AND STREETS SHALL BE KEPT OPEN TO TRAFFIC AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENT OR BENCH MARK WHICH IS DISTURBED OR DESTROYED SHALL BE RE-ESTABLISHED AND REPLACED BY A CALIFORNIA REGISTERED CIVIL ENGINEER OR A CALIFORNIA LICENSED LAND SURVEYOR.
- 21. NO CITY TREES SHALL BE REMOVED OR HARMED. TREES LOCATED WITHIN CITY STREET RIGHT-OF-WAY, ON CITY PROPERTY, OR WITHIN CITY EASEMENTS ARE REFERRED TO AS CITY TREES AND SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION UNLESS SPECIFICALLY APPROVED OTHERWISE. NO GRADING, EXCAVATION, OR DISTURBANCE OF CITY TREE ROOT SYSTEMS SHALL OCCUR WITHIN THE CITY TREE DRIP LINE AREA (THE AREA FROM THE TRUNK OF A TREE TO THE OUTERMOST EDGE OF THE TREE CANOPY PROJECTION ON THE GROUND). EVEN IF APPROVED IMPROVEMENTS ARE IN CONFLICT WITH A CITY TREE, IT MUST NOT BE DISTURBED UNLESS THE PLAN IS REVISED TO ADDRESS THE TREE REMOVAL

#### PUBLIC UTILITIES WITHIN THE CITY OF SAN FERNANDO:

CITY OF SAN FERNANDO 543 GLENOAKS BLVD. SAN FERNANDO, CA 91340 DANNY GARCIA 818 898 1293

WASTEWATER:

CITY OF SAN FERNANDO 543 GLENOAKS BLVD. SAN FERNANDO. CA 91340 ROBERT DAVIDSON OR RICHARD DE LA PENA 818 898 1293

**ELECTRICITY**: SOUTHERN CALIFORNIA EDISON COMPANY EMERGENCY CALLS

800 611 1911 SOUTHERN CALIFORNIA GAS COMPANY EMERGENCY CALLS

800 427 2200 TELEPHONE: FRONTIER

EMERGENCY CALLS 800 483 1000

SPECTRUM

EMERGENCY CALLS 818 700 6500

CITY OF SAN FERNANDO POLICE DEPT. NON-EMERGENCY NUMBER 818 898 1267

#### **ABBREVIATIONS:**

AC CAB DIA. DTL. ELEV.	ASPHALT CONCRETE CRUSHED AGGREGATE BASE DIAMETER DETAIL ELEVATION
(E) / EX.	EXISTING
FL	FLOWLINE
MIN.	MINIMUM
MM	MILLIIMETER
NO.	NUMBER
NPDES	NATIONAL POLLUTANT
	DISCHARGE ELIMINATION SYSTEM
N.T.S.	NOT TO SCALE
PIP	PROTECT IN PLACE
PVC	POLYVINYL CHLORIDE
SHT.	SHEET
SPEC.	SPECIFICATIONS
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
STA.	STATION
STD.	STANDARD

TOP OF CURB

TYPICAL

#### **SURVEY DATUM:**

NAD83 CALIFORNIA STATE PLANES, ZONE V

#### **BENCHMARK:**

BASIS OF ELEVATIONS IS THE CITY OF LOS ANGELES CITY BENCHMARK NO. 03-02251 WITH A PUBLISHED ELEVATION OF 1059.939' (NGVD 1929). THE BENCHMARK IS LOCATED ON THE NORTHWESTERLY CURB OF BRAND BLVD SOUTHWESTERLY OF THE WESTERLY CORNER OF THE INTERSECTION OF BRAND BLVD WITH SAN FERNANDO ROAD.

(NAME)

TYP.

#### **RIGHT-OF-WAY NOTES:**

- 1. NO ACCESS OR WORK SHALL BE PERFORMED WITHIN THE CITY RIGHT-OF-WAY WITHOUT THE FULL KNOWLED OF THE CITY ENGINEER WHO SHALL BE GIVEN NOT LESS THAN 48 HOURS ADVANCE NOTICE OF THE INITIATION PERMITTED USE AS STATED ON THE PERMIT.
- 2. ALL WORK SHALL BE PERFORMED BY A CONTRACTOR POSSESSING A VALID CALIFORNIA CONTRACTOR'S LICEN OF THE APPROPRIATE CLASS.
- 3. ALL TRAFFIC CONTROL WITHIN THE CONSTRUCTION AREA SHALL BE SUBJECT TO AN APPROVED TRAI CONTROL PLAN AND SHALL BE FLAGGED AND BARRICADED TO THE SATISFACTION OF THE CITY ENGINEER COMPLIANCE WITH THE "WORK AREA TRAFFIC CONTROL HANDBOOK", LATEST EDITION PUBLISHED BY BUILD NEWS, INC. IN THE EVENT THAT THE INSPECTOR DETERMINES PROPER TRAFFIC CONTROL IS NOT IN PLACE, WORK SHALL CEASE AND CONTRACTOR AUTHORIZES THE DIRECTOR OF PUBLIC WORKS OR HIS DU AUTHORIZED REPRESENTATIVE TO ORDER, ON THE RENTAL BASIS, SUCH TRAFFIC CONTROL DEVICES AS SHA BE NECESSARY AND PROPER TO PROTECT THE PUBLIC SAFETY AND FURTHER AGREES TO PAY ANY AND A COSTS AND CHARGES THAT THE CITY MAY INCUR IN PROVIDING SAID TRAFFIC CONTROL
- 4. WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY SPECIFICATIONS AND APPROVED PLA SUBJECT TO INSPECTION AND APPROVAL BY THE CITY ENGINEER OR HIS DULY AUTHORIZED REPRESENTATI CERTIFICATION FOR ALL MATERIALS AND WORK, INCLUDING COMPACTION TESTS, SHALL BE FURNISHED BY APPLICANT UPON REQUEST BY THE CITY ENGINEER. CERTIFICATION SHALL BE MADE BY A CERTIFIED TEST AGENCY OR FIRM ACCEPTABLE TO THE CITY.
- 5. NO WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS PERMITTED ON SATURDAYS, SUNDAYS, OR HOLIDAYS. A DEVIATION FROM THE WORK SCHEDULE PRESENTED IN THESE CONDITIONS MUST RECEIVE PRIOR, WRITT APPROVAL OF THE CITY ENGINEER OR HIS DULY AUTHORIZED REPRESENTATIVE. 6. NO WORK ON ANY PUBLIC ROADWAY, EXCLUDING PRIME ARTERIALS AND MAJOR ROADS, SHALL BE STAR'
- BEFORE 7:30 A.M. OR CONTINUE AFTER 5:00 P.M. ON WEEKDAYS. 7. NO WORK SHALL BEGIN BEFORE 9:00 A.M. OR CONTINUE AFTER 3:00 P.M. ON PRIME ARTERIALS AND OTHER MAJ ROADS, UNLESS AUTHORIZED ON THE PERMIT BY THE CITY ENGINEER. ALL WORK ON PRIME ARTERIALS A
- OTHER MAJOR ROADS, ALL AS SHOWN ON THE CIRCULATION ELEMENT OF THE CITY'S GENERAL PLAN, W REQUIRE A TRAFFIC CONTROL PLAN ACCEPTABLE TO THE CITY ENGINEER. 8. THE ROADWAY SHALL BE CLEAN AND FREE OF ALL OBSTRUCTIONS AND COMPLETELY OPEN TO TRAFFIC AT END OF EACH WORKING DAY. (NO LATER THAN 3:00 P.M. ON MAJOR ROADS, DEFINED HEREIN.)
- 9. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. MINIMUM TRAVEL LANE WIDTH FOR MOTOR VEHICL SHALL BE 12 FEET. IF STREET WIDTH PREVENTS MAINTAINING TWO-WAY TRAFFIC, PERMITTEE AND DIRECTOR PUBLIC WORKS SHALL AGREE ON AN ADEQUATE TRAFFIC CONTROL PLAN PRIOR TO STARTING WORK, WH SHALL INCLUDE THE USE OF A FULL-TIME FLAGMAN.
- 10. OPEN TRENCH MUST BE BACKFILLED AND CAPPED WITH AT LEAST 2" OF COLD MIX ASPHALT OR METAL PLAT ACCORDING TO CITY SPECIFICATIONS DURING NON-WORKING HOURS. METAL PLATES ARE REQUIRED TO FLUSH WITH FINISHED SURFACES WITH HAVE COLD MIX ASPHALT RAMPS ON ALL (4) SIDES AND MUST
- 11. NATIVE MATERIAL MAY BE USED UPON APPROVAL OF THE CITY ENGINEER OR HIS DULY AUTHORIZ
- 12. NO TUNNELING UNDER CURB AND GUTTER OR OTHER IMPROVEMENTS SHALL BE PERMITTED. IMPROVEMEN SHALL BE REMOVED AND REPLACED JOINT TO JOINT.
- 13. TWO SACK SAND-CEMENT SLURRY MIX SHALL BE REQUIRED AS BACKFILL ON ALL LATERAL EXCAVATIONS WITH PRIME ARTERIALS. MAJOR ROADS AND COLLECTORS AS WELL AS ALL LOCATIONS WHERE THE INSPECTOR DEEM THE NATIVE MATERIAL TO BE UNACCEPTABLE FOR USE AS BACKFILL.
- 14. CARE SHALL BE EXERCISED TO PREVENT WATER, SOIL AND DEBRIS FROM DEPOSITING IN GUTTERS, STREE AND STORM DRAINS. NO WASHING OUT OF MIXERS OR CONCRETE PUMPS WILL BE ALLOWED ON CITY STREE VIOLATIONS WILL BE REFERRED FOR NPDES ENFORCEMENT AND PENALTIES.
- 15. ANY ROADWAY STRIPING OR MARKINGS DAMAGED OR REMOVED DURING THE OPERATIONS OF THIS PERI SHALL BE MATCHED AND REPLACED BY THE APPLICANT USING THE LATEST EDITION OF STATE DEPARTMENT TRANSPORTATION SPECIFICATIONS FOR PAINT OR THERMOPLASTIC, ALL TO THE SATISFACTION OF THE CI ENGINEER OR HIS DULY AUTHORIZED REPRESENTATIVE.
- 16. ALL CONCRETE WORK SHALL BE TRANSIT MIXED AND CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBI WORKS CONSTRUCTION, LATEST EDITION, SECTION 201, AND BE APPROVED BY THE CITY ENGINEER OR HIS DU AUTHORIZED REPRESENTATIVE.
- 17. TRENCHING FOR INSTALLATIONS ACROSS ANY INTERSECTING ROADWAY OPEN TO TRAFFIC SHALL PROGRESSIVE. NOT MORE THAN HALF OF THE WIDTH OF A TRAVELED ROADWAY SHALL BE DISTURBED AT O TIME AND THE REMAINING WIDTH SHALL BE KEPT OPEN TO TRAFFIC BY BRIDGING OR BACKFILLING.
- 18. WHERE STREET DIMENSIONS AND STATE DEPARTMENT OF HEALTH SERVICES REGULATIONS ALLOW, ALL PIP AND CONDUITS LAID PARALLEL TO THE ROADWAY SHALL BE PLACED AT LEAST FIVE (5) FEET FROM THE EDGE THE PAVEMENT OR GRADED TRAVELED ROADWAY, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CI ENGINEER. THE SHALLOWEST PORTION OF ANY PIPELINE OR OTHER FACILITY SHALL BE INSTALLED NOT LE THAN THIRTY (30) INCHES BELOW THE ROADWAY SURFACE.
- 19. WHERE STREET DIMENSIONS AND STATE DEPARTMENT OF HEALTH SERVICES REGULATIONS ALLOW, ALL PIP AND CONDUITS LAID PARALLEL TO EXISTING UTILITIES SHALL MAINTAIN A MINIMUM SEPARATION OF THREE FEET MEASURED FROM THE NEAREST EDGE OF THE FACILITY. ANY DEVIATION FROM THIS REQUIREMENT IS N ALLOWED UNLESS APPROVED BY THE CITY ENGINEER OR HIS DULY AUTHORIZED REPRESENTATIVE. 20. ALL EXCAVATED MATERIAL SHALL BE CAST AWAY FROM THE IMPROVED PORTION OF THE HIGHWAY. AFTER
- WORK HAS BEEN COMPLETED, ALL EXCESS MATERIAL, INCLUDING TRENCH SPOILS, SHALL BE REMOVED FRO THE RIGHT-OF-WAY. THE ROADWAY SHALL BE LEFT IN NEAT AND ORDERLY CONDITION. 21. ALL ROADSIDE DRAINAGE DITCHES SHALL BE RESTORED TO TRUE GRADES AND THE INTAKE AND OUTLET EN AT ALL CULVERTS SHALL BE LEFT FREE FROM ALL EXCESS MATERIALS AND DEBRIS.
- 22. ALL APPROACHES TO PRIVATE DRIVEWAYS AND INTERSECTING ROADS AND STREETS SHALL BE KEPT OPEN TRAFFIC AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. 23. CLAY AND EARTH WHICH ADHERE TO THE PAVED SURFACE OF THE ROADWAY SHALL BE REMOVED BY HA
- SURFACE WITHOUT IMPAIRING, DAMAGING OR LOOSENING THE SURFACE. 24. PERMITTEE SHALL COMPLY WITH ANY AND ALL DIRECTIVES ISSUED BY THE CITY ENGINEER OR HIS DU AUTHORIZED REPRESENTATIVE IN ORDER TO PREVENT DUST OR OTHER MATERIALS FROM BECOMING NUISANCE OR ANNOYANCE.

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**LEGEND** 

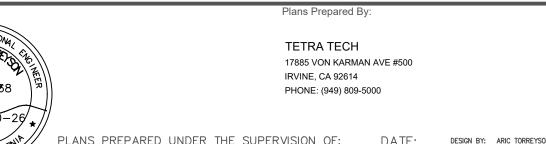
#### NOTICE TO CONTRACTOR:

IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CALL THE USA UNDERGROUND ALERT FOR LOCATION OF EXISTING UNDERGROUND UTILITIES NO LESS THAN TWO DAYS NOR MORE THAN SEVEN DAYS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ANY DAMAGE DONE TO EXISTING UTILITIES OR STREET IMPROVEMENTS INCLUDING CONCRETE/LANDSCAPING DURING CONSTRUCTION.



DATE



CALLES VERDES F

1 -1 TITLE SHEET

SHEET 1 OF 27

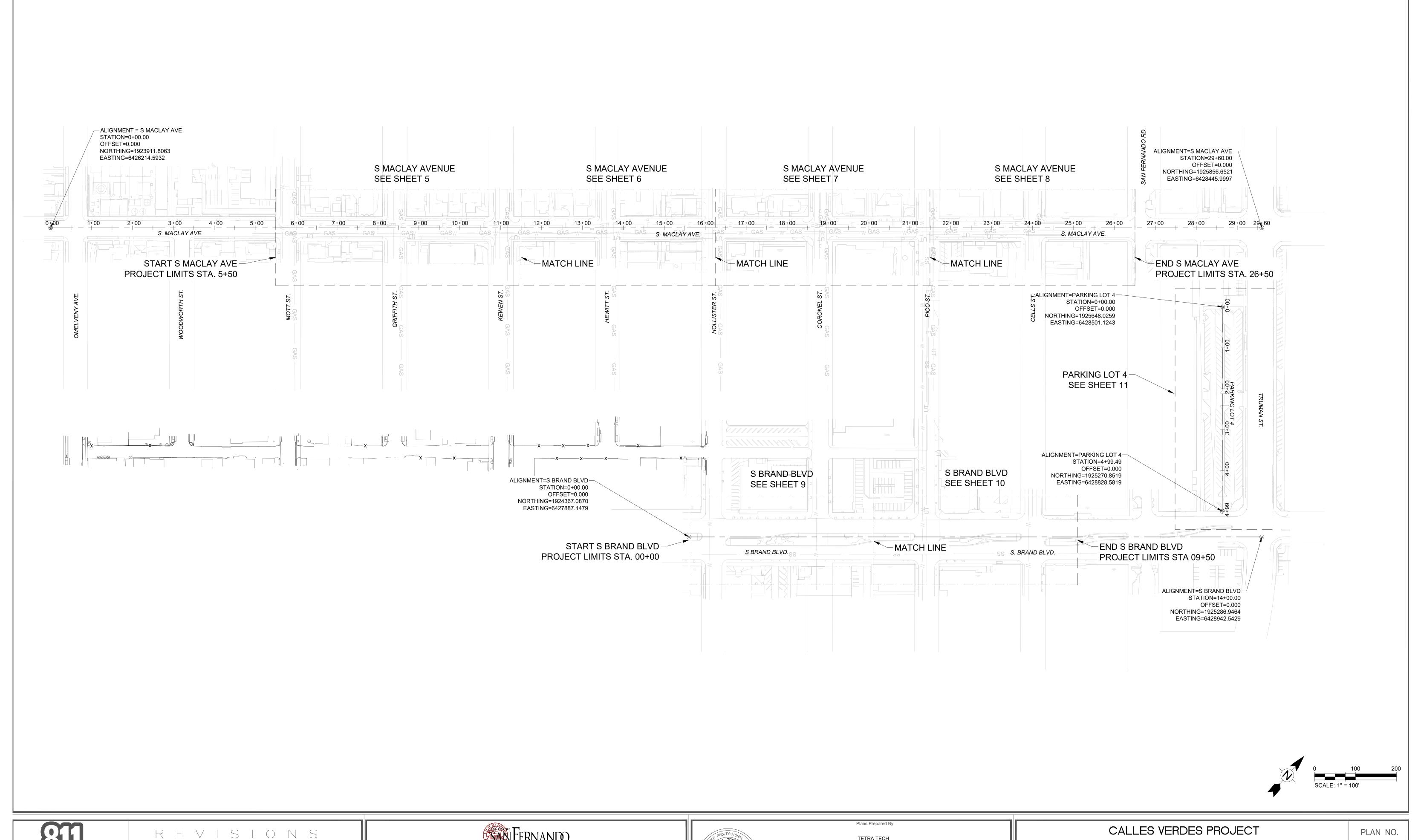
CITY OF SAN FERNANDO

Know what's below. Call before you dig.

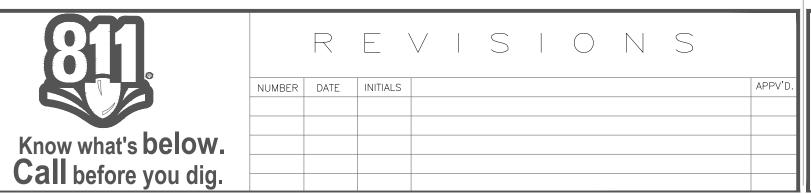
REVISIONS NUMBER DATE INITIALS

SUBMITTED BY: CITY ENGINEER, RCE XXXXX

LANS PREPARED UNDER THE SUPERVISION OF: DRAWN BY: RYAN CHEYNE 5/23/2025 ARIC TORREYSON, P.E.



DATE





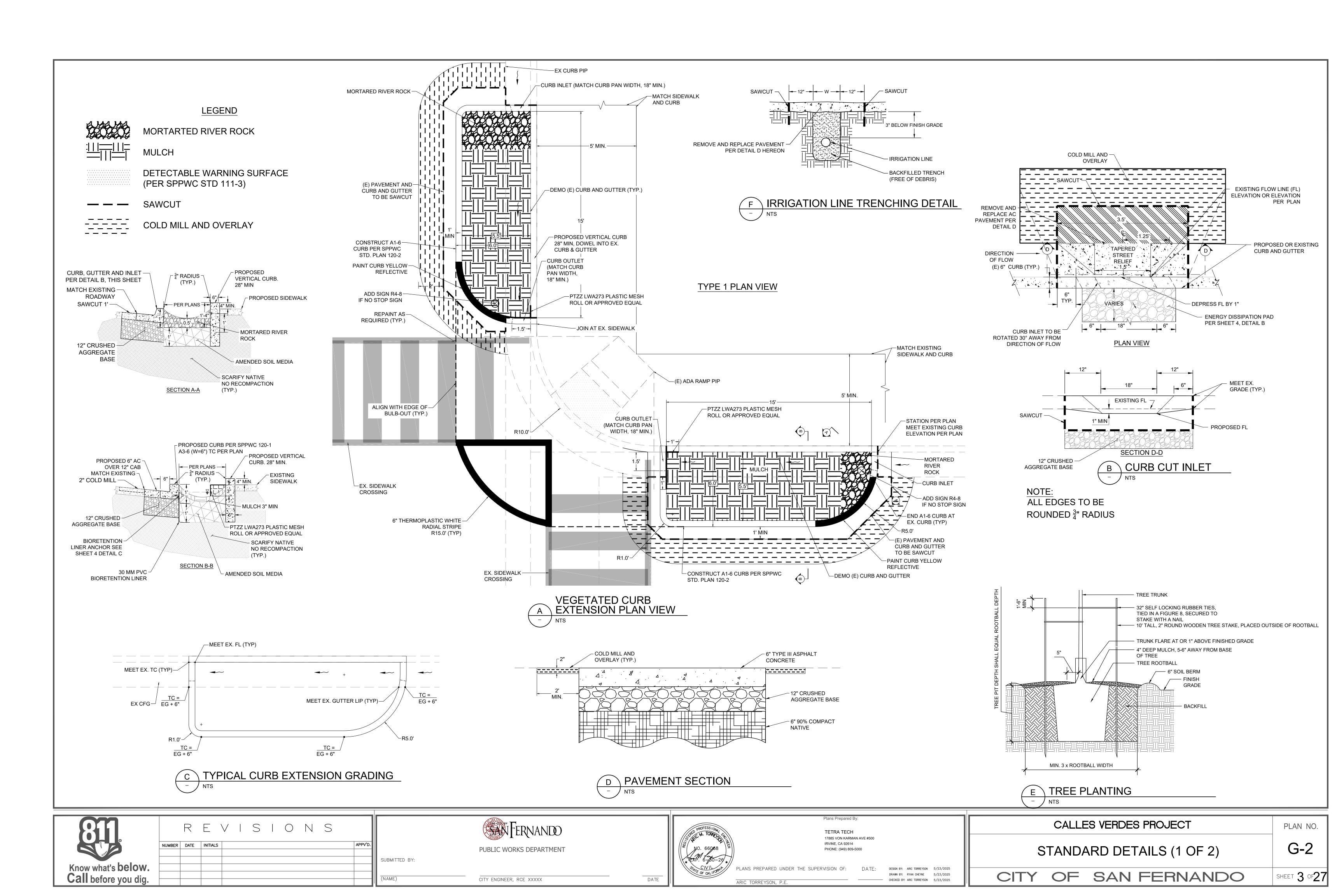
CITY ENGINEER, RCE XXXXX

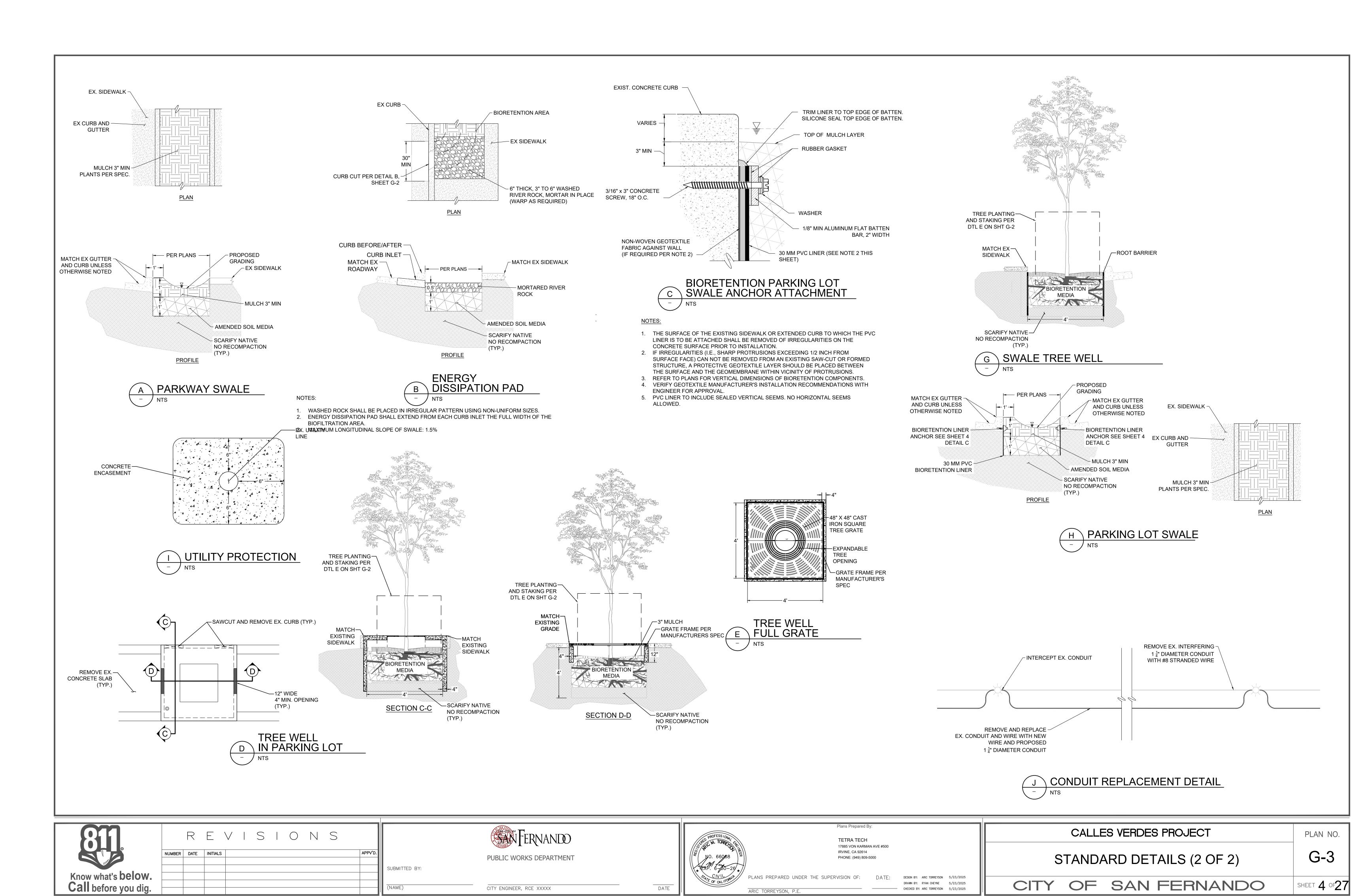
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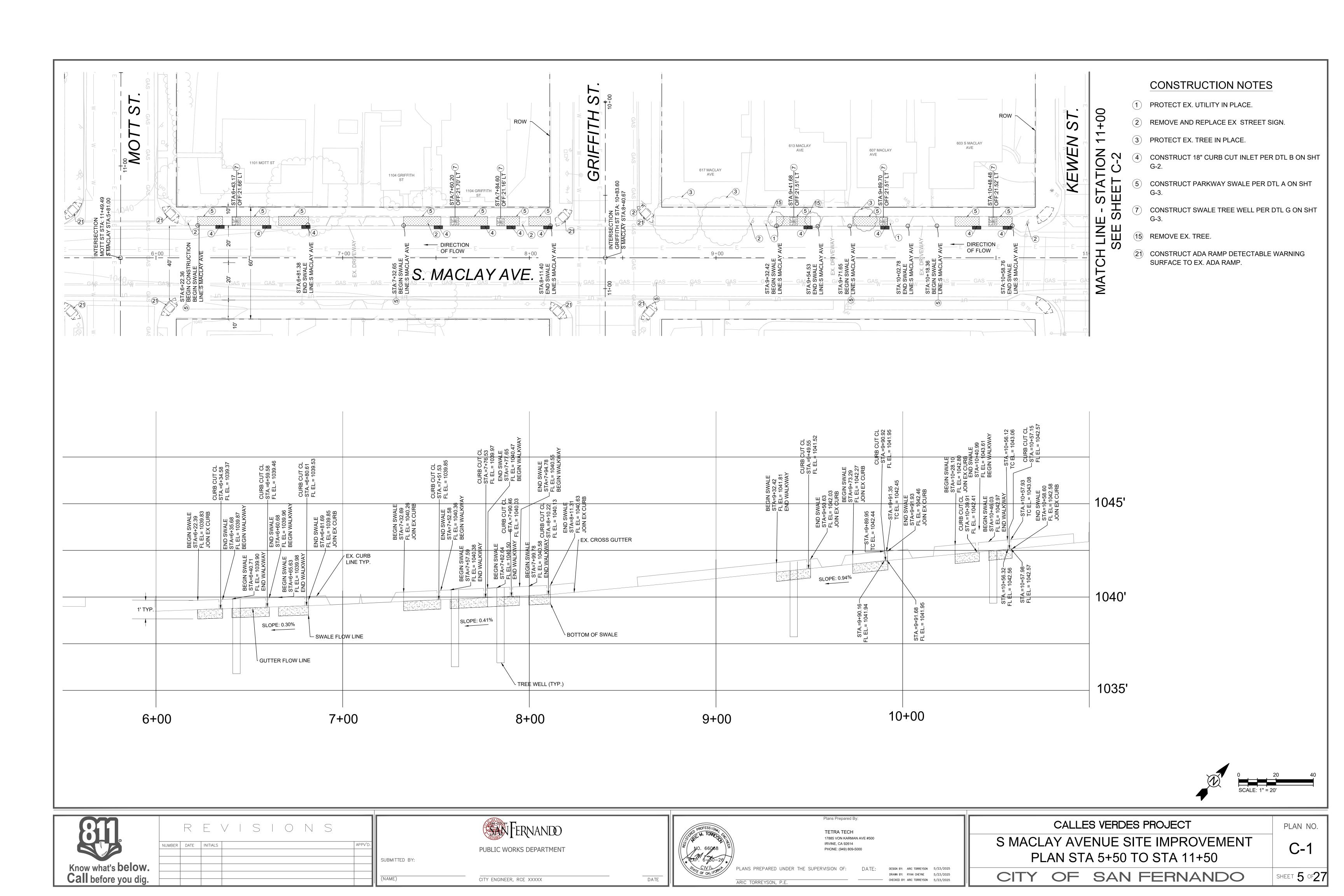
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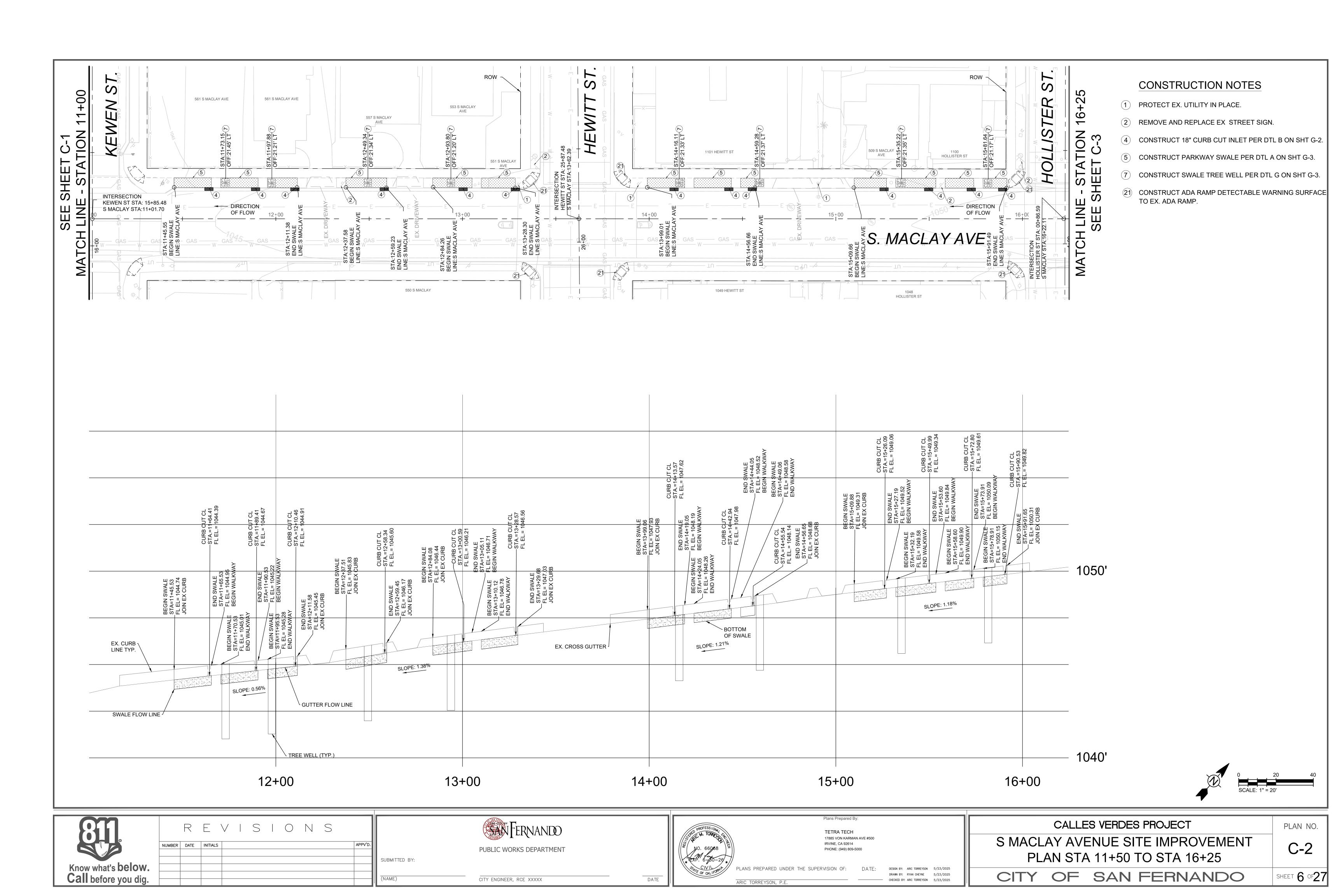
		Plans Prepared By:		
PROFESSIONAL PROFE		TETRA TECH 17885 VON KARMAN AVE #500 IRVINE, CA 92614 PHONE: (949) 809-5000		
OF CALIFORNIE	PLANS PREPARED UNDER THE SUPER	RVISION OF: DATE:	DESIGN BY: ARIC TORREYSON DRAWN BY: RYAN CHEYNE CHECKED BY: ARIC TORREYSON	5/23/2025 5/23/2025 5/23/2025
	ARIC TORREYSON, P.E.		GIEGRED DI. ANIC TORRETSON	3/23/2023

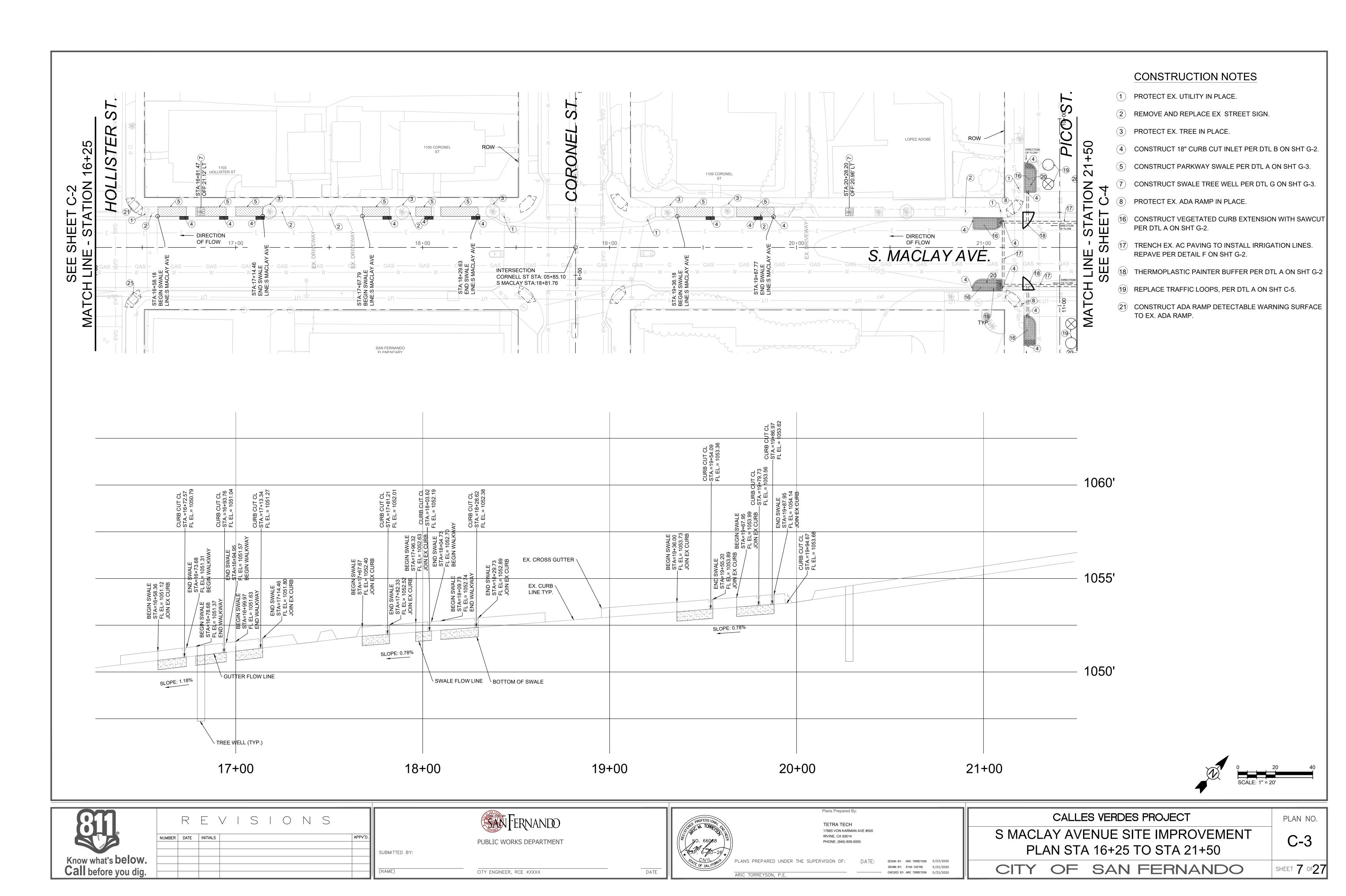
CALLES VERDES PROJECT	PLAN NO.
HORIZONTAL CONTROL PLAN	G-1
CITY OF SAN FERNANDO	SHEET <b>2</b> OF <b>27</b>

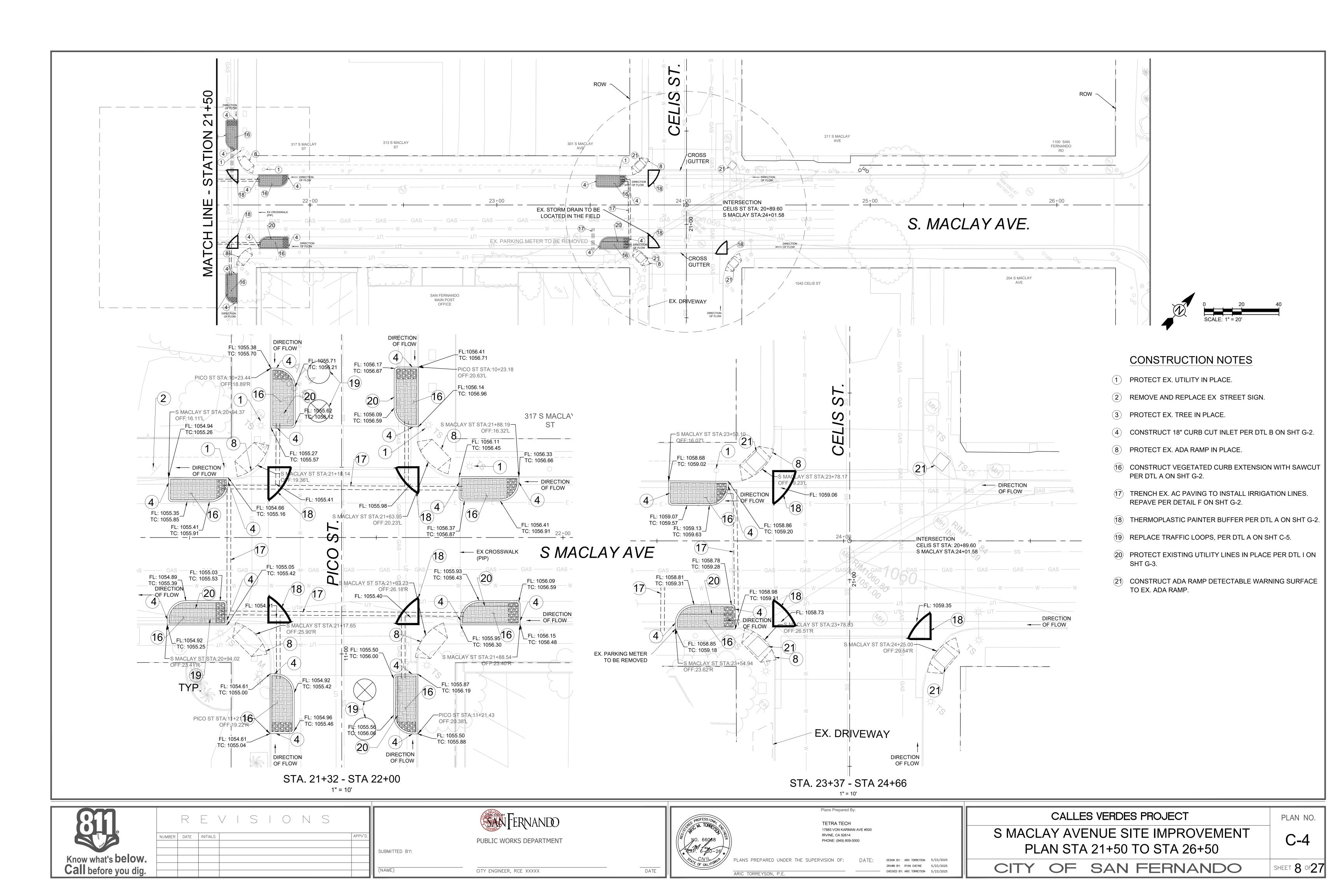


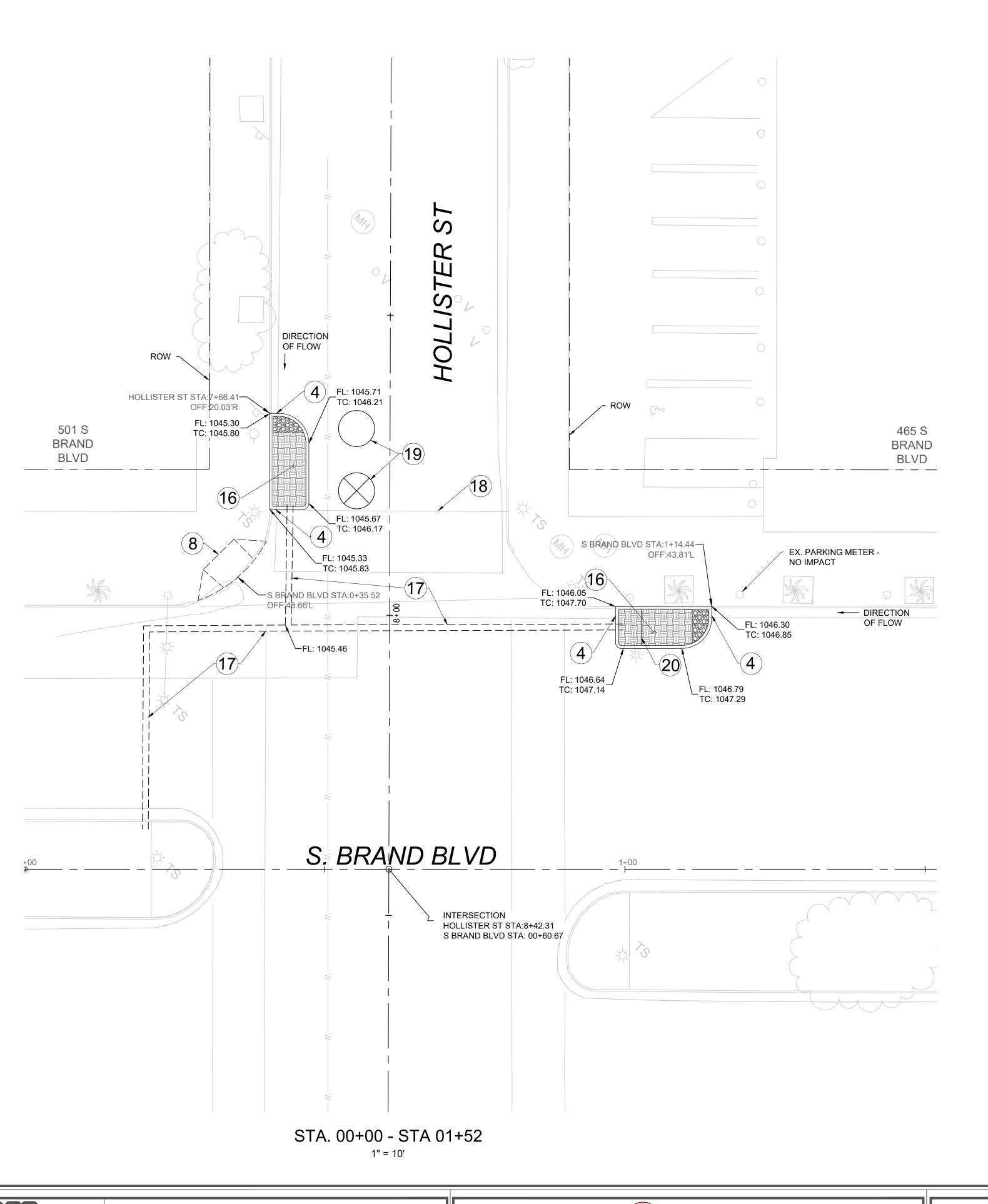








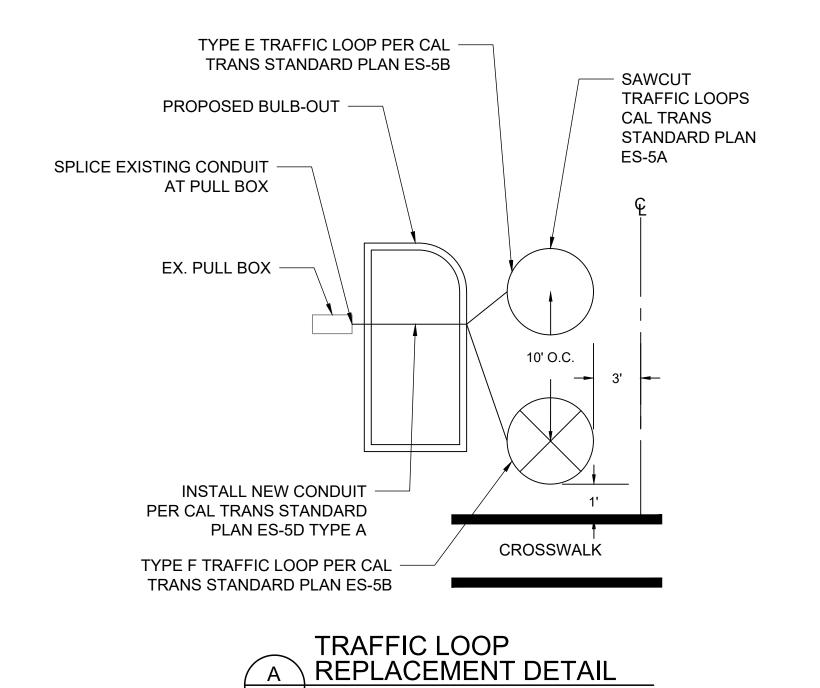


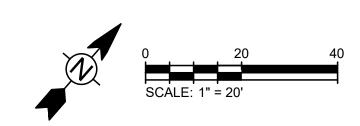


SUBMITTED BY:

#### **CONSTRUCTION NOTES**

- (4) CONSTRUCT 18" CURB CUT INLET PER DTL B ON SHT G-2.
- (8) PROTECT EX. ADA RAMP IN PLACE.
- (16) CONSTRUCT VEGETATED CURB EXTENSION PER DTL A ON SHT G-2.
- 17) TRENCH EX. AC PAVING TO INSTALL IRRIGATION LINES PER DETAIL D ON SHT G-2.
- 18 THERMOPLASTIC PAINTER BUFFER PER DTL A ON SHT G-2.
- 19 REPLACE TRAFFIC LOOPS, PER DTL A HEREON.
- 20 PROTECT EXISTING UTILITY LINES IN PLACE PER DTL I ON SHT G-3





Know what's below.
Call before you dig.

FERNANDO PUBLIC WORKS DEPARTMENT

CITY ENGINEER, RCE XXXXX

NO. 66068

NO. 66068

PLANS PREPARED UND

ARIC TORREYSON, P.E.

TETRA TECH 17885 VON KARMAN AVE #500 IRVINE, CA 92614 PHONE: (949) 809-5000

OF: DATE: DESIGN BY: ARIC TORREYSON 5/23/2025

DRAWN BY: RYAN CHEYNE 5/23/2025

CHECKED BY: ARIC TORREYSON 5/23/2025

CALLES VERDES PROJECT

S BRAND BLVD SITE IMPROVEMENT PLAN

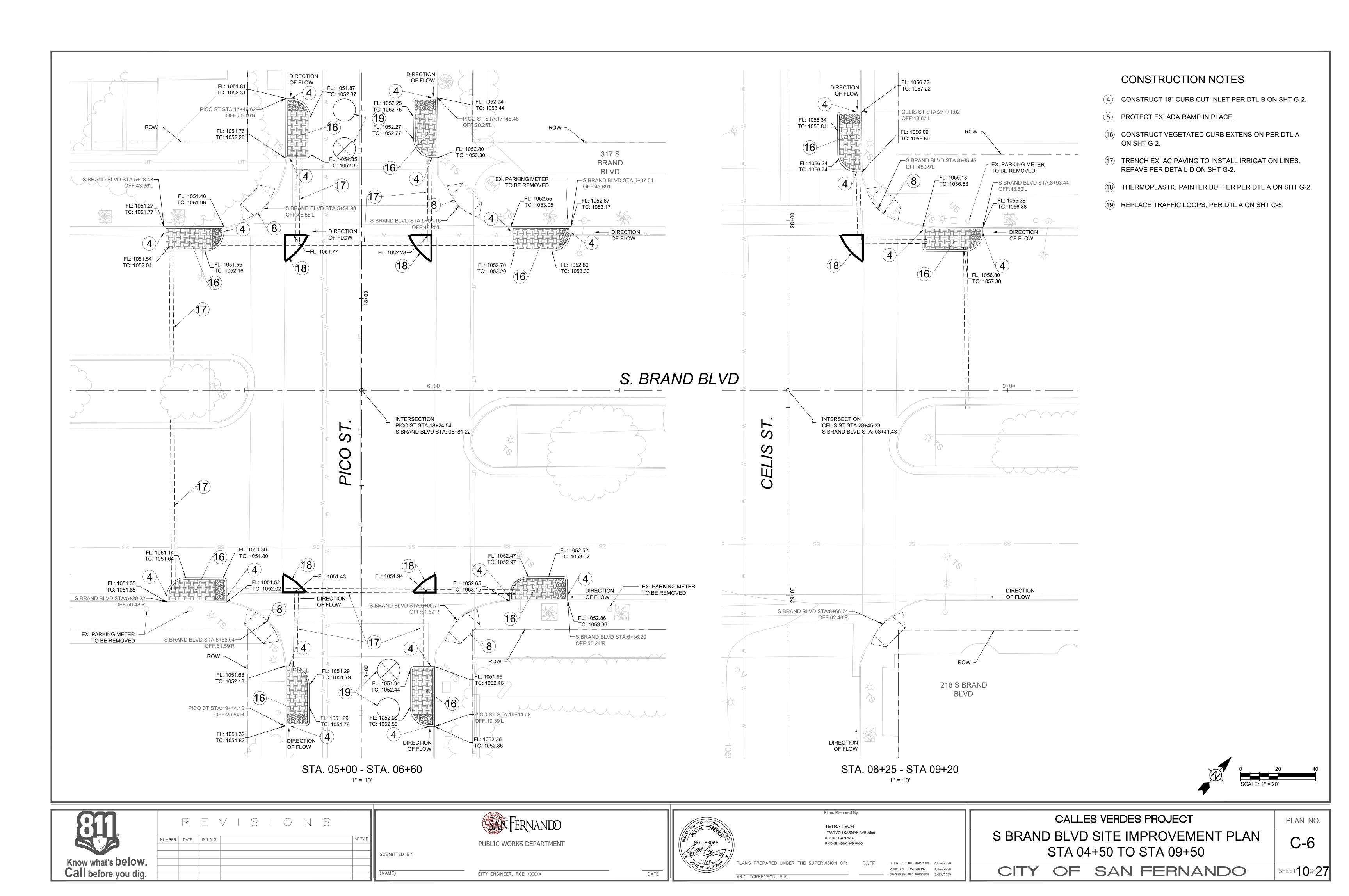
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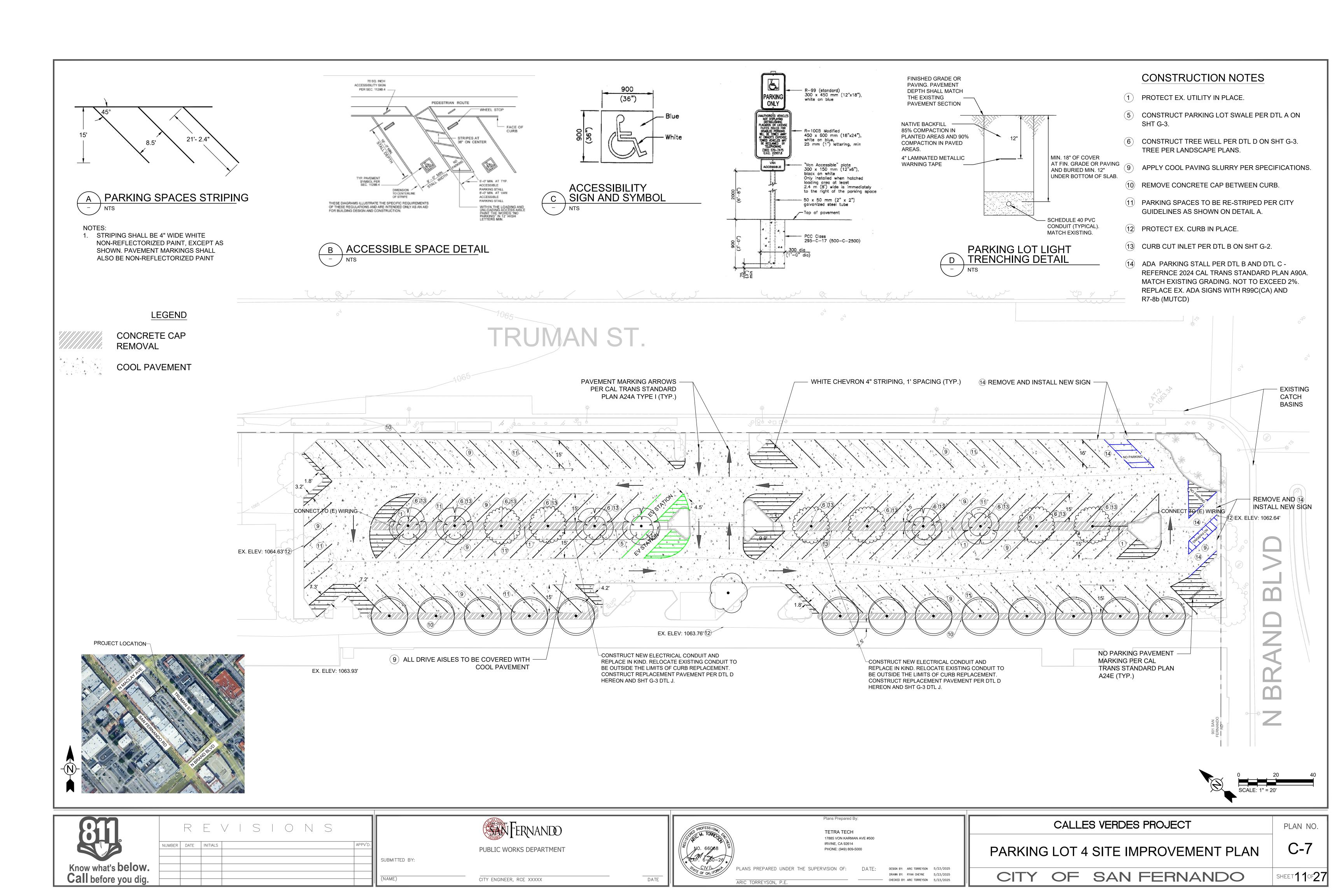
C-5

PLAN NO.

CITY OF SAN FERNANDO

SHEET **9** OF **27** 





#### GENERAL IRRIGATION NOTES

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE AN ORIGINAL SET OF THESE PRINTED IRRIGATION PLANS FOR BIDDING AND CONSTRUCTION.
- 2. XEROX COPIES OF THESE PLANS ARE NOT ALLOWED FOR BIDDING AND CONSTRUCTION AS THEY MAY NOT SHOW IRRIGATION SYMBOLS, LINE WEIGHTS, OR LINE TYPES CLEARLY.
- 3. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL VERIFY SITE CONDITIONS, PROPERTY LINES, DIMENSIONS AND THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY'S REPRESENTATIVE. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL SITE CONDITIONS PRIOR TO BIDDING AND COMMENCING WORK
- 5. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- 6. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- 7. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- 8. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SYMBOL SIZES ARE SHOWN FOR DESIGN CLARITY ONLY. CONTRACTOR SHALL MEASURE ALL DISTANCES AND SPACING FROM CENTER OF SYMBOLS ON THE PLAN AND TRANSFER THOSE DISTANCES TO THE FIELD USING A PROPER MEASURING DEVICE SUCH AS A MEASURE TAPE OR WHEEL.
- 9. THE CONTRACTOR UNDERSTANDS IT IS THE INTENT OF THESE DRAWINGS TO IRRIGATE ALL NEW PLANT MATERIAL, UNLESS SPECIFICALLY NOTATED IN THE DRAWINGS THAT A PLANT MATERIAL IS A NON-IRRIGATED TYPE. WHEN PLANT MATERIAL IS SHOWN IN THESE DRAWINGS TO NOT HAVE IRRIGATION SUBSCRIBED TO IT, THE CONTRACTOR SHALL CONTACT THE CITY'S AUTHORIZED REPRESENTATIVE AND/OR THE PROJECT ENGINEER THROUGH THE PROJECT 'REQUEST FOR INFORMATION' (R.F.I.) PROCESS FOR CLARIFICATION AND FURTHER DIRECTION. IT IS THE INTENT OF THESE DRAWINGS THAT ALL NEW PLANT MATERIAL RECEIVE A MINIMUM OF 100% IRRIGATION COVERAGE FROM TWO ADJACENT SPRINKLERS WHEN OVERHEAD SYSTEMS ARE USED, AND AT LEAST ONE OR MORE EMITTER POINTS PER PLANT, AS DIRECTED IN THE DRIP EMITTER LEGEND, WHEN IRRIGATION DRIP SYSTEMS ARE USED. IF THE CONTRACTOR FAILS TO NOTIFY THE CITY'S AUTHORIZED REPRESENTATIVE AND/OR THE PROJECT ENGINEER OF A DISCREPANCY THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR IRRIGATION TO THE PLANT MATERIAL. IRRIGATION SHALL BE OF THE SAME TYPE AS THE SURROUNDING AREA. ULTIMATELY, IT IS RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE IRRIGATION TO EVERY PLANT THAT IS INSTALLED UNDER HIS SUPERVISION.

#### EQUIPMENT / P.O.C. NOTES:

- 10. VERIFY THE ACTUAL LOCATION AND SIZE OF WATER METER AND BOTH STATIC AND DYNAMIC WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE P.O.C INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL P.O.C. INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE PROJECT ENGINEER. SHOULD THE CONTRACTOR FAIL TO FIELD VERIFY THE P.O.C. INFORMATION AND NOTIFY THE ABOVE, ANY ADDITIONAL COSTS INCURRED BY CHANGES REQUIRED TO BE MADE TO THE IRRIGATION SYSTEM BECAUSE OF LOW OR HIGH PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 11. P.O.C. EQUIPMENT LAYOUT INCLUDING, BUT NOT LIMITED TO, IRRIGATION WATER METER, ELECTRICAL STUB-OUT, BACKFLOW ASSEMBLY AND MASTER VALVE IS DIAGRAMMATIC DUE TO THE SCALE OF THE DRAWING. LOCATIONS MAY BE SHOWN WITHIN PAVING AND/OR ORIENTED IN A CERTAIN DIRECTION FOR CLARITY ONLY. PLAN DOES NOT ACCOUNT FOR EQUIPMENT BY OTHERS WITHIN VICINITY OF P.O.C. CONTRACTOR SHALL VERIFY SPECIFIC LAYOUT ORIENTATION AND ACTUAL EQUIPMENT LOCATIONS WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF EQUIPMENT.
- 12. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTION DEVICE AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE CITY'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONTACT REPRESENTATIVE BEFORE COMMENCING WORK
- 13. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT WHERE SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT CONDITIONS EXIST, WHICH ARE NOT INDICATED ON THE PLANS. SUCH CONDITIONS MAY HAVE BEEN UNKNOWN AND NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER AND/OR CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK. SHOULD THE CONTRACTOR FAIL TO NOTIFY THE ABOVE, ANY ADDITIONAL COSTS INCURRED BY REQUIRED CHANGES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE CITY.
- 14. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.

#### CONTROLLER / WIRE NOTES:

- 15. CONTRACTOR SHALL REFER TO IRRIGATION LEGEND FOR CONTROLLER TYPE.
- 16. CONTROLLER SHALL BE BATTERY POWERED WITH OPTIONAL SOLAR POWER.
- 17. CONTRACTOR SHALL ROUTE **THREE** ADDITIONAL 'CONTROL' WIRES AND **ONE** ADDITIONAL 'COMMON' WIRE ALONG ENTIRE MAINLINE ROUTE AND ALONG EACH AND EVERY LEG OF MAINLINE ROUTE. ROUTE WIRES INTO EACH AND EVERY RCV VALVE BOX. WHERE VALVE BOXES ARE GROUPED INTO A MANIFOLD, ROUTE WIRES INTO FIRST VALVE BOX ON MANIFOLD ONLY. SPARE 'CONTROL' WIRES SHALL BE OF A DIFFERENT COLOR THAN THOSE USED ON THE PROJECT. 'COMMON' WIRE SHALL BE OF A DIFFERENT COLOR THAN THAT USED ON THE PROJECT, OR WHITE WITH A STRIPE.
- 18. CONTRACTOR SHALL INSTALL METER WIRE/CABLE WITHIN 1" SCH 40 PVC ELECTRICAL CONDUIT.

#### RCV / QCV NOTES:

- 19. REMOTE CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THIS DRAWING ARE APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY THE CITY'S AUTHORIZED REPRESENTATIVE. MINOR MODIFICATIONS OF REMOTE CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE CITY'S AUTHORIZED REPRESENTATIVE SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT. FAILURE TO OBTAIN CITY'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE PROJECT DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE CITY. IN GENERAL, UNLESS OTHERWISE DIRECTED BY THE CITY, ALL VALVES SHALL BE INSTALLED WITHIN THREE FEET FROM EDGE OF HARDSCAPE, WALK OR CURB IN SHRUB PLANTING AREAS.
- 20. ALL RCV'S SHALL BE INSTALLED ON A SUB-MAIN MANIFOLD. RCV AND SYMBOLS ARE SHOWN DIAGRAMMATICALLY ON TOP OF MAINLINE FOR CLARITY ONLY. PLAN DOES NOT SHOW THE MANIFOLD FOR CLARITY PURPOSES.

#### PIPE / SLEEVE NOTES:

- 21. MAINLINE LAYOUT IS DIAGRAMMATIC DUE TO THE SCALE OF THE DRAWINGS. ROUTING MAY BE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL MAINLINE LOCATION TO BE WITHIN PLANTER, A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP. CONTRACTOR SHALL ADJUST MAINLINE ROUTING TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO TREES, LIGHT POLES, BOLLARDS, FIRE HYDRANTS, DRINKING FOUNTAINS, CONCRETE FOOTINGS, ETC.
- 22. MAINLINE AND/OR LATERAL PIPE ROUTING SHOWN OUTSIDE PROPERTY LINE AND/OR L.O.W. IS DIAGRAMMATIC AND FOR CLARITY ONLY, CONTRACTOR SHALL ROUTE MAINLINE WITHIN PROPERTY LINE AND/OR L.O.W.
- 23. ALL PIPE MATERIAL AND INSTALLATION LABOR REQUIRED FOR MAINLINE OR LATERAL LINE ADJUSTMENTS DUE TO ACCOMMODATIONS IN THE FIELD SHALL BE INCLUDED WITHIN CONTRACTED PRICE AND MAY NOT BE SUBMITTED AS A CHANGE ORDER TO THE ORIGINAL BID.
- 24. NO PVC PIPE MAINLINES SHALL BE ROUTED OR ALLOWED CLOSER THAN 6 FEET FROM ANY TREE TRUNK AT ANY TIME. PIPE ROUTING AS SHOWN ON PLANS IS FOR DIAGRAMMATIC PURPOSES ONLY. WHEN PIPE MUST BE ROUTED CLOSER THAN 6 FEET BECAUSE OF HARDSCAPE CONSTRAINTS OR OTHER OBSTACLES CONTRACTOR SHALL INSTALL MAINLINE PIPE WITHIN SLEEVE WHERE PIPE IS WITHIN 6 FEET OF THE TRUNK AND SO INDICATE THE PIPE ROUTING AND SLEEVE LOCATIONS ON THE AS-BUILT DRAWINGS.
- 25. SLEEVES AND THEIR LOCATIONS ARE DIAGRAMMATICALLY SHOWN FOR CLARITY ONLY. ALL IRRIGATION SLEEVES MAY NOT BE SHOWN FOR CLARITY PURPOSES. CONTRACTOR SHALL INSTALL SLEEVES BELOW ALL PAVING, HARDSCAPE, ETC. AND AS DIRECTED BY THE CITY'S AUTHORIZED REPRESENTATIVE. ALL PIPE UNDER PAVED AREAS SHALL BE INSTALLED IN A SLEEVE, AT MINIMUM TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL SLEEVES TO BE INSTALLED A MINIMUM DEPTH AS SHOWN ON THE PIPE/SLEEVING DETAIL. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- 26. ALL SLEEVE ENDS MUST BE SEALED WITH FOAM SEALANT INSIDE PIPE TO MINIMIZE DEBRIS INTRUSION.
- 27. LATERAL LINES MAY BE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER.
- 28. ALL CONTROL WIRE UNDER PAVED AREAS SHALL BE INSTALLED IN A SLEEVE, SEE LEGEND FOR TYPE. AT MINIMUM SIZE: 2 INCH- FOR UP TO 15 WIRES; 2-1/2 INCH- FOR 16-20 WIRES; 3 INCH- FOR 21-55 WIRES. ALL SLEEVES TO BE INSTALLED A MINIMUM DEPTH AS SHOWN ON THE PIPE/SLEEVING DETAIL. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- 29. ALL MAINLINE SHUT-OFF VALVES TO BE INSTALLED IN VEHICULAR TRAFFIC AREAS SHALL BE CONSTRUCTED OF TRAFFIC RATED PRECAST CONCRETE VALVE BOXES WITH LOCKING STEEL COVERS OR APPROVED EQUAL.
- 30. ALL VALVE BOXES INSTALLED IN PLANTING AREAS SHALL SHALL BE CONSTRUCTED OF POLYPROPYLENE OR EQUIVALENT MATERIAL FOR MAXIMUM DURABILITY, UV PROTECTION AND CORROSION RESISTANCE AND SECURED WITH A LOCK MECHANISM OR BOLT. AUTOMATIC CONTROL VALVE BOXES SHALL BE 16"X11"X12" RECTANGULAR SIZE. VALVE BOX COVERS SHALL BE MARKED "RCV" WITH THE VALVE IDENTIFICATION NUMBER "HEAT BRANDED" ONTO THE COVER IN 2-INCH HIGH LETTERS / NUMBERS.
- 31. GATE VALVE AND QUICK COUPLER VALVE BOXES SHALL BE 10-INCH CIRCULAR SIZE. VALVE BOX COVERS SHALL BE MARKED WITH EITHER "BV" OR "QCV" "HEAT BRANDED" ONTO THE COVER IN 2-INCH HIGH LETTERS.

#### DRIP NOTES:

SUBMITTED BY:

(NAME)

- 32. ALL LATERAL LINES FOR DRIP ZONES SHALL BE PVC SCH 40 PIPE.
- 33. ALL MAINLINES AND LATERAL LINES SHALL BE THOROUGHLY FLUSHED CLEAN BEFORE DRIP MANIFOLD ASSEMBLIES AND/OR DRIP TUBING CONNECTIONS ARE MADE. ALL DRIP TUBING LINES SHALL BE FLUSHED CLEAN BEFORE BACKFILLING.
- 34. FOR TREES: TREE ROOT WATERING UNITS SHALL BE ALIGNED WITH TREES AS SHOWN IN THE DETAILS. CONFIRM ALL PROPOSED LAYOUT IN FIELD WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

#### **Water Efficient Landscape Worksheet**

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ETo) 52.00

Hydrozone # / Planting Description <sup>a</sup>	Plant Factor (PF)	Irrigation Method <sup>b</sup>	Irrigation Efficiency (IE) <sup>c</sup>	ETAF (PF/IE)	Landscape Area (sq, ft,)	ETAF x Area	Estimated To- tal Water Use (ETWU) <sup>e</sup>
Regular Landscape	Areas	-	_				
ZONE 1	0.30	DRIP	0.81	0.37	500	185	5,964
ZONE 2	0.30	DRIP	0.81	0.37	124	46	1,483
ZONE 3	0.30	DRIP	0.81	0.37	124	46	1,483
ZONE 4	0.30	DRIP	0.81	0.37	500	185	5,964
ZONE 5	0.30	DRIP	0.81	0.37	124	46	1,483
ZONE 6	0.50	DRIP	0.81	0.61	300	183	3,578
				Totals	1 672	(B) 691	

Special Landscape	Areas			1,6/2	691	
NONE			1			
			1			
			1			
			Totals	0 (C)	<b>0</b> (D)	
				E.	TWU Total	22,278
		Maximum	Allowed W	ater Allowance	e (MAWA) <sup>e</sup>	24,257

lydrozone #/Planting Description

<sup>b</sup>Irrigation Method overhead spray

Method contribution of the street of the str

dETWU (Annual Gallons Required) = Eto x
0.62 x ETAF x Area

where 0.62 is a conversion factor
that converts acre-inches per

acre per year to gallons per

PLAN NO.

SHEET12OF27

square foot per year.

3.) medium water use planting

\*MAWA (Annual Gallons Allowed) = (Eto) ( 0.62) [ (ETAF x LA) + ((1-ETAF) x SLA)]

where 0.62 is a conversion factor that converts acreinches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for nonresidential areas.

#### **ETAF Calculations**

1.) front lawn

2.) low water use plantings

 Regular Landscape Area

 Total ETAF x Area
 (B)
 691

 Total Area
 (A)
 1,672

 Average ETAF
 B ÷ A
 0.41

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for nonresidential areas.

#### All Landscape Area

Sitewide ETAF	(B+D) ÷ (A+C)	0.41
Total Area	(A+C)	1,672
Total ETAF x Area	(B+D)	691

DESIGNER STATEMENT:
"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE PLANS."

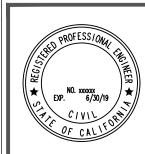


NUMBER DATE INITIALS APPV'D.



PUBLIC WORKS DEPARTMENT

CITY ENGINEER, RCE XXXXX



DATE

Plans Prepared By:

TETRA TECH

17885 VON KARMAN AVE #500

IRVINE, CA 92614

PHONE: (949) 809-5000

ARIC TORREYSON, P.E.

PLANS PREPARED UNDER THE SUPERVISION OF:

DATE:

DESIGN BY: ARIC TORREYSON 8/18/2023

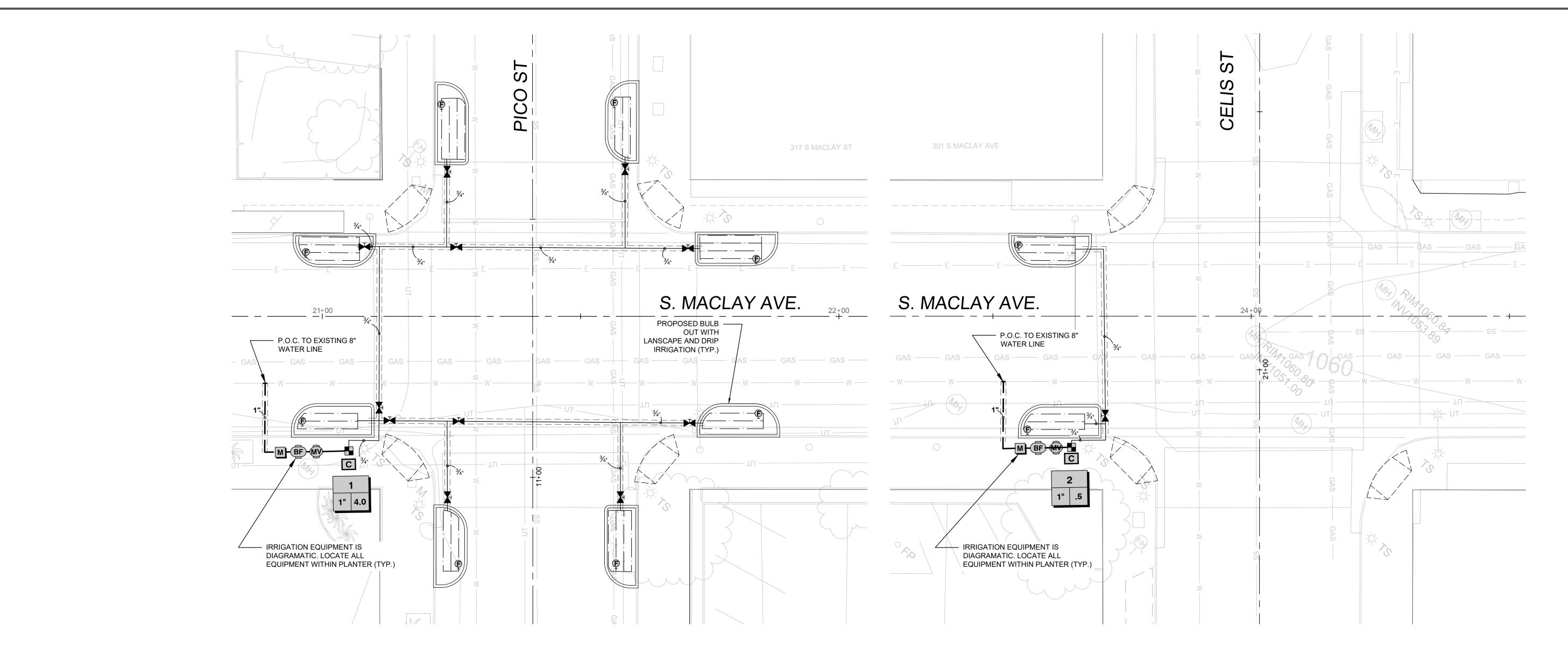
DRAWN BY: RYAN CHEYNE 8/18/2023

CHECKED BY: ARIC TORREYSON 8/18/2023

CALLES VERDES PROJECT

IRRIGATION NOTES

CITY OF SAN FERNANDO

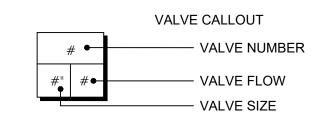


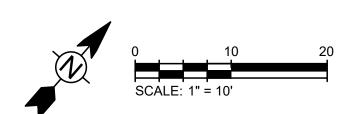
#### IRRIGATION SCHEDULE

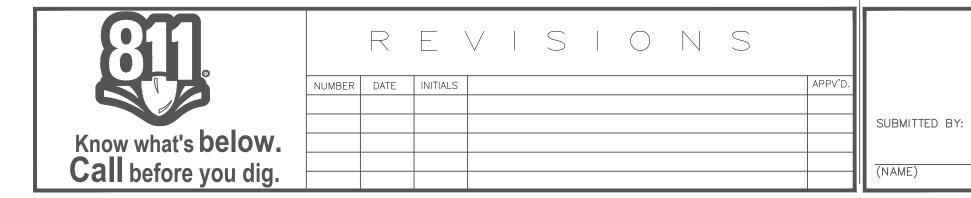
MANUFACTURER/MODEL/DESCRIPTION	QTY	<u>DETAIL</u>	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>	<u>PSI</u>	<u>DETAIL</u>
NETAFIM LVCZS8010075-LF 1" PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1IN. INLET X 3/4 IN. OUTLET, SERIES 80 CONTROL VALVE, 3/4 IN. DISC FILTER, AND LOW FLOW PRESSURE REGULATOR	6	DETAIL 2, SHEET I-7	BF	FEBCO 825YA 3/4" REDUCED PRESSURE BACKFLOW PREVENTER WITH LINE SIZE ZERN MODEL 500XL PRESSURE REDUCING VALVE AND "Y" TYPE STRAINER OR APPROVED EQUAL.	5		DETAIL 1, SHEET I-8
RAIN BIRD PEB-PRS-D 1" 1IN., 1-1/2IN., 2IN., 3IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.	2	DETAIL 4, SHEET I-7	С	HUNTER NODE-BT-100 CONTROLLER 1 STATION, BLUETOOTH BATTERY OPERATED CONTROLLER AND DC-LATCHING SOLENOID. INCLUDE SC-PROBE FOR MOISTURE SENSING FOR EACH CONTROLLER. INSTALL IN ZONE REMOTE CONTROL VALVE BOX.	5		DETAIL 2, SHEET I-7
NETAFIM TLSOV NETAFIM TLSOV- 1/2IN. MANUAL FLUSH VALVE, BARBED INSERT. INSTALL IN 10IN. BOX, WITH ADEQUATE BLANK TUBING TO EXTEND VALVE OUT OF VALVE BOX.	30	DETAIL 7, SHEET I-7	М	CONTRACTOR SHALL ARRANGE FOR INSTALLATION OF NEW 3/4" WATER METER SERVICE WITH SFWD FOR EACH IRRIGATION P.O.C. INDICATED HEREIN, REFER TO CITY OF SAN FERNANDO METER INSTALLATION.	5		SAN FERNANDO CITY DETAIL, PLATE NO. 20
AREA TO RECEIVE DRIPLINE NETAFIM TLCV-04-12 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.4 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" O.C. APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN LOCATED 3" BELOW SURFACE AND BENEATH 3" LAYER OF MULCH.	2,700 1.1.	DETAIL 5 & 6, SHEET I-7	<b>♥</b> 1401	RAIN BIRD RWS-B-C W/ RWS-SOCK 1400 SERIES ROOT WATERING SYSTEM WITH 4IN. DIAMETER X 36IN. LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE. CHECK VALVE AND SAND SOCK. RAIN BIRD BUBBLER OPTION AS INDICATED: 1401 0.25 GPM IRRIGATION LATERAL LINE: PVC SCHEDULE 40	50	40	DETAIL 6, SHEET I-7
NIBCO BRONZE BALL VALVE T-585-70	26	DETAIL 3, SHEET I-7		IRRIGATION MAINLINE: PVC SCHEDULE 40			
SUPERIOR 3000 1" NORMALLY CLOSED BRASS MASTER VALVE	5	DETAIL 1, — = = = = = = = = = = = = = = = = = =	=====	PIPE SLEEVE: PVC SCHEDULE 40			
HUNTER, MODEL HQ-33-DLRC, QUICK COUPLER	1	DETAIL 2, SHEET I-8					
	NETAFIM LVCZS8010075-LF 1" PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1IN. INLET X 3/4 IN. OUTLET, SERIES 80 CONTROL VALVE, 3/4 IN. DISC FILTER, AND LOW FLOW PRESSURE REGULATOR 0.25GPM-4.4GPM  RAIN BIRD PEB-PRS-D 1" 1IN., 1-1/2IN., 2IN., 3IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.  NETAFIM TLSOV NETAFIM TLSOV- 1/2IN. MANUAL FLUSH VALVE, BARBED INSERT. INSTALL IN 10IN. BOX, WITH ADEQUATE BLANK TUBING TO EXTEND VALVE OUT OF VALVE BOX.  AREA TO RECEIVE DRIPLINE NETAFIM TLCV-04-12 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.4 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" O.C. APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN LOCATED 3" BELOW SURFACE AND BENEATH 3" LAYER OF MULCH.  NIBCO BRONZE BALL VALVE T-585-70  SUPERIOR 3000 1" NORMALLY CLOSED BRASS MASTER VALVE	NETAFIM LVCZS8010075-LF 1" PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1IN. INLET X 3/4 IN. OUTLET, SERIES 80 CONTROL VALVE, 3/4 IN. DISC FILTER, AND LOW FLOW PRESSURE REGULATOR 0.25GPM-4.4GPM  RAIN BIRD PEB-PRS-D 1" 1IN., 1-1/2IN., 2IN., 3IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.  NETAFIM TLSOV NETAFIM TLSOV- 1/2IN. MANUAL FLUSH VALVE, BARBED INSERT. INSTALL IN 10IN. BOX, WITH ADEQUATE BLANK TUBING TO EXTEND VALVE OUT OF VALVE BOX.  AREA TO RECEIVE DRIPLINE NETAFIM TLCV-04-12 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.4 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" O.C. APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN LOCATED 3" BELOW SURFACE AND BENEATH 3" LAYER OF MULCH.  NIBCO BRONZE BALL VALVE T-585-70  5 SUPERIOR 3000 1" NORMALLY CLOSED BRASS MASTER VALVE	NETAFIM LVCZS8010075-LF 1" PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1IN. INLET X 3/4 IN. OUTLET, SERIES 80 CONTROL VALVE, 3/4 IN. 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DISC FILTER, AND LOW FLOW PRESSURE REGULATOR 0.25GPM-4.4GPM RAIN BIRD PEB-PRS-D 1" 1IN., 1-1/2IN., 2IN., 3IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.  NETAFIM TLSOV NETAFIM TLSOV- 1/2IN. MANUAL FLUSH VALVE, BARBED INSERT. INSTALL IN 10IN. BOX, WITH ADEQUATE BLANK TUBING TO EXTEND VALVE OUT OF VALVE BOX.  AREA TO RECEIVE DRIPLINE NETAFIM TLCV-04-12 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.4 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" O.C. APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN LOCATED 3" BELOW SURFACE AND BENEATH 3" LAYER OF MULCH.  NIBCO BRONZE BALL VALVE T-585-70  SUPERIOR 3000 1" NORMALLY CLOSED BRASS MASTER VALVE  HUNTER MODEL HO 33-DIRC OLUCK COLUB ER  1 DETAIL 2,  DETAIL 2,  DETAIL 2,  DETAIL 2,  DETAIL 2,  DETAIL 2,	NETAFIM LVCZS8010075-LF 1" PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1IN. INLET X 3d IN. OUTLET, SERIES 80 CONTROL VALVE, 3d IN. DISC FILTER, AND LOW FLOW PRESSURE REGULATOR 0.25GPM-4.4GPM 0.25GPM-4.4GPM 1IN., 1-1/2/IN., 2IN., 3IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.  NETAFIM TLSOV NETAFIM TLSOV 1/2/IN. MANUAL FLUSH VALVE, BARBED INSERT. INSTALL IN 10IN. BOX, WITH ADEQUATE BLANK TUBING TO EXTEND VALVE OUT OF VALVE BOX.  AREA TO RECEIVE DRIPLINE NETAFIM TLCV-04-12 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.4 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" O.C. APABIT, WITH NIBCO BRONZE BALL VALVE T-585-70  DETAIL 3, SHEET 1-7  DETAIL 3, SHEET 1-7  DETAIL 3, SHEET 1-7  DETAIL 3, SHEET 1-7  BE  FEBCO 825YA 3/4" REDUCED PRESSURE BACKFLOW PREVENTER WITH LINE SIZE ZERM MODEL 500XL PRESSURE REDUCING VALVE AND "Y" TYPE STRAINER OR APPROVED EQUAL. HUNTER NODE-BT-100 CONTROLLER REDUCED PRESSURE REDUCING VALVE AND "Y" TYPE STRAINER OR APPROVED EQUAL. 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HUNTER MODE-BT-100 CONTROLLER  BE  FEBCO 825YA 344  HUNTER MODE-BT-100 CONTROLLER  TO CONTROLLER 1 STATION, BLUTEOT HAT BEDUCED CONTROLLER 1 STATIO	NETAFIM LVCZS8010075-LF 1" PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1IN. INLET X 3/4 IN. OUTLET, SERIES 80 CONTROL VALVE, 3/4 IN. DISC FILTER, AND LOW FLOW PRESSURE REGULATOR 0.25GPM-4 4GPM  RAIN BIRD PEB-PRS-D 1" 1IN, 1-1/2IN., 2IN., 3IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.  NETAFIM TLSOV- TUBING TO EXTERD VALVE UP OPERATING CAPABILITY, TUBING TO EXTERD VALVE OUT OF VALVE BOX.  AREA TO RECEIVE DRIPLINE NETAFIM TLSOV- NETAFIM TLSOV- TUBING TO EXTERD VALVE OUT OF VALVE BOX.  AREA TO RECEIVE DRIPLINE NETAFIM TLSOV- NETAFIM TLSOV- TUBING TO EXTERD VALVE OUT OF VALVE BOX.  AREA TO RECEIVE DRIPLINE NETAFIM TLSOV- NETAFIM TLSOV- TUBING TO EXTERD VALVE OUT OF VALVE BOX.  AREA TO RECEIVE DRIPLINE NETAFIM TLSOV- TUBING TO EXTERD VALVE OUT OF VALVE BOX.  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TUBING TO THE VALVE WITH A INDIAMETER AT 12" TUBING TO THE VALVE WITH	NETAFIM LVCZS8010075-LF 1" PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1IN. INLET X 3/4 IN. OUTLET, SERIES 80 CONTROL VALVE, 3/4 IN. DISC FILTER, AND LOW FLOW PRESSURE REGULATOR 0.25GPM-4 4GPM RAIN BIRD PEB-PRS-D 1" 1IN. 1-1/2IN., 2IN., 3IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE. NETAFIM TLSOV NETAFIM TLSOV- 1/2IN. MANUAL FLUSH VALVE, BARBED INSERT. INSTALL IN 10IN. BOX, WITH ADEQUATE BLANK TUBING TO EXTEND VALVE OUT OF VALVE BOX.  AREA TO RECEIVE DRIPLLINE NETAFIM TLCV4-4-12 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 1.04 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" O.C. APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN LOCATED 3/5 BELOW SURFACE AND BENEATH 3" LAYER OF MULCH.  NIBCO BRONZE BALL VALVE T-585-70  SUPERIOR 3000 1" NORMALLY CLOSED BRASS MASTER VALVE  HINTER MODEL HO-33D IB C QUICK COURLER.  1. SHEET 1-7  FEBCO 825YA 3/4" REDUCED PRESSURE BACKFLOW PREVENTER WITH LINE 5 SLEET I-7 REDUCED PRESSURE BACKFLOW PREVENTER WITH LINE 5 SLEET I-7  FEBCO 825YA 3/4" REDUCED PRESSURE BACKFLOW PREVENTER WITH LINE 5 SIZE ZERM MODEL 50XX 14" REDUCED PRESSURE BACKFLOW PREVENTER WITH LINE 5 SIZE ZERM MODEL 50XX 14" REDUCED PRESSURE BACKFLOW PREVENTER WITH LINE 5 SIZE ZERM MODEL 50XX 14" NORTH LOCATED HEAD OF SALVE AND Y" TYPE STRAINER OR APPROVED EQUAL.  HUNTER NODEL SOX, 14" REDUCED PRESSURE BACKFLOW PREVENTER WITH LINE 5 SIZE ZERM MODEL 50XX 14" STATION, BLUETOOTH BATTERY OP FRATED 1. STATIO

#### ADDITIONAL NOTES:

- 1. PROTECT IN PLACE ALL CONDUIT. CONTRACTOR IS RESPONSIBLE FOR REPAIRING/REPLACING
- ANY CONDUIT DAMAGED DURING THE SCOPE OF THIS PROJECT. 2. THE CONTRACTOR SHALL SLEEVE ALL IRRIGATION PIPE UNDER PAVED AREAS. SLEEVING SHALL BE 2 TIMES THE PIPE DIAMETER, MINIMUM SCHEDULE 80 PVC, 36" MINIMUM DEPTH
- TO TOP OF LINE. OPEN TRENCHING WILL ONLY BE ALLOWED WITHIN MEDIANS AND ASPHALT PAVED AREAS SHOWN ON THE PLANS. 3. THE CONTRACTOR SHALL BORE UNDER ALL EXISTING CONCRETE CURBS, GUTTERS, CROSS GUTTERS,
- DRIVEWAYS AND SIDEWALKS. MAINTAIN 6" MINIMUM SPACING BETWEEN TECHLINE CV AND ANY PAVED EDGE/CURB.
- 5. VALVE BOXES SHOWN IN ROAD OR PAVED AREAS ARE INTENDED TO BE INSTALLED WITHIN THE PLANTERS. WHEN IT IS NOT FEASIBLE TO INSTALL IRRIGATION VALVE EQUIPMENT WITHIN THE PLANTERS, TRAFFIC RATED PRECAST CONCRETE VALVE BOXES ARE REQUIRED.

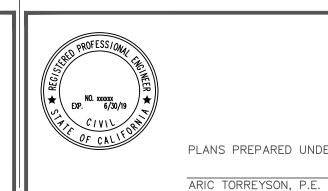






PUBLIC WORKS DEPARTMENT

CITY ENGINEER, RCE XXXXX



DATE

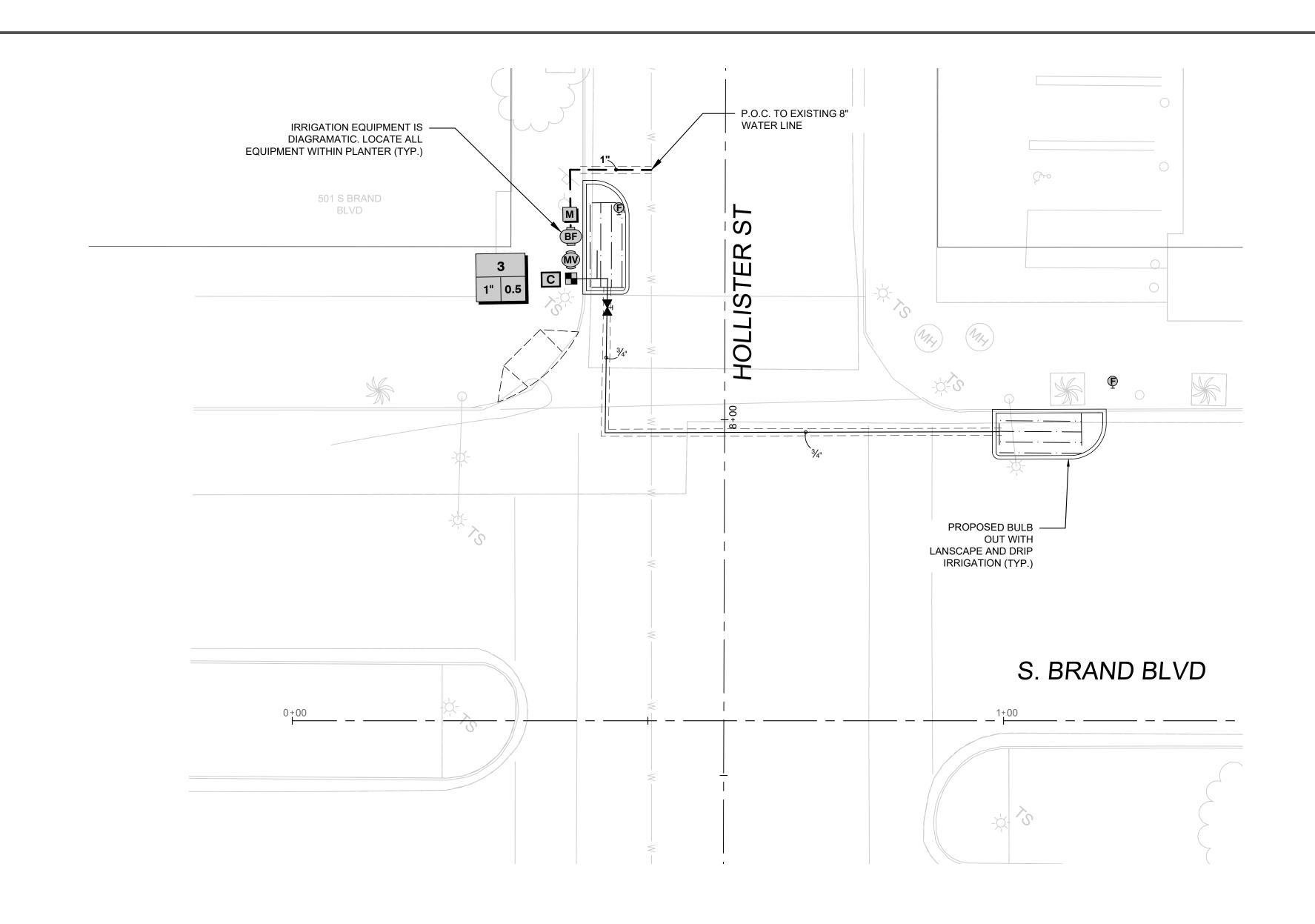


CALLES VERDES PROJECT S MACLAY AVENUE IRRIGATION PLAN

**I-2** 

PLAN NO.

CITY OF SAN FERNANDO SHEET 130F27



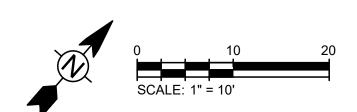
#### IRRIGATION SCHEDULE

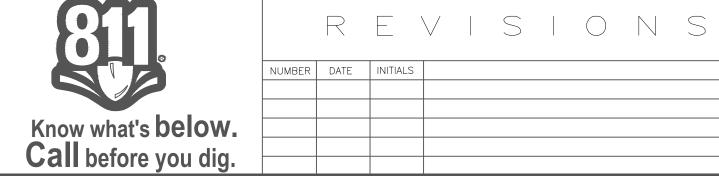
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>	DETAIL	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	<u>PSI</u>	<u>DETAIL</u>
	NETAFIM LVCZS8010075-LF 1" PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1IN. INLET X 3/4 IN. OUTLET, SERIES 80 CONTROL VALVE, 3/4 IN. DISC FILTER, AND LOW FLOW PRESSURE REGULATOR 0.25GPM-4.4GPM	6	DETAIL 2, SHEET I-7	BF	FEBCO 825YA 3/4" REDUCED PRESSURE BACKFLOW PREVENTER WITH LINE SIZE ZERN MODEL 500XL PRESSURE REDUCING VALVE AND "Y" TYPE STRAINER OR APPROVED EQUAL.	5		DETAIL 1, SHEET I-8
	RAIN BIRD PEB-PRS-D 1"  1IN., 1-1/2IN., 2IN., 3IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.	2	DETAIL 4, SHEET I-7	С	HUNTER NODE-BT-100 CONTROLLER 1 STATION, BLUETOOTH BATTERY OPERATED CONTROLLER AND DC-LATCHING SOLENOID. INCLUDE SC-PROBE FOR MOISTURE SENSING FOR EACH CONTROLLER. INSTALL IN ZONE REMOTE CONTROL VALVE BOX.	5		DETAIL 2, SHEET I-7
<b>(P</b> )	NETAFIM TLSOV NETAFIM TLSOV- 1/2IN. MANUAL FLUSH VALVE, BARBED INSERT. INSTALL IN 10IN. BOX, WITH ADEQUATE BLANK TUBING TO EXTEND VALVE OUT OF VALVE BOX.	30	DETAIL 7, SHEET I-7	М	CONTRACTOR SHALL ARRANGE FOR INSTALLATION OF NEW 3/4" WATER METER SERVICE WITH SFWD FOR EACH IRRIGATION P.O.C. INDICATED HEREIN, REFER TO CITY OF SAN FERNANDO METER INSTALLATION.	5		SAN FERNANDO CITY DETAIL, PLATE NO. 20
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-04-12 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.4 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" O.C. APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN LOCATED 3" BELOW SURFACE AND BENEATH 3" LAYER OF MULCH.	2,700 l.f.	DETAIL 5 & 6, SHEET I-7	<b>♥</b> 1401	RAIN BIRD RWS-B-C W/ RWS-SOCK 1400 SERIES ROOT WATERING SYSTEM WITH 4IN. DIAMETER X 36IN. LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE. CHECK VALVE AND SAND SOCK. RAIN BIRD BUBBLER OPTION AS INDICATED: 1401 0.25 GPM IRRIGATION LATERAL LINE: PVC SCHEDULE 40	50	40	DETAIL 6, SHEET I-7
×	NIBCO BRONZE BALL VALVE T-585-70	26	DETAIL 3, SHEET I-7		IRRIGATION MAINLINE: PVC SCHEDULE 40			
(MV)	SUPERIOR 3000 1" NORMALLY CLOSED BRASS MASTER VALVE	5	DETAIL 1, — = = = = = = = = = = = = = = = = = =		PIPE SLEEVE: PVC SCHEDULE 40			
	HUNTER, MODEL HQ-33-DLRC, QUICK COUPLER	1	DETAIL 2, SHEET I-8					

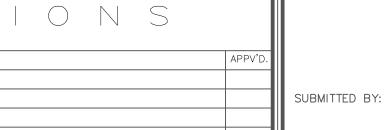
#### ADDITIONAL NOTES:

- 1. PROTECT IN PLACE ALL CONDUIT. CONTRACTOR IS RESPONSIBLE FOR REPAIRING/REPLACING
- ANY CONDUIT DAMAGED DURING THE SCOPE OF THIS PROJECT. 2. THE CONTRACTOR SHALL SLEEVE ALL IRRIGATION PIPE UNDER PAVED AREAS. SLEEVING
- SHALL BE 2 TIMES THE PIPE DIAMETER, MINIMUM SCHEDULE 80 PVC, 36" MINIMUM DEPTH TO TOP OF LINE. OPEN TRENCHING WILL ONLY BE ALLOWED WITHIN MEDIANS AND ASPHALT PAVED AREAS SHOWN ON THE PLANS.
- 3. THE CONTRACTOR SHALL BORE UNDER ALL EXISTING CONCRETE CURBS, GUTTERS, CROSS GUTTERS, DRIVEWAYS AND SIDEWALKS.
  - MAINTAIN 6" MINIMUM SPACING BETWEEN TECHLINE CV AND ANY PAVED EDGE/CURB.
- 5. VALVE BOXES SHOWN IN ROAD OR PAVED AREAS ARE INTENDED TO BE INSTALLED WITHIN THE PLANTERS. WHEN IT IS NOT FEASIBLE TO INSTALL IRRIGATION VALVE EQUIPMENT WITHIN THE PLANTERS, TRAFFIC RATED PRECAST CONCRETE VALVE BOXES ARE REQUIRED.

VALVE CALLOUT VALVE NUMBER - VALVE FLOW — VALVE SIZE



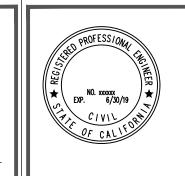




(NAME)



CITY ENGINEER, RCE XXXXX



DATE

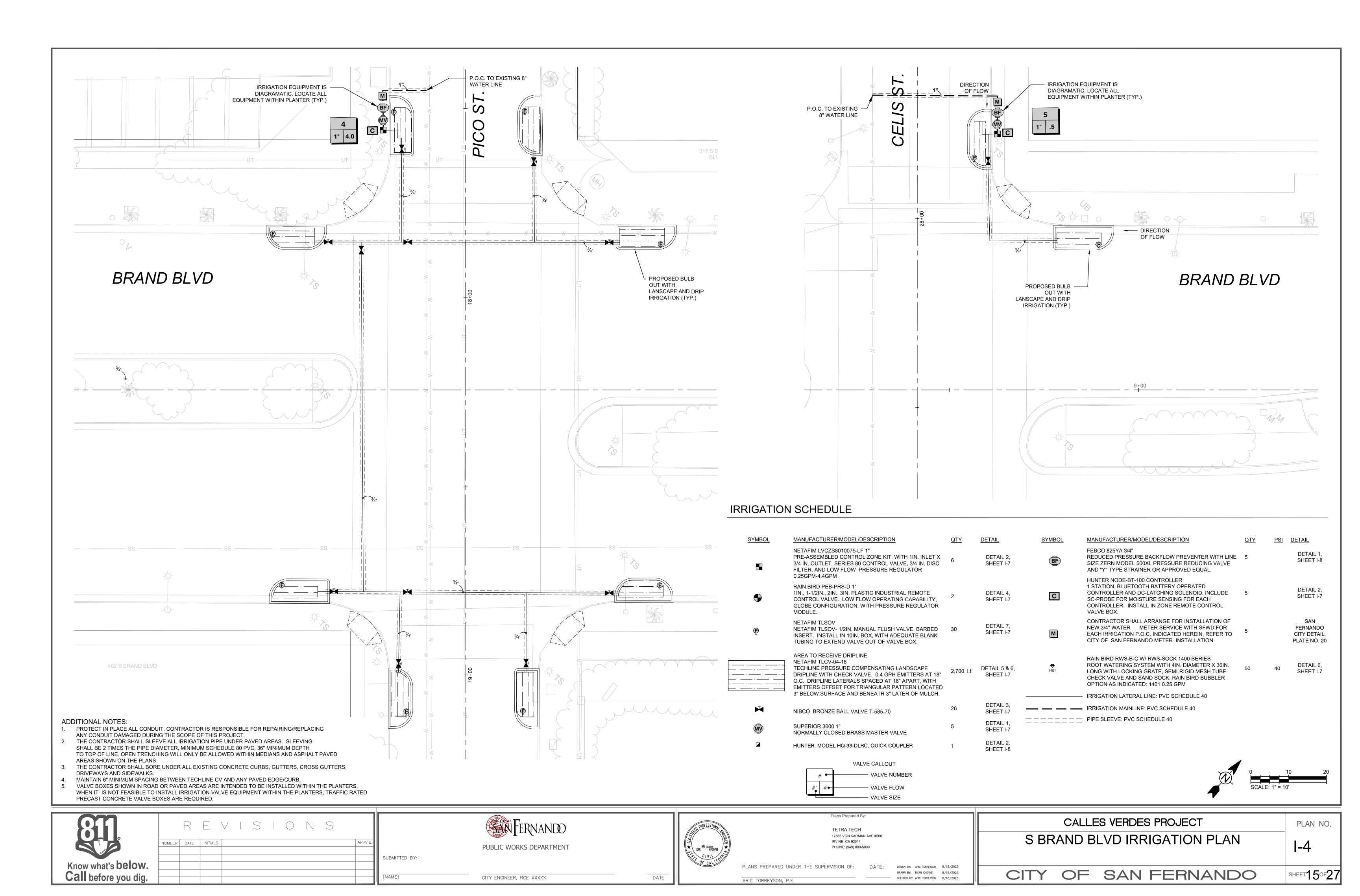


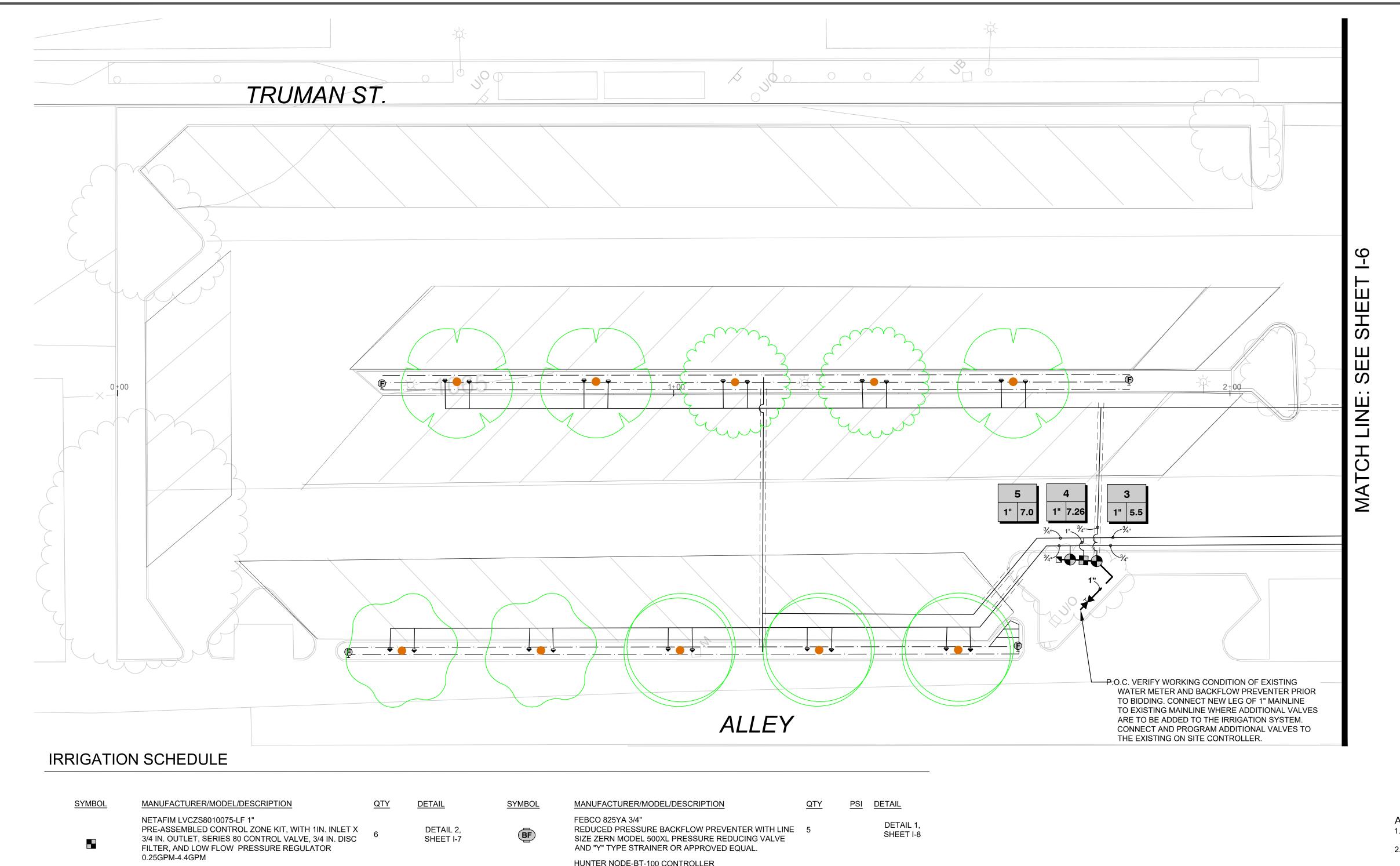
CALLES VERDES PROJECT
S BRAND BLVD IRRIGATION PLAN

PLAN NO.

SHEET 14 OF 27

CITY OF SAN FERNANDO





	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>	DETAIL	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>	<u>PSI</u>	DETAIL
		NETAFIM LVCZS8010075-LF 1" PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1IN. INLET X 3/4 IN. OUTLET, SERIES 80 CONTROL VALVE, 3/4 IN. DISC FILTER, AND LOW FLOW PRESSURE REGULATOR 0.25GPM-4.4GPM	6	DETAIL 2, SHEET I-7	BF	FEBCO 825YA 3/4" REDUCED PRESSURE BACKFLOW PREVENTER WITH LINE SIZE ZERN MODEL 500XL PRESSURE REDUCING VALVE AND "Y" TYPE STRAINER OR APPROVED EQUAL.	5		DETAIL 1, SHEET I-8
	•	RAIN BIRD PEB-PRS-D 1"  1IN., 1-1/2IN., 2IN., 3IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.	2	DETAIL 4, SHEET I-7	C	HUNTER NODE-BT-100 CONTROLLER 1 STATION, BLUETOOTH BATTERY OPERATED CONTROLLER AND DC-LATCHING SOLENOID. INCLUDE SC-PROBE FOR MOISTURE SENSING FOR EACH CONTROLLER. INSTALL IN ZONE REMOTE CONTROL VALVE BOX.	5		DETAIL 2, SHEET I-7
	<b>©</b>	NETAFIM TLSOV NETAFIM TLSOV- 1/2IN. MANUAL FLUSH VALVE, BARBED INSERT. INSTALL IN 10IN. BOX, WITH ADEQUATE BLANK TUBING TO EXTEND VALVE OUT OF VALVE BOX.	30	DETAIL 7, SHEET I-7	М	CONTRACTOR SHALL ARRANGE FOR INSTALLATION OF NEW 3/4" WATER METER SERVICE WITH SFWD FOR EACH IRRIGATION P.O.C. INDICATED HEREIN, REFER TO CITY OF SAN FERNANDO METER INSTALLATION.	5		SAN FERNANDO CITY DETAIL, PLATE NO. 20
· · · _ · _ · _ · _ · _ · _ · _		AREA TO RECEIVE DRIPLINE NETAFIM TLCV-04-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.4 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN LOCATED 3" BELOW SURFACE AND BENEATH 3" LATER OF MULCH.	2,700 l.f.	DETAIL 5 & 6, SHEET I-7	<b>♥</b> 1401	RAIN BIRD RWS-B-C W/ RWS-SOCK 1400 SERIES ROOT WATERING SYSTEM WITH 4IN. DIAMETER X 36IN. LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE. CHECK VALVE AND SAND SOCK. RAIN BIRD BUBBLER OPTION AS INDICATED: 1401 0.25 GPM IRRIGATION LATERAL LINE: PVC SCHEDULE 40	50	40	DETAIL 6, SHEET I-7
	×	NIBCO BRONZE BALL VALVE T-585-70	26	DETAIL 3, SHEET I-7		IRRIGATION MAINLINE: PVC SCHEDULE 40			
	Ŵ	SUPERIOR 3000 1" NORMALLY CLOSED BRASS MASTER VALVE	5	DETAIL 1, SHEET I-7		PIPE SLEEVE: PVC SCHEDULE 40			
		HUNTER, MODEL HQ-33-DLRC, QUICK COUPLER	1	DETAIL 2, SHEET I-8					

SUBMITTED BY:

#### ADDITIONAL NOTES:

- 1. PROTECT IN PLACE ALL CONDUIT. CONTRACTOR IS RESPONSIBLE FOR REPAIRING/REPLACING ANY CONDUIT DAMAGED DURING THE SCOPE OF THIS PROJECT.
- 2. THE CONTRACTOR SHALL SLEEVE ALL IRRIGATION PIPE UNDER PAVED AREAS. SLEEVING SHALL BE 2 TIMES THE PIPE DIAMETER, MINIMUM SCHEDULE 80 PVC, 36" MINIMUM DEPTH TO TOP OF LINE. OPEN TRENCHING WILL ONLY BE ALLOWED WITHIN MEDIANS AND ASPHALT PAVED AREAS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL BORE UNDER ALL EXISTING CONCRETE CURBS, GUTTERS, CROSS GUTTERS, DRIVEWAYS AND SIDEWALKS.
- MAINTAIN 6" MINIMUM SPACING BETWEEN TECHLINE CV AND ANY PAVED EDGE/CURB.
- VALVE BOXES SHOWN IN ROAD OR PAVED AREAS ARE INTENDED TO BE INSTALLED WITHIN THE PLANTERS. WHEN IT IS NOT FEASIBLE TO INSTALL IRRIGATION VALVE EQUIPMENT WITHIN THE PLANTERS, TRAFFIC RATED PRECAST CONCRETE VALVE BOXES ARE REQUIRED.

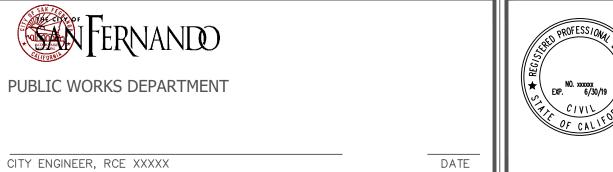




NUMBER DATE INITIALS



PUBLIC WORKS DEPARTMENT





VALVE CALLOUT

- VALVE NUMBER

VALVE FLOW VALVE SIZE

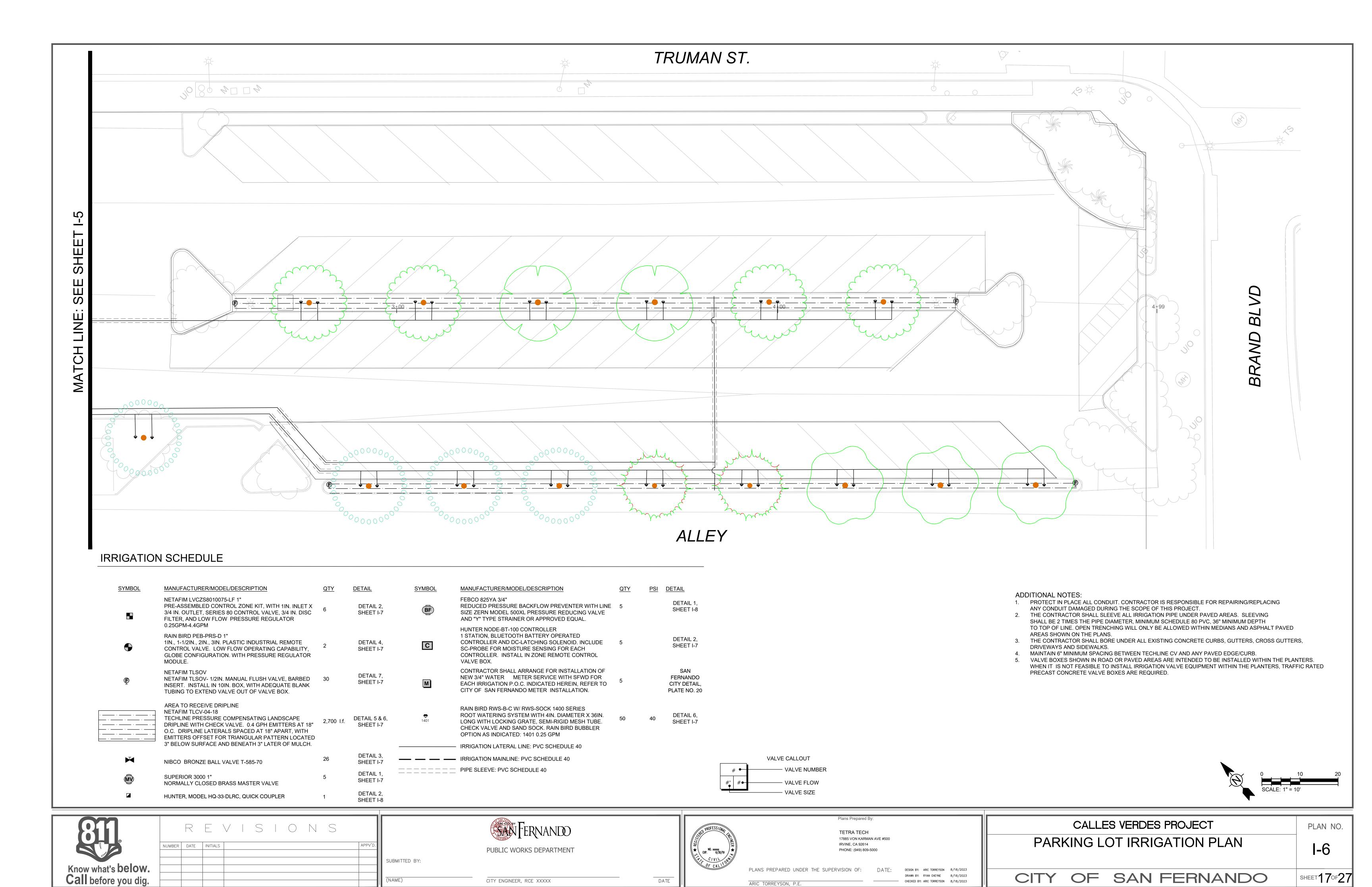
> CALLES VERDES PROJECT PARKING LOT IRRIGATION PLAN

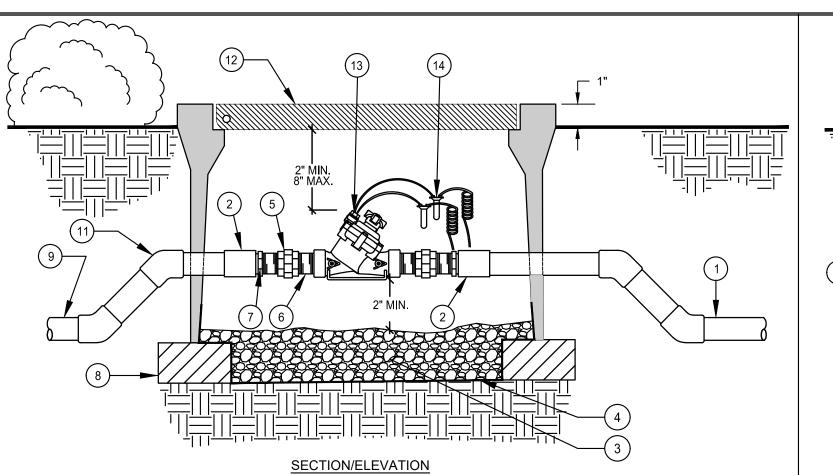
PLAN NO.

**I-5** 

CITY OF SAN FERNANDO

SHEET 160F27





A. USE TEFLON TAPE ON ALL MALE THREADS WITHIN ASSEMBLY.

MASTER VALVE ASSEMBLY

B. USE PVC SCH 80 45 DEGREE ELLS TO TRANSITION TO MAINLINE DEPTH. C. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

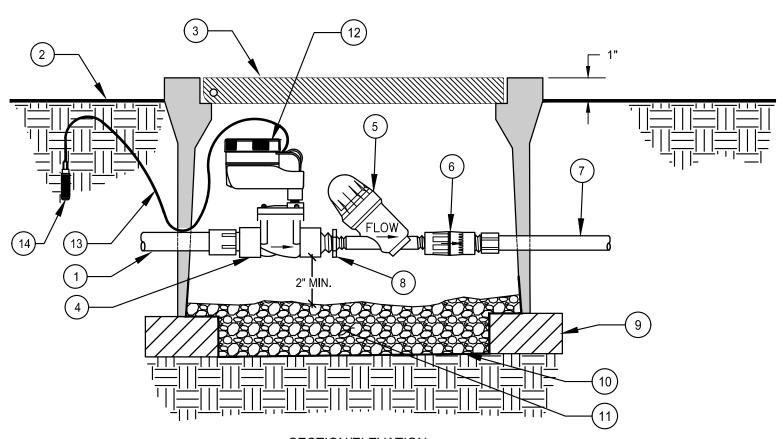
LEGEND

1. PVC MAINLINE PIPE TO FLOW SENSOR AS

- 2. PVC SCH 80 SLIP COUPLER, AS REQUIRED
- 3. 3/4" CRUSHED GRAVEL, MINIMUM 6" DEPTH
- 4. LANDSCAPE FABRIC

SCALE: NTS

- 5. PVC SCH 80 UNION (2 REQ.)
- 6. PVC SCH 80 NIPPLE, MIN. LENGTH 3", VALVE
- 7. PVC SCH 80 REDUCER SLIPxTHRD BUSHING, SF, MAINLINE SIZE x VALVE SIZE (2 REQ.)
- NOMINAL SIZE SOLID BRICK (4 REQ.)
- 9. PVC MAINLINE PIPE FROM BACKFLOW PREVENTION DEVICE
- 10. FINISH GRADE
- 11. USE PVC SCH 80 45 DEGREE ELLS TO TRANSITION TO MAINLINE DEPTH
- 12. POLYPROPYLENE VALVE BOX AND LOCKABLE LID WITH ENGRAVED 'MV' ON LID
- 13. MASTER CONTROL VALVE. REFER TO LEGEND FOR SPECIFICATION
- 14. CONTROL WIRES WITH WATER TIGHT SPLICES PROVIDE 24" COIL OF WIRE AT



SECTION/ELEVATION

- A. USE TEFLON TAPE ON ALL MALE THREADS WITHIN ASSEMBLY.
- B. USE PVC SCH 80 45 DEGREE ELLS TO TRANSITION TO MAINLINE DEPTH. C. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

<u>LEGEND</u>

- 8. 1" X 3/4" SCH 40 RED BUSHING TxT
- 1. PVC MAINLINE PIPE 2. FINSH GRADE
- 3. POLYPROPYLENE VALVE BOX AND LOCKABLE LID WITH ENGRAVED 'RCV' ON LID
- 4. REMOTE CONTROL VALVE 1" FPT

SCALE: NTS

- 5. 3/4" DISC FILTER
- 6. 3/4" PRV 45 PSI LF
- 7. PVC OR POLY LATERAL LINE
- 9. BRICK SUPPORTS (EACH CORNER)
- 10. LANDSCAPE FABRIC
- 11. 3/4" GRAVEL SUMP (1 CUBIC FOOT)
- 12. HUNTER BT -100 CONTROLLER
- 13. SC-PROBE CABLE TO CONTROLLER
- 14. HUNTER SOIL MOISTURE PROBE (SC-PROBE) INSTALLED AT 50% OF
  - 6. FINISH GRADE
- NETAFIM LOW VOLUME CONTROL ZONE ASSEMBLY WITH HUNTER BT-100 NODE CONTROLLER 3 ISOLATION VALVE

8. PVC SCH 80 REDUCING BUSHING, SF, MAINLINE SIZE x VALVE SIZE

9. PVC SCH 80 NIPPLE, 3" LENGTH (2 REQ.)

8" MAX (9)(8)(

SECTION/ELEVATION

F. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER

D. REDUCING BUSHINGS ONLY REQUIRED WHEN VALVE IS SIZED SMALLER THAN MAINLINE.

NOTES:

A. USE TEFLON TAPE ON ALL MALE THREADS WITHIN ASSEMBLY.

E. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS.

B. USE 45 DEGREE ELLS TO TRANSITION TO MAINLINE DEPTH.

C. INSTALL VALVE CENTERED IN BOX.

1. PVC SCH 80 45 DEGREE ELL

5. IRRIGATION LATERAL LINE

3. 3/4" CRUSHED GRAVEL, MIN. 5"-6" DEPTH

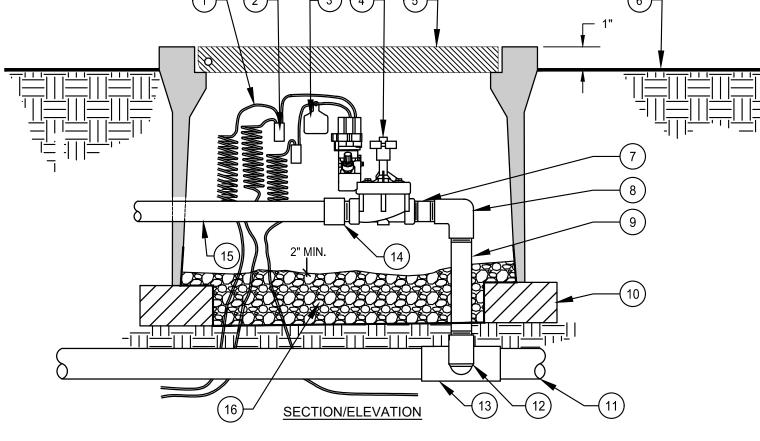
4. SOLID BRICK, NOMINAL SIZE (MIN. 4 REQ.)

7. PVC SCH 80 COUPLER, SS, MAINLINE SIZE

2. LANDSCAPE FABRIC

IS HIGHER.

- 10. BALL VALVE, REFER TO LEGEND FOR TYPE. INSTALL SHUTOFF HANDLE PERPENDICULAR TO **BOX LID**
- 11. PVC SCH 80 TT UNION, SIZE PER VALVE
- 12. PVC SCH 80 MALE ADAPTER
- 13. POLYPROPYLENE VALVE BOX AND LOCKABLE LID WITH ENGRAVED 'BV' ON LID



A. USE TEFLON TAPE ON ALL MALE THREADS WITHIN ASSEMBLY.

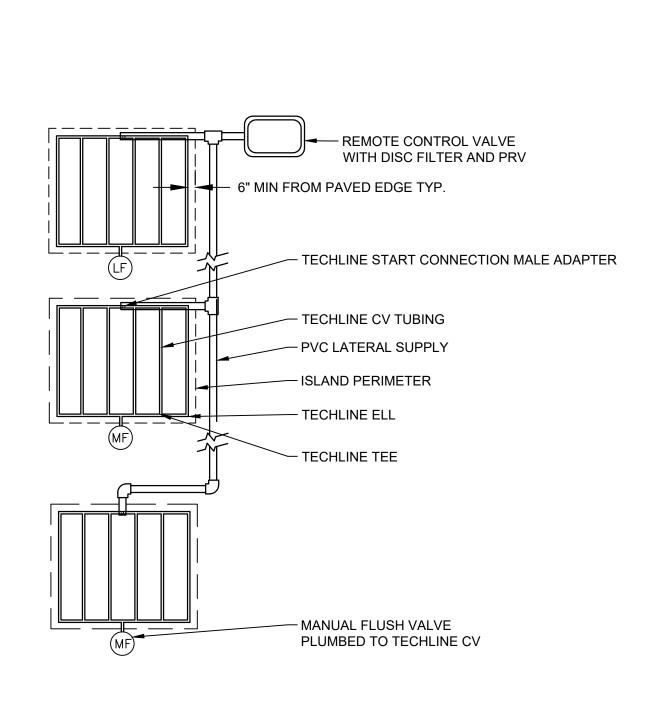
- B. USE PVC SCH 80 45 DEGREE ELLS TO TRANSITION TO MAINLINE DEPTH.
- C. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

- 1. 30-INCH LINEAR LENGTH OF WIRE, COILED
- 2. WATERPROOF CONNECTION
- 3. ID TAG

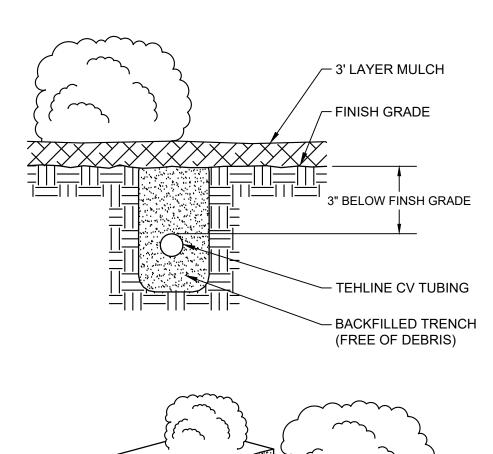
<u>LEGEND</u>

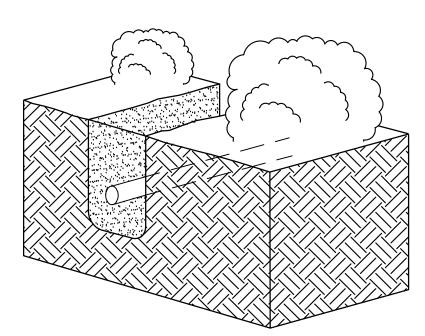
- 4. REMOTE CONTROL VALVE
- POLYPROPYLENE VALVE BOX AND LOCKABLE LID WITH ENGRAVED 'RCV' ON LID
- 6. FINISH GRADE 7. PVC SCH 80 NIPPLE (CLOSE)
- 8. PVC SCH 40 ELL
- 9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 10. BRICK (1 OF 4)
- 11. PVC MAINLINE PIPE
- 12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- 13. PVC SCH 40 TEE OR ELL
- 14. PVC SCH 40 MALE ADAPTER
- 15. PVC LATERAL PIPE
- 16. 3/4" CRUSHED GRAVEL, MIN. 5"-6" DEPTH

REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D1" SCALE: NTS

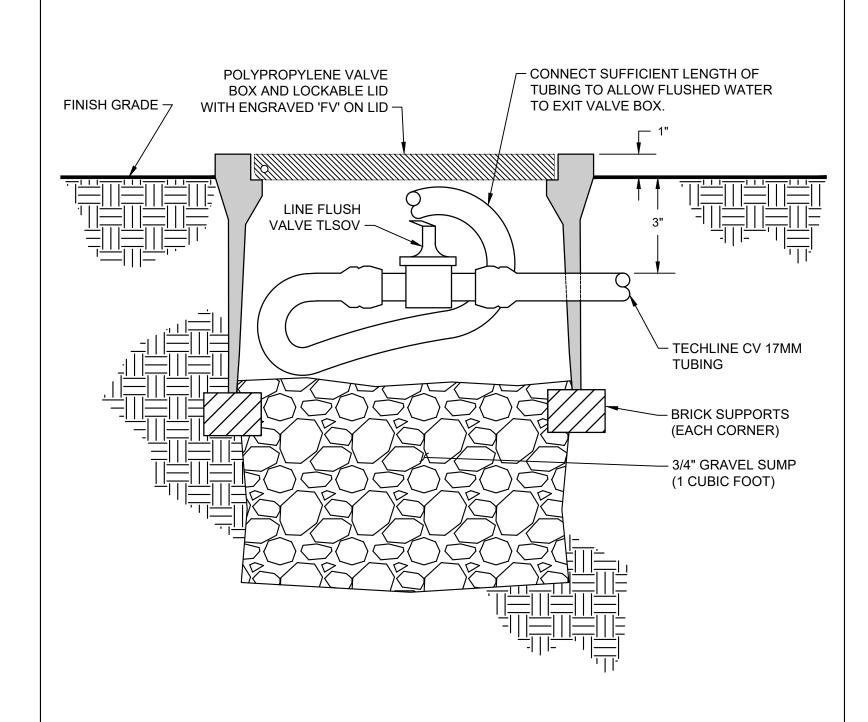


TECHLINE MULTIPLE PLANTER LAYOUT SCALE: NTS

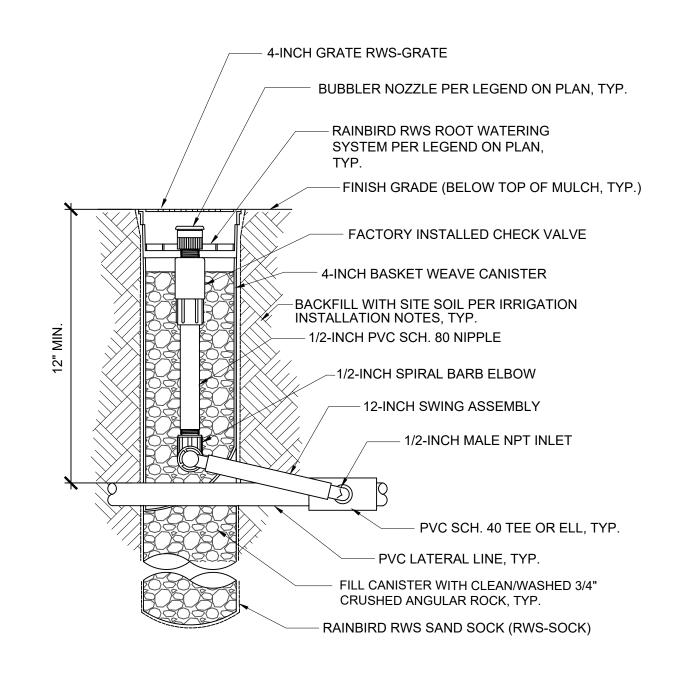




NETAFIM TECHLINE CV TRENCHING SIDEVIEW SCALE: NTS



NETAFIM MANUAL LINE FLUSHING **TSOV PLUMBED TO TUBING** SCALE: NTS



NOTE:

1. INSTALL RWS ADJACENT TO TREE ROOT BALL

ROOT WATERING SYSTEM BUBBLER ASSEMBLY SCALE: NTS

Know what's below. Call before you dig.

REVISIONS NUMBER DATE INITIALS SUBMITTED BY: FERNANDO

PUBLIC WORKS DEPARTMENT

CITY ENGINEER, RCE XXXXX DATE



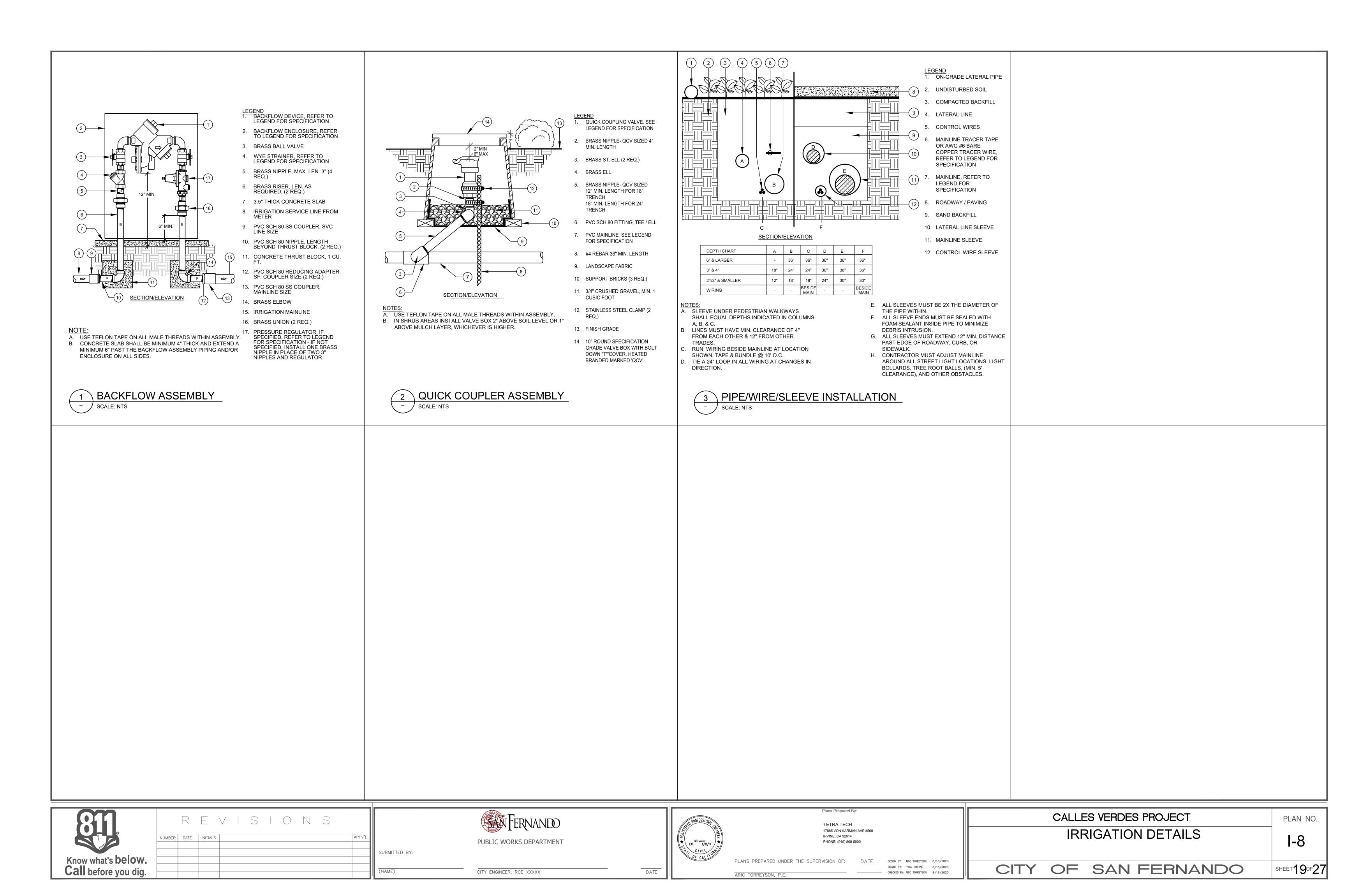
TETRA TECH 17885 VON KARMAN AVE #500 IRVINE, CA 92614 PHONE: (949) 809-5000 PLANS PREPARED UNDER THE SUPERVISION OF: DRAWN BY: RYAN CHEYNE 8/18/2023 ARIC TORREYSON, P.E.

CALLES VERDES PROJECT IRRIGATION DETAILS

PLAN NO.

CITY OF SAN FERNANDO

SHEET 180F27



#### PLANTING NOTES

- 1. ALL TREES SHOULD BE SINGLE TRUNK FORM UNLESS OTHERWISE 15. PROVIDE MATERIAL AND QUALITY REQUIREMENTS NECESSARY SPECIFIED.
- PLANTING PLANS ARE DIAGRAMMATIC. CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS, PLANT TYPES, SIZES, AND PLANT LOCATIONS AS SHOWN PRIOR TO INSTALLATION. ADVISE LANDSCAPE ARCHITECT WHERE CONFLICTS MAY BE PRESENT FOR RESOLUTION SO THE DESIGN'S INTENT IS NOT COMPROMISED
- 3. PROTECTION OF EXISTING PLANTS, WHERE APPLICABLE, SHALL COMPLY WITH REQUIREMENTS UNDER SPECIFICATION SECTION 025639 - TEMPORARY TREE AND PLANT PROTECTION.
- 4. VERIFY AND STAKE LOCATIONS OF EXISTING UTILITIES PRIOR TO EXCAVATION. CONTACT UNDERGROUND SERVICE ALERT (800.642.2444). PROTECT UTILITIES IN PLACE DURING CONTRACT DURATION. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED BY CONTRACTOR AT THEIR OWN EXPENSE.
- 5. DO NOT PRUNE OR TOP TREES PRIOR TO DELIVERY UNLESS DIRECTED, IN WRITING, BY THE LANDSCAPE ARCHITECT. DO NOT PRUNE THE CENTRAL LEADER OF ANY TREE. TREES THAT SHOW EVIDENCE OF HAVING BEEN RECENTLY PRUNED PRIOR TO DELIVERY SHALL BE SUBJECT TO REJECTION.
- 6. THE APPLICATION OF SOIL AMENDMENTS AND/OR FERTILIZERS SHALL BE DETERMINED BY THE RESULTS OF AN AGRICULTURAL SUITABILITY ANALYSIS PREPARED BY A LICENSED SOILS LABORATORY FOR ON-SITE ROUGH-GRADED SOILS, AND (IF REQUIRED) ANY IMPORTED TOPSOIL. REFER TO THE SPECIFICATIONS FOR THE NUMBER OF REPRESENTATIVE SAMPLES REQUIRED TO BE ANALYZED, AND THE NECESSARY ASSOCIATED TESTING METHODS/RESULTS THAT ARE REQUIRED TO BE FULFILLED. IF SIGNIFICANTLY DIFFERENT SOILS ARE ENCOUNTERED BY THE SUITABILITY ANALYSIS RESULTS, FURTHER SAMPLING MAY BE REQUIRED. A COPY OF THE SUITABILITY ANALYSES, ACCOMPANIED WITH RECOMMENDATIONS AUTHORED BY THE LABORATORY TO BRING THE SUBJECT SOILS INTO OPTIMUM HORTICULTURAL SUITABILITY 19. PLANTS SHALL BE DELIVERED TO SITE UNDER PROTECTIVE (USING PRODUCTS/MATERIALS IDENTIFIED IN THE PROJECT SPECIFICATIONS), SHALL BE SUBMITTED TO THE OWNER'S AUTHORIZED REPRESENTATIVE AND LANDSCAPE ARCHITECT AS SOON AS AVAILABLE. CONTRACTOR SHALL SUBMIT WRITTEN CERTIFICATION, ACCOMPANIED WITH COPIES OF THE DELIVERY TICKETS, THAT ALL REQUIRED SOIL AMENDMENT AND FERTILIZER 20. PLANTS DELIVERED TO THE SITE SHALL HAVE DURABLE LEGIBLE TYPE(S) HAVE BEEN INCORPORATED AT THE NECESSARY APPLICATION RATES AS RECOMMENDED AND REVIEWED THROUGH THE AGRICULTURAL SUITABILITY ANALYSIS.
- BASED ON THE RESULTS AND/OR MODIFICATIONS REQUIRED FROM AGRICULTURAL SUITABILITY ANALYSIS, THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE RECOMMENDATIONS FOR REVISIONS TO THE PLANTING SPECIES REQUIRED TO BETTER ACCOMMODATE THE AMENDED SOILS.
- 8. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY EROSION CONTROL AT ALL TIMES. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT LIMITED TO, CONSTRUCTING SUCH FACILITIES AND TAKING SUCH MEASURES AS ARE NECESSARY TO PREVENT, CONTROL, AND ABATE WATER, MUD AND EROSION DAMAGE TO THE SITE AND ADJOINING PROPERTY (PRIVATE AND PUBLIC) AS A RESULT OF CONSTRUCTING THE PROJECT. BY OCTOBER 15TH OF EACH YEAR, OR EARLIER IF CONDITIONS WARRANT, SUCH TEMPORARY EROSION CONTROL FEATURES AS ARE NECESSARY TO PREVENT DAMAGE DURING THE FORTHCOMING WINTER SEASON SHALL BE CONSTRUCTED AND FUNCTIONING, MEETING REQUIREMENTS OF THE REGIONAL WATER QUALITY CONTROL BOARD.
- 9. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING A MINIMUM TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF ANY LANDSCAPE IMPROVEMENT WORK AT THE SITE.
- 10. LOCATION OF PLANT MATERIAL TAKES PRECEDENCE OVER LOCATION OF IRRIGATION SYSTEM COMPONENTS. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS IN FIELD WHERE IRRIGATION SYSTEM COMPONENTS (SUBSURFACE MAINLINES, LOCATION OF VALVE BOXES, ETC.) DO NOT CONFLICT WITH THE LOCATION OR DESIGN INTENT LAYOUT OF THE PLANT MATERIAL COORDINATION IS ESSENTIAL TO MAKE SURE THE DESIGN INTENT OF THE PLANTING IS NOT COMPROMISED. (EXAMPLES: A CONTINUOUS HEDGE REQUIRES DIVISION INTO PARTIAL SEGMENTS DUE TO ERRANT SETTING OF VALVE BOXES, OR A TREE NEEDS TO BE RELOCATED DUE TO ERRANT LOCATION OF INSTALLED IRRIGATION MAINLINE. THE DESIGN INTENT FOR A CONTINUOUS HEDGE TAKES PRECEDENCE (THE VALVE BOXES SHALL BE LOCATED IN ANOTHER NON-CONFLICTING LOCATION): THE IRRIGATION MAINLINE SHALL BE REROUTED ACCORDINGLY (TO AVOID THE NEED TO RELOCATE THE CONFLICTING TREE).
- 11. CHECK DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. DISCREPANCIES OR POSSIBLE DEFICIENCIES BETWEEN THE CONTRACT DRAWINGS AND SPECIFICATIONS WITH FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- 12. PROVIDE FOR POSITIVE DRAINAGE AT ALL TIMES. NOTIFY LANDSCAPE ARCHITECT IF SITE CONDITIONS ARE OTHERWISE. MAINTAIN FLOWLINES AND DRAINAGE PATTERNS AS INDICATED ON THE ENGINEER'S DRAWINGS. REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO GROWTH OF PLANT MATERIAL.
- 13. CONTRACT DRAWINGS AND SPECIFICATIONS INDICATE THE FINISH STRUCTURE. CONSTRUCTION MEANS AND METHODS, SAFETY PROCEDURES, BRACING, SHORING, AND TEMPORARY SUPPORT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OBSERVATION VISITS TO THE JOB SITE MADE BY THE LANDSCAPE 27. FOR BOXED OR BALLED AND BURLAPPED TREES, SET TREES IN ARCHITECT DO NOT INCLUDE INSPECTION OF CONSTRUCTION METHODS AND SAFETY CONDITIONS AT THE WORK SITE. GIVE THE LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS NOTICE FOR REQUIRED OR REQUESTED JOB SITE VISITS.
- 14. PLANT QUANTITIES, IF INDICATED, ARE FOR THE OWNER'S CONVENIENCE ONLY. CONTRACTOR TO VERIFY ALL PLANT QUANTITIES AS INDICATED IN THE PLAN DOCUMENTS.

- FOR CONTINUOUS CONTROL, ABATEMENT, AND REMOVAL OF NOXIOUS VEGETATION. ESTABLISH, THROUGH THE COLLECTIVE USE OF SYSTEMIC, PRE- AND POST-EMERGENT HERBICIDES, A WEED-FREE CONDITION THROUGHOUT THE PROJECT AREA. FURNISH ALL NECESSARY MATERIALS, LABOR, SUPERVISION, EQUIPMENT, SIGNAGE, AND CHEMICAL SOLUTIONS FOR CONTROLLING OR ELIMINATING UNDESIRABLE VEGETATION. ALL PRODUCTS AND MATERIALS USED FOR WEED CONTROL SHALL BE EPA REGISTERED AND APPROVED FOR USE BY THE LOCAL JURISDICTION.
- 16. QUALITY AND SIZE OF PLANTS SHALL BE IN ACCORDANCE WITH RULES AND GRADING ADOPTED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. AND INCLUDED IN THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60). PLANTS SHALL EXHIBIT A NORMAL TO PREMIUM HABIT OF GROWTH FOR THE SPECIFIED SPECIES, AND SHALL BE SOUND, HEALTHY, FULL IN CONTAINER, VIGOROUS IN GROWTH WITH DENSELY FOLIATED BRANCHES, EXCEPTIONAL IN APPEARANCE, FORM, AND STRUCTURE, WITH ROBUST ROOT SYSTEMS, AND FREE FROM INSECTS, PESTS, AND DISEASE. TREE TRUNKS SHALL BE FREE OF SCARS, BLEMISHES, DEFECTS, AND INJURIES.
- 17. CONTAINER-GROWN PLANTS SHALL HAVE BEEN CULTIVATED IN NURSERY CONTAINERS FOR A MINIMUM OF SIX (6) MONTHS, AND A MAXIMUM OF TWO (2) YEARS. PLANTS SHALL HAVE SUFFICIENTLY- DEVELOPED ROOT SYSTEMS TO HOLD PLANTING SOIL TOGETHER INTACT UPON REMOVAL FROM THEIR CONTAINERS; THEY SHALL NOT EXHIBIT A ROOT-BOUND CONDITION.
- 18. PLANTS SHALL BE HANDLED BY THEIR CONTAINERS AT ALL TIMES. DO NOT LIFT, SET, OR HANDLE PLANTS BY THEIR TRUNKS, STEMS, OR FOLIAGE MASS. DO NOT USE PLANTS AS A LEVER FOR INSTALLATION. DO NOT DROP CONTAINERS TO DISRUPT ROOT SYSTEMS. ROOTBALLS THAT ARE CRACKED OR DAMAGED SHALL BE REJECTED AND REPLACED.
- COVER. PLANTS SHALL ARRIVE UNBLEMISHED, WITH SUFFICIENTLY MOISTENED ROOTBALLS. STORE AND PROTECT FROM DAMAGE THROUGHOUT INSTALLATION PERIOD. MAINTAIN PLANTS IN A FULLY- IRRIGATED CONDITION UNTIL INSTALLATION.
- LABELS, PRINTED OR STATED IN WEATHER-RESISTANT INK, WITH 32. LANDSCAPE INSTALLATION PERIOD: CONTRACTOR IS THE CORRECT BOTANICAL NAME OF THE PLANT(S) BEING DELIVERED. LABELS SHALL BE SECURELY ATTACHED TO PLANT FOLIAGE OR CONTAINER. PLANTS THAT HAVE BEEN REVIEWED AND SELECTED IN ADVANCE AT THE NURSERY BY THE LANDSCAPE ARCHITECT SHALL BE DELIVERED TO THE SITE WITH THE ORIGINAL NURSERY TAGGING MATERIALS (HELD SECURELY INTACT AND UNTAINTED) AS USED BY THE LANDSCAPE ARCHITECT
- 21. PRIOR TO PLANTING OPERATIONS, CONTRACTOR SHALL RECEIVE APPROVAL OF REQUIRED SUBMITTALS AS INDICATED IN CONTRACT SPECIFICATIONS. SUBMITTALS INCLUDE THE FOLLOWING:  $\cdot$  AGRONOMIC SOIL FERTILITY ANALYSIS AND RECOMMENDATIONS  $\,$  33.  $\,$  LANDSCAPE ESTABLISHMENT PERIOD: CONTRACTOR IS  $\,$ PER SPECIFICATION SECTION 329113.
- SOIL PERCOLATION TESTING PER SPECIFICATION SECTION APPLICABLE SOIL PREPARATION ARTICLES BEING FURNISHED AND INSTALLED FOR AMENDMENTS, FERTILIZERS, AND SOIL MIXTURES UNDER SPECIFICATION SECTION 329113. PLANT MATERIALS BEING FURNISHED AND INSTALLED UNDER APPLICABLE SPECIFICATION SECTIONS 329200, 329300, AND/OR · LANDSCAPE PLANTING ACCESSORIES BEING FURNISHED AND INSTALLED UNDER SPECIFICATION SECTION 329400.

· APPLICABLE PLANT ESTABLISHMENT PERIOD ARTICLES BEING

FURNISHED AND INSTALLED UNDER SPECIFICATION SECTION

- 22. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED WHEN SOIL ARE IN A SATURATED, MUDDY, OR FROZEN
- 23. PLANTING HOLE/PIT SHALL BE EXCAVATED TO A MINIMUM OF 2X THE WIDTH OF THE PLANT ROOTBALL BEING INSTALLED. DO NOT EXCAVATE HOLES/PITS DEEPER THAN THE DEPTH OF THE ROOTBALL BEING INSTALLED. SCARIFY THE SIDES OF THE PLANTING HOLE/PIT TO ENCOURAGE OPTIMUM GROWTH INTO THE SUBGRADE.

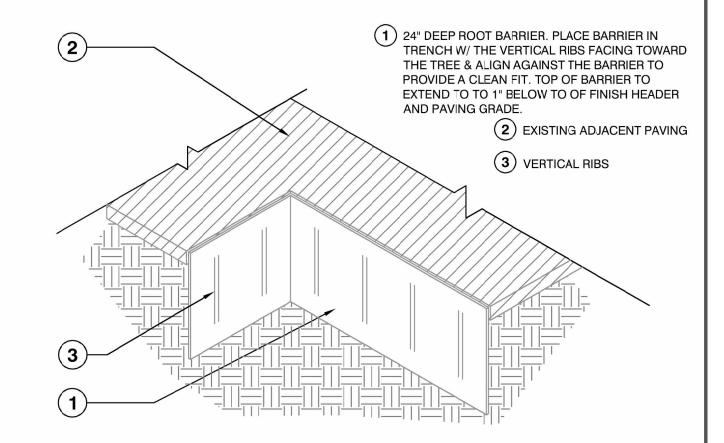
CONDITION.

- 24. UPON REMOVAL OF THE PLANT'S NURSERY CONTAINER OR ROOT BALL WRAPPINGS, PRUNE OR REMOVE ANY WINDING OR GIRDLING ROOTS. PRUNE/CUT UTILIZING CLEAN, SHARP, AND STERILIZED TOOLS. LIGHTLY SCARIFY ROOT BALL TO ENCOURAGE OUTWARD GROWTH OF ROOT MASS.
- 25. SET THE TOP (CROWN) OF THE PLANT ROOT BALL SLIGHTLY ABOVE THE LEVEL OF THE SURROUNDING FINISHED GRADIENT, ALLOWING FOR ANY DIFFERENTIAL SETTLEMENT OF THE BACKFILL.
- 26. FULLY IRRIGATE PLANT MATERIALS IMMEDIATELY UPON INSTALLATION SO THAT ROOT MASS AND BACKFILL ARE SATURATED AND SETTLED. MONITOR PLANTS AND APPLY SUPPLEMENTAL WATER, IN QUANTITY AS REQUIRED, TO PROMOTE HEALTHY ESTABLISHMENT, AND UNTIL IRRIGATION SYSTEM IS FULLY OPERATIONAL AND FUNCTIONAL. HAND WATERING OF PLANTS MAY BE REQUIRED TO ENSURE SURVIVAL.
- THE EXCAVATED PLANTING HOLE/PIT AND ORIENT/SET PLUMB, ACCORDING TO THE DIRECTION OF THE LANDSCAPE ARCHITECT. ONCE TREE IS ACCEPTED IN PLACE, REMOVE NURSERY CONTAINER STRAPS AND SIDES, OR BURLAP AND WIRE NETTING. WHERE TREE ROOTBALLS ARE STABILIZED VIA TETHERED SUBSURFACE ROOT BALL ANCHORING SYSTEMS, INSTALL COMPONENTS OF THIS SYSTEM PER MANUFACTURER'S DIRECTIONS. INSTALL SUPPLEMENTAL DRAINAGE ASSEMBLIES AND TREE ROOT AERATION UNITS AS SPECIFIED. INSTALL ROOT

EMILIY TYRER, RLA.

CONTROL BARRIERS AS SPECIFIED. BACKFILL AND LIGHTLY COMPACT ACCORDINGLY IN LIFTS WITH AMENDED PLANTING BACKFILL MIXTURE (REFER TO SPECIFICATIONS). APPLY WATER AND TAMP TO REMOVE AIR POCKETS AND SETTLE BACKFILL BEING CAREFUL TO AVOID EXCESSIVE COMPACTION WHICH WILL AFFECT SOIL POROSITY ESSENTIAL FOR HEALTHY ROOT GROWTH. ADD SLOW-RELEASE FERTILIZER TABLETS AND SUPPLEMENTAL AMENDMENTS IN QUANTITY AS SPECIFIED PRIOR TO FINAL LIFT OF BACKFILL.

- 28. STAKE TREES, AS NECESSARY, IMMEDIATELY AFTER PLANTING, TO ENSURE CONTINUOUS PLUMB GROWTH THROUGH THE SPECIFIED PLANT ESTABLISHMENT PERIOD AND UNTIL FINAL ACCEPTANCE IS GRANTED. FOR TREE STAKING, SECURELY ANCHOR TREE STAKES INTO UNDISTURBED SUBGRADE. REFER TO SPECIFICATIONS FOR TYPE, QUANTITY, AND SIZE OF STAKES AND SUPPLEMENTAL STAKING MATERIALS. FOR TYPE AND INSTALLATION OF TREE GUYING ASSEMBLIES, REFER TO MANUFACTURER'S PRINTED INSTRUCTIONS AS SPECIFIED. REMOVE AND DISCARD ALL NURSERY-FURNISHED STAKING MATERIALS.
- 29. FOR APPLICABLE VINE AND/OR ESPALIER PLANTING, REMOVE NURSERY-FURNISHED STAKING OR TRELLIS SUPPORT MATERIALS. CAREFULLY TRAIN AND ANCHOR VINES/ESPALIERS TO SPECIFIED SUPPORTING STRUCTURES (FENCE, WALL, ETC.) BY WEAVING STEMS/BRANCHES THROUGH STRUCTURE, AND/OR ANCHOR WITH SPECIFIED WRAPPING MATERIALS IN QUANTITY NECESSARY TO SUFFICIENTLY SUPPORT PLANT IN AN UPRIGHT SPLAYED CONDITION. AVOID DAMAGE TO PLANT.
- 30. FOLLOWING PLANTING INSTALLATION AND REMEDIAL FINE GRADING, PLANTING AREAS SHALL RECEIVE A LAYER OF MULCH, 3" MIN DEPTH, TO HOLD IN SOIL MOISTURE AND DETER WEED GROWTH AND SOIL EROSION. TYPE AND SETTLED DEPTH OF MULCH LAYER (SHREDDED WOOD MULCH, AGGREGATE SURFACING, ETC.) SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS. MULCH SHALL BE APPLIED BEING CAREFUL NOT TO SET WITHIN AND PROTECT GROWING NODES OF INSTALLED PLANTS.
- . REMEDIAL PRUNING OF PLANTS SHALL BE RESERVED AND LIMITED TO DEAD, DISEASED OR BROKEN LIMBS ONLY, AND SHALL BE IN STRICT ACCORDANCE WITH ANSI A300 SPECIFICATIONS. PRUNE/CUT UTILIZING CLEAN, SHARP, AND STERILIZED TOOLS.
- RESPONSIBLE FOR MAINTAINING IN FULL, ALL PLANTING AREAS (INCLUDING WATERING, SPRAYING, MULCHING, MOWING, FERTILIZING, WEEDING, STAKING, ETC.) UNTIL THE PROJECT IS REVIEWED AT THE END OF THE INSTALLATION PHASE BY THE OWNER'S AUTHORIZED REPRESENTATIVE AND LANDSCAPE ARCHITECT. CONTRACTOR SHALL REQUEST REVIEW OF PROJECT IN WRITING AT THE END OF THIS INSTALLATION PERIOD. COMPLETION OF THE LANDSCAPE ARCHITECT AND OWNER'S AUTHORIZED REPRESENTATIVE'S REVIEW IN FIELD SHALL COMMENCE THE LANDSCAPE ESTABLISHMENT PERIOD. THE ENTIRE PROJECT WILL BE ACCEPTED AT ONE TIME AND WILL NOT BE ACCEPTED BY AREAS OR PHASED PARTS.
- RESPONSIBLE TO GUARANTEE AND CONTINUOUSLY MAINTAIN IN FULL ALL PLANTING AREAS (INCLUDING WATERING, SPRAYING, MULCHING, MOWING, FERTILIZING, WEEDING, STAKING, ETC.) FOR AN ESTABLISHMENT PERIOD FOLLOWING THE REVIEW DATE OF INSTALLATION COMPLETION. DURATION OF THIS LANDSCAPE ESTABLISHMENT PERIOD SHALL BE AS SPECIFIED. CONTRACTOR SHALL REQUEST REVIEW OF PROJECT IN WRITING FOLLOWING COMPLETION OF THE LANDSCAPE ESTABLISHMENT PERIOD. LANDSCAPE ARCHITECT AND OWNER'S AUTHORIZED REPRESENTATIVE'S SUCCESSFUL REVIEW SHALL ACKNOWLEDGE SUBSTANTIAL COMPLETION AND BEGIN THE LANDSCAPE GUARANTEE PERIOD.
- 34. GUARANTEE PERIOD: FOLLOWING SUBSTANTIAL COMPLETION, IF ALL WORK IS SATISFACTORY, COMPLETE, AND IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT, THEN THE OWNER'S AUTHORIZED REPRESENTATIVE AND LANDSCAPE ARCHITECT SHALL DECLARE FINAL ACCEPTANCE OF THE PROJECT IN WRITING AND THE BEGINNING OF THE LANDSCAPE GUARANTEE PERIOD.
- 35. ALL PLANT MATERIAL INSTALLED SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN A VIGOROUS GROWING CONDITION. PROVISIONS SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE (1) YEAR FOLLOWING FINAL ACCEPTANCE FOR TREE AND SHRUBS/GROUND COVERS/VINES. SPECIMEN-SIZE TREES AND PALM TREES SHALL BE GUARANTEED FOR TWO (2) YEARS FOLLOWING FINAL ACCEPTANCE. CONTRACTOR SHALL REMOVE AND REPLACE ANY PLANT MATERIAL WHICH ARE DEAD OR DYING (PER THE SOLE OPINION OF THE LANDSCAPE ARCHITECT), EXCEPT THOSE DUE TO VANDALISM OR NEGLECT, WITH PLANT MATERIAL EQUAL TO ORIGINAL. REPLACEMENT PLANT MATERIALS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUBSEQUENT PLANTING SEASON. ALL REPLACEMENT PLANT MATERIALS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED
- 36. CONTINUOUSLY MAINTAIN INSTALLED PLANTING AREAS IN A DUST, PEST, TRASH, DEBRIS, AND WEED-FREE CONDITION THROUGHOUT THE CONTRACTED PLANT ESTABLISHMENT PERIOD UNTIL FINAL ACCEPTANCE. MAINTAIN IN ACCORDANCE WITH APPLICABLE GOVERNING AGENCY GUIDELINES AND SPECIFICATIONS UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENT



ROOT BARRIER

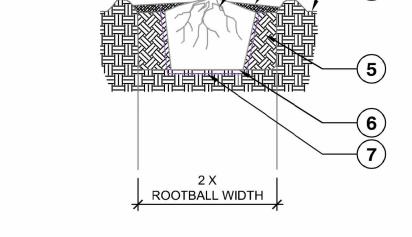
(1) 3" DEEP MULCH **KEEP 4" CLEAR FROM TRUNK** (2) 3" SOIL BERM (3) FINISH GRADE

P-LA-06-08

(4) ROOTBALL SET 2" ABOVE FINISH GRADE (5) AMENDED BACKFILL

(6) SET BALL ON UNDISTURBED

(7) GOPHER BASKET



SHRUB PLANTING

P-LA-PLA-01

- (1) 2 STAKES PER TREE 9' LONG FOR 15 GAL - 24" BOX PLACE 18-24" FROM TRUNK AND OUTSIDE OF ROOTBALL IN DIRECTION OF PREVAILING WIND
- (2) STRAP BAR WITH UV RESISTANT VINYL
- (3) TREE TRUNK PROTECTOR (4) INSTALL TOP OF ROOTBALL 1-1/2"
- ABOVE FINISH GRADE (**5**) 3" MULCH 4-6" CLEAR OF TRUNK
- (6) 4" HEIGHT TEMPORARY WATER BASIN REMOVE AT END OF MAINTENANCE
- (7) AMENDED BACKFILL
- (8) SET ROOTBALL ON UNDISTURBED SOIL



2 x WIDTH OF ROOTBALL

3

P-LA-PLA-02

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(NAME)

SUBMITTED BY:

CITY ENGINEER, RCE XXXXX

DATE

TREEPEOPLE 12601 MULLHOLLAND DR BEVERLY HILLS, CA 90210 PHONE: (818) 753-4600

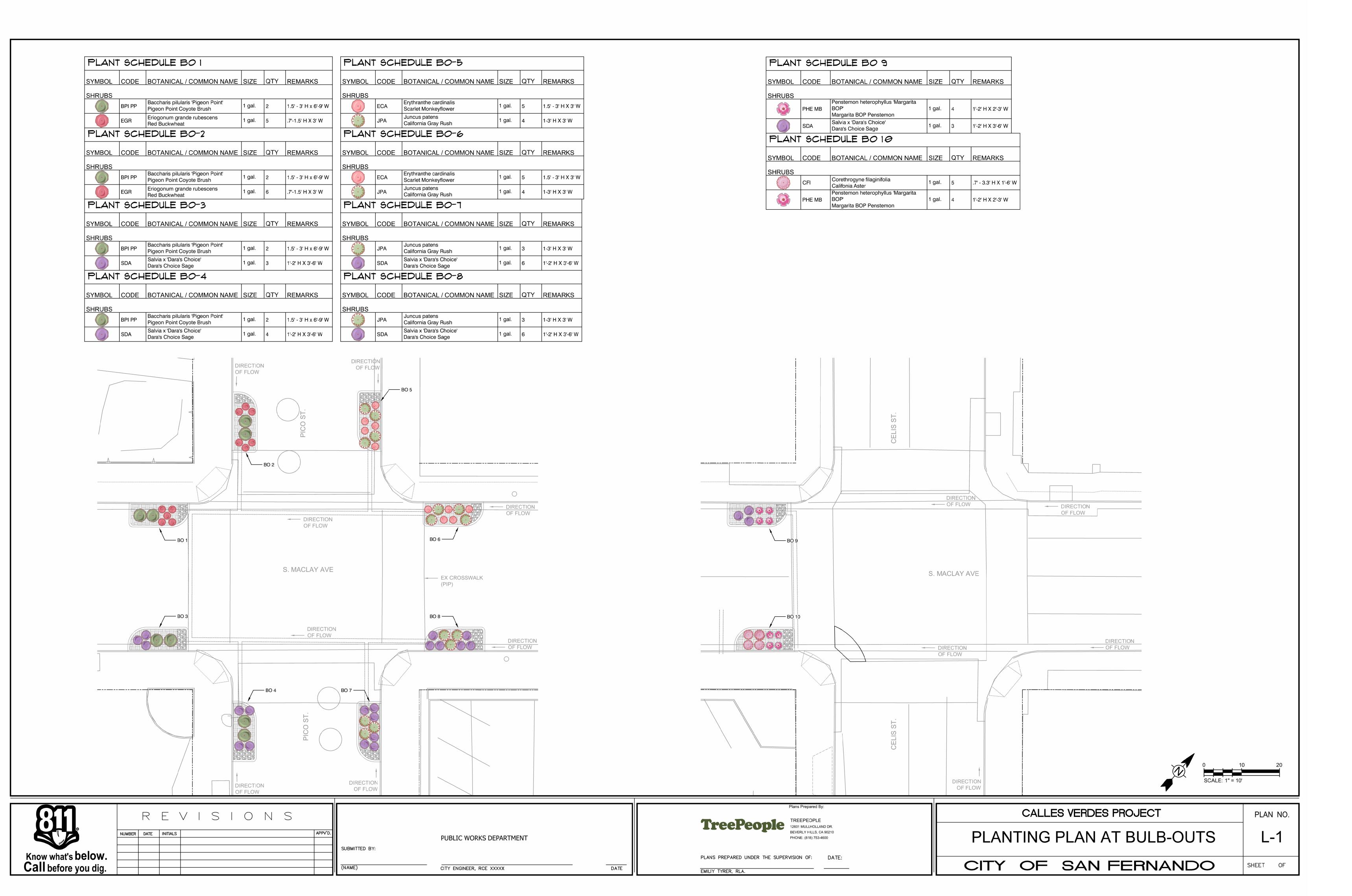
PLANS PREPARED UNDER THE SUPERVISION OF: DATE:

**CALLES VERDES PROJECT** PLANTING NOTES AND DETAILS

CITY OF SAN FERNANDO

SHEET OF

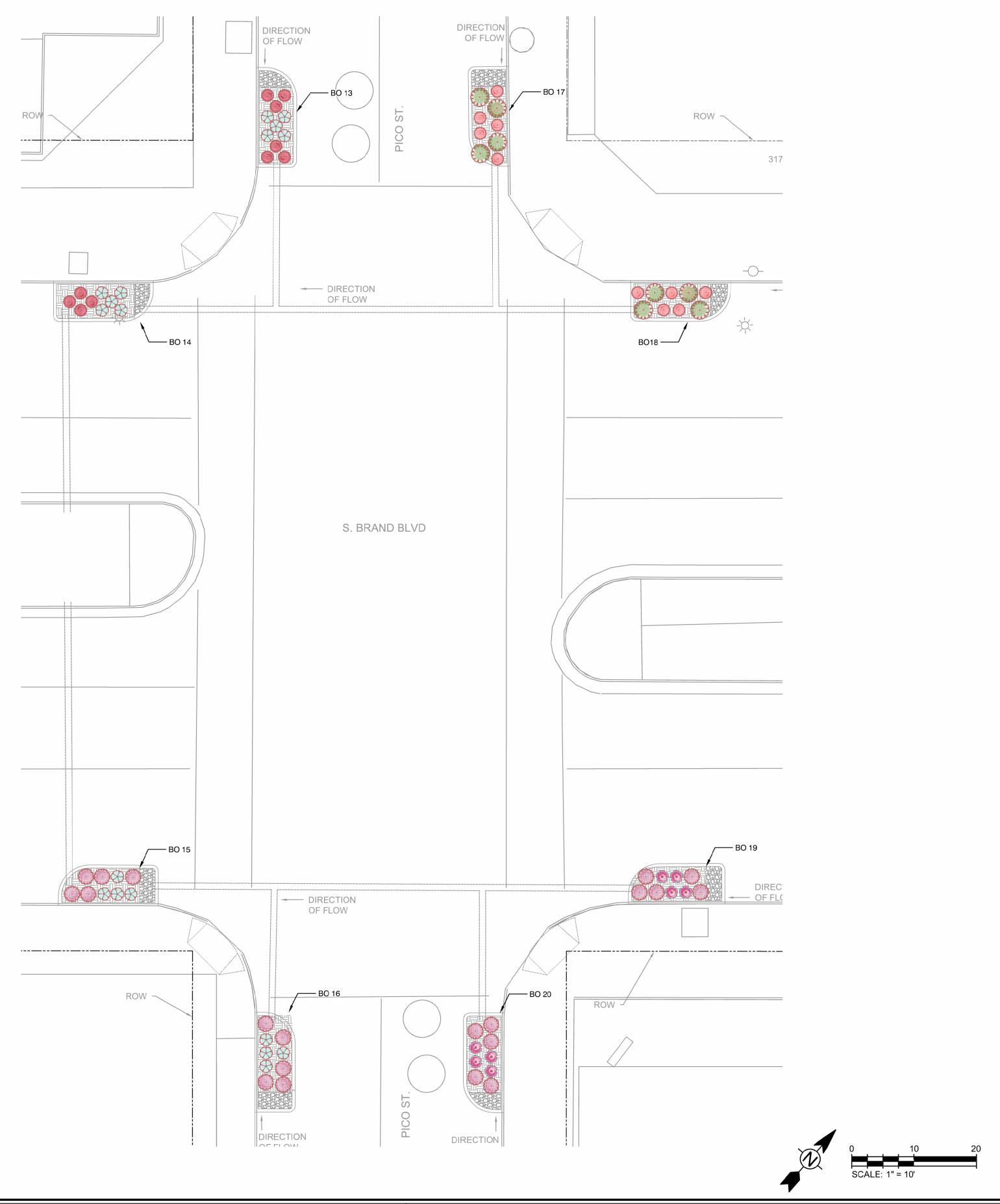
PLAN NO.



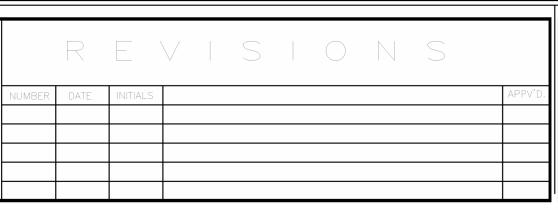


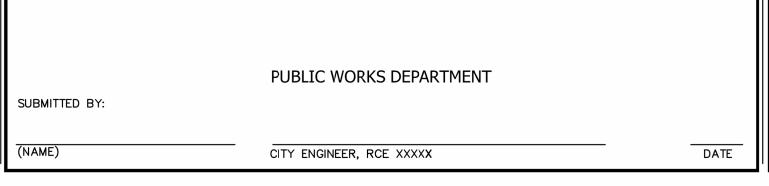
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	QTY	REMARKS
SHRUBS	10022		10		
	ECA	Erythranthe cardinalis Scarlet Monkeyflower	1 gal.	5	1.5' - 3' H X 3' W
E. Jan	JPA	Juncus patens California Gray Rush	1 gal.	4	1-3' H X 3' W
PLAN	T SCH	EDULE BO 12			
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	QTY	REMARKS
SHRUBS					
	ECA	Erythranthe cardinalis Scarlet Monkeyflower	1 gal.	5	1.5' - 3' H X 3' W
E	JPA	Juncus patens California Gray Rush	1 gal.	4	1-3' H X 3' W
PLAN	t sch	IEDULE BO 13			
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	QTY	REMARKS
01101100					
SHRUBS					
SHRUBS	EGR	Eriogonum grande rubescens Red Buckwheat	1 gal.	6	.7'-1.5' H X 3' W
SHRUBS	EGR FCA		1 gal.	6 5	.7'-1.5' H X 3' W
	FCA	Red Buckwheat Festuca californica			.7'-1.5' H X 3' W
	FCA	Red Buckwheat Festuca californica California Fescue	1 gal.		.7'-1.5' H X 3' W
PLAN SYMBOL	FCA	Red Buckwheat Festuca californica California Fescue FEDULE BO 14	1 gal.	5	
PLAN	FCA	Red Buckwheat Festuca californica California Fescue FEDULE BO 14	1 gal.	5	
PLAN SYMBOL	FCA T SCH	Red Buckwheat  Festuca californica California Fescue  FEDULE BO 14  BOTANICAL / COMMON NAME  Eriogonum grande rubescens	1 gal.	5 QTY	REMARKS
PLAN  SYMBOL  SHRUBS	FCA T SCH CODE EGR FCA	Red Buckwheat Festuca californica California Fescue FEDULE BO 14  BOTANICAL / COMMON NAME  Eriogonum grande rubescens Red Buckwheat Festuca californica	1 gal.	5 QTY	REMARKS
PLAN  SYMBOL  SHRUBS	FCA T SCH CODE EGR FCA	Red Buckwheat Festuca californica California Fescue FEDULE BO 14  BOTANICAL / COMMON NAME  Eriogonum grande rubescens Red Buckwheat Festuca californica California Fescue	1 gal.  SIZE  1 gal.  1 gal.	5 QTY	REMARKS
SYMBOL SHRUBS PLAN SYMBOL	FCA T SCH  EGR FCA T SCH	Red Buckwheat Festuca californica California Fescue FEDULE BO 14  BOTANICAL / COMMON NAME  Eriogonum grande rubescens Red Buckwheat Festuca californica California Fescue FEDULE BO 15	1 gal.  SIZE  1 gal.  1 gal.	5 QTY 4 5	REMARKS .7'-1.5' H X 3' W
PLAN SYMBOL SHRUBS PLAN	FCA T SCH  EGR FCA T SCH	Red Buckwheat Festuca californica California Fescue FEDULE BO 14  BOTANICAL / COMMON NAME  Eriogonum grande rubescens Red Buckwheat Festuca californica California Fescue FEDULE BO 15	1 gal.  SIZE  1 gal.  1 gal.	5 QTY 4 5	REMARKS .7'-1.5' H X 3' W

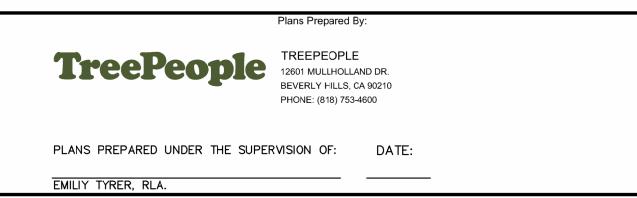
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	QTY	REMARKS		
SHRUBS		To " " " " "	1	1	1		
English States	CFI	Corethrogyne filaginifolia Califonia Aster	1 gal.	6	.7' - 3.3' H X 1'-6' W		
	FCA	Festuca californica California Fescue	1 gal.	4			
PLAN	TSCH	EDULE BO 17					
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	QTY	REMARKS		
SHRUBS							
	ECA	Erythranthe cardinalis Scarlet Monkeyflower	1 gal.	6	1.5' - 3' H X 3' W		
	JPA	Juncus patens California Gray Rush	1 gal.	4	1-3' H X 3' W		
PLAN	T SCH	EDULE BO 18					
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	QTY	REMARKS		
OTIVIDOL	TOODL	DOTANICAL / COMMON NAME	JOIZL	19(1)	INCINATIO		
SHRUBS	T	Erythranthe cardinalis	<u>.                                    </u>	T <sub>-</sub>	I		
SHRUBS	ECA	Erythranthe cardinalis Scarlet Monkeyflower	1 gal.	6	1.5' - 3' H X 3' W		
SHRUBS	ECA JPA		1 gal.	6 4	1.5' - 3' H X 3' W 1-3' H X 3' W		
SHRUBS  O  PLAN	JPA	Scarlet Monkeyflower Juncus patens	-				
PLAN	JPA	Scarlet Monkeyflower  Juncus patens California Gray Rush	1 gal.	4			
PLAN  SYMBOL	JPA T SCH	Scarlet Monkeyflower  Juncus patens California Gray Rush  EDULE BO 19	1 gal.	4	1-3' H X 3' W		
PLAN SYMBOL	JPA T SCH	Scarlet Monkeyflower  Juncus patens California Gray Rush  EDULE BO 19	1 gal.	4	1-3' H X 3' W		
PLAN SYMBOL	JPA T SCH CODE	Scarlet Monkeyflower  Juncus patens California Gray Rush  EDULE BO 19  BOTANICAL / COMMON NAME  Corethrogyne filaginifolia	1 gal.	4 QTY	1-3' H X 3' W  REMARKS		
SYMBOL  SHRUBS	JPA T SCH CODE  CFI PHE MB	Scarlet Monkeyflower  Juncus patens California Gray Rush  EDULE BO 19  BOTANICAL / COMMON NAME  Corethrogyne filaginifolia Califonia Aster  Penstemon heterophyllus 'Margarita BOP'	1 gal.	QTY 5	1-3' H X 3' W  REMARKS  .7' - 3.3' H X 1'-6' W		
PLAN SYMBOL SHRUBS	JPA T SCH CODE  CFI PHE MB	Scarlet Monkeyflower  Juncus patens California Gray Rush  EDULE BO 19  BOTANICAL / COMMON NAME  Corethrogyne filaginifolia Califonia Aster  Penstemon heterophyllus 'Margarita BOP' Margarita BOP Penstemon	1 gal.  1 gal.  1 gal.	QTY 5	1-3' H X 3' W  REMARKS  .7' - 3.3' H X 1'-6' W		
PLAN SYMBOL SHRUBS PLAN SYMBOL	JPA T SCH CODE  CFI PHE MB T SCH	Scarlet Monkeyflower  Juncus patens California Gray Rush  EDULE BO 19  BOTANICAL / COMMON NAME  Corethrogyne filaginifolia Califonia Aster  Penstemon heterophyllus 'Margarita BOP' Margarita BOP Penstemon  EDULE BO 20	1 gal.  1 gal.  1 gal.	4 QTY 5 4	1-3' H X 3' W  REMARKS  .7' - 3.3' H X 1'-6' W  1'-2' H X 2'-3' W		
PLAN  SYMBOL  SHRUBS  PLAN	JPA T SCH CODE  CFI PHE MB T SCH	Scarlet Monkeyflower  Juncus patens California Gray Rush  EDULE BO 19  BOTANICAL / COMMON NAME  Corethrogyne filaginifolia Califonia Aster  Penstemon heterophyllus 'Margarita BOP' Margarita BOP Penstemon  EDULE BO 20	1 gal.  1 gal.  1 gal.	4 QTY 5 4	1-3' H X 3' W  REMARKS  .7' - 3.3' H X 1'-6' W  1'-2' H X 2'-3' W		







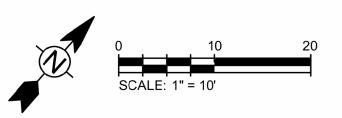




CALLES VERDES PROJECT	PLAN NO.
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CITY OF SAN FERNANDO	SHEET OF

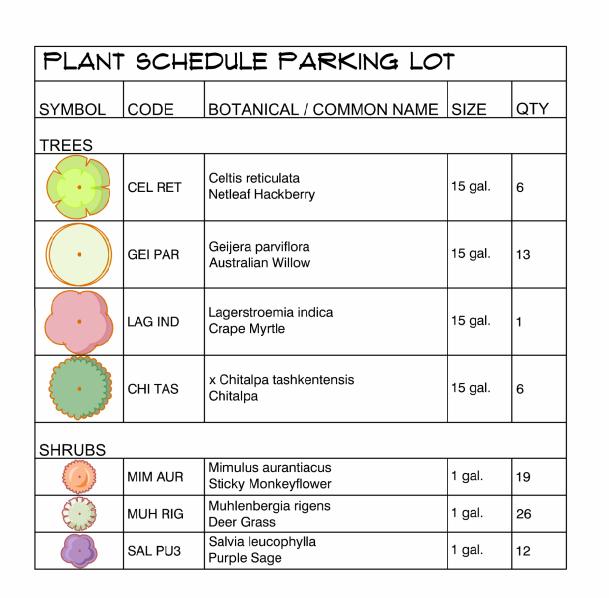


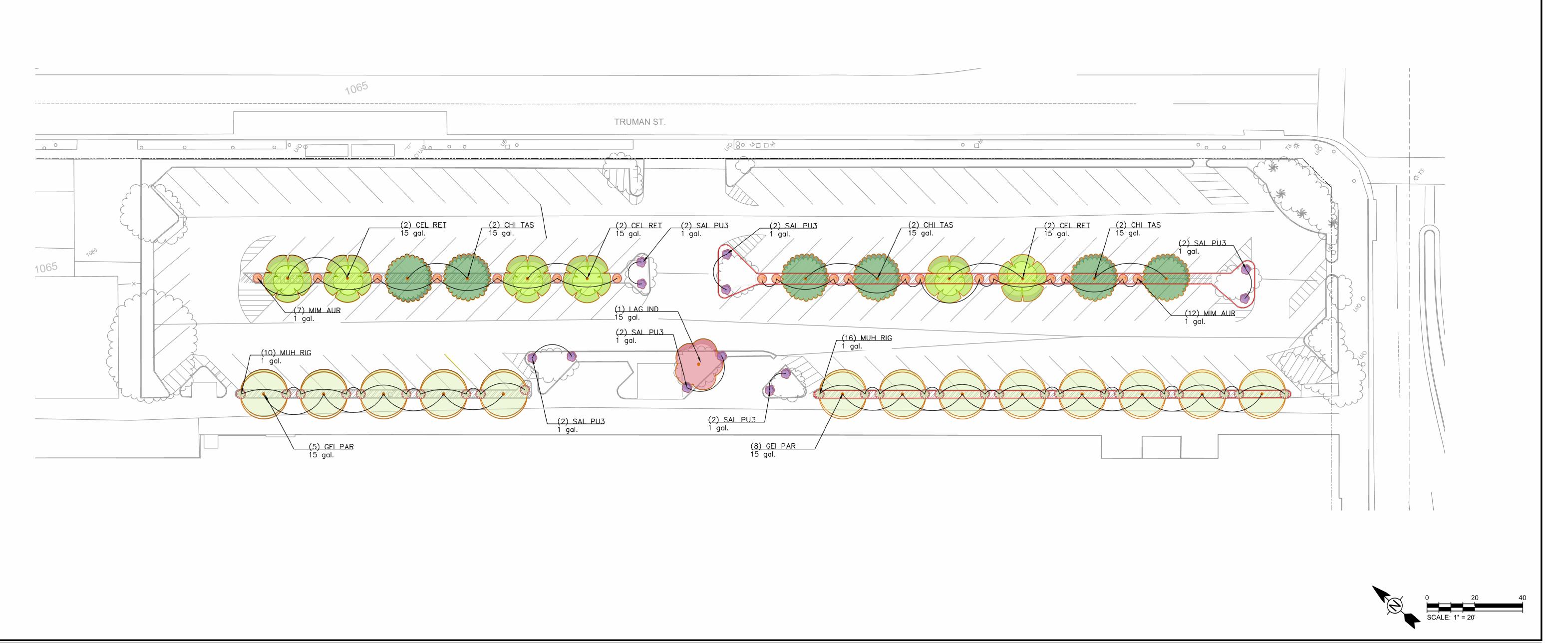
PLANT SCHEDULE BO 21								
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	QTY	REMARKS			
SHRUBS								
E	JPA	Juncus patens California Gray Rush	1 gal.	3	1-3' H X 3' W			
	SDA	Salvia x 'Dara's Choice' Dara's Choice Sage	1 gal.	6	1'-2' H X 3'-6' W			
PLANT	SCH	EDULE BO 22						
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	QTY	REMARKS			
SHRUBS								
E	JPA	Juncus patens California Gray Rush	1 gal.	3	1-3' H X 3' W			
	SDA	Salvia x 'Dara's Choice' Dara's Choice Sage	1 gal.	6	1'-2' H X 3'-6' W			



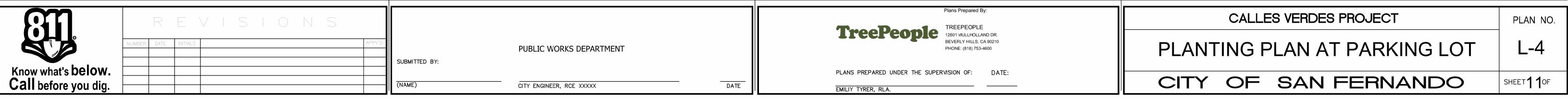
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	NUMBER D	ATE INITIAL	S				APPV'D.		PUBLIC WORKS DEPARTMENT	
Know what's <b>below</b> .  Call before you dig.								SUBMITTED BY:  (NAME)	CITY ENGINEER, RCE XXXXX	DATE

	Plans Prepared By:		
	TREEPEOPLE	CALLES VERDES PROJECT	PLAN NO.
reePeople	12601 MULLHOLLAND DR. BEVERLY HILLS, CA 90210 PHONE: (818) 753-4600		L-3
ANS PREPARED UNDER THE SUPER	VISION OF: DATE:		
IILIY TYRER, RLA.		CITY OF SAN FERNANDO	SHEET OF



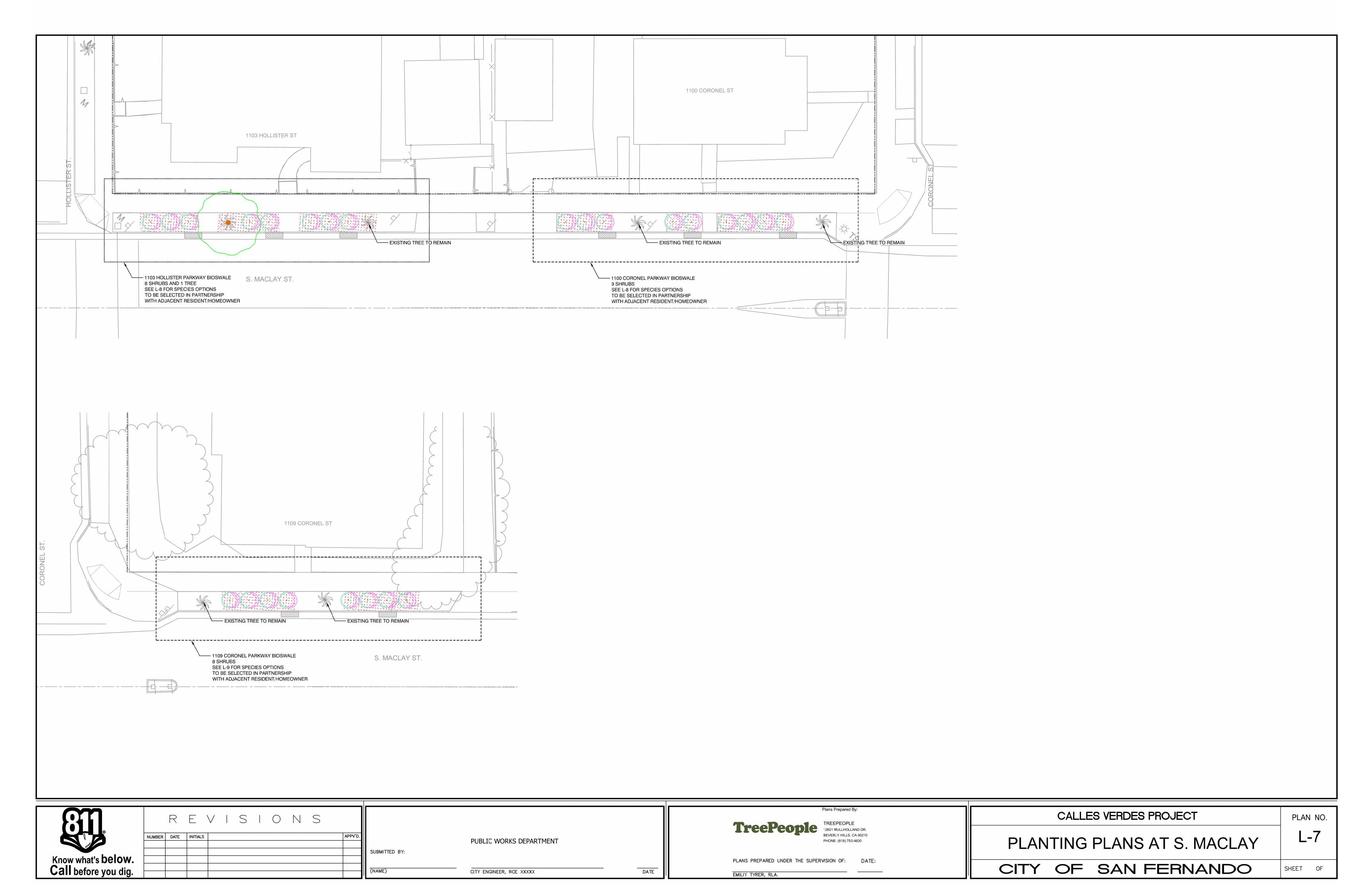


VICINITY MAP





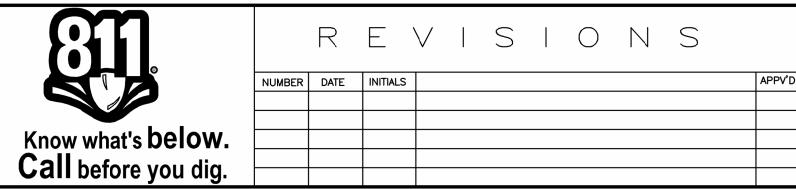






MACLAY PARKWAY TREE PLANTING OPTIONS								
Chitalpa tashkentensis	Plnk Dawn Chitalpa	15 gal	20'-30' H x 20'-30' W	Pink flowers in Summer and Spring, Winter Deciduous				
Callistemon viminalis	Weeping Bottlebrush	15 gal	20'-30' H x 20'-25 W	Weeping tree with red flowers in Spring. Evergreen.				
Cercis occidentalis	Western Redbud	15 gal	10-20' H X 10'-15'W	Plnk/red flowers in Spring and Winter, Winter Deciduous				
Chilopsis linearis	Desert Willow	15 gal	5-25' H X 10-20' W	Purple flowers in Spring, Summer, Fall. Winter Deciduous				
Geijera parvifolia	Australian Willow	15 gal	20'-30' H X 15'-20' W	Evergreen				

M	MACLAY BIOSWALE SHRUB PLANTING OPTIONS					
Achillea millefolium	Common Yarrow	1 gal	1'-3' H X .5'-1.5 W'	White flower, blooms in Spring and Summer, Evergreen		
Asclepias eriocarpa	Woolypod Milkweed	1 gal	1'-3' H X 1' W	Pink/white flower, blooms in Summer, Winter deciduous		
Asclepias fascicularis	Narrowleaf Milkweed	1 gal	1'-3' H X 1' W	Pink/white flower, blooms in Summer and Fall, Winter deciduous		
Baccharis piluaris 'Pigeon Point'	Pigeon Point Coyote Bush	1 gal	1.5'-3' H X 6'-9' W	Yellow/cream flowers that bloom year round. Evergreen		
Coreothrogyne filaginofilia'Silver Carpet'	Silver Carpet Aster	1 gal	6-12" H X 3-4' W, spreading	Lavendar/pink blooms in Summer, Fall, winter. Evergreen		
Juncus Patens	Common Rush	1 gal	1-3' H x 3' W	Grass, Evergreen.		
Lepechinia fragrans	Fragrant Pitcher Sage	1 gal	3'-5' H X '-5' W	Purple blooms in Spring, Summer and Fall. Evergreen		
Mimulus aurantiacus	Sticky Monkeyflower	1 gal	2'-3' H X 2'-3' W	Orange blooms in Winter, Spring and Summer. Evergreen.		
Muhlenbergia rigens	Deergrass	1 gal	4-5' H X 4' W	Grass, Evergreen.		
Penstemon heterophyllus 'Margarita BOP'	Margarita BOP Penstemon	1 gal	1'-2' H x 2'-3' W	Purple blooms in Spring and Summer. Evergreen		
Salvia 'Dara's Choice'	Creeping Sage 'Dara's Choice'	1 gal	1'-2' H X 3' -6' W, spreading	Purple blooms in Spring and Summer. Evergreen		
Salvia leucophylla	Purple Sage	1 gal	2'-5' H X 3'-10' W	Purple blooms in Spring and Summer. Evergreen		



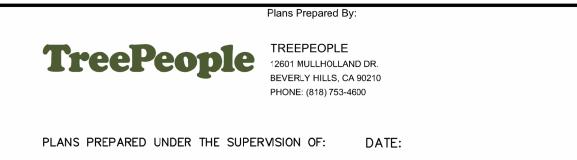
PUBLIC WORKS DEPARTMENT

SUBMITTED BY:

(NAME)

CITY ENGINEER, RCE XXXXX

DATE



EMILIY TYRER, RLA.

CALLES VERDES PROJECT	PLAN NO.
PLANTING PALETTE AT S. MACLAY	L-8
CITY OF SAN FERNANDO	SHEET OF