

FIRE DAMAGED ROADWAY LANDSCAPING

FEMA PUBLIC ASSISTANCE ID: 4344 DRCA-36380, 36360, 64204

FOUNTAINGROVE REVEGETATION AND SLOPE REPLANTING: HMGP 4344DRCA CAL OES PJ 0351FEMA 0004

CONTRACT NO. C02300

GENERAL REQUIREMENTS NOTES

1. **STANDARDS:** ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF SANTA ROSA STANDARD PLANS, THE CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS FOR THIS PROJECT AND THE STATE STANDARD SPECIFICATIONS AND STANDARD PLANS. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING ALL STANDARDS PERTAINING TO THIS PROJECT.

2. **COMPOSITE BASE SHEET:** THE PROPOSED IMPROVEMENTS SHOWN ON THESE DRAWINGS ARE SUPERIMPOSED ON A BASE SHEET COMPOSED OF BOUNDARY, TOPOGRAPHIC, AND UNDERGROUND UTILITY INFORMATION PROVIDED BY CITY OF SANTA ROSA GIS AND CARLILE MACY. THIS BASE SHEET INFORMATION IS SHOWN IN HALF TONE ON THE PLANS. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR OTHER ERRORS ON THESE BASE SHEETS. THE COMPOSITE BASE SHEET IS PROVIDED AS AN AID ONLY AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS AND INCORPORATING/INTEGRATING ALL CONSTRUCTION AS REQUIRED TO ACCOMMODATE SAME.

THE BASE SHEET SOURCES FOR THESE DRAWINGS ARE:

- "2020-02-05_FOUNTAINGROVE_SHEETS 1-13,47-48.DWG",
- "2020-02-05_FOUNTAINGROVE_SHEETS 14-25,44-46.DWG",
- "2020-02-05_FOUNTAINGROVE_SHEETS 26-35.DWG",
- "2020-02-05_FOUNTAINGROVE_SHEETS 36-46.DWG", FOUNTAINGROVE PARKWAY FIRE DAMAGED LANDSCAPE SERVICES, PREPARED BY BKF ENGINEERS, 2/5/2020, 707-583-8500
- "2020-01-03_COFFEY PARK ALL.DWG", COFFEY PARK FIRE DAMAGED LANDSCAPE SERVICES, PREPARED BY BKF ENGINEERS, 1/3/2020, 707-583-8500
- "020005-TP -RINCON.DWG", RINCON RIDGE PARK, PREPARED BY CARLILE MACY, 3/30/2021, 707-542-6451

3. **FIELD CONDITIONS:** FIELD CONDITIONS MAY VARY FROM THE INFORMATION SHOWN ON THE PLANS. LOCATIONS OF EXISTING TREES ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS AND FOR REVIEWING DISCREPANCIES WITH THE CITY'S REPRESENTATIVE. THE CITY AND CITY'S REPRESENTATIVE ASSUME NO RESPONSIBILITY FOR FIELD CONDITIONS AND REQUIRED MODIFICATIONS.

4. **EXCAVATION:** THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 NO LESS THAN 2 WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARK OUTS OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH SECTION 5-1.36E OF THE SPECIAL PROVISIONS. EXCAVATION IS DEFINED AS BEING 18 OR MORE INCHES IN DEPTH BELOW THE EXISTING SURFACE.

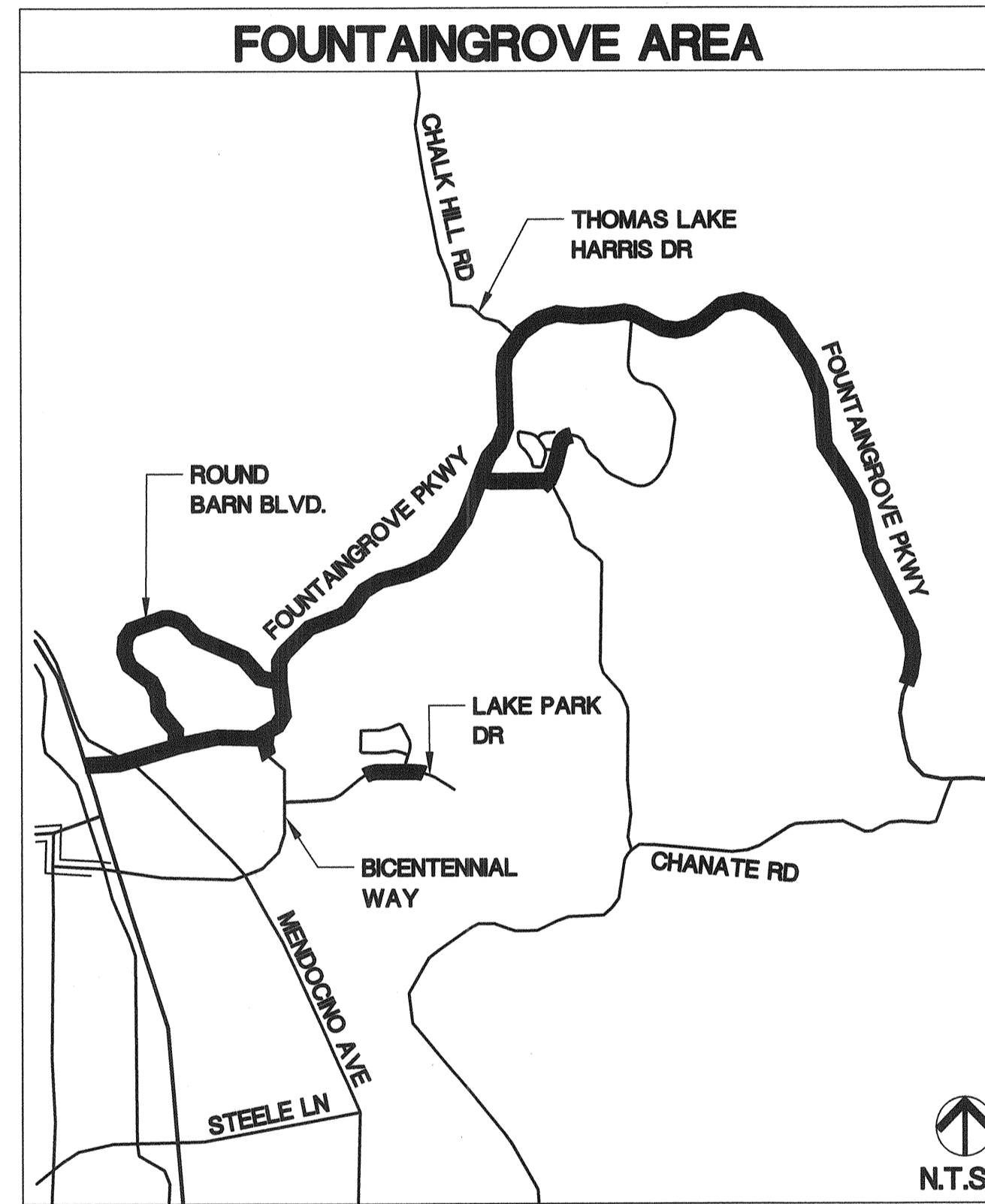
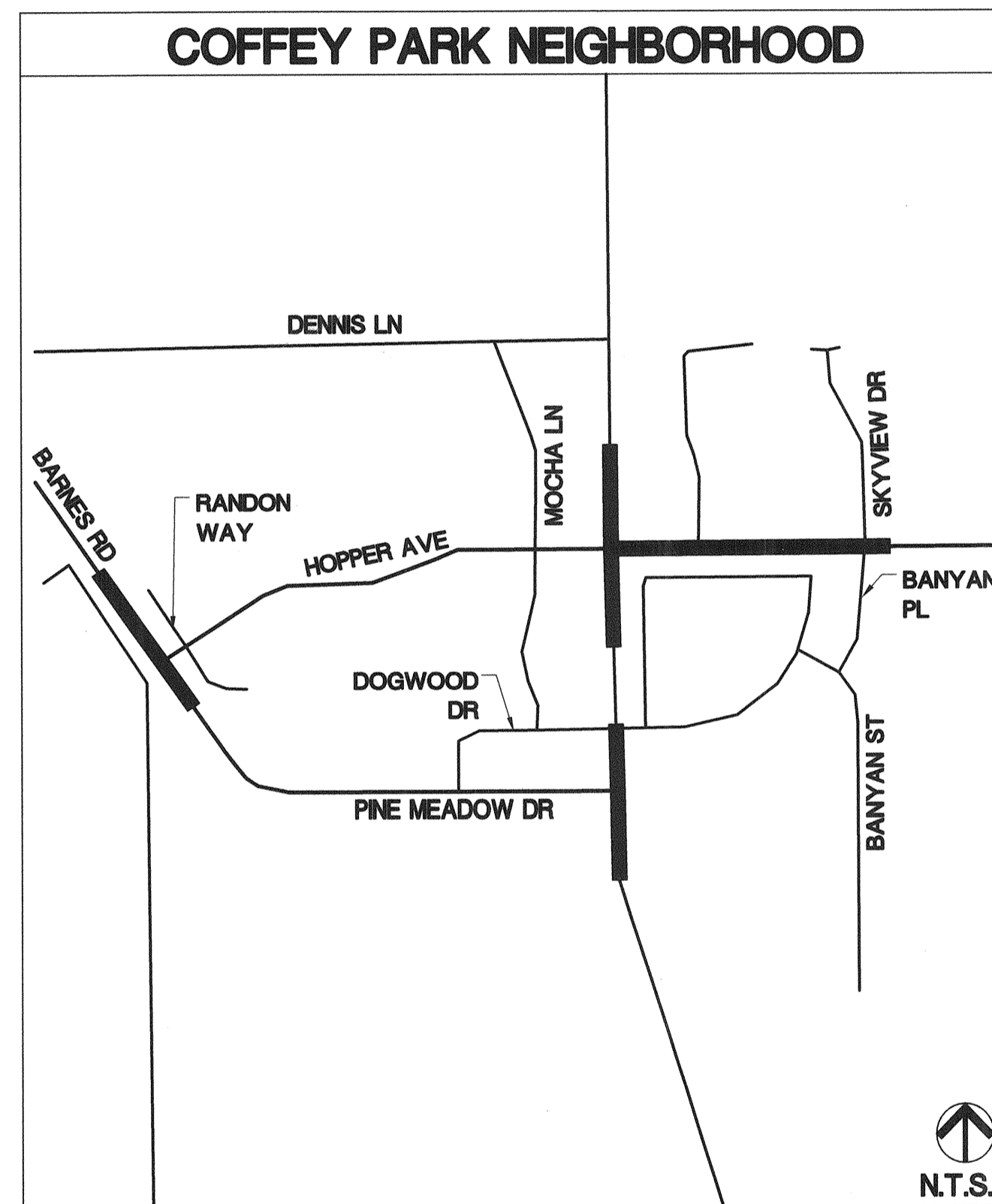
5. **UTILITIES:** THE LOCATIONS OF UNDERGROUND UTILITIES AND OTHER OBSTACLES SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FOTHOLE AND DETERMINE THE EXACT LOCATION OF ALL POTENTIAL CONFLICTS IN ACCORDANCE WITH U.S.A. LAWS AND THESE SPECIAL PROVISIONS AND THE STANDARD SPECIFICATIONS. IF ANY UNMARKED UTILITIES ARE ENCOUNTERED, OR IF UNABLE TO LOCATE A MARKED UTILITY AFTER FOT HOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THAT UTILITY AND THE CITY'S REPRESENTATIVE.

THE CITY'S REPRESENTATIVE ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF DELINEATION OF UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH ARE NOT SHOWN ON THESE DRAWINGS.

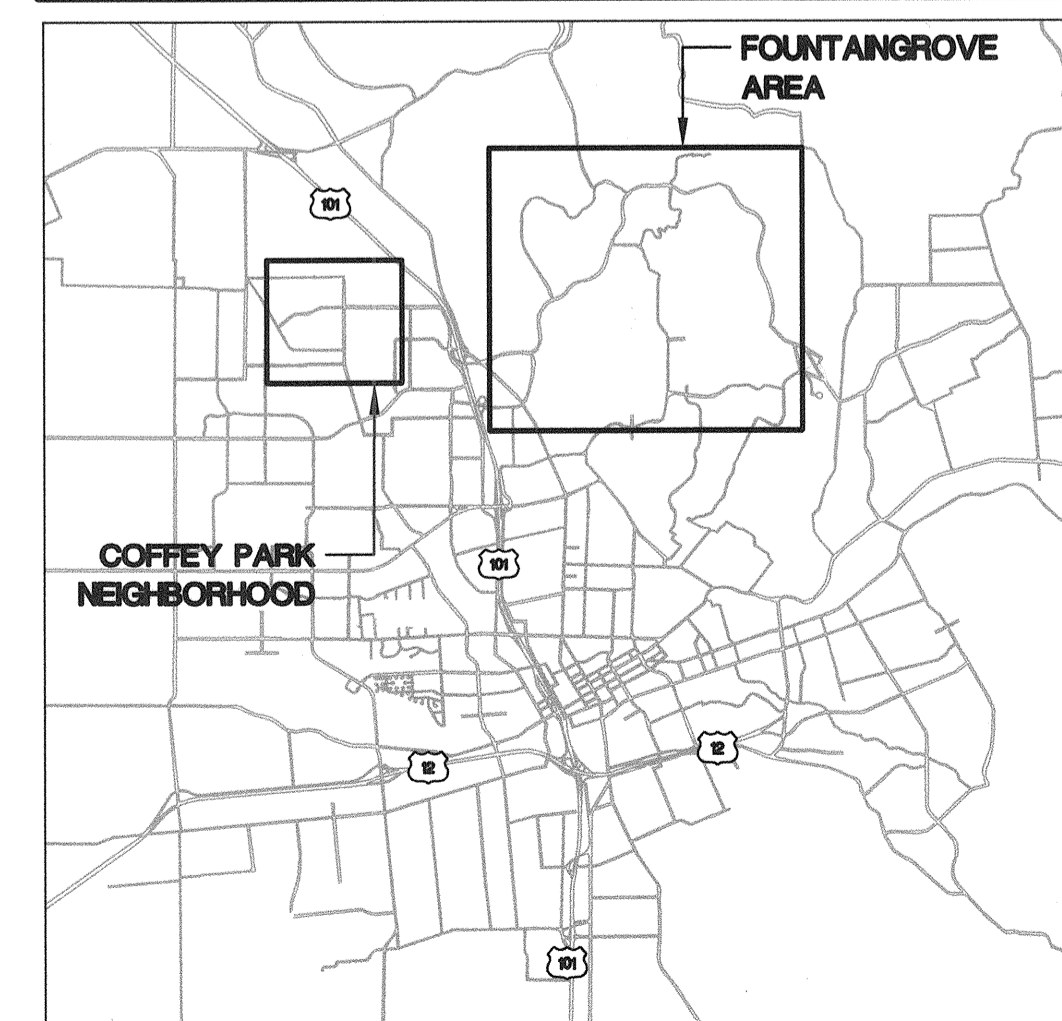
6. **CITY ACCESS:** ALL SEWER MANHOLES, MAINLINE CLEANOUTS AND WATER VALVES THAT ARE ON ACTIVE SYSTEMS SHALL BE ACCESSIBLE TO CITY PERSONNEL AT ALL TIMES AND SHALL BE BROUGHT TO GRADE WITHIN 48 HOURS OF PAVING.

7. **MONUMENTS:** THE CONTRACTOR SHALL PROTECT AND PRESERVE CITY MONUMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER 10 WORKING DAYS IN ADVANCE FOR REFERENCING OF EXISTING MONUMENTS TO BE DISTURBED. THE CONTRACTOR SHALL

LOCATION MAPS



VICINITY MAP



RECONSTRUCT DISTURBED MONUMENTS IN ACCORDANCE WITH CITY STANDARD 280.

8. **OVERHEAD UTILITIES:** OVERHEAD UTILITY SERVICE DROPS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF LIMITED CLEARANCES UNDER OVERHEAD UTILITY LINES AND LOW HANGING TREE BRANCHES. THE CONTRACTOR'S TRUCKS AND EXCAVATION EQUIPMENT SHALL BE SIZED SO THAT OVERHEAD WIRES AND TREE BRANCHES ARE NOT DAMAGED.

9. **DISPOSAL:** ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AS GENERATED AND AT NO TIME SHALL THE CONTRACTOR PLACE EXCAVATED MATERIAL AT THE WORK SITE.

10. **TREE PROTECTION AND MAINTENANCE REQUIREMENTS:** SHALL BE PER TREE PROTECTION NOTES, SHEET LNI.01. THE CONTRACTOR SHALL ONLY REMOVE EXISTING TREES OR SHRUBS AS NOTED ON THE PLANS OR AS DIRECTED BY THE CITY'S REPRESENTATIVE.

11. **PAVEMENT MARKINGS:** FOR CLARITY OF EXISTING SUBSURFACE CONDITIONS, NOT ALL CROSSWALKS, STOP BARS, OR EXISTING PAVEMENT MARKINGS ARE SHOWN ON THE PLANS. TRAFFIC STRIPES, RAISED PAVEMENT MARKERS AND PAVEMENT MARKINGS DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED PER CITY OF SANTA ROSA TRAFFIC STANDARDS PART III, TRAFFIC MARKINGS. PATCHING OF DAMAGED MARKINGS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER. ALL DAMAGED RAISED PAVEMENT (NON-REFLECTIVE) MARKERS MUST BE CERAMIC.

TABLE OF CONTENTS

L0.00	COVER SHEET	1
L0.01	SHEET INDEX	2
LNI.00	DEMOLITION NOTES AND LEGEND	3
LNI.01	TREE PROTECTION NOTES	4
LI.01-LI.35	EXISTING CONDITIONS AND DEMOLITION PLANS	5-39
EI.1-EI.2	ELECTRICAL LEGEND AND DETAILS	40-41
E2.06-E2.32	ELECTRICAL PLANS	42-49
C1.00	UTILITY NOTES AND LEGEND	50
C1.02-C1.32	UTILITY PLANS	51-63
ID.00	IRRIGATION LEGEND AND NOTES	64
ID.01	IRRIGATION CITY DETAILS	65
ID.02-ID.05	IRRIGATION DETAILS	66-67
ID.04-ID.05	IRRIGATION PUMP DETAILS	68-69
IR.01-IR.32	IRRIGATION PLANS	70-100
IR.33-IR.34	WATER USE CALCULATIONS	101-102
LN2.00-LN2.01	PLANTING NOTES, LEGEND AND DETAILS	103-104
L2.01-L2.35	PLANTING PLANS	105-139

USE OF DOCUMENTS

A. User acknowledges Callander Associates Landscape Architecture, Inc.'s (Callander Associates) construction documents, including electronic files, reports, plans, specifications, or other construction documents prepared by Callander Associates as instruments of professional service and that these instruments are intended only for use on this project, and not any future phases or for other uses. The User shall not reuse or make any modification to the construction documents without the prior written authorization of Callander Associates. In the event the User, the User's contractors or subcontractors, or anyone for whom the User is legally liable, makes or permits to be made any changes to the construction documents without obtaining Callander Associates' prior written consent, the User shall assume full responsibility for the results of such changes.

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BEFORE EXCAVATING
CALL USA
UNDERGROUND SERVICE ALERT
800-642-2444
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATION

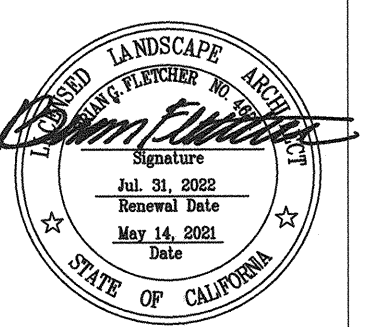
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SCALE:	AS SHOWN	DWN BY:	DC	DATE:	05/14/2021	CHK BY:	MR	APPROVED:	Deputy Director - Engineering	Date:	5/18/21
CITY OF SANTA ROSA											
FIRE DAMAGED ROADWAY LANDSCAPING											
COVER SHEET											
CONTRACT NO. C02300											
SHEET 01 OF 139											
FILE NO. 2020-0011											

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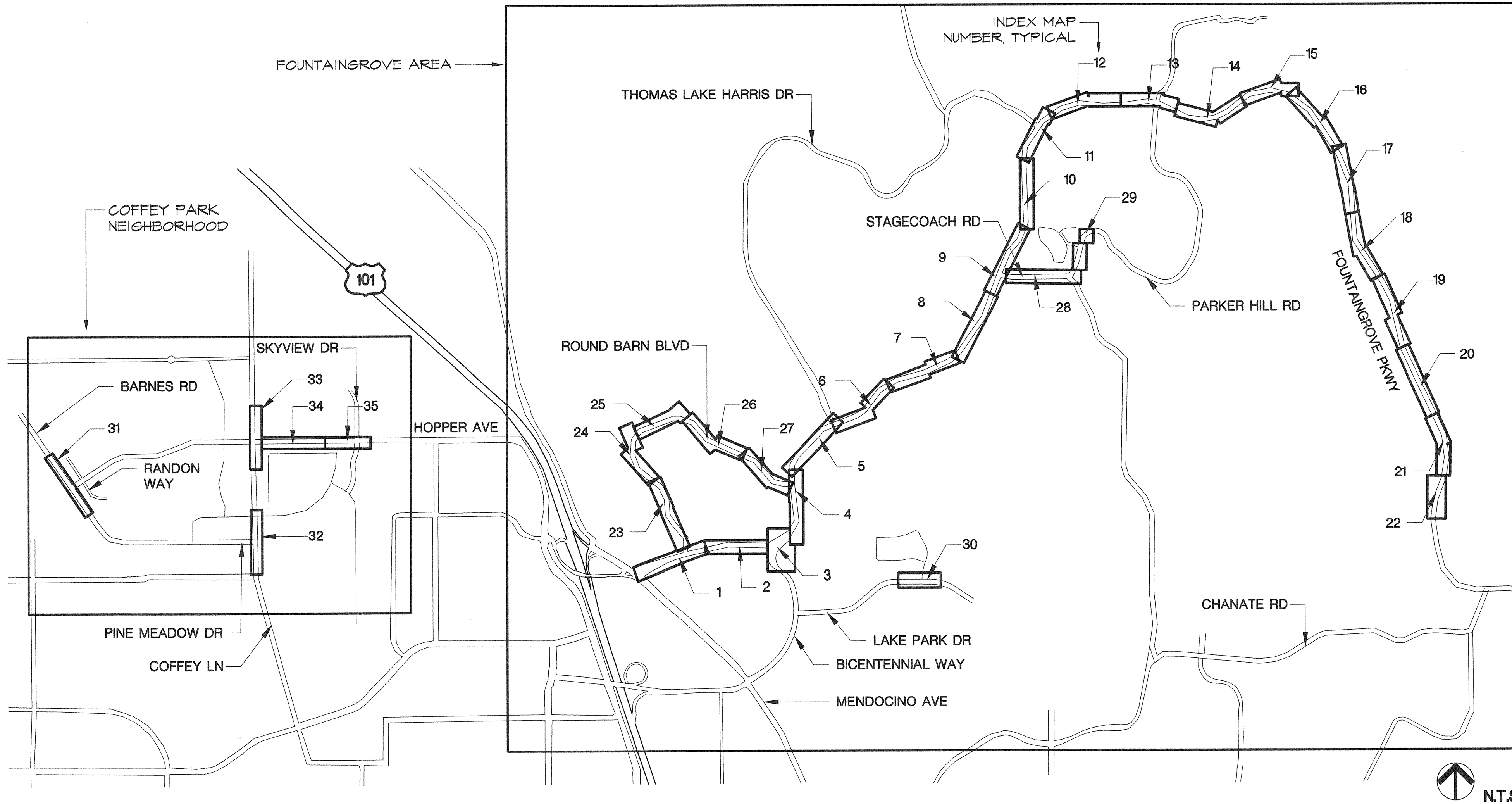
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INDEX MAP



SHEET INDEX

INDEX MAP NO.	EXISTING CONDITIONS & DEMOLITION PLANS	ELECTRICAL PLANS	UTILITY PLANS	IRRIGATION PLANS	PLANTING PLANS
NOTES AND LEGENDS	LN1.00	E1.1-E1.2	C1.00	ID.00-ID.05	LN2.00-LN2.01
1	L1.01	-	-	IR.01	L2.01
2	L1.02	-	C1.02	IR.02	L2.02
3	L1.03	-	-	IR.03	L2.03
4	L1.04	-	-	IR.04	L2.04
5	L1.05	-	-	IR.05	L2.05
6	L1.06	E2.06	C1.06	IR.06	L2.06
7	L1.07	-	-	IR.07	L2.07
8	L1.08	E2.08	C1.08	IR.08	L2.08
9	L1.09	-	-	IR.09	L2.09
10	L1.10	-	-	IR.10	L2.10
11	L1.11	E2.11	C1.11	IR.11	L2.11
12	L1.12	-	-	IR.12	L2.12
13	L1.13	E2.13	C1.13	IR.13	L2.13
14	L1.14	E2.14	C1.14	IR.14	L2.14
15	L1.15	-	-	IR.15	L2.15
16	L1.16	-	-	IR.16	L2.16
17	L1.17	E2.17	C1.17	IR.17	L2.17
18	L1.18	-	-	IR.18	L2.18
19	L1.19	-	-	IR.19	L2.19
20	L1.20	-	C1.20	IR.20	L2.20
21	L1.21	-	-	IR.21	L2.21
22	L1.22	-	C1.22	IR.22	L2.22
23	L1.23	-	C1.23	IR.23	L2.23
24	L1.24	-	-	IR.24	L2.24
25	L1.25	-	-	IR.25	L2.25
26	L1.26	-	C1.26	IR.26	L2.26
27	L1.27	-	-	IR.27	L2.27
28	L1.28	-	-	IR.28	L2.28
29	L1.29	-	-	IR.29	L2.29
30	L1.30	-	-	-	L2.30
31	L1.31	E2.31	C1.31	IR.31	L2.31
32	L1.32	E2.32	C1.32	IR.32	L2.32
33	L1.33	-	-	IR.33	L2.33
34	L1.34	-	-	IR.34	L2.34
35	L1.35	-	-	-	L2.35

ABBREVIATIONS

GENERAL:

CL CENTERLINE
 (E) EXISTING TO REMAIN
 (N) NEW
 N.I.C. NOT IN CONTRACT
 P.O.C. POINT OF CONNECTION
 (R) EXISTING TO BE REMOVED
 (RL) RELOCATED EXISTING
 SLD SEE LANDSCAPE DRAWINGS
 SWPPP STORMWATER POLLUTION PREVENTION PLAN
 T.R. TO REMAIN
 TBD TO BE DETERMINED
 T.B.R. TO BE REMOVED
 TYP TYPICAL
 U.O.N. UNLESS OTHERWISE NOTED

TOPO / UTILITIES:

AC ASPHALT CONCRETE
 BFP BACKFLOW PREVENTER
 DW DRIVEWAY
 E ELECTRIC
 EP EDGE OF PAVEMENT
 G GAS
 IR IRRIGATION
 MB MAILBOX
 MH MANHOLE
 PG&E PACIFIC GAS & ELECTRIC

TOPO / UTILITIES:

RTWL RETAINING WALL
 SD STORM DRAIN
 SL STREET LIGHT
 SS SANITARY SEWER
 TEL TELECOMMUNICATION LINE
 TF TRANSFORMER
 TS TRAFFIC SIGNAL
 UB UTILITY BOX
 VLT VAULT
 W WATER

ELECTRICAL:

A AMPERE
 AFG ABOVE FINISHED GRADE
 AWG AMERICAN WIRE GAUGE
 C CONDUIT
 CB CIRCUIT BREAKER
 CO CONDUIT ONLY
 CKT CIRCUIT
 CU COPPER
 EGC EQUIPMENT GROUNDING CONDUCTOR
 GEC GROUNDING ELECTRODE CONDUCTOR
 JP JOINT POLE
 KCMIL KILO CIRCULAR MIL (AREA OF CROSS SECTION OF WIRE)
 LED LIGHT EMITTING DIODE
 LTG LIGHTING

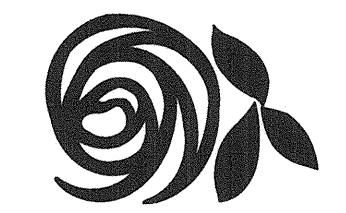
ELECTRICAL:

PB FULLBOX
 PCC PORTLAND CEMENT CONCRETE
 PVC POLYVINYL CHLORIDE
 TS TIMESWITCH
 V VOLT
 W WATT
 WP WEATHERPROOF

IRRIGATION:

ARV AIR RELIEF VALVE
 B BUBBLER
 CT CONTROLLER
 DL DRIPLINE
 GV GATE VALVE
 PRV PRESSURE REDUCE VALVE
 PVC PIPE POLYVINYL CHLORIDE PIPE
 QC QUICK COUPLER
 RCV REMOTE CONTROL VALVE

City of Santa Rosa



NO.	DATE	BY	REVISION

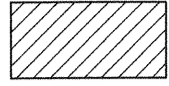
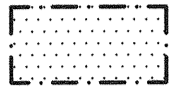


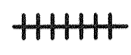


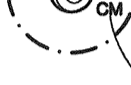










CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING

SHEET INDEX

CONTRACT NO.
 C02300
 SHEET 02 OF 139
 FILE NO. 2020-0011

L0.01

EROSION CONTROL AND DEMOLITION LEGEND*

	CLEAR AND GRUB, SEE DEMOLITION NOTE #1
	CLEAR AND GRUB WITHIN ROOT PROTECTION ZONE. REFER TO TREE PROTECTION NOTES ON SHEET LNI.01
	APPROXIMATE EXTENT OF EXISTING LOG PILE OR DEBRIS
	REMOVE AND DISPOSE OF ITEM
	FIBER ROLL, REFER TO SWPPP. WHERE PLANS AND SWPPP CONFLICT, DEFER TO SWPPP
	STORM DRAIN INLET PROTECTION, REFER TO SWPPP
	EXISTING TREE TO REMAIN, PROTECT IN PLACE
	ROOT PROTECTION ZONE: REFER TO TREE PROTECTION NOTES ON SHEET LNI.01
	TREE TYPE, SEE TREE ABBREVIATION LIST
	EXISTING TREE TO BE REMOVED
	TREE TYPE, SEE TREE ABBREVIATION LIST
	FEMA FIRE DAMAGED TREE TO REMAIN. HAZARD PRUNING PERFORMED UNDER SEPARATE CONTRACT.
	FEMA FIRE DAMAGED TREE REMOVED UNDER SEPARATE CONTRACT. NOTIFY CITY REPRESENTATIVE IF TREE HAS NOT BEEN REMOVED.
	EXISTING STREET LIGHT T.R.
	EXISTING SIGN T.R.
	EXISTING FIRE HYDRANT T.R.
	EXISTING BOULDER
	DIRECTION OF VEHICULAR TRAVEL

*FOR ADDITIONAL SYMBOLS, REFER TO UTILITY NOTES AND LEGEND, SHEET CI.00

TREE ABBREVIATION LIST

CM	GRAPE MYRTLE
CP	CYPRESS
CT	CRATAEGUS
DO	DECIDUOUS OAK
EB	ELDERBERRY
EU	EUCALYPTUS
FR	FIR
HB	HACKBERRY
LO	LIVE OAK
LA	LIQUIDAMBAR
PN	PINE
PR	PEAR
PS	PISTACHE
RB	REDBUD
RW	REDWOOD
SM	SYCAMORE
TW	TALLOW
UNK	UNKNOWN
WA	WASHINGTONIA
ZK	ZELKOVA
SNAG	STANDING DEAD TREE
STUMP	EXISTING STUMP T.B.R. FOR BIDDING PURPOSES, ASSUME STUMP IS CUT WITHIN 12" OF GROUND LEVEL
T-####	FEMA FIRE DAMAGED TREE T.B.R. OR HAZARD
	PRUNED PER SANTA ROSA HAZARD TREE SURVEY, PREPARED BY AMERICAN TREE MEDICS, INC. 2/25/2019. CONTACT TERRI BLADOW, CITY OF SANTA ROSA, 707-543-3141.

DISPOSITION LIST

- 1 COBBLE NOSING T.R.
- 2 IRRIGATION CONTROLLER T.B.R. REMOVE CONTROLLER, ENCLOSURE, RELATED FOOTING AND RELATED CONDUIT AND WIRES BACK TO POINT OF CONNECTION. COORDINATE SAFE-OFF WITH PG&E AS REQUIRED.
- 3 BACKFLOW PREVENTER T.B.R. VERIFY THAT ASSOCIATED WATER METER HAS BEEN REMOVED BY OTHERS. IF WATER METER HAS NOT BEEN REMOVED, CAP AT METER AND NOTIFY CITY REPRESENTATIVE.
- 4 UTILITY BOX T.R.
- 5 STEEL ROAD BARRIER T.R.
- 6 BOULDERS T.R.
- 7 BOULDERS TO BE RELOCATED
- 8 EXISTING SHRUB T.R., SEE PLANTING PLAN FOR SPECIES.
- 9 INORGANIC DEBRIS PILE T.B.R.
- 10 LOG PILE T.B.R.

EROSION CONTROL NOTES

1. **GENERAL PERMIT REQUIREMENTS:** CONTRACTOR SHALL REFER TO THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY ASP INC., DATED APRIL 2020, AND FOLLOW THE GUIDELINES FOR THE CURRENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT (CAS000002) AND THE STATE OF CALIFORNIA'S GENERAL PERMIT (ORDER 2009-0009-DWG), INCLUDING BUT NOT LIMITED TO REQUIREMENTS FOR UPLOADING REQUIRED DATA TO THE STORMWATER MULTI-APPLICATION REPORT TRACKING SYSTEM (SMARTS).
2. **IMPLEMENTATION:** THE CONTRACTOR SHALL HAVE AN APPROVED QUALIFIED SWPPP PRACTITIONER (QSP), OR THE QSP'S APPOINTED INDIVIDUAL, ON SITE DURING ALL PERIODS OF CONSTRUCTION. THE QSP IS RESPONSIBLE FOR THE IMPLEMENTATION OF BMP'S AND THE MONITORING AND RECORDING OF EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
3. **RAIN EVENT ACTION PLAN:** CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM. A RAIN EVENT ACTION PLAN (REAP), AS SPECIFIED IN THE SWPPP, MUST BE IMPLEMENTED TO PROTECT ALL EXPOSED PORTIONS OF THE SITE WITHIN 48 HOURS PRIOR TO ANY LIKELY PRECIPITATION EVENT. CONTRACTOR SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE FOR CONSTRUCTION.
4. **EROSION AND SEDIMENT CONTROL:** ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE CITY AND THE QSP.
5. **FIELD CHANGES:** THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE CITY AND THE QSP.
6. **MAINTENANCE MEASURES:** ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED WEEKLY DURING PERIODS OF HEAVY USAGE, BI-WEEKLY DURING PERIODS OF NORMAL USAGE AND BEFORE AND AFTER ALL STORM EVENTS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
7. **BMP LOG:** QSP SHALL MAINTAIN A LOG AT THE SITE OF ALL INSPECTIONS OR MAINTENANCE OF BMP'S, AS WELL AS, ANY CORRECTIVE CHANGES TO THE BMP'S OR EROSION AND SEDIMENT CONTROL PLAN. CONTRACTOR IS REQUIRED TO NOTIFY THE QUALIFIED STORMWATER DEVELOPER (QSD) OF ANY CHANGES TO THE EROSION AND SEDIMENT CONTROL MEASURES SPECIFIED IN THE SWPPP.

8. **EXPOSED SOILS:** IN AREAS WHERE SOIL IS EXPOSED, PROMPT REPLANTING WITH NATIVE, DROUGHT-RESISTANT VEGETATION SHALL BE PERFORMED. NO AREAS WILL BE LEFT EXPOSED OVER THE WINTER SEASON.
9. **ROAD AND TIRE CLEANING:** ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AT THE END OF EACH WORKING DAY. ALL TRUCK TIRES SHALL BE CLEANED PROPERLY BEFORE LEAVING THE SITE.
10. **GENERAL HOUSEKEEPING:** CONTRACTOR SHALL IMPLEMENT HOUSEKEEPING PRACTICES PER THE SWPPP PREPARED FOR THIS PROJECT AND THE REQUIREMENTS OF THE GENERAL PERMIT.
11. **TRENCHES:** AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS-FLOW AT FREQUENT INTERVALS.
12. **CONTRACTOR RESPONSIBILITY:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED WITH ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURE MAINTENANCE THROUGHOUT THE DURATION OF THE PROJECT.
13. **DAMAGED EROSION CONTROL DEVICES:** DAMAGED EROSION CONTROL DEVICES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AS SOON AS PRACTICAL AFTER THE DAMAGE OCCURS.
14. **DAILY WATERING:** DURING GRADING OPERATIONS THE SITE SHALL BE WATERED ON A DAILY BASIS TO MINIMIZE THE RELEASE OF DUST AND OTHER PARTICULATE MATTER.
15. **ANNUAL STATUS REPORT:** IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLETE AND SUBMIT THE ANNUAL COMPLIANCE STATUS REPORT OF THE CONSTRUCTION STORM WATER PERMIT EACH YEAR.
16. **SPECIFICATIONS:** SEE ALSO WATER POLLUTION CONTROL SPECIFICATIONS.

DEMOLITION NOTES

1. **CLEAR AND GRUB:** CLEAR AND GRUB ALL EXISTING VEGETATION, UNLESS OTHERWISE INDICATED, AS REQUIRED FOR THE SITE CONSTRUCTION, IRRIGATION, AND PLANTING OPERATIONS. STRIP ALL ORGANIC MATTER TO A SUFFICIENT DEPTH TO COMPLETELY REMOVE SUCH MATERIAL. REMOVE HEADER BOARD UON. LIMITS OF CLEARING SHALL BE REVIEWED WITH CITY PRIOR TO COMMENCEMENT OF WORK.

REVIEW DEMOLITION, AND CLEARING AND GRUBBING REQUIREMENTS ON SITE WITH THE CITY'S REPRESENTATIVE PRIOR TO COMMENCING DEMOLITION OPERATIONS. IF NEARLY INSTALLED PLANTING, MULCH, OR IRRIGATION ARE ENCOUNTERED WITHIN THE PROJECT LIMITS, NOTIFY THE CITY REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK.

ALL AREAS OF CLEAR AND GRUB TO RECEIVE MULCH, PER PLANS.

REMOVAL OF INVASIVE SPECIES SHALL BE PER SPECIAL PROVISIONS SECTION 16-1.03-B-1.

ALL DEMOLITION OPERATIONS WITHIN THE DRIP LINE OF TREES SHALL CONFORM TO TREE PROTECTION NOTES, SHEET LNI.01.
2. **IRRIGATION EQUIPMENT:** REMOVE ALL VISIBLE EXISTING IRRIGATION EQUIPMENT AND ANY BELOW-GRADE COMPONENTS THAT WOULD INTERFERE WITH THE WORK DURING TRENCHING AND/OR LANDSCAPE SOIL PREPARATION OPERATIONS.
3. **STUMP GRINDING:** ALL EXISTING STUMPS AND LARGE ROOTS OF SNAGS, STUMPS AND TREES INDICATED FOR REMOVAL SHALL BE REMOVED PER SPECIAL PROVISIONS.
4. **PAVEMENT TO REMAIN:** ALL CONCRETE AND ASPHALT PAVEMENT, INCLUDING CURBS, GUTTERS, ROADS, SIDEWALKS, AND MAINTENANCE STRIPS, ARE TO REMAIN AND BE PROTECTED IN PLACE, UNLESS NOTED OTHERWISE. DAMAGE TO EXISTING HARDSCAPE, DURING MOBILIZATION, DEMOLITION OR CONSTRUCTION, SHALL BE REPAIRED AT NO COST TO THE CITY.
5. **FIELD CONDITIONS:** REFER TO GENERAL REQUIREMENT'S NOTE #3, EXISTING FEATURES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES, TREES, STUMPS, OR OTHER SITE FEATURES. ALL NON-IRRIGATION RELATED UTILITIES AND APPURTENANCES ARE TO REMAIN.
6. **DEPTH TO UTILITIES:** CONTRACTOR IS ADVISED THAT LIVE ELECTRICAL WIRES ASSOCIATED WITH STREET LIGHTING MAY BE ENCOUNTERED AT DEPTHS LESS THAN 18".



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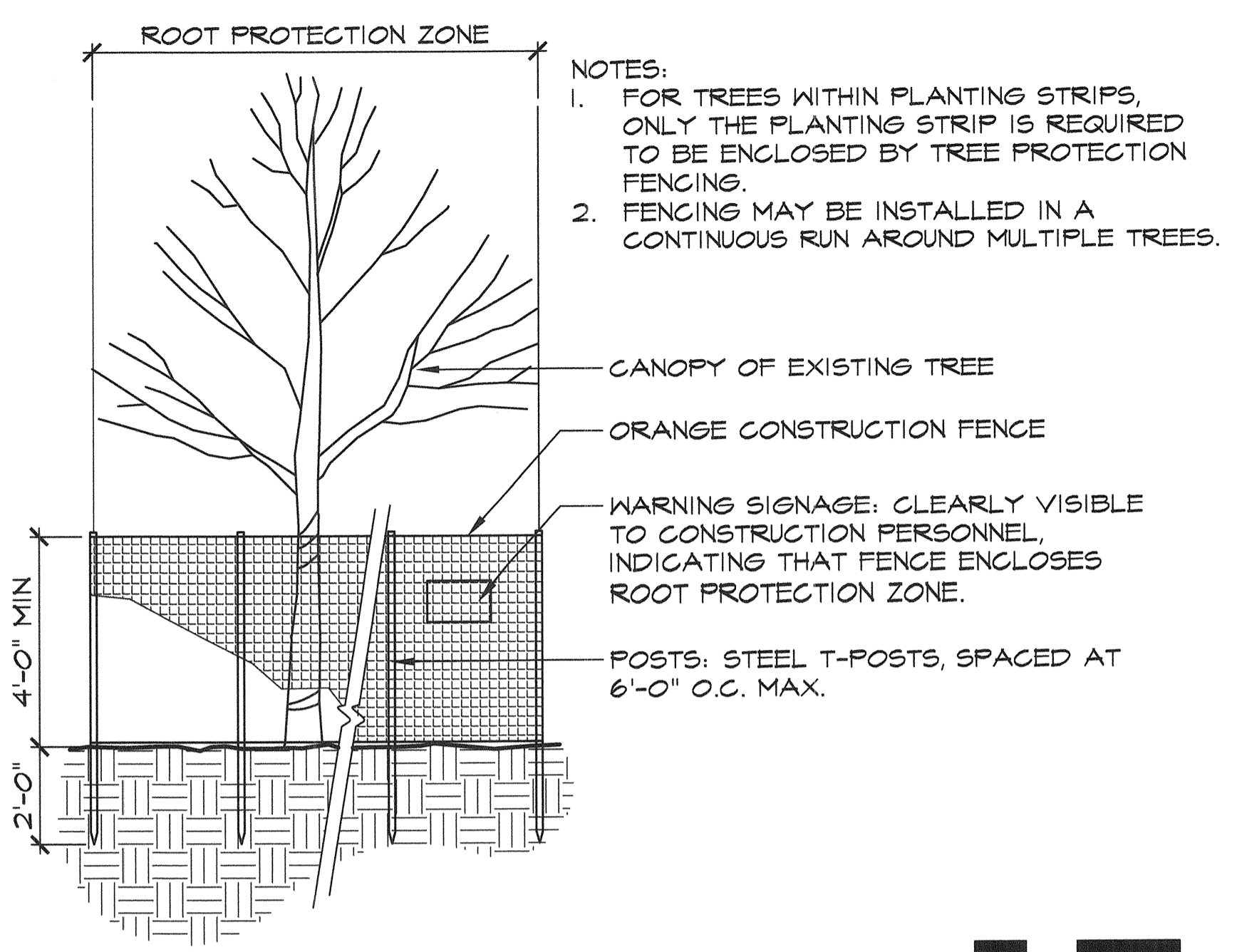
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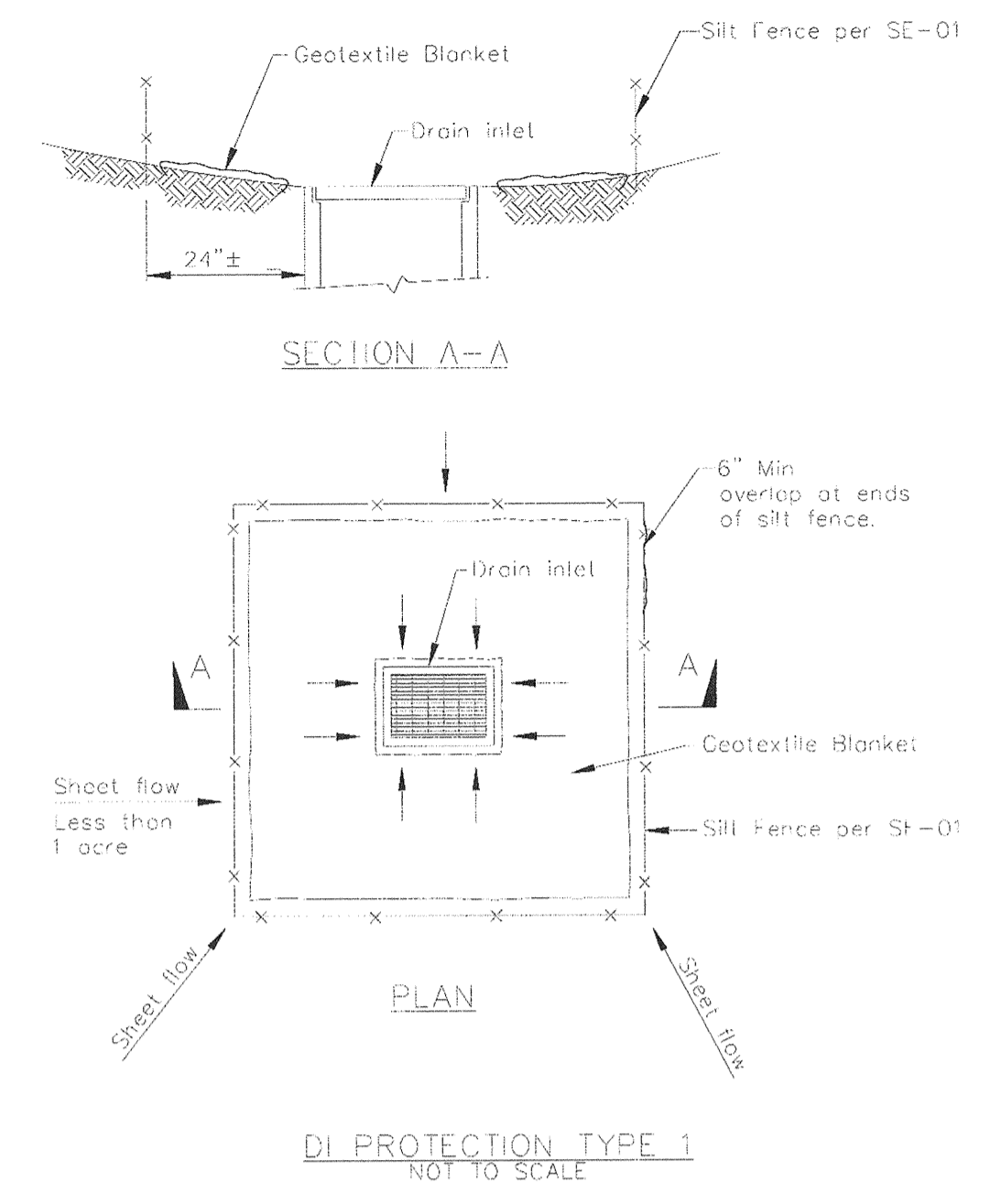
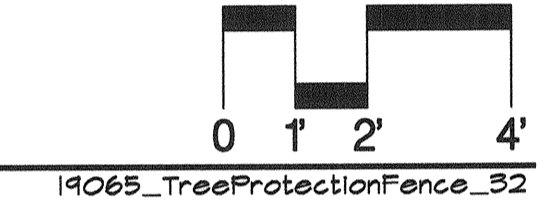
CITY OF SANTA ROSA FIRE DAMAGED ROADWAY LANDSCAPING	CONTRACT NO. C02300
DEMOLITION NOTES & LEGEND	SHEET 03 of 139
	FILE NO. 2020-0011

LN1.00

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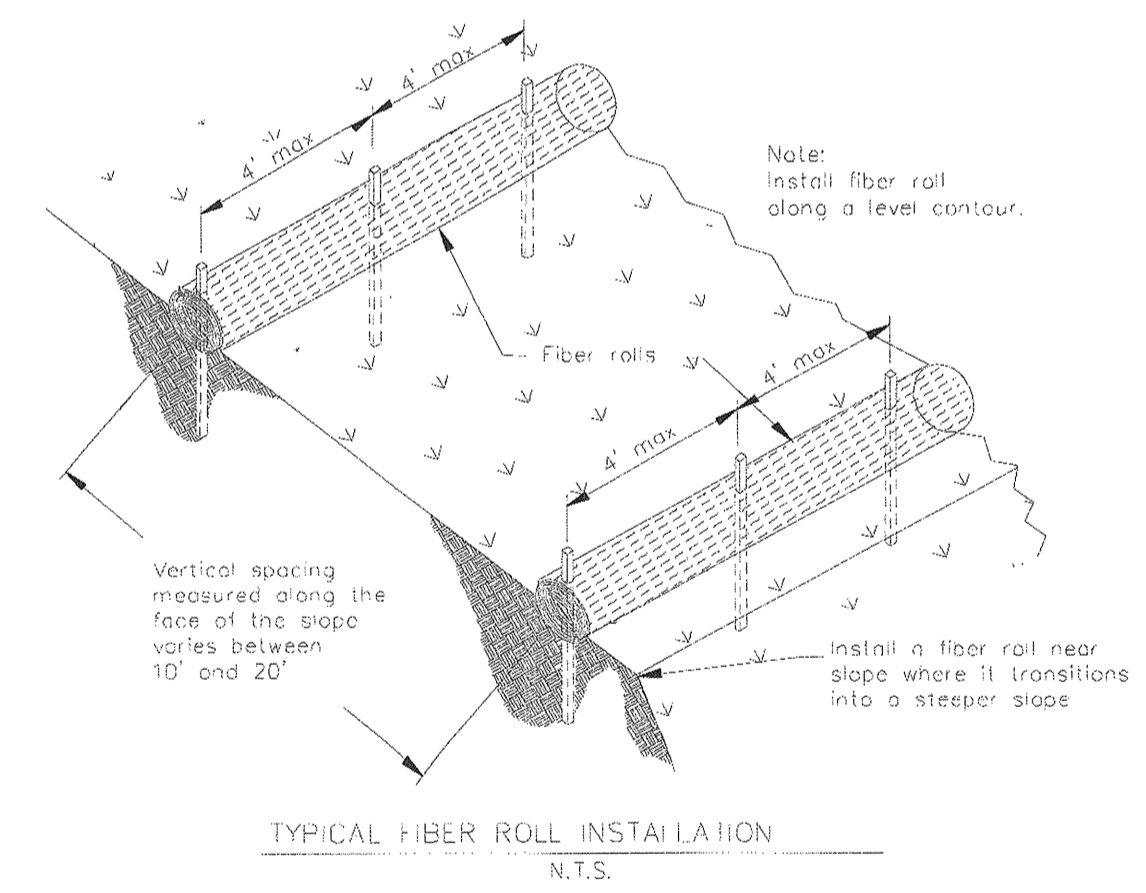
1 TREE PROTECTION FENCING
LN1.01 SECTION



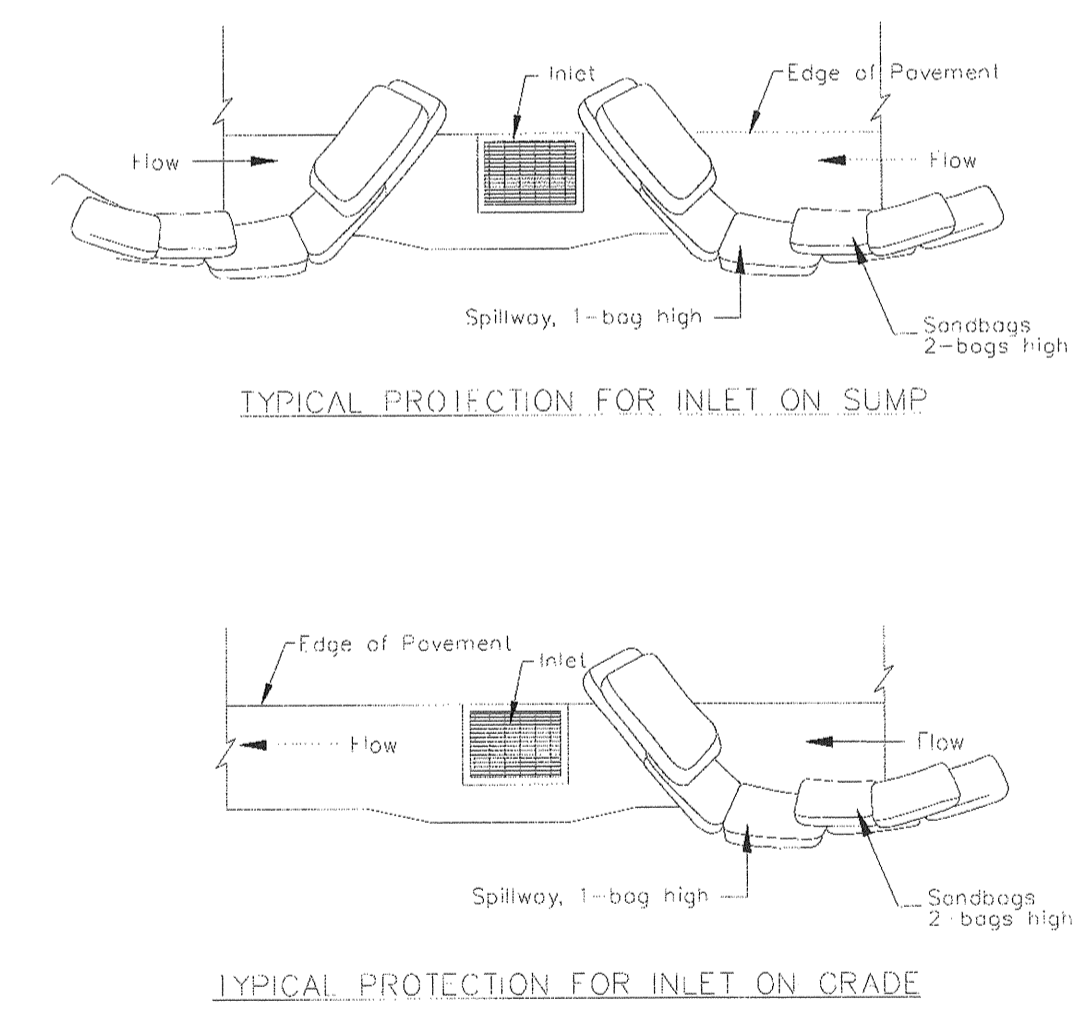
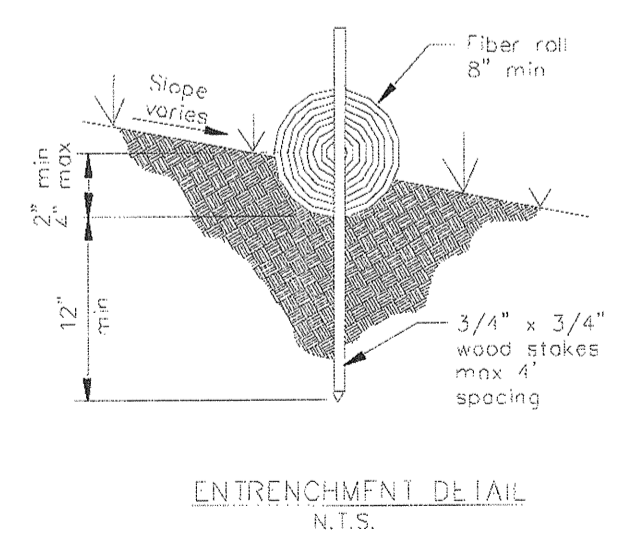
2 CATCH BASIN PROTECTION
LN1.01 CA STORMWATER BMP HANDBOOK SE-10, TYPE 1

NOTES:

- For use in areas where grading has been completed and final soil stabilization and seeding are pending.
- Not applicable in paved areas.
- Not applicable with concentrates flows.



3 FIBER ROLLS
LN1.01 CA STORMWATER BMP HANDBOOK SE-5



4 STORM DRAIN INLET PROTECTION
LN1.01 CA STORMWATER BMP HANDBOOK SE-10, TYPE 3

NOTES:

- Intended for short-term use.
- Use to inhibit non-storm water flow.
- Allow for proper maintenance and cleanup.
- Bags must be removed after adjacent operation is completed.
- Not applicable in areas with high silts and clays without filter fabric.

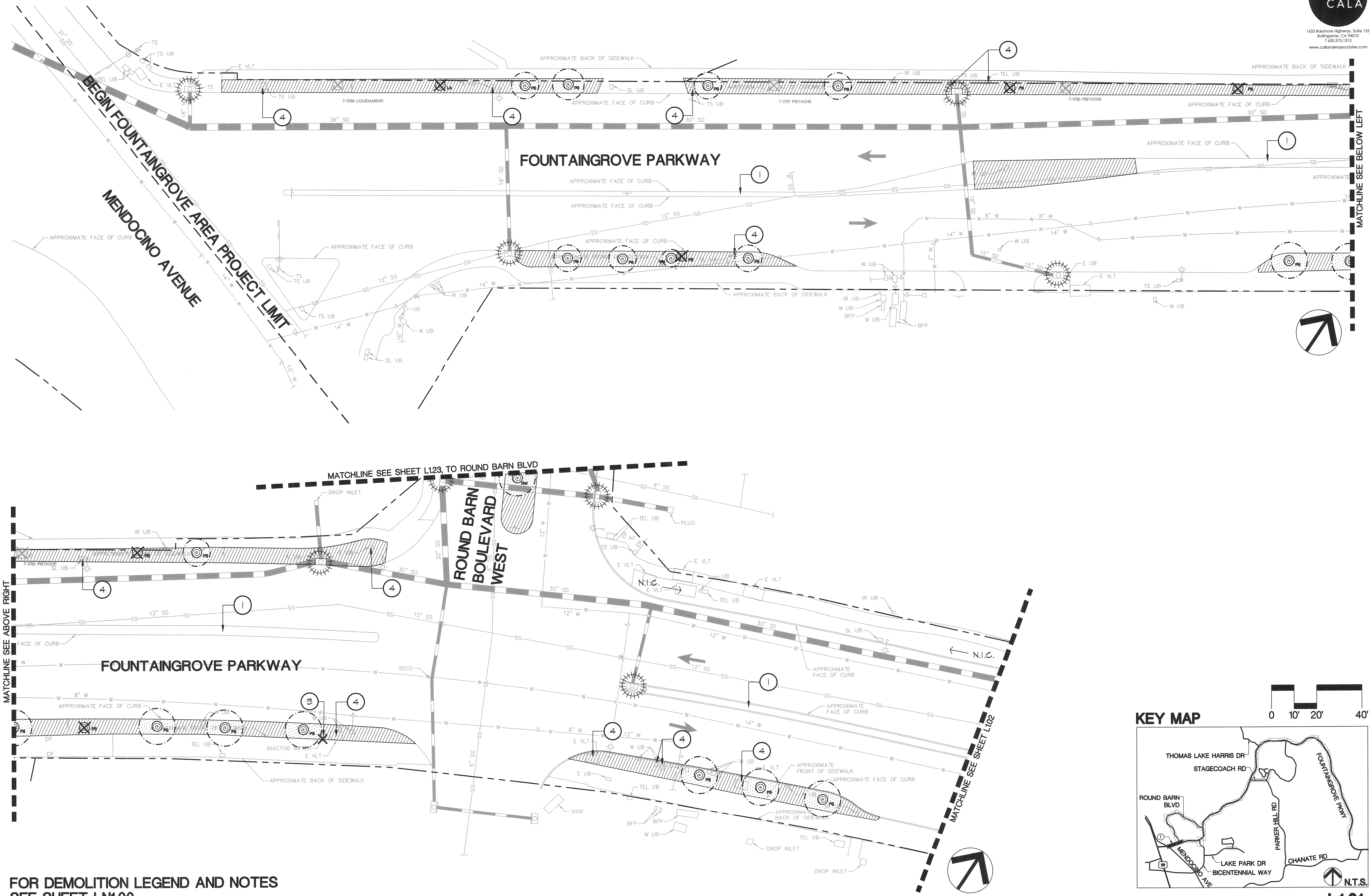
DI PROTECTION TYPE 3
NOT TO SCALE

TREE PROTECTION NOTES

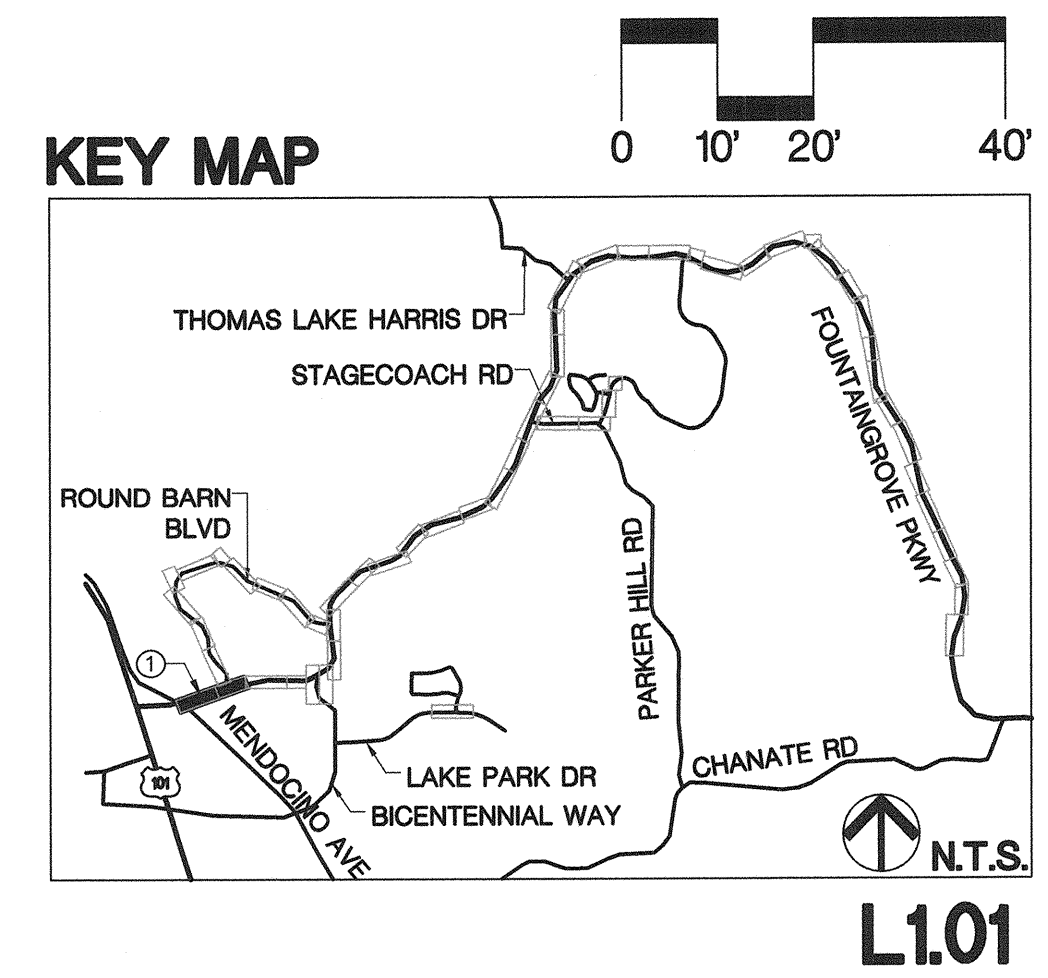
- CITY STANDARDS:** TREE PROTECTION SHALL COMPLY WITH THE SPECIFICATIONS. WHERE CITY REQUIREMENTS CONFLICT WITH THE CONSTRUCTION DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- PROJECT STARTUP:** PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL MEET ON-SITE WITH THE CERTIFIED ARBORIST AND CITY'S REPRESENTATIVE TO REVIEW ALL WORK PROCEDURES, ACCESS ROUTES, STORAGE AREAS, AND TREE PROTECTION MEASURES. FOR CERTIFIED ARBORIST REQUIREMENTS, REFERENCE SECTION 112-1.01-B OF THE SPECIAL PROVISIONS.
- ROOT PROTECTION ZONE:** ROOT PROTECTION ZONES SHOWN ON THE PLANS ARE APPROXIMATE. VERIFY IN FIELD. THE ROOT PROTECTION ZONE (RPZ) SHALL BE REGARDED AS THE AREA BENEATH A TREE'S CANOPY, OR EXTENDING FROM THE FACE OF THE TRUNK TO TEN (10) TIMES THE TREE'S DIAMETER AT BREAST HEIGHT (DBH), WHICHEVER IS GREATER. THERE SHALL BE NO DUMPING, WASHING OUT, OR STORAGE OF EQUIPMENT OR MATERIALS WITHIN THE RPZ OF ANY TREE. WORK WITHIN THE RPZ SHALL BE PERFORMED BY HAND, INCLUDING CLEAR AND GRUBBING.
- TREE PROTECTION FENCING:** ROOT PROTECTION ZONES SHALL BE FENCED ACCORDING TO DETAIL (1/LN 1.01). FENCING SHALL BE ERECTED PRIOR TO ANY DEMOLITION OR CONSTRUCTION ON SITE AND SHALL NOT BE REMOVED OR MODIFIED BEFORE PROJECT COMPLETION WITHOUT AUTHORIZATION FROM THE CERTIFIED ARBORIST. FENCING MAY BE INSTALLED IN A SINGLE RUN AROUND MULTIPLE TREES.
 - TREE PROTECTION MEASURES SHALL NOT BE MODIFIED TO FACILITATE CONSTRUCTION ACTIVITIES, EXCEPT WITH PRIOR REVIEW AND APPROVAL BY THE CERTIFIED ARBORIST.
 - DEMOLITION:** ALL EXISTING, UNUSED LINES OR PIPES BENEATH THE CANOPIES OF RETAINED TREES SHALL BE ABANDONED OR CUT OFF AT EXISTING SOIL GRADE.
 - MAINTENANCE DURING CONSTRUCTION:** APPLY A SIX INCH LAYER OF ARBOR MULCH WITHIN THE RPZ.
 - ANY ACCUMULATED CONSTRUCTION DUST ON LIMBS OR FOLIAGE IS TO BE REMOVED WITH WATER PERIODICALLY OR AS DIRECTED BY CERTIFIED ARBORIST.
 - TRENCHING AND GRADING:** THERE SHALL BE NO TRENCHING OR GRADING WITHIN THE RPZ EXCEPT WITH PRIOR APPROVAL OF THE CERTIFIED ARBORIST. WHERE TRENCHING HAS BEEN APPROVED, FOLLOW THE PROCEDURE OUTLINED IN NOTE #8 BELOW. ANY EQUIPMENT USED SHALL BE OPERATED OUTSIDE THE RPZ.
 - ALL UTILITIES, BOXES, METERS, VAULTS AND SERVICES ARE TO BE ROUTED BEYOND RPZ UNLESS SPECIFICALLY NOTED ON PLANS TO ROUTE WITHIN RPZ.
 - ANY GRADE CHANGES OUTSIDE THE RPZ SHALL NOT SIGNIFICANTLY ALTER DRAINAGE TO OR FROM THE TREE. NO GRADING SHALL OCCUR WITHIN THE RPZ. IF GRADING CONFLICTS ARISE, NOTIFY THE CERTIFIED ARBORIST PRIOR TO COMMENCING ADJACENT GRADING OPERATIONS.
 - ROOT CUTTING:** PRIOR TO EXCAVATING WITHIN A RPZ, A TRENCH SHALL BE DUG ALONG THE EDGE OF THE EXCAVATION CLOSEST TO THE TREE TRUNK. THIS TRENCH SHALL BE DUG BY HAND OR WITH AN AIR SPADE TO A DEPTH OF 30 INCHES, AND SHALL BE OF A SUFFICIENT WIDTH TO MANUALLY SEVER ANY ROOTS ENCOUNTERED GREATER THAN 2" DIAMETER. CUTS SHALL BE MADE PERPENDICULAR TO THE DIRECTION OF THE ROOT'S GROWTH, USING A CLEAN HAND SAW. AFTER ROOTS ARE CLEANLY SEVERED, EXCAVATION EQUIPMENT MAY BE USED AS REQUIRED ON THE SIDE OF THE TRENCH FARTHEST FROM THE TREE.
 - WITHIN ONE HOUR, CUT OR EXPOSED ROOTS SHALL BE COVERED WITH MOIST SOIL OR WITH BURLAP THAT IS KEPT WET UNTIL THE EXCAVATION CAN BE BACK-FILLED AND WATERED THOROUGHLY.
 - SOIL PREPARATION:** NO RIPPING OR ROTOTILLING SHALL OCCUR WITHIN THE RPZ, UNLESS APPROVED BY THE CERTIFIED ARBORIST.
 - PLANTING AND IRRIGATION:** NO PLANTING OR IRRIGATION SHALL BE INSTALLED WITHIN 6 FEET OF TRUNKS OF EXISTING TREES UNLESS OTHERWISE INDICATED ON PLANS. NEWLY PLANTED TREES SHALL BE IRRIGATED PER IRRIGATION DRAWINGS. MULCH SHALL NOT BE PLACED DIRECTLY AGAINST TRUNKS.
 - PRUNING:** AT NO TIME SHALL TREE LIMBS BE CUT BY CONSTRUCTION PERSONNEL. NO PRUNING SHALL TAKE PLACE EXCEPT AS DIRECTED BY THE CERTIFIED ARBORIST. WORK MUST BE PERFORMED BY A CERTIFIED ARBORIST IN ACCORDANCE WITH THE ISA TREE PRUNING GUIDELINES.
 - DAMAGE:** THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE TO EXISTING TREES, I.E. TRUNK WOUNDS, BROKEN LIMBS, POURING OF ANY DELETERIOUS MATERIALS, OR CONCRETE WASHOUT UNDER THE DRIPLINE OF THE TREES. DAMAGES WILL BE ASSESSED USING THE "GUIDE TO PLANT APPRAISAL" 9TH EDITION, PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE. ANY DAMAGE OR INJURY TO TREES DURING CONSTRUCTION SHALL BE REPORTED TO THE CERTIFIED ARBORIST IMMEDIATELY SO THAT REMEDIAL ACTION CAN BE TAKEN.

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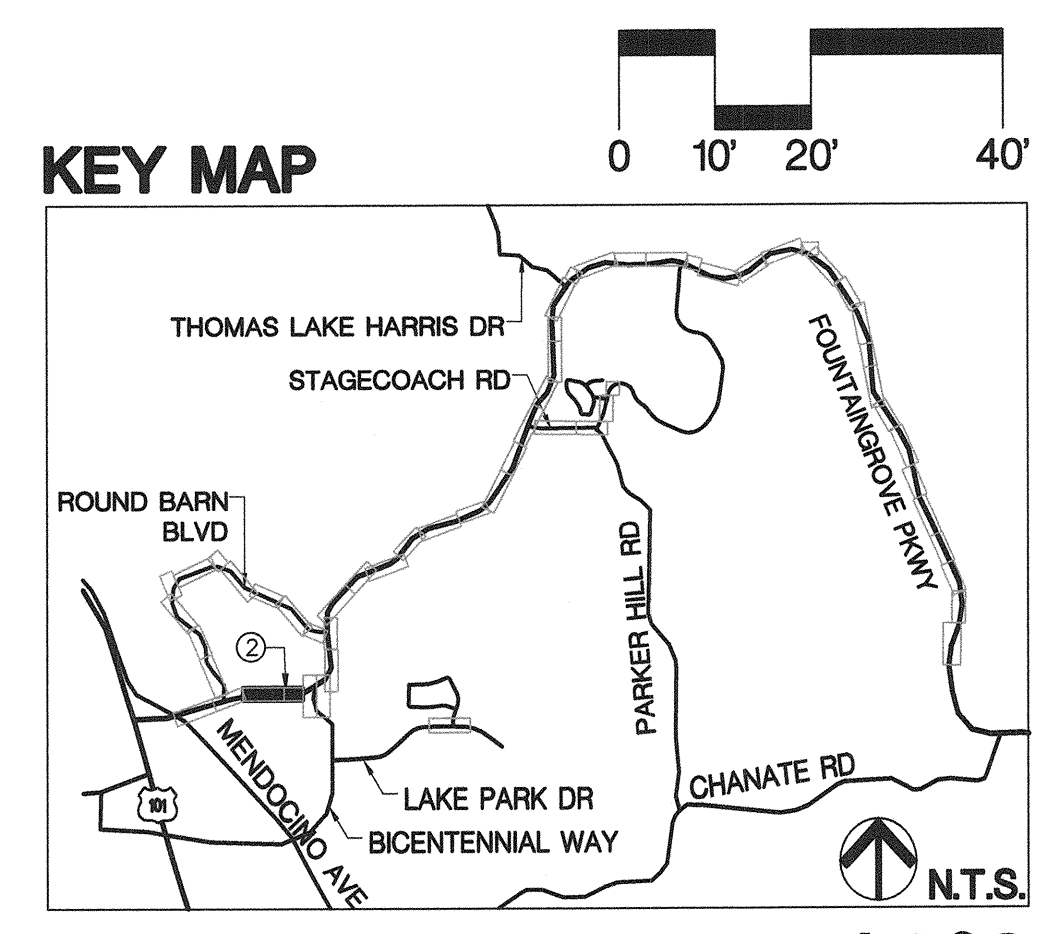
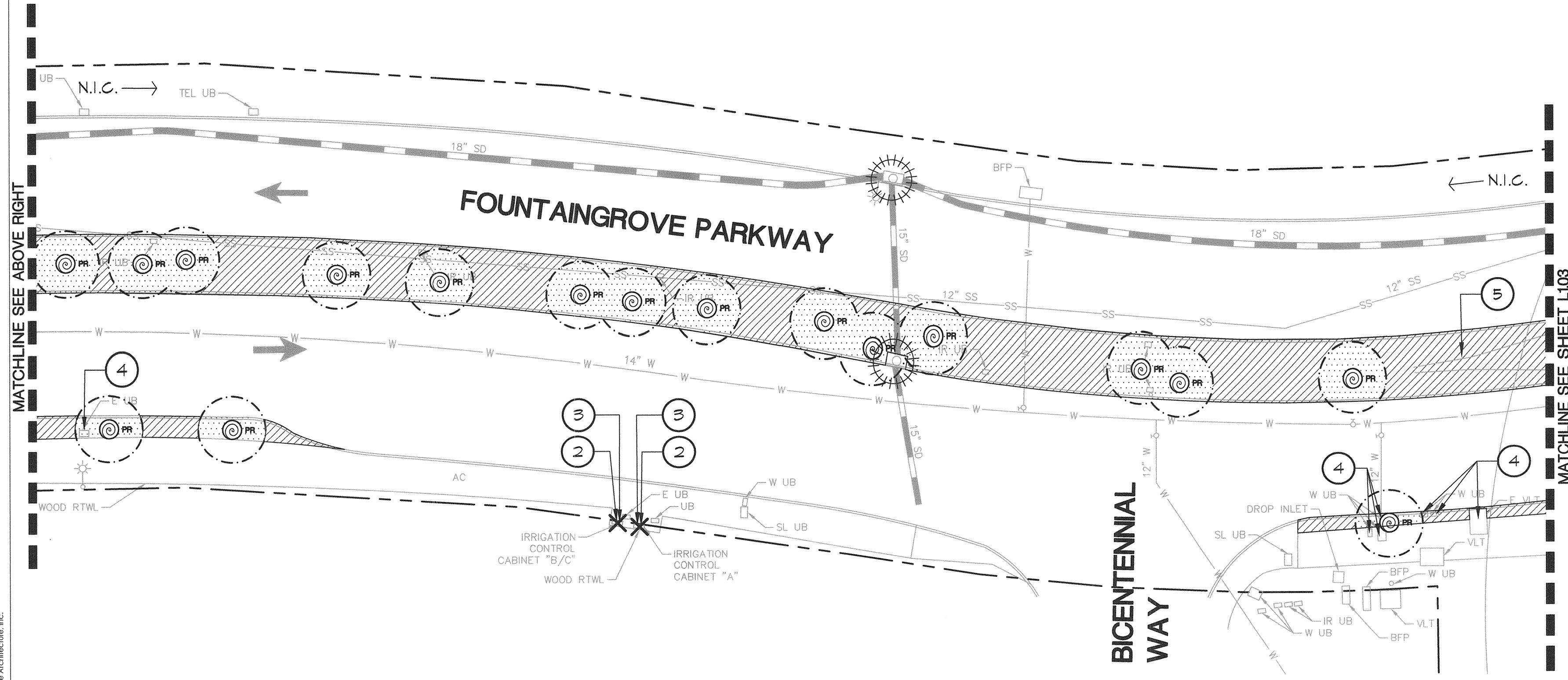
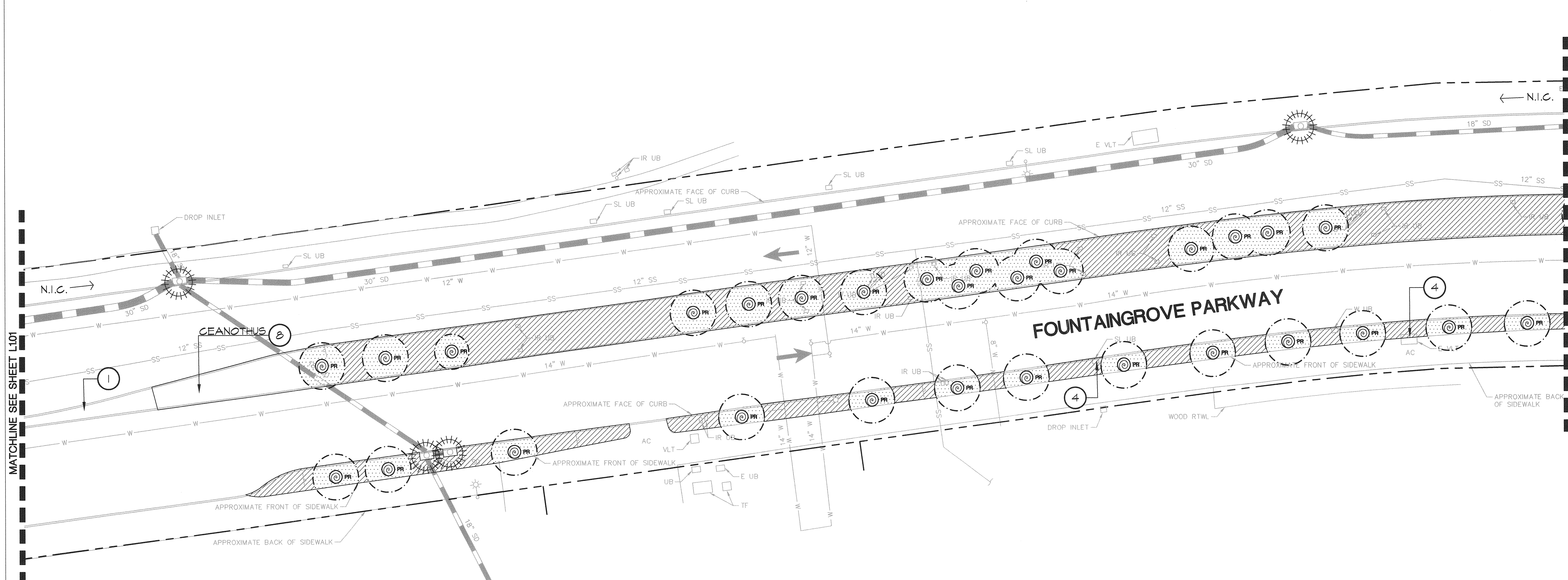


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DEMOLITION PLAN
 CONTRACT NO. C02300
 SHEET 05 OF 139
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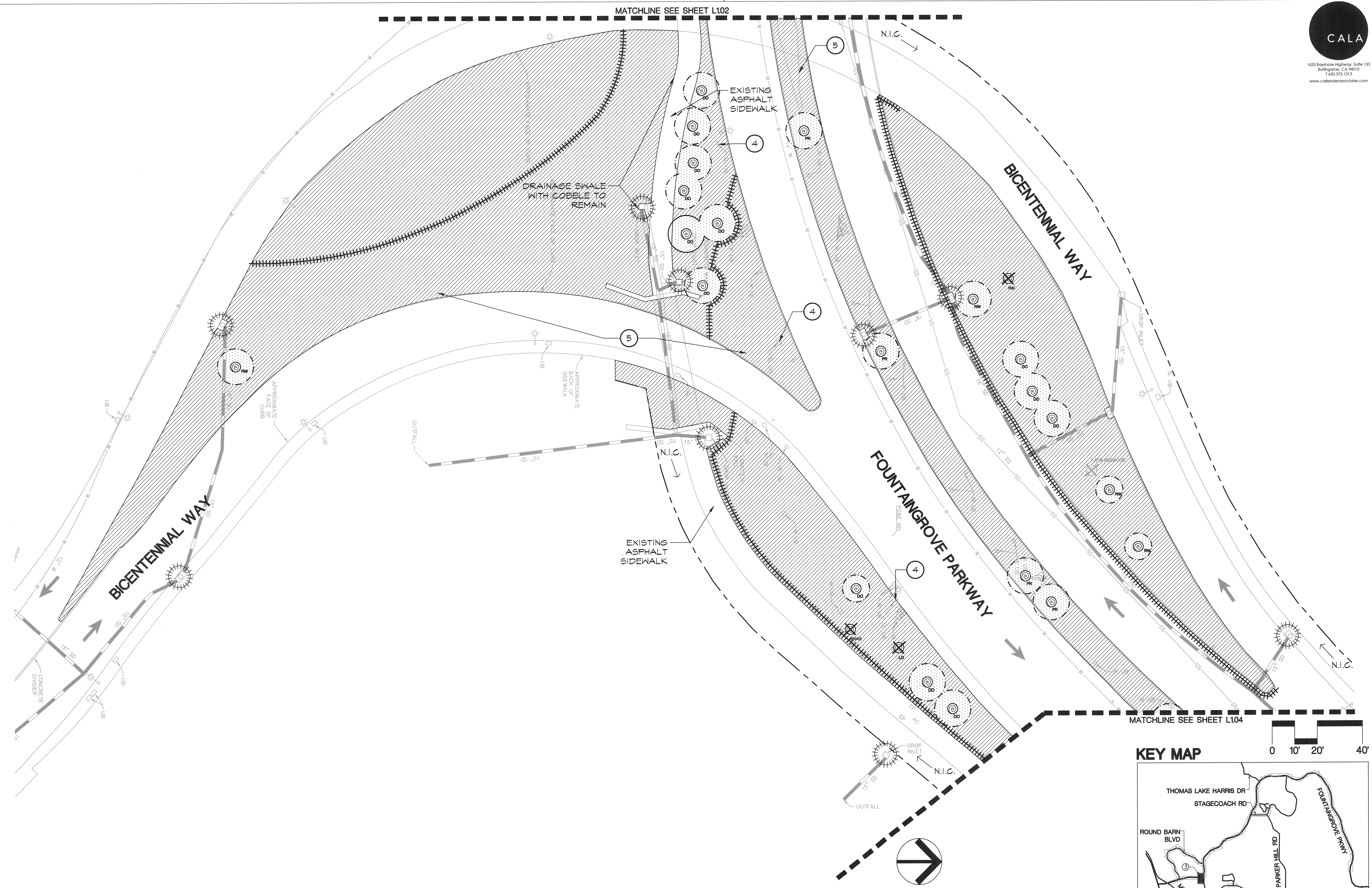
CITY OF SANTA ROSA
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DEMOLITION PLAN

CONTRACT NO. C02300
 SHEET 06 OF 139
 FILE NO. 2020-0011

L1.02

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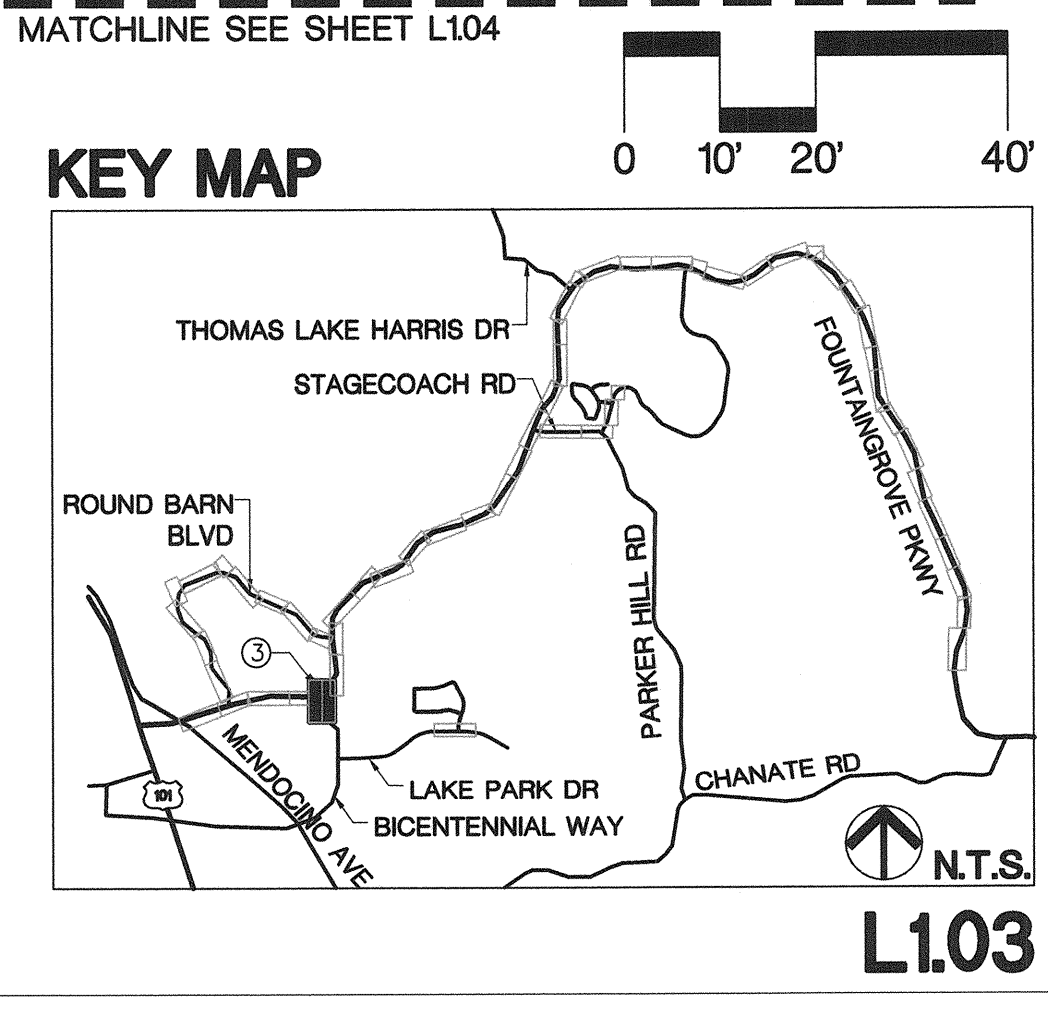
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City of
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CONTRACT NO. C02300
SHEET 07 OF 139
FILE NO. 2020-0011

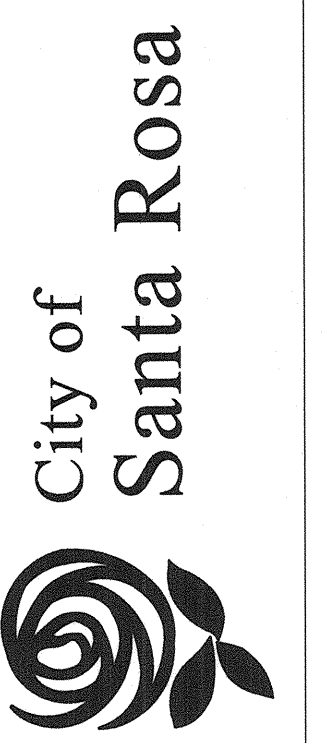
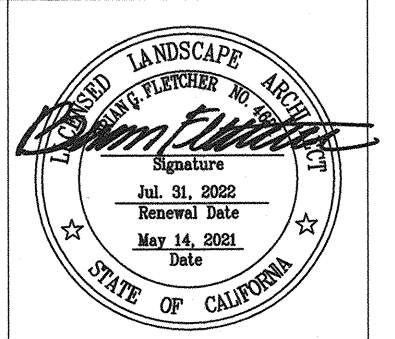


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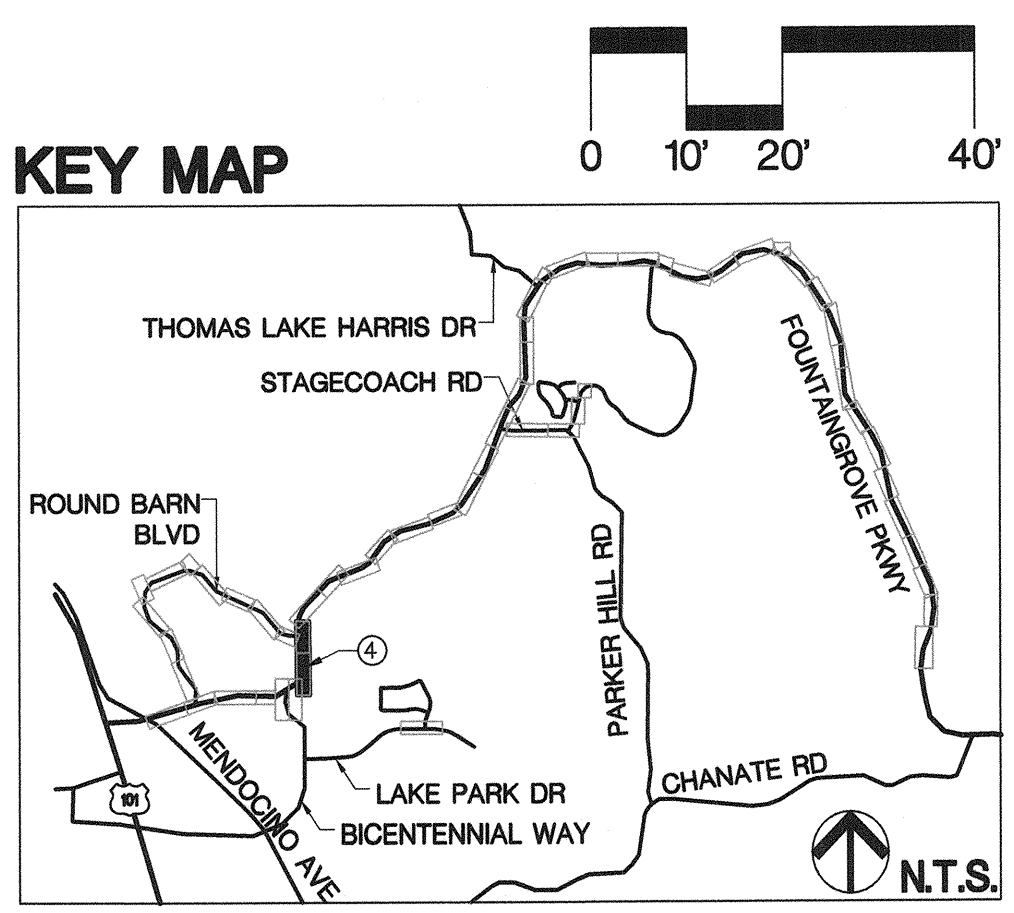
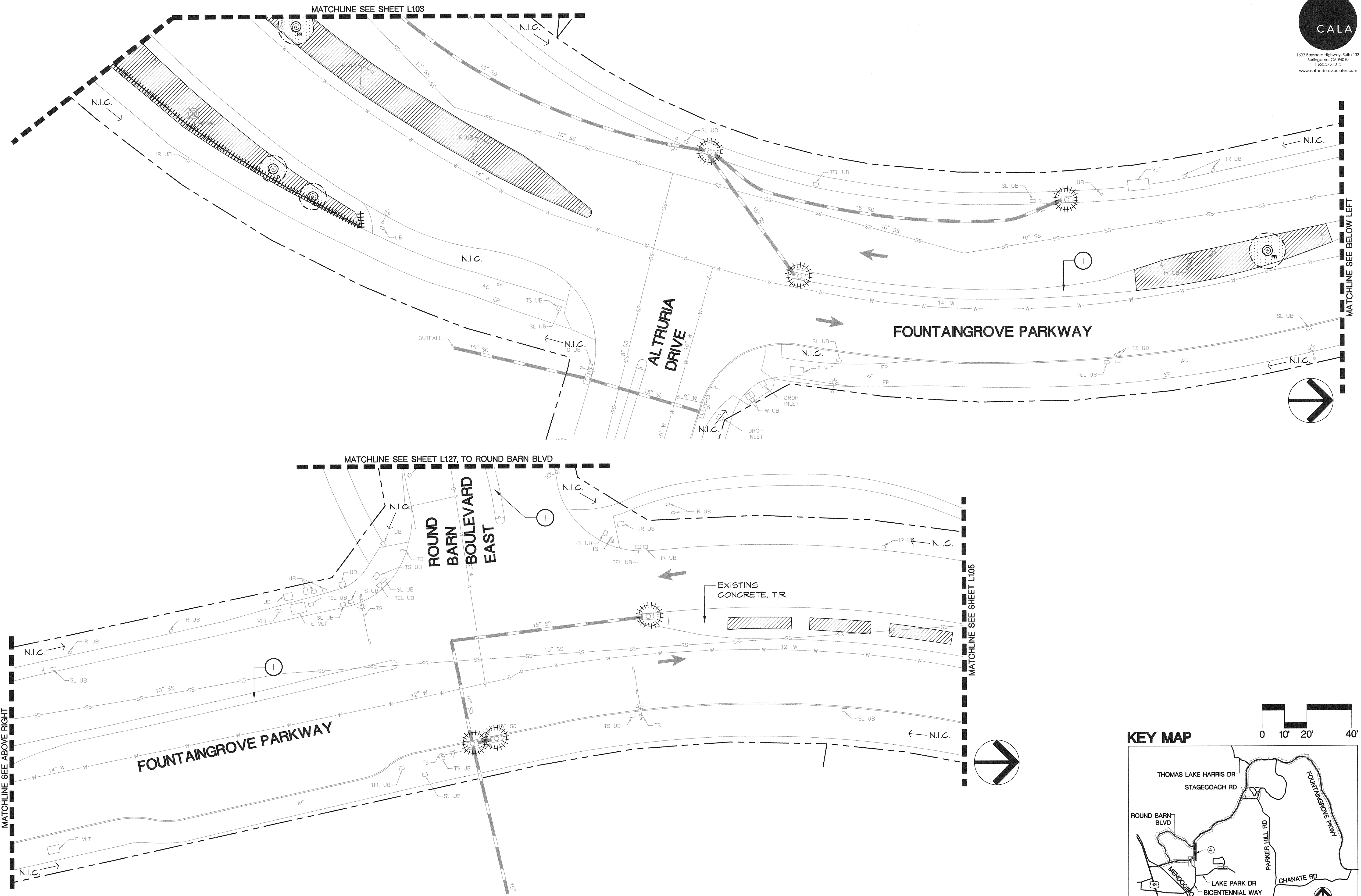
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CONTRACT NO. C02300	SHEET 08 OF 139	FILE NO. 2020-0011

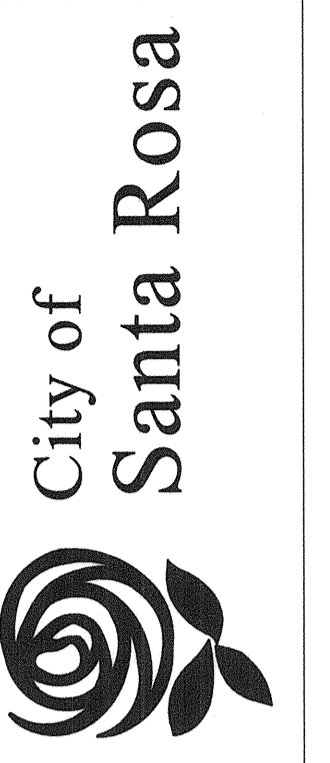
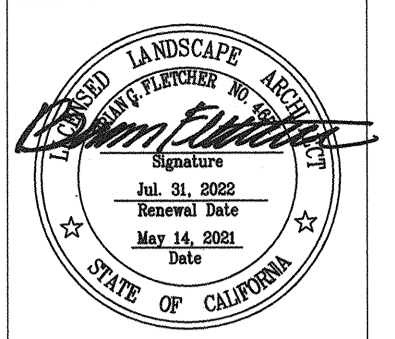


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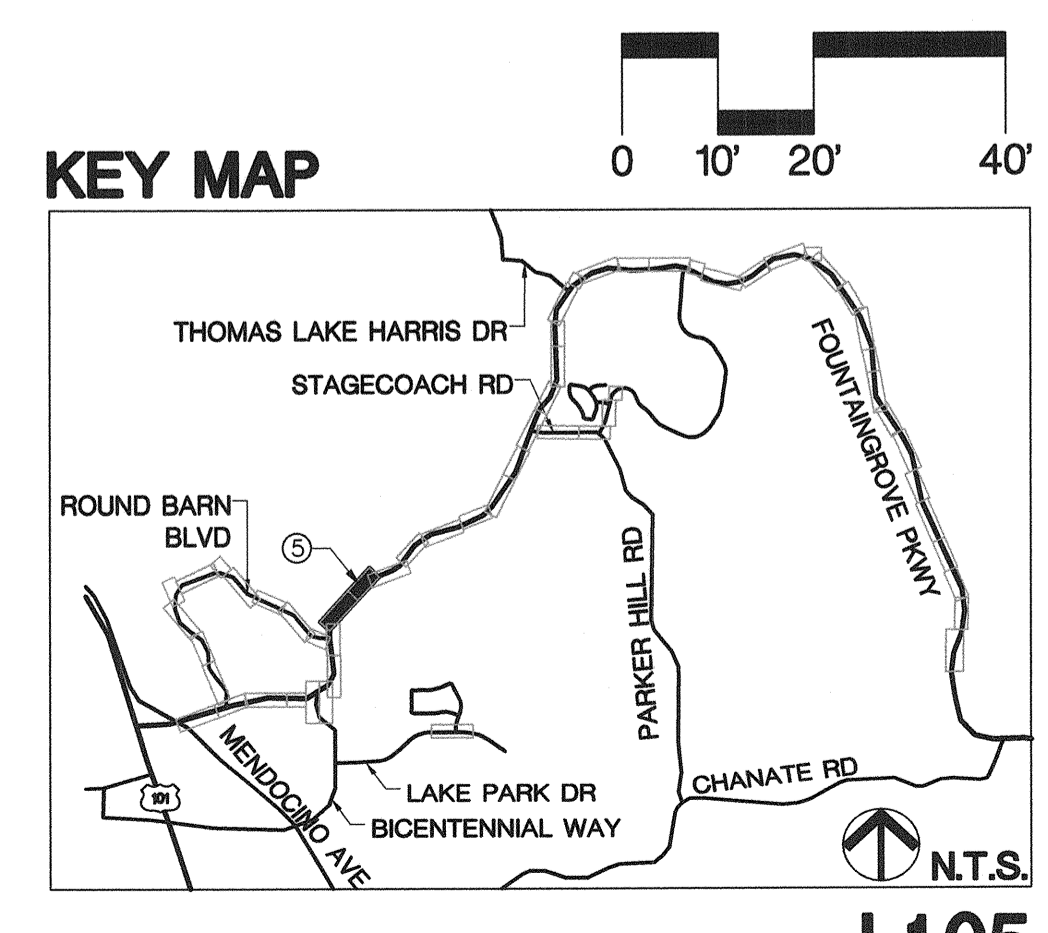
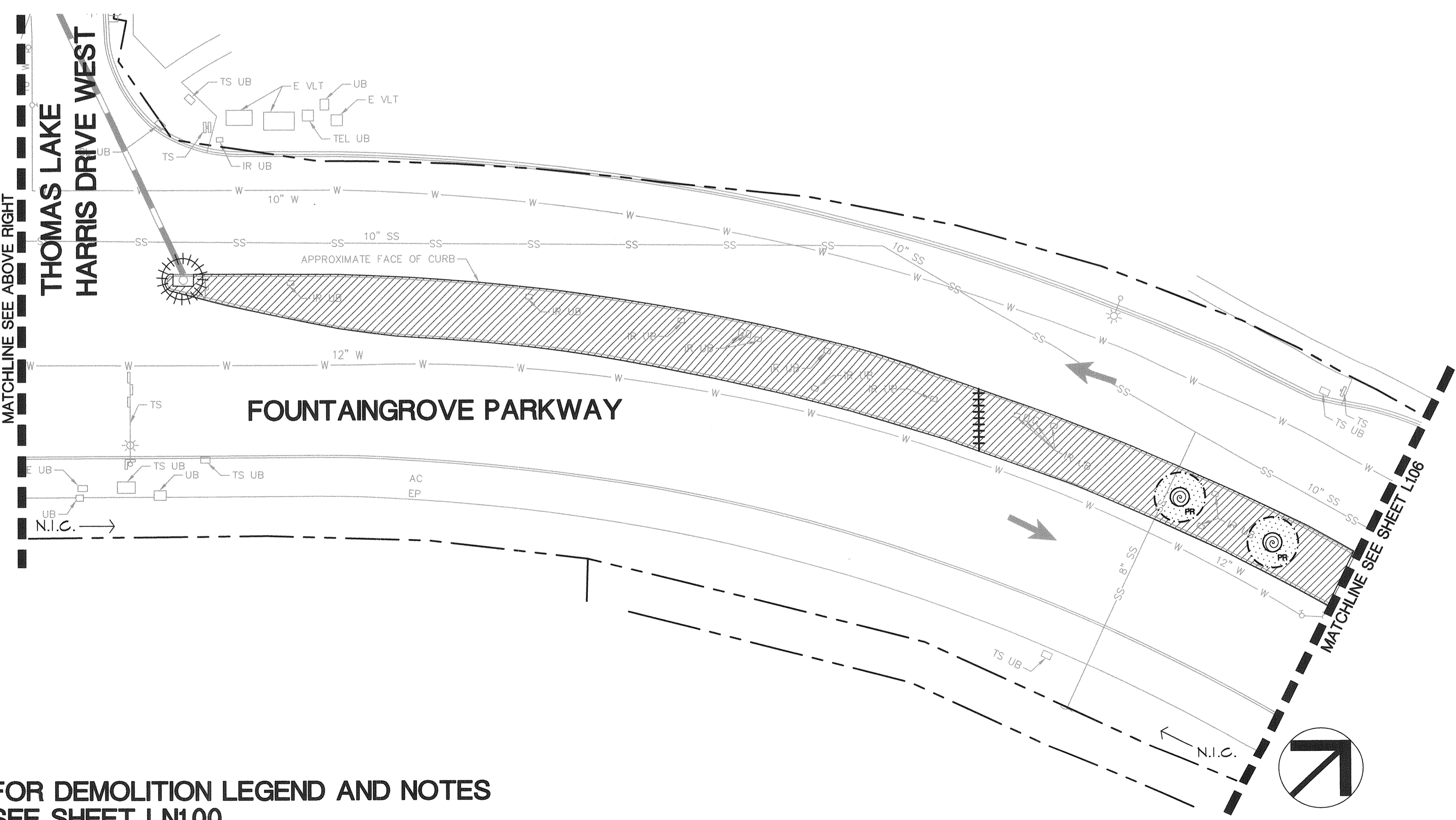
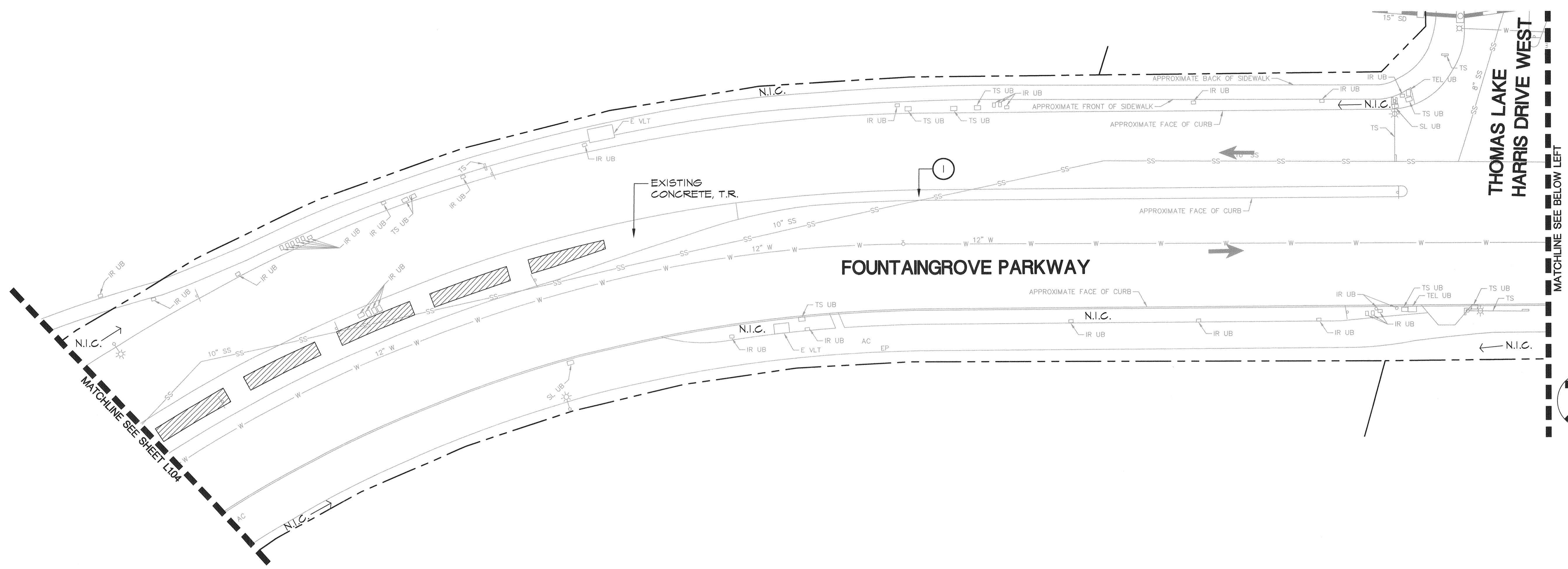
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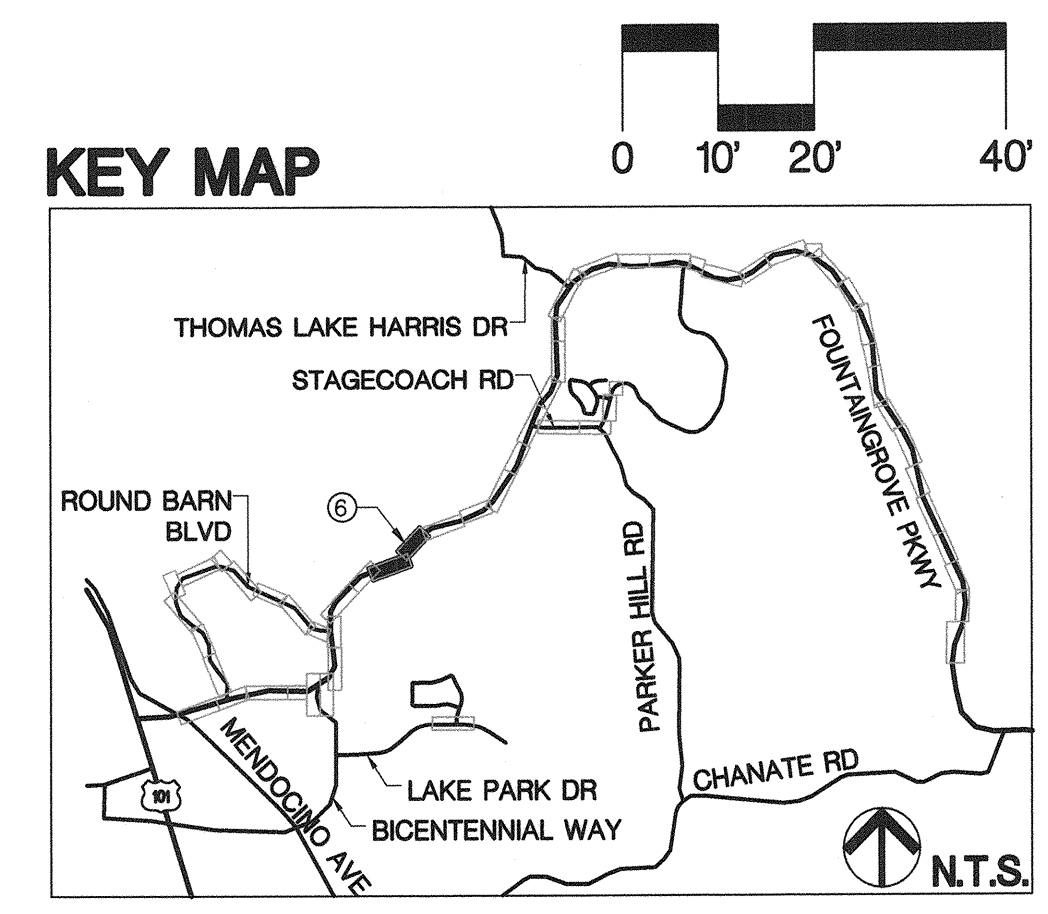
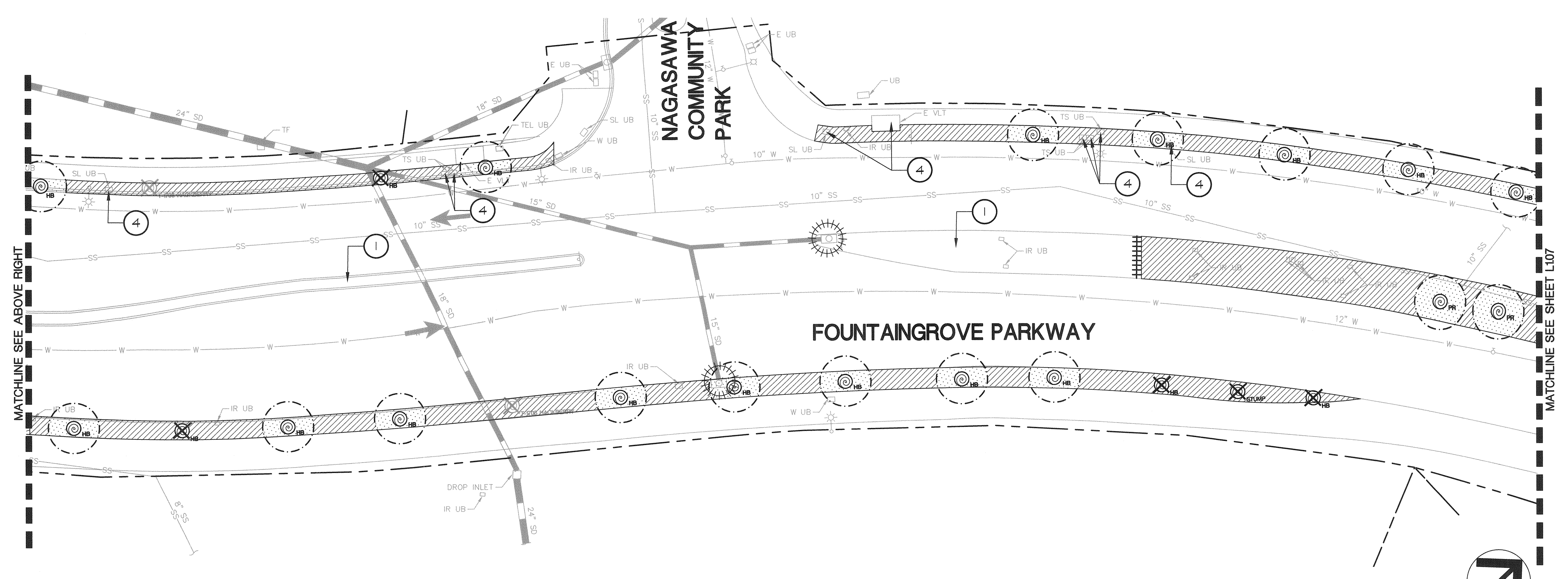
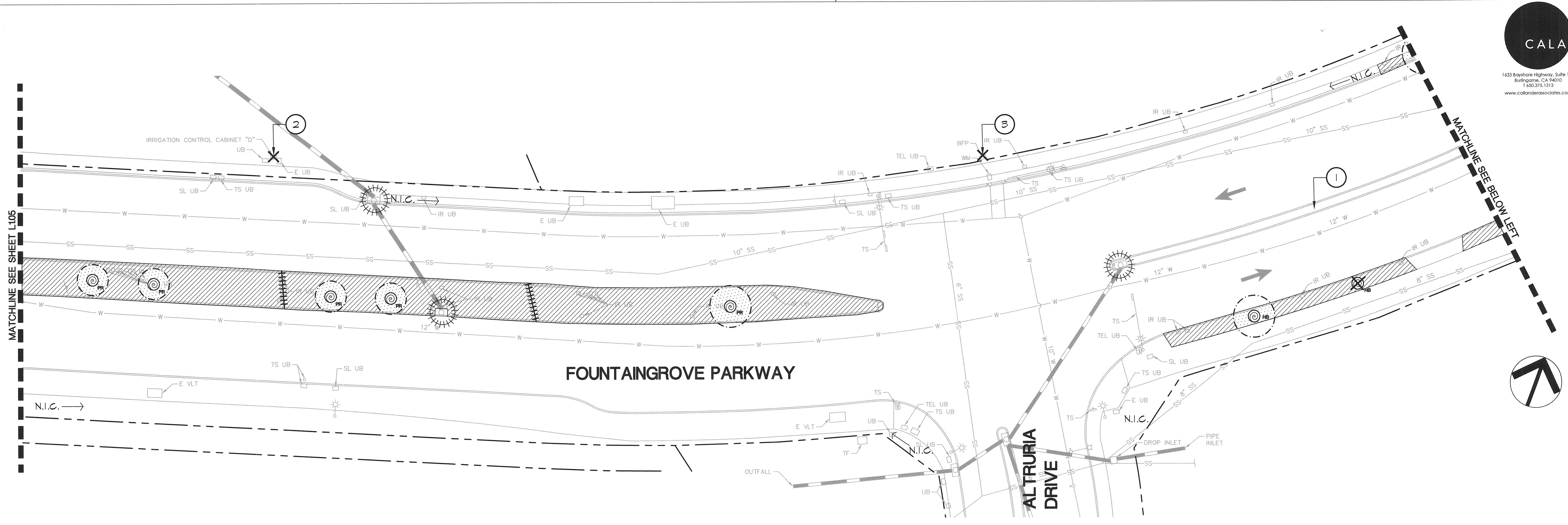
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CONTRACT NO. C02300
SHEET 09 OF 139
FILE NO. 2020-0011



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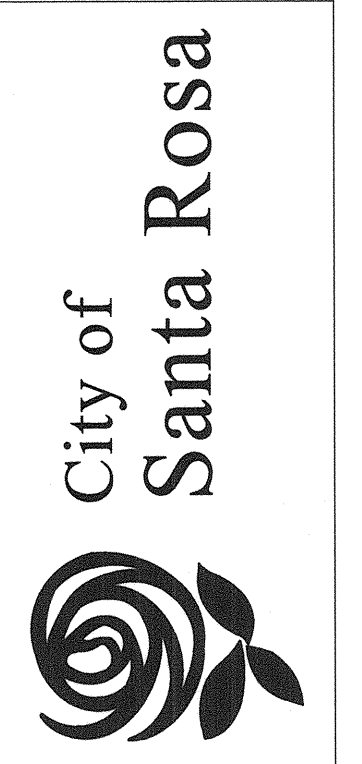
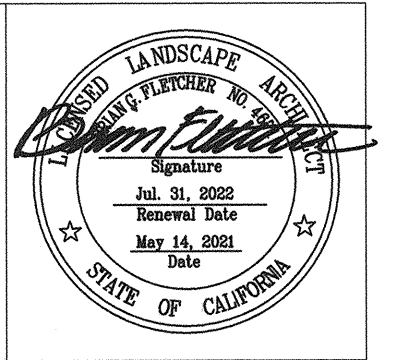
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 CONTRACT NO. C02300
 SHEET 10 OF 139
 FILE NO. 2020-0011

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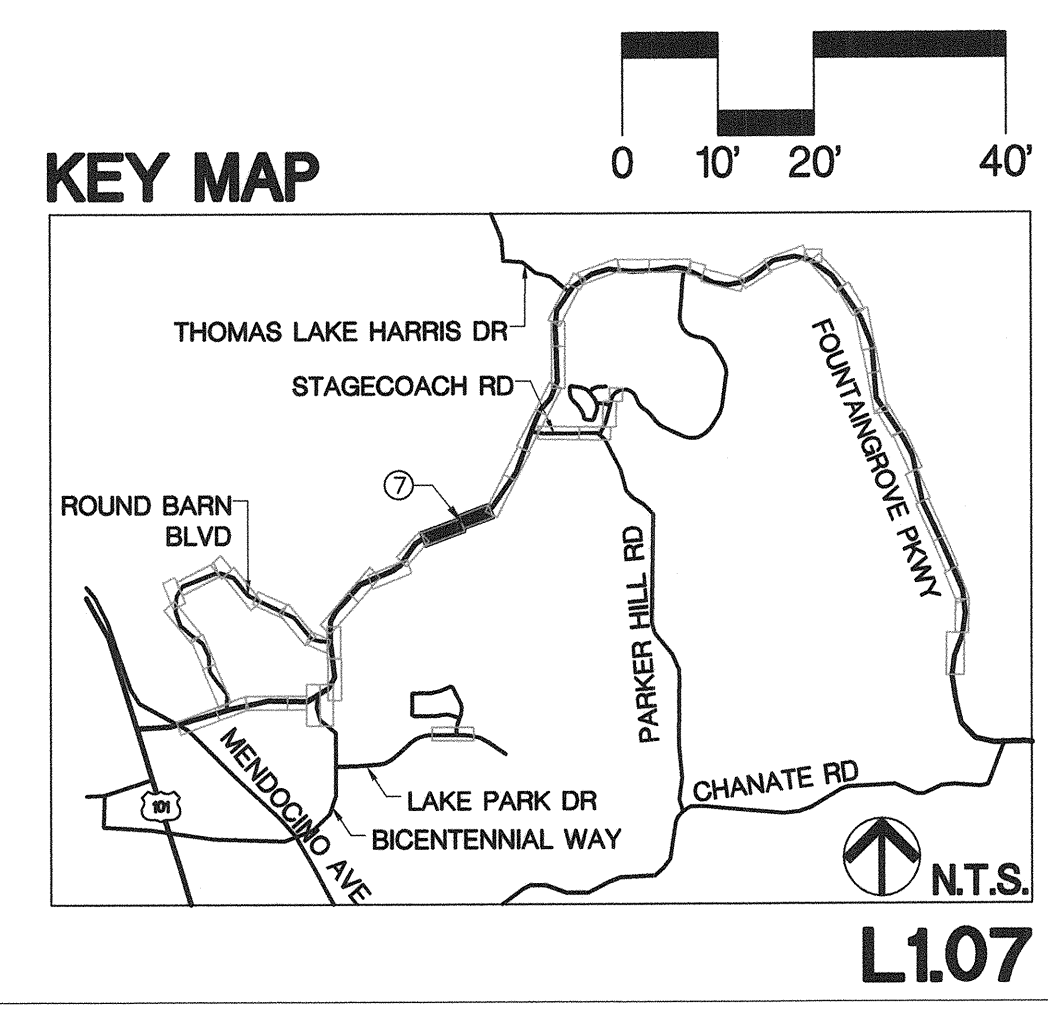
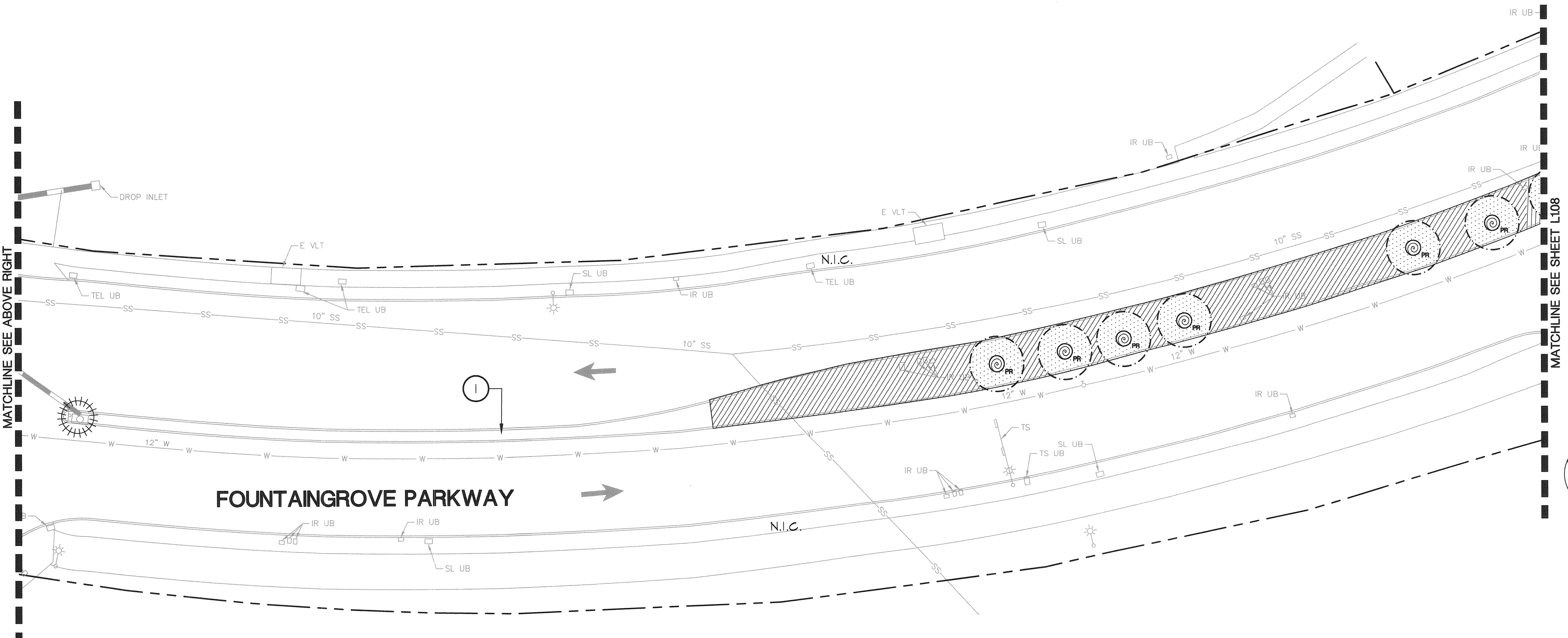
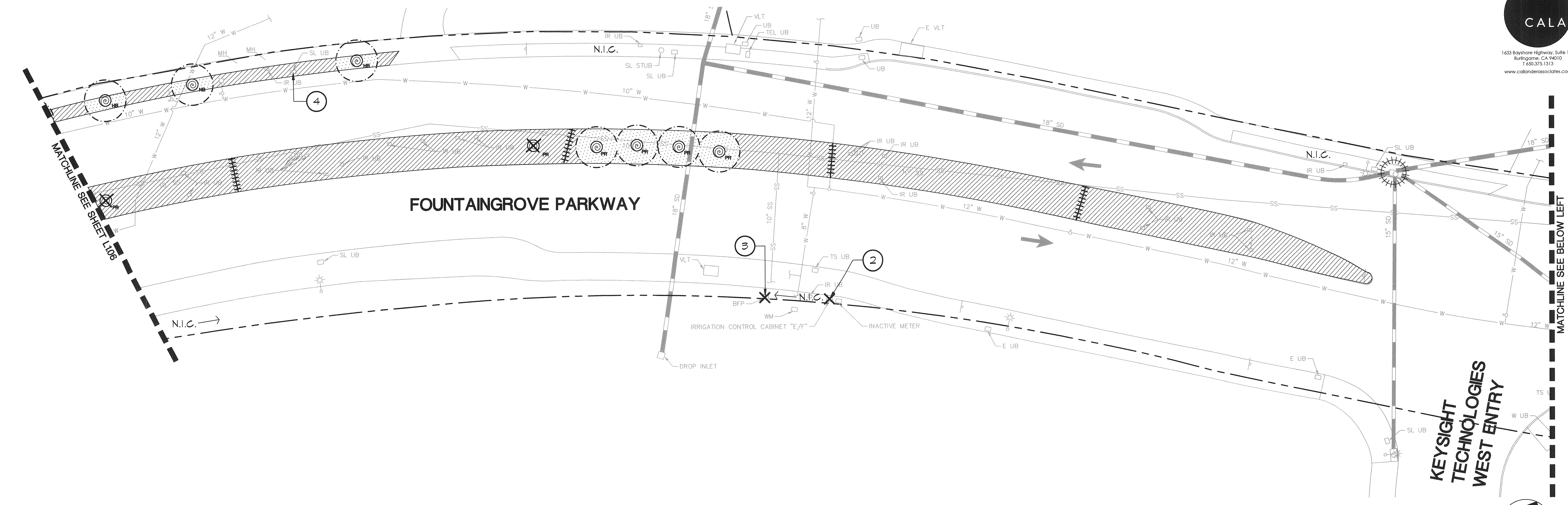
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FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 11 OF 139
DEMOLITION PLAN	FILE NO. 2020-0011



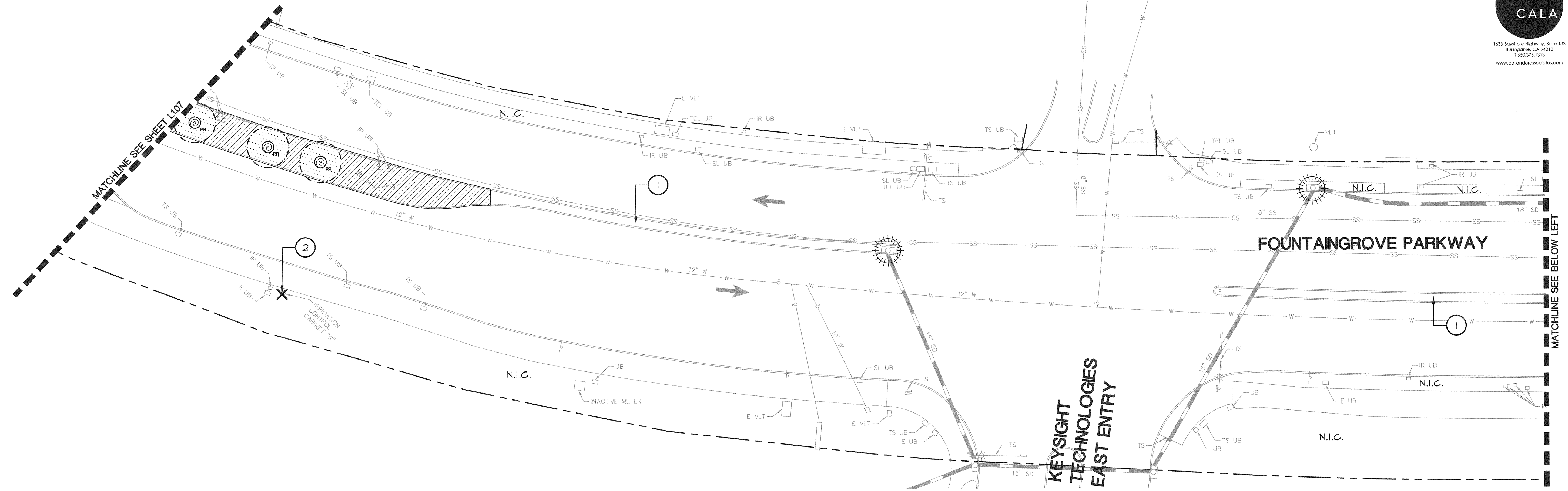
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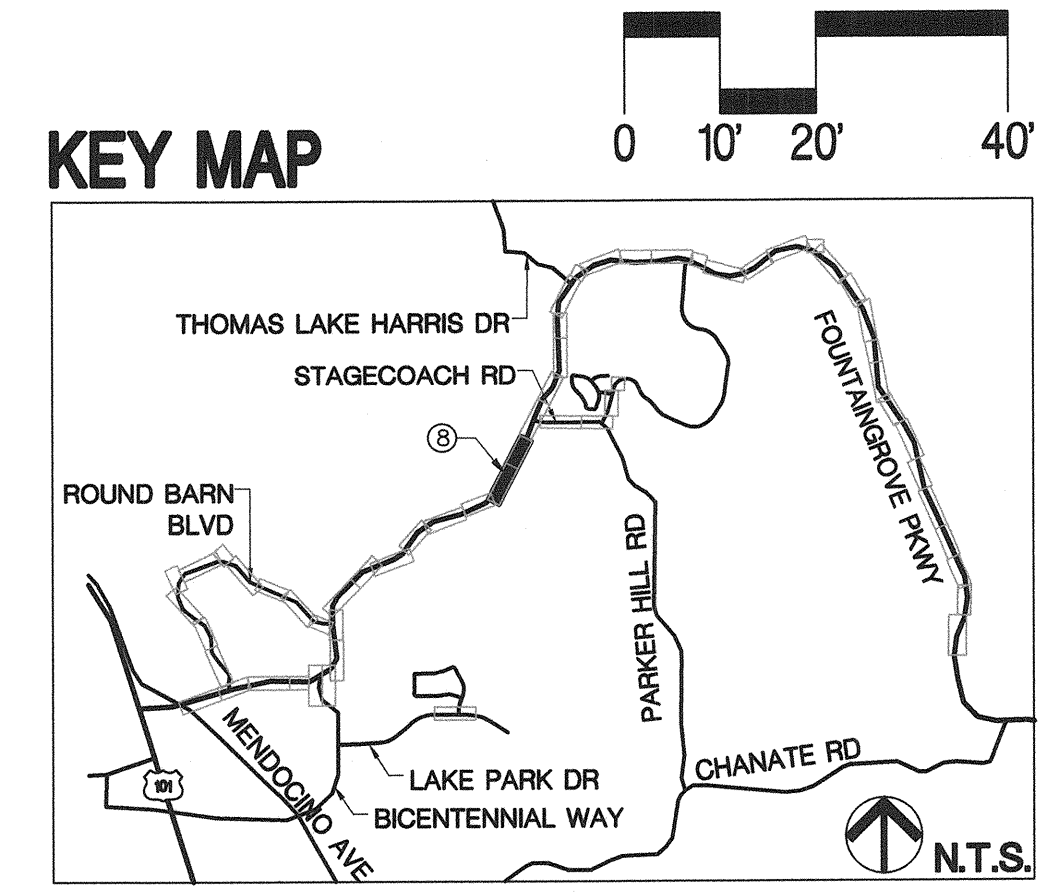
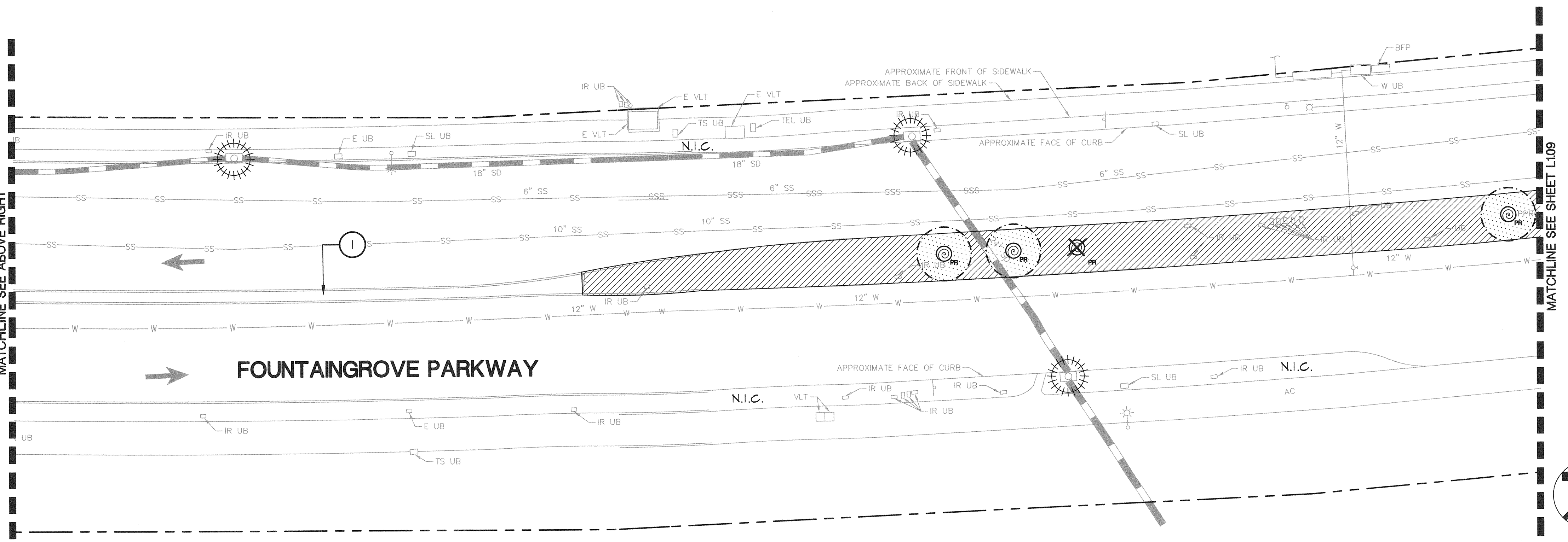
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FIRE DAMAGED ROADWAY LANDSCAPING	
CONTRACT NO. C02300	
SHEET 12 OF 139	FILE NO. 2020-0011



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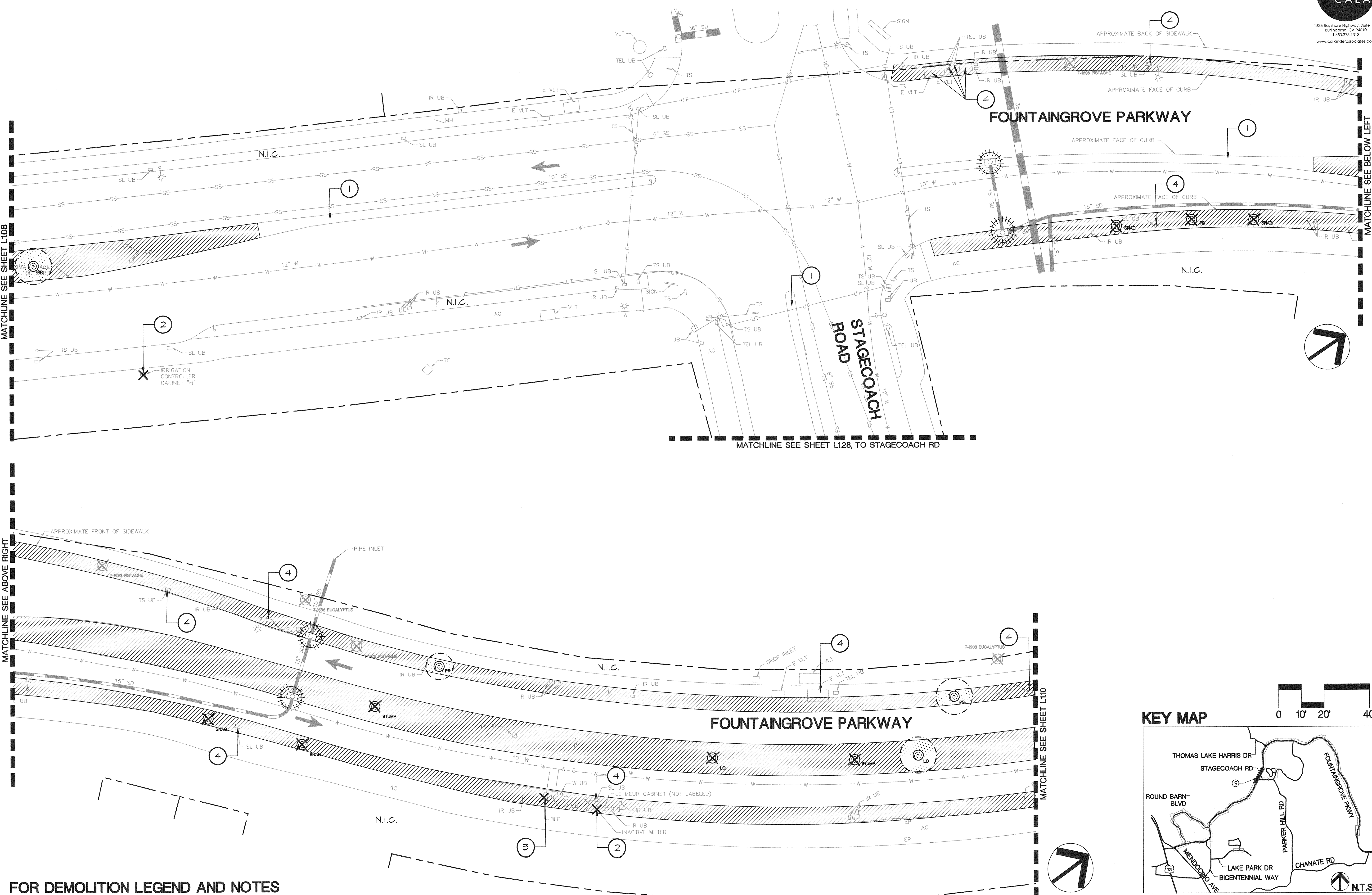


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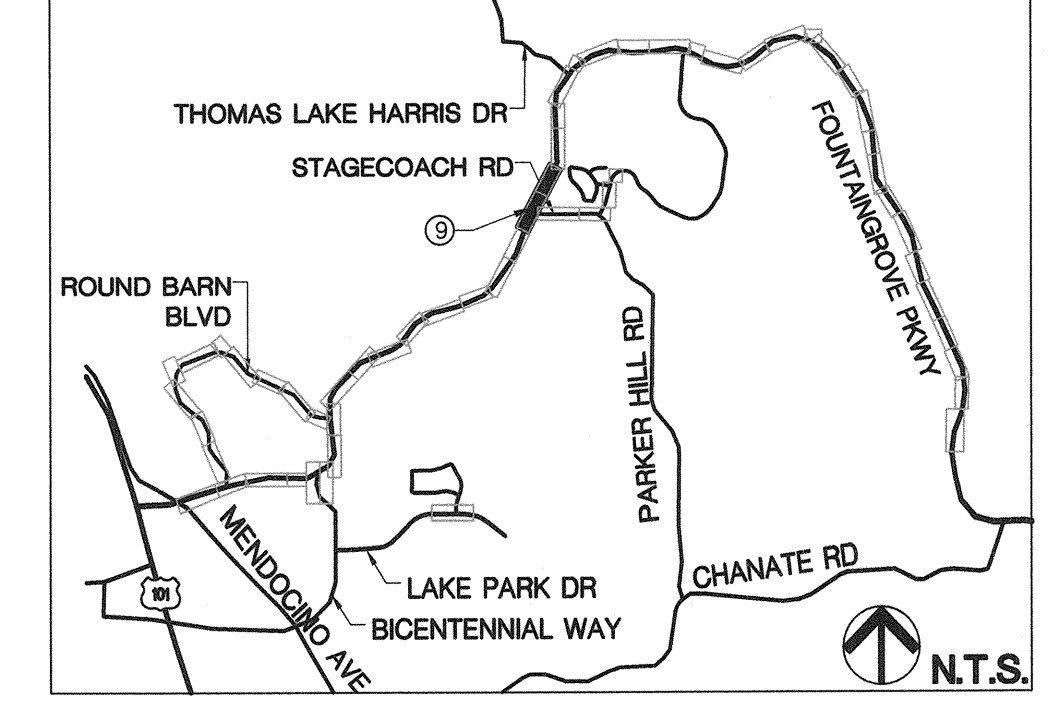
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FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 13 OF 139
DEMOLITION PLAN	FILE NO. 2020-0011



KEY MAP



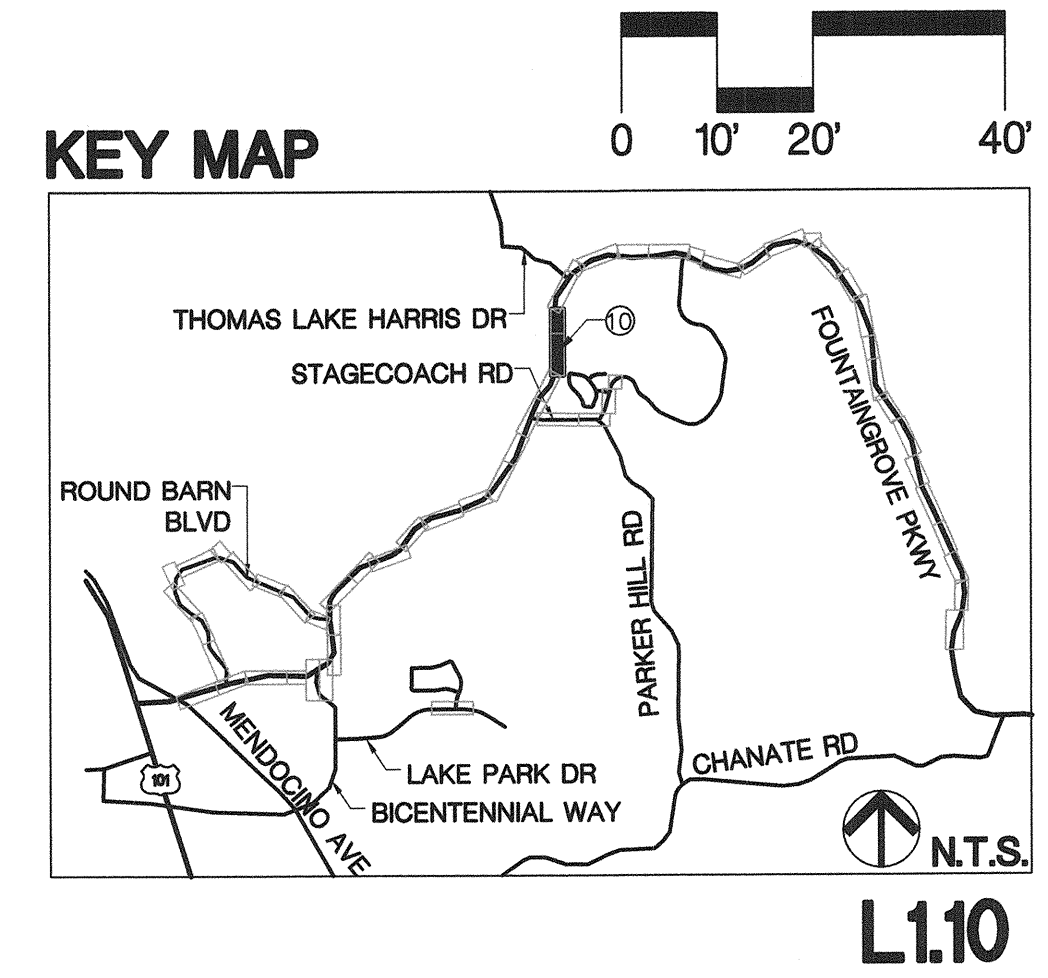
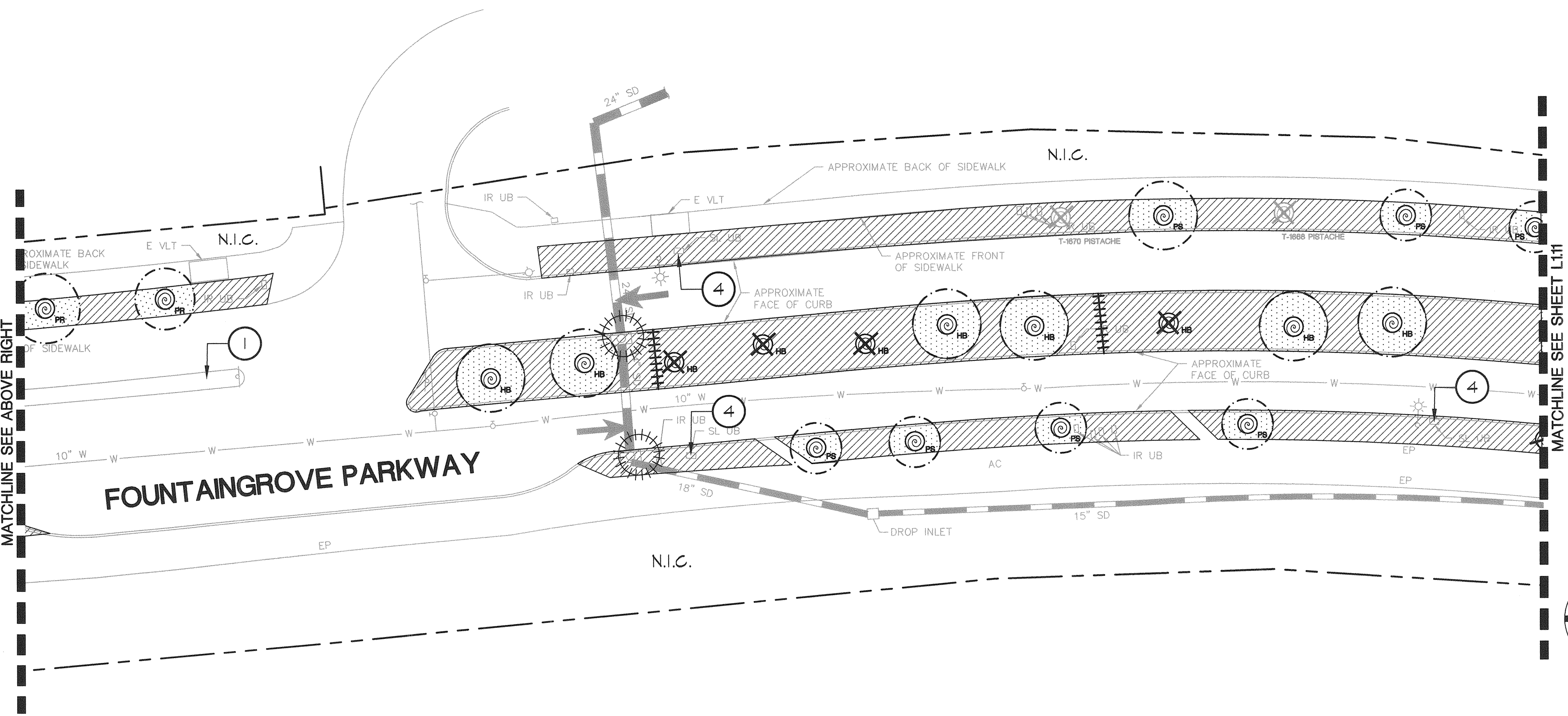
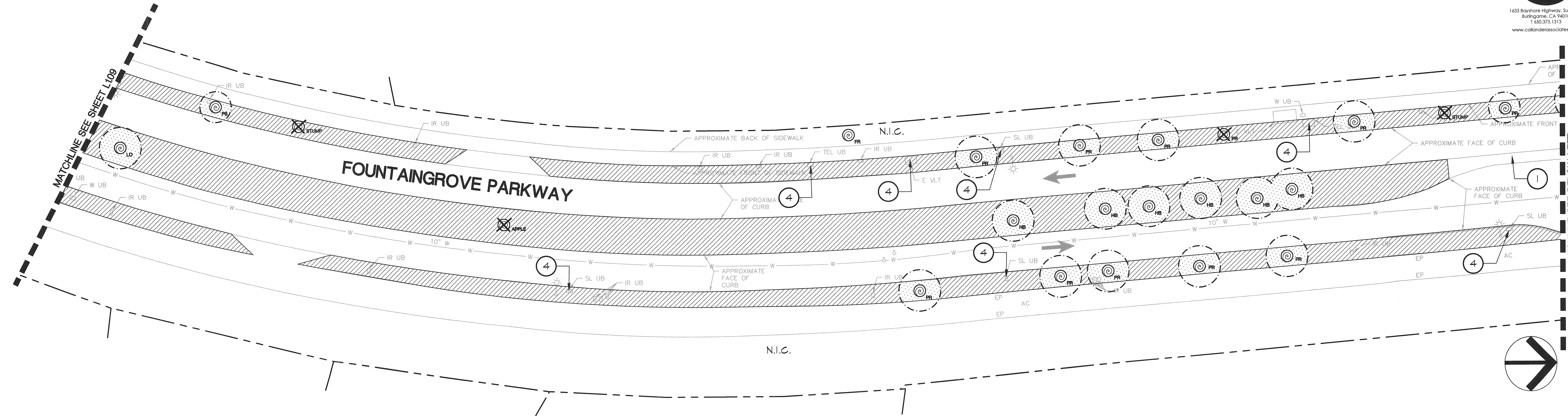
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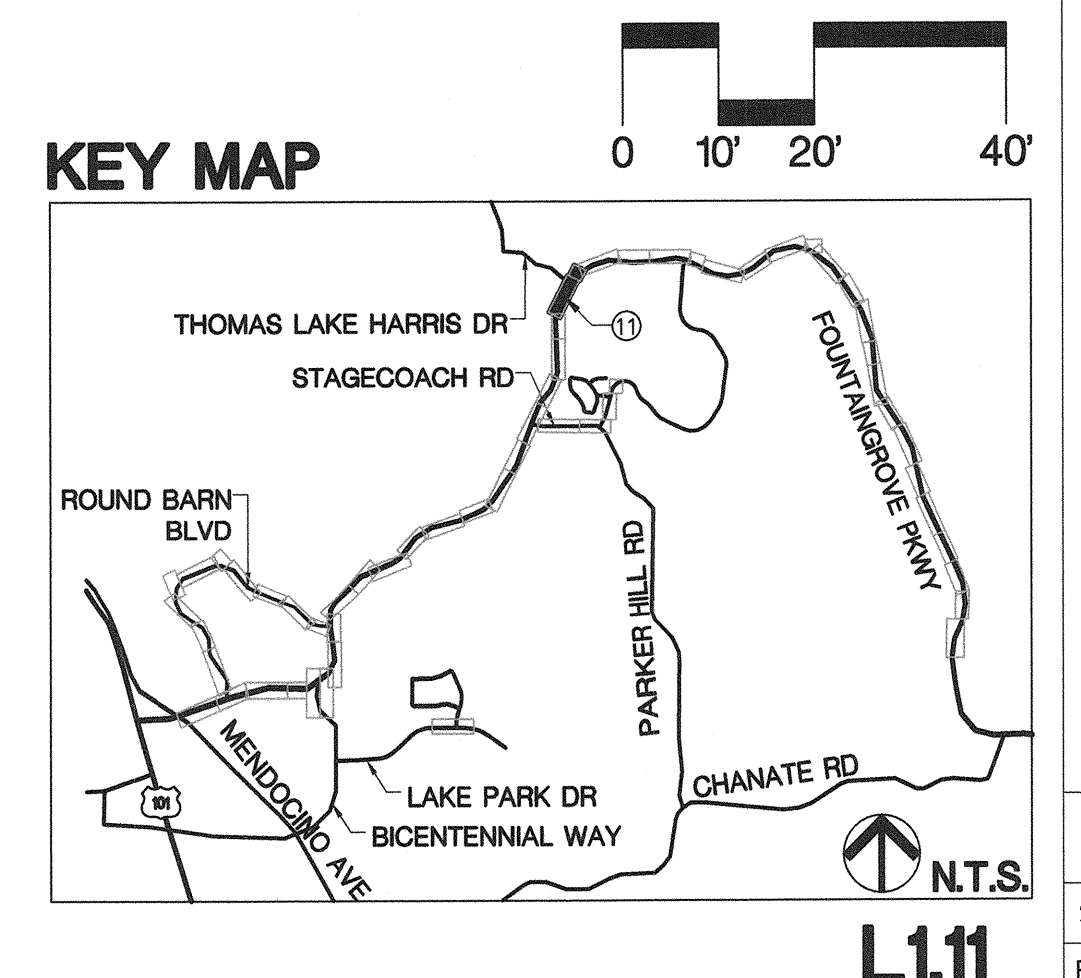
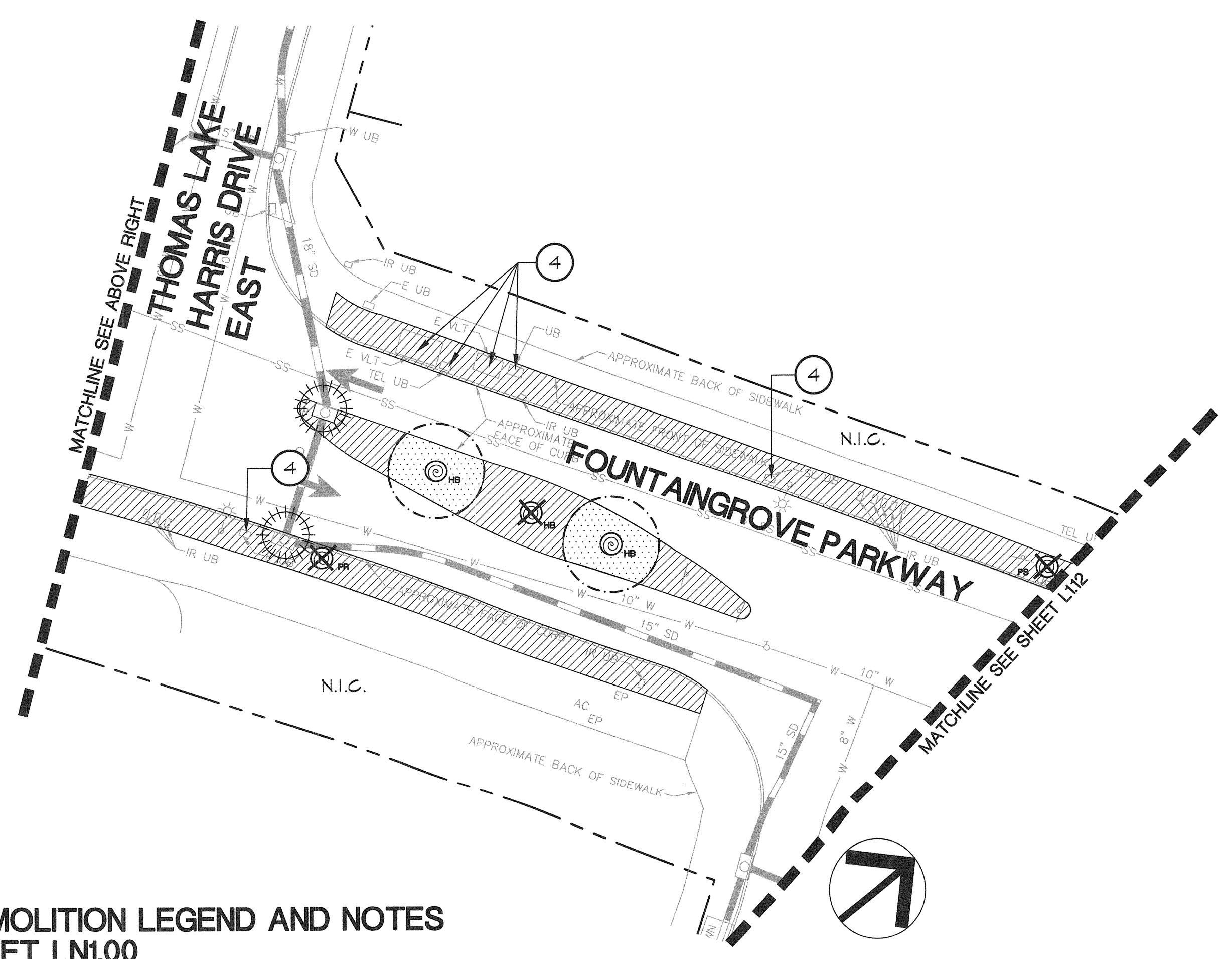
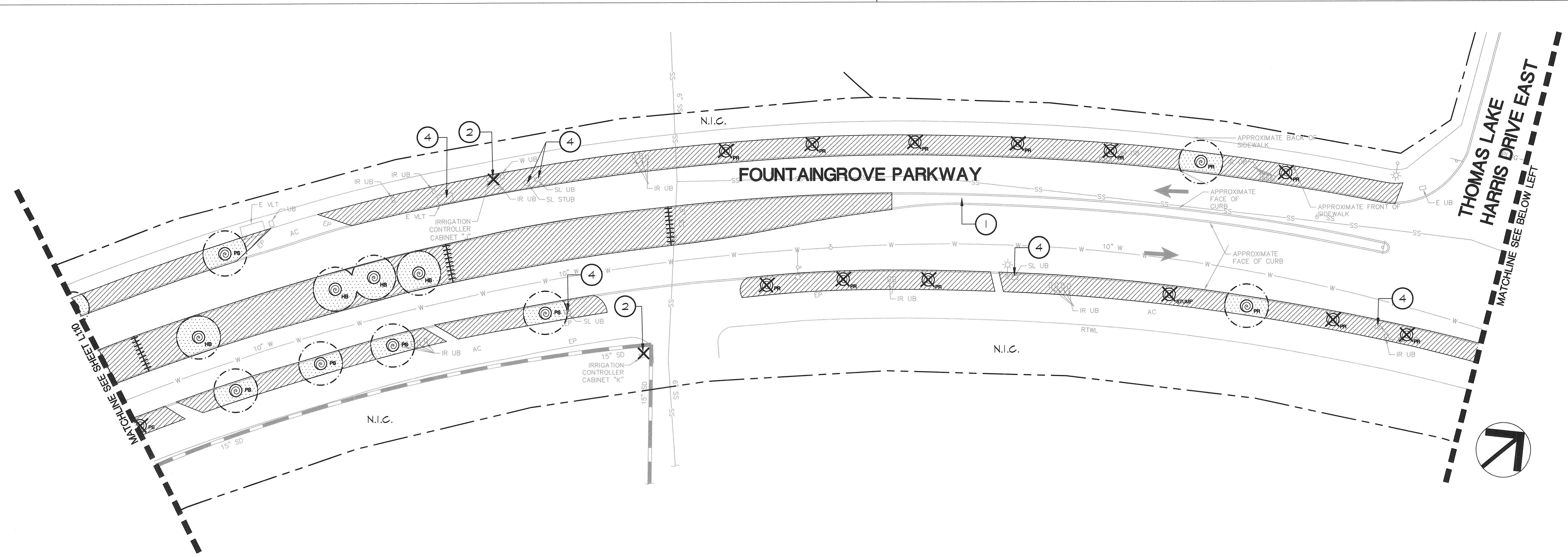
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DEMOLITION PLAN	FILE NO. 2020-0011



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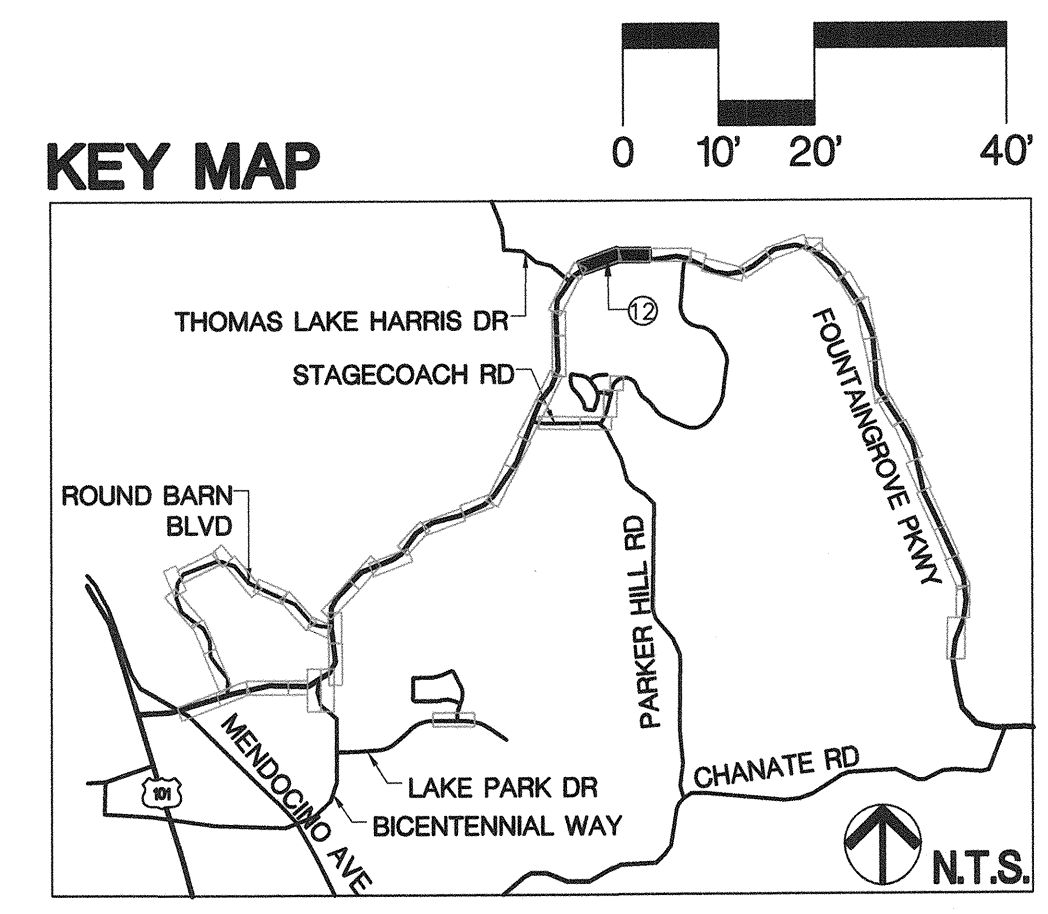
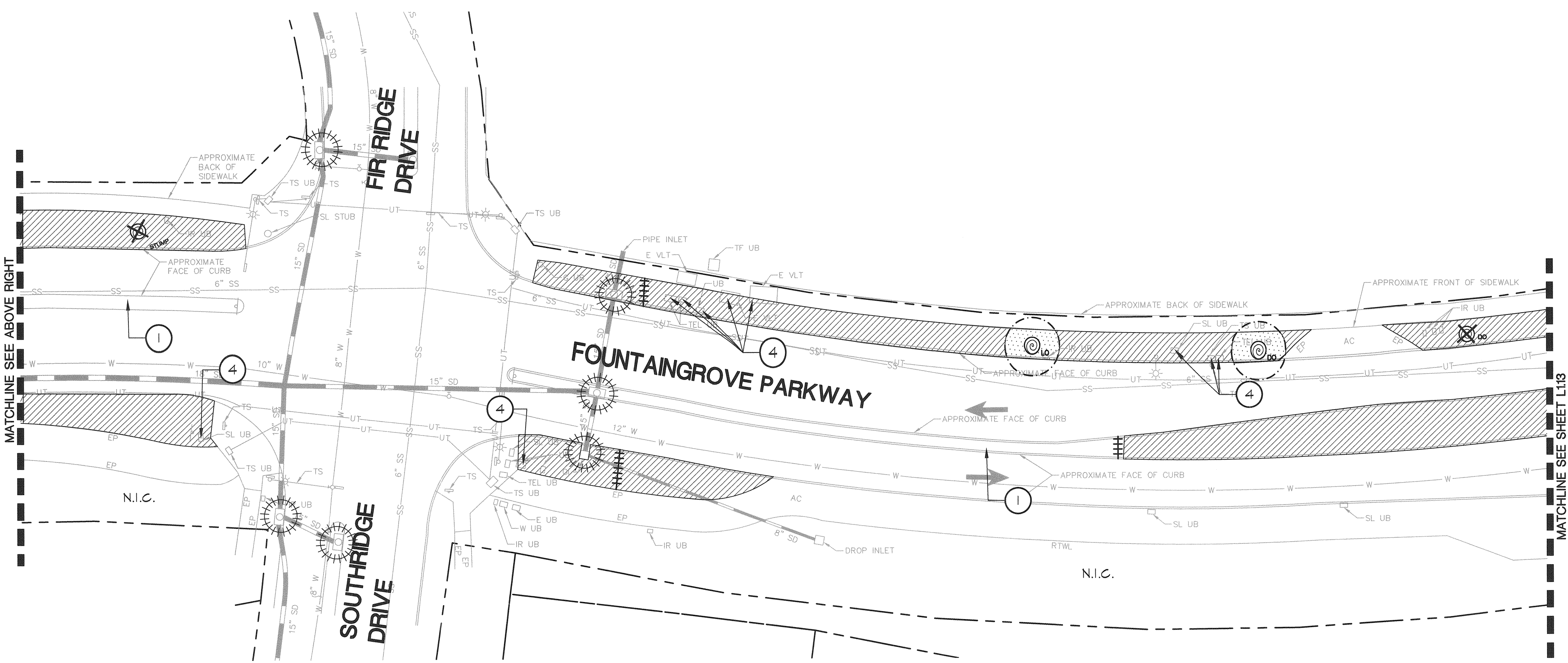
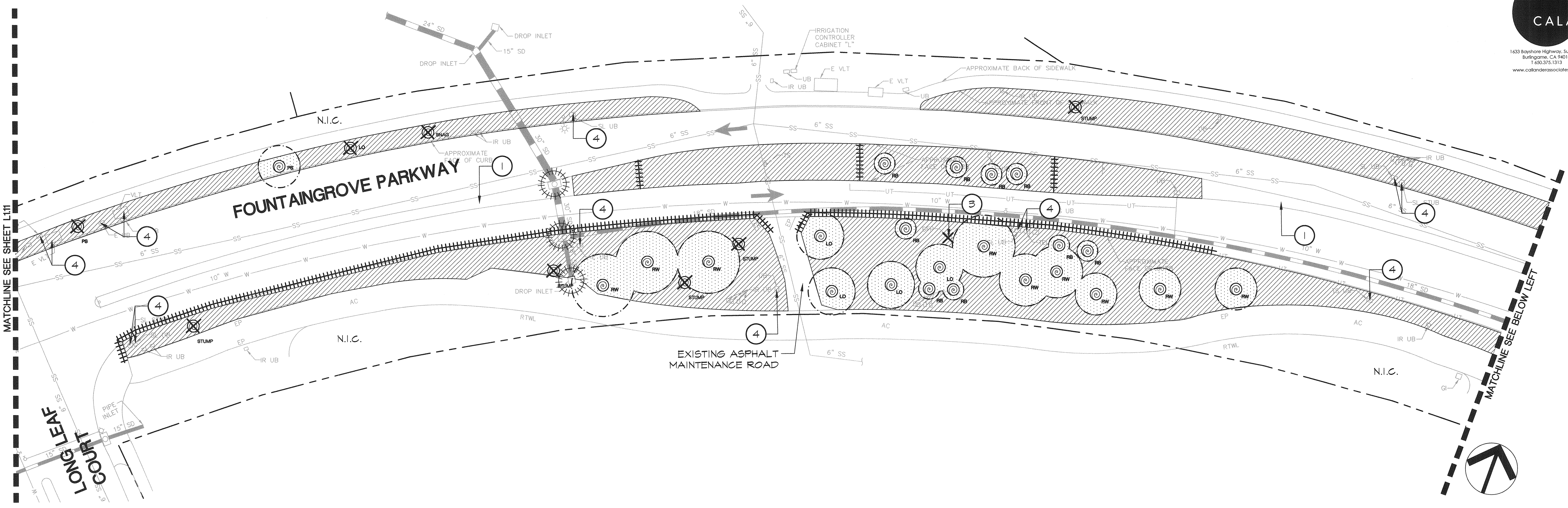
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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
DEMOLITION PLAN
 CONTRACT NO. C02300
 SHEET 15 OF 139
 FILE NO. 2020-0011

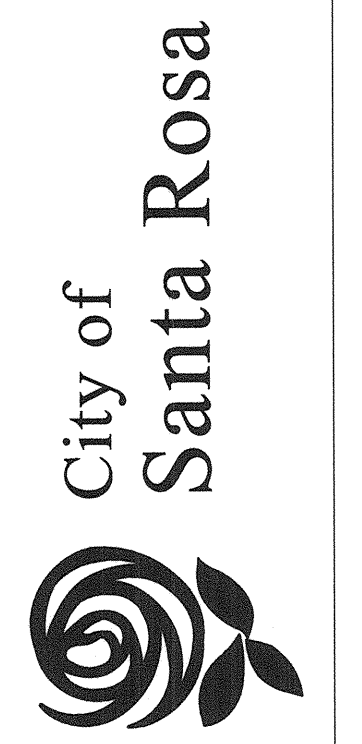
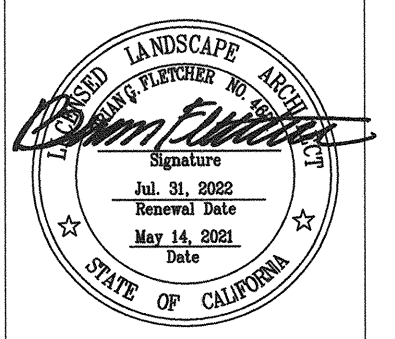
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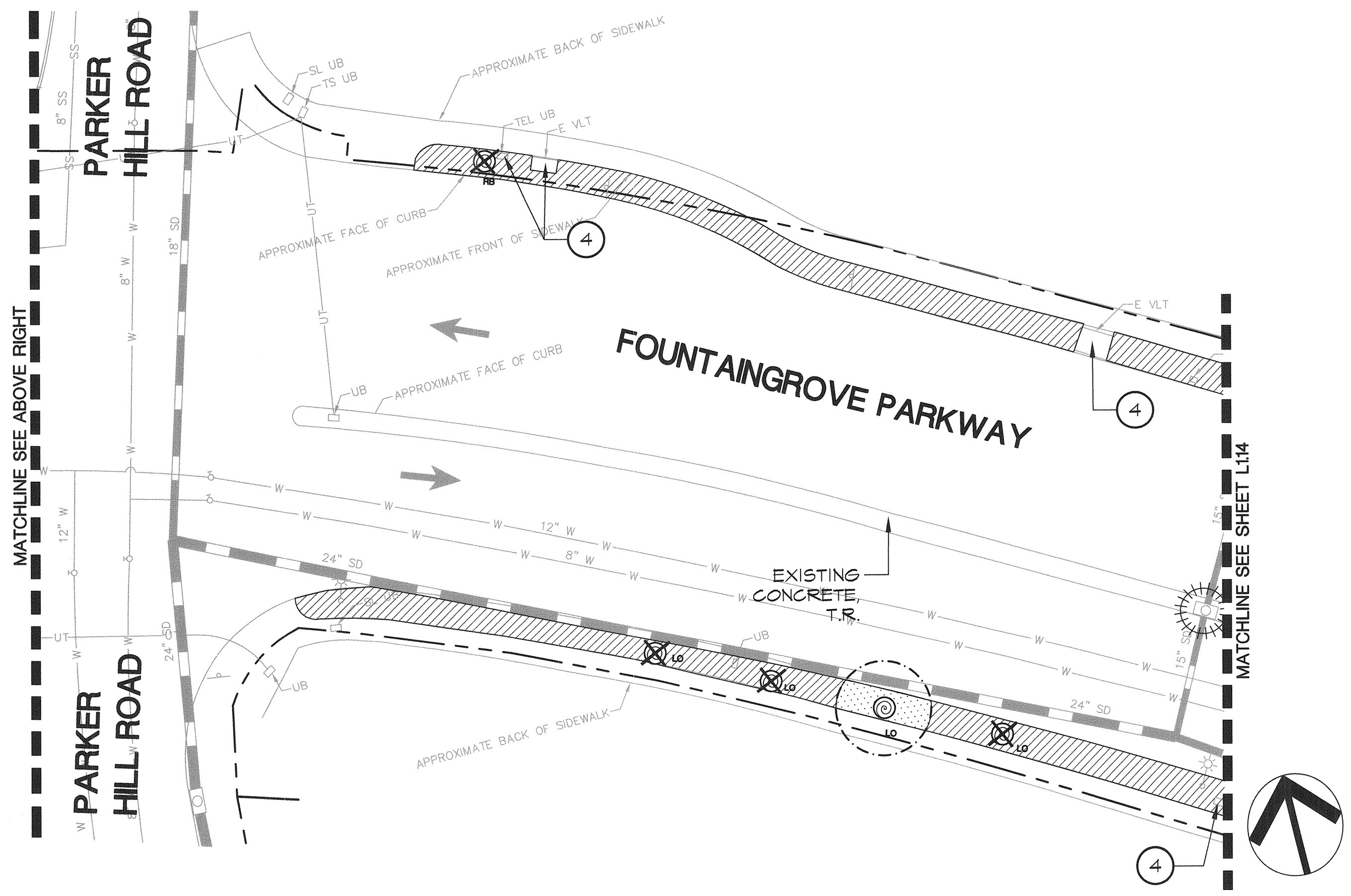
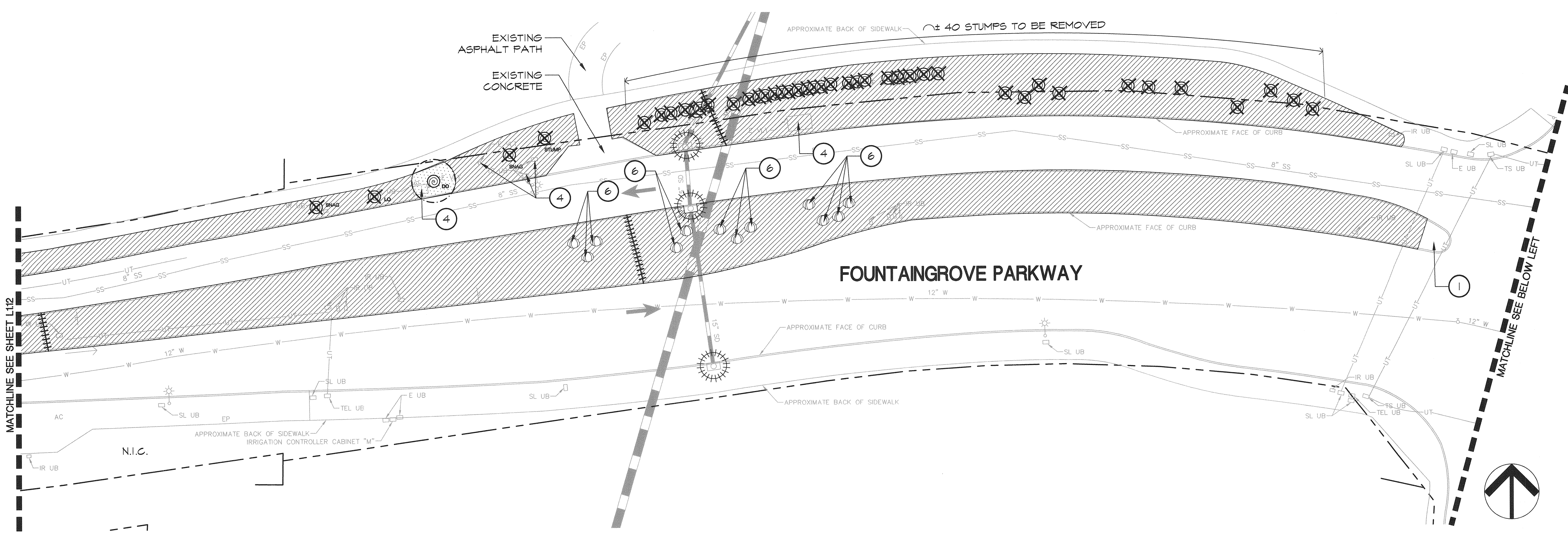
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
DEMOLITION PLAN
 CONTRACT NO. C02300
 SHEET 16 OF 139
 FILE NO. 2020-0011

L1.12

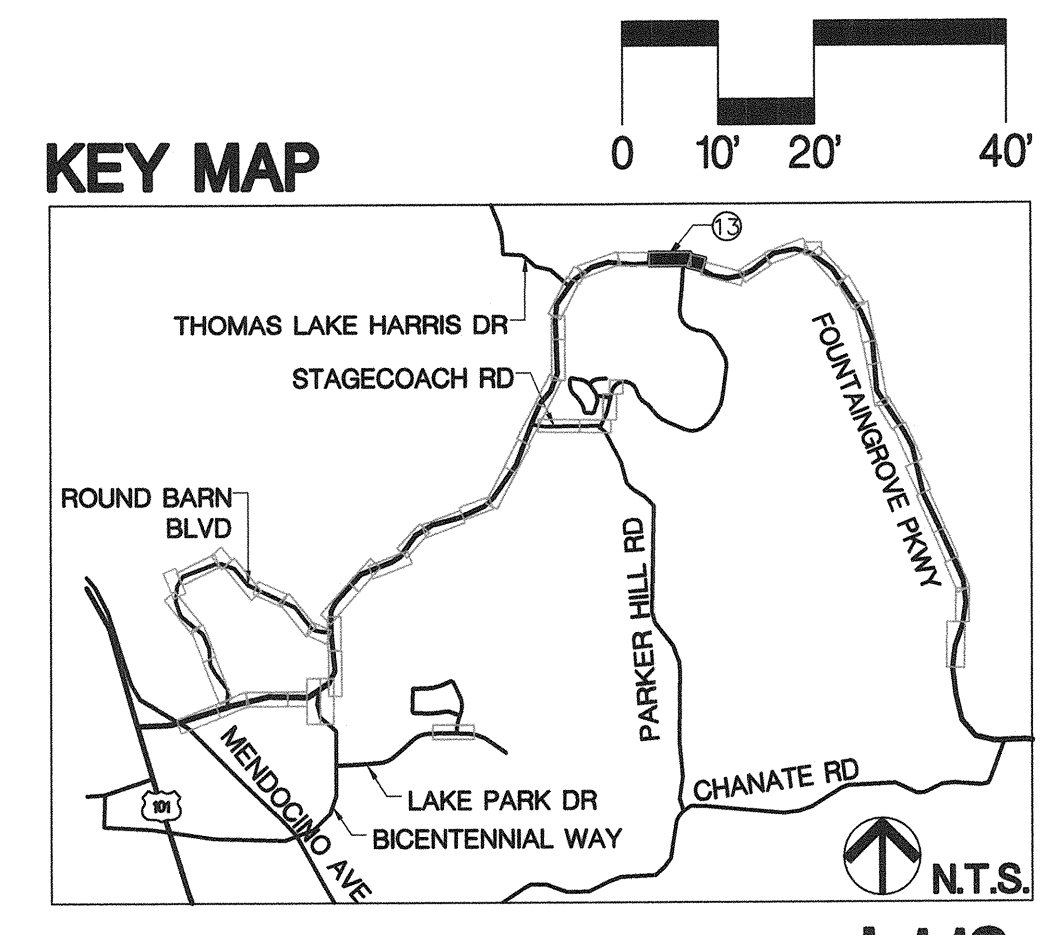
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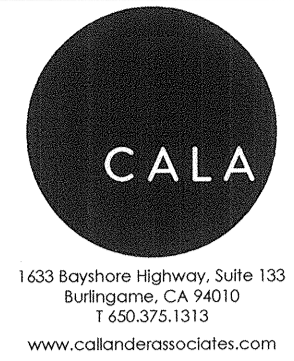
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DEMOLITION PLAN	
CONTRACT NO. C02300	SHEET 17 OF 139
L113	
FILE NO. 2020-0011	



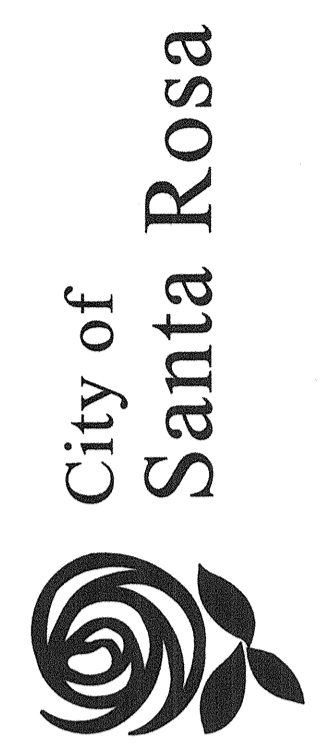
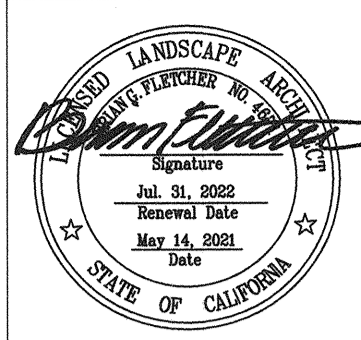
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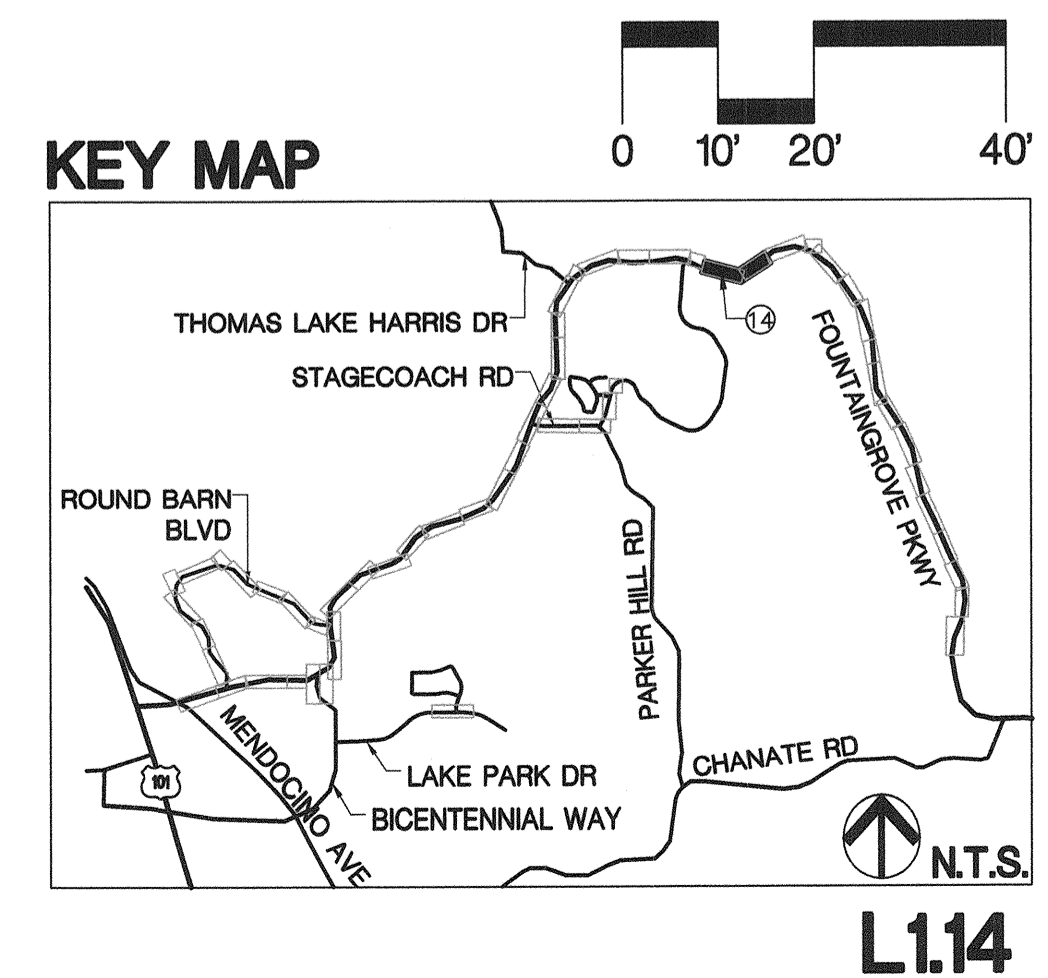
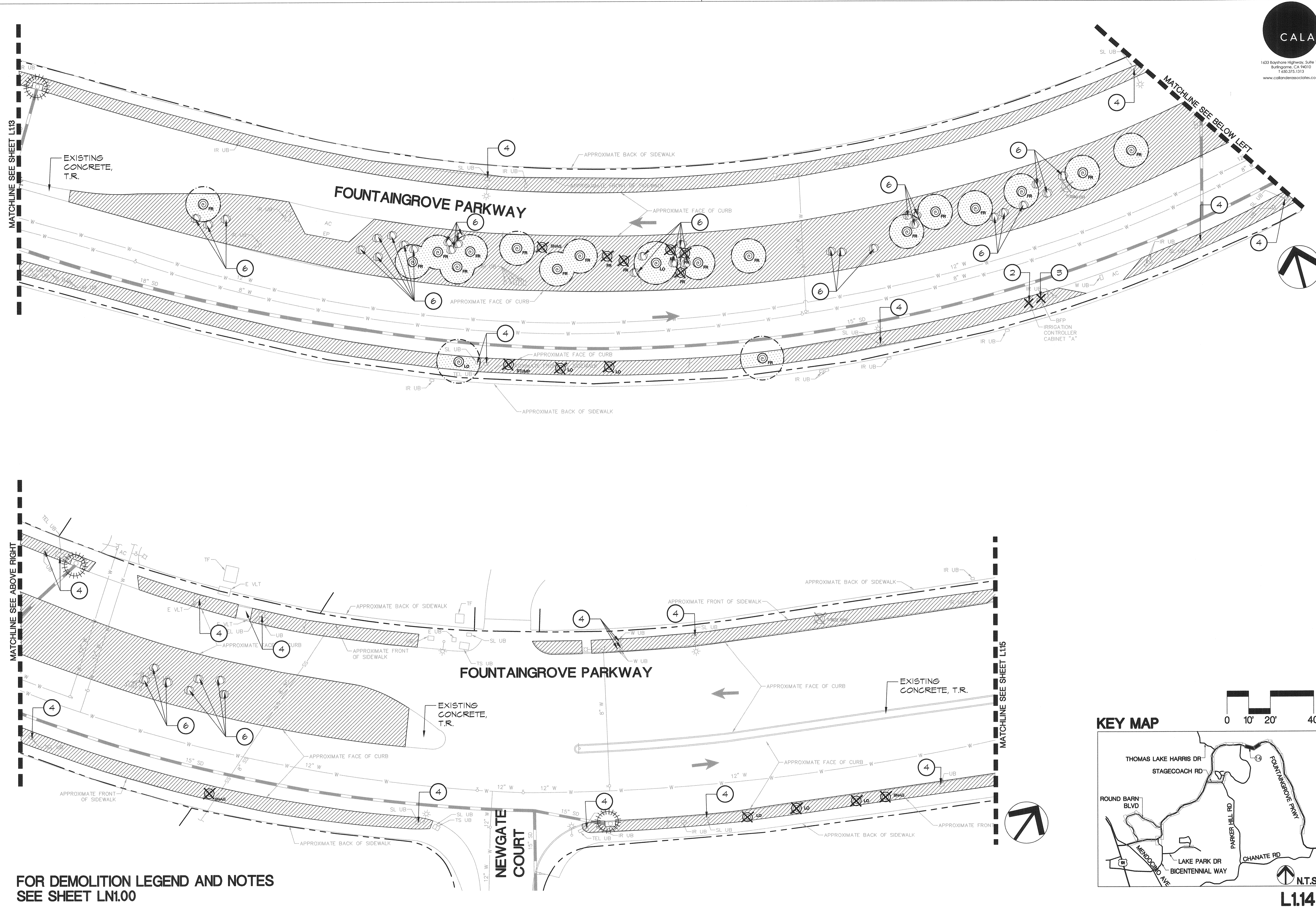
1633 Bayshore Highway, Suite 133
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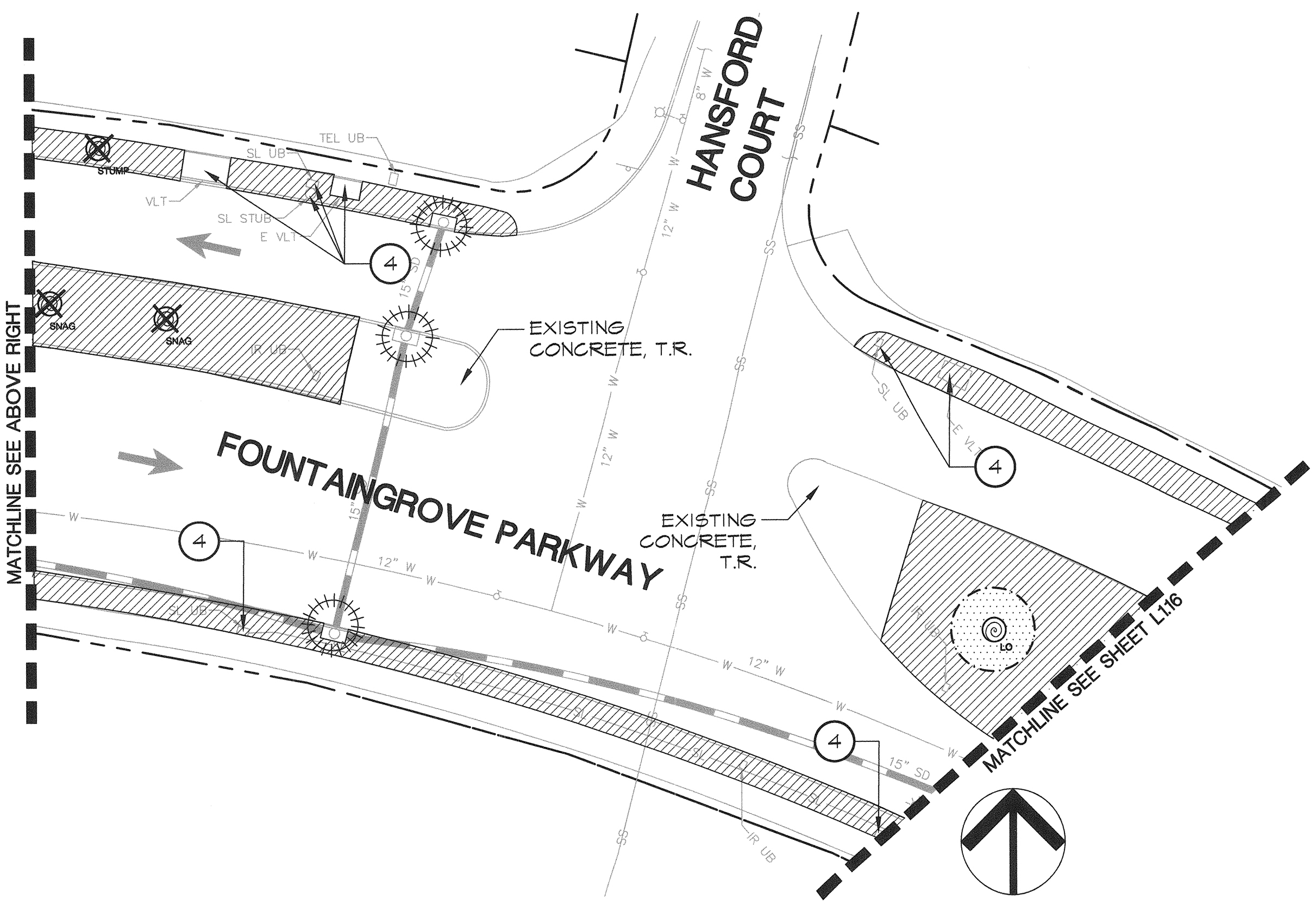
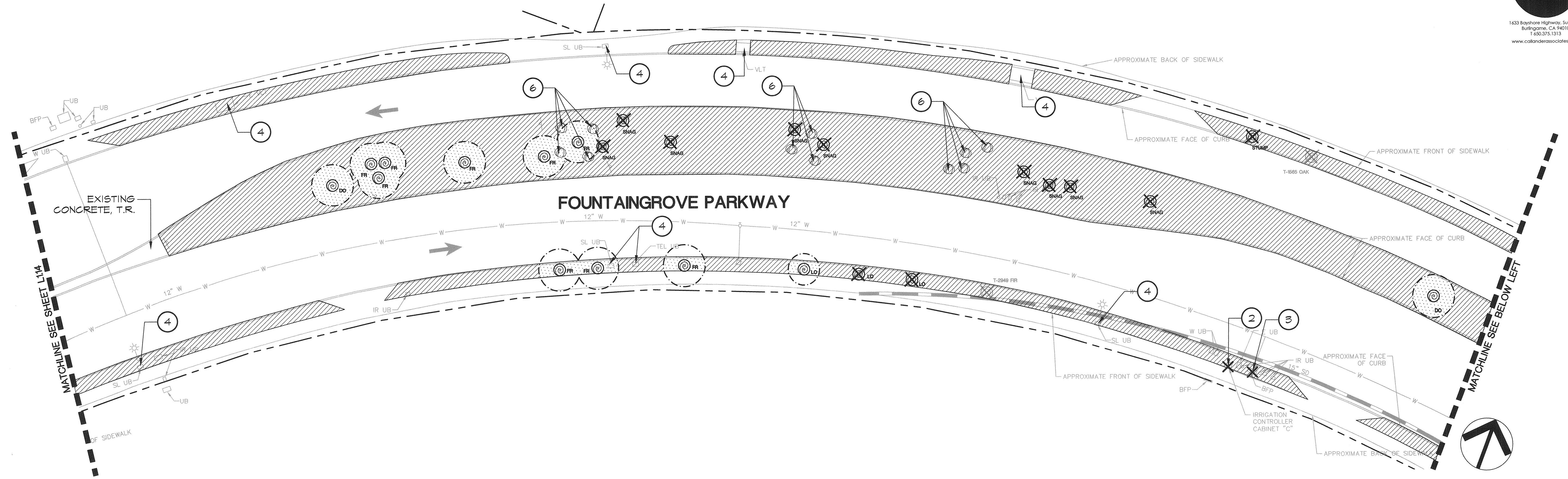
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CITY OF SANTA ROSA	CONTRACT NO. C02300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 18 OF 139
DEMOLITION PLAN	FILE NO. 2020-0011

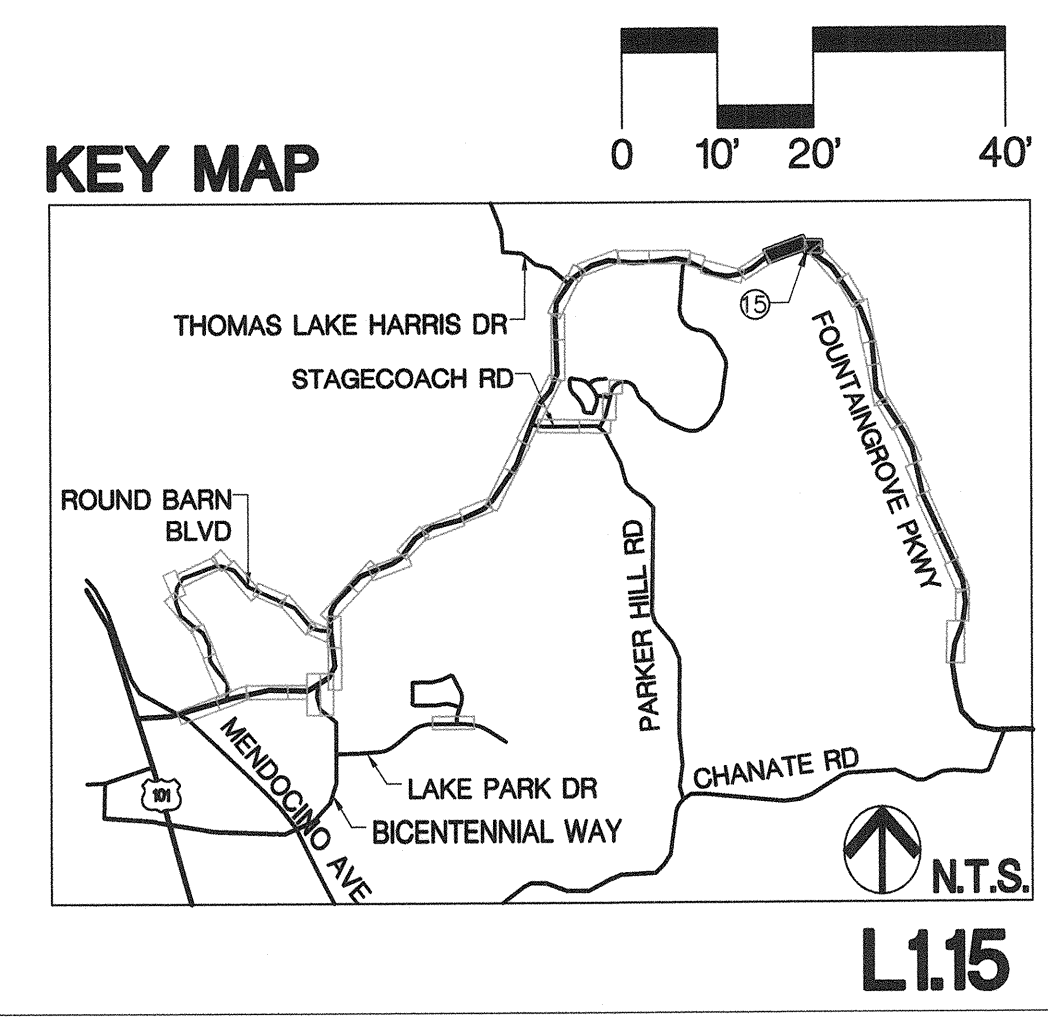


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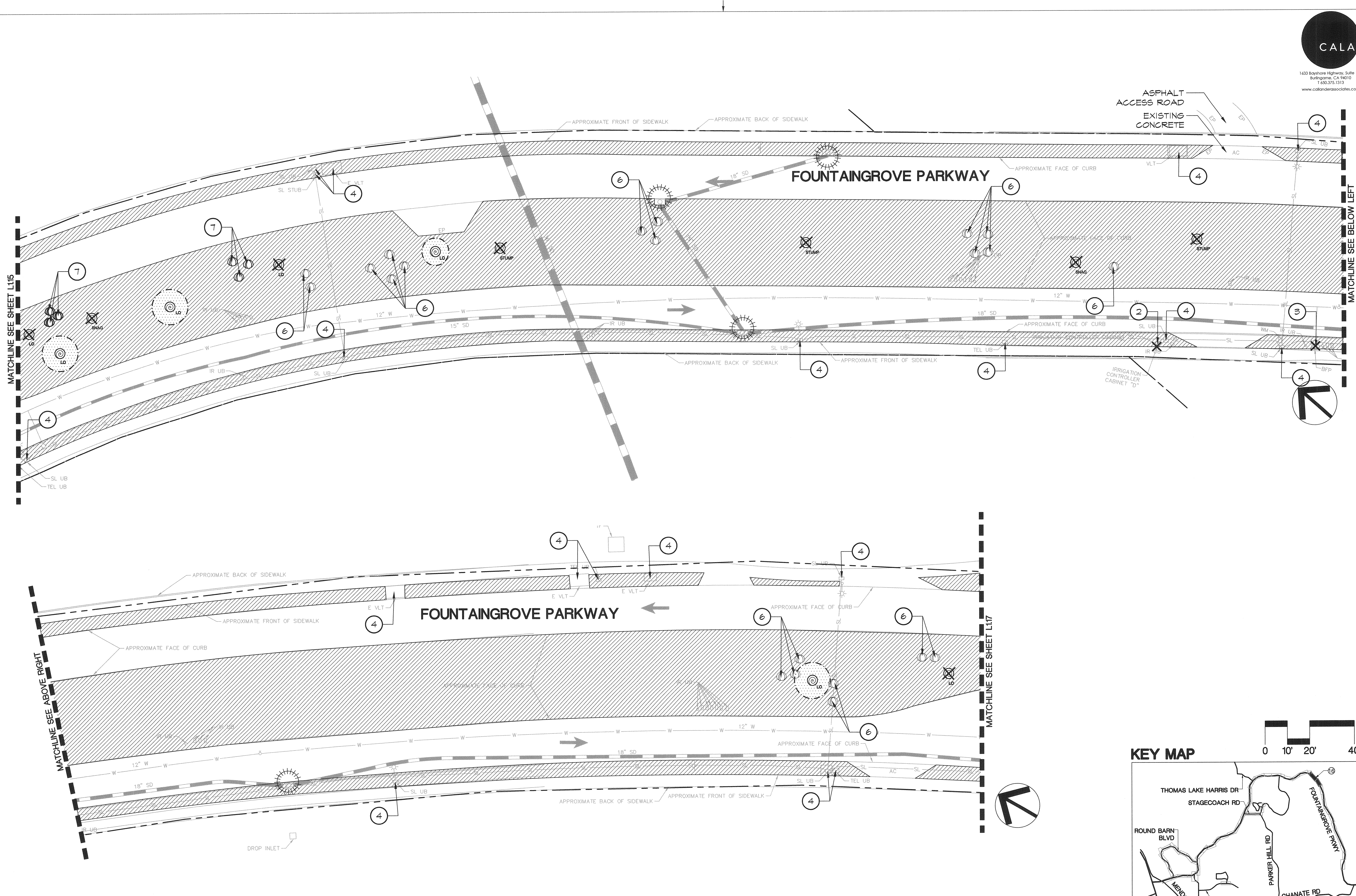
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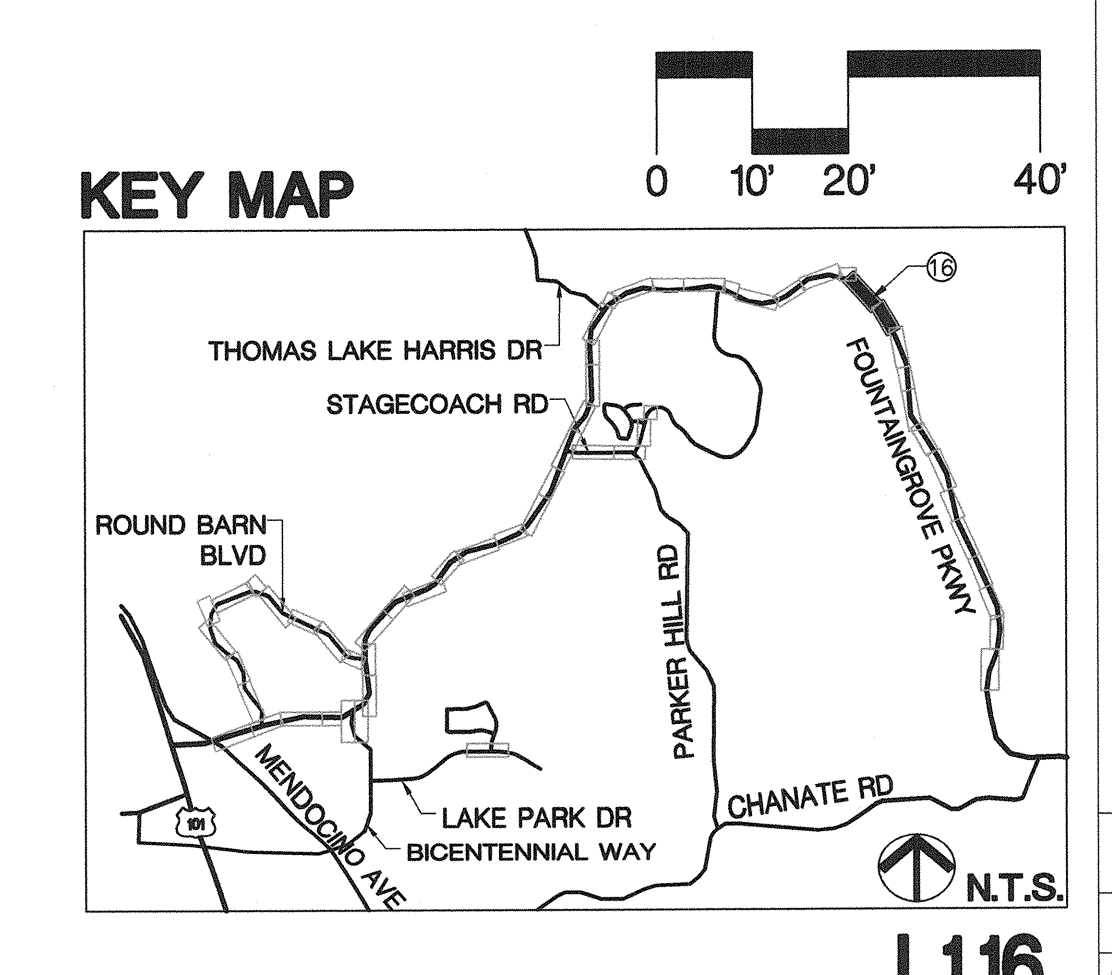
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CITY OF SANTA ROSA	DATE: 05/14/2021
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DEMOLITION PLAN	DWN BY: DC
CONTRACT NO. C02300	CHK BY: MR
SHEET 19 OF 139	
FILE NO. 2020-0011	

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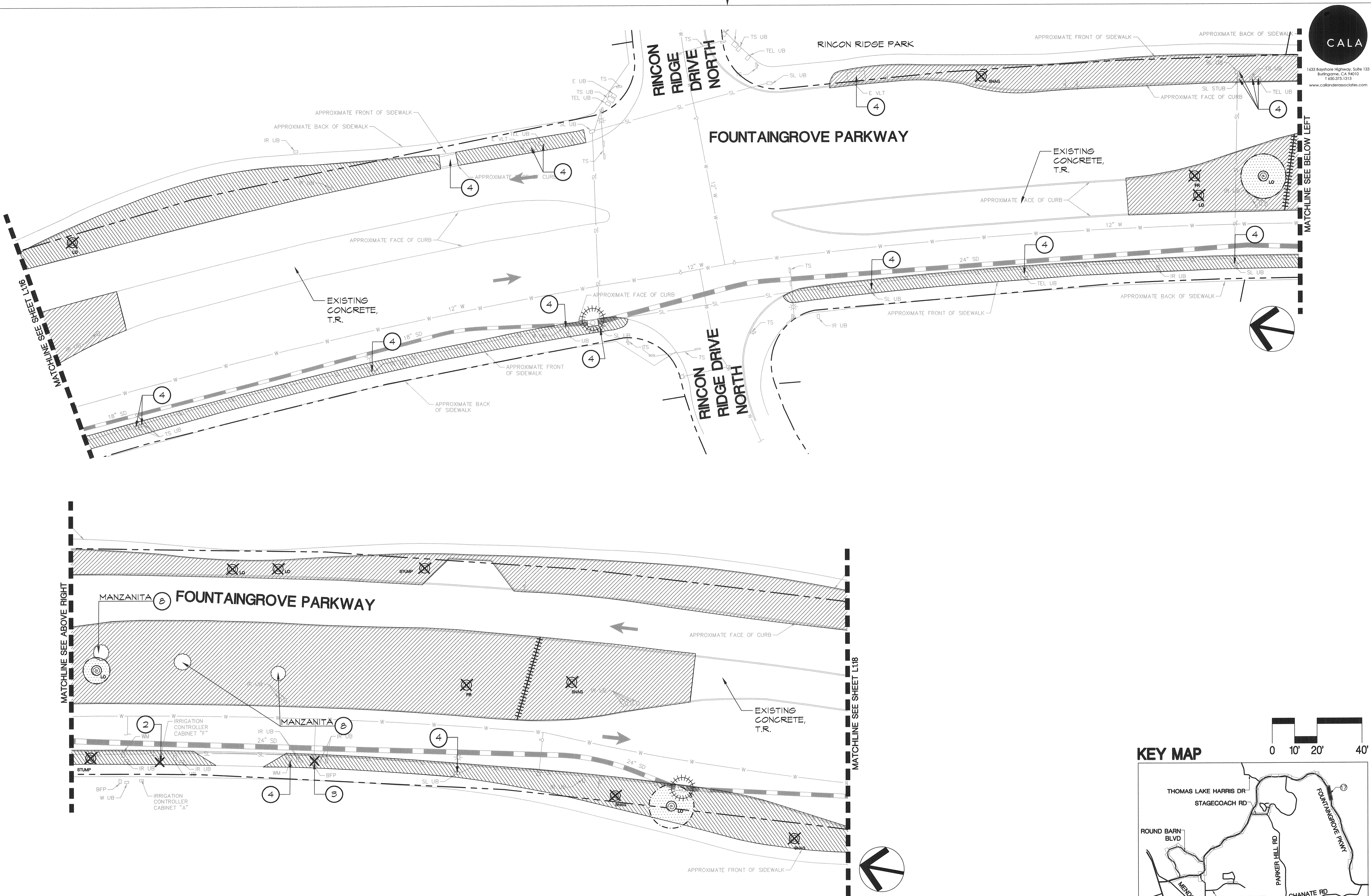
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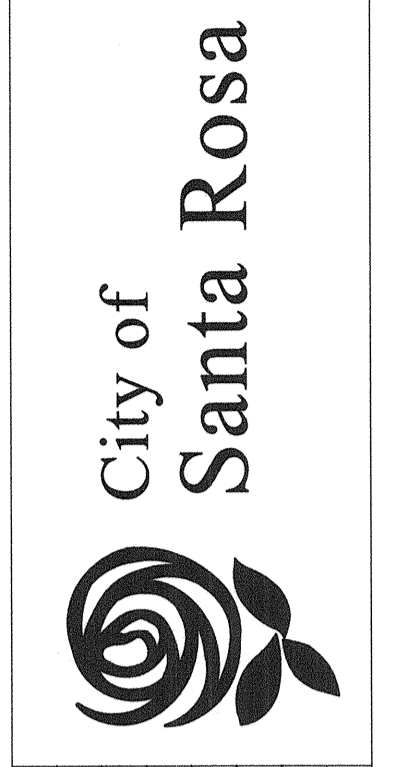
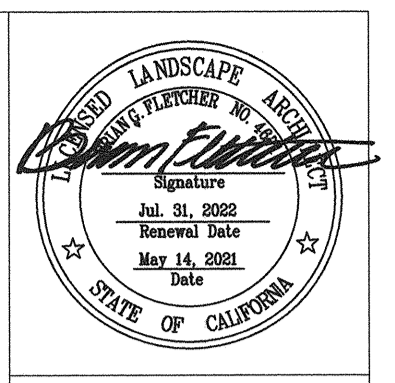
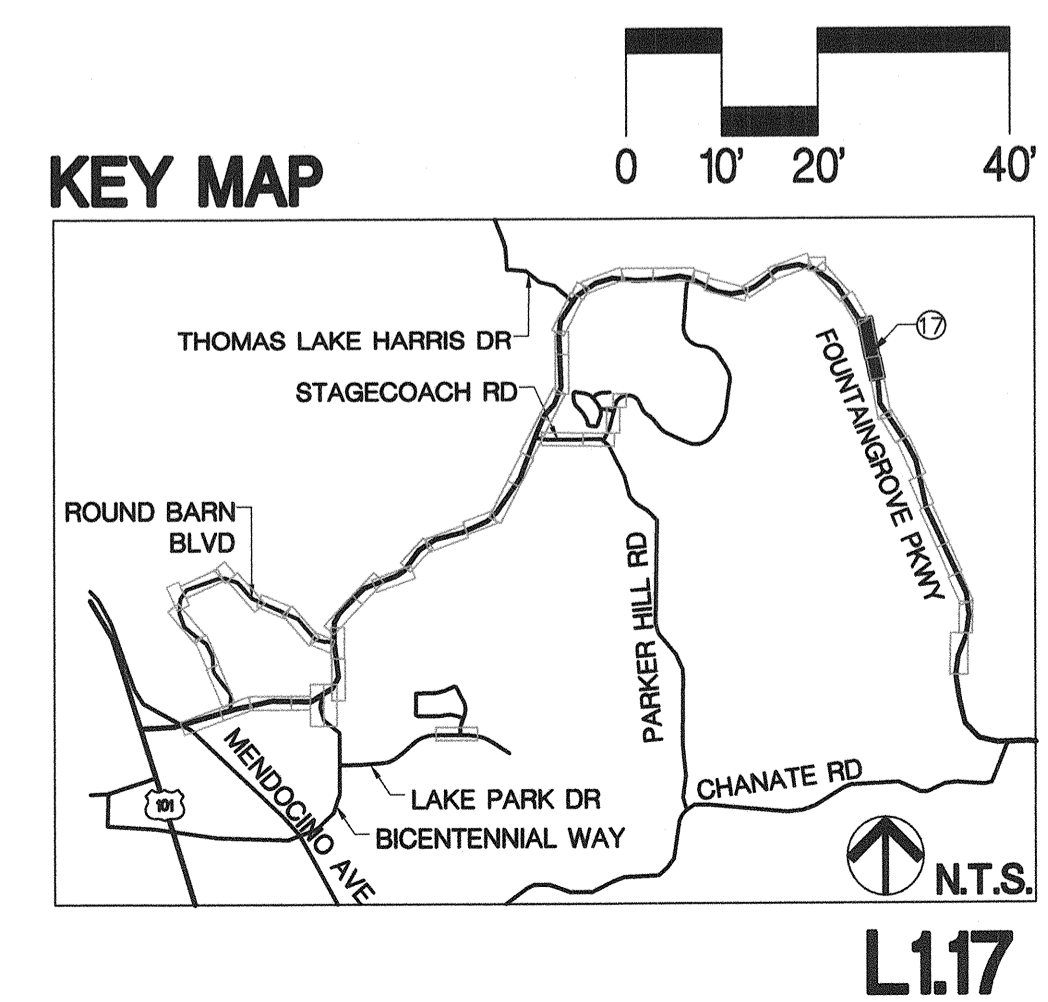
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
DEMOLITION PLAN
 CONTRACT NO. C02300
 SHEET 20 OF 139
 FILE NO. 2020-0011

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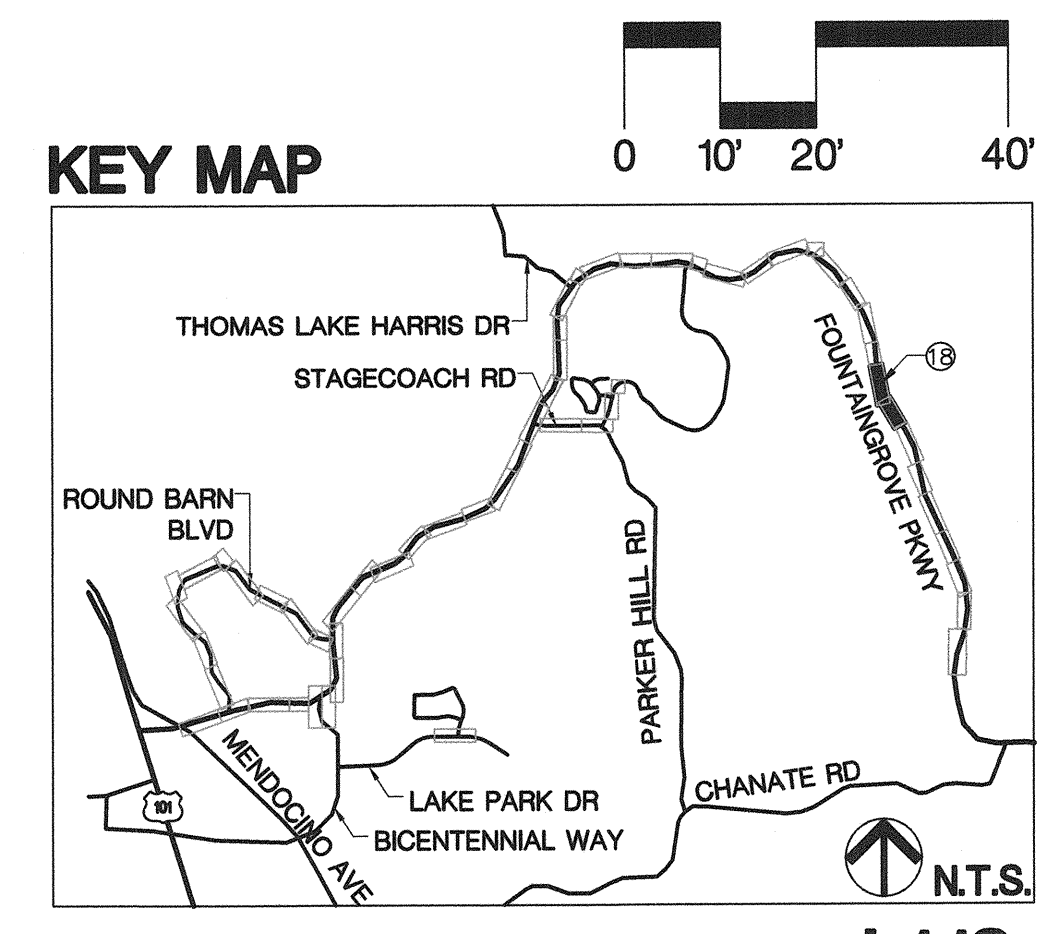
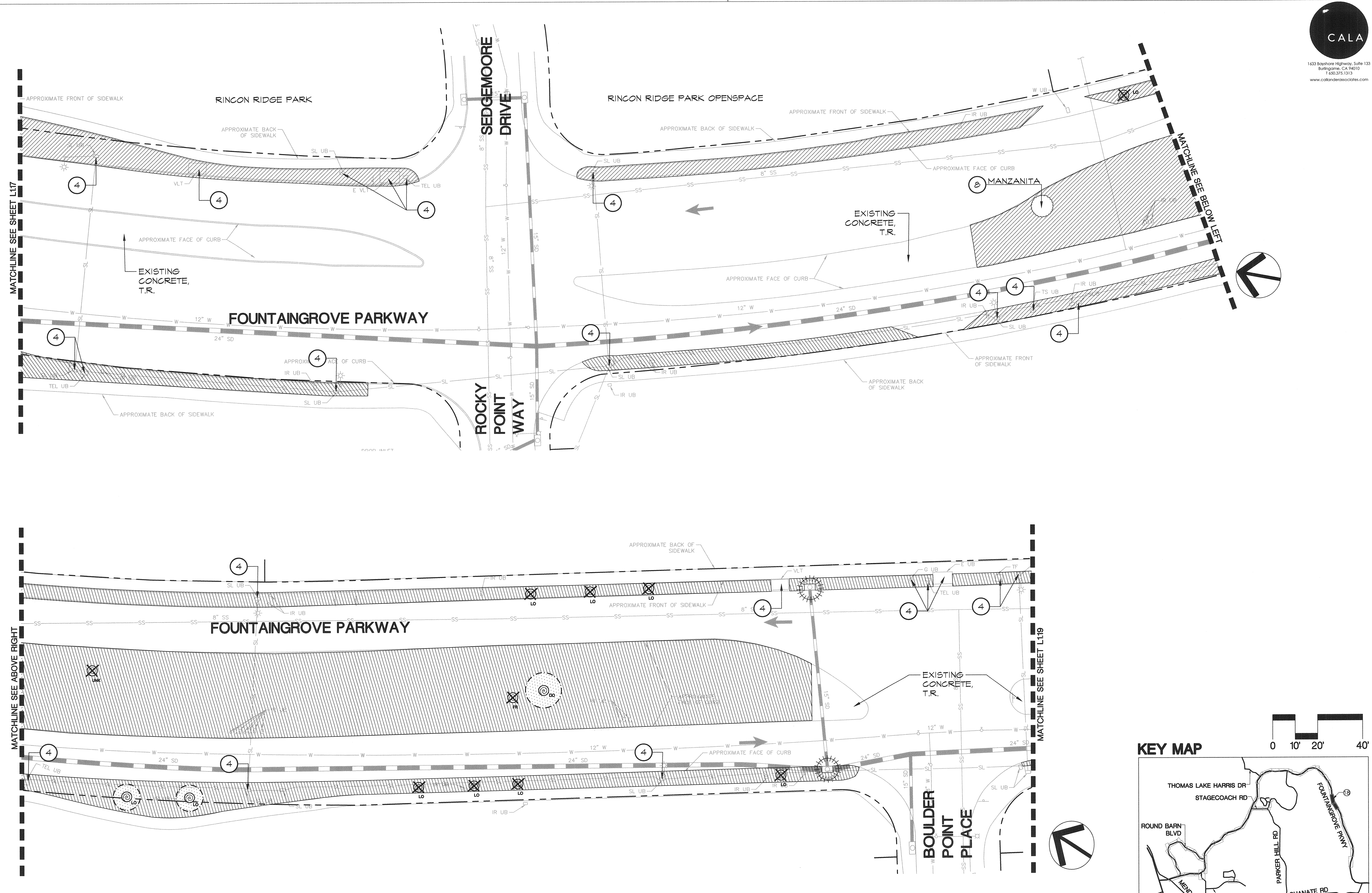
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NO.	DATE	REVISION	BY

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DWN BY: DC	CHK BY: MIR

CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING
DEMOLITION PLAN
CONTRACT NO. C02300
SHEET 21 of 139
FILE NO. 2020-0011



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 SEE SHEET LN1.00

NO.	DATE	REVISION	BY

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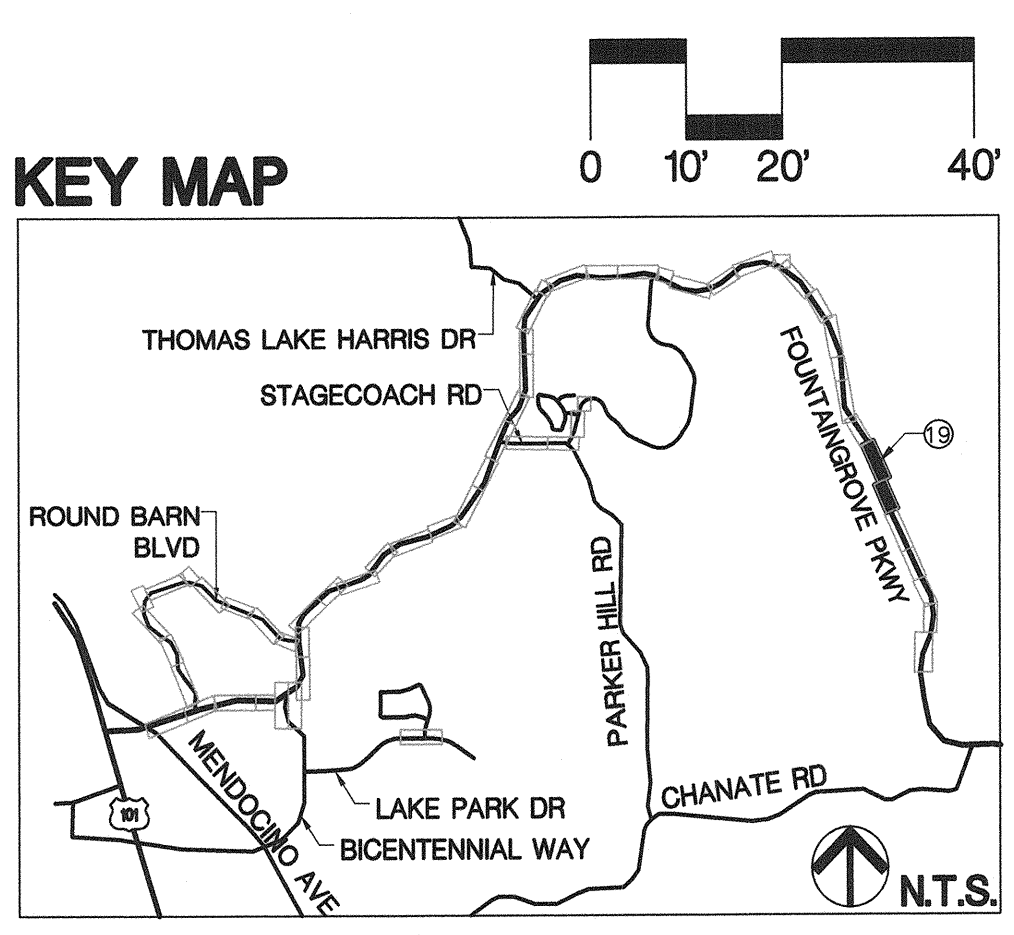
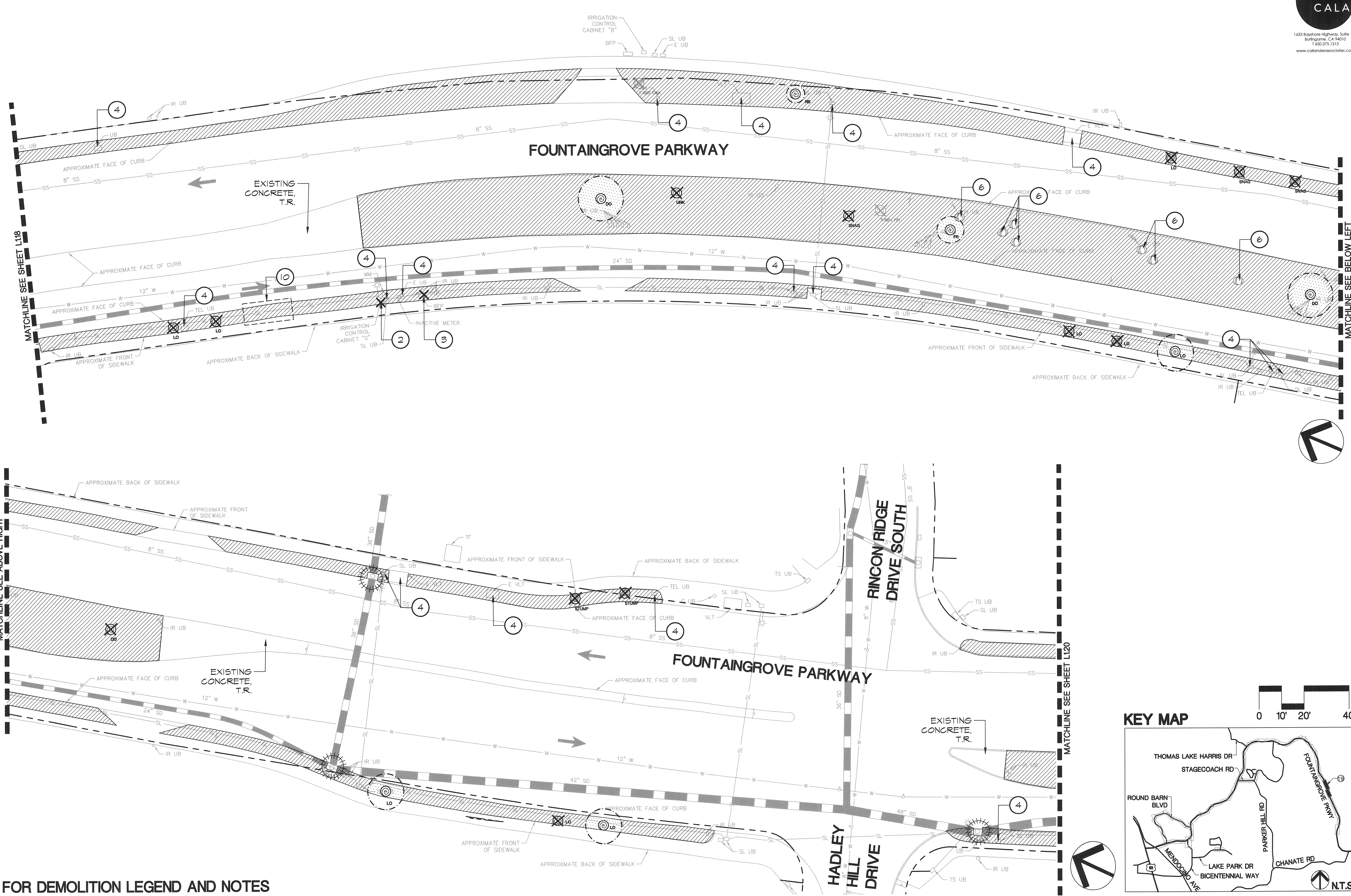
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
DEMOLITION PLAN
 CONTRACT NO. C02300
 SHEET 22 OF 139
 FILE NO. 2020-0011

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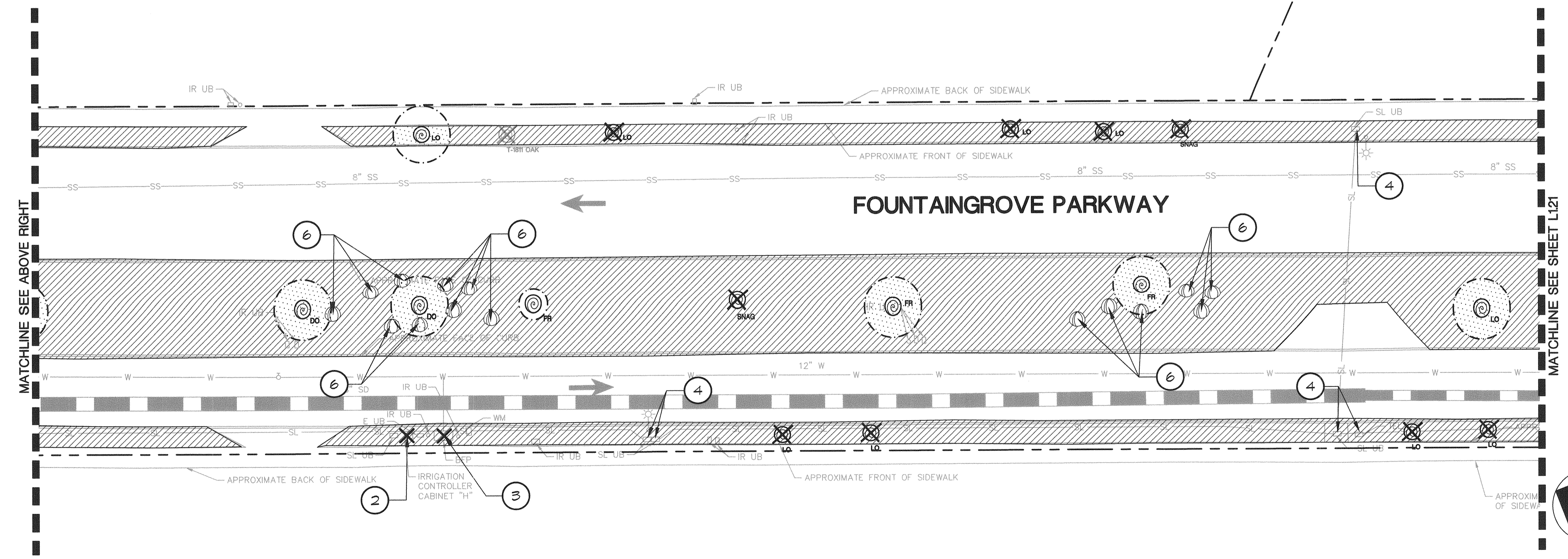
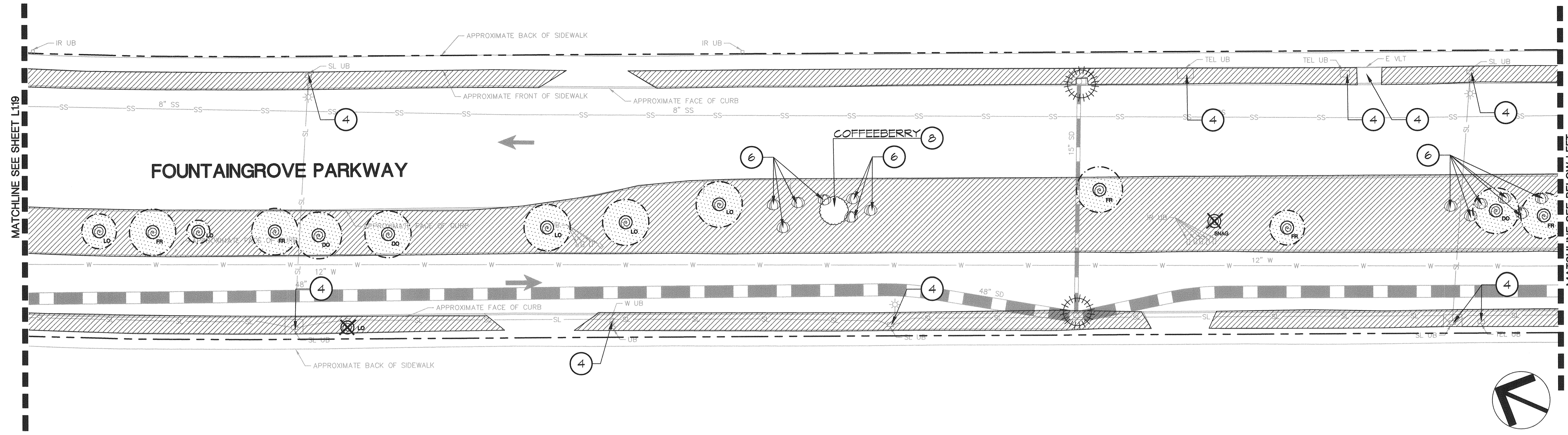
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CITY OF SANTA ROSA	CONTRACT NO. C02300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 23 OF 139
DEMOLITION PLAN	FILE NO. 2020-0011



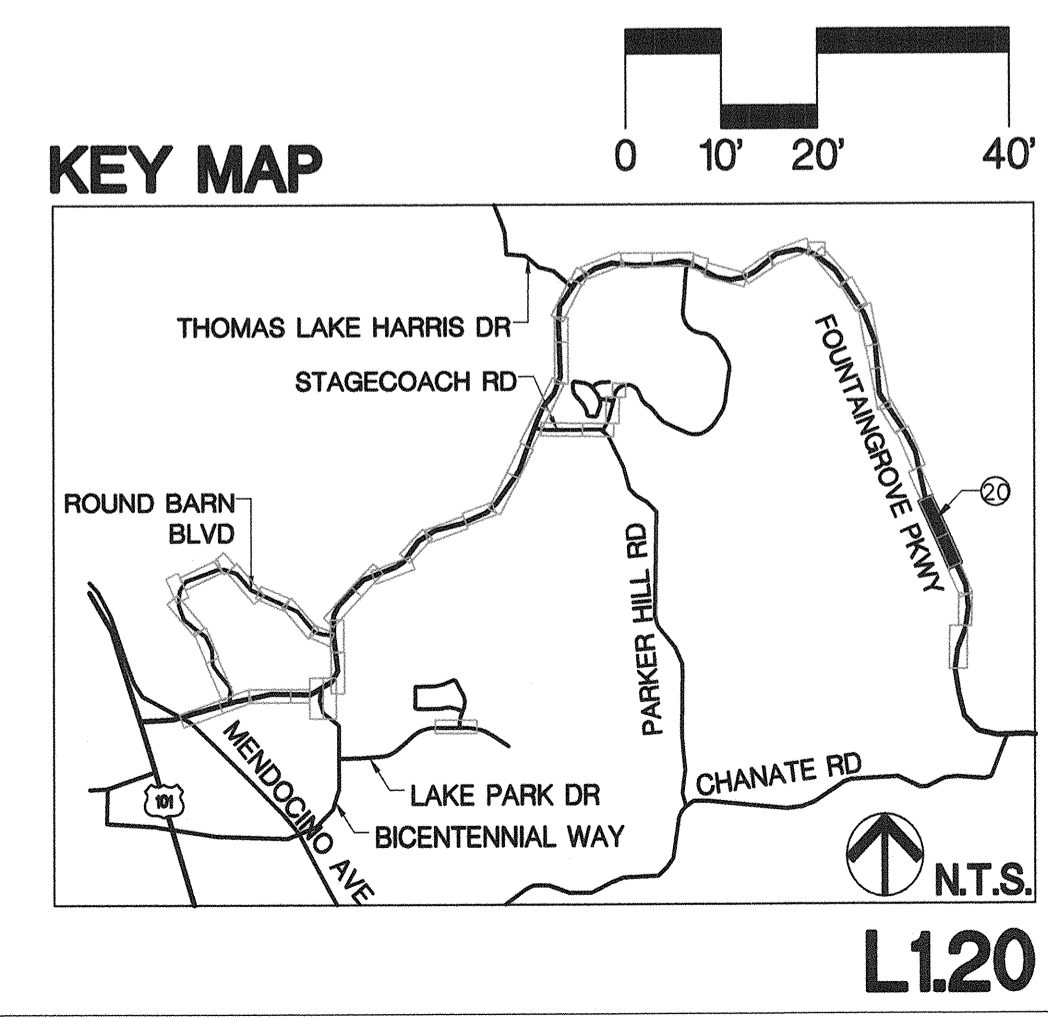
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CITY OF SANTA ROSA

 FIRE DAMAGED ROADWAY LANDSCAPING

DEMOLITION PLAN

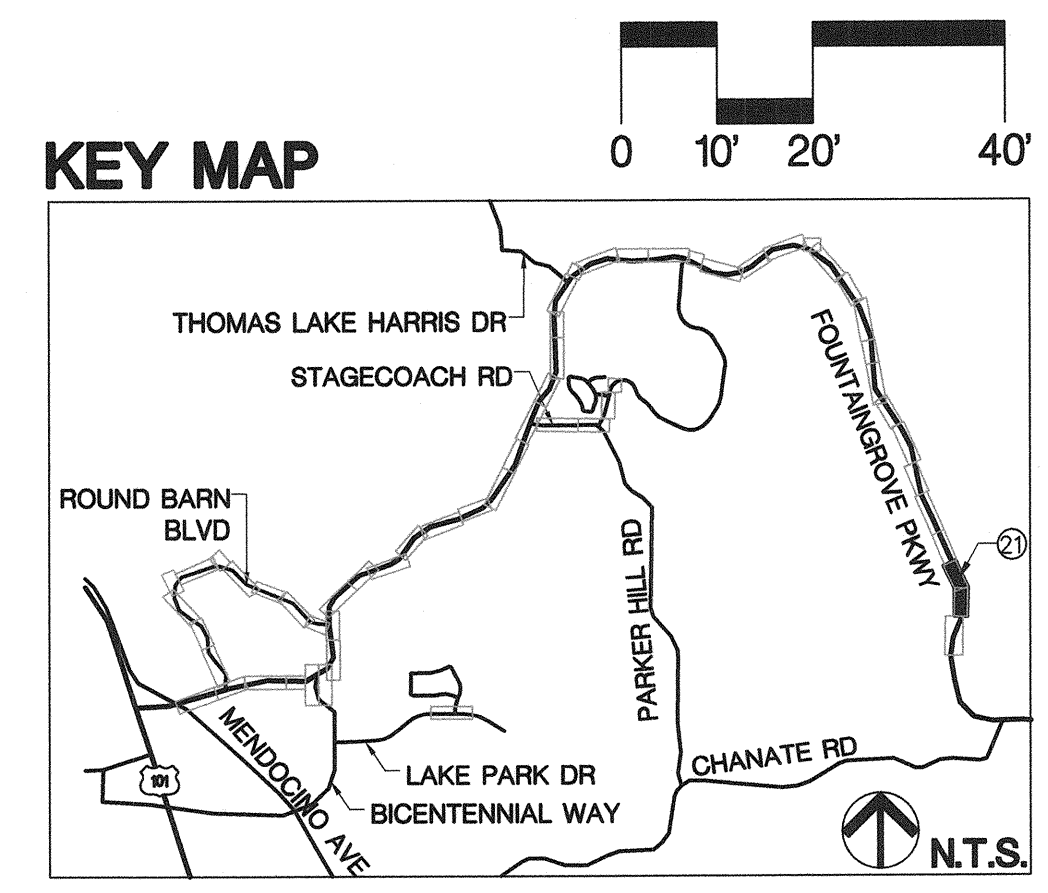
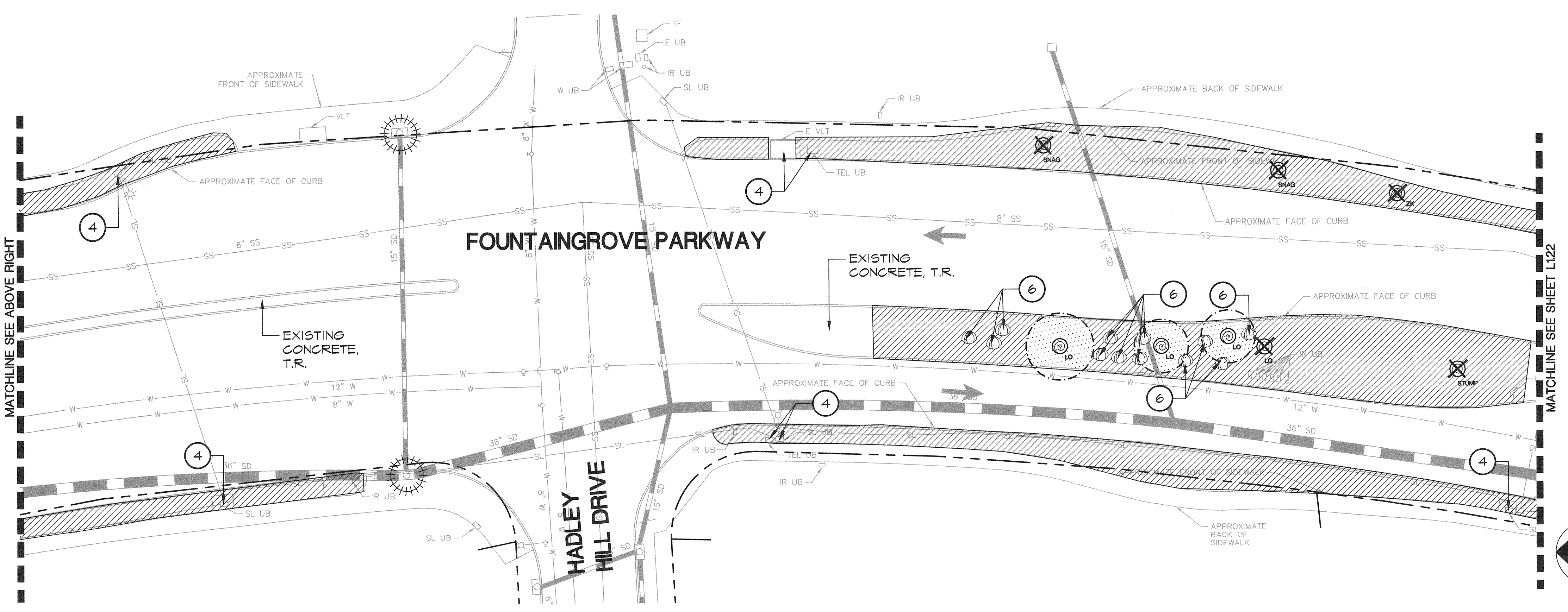
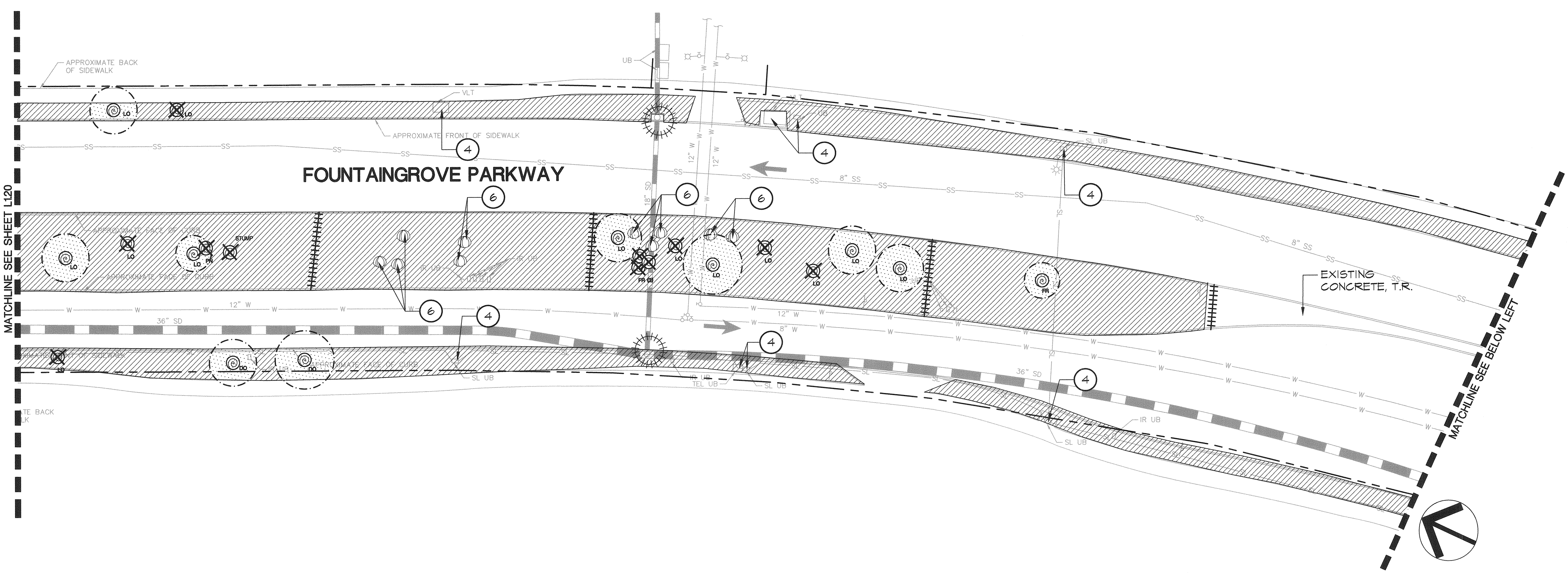
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 SHEET 24 OF 139

 FILE NO. 2020-0011

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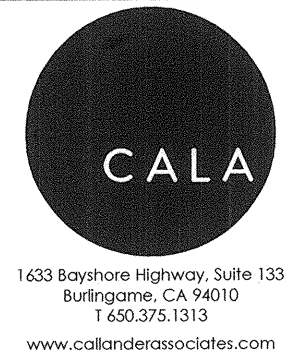
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NO.	DATE	REVISION	BY

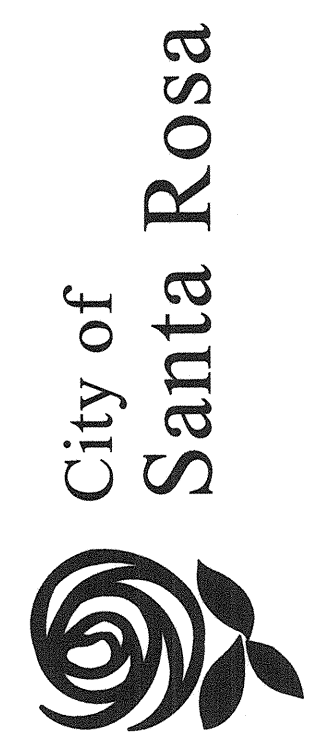
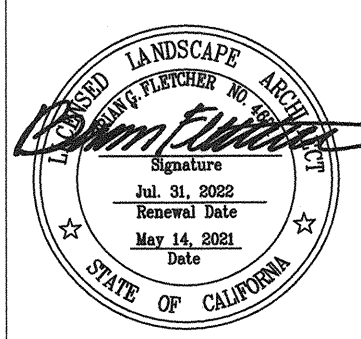
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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
DEMOLITION PLAN
 CONTRACT NO. C02300
 SHEET 25 OF 139
 FILE NO. 2020-0011

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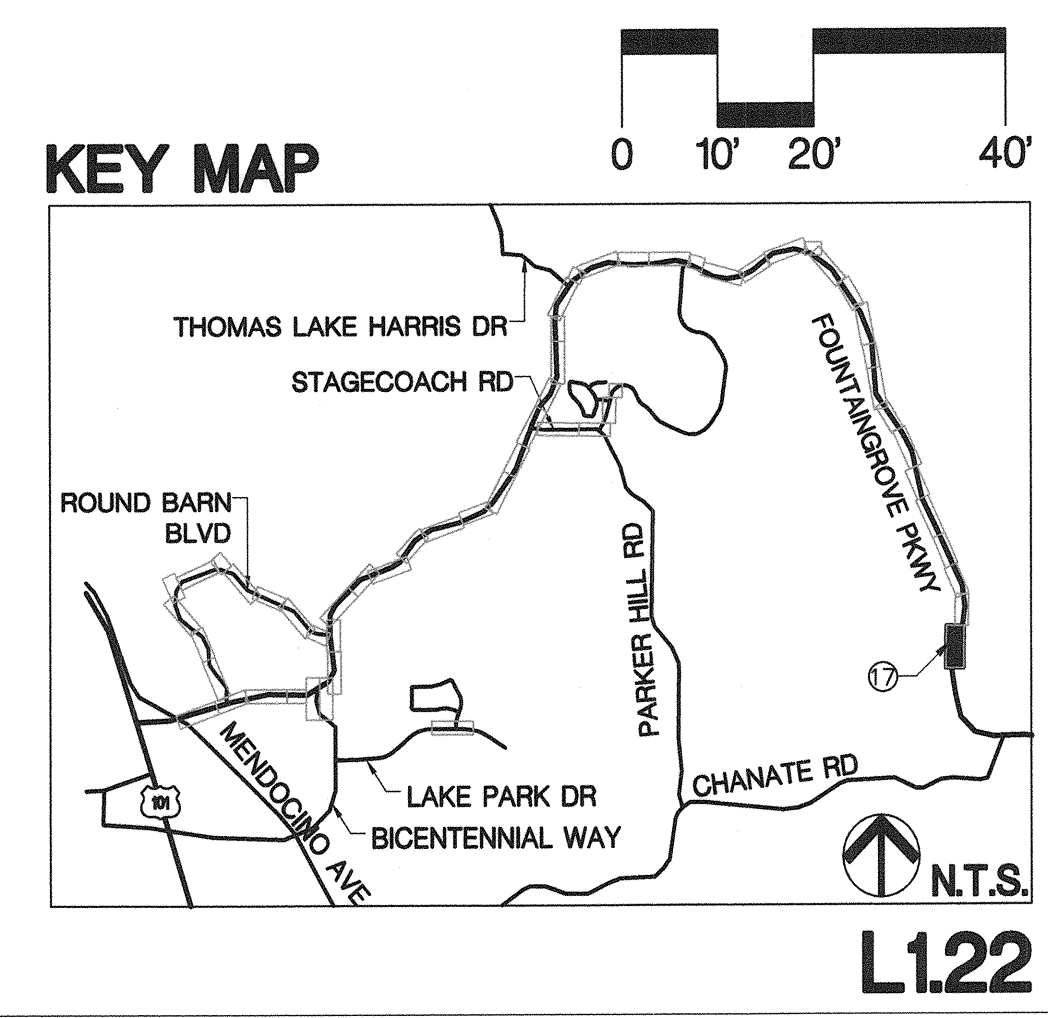
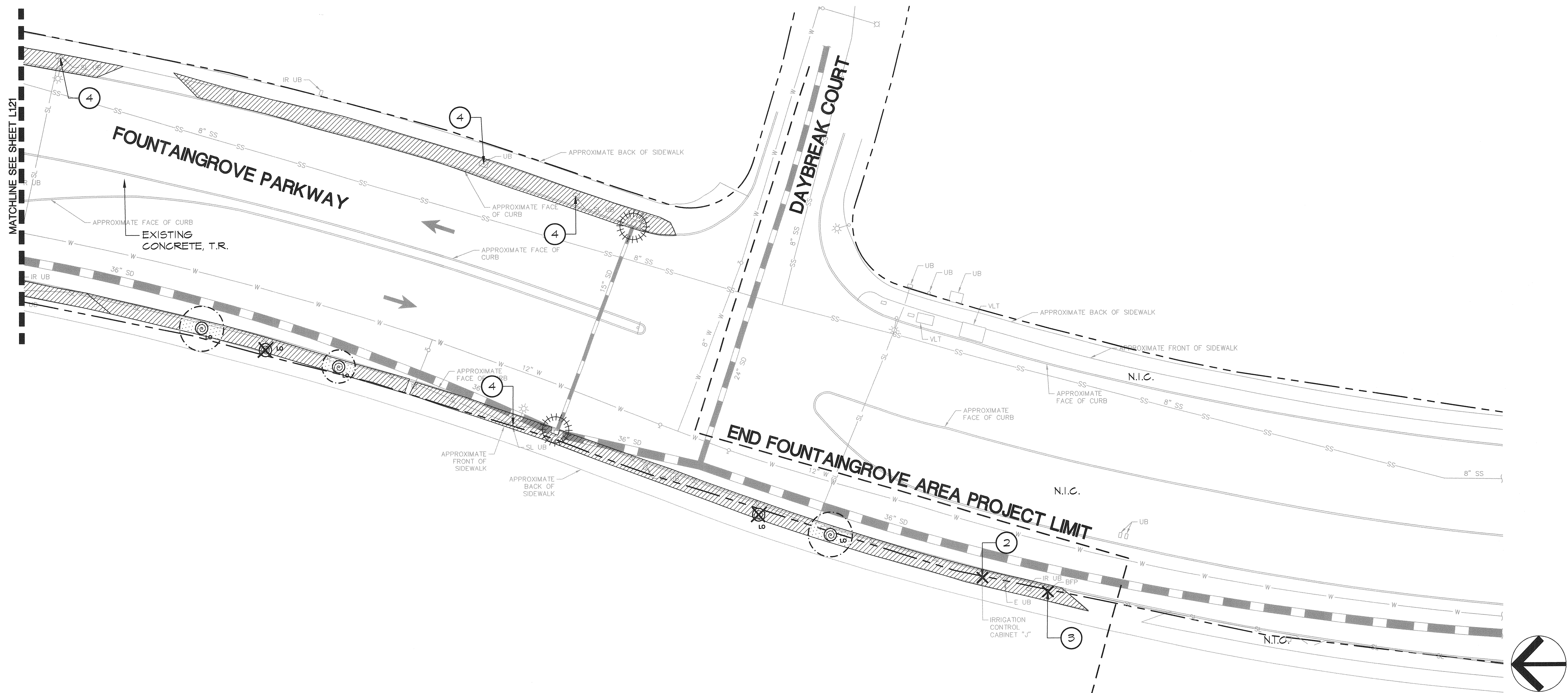
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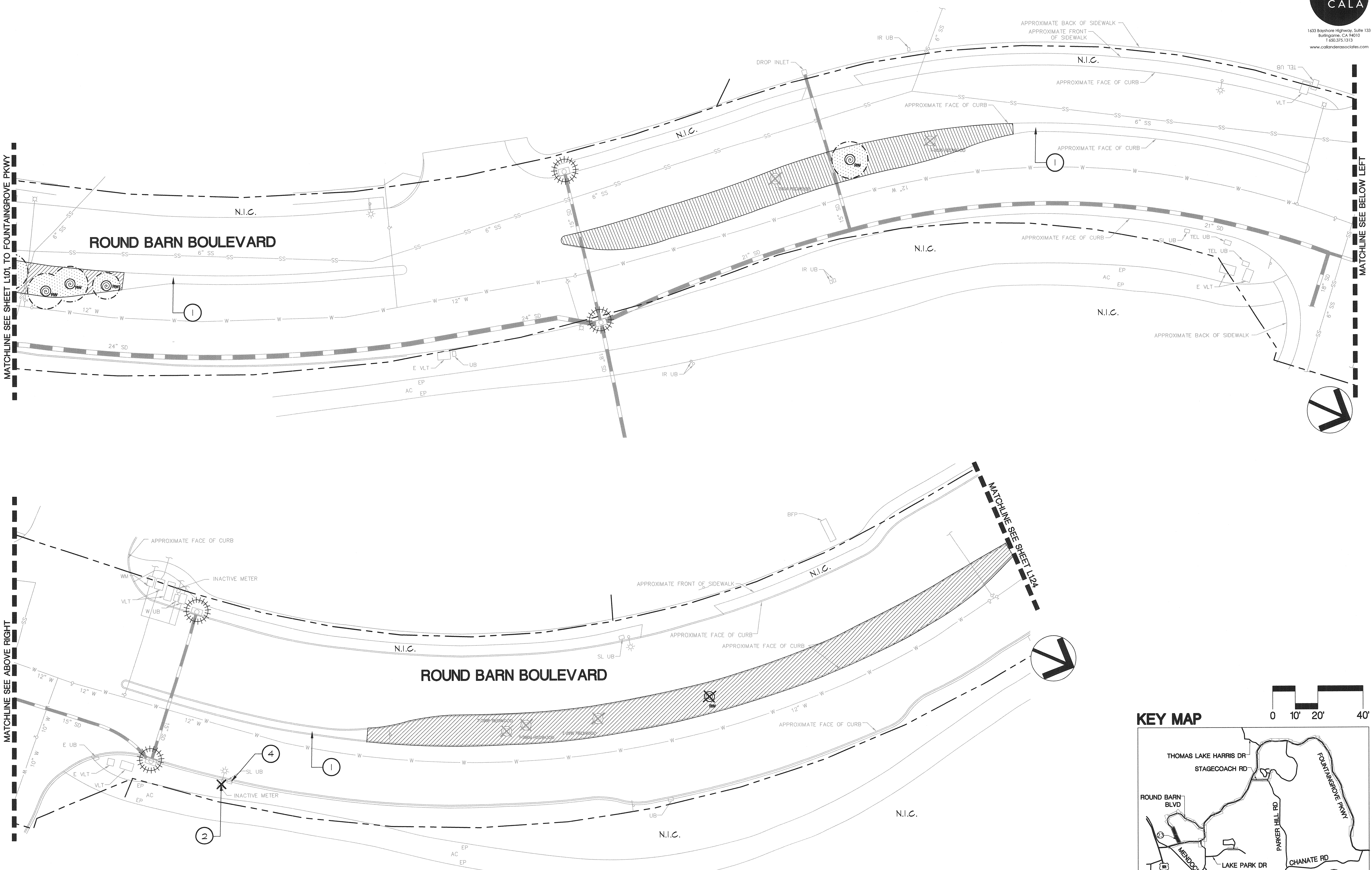
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CITY OF SANTA ROSA	FIRE DAMAGED ROADWAY LANDSCAPING
DEMOLITION PLAN	
CONTRACT NO. C02300	
SHEET 26 OF 139	
FILE NO. 2020-0011	

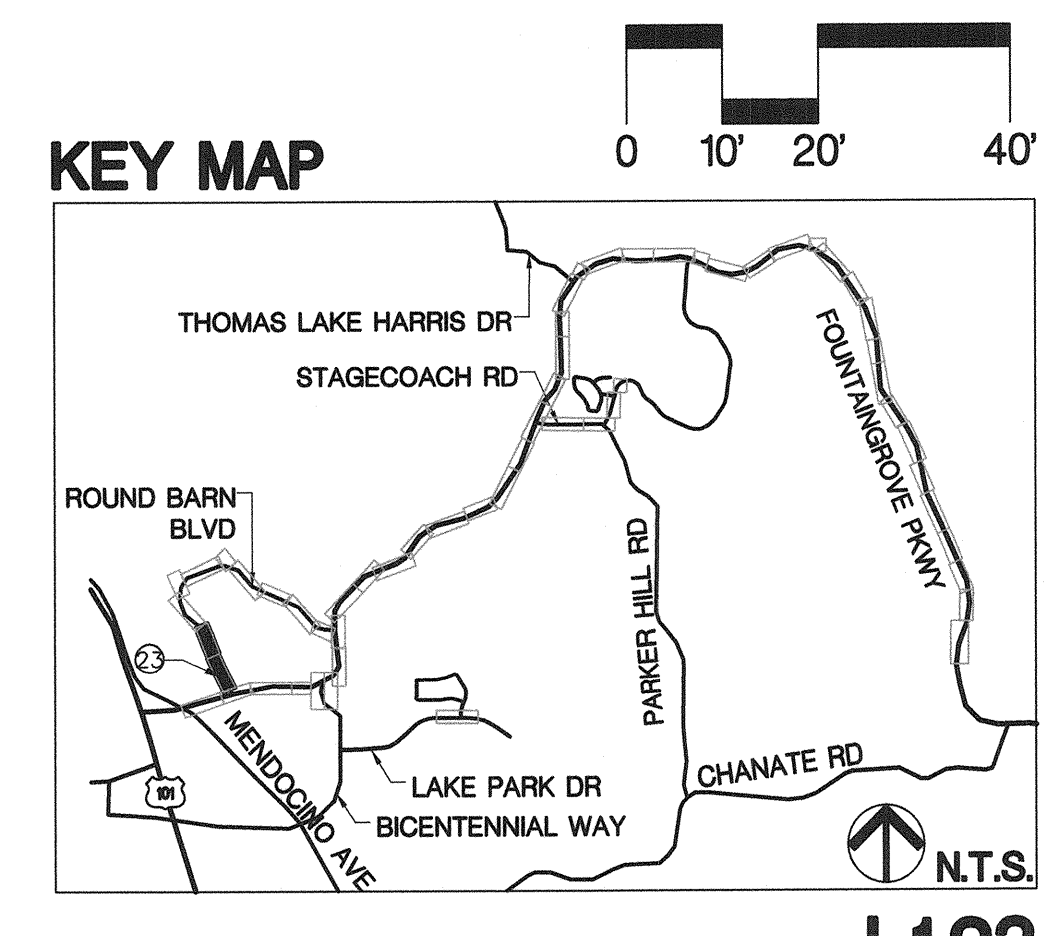


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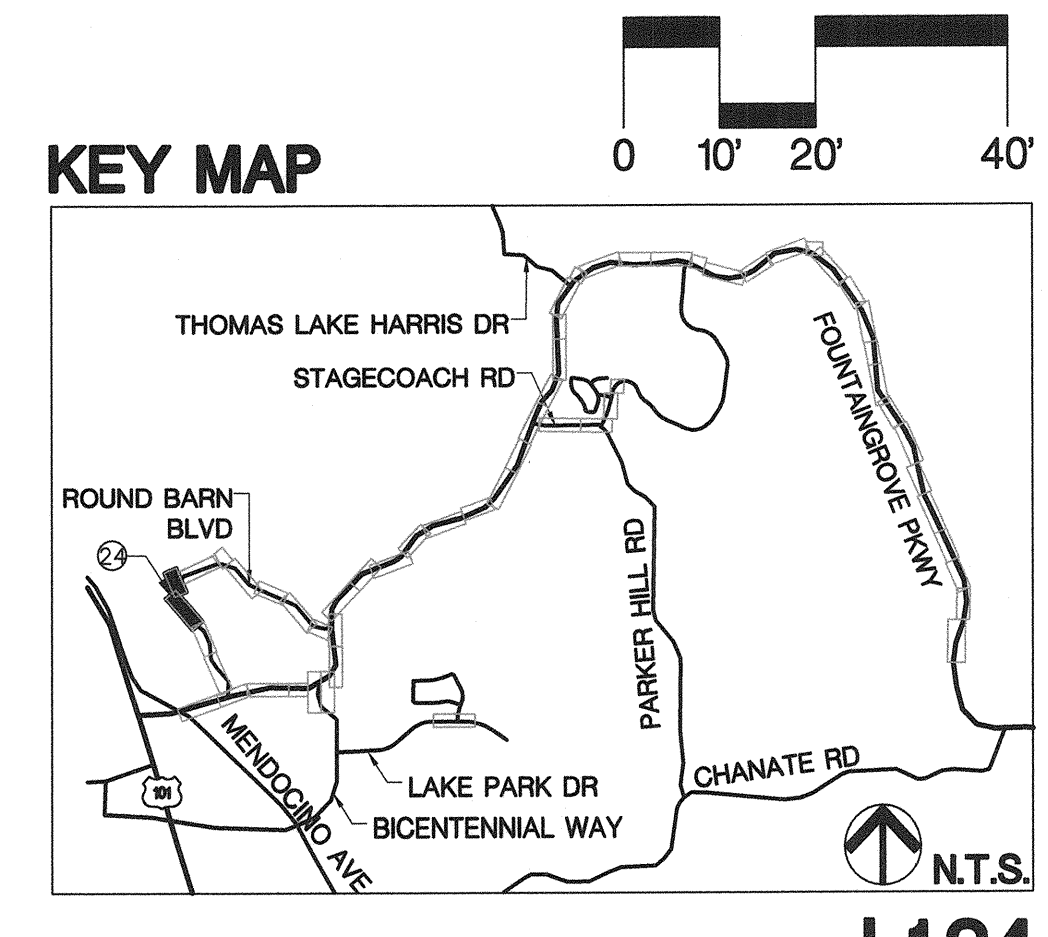
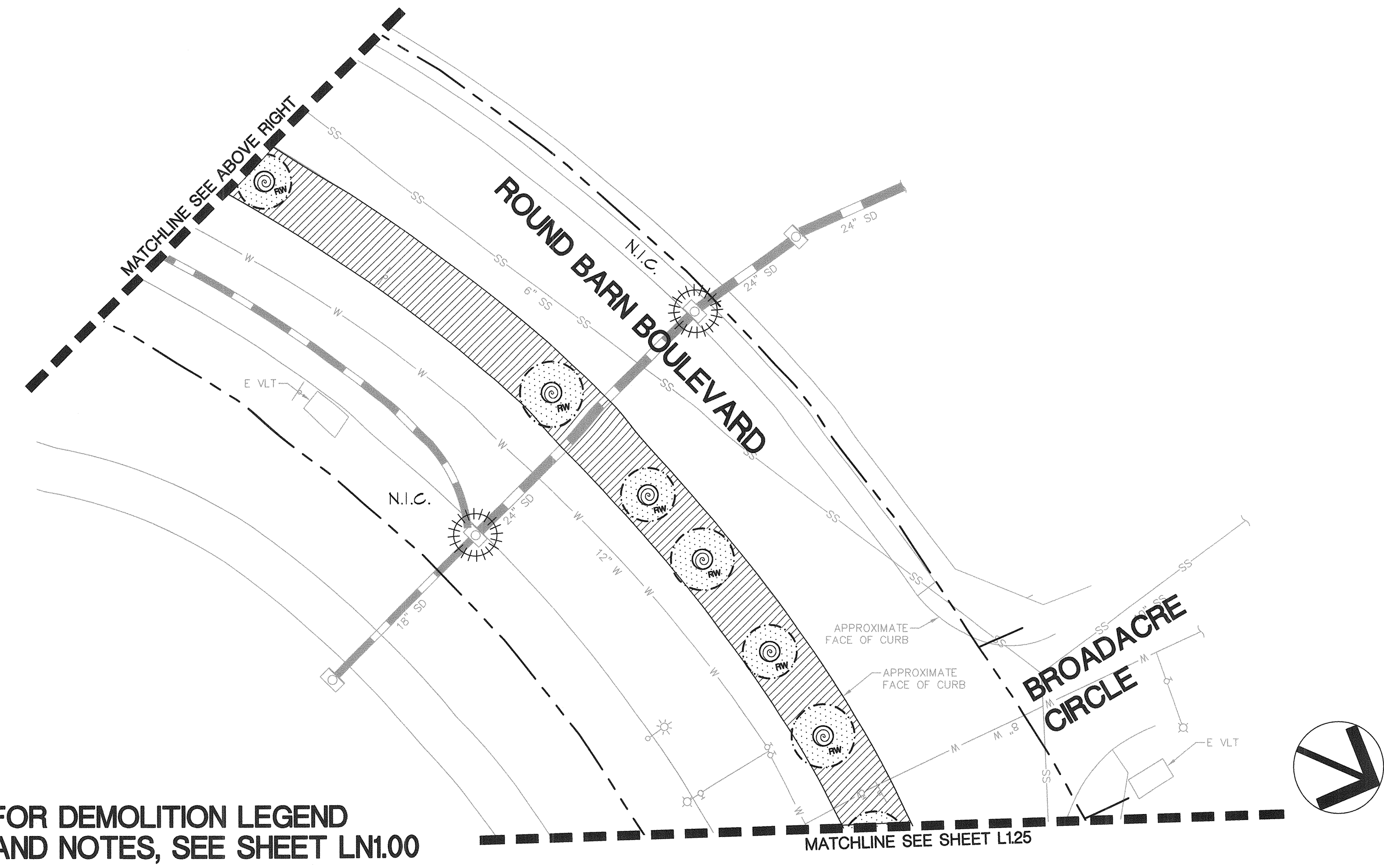
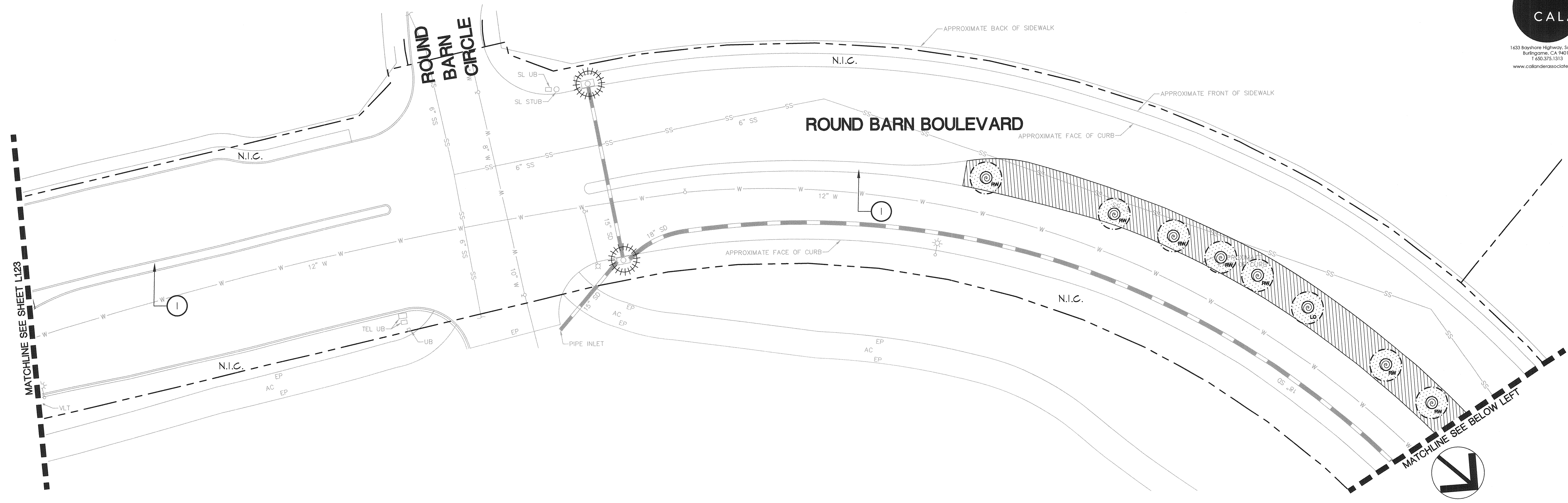


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DWN BY: DC	CHK BY: MR

CITY OF SANTA ROSA	FIRE DAMAGED ROADWAY LANDSCAPING	DEMOLITION PLAN
CONTRACT NO. C02300	SHEET 27 OF 139	FILE NO. 2020-0011

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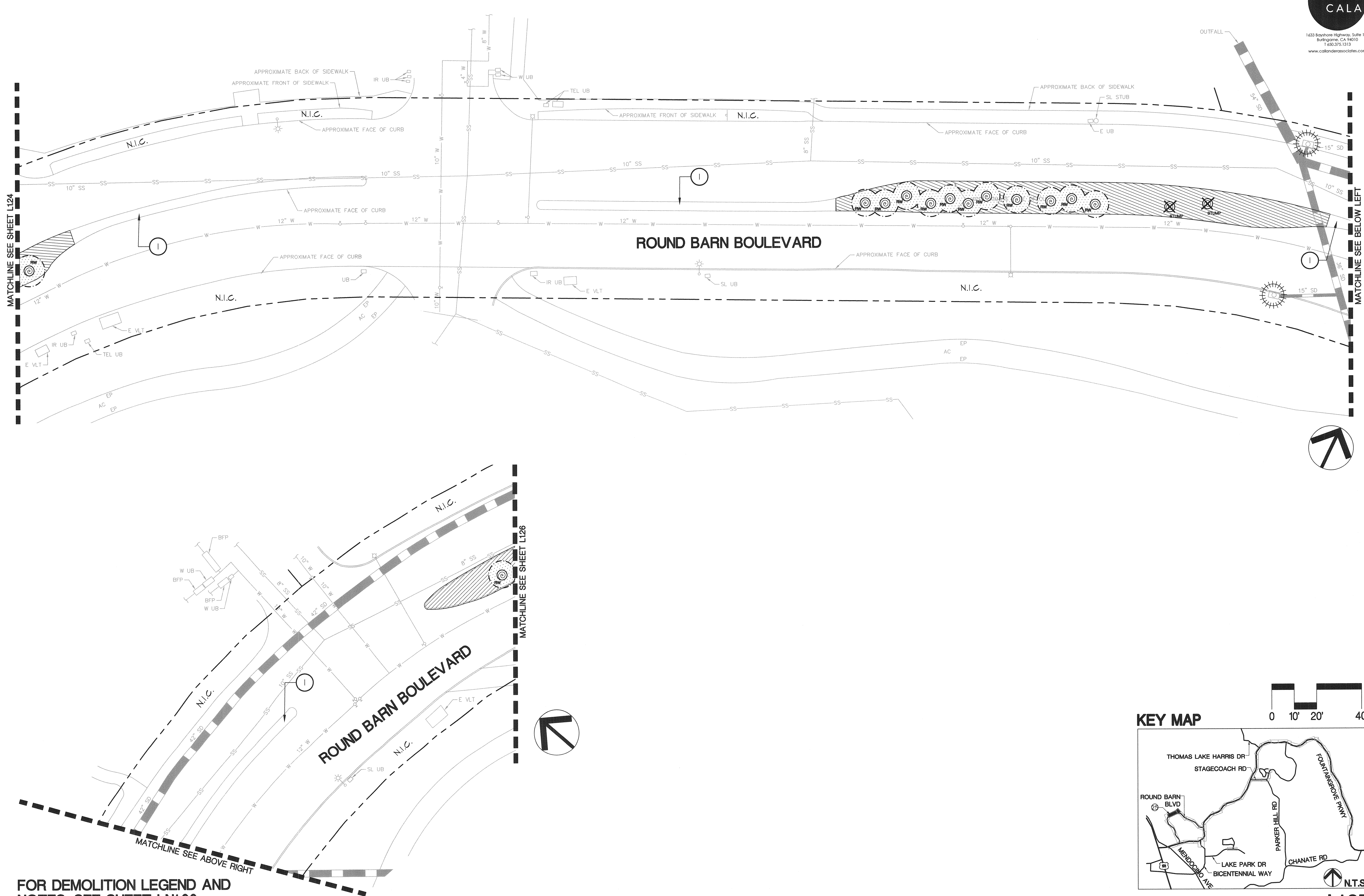
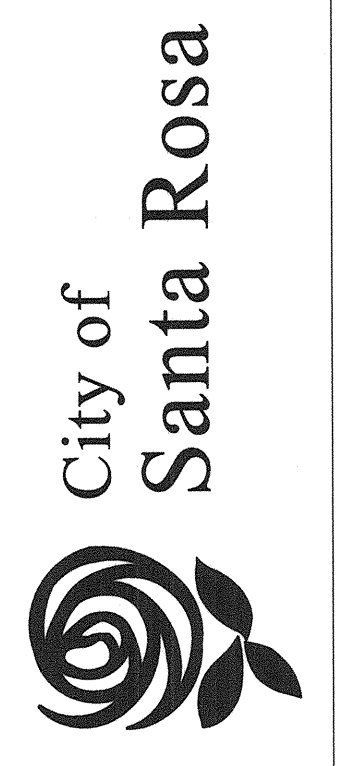
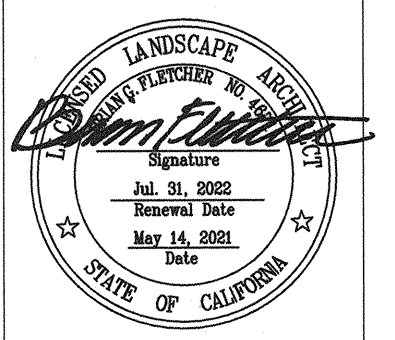
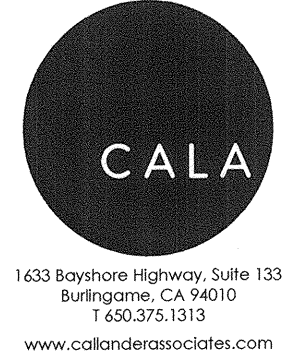
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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
DEMOLITION PLAN
 CONTRACT NO. C02300
 SHEET 28 OF 139
 FILE NO. 2020-0011

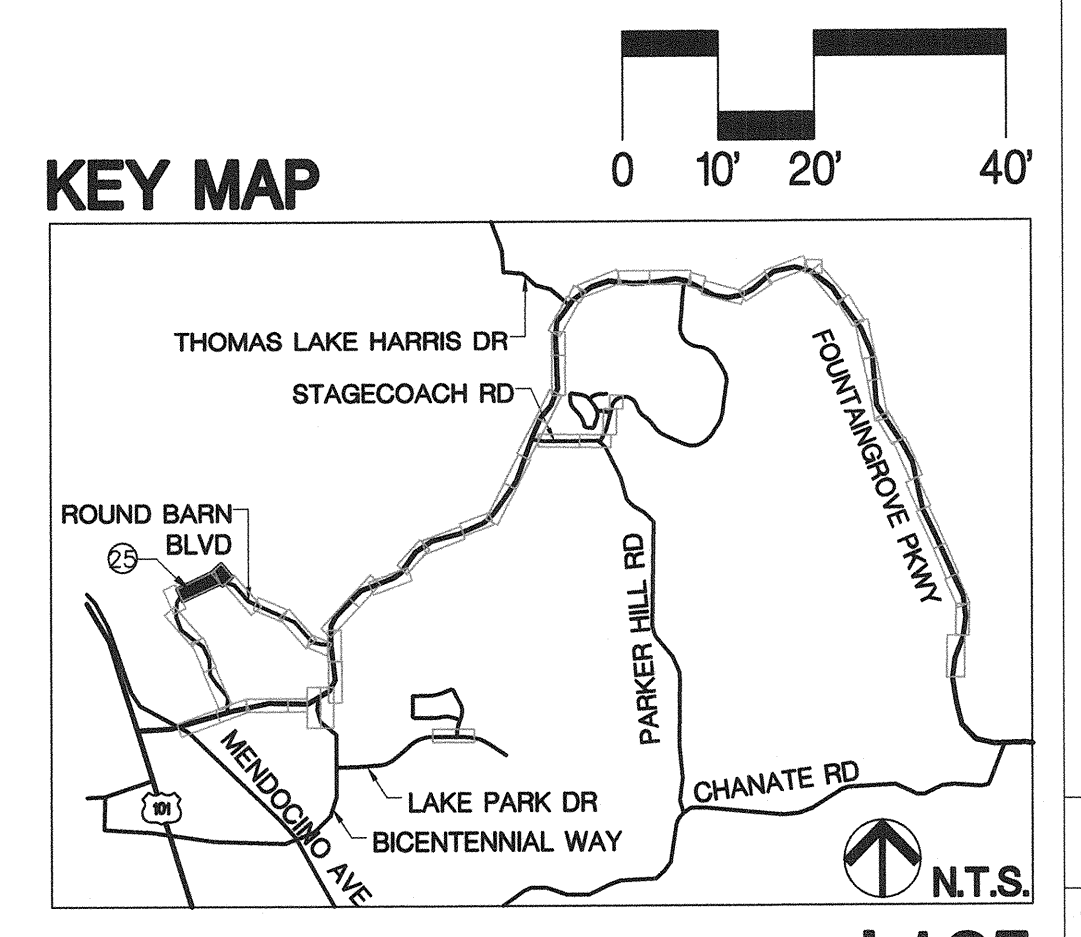
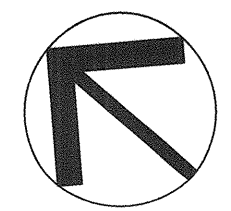
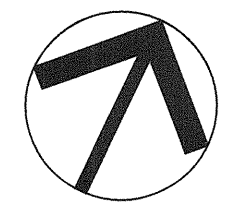
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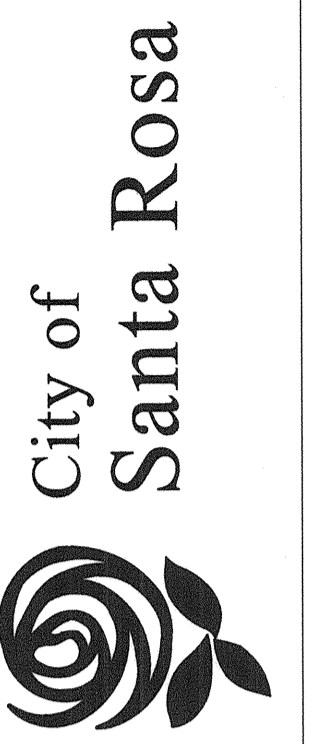
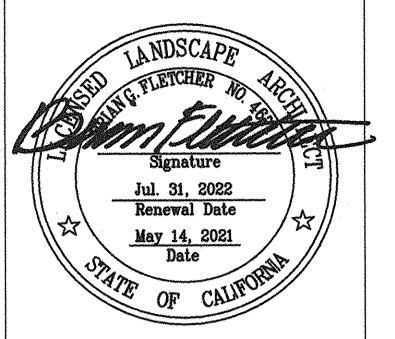
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CITY OF SANTA ROSA	SCALE: AS SHOWN	DATE: 05/14/2021
FIRE DAMAGED ROADWAY LANDSCAPING	DWN BY: DC	CHK BY: MR

DEMOLITION PLAN
CONTRACT NO. C02300
SHEET 29 OF 139
FILE NO. 2020-0011



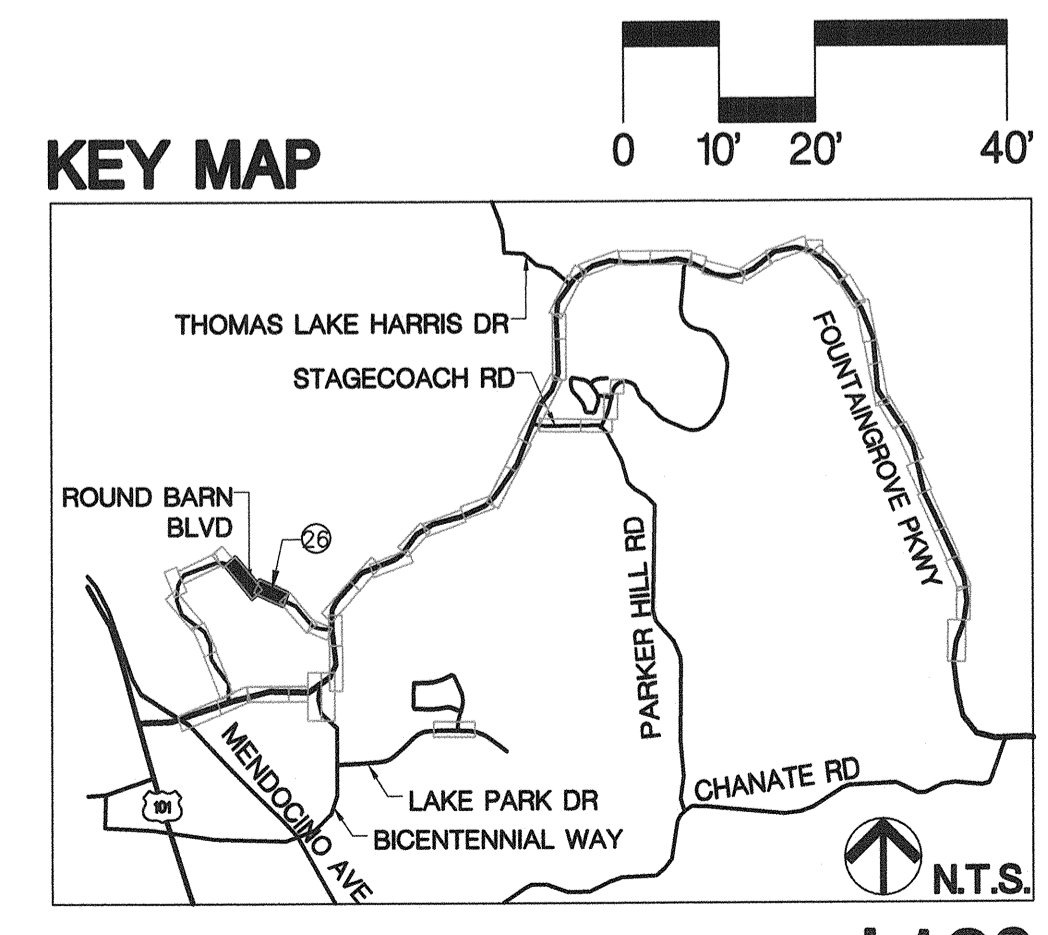
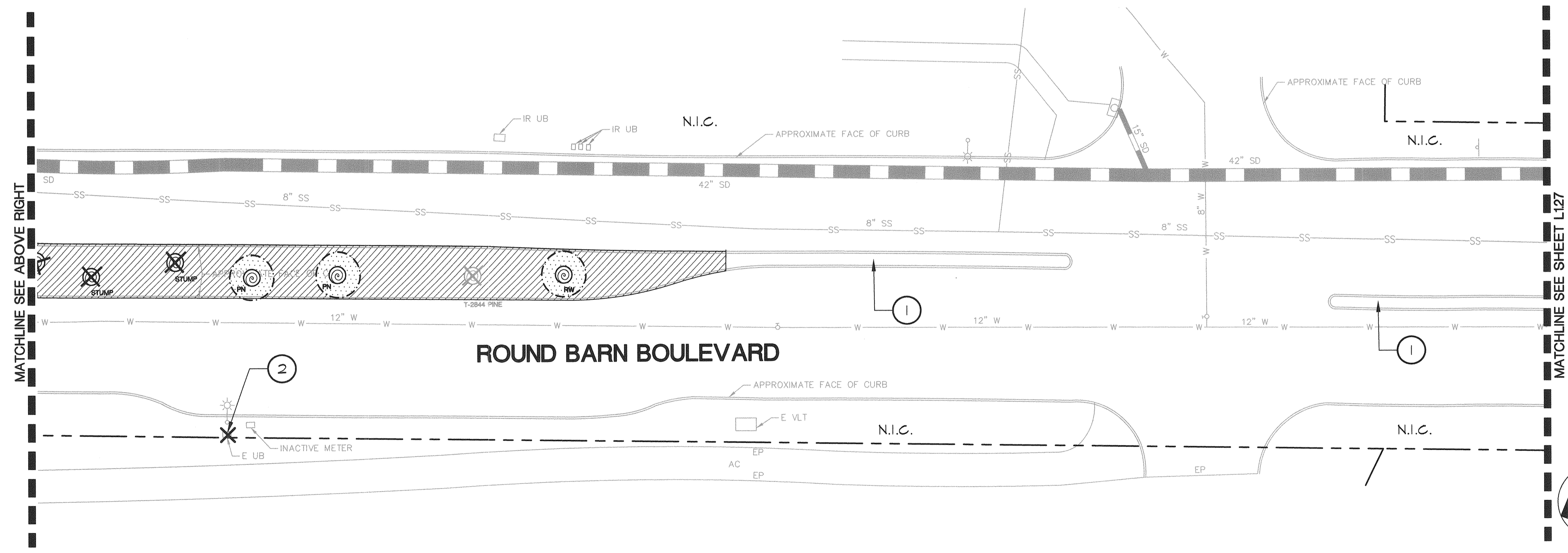
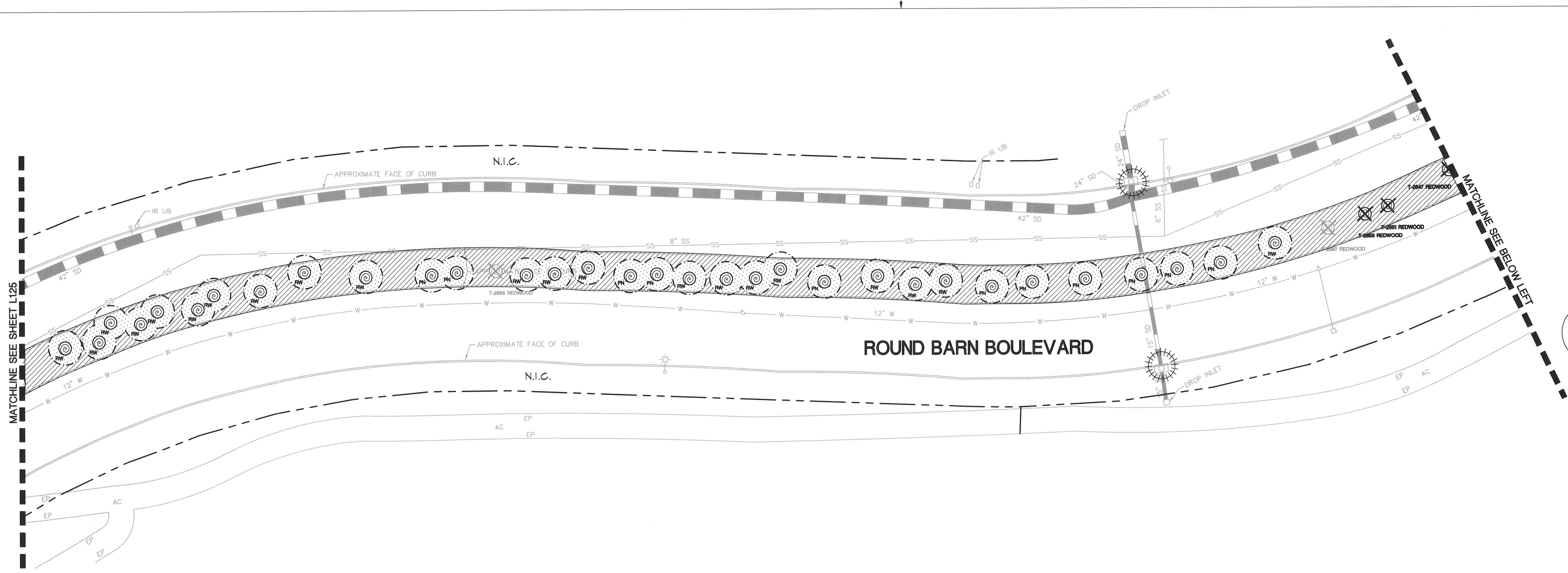
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SCALE: AS SHOWN	DATE: 05/14/2021
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CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING
DEMOLITION PLAN
CONTRACT NO. C02300
SHEET 30 OF 139
FILE NO. 2020-0011

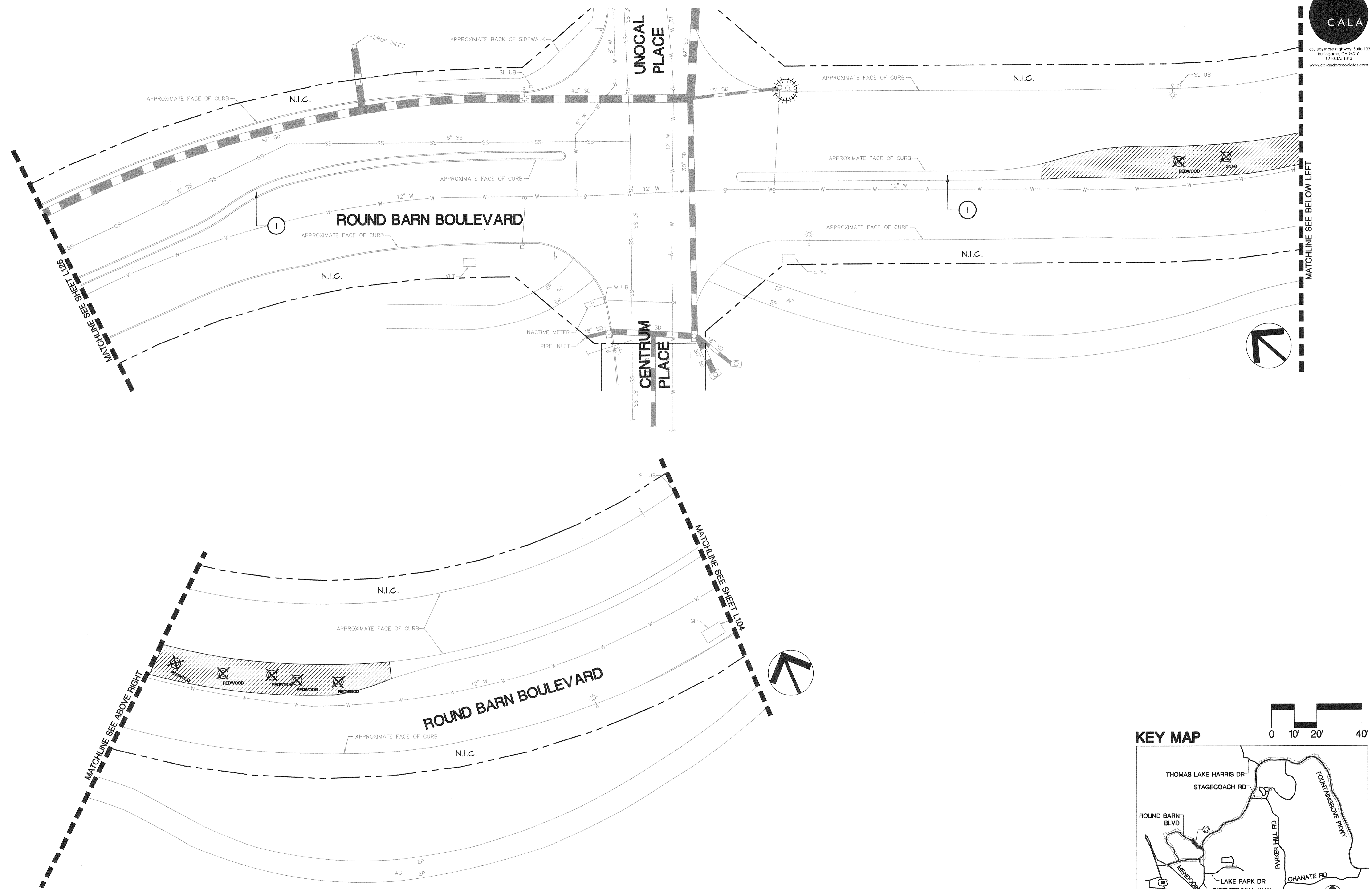


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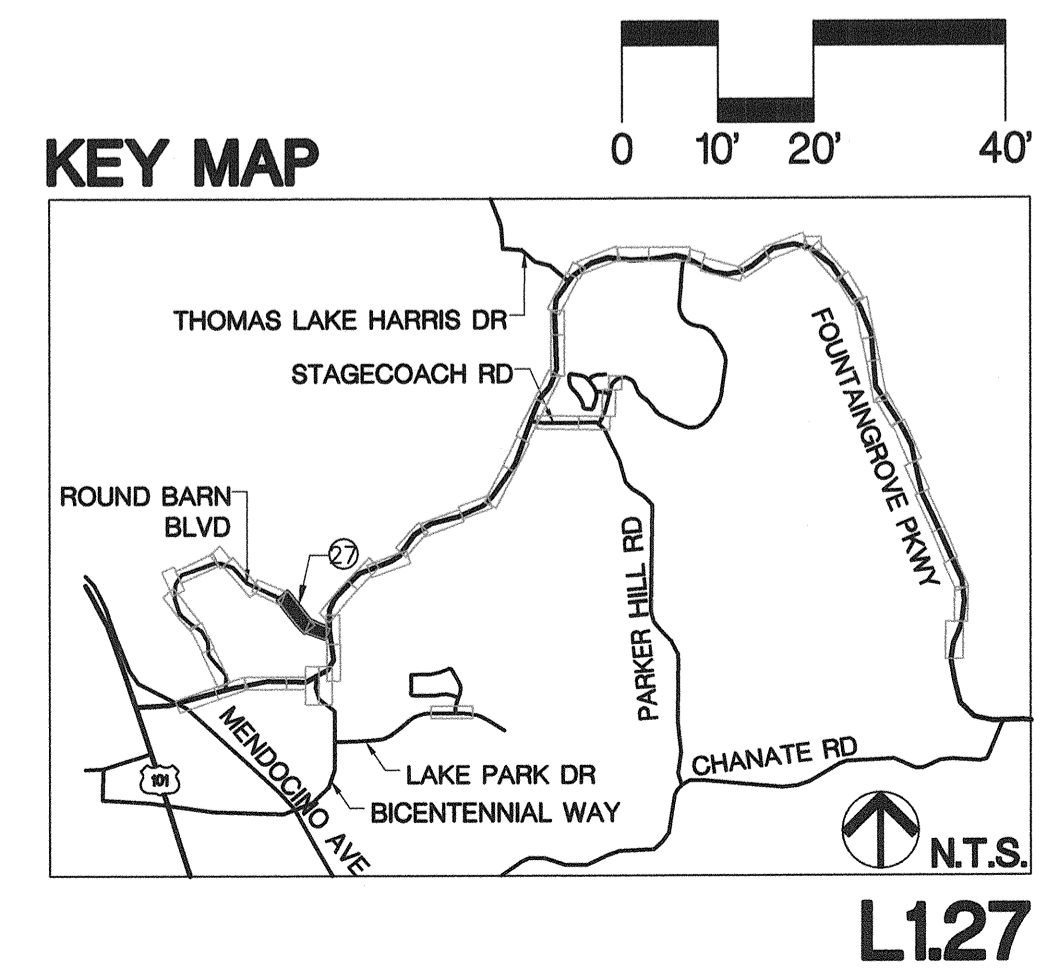
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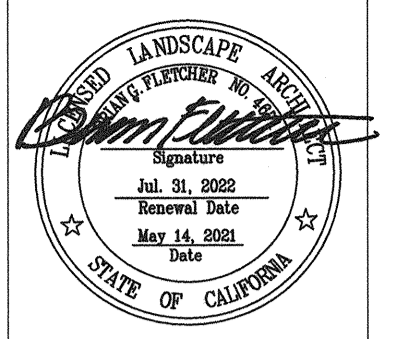
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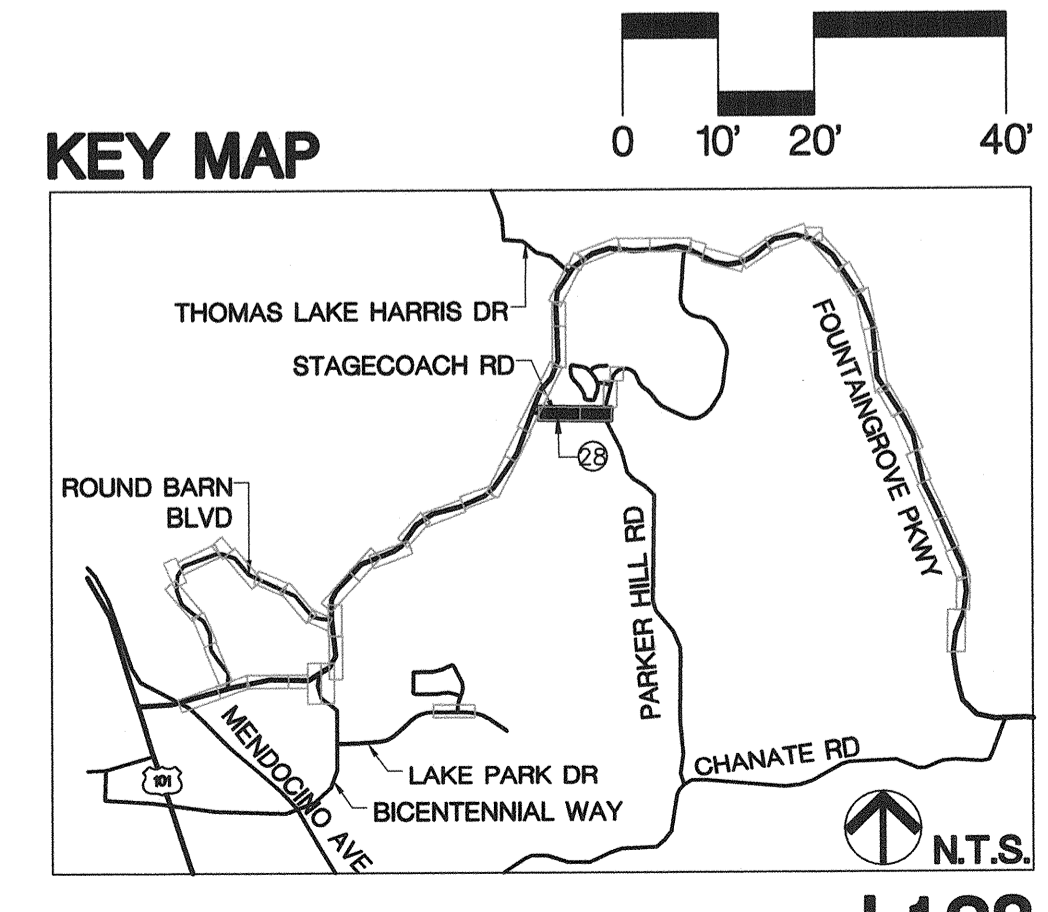
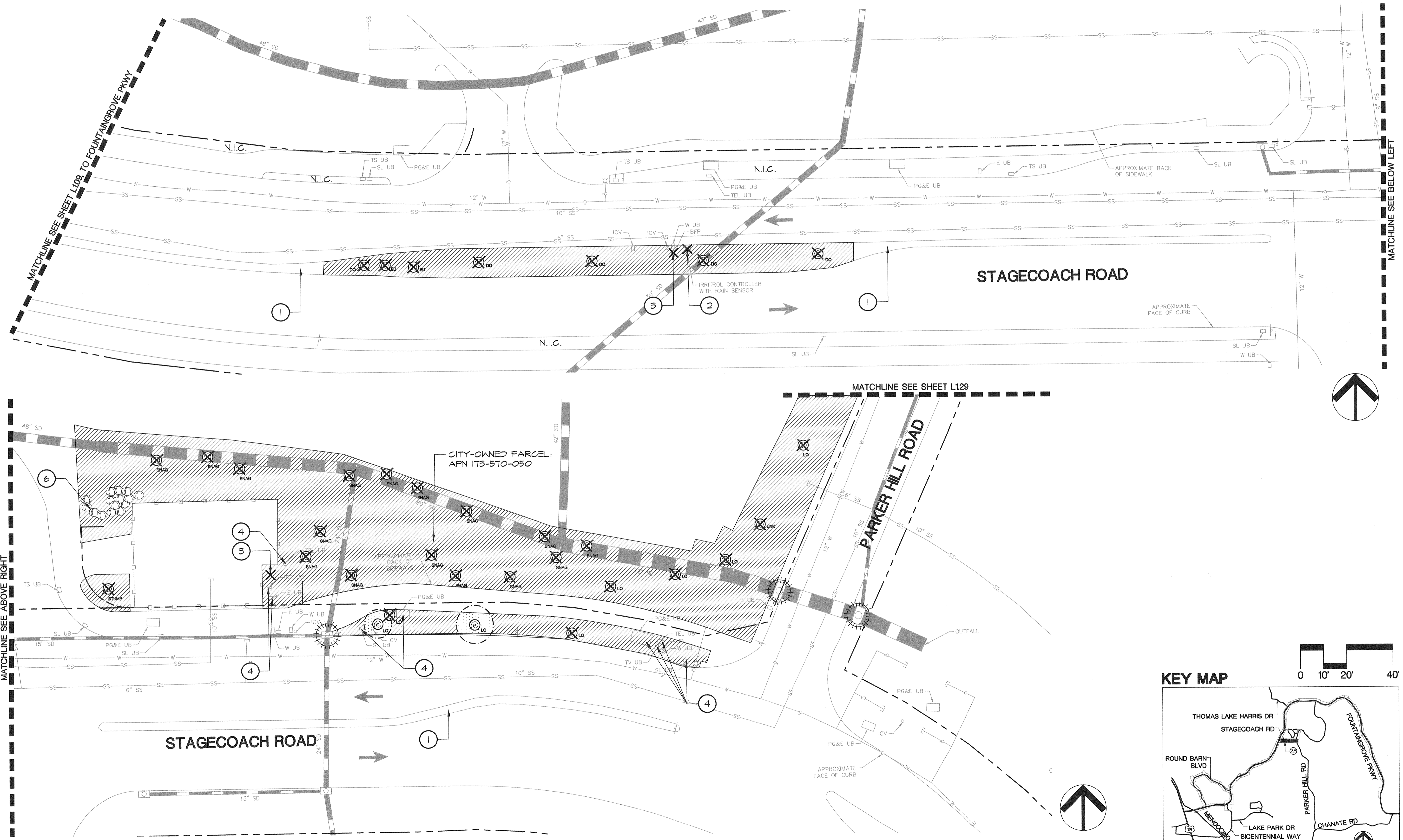
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SCALE: AS SHOWN	DATE: 05/14/2021
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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
DEMOLITION PLAN
 CONTRACT NO. C02300
 SHEET 31 OF 139
 FILE NO. 2020-0011

L127



**FOR DEMOLITION LEGEND AND NOTES
 SEE SHEET LN100**

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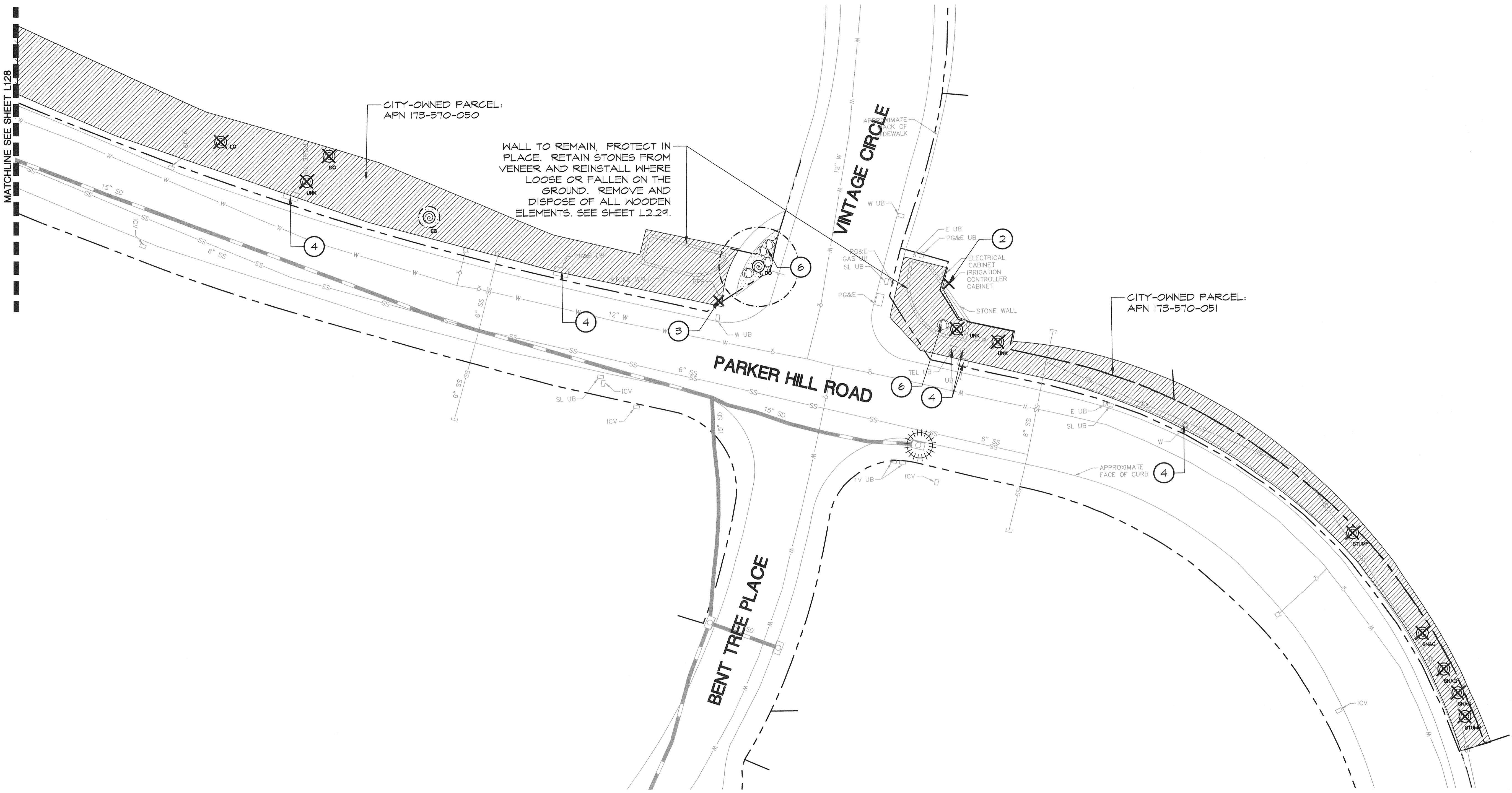
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
DEMOLITION PLAN
 CONTRACT NO. C02300
 SHEET 32 OF 139
 FILE NO. 2020-0011

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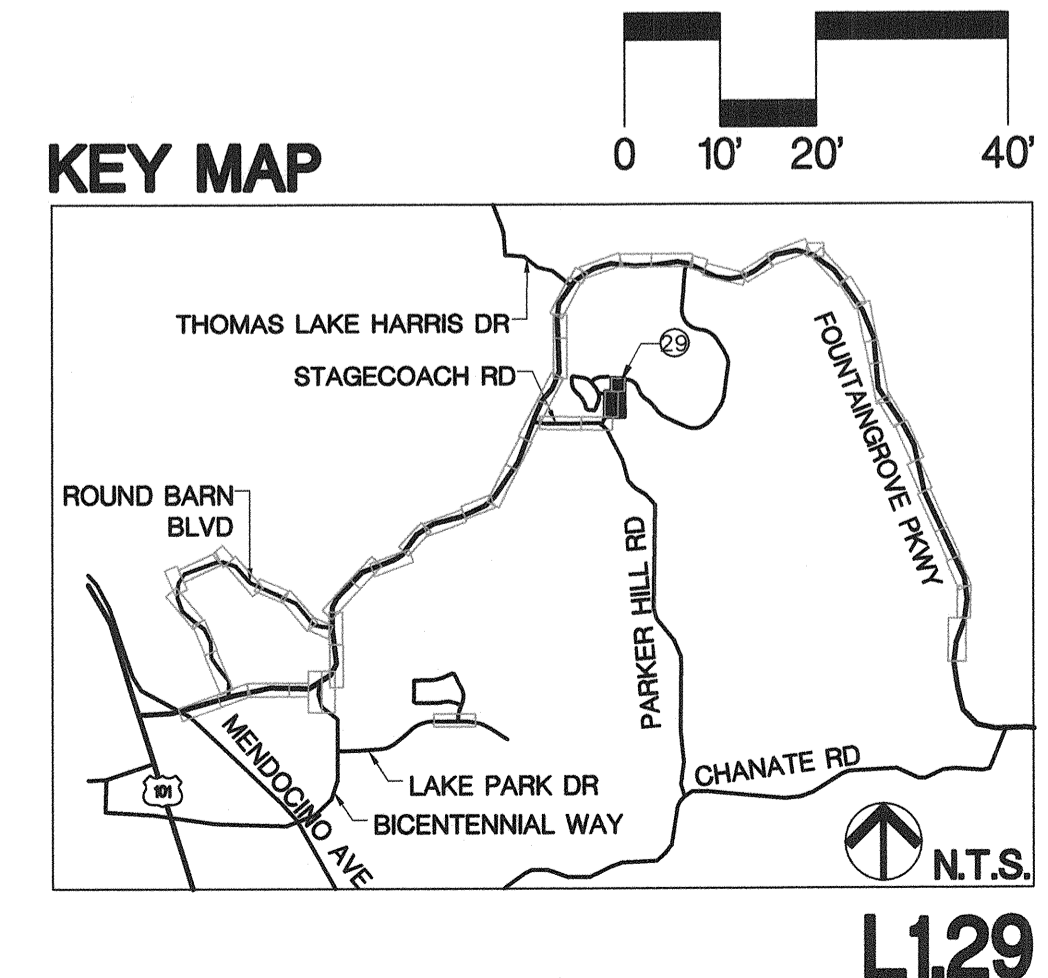
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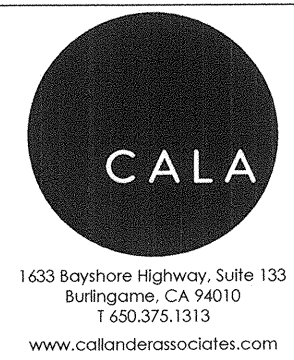
CITY OF SANTA ROSA	CONTRACT NO. C02300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 33 OF 139
DEMOLITION PLAN	FILE NO. 2020-0011



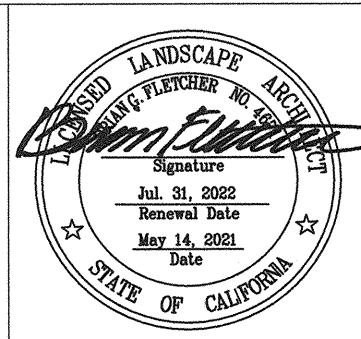
**FOR DEMOLITION LEGEND AND NOTES
 SEE SHEET LN1.00**



File Path: \\sdc\cal\lsm\work\projects\2021\Projects\19065_FireDamagedRoadway\3_ConstructionDocuments\19065_DM_LFC_23-30.dwg Plot Date: 5/11/21 10:57:17 AM
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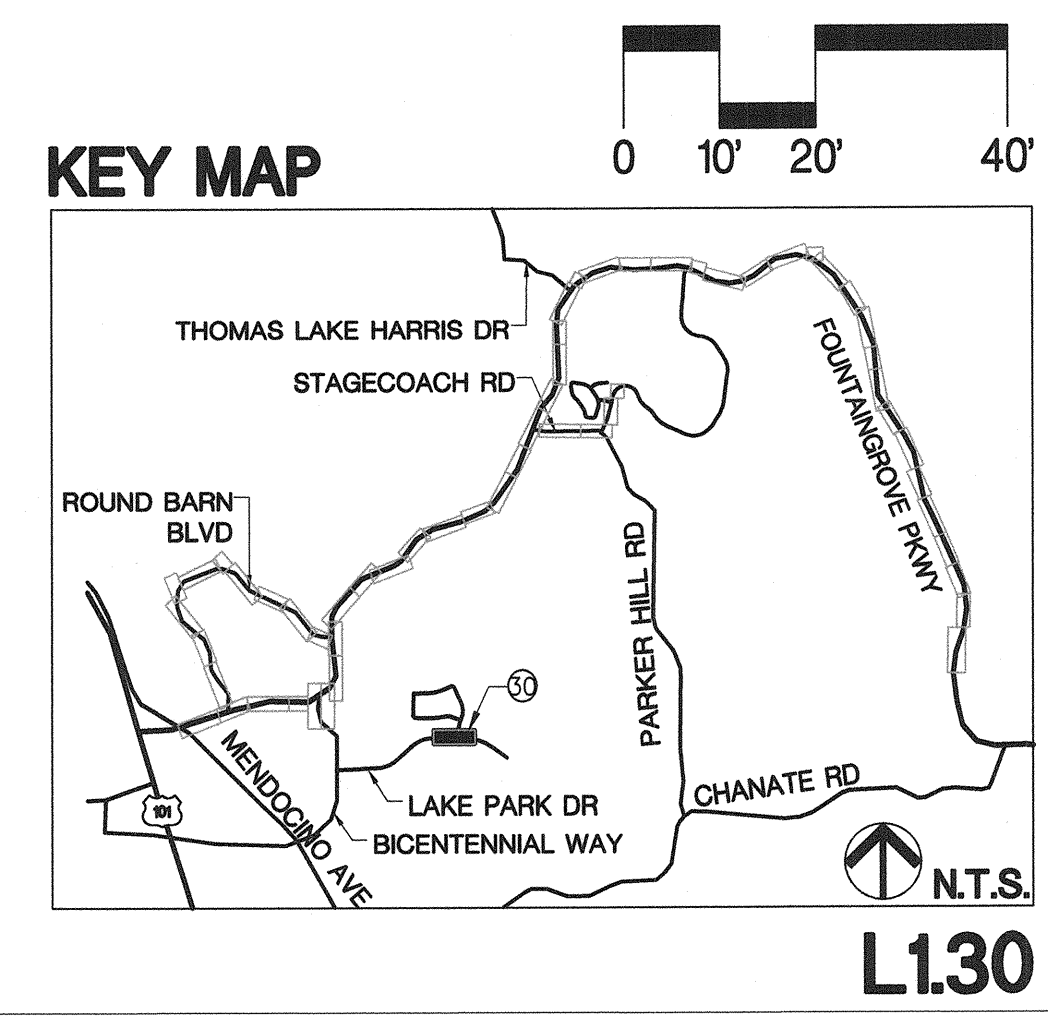
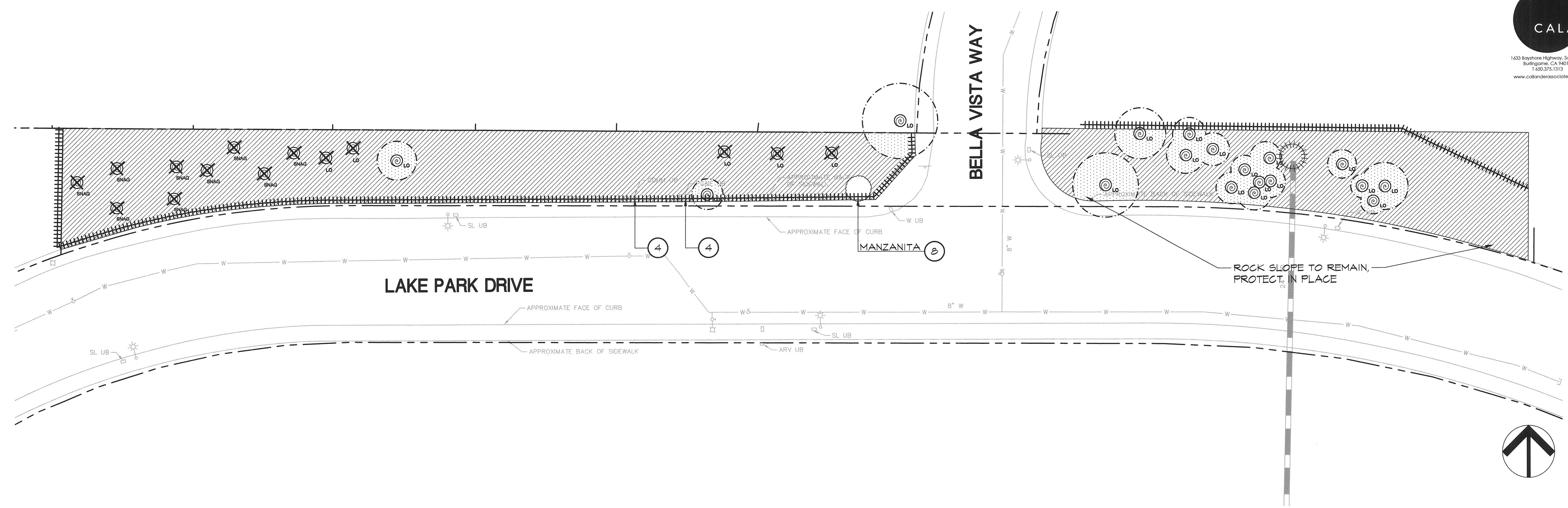


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DEMOLITION PLAN
CONTRACT NO. C02300
SHEET 34 OF 139
FILE NO. 2020-0011

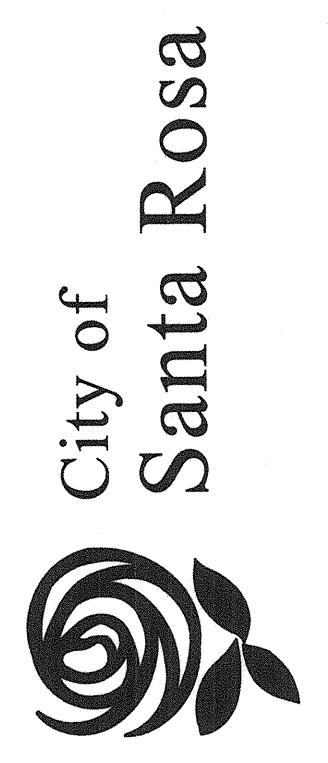
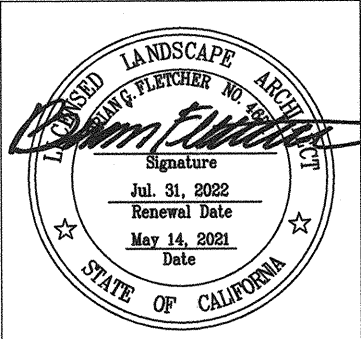


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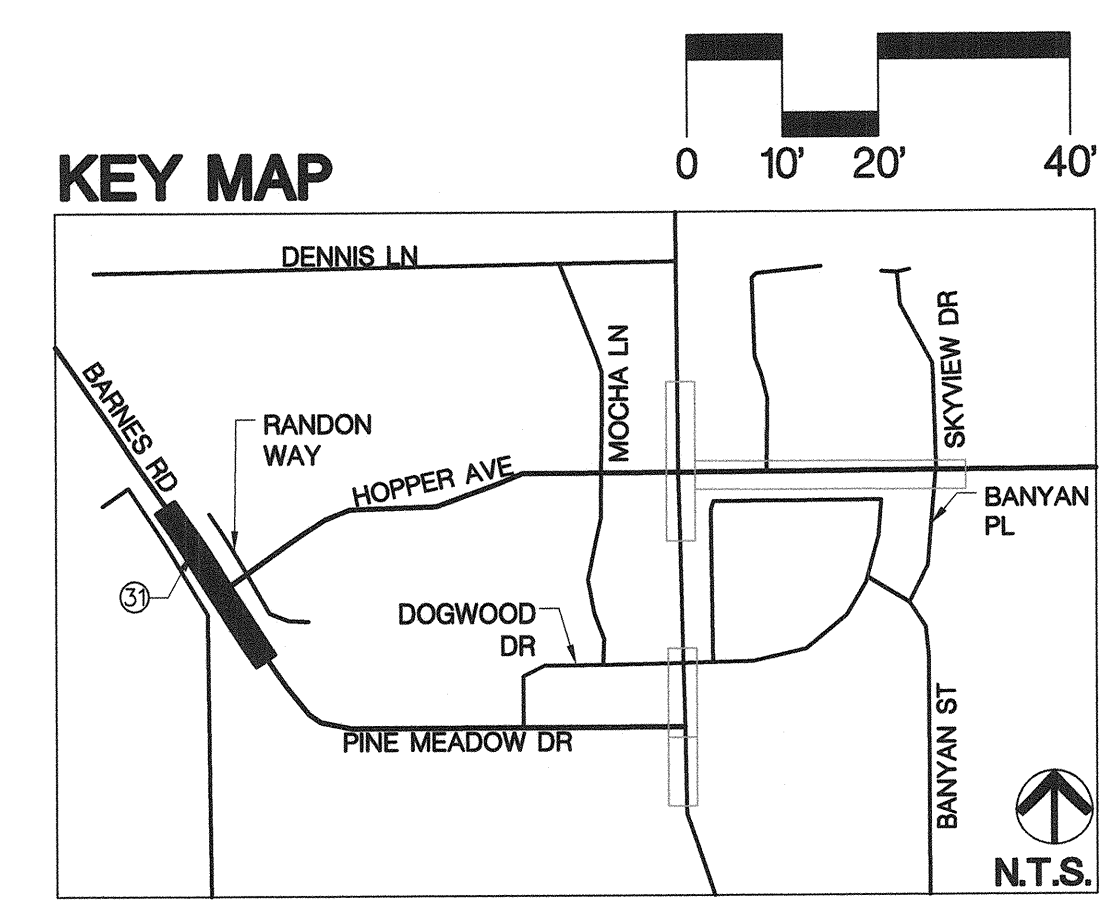
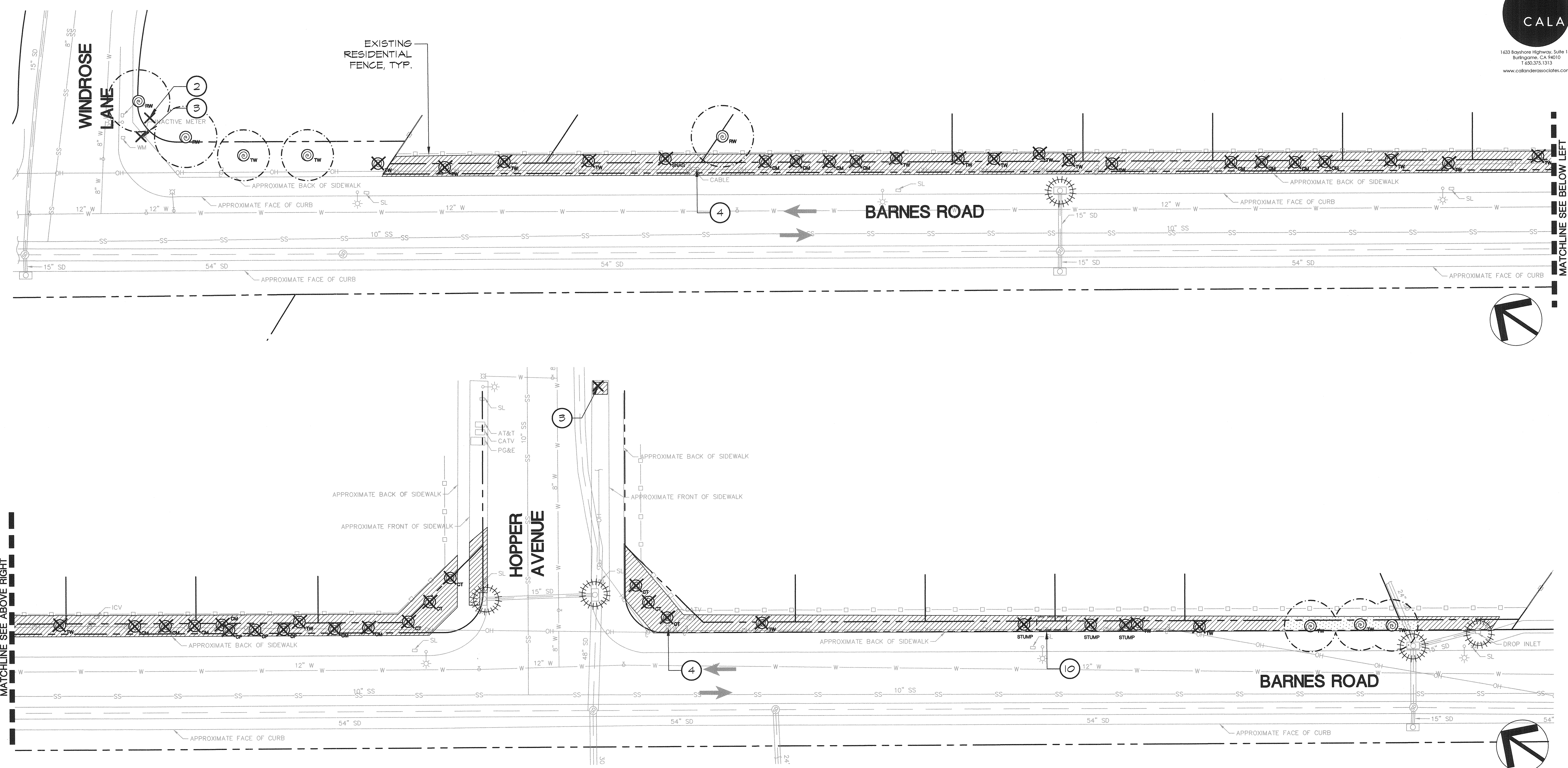
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DEMOLITION PLAN
CONTRACT NO. C02300
SHEET 35 OF 139
FILE NO. 2020-0011

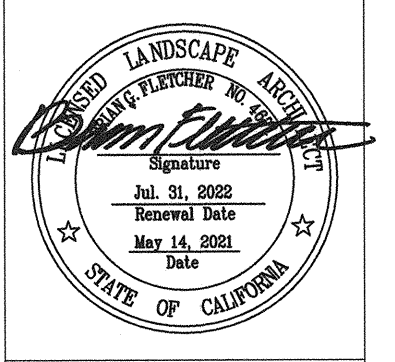


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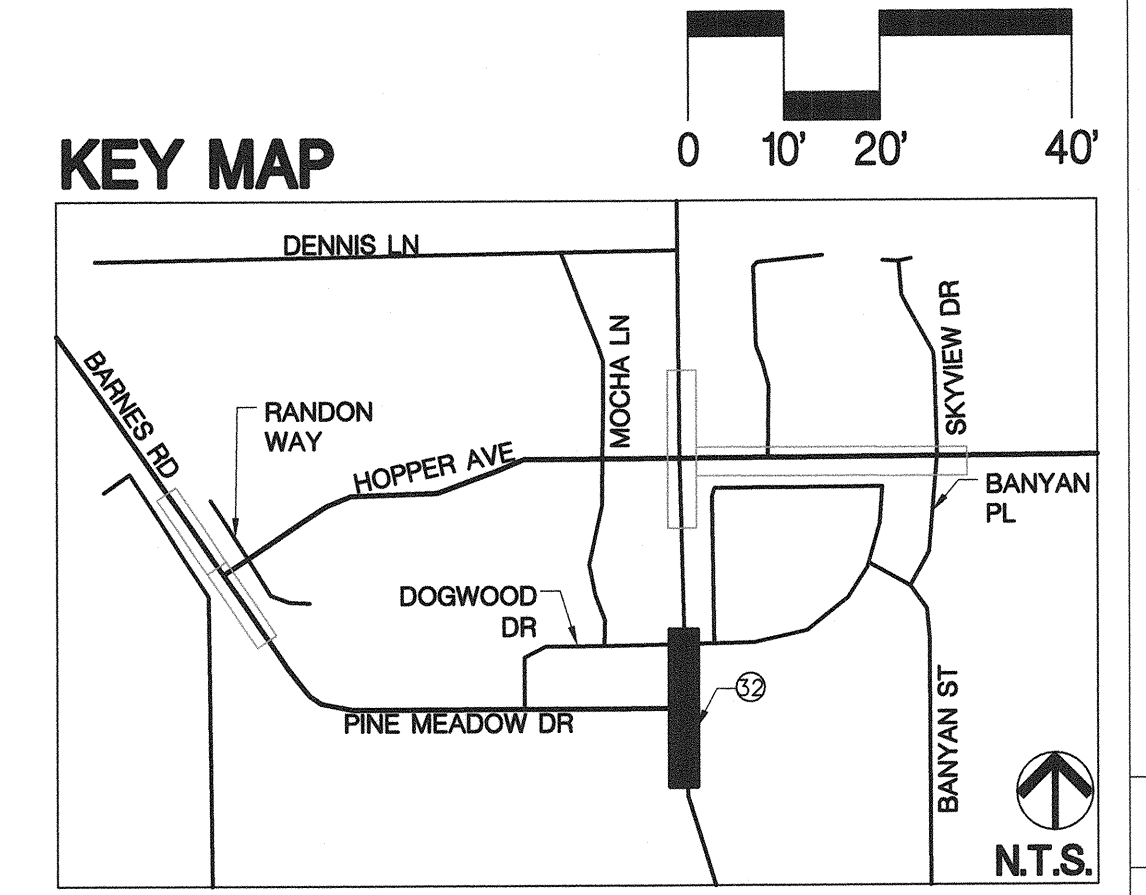
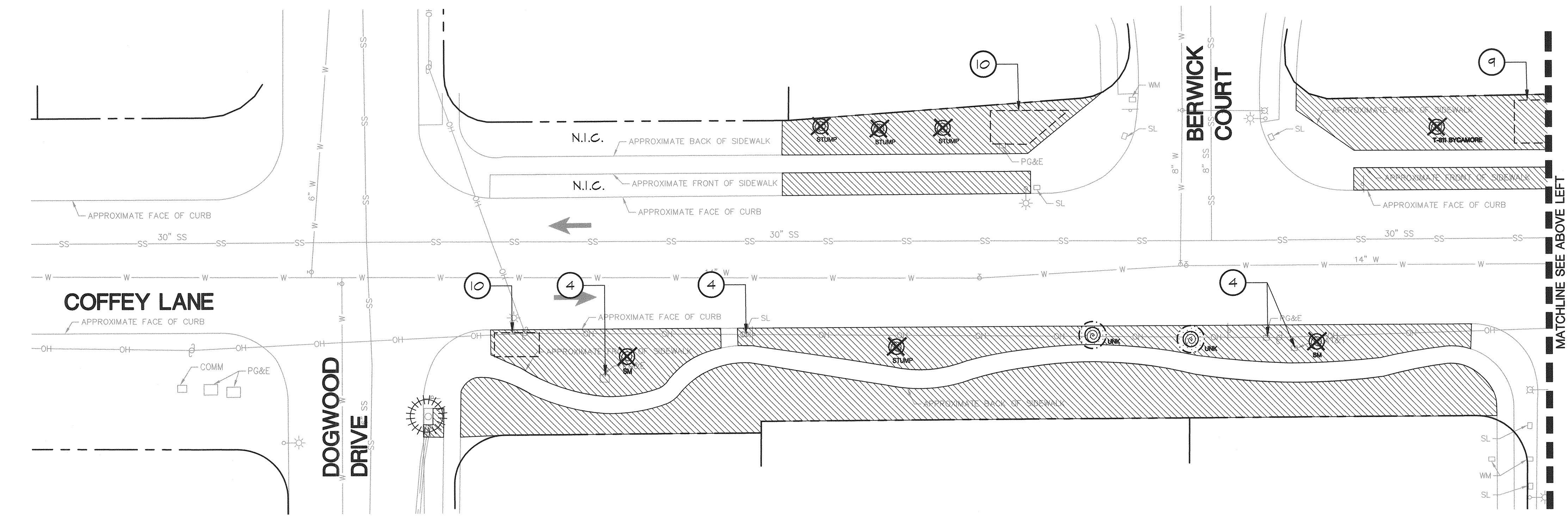
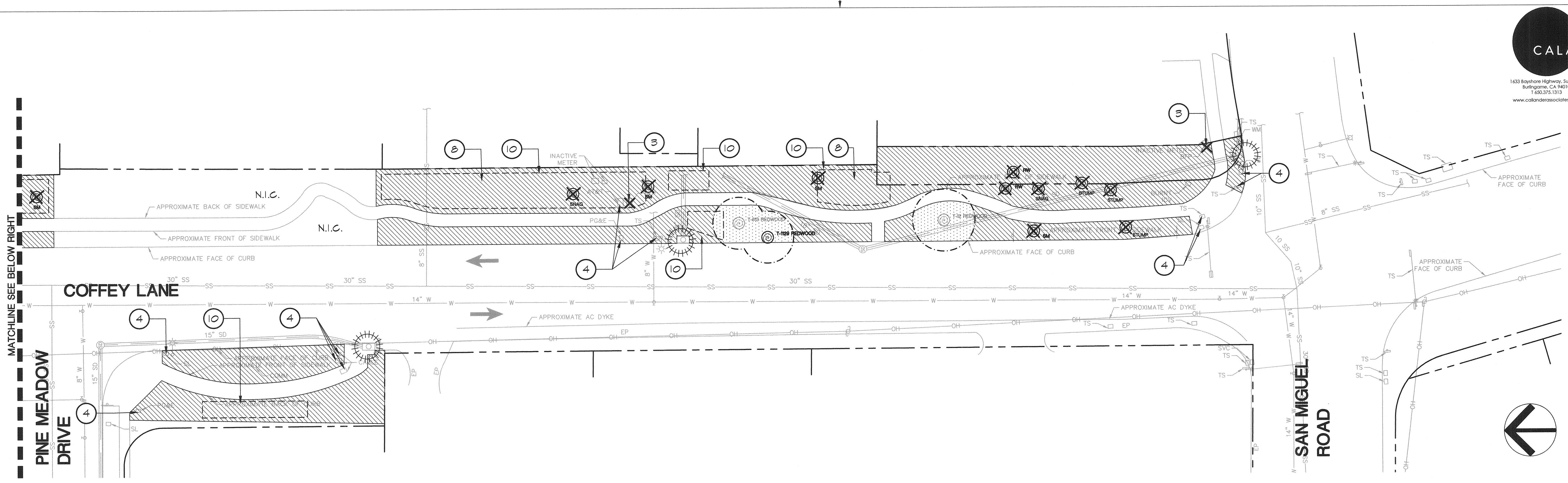
L1.31

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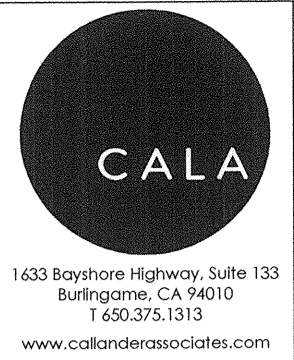
**CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
 DEMOLITION PLAN**

**CONTRACT NO.
 C02300**

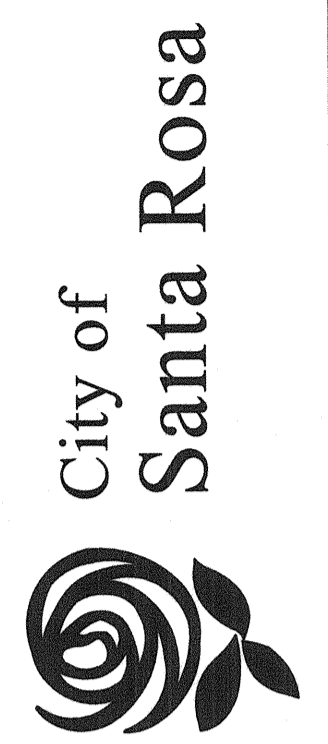
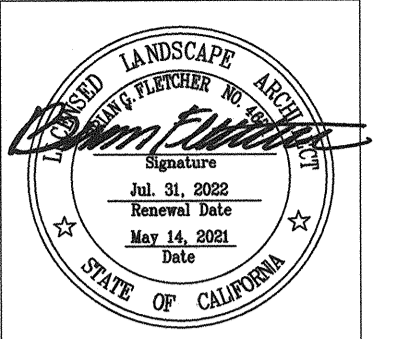
SHEET 36 OF 139

FILE NO. 2020-0011

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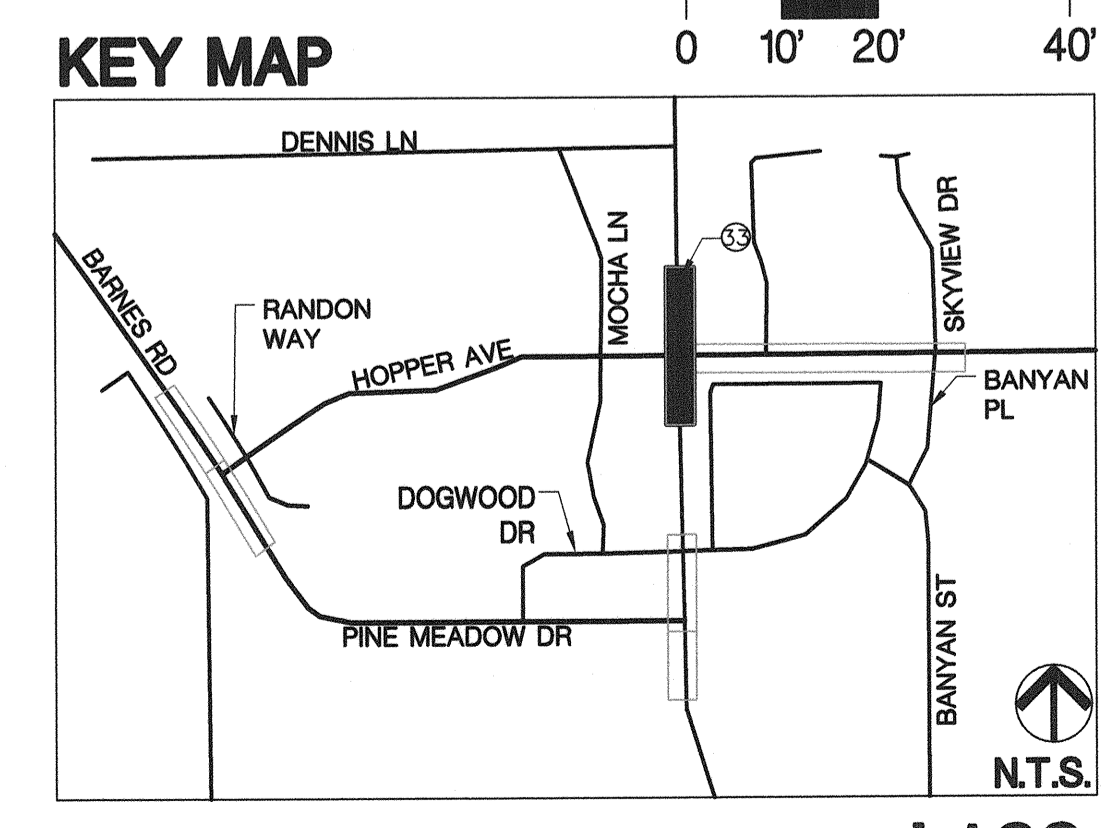
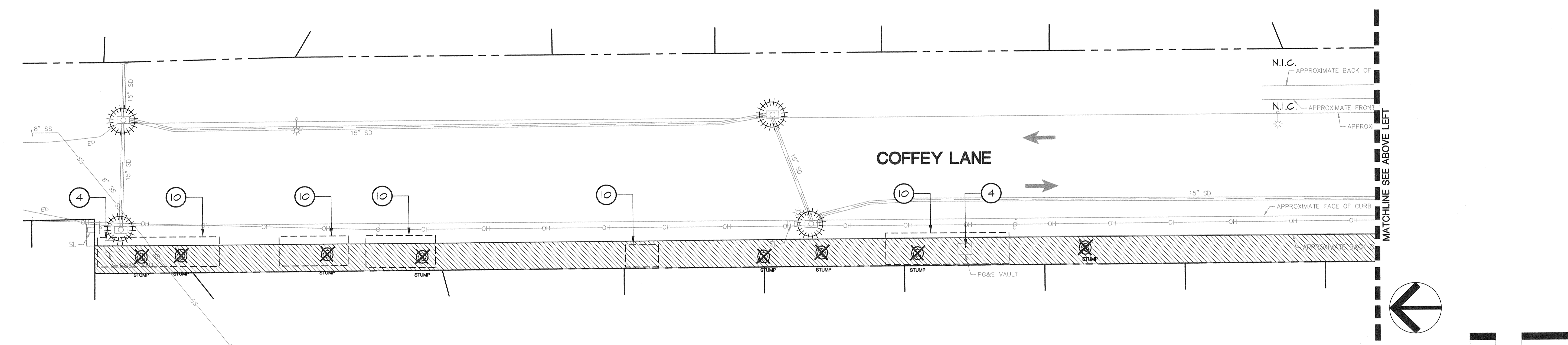
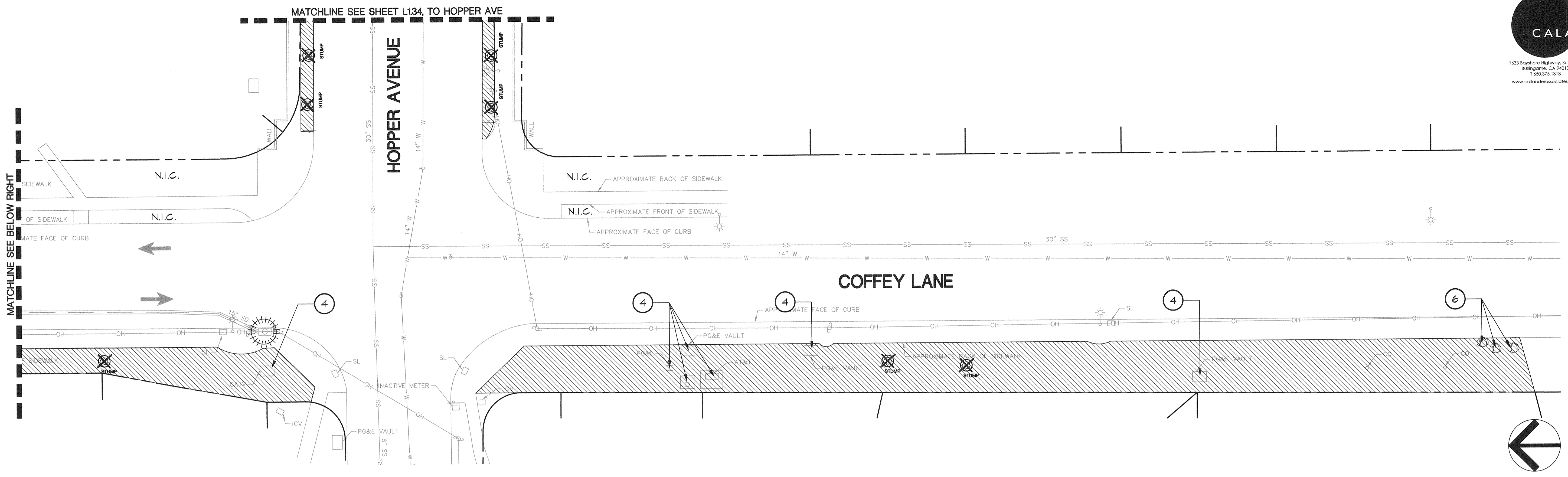
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DEMOLITION PLAN
CONTRACT NO. C02300
SHEET 37 OF 139
FILE NO. 2020-0011



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SEE SHEET LN1.00**

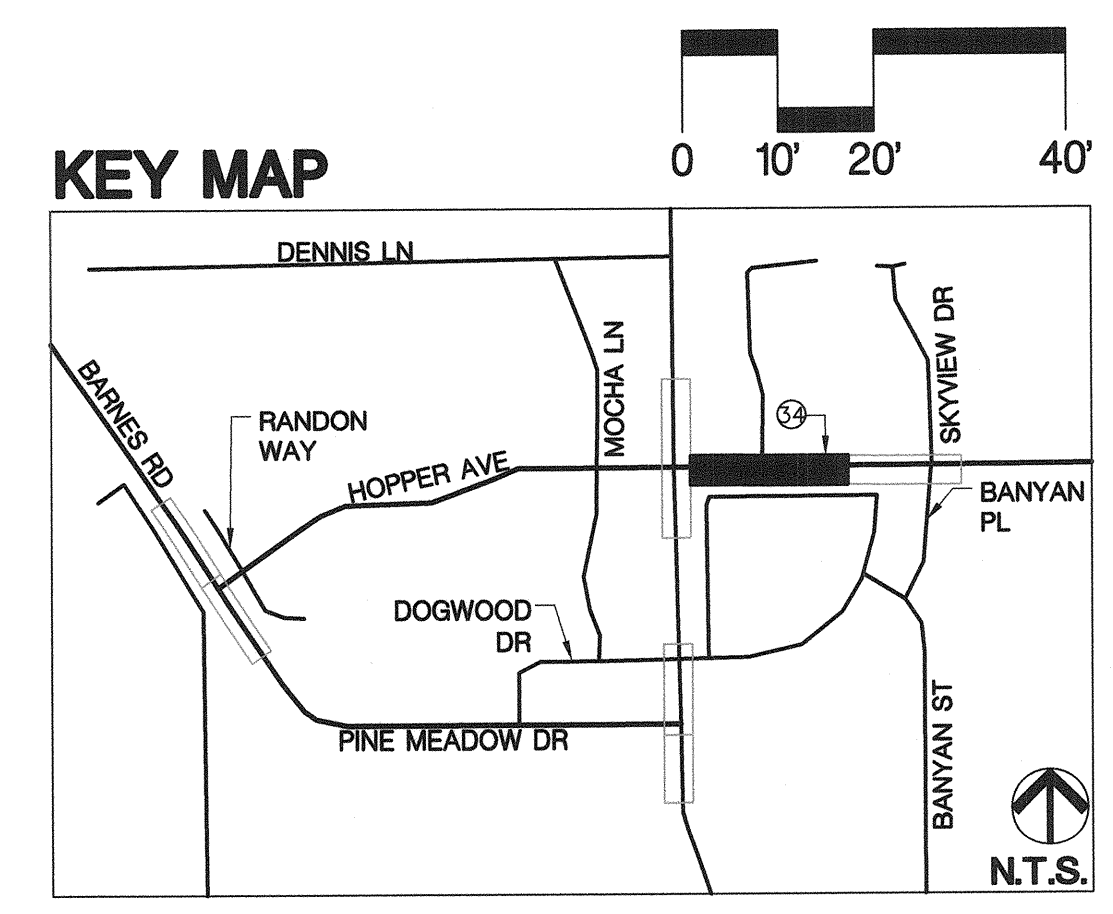
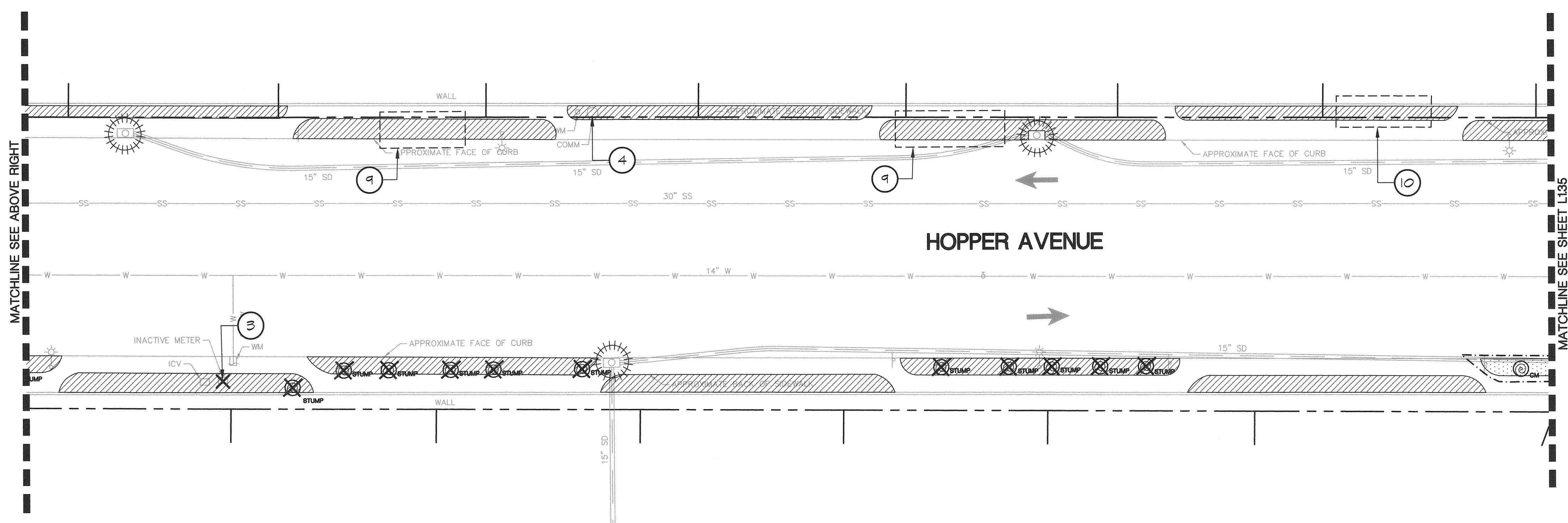
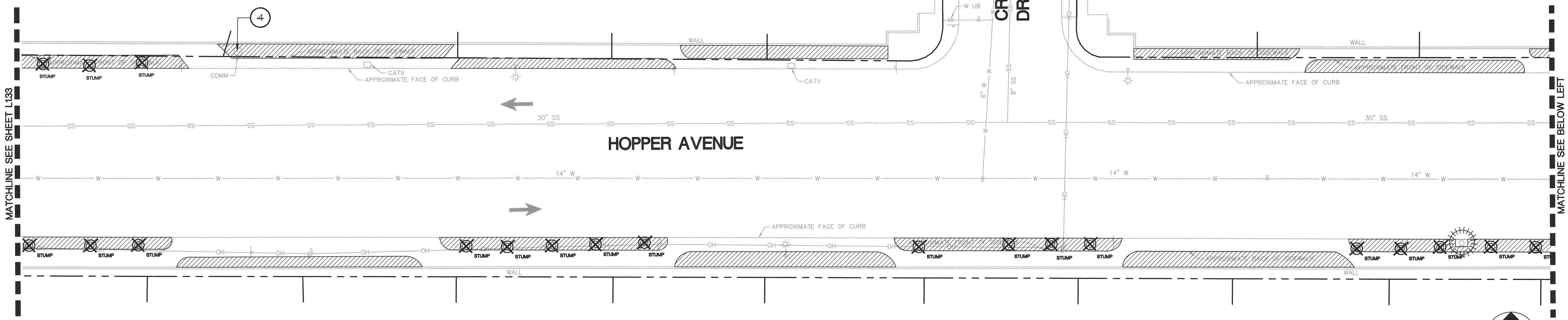
L1.33

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FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 38 OF 139
DEMOLITION PLAN	FILE NO. 2020-0011



**FOR DEMOLITION LEGEND AND NOTES
 SEE SHEET LN1.00**

L134

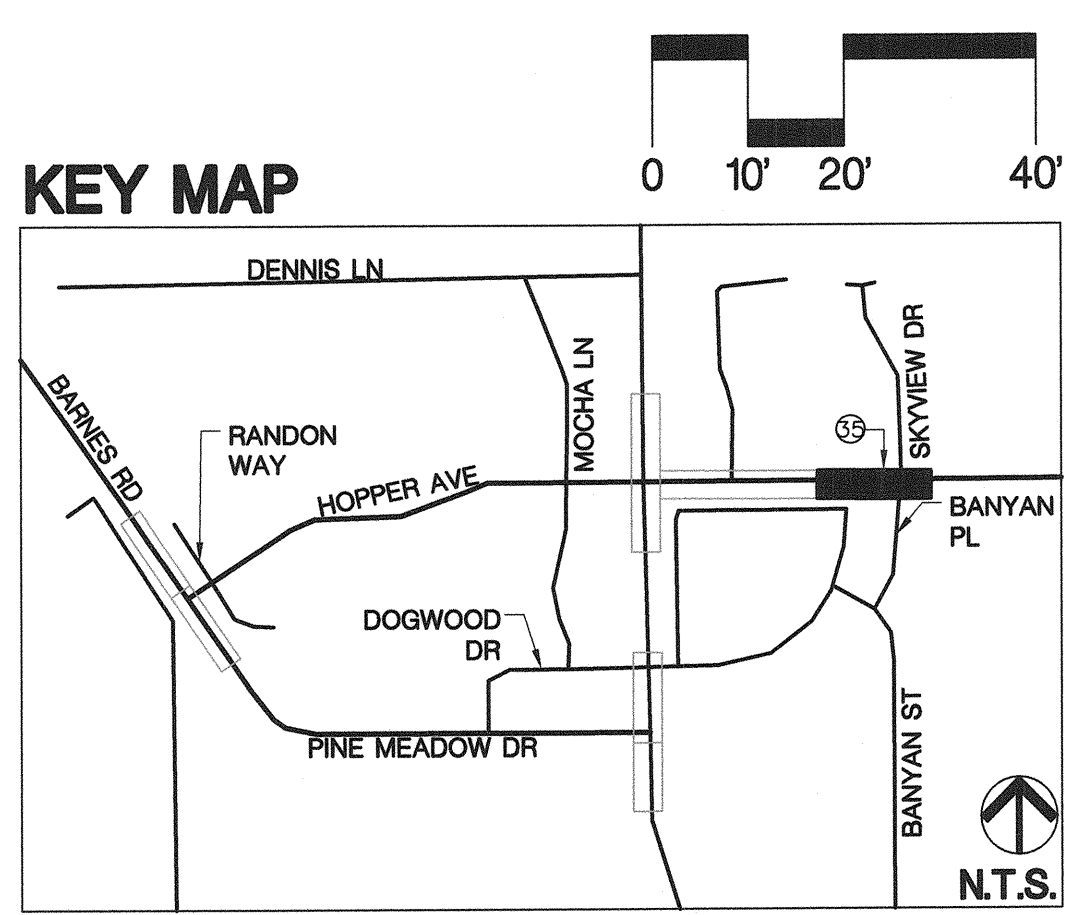
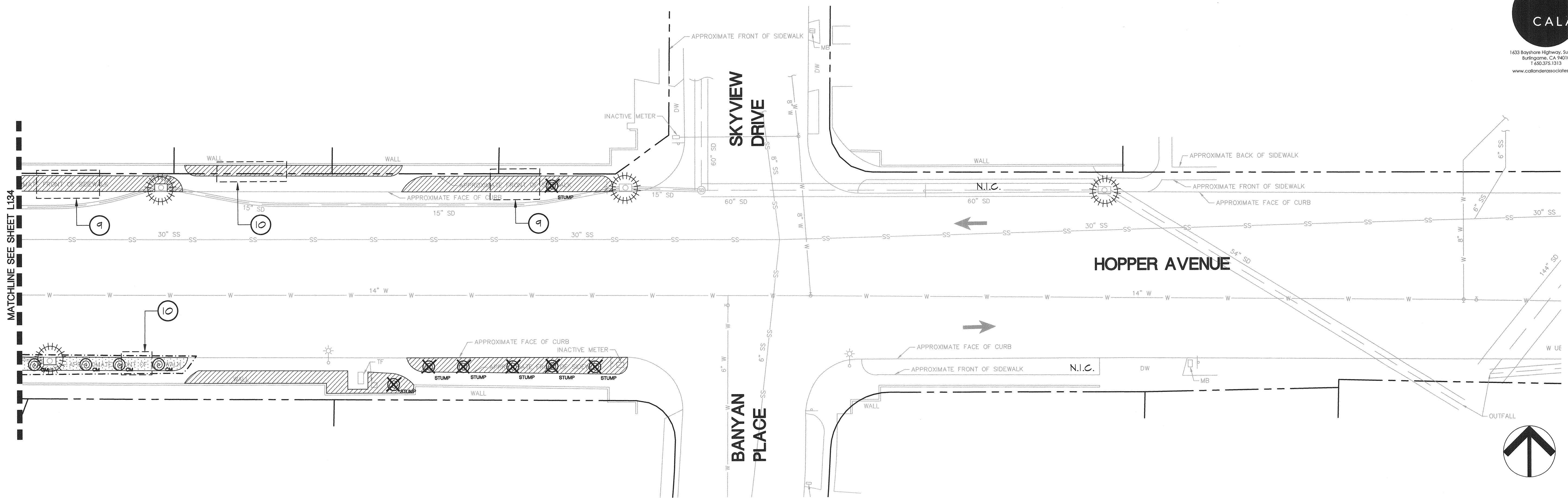
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FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 39 OF 139
DEMOLITION PLAN	FILE NO. 2020-0011

MATCHLINE SEE SHEET L134



**FOR DEMOLITION LEGEND AND NOTES
 SEE SHEET LN1.00**

L135

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LEGEND

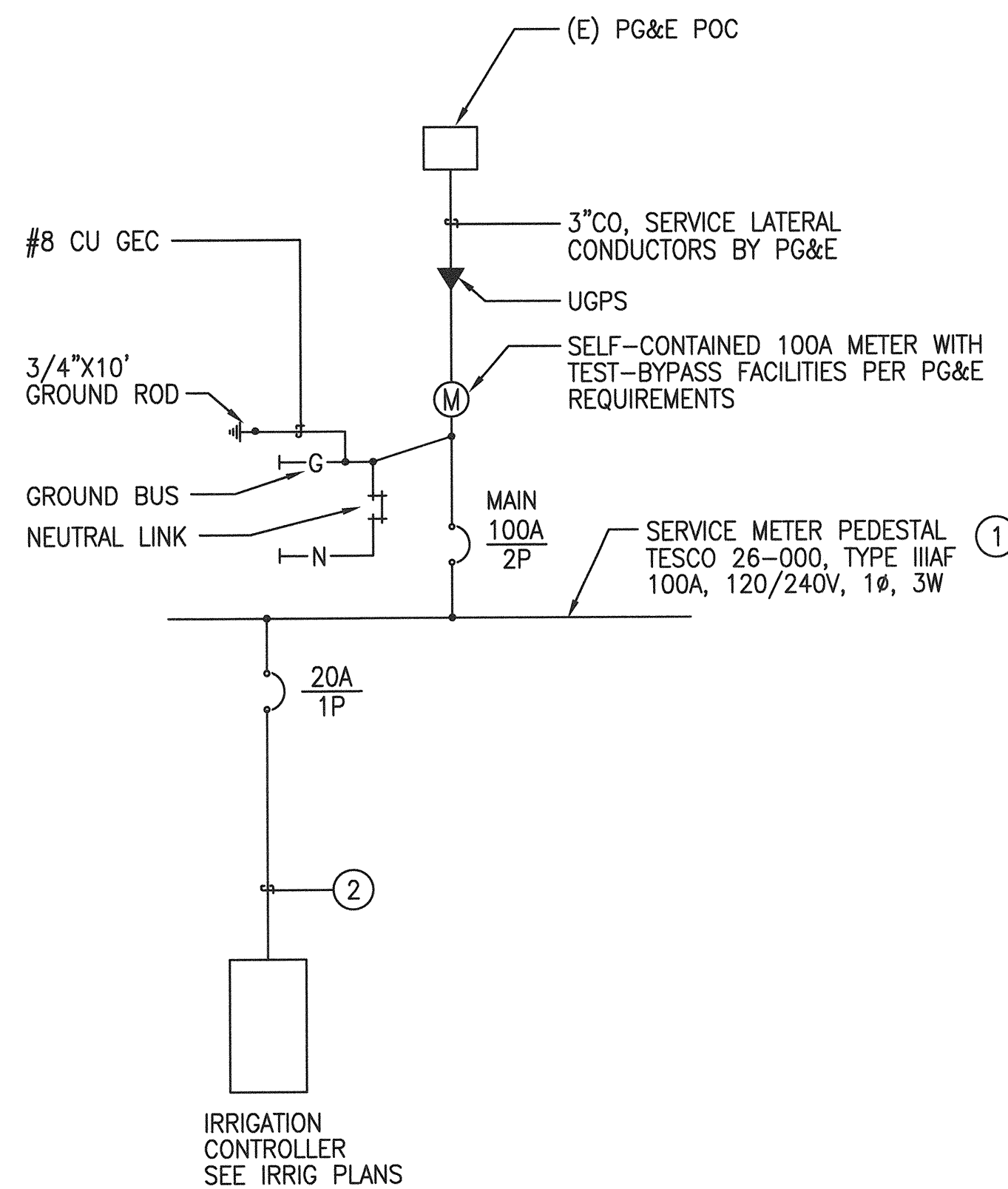
- CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND
- ELECTRICAL APPARATUS AND EQUIPMENT**
- CIRCUIT BREAKER
- FUSED DISCONNECT SWITCH
- GROUND TO EARTH
- UTILITY METER SOCKET
- UNDERGROUND TERMINATION POINT
- ELECTRIC PULLBOX, SIZE CHRISTY N9 MINIMUM
- SERVICE METER PEDESTAL
- DUPLEX RECEPTACLE, +15" AFF UON
- IRRIGATION CONTROLLER, SEE IRRIGATION PLANS
- BOOSTER PUMP, SEE IRRIGATION PLANS

TAGS

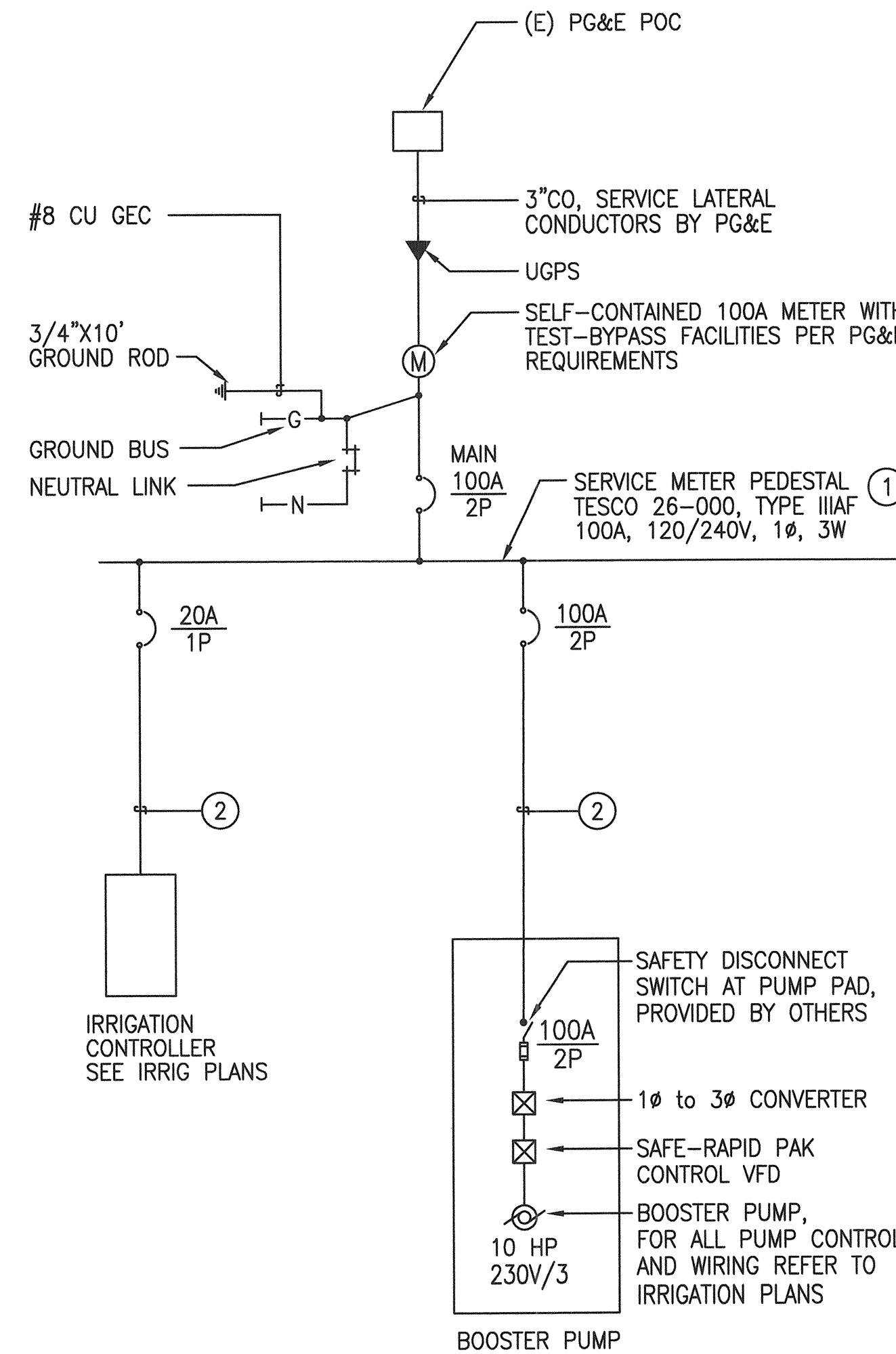
- ① SHEET NOTE TAG, NOTE 1
- DETAIL TAG
e.g., 1 IS THE DETAIL NUMBER
E1.1 IS THE SHEET NUMBER

ABBREVIATIONS

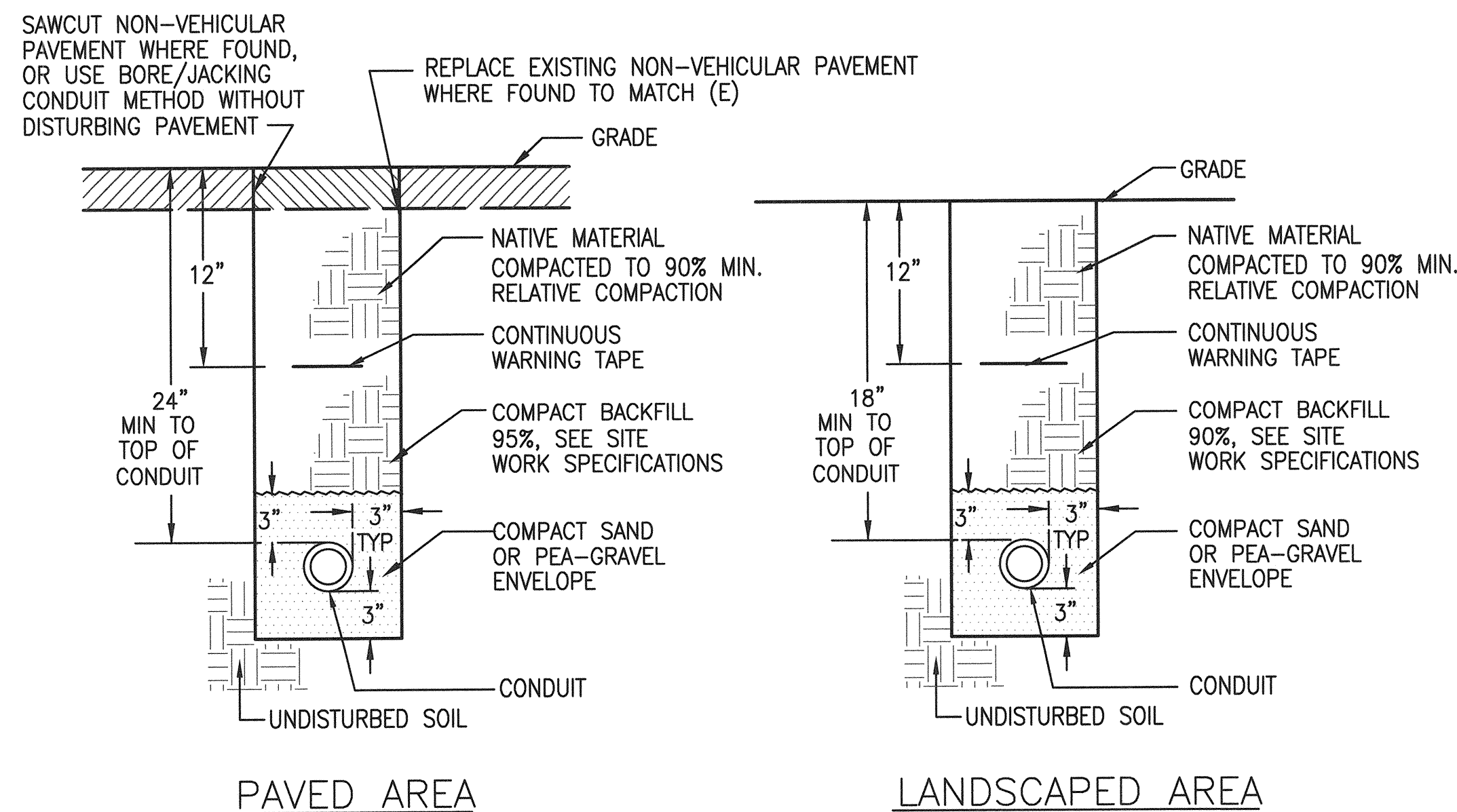
- A AMPERE
- AFG ABOVE FINISHED GRADE
- AWG AMERICAN WIRE GAUGE
- BP BOOSTER PUMP
- C CONDUIT
- CB CIRCUIT BREAKER
- CO CONDUIT ONLY
- CKT CIRCUIT
- CL CENTERLINE
- CU COPPER
- (E) EXISTING TO REMAIN
- EGC EQUIPMENT GROUNDING CONDUCTOR
- G, GND GROUND
- GEC GROUNDING ELECTRODE CONDUCTOR
- HP HORSEPOWER
- IRRIG IRRIGATION
- IC IRRIGATION CONTROLLER
- JP JOINT POLE
- KCMIL KILO CIRCULAR MIL (AREA OF CROSS SECTION OF WIRE)
- LTG LIGHTING
- (N) NEW
- NTS NOT TO SCALE
- (R) EXISTING TO BE REMOVED
- (RL) RELOCATED EXISTING
- PB PULLBOX
- PCC PORTLAND CEMENT CONCRETE
- POC POINT OF CONNECTION
- PVC POLYVINYLCHLORIDE
- SL STREET LIGHT
- SLD SEE LANDSCAPE DRAWINGS
- TBD TO BE DETERMINED
- TS TIMSWITCH
- TYP TYPICAL
- UON UNLESS OTHERWISE NOTED
- V VOLT
- W WATT
- WP WEATHERPROOF



**① CITY MAINTAINED
PEDESTALS 'A', 'B', 'G2' & 'H'
SINGLE LINE DIAGRAM**



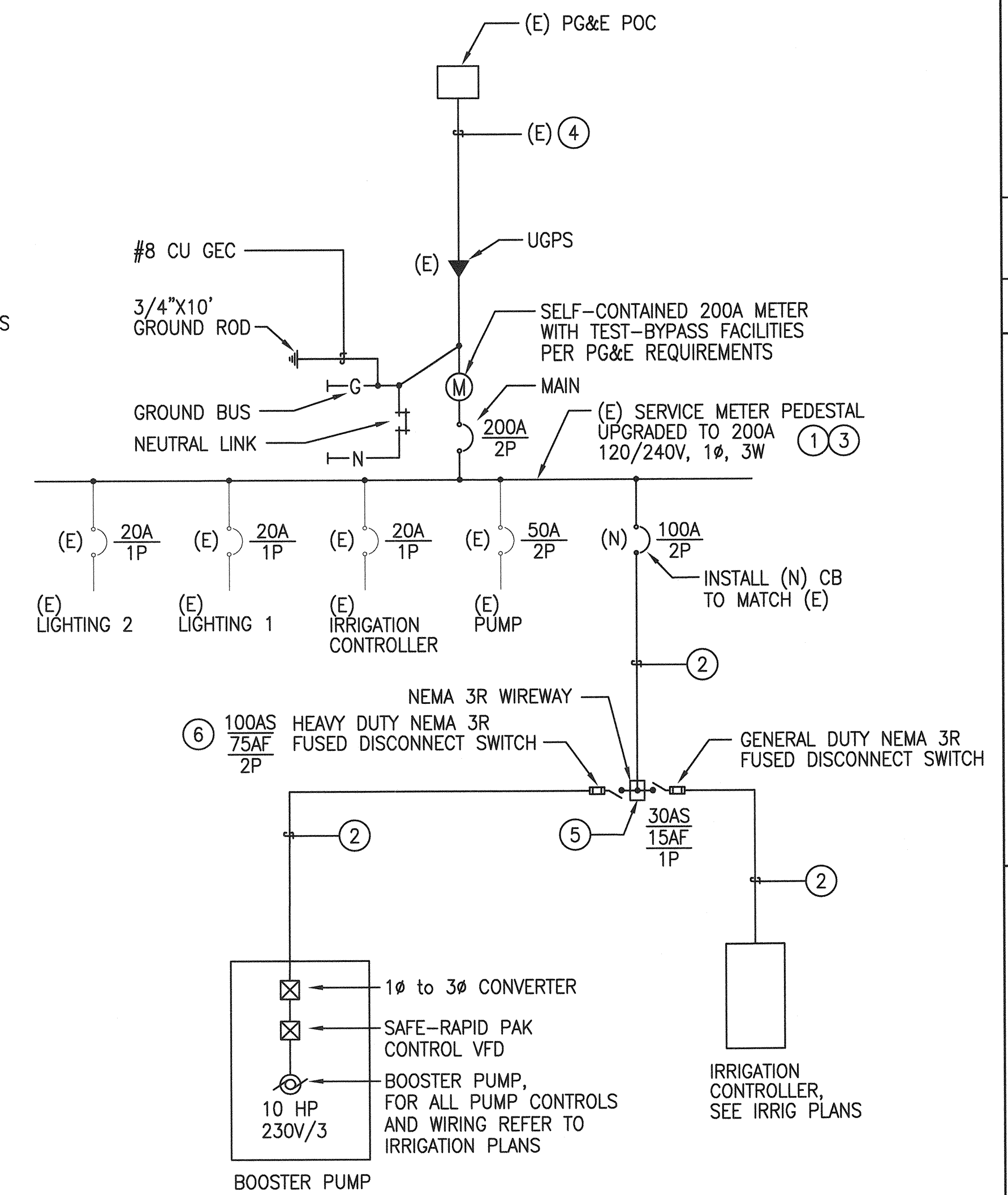
**② CITY MAINTAINED
PEDESTALS 'I1', 'J1', 'K1'
SINGLE LINE DIAGRAM**



**③ TRENCH DETAILS
SCALE: NTS**

SHEET NOTES:

- ① SHORT CIRCUIT CURRENT RATING SHALL BE VERIFIED WITH PG&E PRIOR TO ORDERING EQUIPMENT
- ② SEE ELECTRICAL SITE PLAN FOR CONDUIT AND WIRE SIZES
- ③ PEDESTAL TO BE UPGRADED FROM 100A/2P TO 200A/2P INCLUDING REPLACEMENT OF METER AND MAIN CIRCUIT BREAKER. REPLACEMENT WORK AND INSTALLATION OF (N) 100A/2P CB TO BE DONE BY TESCO
- ④ CONTRACTOR SHALL ALLOW COORDINATION TIME FOR PG&E TO REPLACE SERVICE LATERAL CONDUCTORS TO METER PEDESTAL
- ⑤ WIREWAY & SWITCHES TO BE SUPPORTED ON UNISTRUT SUPPORT FRAME WITH CONCRETE BASE
- ⑥ FUSE TO BE BUSSMAN 75 AMP DUAL ELEMENT CLASS RK5



**④ RINCON PARK
CITY MAINTAINED
PEDESTAL 'L1'
SINGLE LINE DIAGRAM**

VOLTAGE DROP CALCULATION	
DIST.	420'
LOAD	50A
AWG	#1
VD%	3.3%

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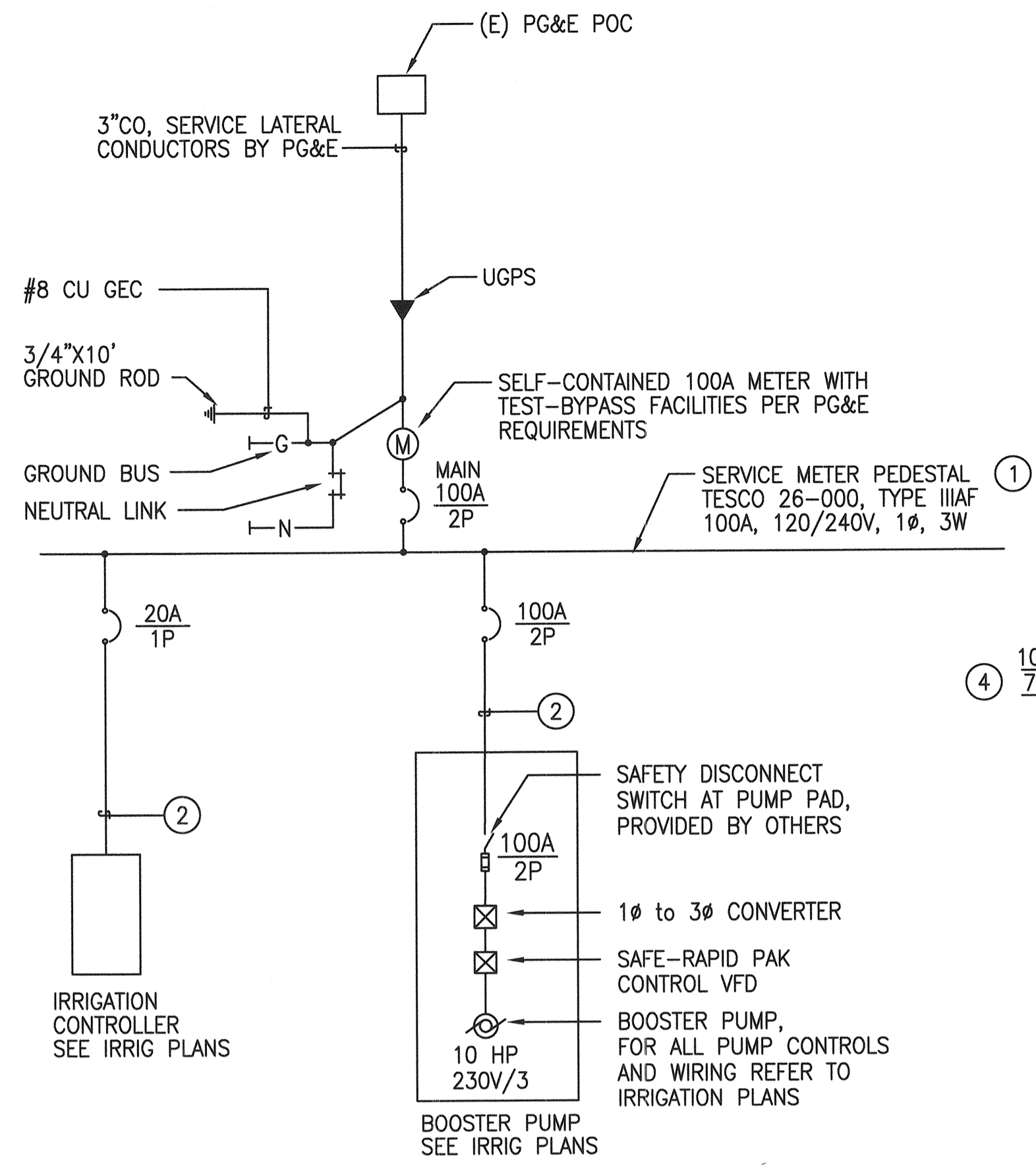
DATE: 5/7/2021
CHK BY: RZ

SCALE: AS SHOWN
DWN BY: AG

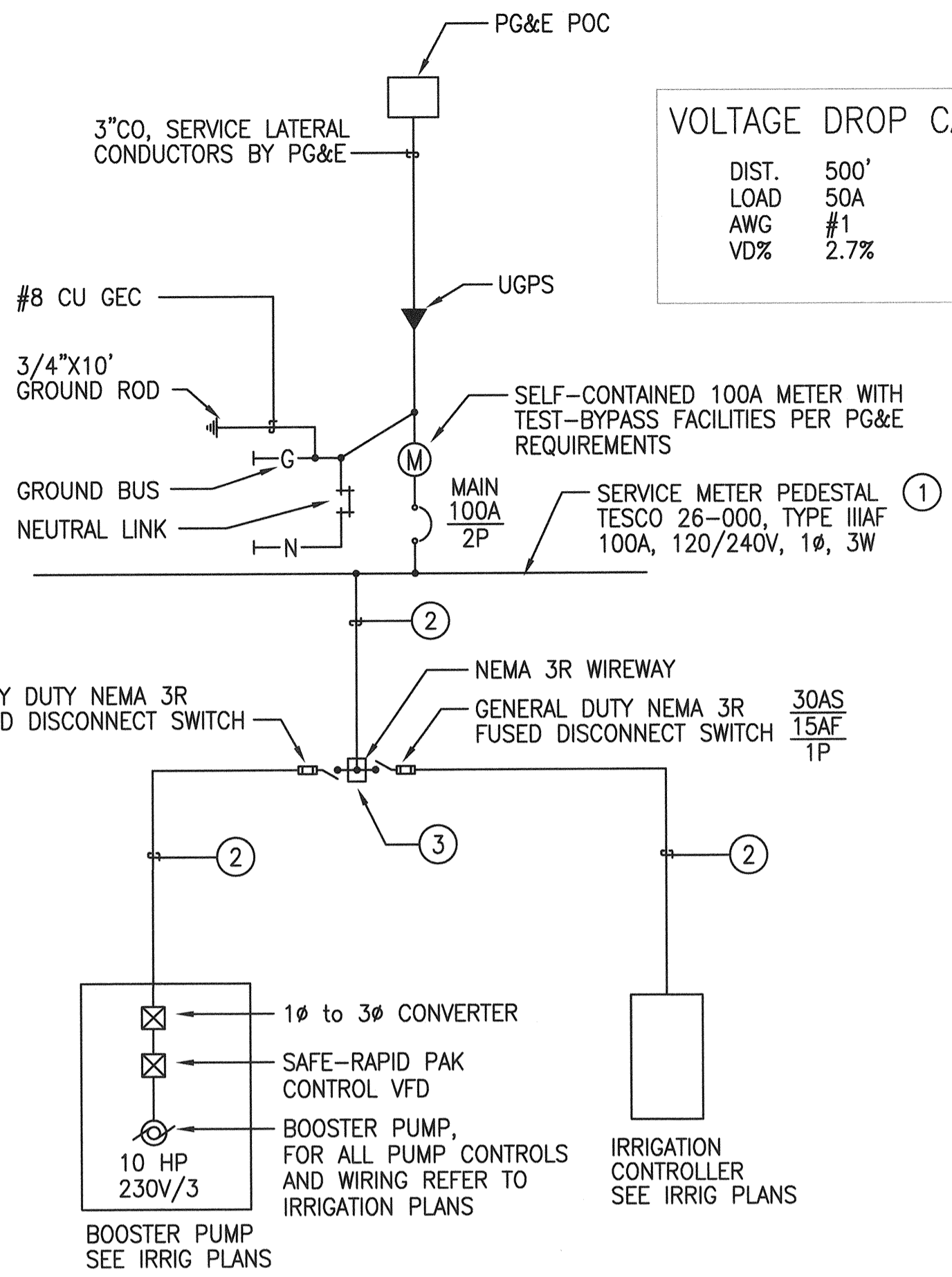
NO.	DATE	REVISION	BY

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CITY OF SANTA ROSA FIRE DAMAGED ROADWAY LANDSCAPING	CONTRACT NO. CO2300
ELECTRICAL DETAILS	SHEET 41 OF 139
	FILE NO. 2020-0011



HOA MAINTAINED
PEDESTALS 'I2', 'J2' & 'K2'
SINGLE LINE DIAGRAM



VOLTAGE DROP CALCULATION

DIST.	500'
LOAD	50A
AWG	#1
VD%	2.7%

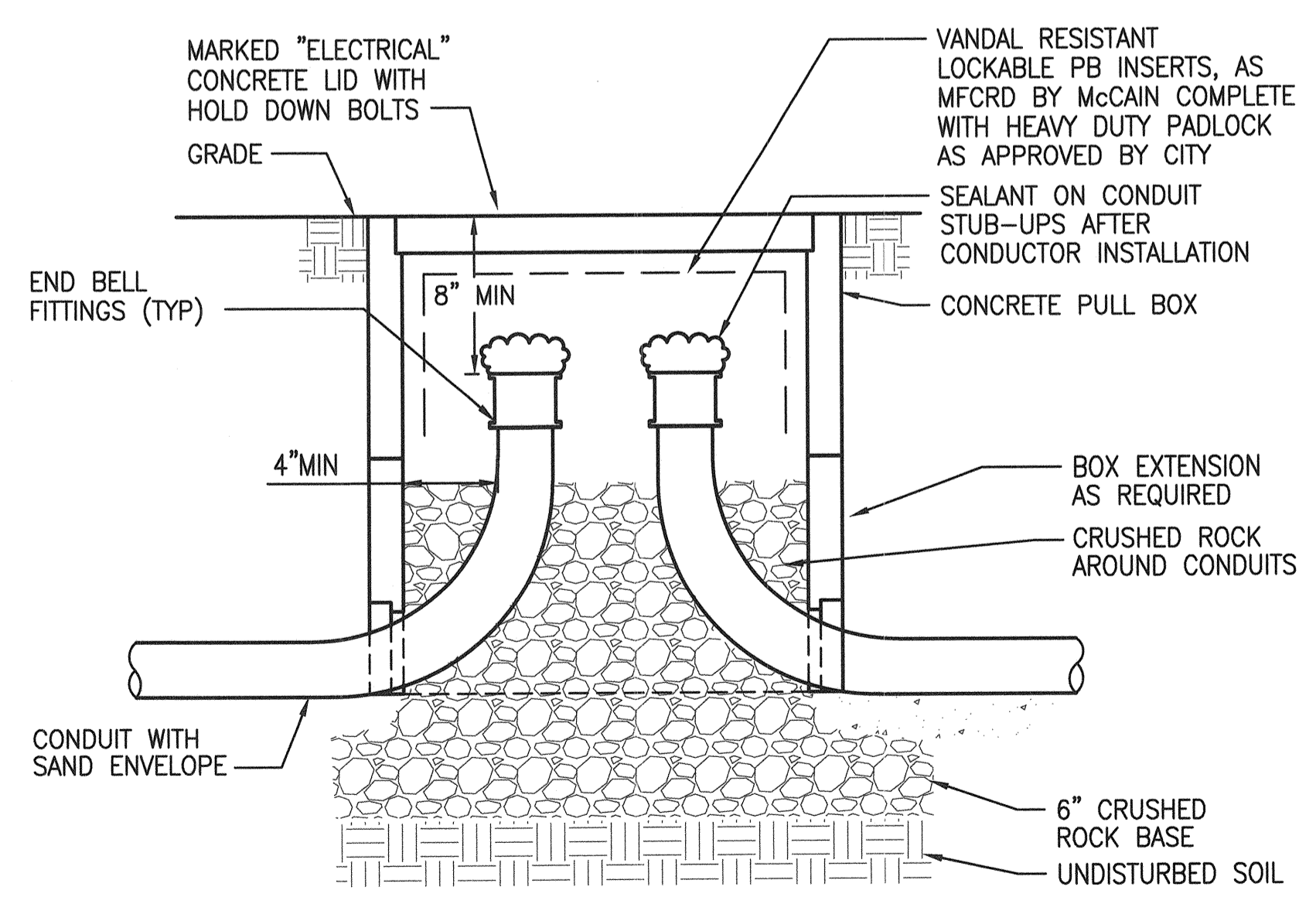
PARK GARDENS DRIVE
HOA MAINTAINED
PEDESTAL 'L2'
SINGLE LINE DIAGRAM

SHEET NOTES:

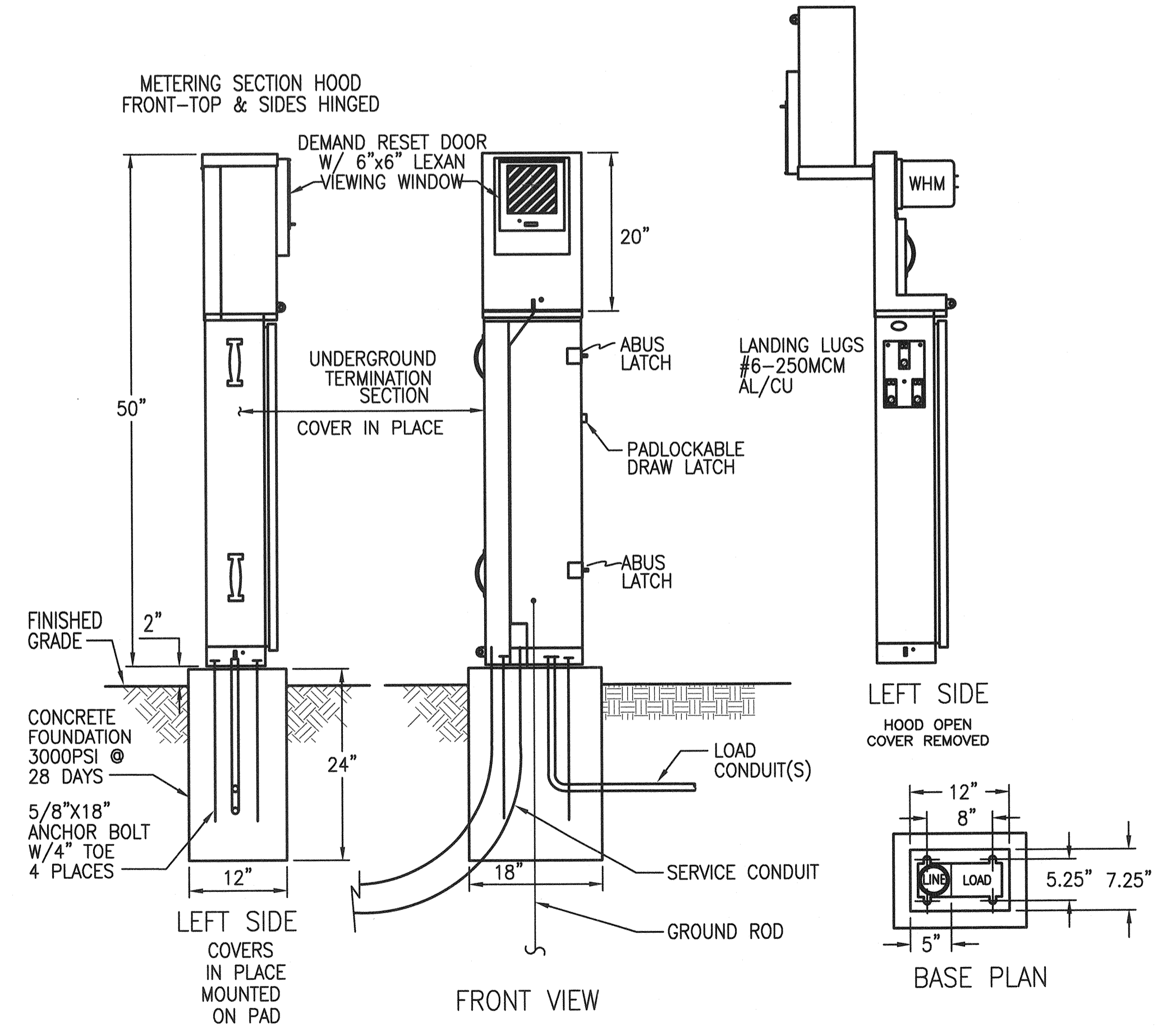
- SHORT CIRCUIT CURRENT RATING SHALL BE VERIFIED WITH PG&E PRIOR TO ORDERING EQUIPMENT
- SEE ELECTRICAL SITE PLAN FOR CONDUIT AND WIRE SIZES
- WIREWAY & SWITCHES TO BE SUPPORTED ON UNISTRUT SUPPORT FRAME WITH CONCRETE BASE
- FUSE TO BE BUSSMAN 75 AMP DUAL ELEMENT CLASS RK5

ENCLOSURE CONSTRUCTION NOTES

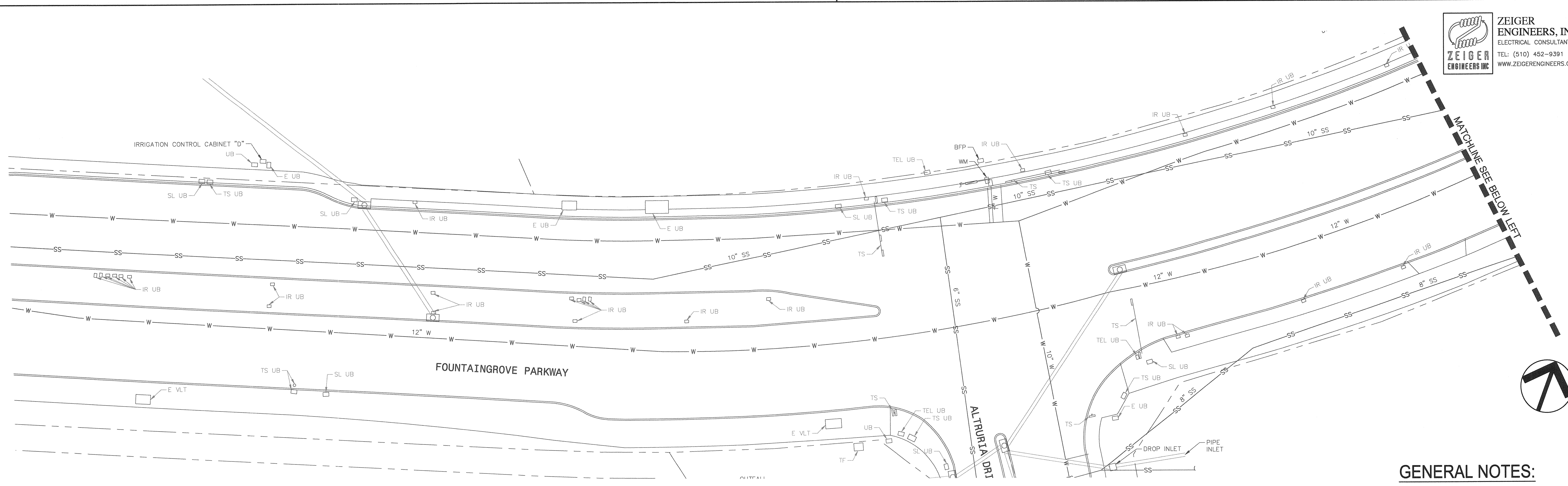
- FABRICATED FROM 14 GA. #304 D STAINLESS STEEL AND INT. 14 GA. COLD ROLLED STEEL ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
- CONSTRUCTION WILL BE NEMA 3R, RAIN TIGHT.
- ALL NUTS, BOLTS AND SCREWS WILL BE STAINLESS STEEL.
- NUTS, BOLTS & SCREWS WILL NOT BE VISIBLE FROM OUTSIDE OF ENCLOSURE.
- NAMEPLATES WILL BE PROVIDED AS REQUIRED.
- CONTROL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
- A PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
- ENCLOSURE WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA STANDARDS.
- COLOR TO BE: RAL 5020 (TEAL GREEN) WITH ANTI-GRAFFITI COAT TO MATCH



PULL BOX DETAIL
SCALE: NONE

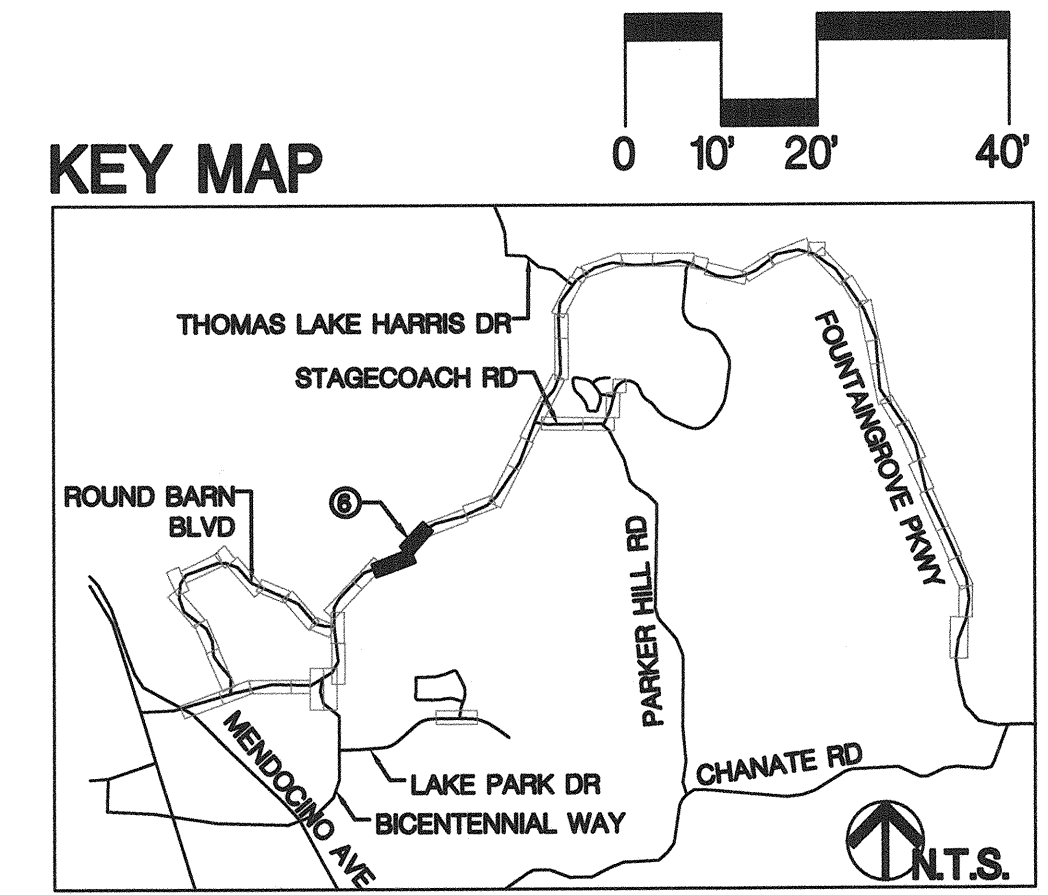
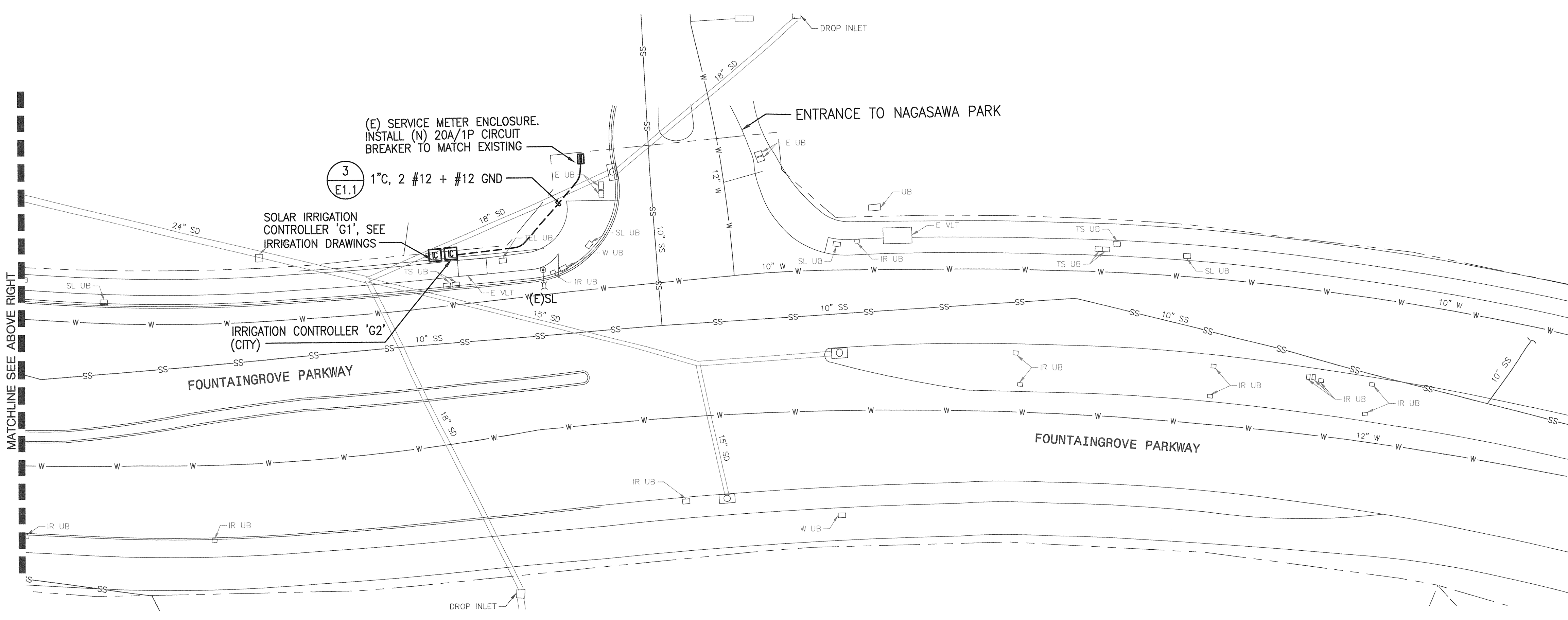


SERVICE METER PEDESTAL DETAIL
SCALE: NONE



GENERAL NOTES:

1. REFERENCE TO DETAILS IS TYPICAL FOR ALL SHEETS
2. REFER TO SHEETS E1.1 AND E1.2 FOR SINGLE LINE DIAGRAMS
3. SEE IRRIGATION DRAWINGS FOR EXACT LOCATIONS OF BOOSTER PUMPS AND IRRIGATION CONTROLLERS
4. SERVICE METER PEDESTALS LOCATED IN R.O.W. ARE SHOWN DIAGMATICALLY

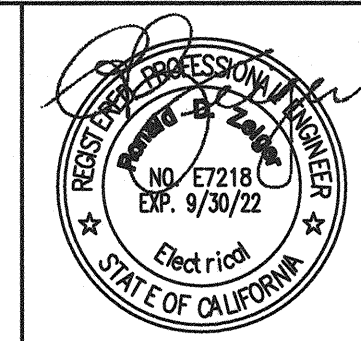


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CONTRACT NO. CO2300	
SHEET 42 OF 139	E2.06
FILE NO. 2020-0011	

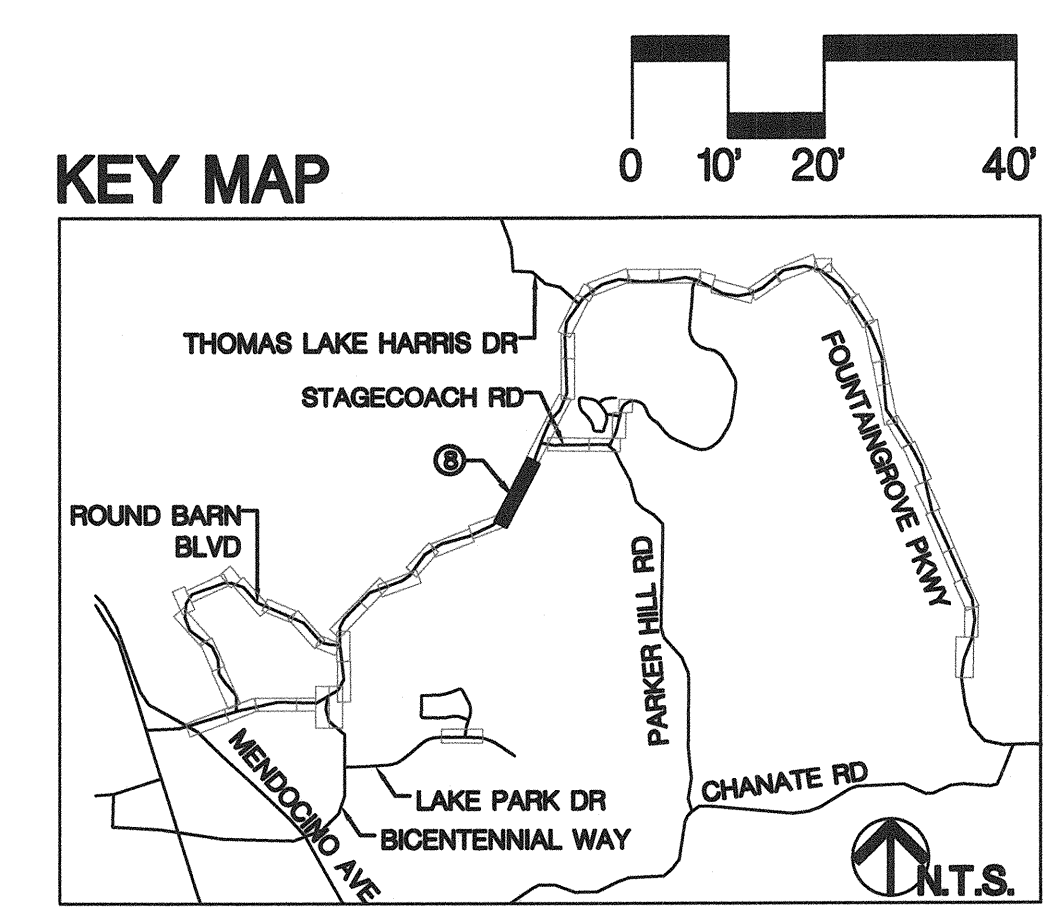
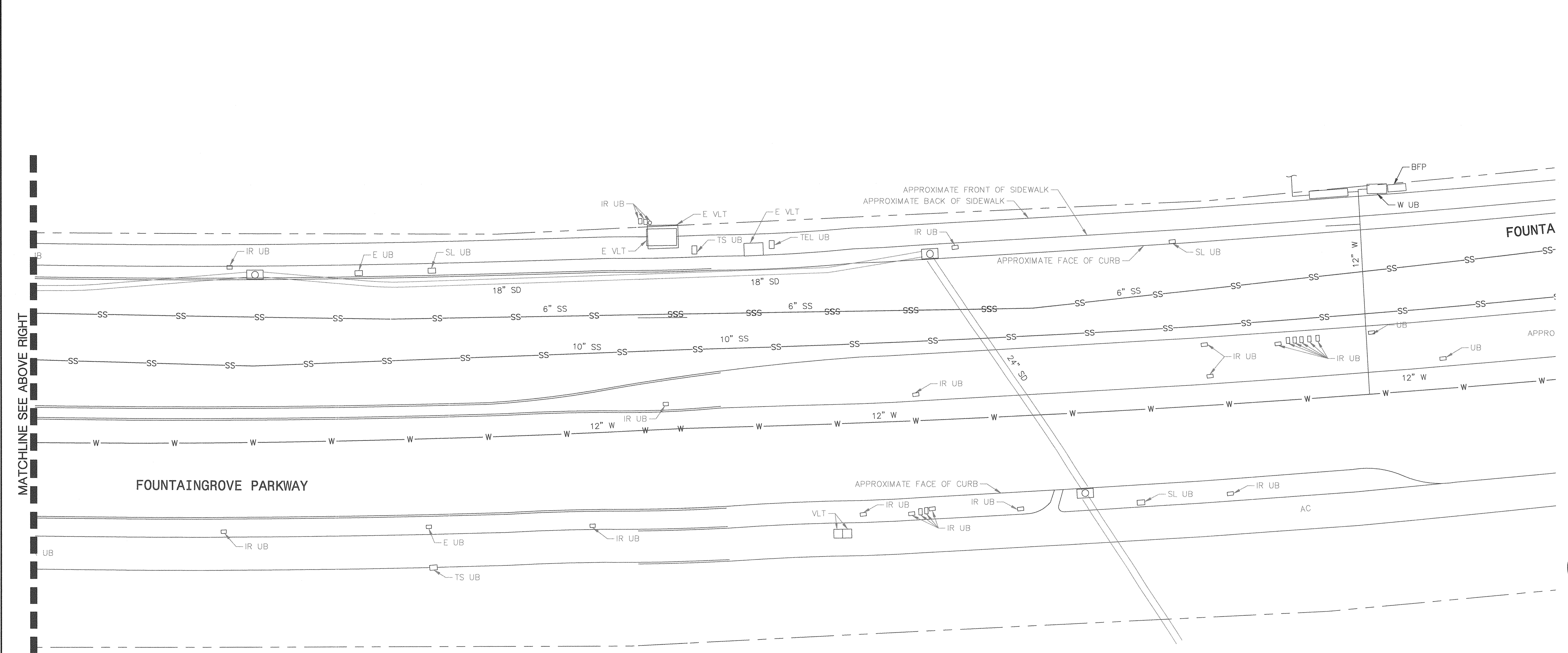
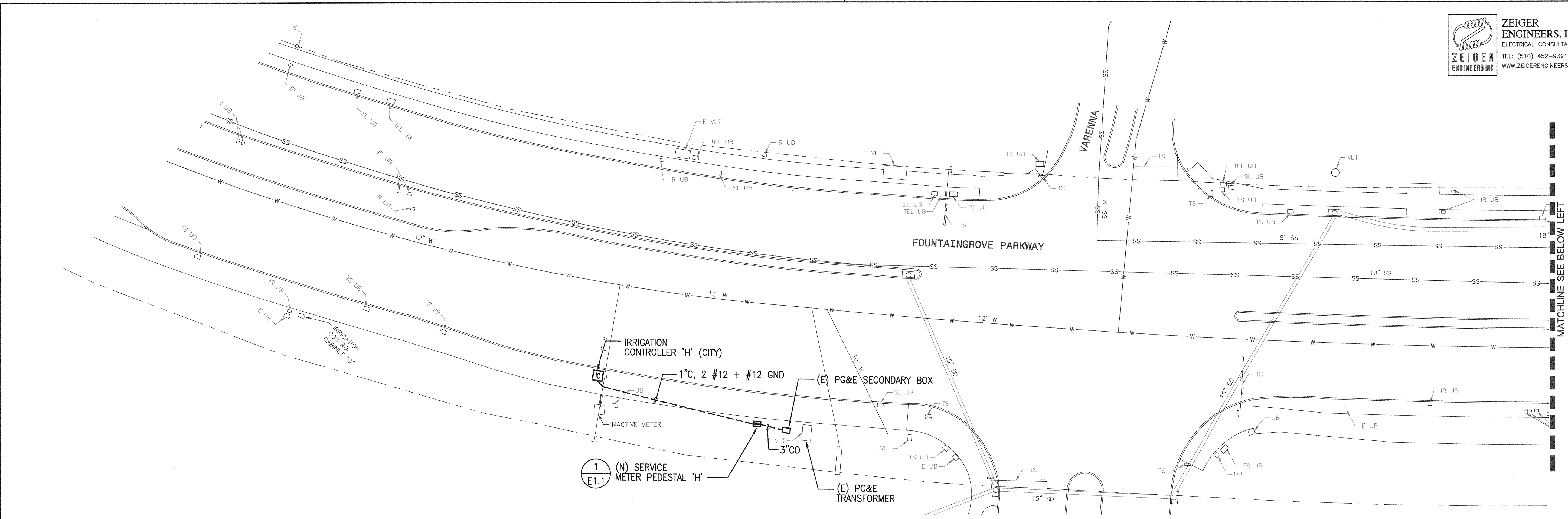
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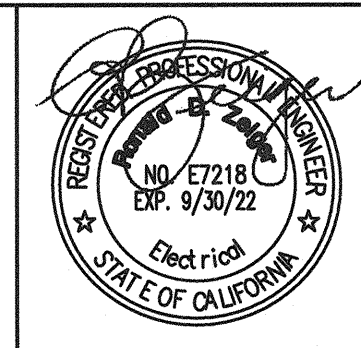
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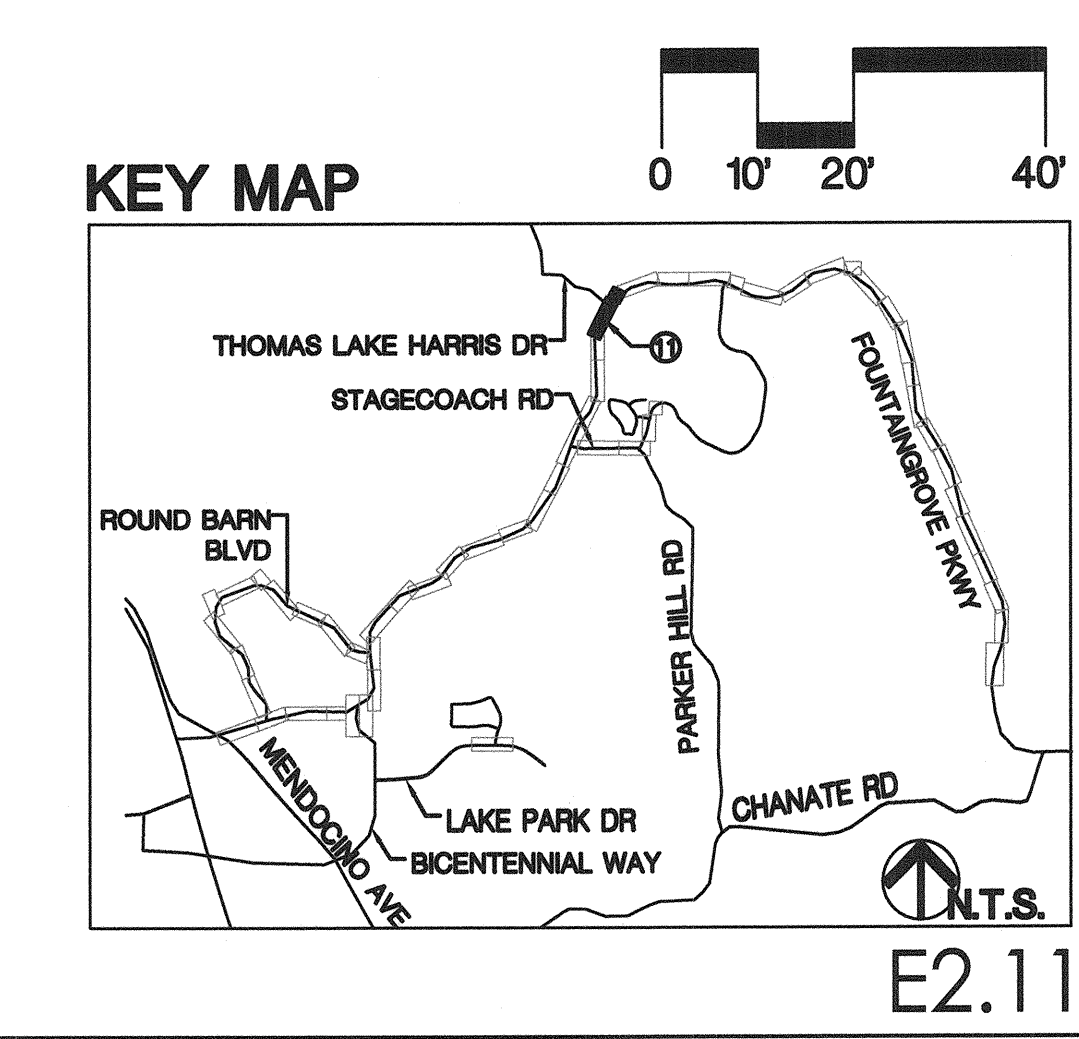
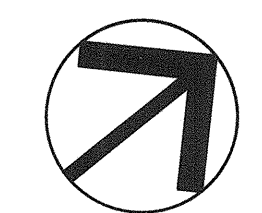
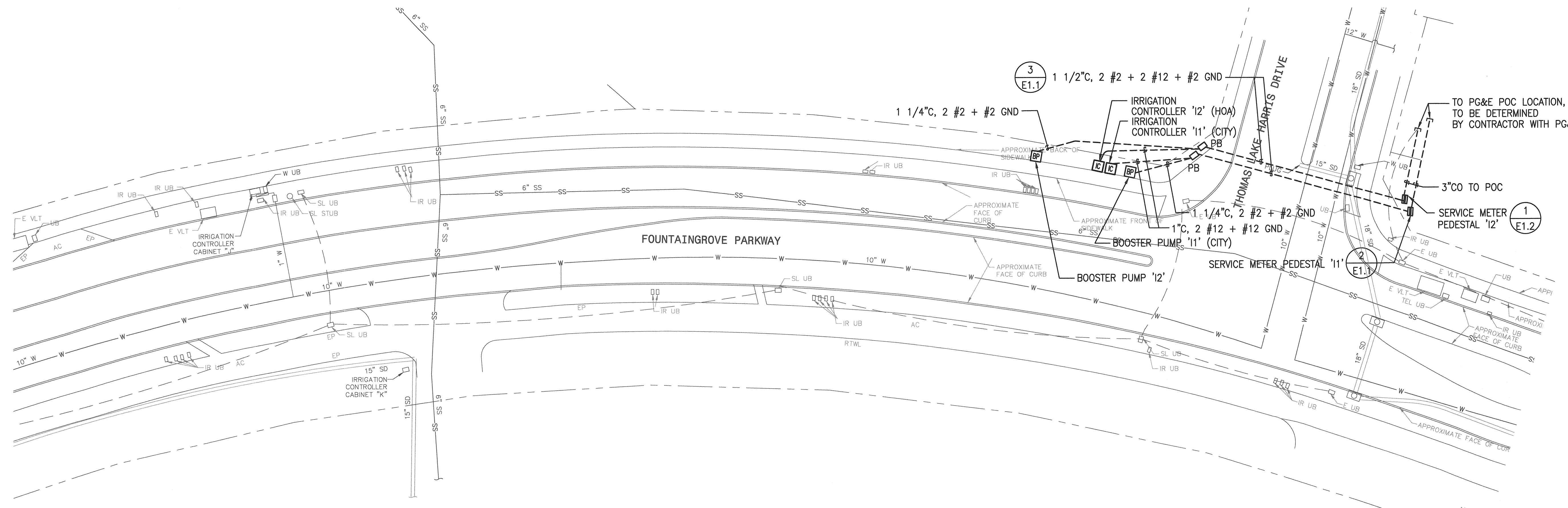
CITY OF SANTA ROSA	ELECTRICAL PLAN
FIRE DAMAGED ROADWAY LANDSCAPING	
CONTRACT NO. CO2300	SHEET 43 of 139
FILE NO. 2020-0011	



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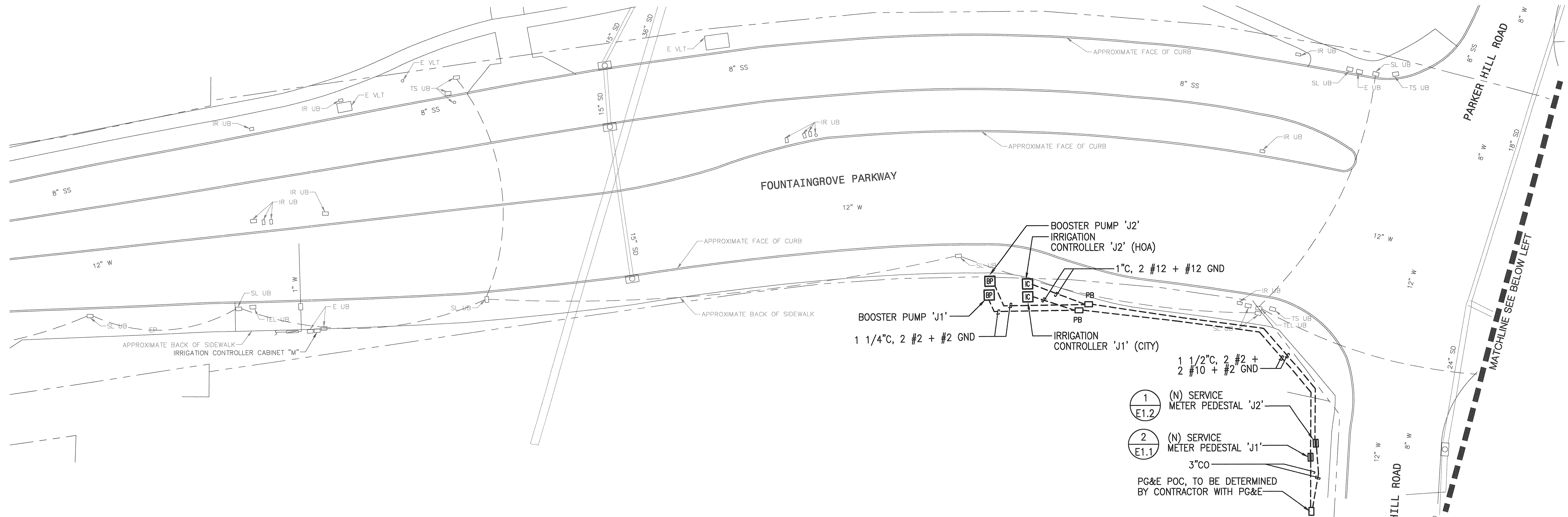
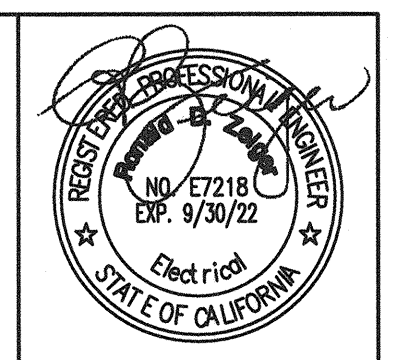
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING

ELECTRICAL PLAN

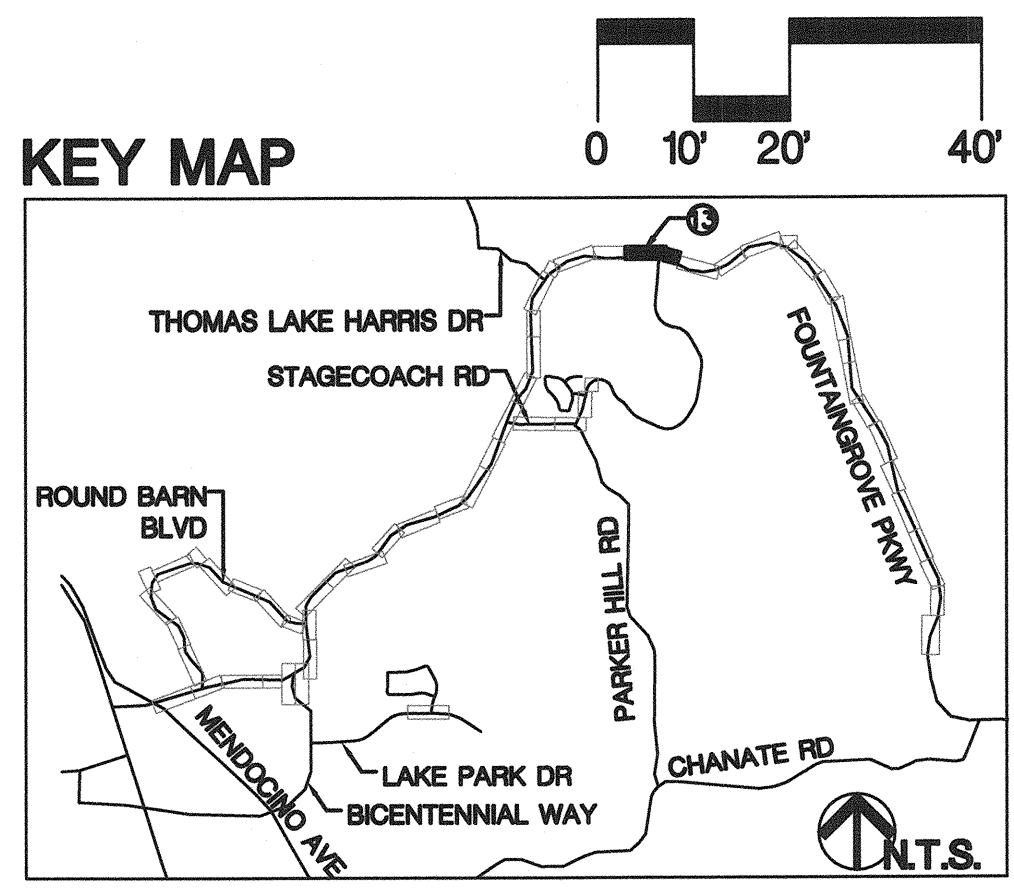
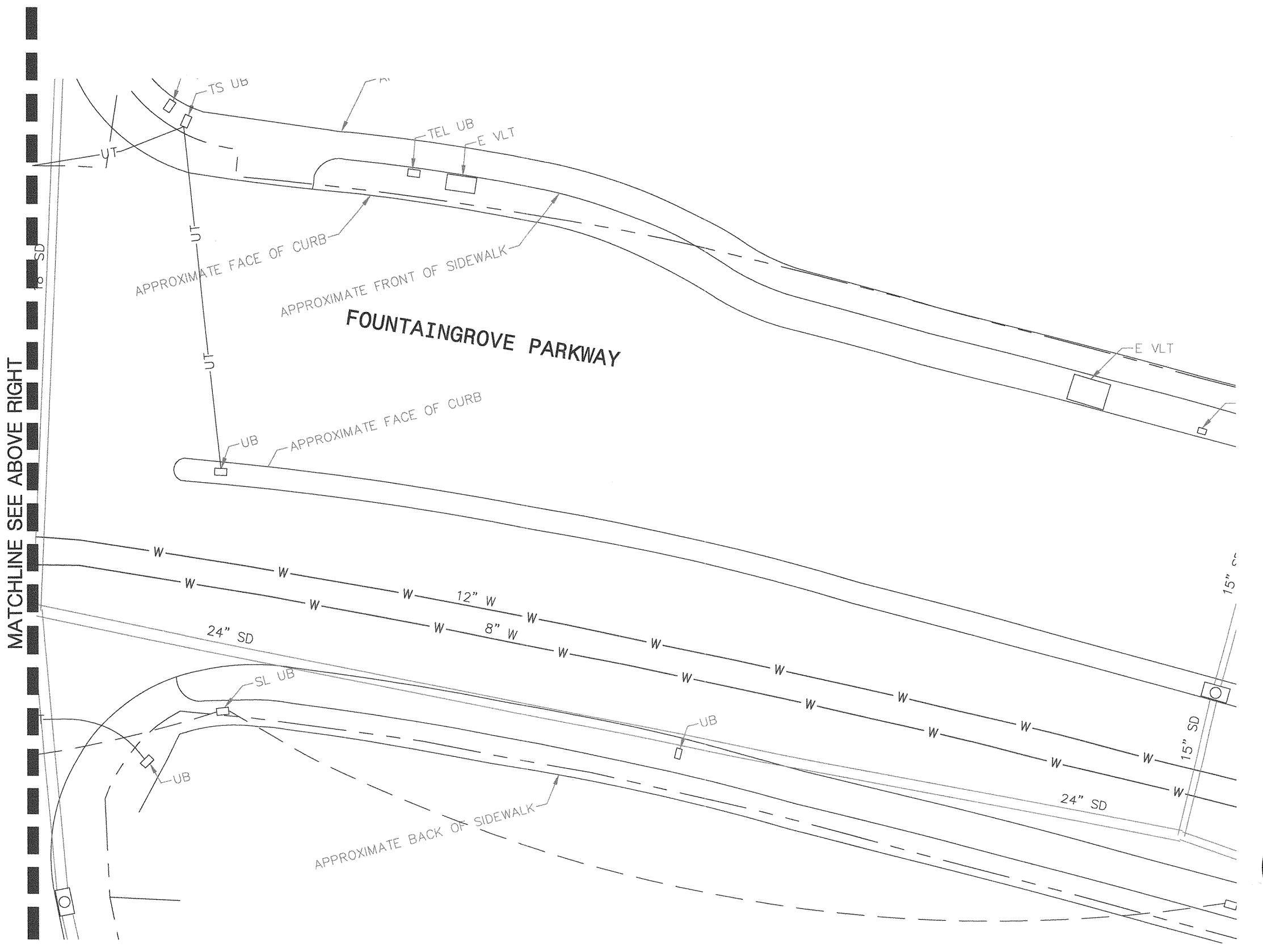
CONTRACT NO. CO2300
 SHEET 44 OF 139
 FILE NO. 2020-0011

E2.11

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- 1 (N) SERVICE METER PEDESTAL 'J2'
- 2 (N) SERVICE METER PEDESTAL 'J1'
- 3"CO
- PG&E POC, TO BE DETERMINED BY CONTRACTOR WITH PG&E

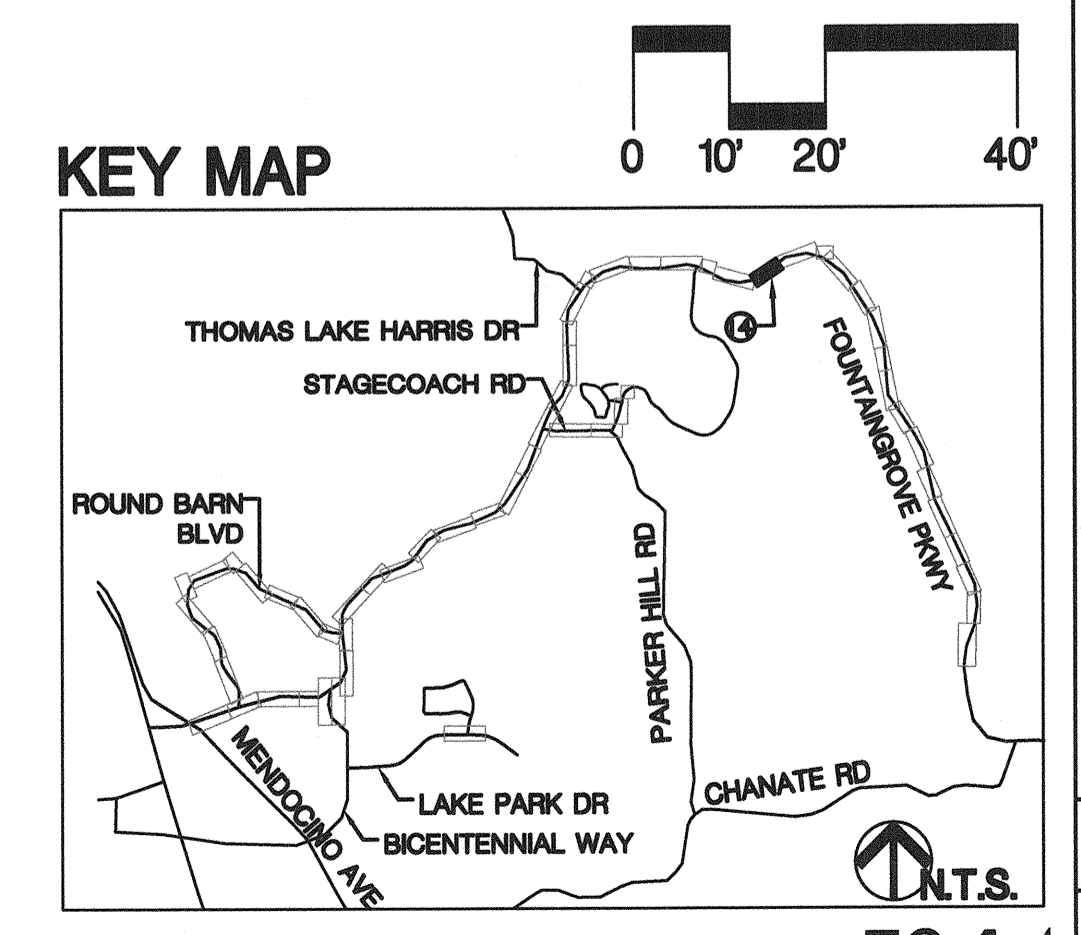
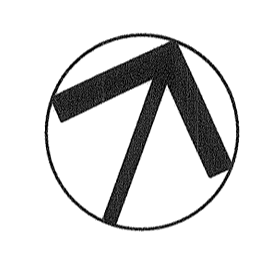
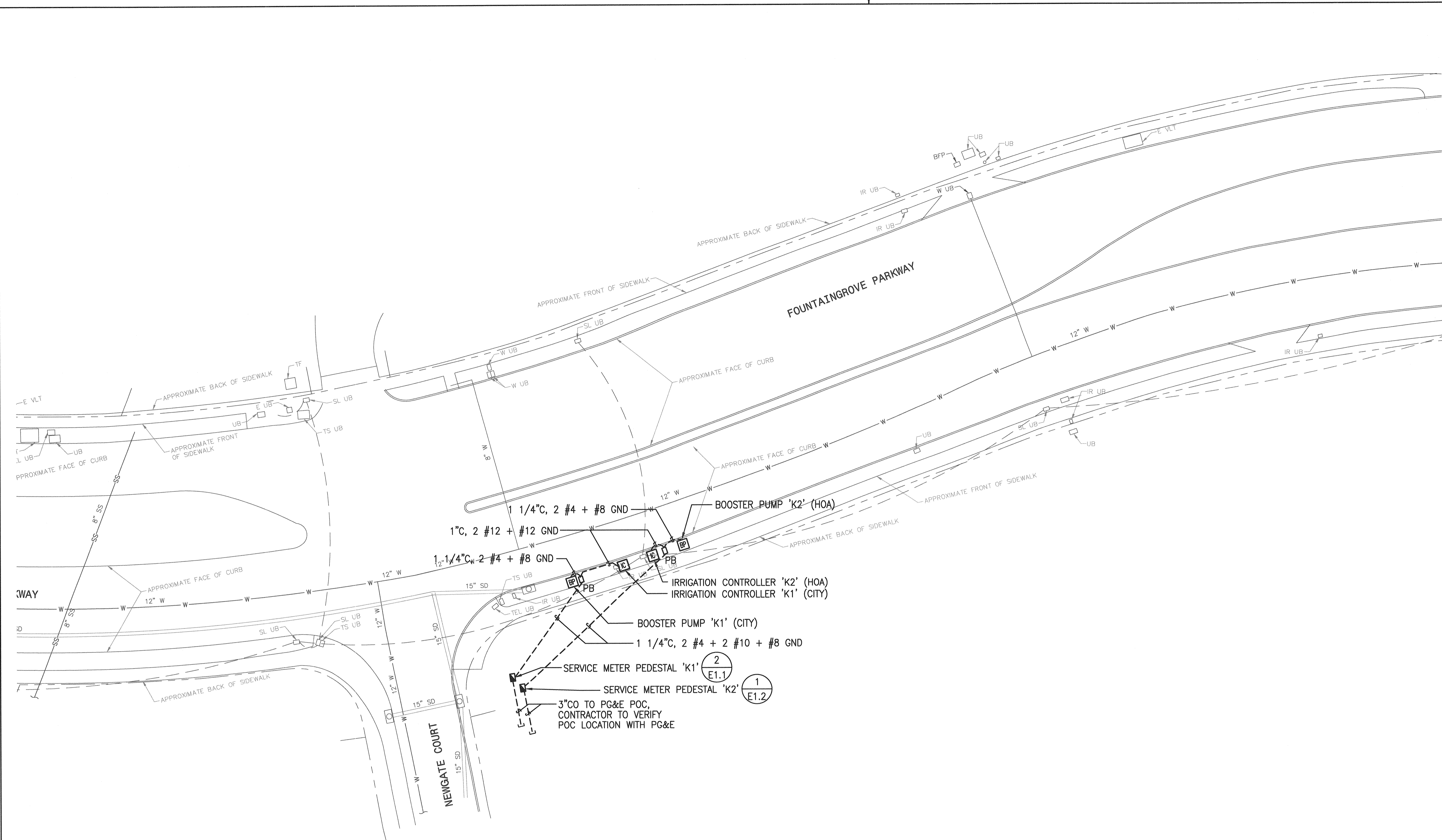


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SCALE: AS SHOWN	DATE: 5/7/2021
DWN BY: AG	CHK BY: RZ

CITY OF SANTA ROSA	ELECTRICAL PLAN
FIRE DAMAGED ROADWAY LANDSCAPING	
CONTRACT NO. CO2300	
SHEET 45 OF 139	
FILE NO. 2020-0011	

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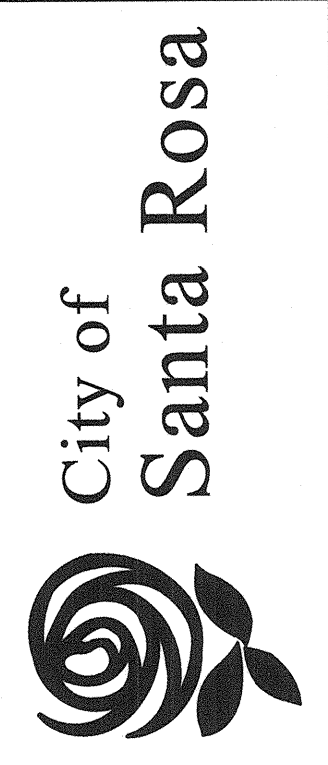
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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
ELECTRICAL PLAN

CONTRACT NO. CO2300
 SHEET 46 OF 139
 FILE NO. 2020-0011

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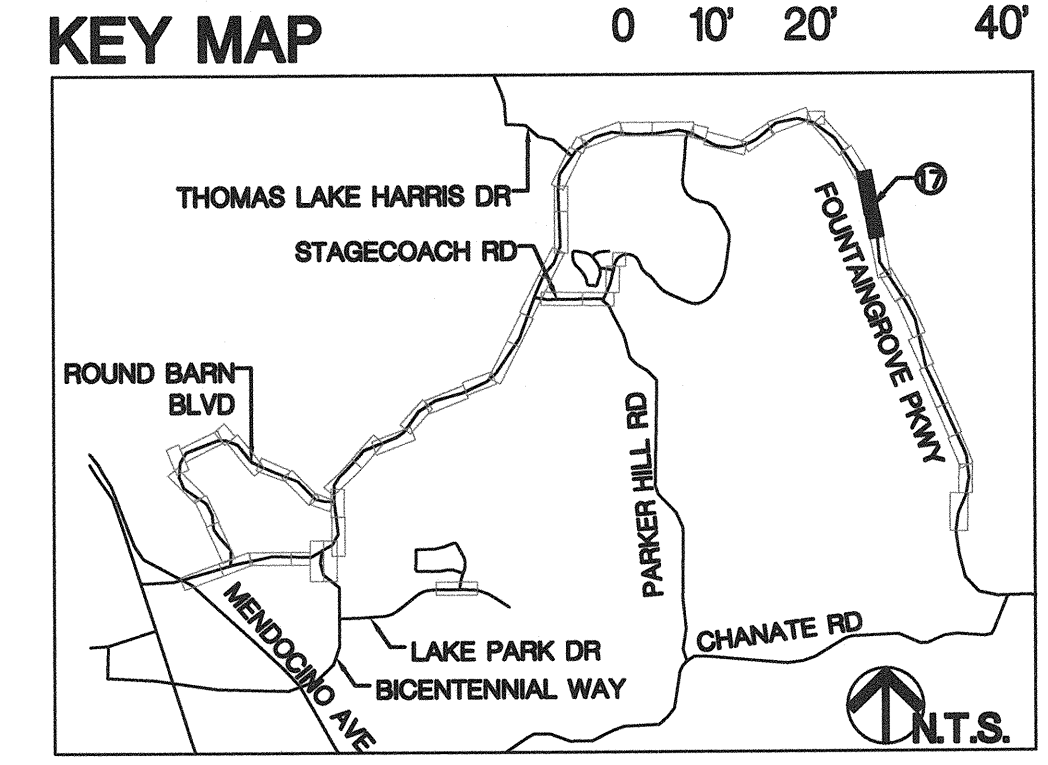
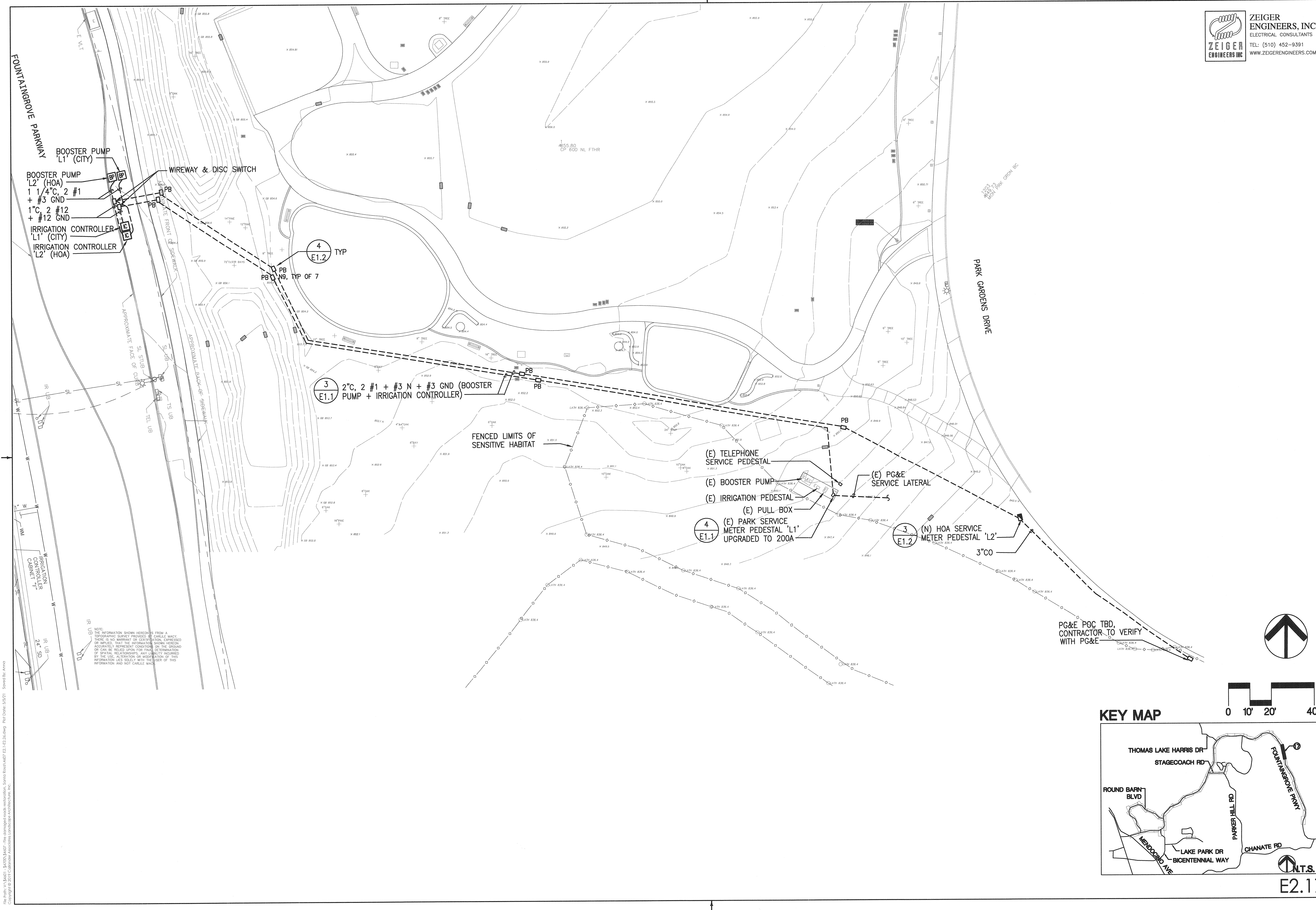
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SCALE: AS SHOWN	DATE: 5/7/2021
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CITY OF SANTA ROSA FIRE DAMAGED ROADWAY LANDSCAPING	ELECTRICAL PLAN
CONTRACT NO. CO2300	
SHEET 47 OF 139	E2.17
FILE NO. 2020-0011	



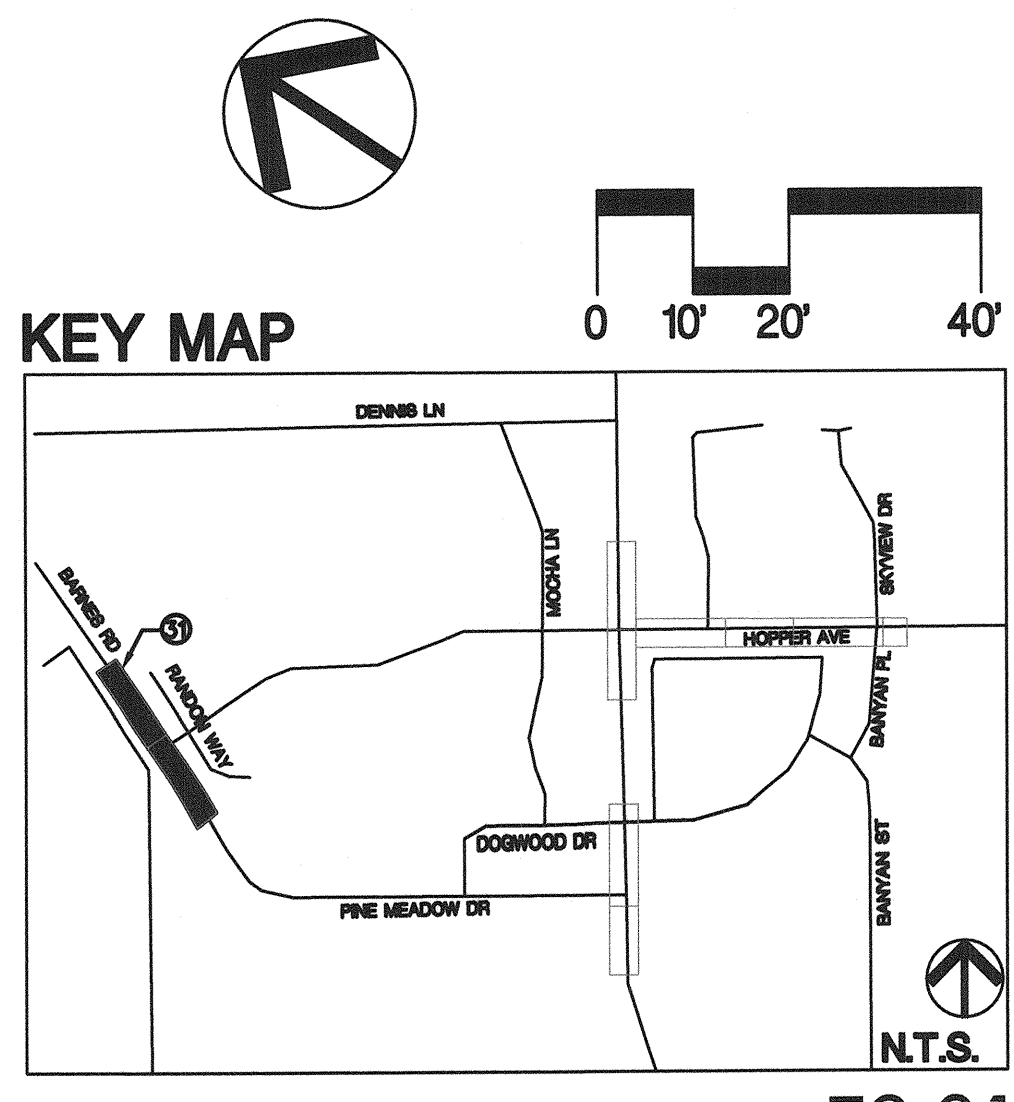
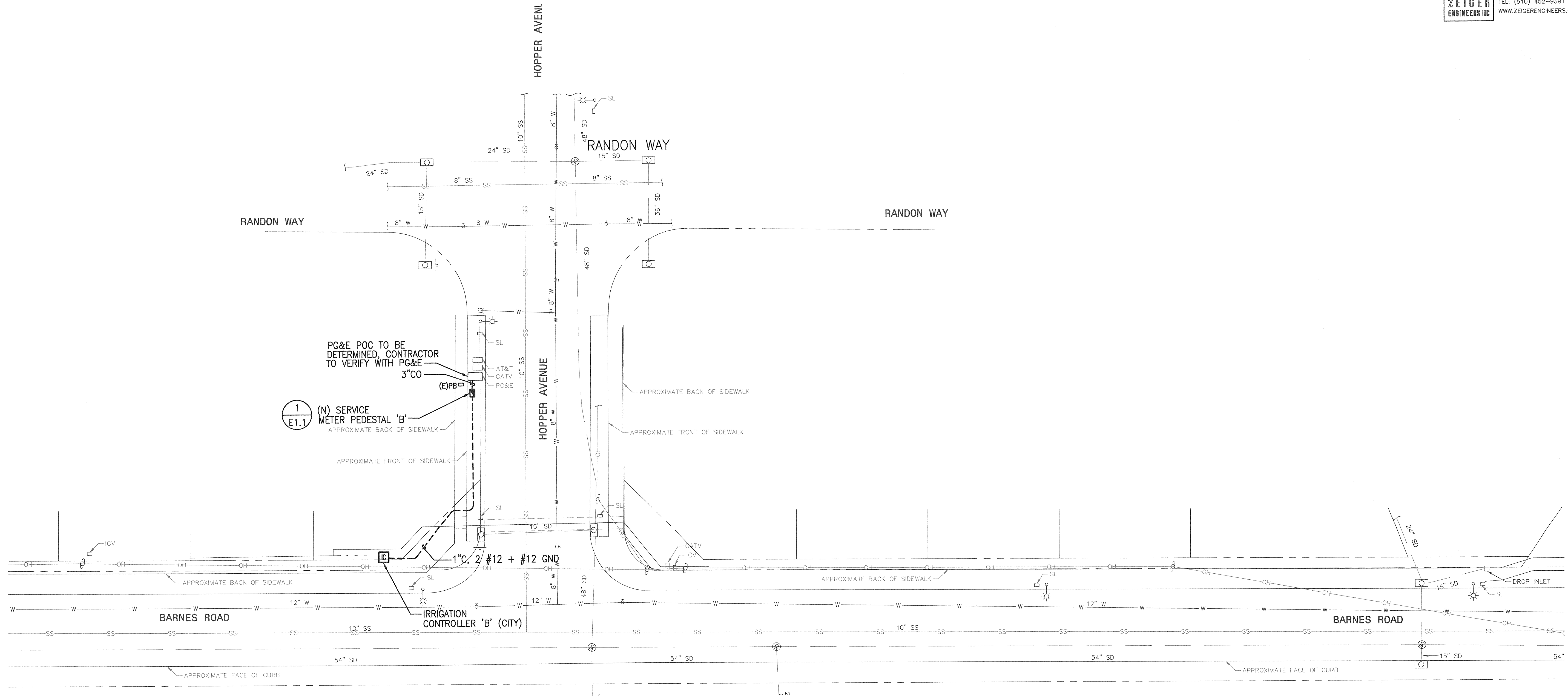
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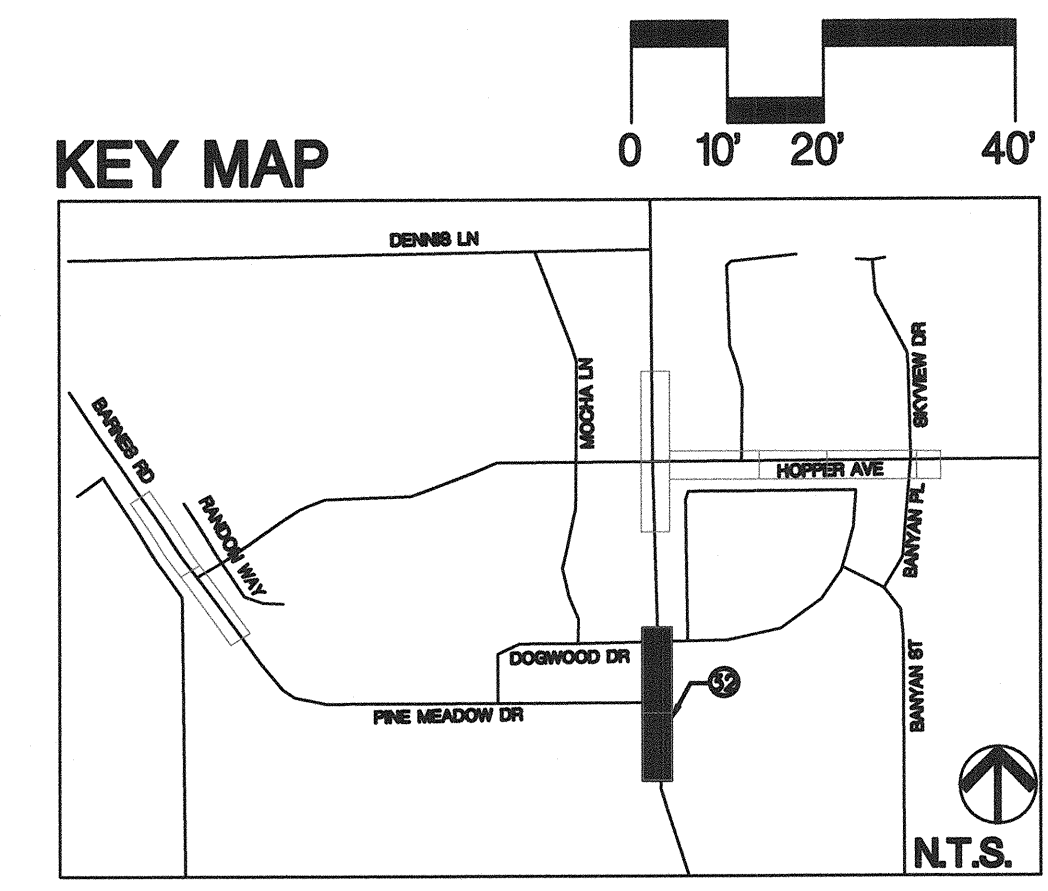
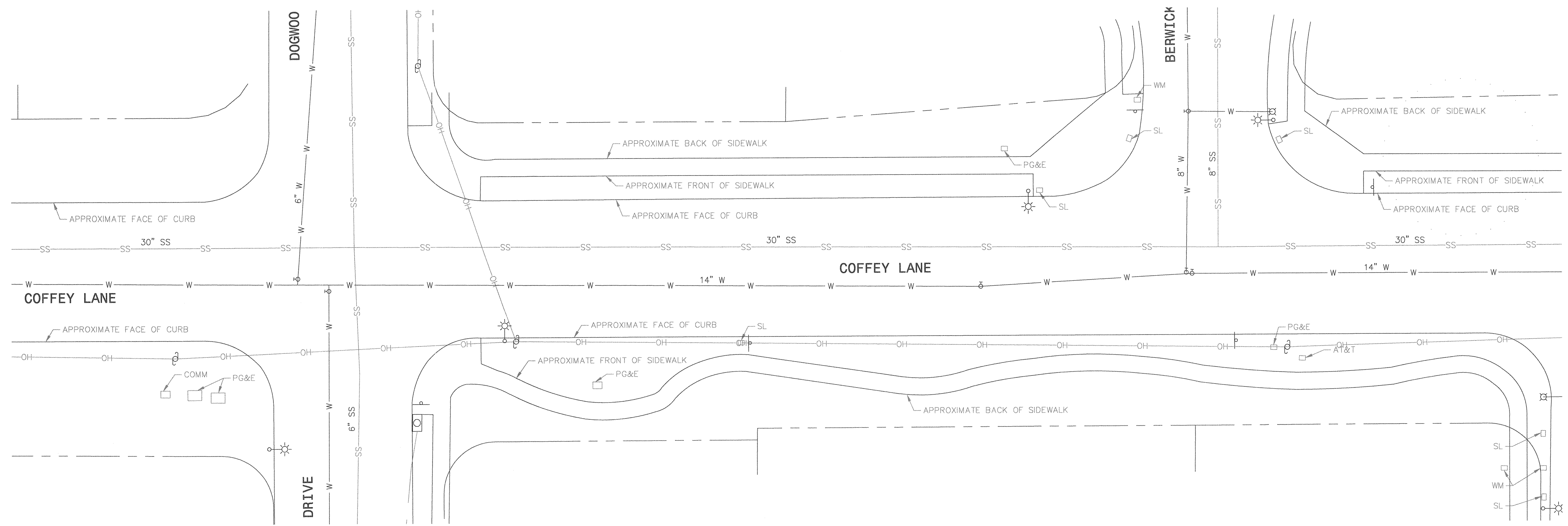
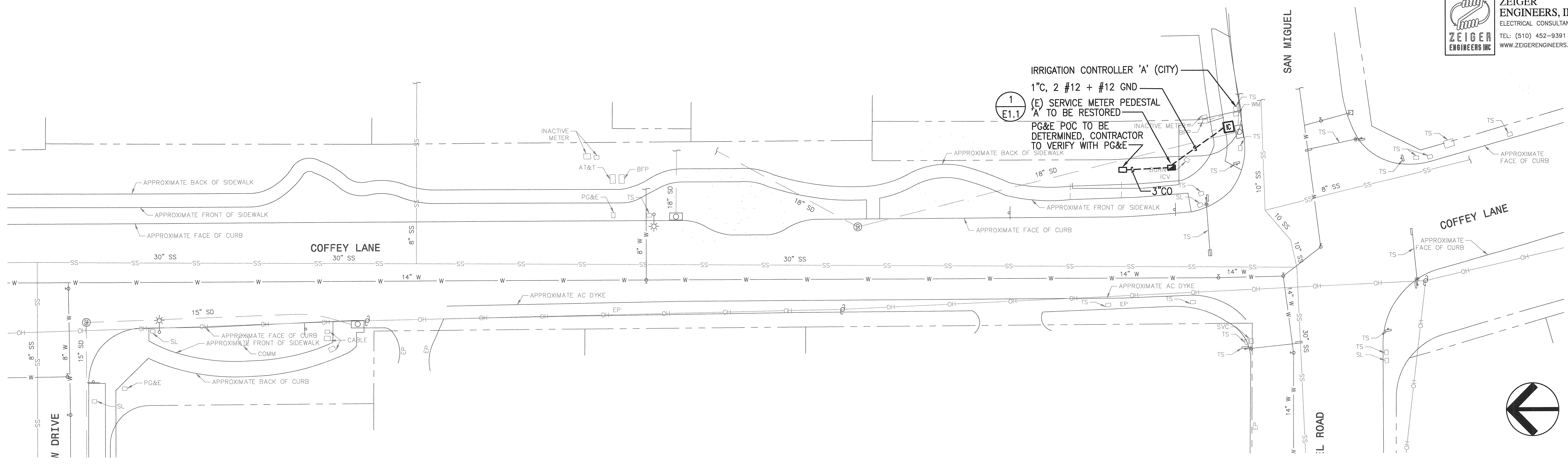
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CITY OF SANTA ROSA	ELECTRICAL PLAN
FIRE DAMAGED ROADWAY LANDSCAPING	
CONTRACT NO. CO2300	
SHEET 48 OF 139	
FILE NO. 2020-0011	



File Path: \\S:\4671 - \$7000\4607 - Fire damaged roads, restoration, Santa Rosa\607 E.31, E.32.dwg Plot Date: 5/17/21 Saved By: Anna Copyright © 2019 Collaborative Associates (Landscape Architecture), Inc.



NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 5/7/2021
DWN BY: AG	CHK BY: RZ

CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING

ELECTRICAL PLAN

CONTRACT NO. CO2300
SHEET 49 OF 139
FILE NO. 2020-0011

E2.32

File Path: \1\4607 - Fire Damaged Roadway Landscaping - Santa Rosa\4607 E2.31, E2.32.dwg Plot Date: 5/5/21 Saved By: Anna
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GENERAL NOTES

- UNAUTHORIZED CHANGES & USES: THE PROFESSIONAL WHO PREPARED THESE DRAWINGS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE DRAWINGS. CHANGES TO THESE DRAWINGS MUST BE IN WRITING AND MUST BE APPROVED BY THE CITY OF SANTA ROSA AND THE PROFESSIONAL.
- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGN PROFESSIONAL, THE OWNER AND THEIR CONSULTANTS, AND THE CITY OF SANTA ROSA, AND EACH OF THEIR OFFICERS, EMPLOYEES, AND AGENTS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS (2010 EDITION).
- OBTAIN RELEVANT PERMITS AND APPROVALS REQUIRED BY GOVERNING AGENCIES PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UNDERGROUND SERVICE ALERT (U.S.A.). CALL TOLL-FREE (800) 642-2444 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL UNCOVER EXISTING BURIED UTILITIES WITH UTILITY OWNER TO VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES. BURIED UTILITIES INCLUDE BUT ARE NOT LIMITED TO WATER, SEWER, ELECTRICAL, GAS, AND TELEPHONE. UTILITIES CONFLICTING WITH THE PROPOSED IMPROVEMENTS SHALL BE RELOCATED PRIOR TO START OF CONSTRUCTION.
- UNDERGROUND IMPROVEMENTS SHALL BE INSTALLED AND APPROVED PRIOR TO ROAD PAVING AND PLACEMENT OF CURB, GUTTER, AND SIDEWALKS.
- RESTORATION OF EXISTING SURFACING DUE TO CONSTRUCTION OF TRENCHES SHALL BE GOVERNED BY THE CONDITIONS IN THE ROAD ENCROACHMENT PERMIT UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL OBTAIN A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE EXCAVATION OF TRENCHES FIVE FEET OR GREATER IN DEPTH.
- THE CITY MAY REQUIRE ADDITIONAL WORK OR FACILITIES DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT IN ORDER FOR THE IMPROVEMENTS TO REASONABLY PROVIDE FOR THE INTENDED FUNCTION OR FOR PUBLIC SAFETY.

GRADING NOTES

- PERFORM GRADING IN ACCORDANCE WITH CHAPTER 18 AND APPENDIX J OF THE CALIFORNIA BUILDING CODE (CURRENT EDITION AS ADOPTED BY CITY ORDINANCE AT THE TIME OF PERMIT ISSUANCE).
- SUBGRADE, CLASS II AGGREGATE BASE, AND ASPHALT CONCRETE SHALL HAVE A RELATIVE COMPACTION OF AT LEAST 95%.
- EXISTING DRAINAGE COURSES RECEIVING WATERS FROM THIS SITE AND LOCATED THROUGHOUT THIS SITE SHALL REMAIN OPEN AND CLEAR OF DEBRIS TO PROPERLY CONVEY STORM WATER. THE CONTRACTOR MAY BE HELD LIABLE FOR DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING UPON DISCOVERING DISCREPANCIES, ERRORS OR OMISSIONS IN THESE DRAWINGS. PRIOR TO PROCEEDING, THE CONTRACTOR SHALL HAVE THESE DRAWINGS REVISED TO CLARIFY IDENTIFIED DISCREPANCIES, ERRORS OR OMISSIONS. THE REVISED DRAWINGS SHALL BE SUBJECT TO REVIEW BY THE BUILDING INSPECTOR OR OTHER APPROPRIATE AGENCY.
- IN THE EVENT CULTURAL RESOURCES (I.E., HISTORICAL, ARCHAEOLOGICAL, AND PALEONTOLOGICAL RESOURCES, AND HUMAN REMAINS) ARE DISCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN A 100 FOOT RADIUS OF THE FIND. THE NORTHWEST INFORMATION CENTER SHALL BE NOTIFIED AT (707) 664-0880. A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. ADDITIONAL MITIGATION MAY BE REQUIRED BY THE CITY IN ACCORDANCE WITH THE ARCHEOLOGIST'S RECOMMENDATIONS. IF HUMAN BURIALS OR HUMAN REMAINS ARE ENCOUNTERED, THE CONTRACTOR SHALL ALSO NOTIFY THE COUNTY CORONER AT (707) 565-5070.
- SHOULD GRADING OPERATIONS ENCOUNTER HAZARDOUS MATERIALS, OR WHAT APPEAR TO BE HAZARDOUS MATERIALS, STOP WORK IN THE AFFECTED AREA IMMEDIATELY AND CONTACT 911 OR THE APPROPRIATE AGENCY FOR FURTHER INSTRUCTION. HAZARDOUS MATERIAL SHALL BE REMOVED AND DISPOSED OF ACCORDING TO THE REQUIREMENTS OF THE FIRE DEPARTMENT. THE APPLICANT IS REQUIRED TO DEMONSTRATE COMPLIANCE WITH STATE AND LOCAL CODES FOR REMOVAL OF ASBESTOS CONTAINING MATERIALS DURING DEMOLITION ACTIVITIES.
- PERMITS AND AN APPROVED COPY OF THE CONSTRUCTION DOCUMENTS SHALL BE MAINTAINED BY THE CONTRACTOR ON THE PROJECT SITE THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
- DRAINAGE FACILITIES AND GRADING SHALL BE INSPECTED BEFORE RECEIVING FINAL APPROVAL.
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL THROUGHOUT THE DURATION OF CONSTRUCTION.

WATER UTILITIES NOTES

- THE CONTRACTOR SHALL:
 - EXPOSE EXISTING UTILITIES PRIOR TO TRENCHING TO VERIFY THE ALIGNMENTS AND ELEVATIONS OF THE UTILITIES, AND TO VERIFY DESIGN ASSUMPTIONS. EXISTING UTILITIES MAY REQUIRE RELOCATION AND/OR PROPOSED IMPROVEMENTS MAY REQUIRE GRADE OR ALIGNMENT REVISION DUE TO FIELD CONDITIONS. IF THE EXPOSED UTILITY IS DETERMINED TO BE IN A LOCATION WHICH IS NOT REFLECTED BY THE CONSTRUCTION DOCUMENTS, NOTIFY THE ENGINEER IN WRITING SO THAT APPROPRIATE ADJUSTMENTS CAN BE MADE.
 - OBTAIN A DE-WATERING PERMIT FROM THE NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD FOR DE-WATERING OPERATIONS THAT ARE USED TO MANAGE THE REMOVAL OF GROUND WATER FROM

EXCAVATIONS AND THEIR DISCHARGE TO THE WATERS OF THE STATE OR THE STORM DRAIN SYSTEM. APPROVAL MUST BE OBTAINED FROM THE CITY OF SANTA ROSA ENVIRONMENTAL COMPLIANCE DIVISION PRIOR TO DISCHARGING GROUNDWATER TO THE SEWER.

- REPORT UTILITY CONFLICTS TO THE OWNER'S REPRESENTATIVE IN WRITING AS THEY ARE ENCOUNTERED SO THAT THE OWNER AND OWNER'S REPRESENTATIVE CAN MAKE A DECISION AS TO HOW THE CONTRACTOR SHOULD PROCEED WITH THE WORK.
- COORDINATE WITH UTILITY COMPANIES, FURNISH, INSTALL, TEST AND OBTAIN INSPECTIONS FOR UNDERGROUND IMPROVEMENTS PRIOR TO SURFACING.
- PROVIDE TRENCHING FOR WATER FACILITIES IN ACCORDANCE WITH CITY OF SANTA ROSA STANDARD 215 AND SECTION 19 OF THE CITY OF SANTA ROSA CONSTRUCTION SPECIFICATIONS.
- PROVIDE TWO HARD COPIES AND ONE ELECTRONIC COPY OF RECORD DRAWINGS TO THE CITY OF SANTA ROSA RECREATION AND PARKS UPON COMPLETION OF PROJECT AND PRIOR TO FINAL ACCEPTANCE.
- OTHER FORCES WILL BE ENGAGED IN INSTALLING, IN MAKING ADJUSTMENTS TO AND/OR IN RELOCATING VARIOUS FACILITIES THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL COORDINATE WORK AROUND OTHER FORCES IN A MANNER THAT DOES NOT PROLONG THE CONTRACT TIME.
- IF CONTAMINATED MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, WORK MUST STOP UNTIL A WORK PLAN HAS BEEN APPROVED IN WRITING BY THE FIRE DEPARTMENT AND THE NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD (NCRWQC).
- TRENCH SPOILS SHALL BE REMOVED AS THEY ARE GENERATED. DISPOSE OF EXCESS/UNSUITABLE MATERIAL OFFSITE AT AN APPROVED LOCATION. CONTAIN AND SECURELY PROTECT STOCKPILED TRENCH BACKFILL AND WASTE MATERIAL FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED. DO NOT BLOCK STORM WATER FLOWS.
- UNDERGROUND IMPROVEMENTS INCLUDING WATER LINES, PUBLIC UTILITY FACILITIES, AND SERVICES SHALL BE INSTALLED, TESTED, AND ACCEPTED BY THE UTILITIES AND PUBLIC WORKS DEPARTMENTS PRIOR TO PAVING. TRENCH PAVING FOR UTILITIES SHALL BE COORDINATED AND INSTALLED AT THE SAME TIME.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE OR DETERIORATION OCCURRING TO EXISTING PUBLIC IMPROVEMENTS AS A DIRECT RESULT OF CONSTRUCTION ACTIVITY. REPAIR MAY REQUIRE PATCHING, SEALING OR OVERLAYING AFFECTED AREAS AS APPROPRIATE TO RETURN THE ROADS TO AT LEAST AS GOOD A CONDITION AS THEY WERE PRIOR TO CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACT IN A TIMELY MANNER, THE CITY MAY, AT ITS DISCRETION PERFORM THE CORRECTION AND CHARGE THE CONTRACTOR FOR ALL COSTS AND OVERHEAD INCURRED.
- THE USE OF CONTROLLED DENSITY BACKFILL (CDF) WITHIN ANY WATER TRENCH IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF UTILITIES.
- THERE SHALL BE NO UNMETERED CONNECTIONS TO THE CITY OF SANTA ROSA WATER SYSTEM INCLUDING CONNECTIONS BYPASSING THE METER FOR TESTING ONSITE PLUMBING OR FOR OBTAINING CONSTRUCTION WATER. SUCH CONNECTIONS SHALL BE SEVERED BY THE UTILITIES DEPARTMENT AND WILL RESULT IN PENALTIES, INCLUDING PAYMENT OF FINES AND ESTIMATED WATER USAGE FEES.
- THE LOCATIONS OF UNDERGROUND OBSTRUCTIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY AND SHOULD NOT BE TAKEN AS FINAL OR ALL INCLUSIVE. THE CONTRACTOR IS CAUTIONED THAT THESE DRAWINGS MAY NOT INCLUDE ALL EXISTING UTILITIES AND THAT THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR OBSTRUCTIONS WHICH MAY BE ENCOUNTERED.
- THE CONTRACTOR IS CAUTIONED NOT TO ORDER PRECAST ITEMS OR INSTALL IMPROVEMENTS UNTIL CONFLICTS ARE RESOLVED. IMPROVEMENTS INSTALLED OR ORDERED PRIOR TO CONFLICT RESOLUTION SHALL BE DONE SOLELY AT THE CONTRACTOR'S RISK AND AT NO EXPENSE TO THE OWNER, THE DESIGN PROFESSIONAL, THE COUNTY OF SONOMA OR THE CITY OF SANTA ROSA.
- THE CONTRACTOR SHALL RECOGNIZE THAT UNDERGROUND FACILITIES NOT SHOWN AS CIVIL IMPROVEMENTS (PG&E, TELEPHONE, TELEVISION, IRRIGATION, ETC.) SHALL BE COORDINATED AND CONSTRUCTED PRIOR TO PLACEMENT OF BASE ROCK AND PAVING.
- UTILITY LENGTHS SHOWN REFLECT ROUNDED LENGTHS MEASURED HORIZONTALLY BETWEEN THE CENTERS OF STRUCTURES. THE CONTRACTOR SHALL VERIFY SLOPED UTILITY LENGTHS IN THE FIELD PRIOR TO ORDERING MATERIAL.
- THE CONTRACTOR SHALL STAMP THE LETTER "W" ON THE FACE OF THE CURB DIRECTLY ABOVE WATER SERVICE LATERALS, AND "B" ON THE FACE OF THE CURB DIRECTLY ABOVE BLOW-OFF OR AIR RELIEF VALVES.
- TESTING FOR RELATIVE DENSITIES SHALL BE IN ACCORDANCE WITH CALTRANS' TEST METHOD NO. 216, PART II OR ASTM 1557. THE USE OF SAND CONE METHODS -- SUCH AS ASTM 1556 OR CALTRANS' 216, PART I -- SHALL NOT BE ALLOWED.
- ALL NEW AND EXISTING UTILITY VAULTS, PULL BOXES, MANHOLES, ETC. LOCATED WITHIN THE NEW PUBLIC SIDEWALK SHALL BE EQUIPPED WITH SLIP RESISTANT COVERS.

MAPPING NOTES

- THE CONTRACTOR SHALL PRESERVE AND PERPETUATE EXISTING SURVEY MONUMENTATION WHICH WILL BE DISTURBED OR REMOVED TO FACILITATE THE PROPOSED IMPROVEMENTS. IF WORK WILL BE CONDUCTED IN AN AREA WHICH RESULTS IN THE DISTURBANCE OF MONUMENTATION, RETAIN THE SERVICES OF A LICENSED LAND SURVEYOR TO LOCATE SAID MONUMENTATION PRIOR TO DISTURBANCE. ADDITIONALLY, RETAIN THE SERVICES OF A LICENSED LAND SURVEYOR TO RE-ESTABLISH MONUMENTATION WHICH HAS BEEN DISTURBED AS A RESULT OF PROJECT CONSTRUCTION AND TO FILE THE APPROPRIATE DOCUMENTATION, PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 8771, WITH THE SONOMA COUNTY RECORDER ONCE CONSTRUCTION IS COMPLETE.
- BOUNDARY, TOPOGRAPHIC, AND UNDERGROUND UTILITY INFORMATION SHOWN HERON WAS OBTAINED FROM CITY OF SANTA ROSA GIS. BKF TAKES NO RESPONSIBILITY FOR ANY OMISSION, OR FOR THE ACCURACY OF ANY OF THE INFORMATION SHOWN.



05/19/2021
 ANDREW J. DeZURIK
 C-85129



DWN BY: MRK CHK BY: AJD DATE: MAY 2021

DESIGN/CONST	SURVEY	MATERIALS LAB	TRAFFIC	REC & PARKS	STORMWATER	DEPT.	BY	REVISION	DATE	NO.

ABBREVIATIONS

- AC ASPHALT CONCRETE
- BFP BACKFLOW PREVENTOR
- DW DRIVEWAY
- E ELECTRIC
- EP EDGE OF PAVEMENT
- G GAS
- IR IRRIGATION
- MB MAILBOX
- MH MANHOLE
- PG&E PACIFIC GAS & ELECTRIC
- RTWL RETAINING WALL
- SD STORM DRAIN
- SL STREET LIGHT
- SS SANITARY SEWER
- TEL TELECOMMUNICATION LINE
- TF TRANSFORMER
- TS TRAFFIC SIGNAL
- TYP TYPICAL
- UB UTILITY BOX
- VLT VAULT
- W WATER

INDEX OF DRAWINGS

- C1.00 NOTES AND LEGEND
- C1.02 UTILITY PLAN
- C1.06 UTILITY PLAN
- C1.08 UTILITY PLAN
- C1.11 UTILITY PLAN
- C1.13 UTILITY PLAN
- C1.14 UTILITY PLAN
- C1.17 UTILITY PLAN
- C1.20 UTILITY PLAN
- C1.22 UTILITY PLAN
- C1.23 UTILITY PLAN
- C1.26 UTILITY PLAN
- C1.31 UTILITY PLAN
- C1.32 UTILITY PLAN

SYMBOLS & LEGEND

EXISTING	PROPOSED	
		BLOW OFF VALVE
		FIRE HYDRANT
		BACK FLOW PREVENTER
		WATER METER
		POST INDICATOR VALVE
		STREET SIGN
		STREET LIGHT
		UTILITY POLE
		GUY ANCHOR
		CATCH BASIN
		SANITARY SEWER MANHOLE
		STORM DRAIN MANHOLE
		TREE
		PROPERTY LINE
		UNDERGROUND ELECTRIC LINE
		UNDERGROUND STREETLIGHT LINE
		UNDERGROUND TRAFFIC SIGNAL LINE
		SANITARY SEWER
		STORM DRAIN
		WATER
		OVERHEAD UTILITY LINE
		KEYNOTE

DATE: 05/05/2021
 CHK BY: AJD
 APPROVED: Deputy Director - Engineering
 By: Lori Urbanek

CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
 UTILITY PLAN

**BEFORE EXCAVATING
 CALL U.S.A.
 UNDERGROUND SERVICE ALERT
 811
 TWO WORKING DAYS BEFORE ALL
 PLANNED WORK OPERATIONS**



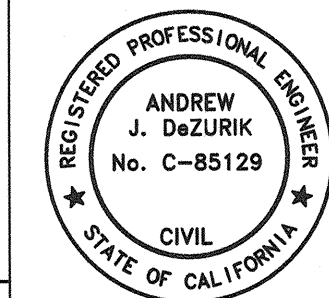
CONTRACT NO. CO2300
 SHEET 50 OF 139
 FILE NO. 2020-0011

C1.00



ANDREW J. DeZURIK
C-85129

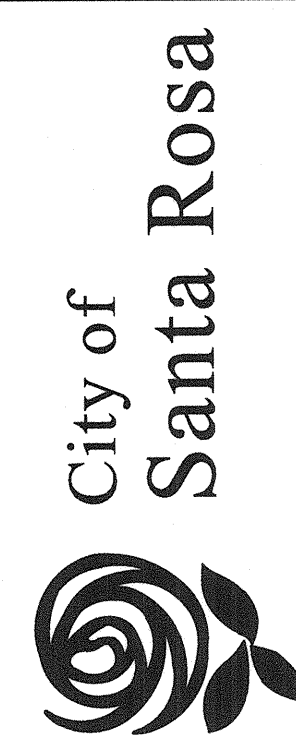
05/19/2021



DWN BY: MRK | CHK BY: AJD | DATE: MAY 2021

KEYNOTES

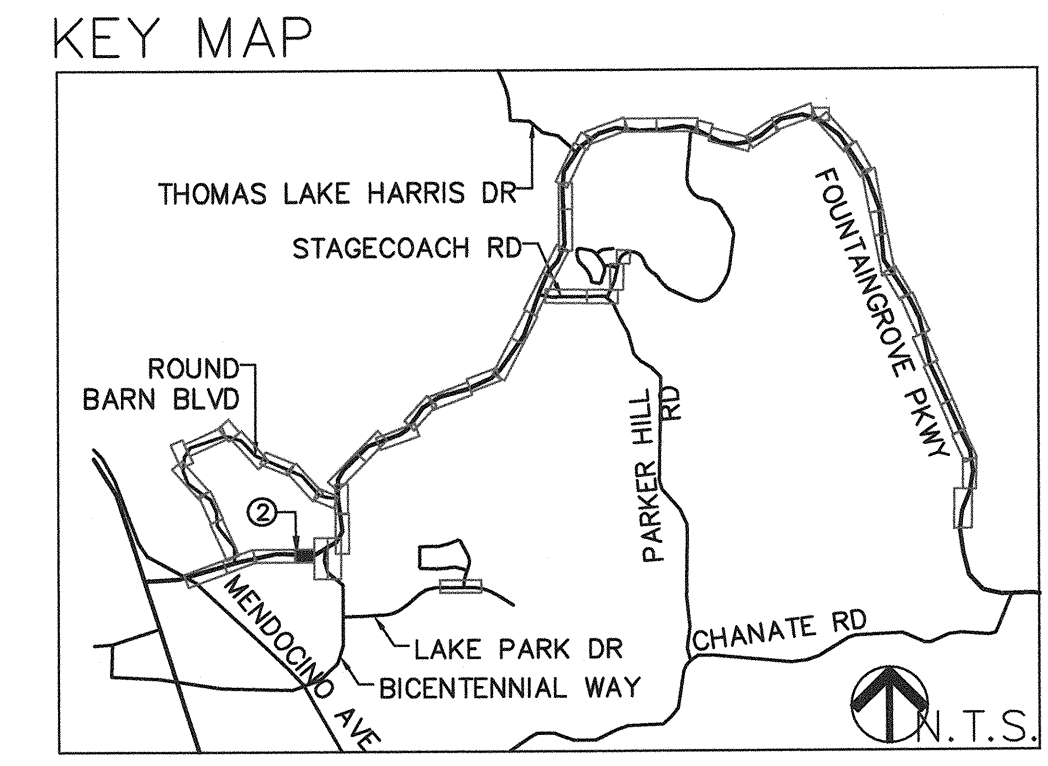
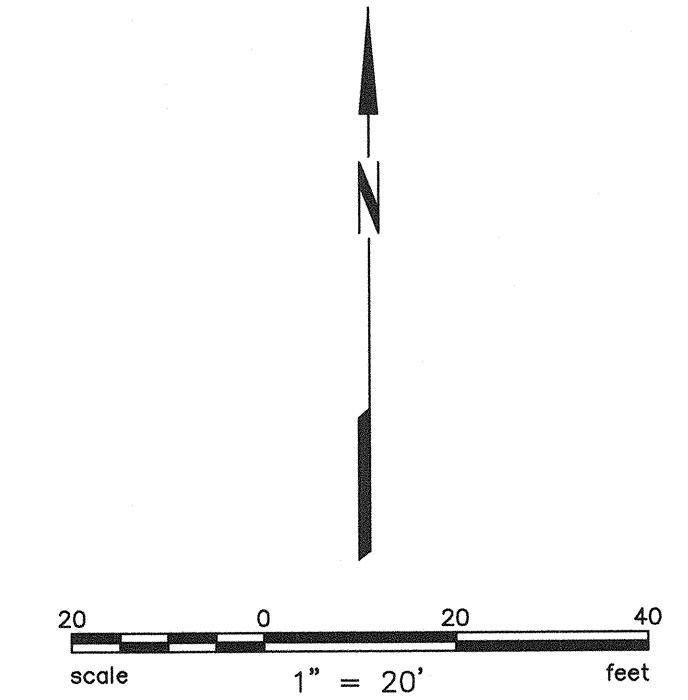
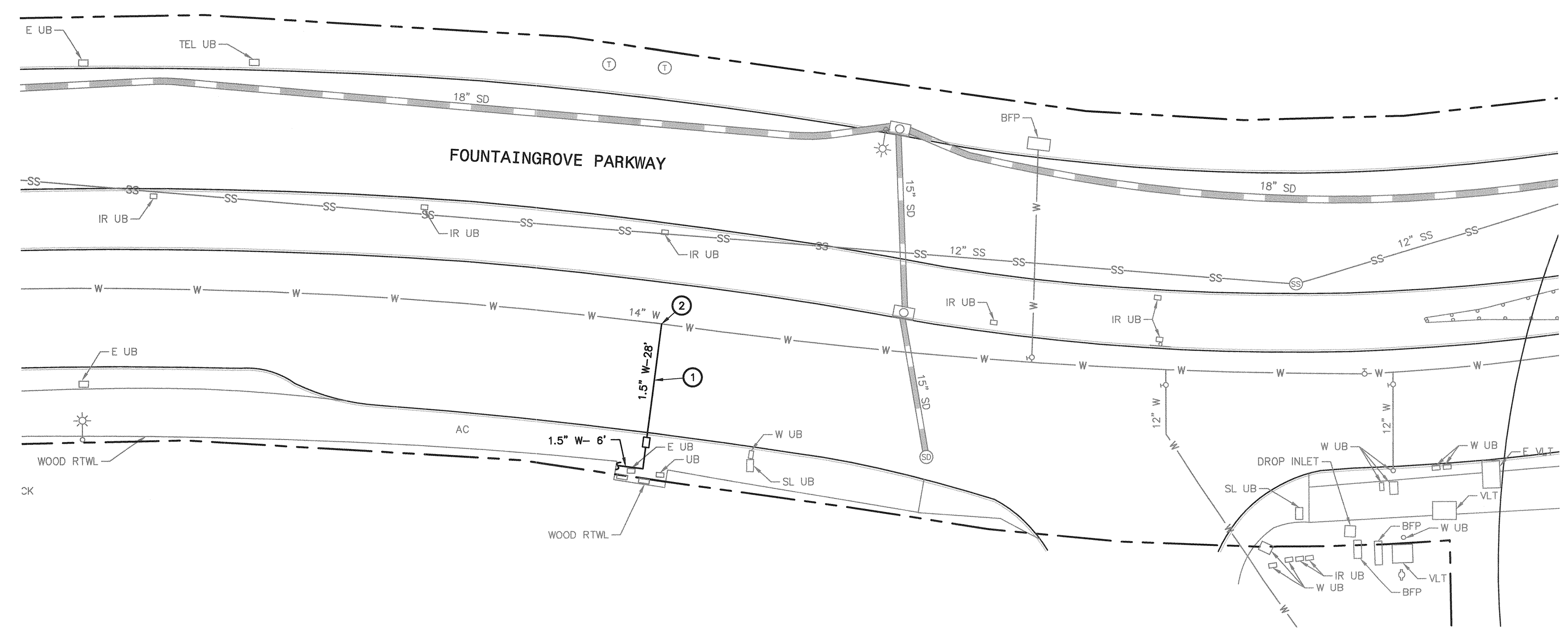
- ① PROVIDE 1.5-INCH IRRIGATION WATER SERVICE WITH 1" METER IN ACCORDANCE WITH CITY OF SANTA ROSA STANDARD 863-C. REFER TO IRRIGATION DRAWINGS FOR CONTINUATION.
- ② PROVIDE 1.5-INCH HOT TAP BY CITY FORCES AT THE CONTRACTOR'S EXPENSE. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.



NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/05/2021
DWN BY: MRK	CHK BY: AJD

CITY OF SANTA ROSA	UTILITY PLAN
FIRE DAMAGED ROADWAY LANDSCAPING	
CONTRACT NO. CO2300	SHEET 51 OF 139
FILE NO. 2020-0011	



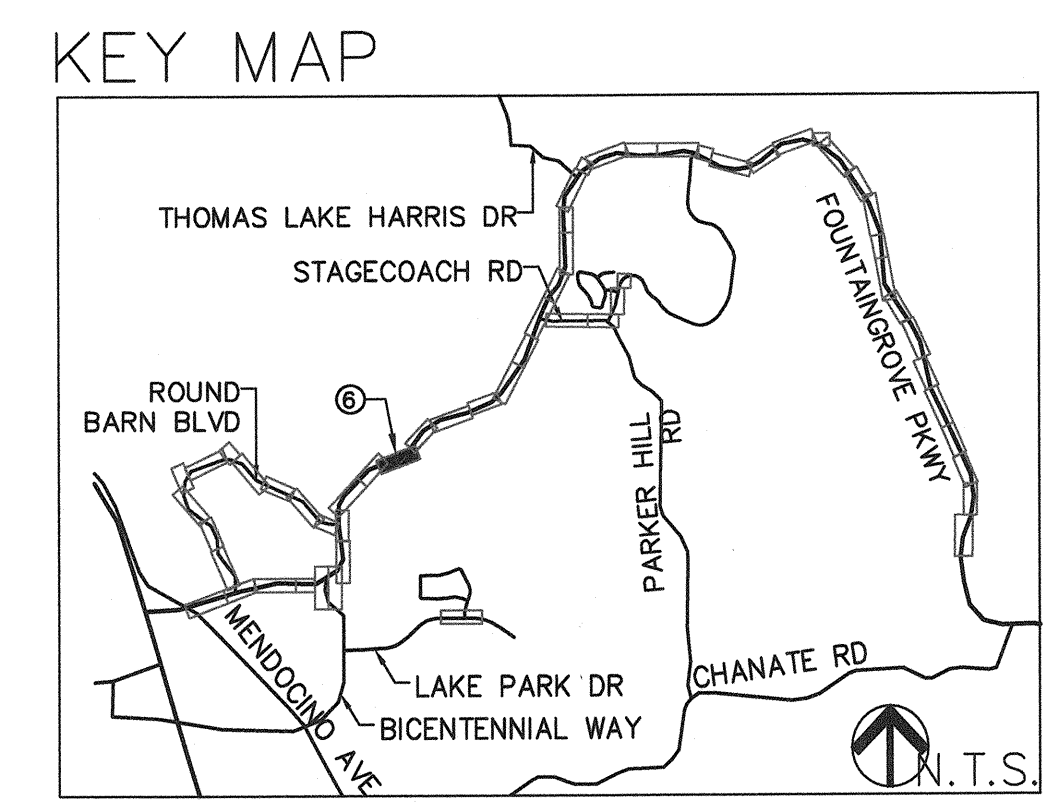
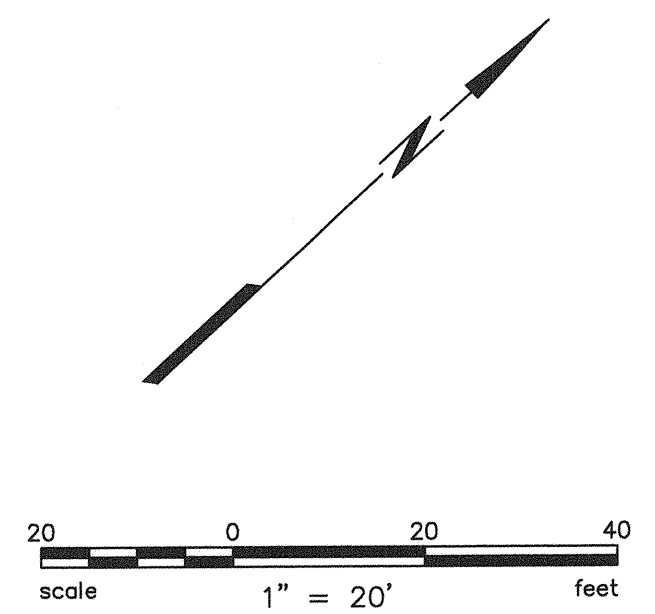
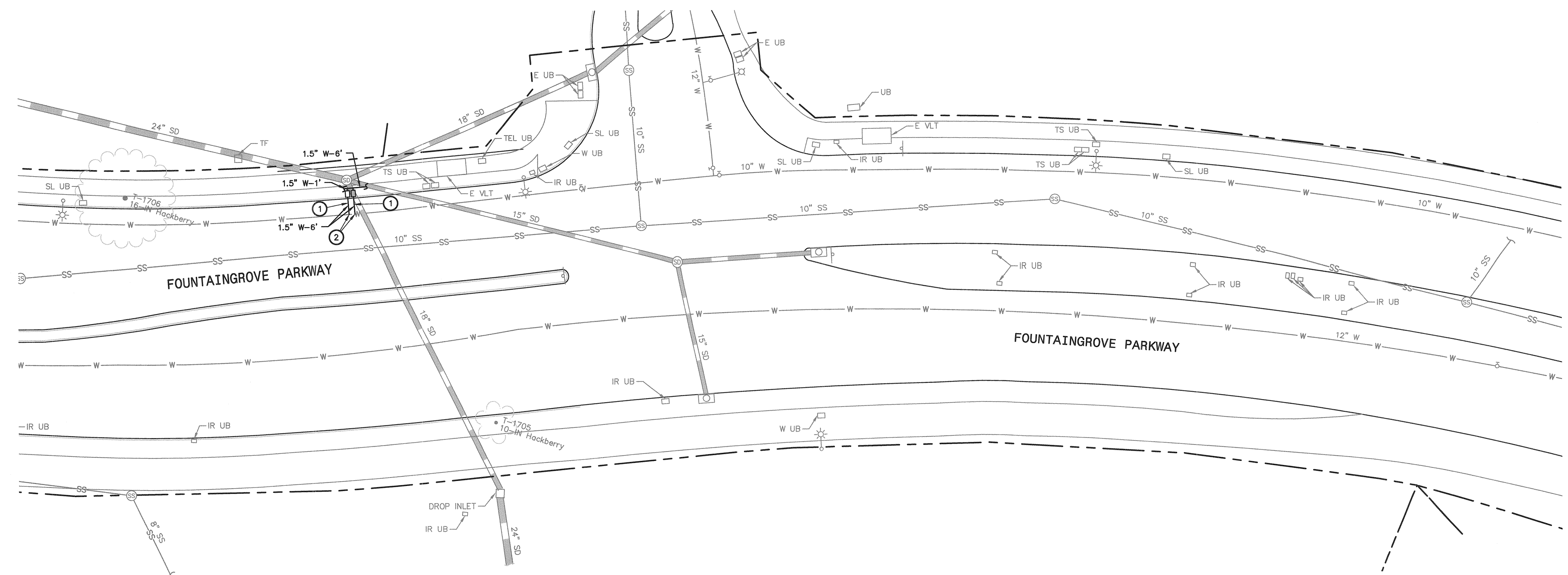
FOR UTILITY LEGEND AND NOTES
SEE SHEET 50

C1.02

Plot: May 19, 2021 at 10:41am
190777_SITE_FG.dwg

NO.	DATE	REVISION	BY

- KEYNOTES**
- 1 PROVIDE 1.5-INCH IRRIGATION WATER SERVICE WITH 1" METER IN ACCORDANCE WITH CITY OF SANTA ROSA STANDARD 863-C. REFER TO IRRIGATION DRAWINGS FOR CONTINUATION.
 - 2 PROVIDE 1.5-INCH HOT TAP BY CITY FORCES AT THE CONTRACTOR'S EXPENSE. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.

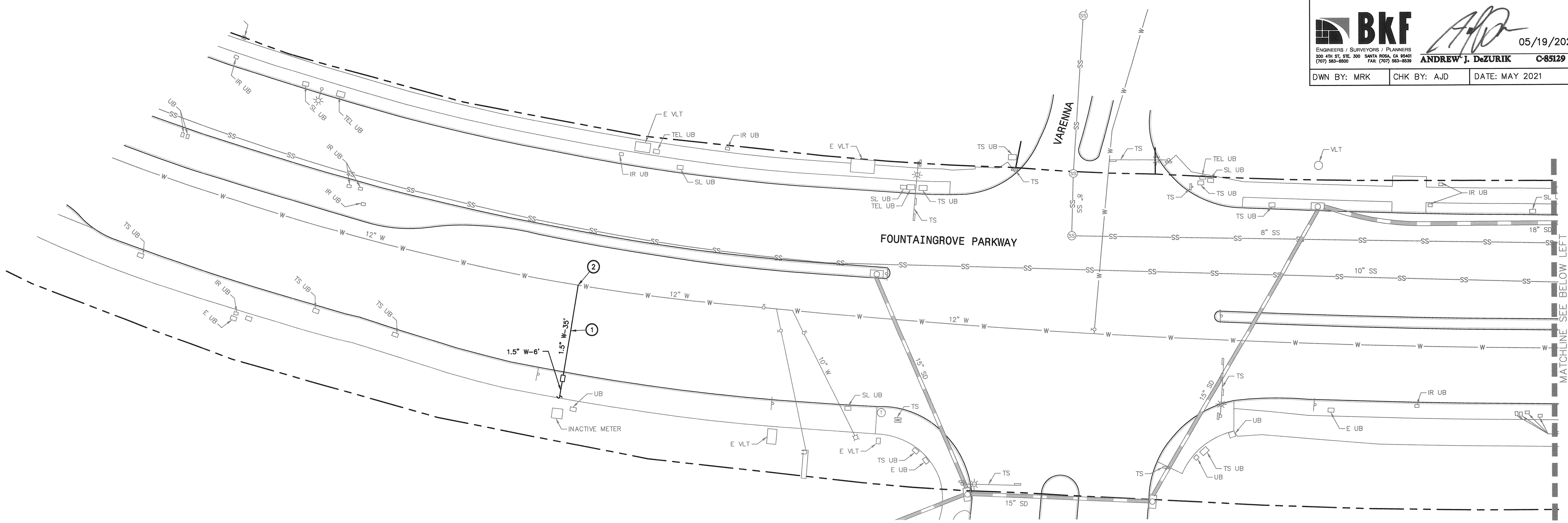


FOR UTILITY LEGEND AND NOTES
SEE SHEET 50

Plot: May 19, 2021 at 10:43am
190777_SITE_F6.dwg

SCALE: AS SHOWN | DATE: 05/05/2021 | CHK BY: AJD
DWN BY: MRK

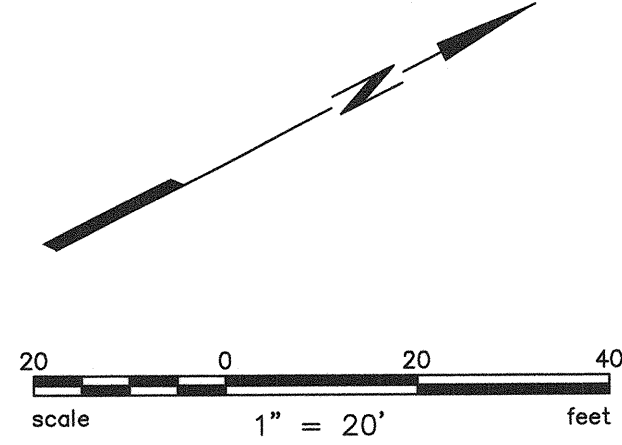
CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING
UTILITY PLAN
CONTRACT NO. CO2300
SHEET 52 OF 139
FILE NO. 2020-0011
C1.06



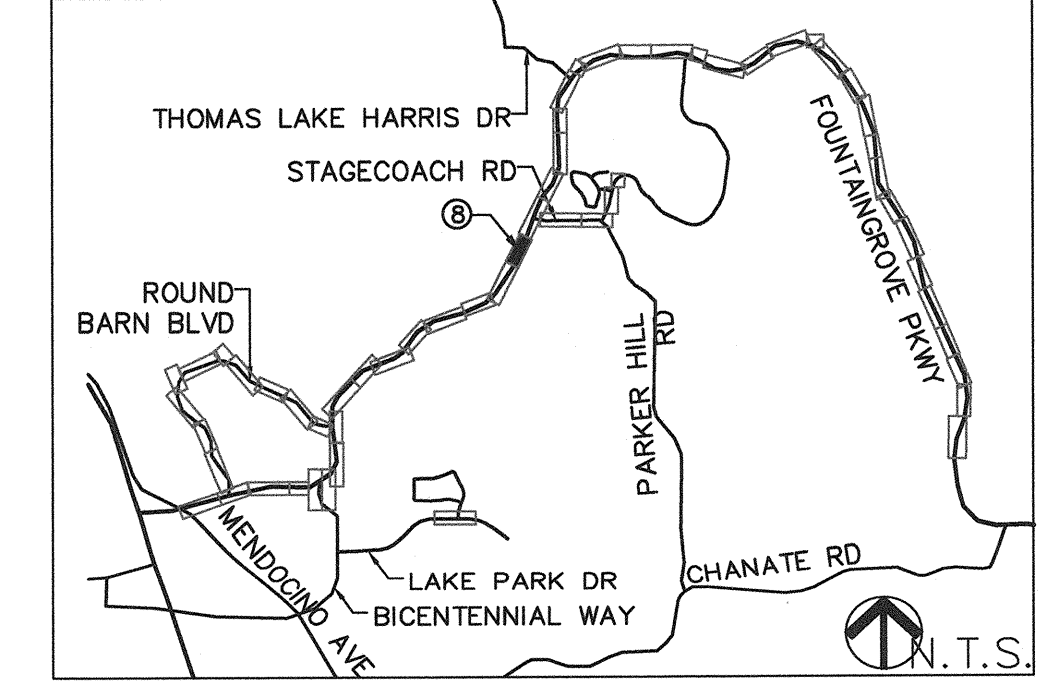
NO.	DATE	REVISION	BY

KEYNOTES

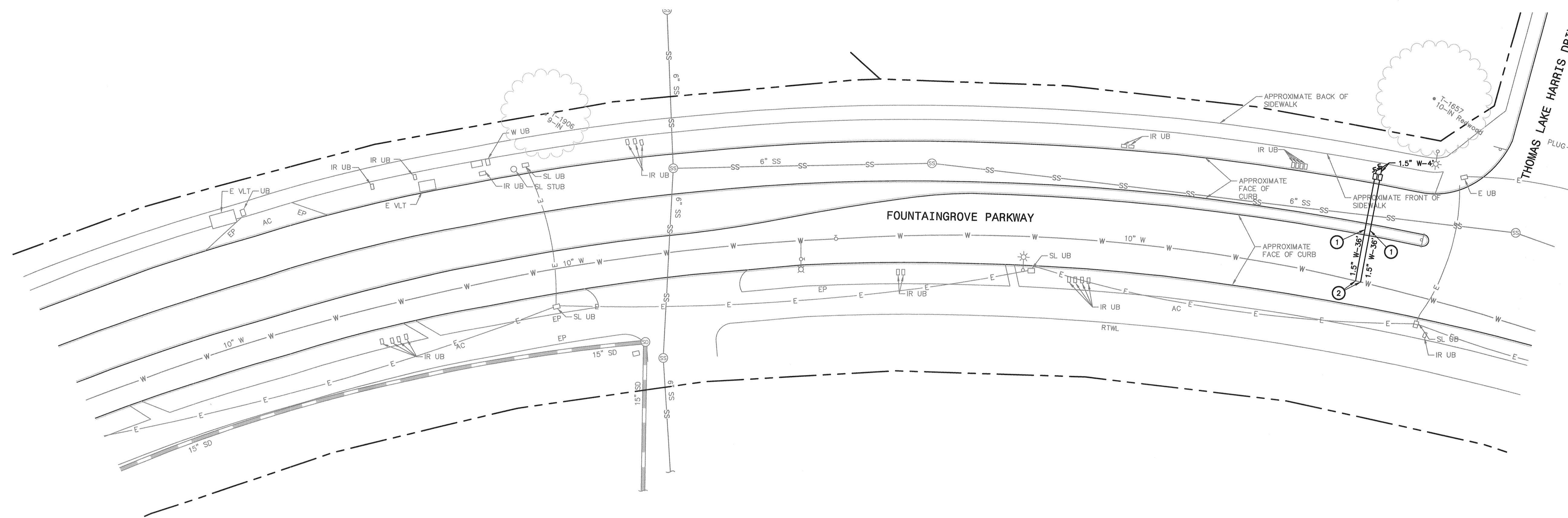
- ① PROVIDE 1.5-INCH IRRIGATION WATER SERVICE WITH 1" METER IN ACCORDANCE WITH CITY OF SANTA ROSA STANDARD 863-C. REFER TO IRRIGATION DRAWINGS FOR CONTINUATION.
- ② PROVIDE 1.5-INCH HOT TAP BY CITY FORCES AT THE CONTRACTOR'S EXPENSE. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.



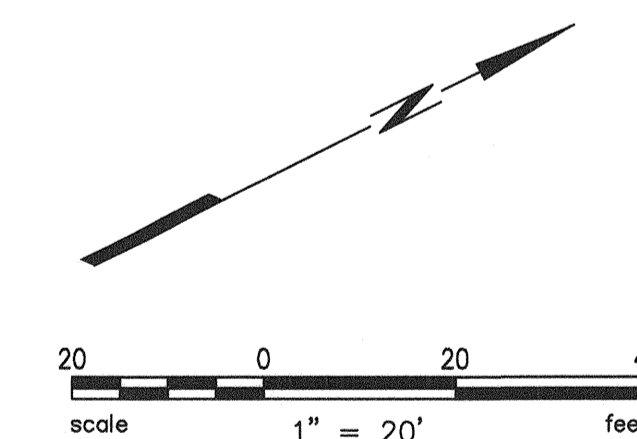
KEY MAP



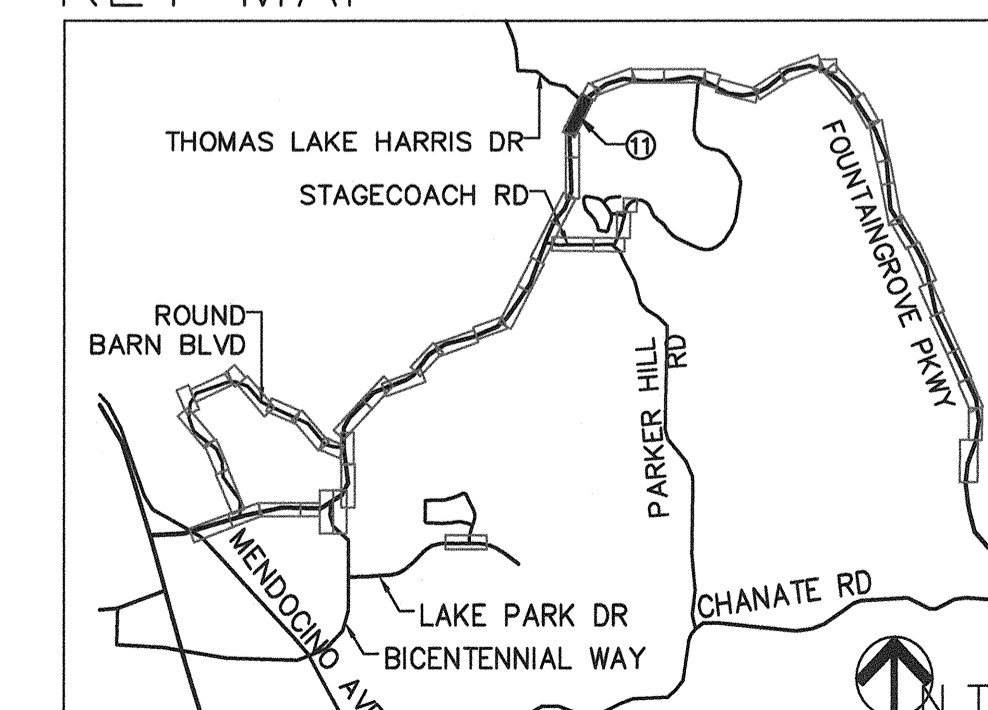
FOR UTILITY LEGEND AND NOTES
SEE SHEET 50



- KEYNOTES**
- ① PROVIDE 1.5-INCH IRRIGATION WATER SERVICE WITH 1" METER IN ACCORDANCE WITH CITY OF SANTA ROSA STANDARD 863-C. REFER TO IRRIGATION DRAWINGS FOR CONTINUATION.
 - ② PROVIDE 1.5-INCH HOT TAP BY CITY FORCES AT THE CONTRACTOR'S EXPENSE. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.



KEY MAP

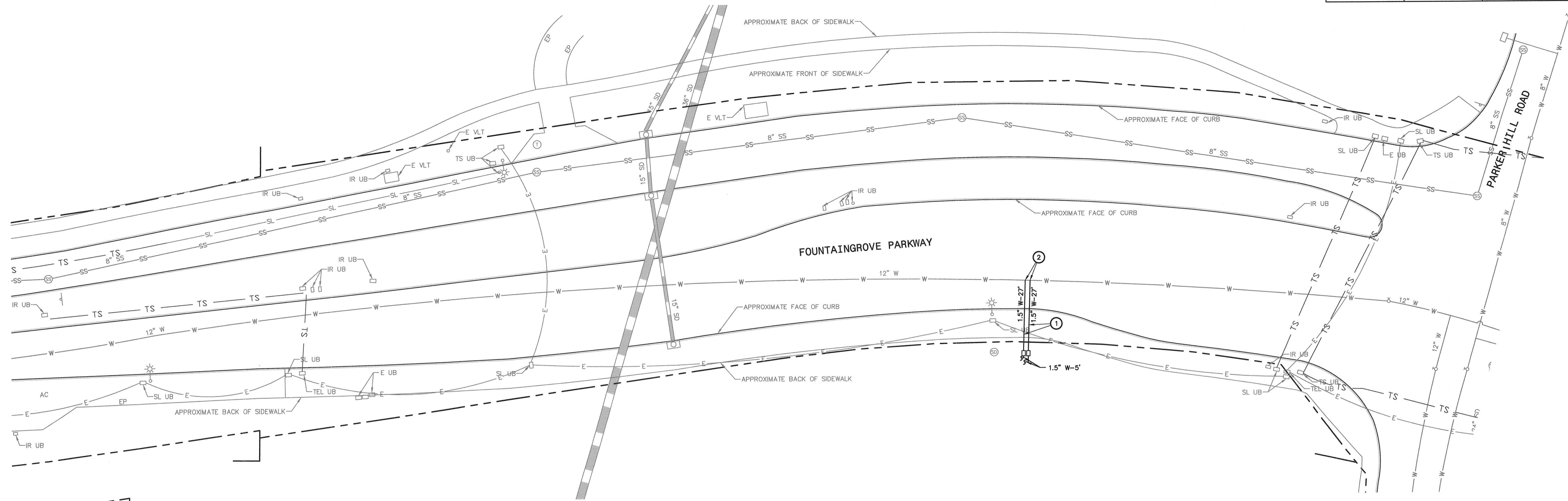


NO.	DATE	REVISION	BY

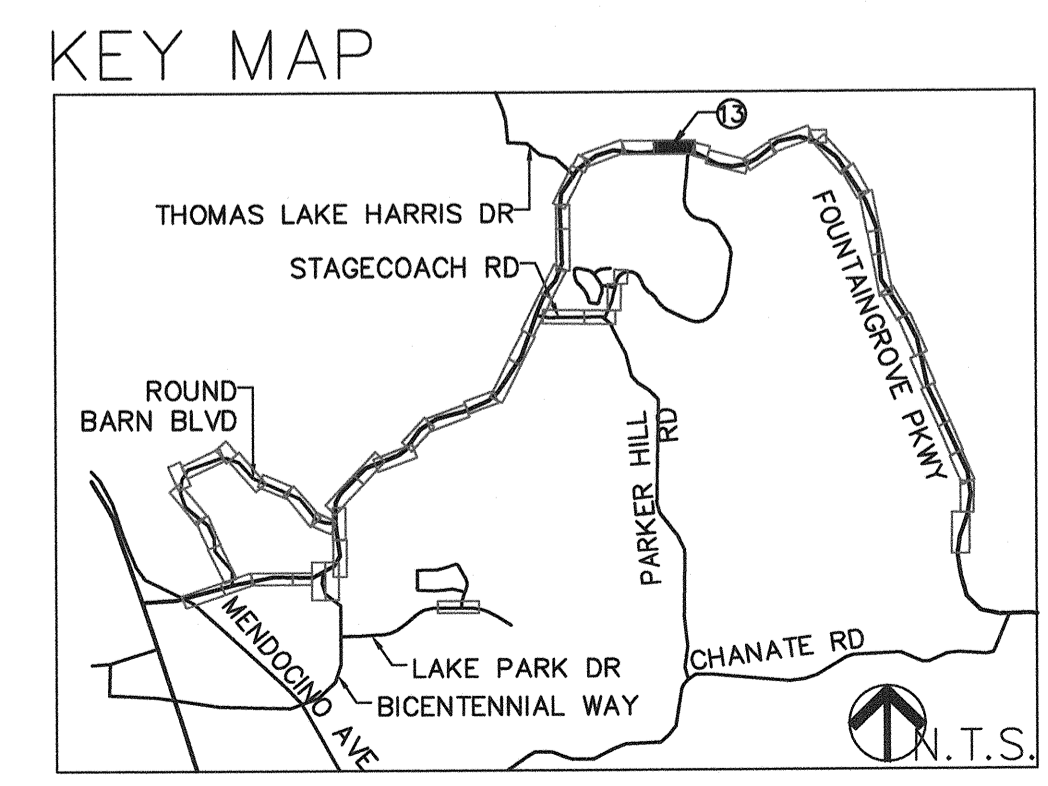
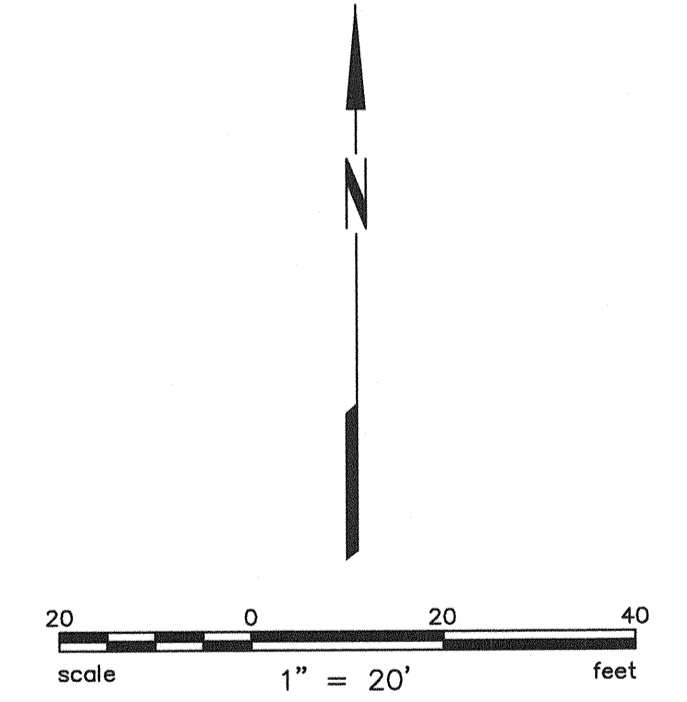
SCALE: AS SHOWN	DATE: 05/05/2021
DWN BY: MRK	CHK BY: AJD

CITY OF SANTA ROSA	CONTRACT NO. CO2300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 54 OF 139
UTILITY PLAN	FILE NO. 2020-0011

FOR UTILITY LEGEND AND NOTES
SEE SHEET 50



- KEYNOTES**
- ① PROVIDE 1.5-INCH IRRIGATION WATER SERVICE WITH 1" METER IN ACCORDANCE WITH CITY OF SANTA ROSA STANDARD 863-C. REFER TO IRRIGATION DRAWINGS FOR CONTINUATION.
 - ② PROVIDE 1.5-INCH HOT TAP BY CITY FORCES AT THE CONTRACTOR'S EXPENSE. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.



NO.	DATE	REVISION	BY

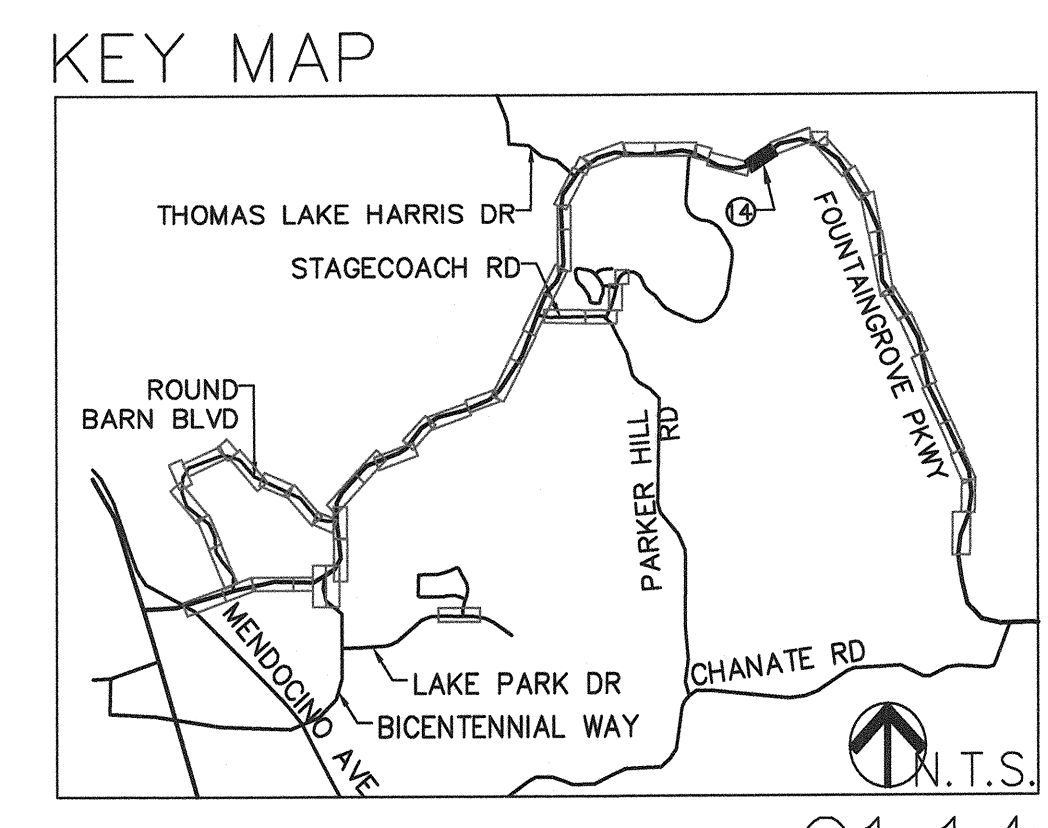
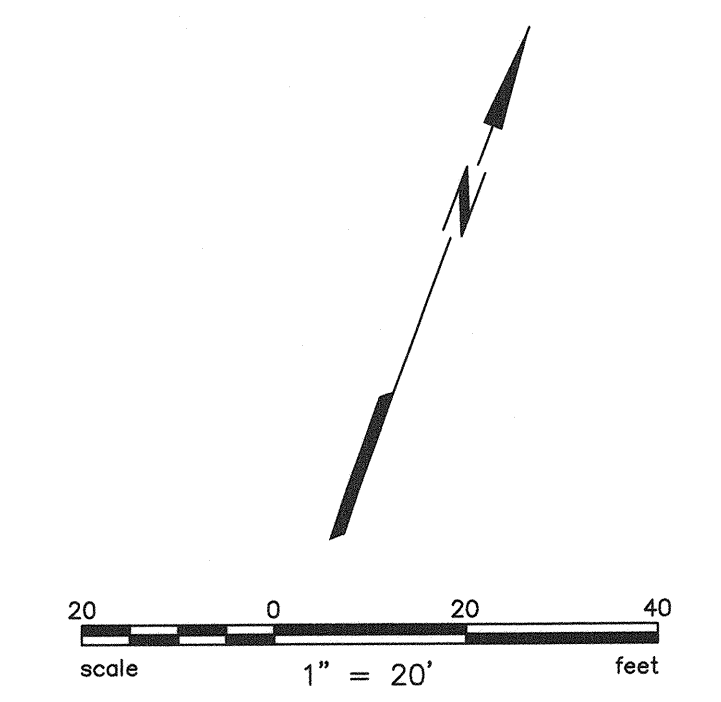
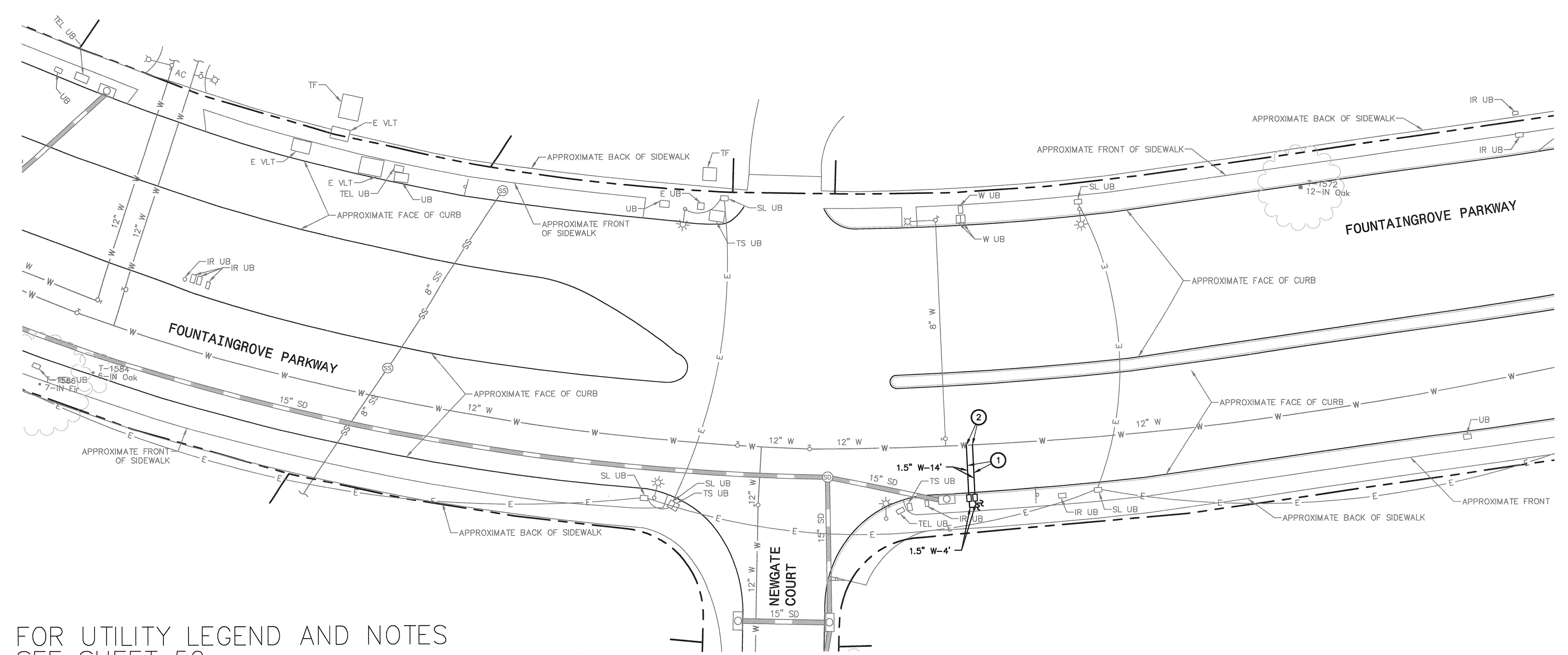
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DWN BY: MRK	CHK BY: AJD

CITY OF SANTA ROSA	CONTRACT NO. CO2300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 55 OF 139
UTILITY PLAN	FILE NO. 2020-0011

FOR UTILITY LEGEND AND NOTES
SEE SHEET 50

NO.	DATE	REVISION	BY

- KEYNOTES**
- 1 PROVIDE 1.5-INCH IRRIGATION WATER SERVICE WITH 1" METER IN ACCORDANCE WITH CITY OF SANTA ROSA STANDARD 863-C. REFER TO IRRIGATION DRAWINGS FOR CONTINUATION.
 - 2 PROVIDE 1.5-INCH HOT TAP BY CITY FORCES AT THE CONTRACTOR'S EXPENSE. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.



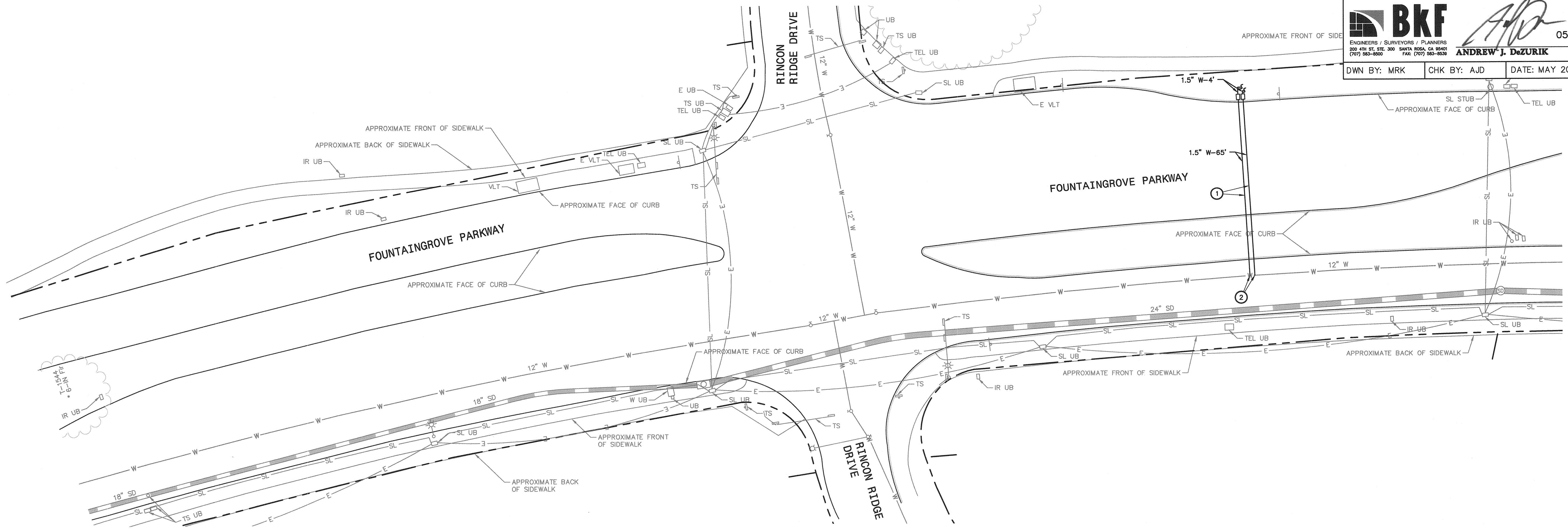
FOR UTILITY LEGEND AND NOTES SEE SHEET 50

CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING
UTILITY PLAN
CONTRACT NO. CO2300
SHEET 56 OF 139
FILE NO. 2020-0011



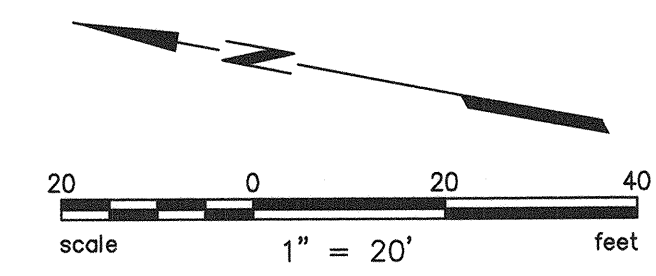
ENGINEERS / SURVEYORS / PLANNERS
 300 4TH ST. STE. 300 SANTA ROSA, CA 95401
 (707) 543-3500 FAX (707) 543-6530

ANDREW J. DeZURIK C-85129
 DWN BY: MRK CHK BY: AJD DATE: MAY 2021

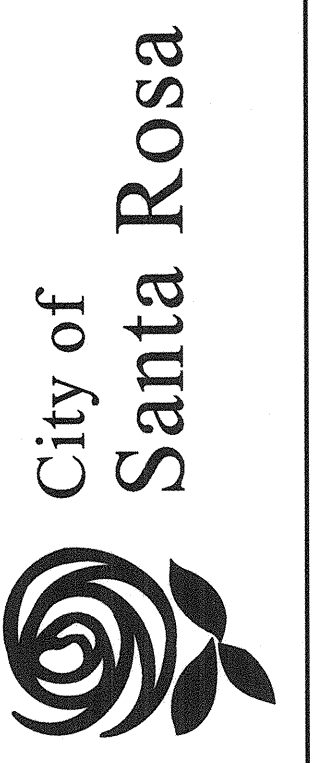
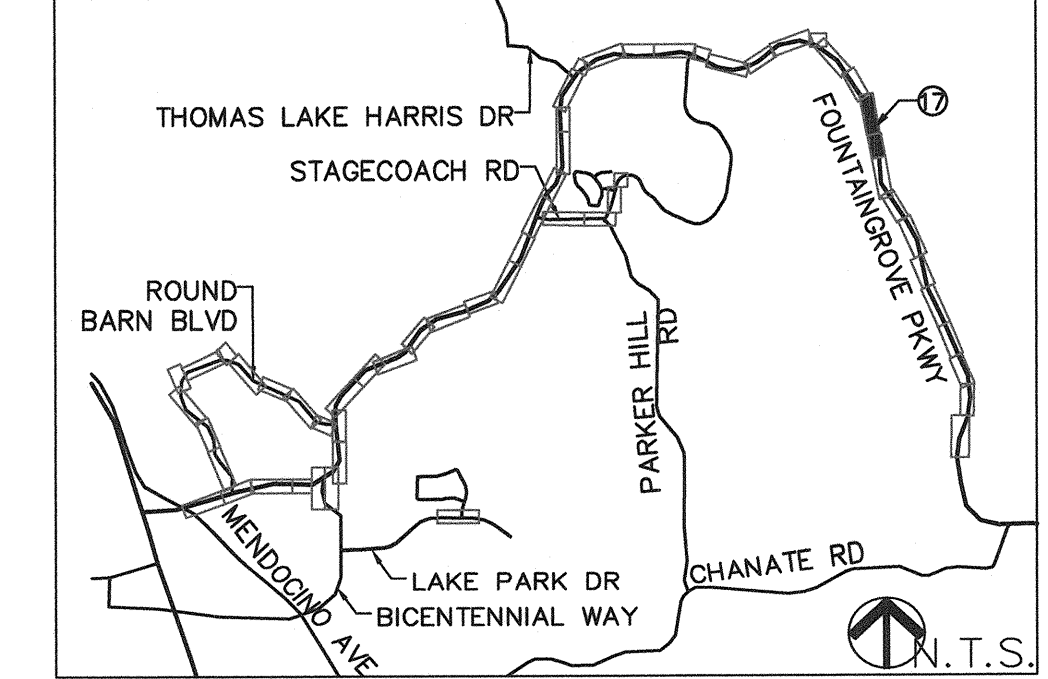


KEYNOTES

- ① PROVIDE 1.5-INCH IRRIGATION WATER SERVICE WITH 1" METER IN ACCORDANCE WITH CITY OF SANTA ROSA STANDARD 863-C. REFER TO IRRIGATION DRAWINGS FOR CONTINUATION.
- ② PROVIDE 1.5-INCH HOT TAP BY CITY FORCES AT THE CONTRACTOR'S EXPENSE. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.



KEY MAP



NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/05/2021
DWN BY: MRK	CHK BY: AJD

CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
 UTILITY PLAN

CONTRACT NO. CO2300
 SHEET 57 OF 139
 FILE NO. 2020-0011

FOR UTILITY LEGEND AND NOTES SEE SHEET 50

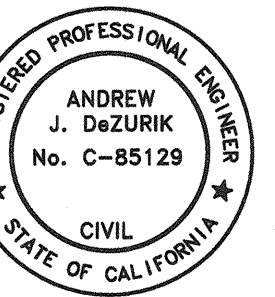
C1.17

Pld, May 19, 2021 11:10:48am 190777_SITE_FG.dwg



ANDREW J. DeZURIK
C-85129

05/19/2021



DWN BY: MRK | CHK BY: AJD | DATE: MAY 2021

KEYNOTES

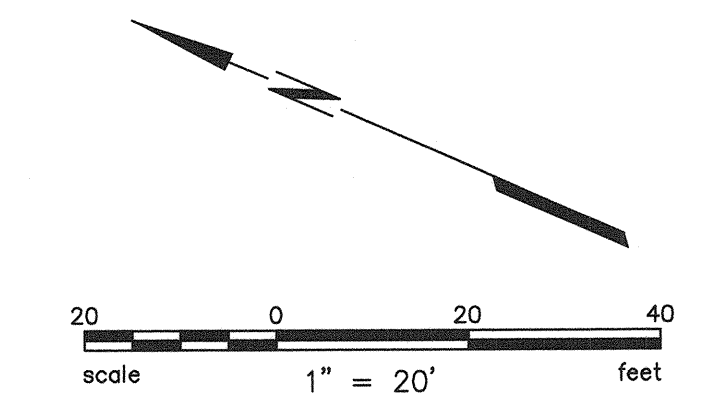
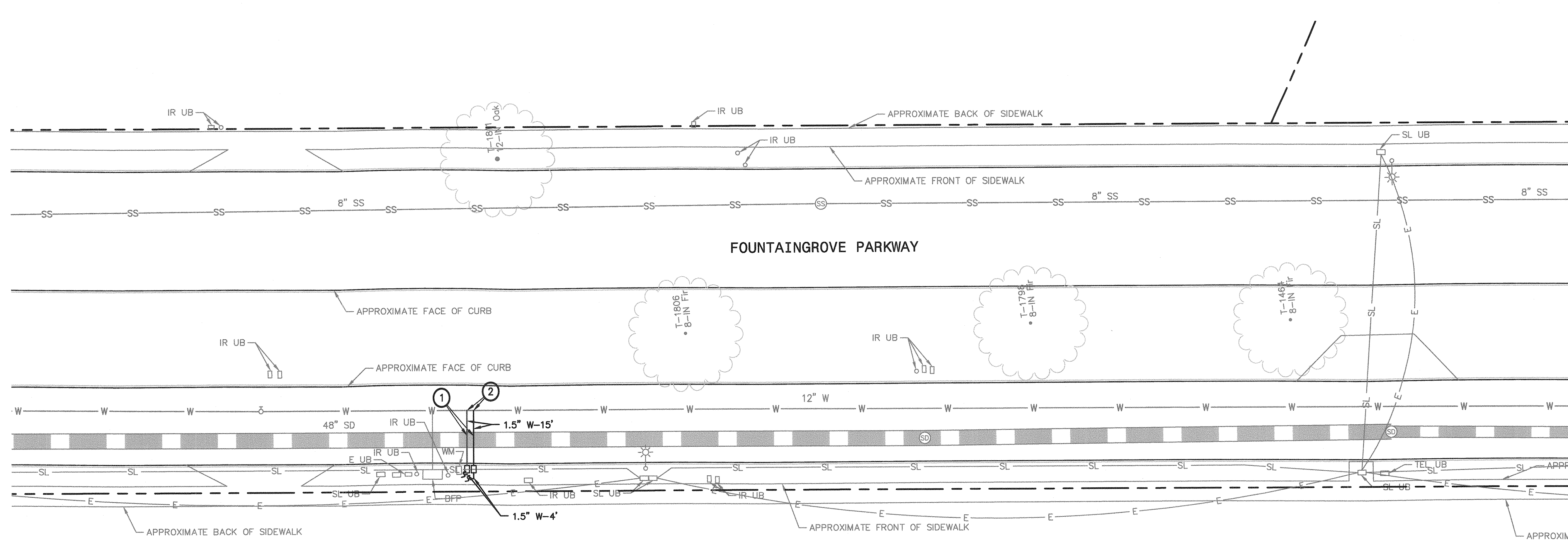
- ① PROVIDE 1.5-INCH IRRIGATION WATER SERVICE WITH 1" METER IN ACCORDANCE WITH CITY OF SANTA ROSA STANDARD 863-C. REFER TO IRRIGATION DRAWINGS FOR CONTINUATION.
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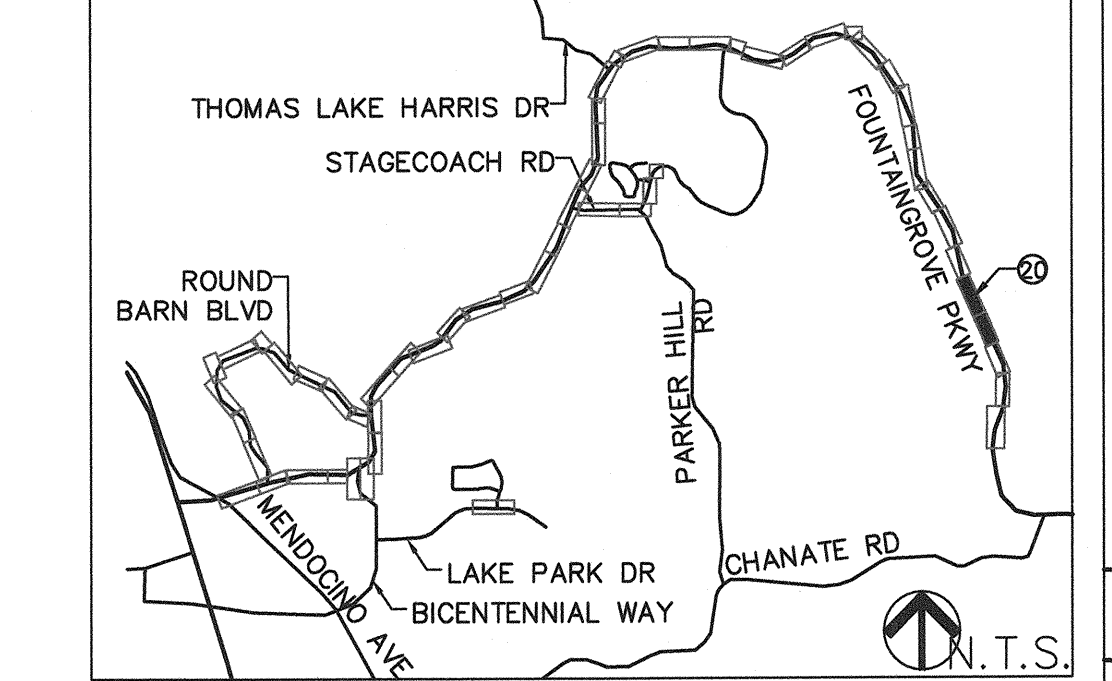
NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/05/2021	CHK BY: AJD
DWN BY: MRK		

CITY OF SANTA ROSA FIRE DAMAGED ROADWAY LANDSCAPING	UTILITY PLAN
CONTRACT NO. CO2300	SHEET 58 OF 139
	FILE NO. 2020-0011



KEY MAP



FOR UTILITY LEGEND AND NOTES SEE SHEET 50

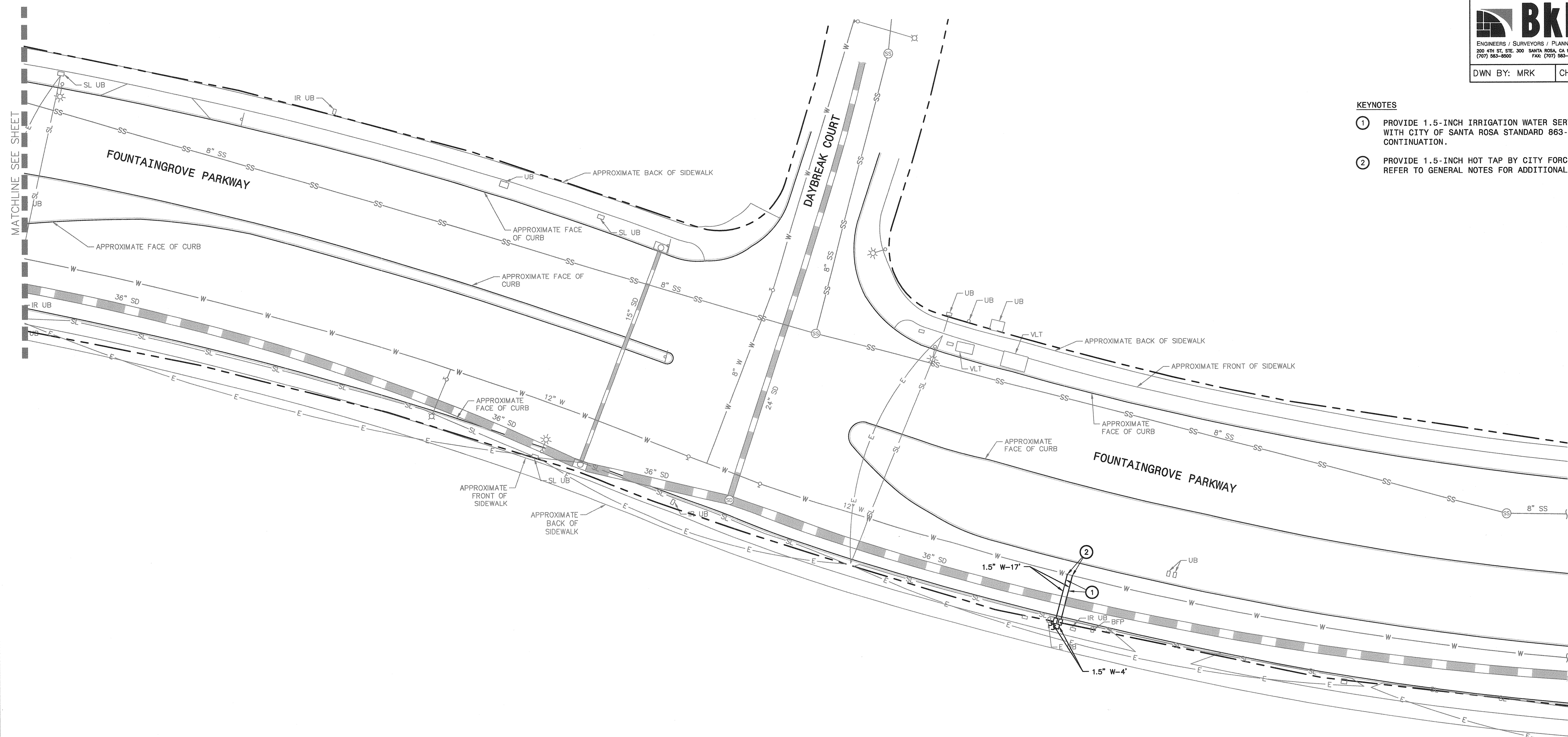
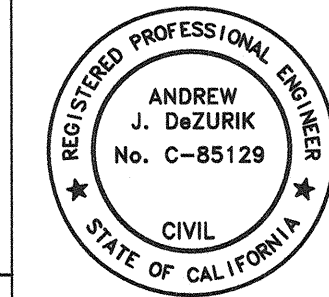
C1.20



ANDREW J. DeZURIK
C-85129

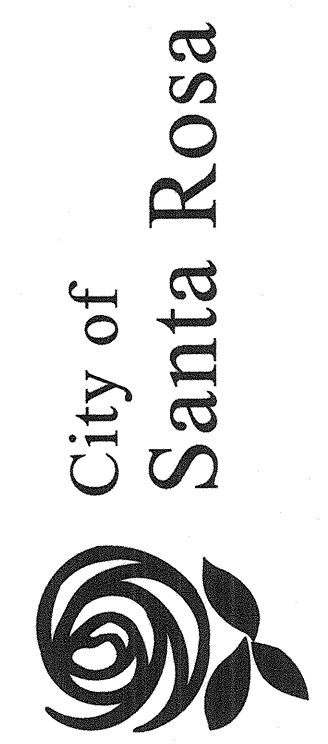
05/19/2021

DWN BY: MRK CHK BY: AJD DATE: MAY 2021



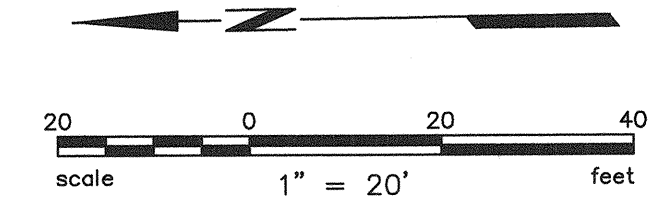
KEYNOTES

- 1 PROVIDE 1.5-INCH IRRIGATION WATER SERVICE WITH 1" METER IN ACCORDANCE WITH CITY OF SANTA ROSA STANDARD 863-C. REFER TO IRRIGATION DRAWINGS FOR CONTINUATION.
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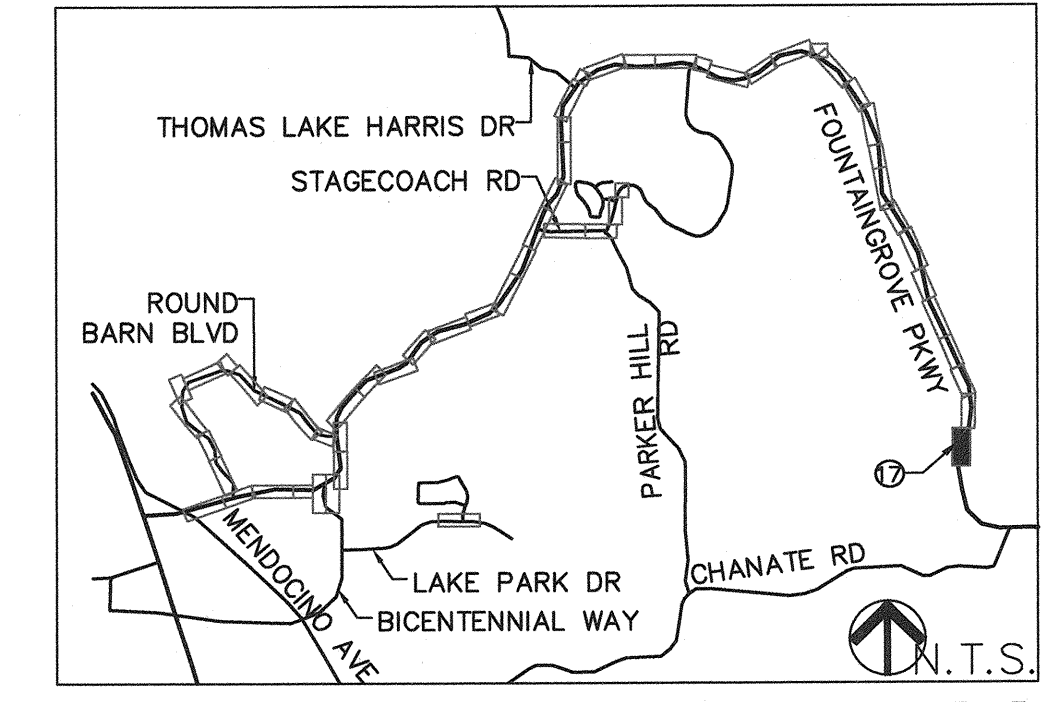


NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/05/2021
DWN BY: MRK	CHK BY: AJD



KEY MAP



FOR UTILITY LEGEND AND NOTES SEE SHEET 50

CITY OF SANTA ROSA	CONTRACT NO. CO2300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 59 OF 139
UTILITY PLAN	FILE NO. 2020-0011

C1.22

Plot: May 19, 2021 at 10:50am

190777_SITE_FG.dwg



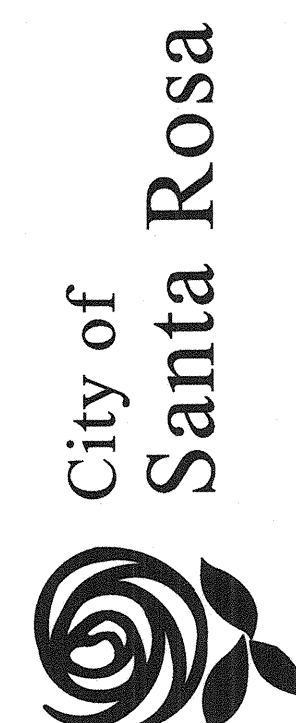
ANDREW J. DeZURIK
C-85129

05/19/2021

DWN BY: MRK

CHK BY: AJD

DATE: MAY 2021



KEYNOTES

- ① PROVIDE 1.5-INCH IRRIGATION WATER SERVICE WITH 1" METER IN ACCORDANCE WITH CITY OF SANTA ROSA STANDARD 863-C. REFER TO IRRIGATION DRAWINGS FOR CONTINUATION.
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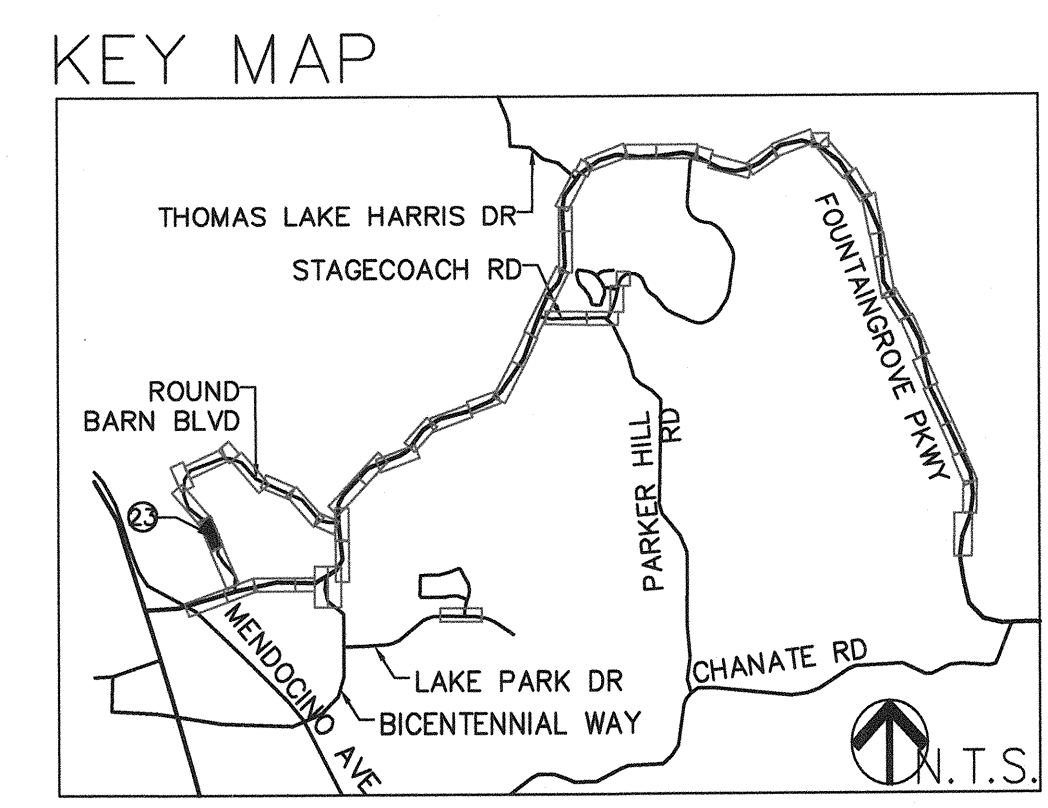
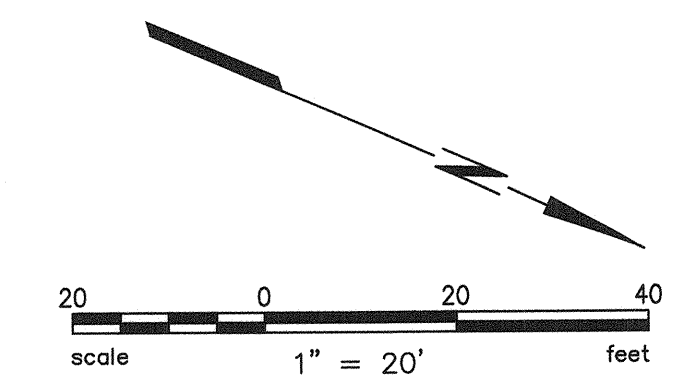
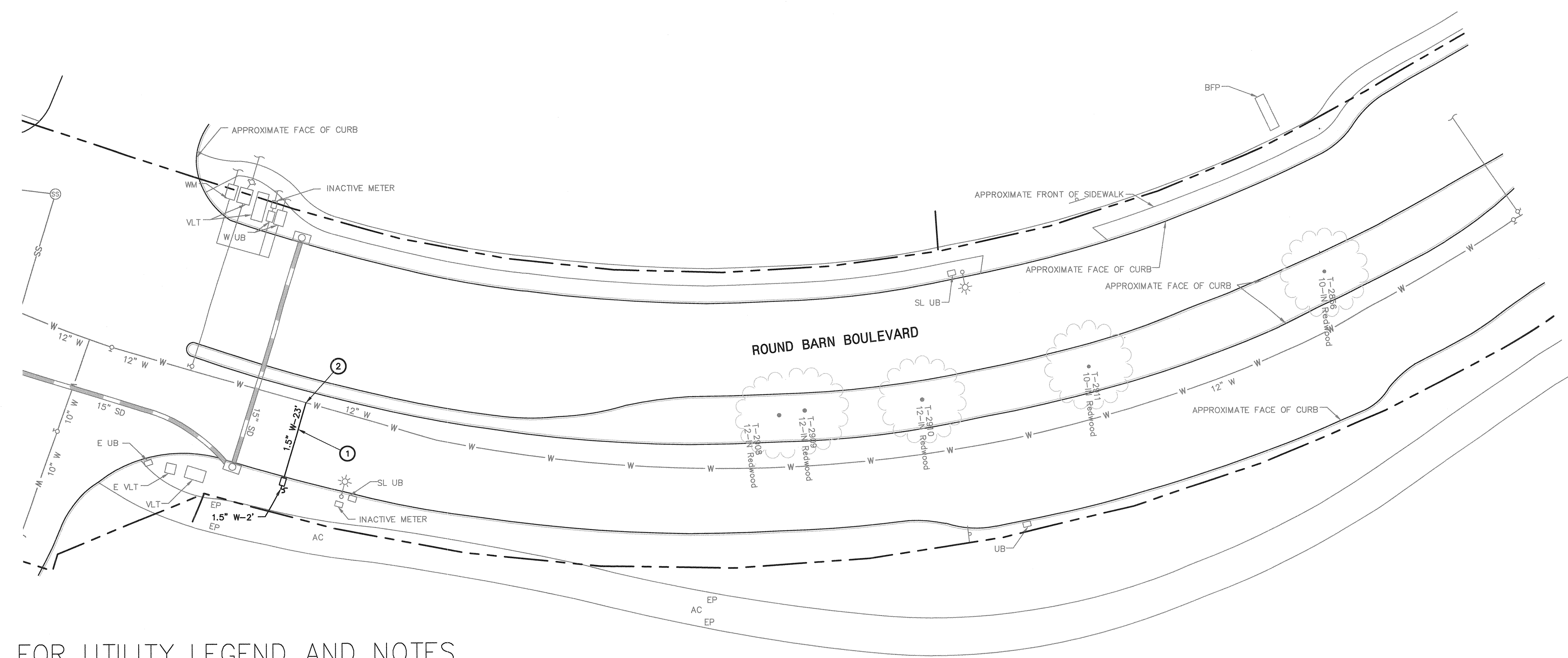
NO.	DATE	REVISION	BY

CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING
UTILITY PLAN

SCALE: AS SHOWN
DWN BY: MRK

DATE: 05/05/2021
CHK BY: AJD

CONTRACT NO. CO2300
SHEET 60 OF 139
FILE NO. 2020-0011



FOR UTILITY LEGEND AND NOTES
SEE SHEET 50

C1.23

Plot May 16, 2021 at 10:51am
190777_SITE_FG.dwg



ANDREW J. DeZURIK
C-85129

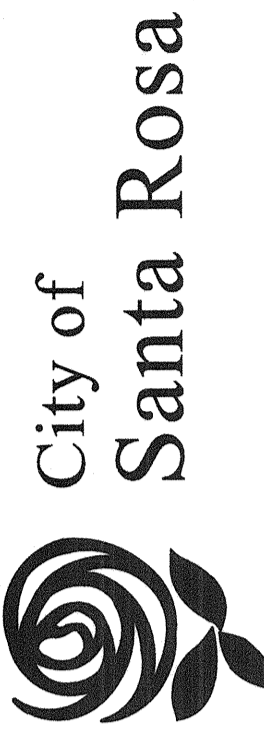
05/19/2021



DWN BY: MRK | CHK BY: AJD | DATE: MAY 2021

KEYNOTES

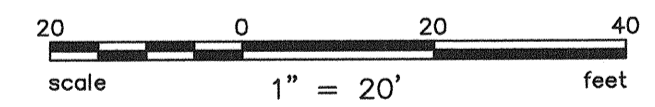
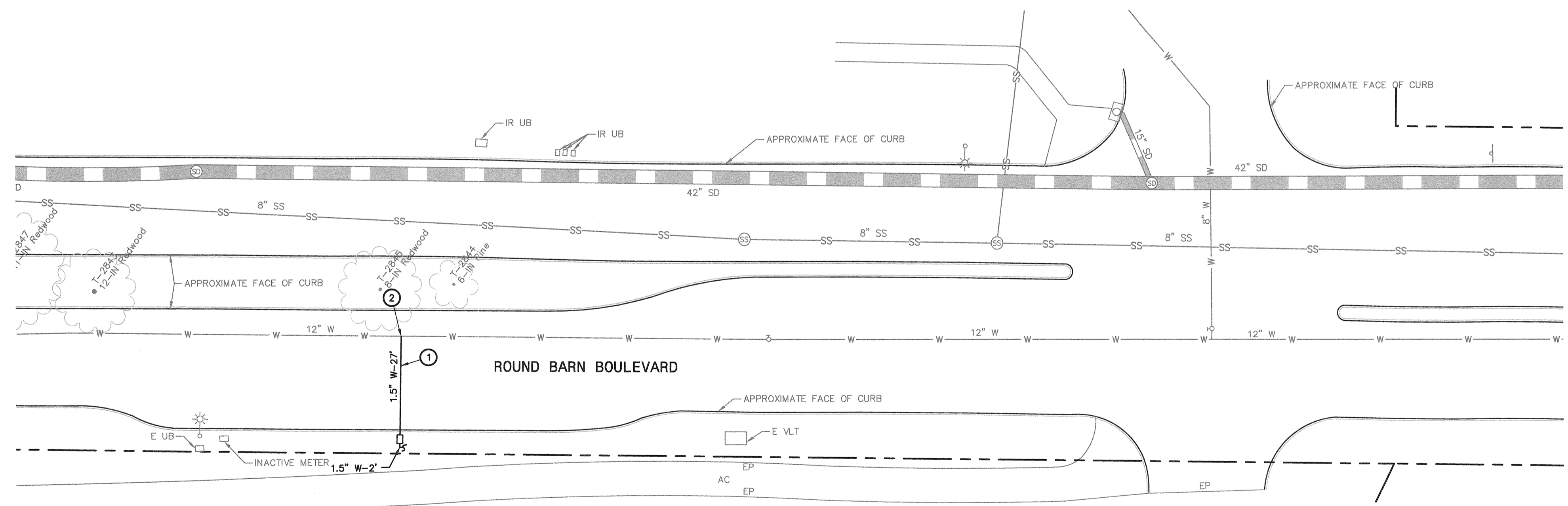
- 1 PROVIDE 1.5-INCH IRRIGATION WATER SERVICE WITH 1" METER IN ACCORDANCE WITH CITY OF SANTA ROSA STANDARD 863-C. REFER TO IRRIGATION DRAWINGS FOR CONTINUATION.
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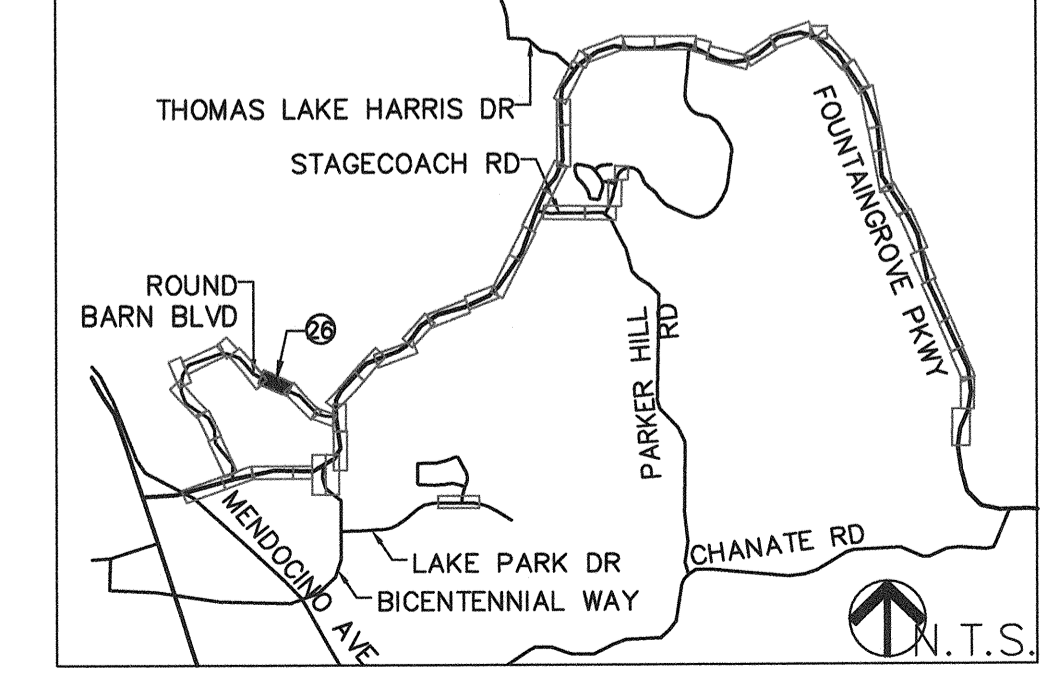
NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/05/2021
DWN BY: MRK	CHK BY: AJD

CITY OF SANTA ROSA	CONTRACT NO. CO2300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 61 OF 139
UTILITY PLAN	FILE NO. 2020-0011



KEY MAP



N.T.S. C1.26

FOR UTILITY LEGEND AND NOTES SEE SHEET 50

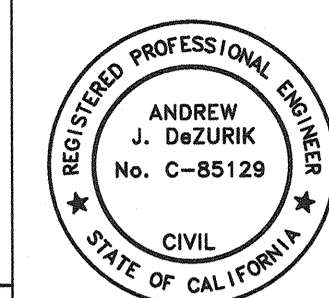
Plot: May 19, 2021 at 10:52am 190777_SITE_FG.dwg



ENGINEERS / SURVEYORS / PLANNERS
 200 4TH ST. STE. 200 SANTA ROSA, CA 95401
 (707) 565-9500 FAX: (707) 565-9039

ANDREW J. DeZURIK C-85129

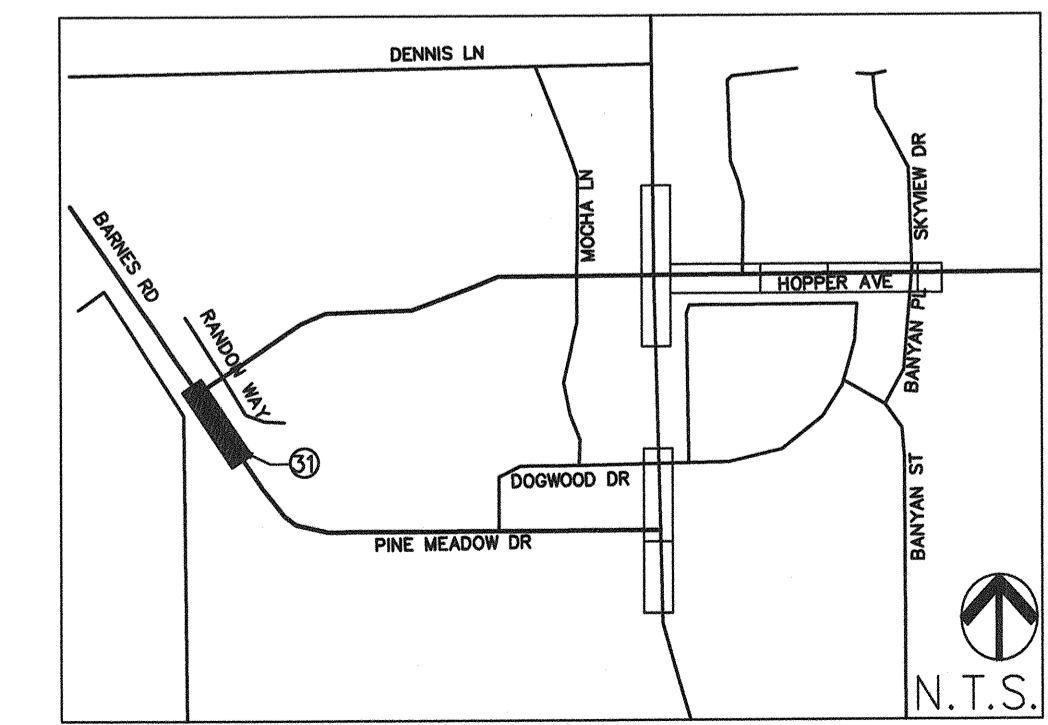
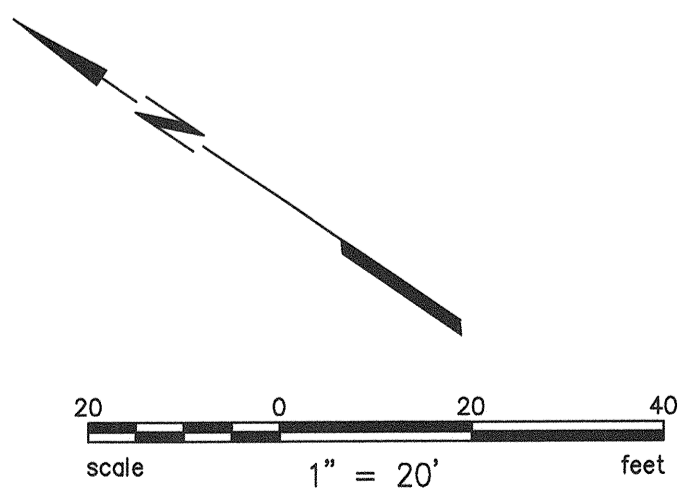
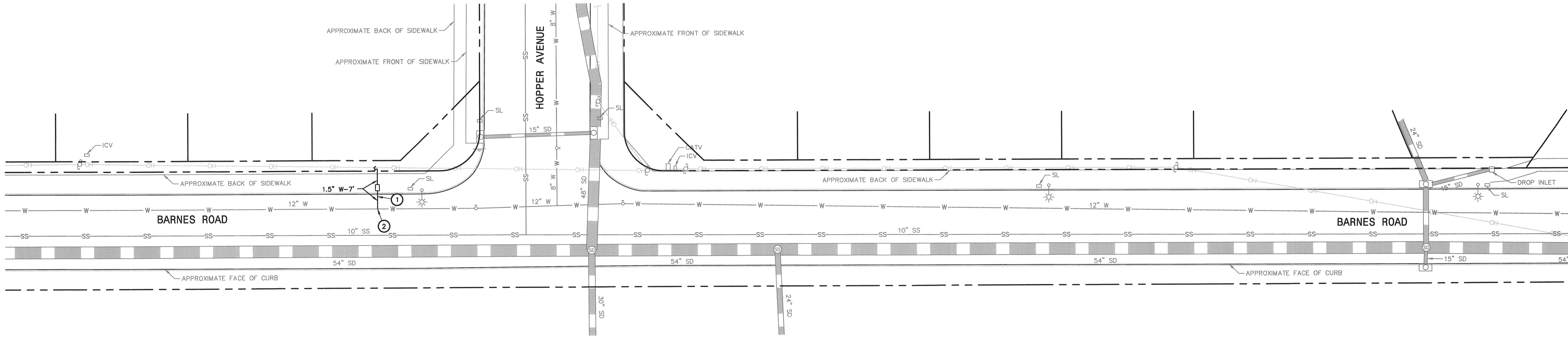
05/19/2021



DWN BY: MRK CHK BY: AJD DATE: MAY 2021

KEYNOTES

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- ② PROVIDE 1.5-INCH HOT TAP BY CITY FORCES AT THE CONTRACTOR'S EXPENSE. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.



DESIGN/CONST	DATE	NO.	REVISION	BY	DEPT.	SIGNATURE	DATE
SURVEY							
MATERIALS LAB							
TRAFFIC							
REC & PARKS							
STORMWATER							

DATE: 05/05/2021
 CHK BY: AJD
 SCALE: AS SHOWN
 DWN BY: MRK
 APPROVED: Deputy Director - Engineering
 By: Lori Urbonsek

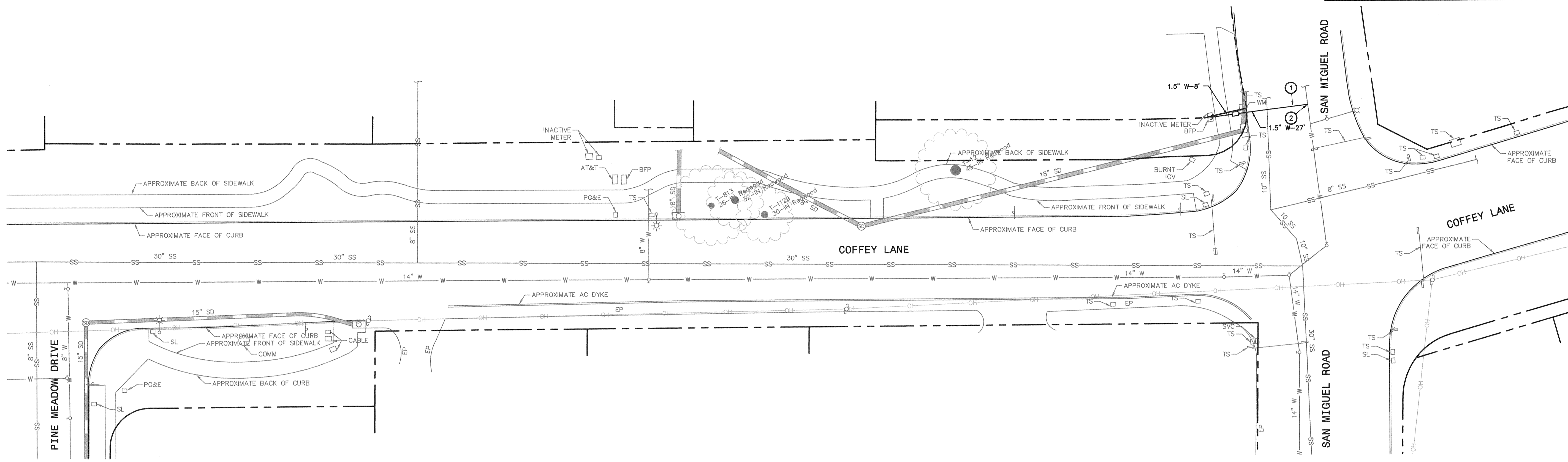
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
 UTILITY PLAN
 CONTRACT NO. CO2300
 SHEET 62 OF 139
 FILE NO. 2020-0011

FOR UTILITY LEGEND AND NOTES
 SEE SHEET 50

Plot: May 19, 2021 at: 11:02am

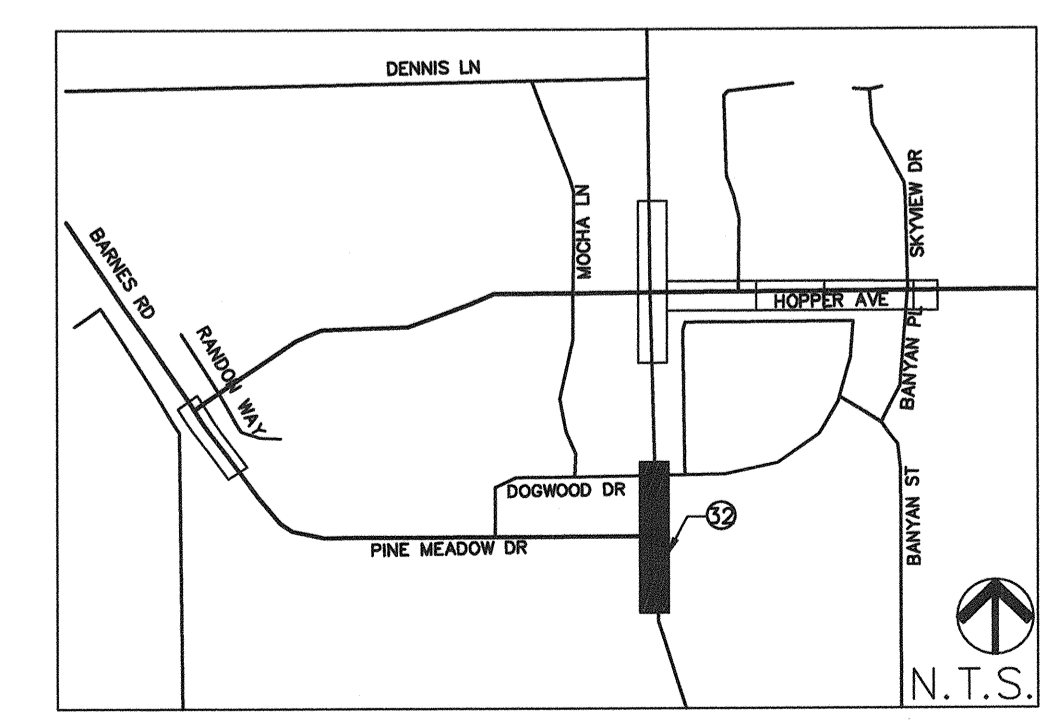
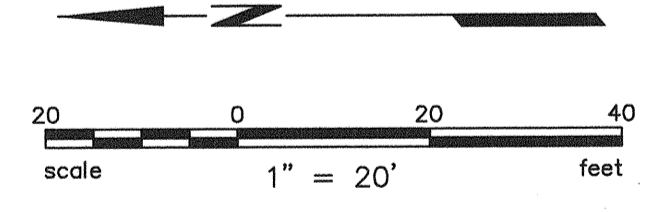
190777_SITE_CP.dwg

C1.31



KEYNOTES

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- ② PROVIDE 1.5-INCH HOT TAP BY CITY FORCES AT THE CONTRACTOR'S EXPENSE. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.



DESIGN/CONST	DATE	BY	REVISION	NO.	DATE	DEPT.	SIGNATURE	DATE
SURVEY	05/05/2021	MRK						
MATERIALS LAB								
TRAFFIC								
REC & PARKS								
STORMWATER								

SCALE: AS SHOWN	DATE: 05/05/2021
DWN BY: MRK	CHK BY: AJD
APPROVED: Deputy Director - Engineering	
By: Lori Urbaneck	Date: _____

CITY OF SANTA ROSA	CONTRACT NO. CO2300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 63 OF 139
UTILITY PLAN	FILE NO. 2020-0011

"I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN."

BROOKWATER
IRRIGATION CONSULTANTS
480 ST. JOHN STREET, SUITE 220
PLEASANTON, CALIFORNIA 94566
TEL 925.855.0417
E-MAIL: OFFICE@BROOKWATER.COM



City of
Santa Rosa

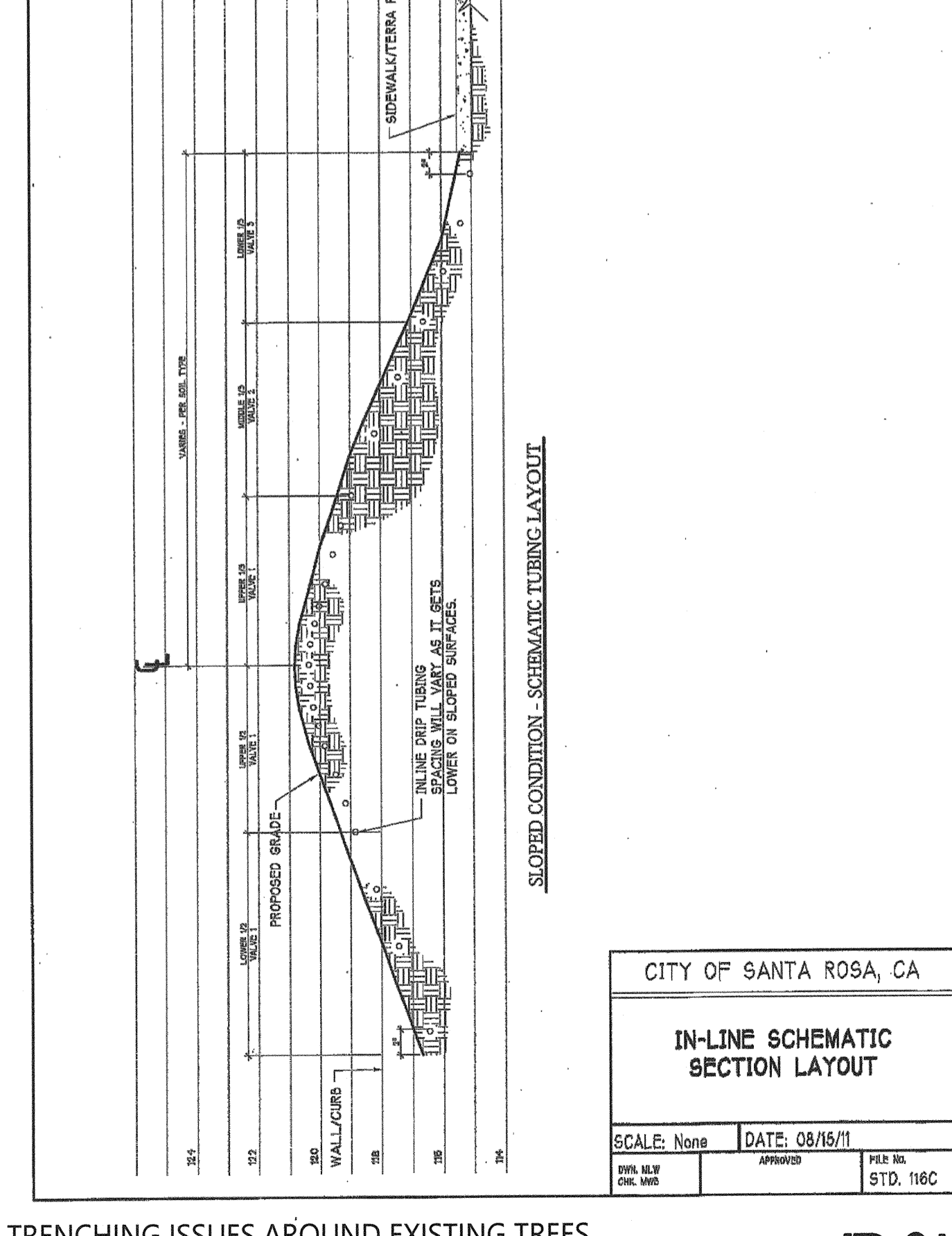
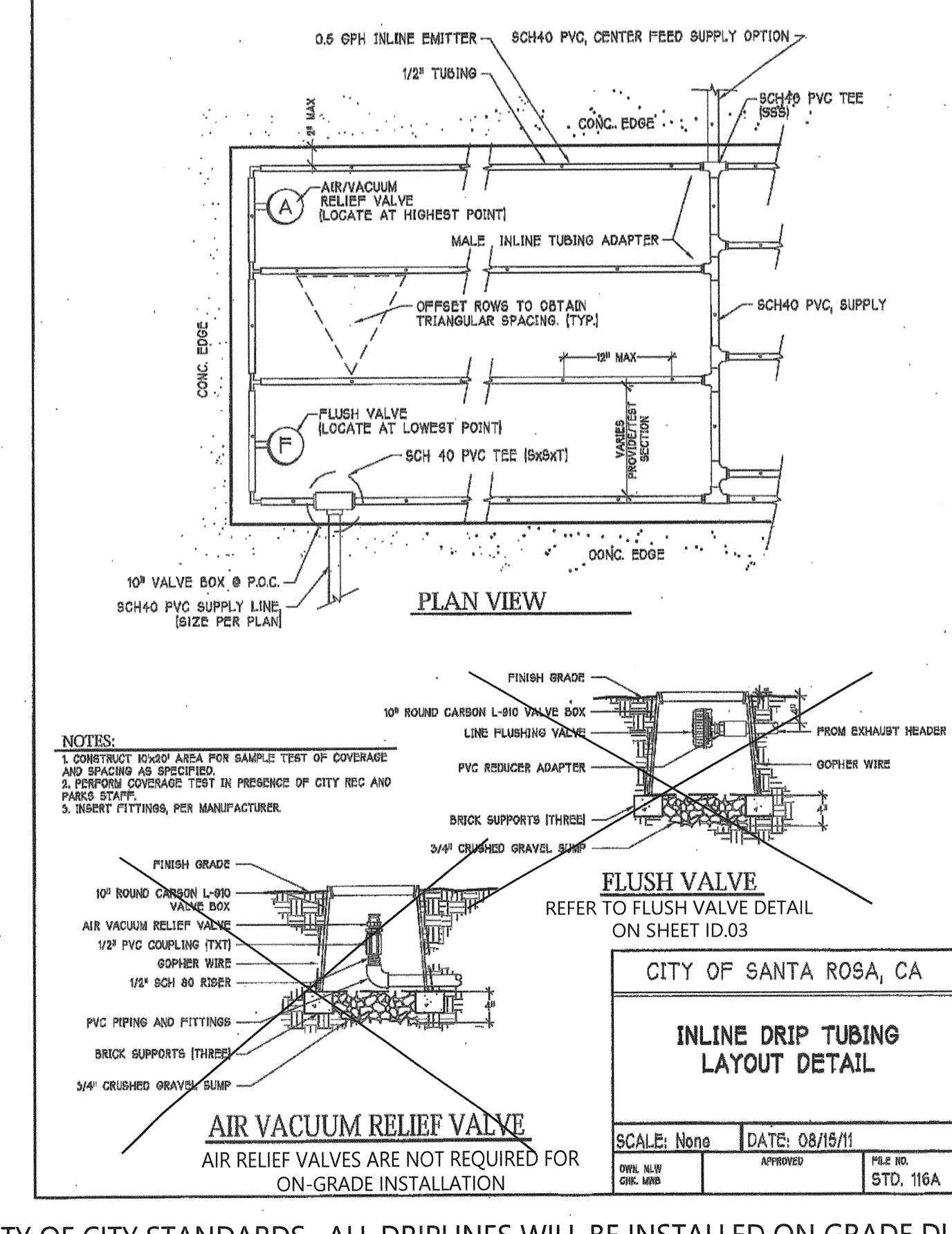
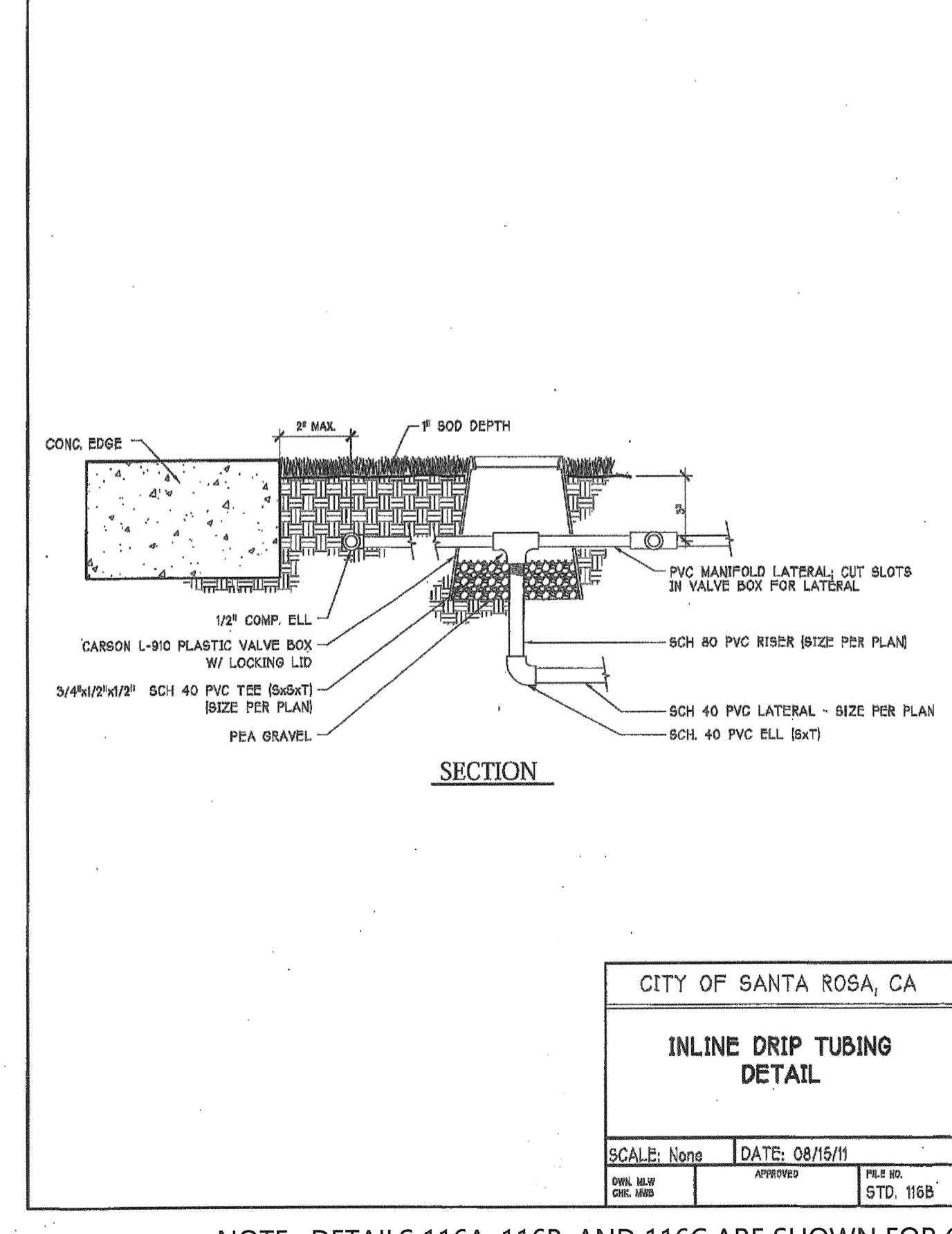
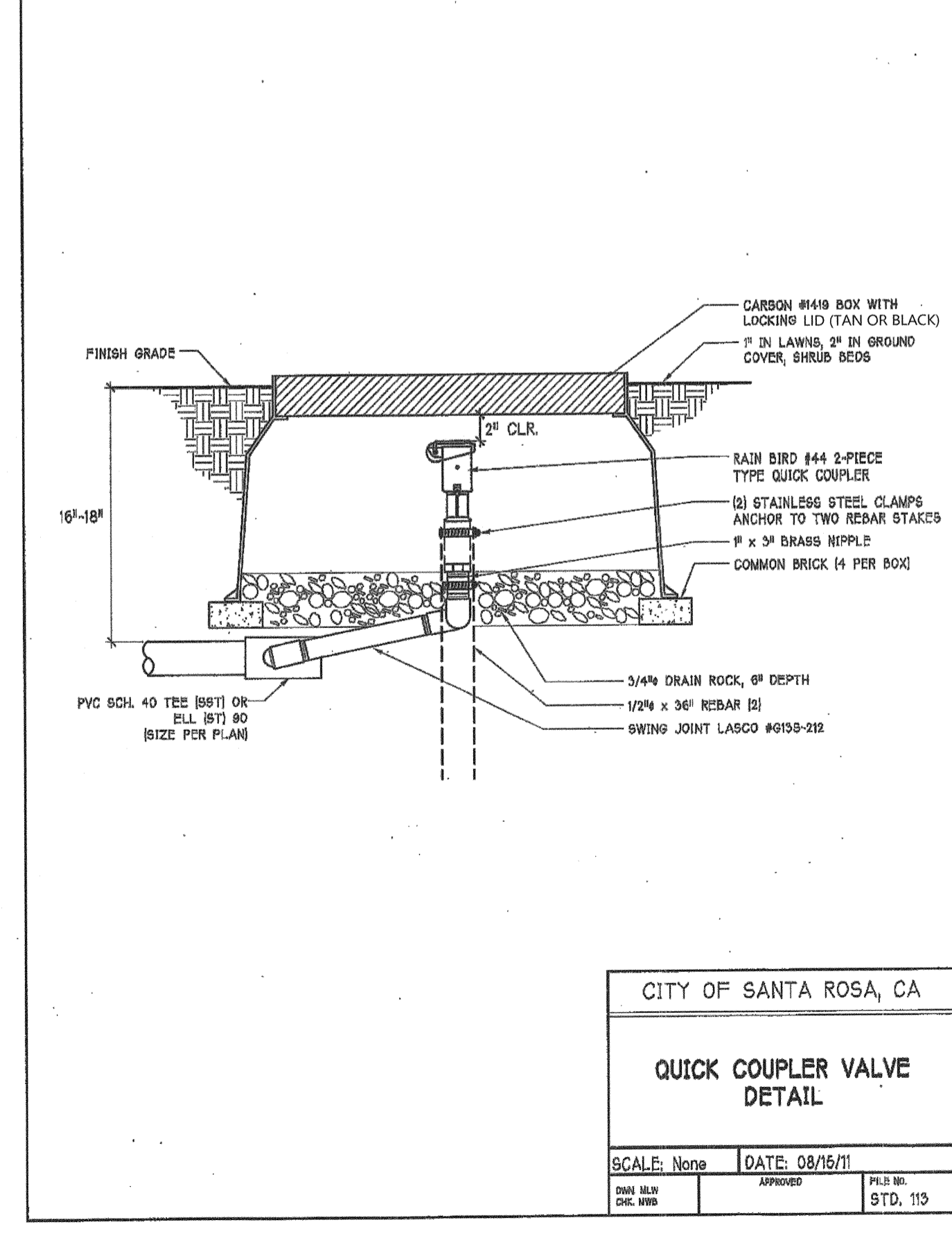
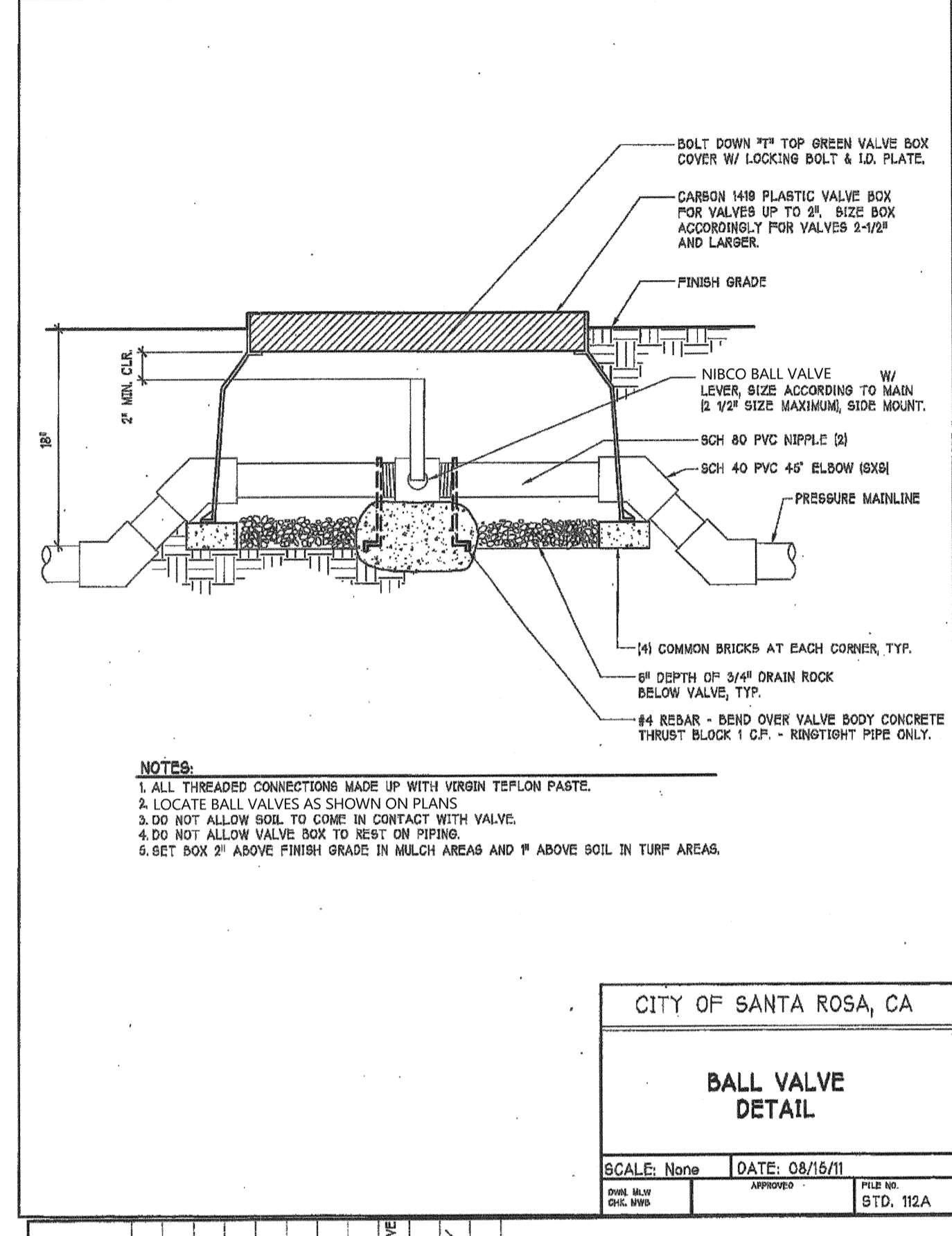
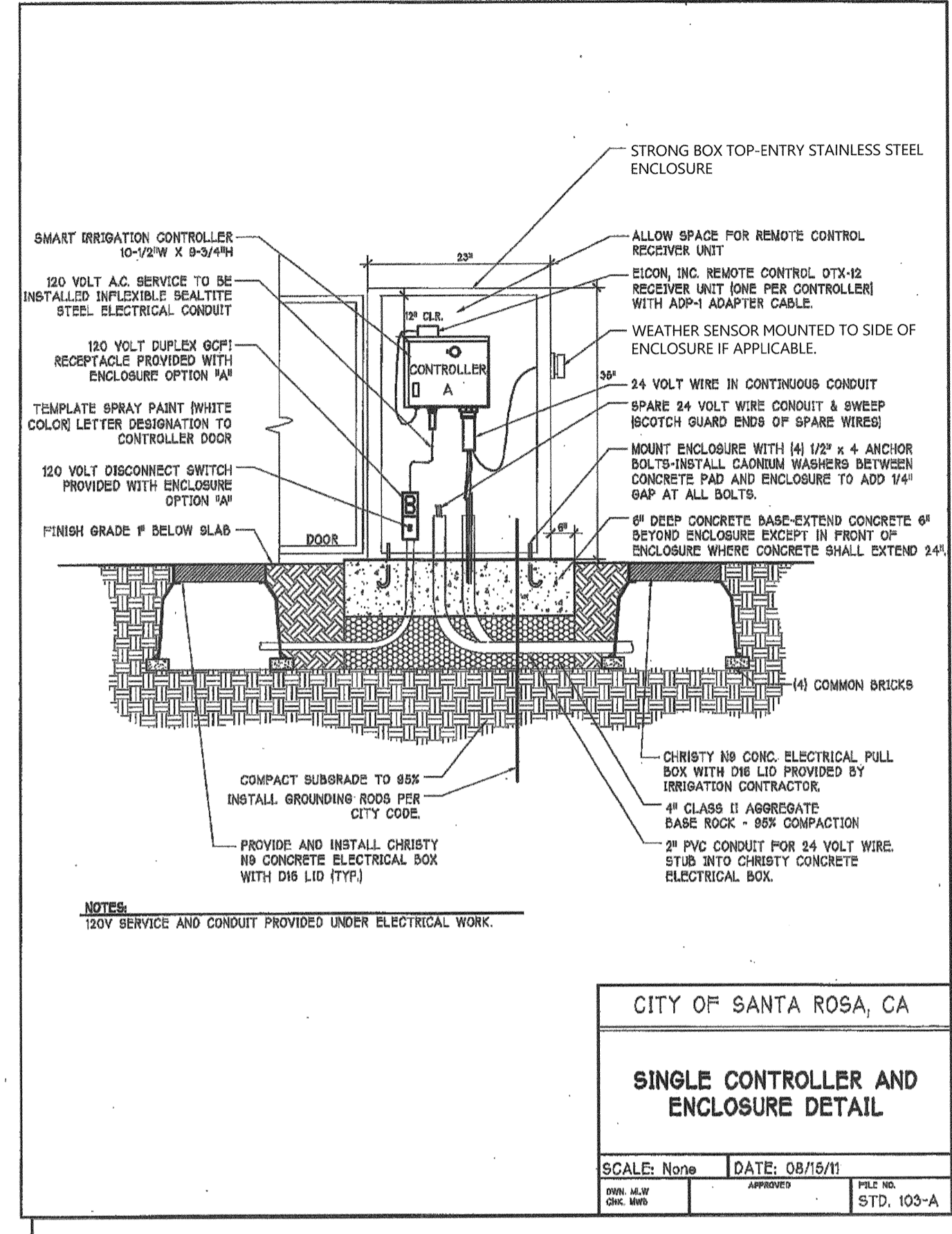
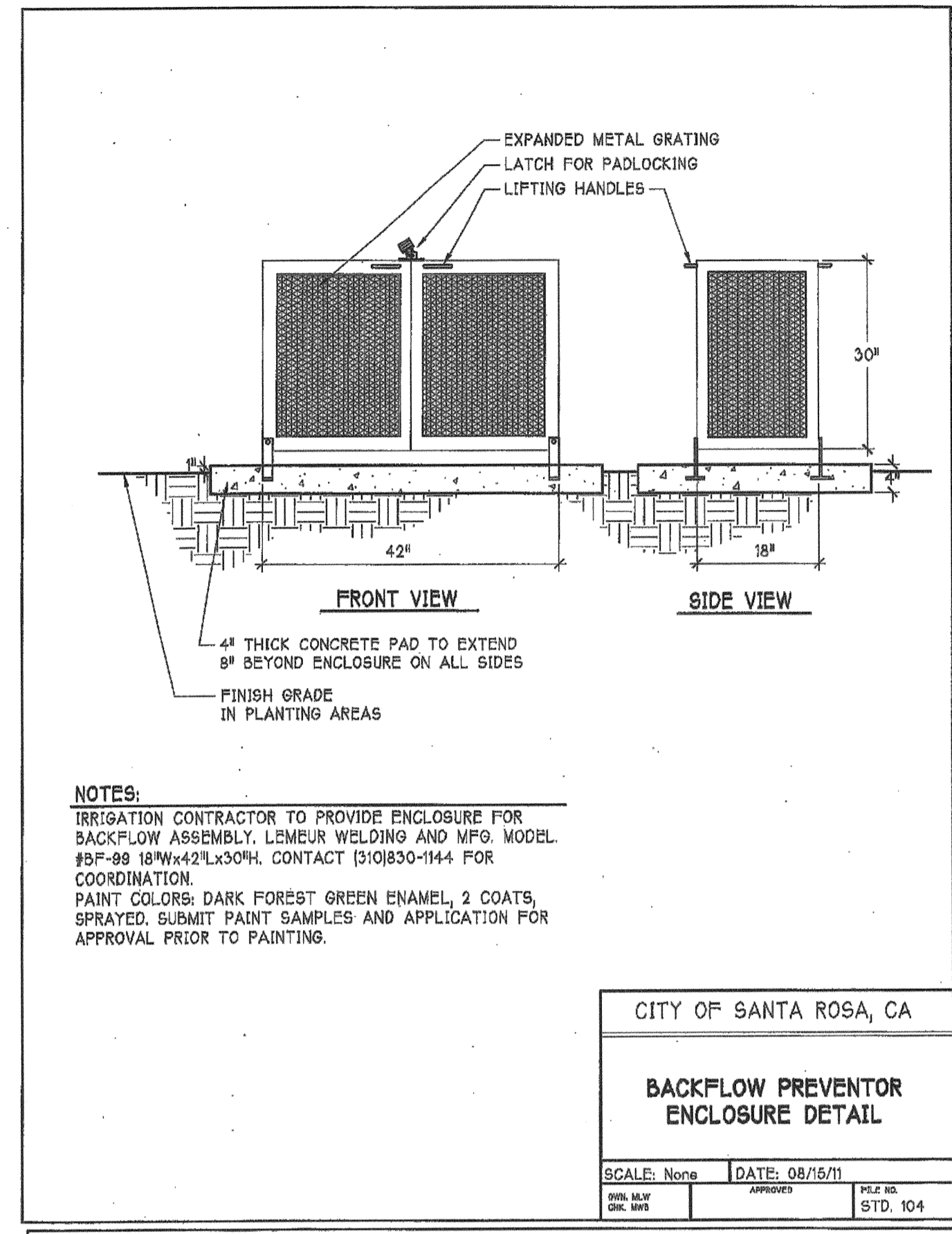
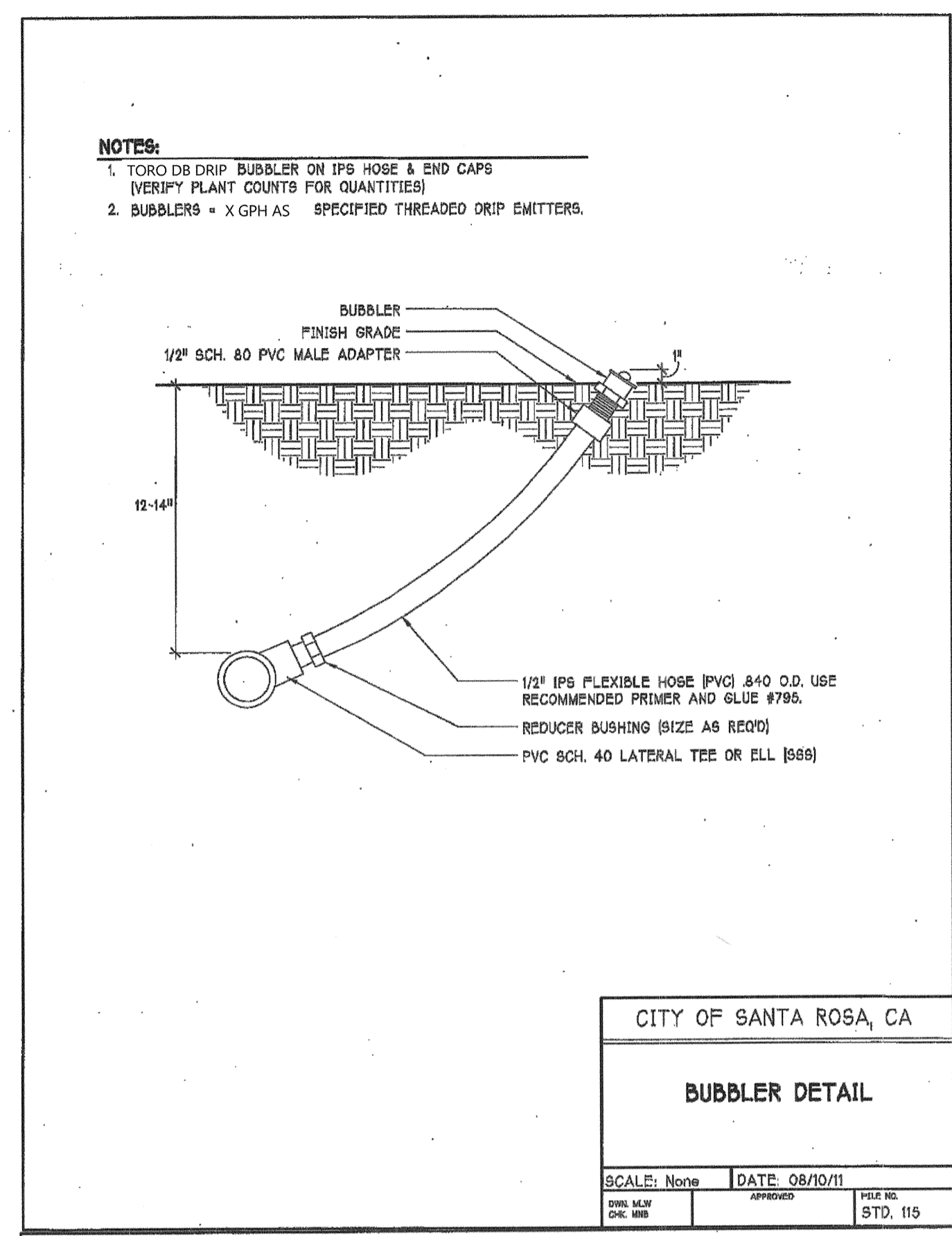
NO.	DATE	REVISION	BY

DATE: 05/14/2021	CHK BY: JL
SCALE: AS SHOWN	DWN BY: JB

CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING
IRRIGATION CITY DETAILS

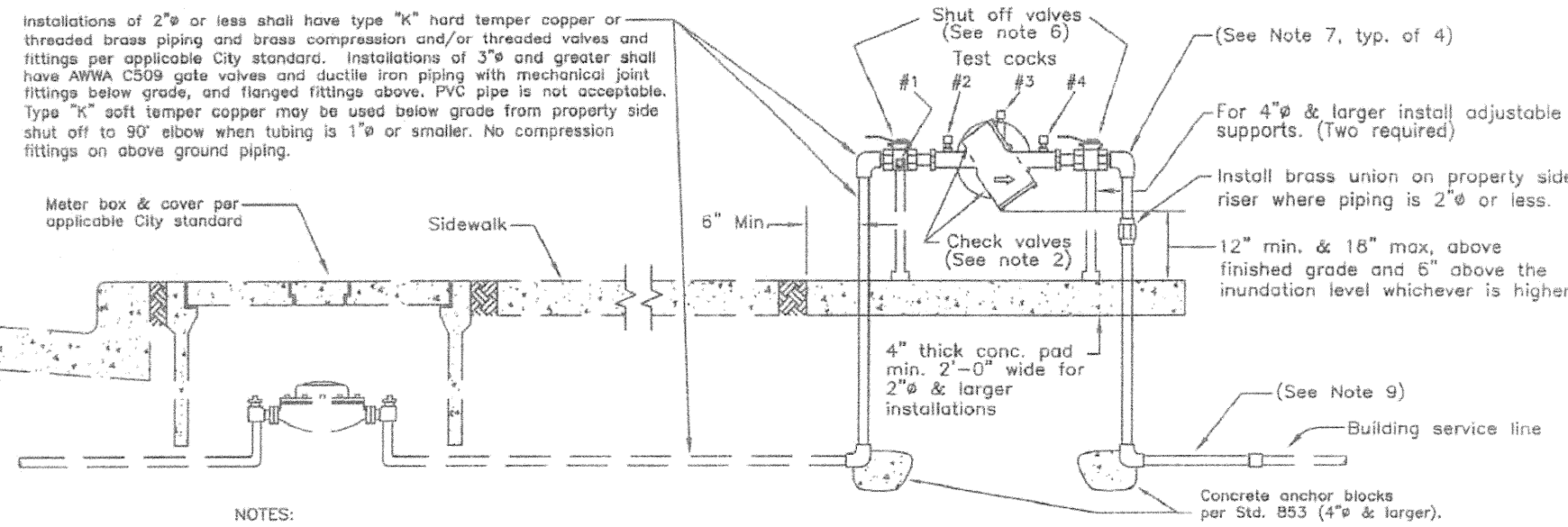
CONTRACT NO.
CO2300
SHEET 65 OF 139
FILE NO. 2020-0011

ID.01



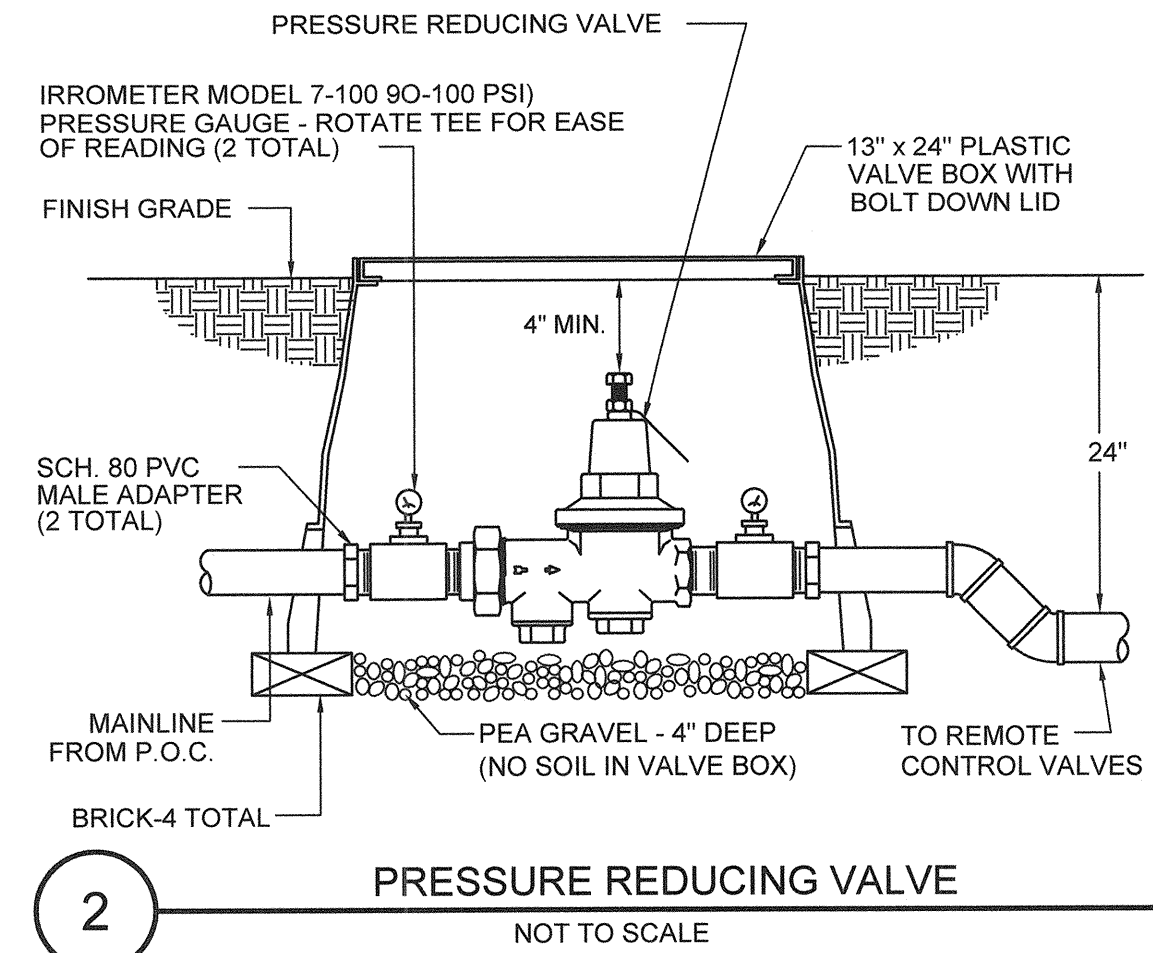
NOTE: DETAILS 116A, 116B, AND 116C ARE SHOWN FOR CLARITY OF CITY STANDARDS. ALL DRIPLINES WILL BE INSTALLED ON GRADE DUE TO TRENCHING ISSUES AROUND EXISTING TREES.

File Path: S:\Client Files\California\Projects\Santa Rosa Streetscaping\Design\4 - Submittal\ID.01\CD in progress\1166_1165_1166_SHEETS.rvt All drawings plotted by: Janet Luehrs, CID. Copyright © 2017, Brookwater Irrigation Consultants, Inc.

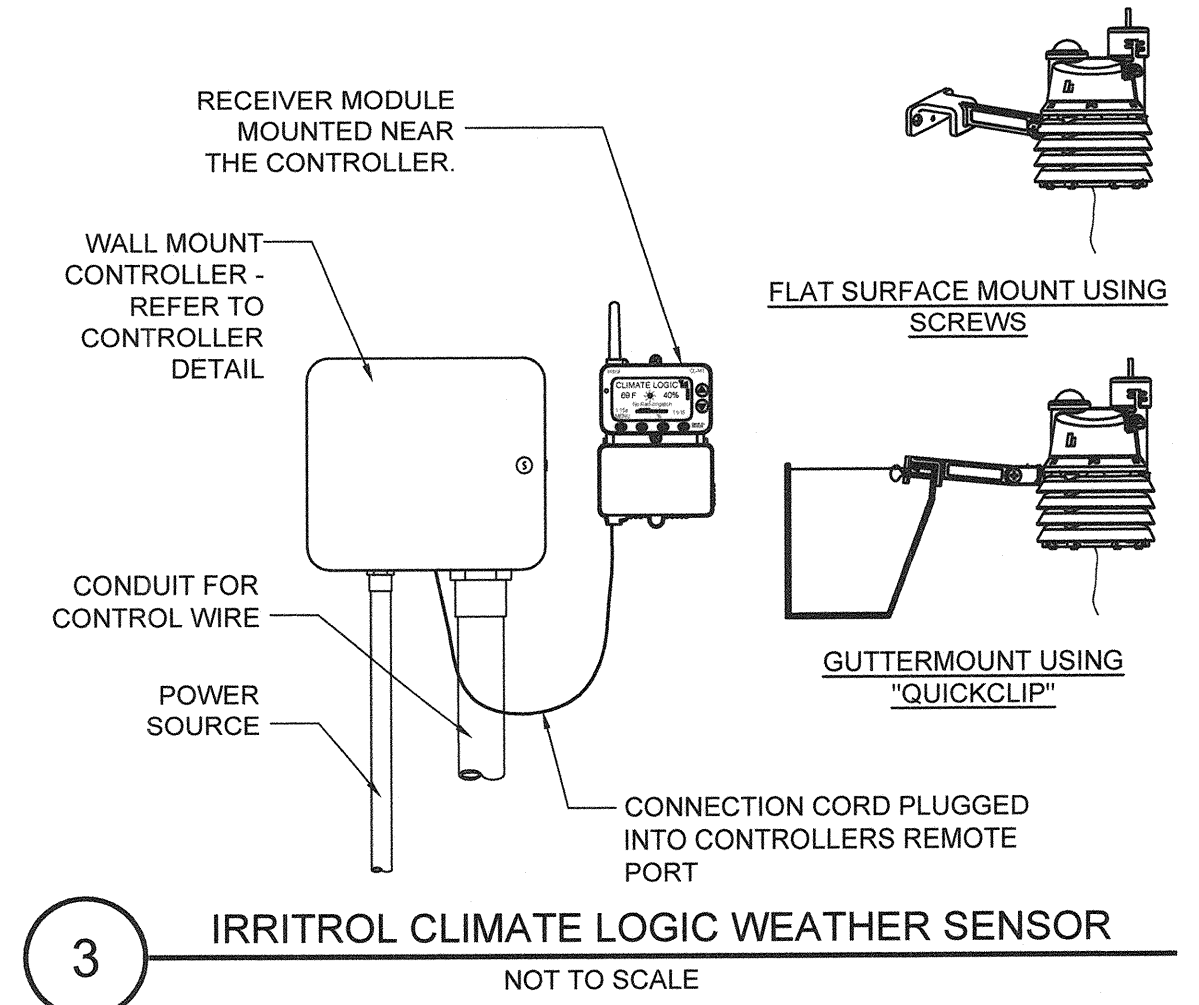


- NOTES:**
- Reduced pressure type backflow assembly shall be required as determined by Santa Rosa Water.
 - Approved backflow assemblies shall be from the "List Of Approved Backflow Prevention Devices" (Latest Revision) by the University of Southern California Foundation For Cross-Connection Control & Hydraulic Research.
 - Reduced pressure type backflow assemblies are required on all services where, in the opinion of the Water Department, a potential intermediate hazard exists. Device to be installed on all services to properties with wells.
 - Reduced pressure backflow assemblies shall typically be installed inline with the water meter and just behind the sidewalk. Where no sidewalk exists or installation at this location is not practical, double check valve assemblies shall be installed as close as possible to the water meter in a location that is safe from travel ways. Any conflicts shall be brought to the attention of the Engineer and final location shall be determined by the Water Department.
 - The piping from the meter to the device, and the device itself shall be the same size as the meter unless otherwise approved by the Water Department.
 - Valves 2" or less shall be brass ball valves, and valves 3" or greater shall be resilient seat gate valves. When shut off valves on approved backflow assemblies are installed on their vertical risers, the bottom of the valves shall be a minimum of 4" above finished grade.
 - M.I.P. x F.I.P. 90° elbows (street ell) are not allowed for use on this installation.
 - Provide brass caps or plugs for all test cocks.
 - Minimum 12" long threaded brass nipple for 2" and smaller, and 24" long ductile iron pipe for 3" or greater.
 - Any enclosure, cover or screening for the backflow assembly must first be approved by the Water Department prior to installation.
 - Where multiple devices are installed side by side they shall have a minimum separation of 12".
 - Where multiple devices are installed side by side there shall be a minimum of 12" between devices. Where enclosures are installed over devices, devices shall be centered within, and there shall be a minimum of 4" between enclosures.

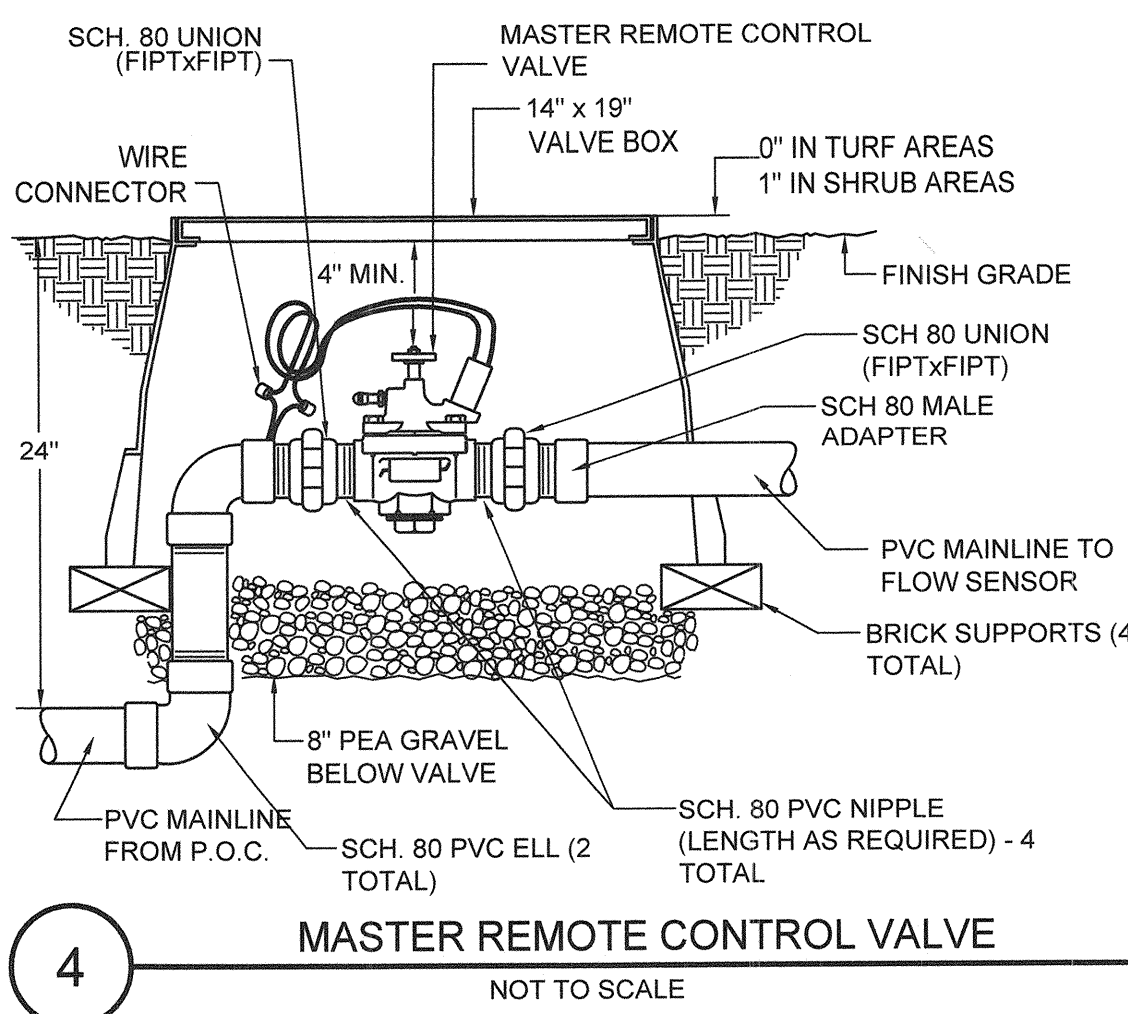
CITY OF SANTA ROSA
REDUCED PRESSURE
BACKFLOW DEVICE
SCALE: NOTES: DATE: 05/14/2021
DRAWN BY: JLB
CHECKED BY: JLB



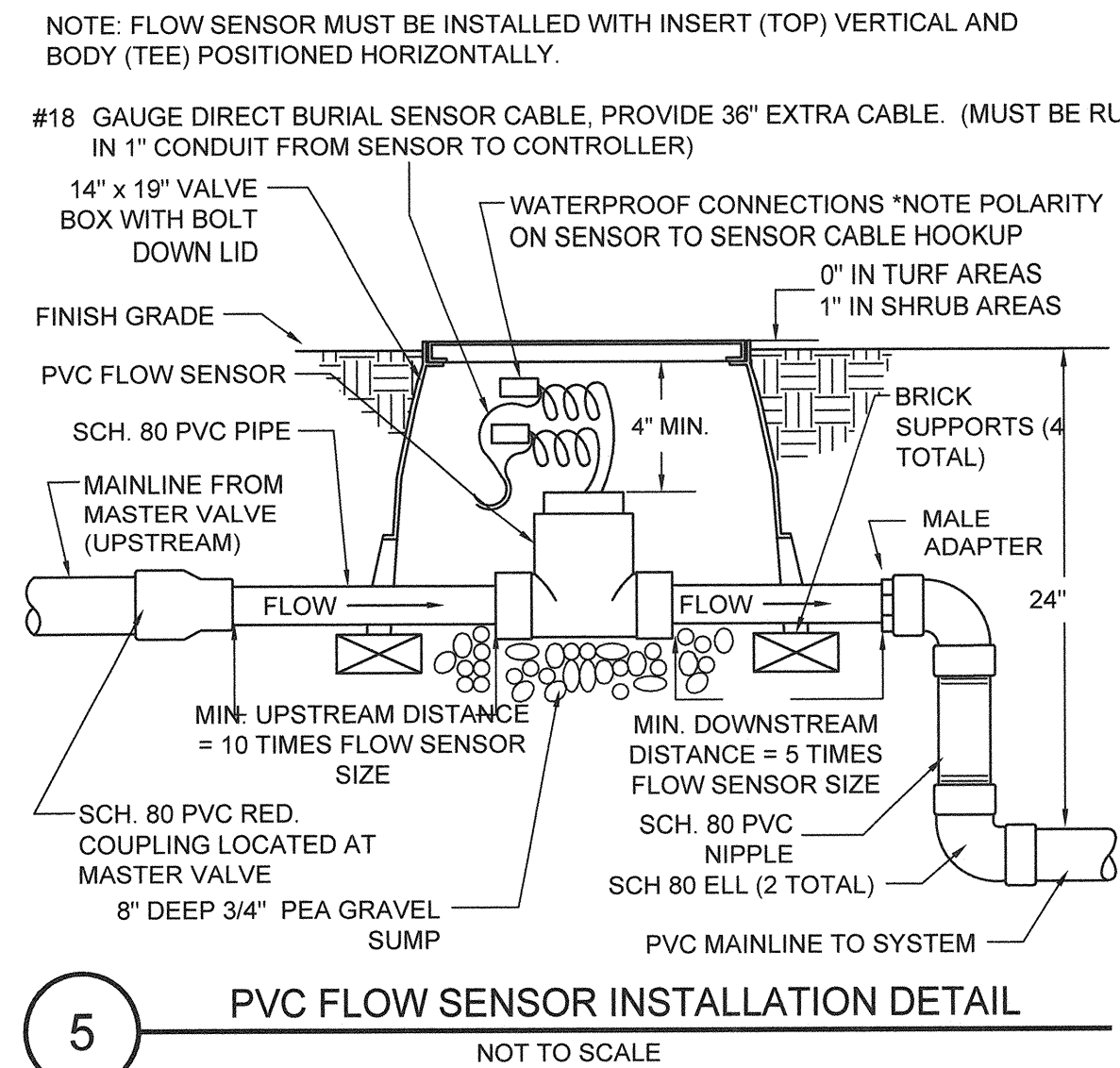
2 PRESSURE REDUCING VALVE
NOT TO SCALE



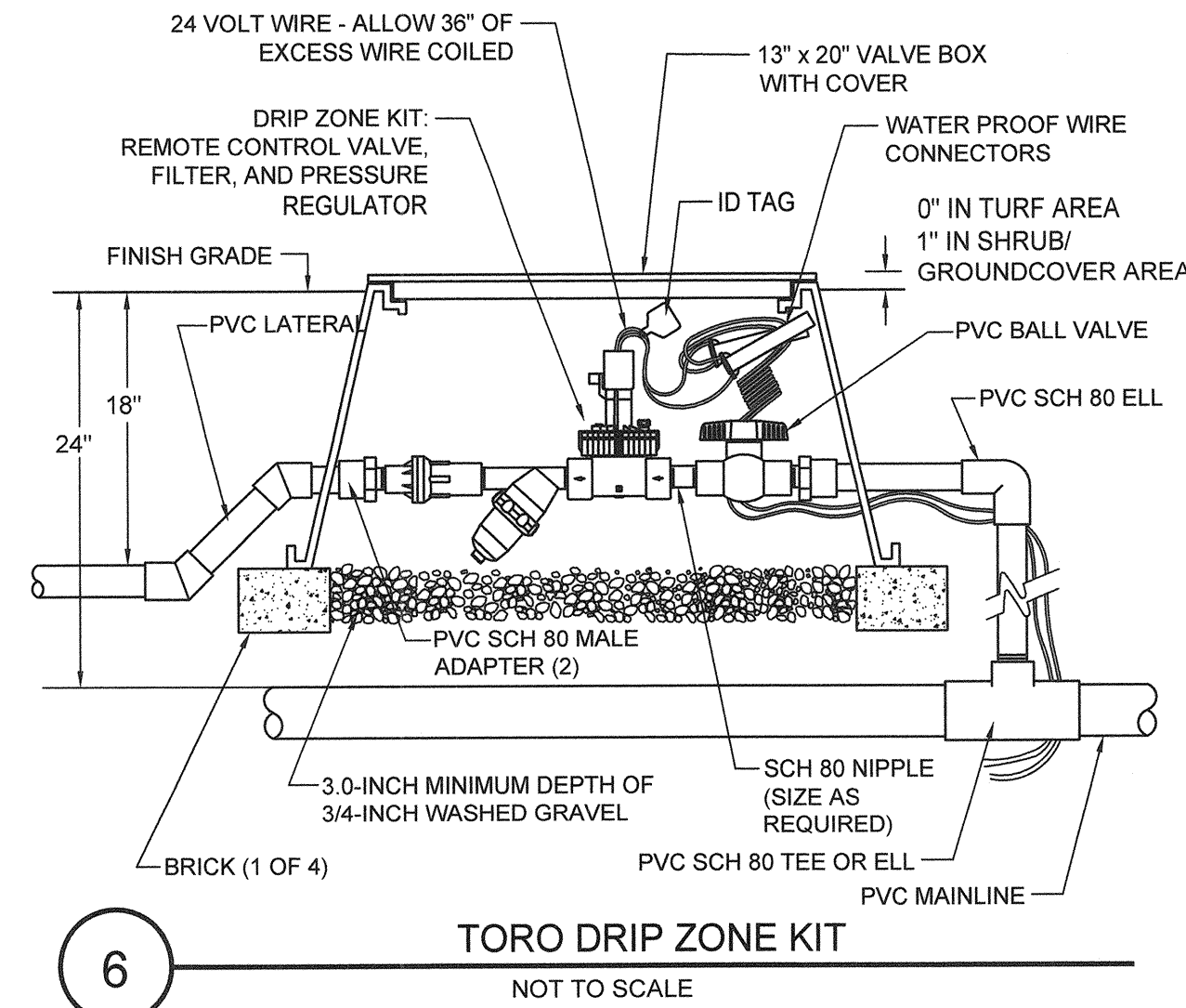
3 IRRITROL CLIMATE LOGIC WEATHER SENSOR
NOT TO SCALE



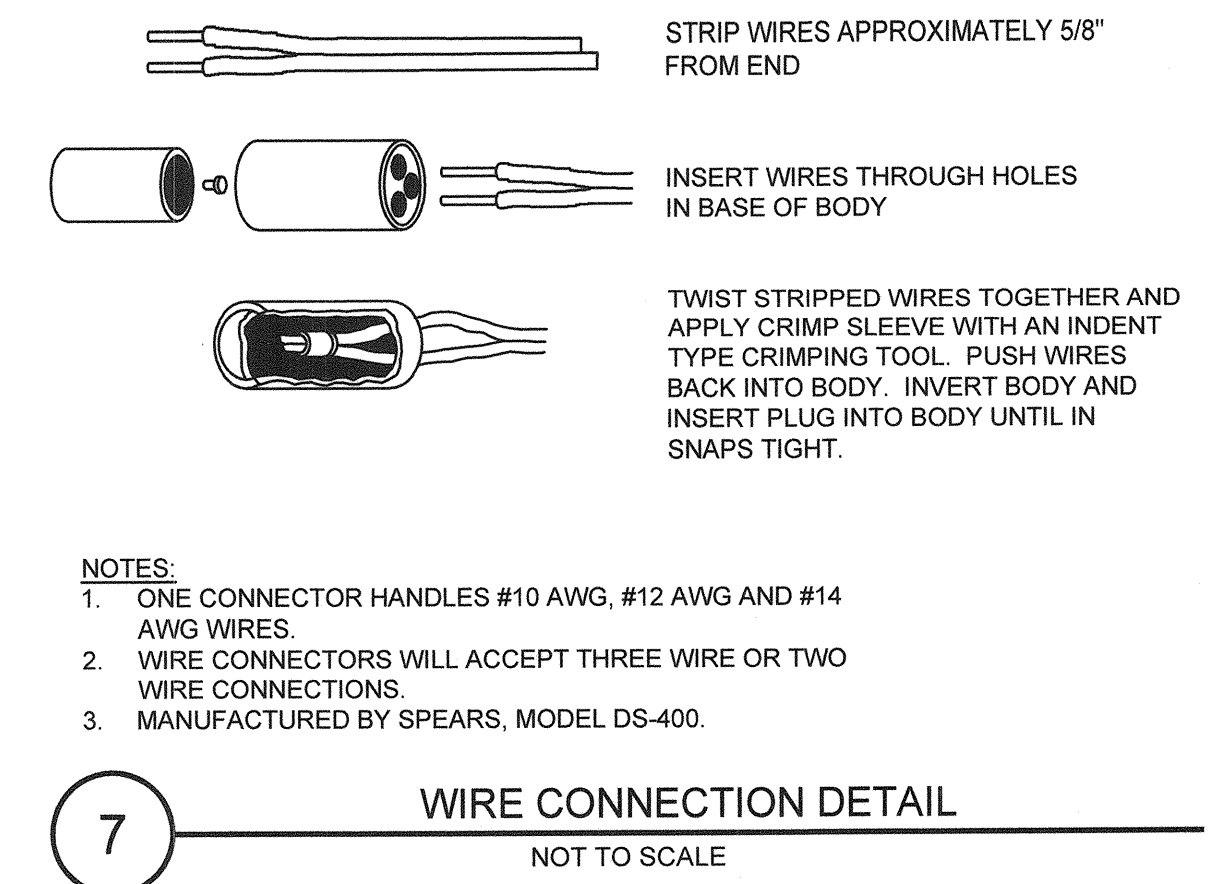
4 MASTER REMOTE CONTROL VALVE
NOT TO SCALE



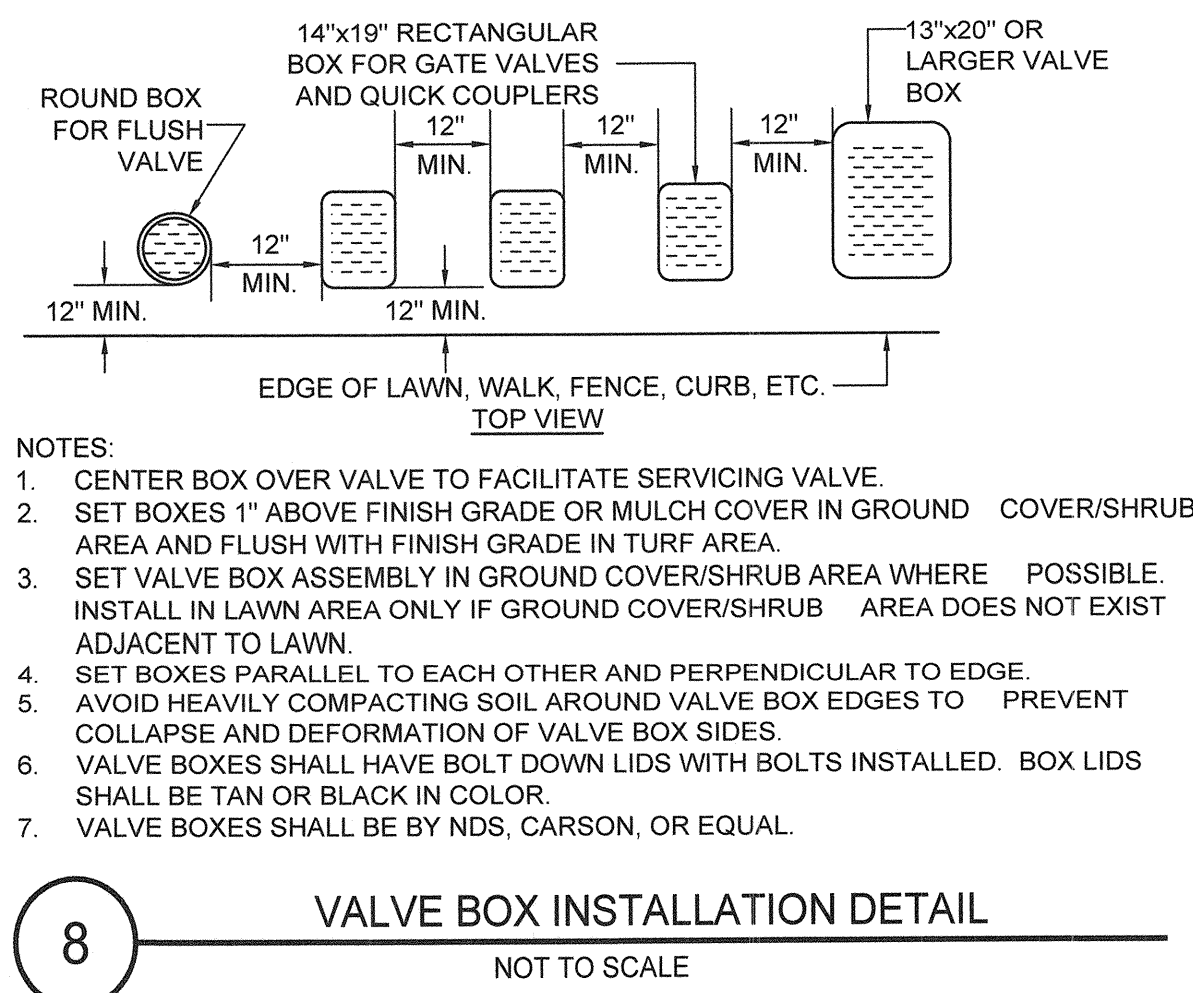
5 PVC FLOW SENSOR INSTALLATION DETAIL
NOT TO SCALE



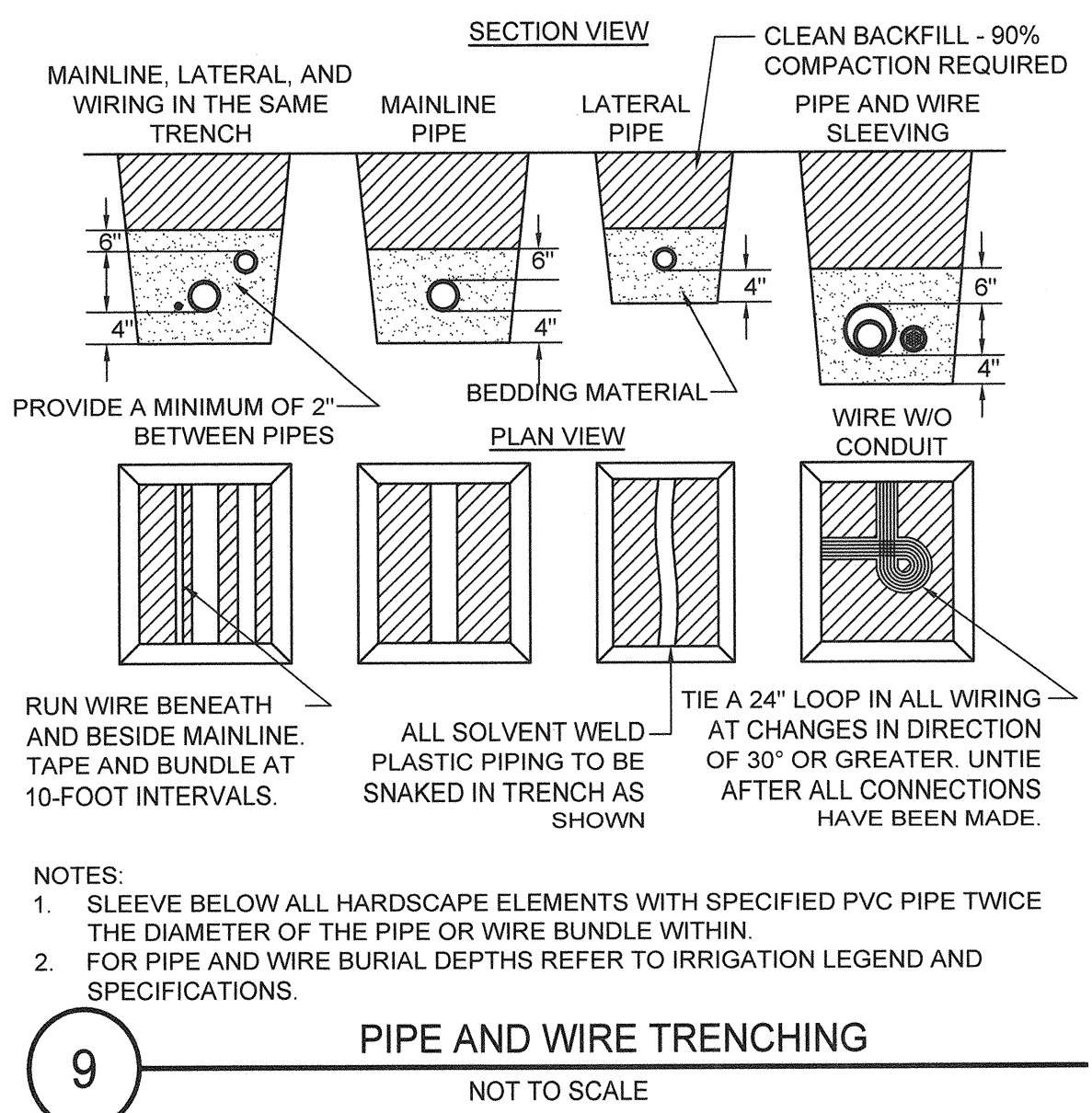
6 TORO DRIP ZONE KIT
NOT TO SCALE



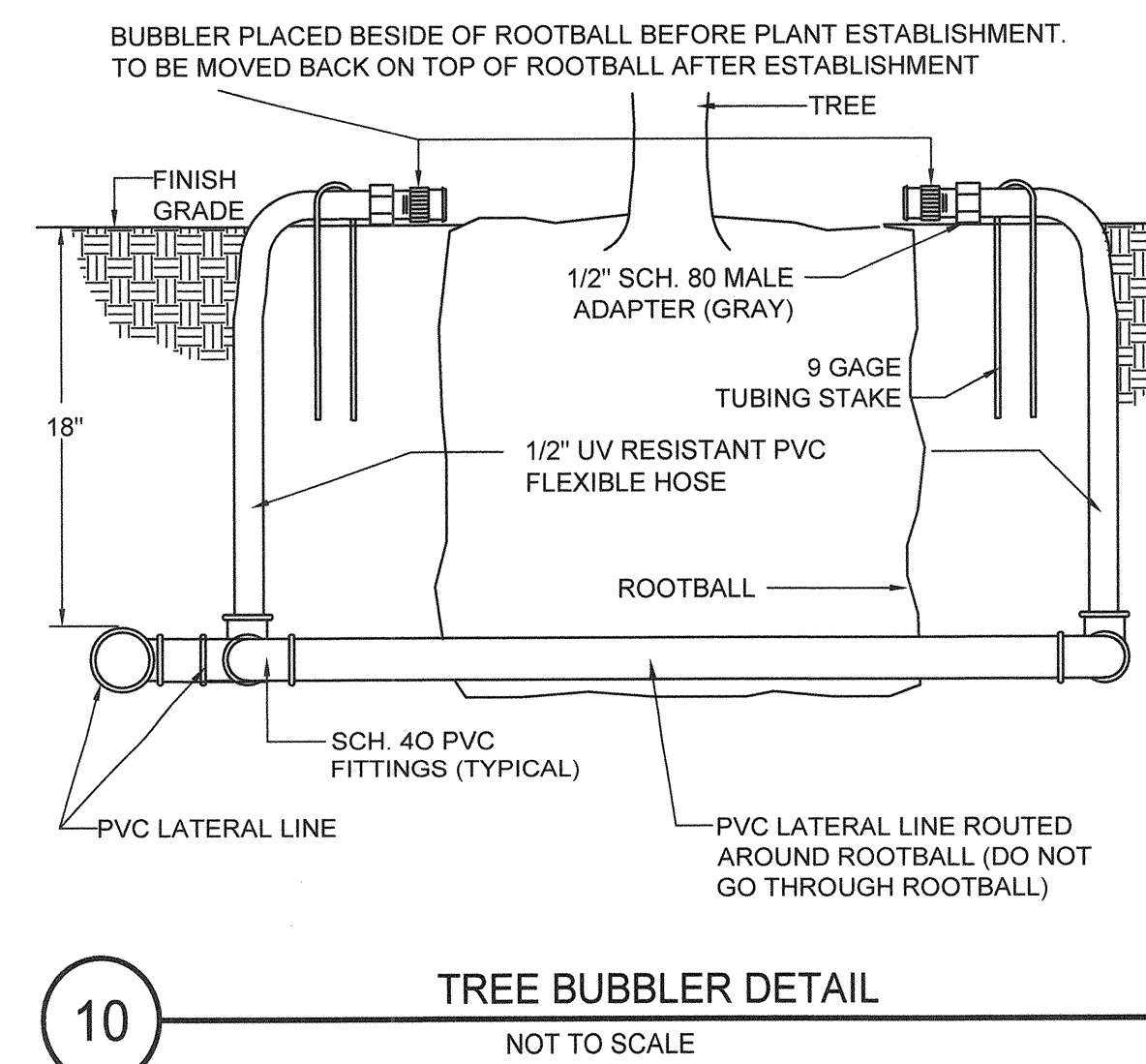
7 WIRE CONNECTION DETAIL
NOT TO SCALE



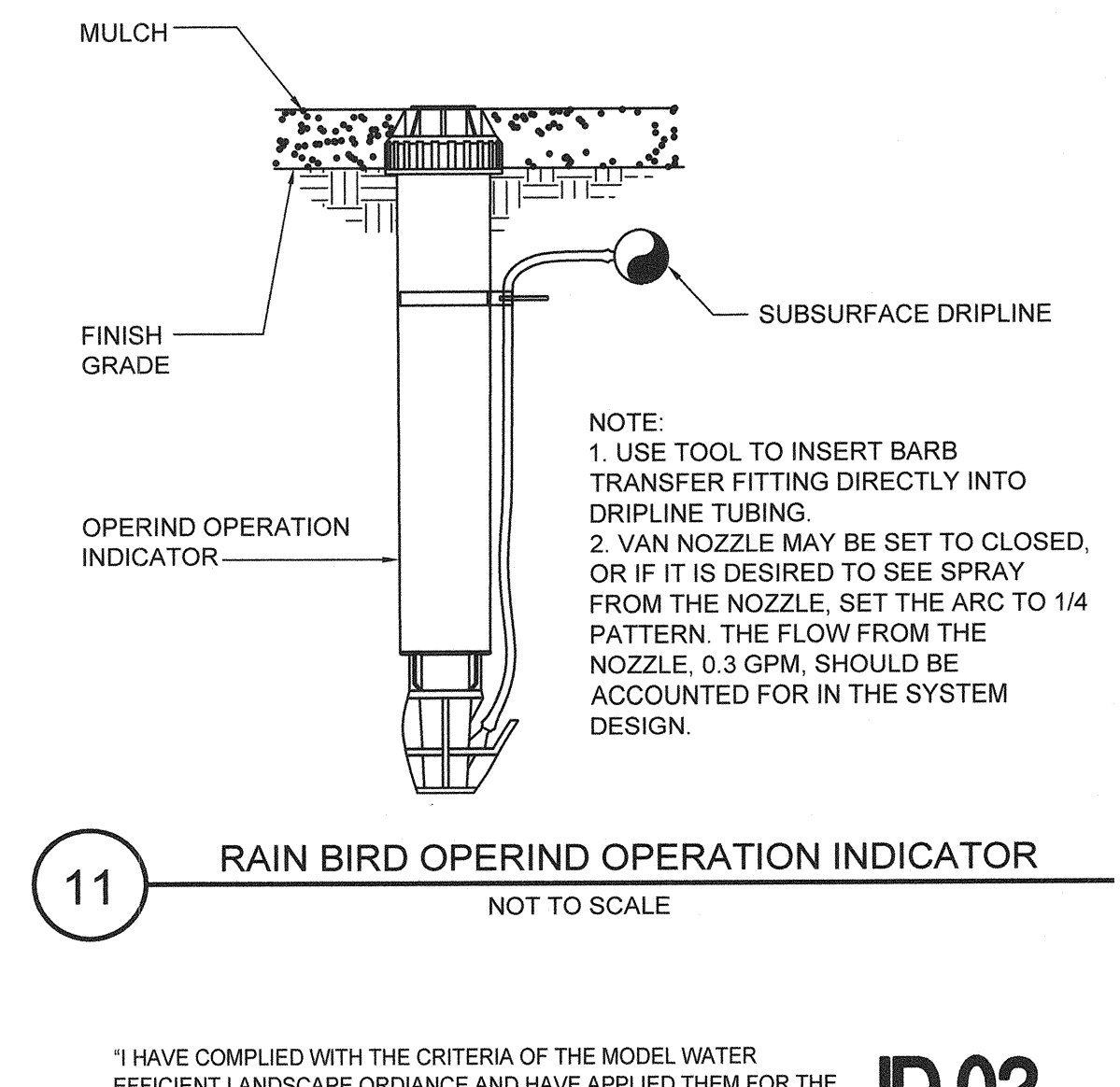
8 VALVE BOX INSTALLATION DETAIL
NOT TO SCALE



9 PIPE AND WIRE TRENCHING
NOT TO SCALE



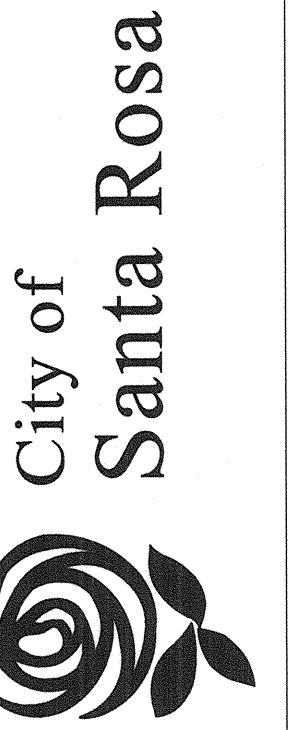
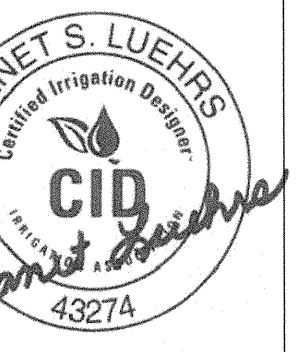
10 TREE BUBBLER DETAIL
NOT TO SCALE



11 RAIN BIRD OPERIND OPERATION INDICATOR
NOT TO SCALE

"I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN."

ID.02

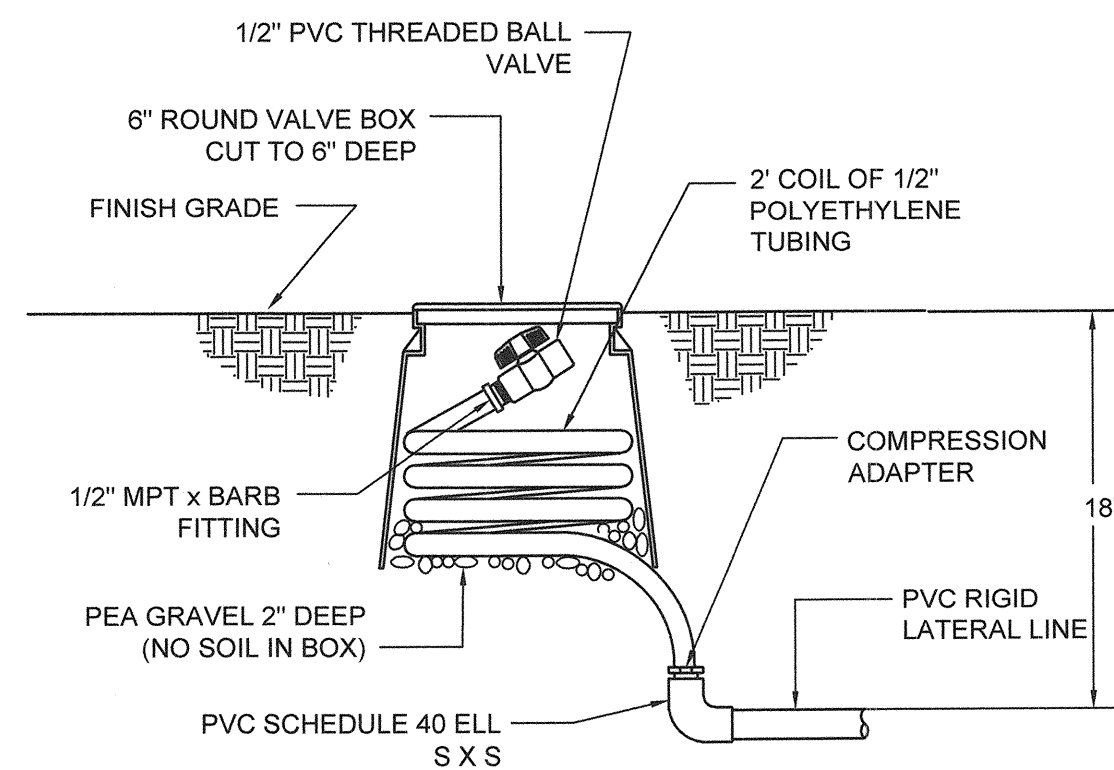


NO.	DATE	REVISION	BY

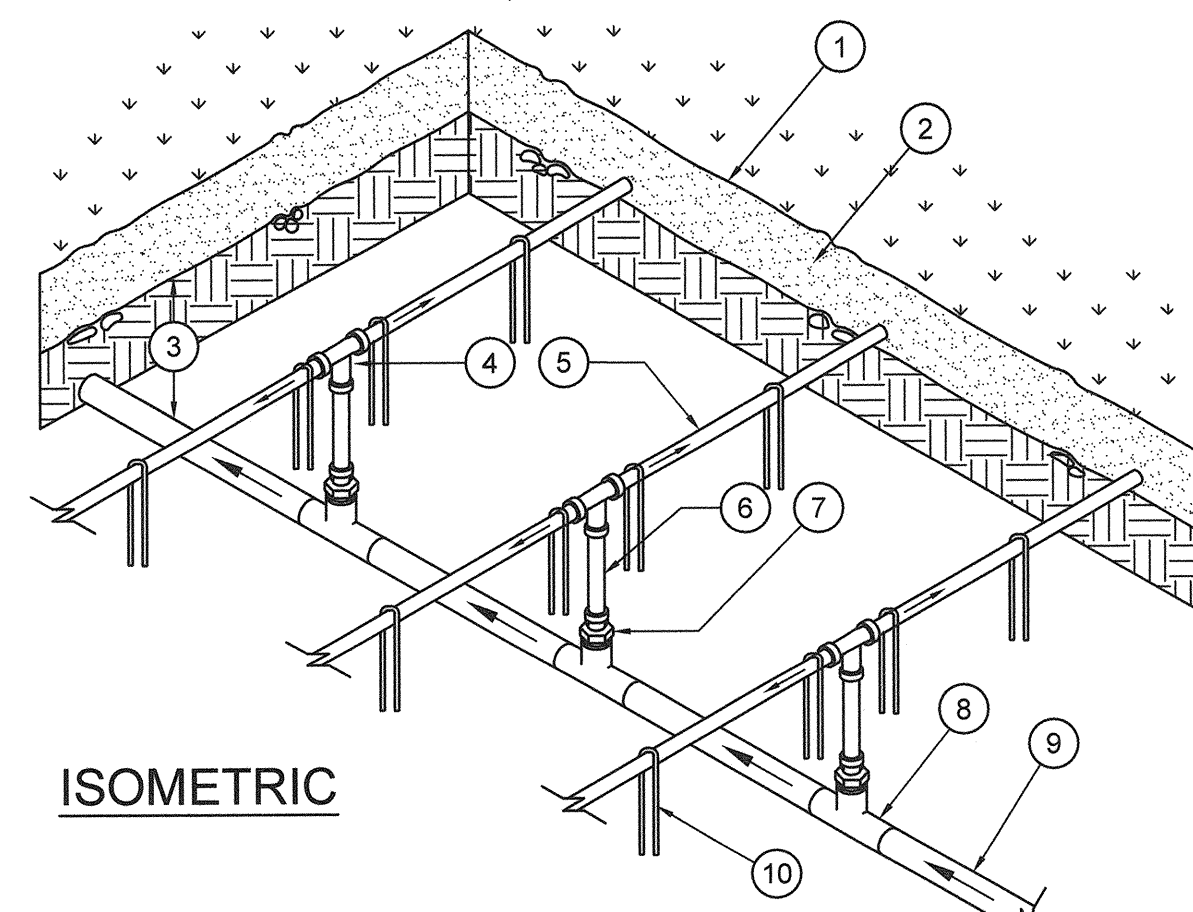
SCALE	DATE	CHK BY	JL
AS SHOWN	05/14/2021	JL	
DWN BY	JB		

CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING
IRRIGATION DETAILS

CONTRACT NO. CO2300
SHEET 66 OF 139
FILE NO. 2020-0011



12 MANUAL FLUSH VALVE DETAIL
NOT TO SCALE

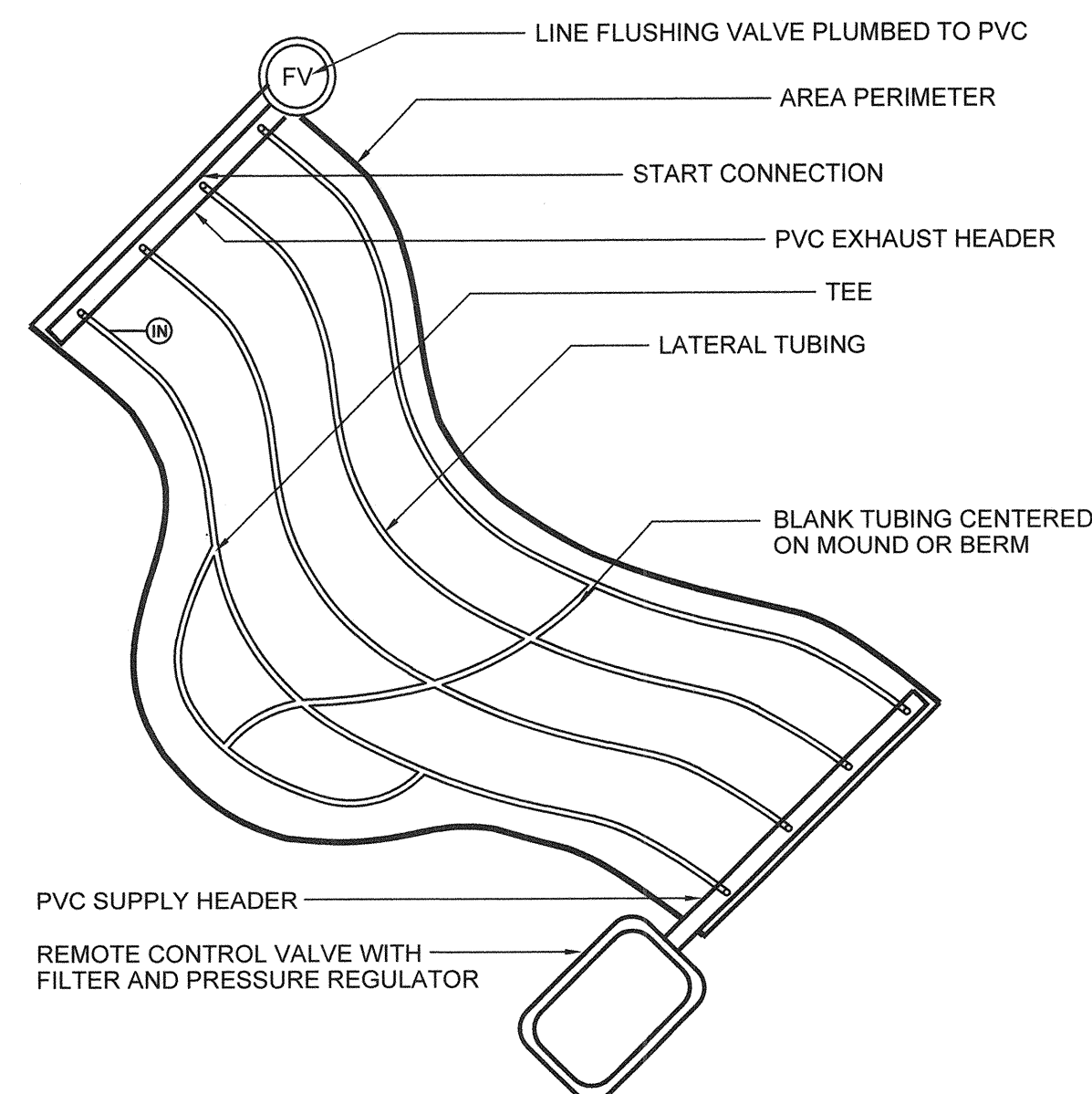


ISOMETRIC

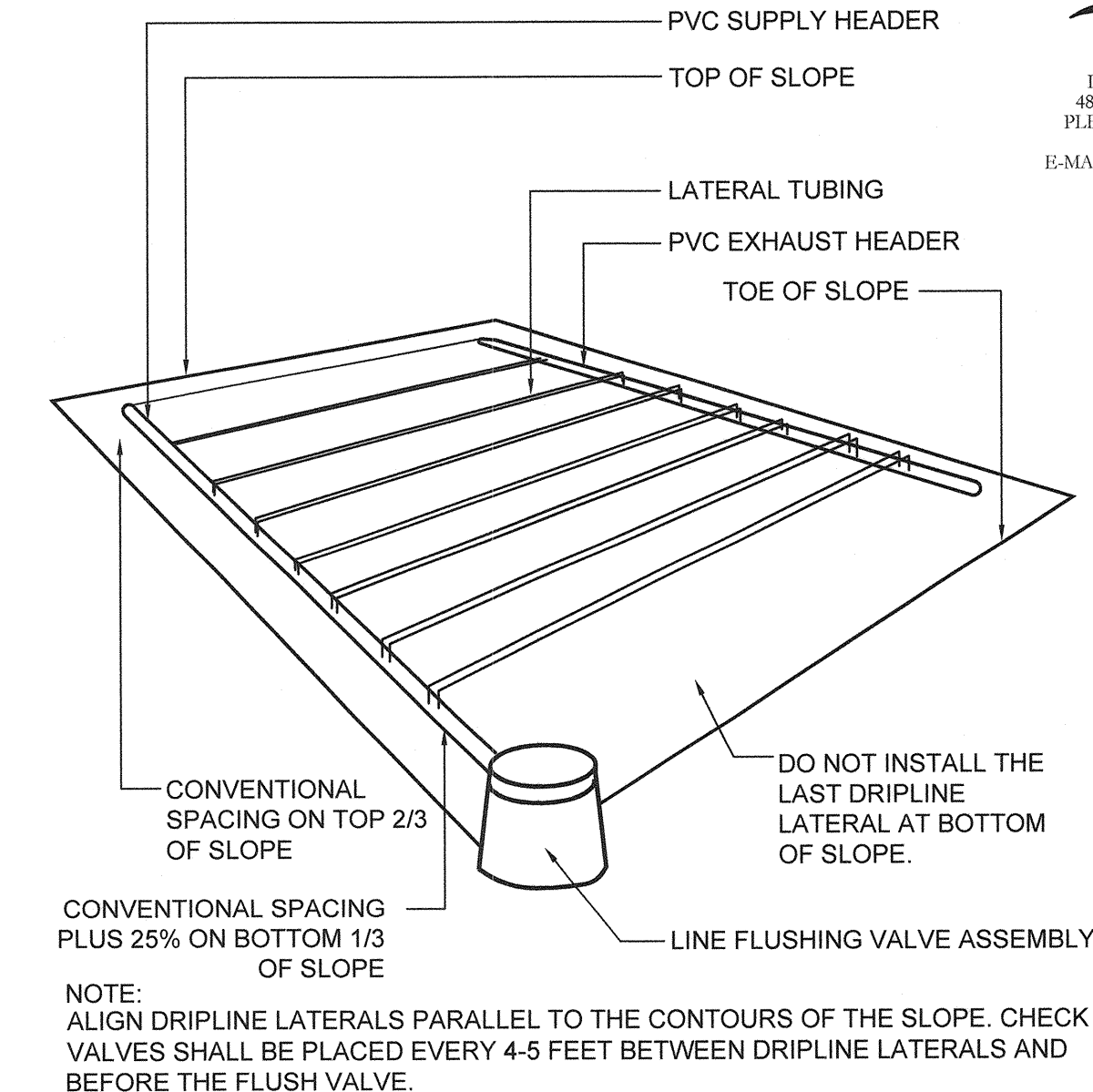
LEGEND

1. FINISH GRADE.
2. MULCH - INSTALL TUBING ON GRADE, UNDER MULCH
3. DEPTH OF PVC SUPPLY MANIFOLD PER SPECIFICATIONS.
4. DRIPLINE TEE FITTING.
5. DRIPLINE LATERAL.
6. BLANK POLY TUBING, LENGTH AS NECESSARY.
7. DRIPLINE MPT ADAPTER.
8. PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
9. PVC SUPPLY MANIFOLD FROM REMOTE CONTROL VALVE ASSEMBLY.
10. WIRE STAKE - EVERY 24", USE ONLY ROUNDED STAKES

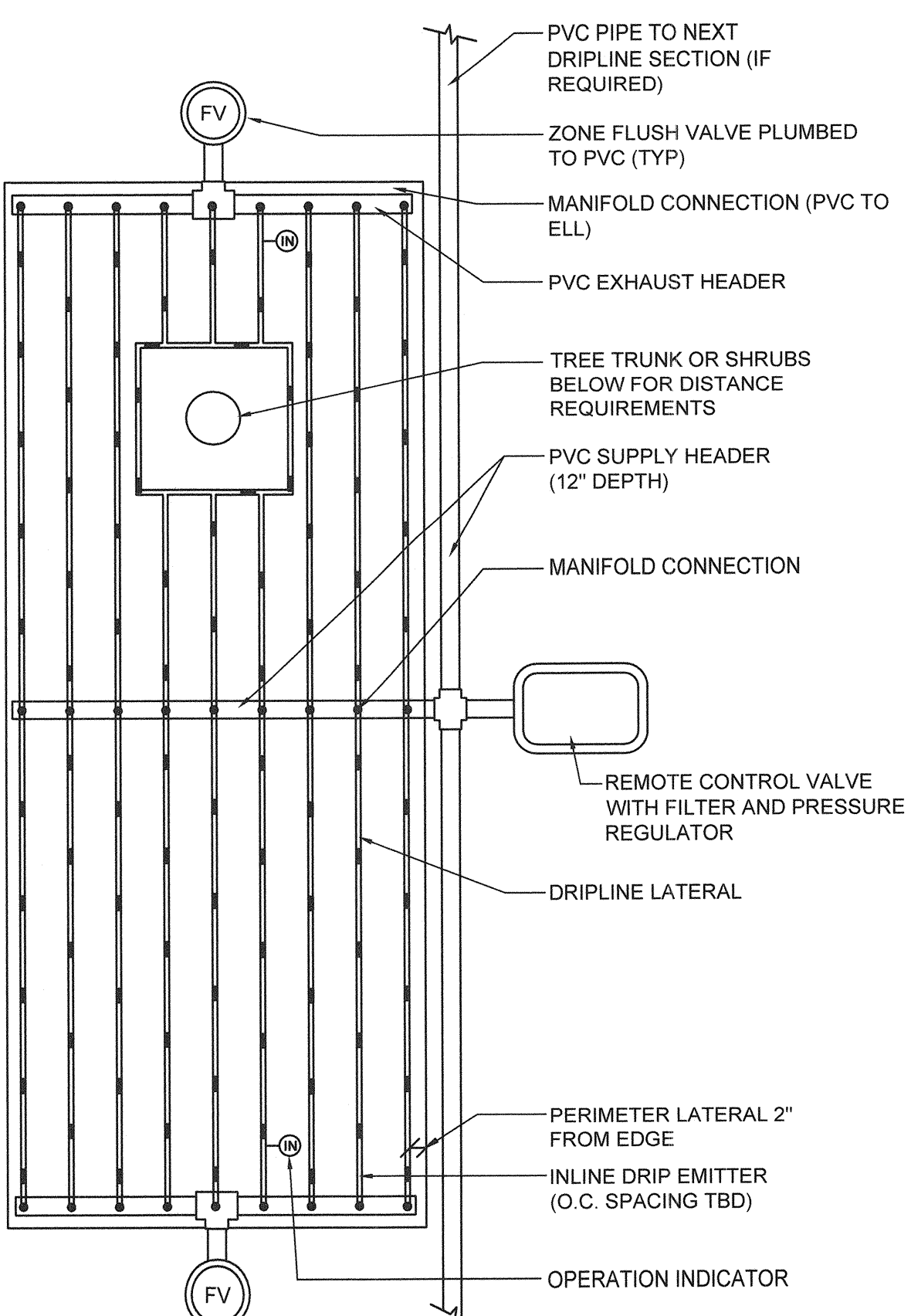
13 CENTER FEED MANIFOLD - ON-GRADE
NOT TO SCALE



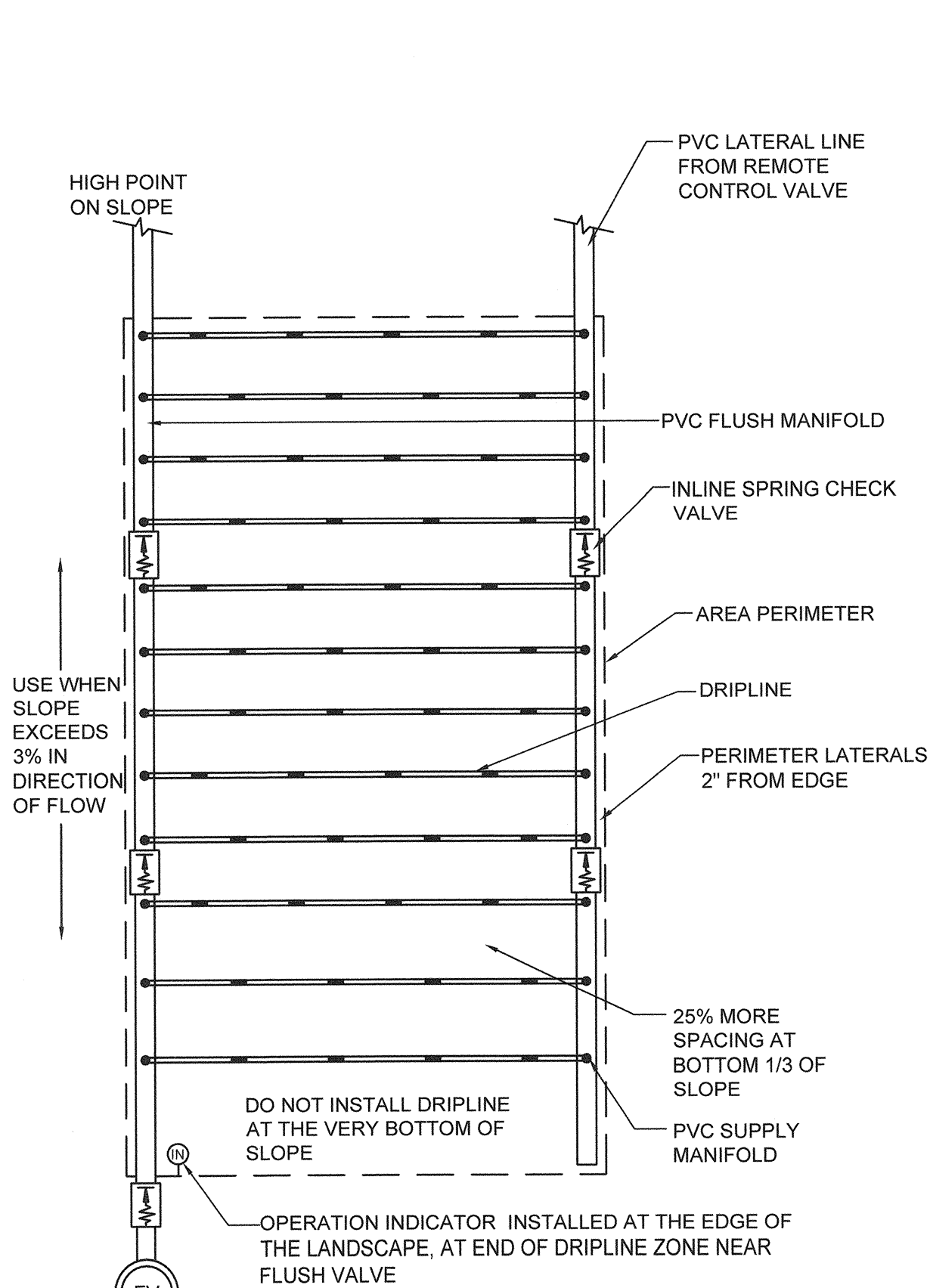
14 IRREGULAR AREAS: ODD CURVES
NOT TO SCALE



15 INLINE DRIP SPACING LAYOUT ON SLOPE
NOT TO SCALE

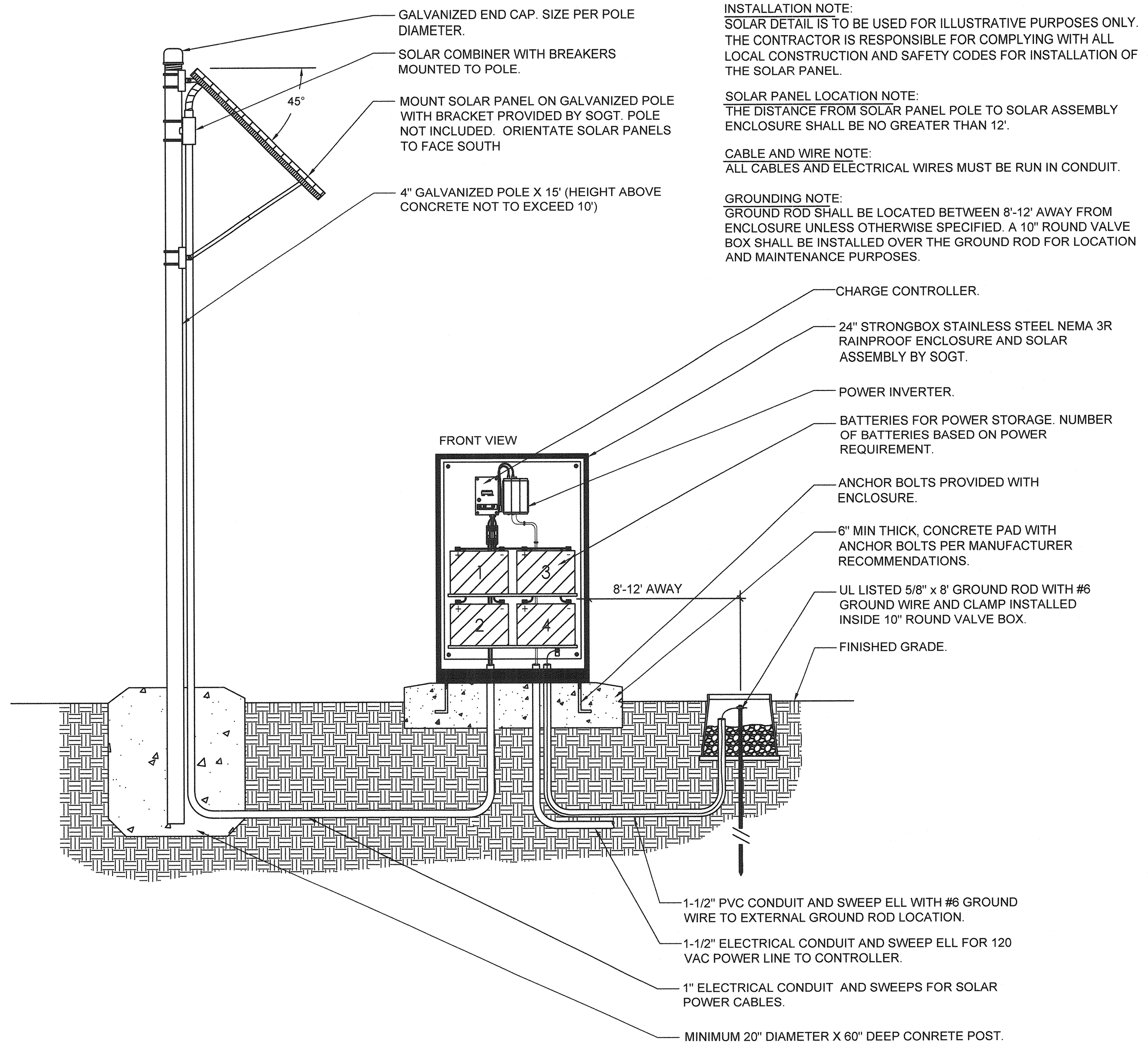


16 CENTER FEED INLINE DRIP LAYOUT
NOT TO SCALE



17 INLINE DRIP LAYOUT FOR SLOPES
NOT TO SCALE

MINIMUM 12" CLEARANCE AROUND ROOTBALL OF NEWLY PLANTED TREES, 6 FT. TYPICAL / 4 FT. MINIMUM CLEARANCE AROUND TRUNKS OF EXISTING TREES, 3 FT. TYPICAL CLEARANCE AT EXISTING SHRUBS TO REMAIN



18 SOLAR ASSEMBLY - 500 SERIES INSTALLATION
NOT TO SCALE

INSTALLATION NOTE:
SOLAR DETAIL IS TO BE USED FOR ILLUSTRATIVE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL CONSTRUCTION AND SAFETY CODES FOR INSTALLATION OF THE SOLAR PANEL.

SOLAR PANEL LOCATION NOTE:
THE DISTANCE FROM SOLAR PANEL POLE TO SOLAR ASSEMBLY ENCLOSURE SHALL BE NO GREATER THAN 12'.

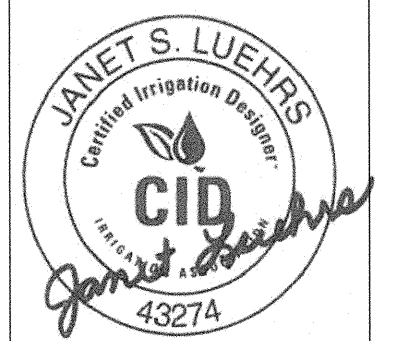
CABLE AND WIRE NOTE:
ALL CABLES AND ELECTRICAL WIRES MUST BE RUN IN CONDUIT.

GROUNDING NOTE:
GROUND ROD SHALL BE LOCATED BETWEEN 8'-12' AWAY FROM ENCLOSURE UNLESS OTHERWISE SPECIFIED. A 10" ROUND VALVE BOX SHALL BE INSTALLED OVER THE GROUND ROD FOR LOCATION AND MAINTENANCE PURPOSES.

- CHARGE CONTROLLER.
- 24" STRONGBOX STAINLESS STEEL NEMA 3R RAINPROOF ENCLOSURE AND SOLAR ASSEMBLY BY SOGT.
- POWER INVERTER.
- BATTERIES FOR POWER STORAGE. NUMBER OF BATTERIES BASED ON POWER REQUIREMENT.
- ANCHOR BOLTS PROVIDED WITH ENCLOSURE.
- 8" MIN THICK CONCRETE PAD WITH ANCHOR BOLTS PER MANUFACTURER RECOMMENDATIONS.
- UL LISTED 5/8" x 8" GROUND ROD WITH #6 GROUND WIRE AND CLAMP INSTALLED INSIDE 10" ROUND VALVE BOX.
- FINISHED GRADE.

- 1-1/2" PVC CONDUIT AND SWEEP ELL WITH #6 GROUND WIRE TO EXTERNAL GROUND ROD LOCATION.
- 1-1/2" ELECTRICAL CONDUIT AND SWEEP ELL FOR 120 VAC POWER LINE TO CONTROLLER.
- 1" ELECTRICAL CONDUIT AND SWEEPS FOR SOLAR POWER CABLES.
- MINIMUM 20" DIAMETER X 60" DEEP CONCRETE POST.

BROOK WATER
IRRIGATION CONSULTANTS
480 ST. JOHN STREET, SUITE 220
PLEASANTON, CALIFORNIA 94566
TEL. 925.855.0417
E-MAIL: OFFICE@BROOKWATER.COM



City of
Santa Rosa

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING

IRRIGATION DETAILS

CONTRACT NO. CO2300
SHEET 67 OF 139
FILE NO. 2020-0011

I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN. **ID.03**

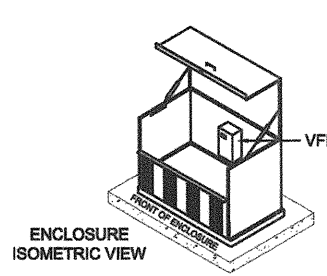
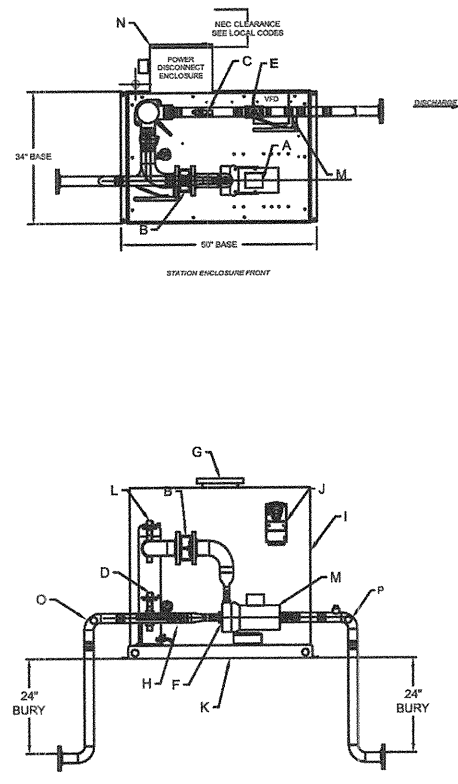
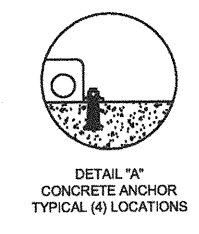
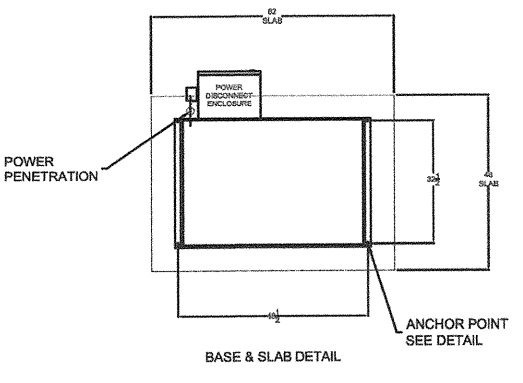
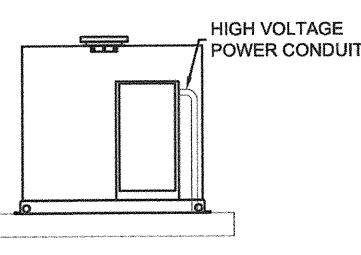
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NO.	DATE	REVISION	BY

PUMP STATION SPECIFICATIONS:
 NAME: FIRE DAMAGED ROADWAYS - POC I1
 STATION MODEL: WMBV-6000-7A-1-5-240-1-19-20
 STATION TOTAL PERFORMANCE: 19 GPM @ 70 PSI
 DYNAMIC INLET PRESSURE: 32 PSI
 BOOST PRESSURE: 38 PSI
 REGULATED DISCHARGE PRESSURE: 70 PSI
 PUMP HORSEPOWER:
 PUMP NO. 1: 1.5HP (3000RPM)
CHECK VALVE SIZES:
 PUMP NO. 1: 1" (3000RPM)
ISOLATION VALVE SIZES:
 DISCHARGE ISOLATION VALVE SIZE: 2"
 DISCHARGE MANIFOLD SIZE: 2"

POWER REQUIREMENTS: 240V, 60HZ, 1PHZ, 18FLA (EST.)
 EXHAUST FAN REQUIREMENTS: 240CFM

STATION COMPONENTS:
 A PUMP AND MOTOR
 B CHECK VALVE
 C PRESSURE TRANSDUCER WITH GAUGE
 D BYPASS VALVE
 E FLOW SENSOR
 F TEMP SENSOR
 G STATION FAN HOOD MOUNTED
 H PUMP INTAKE ISOLATION VALVE
 I MARINE GRADE ALUMINUM ENCLOSURE (UNPAINTED)
 J VFD WITH PUMP CONTROLLER
 K STAINLESS STEEL BASE (UNPAINTED)
 L PUMP DISCHARGE ISOLATION VALVE
 M STATION DISCHARGE ISOLATION VALVE
 N DEAD-FRONT DISCONNECT PANEL
 O INTAKE DROP PIPE W/ 2" FLG CONNECTION
 P DISCHARGE DROP PIPE W/ 2" FLG CONNECTION

ENCLOSURE ISOMETRIC VIEW

DETAIL "A" CONCRETE ANCHOR TYPICAL (4) LOCATIONS

POWER PENETRATION

ANCHOR POINT SEE DETAIL

BASE & SLAB DETAIL

HIGH VOLTAGE POWER CONDUIT

<input type="checkbox"/> APPROVED AS SUBMITTED	7										
<input type="checkbox"/> APPROVED AS NOTED	6										
<input type="checkbox"/> REVISE AND RESUBMIT	5										
	4										
	3										
	2										
	1										
	NO.	DATE	BY	DESCRIPTION							

DRAWN BY: PJB DATE: 02/15/2021
 CHECKED BY: DATE:
 TITLE: FIRE DAMAGED ROADWAYS - POC I1
 IRRIGATION PUMP STATION

SCALE: NTS SHEET 1 OF 1 SHEETS
 JOB NO.: DRAWING NO. PRS14331

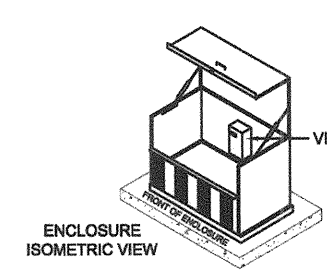
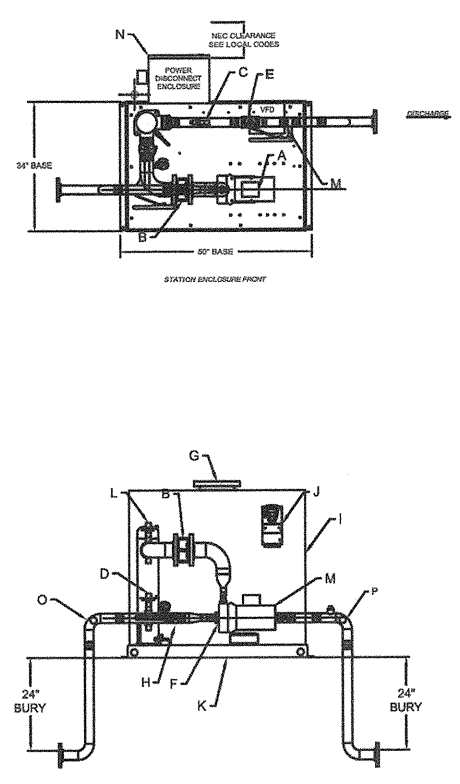
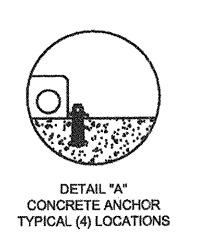
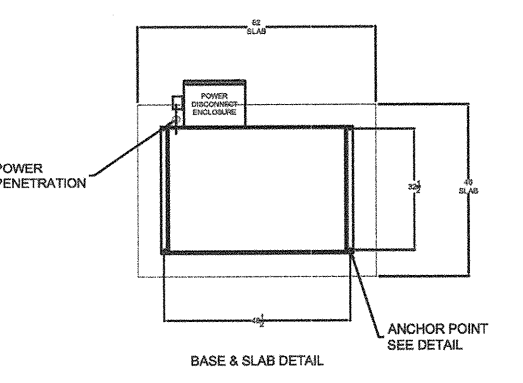
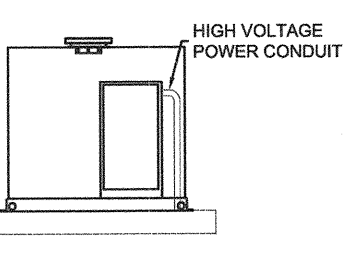
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PUMP STATION SPECIFICATIONS:
 NAME: FIRE DAMAGED ROADWAYS - POC I2H
 STATION MODEL: WMBV-6000-7A-5-240-1-19-100
 STATION TOTAL PERFORMANCE: 19 GPM @ 100 PSI
 DYNAMIC INLET PRESSURE: 32 PSI
 BOOST PRESSURE: 88 PSI
 REGULATED DISCHARGE PRESSURE: 100 PSI
 PUMP HORSEPOWER:
 PUMP NO. 1: 5HP (3000RPM)
CHECK VALVE SIZES:
 PUMP NO. 1: 1" (3000RPM)
ISOLATION VALVE SIZES:
 DISCHARGE ISOLATION VALVE SIZE: 2"
 DISCHARGE MANIFOLD SIZE: 2"

POWER REQUIREMENTS: 240V, 60HZ, 1PHZ, 32FLA (EST.)
 EXHAUST FAN REQUIREMENTS: 240CFM

STATION COMPONENTS:
 A PUMP AND MOTOR
 B CHECK VALVE
 C PRESSURE TRANSDUCER WITH GAUGE
 D BYPASS VALVE
 E FLOW SENSOR
 F TEMP SENSOR
 G STATION FAN HOOD MOUNTED
 H PUMP INTAKE ISOLATION VALVE
 I MARINE GRADE ALUMINUM ENCLOSURE (UNPAINTED)
 J VFD WITH PUMP CONTROLLER
 K STAINLESS STEEL BASE (UNPAINTED)
 L PUMP DISCHARGE ISOLATION VALVE
 M STATION DISCHARGE ISOLATION VALVE
 N DEAD-FRONT DISCONNECT PANEL
 O INTAKE DROP PIPE W/ 2" FLG CONNECTION
 P DISCHARGE DROP PIPE W/ 2" FLG CONNECTION

ENCLOSURE ISOMETRIC VIEW

DETAIL "A" CONCRETE ANCHOR TYPICAL (4) LOCATIONS

POWER PENETRATION

ANCHOR POINT SEE DETAIL

BASE & SLAB DETAIL

HIGH VOLTAGE POWER CONDUIT

<input type="checkbox"/> APPROVED AS SUBMITTED	7										
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	4										
	3										
	2										
	1										
	NO.	DATE	BY	DESCRIPTION							

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 CHECKED BY: DATE:
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 IRRIGATION PUMP STATION

SCALE: NTS SHEET 1 OF 1 SHEETS
 JOB NO.: DRAWING NO. PRS14332

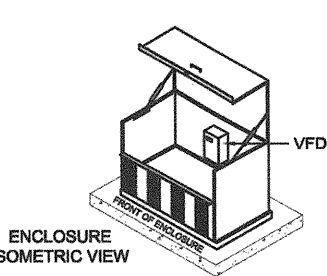
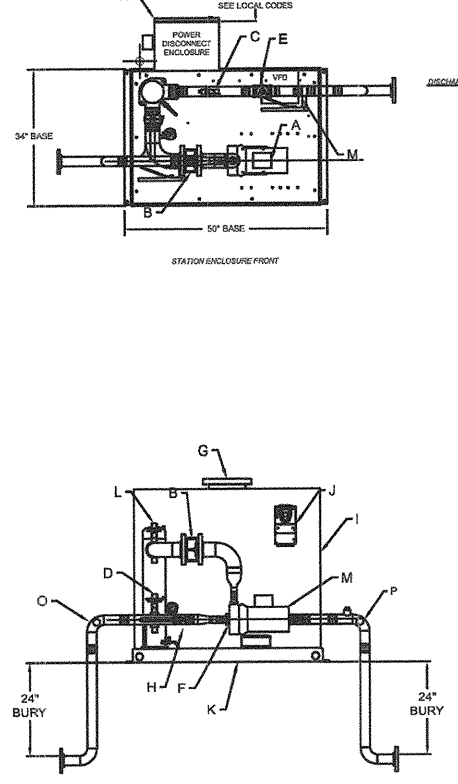
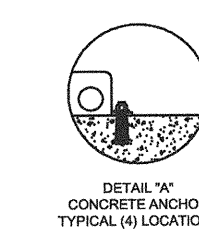
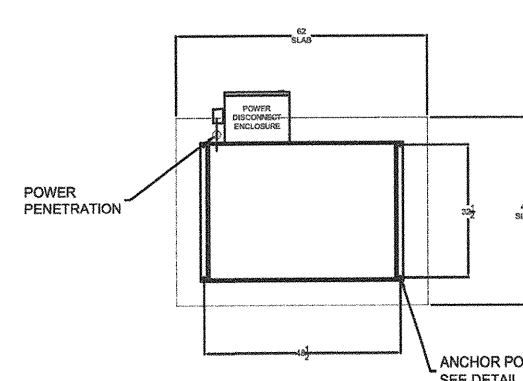
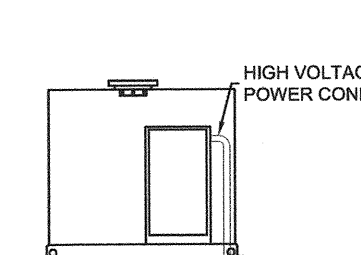
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PUMP STATION SPECIFICATIONS:
 NAME: FIRE DAMAGED ROADWAYS - POC J1
 STATION MODEL: WMBV-6000-7A-1-5-240-1-19-95
 STATION TOTAL PERFORMANCE: 19 GPM @ 90 PSI
 DYNAMIC INLET PRESSURE: 50 PSI
 BOOST PRESSURE: 45 PSI
 REGULATED DISCHARGE PRESSURE: 95 PSI
 PUMP HORSEPOWER:
 PUMP NO. 1: 1.5HP (3000RPM)
CHECK VALVE SIZES:
 PUMP NO. 1: 1" (3000RPM)
ISOLATION VALVE SIZES:
 DISCHARGE ISOLATION VALVE SIZE: 2"
 DISCHARGE MANIFOLD SIZE: 2"

POWER REQUIREMENTS: 240V, 60HZ, 1PHZ, 18FLA (EST.)
 EXHAUST FAN REQUIREMENTS: 240CFM

STATION COMPONENTS:
 A PUMP AND MOTOR
 B CHECK VALVE
 C PRESSURE TRANSDUCER WITH GAUGE
 D BYPASS VALVE
 E FLOW SENSOR
 F TEMP SENSOR
 G STATION FAN HOOD MOUNTED
 H PUMP INTAKE ISOLATION VALVE
 I MARINE GRADE ALUMINUM ENCLOSURE (UNPAINTED)
 J VFD WITH PUMP CONTROLLER
 K STAINLESS STEEL BASE (UNPAINTED)
 L PUMP DISCHARGE ISOLATION VALVE
 M STATION DISCHARGE ISOLATION VALVE
 N DEAD-FRONT DISCONNECT PANEL
 O INTAKE DROP PIPE W/ 2" FLG CONNECTION
 P DISCHARGE DROP PIPE W/ 2" FLG CONNECTION

ENCLOSURE ISOMETRIC VIEW

DETAIL "A" CONCRETE ANCHOR TYPICAL (4) LOCATIONS

POWER PENETRATION

ANCHOR POINT SEE DETAIL

BASE & SLAB DETAIL

HIGH VOLTAGE POWER CONDUIT

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<input type="checkbox"/> APPROVED AS NOTED	6										
<input type="checkbox"/> REVISE AND RESUBMIT	5										
	4										
	3										
	2										
	1										
	NO.	DATE	BY	DESCRIPTION							

DRAWN BY: PJB DATE: 02/15/2021
 CHECKED BY: DATE:
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 IRRIGATION PUMP STATION

SCALE: NTS SHEET 1 OF 1 SHEETS
 JOB NO.: DRAWING NO. PRS14333

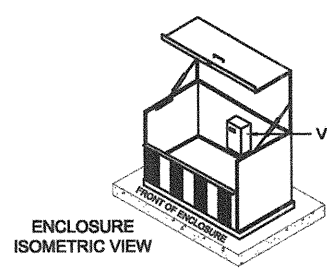
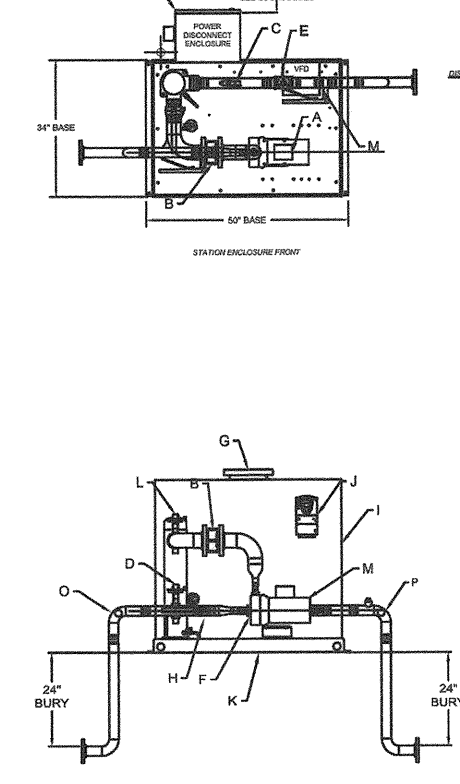
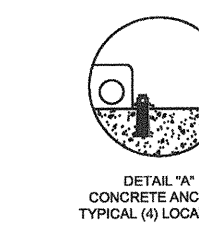
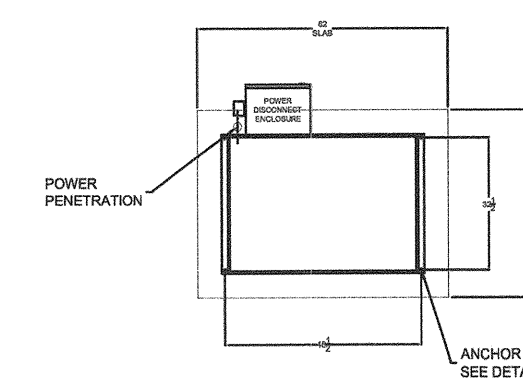
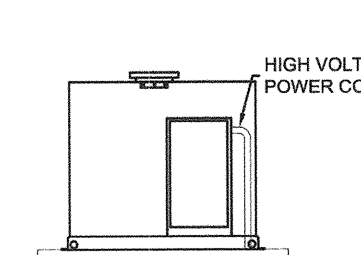
WATERTRONICS

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PUMP STATION SPECIFICATIONS:
 NAME: FIRE DAMAGED ROADWAYS - POC J2
 STATION MODEL: WMBV-6000-7A-1-5-240-1-19-95
 STATION TOTAL PERFORMANCE: 19 GPM @ 90 PSI
 DYNAMIC INLET PRESSURE: 50 PSI
 BOOST PRESSURE: 45 PSI
 REGULATED DISCHARGE PRESSURE: 95 PSI
 PUMP HORSEPOWER:
 PUMP NO. 1: 1.5HP (3000RPM)
CHECK VALVE SIZES:
 PUMP NO. 1: 1" (3000RPM)
ISOLATION VALVE SIZES:
 DISCHARGE ISOLATION VALVE SIZE: 2"
 DISCHARGE MANIFOLD SIZE: 2"

POWER REQUIREMENTS: 240V, 60HZ, 1PHZ, 18FLA (EST.)
 EXHAUST FAN REQUIREMENTS: 240CFM

STATION COMPONENTS:
 A PUMP AND MOTOR
 B CHECK VALVE
 C PRESSURE TRANSDUCER WITH GAUGE
 D BYPASS VALVE
 E FLOW SENSOR
 F TEMP SENSOR
 G STATION FAN HOOD MOUNTED
 H PUMP INTAKE ISOLATION VALVE
 I MARINE GRADE ALUMINUM ENCLOSURE (UNPAINTED)
 J VFD WITH PUMP CONTROLLER
 K STAINLESS STEEL BASE (UNPAINTED)
 L PUMP DISCHARGE ISOLATION VALVE
 M STATION DISCHARGE ISOLATION VALVE
 N DEAD-FRONT DISCONNECT PANEL
 O INTAKE DROP PIPE W/ 2" FLG CONNECTION
 P DISCHARGE DROP PIPE W/ 2" FLG CONNECTION

ENCLOSURE ISOMETRIC VIEW

DETAIL "A" CONCRETE ANCHOR TYPICAL (4) LOCATIONS

POWER PENETRATION

ANCHOR POINT SEE DETAIL

BASE & SLAB DETAIL

HIGH VOLTAGE POWER CONDUIT

<input type="checkbox"/> APPROVED AS SUBMITTED	7										
<input type="checkbox"/> APPROVED AS NOTED	6										
<input type="checkbox"/> REVISE AND RESUBMIT	5										
	4										
	3										
	2										
	1										
	NO.	DATE	BY	DESCRIPTION							

DRAWN BY: PJB DATE: 02/15/2021
 CHECKED BY: DATE:
 TITLE: FIRE DAMAGED ROADWAYS - POC J2
 IRRIGATION PUMP STATION

SCALE: NTS SHEET 1 OF 1 SHEETS
 JOB NO.: DRAWING NO. PRS14333

WATERTRONICS

THIS DRAWING AND DESIGN IS THE PROPERTY OF WATERTRONICS AND IS NOT TO BE REPRODUCED IN WHOLE OR PART, NOR EMPLOYED FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY WATERTRONICS. THIS DRAWING LOANED AND SUBJECT TO RETURN ON DEMAND.

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

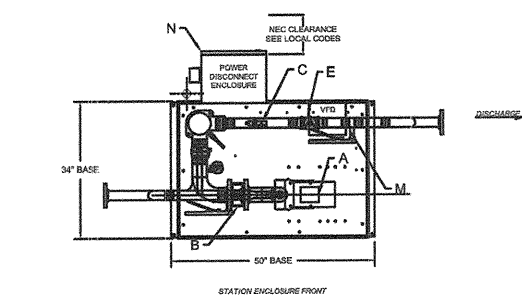
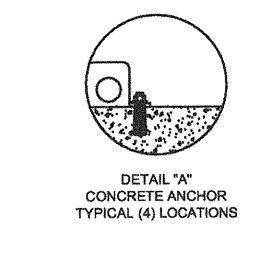
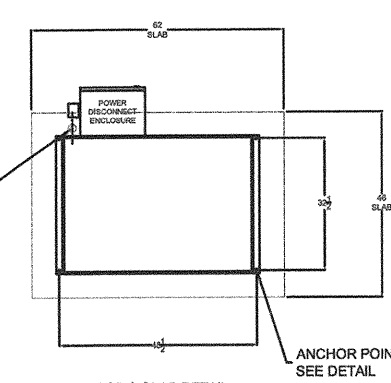
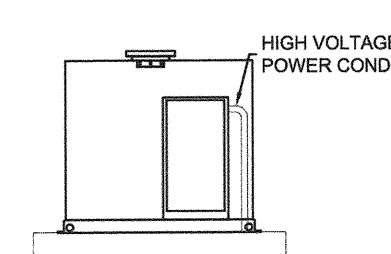
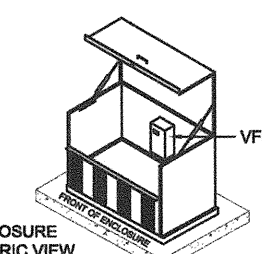
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
IRRIGATION PUMP DETAILS

File Path: S:\Client Files\Cad\Drawings\Projects\Santa Rosa\Sheet\Drawings\4 - Submittal\100610.DWG In progress\100610_SHEETS\ir ALL.dwg Plot Date: 5/11/21 Saved By: Janet Copyright © 2017, Calaveras Associates Architecture, Inc.

PUMP STATION SPECIFICATIONS:
NAME: FIRE DAMAGED ROADWAYS - POC K1
STATION MODEL: WMBV 5000-7A-1.5-240-1-19-60
STATION TOTAL PERFORMANCE: 19 GPM @ 60 PSI
DYNAMIC INLET PRESSURE: 19 PSI
BOOST PRESSURE: 42 PSI
REGULATED DISCHARGE PRESSURE: 60 PSI
PUMP HORSEPOWER:
PUMP NO. 1: 1 SHP (3600RPM)
CHECK VALVE SIZES:
PUMP NO. 1 3"
ISOLATION VALVE SIZES:
DISCHARGE ISOLATION VALVE SIZE: 2"
DISCHARGE MANIFOLD SIZE: 2"

POWER REQUIREMENTS: 240V, 60HZ, 1PHZ, 18FLA (EST)
EXHAUST FAN REQUIREMENTS: 240CFM

STATION COMPONENTS:
A PUMP AND MOTOR
B CHECK VALVE
C PRESSURE TRANSDUCER WITH GAUGE
D BYPASS VALVE
E FLOW SENSOR
F TEMP SENSOR
G STATION FAN HOOD MOUNTED
H PUMP INTAKE ISOLATION VALVE
I MARINE GRADE ALUMINUM ENCLOSURE (UNPAINTED)
J VFD WITH PUMP CONTROLLER
K STAINLESS STEEL BASE (UNPAINTED)
L PUMP DISCHARGE ISOLATION VALVE
M STATION DISCHARGE ISOLATION VALVE
N DEAD-FRONT DISCONNECT PANEL
O INTAKE DROP PIPE W/ 2" FLG CONNECTION
P DISCHARGE DROP PIPE W/ 2" FLG CONNECTION

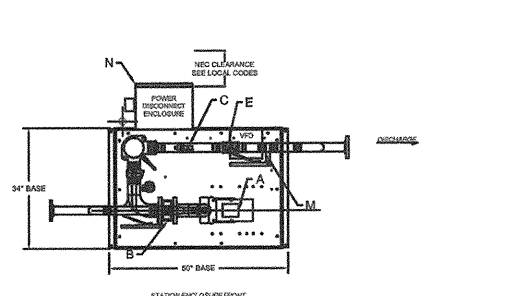
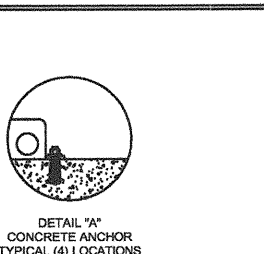
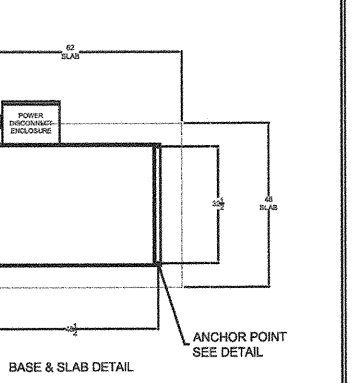
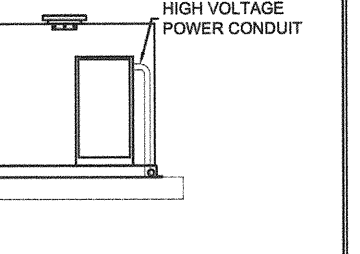
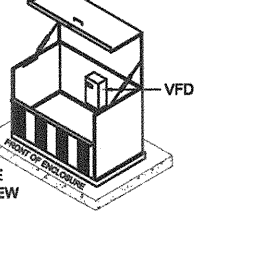
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	NO.	DATE	BY	DESCRIPTION			

DRAWN BY: PJB DATE: 02/15/2021
CHECKED BY: DATE:
TITLE: FIRE DAMAGED ROADWAYS - POC K1
IRRIGATION PUMP STATION
WATERTRONICS
SCALE: NTS SHEET 1 OF 1 SHEETS
JOB NO.: DRAWING NO. PRST14335

PUMP STATION SPECIFICATIONS:
NAME: FIRE DAMAGED ROADWAYS - POC K2
STATION MODEL: WMBV 5000-7A-1.5-240-1-19-60
STATION TOTAL PERFORMANCE: 19 GPM @ 60 PSI
DYNAMIC INLET PRESSURE: 19 PSI
BOOST PRESSURE: 42 PSI
REGULATED DISCHARGE PRESSURE: 60 PSI
PUMP HORSEPOWER:
PUMP NO. 1: 1 SHP (3600RPM)
CHECK VALVE SIZES:
PUMP NO. 1 3"
ISOLATION VALVE SIZES:
DISCHARGE ISOLATION VALVE SIZE: 2"
DISCHARGE MANIFOLD SIZE: 2"

POWER REQUIREMENTS: 240V, 60HZ, 1PHZ, 18FLA (EST)
EXHAUST FAN REQUIREMENTS: 240CFM

STATION COMPONENTS:
A PUMP AND MOTOR
B CHECK VALVE
C PRESSURE TRANSDUCER WITH GAUGE
D BYPASS VALVE
E FLOW SENSOR
F TEMP SENSOR
G STATION FAN HOOD MOUNTED
H PUMP INTAKE ISOLATION VALVE
I MARINE GRADE ALUMINUM ENCLOSURE (UNPAINTED)
J VFD WITH PUMP CONTROLLER
K STAINLESS STEEL BASE (UNPAINTED)
L PUMP DISCHARGE ISOLATION VALVE
M STATION DISCHARGE ISOLATION VALVE
N DEAD-FRONT DISCONNECT PANEL
O INTAKE DROP PIPE W/ 2" FLG CONNECTION
P DISCHARGE DROP PIPE W/ 2" FLG CONNECTION

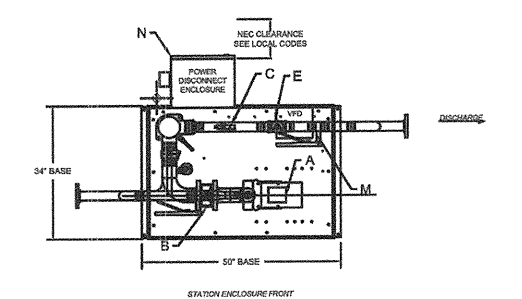
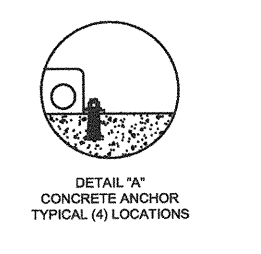
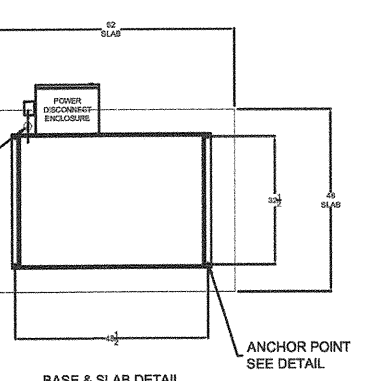
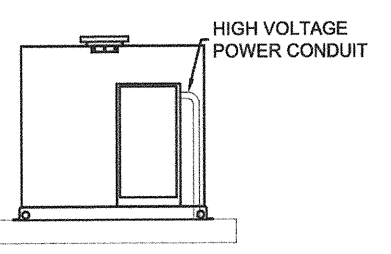
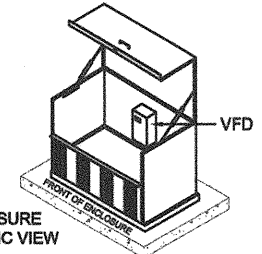
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DRAWN BY: PJB DATE: 02/15/2021
CHECKED BY: DATE:
TITLE: FIRE DAMAGED ROADWAYS - POC K2
IRRIGATION PUMP STATION
WATERTRONICS
SCALE: NTS SHEET 1 OF 1 SHEETS
JOB NO.: DRAWING NO. PRST14338

PUMP STATION SPECIFICATIONS:
NAME: FIRE DAMAGED ROADWAYS - POC L1
STATION MODEL: WMBV 5000-7A-1.5-240-1-19-60
STATION TOTAL PERFORMANCE: 19 GPM @ 60 PSI
DYNAMIC INLET PRESSURE: 19 PSI
BOOST PRESSURE: 42 PSI
REGULATED DISCHARGE PRESSURE: 60 PSI
PUMP HORSEPOWER:
PUMP NO. 1: 1 SHP (3600RPM)
CHECK VALVE SIZES:
PUMP NO. 1 3"
ISOLATION VALVE SIZES:
DISCHARGE ISOLATION VALVE SIZE: 2"
DISCHARGE MANIFOLD SIZE: 2"

POWER REQUIREMENTS: 240V, 60HZ, 1PHZ, 18FLA (EST)
EXHAUST FAN REQUIREMENTS: 240CFM

STATION COMPONENTS:
A PUMP AND MOTOR
B CHECK VALVE
C PRESSURE TRANSDUCER WITH GAUGE
D BYPASS VALVE
E FLOW SENSOR
F TEMP SENSOR
G STATION FAN HOOD MOUNTED
H PUMP INTAKE ISOLATION VALVE
I MARINE GRADE ALUMINUM ENCLOSURE (UNPAINTED)
J VFD WITH PUMP CONTROLLER
K STAINLESS STEEL BASE (UNPAINTED)
L PUMP DISCHARGE ISOLATION VALVE
M STATION DISCHARGE ISOLATION VALVE
N DEAD-FRONT DISCONNECT PANEL
O INTAKE DROP PIPE W/ 2" FLG CONNECTION
P DISCHARGE DROP PIPE W/ 2" FLG CONNECTION

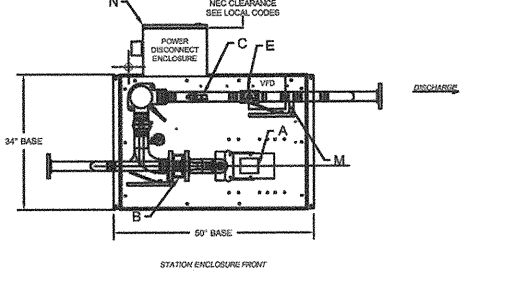
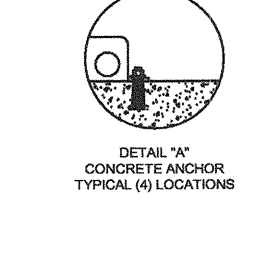
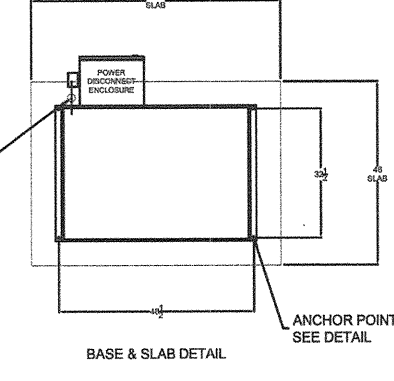
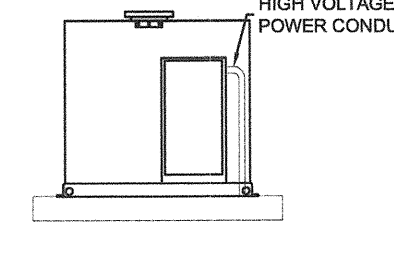
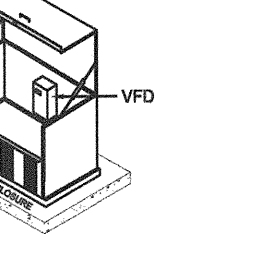
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DRAWN BY: PJB DATE: 02/15/2021
CHECKED BY: DATE:
TITLE: FIRE DAMAGED ROADWAYS - POC L1
IRRIGATION PUMP STATION
WATERTRONICS
SCALE: NTS SHEET 1 OF 1 SHEETS
JOB NO.: DRAWING NO. PRST14337

PUMP STATION SPECIFICATIONS:
NAME: FIRE DAMAGED ROADWAYS - POC L2
STATION MODEL: WMBV 5000-7A-1.5-240-1-19-60
STATION TOTAL PERFORMANCE: 19 GPM @ 60 PSI
DYNAMIC INLET PRESSURE: 19 PSI
BOOST PRESSURE: 42 PSI
REGULATED DISCHARGE PRESSURE: 60 PSI
PUMP HORSEPOWER:
PUMP NO. 1: 1 SHP (3600RPM)
CHECK VALVE SIZES:
PUMP NO. 1 3"
ISOLATION VALVE SIZES:
DISCHARGE ISOLATION VALVE SIZE: 2"
DISCHARGE MANIFOLD SIZE: 2"

POWER REQUIREMENTS: 240V, 60HZ, 1PHZ, 18FLA (EST)
EXHAUST FAN REQUIREMENTS: 240CFM

STATION COMPONENTS:
A PUMP AND MOTOR
B CHECK VALVE
C PRESSURE TRANSDUCER WITH GAUGE
D BYPASS VALVE
E FLOW SENSOR
F TEMP SENSOR
G STATION FAN HOOD MOUNTED
H PUMP INTAKE ISOLATION VALVE
I MARINE GRADE ALUMINUM ENCLOSURE (UNPAINTED)
J VFD WITH PUMP CONTROLLER
K STAINLESS STEEL BASE (UNPAINTED)
L PUMP DISCHARGE ISOLATION VALVE
M STATION DISCHARGE ISOLATION VALVE
N DEAD-FRONT DISCONNECT PANEL
O INTAKE DROP PIPE W/ 2" FLG CONNECTION
P DISCHARGE DROP PIPE W/ 2" FLG CONNECTION

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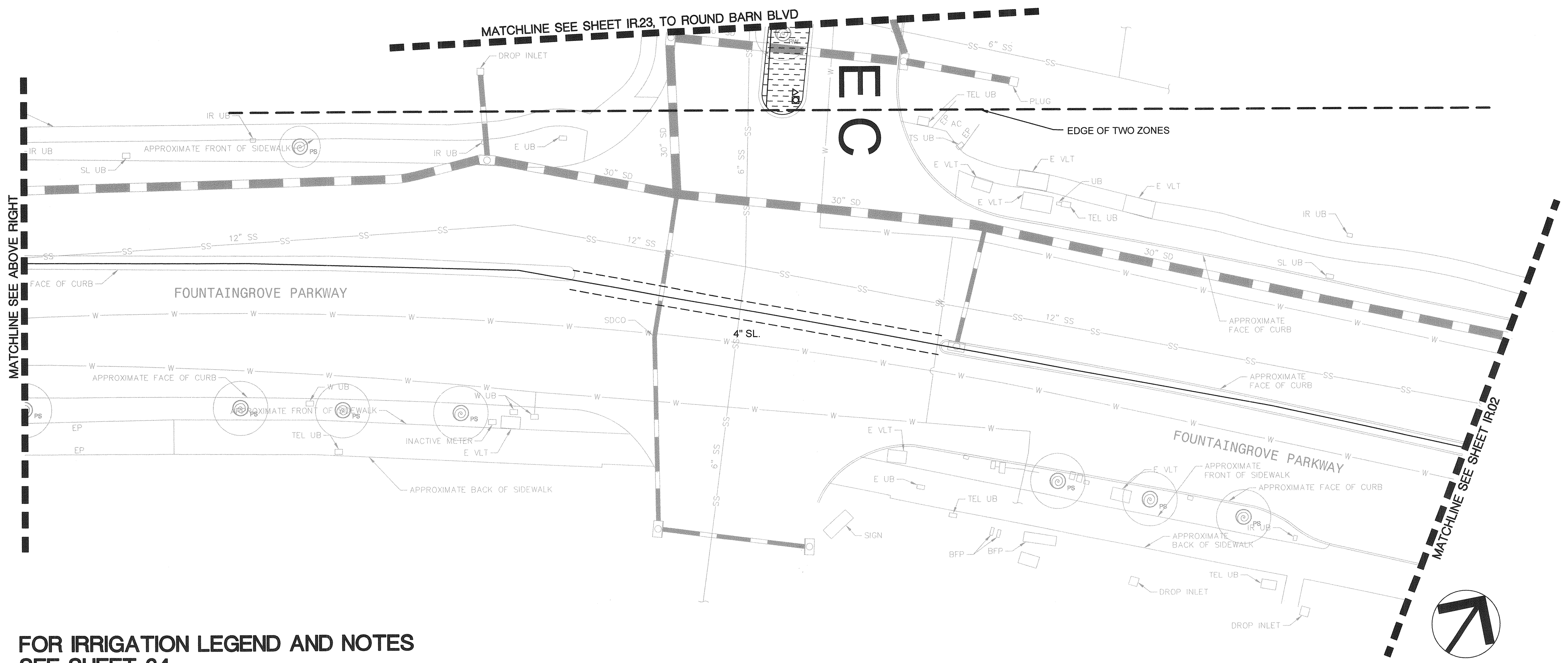
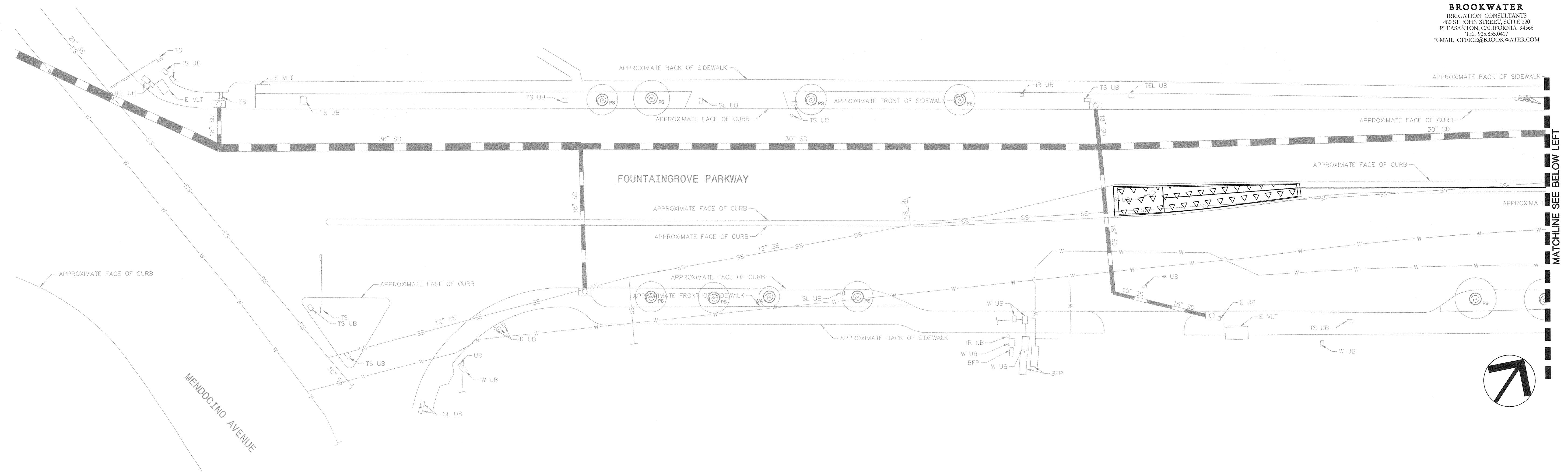
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IRRIGATION PUMP STATION
WATERTRONICS
SCALE: NTS SHEET 1 OF 1 SHEETS
JOB NO.: DRAWING NO. PRST14338

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING
IRRIGATION PUMP DETAILS

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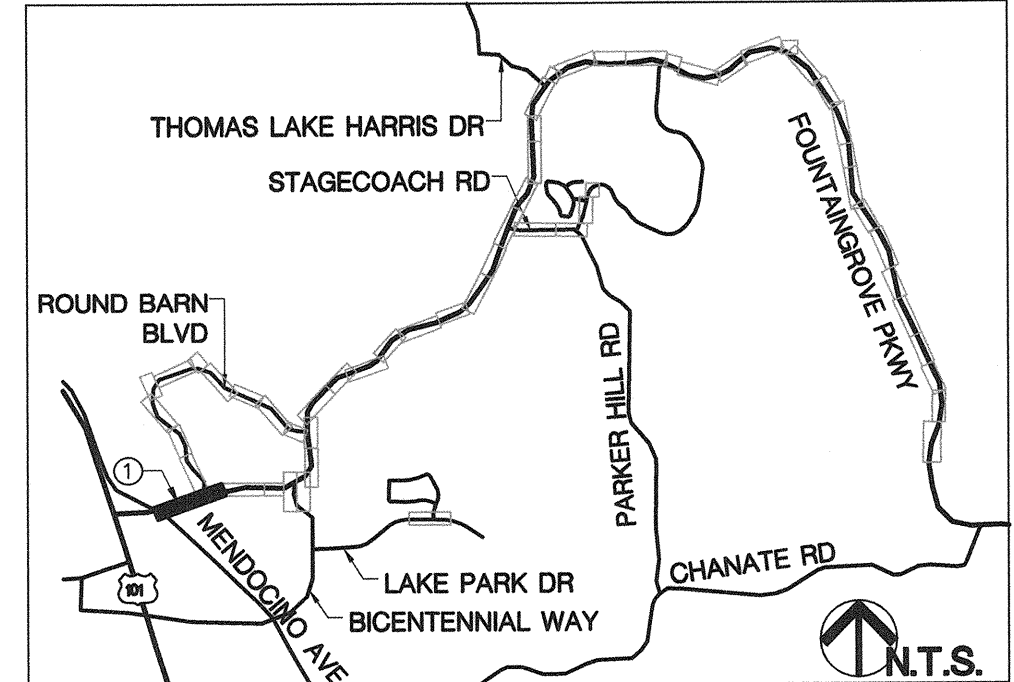


LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.

KEY MAP



**FOR IRRIGATION LEGEND AND NOTES
 SEE SHEET 64**

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING

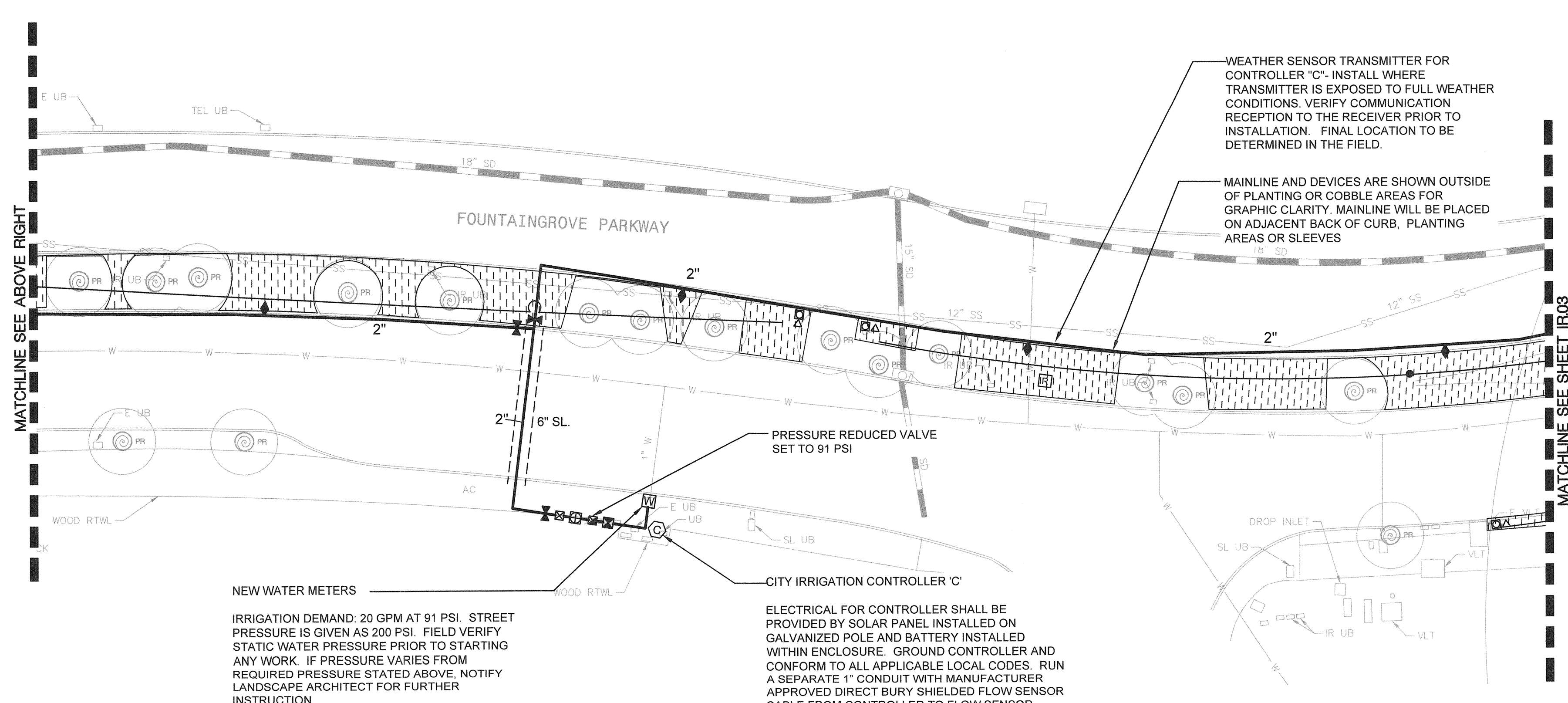
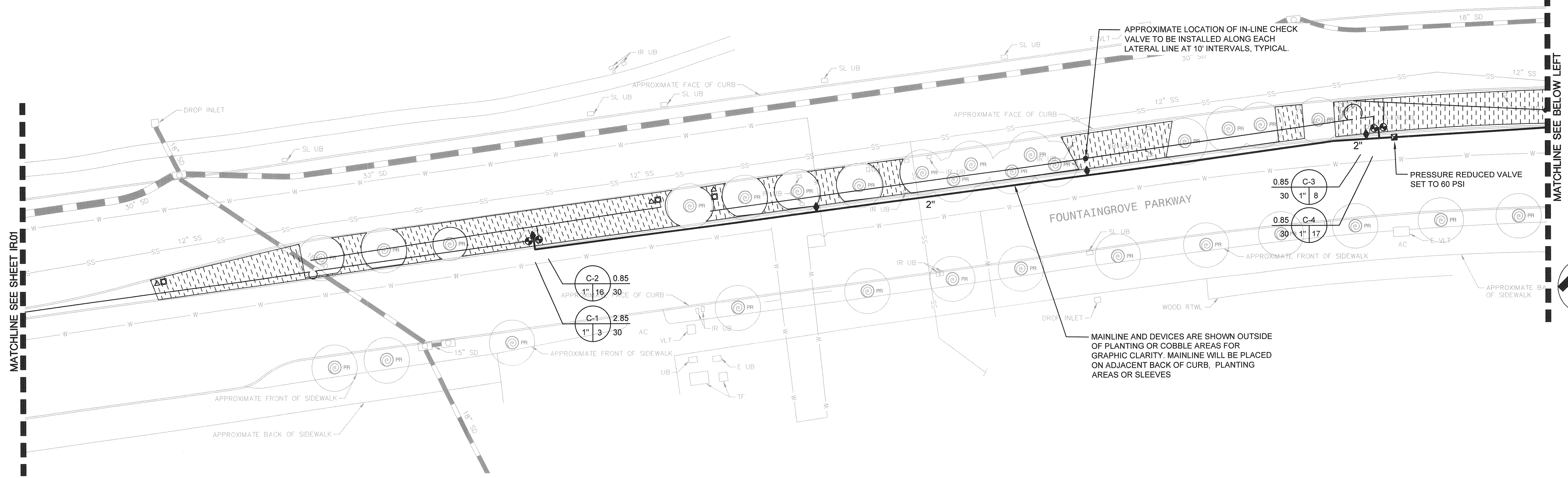
IRRIGATION PLAN

CONTRACT NO. CO2300
 SHEET 70 OF 139
 FILE NO. 2020-0011

IR.01

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NO.	DATE	REVISION	BY



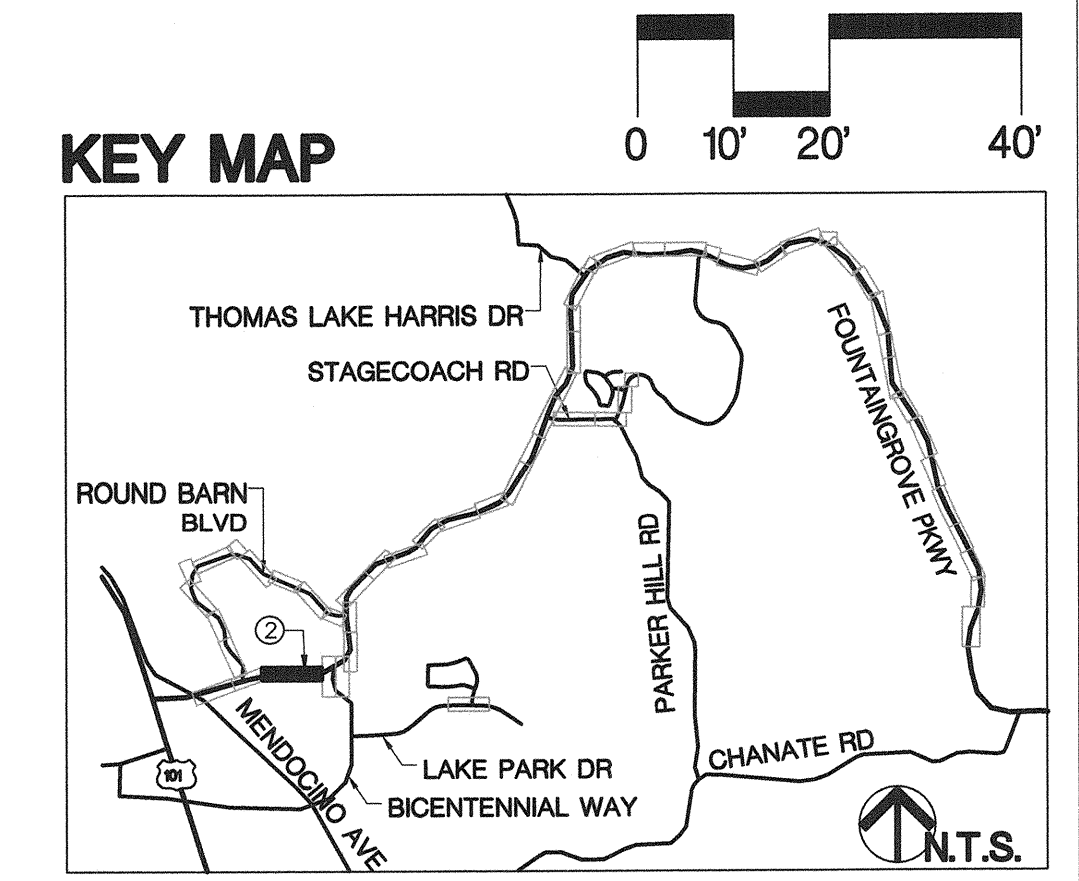
LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.

NEW WATER METERS
IRRIGATION DEMAND: 20 GPM AT 91 PSI. STREET PRESSURE IS GIVEN AS 200 PSI. FIELD VERIFY STATIC WATER PRESSURE PRIOR TO STARTING ANY WORK. IF PRESSURE VARIES FROM REQUIRED PRESSURE STATED ABOVE, NOTIFY LANDSCAPE ARCHITECT FOR FURTHER INSTRUCTION.

CITY IRRIGATION CONTROLLER 'C'
ELECTRICAL FOR CONTROLLER SHALL BE PROVIDED BY SOLAR PANEL INSTALLED ON GALVANIZED POLE AND BATTERY INSTALLED WITHIN ENCLOSURE. GROUND CONTROLLER AND CONFORM TO ALL APPLICABLE LOCAL CODES. RUN A SEPARATE 1" CONDUIT WITH MANUFACTURER APPROVED DIRECT BURY SHIELDED FLOW SENSOR CABLE FROM CONTROLLER TO FLOW SENSOR.



FOR IRRIGATION LEGEND AND NOTES SEE SHEET 64

I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

IR.02

Brookwater, Inc. (Client File) - California Project - Santa Rosa, Mendocino County, CA - 5/14/2021 - Saved By: Janet Luehris
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MATCHLINE SEE SHEET IR.02

BROOKWATER
 IRRIGATION CONSULTANTS
 480 ST. JOHN STREET, SUITE 220
 PLEASANTON, CALIFORNIA 94566
 TEL. 925.855.0417
 E-MAIL: OFFICE@BROOKWATER.COM

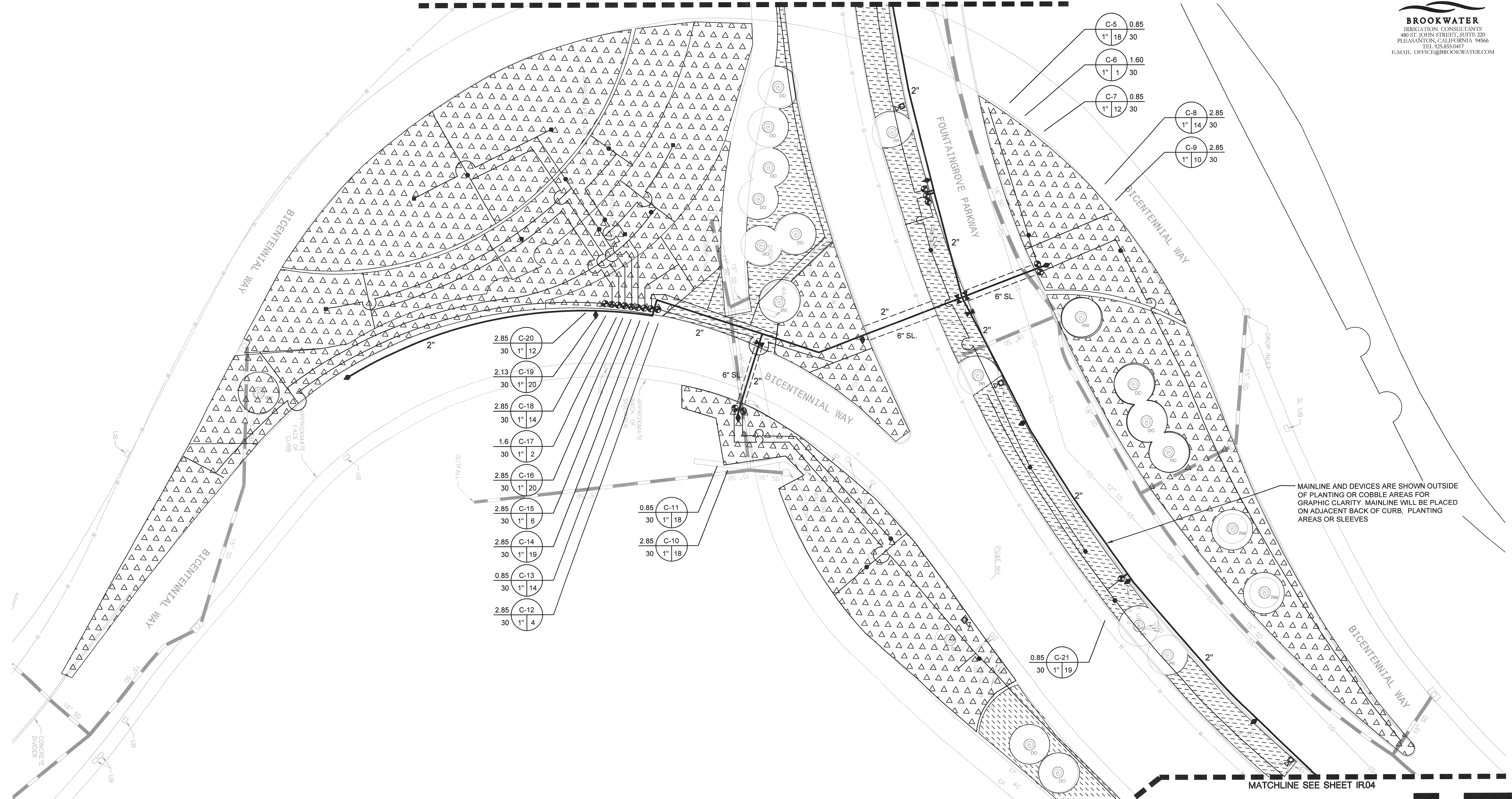


City of
Santa Rosa

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
IRRIGATION PLAN
 CONTRACT NO. CO2300
 SHEET 72 OF 139
 FILE NO. 2020-0011



MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES

- 2.85 C-20
30 1" 12
- 2.13 C-19
30 1" 20
- 2.85 C-18
30 1" 14
- 1.6 C-17
30 1" 2
- 2.85 C-16
30 1" 20
- 2.85 C-15
30 1" 6
- 2.85 C-14
30 1" 19
- 0.85 C-13
30 1" 14
- 2.85 C-12
30 1" 4

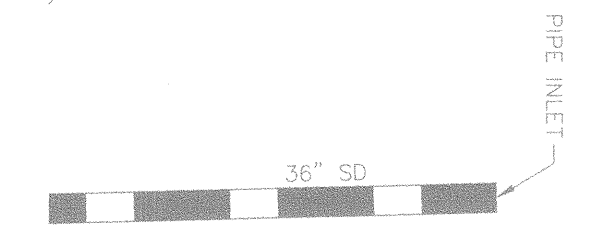
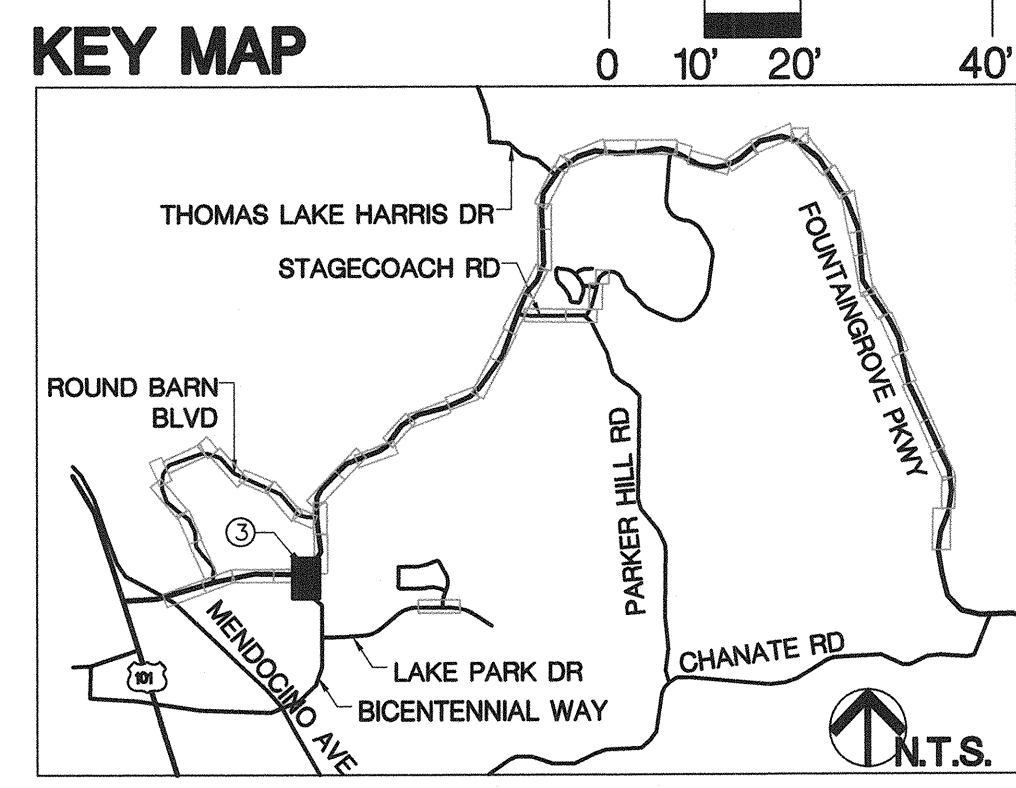
- 0.85 C-11
30 1" 18
- 2.85 C-10
30 1" 18

- C-5 0.85
1" 18 30
- C-6 1.60
1" 1 30
- C-7 0.85
1" 12 30
- C-8 2.85
1" 14 30
- C-9 2.85
1" 10 30

LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.



FOR IRRIGATION LEGEND AND NOTES SEE SHEET 64

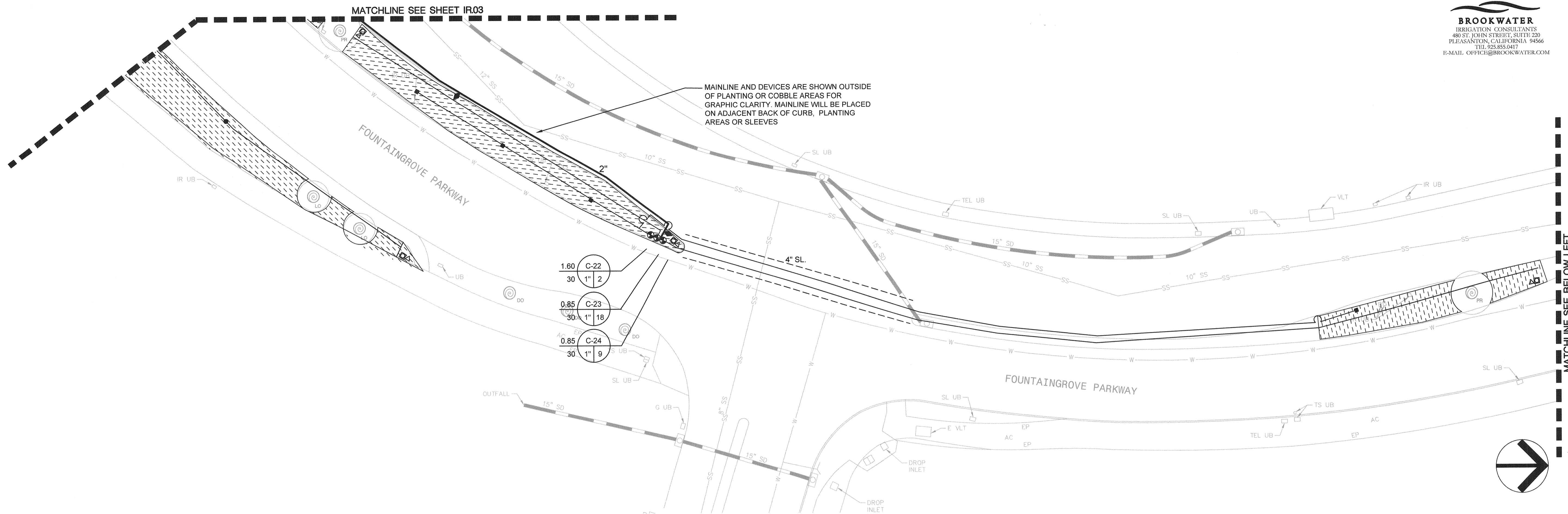
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IR.03

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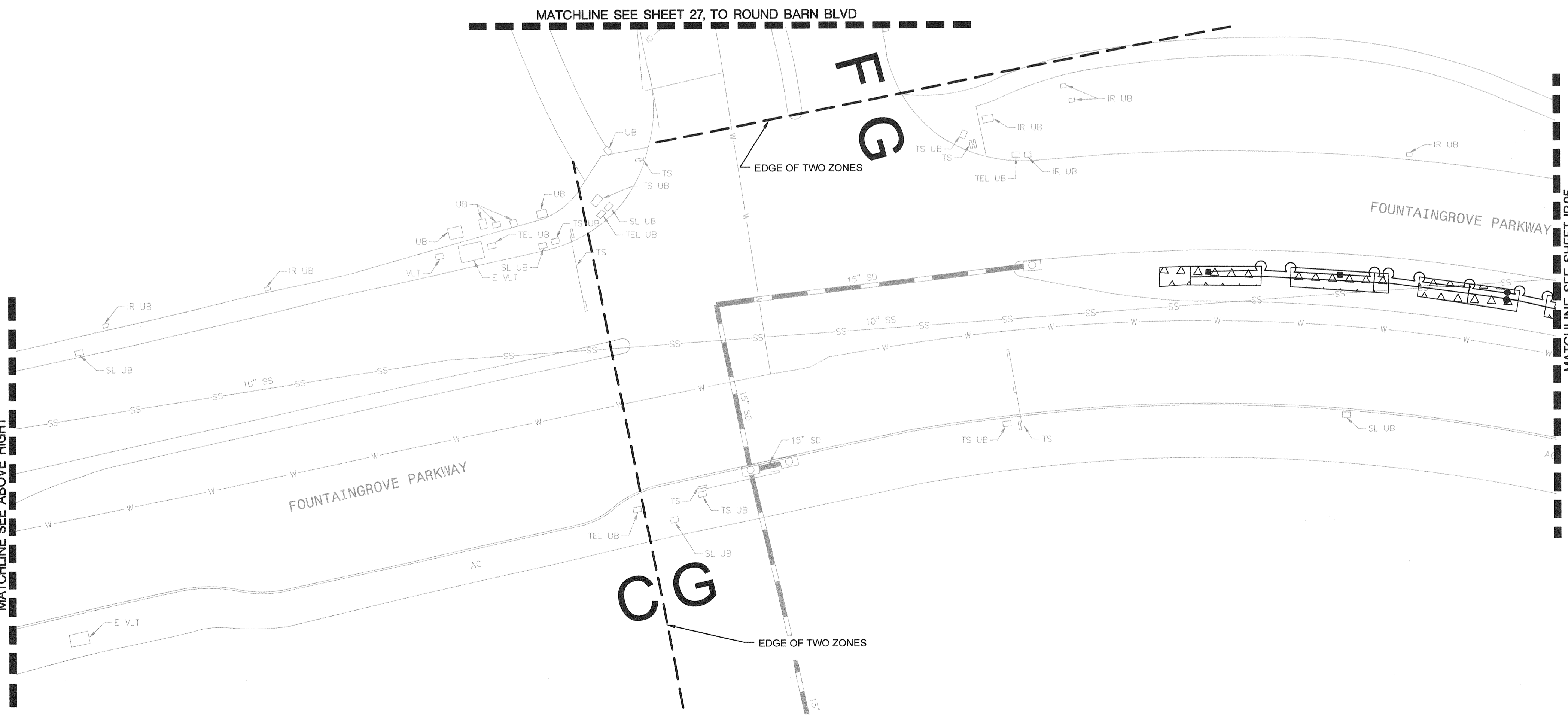
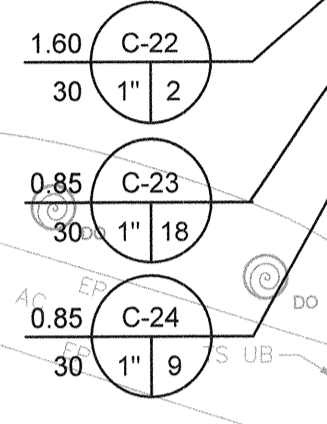
NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

CITY OF SANTA ROSA	IRRIGATION PLAN
FIRE DAMAGED ROADWAY LANDSCAPING	
CONTRACT NO. CO2300	
SHEET 73 OF 139	
FILE NO. 2020-0011	



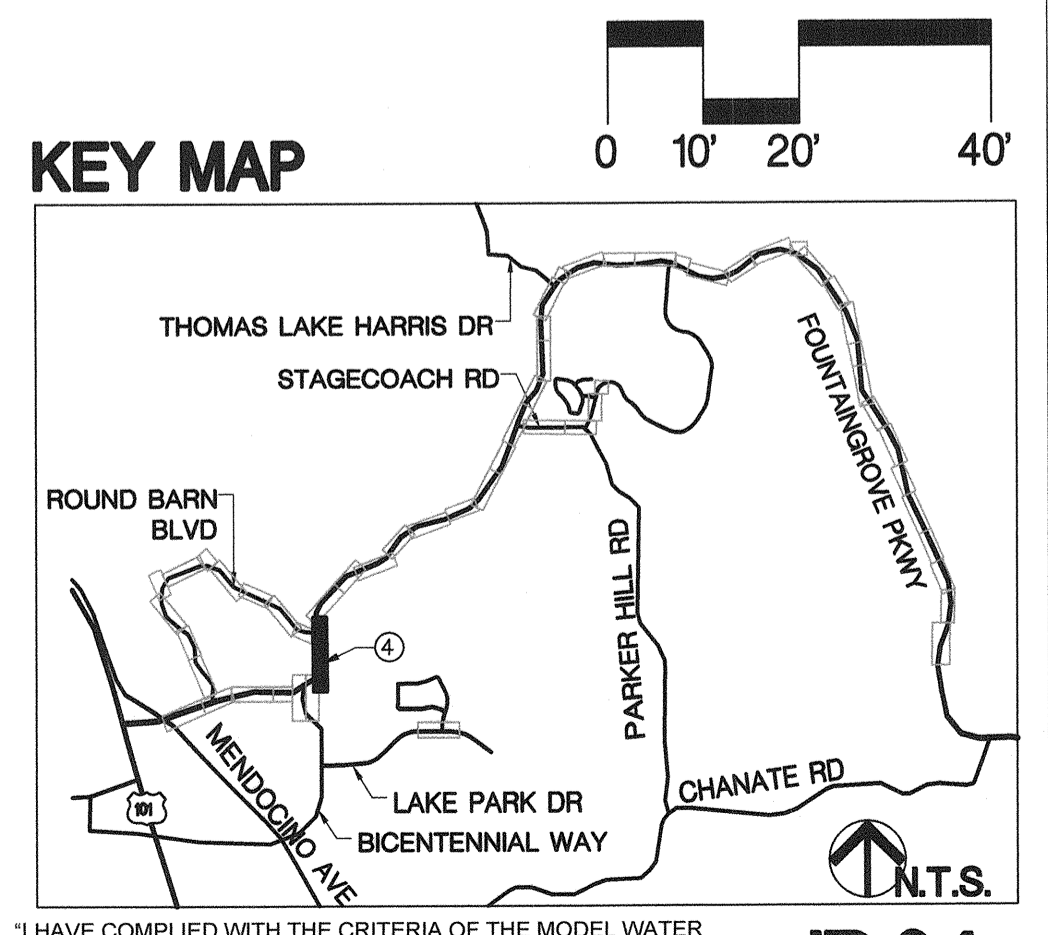
MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES



LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

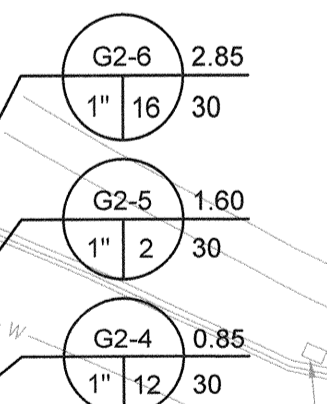
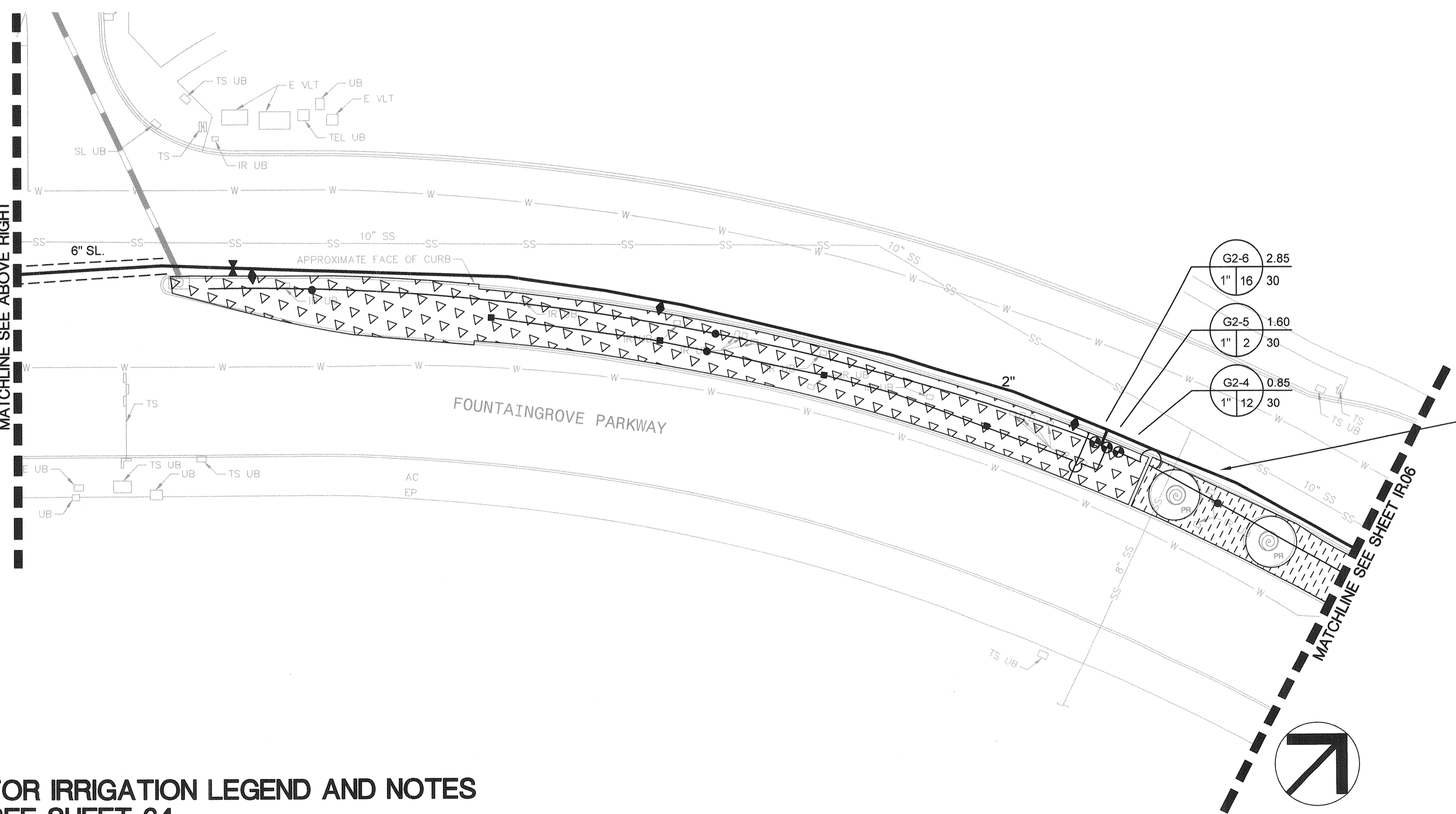
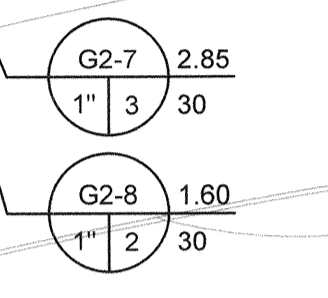
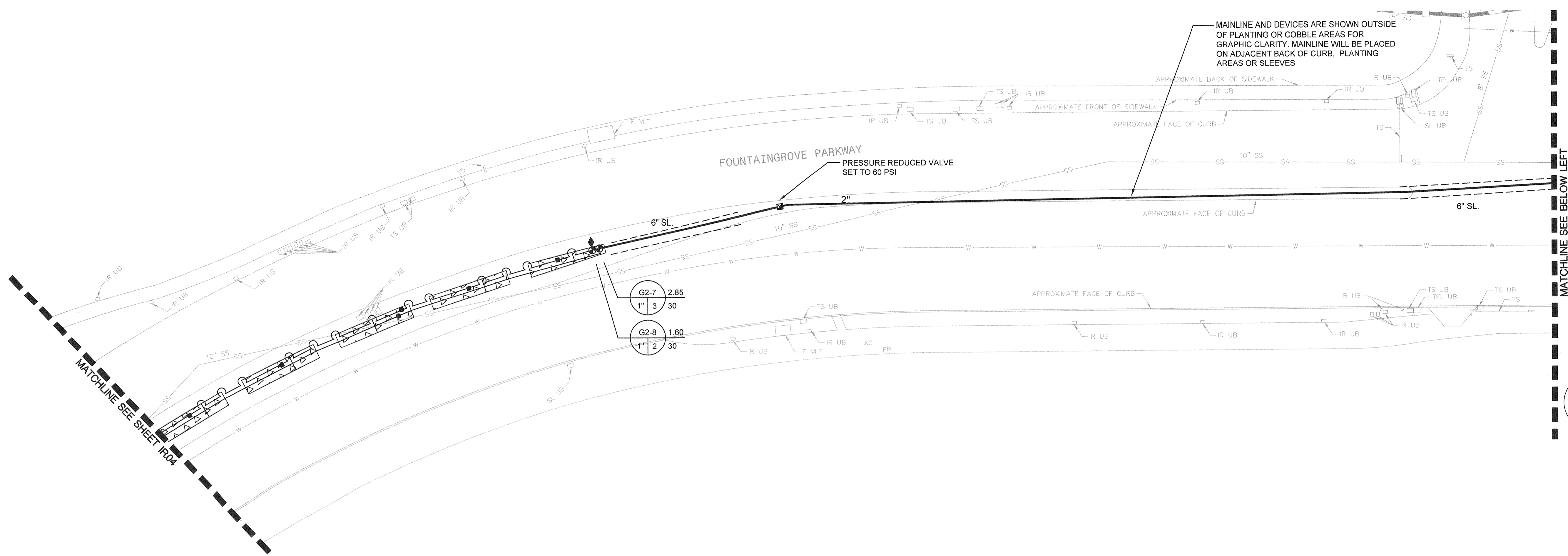
* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.



"I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN."

IR.04

FOR IRRIGATION LEGEND AND NOTES
 SEE SHEET 64



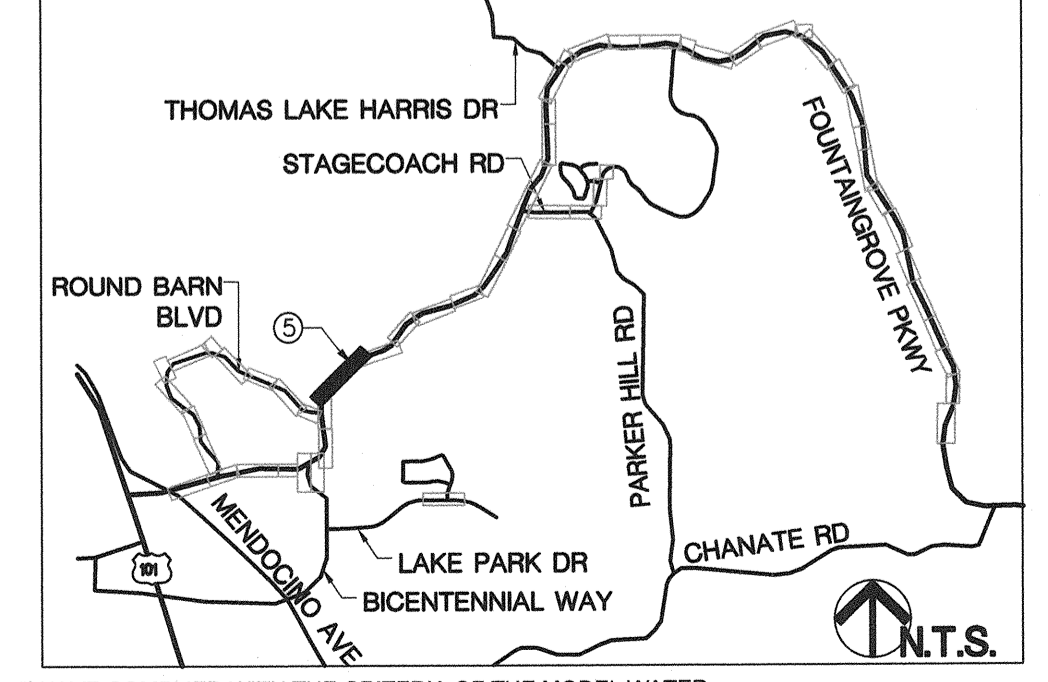
MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES

LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-98	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.

KEY MAP



FOR IRRIGATION LEGEND AND NOTES
 SEE SHEET 64

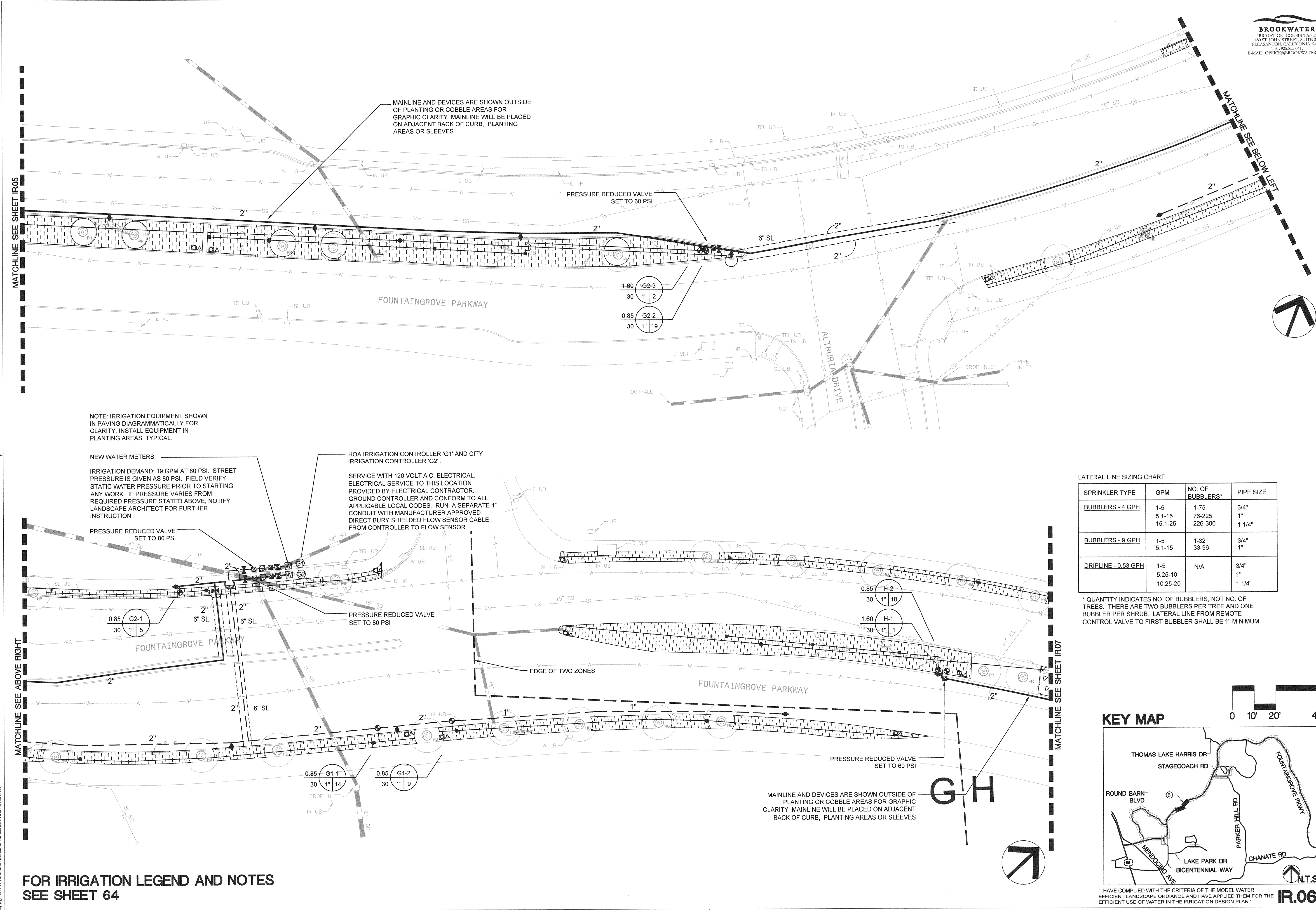
NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

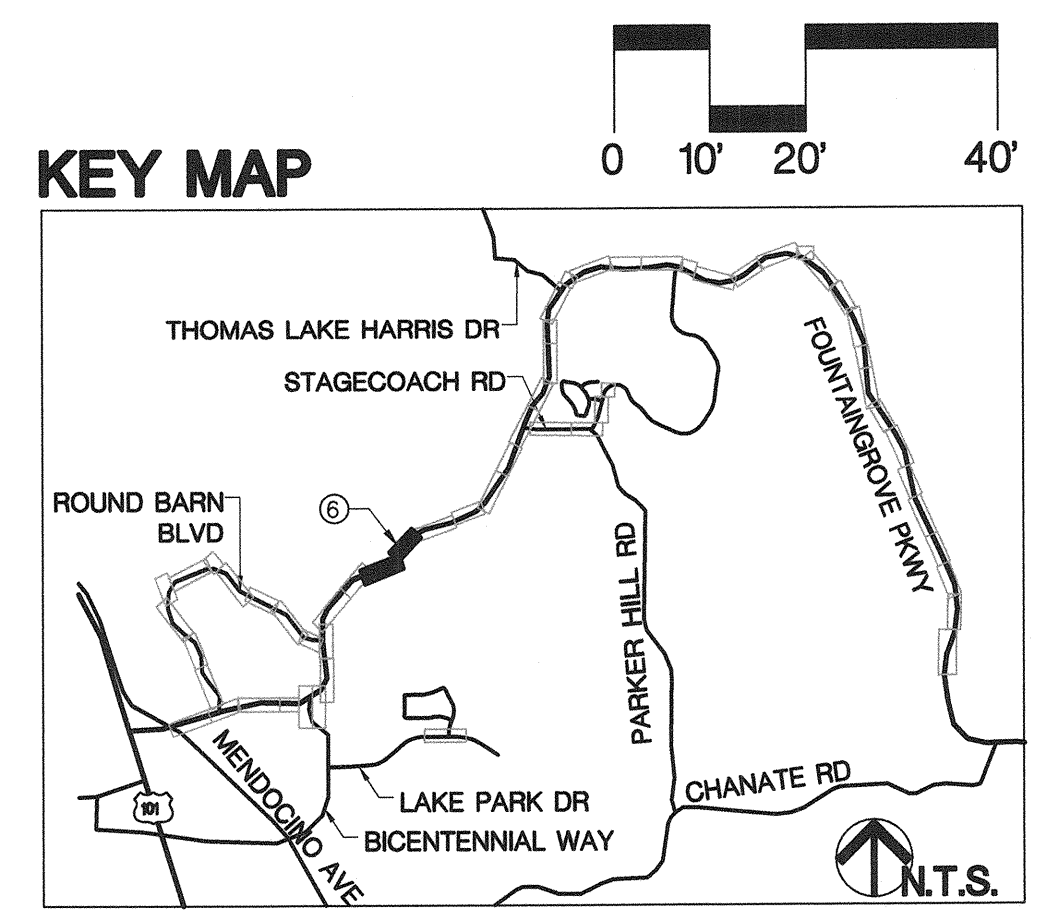
CITY OF SANTA ROSA	IRRIGATION PLAN
FIRE DAMAGED ROADWAY LANDSCAPING	
CONTRACT NO. CO2300	
SHEET 75 OF 139	FILE NO. 2020-0011



LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.



File Path: C:\Users\jluen\OneDrive\Documents\Projects\2020\2020-0011\IR.06\IR.06.dwg
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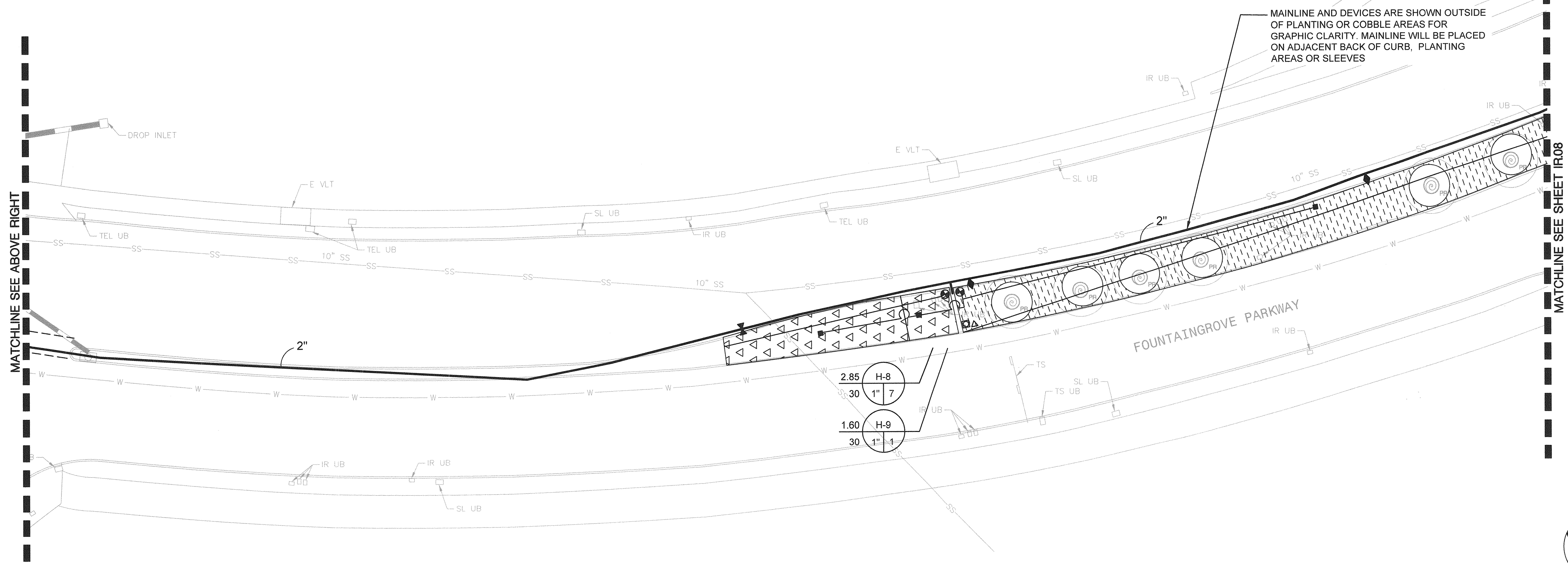
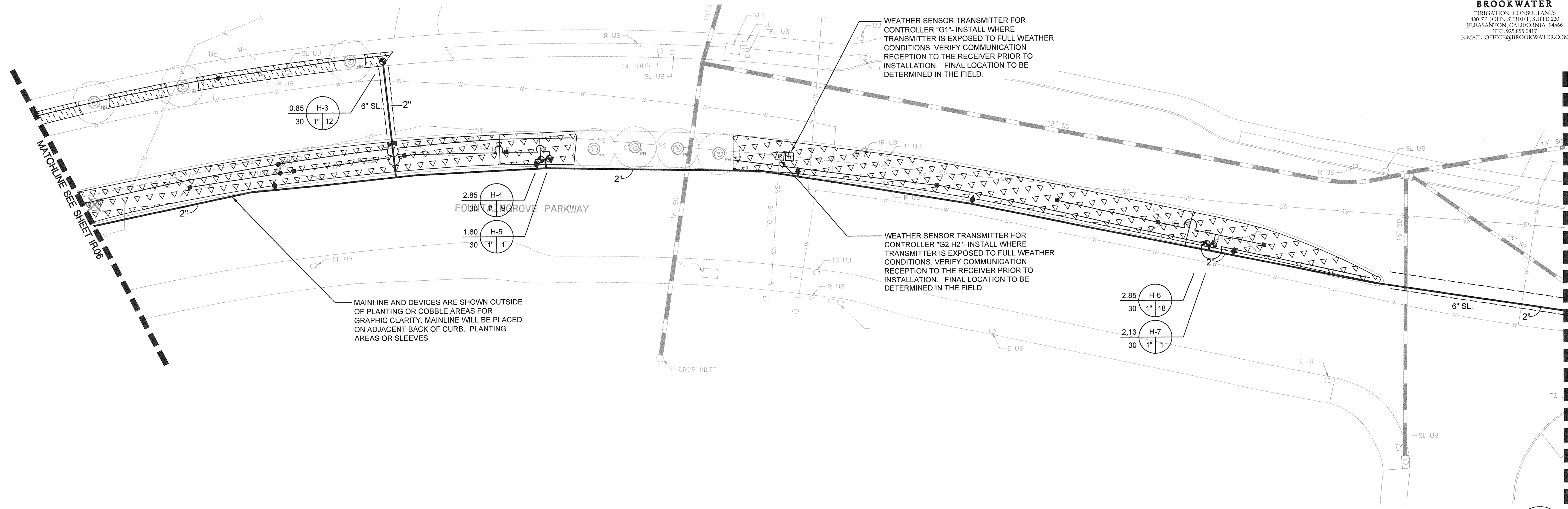
NO.	DATE	REVISION	BY

SCALE	DATE	CHK BY
AS SHOWN	05/14/2021	JL
DWN BY		JB

CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING

IRRIGATION PLAN

CONTRACT NO. CO2300
 SHEET 76 OF 139
 FILE NO. 2020-0011

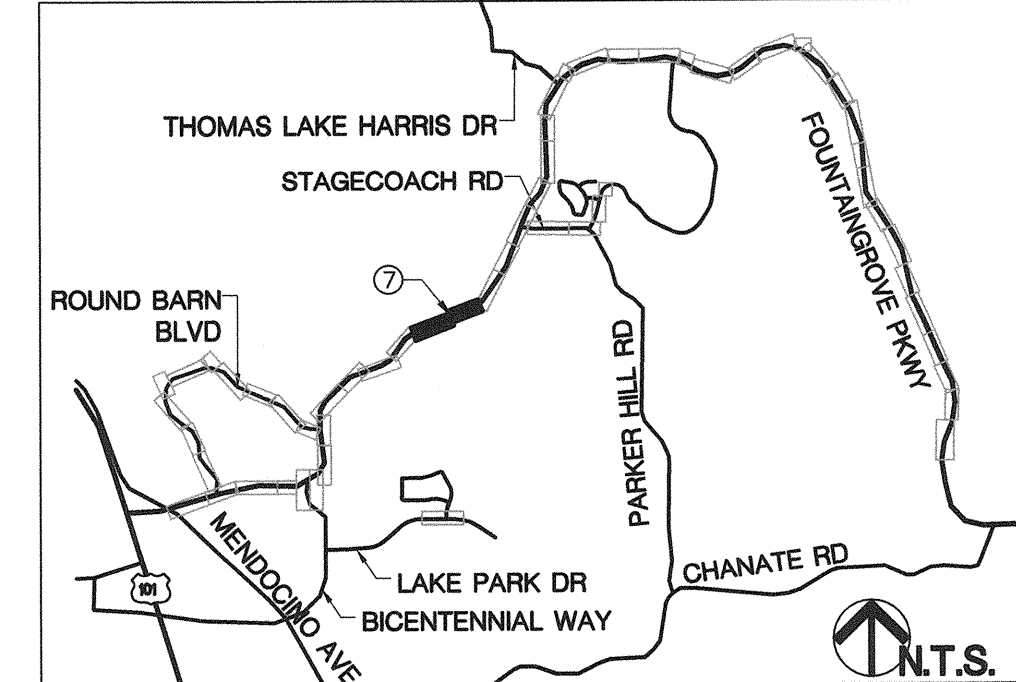


LATERAL LINE SIZING CHART

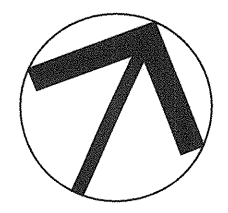
SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1' MINIMUM.

KEY MAP



**FOR IRRIGATION LEGEND AND NOTES
 SEE SHEET 64**

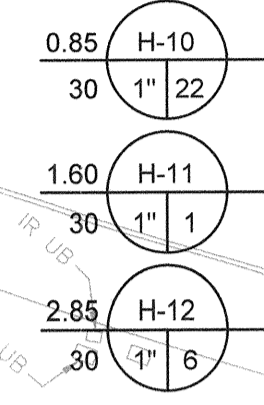
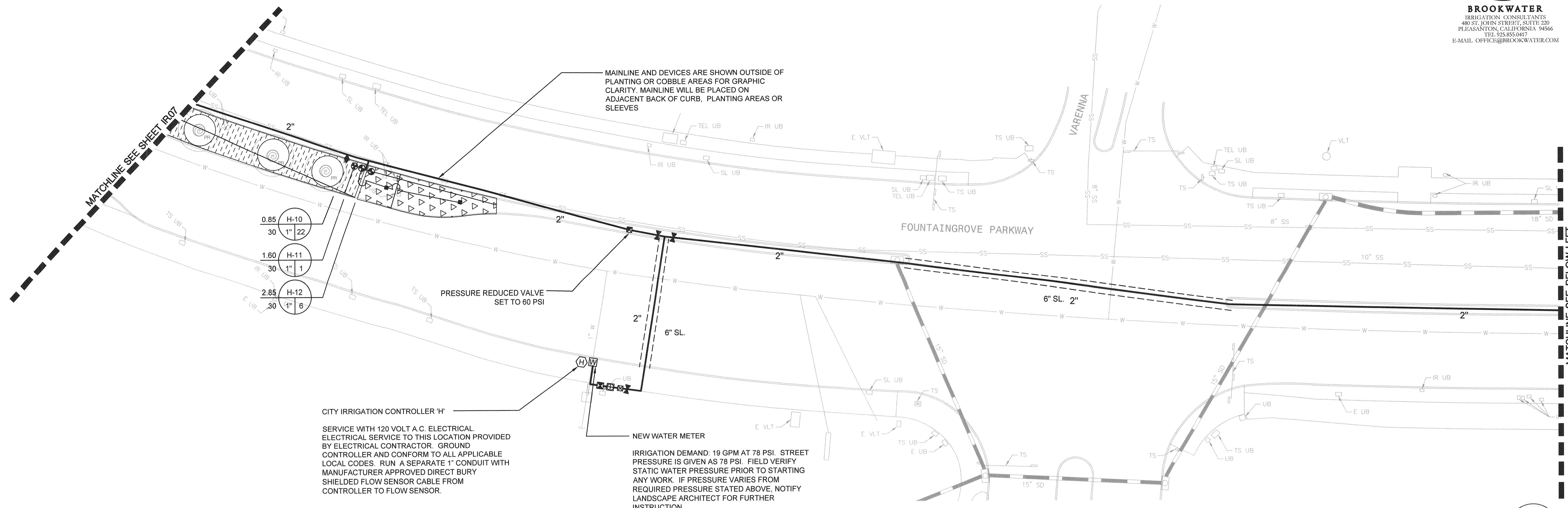


IR.07

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

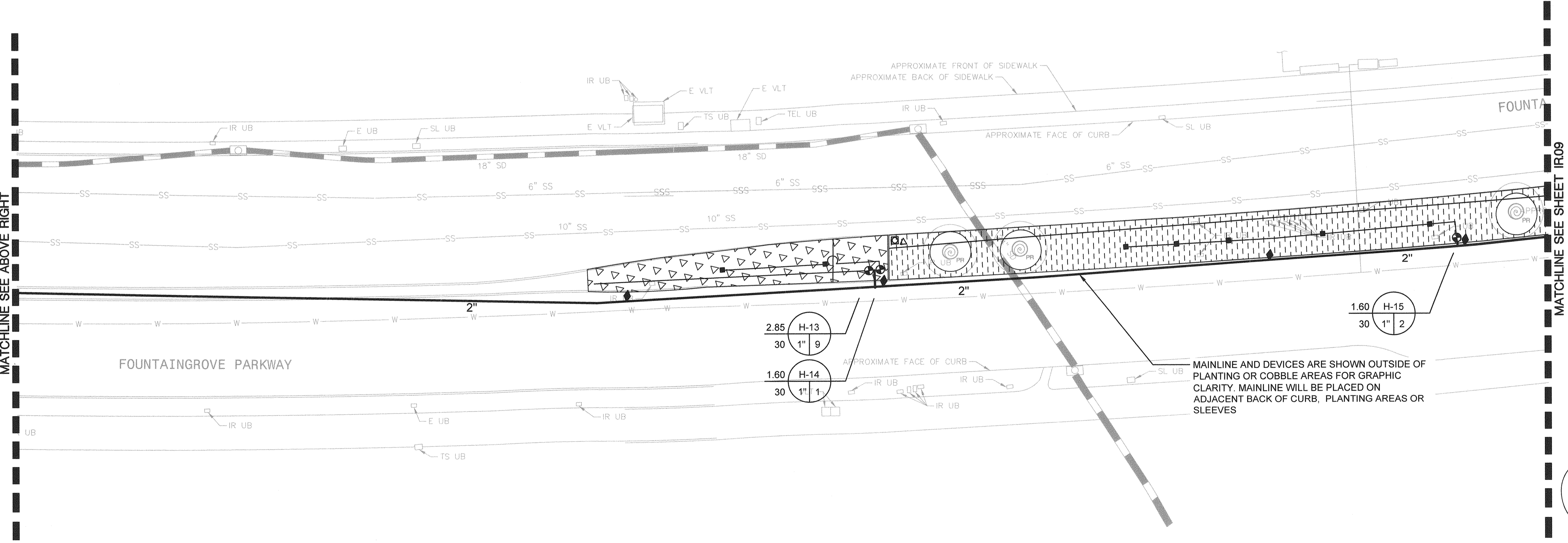
CITY OF SANTA ROSA	CONTRACT NO. CO2300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 77 OF 139
IRRIGATION PLAN	FILE NO. 2020-0011



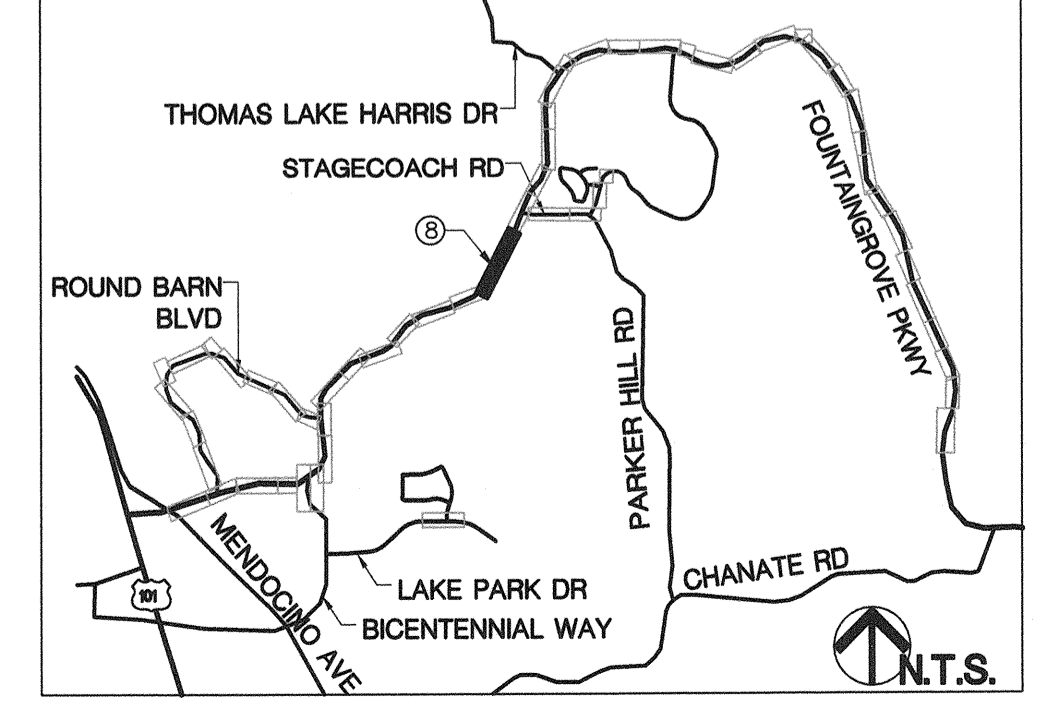
LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.



KEY MAP



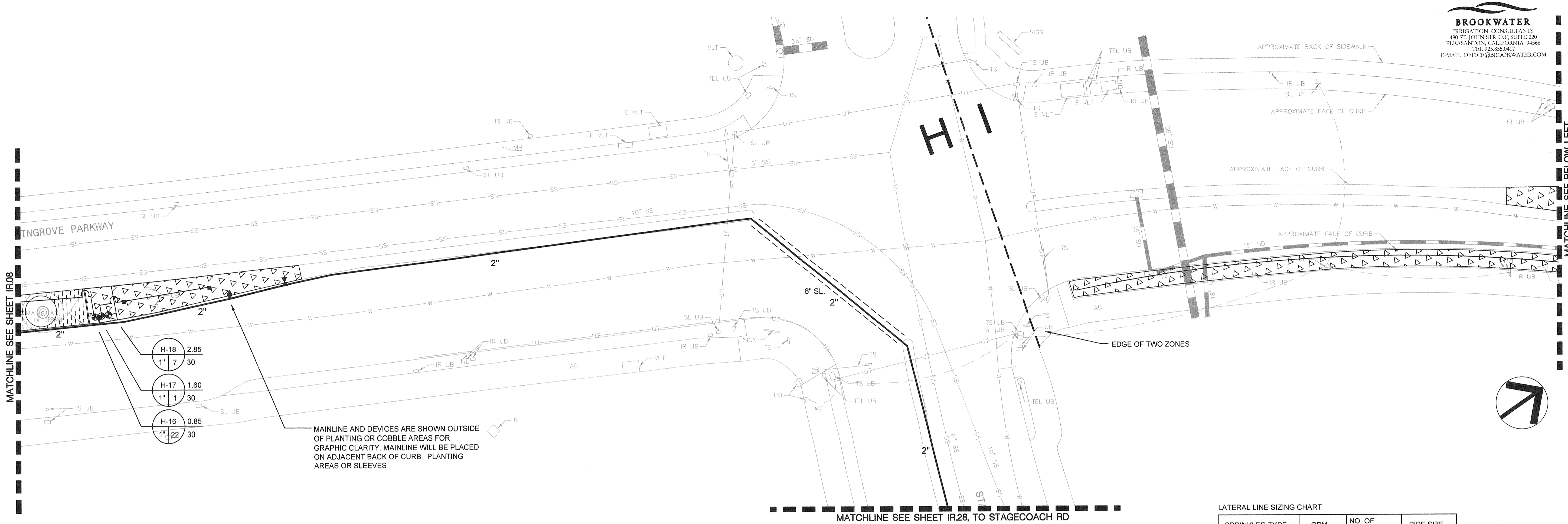
IR.08

I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

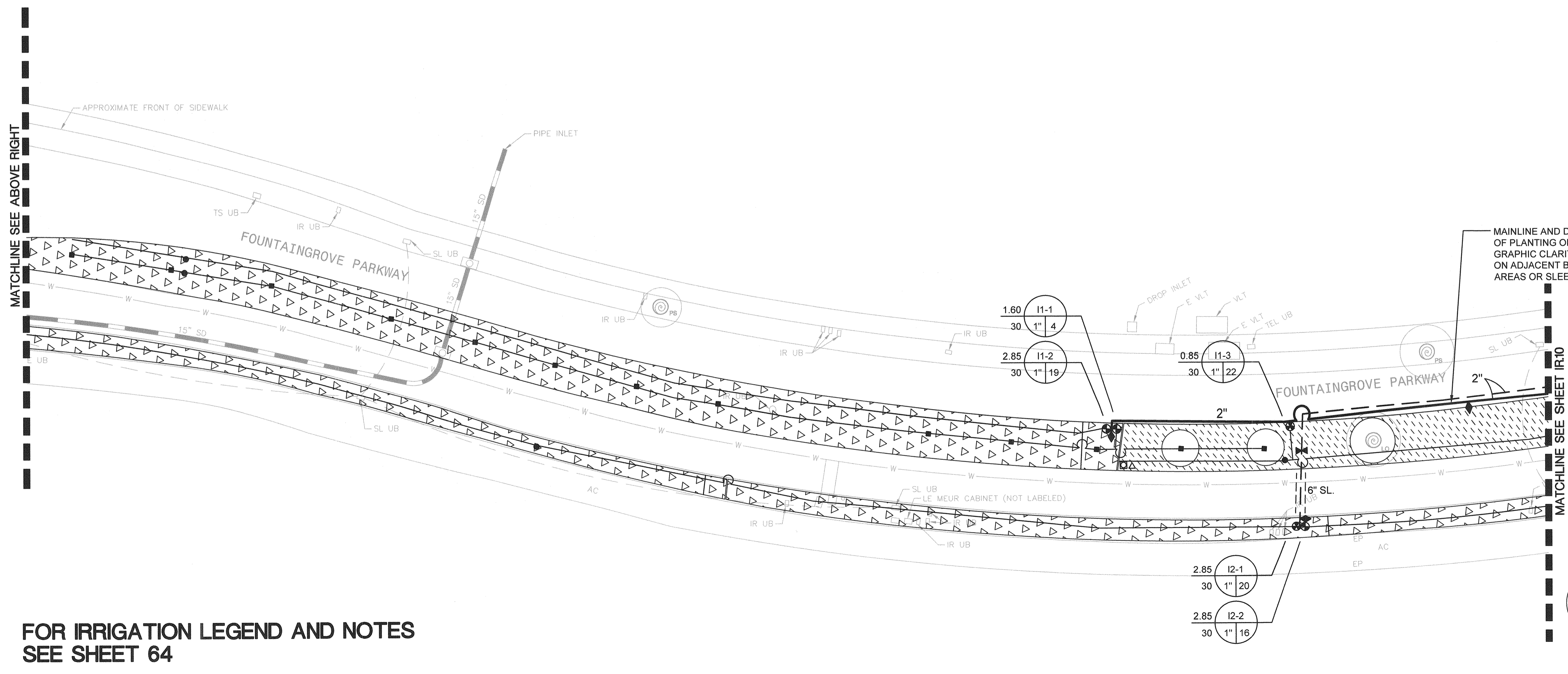
CITY OF SANTA ROSA	CONTRACT NO. CO2300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 78 OF 139
IRRIGATION PLAN	FILE NO. 2020-0011



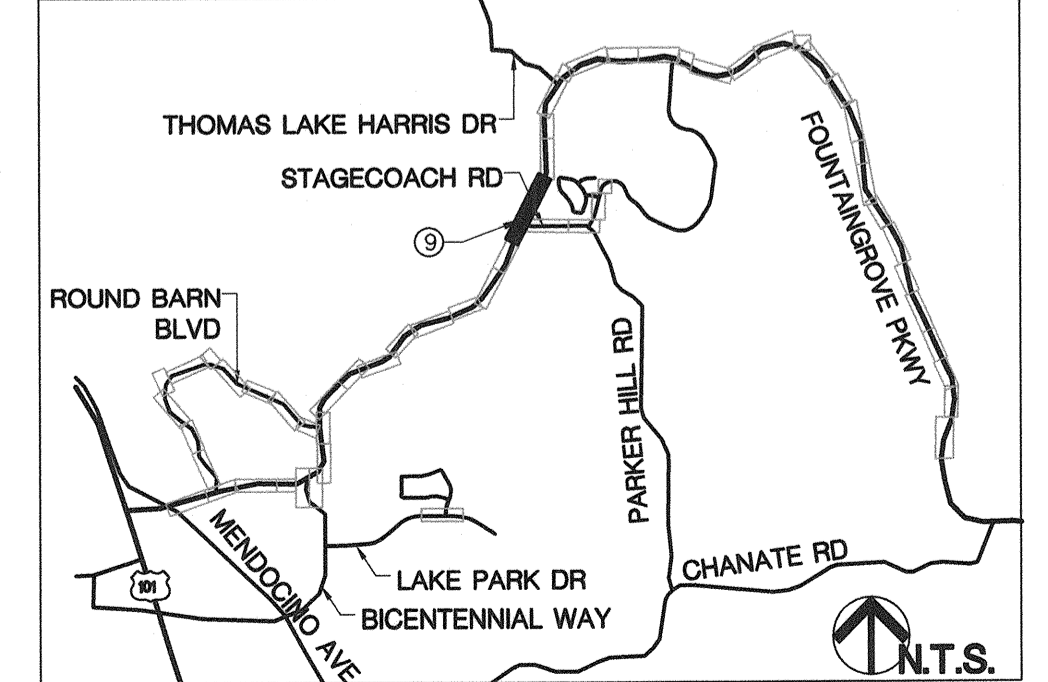
LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

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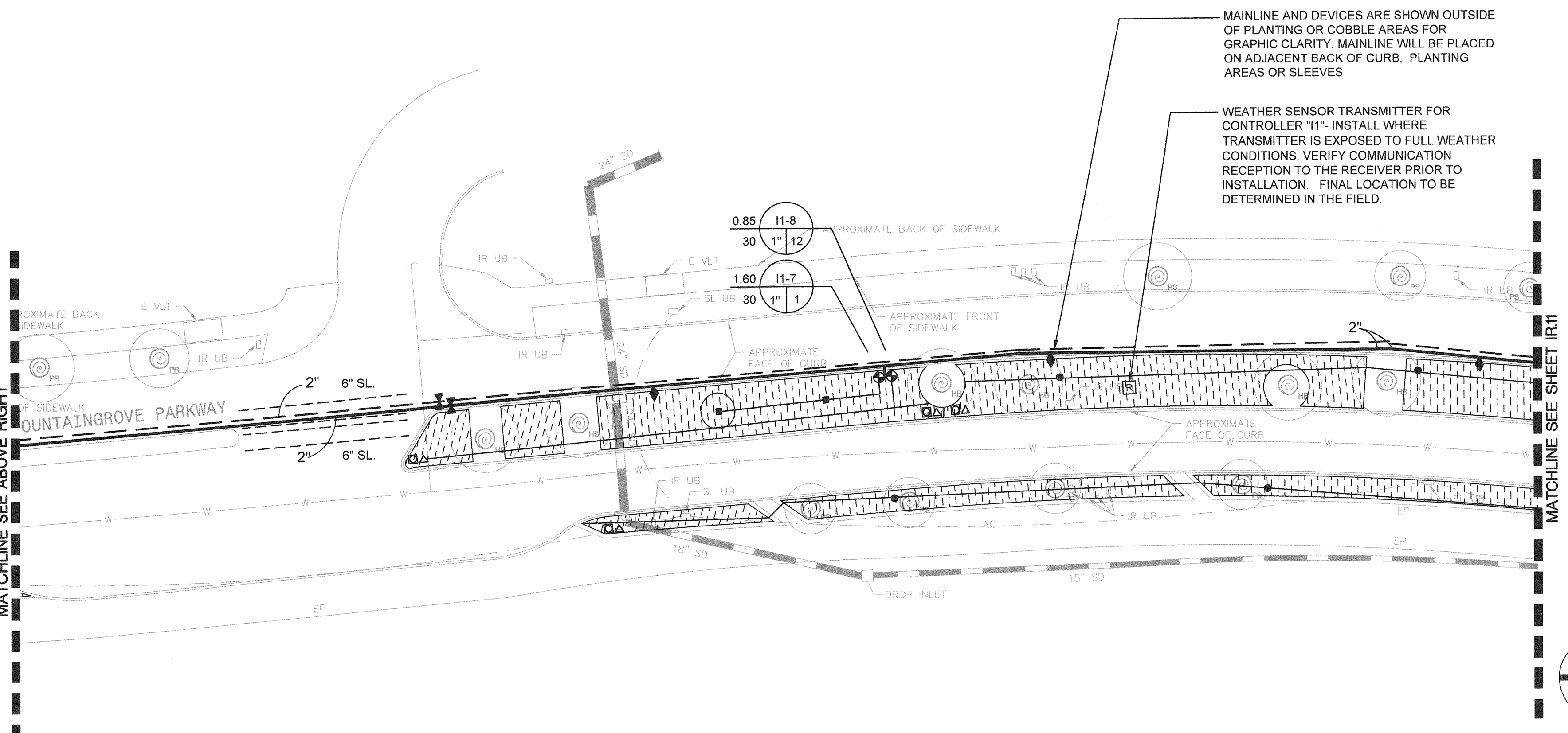
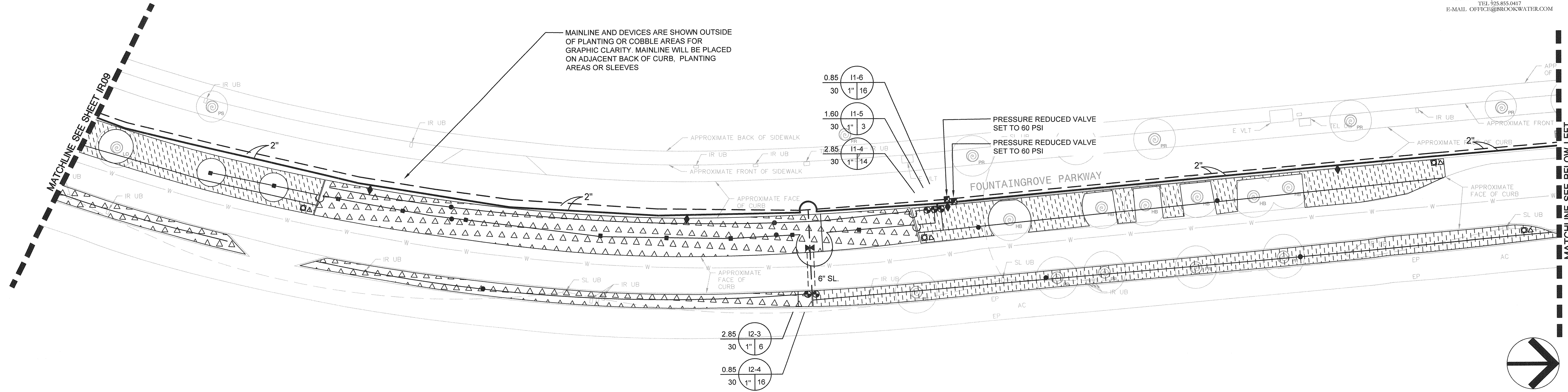
KEY MAP



FOR IRRIGATION LEGEND AND NOTES SEE SHEET 64

I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN. **IR.09**

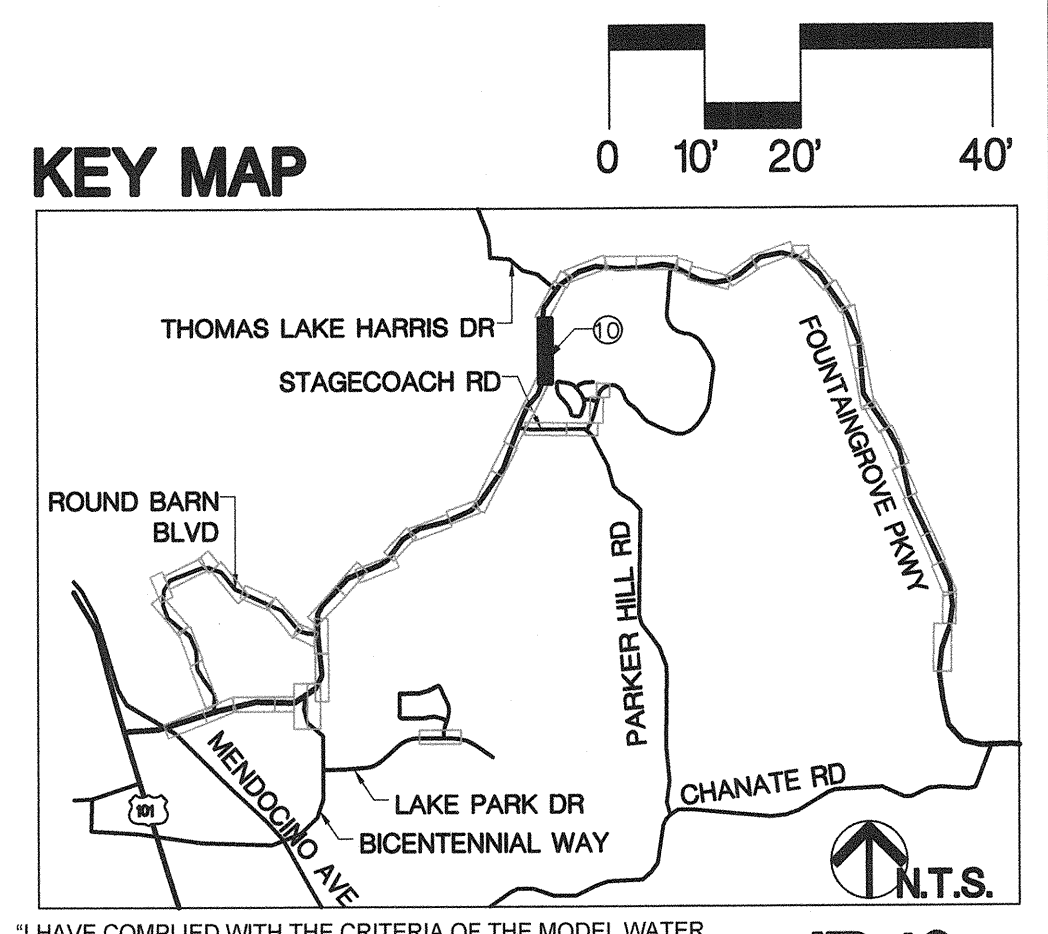
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LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

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**FOR IRRIGATION LEGEND AND NOTES
SEE SHEET 64**

NO.	DATE	REVISION	BY

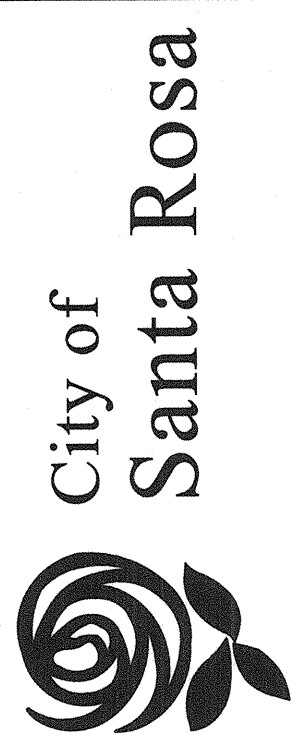
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DWN BY: JB		

CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING

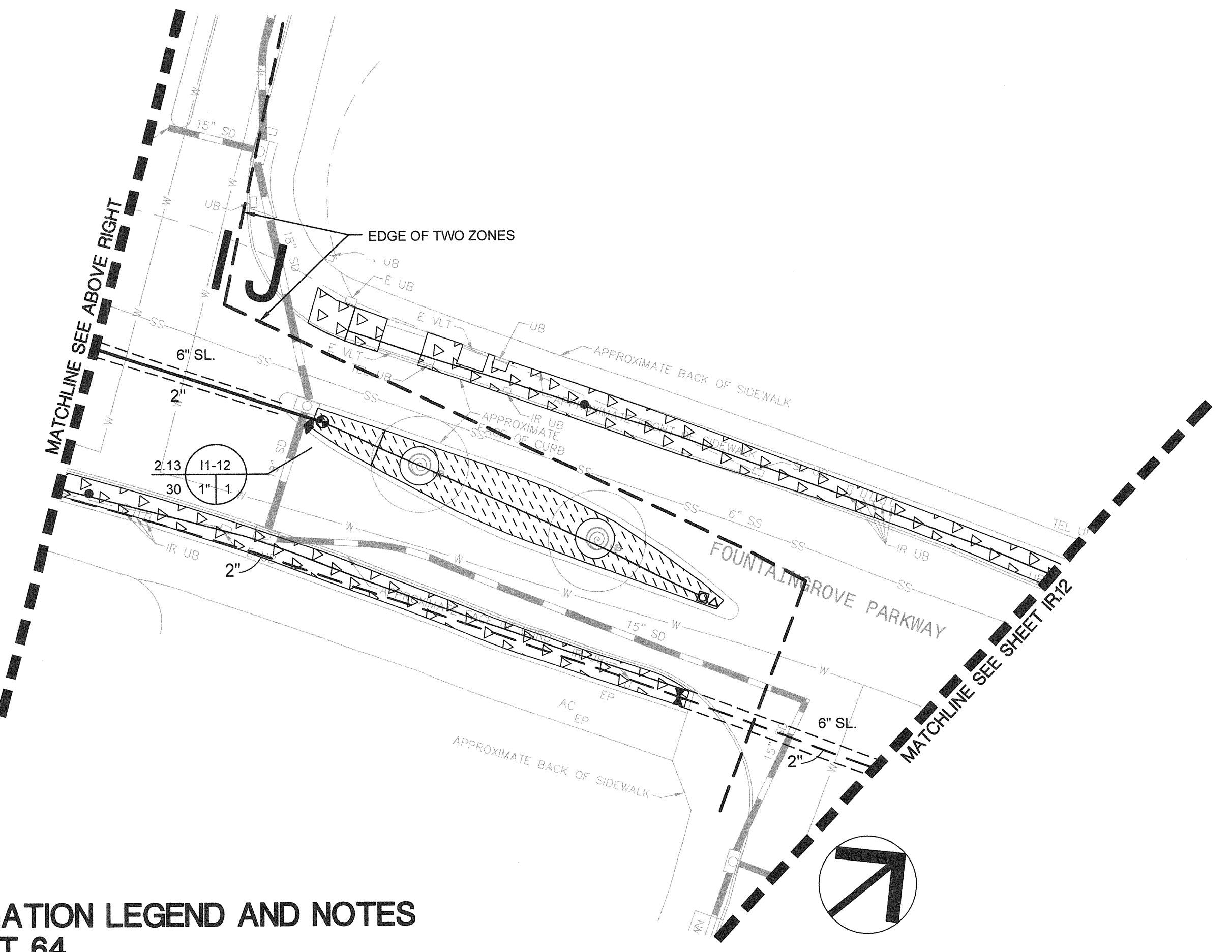
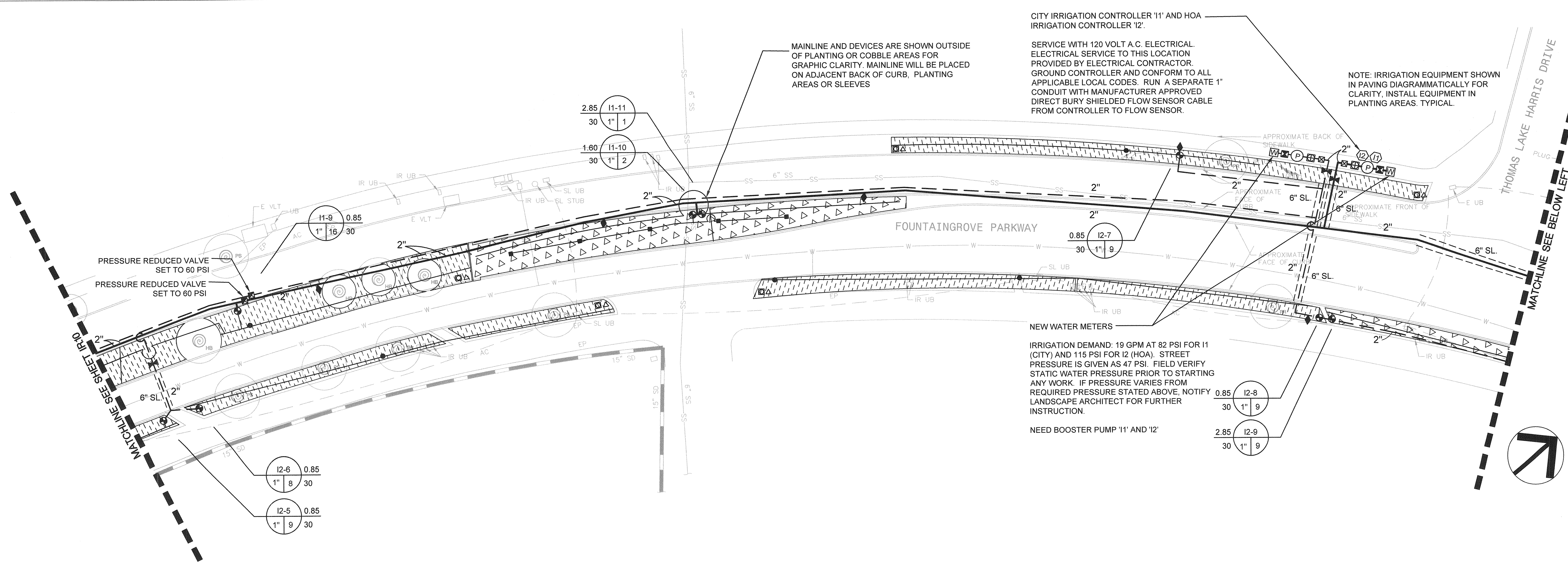
IRRIGATION PLAN

CONTRACT NO. CO2300
SHEET 79 OF 139
FILE NO. 2020-0011

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 Drawn By: Janet
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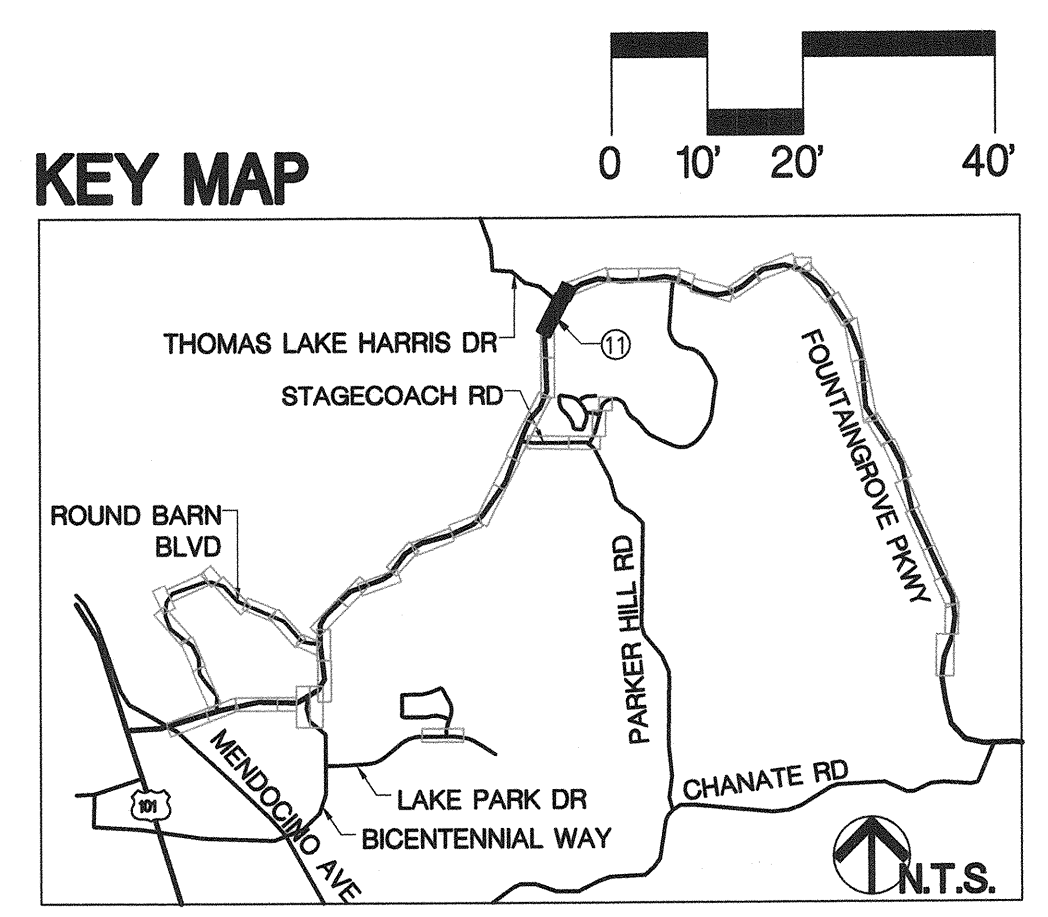
BROOKWATER
IRRIGATION CONSULTANTS
480 ST. JOHN STREET, SUITE 200
PLEASANTON, CALIFORNIA 94566
TEL: 925.855.9447
E-MAIL: OFFICE@BROOKWATER.COM



LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUZZERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUZZERS, NOT NO. OF TREES. THERE ARE TWO BUZZERS PER TREE AND ONE BUZZER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUZZER SHALL BE 1" MINIMUM.



FOR IRRIGATION LEGEND AND NOTES
SEE SHEET 64

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

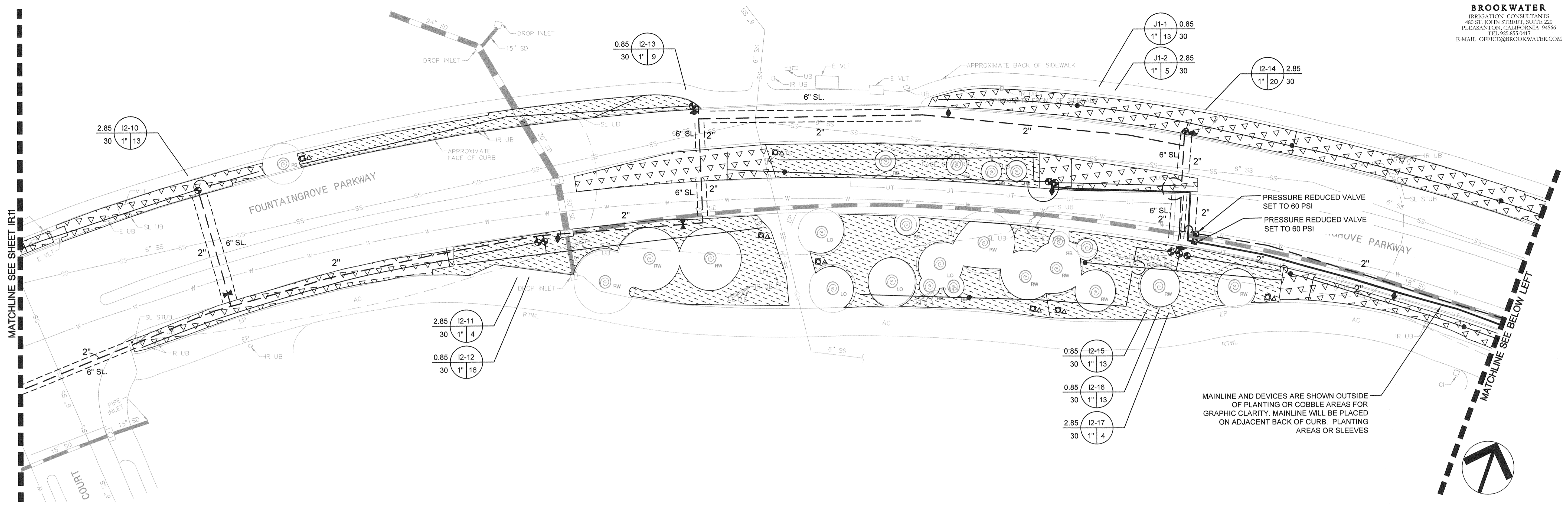
CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING
IRRIGATION PLAN
CONTRACT NO. CO2300
SHEET 80 OF 139
FILE NO. 2020-0011

File Path: C:\Client Files\California Projects\Santa Rosa Fire Damaged Roadway Landscaping\17062_SHEETS\A.dwg Plot Date: 5/14/21 Saved By: Janet
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NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

CITY OF SANTA ROSA	FIRE DAMAGED ROADWAY LANDSCAPING
IRRIGATION PLAN	
CONTRACT NO. CO2300	SHEET 81 OF 139
FILE NO. 2020-0011	

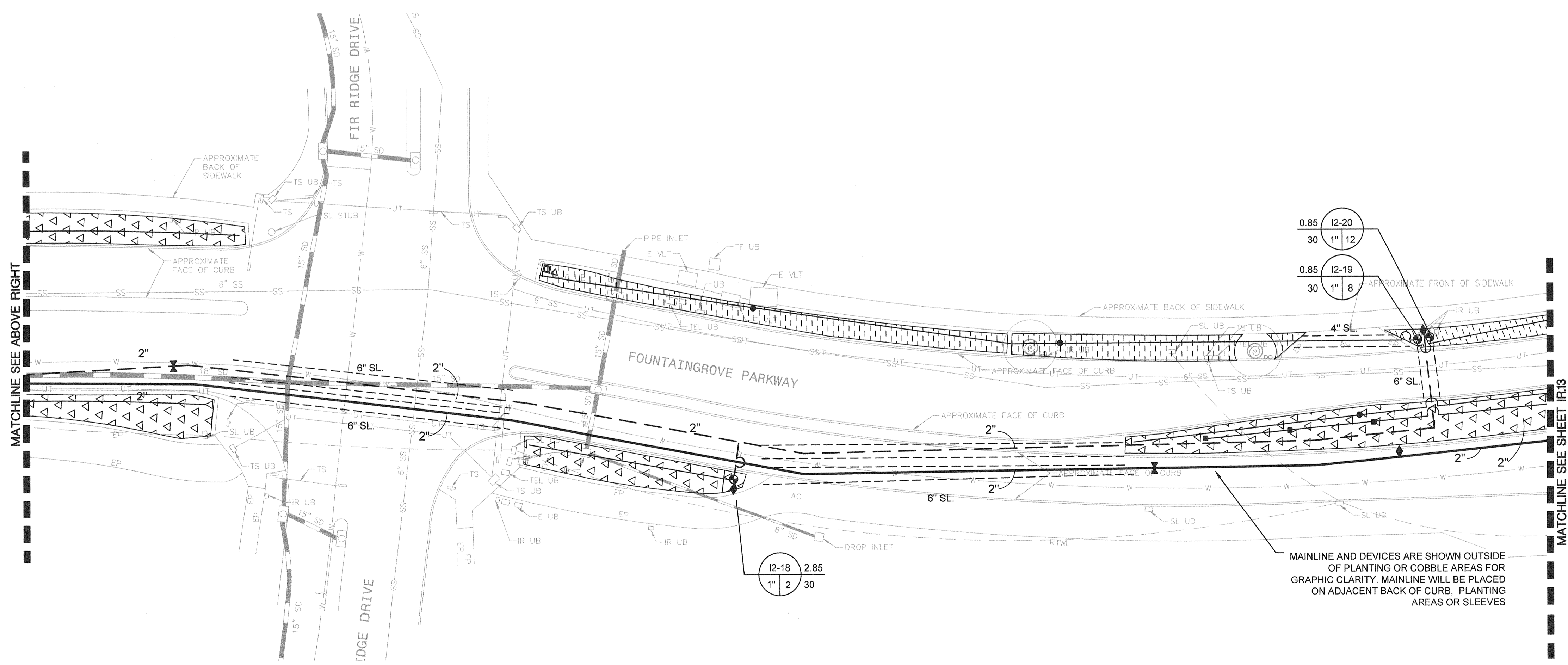


MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES

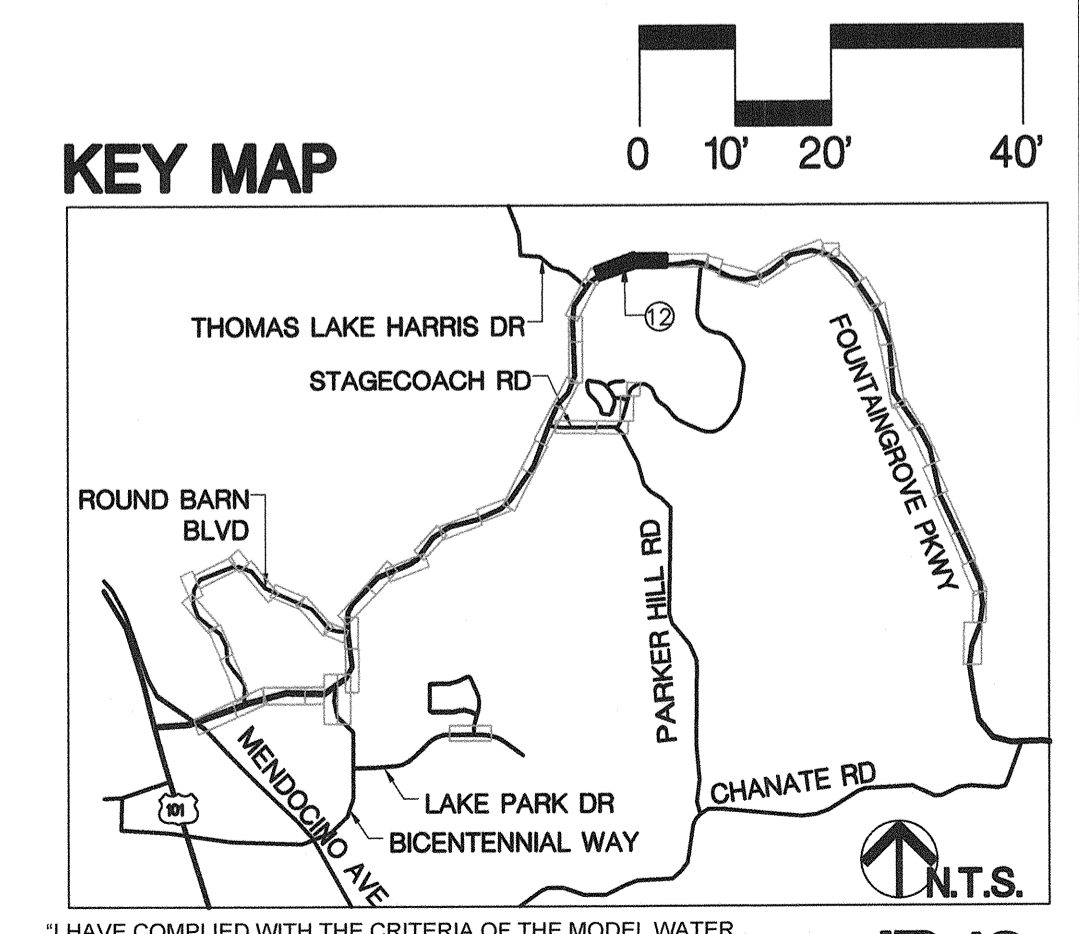
LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
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	10.25-20		1 1/4"

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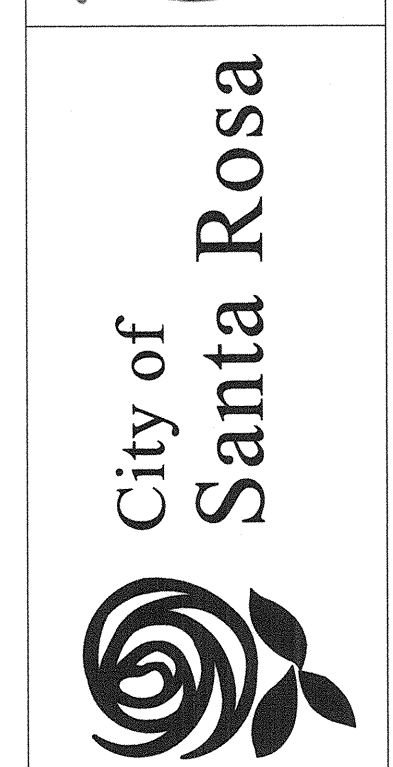


MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES



FOR IRRIGATION LEGEND AND NOTES SEE SHEET 64

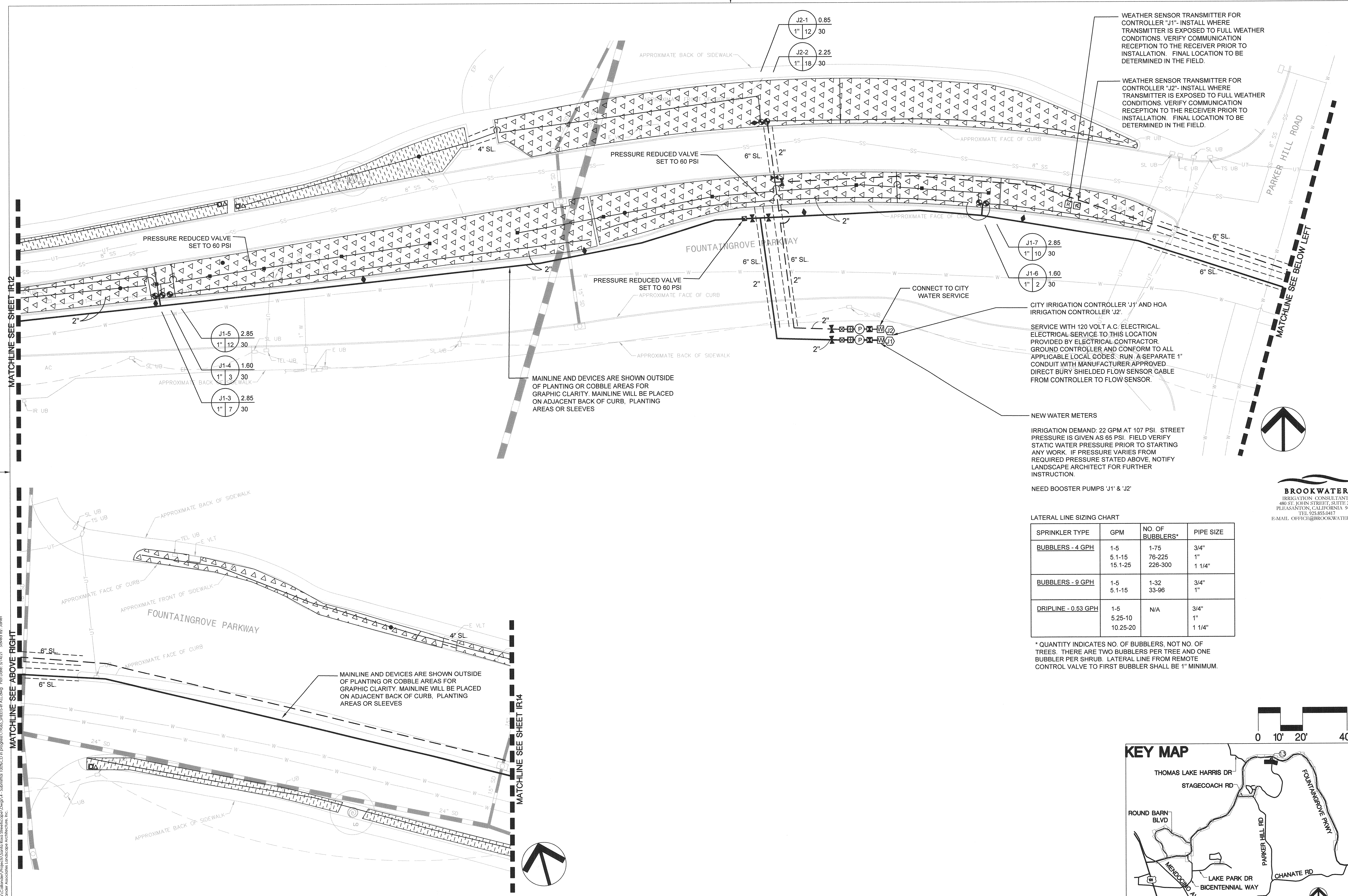
Brookwater, S. Cheryl (City of Santa Rosa) (Project) Santa Rosa Streetscape Design - 4 - Submittal (08/20/20) in progress (1/16/20) 1/16/20 5/14/21 - Scaled By: Janet Luerrs
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NO.	DATE	REVISION	BY

SCALE	DATE	CHK BY	NO.
AS SHOWN	05/14/2021	JL	
DWN BY		JB	

CITY OF SANTA ROSA	CONTRACT NO. CO2300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 82 OF 139
IRRIGATION PLAN	FILE NO. 2020-0011



WEATHER SENSOR TRANSMITTER FOR CONTROLLER "J1"- INSTALL WHERE TRANSMITTER IS EXPOSED TO FULL WEATHER CONDITIONS. VERIFY COMMUNICATION RECEPTION TO THE RECEIVER PRIOR TO INSTALLATION. FINAL LOCATION TO BE DETERMINED IN THE FIELD.

WEATHER SENSOR TRANSMITTER FOR CONTROLLER "J2"- INSTALL WHERE TRANSMITTER IS EXPOSED TO FULL WEATHER CONDITIONS. VERIFY COMMUNICATION RECEPTION TO THE RECEIVER PRIOR TO INSTALLATION. FINAL LOCATION TO BE DETERMINED IN THE FIELD.

CITY IRRIGATION CONTROLLER "J1" AND HOA IRRIGATION CONTROLLER "J2".

SERVICE WITH 120 VOLT A.C. ELECTRICAL. ELECTRICAL SERVICE TO THIS LOCATION PROVIDED BY ELECTRICAL CONTRACTOR. GROUND CONTROLLER AND CONFORM TO ALL APPLICABLE LOCAL CODES. RUN A SEPARATE 1" CONDUIT WITH MANUFACTURER APPROVED DIRECT BURY SHIELDED FLOW SENSOR CABLE FROM CONTROLLER TO FLOW SENSOR.

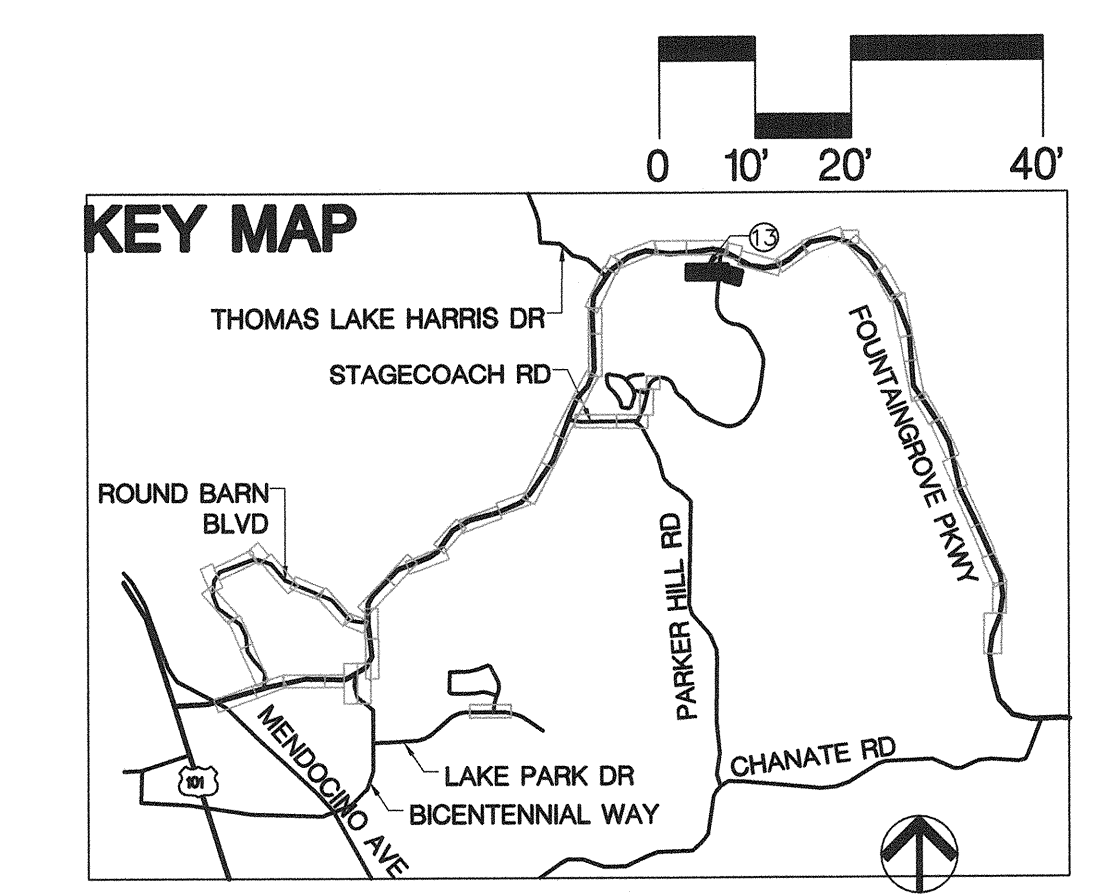
IRRIGATION DEMAND: 22 GPM AT 107 PSI. STREET PRESSURE IS GIVEN AS 65 PSI. FIELD VERIFY STATIC WATER PRESSURE PRIOR TO STARTING ANY WORK. IF PRESSURE VARIES FROM REQUIRED PRESSURE STATED ABOVE, NOTIFY LANDSCAPE ARCHITECT FOR FURTHER INSTRUCTION.

NEED BOOSTER PUMPS "J1" & "J2"

LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
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FOR IRRIGATION LEGEND AND NOTES SEE SHEET 64

I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

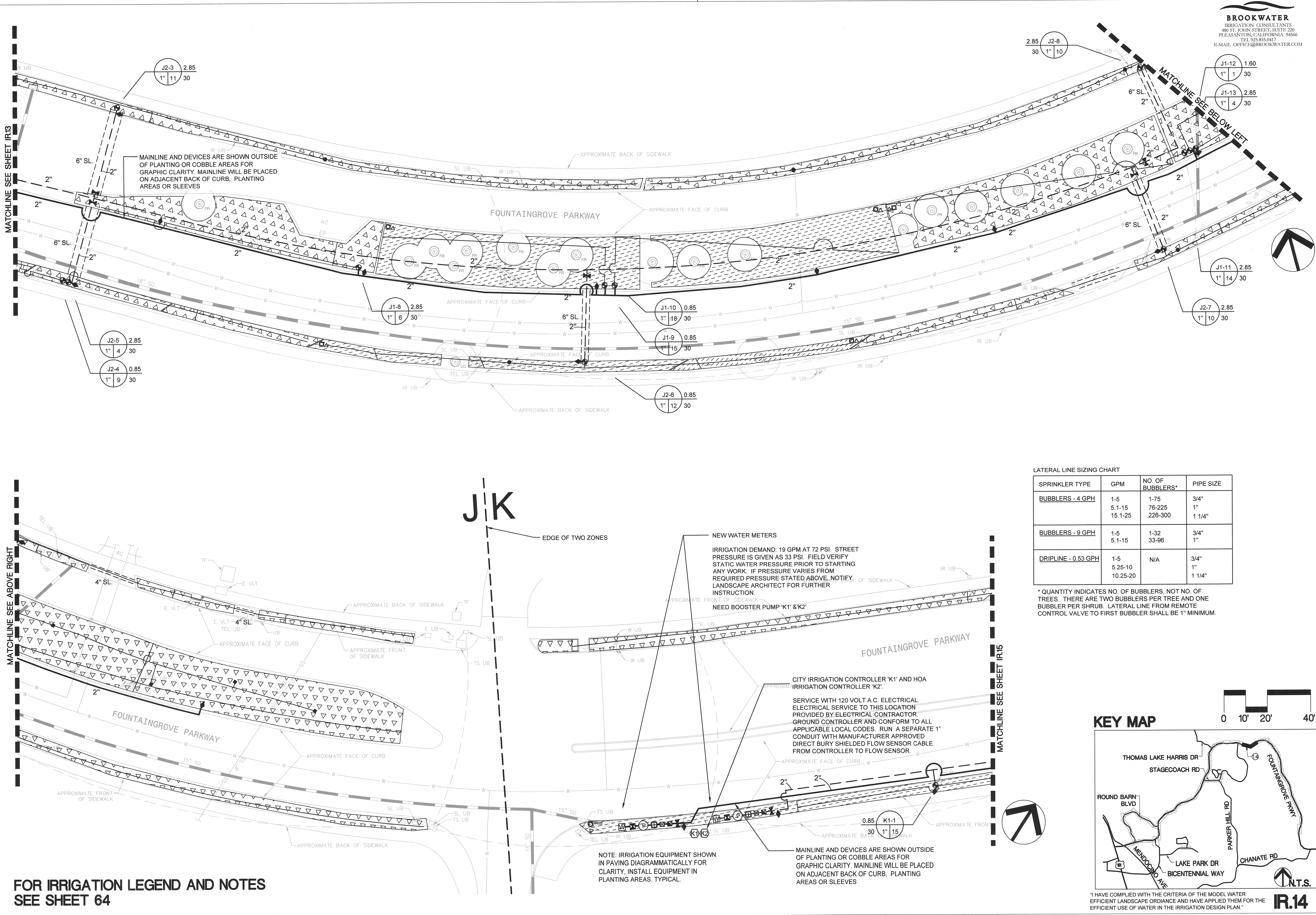
IR.13

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NO.	DATE	REVISION	BY

SCALE	DATE	CHK BY	BY
AS SHOWN	05/14/2021	JL	JL
DWN BY			

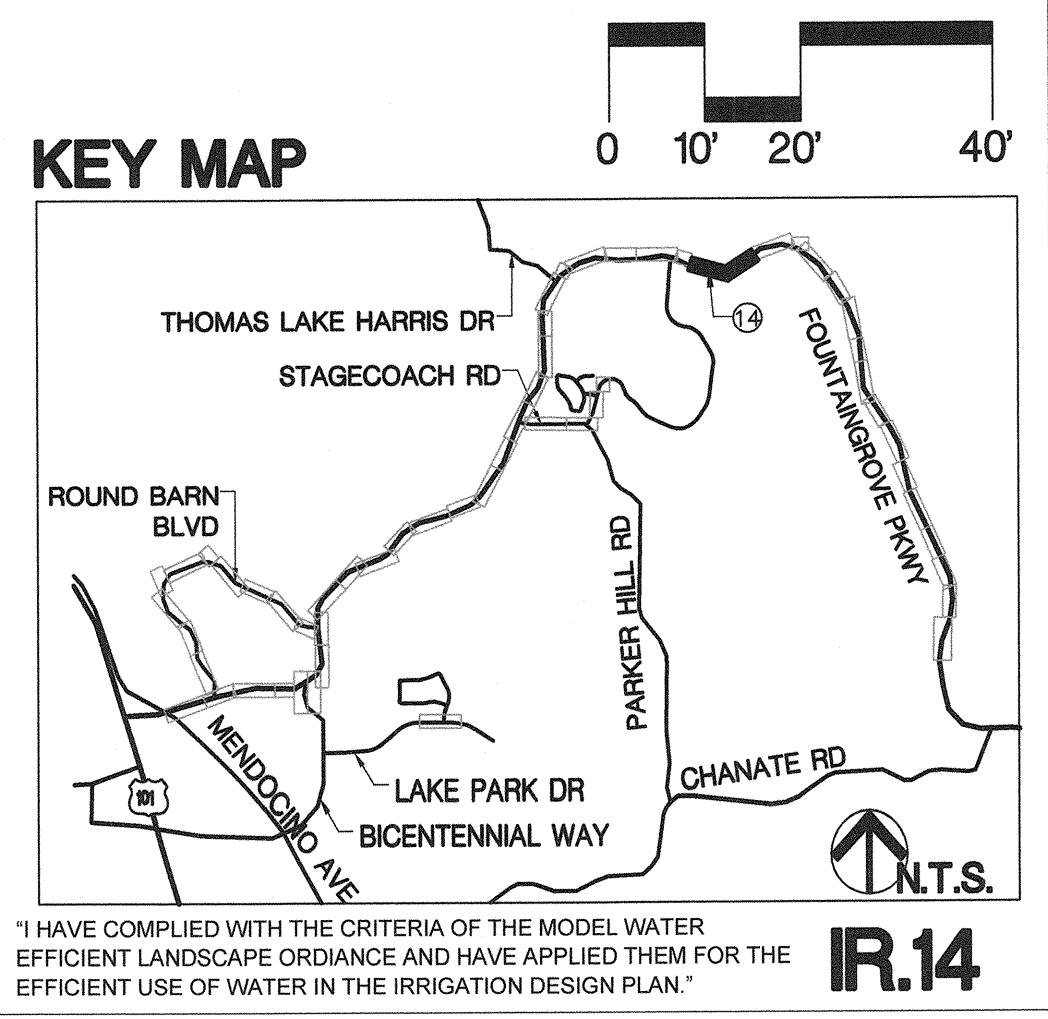
CITY OF SANTA ROSA	CONTRACT NO. CO2300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 83 OF 139
IRRIGATION PLAN	FILE NO. 2020-0011



LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
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* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.



FOR IRRIGATION LEGEND AND NOTES SEE SHEET 64

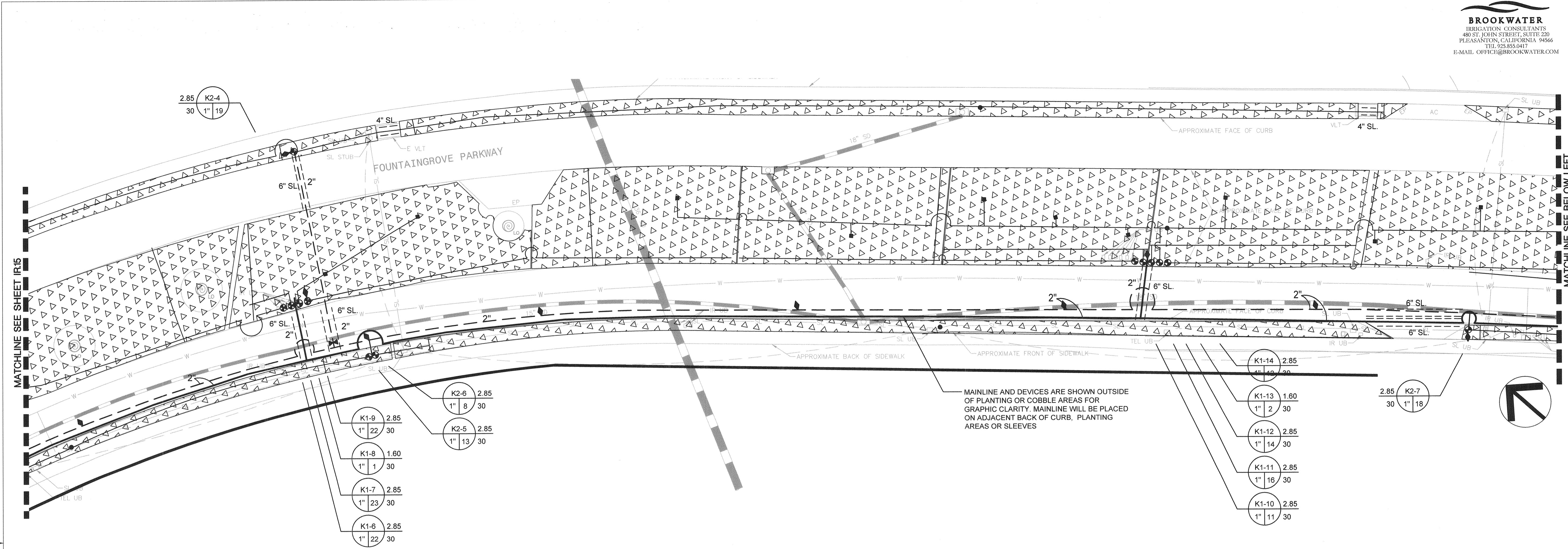
NOTE: IRRIGATION EQUIPMENT SHOWN IN PAVING DIAGRAMMATICALLY FOR CLARITY, INSTALL EQUIPMENT IN PLANTING AREAS, TYPICAL.

MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES

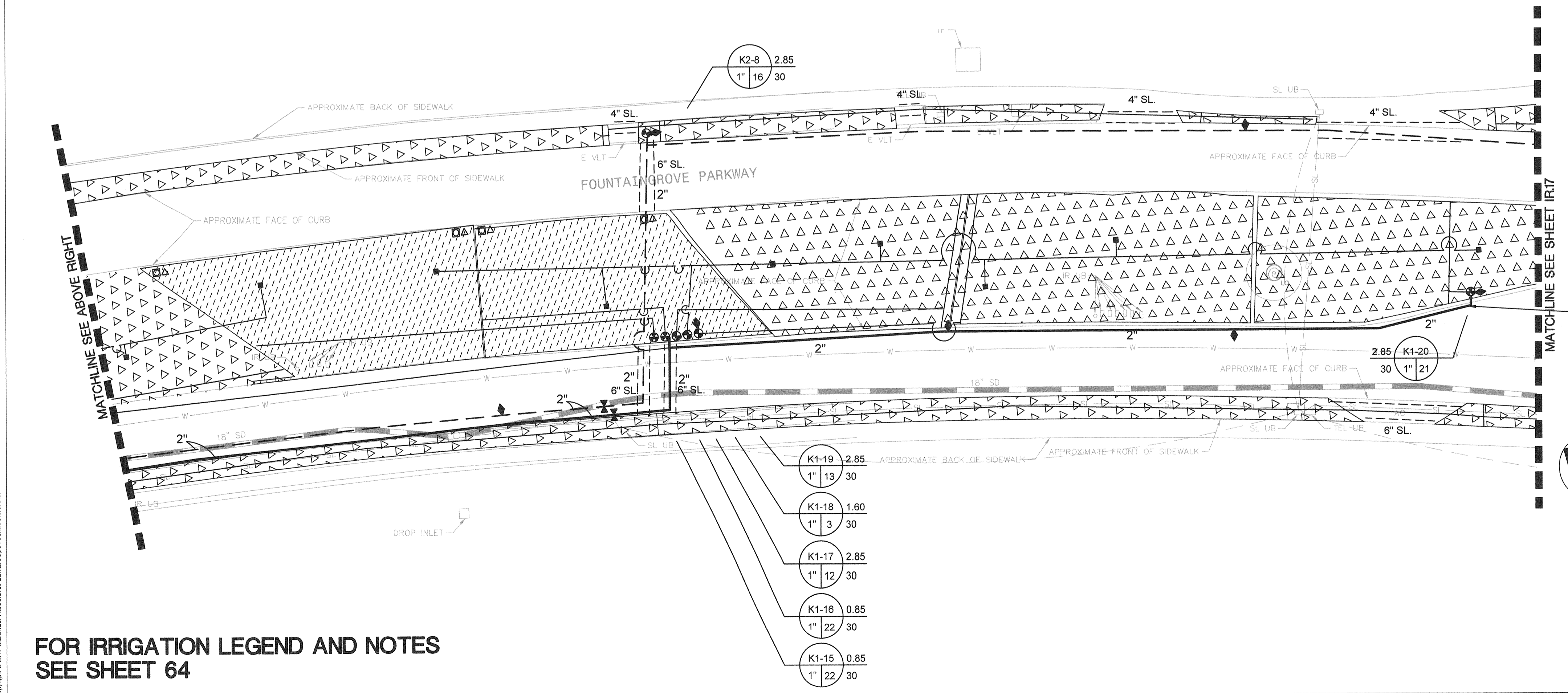
NEW WATER METERS
IRRIGATION DEMAND: 19 GPM AT 72 PSI. STREET PRESSURE IS GIVEN AS 33 PSI. FIELD VERIFY STATIC WATER PRESSURE PRIOR TO STARTING ANY WORK. IF PRESSURE VARIES FROM REQUIRED PRESSURE STATED ABOVE, NOTIFY LANDSCAPE ARCHITECT FOR FURTHER INSTRUCTION.
NEED BOOSTER PUMP 'K1' & 'K2'

CITY IRRIGATION CONTROLLER 'K1' AND HOA IRRIGATION CONTROLLER 'K2'.
SERVICE WITH 120 VOLT A.C. ELECTRICAL. ELECTRICAL SERVICE TO THIS LOCATION PROVIDED BY ELECTRICAL CONTRACTOR. GROUND CONTROLLER AND CONFORM TO ALL APPLICABLE LOCAL CODES. RUN A SEPARATE 1" CONDUIT WITH MANUFACTURER APPROVED DIRECT BURY SHIELDED FLOW SENSOR CABLE FROM CONTROLLER TO FLOW SENSOR.

File Path: C:\Users\jlluehr\OneDrive\Documents\Projects\Santa Rosa\Irrigation\IR14.dwg Plot Date: 5/14/21 Saved By: Janet Luehr's Copyright © 2019, Cadanair Associates Landscape Architecture, Inc.



MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES



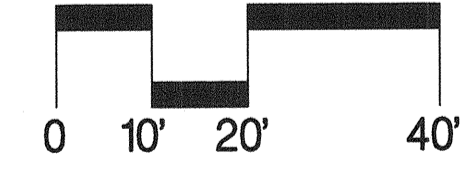
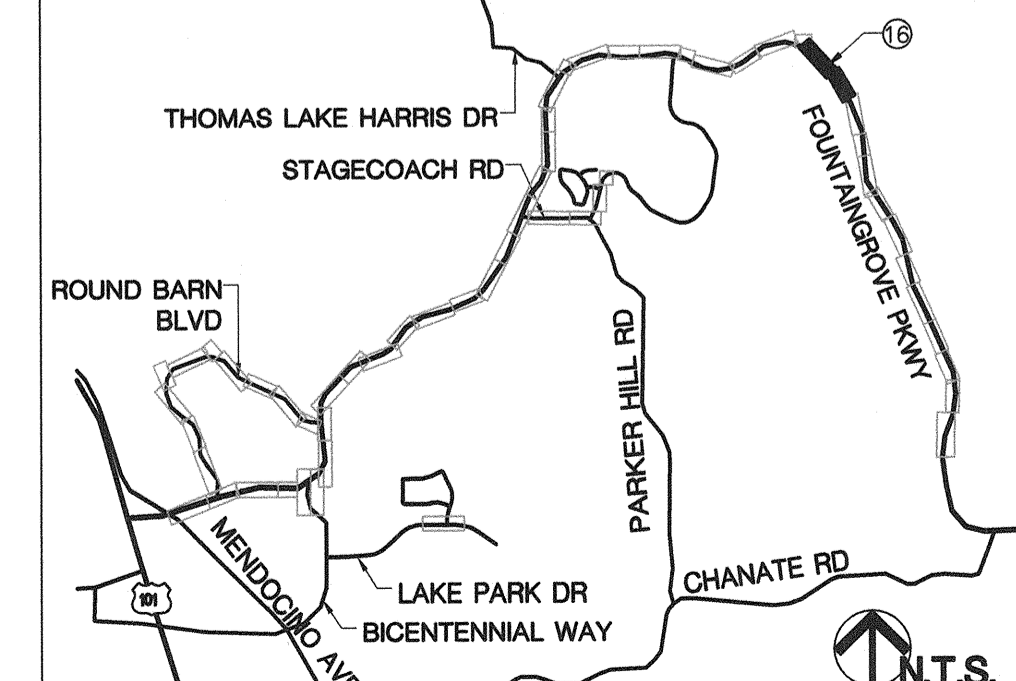
LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.

MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES

KEY MAP



FOR IRRIGATION LEGEND AND NOTES SEE SHEET 64

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

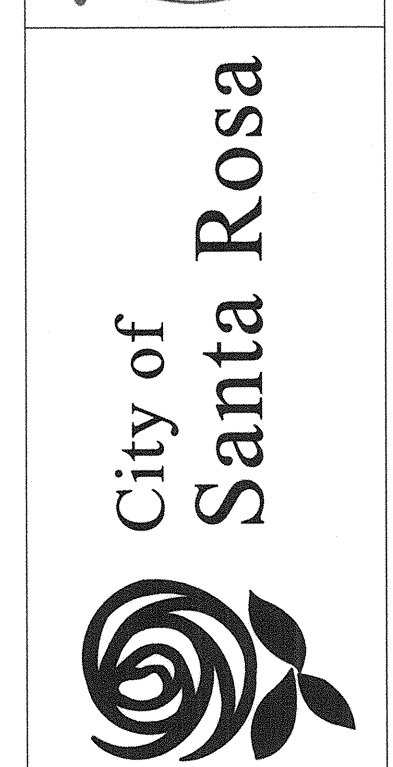
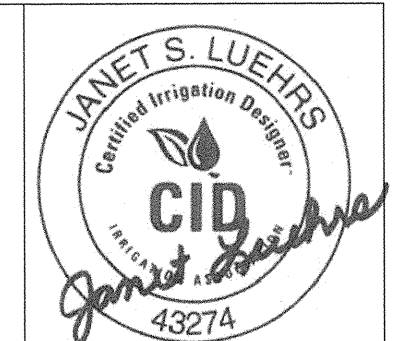
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING

IRRIGATION PLAN

CONTRACT NO. CO2300
 SHEET 85 OF 139
 FILE NO. 2020-0011

IR.16

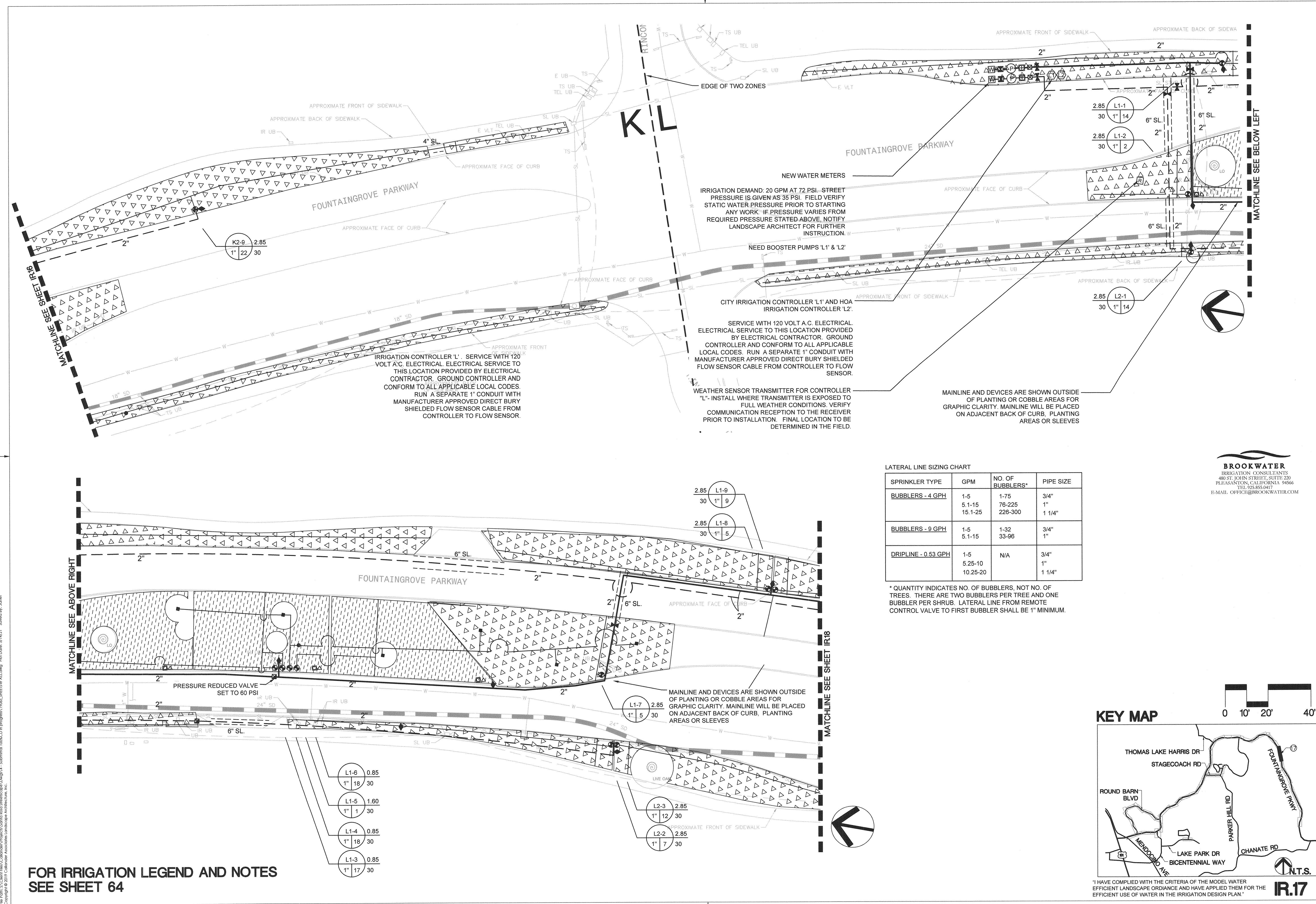
File Path: C:\Users\jlanet\OneDrive\Documents\Projects\2020\0011\IR.16\IR.16.dwg Plot Date: 5/14/21 Screened by: Janet
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NO.	DATE	REVISION	BY

SCALE	DATE	CHK BY	JL
AS SHOWN	05/14/2021	JB	JL

CITY OF SANTA ROSA	CONTRACT NO. CO2300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 86 OF 139
IRRIGATION PLAN	FILE NO. 2020-0011



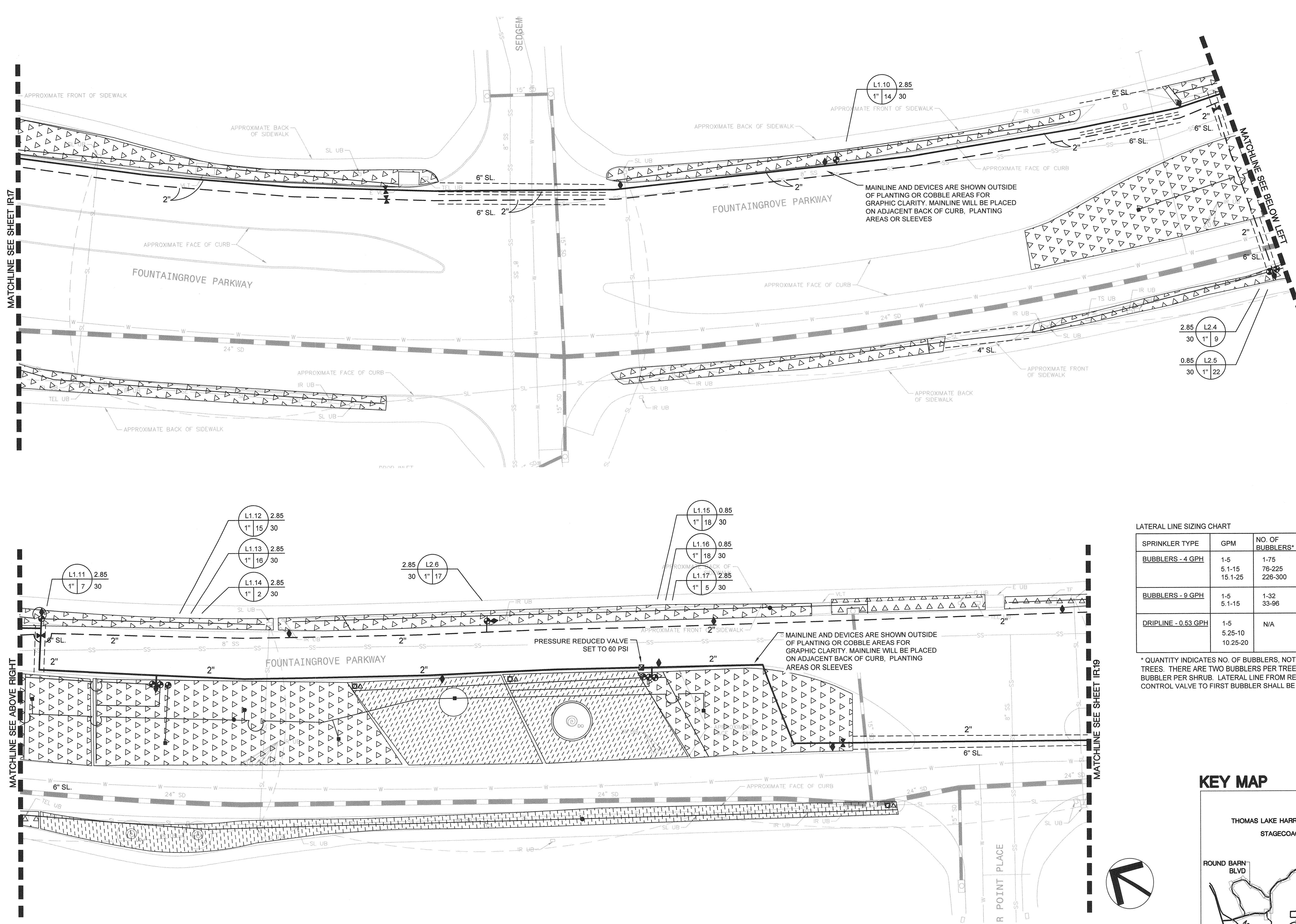
BROOKWATER
IRRIGATION CONSULTANTS
480 S. JOHN STREET, SUITE 220
PLEASANTON, CALIFORNIA 94566
TEL: 925.855.0017
E-MAIL: OFFICE@BROOKWATER.COM

File Path: C:\Client Files\California Projects\Fire Damaged Roadway Landscaping\Drawn\4 - Summary\100% CD\Program\100%_SHEETS\IR.17.dwg Plot Date: 5/14/21 Saved By: Janet
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NO.	DATE	REVISION	BY

SCALE:	DATE:	CHK BY:	JL
AS SHOWN	05/14/2021		
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JB			

CITY OF SANTA ROSA	CONTRACT NO.
FIRE DAMAGED ROADWAY LANDSCAPING	CO2300
IRRIGATION PLAN	SHEET 87 OF 139
	FILE NO. 2020-0011



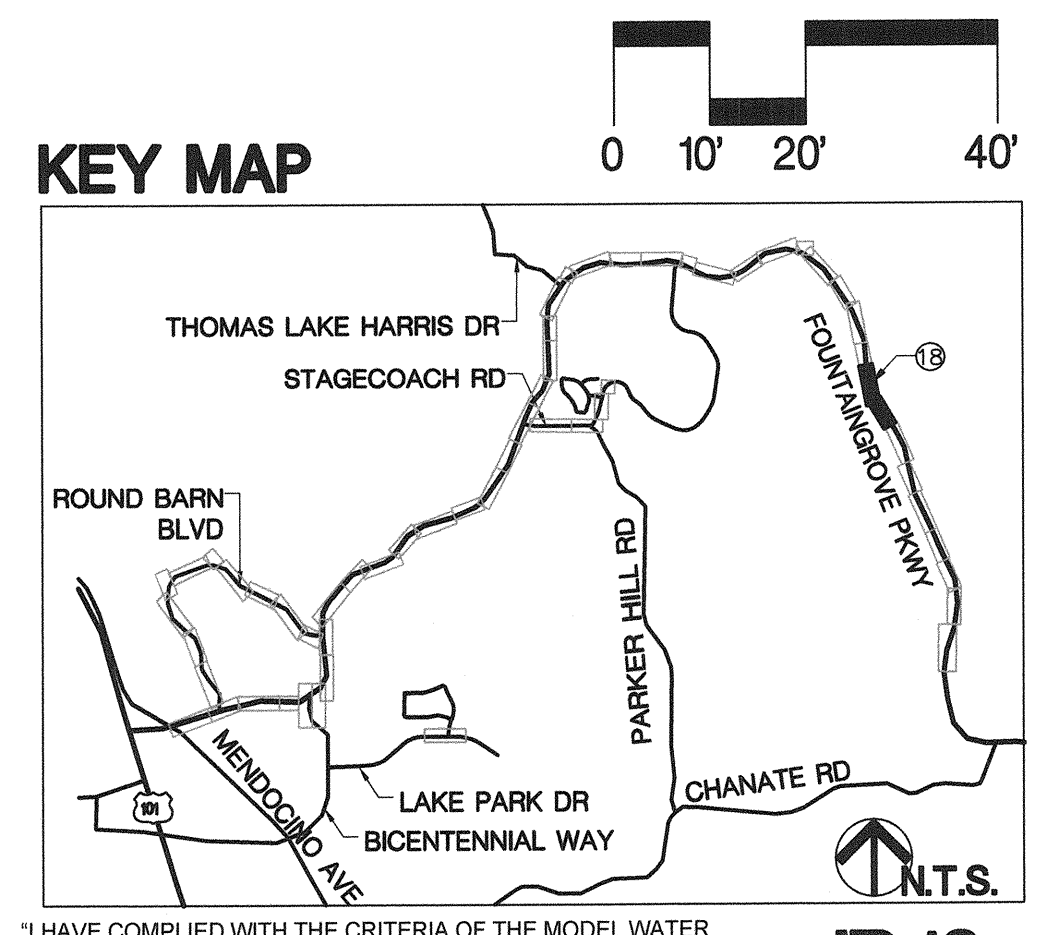
MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES

MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES

LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.



FOR IRRIGATION LEGEND AND NOTES SEE SHEET 64

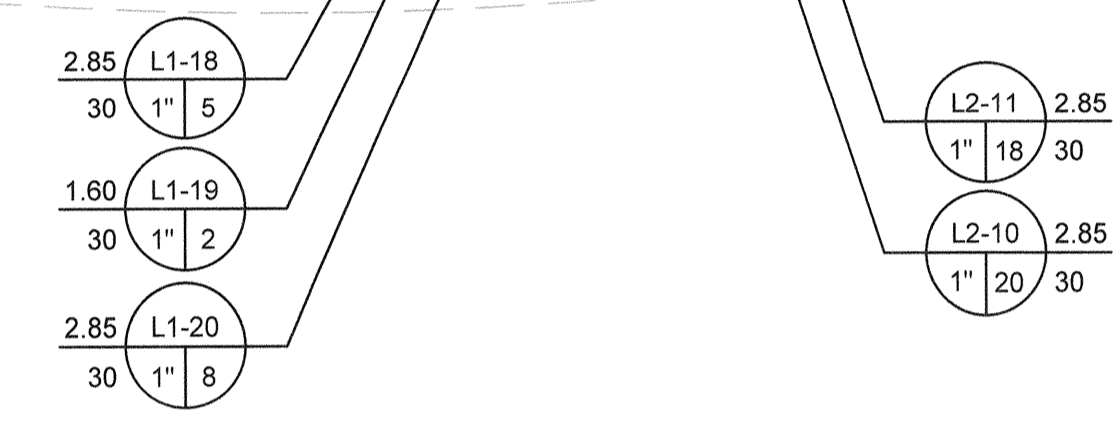
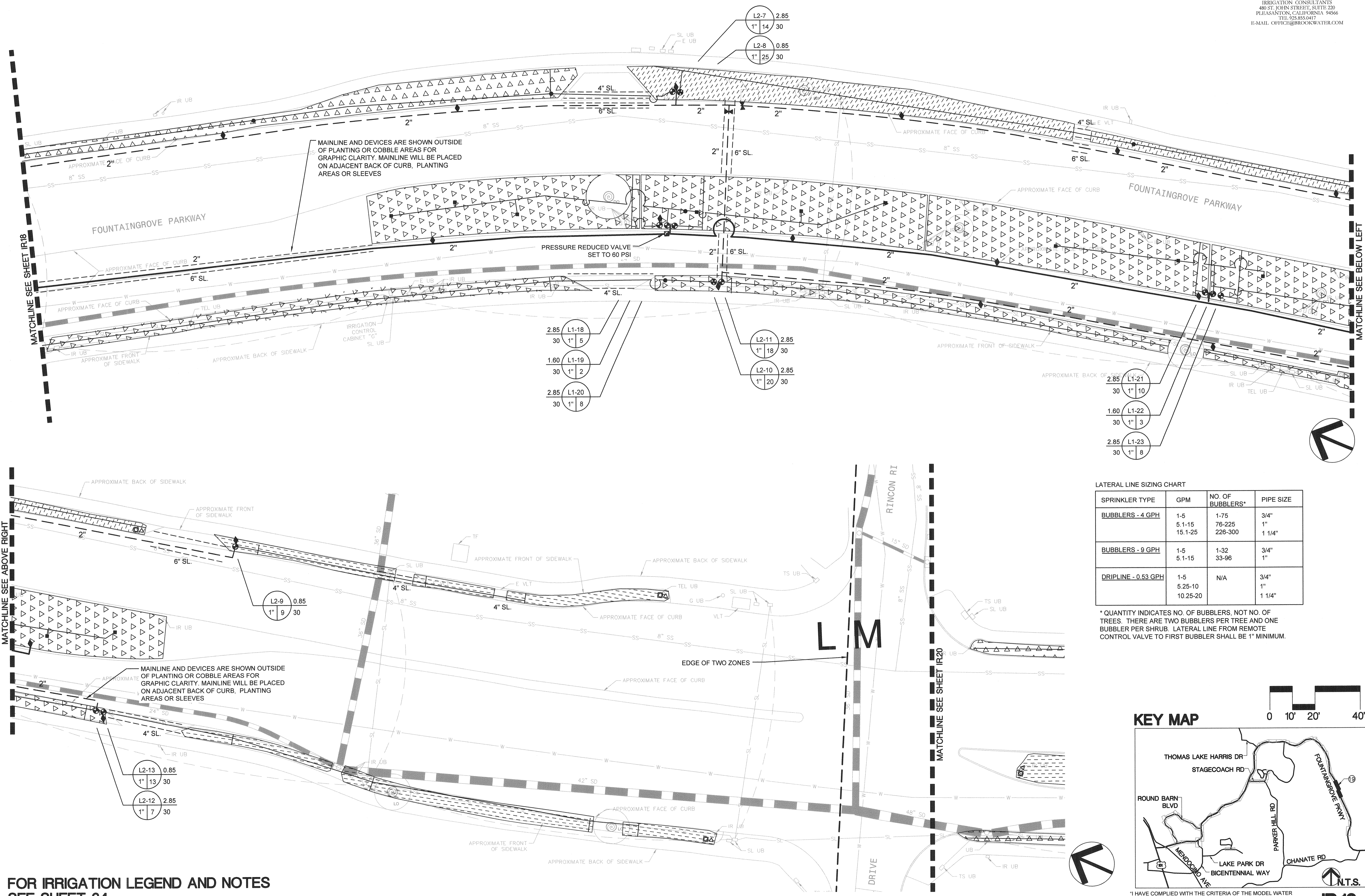
I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN. **IR.18**

File Path: C:\Users\jlm\OneDrive\Documents\Projects\2020\2020-0011\2020-0011-IR18.dwg
 Submitted: 05/14/2021 10:00 AM
 User: jlm
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SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

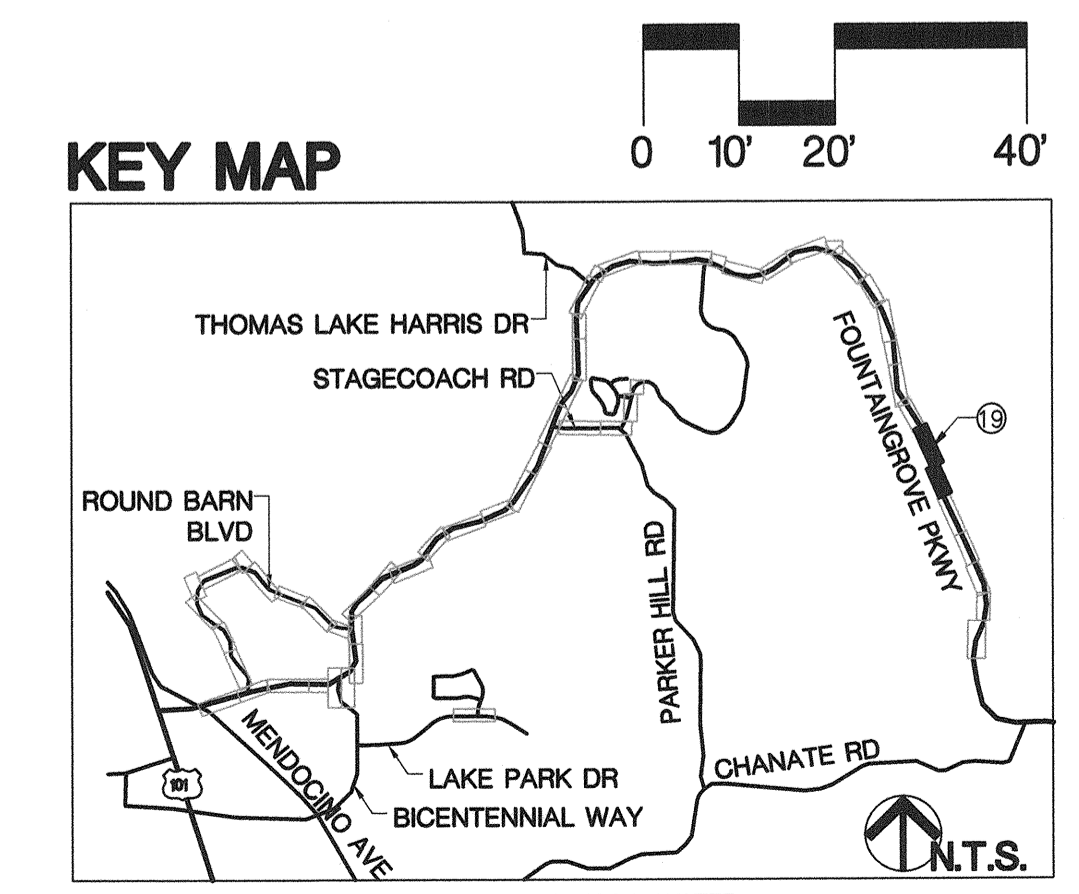
CITY OF SANTA ROSA	CONTRACT NO. CO2300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 88 OF 139
IRRIGATION PLAN	FILE NO. 2020-0011



LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.



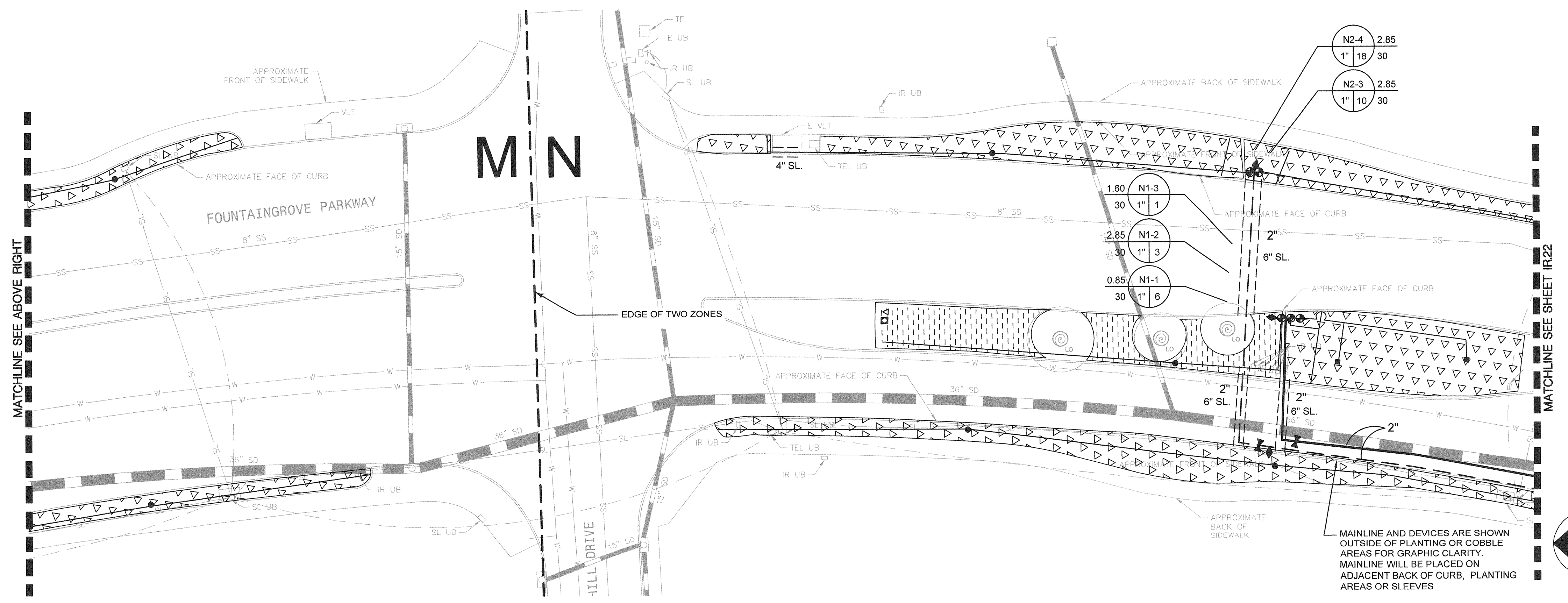
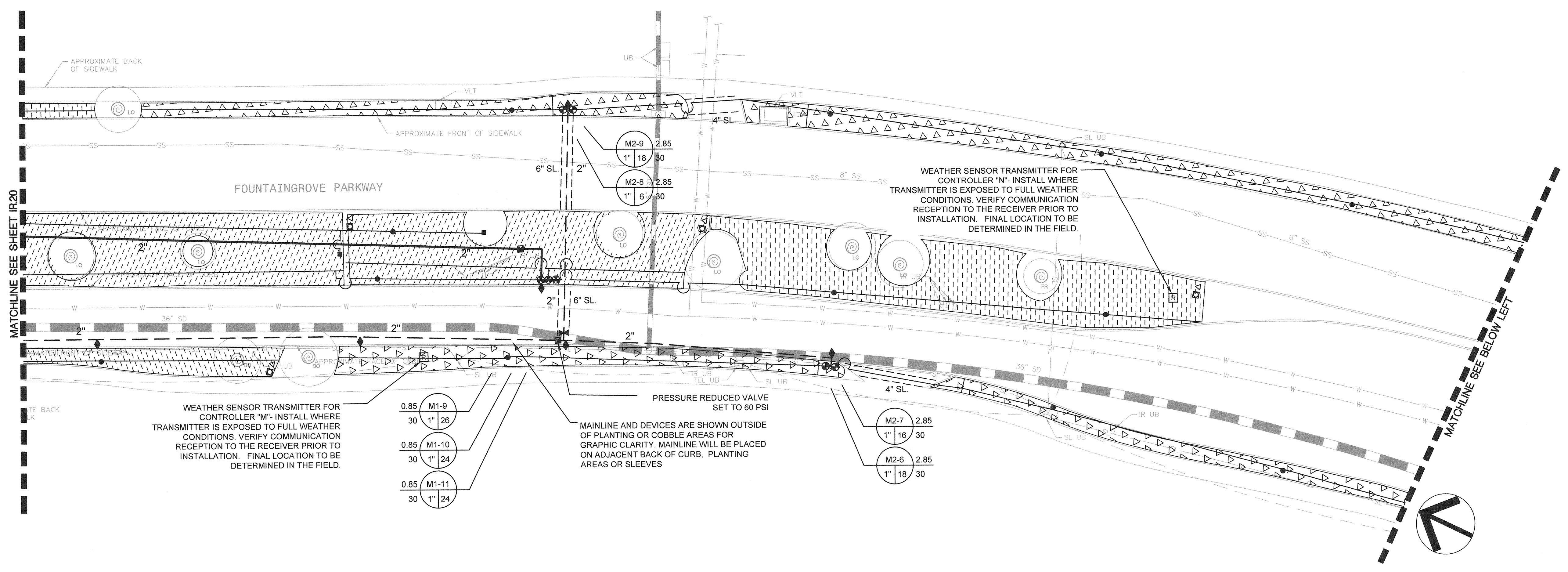
FOR IRRIGATION LEGEND AND NOTES SEE SHEET 64

File Path: C:\Client Files\California\Projects\Santa Rosa Fire Damaged Roadway Landscaping\2020\190605_SRS_Fire Damaged Roadway Landscaping\190605_SRS_Fire Damaged Roadway Landscaping.dwg
 Project: Santa Rosa Fire Damaged Roadway Landscaping
 Date: 05/14/2021
 Designer: Janet S. Lueners
 Checker: Janet S. Lueners
 Date: 05/14/2021
 Project No: 2020-0011
 Sheet No: 88 of 139
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DWN BY	JB				

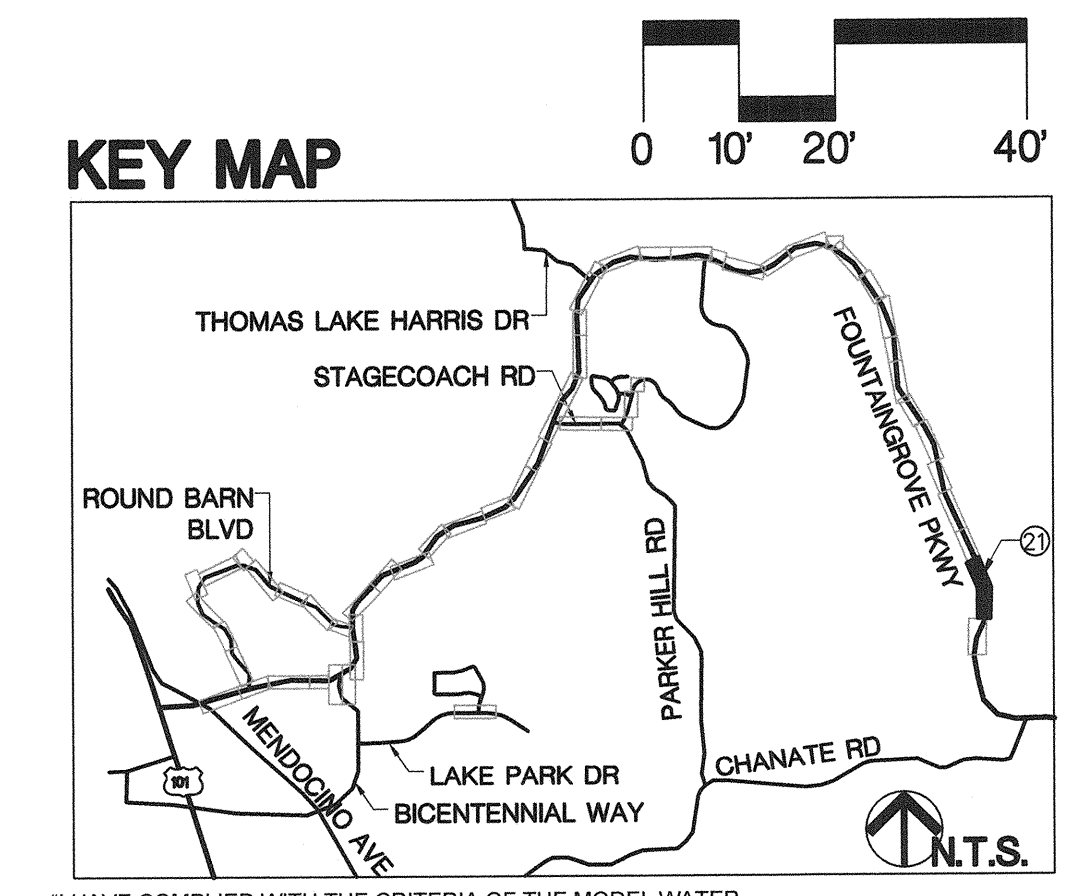
CITY OF SANTA ROSA	IRRIGATION PLAN
FIRE DAMAGED ROADWAY LANDSCAPING	
CONTRACT NO. CO2300	
SHEET 90 OF 139	FILE NO. 2020-0011



LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.



FOR IRRIGATION LEGEND AND NOTES
SEE SHEET 64

I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

IR.21

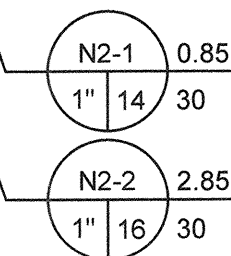
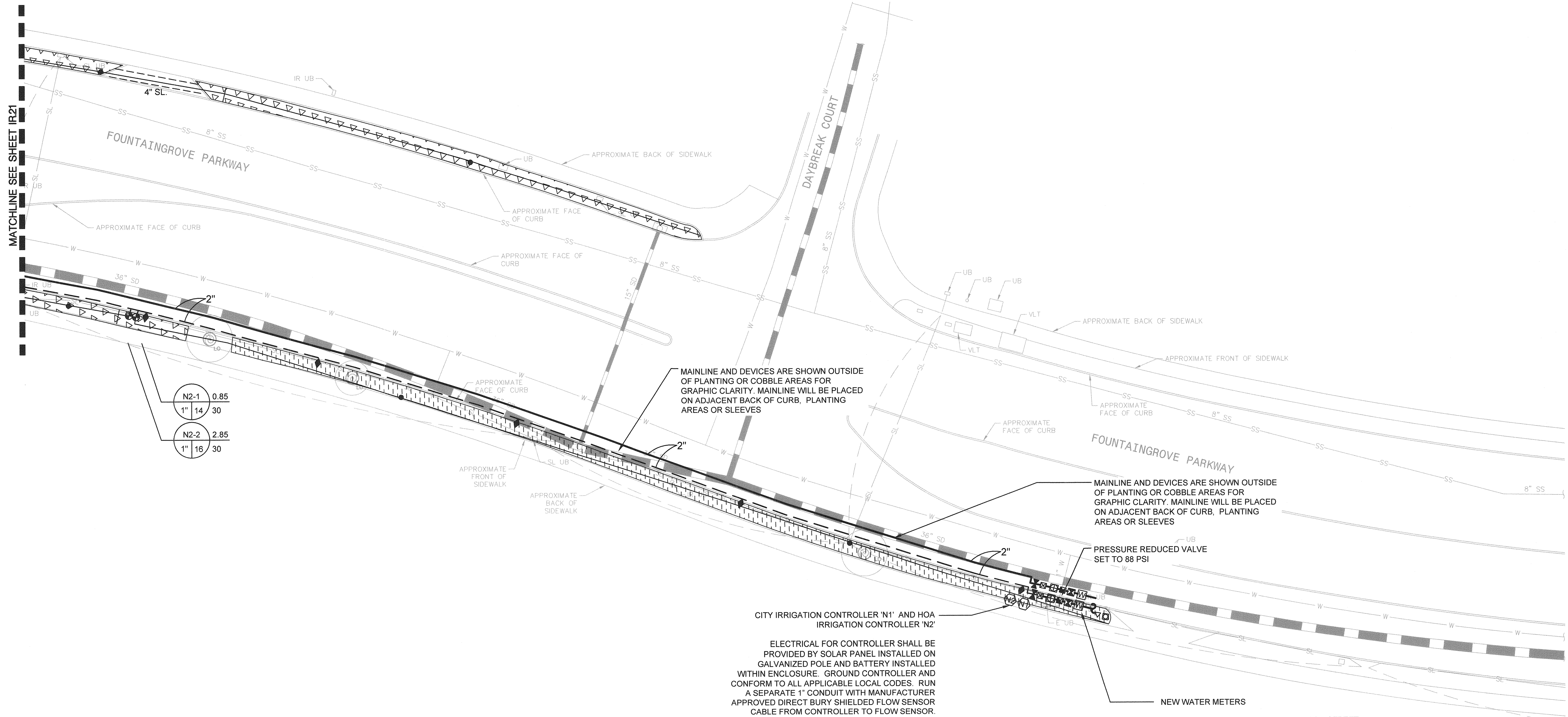
File Path: C:\Users\Janet.Luehr\Documents\Projects\2020\2020-0011\2020-0011-001\2020-0011-001-001.dwg Plot Date: 5/14/21 Created By: Janet Luehr



NO.	DATE	REVISION	BY

SCALE: AS SHOWN
 DWN BY: JB
 DATE: 05/14/2021
 CHK BY: JL

CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
IRRIGATION PLAN
 CONTRACT NO. CO2300
 SHEET 91 OF 139
 FILE NO. 2020-0011



MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES

MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES

PRESSURE REDUCED VALVE SET TO 88 PSI

CITY IRRIGATION CONTROLLER 'N1' AND HOA IRRIGATION CONTROLLER 'N2'

ELECTRICAL FOR CONTROLLER SHALL BE PROVIDED BY SOLAR PANEL INSTALLED ON GALVANIZED POLE AND BATTERY INSTALLED WITHIN ENCLOSURE. GROUND CONTROLLER AND CONFORM TO ALL APPLICABLE LOCAL CODES. RUN A SEPARATE 1" CONDUIT WITH MANUFACTURER APPROVED DIRECT BURY SHIELDED FLOW SENSOR CABLE FROM CONTROLLER TO FLOW SENSOR.

NEW WATER METERS

IRRIGATION DEMAND: 19 GPM AT 136 PSI. STREET PRESSURE IS GIVEN AS 136 PSI. FIELD VERIFY STATIC WATER PRESSURE PRIOR TO STARTING ANY WORK. IF PRESSURE VARIES FROM REQUIRED PRESSURE STATED ABOVE, NOTIFY LANDSCAPE ARCHITECT FOR FURTHER INSTRUCTION.

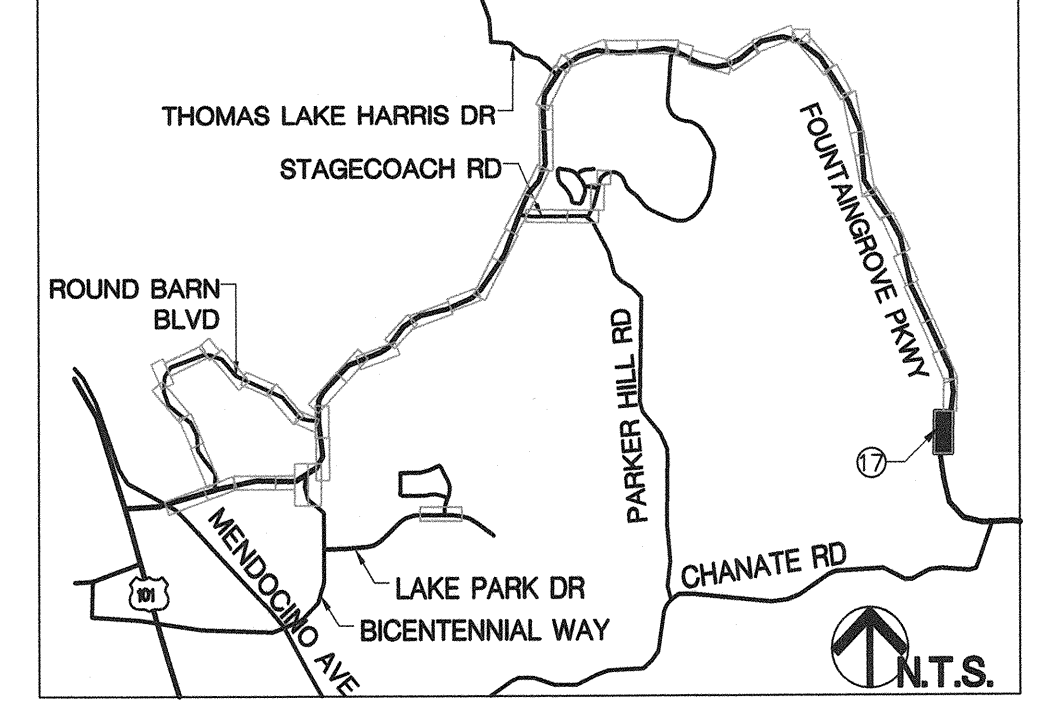
NOTE: IRRIGATION EQUIPMENT SHOWN IN PAVING DIAGRAMMATICALLY FOR CLARITY. INSTALL EQUIPMENT IN PLANTING AREAS. TYPICAL.

LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.

KEY MAP



I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

IR.22

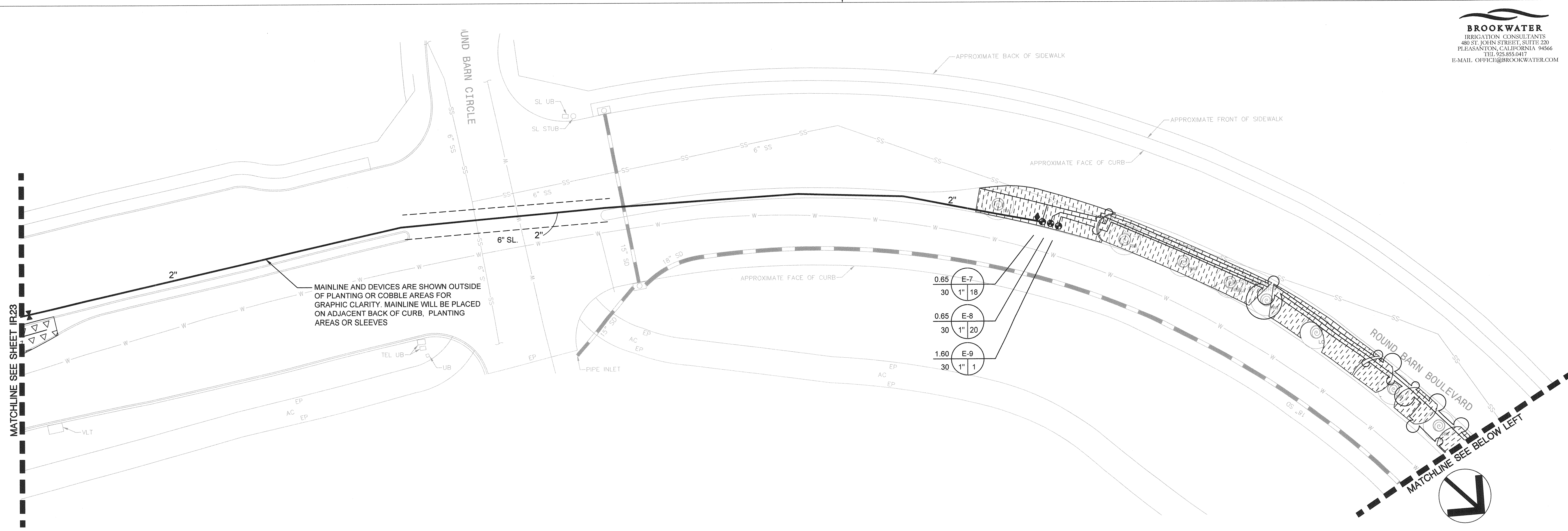
FOR IRRIGATION LEGEND AND NOTES
 SEE SHEET 64

File Path: \\C:\Users\Janet.Luehrs\OneDrive\Documents\Projects\Santa Rosa\Sheetsets\All.dwg Plot Date: 5/14/21 Saved By: Janet Luehrs © 2019 Calandrier Associates Landscape Architecture, Inc.

NO.	DATE	REVISION	BY

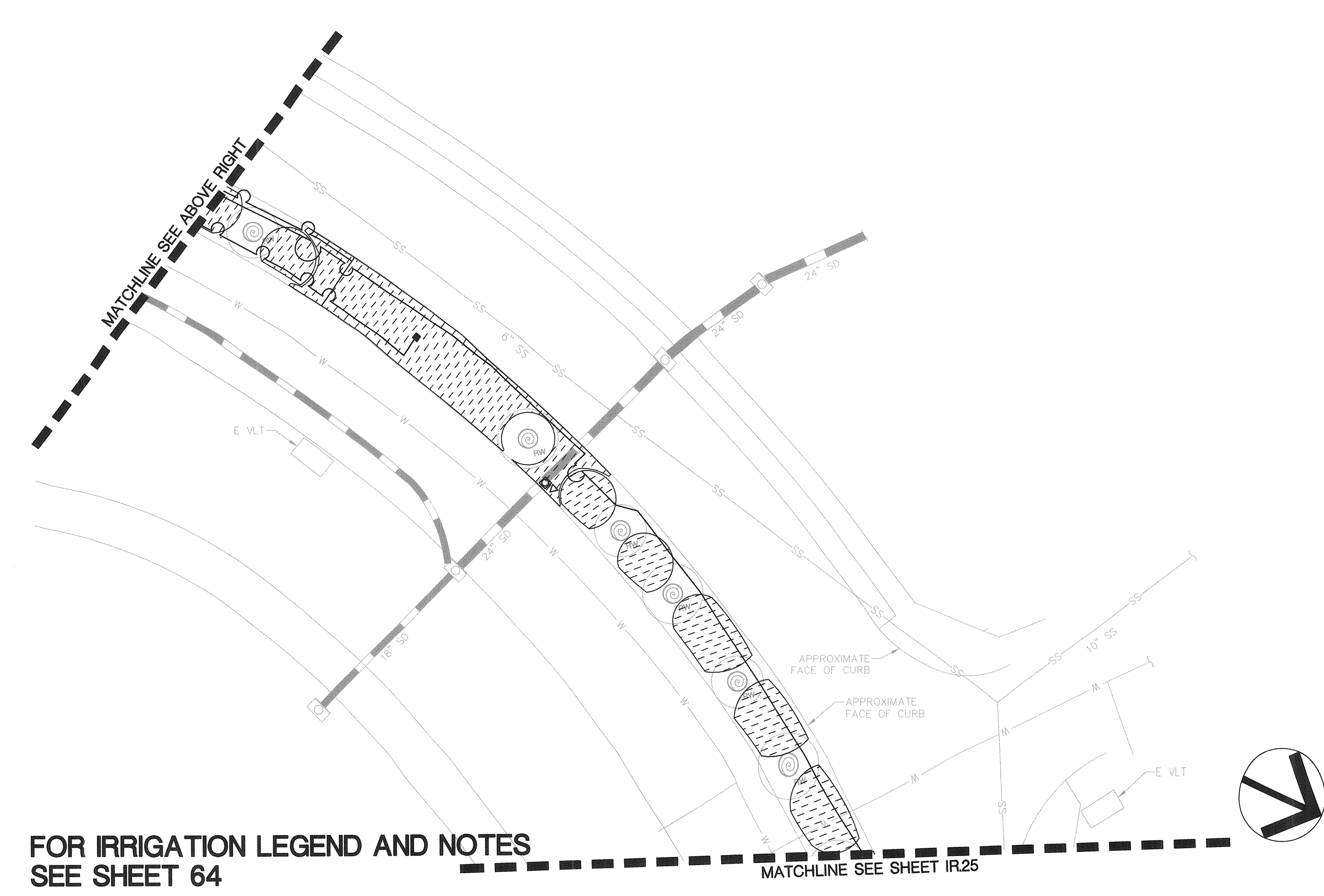
SCALE:	AS SHOWN
DWN BY:	JB
CHK BY:	JL
DATE:	05/14/2021

CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING
IRRIGATION PLAN
CONTRACT NO. CO2300
SHEET 93 OF 139
FILE NO. 2020-0011



MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES

- 0.65 E-7
30 1\" 18
- 0.65 E-8
30 1\" 20
- 1.60 E-9
30 1\" 1

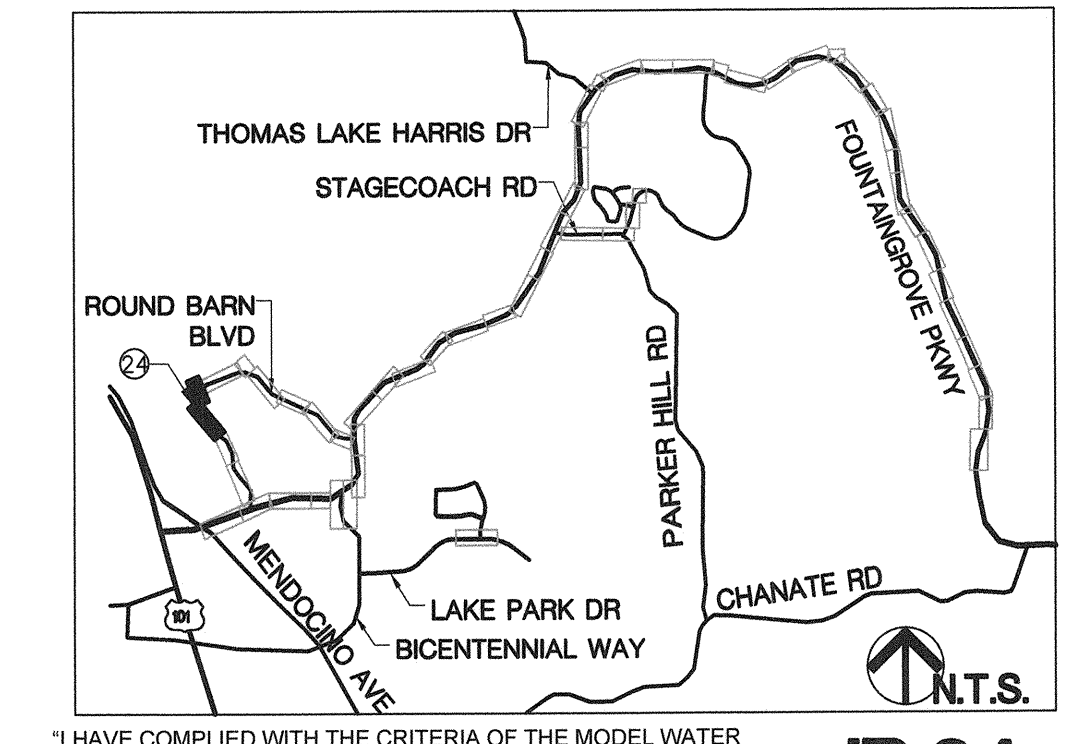
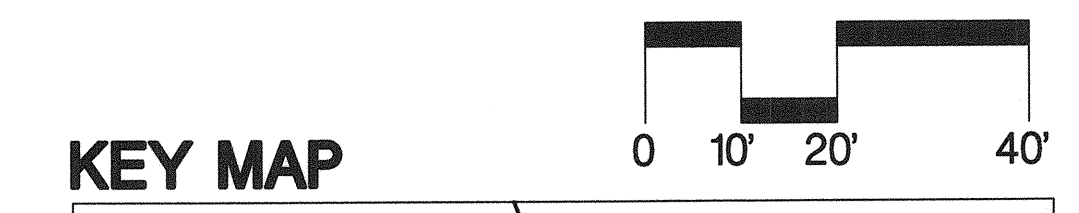


FOR IRRIGATION LEGEND AND NOTES
SEE SHEET 64

LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.

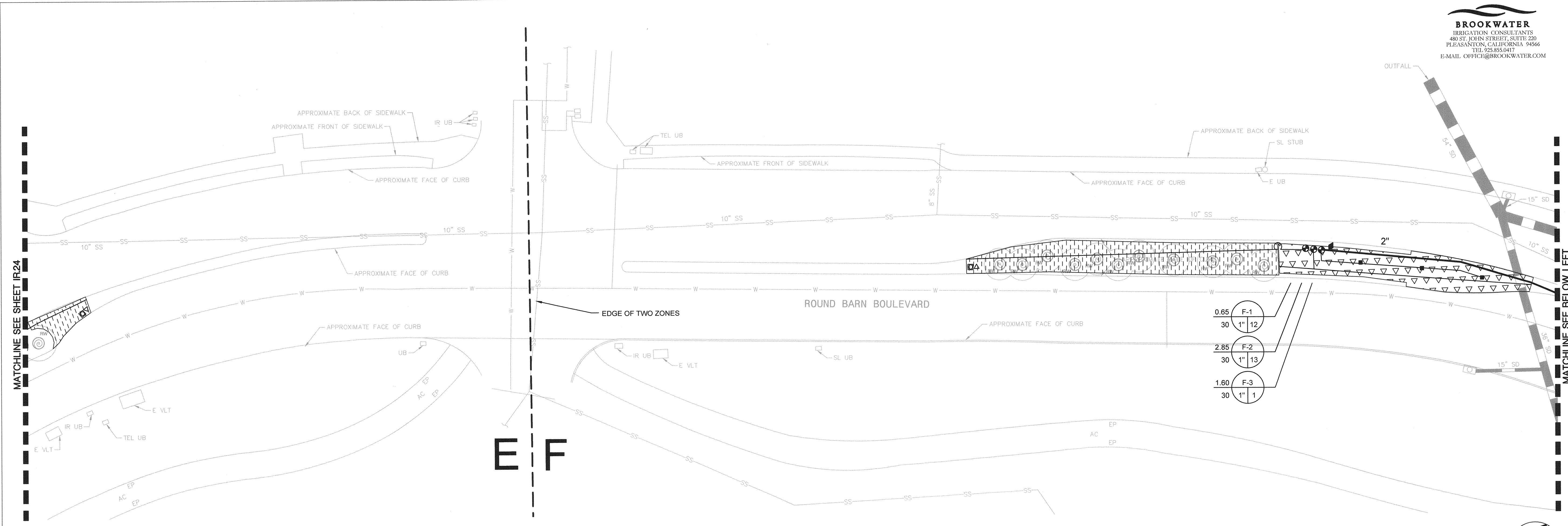


IR.24
I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

NO.	DATE	REVISION	BY

SCALE	DATE	CHK BY	BY
AS SHOWN	05/14/2021	JL	JL
DWN BY:	JB		

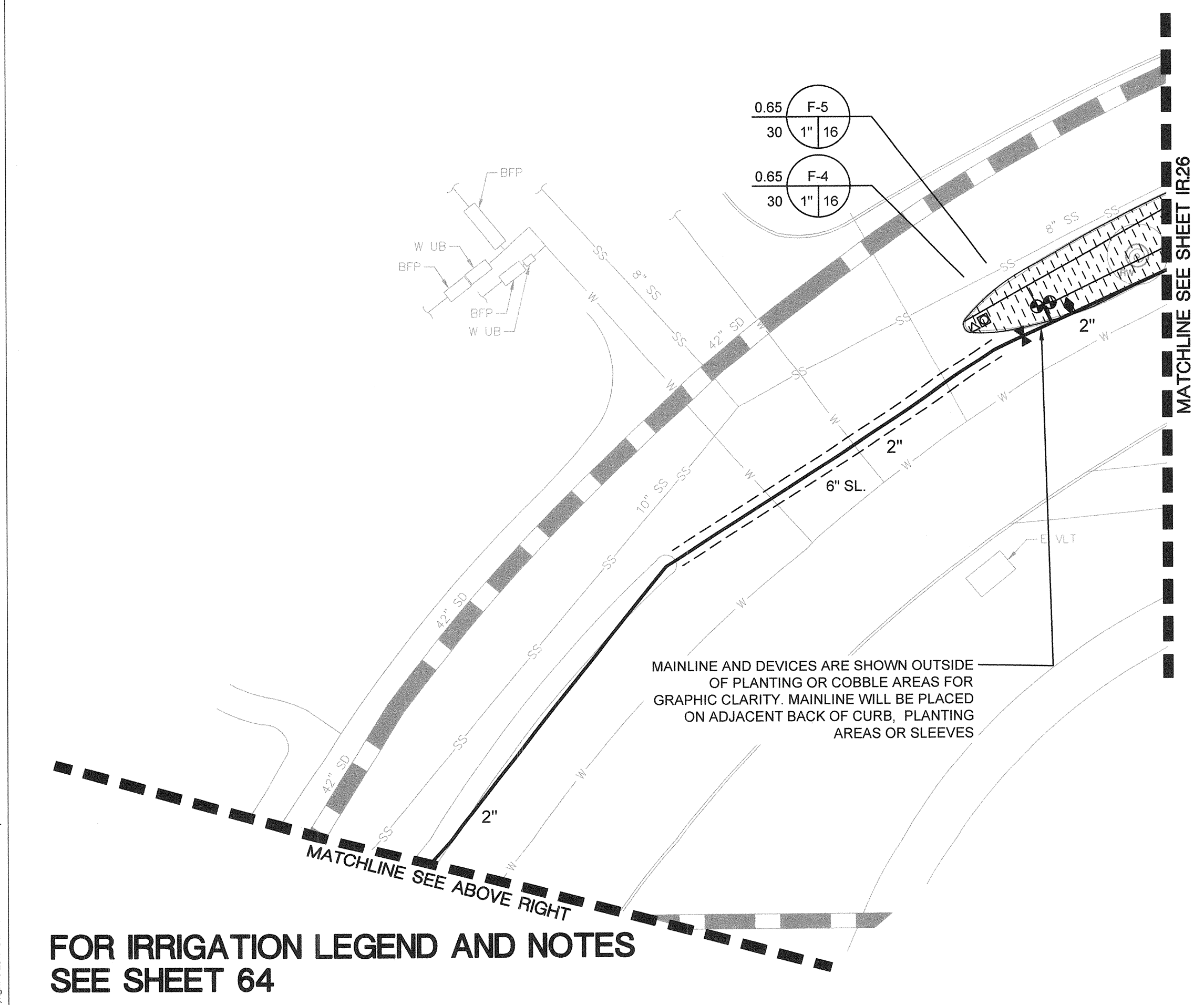
CITY OF SANTA ROSA	CONTRACT NO.
FIRE DAMAGED ROADWAY LANDSCAPING	CO2300
IRRIGATION PLAN	SHEET 94 OF 139
	FILE NO. 2020-0011



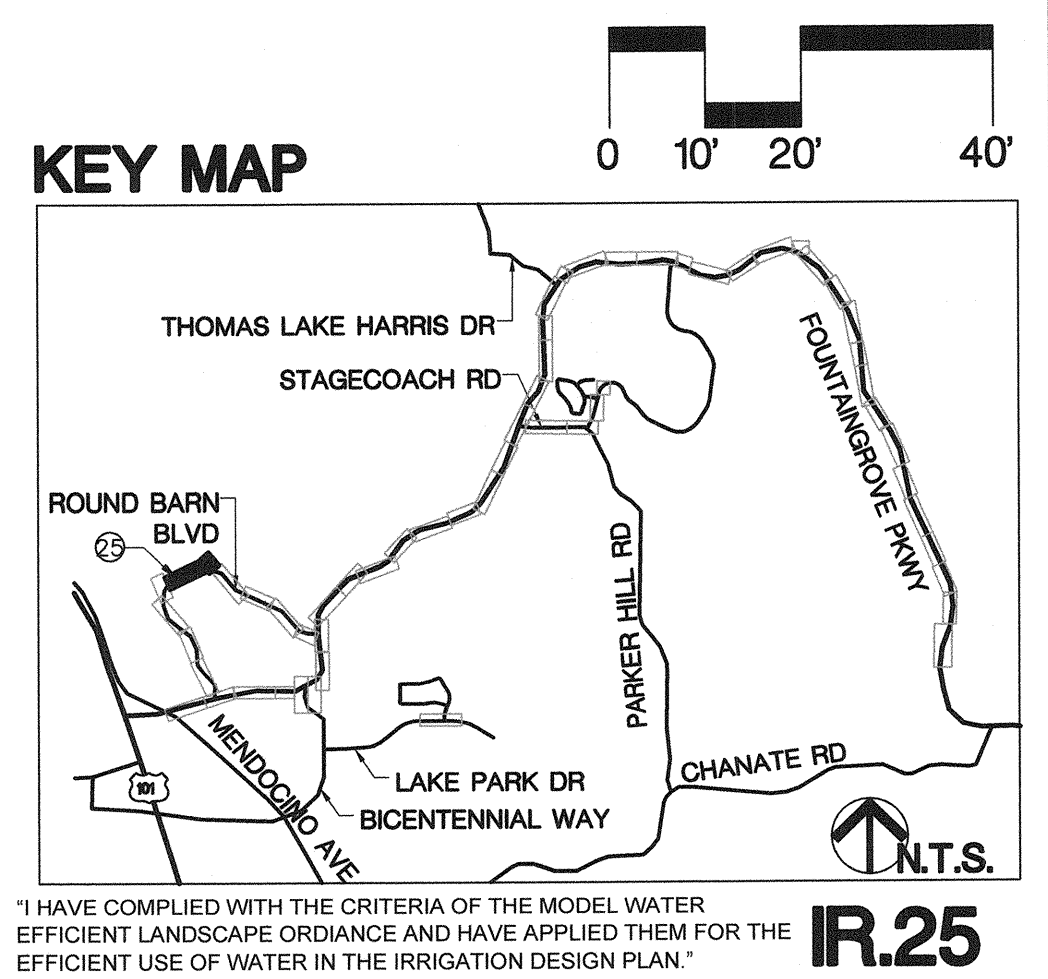
LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.

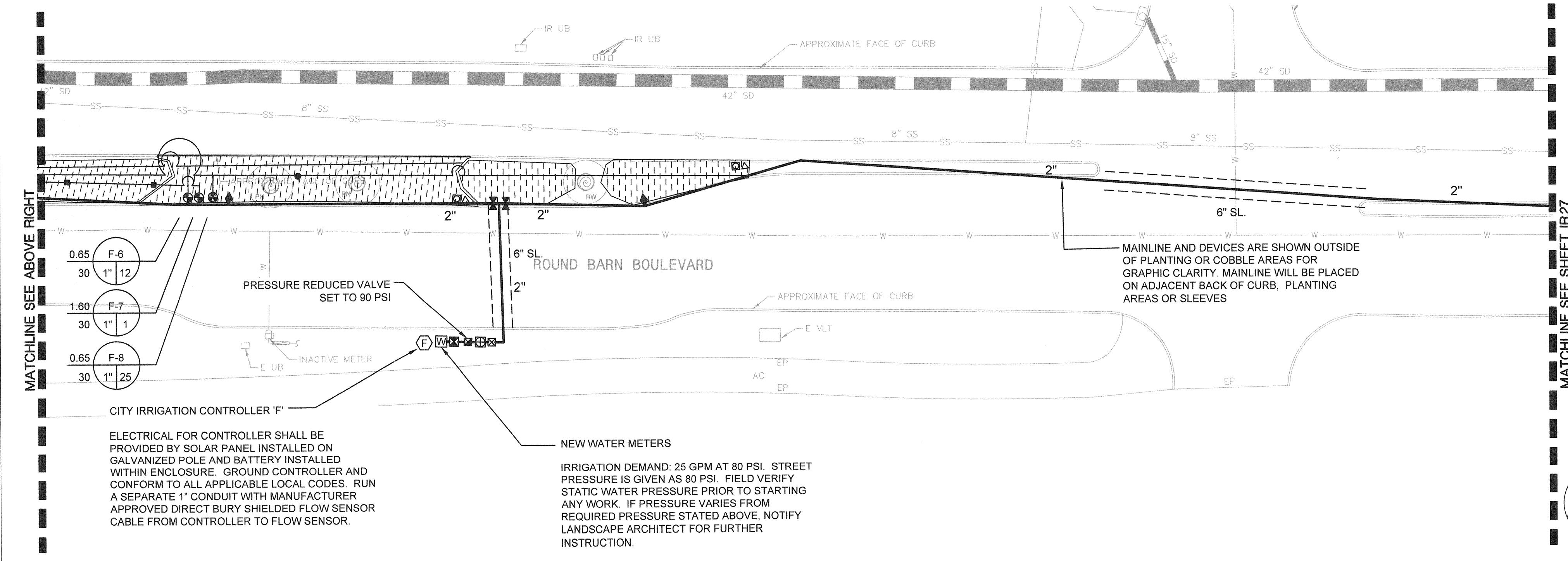
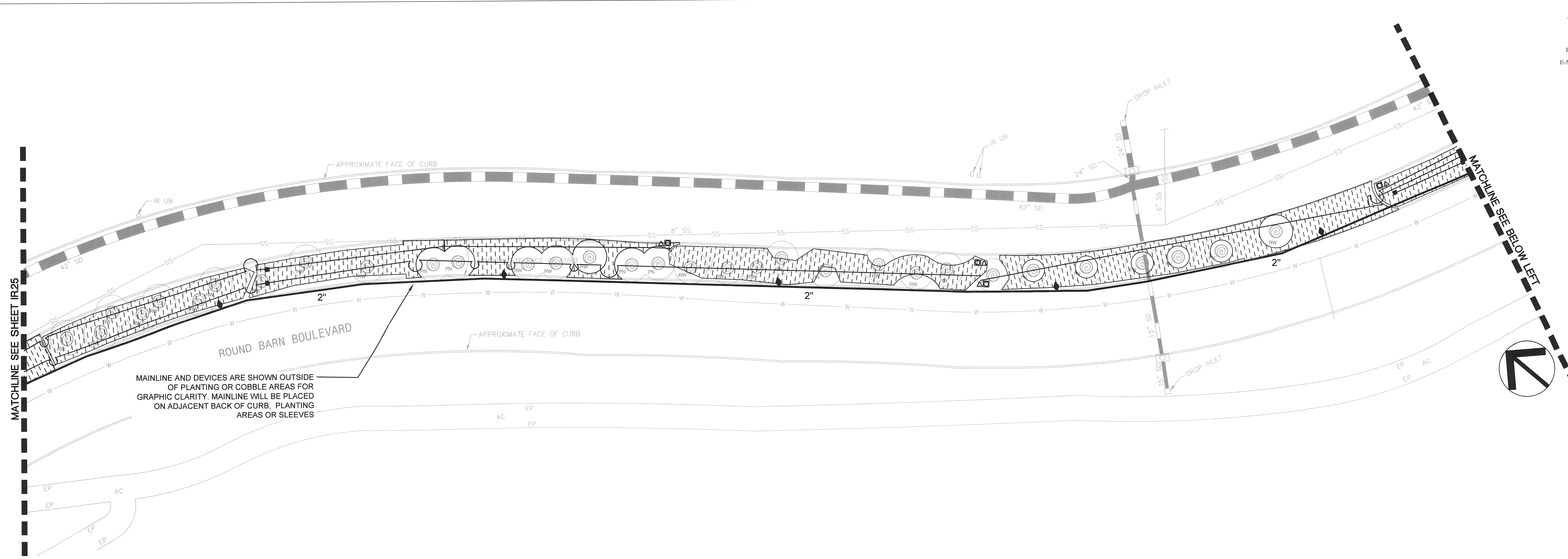


FOR IRRIGATION LEGEND AND NOTES SEE SHEET 64



I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

IR.25



LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

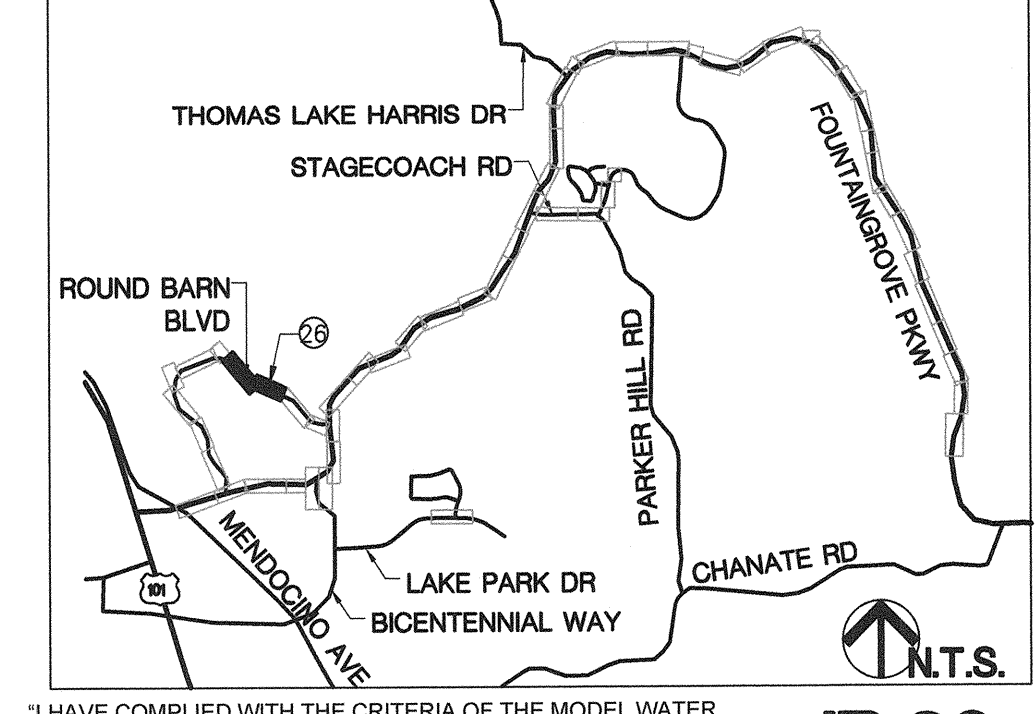
* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.

**FOR IRRIGATION LEGEND AND NOTES
 SEE SHEET 64**

CITY IRRIGATION CONTROLLER 'F'
 ELECTRICAL FOR CONTROLLER SHALL BE PROVIDED BY SOLAR PANEL INSTALLED ON GALVANIZED POLE AND BATTERY INSTALLED WITHIN ENCLOSURE. GROUND CONTROLLER AND CONFORM TO ALL APPLICABLE LOCAL CODES. RUN A SEPARATE 1" CONDUIT WITH MANUFACTURER APPROVED DIRECT BURY SHIELDED FLOW SENSOR CABLE FROM CONTROLLER TO FLOW SENSOR.

NEW WATER METERS
 IRRIGATION DEMAND: 25 GPM AT 80 PSI. STREET PRESSURE IS GIVEN AS 80 PSI. FIELD VERIFY STATIC WATER PRESSURE PRIOR TO STARTING ANY WORK. IF PRESSURE VARIES FROM REQUIRED PRESSURE STATED ABOVE, NOTIFY LANDSCAPE ARCHITECT FOR FURTHER INSTRUCTION.

KEY MAP



NO.	DATE	REVISION	BY

SCALE:	DATE:	CHK BY:
AS SHOWN	05/14/2021	JL
DWN BY:		
JB		

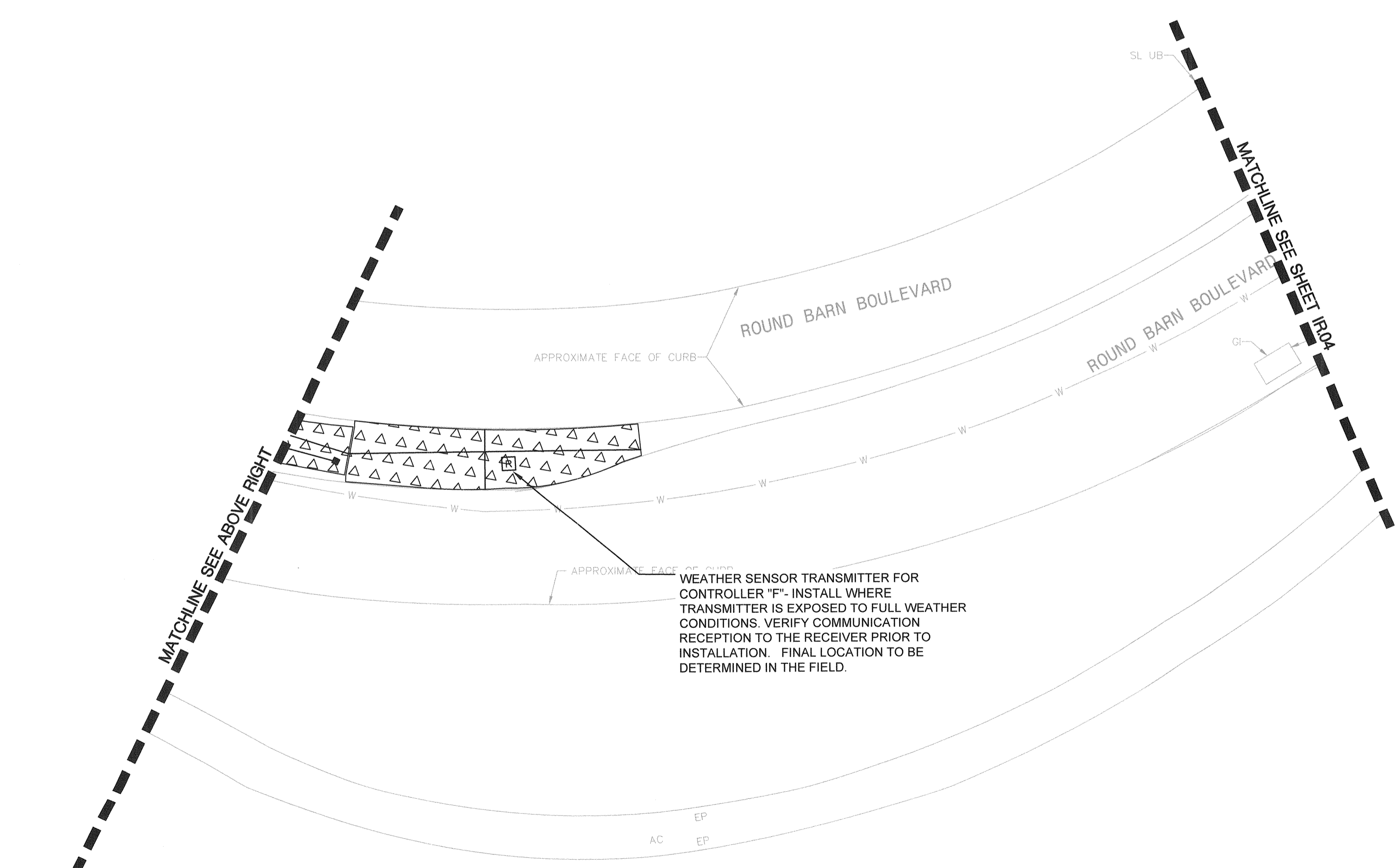
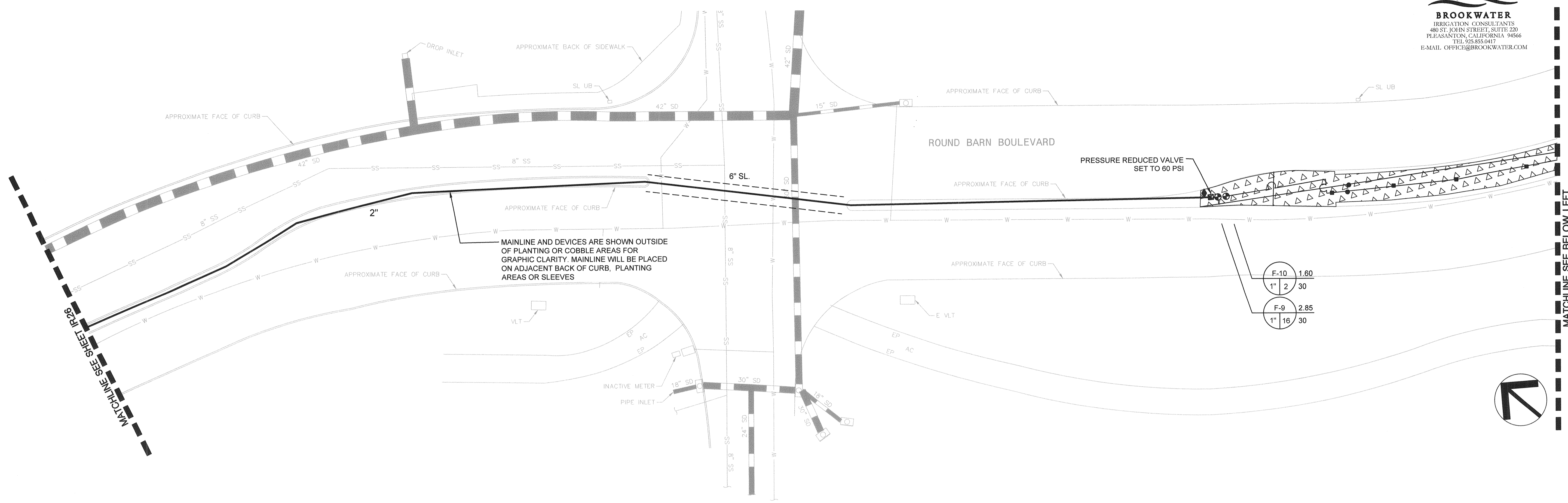
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
IRRIGATION PLAN
 CONTRACT NO. CO2300
 SHEET 95 OF 139
 FILE NO. 2020-0011

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NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021
DWN BY: JB	CHK BY: JL

CITY OF SANTA ROSA	CONTRACT NO. CO2300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 96 OF 139
IRRIGATION PLAN	FILE NO. 2020-0011



**FOR IRRIGATION LEGEND AND NOTES
 SEE SHEET 64**

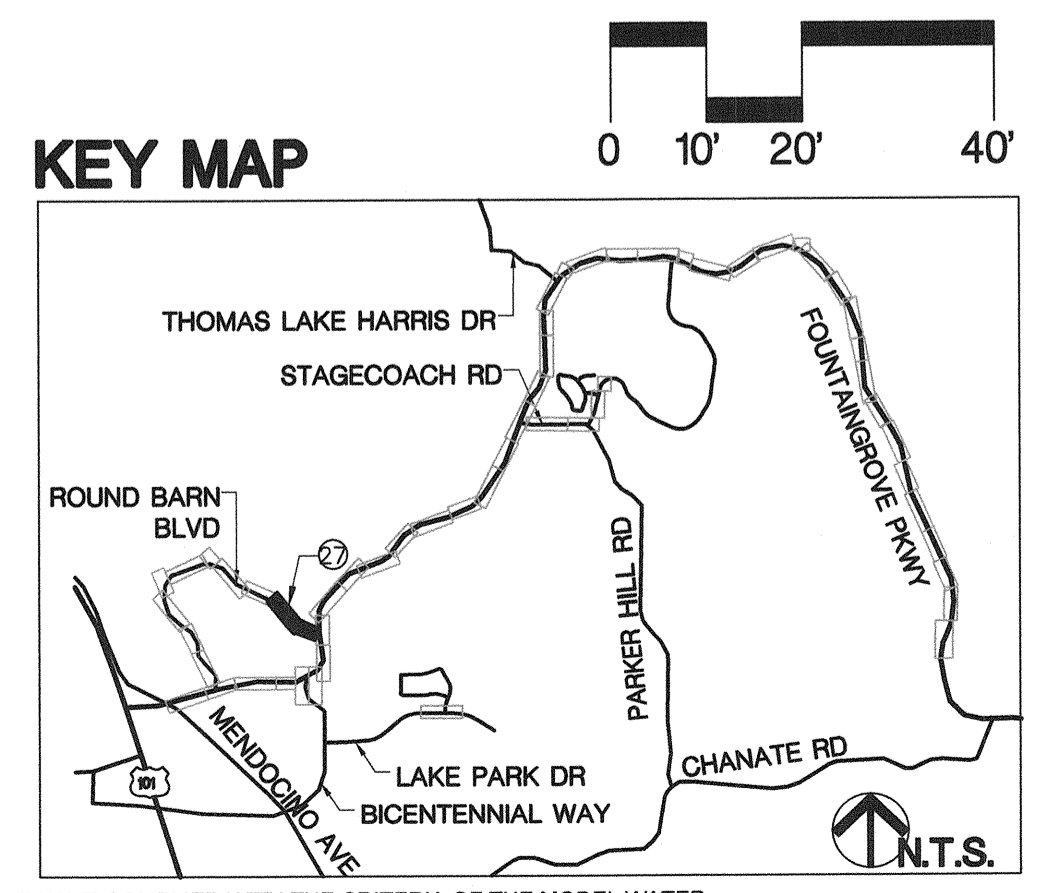
MAINLINE AND DEVICES ARE SHOWN OUTSIDE OF PLANTING OR COBBLE AREAS FOR GRAPHIC CLARITY. MAINLINE WILL BE PLACED ON ADJACENT BACK OF CURB, PLANTING AREAS OR SLEEVES

WEATHER SENSOR TRANSMITTER FOR CONTROLLER 'F'. INSTALL WHERE TRANSMITTER IS EXPOSED TO FULL WEATHER CONDITIONS. VERIFY COMMUNICATION RECEPTION TO THE RECEIVER PRIOR TO INSTALLATION. FINAL LOCATION TO BE DETERMINED IN THE FIELD.

LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - 4 GPH	1-5	1-75	3/4"
	5.1-15	76-225	1"
	15.1-25	226-300	1 1/4"
BUBBLERS - 9 GPH	1-5	1-32	3/4"
	5.1-15	33-96	1"
DRIPLINE - 0.53 GPH	1-5	N/A	3/4"
	5.25-10		1"
	10.25-20		1 1/4"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.



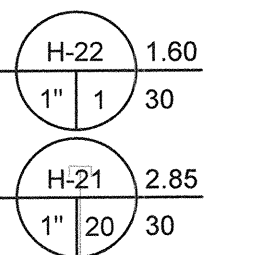
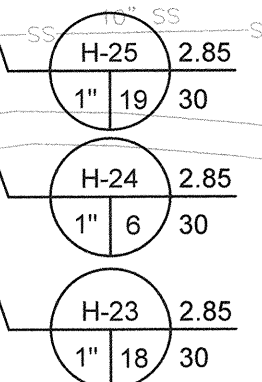
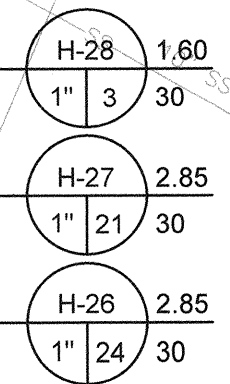
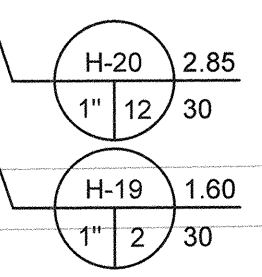
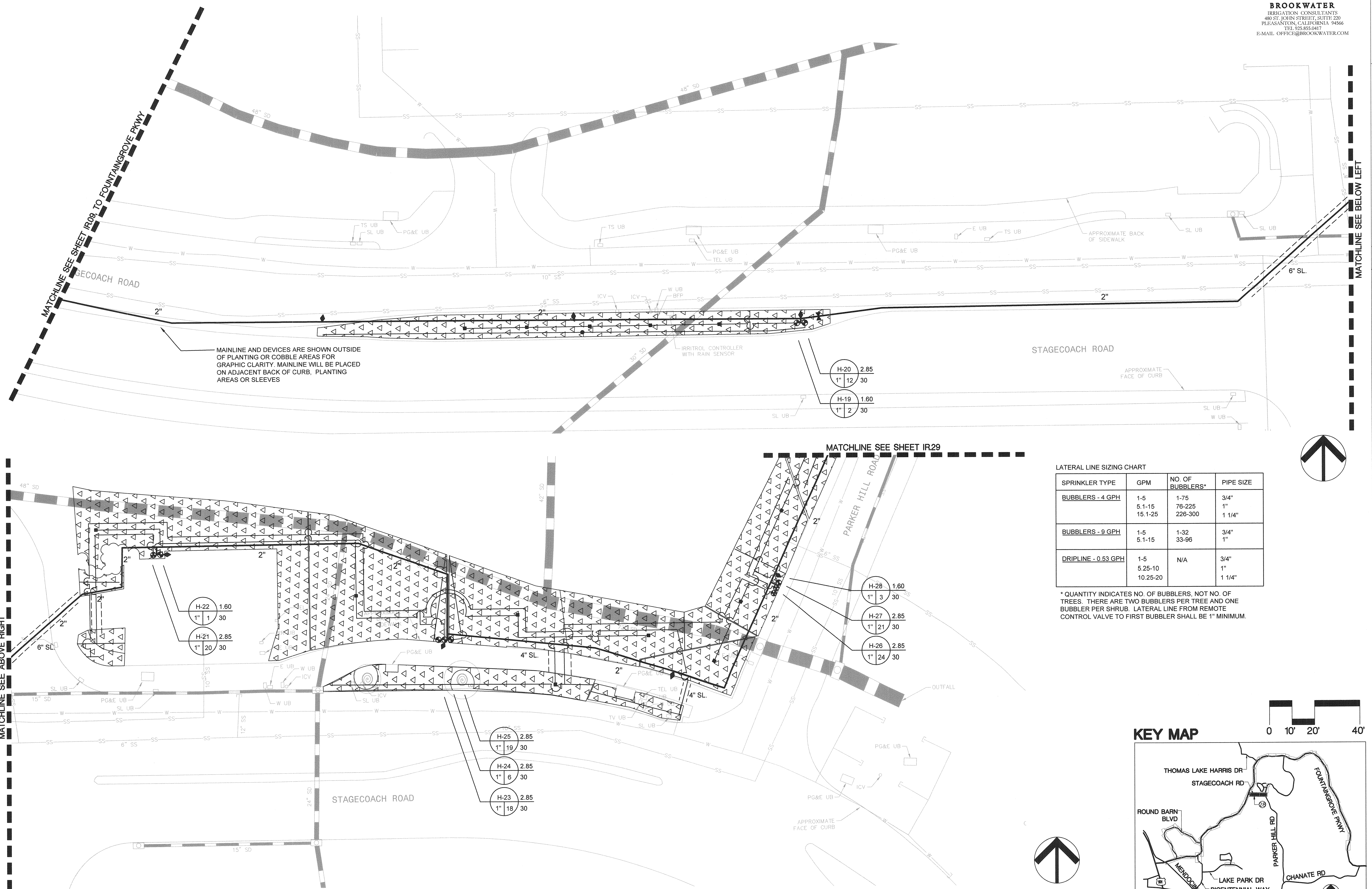
I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

IR.27

NO.	DATE	REVISION	BY

SCALE:	DATE:	CHK BY:
AS SHOWN	05/14/2021	JL
DWN BY:		JB

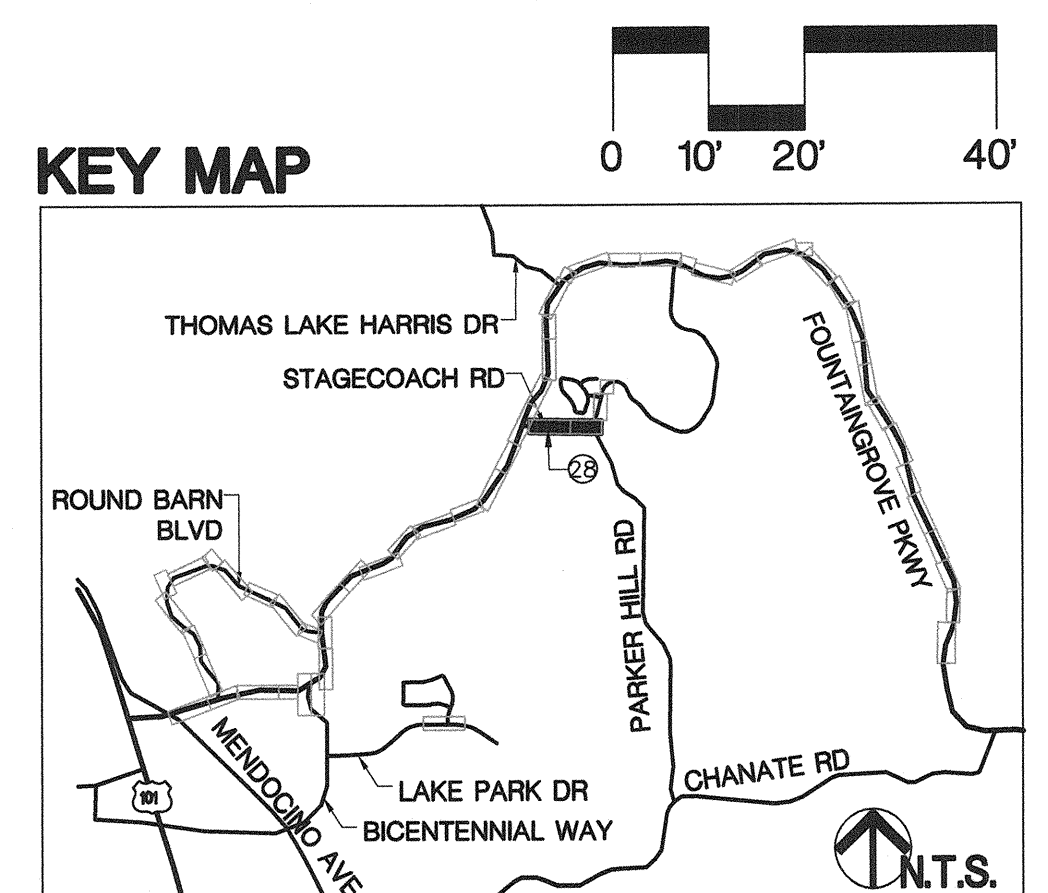
CITY OF SANTA ROSA	CONTRACT NO.
FIRE DAMAGED ROADWAY LANDSCAPING	CO2300
IRRIGATION PLAN	SHEET 97 OF 139
	FILE NO. 2020-0011



LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
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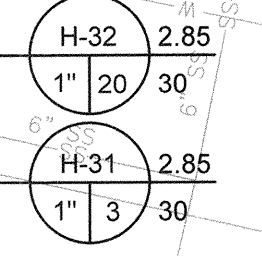
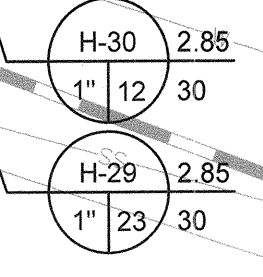
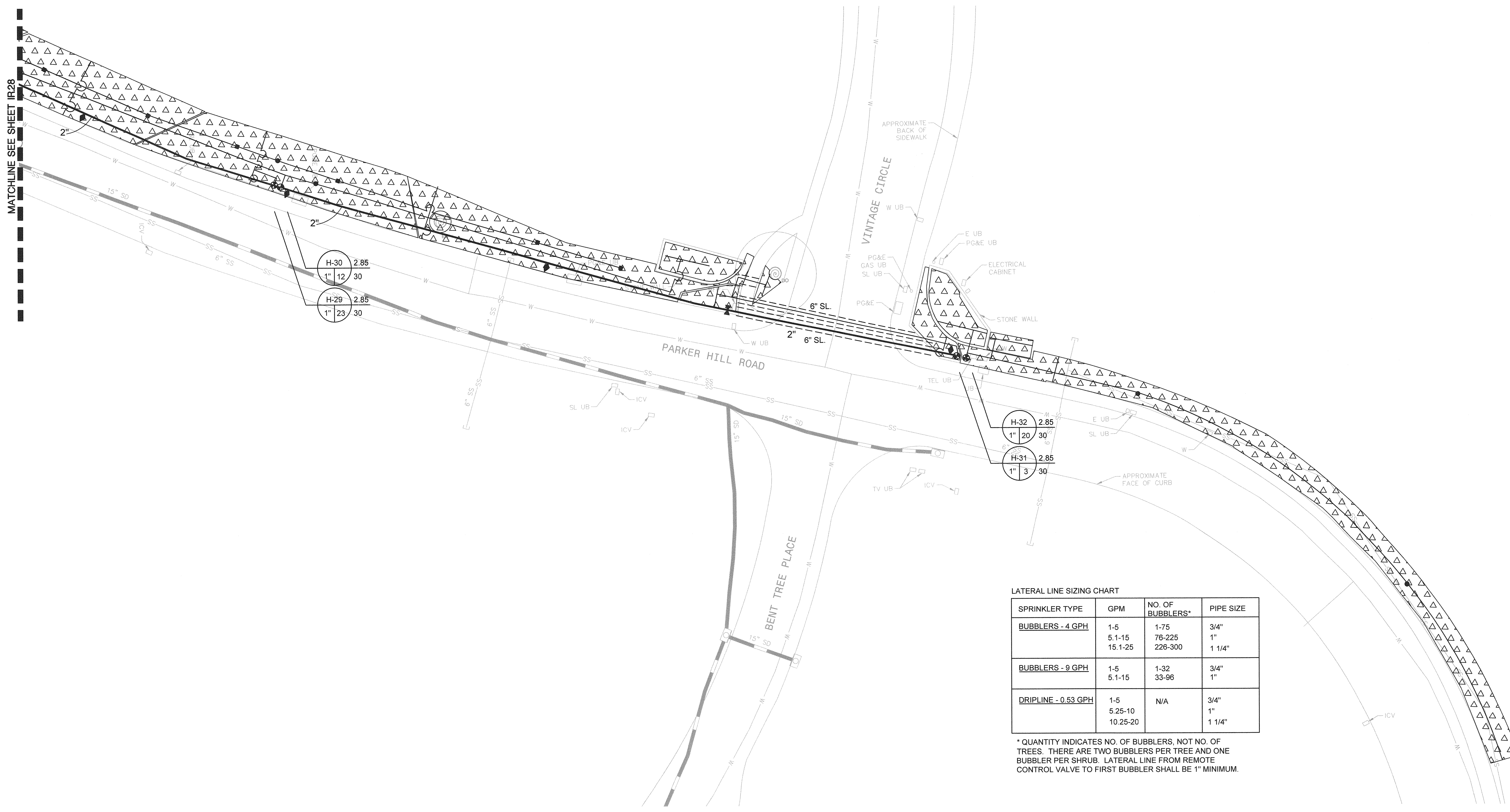


FOR IRRIGATION LEGEND AND NOTES SEE SHEET 64

I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

IR.28

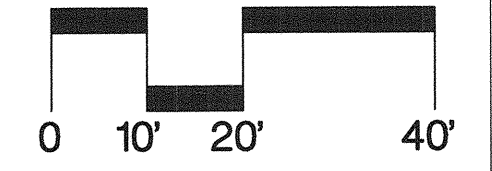
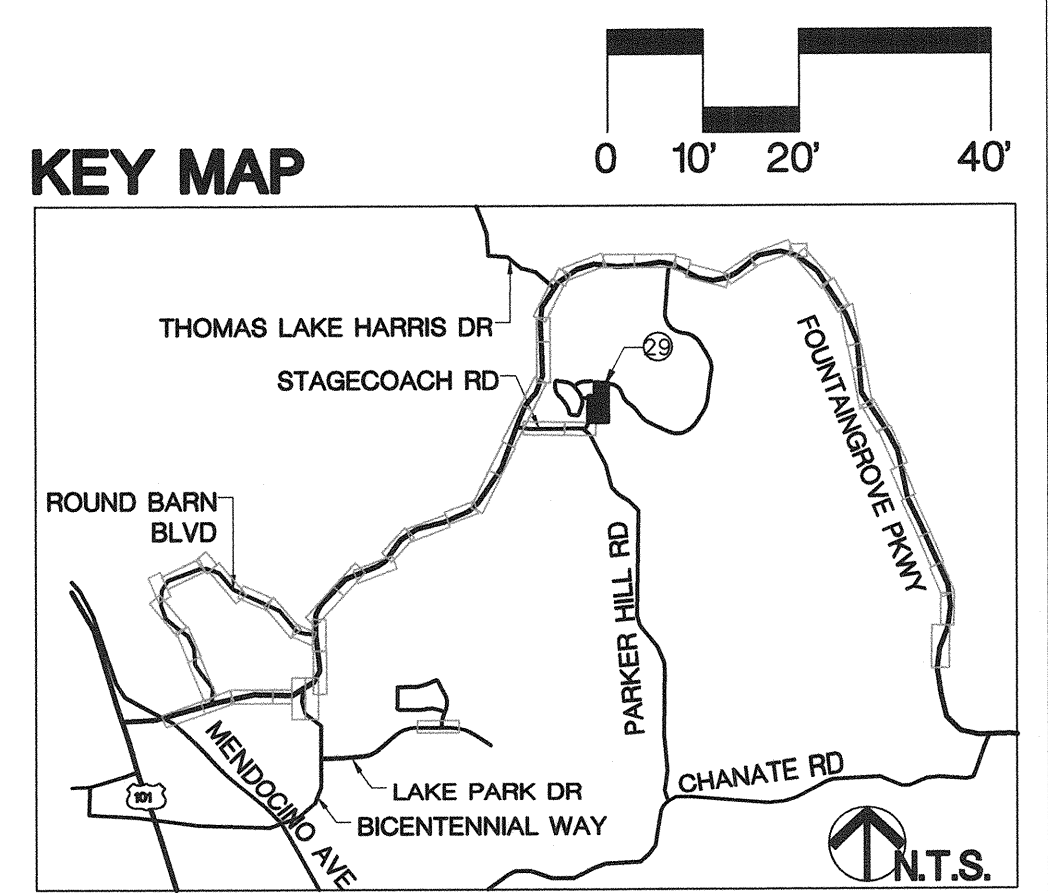
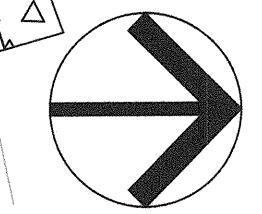
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LATERAL LINE SIZING CHART

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**FOR IRRIGATION LEGEND AND NOTES
 SEE SHEET 64**

NO.	DATE	REVISION	BY

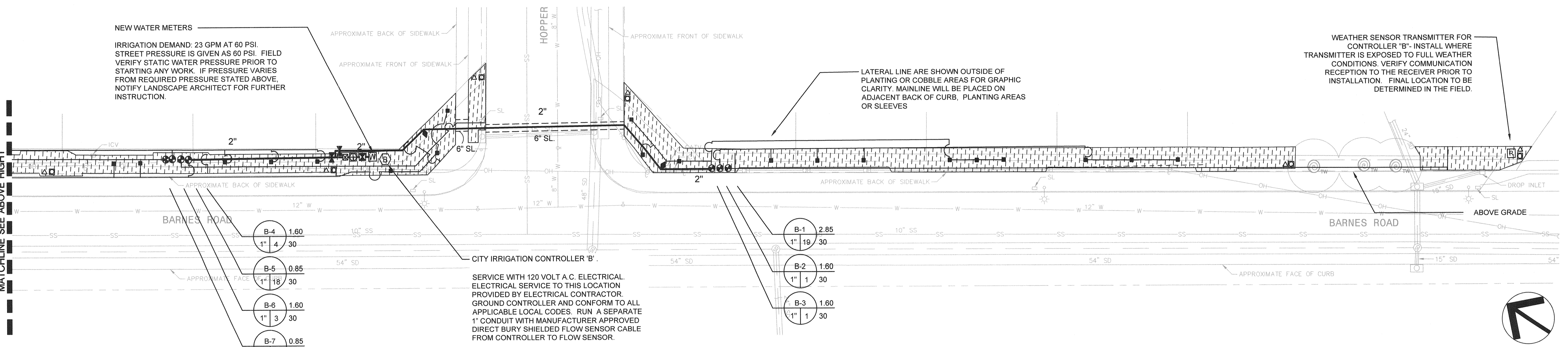
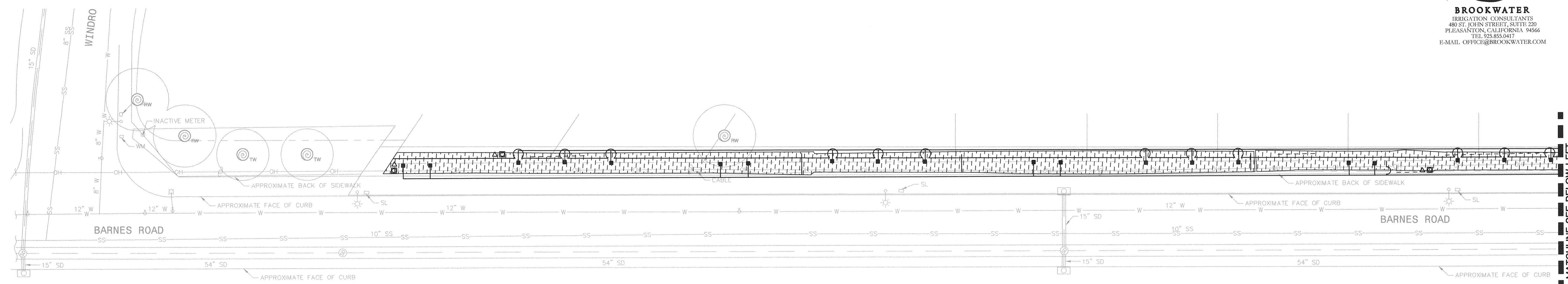
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DWN BY: JB		

CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
IRRIGATION PLAN
 CONTRACT NO. CO2300
 SHEET 98 OF 139
 FILE NO. 2020-0011

"I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN."
IR.29

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NO.	DATE	REVISION	BY



NEW WATER METERS
IRRIGATION DEMAND: 23 GPM AT 60 PSI.
STREET PRESSURE IS GIVEN AS 60 PSI. FIELD
VERIFY STATIC WATER PRESSURE PRIOR TO
STARTING ANY WORK. IF PRESSURE VARIES
FROM REQUIRED PRESSURE STATED ABOVE,
NOTIFY LANDSCAPE ARCHITECT FOR FURTHER
INSTRUCTION.

CITY IRRIGATION CONTROLLER 'B'
SERVICE WITH 120 VOLT A.C. ELECTRICAL
ELECTRICAL SERVICE TO THIS LOCATION
PROVIDED BY ELECTRICAL CONTRACTOR
GROUND CONTROLLER AND CONFORM TO ALL
APPLICABLE LOCAL CODES. RUN A SEPARATE
1" CONDUIT WITH MANUFACTURER APPROVED
DIRECT BURY SHIELDED FLOW SENSOR CABLE
FROM CONTROLLER TO FLOW SENSOR.

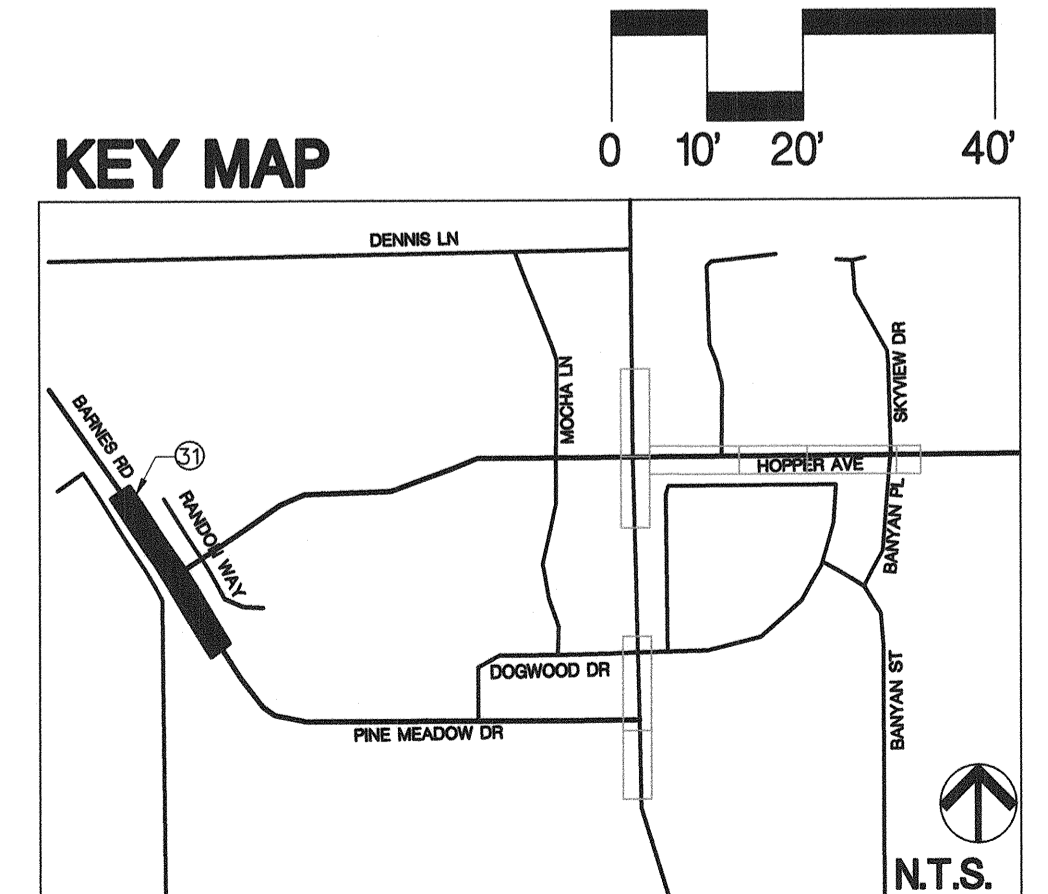
LATERAL LINE ARE SHOWN OUTSIDE OF
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OR SLEEVES

**WEATHER SENSOR TRANSMITTER FOR
CONTROLLER 'B'**- INSTALL WHERE
TRANSMITTER IS EXPOSED TO FULL WEATHER
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DETERMINED IN THE FIELD.

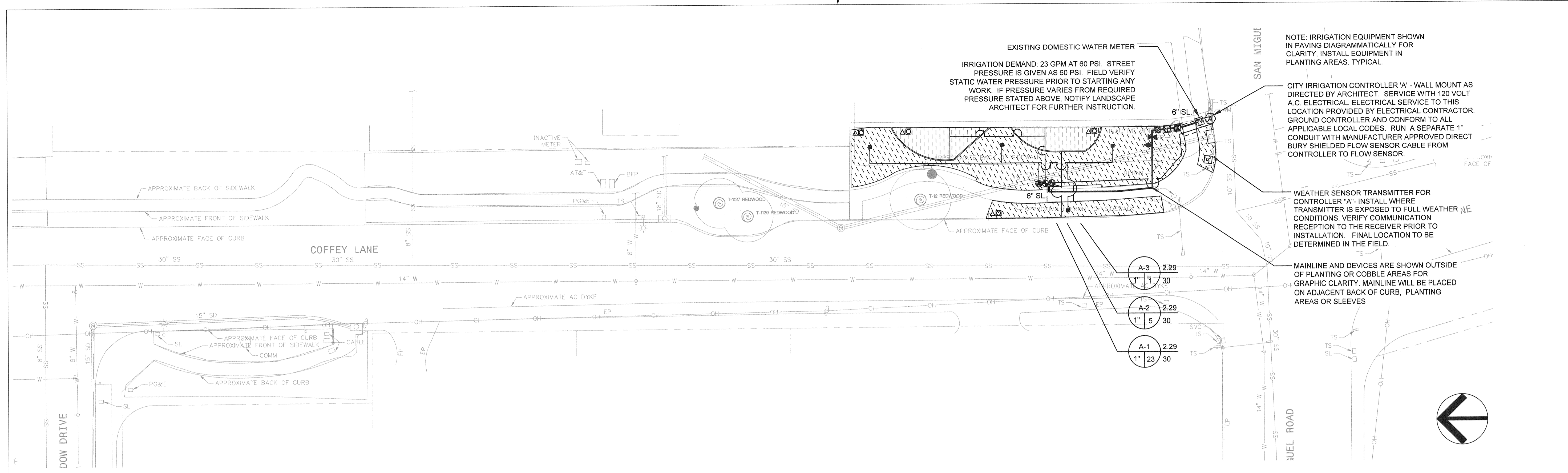
LATERAL LINE SIZING CHART

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**FOR IRRIGATION LEGEND AND NOTES
SEE SHEET 64**



EXISTING DOMESTIC WATER METER
 IRRIGATION DEMAND: 23 GPM AT 60 PSI. STREET PRESSURE IS GIVEN AS 60 PSI. FIELD VERIFY STATIC WATER PRESSURE PRIOR TO STARTING ANY WORK. IF PRESSURE VARIES FROM REQUIRED PRESSURE STATED ABOVE, NOTIFY LANDSCAPE ARCHITECT FOR FURTHER INSTRUCTION.

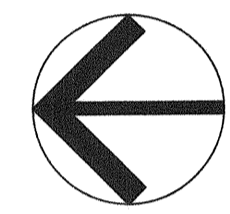
NOTE: IRRIGATION EQUIPMENT SHOWN IN PAVING DIAGRAMMATICALLY FOR CLARITY. INSTALL EQUIPMENT IN PLANTING AREAS. TYPICAL.

CITY IRRIGATION CONTROLLER 'A' - WALL MOUNT AS DIRECTED BY ARCHITECT. SERVICE WITH 120 VOLT A.C. ELECTRICAL. ELECTRICAL SERVICE TO THIS LOCATION PROVIDED BY ELECTRICAL CONTRACTOR. GROUND CONTROLLER AND CONFORM TO ALL APPLICABLE LOCAL CODES. RUN A SEPARATE 1" CONDUIT WITH MANUFACTURER APPROVED DIRECT BURY SHIELDED FLOW SENSOR CABLE FROM CONTROLLER TO FLOW SENSOR.

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- A-3 2.29
1" 4 30
- A-2 2.29
1" 5 30
- A-1 2.29
1" 23 30



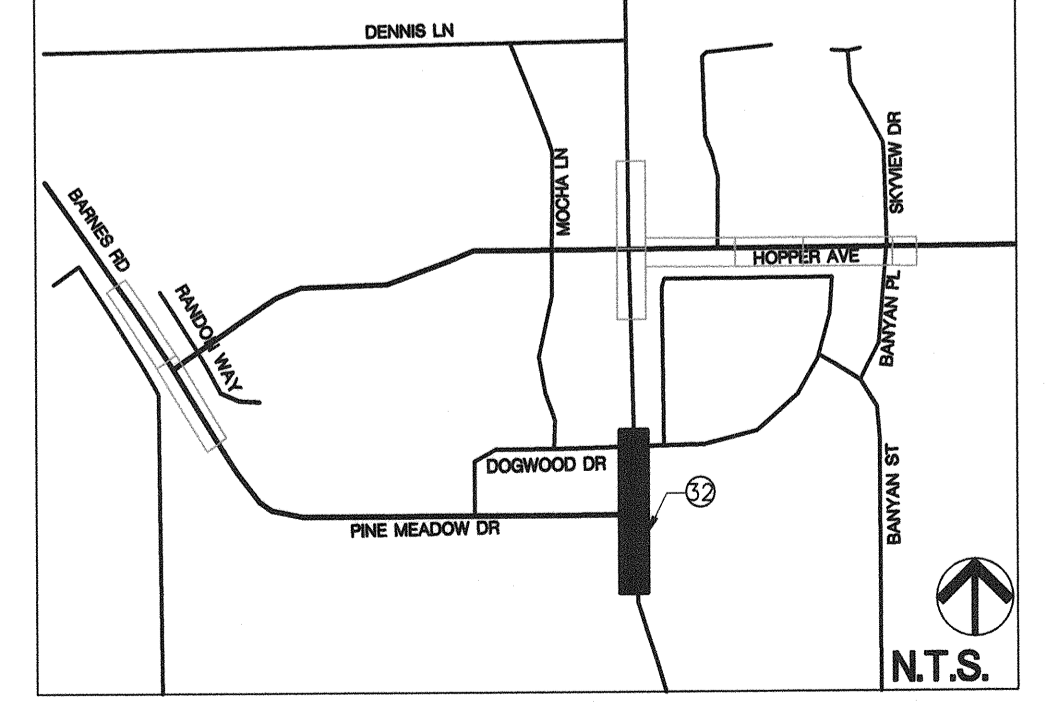
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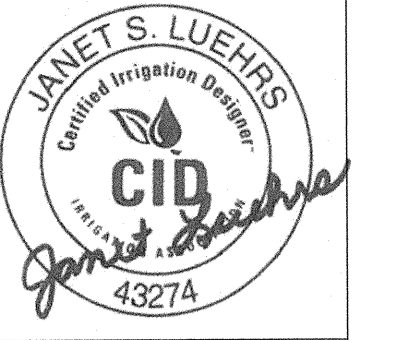


KEY MAP



N.T.S.

FOR IRRIGATION LEGEND AND NOTES SEE SHEET 64



City of Santa Rosa

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
 IRRIGATION PLAN
 CONTRACT NO. CO2300
 SHEET 100 OF 139
 FILE NO. 2020-0011

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 Date: 05/14/2021 10:05:47 AM



CITY OF
 SANTA ROSA
 LANDSCAPE WATER USE STATEMENT

PROJECT NAME: FIRE DAMAGED ROADWAYS
PROJECT ADDRESS: FOUNTAIN GROVE AND COFFEY
PREPARED BY: JANET LUEHRS (CID, CLIA #43274)
 BROOKWATER INC., IRRIGATION CONSULTANTS
 480 SAINT JOHN STREET, SUITE 220
 PLEASANTON, CA 94566
 925-855-0417
 925-855-0357 (FAX)
 Janet@Brookwater.com (e-mail)

"I have complied with the criteria of the Water Efficient Landscape Ordinance and applied them accordingly for the efficient use of water in the irrigation design plan."

Signed: *Janet Luehrs*

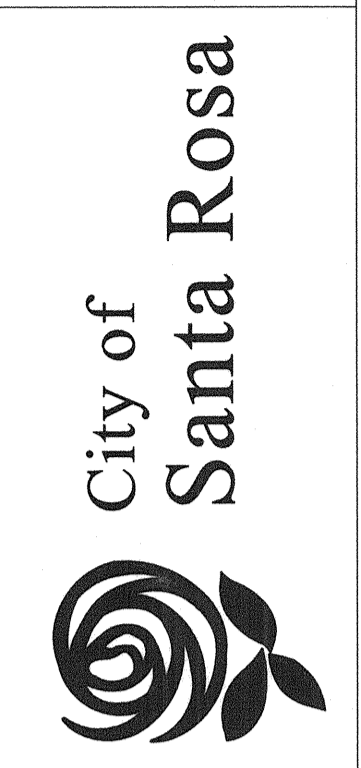
HYDROZONE SUMMARY

*Hydrozone Description	Total Sq. Ft.	% of Landscape
Cool Season Turf (CST)	0	0.0%
Warm Season Turf (WST)	0	0.0%
High Water Use Plants (HW)	0	0.0%
Bioretention Plants (BR)	0	0.0%
Medium Water Use Plants (MW)	7,706	1.9%
Low Water Use Plants (LW)	389,938	98.1%
Very Low Water Use Plants (VLW)	0	0.0%
Water Feature	0	0.0%
Special Landscape Area (SLA)	0	0.0%
TOTAL	397,644	100.0%

**Irrigation Method	Total Sq. Ft.	% of Landscape
Rotor (FC-R, PC-R)	0	0.0%
Multi-Stream Rotator (MR)	0	0.0%
Spray (S)	0	0.0%
Bubbler (B)	265,370	66.7%
Drip (D)	0	0.0%
In-Line Drip (DL)	132,274	33.3%
Micro Spray (MS)	0	0.0%
Other (O)	0	0.0%

PART ONE		MAXIMUM APPLIED WATER ALLOWANCE (MAWA)
<small>MAWA = ETo x .62 x [(ETAFx HA) + ((1-ETAF) x SLA)]</small>		
YEARLY ETo		42.0
CONVERSION FACTOR		0.62
ETAF		0.45
TOTAL IRRIGATED LANDSCAPE AREA (HA)		397,644 SQUARE FEET
SPECIAL LANDSCAPE AREA (SLA)		0 SQUARE FEET
LANDSCAPE WATER ALLOWANCE		4,659,592.39 GALLONS PER YEAR
TOTAL ACRE FEET		14.30 ACRE FEET

PART TWO		ESTIMATED TOTAL WATER USE (ETWU)
<small>(AVERAGE ETAF AND ETWU FROM WATER EFFICIENT LANDSCAPE WORKSHEET)</small>		
AVERAGE ETAF FOR REGULAR LANDSCAPE AREAS <small>(TOTAL ETAF x AREA / TOTAL AREA)</small>		0.38
ETWU FOR REGULAR LANDSCAPE AREAS		3,884,602 GALLONS PER YEAR
SITE WIDE ETAF		0.38
ETWU FOR ALL LANDSCAPE AREAS		3,884,602 GALLONS PER YEAR
TOTAL ACRE FEET		11.92 ACRE FEET



NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: JL
DWN BY: JB		

CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
WATER USE CALCULATIONS
 CONTRACT NO. CO2300
 SHEET 101 OF 139
 FILE NO. 2020-0011

File Path: S:\Client Files\California Projects\Santa Rosa Fire Damaged Roadway Landscaping\1005_SHEETS\1005_SHEETS.rvt ALDing PLO Date: 5/14/21 5:04 PM
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Reference Evapotranspiration (Eto) 42

WATER EFFICIENT LANDSCAPE WORKSHEET

Table with columns: ZONE NO., PLANT TYPE, HYDROZONE*, PLANT FACTOR (PF), IRRIGATION METHOD**, IRRIGATION EFFICIENCY (IE), ETAF (PF/IE), HYDROZONE AREA (HA) (Sq Ft), ETAF x HA, ESTIMATED TOTAL WATER USE (ETWU), % LANDSCAPE AREA. Includes rows for REGULAR LANDSCAPE AREA (A-1 to I-20) and SPECIAL LANDSCAPE AREA (empty).

Reference Evapotranspiration (Eto) 42

WATER EFFICIENT LANDSCAPE WORKSHEET

Table with columns: ZONE NO., PLANT TYPE, HYDROZONE*, PLANT FACTOR (PF), IRRIGATION METHOD**, IRRIGATION EFFICIENCY (IE), ETAF (PF/IE), HYDROZONE AREA (HA) (Sq Ft), ETAF x HA, ESTIMATED TOTAL WATER USE (ETWU), % LANDSCAPE AREA. Includes rows for REGULAR LANDSCAPE AREA (J1-1 to N2-4), SPECIAL LANDSCAPE AREA (empty), and TOTALES for Regular and Special areas.

Summary table for TOTALES (REGULAR LANDSCAPE AREAS), SPECIAL LANDSCAPE AREA, and TOTALES FOR ALL AREAS, showing total water use and landscape area percentages.

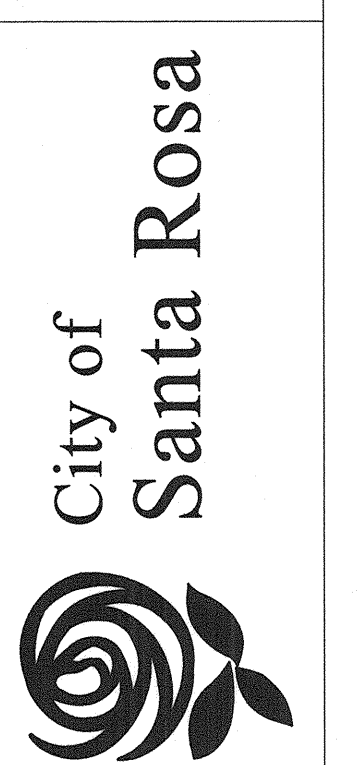
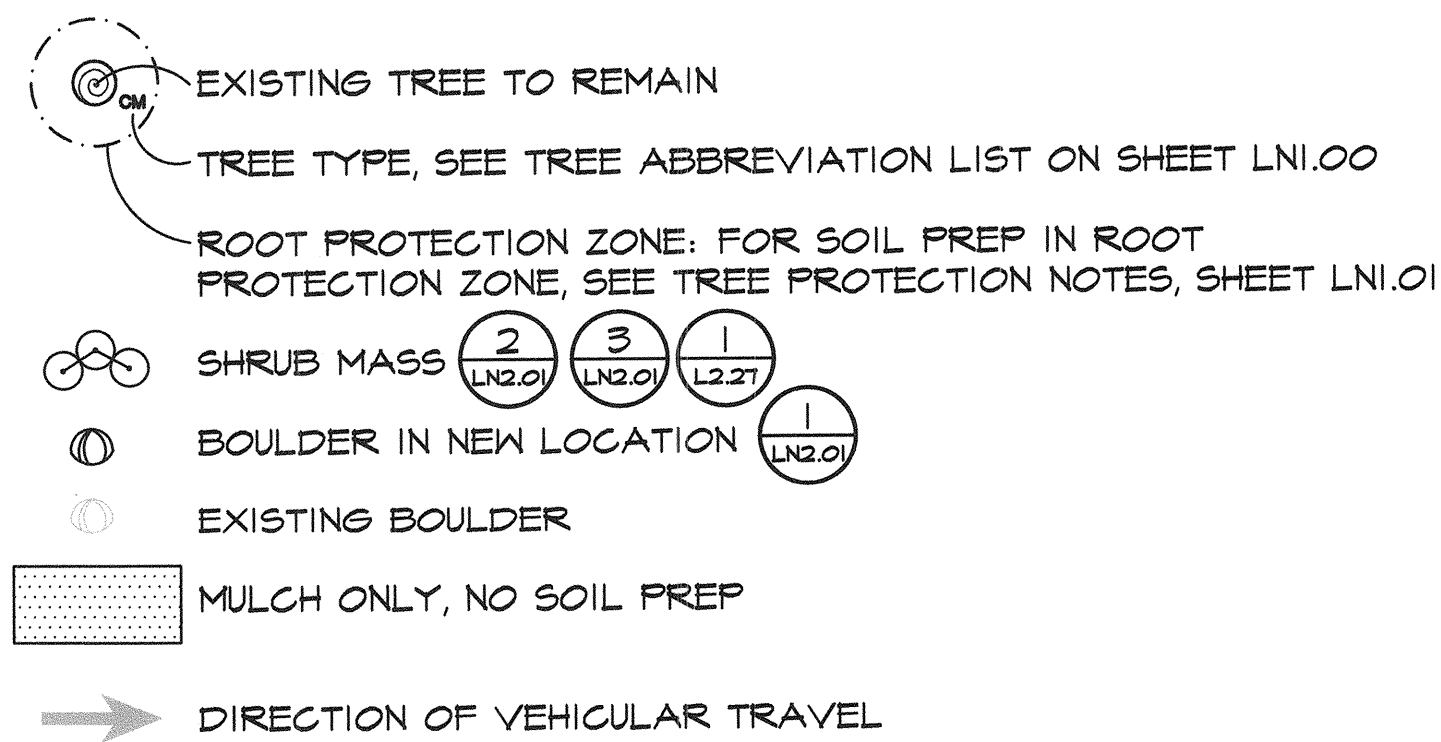


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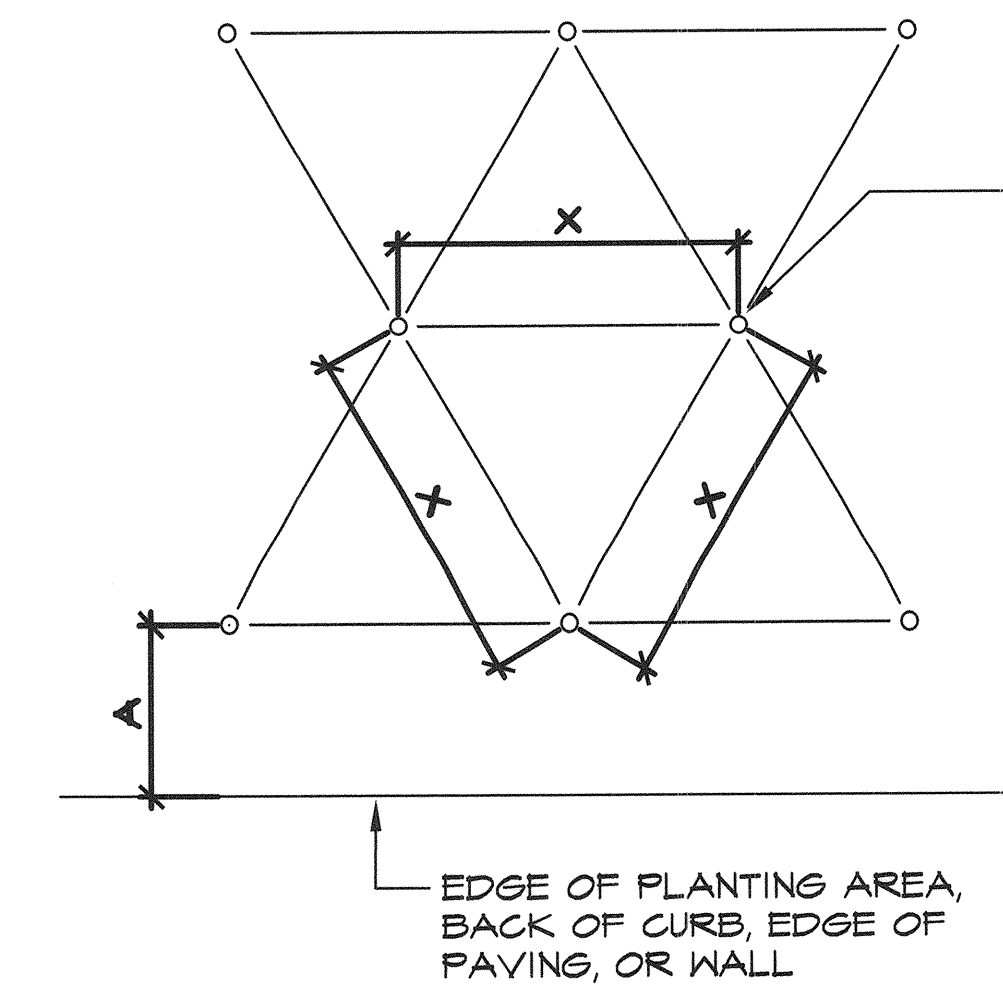
Vertical text and logo area including CITY OF SANTA ROSA, FIRE DAMAGED ROADWAY LANDSCAPING, WATER USE CALCULATIONS, and project identification numbers.

PLANT LEGEND



PLANTING NOTES

- MULCH:** INSTALL A MINIMUM THREE INCH COVERING OF MULCH IN ALL AREAS AND AREAS THAT WERE CLEAR AND GRUBBED, SEE SHEET LNI.00 NOTE #1, PER SPECIFICATIONS. INSTALL 5" DEPTH WHERE PLANT SPACING IS GREATER THAN OR EQUAL TO FOUR FEET. TAPER TO THREE INCHES ADJACENT TO PAVEMENT/CURBS, WITHIN PLANT PITS, AND AT THE TRUNKS OF TREES. PROVIDE JUTE NETTING PER DETAIL (3) (LN2.01)
- EXISTING PLANT MATERIAL:** PROTECT ALL EXISTING PLANT MATERIAL TO REMAIN. REPAIR ANY DAMAGES INCURRED AS A DIRECT RESULT OF THIS CONTRACT TO THE CITY'S SATISFACTION AT NO ADDITIONAL COST.
- SHRUB AREAS:** PROVIDE PLANTS AT INDICATED ON-CENTER SPACING THROUGHOUT ALL AREAS TO BE PLANTED. SHRUBS SHALL BE PROVIDED TO WITHIN SIX FEET OF NEWLY PLANTED TREES, TO THE ROOT PROTECTION ZONE OF EXISTING TREES, AND SPACED FROM CURBS AND SIDEWALKS PER DETAIL (1) (LN2.00)
- QUANTITIES:** THE QUANTITIES SHOWN ON THE LABELS ARE NOT TO BE CONSTRUED AS THE COMPLETE AND ACCURATE LIMITS OF THE CONTRACT. FURNISH AND INSTALL ALL PLANTS SHOWN SCHEMATICALLY ON THE DRAWINGS.
 PLANTING SHALL BE SPACED AS NOTED IN PLANT SCHEDULE, UNLESS OTHERWISE SHOWN ON PLAN. SEE PLANTING NOTE #4 AND PER DETAIL (1) (LN2.22)
- SOILS TESTING:** SEE SPECIFICATIONS FOR TESTING OF TOPSOIL AND AMENDMENTS. CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR TESTING PRIOR TO CONSTRUCTION.
- FIELD CONDITIONS:** REFER TO GENERAL REQUIREMENT NOTE #2. PLANTING LAYOUT WILL REQUIRE ADJUSTMENT TO FIELD CONDITIONS. REFER TO 1/LN2.00 AND 6/LN2.01 FOR PLANT LAYOUT GUIDELINES.

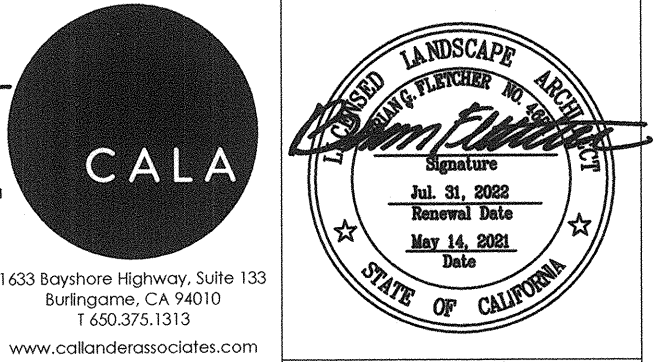


1 SHRUB SPACING PLAN

N.T.S.
 02430 Groundcover Spacing 48.dwg

PLANT SCHEDULE

TREES	BOTANICAL / COMMON NAME	FORM	SIZE	WUCOLS	SPACING	HEIGHT X WIDTH
AGO AFT	AGONIS FLEXUOSA 'AFTERDARK' / BLACK PEPPERMINT TREE	LOW BRANCHING	15 GAL	L	PER PLAN	15'-25' X 10'-15'
ARB HYB	ARBUTUS X 'MARINA' / ARBUTUS STANDARD	STANDARD	24" BOX	L	PER PLAN	20'-40' X 20'-30'
CER OCC	CERCIS OCCIDENTALIS / WESTERN REDBUD	MULTI-TRUNK	15 GAL	L	PER PLAN	10'-18' X 10'-18'
CHI RET	CHIONANTHUS RETUSUS / CHINESE FRINGE TREE	STANDARD	24" BOX	M	PER PLAN	15'-20' X 10'-15'
LAG TUS	LAGERSTROEMIA X 'TUSCARORA' / GRAPE MYRTLE CORAL PINK	STANDARD	24" BOX	L	PER PLAN	15'-20' X 15'-20'
LAG MUL	LAGERSTROEMIA X 'MUSKOGEE' / LAVENDER GRAPE MYRTLE	STANDARD	15 GAL	L	PER PLAN	15'-20' X 15'-20'
PIS CHI	PISTACIA CHINENSIS / CHINESE PISTACHE	STANDARD	24" BOX	L	PER PLAN	25'-35' X 25'-35'
QUE KEL	QUERCUS KELLOGGII / CALIFORNIA BLACK OAK	STANDARD	15 GAL	L	PER PLAN	30'-70' X 30'-50'
QUE WIS	QUERCUS WISLIZENII / INTERIOR LIVE OAK	STANDARD	15 GAL	L	PER PLAN	30'-70' X 30'-70'
ULM ELM	ULMUS PROPINQUA 'EMERALD SUNSHINE' / EMERALD SUNSHINE ELM	STANDARD	15 GAL	L	PER PLAN	25'-35' X 15'-25'
ZEL MUS	ZELKOVA SERRATA 'MUSASHINO' / SAWLEAF ZELKOVA	STANDARD	24" BOX	M	PER PLAN	35'-45' X 15'
SHRUBS	BOTANICAL / COMMON NAME	SIZE	WUCOLS	SPACING*	HEIGHT X WIDTH	
ARC GRE	ARCTOSTAPHYLOS UVA-URSI 'GREEN SUPREME' / GREEN SUPREME BEARBERRY	1 GAL	L	96" O.C.	1' X 8'-12'	
ARC EME	ARCTOSTAPHYLOS X 'EMERALD CARPET' / EMERALD CARPET MANZANITA	1 GAL	M	42" O.C.	6"-1' X 3'-5'	
BER AQU	BERBERIS REPENS / CREEPING BARBERRY	1 GAL	L	42" O.C.	2' X 4'-6'	
CEA YAN	CEANOTHUS GRISAEUS HORIZONTALIS 'YANKEE POINT' / YANKEE POINT CALIFORNIA LILAC	1 GAL	L	96" O.C.	2'-3' X 8'-10'	
CHO TEC	CHONDROPETALUM TECTORUM / CAPE RUSH	1 GAL	L	48" O.C.	2'-3' X 3'-4'	
CIS PRO	CISTUS SALVIFOLIUS 'PROSTRATUS' / SAGELEAF ROCKROSE	1 GAL	L	60" O.C.	1'-2' X 4'-6'	
CIS SUN	CISTUS X PULVERULENTUS 'SUNSET' / SUNSET ROCKROSE	1 GAL	L	72" O.C.	2'-3' X 6'-8'	
COL PUL	COLEONEMA PULCHELLUM 'SUNSET GOLD' / BREATH OF HEAVEN	1 GAL	M	60" O.C.	2' X 4'-6'	
COP VAR	COPROSMA KIRKII 'VARIEGATA' / CREEPING MIRROR PLANT	1 GAL	L	54" O.C.	1'-2' X 4'-6'	
COR CAR	CORREA REFLEXA 'CAPE CARPET' / AUSTRALIAN FUCHSIA	1 GAL	L	84" O.C.	2' X 5'-10'	
COR DUS	CORREA X 'DUSKY BELLS' / PINK AUSTRALIAN FUCHSIA	1 GAL	L	48" O.C.	2'-3' X 3'-6'	
ERE MIN	EREMOPHILA GLABRA 'MINGENEW GOLD' / EMU BUSH	5 GAL	L	96" O.C.	1' X 6'-12'	
GAR JAM	GARRYA ELLIPTICA 'JAMES ROOF' / COAST SILK TASSEL	5 GAL	L	96" O.C.	12'-15' X 12'-15'	
GRE COA	GREVILLEA LANIGERA 'COASTAL GEM' / COASTAL GEM GREVILLEA	1 GAL	L	60" O.C.	1'-2' X 4'-6'	
HET ARB	HETEROMELES ARBUTIFOLIA / TOYON	5 GAL	L	72" O.C.	6'-10' X 6'-8'	
MUH RIG	MUHLENBERGIA RIGENS / DEER GRASS	1 GAL	L	48" O.C.	4' X 4'	
PHL LAN	PHLOMIS LANATA / JERUSALEM SAGE	1 GAL	L	48" O.C.	1'-2' X 4'-6'	
SAL MRS	SALVIA X 'MRS. BEARD' / SAGE	1 GAL	L	60" O.C.	1'-6"-2' X 4'-6'	
SHRUB AREAS	BOTANICAL / COMMON NAME	SIZE	WUCOLS	SPACING	HEIGHT X WIDTH	
[Pattern]	ACHILLEA X 'MOONSHINE' / MOONSHINE YARROW	1 GAL	L	24" O.C.	2' X 2'	
[Pattern]	BOUTELOUA GRACILIS 'BLONDE AMBITION' / BLONDE AMBITION BLUE GRAMA	1 GAL	L	24" O.C.	1'-2' X 1'-2'	
[Pattern]	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	1 GAL	M	36" O.C.	2'-4' X 2'-3'	
[Pattern]	DIETES BIOCOLOR / FORTNIGHT LILY	1 GAL	M	36" O.C.	2'-3' X 3'-4'	
[Pattern]	EPILOBIUM CANUM LATIFOLIUM 'EVERETT'S CHOICE' / EVERETT'S CALIFORNIA FUCHSIA	1 GAL	L	36" O.C.	1' X 2'-4'	
[Pattern]	EPILOBIUM CANUM 'CALISTOGA' / CALIFORNIA FUCHSIA	1 GAL	L	36" O.C.	1' X 4'	
[Pattern]	ERIOGONUM GRANDE VAR. RUBESCENS / RED BUCKWHEAT	1 GAL	L	30" O.C.	1'-2' X 2'-3'	
[Pattern]	ERIOGONUM UMBELLATUM POLYANTHUM 'SHASTA SULFUR' / SHASTA SULFURFLOWER BUCKWHEAT	1 GAL	L	24" O.C.	1'-2' X 2'-3'	
[Pattern]	FESTUCA CALIFORNICA / CALIFORNIA FESCUE	1 GAL	L	30" O.C.	2'-3' X 2'-3'	
[Pattern]	HESPERALOE PARVIFLORA / RED YUCCA	1 GAL	L	36" O.C.	3'-4' X 3'-4'	
[Pattern]	JUNCUS PATENS 'ELK BLUE' / SPREADING RUSH	5 GAL	L	24" O.C.	1'-2' X 1'-2'	
[Pattern]	LOMANDRA LONGIFOLIA 'BREEZE' / BREEZE MAT RUSH	1 GAL	L	36" O.C.	2'-3' X 2'-3'	
[Pattern]	MIMULUS AURANTIACUS / STICKY MONKEY FLOWER	1 GAL	L	36" O.C.	3'-4' X 3'-4'	
[Pattern]	MONARDELLA VILLOSA / COYOTE MINT	1 GAL	L	30" O.C.	2' X 3'	
[Pattern]	TULBAGHIA VOLACEA / SOCIETY GARLIC	1 GAL	L	24" O.C.	1'-3' X 1'-2'	



City of Santa Rosa

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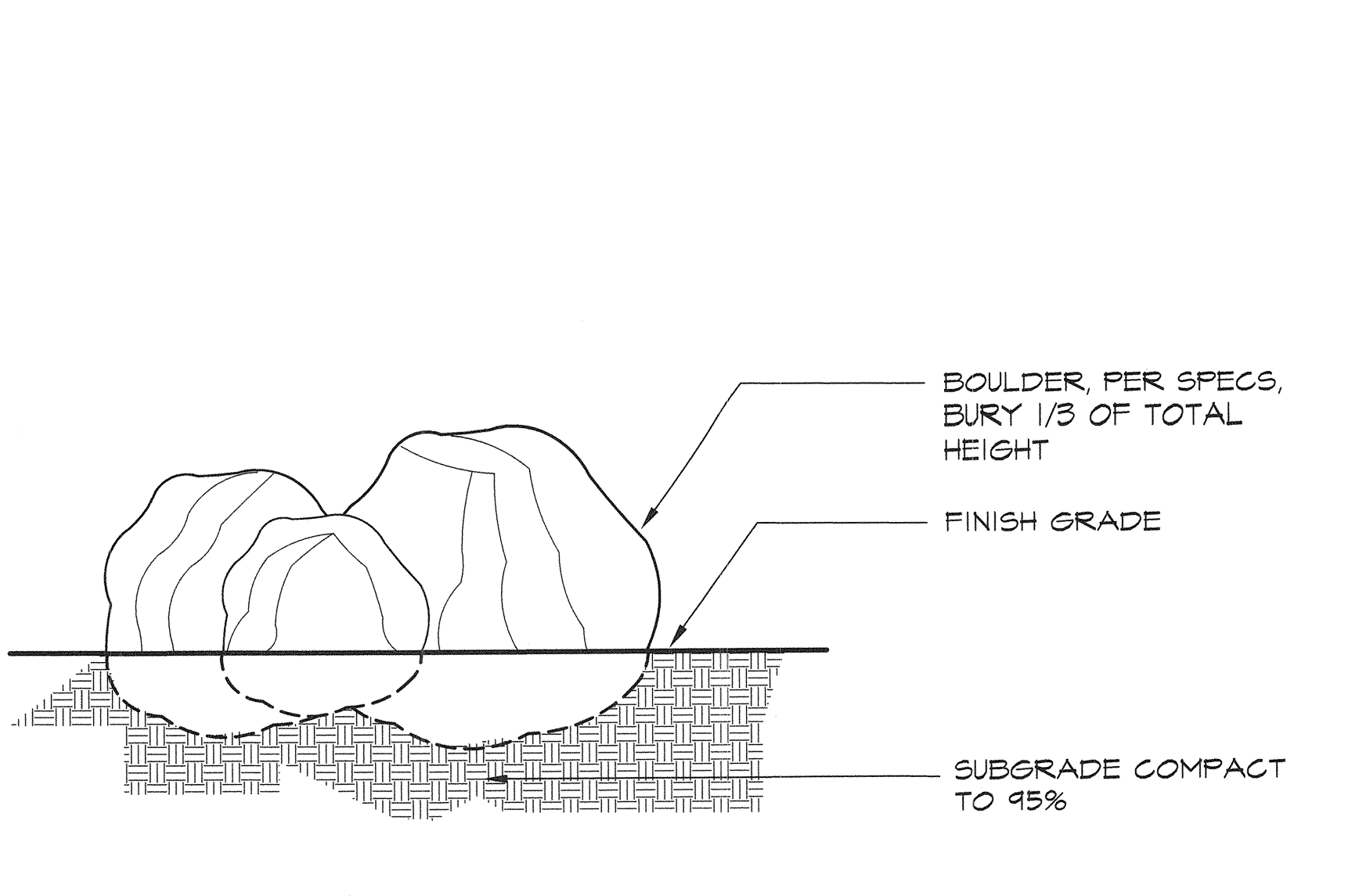
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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING NOTES & LEGEND

CONTRACT NO. C02300
 SHEET 103 OF 139
 FILE NO. 2020-0011

LN2.00

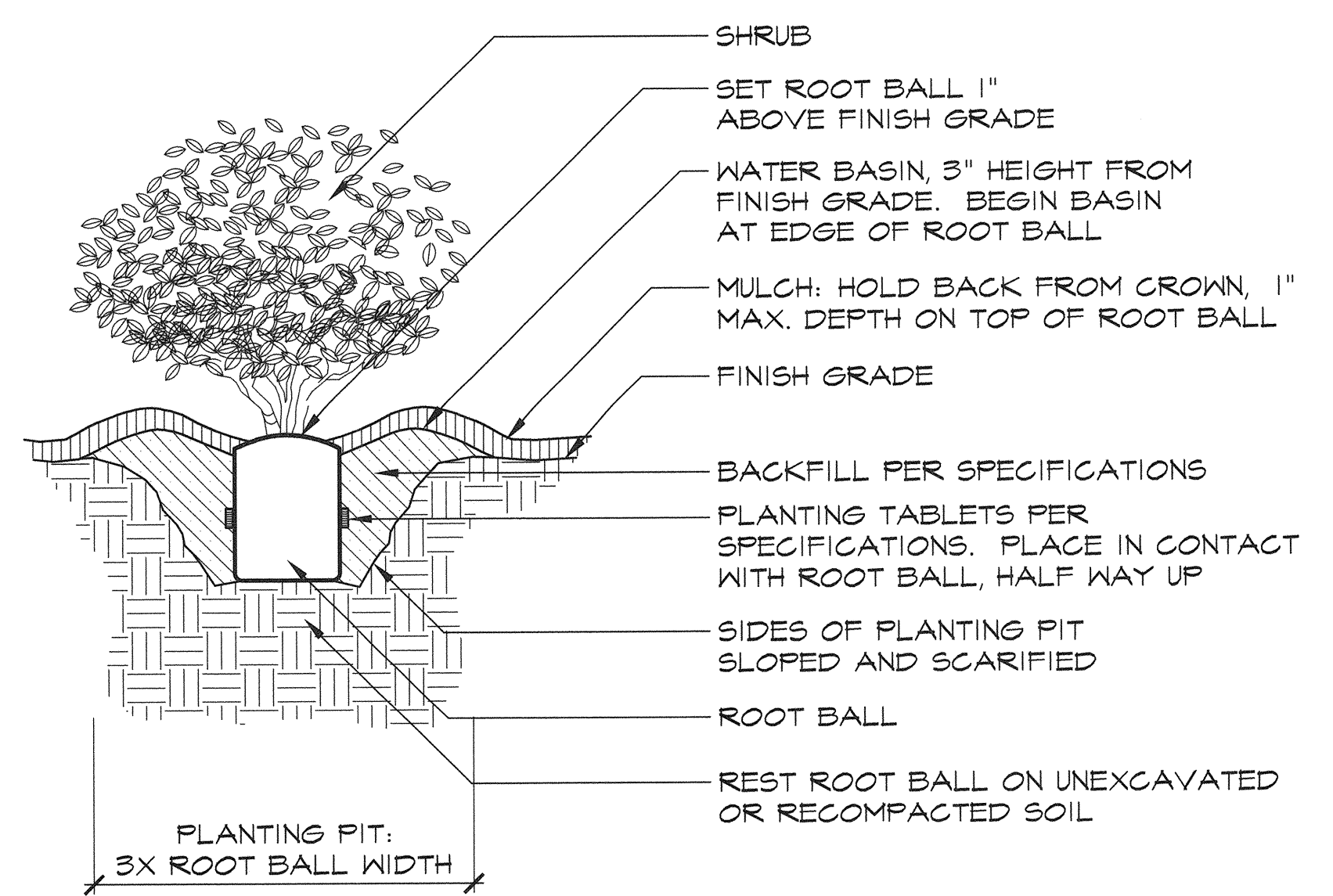
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1 BOULDER PLACEMENT SECTION

 LN2.01

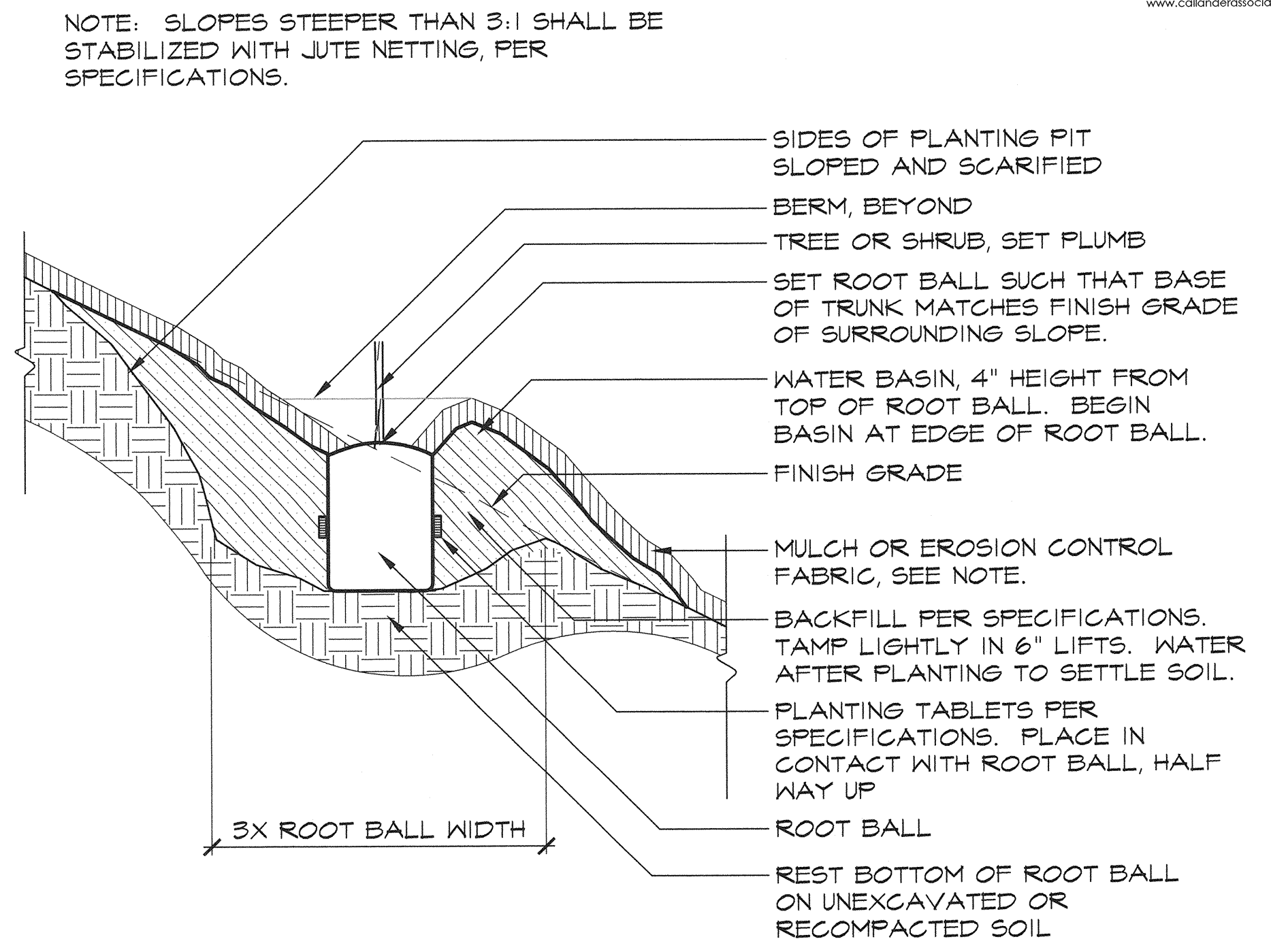
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2 SHRUB PLANTING SECTION

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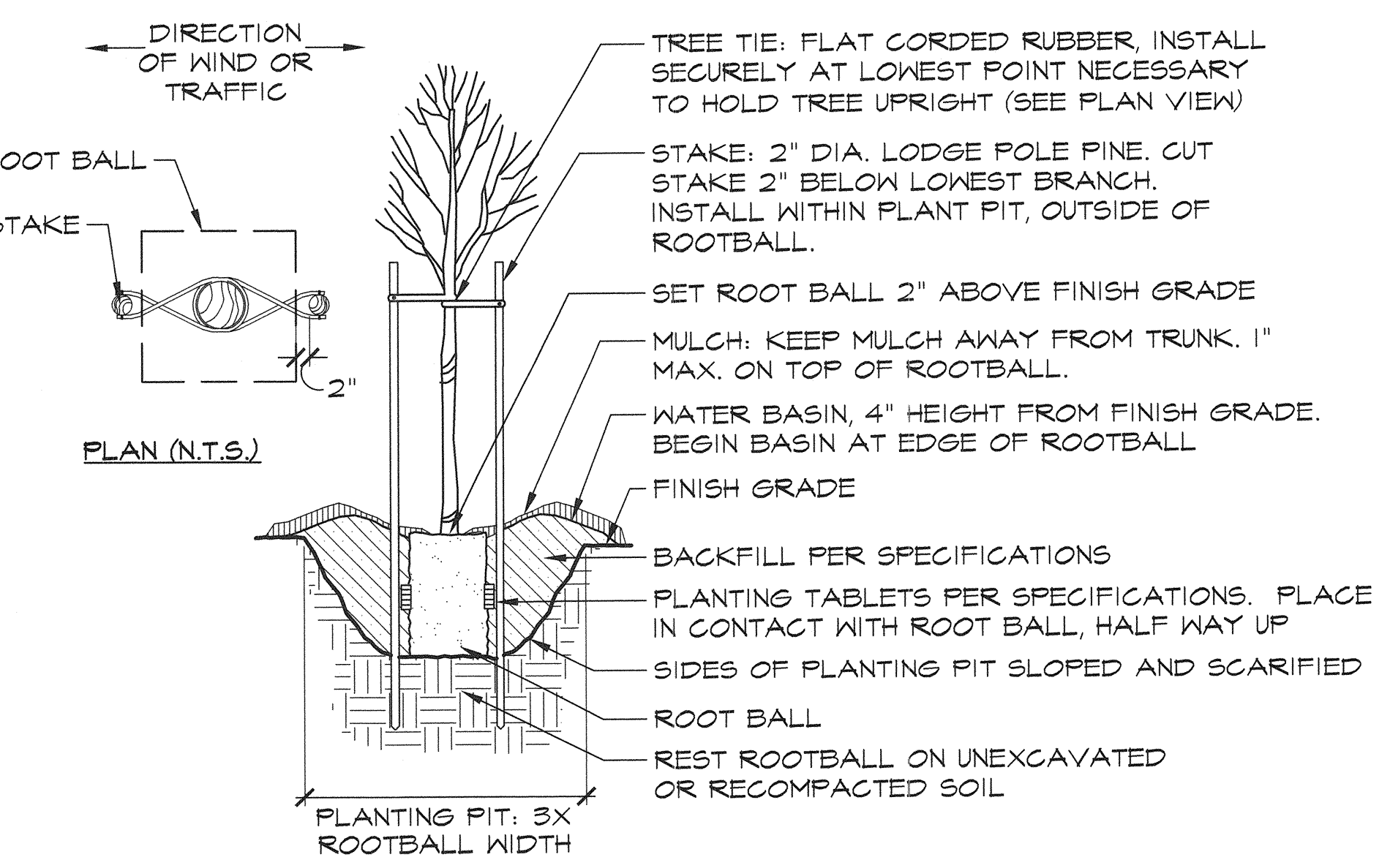
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3 SLOPE PLANTING SECTION

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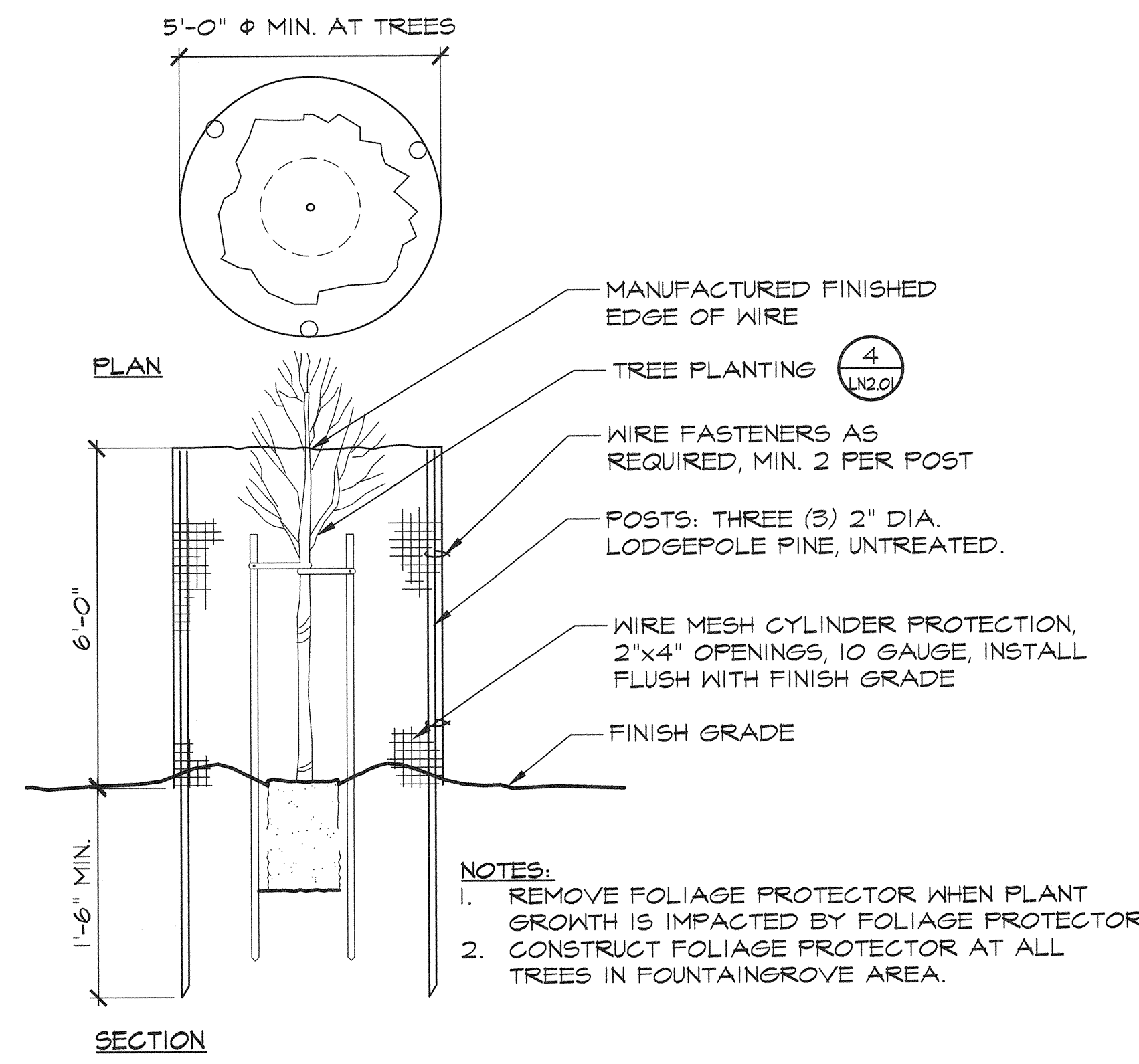
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4 TREE PLANTING SECTION

 LN2.01

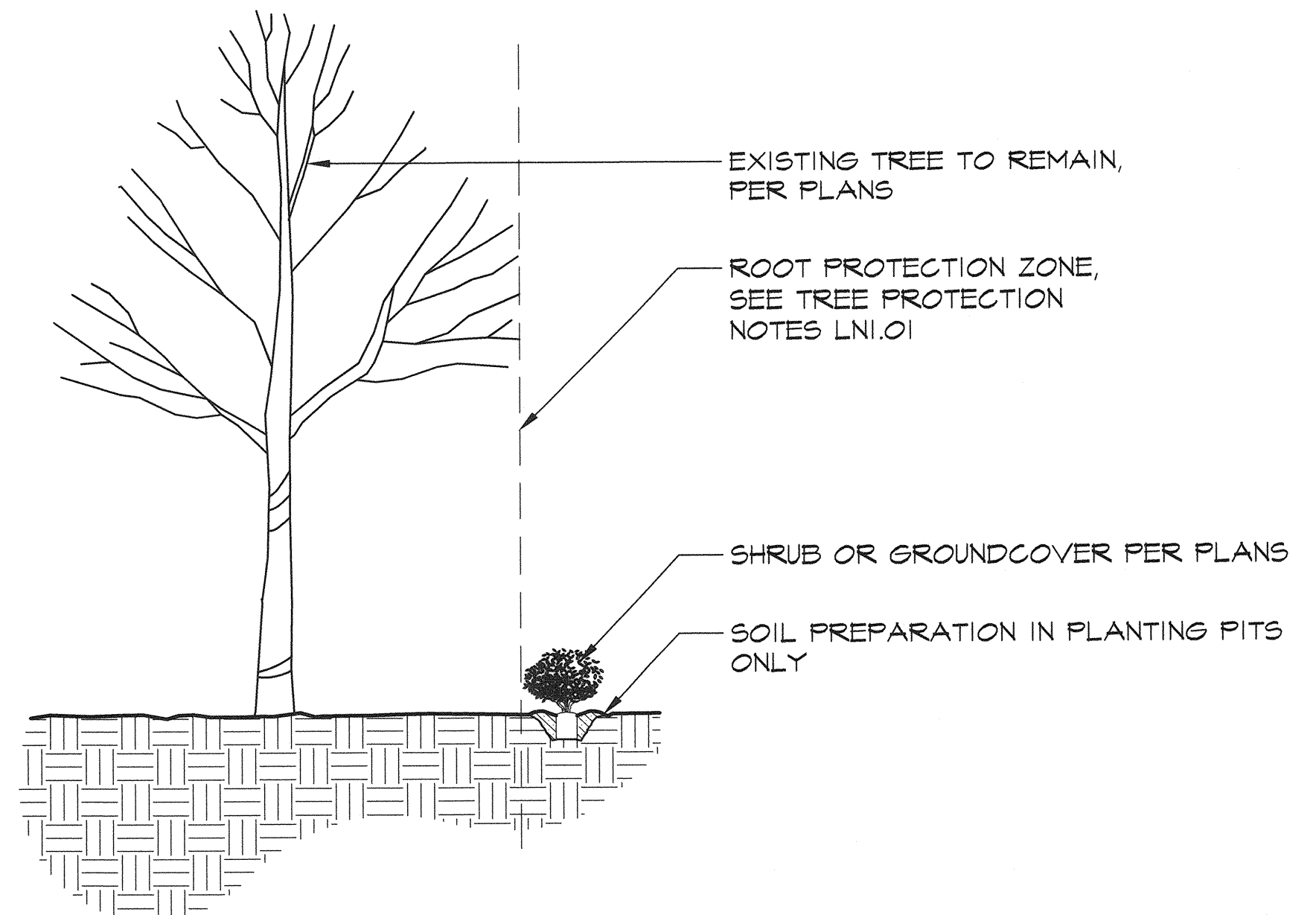
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5 FOLIAGE PROTECTION PLAN / ELEVATION

 LN2.01

 12054_FoliageProtector_1.dwg



6 PLANTING AT EXISTING TREES

 LN2.01

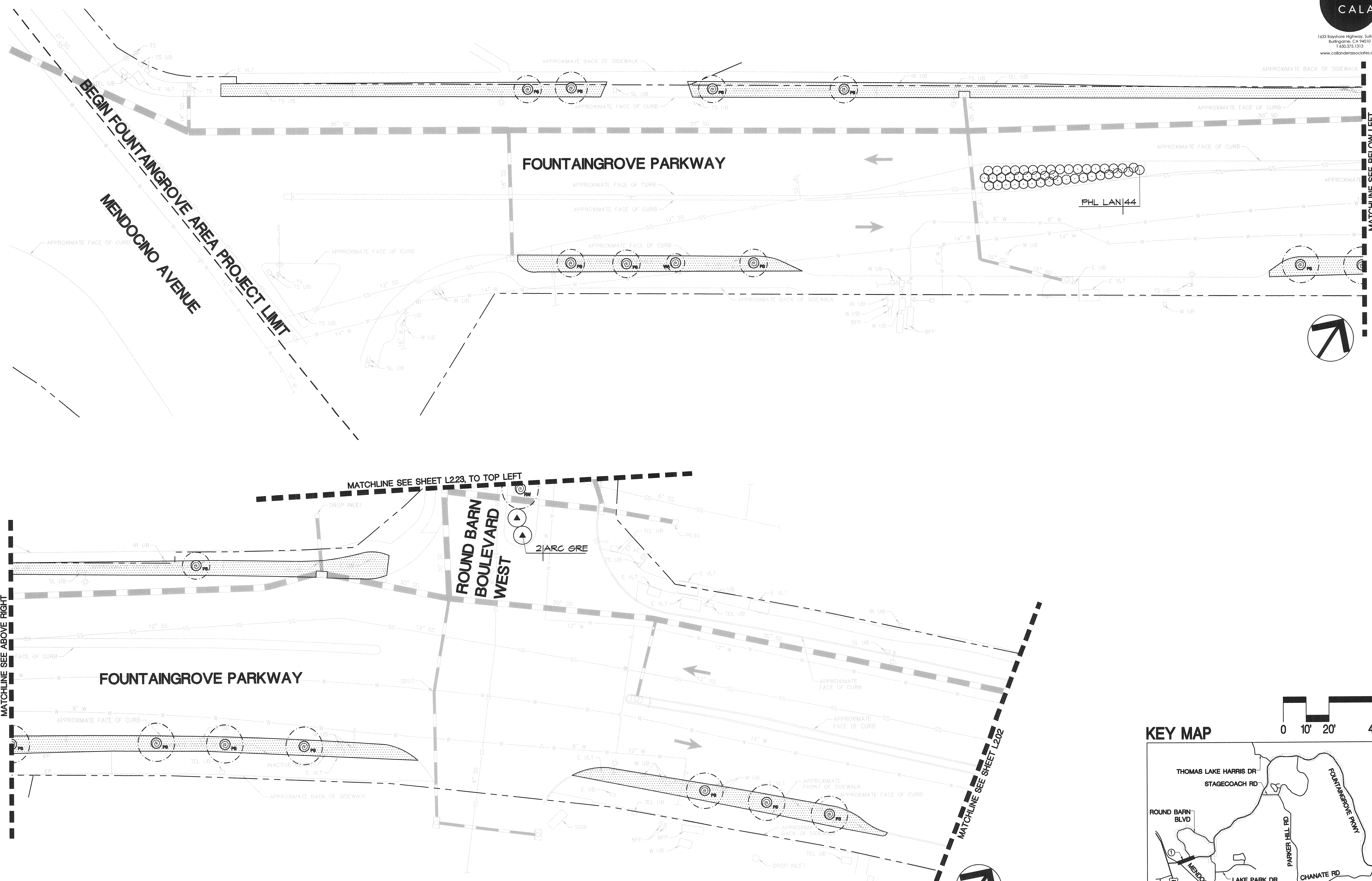
NOTE: SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH JUTE NETTING, PER SPECIFICATIONS.

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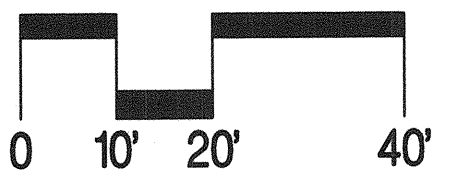
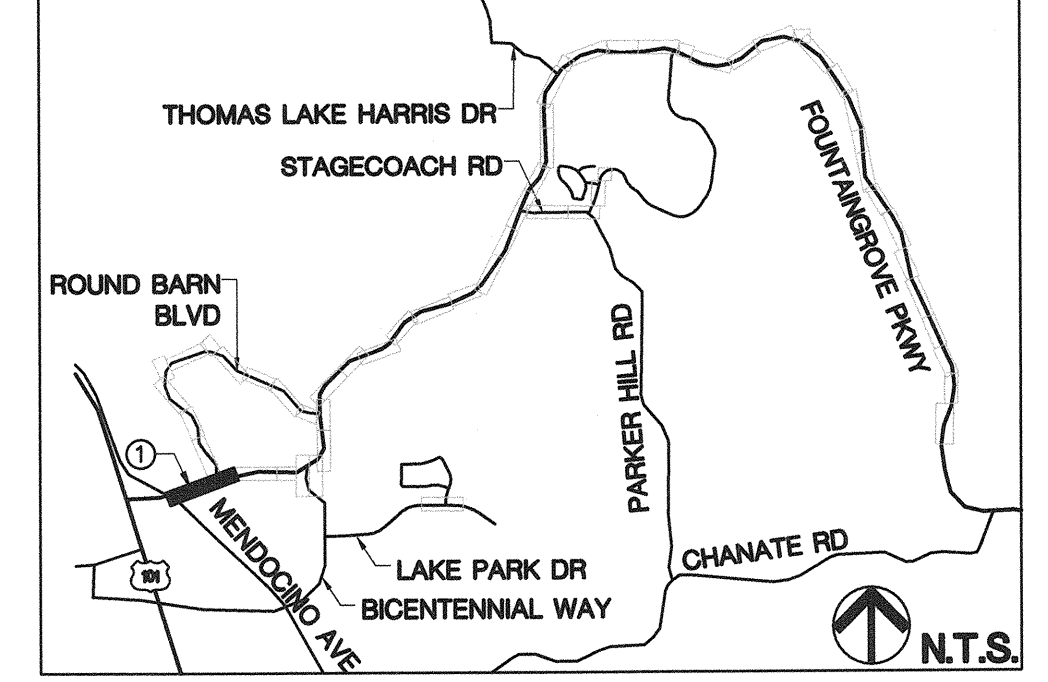
CITY OF SANTA ROSA	CONTRACT NO. C02300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 104 OF 139
PLANTING DETAILS	FILE NO. 2020-0011

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KEY MAP

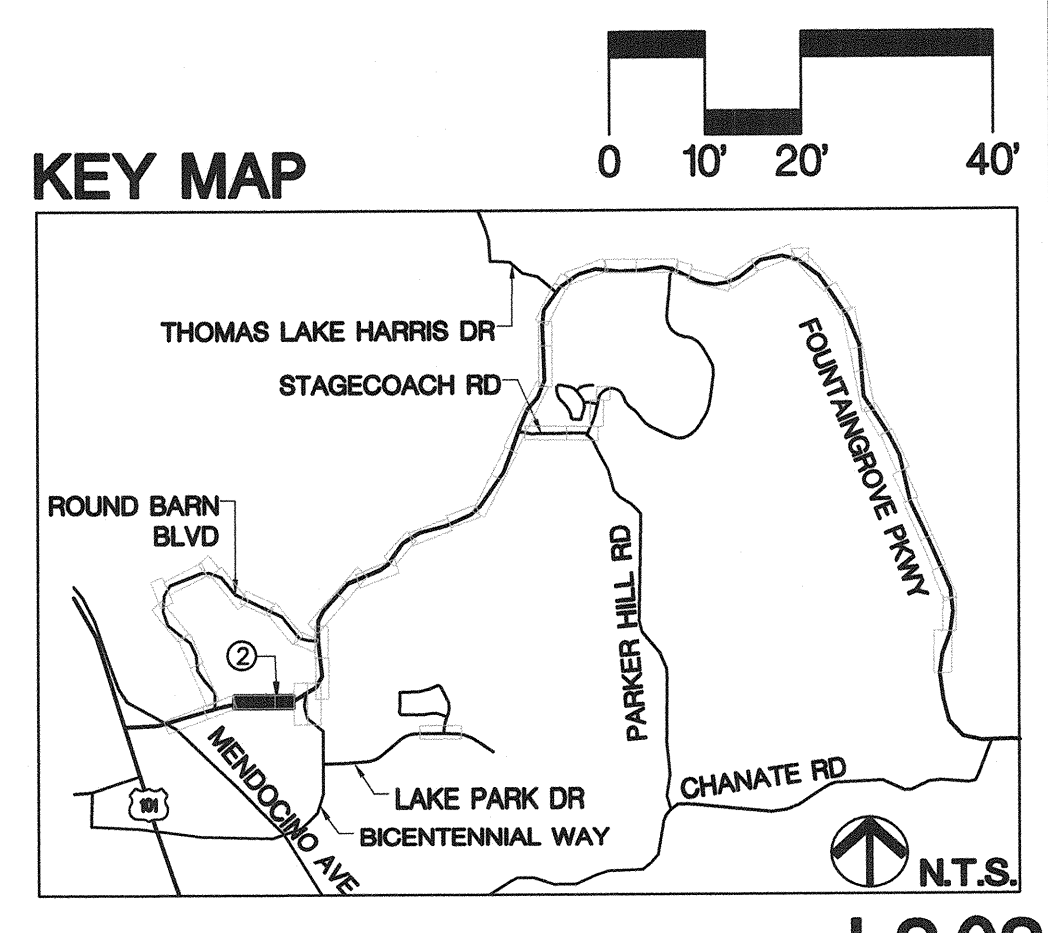
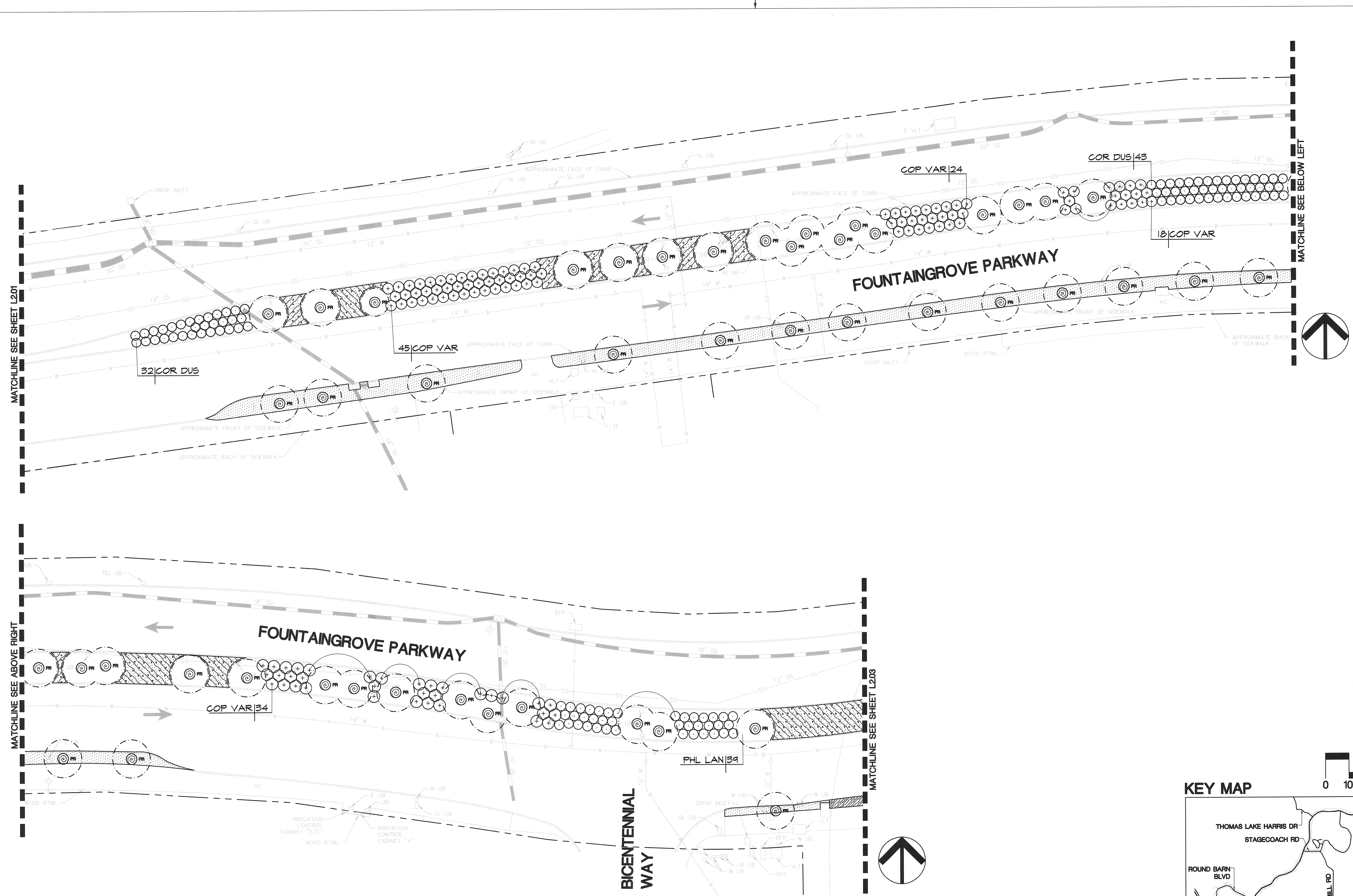


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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 105 OF 139
 FILE NO. 2020-0011
L2.01

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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING

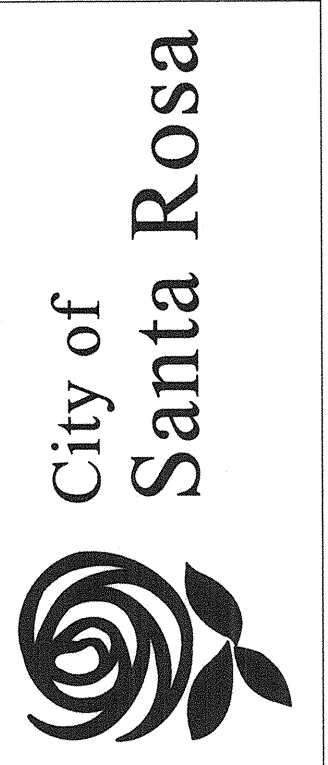
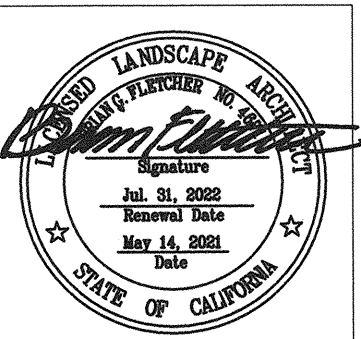
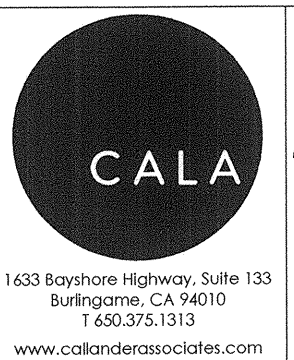
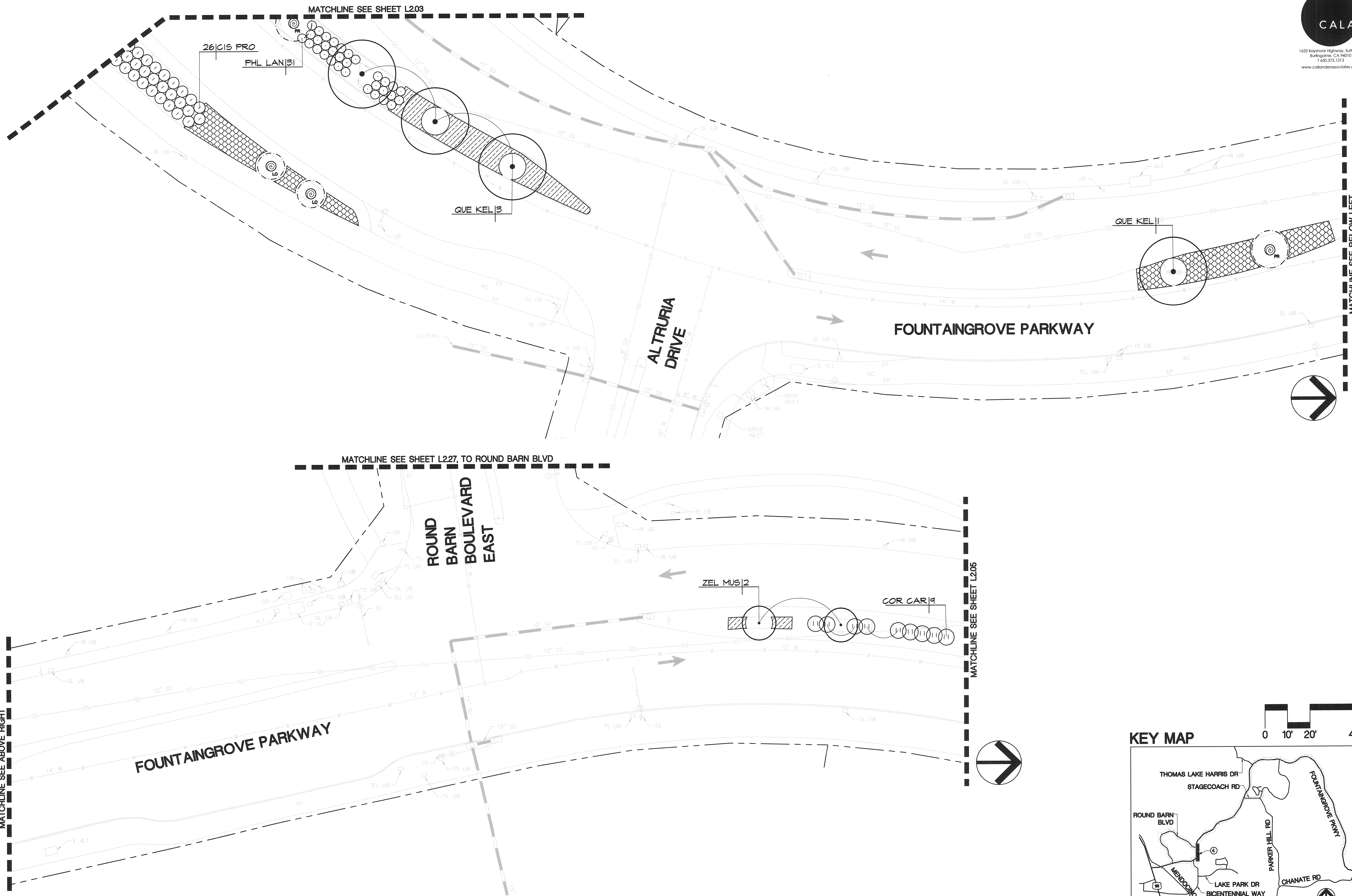
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CONTRACT NO.
 C02300

SHEET 106 OF 139

FILE NO. 2020-0011

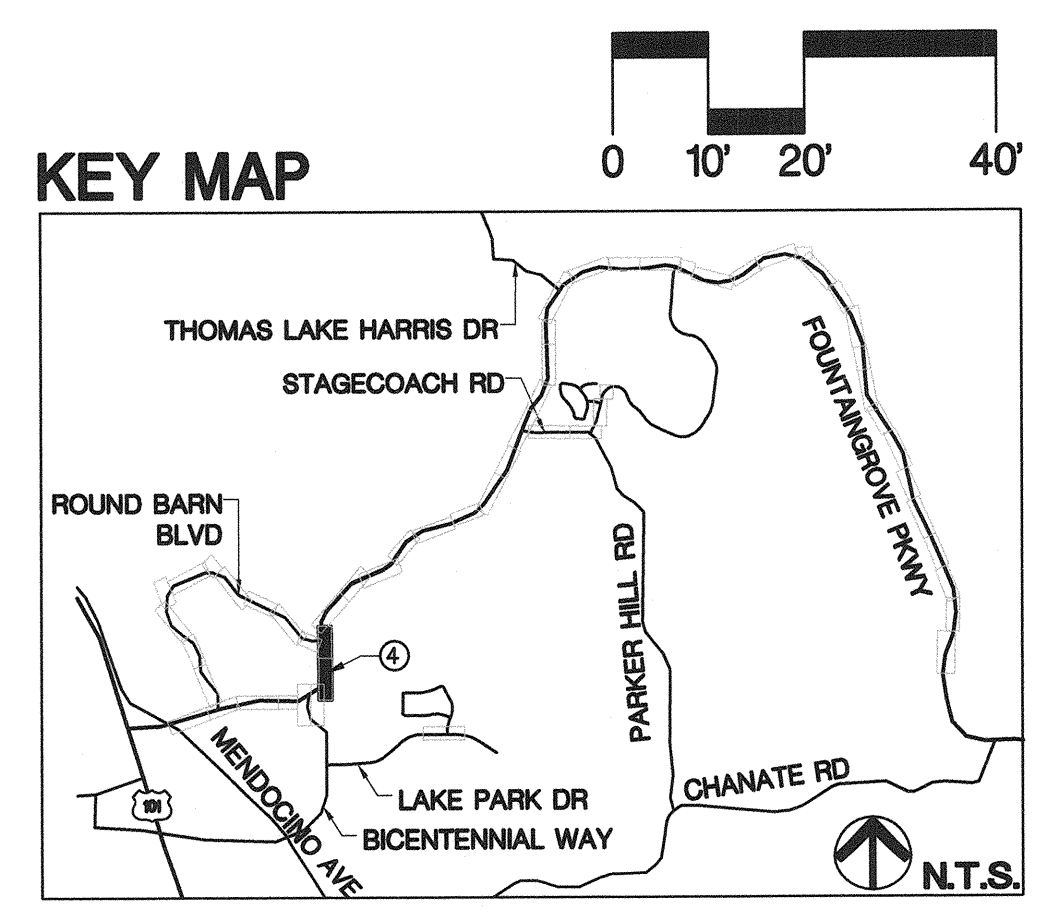
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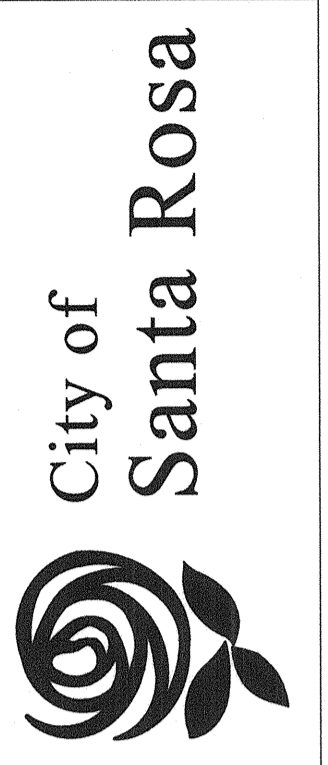
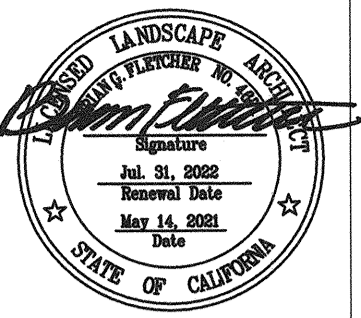
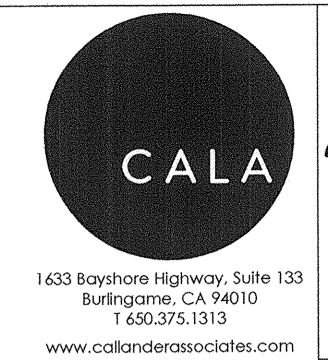
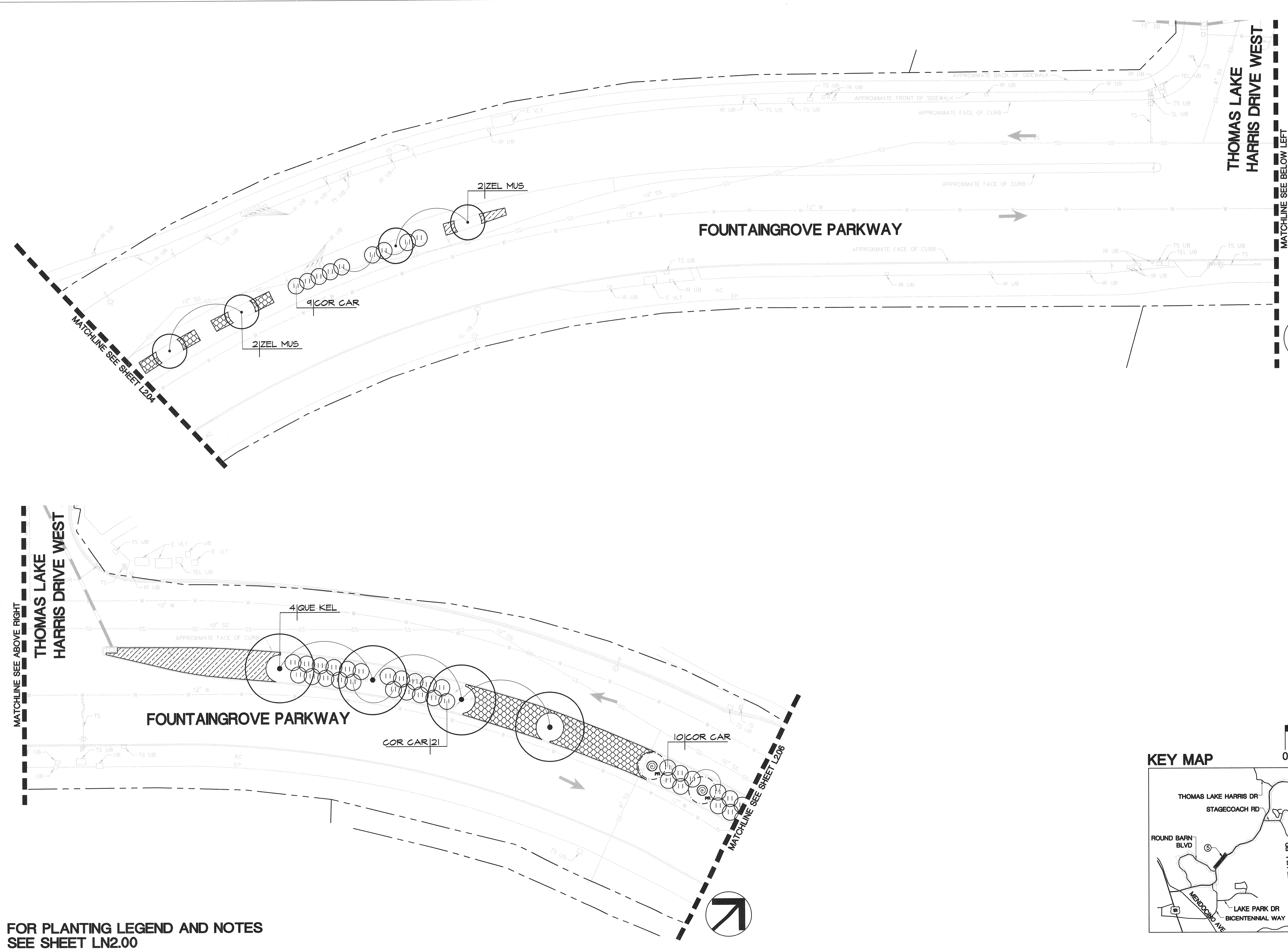
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 108 OF 139
 FILE NO. 2020-0011



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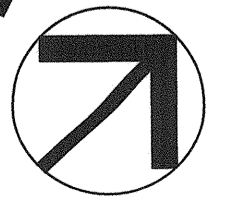
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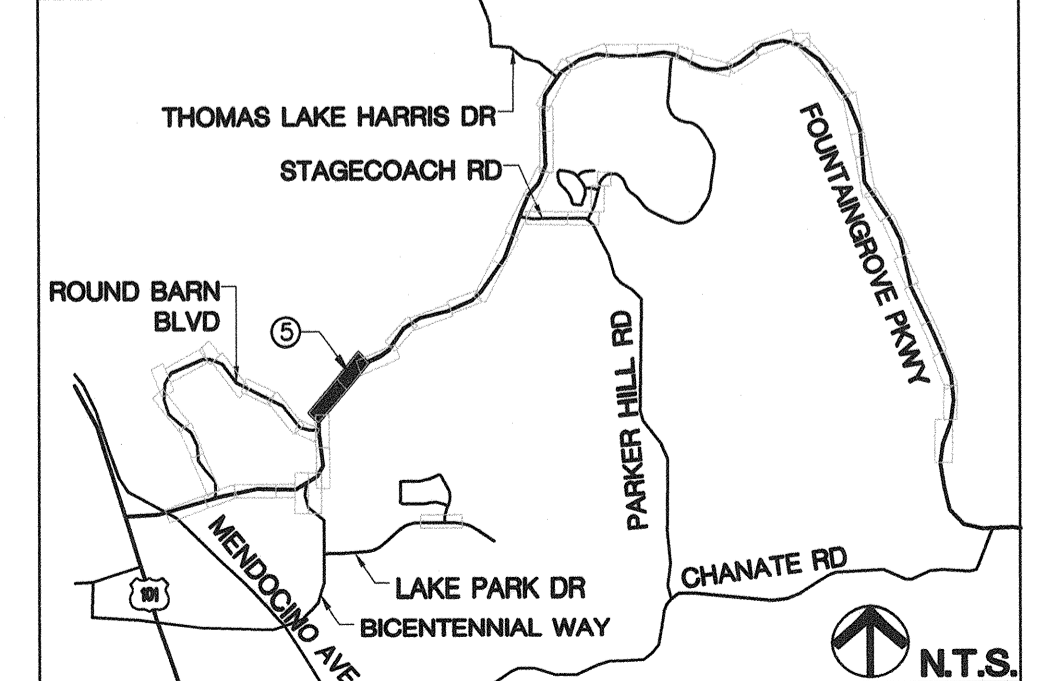


**THOMAS LAKE
 HARRIS DRIVE WEST**
 MATCHLINE SEE BELOW LEFT

MATCHLINE SEE ABOVE RIGHT
**THOMAS LAKE
 HARRIS DRIVE WEST**



KEY MAP

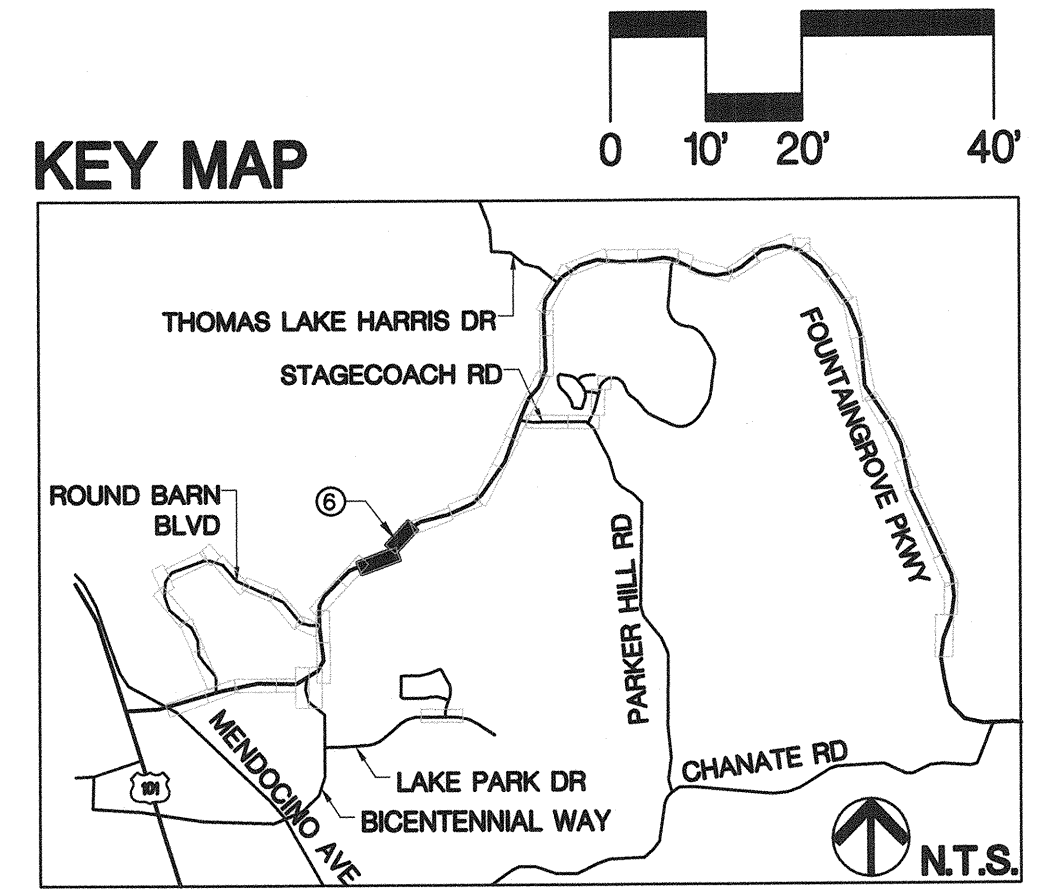
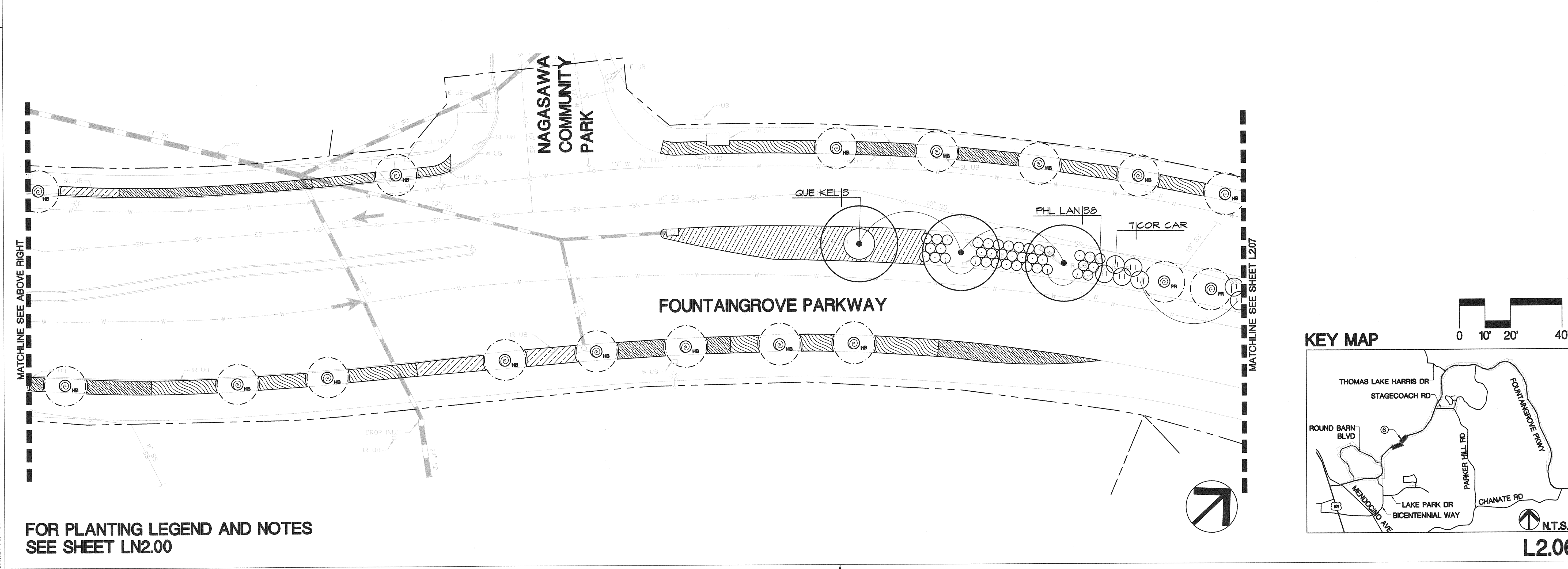
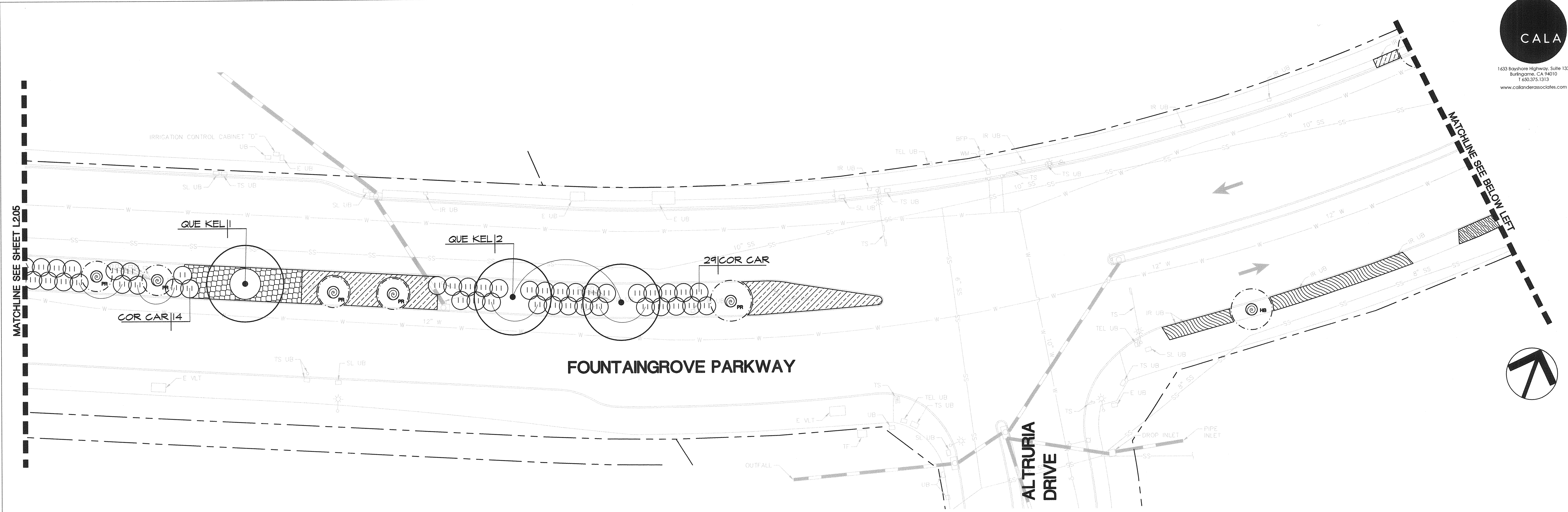


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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 109 OF 139
L2.05
 FILE NO. 2020-0011



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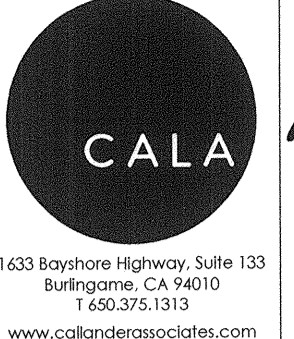
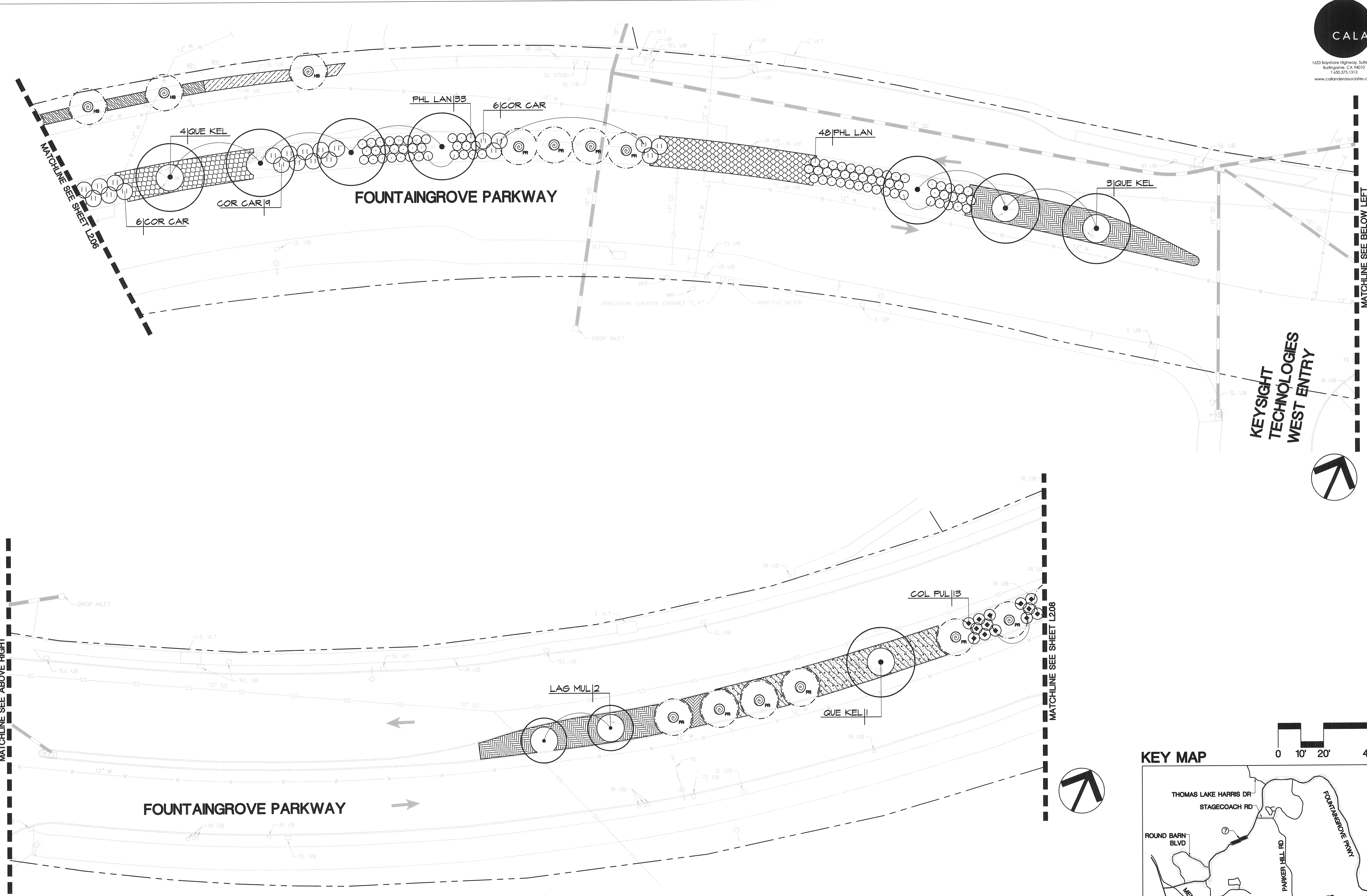
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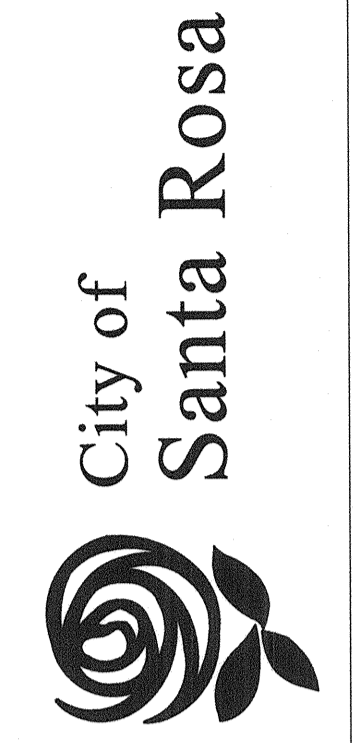
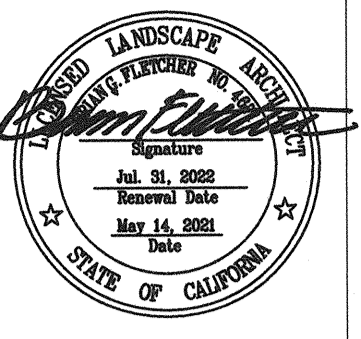
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 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 110 OF 139
L2.06
 FILE NO. 2020-0011

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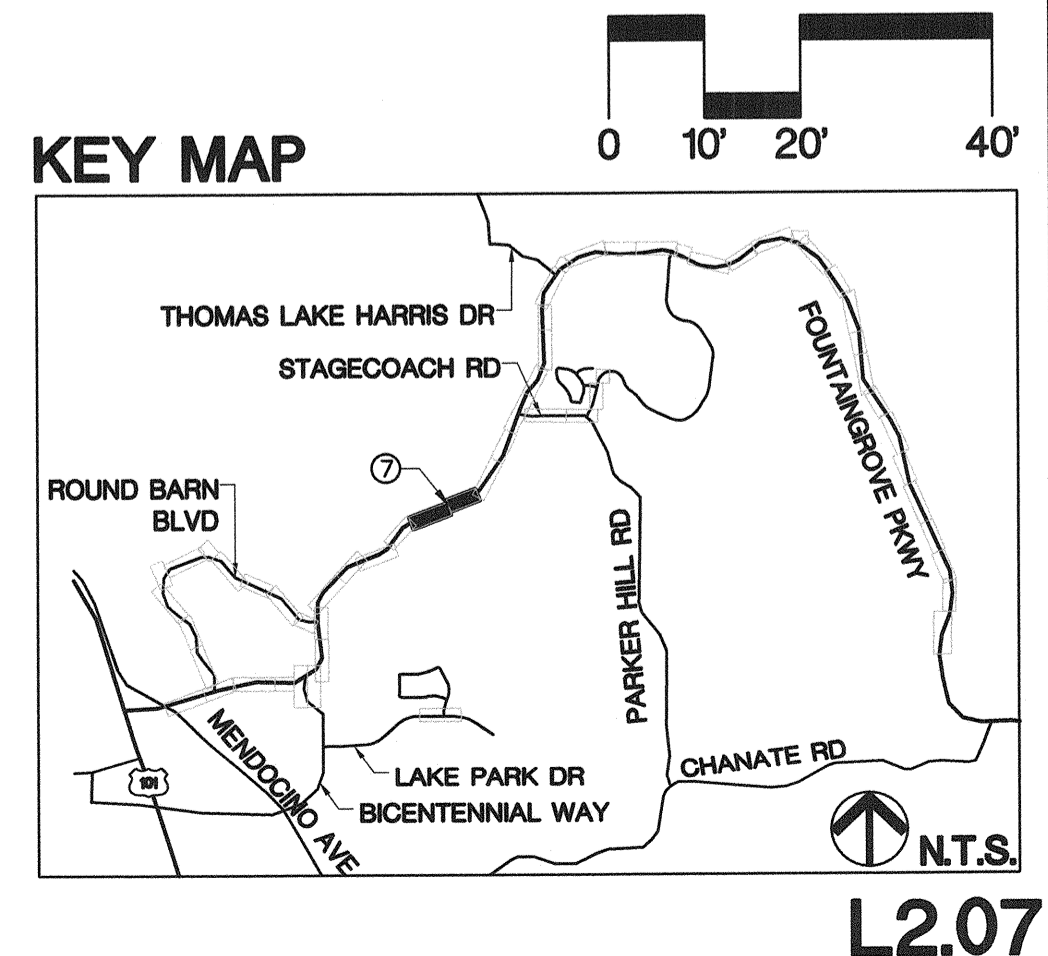


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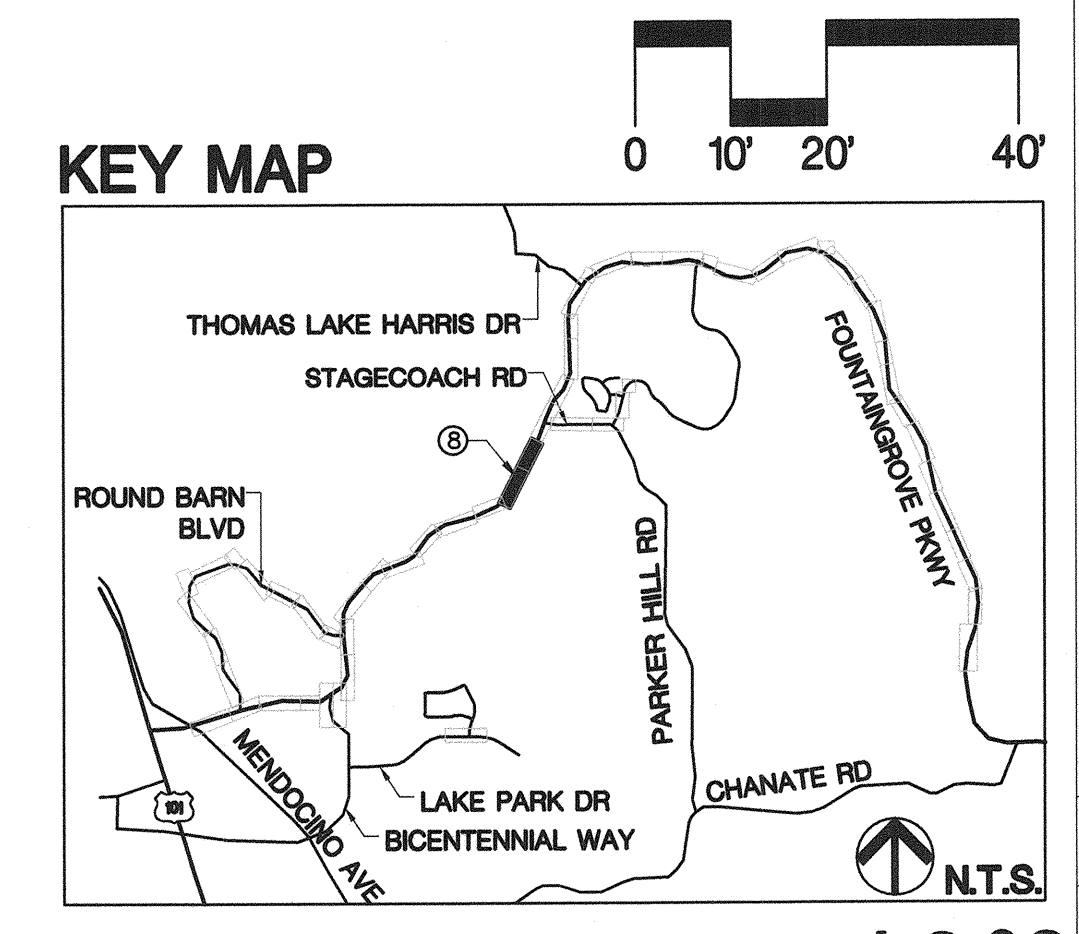
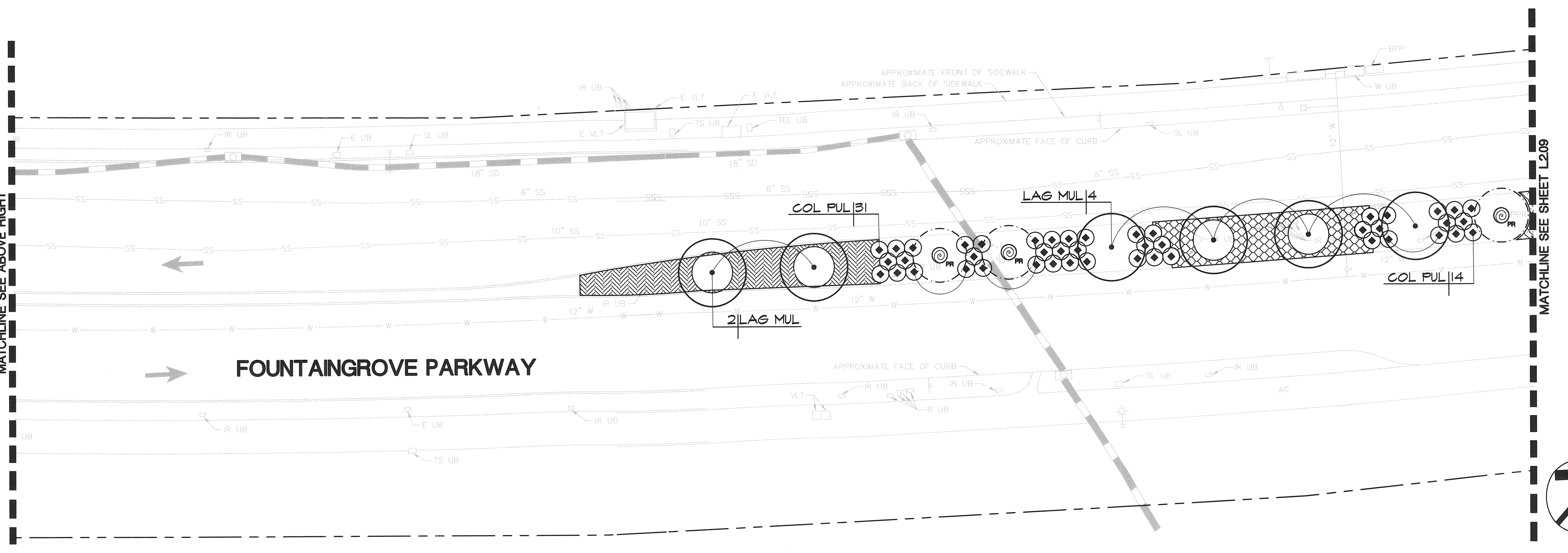
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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 111 OF 139
 FILE NO. 2020-0011

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L2.07



**FOR PLANTING LEGEND AND NOTES
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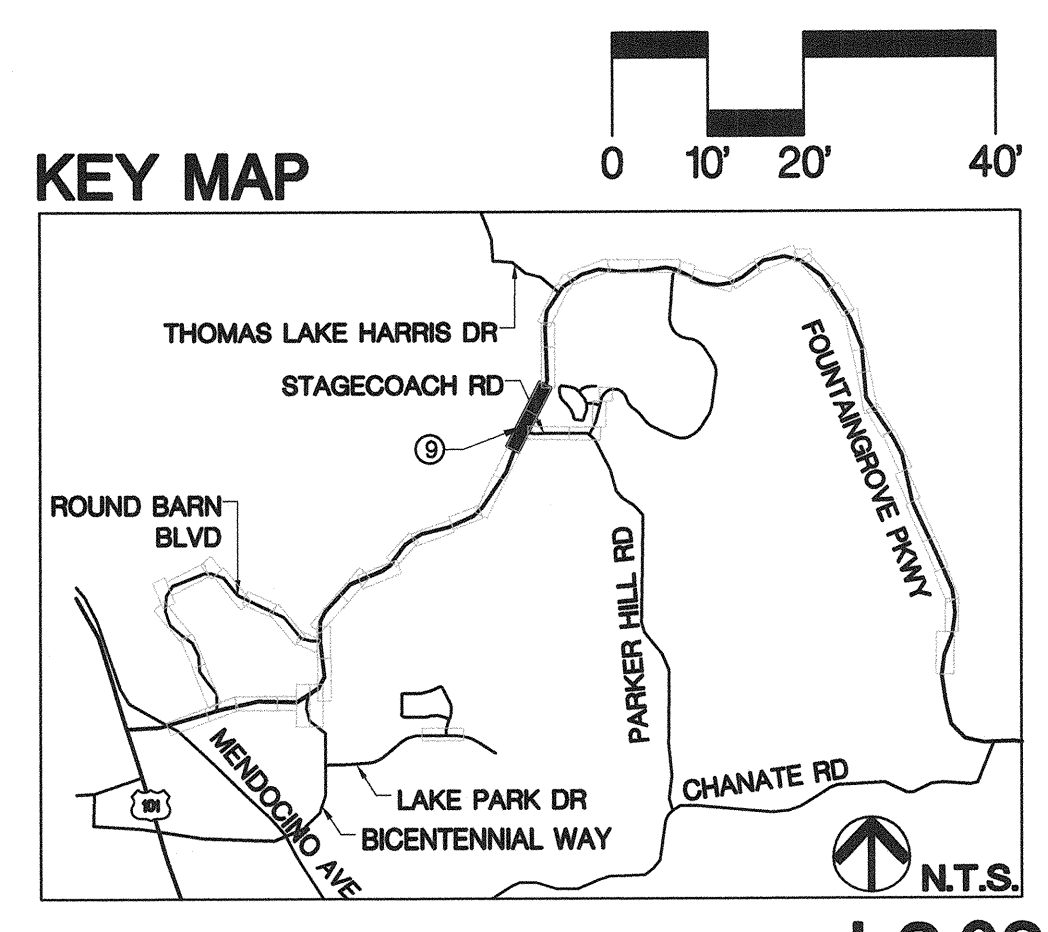
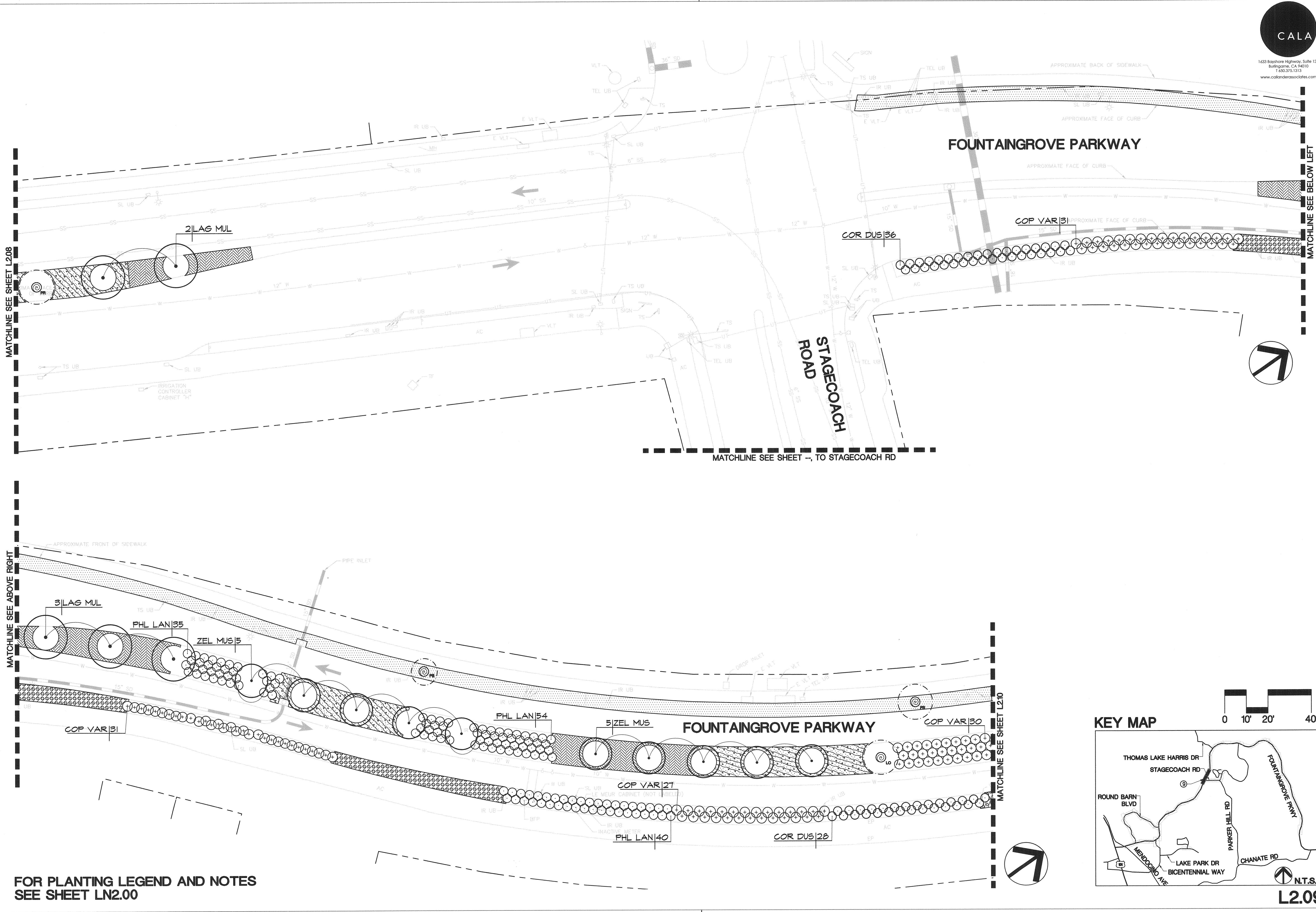
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 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 112 OF 139
 FILE NO. 2020-0011

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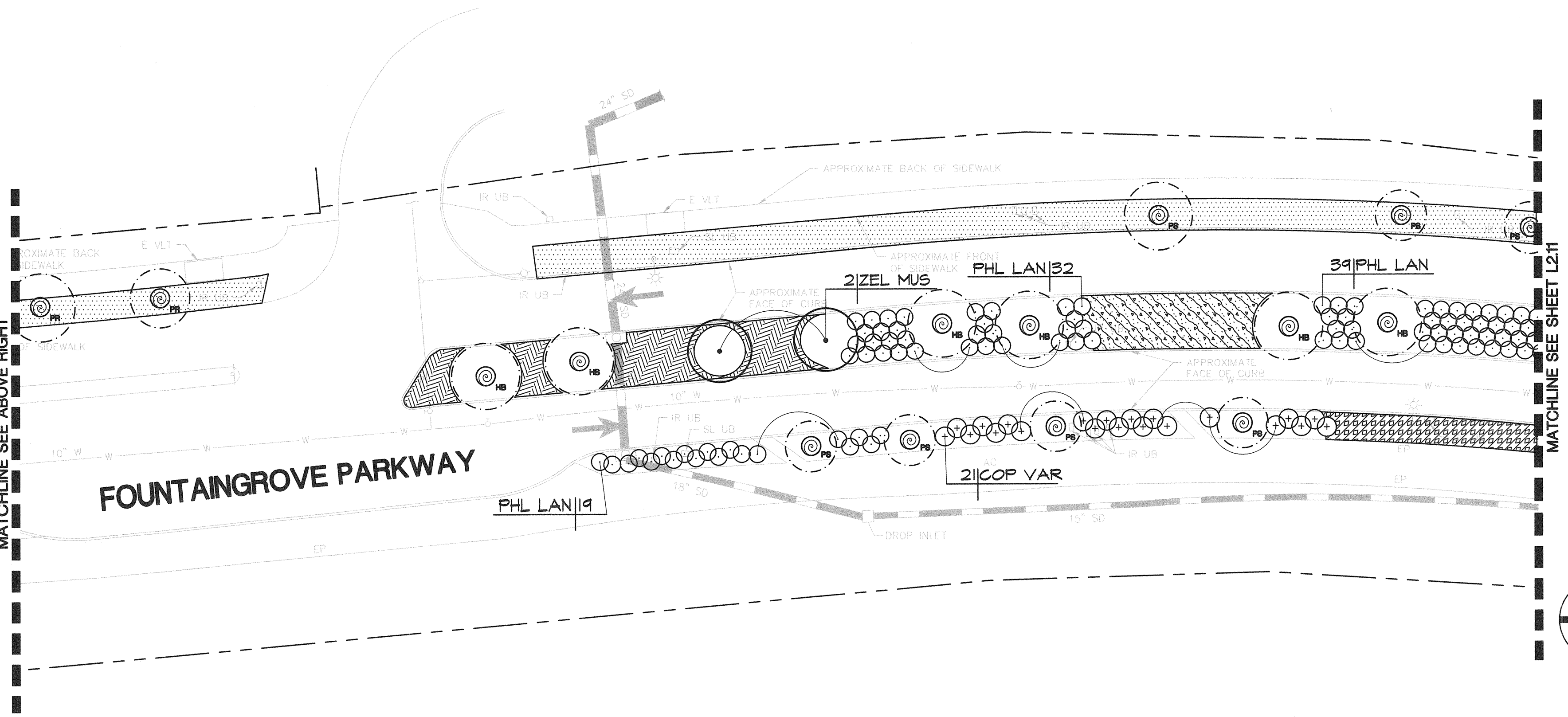
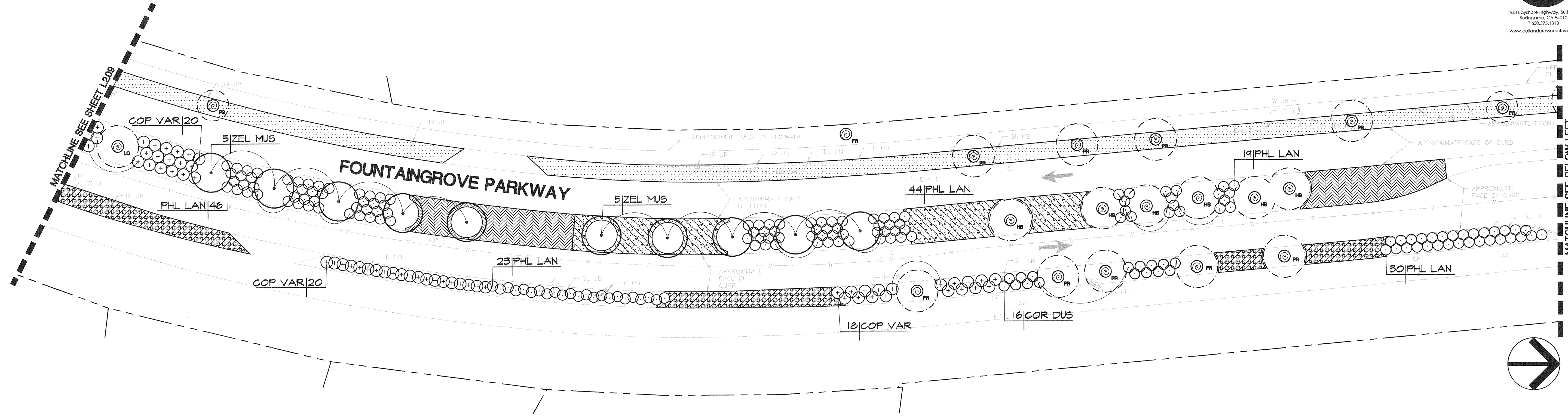
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FIRE DAMAGED ROADWAY LANDSCAPING	
PLANTING PLAN	SHEET 113 OF 139
	FILE NO. 2020-0011

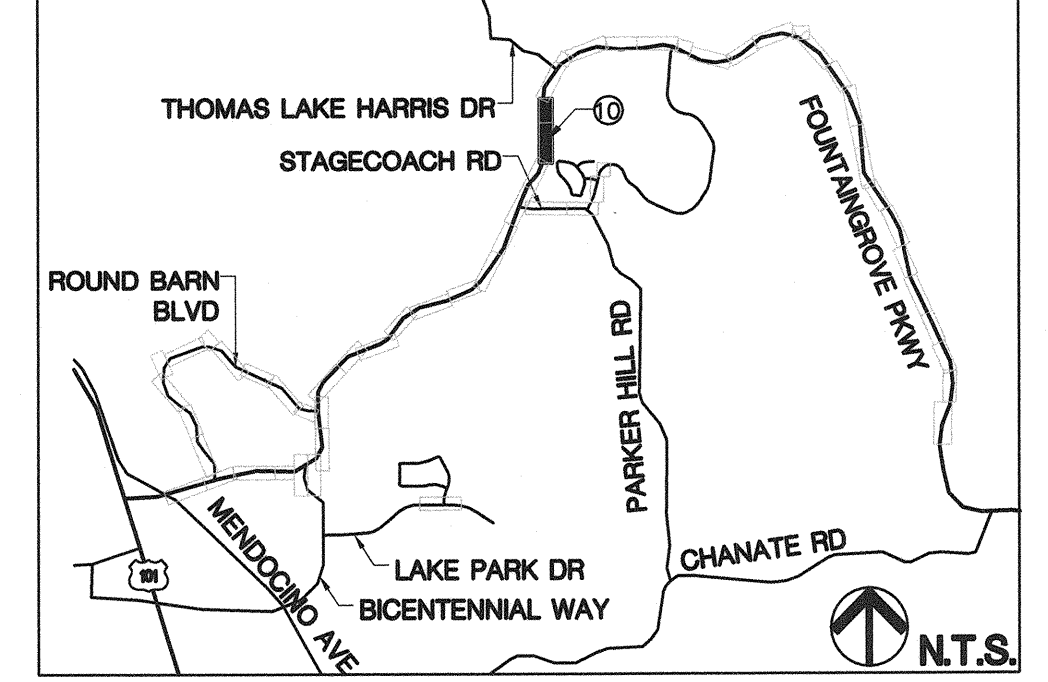


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KEY MAP



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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING

PLANTING PLAN

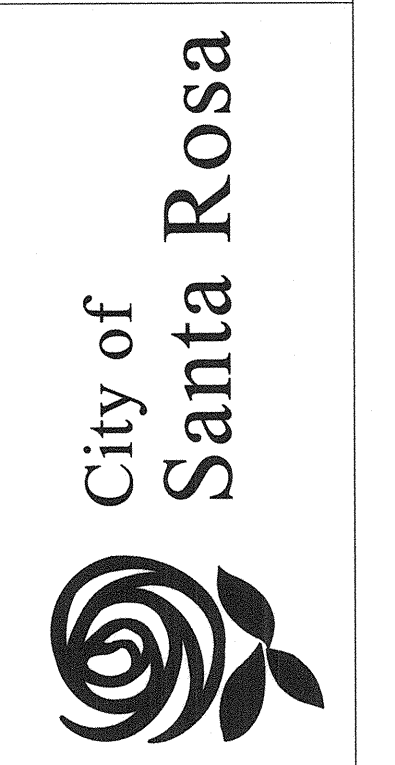
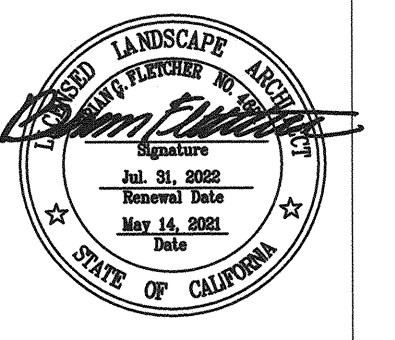
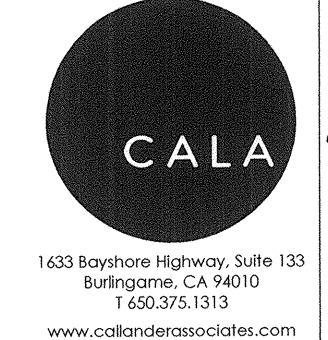
CONTRACT NO.
 C02300

SHEET 114 OF 139

FILE NO. 2020-0011

L2.10

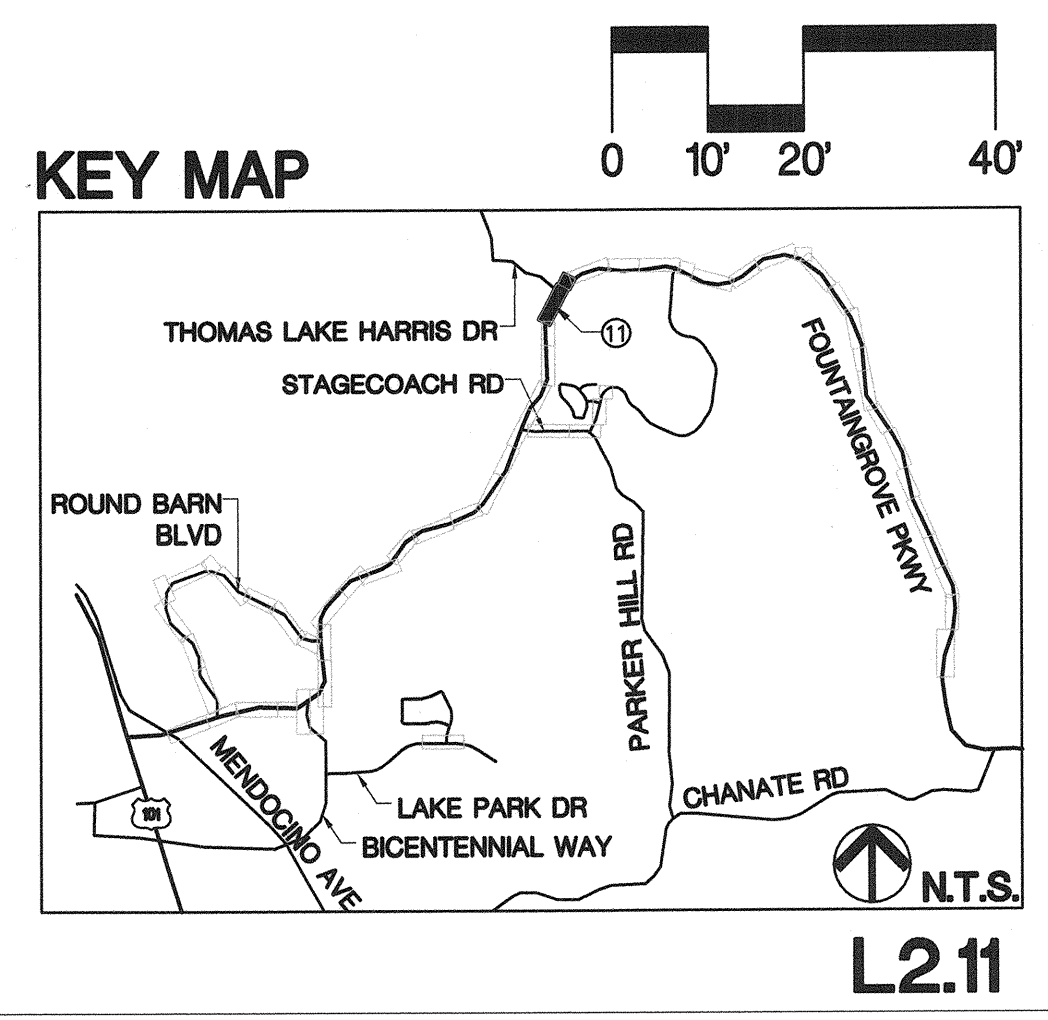
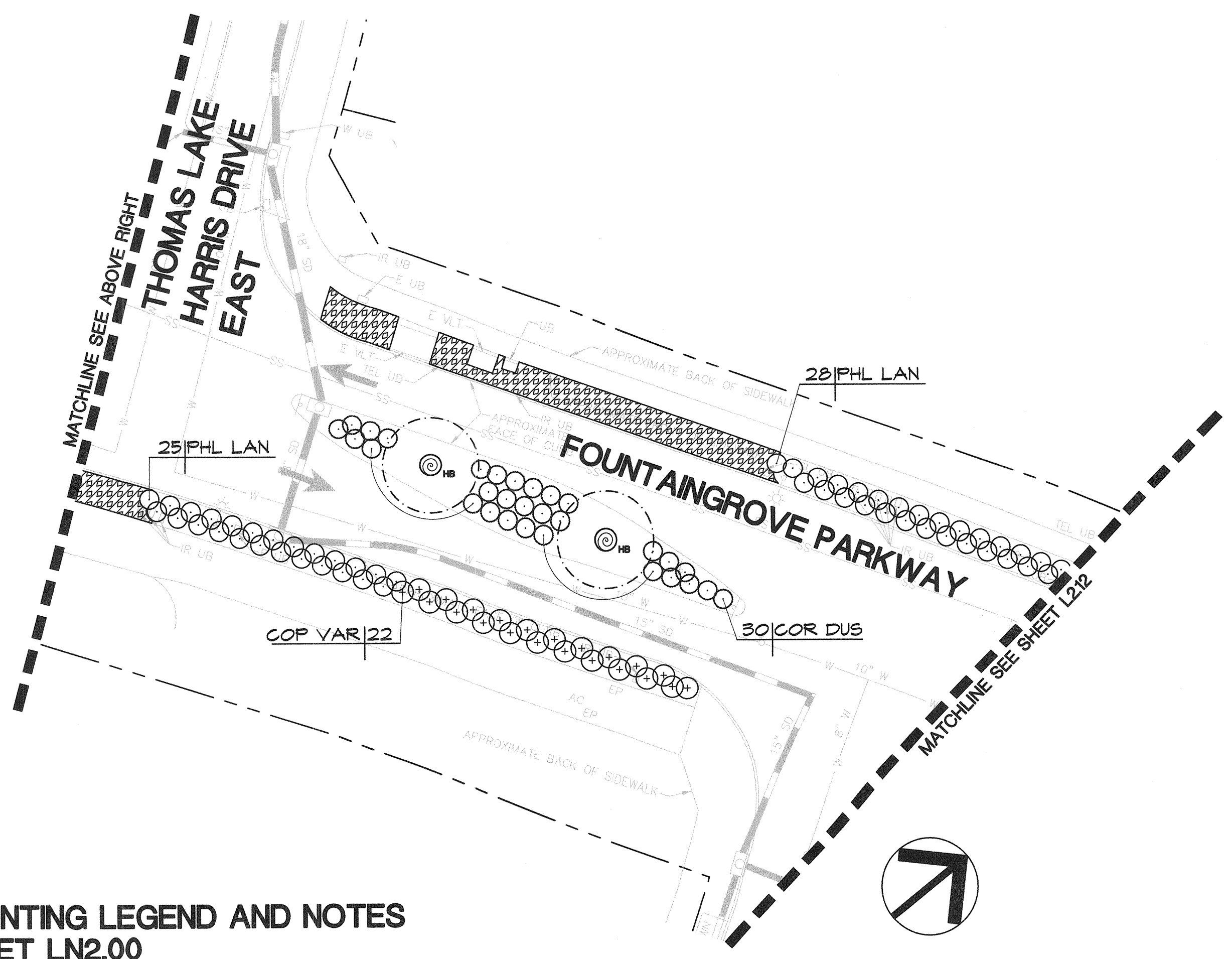
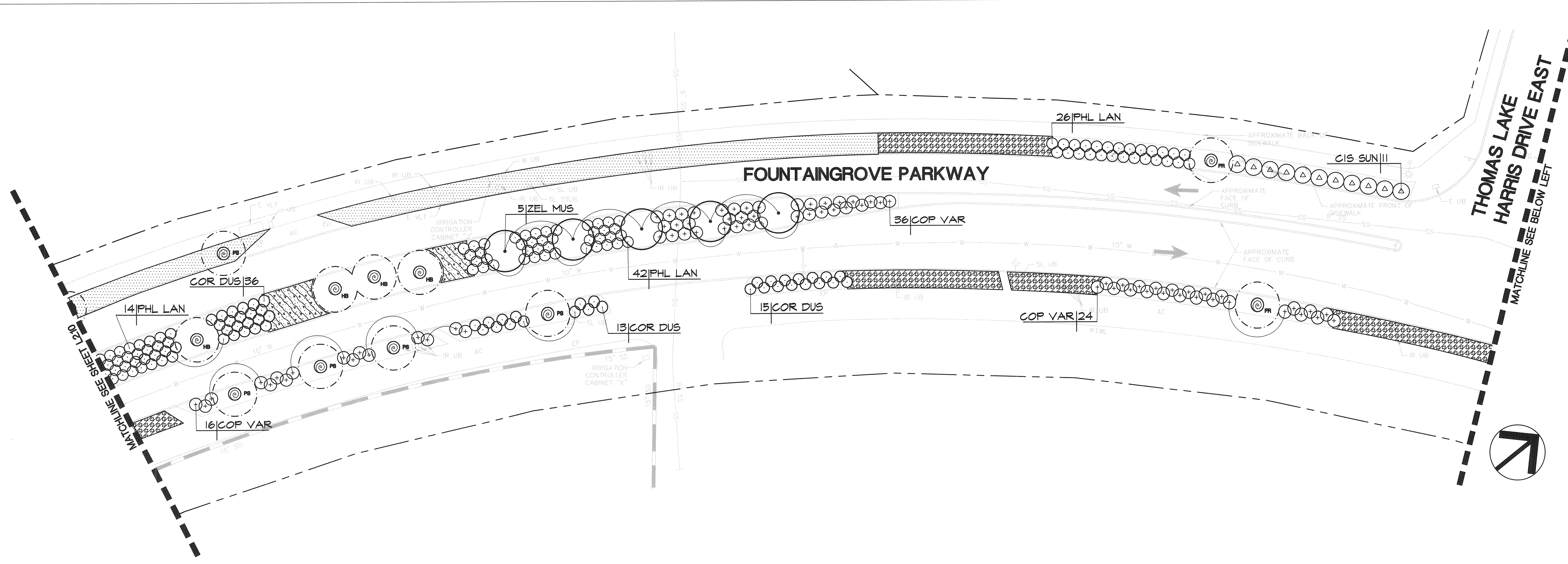
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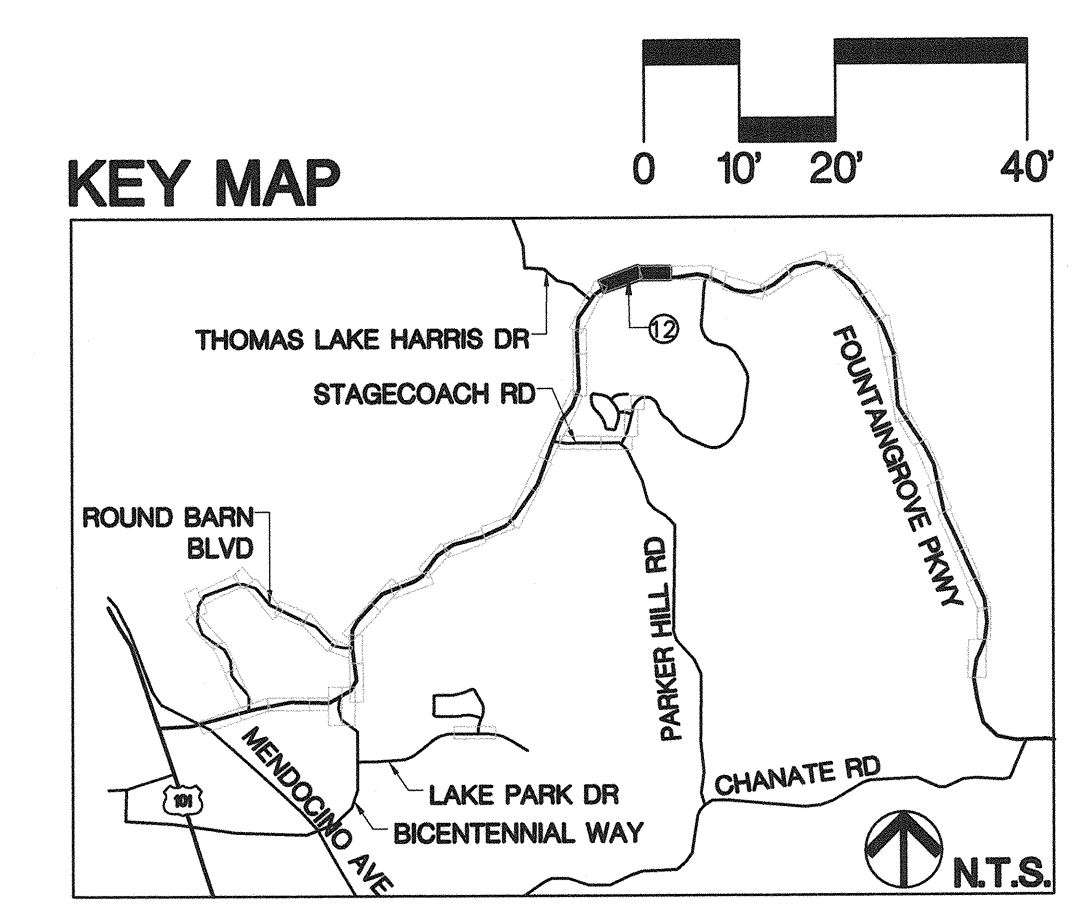
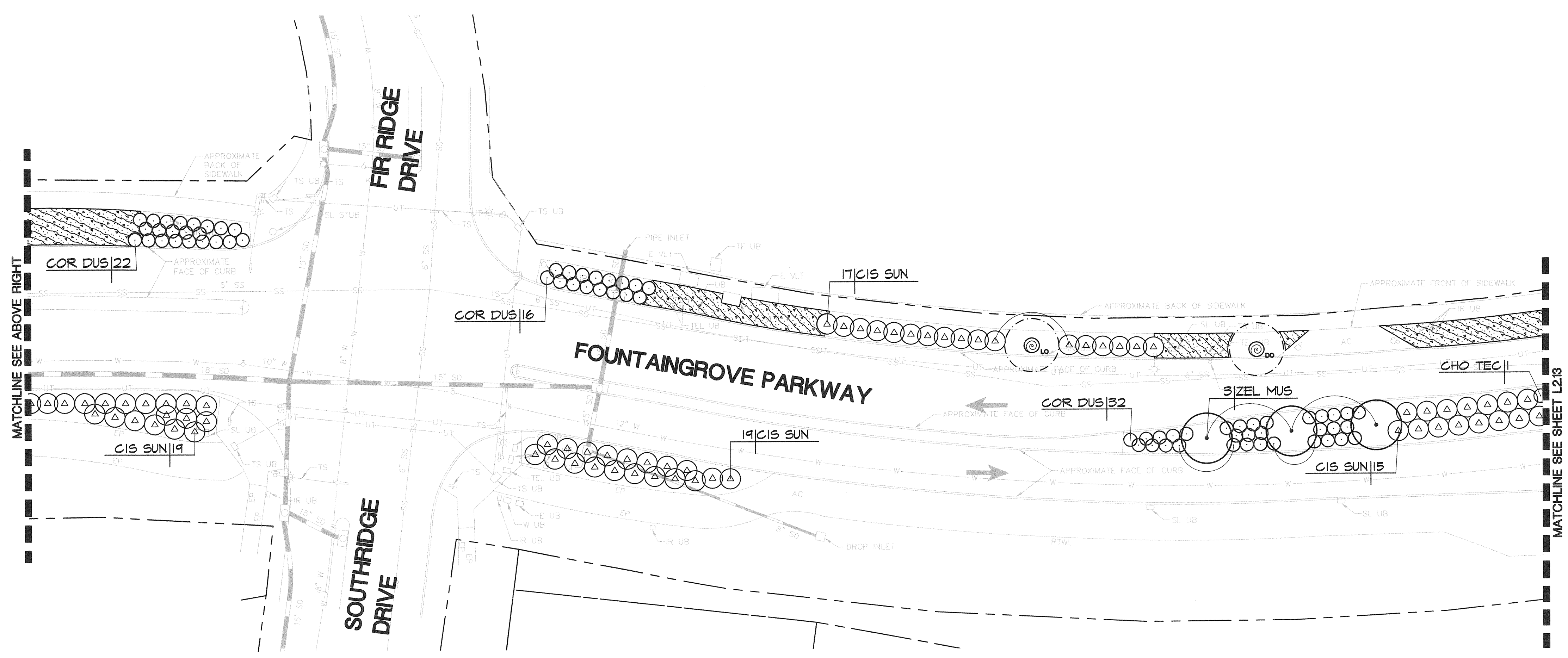
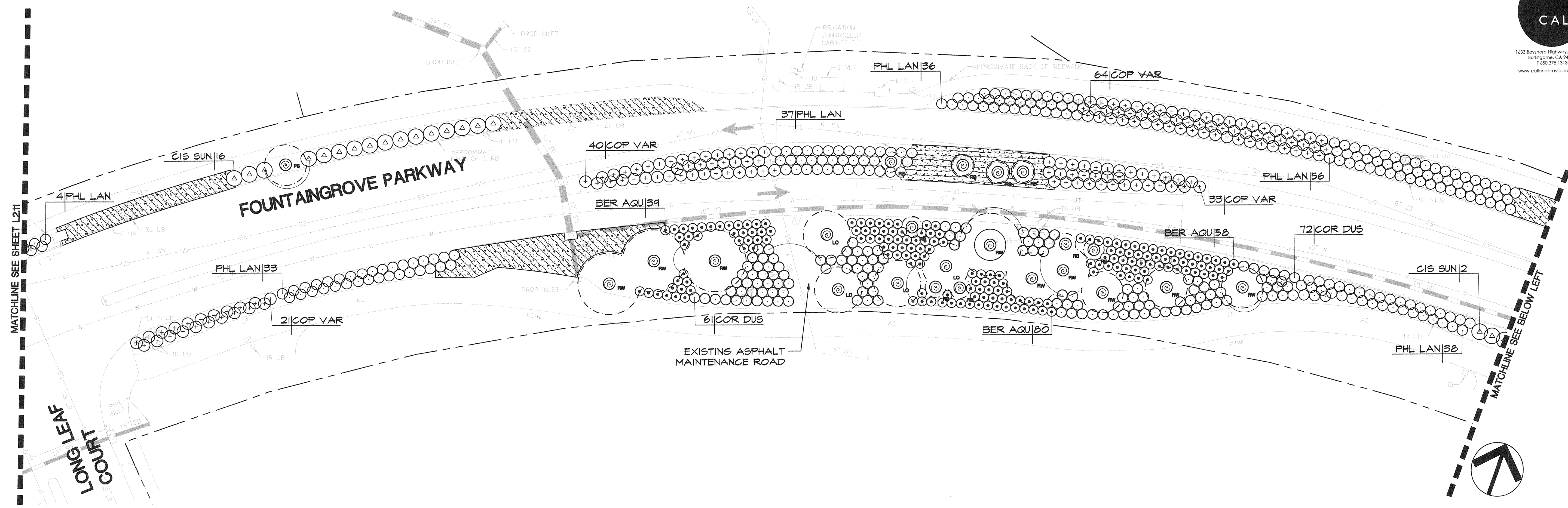
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PLANTING PLAN	SHEET 115 OF 139
	FILE NO. 2020-0011



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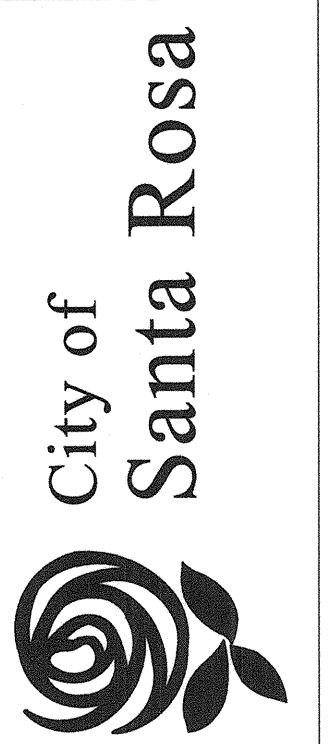
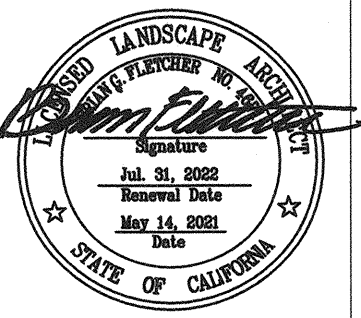
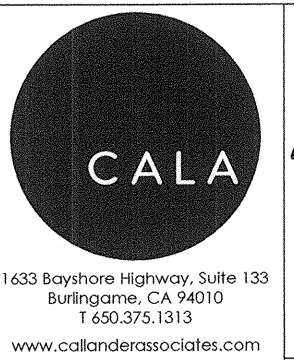
**FOR PLANTING LEGEND AND NOTES
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NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: MR
DWN BY: DC		

CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 116 OF 139
 FILE NO. 2020-0011

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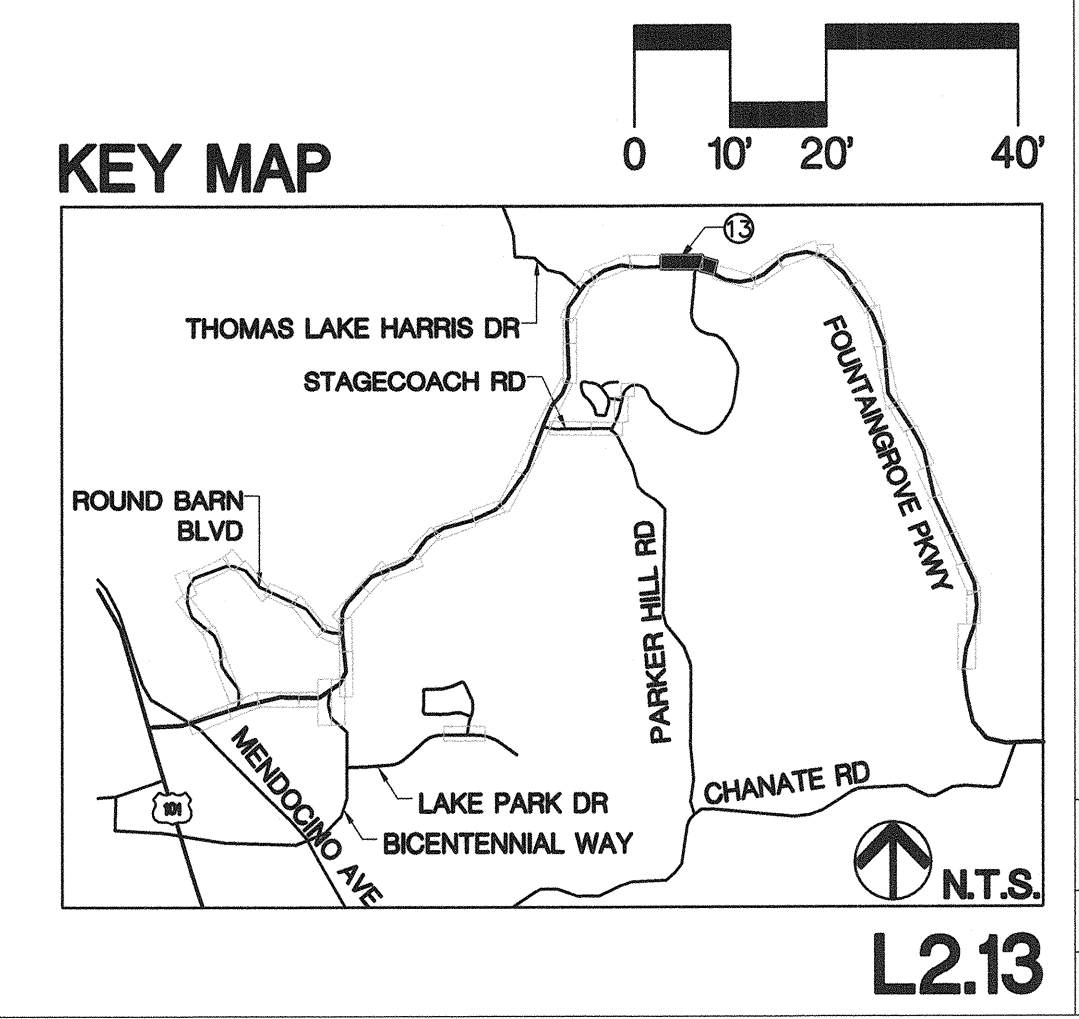
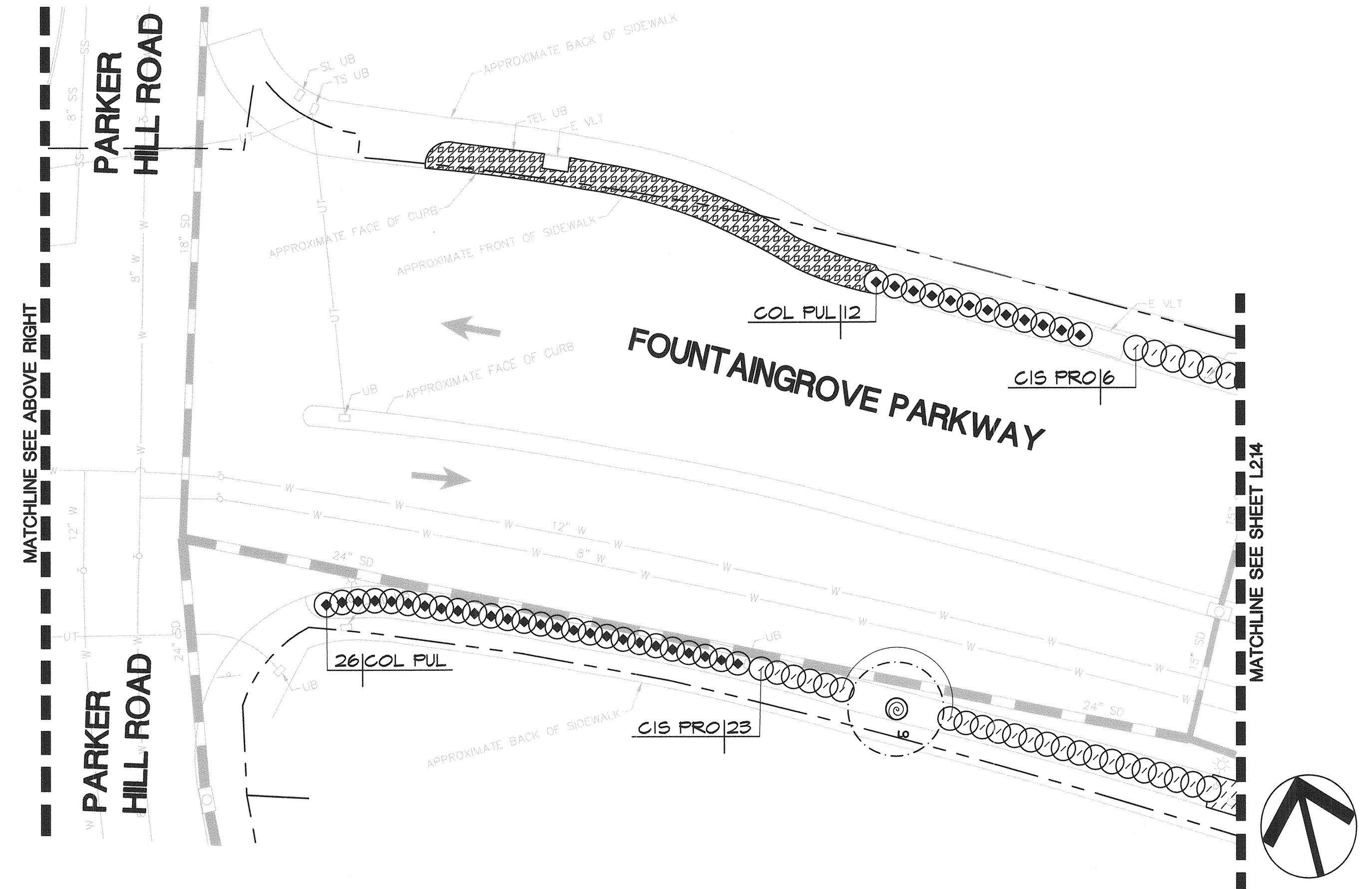
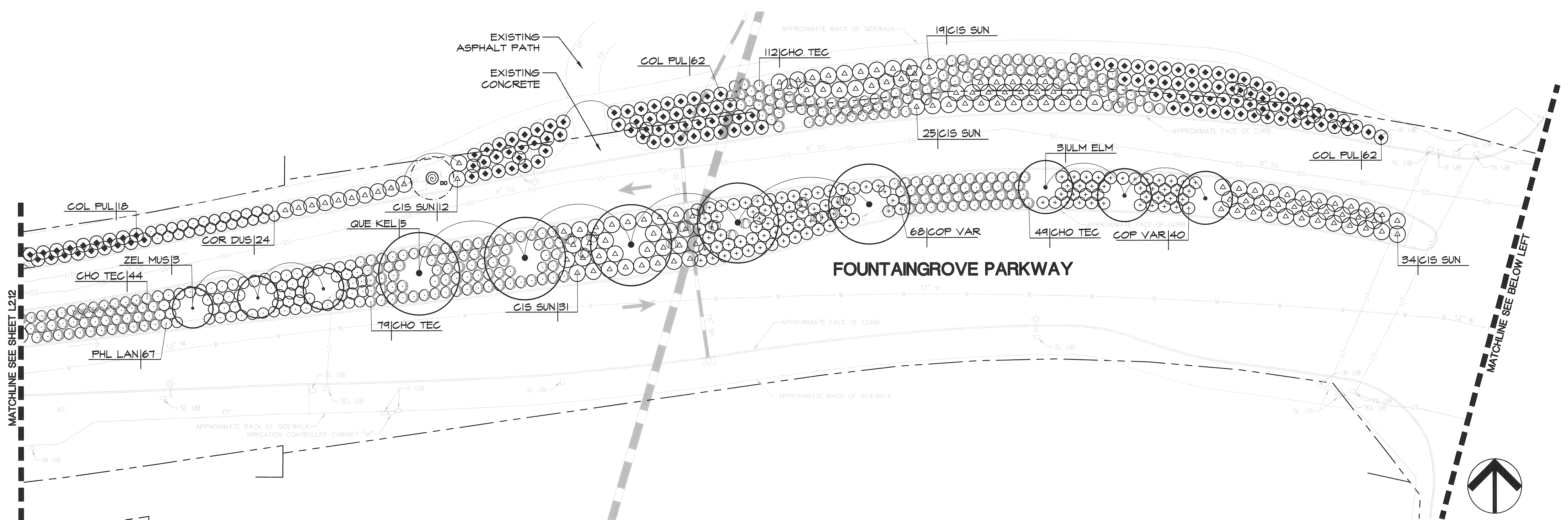
NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021
DWN BY: DC	CHK BY: MR

CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING

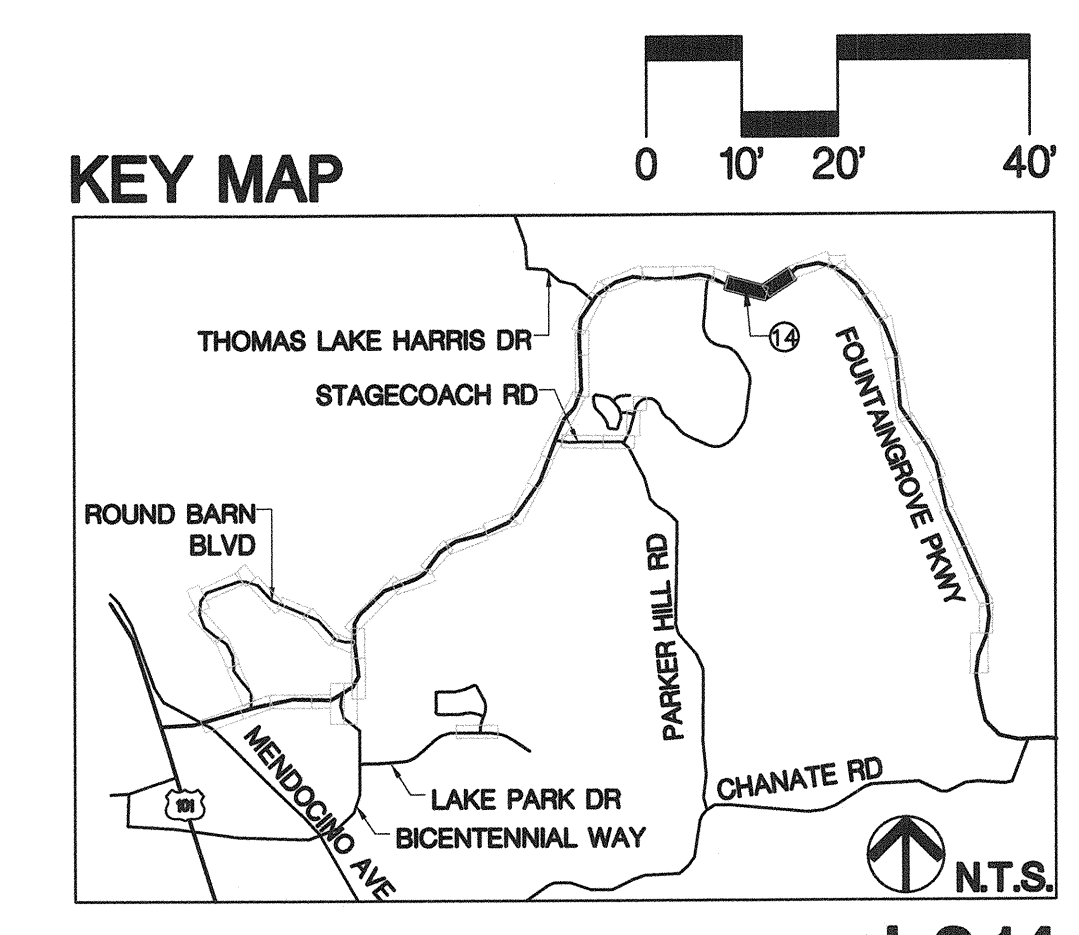
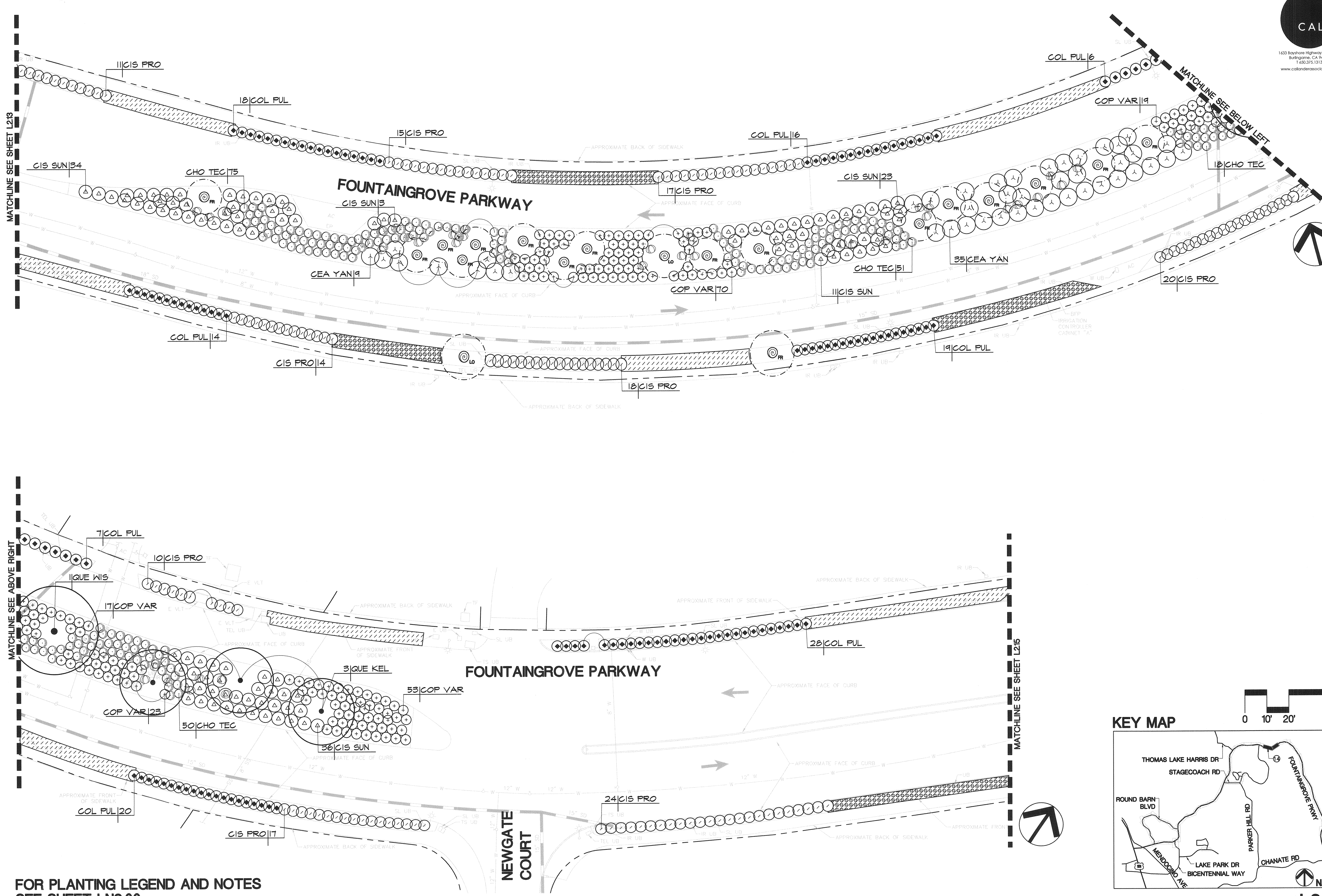
PLANTING PLAN

CONTRACT NO. C02300
SHEET 117 OF 139
FILE NO. 2020-0011



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CITY OF SANTA ROSA
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PLANTING PLAN

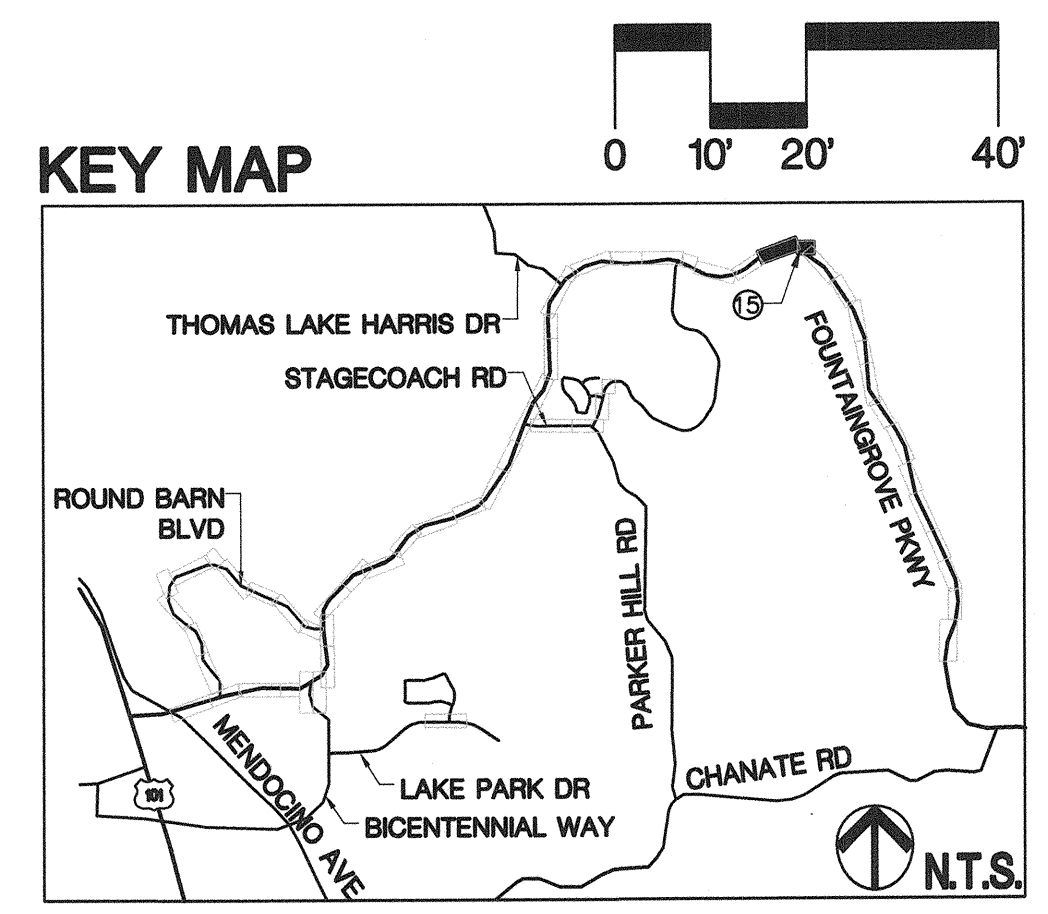
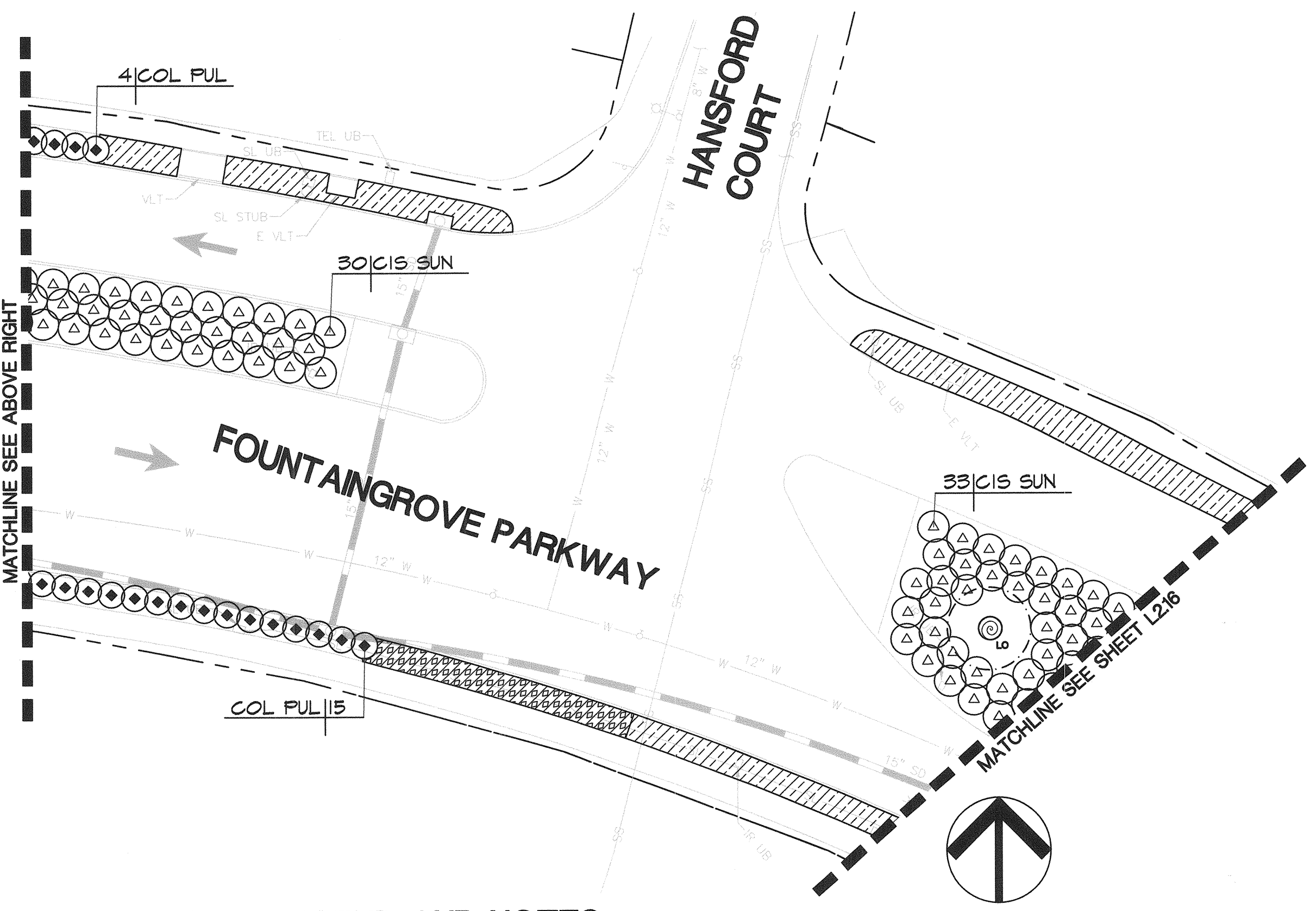
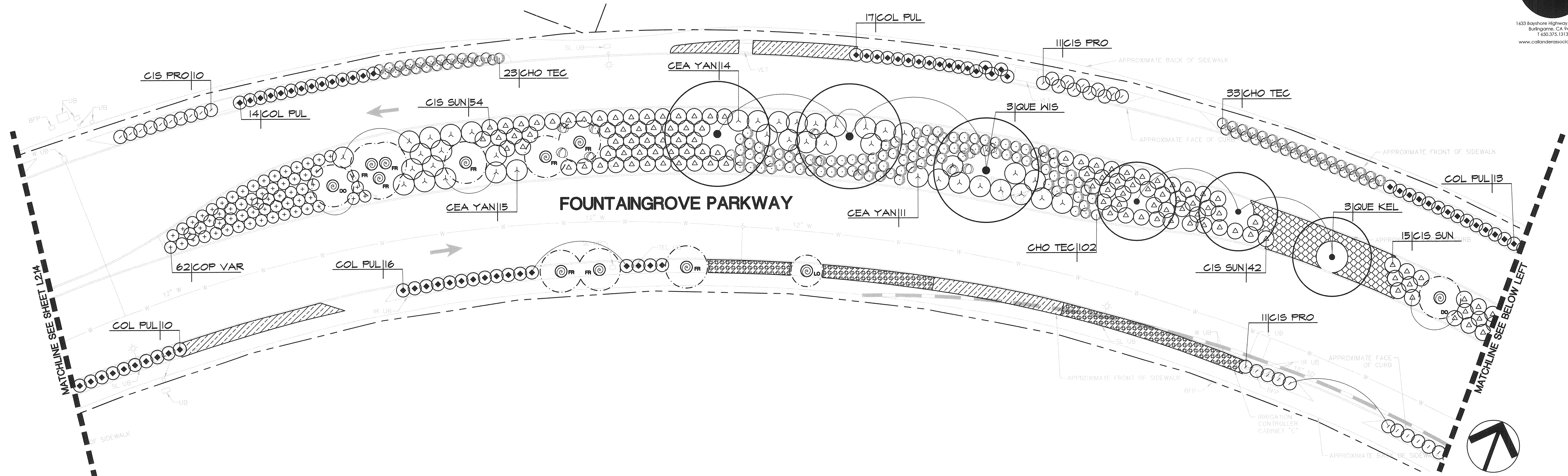
CONTRACT NO. C02300
 SHEET 118 OF 139
 FILE NO. 2020-0011

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CITY OF SANTA ROSA	CONTRACT NO. C02300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 119 OF 139
PLANTING PLAN	FILE NO. 2020-0011

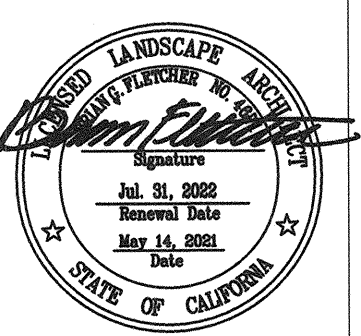


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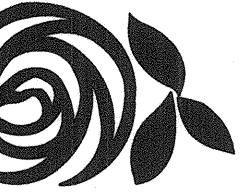
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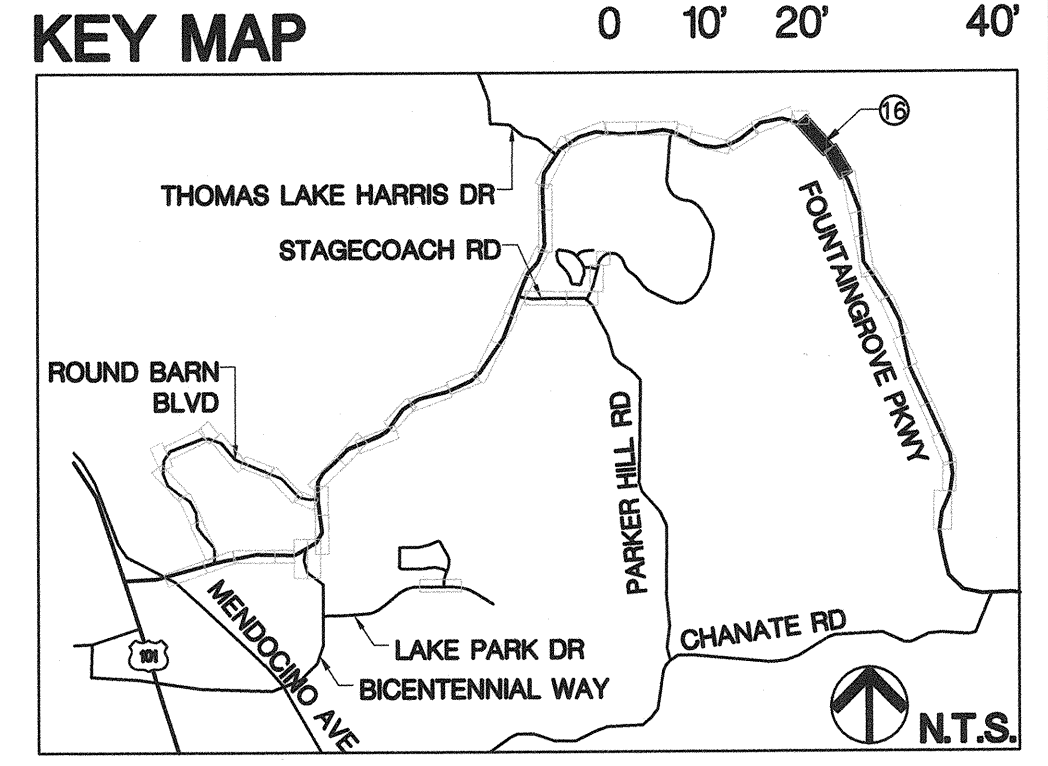
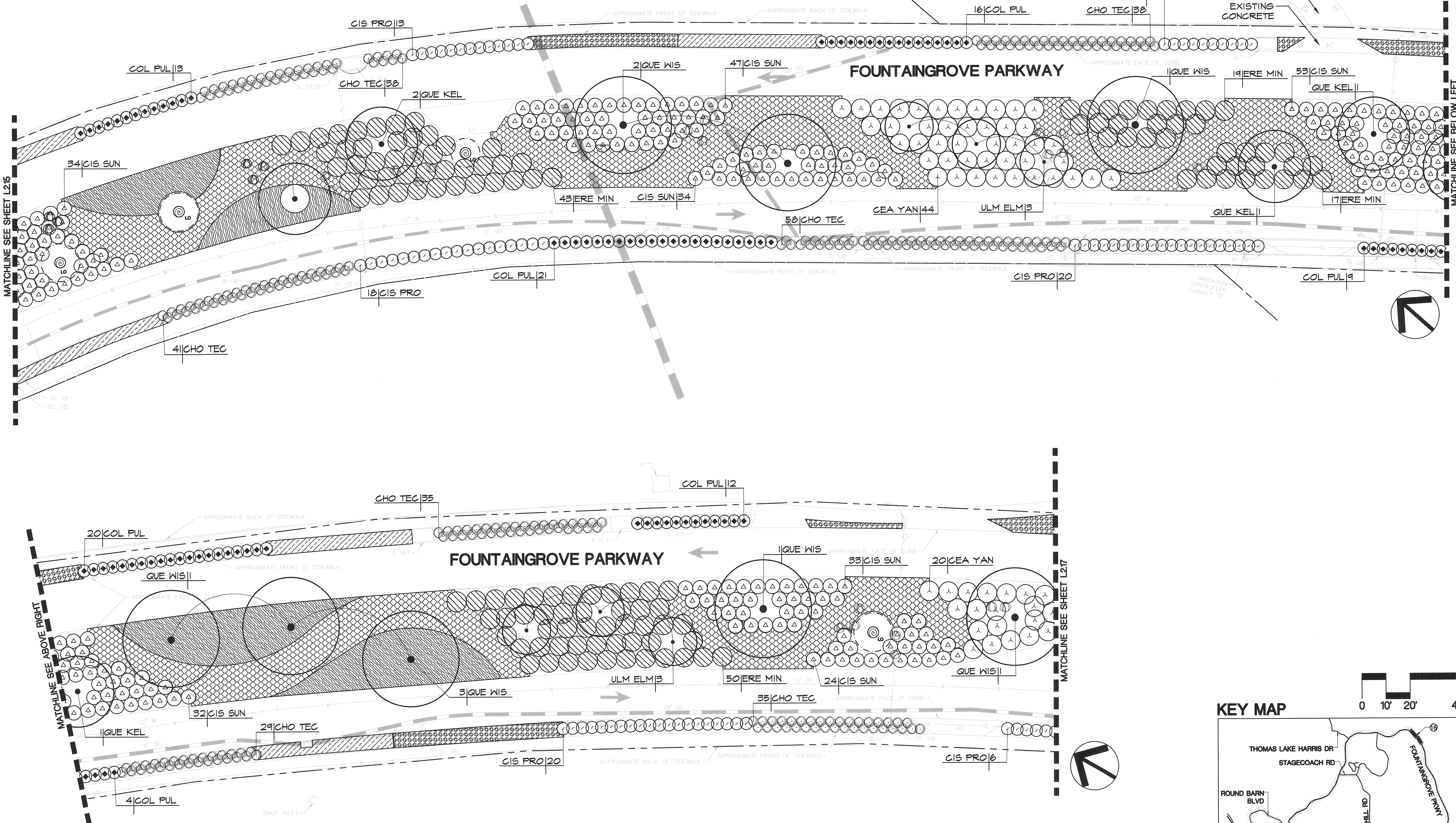
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DATE:	05/14/2021
CHK BY:	MR

CITY OF SANTA ROSA
FIRE DAMAGED ROADWAY LANDSCAPING

CONTRACT NO.
C02300
SHEET 120 OF 139
FILE NO. 2020-0011

PLANTING PLAN

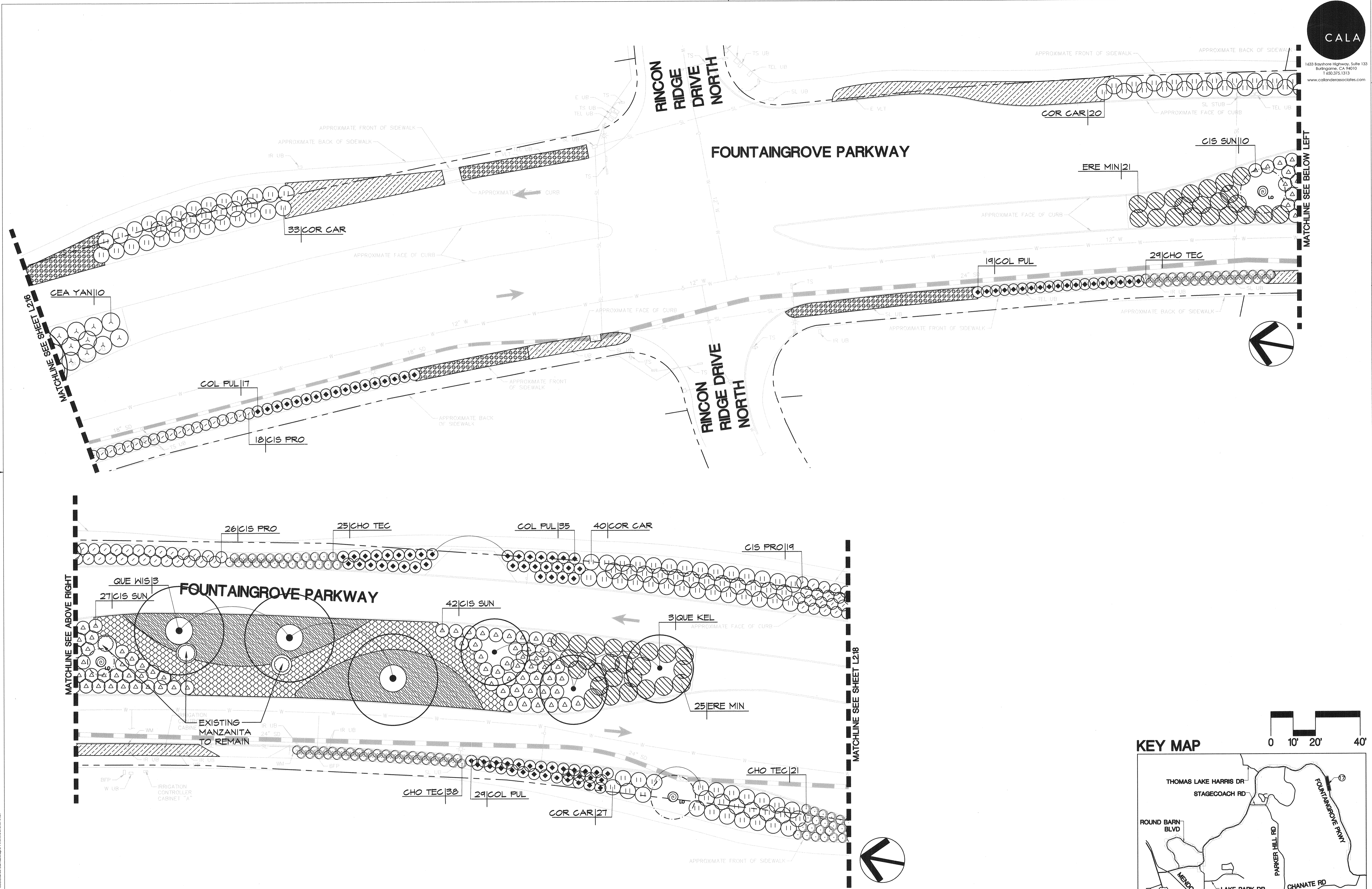
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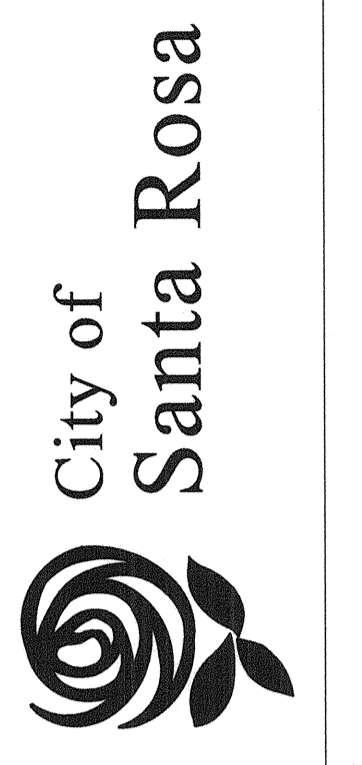
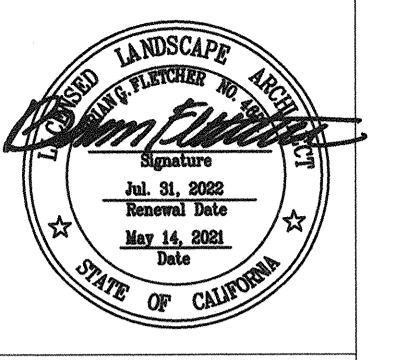
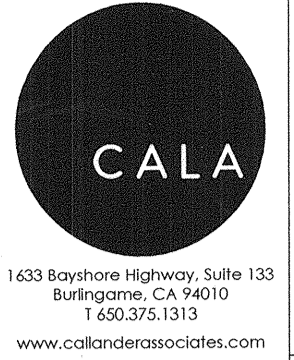
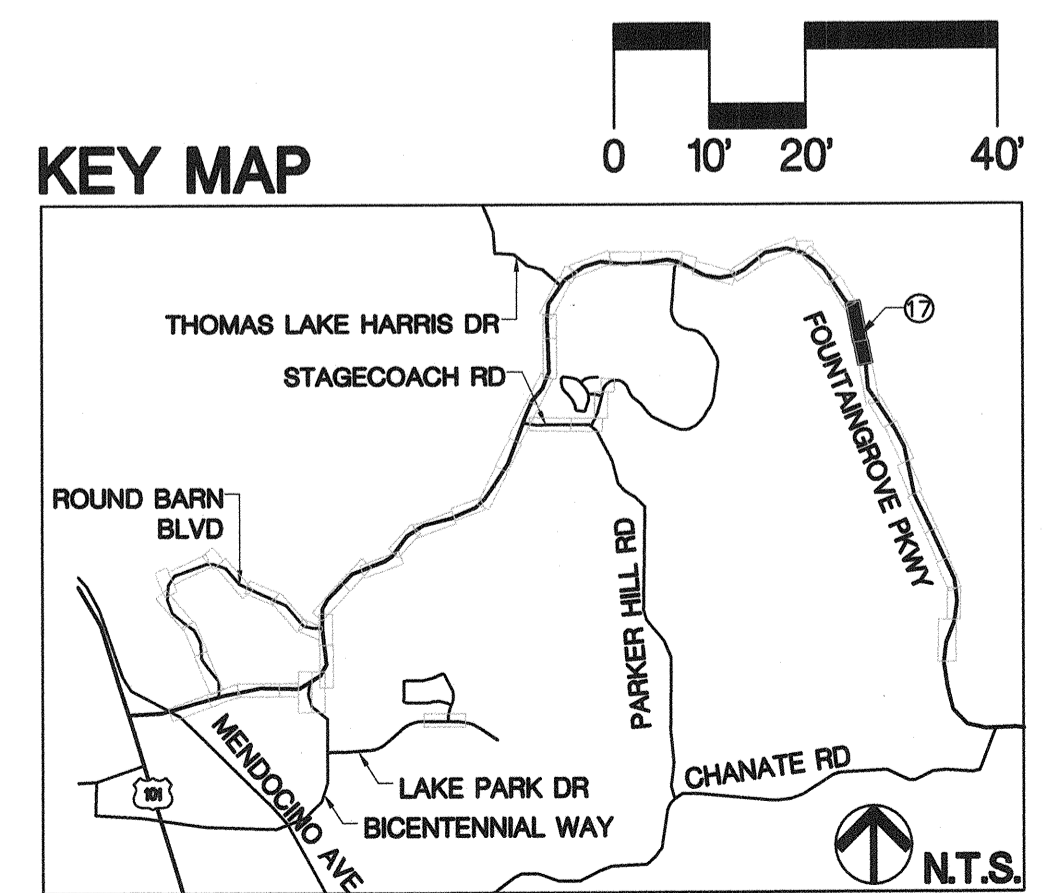
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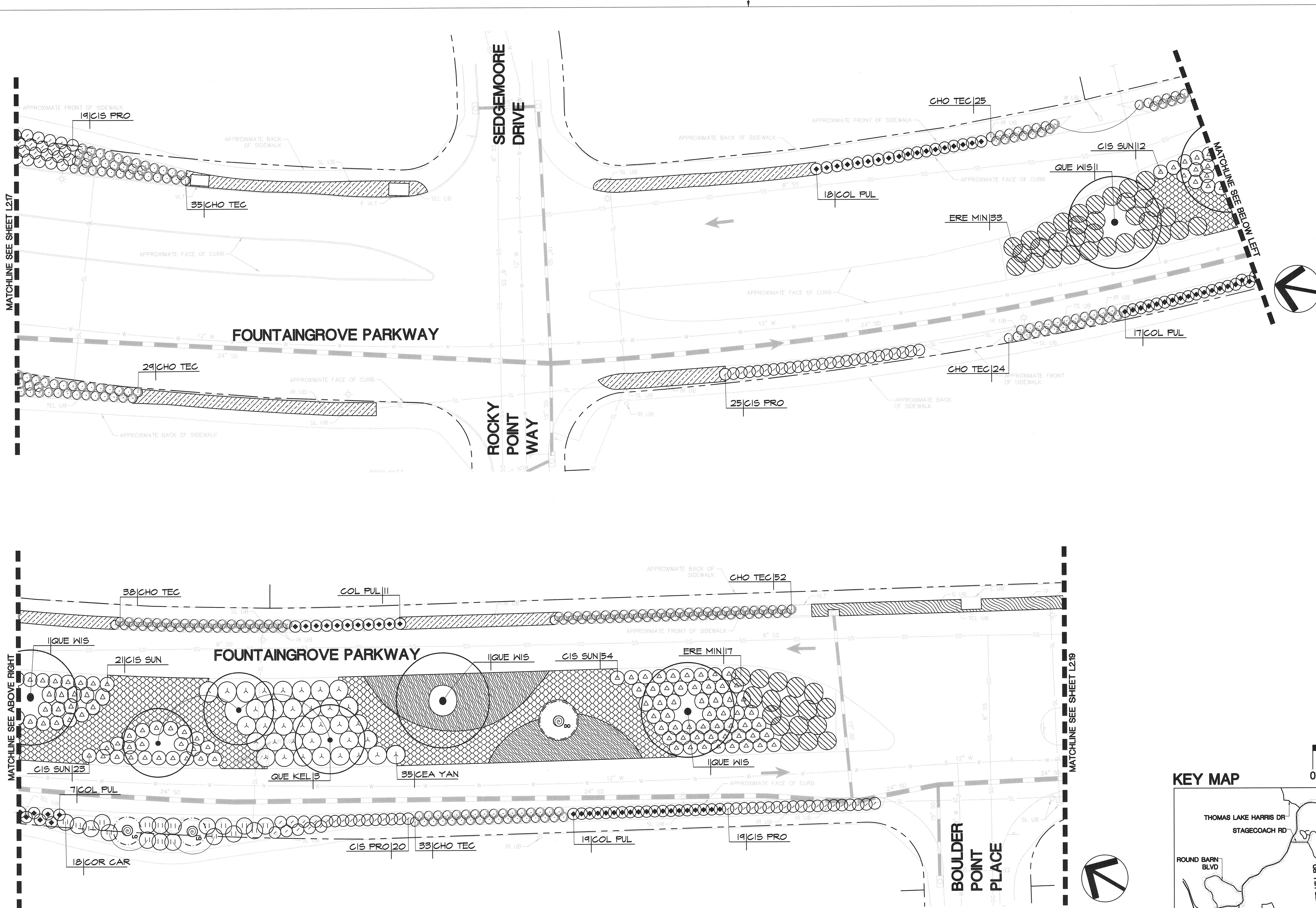


NO.	DATE	REVISION	BY

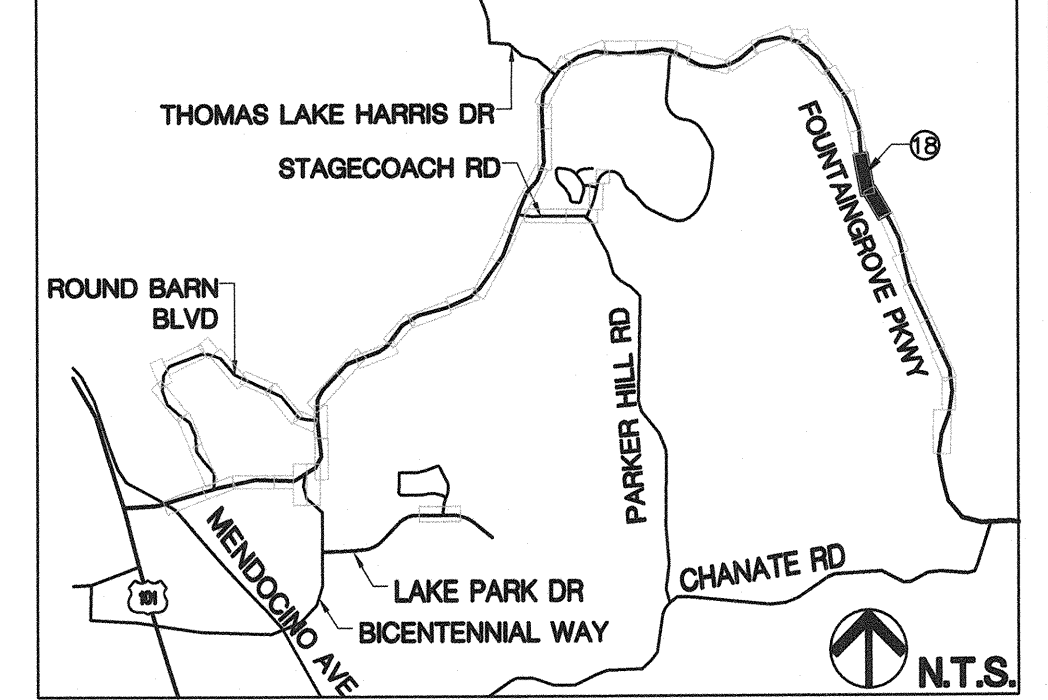
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DWN BY: DC	CHK BY: MR

CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 121 OF 139
 FILE NO. 2020-0011

L2.17



KEY MAP



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NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: MR
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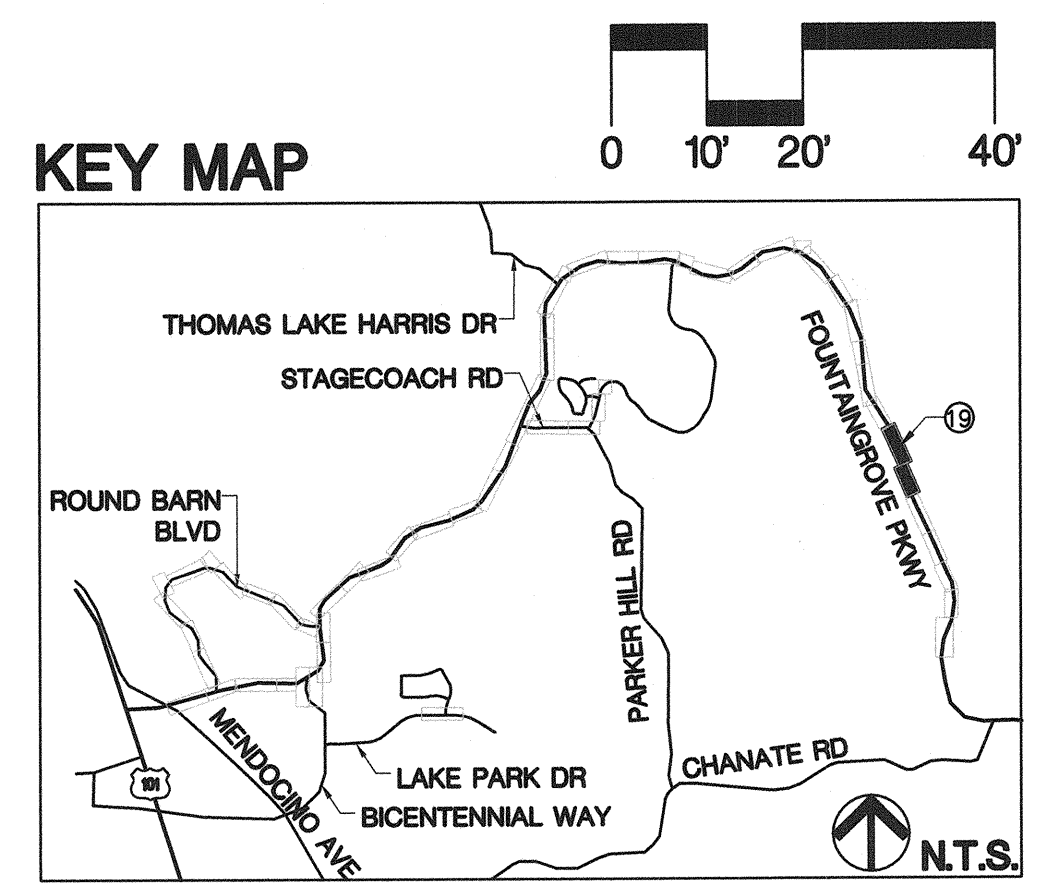
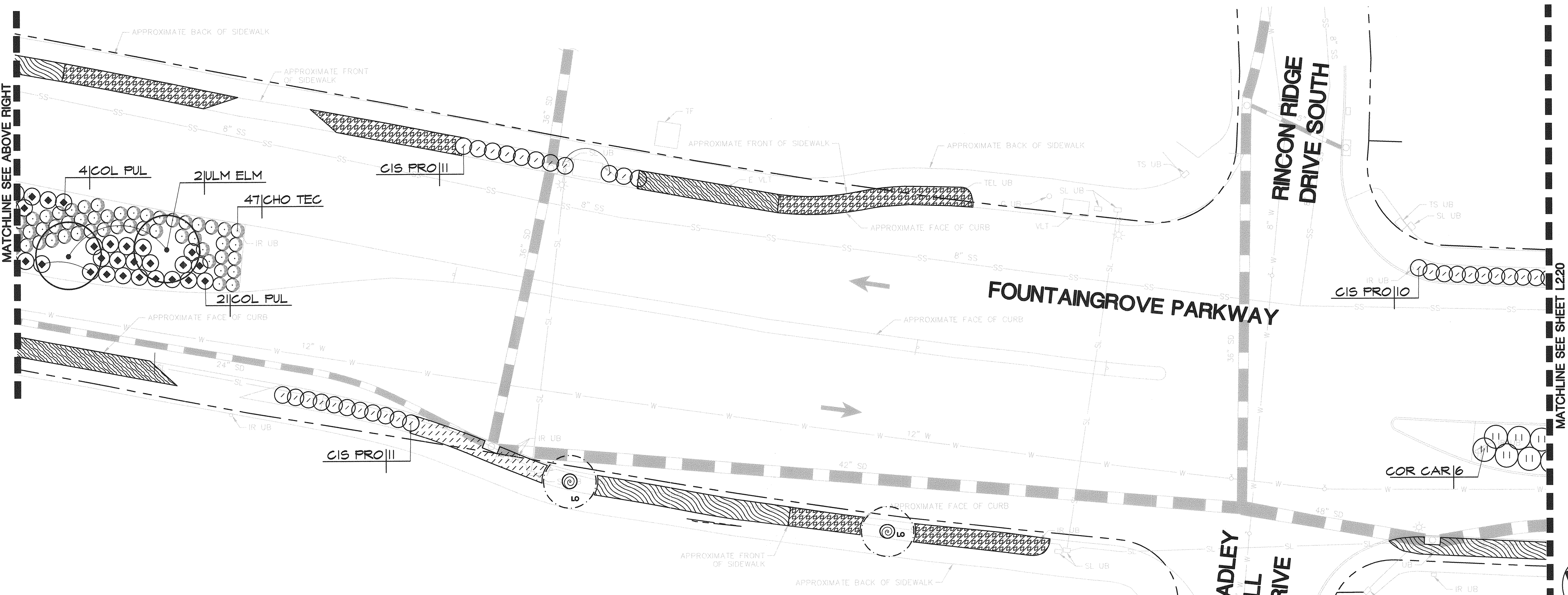
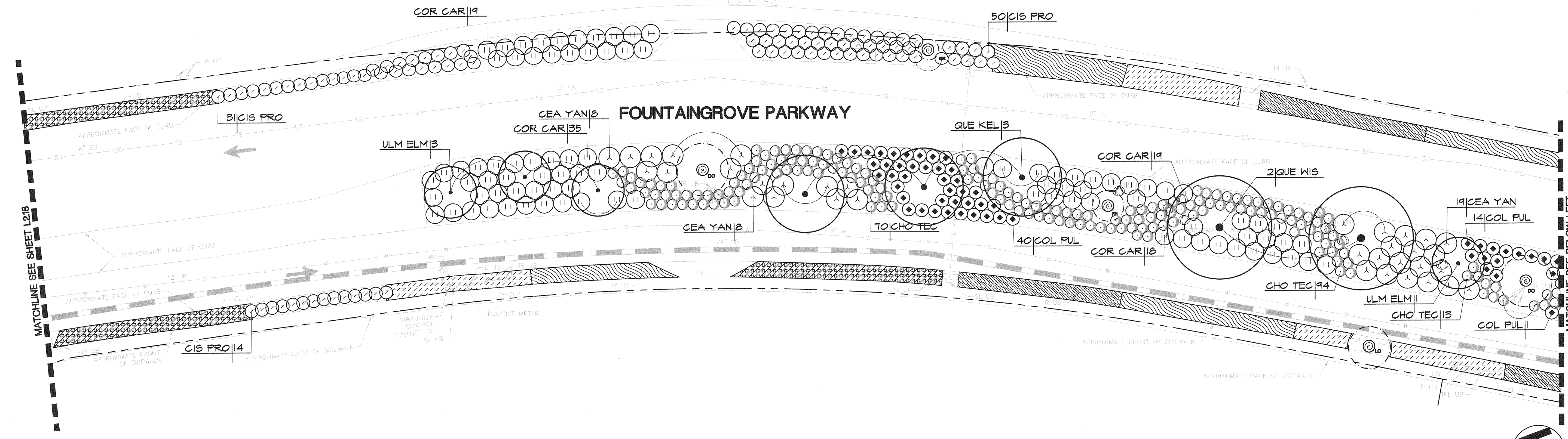
CITY OF SANTA ROSA	FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN	
CONTRACT NO. C02300	FILE NO. 2020-0011
SHEET 122 OF 139	

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NO.	DATE	REVISION	BY

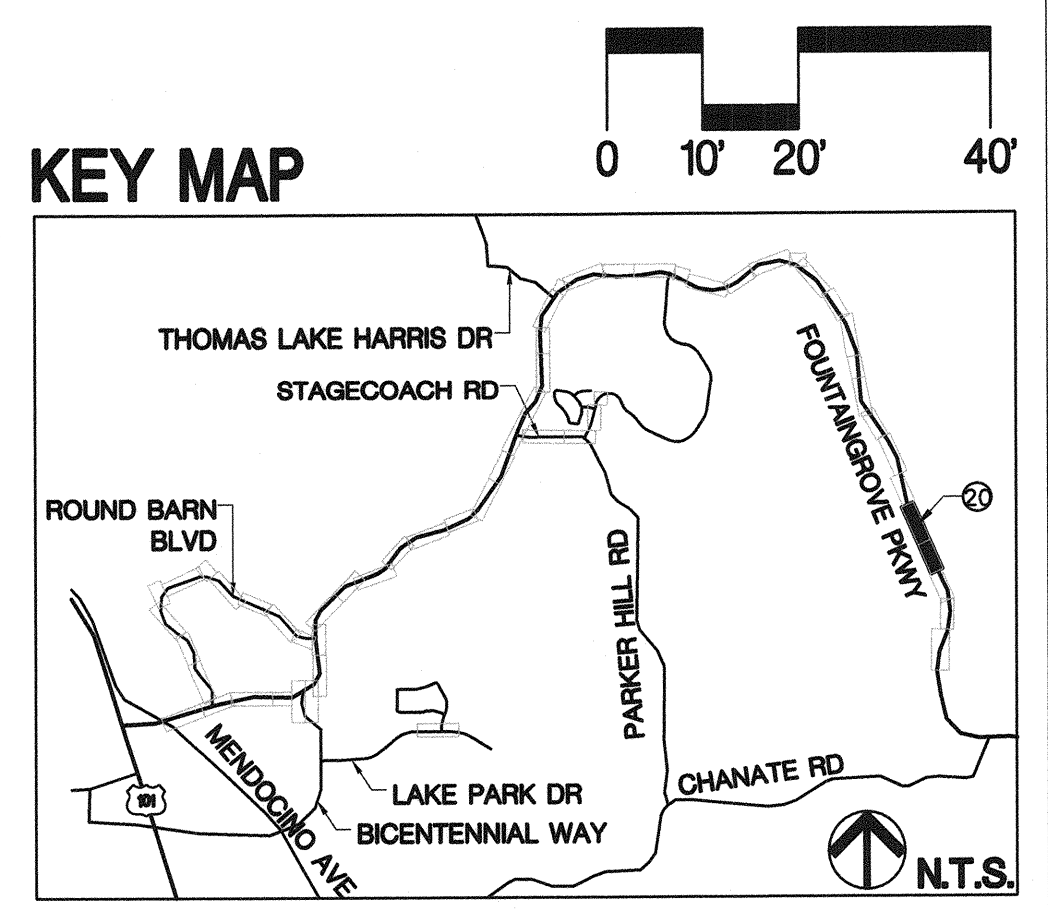
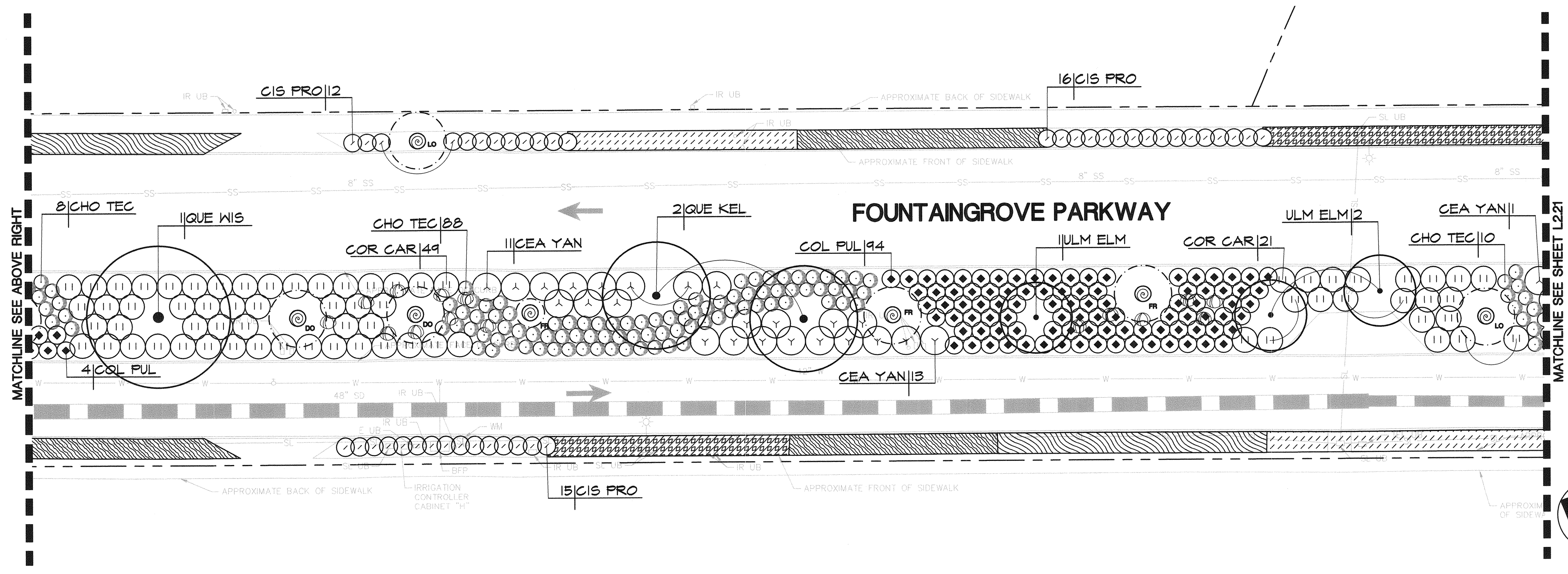
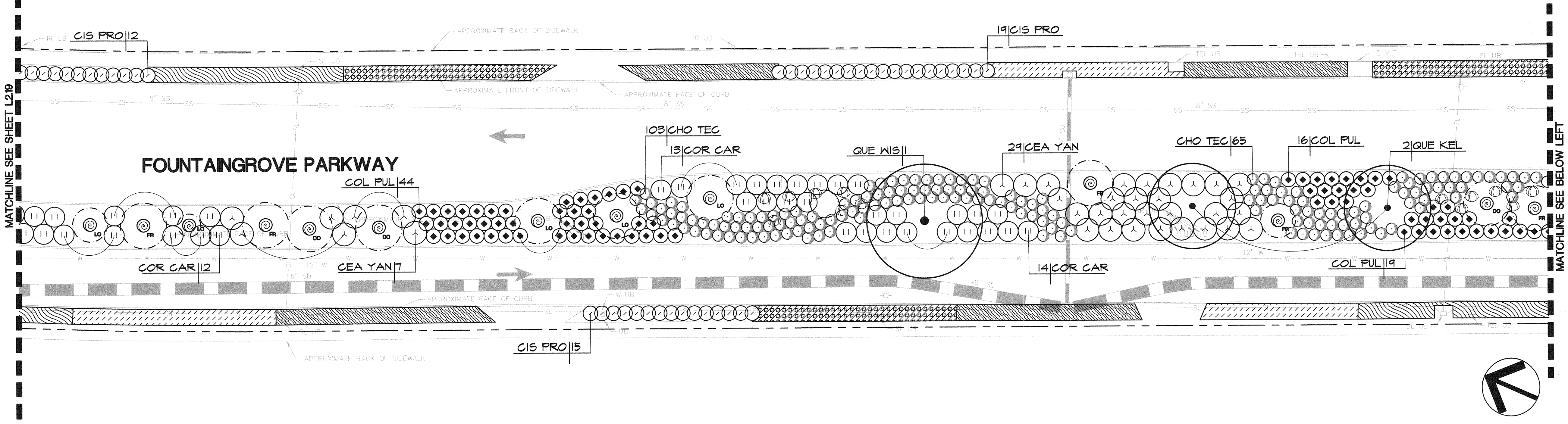
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CITY OF SANTA ROSA	PLANTING PLAN
FIRE DAMAGED ROADWAY LANDSCAPING	
CONTRACT NO. C02300	
SHEET 123 OF 139	FILE NO. 2020-0011



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NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021	CHK BY: MR
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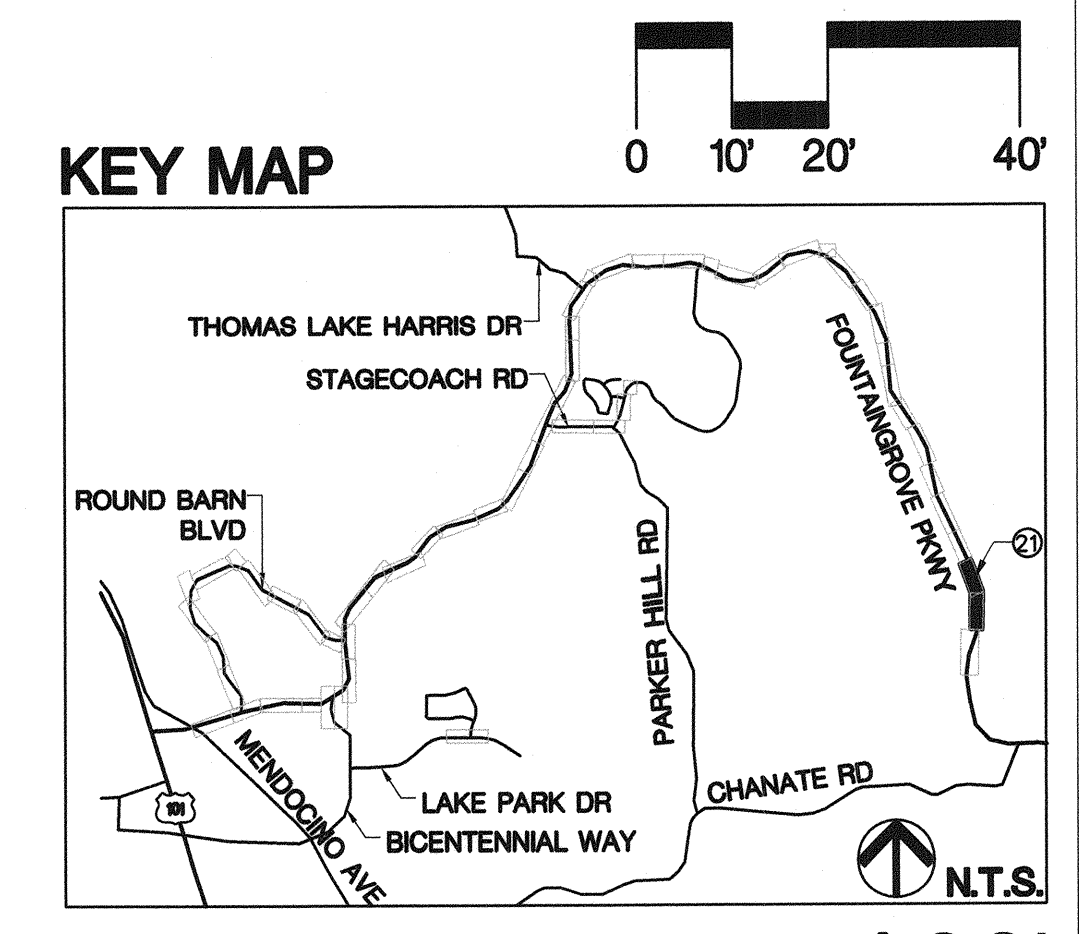
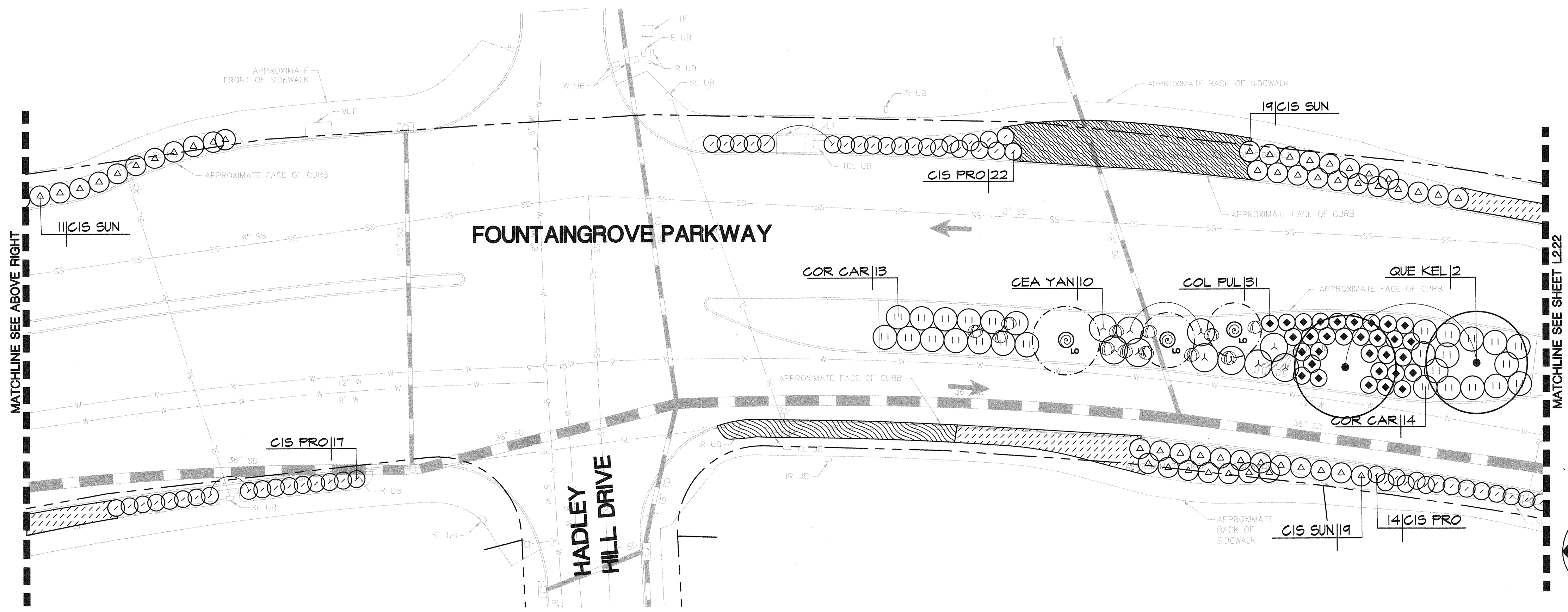
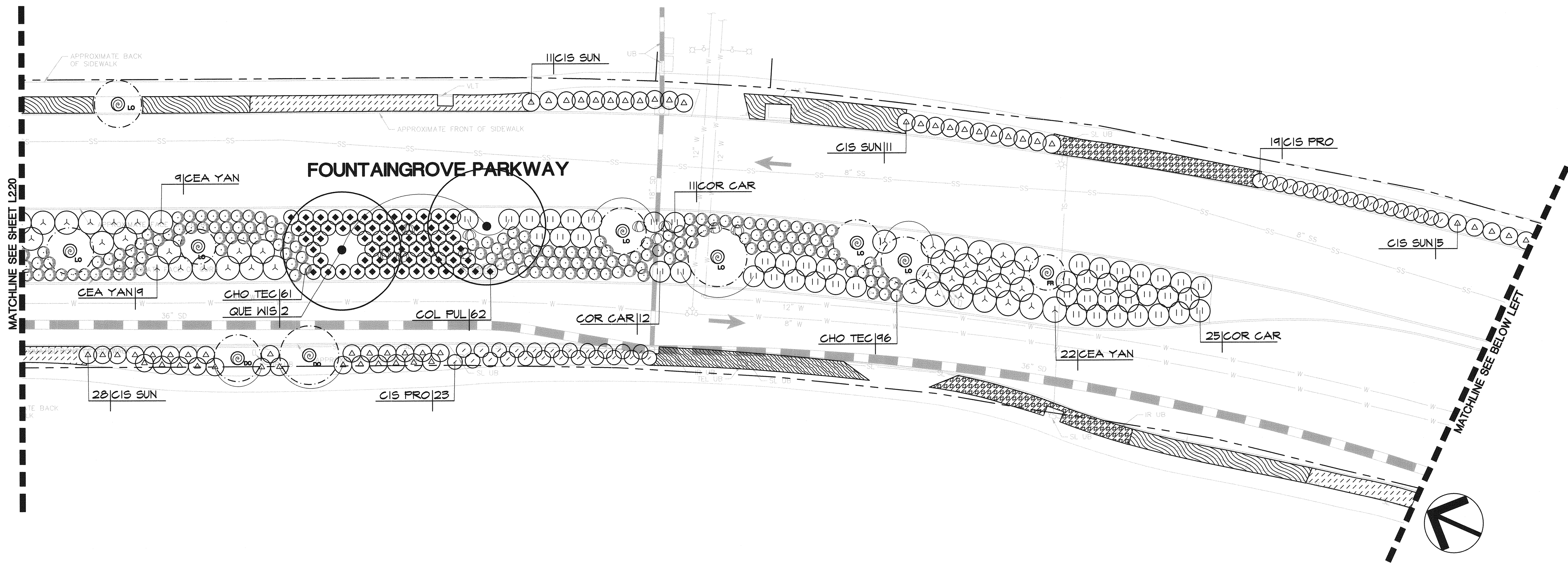
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING

PLANTING PLAN

CONTRACT NO. C02300
 SHEET 124 OF 139
 FILE NO. 2020-0011

L2.20

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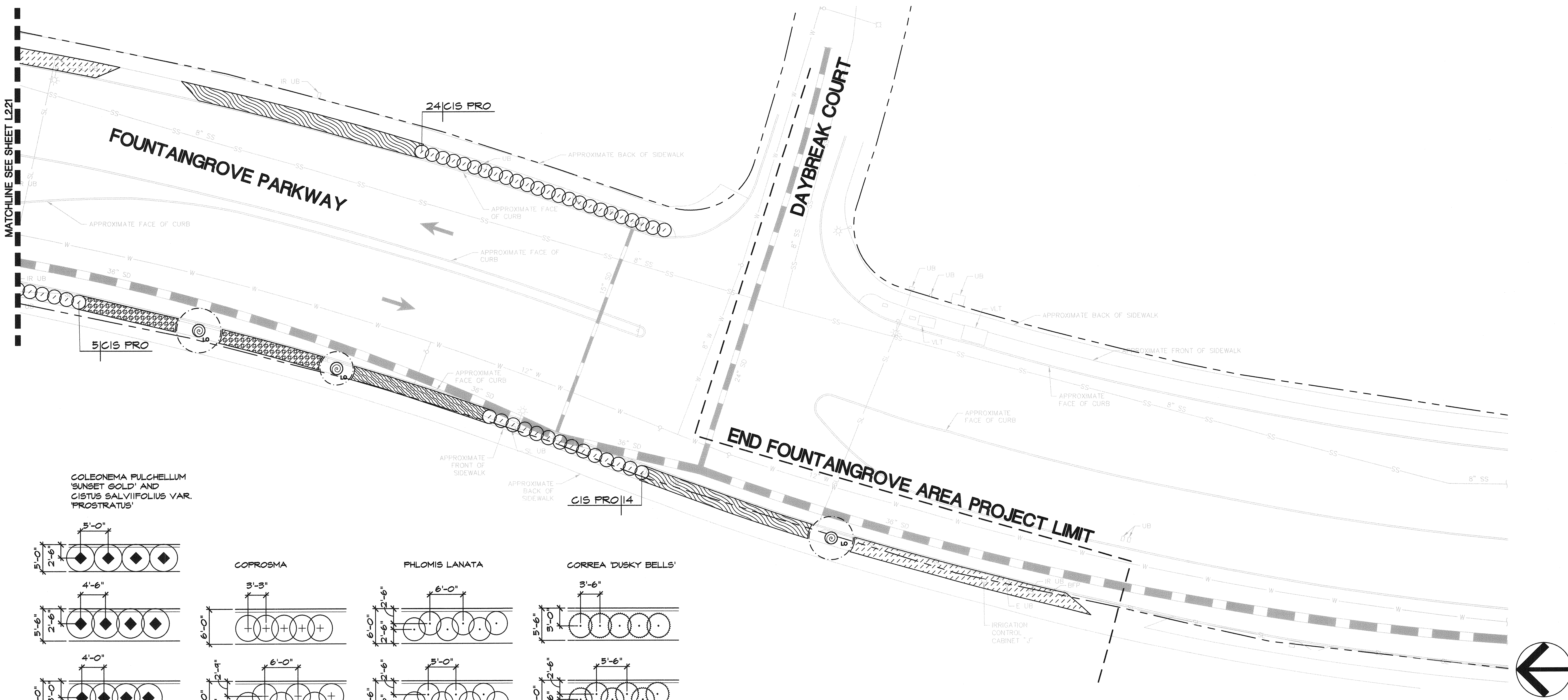
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 125 OF 139
 FILE NO. 2020-0011
L2.21

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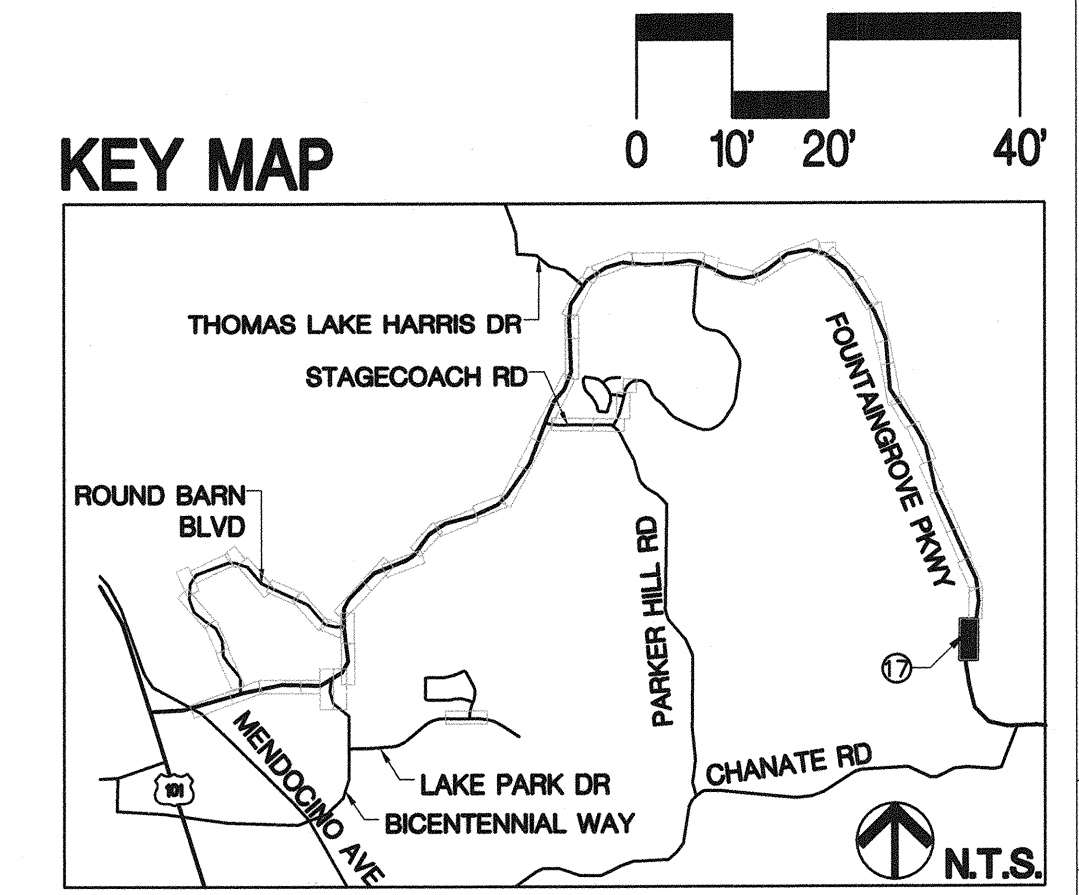
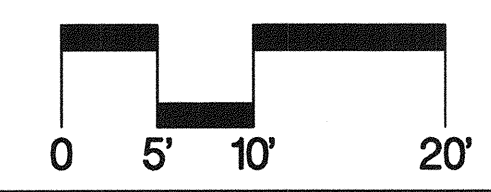
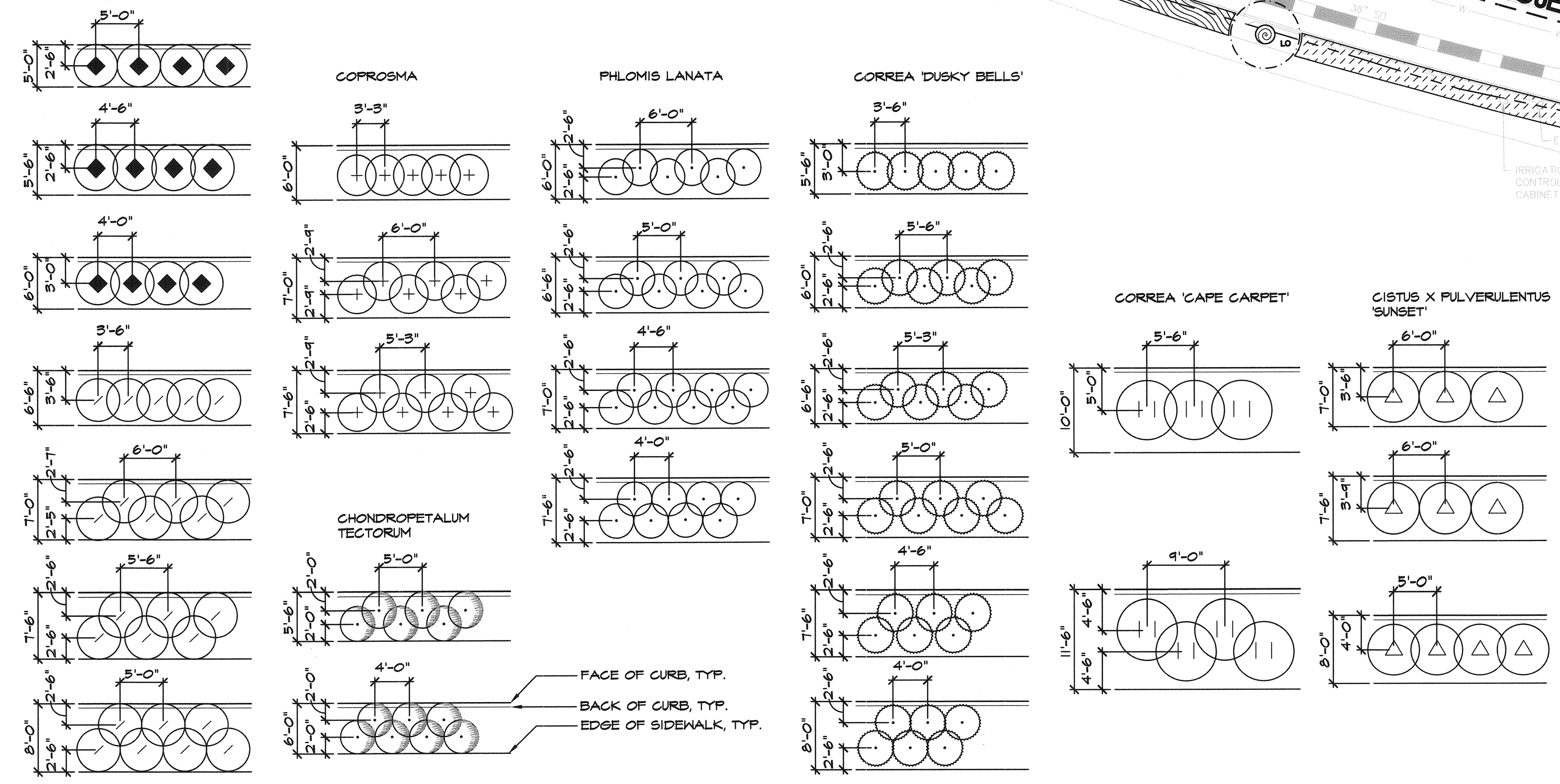
NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: 05/14/2021
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CITY OF SANTA ROSA	CONTRACT NO. C02300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 126 OF 139
PLANTING PLAN	FILE NO. 2020-0011



COLEONEMA PULCHELLUM 'SUNSET GOLD' AND CISTUS SALVIFOLIUS VAR. PROSTRATUS



1 PLANT SPACING IN NARROW RIGHT OF WAY
L222 PLAN
 FOR PLANTING LEGEND AND NOTES
 SEE SHEET LN2.00

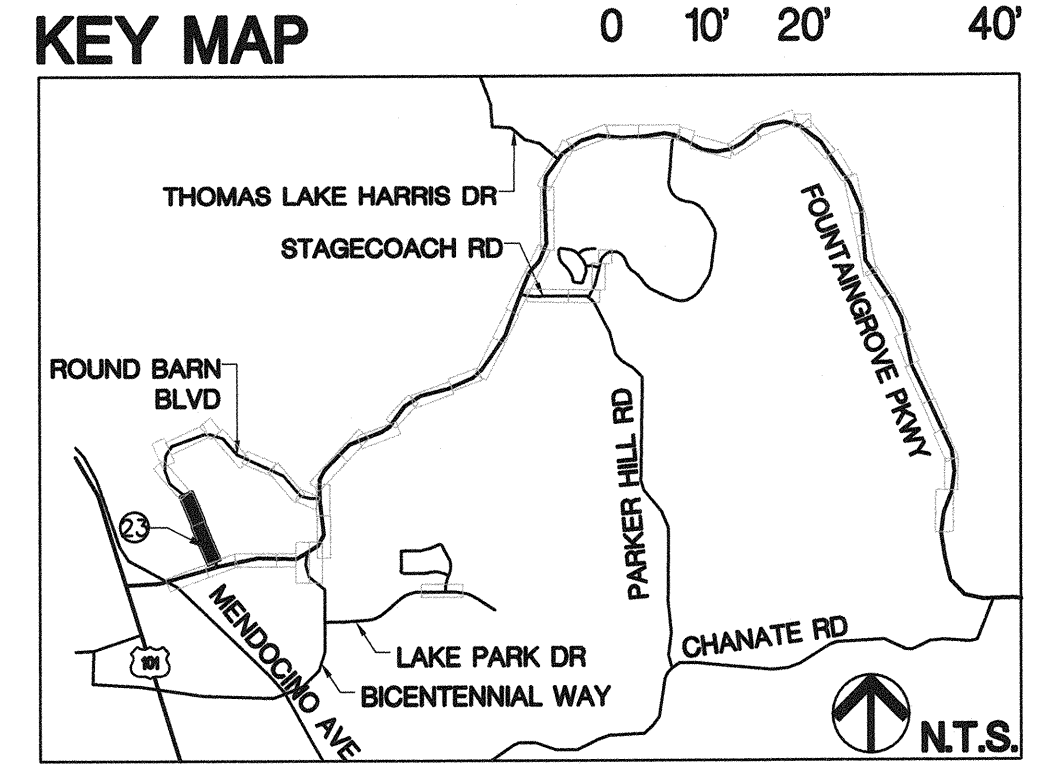
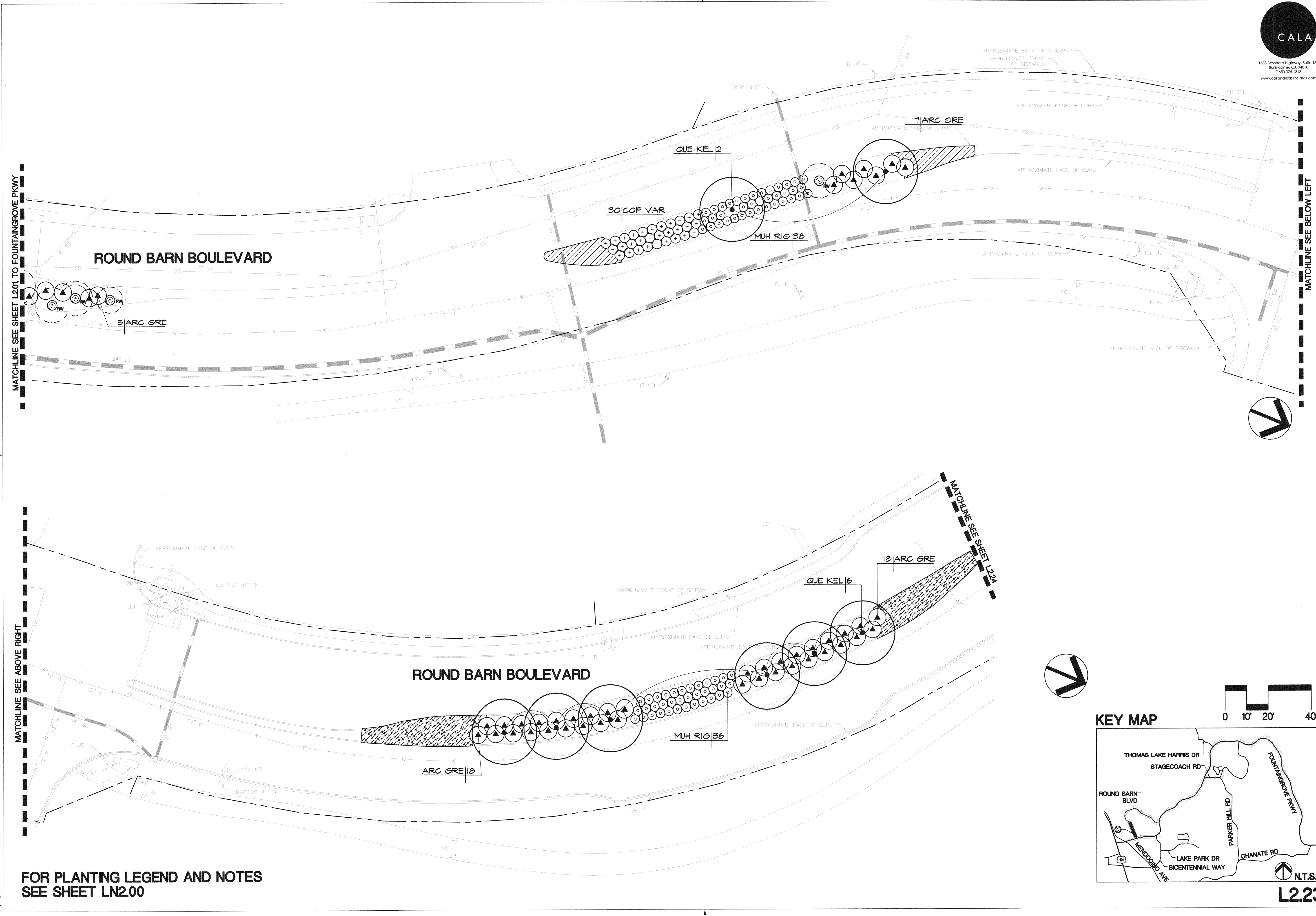
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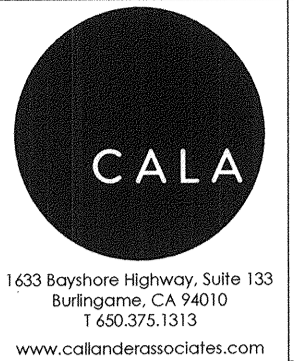
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CITY OF SANTA ROSA	CONTRACT NO. C02300
FIRE DAMAGED ROADWAY LANDSCAPING	SHEET 127 OF 139
PLANTING PLAN	FILE NO. 2020-0011

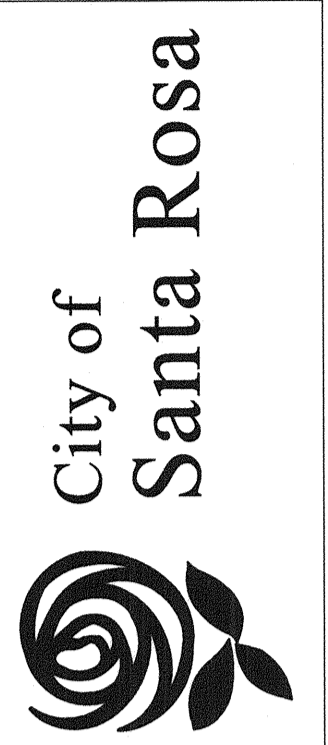
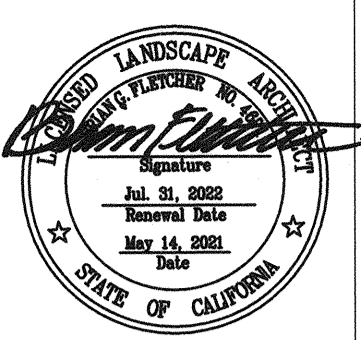


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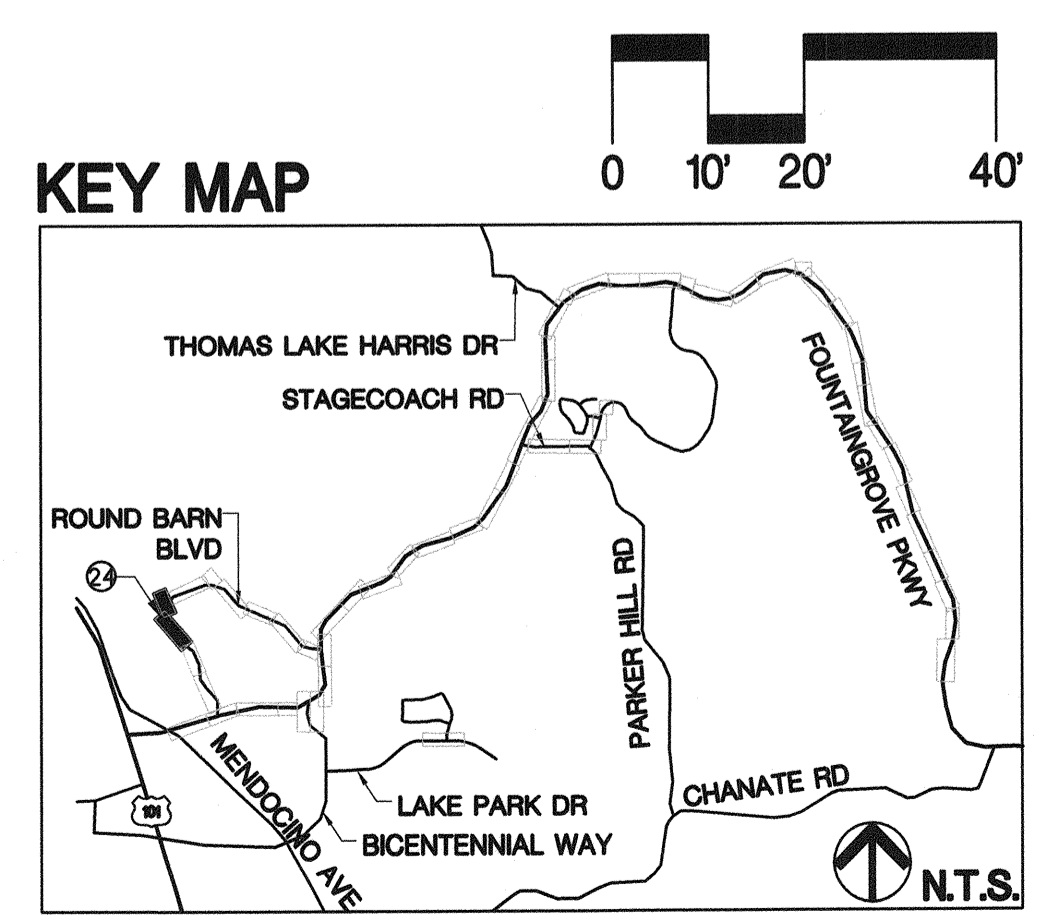
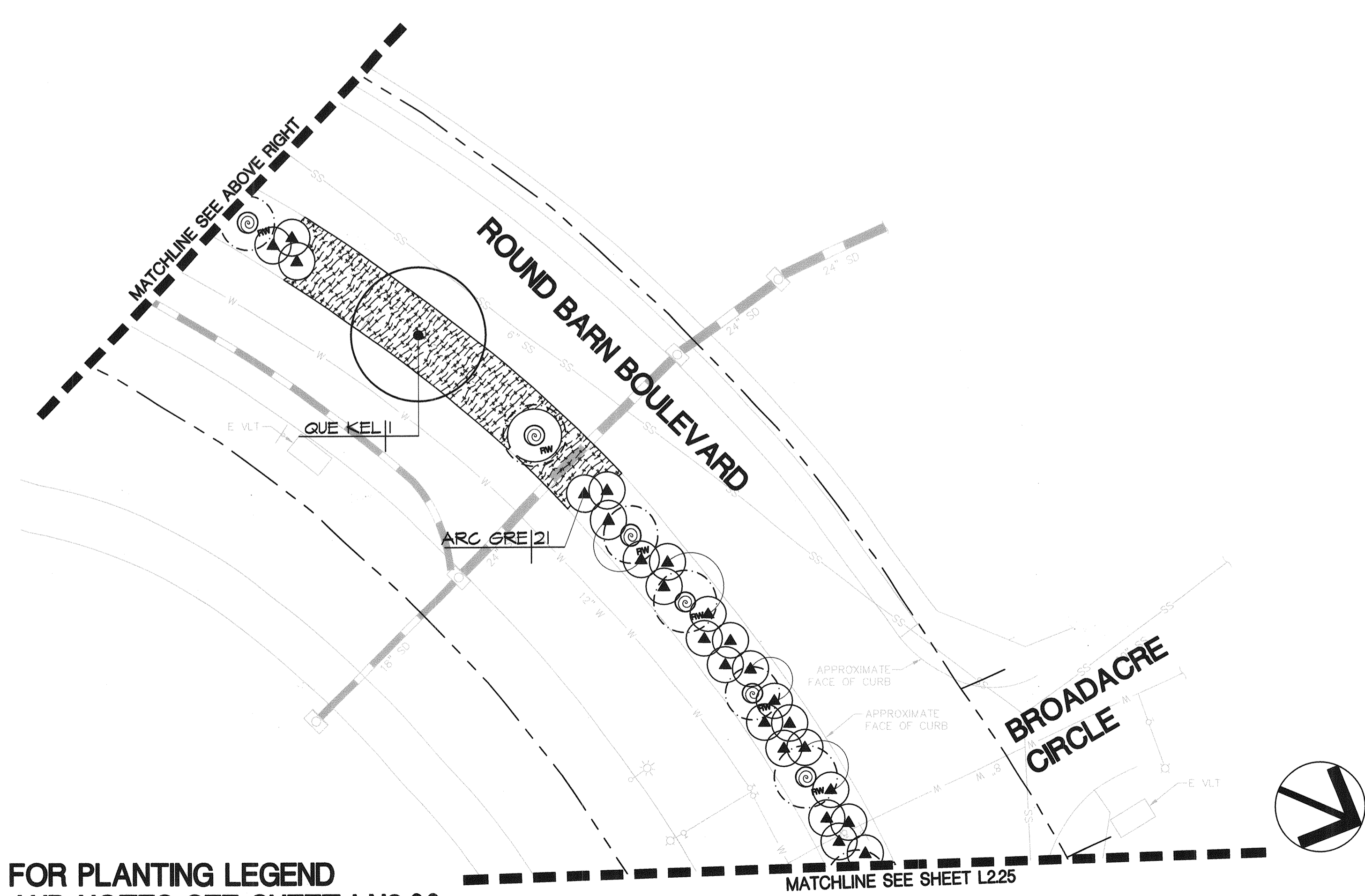
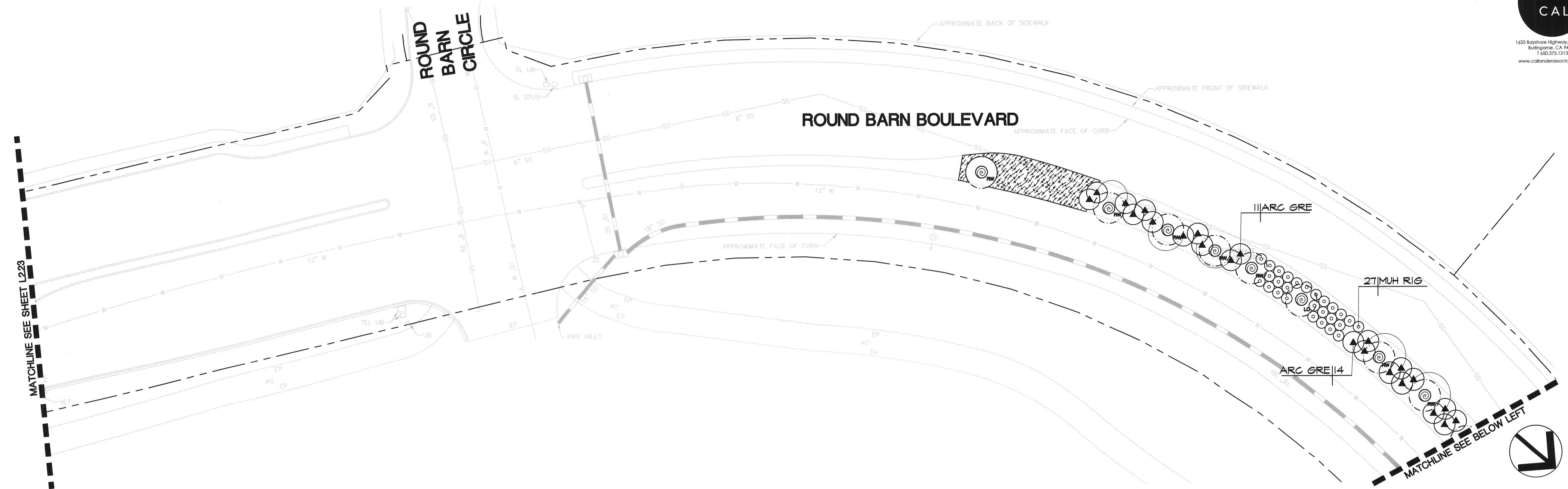
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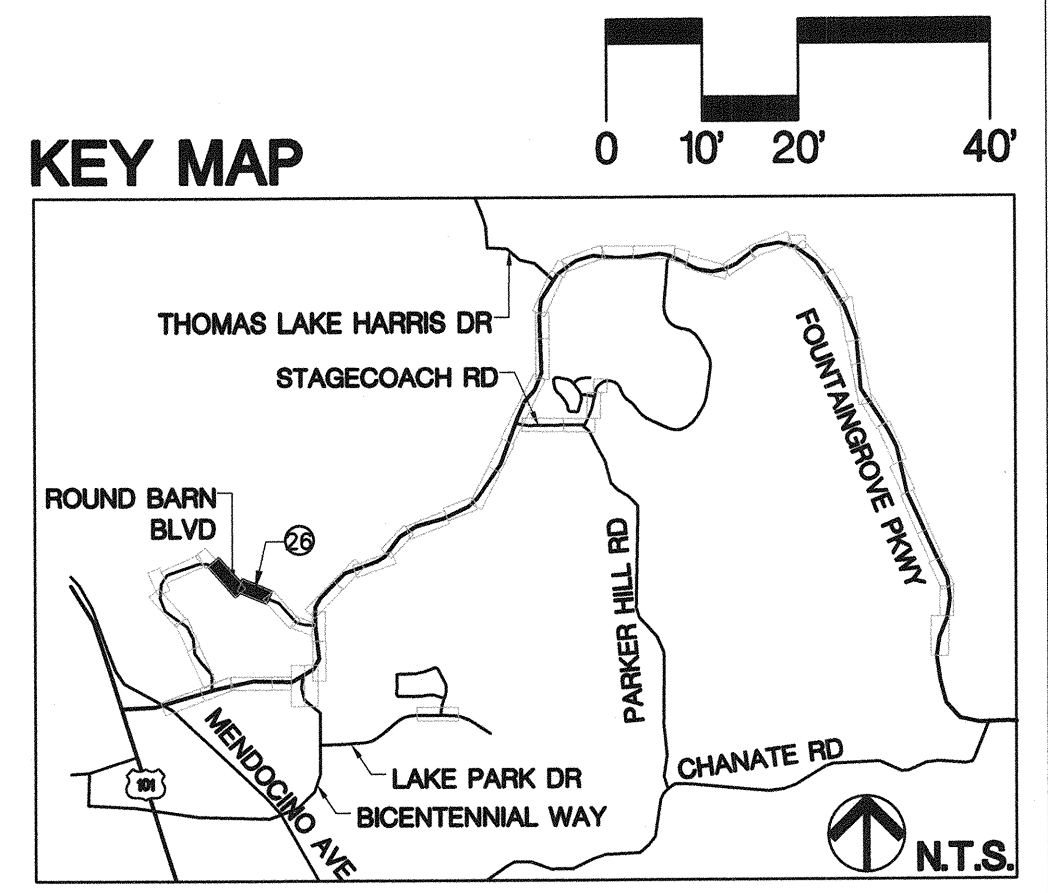
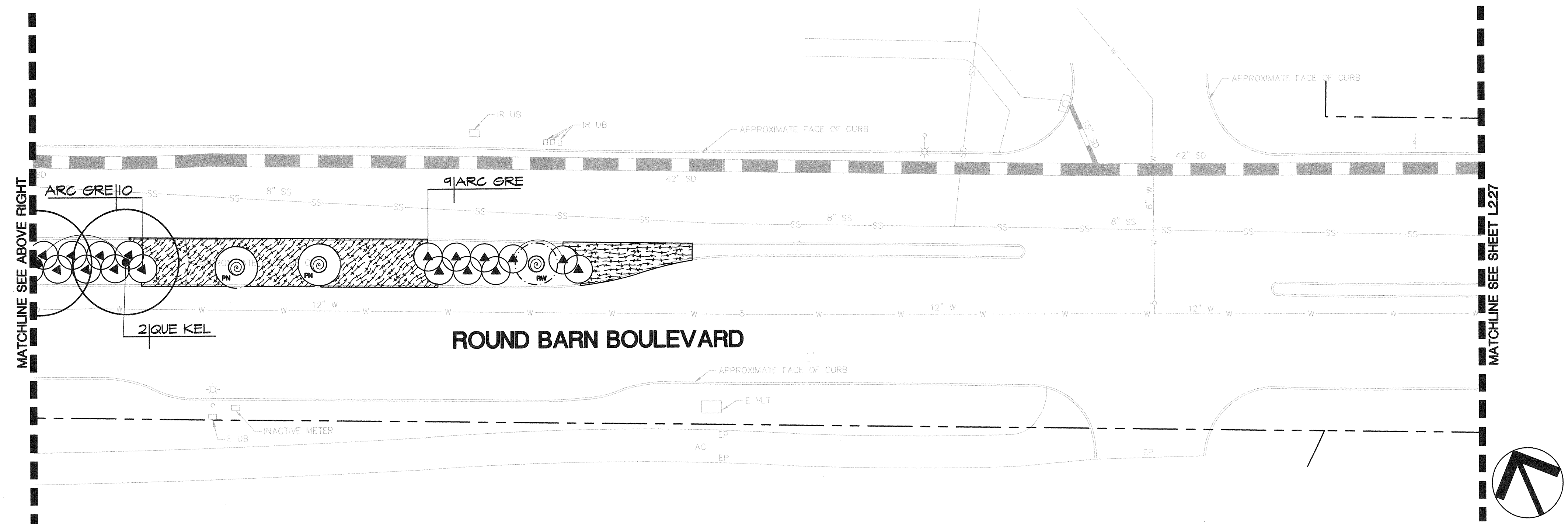
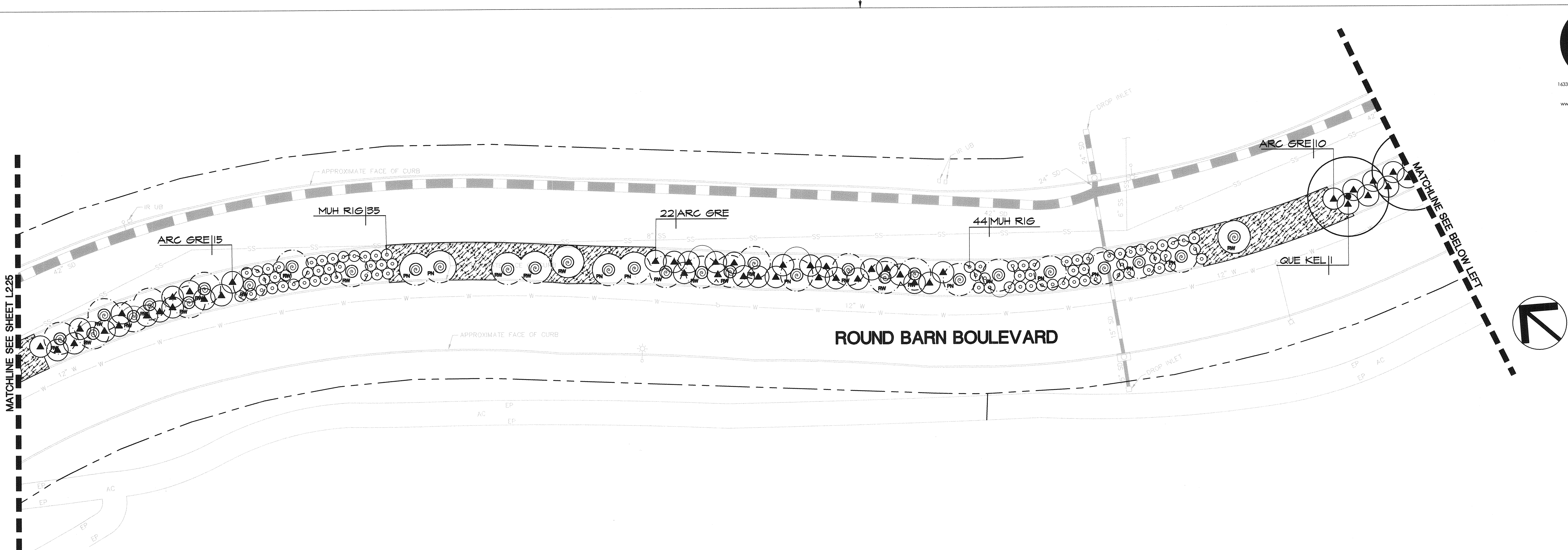
CITY OF SANTA ROSA	DATE: 05/14/2021	CHK BY: MR
FIRE DAMAGED ROADWAY LANDSCAPING	SCALE: AS SHOWN	DWN BY: DC
PLANTING PLAN		

CONTRACT NO. C02300
SHEET 128 OF 139
FILE NO. 2020-0011



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AND NOTES SEE SHEET LN2.00

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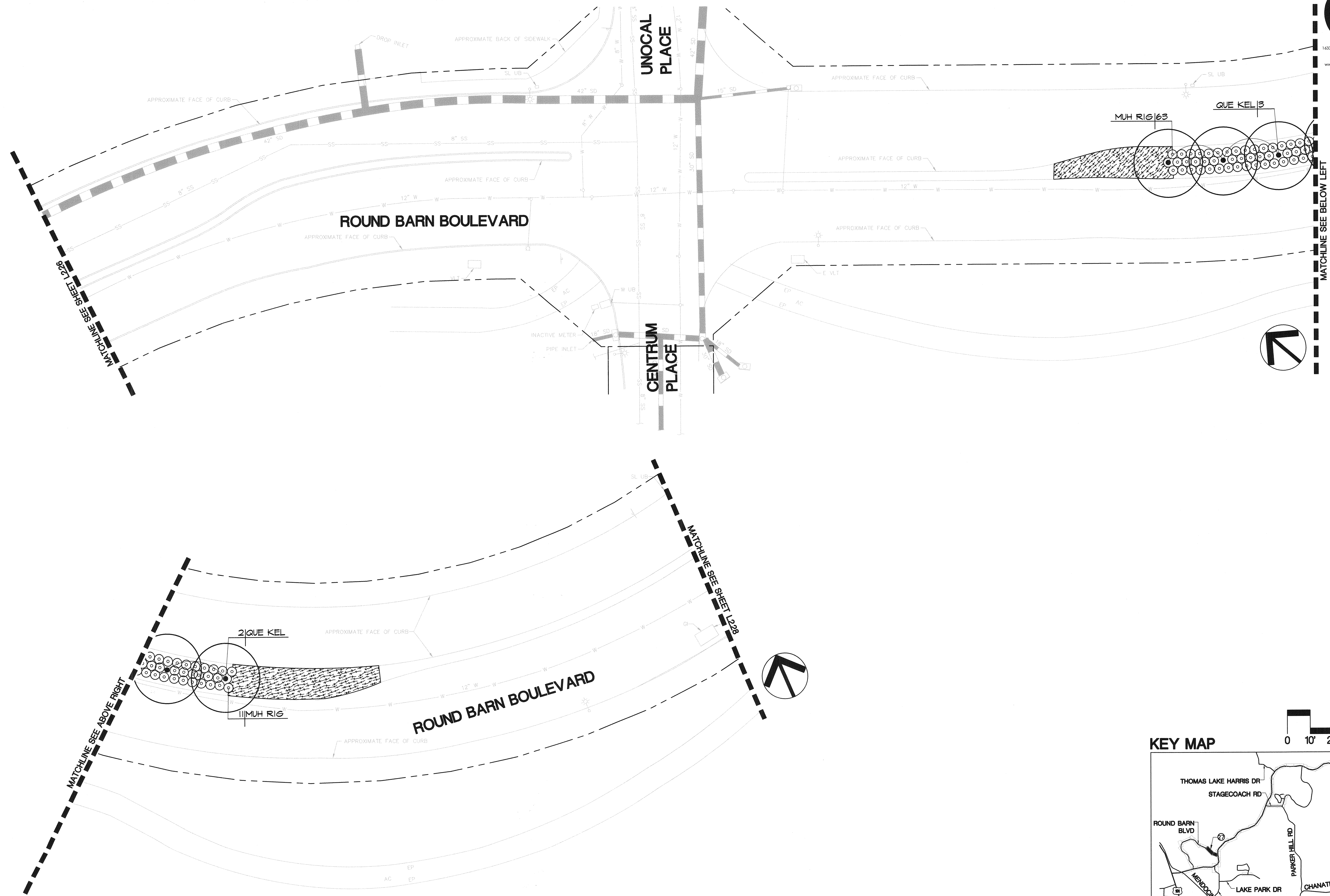
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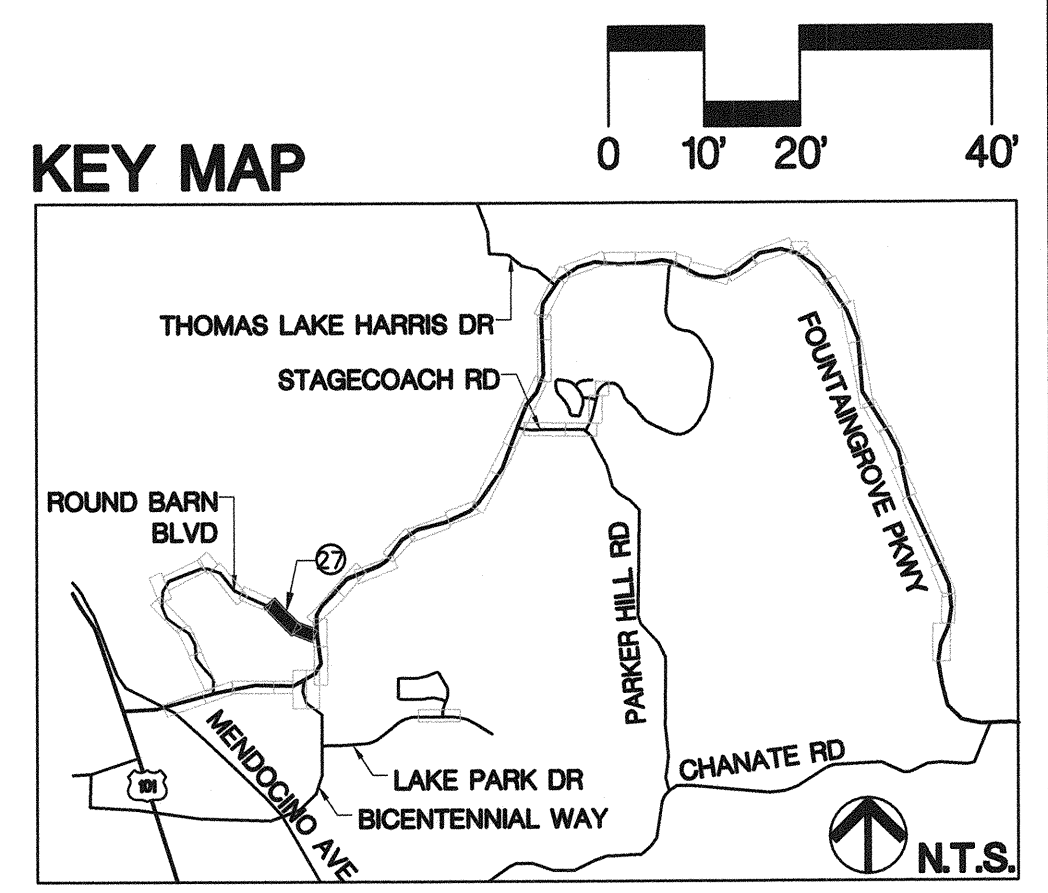
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 130 OF 139
L2.26
 FILE NO. 2020-0011

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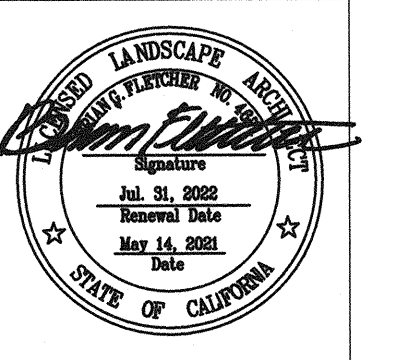
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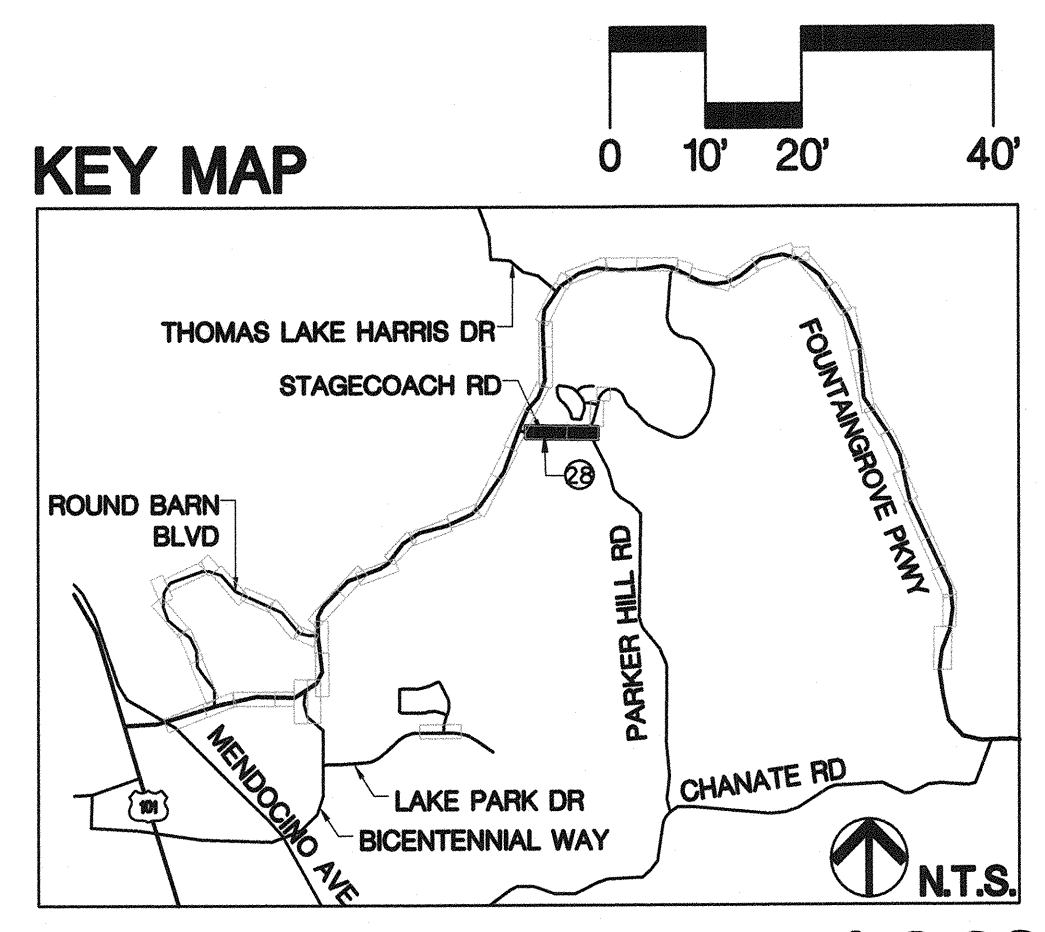
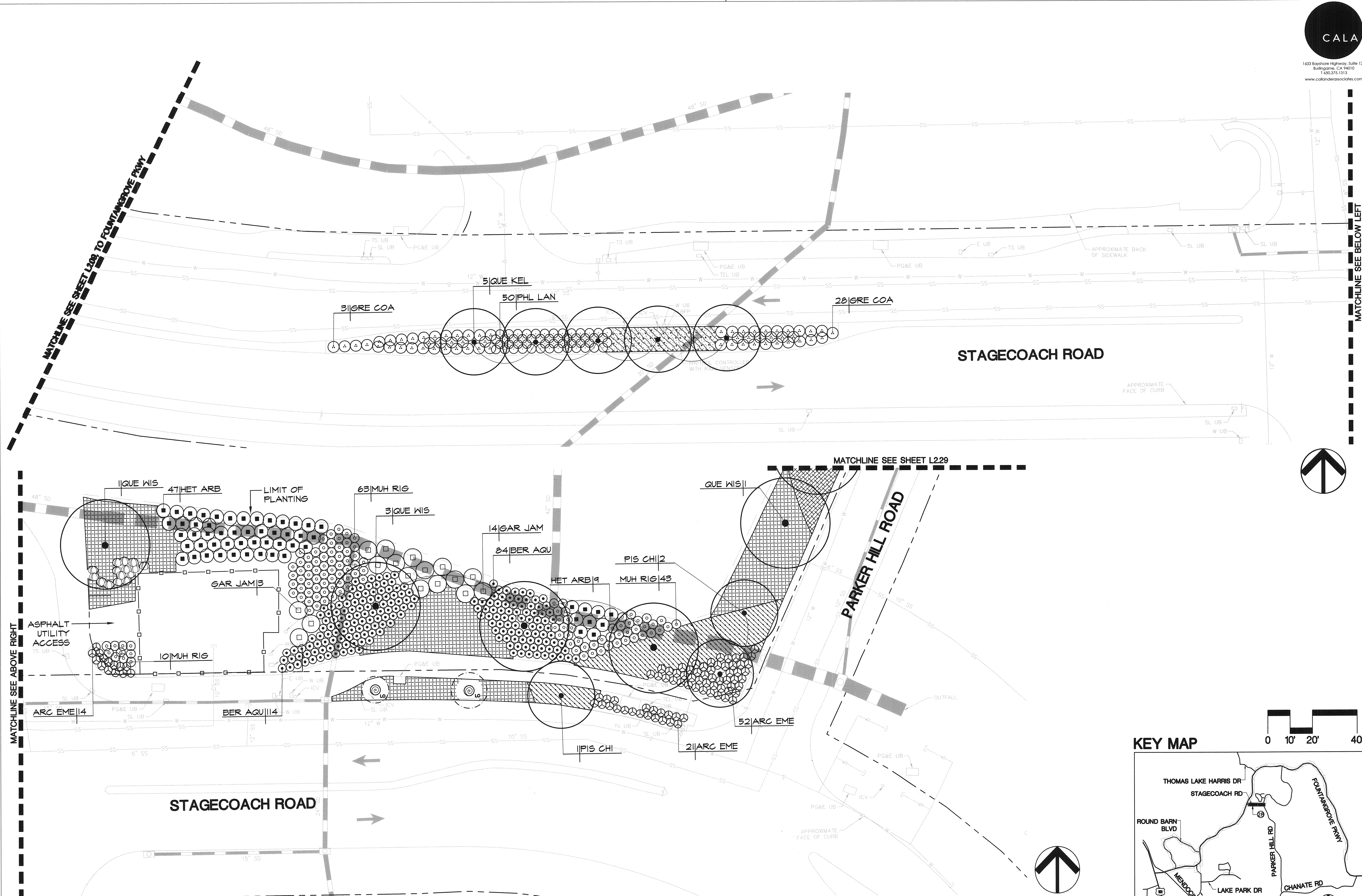
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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING

PLANTING PLAN

CONTRACT NO.
C02300
 SHEET 131 OF 139
 FILE NO. 2020-0011

L2.27



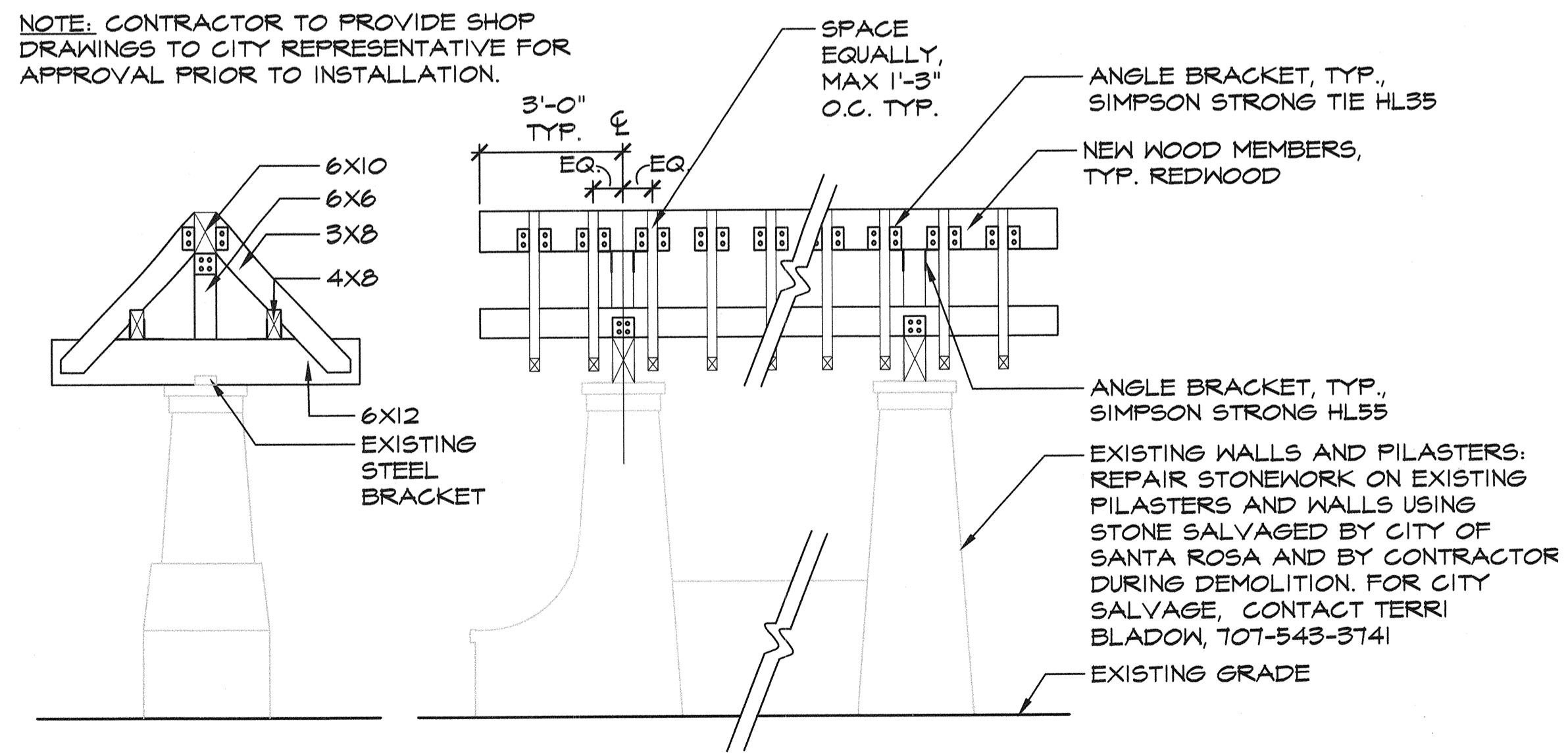
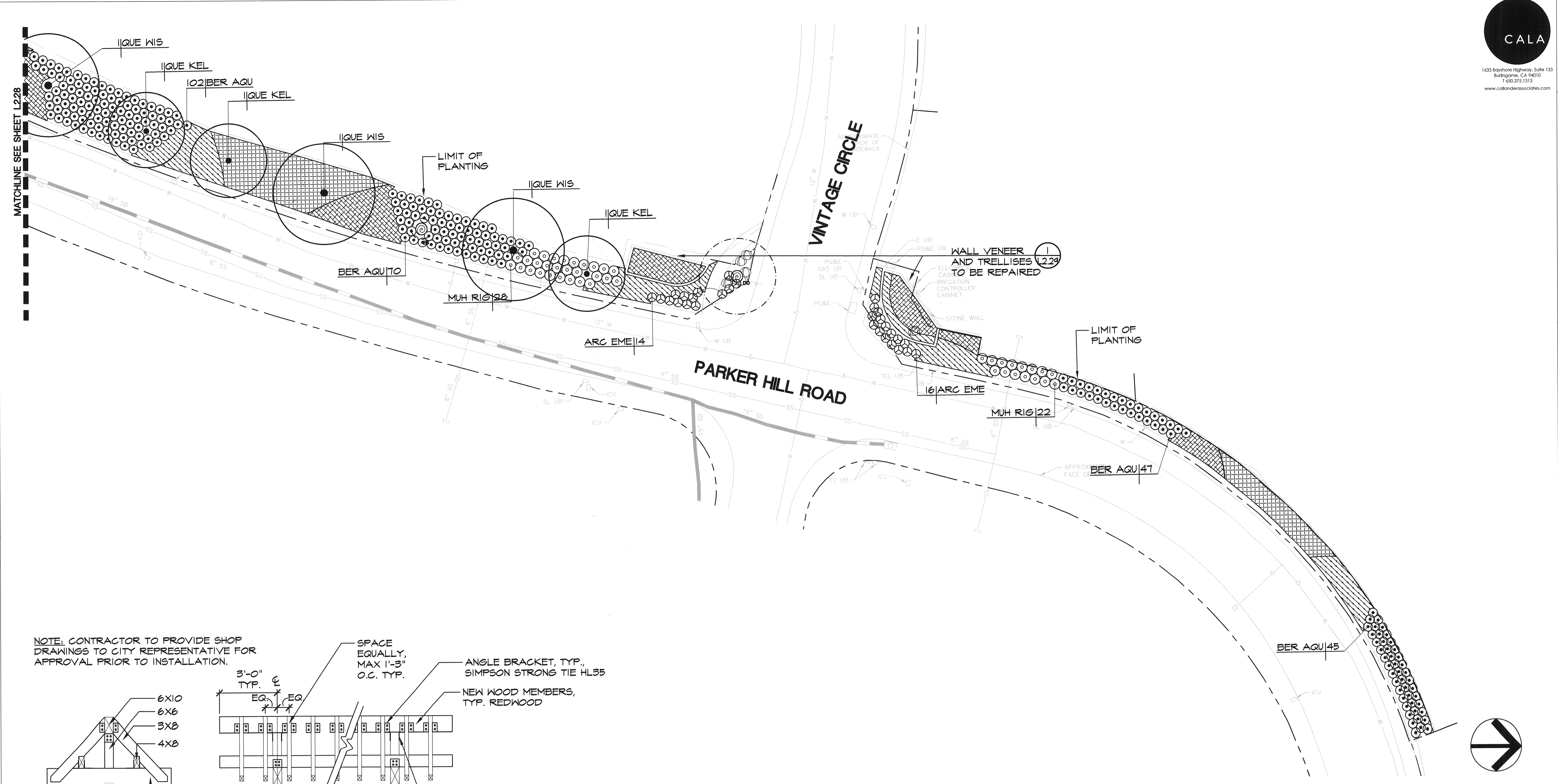
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NO.	DATE	REVISION	BY

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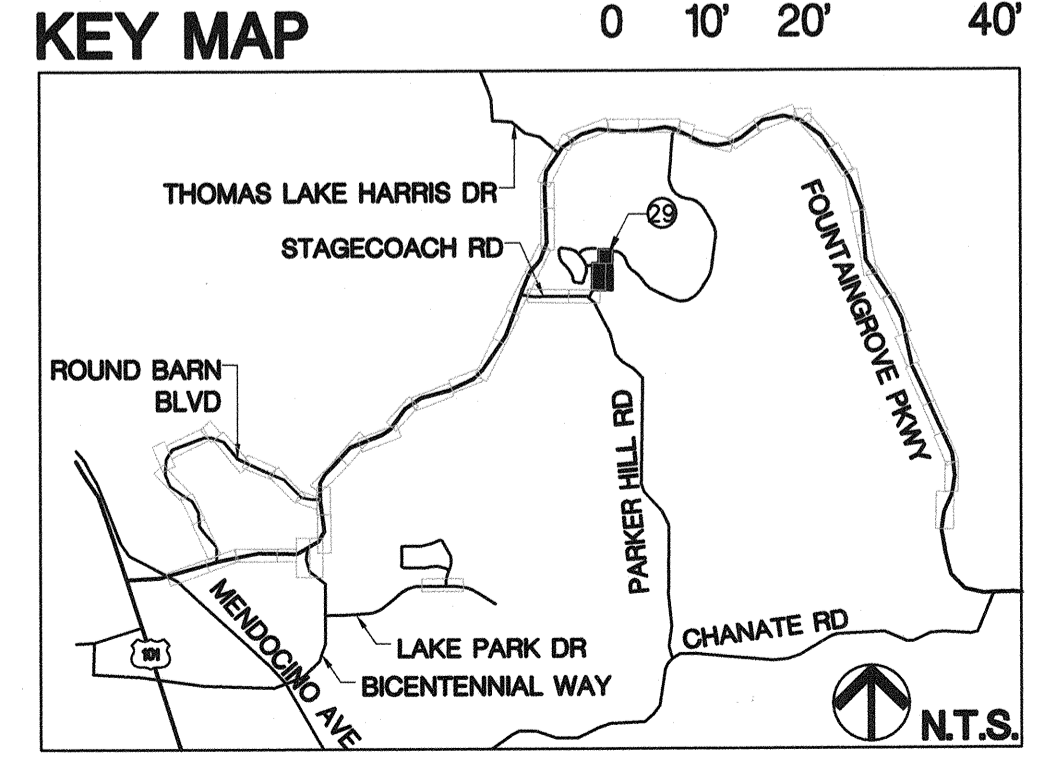
CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 132 OF 139
L2.28
 FILE NO. 2020-0011

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1 VINTAGE PLACE TRELLIS REPAIR ELEVATION N.T.S.

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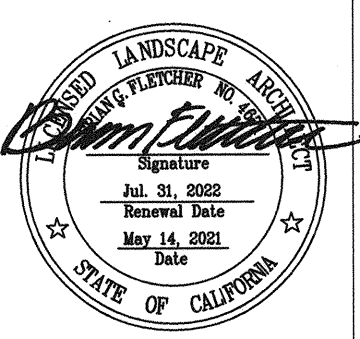
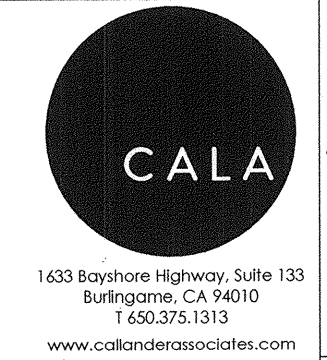
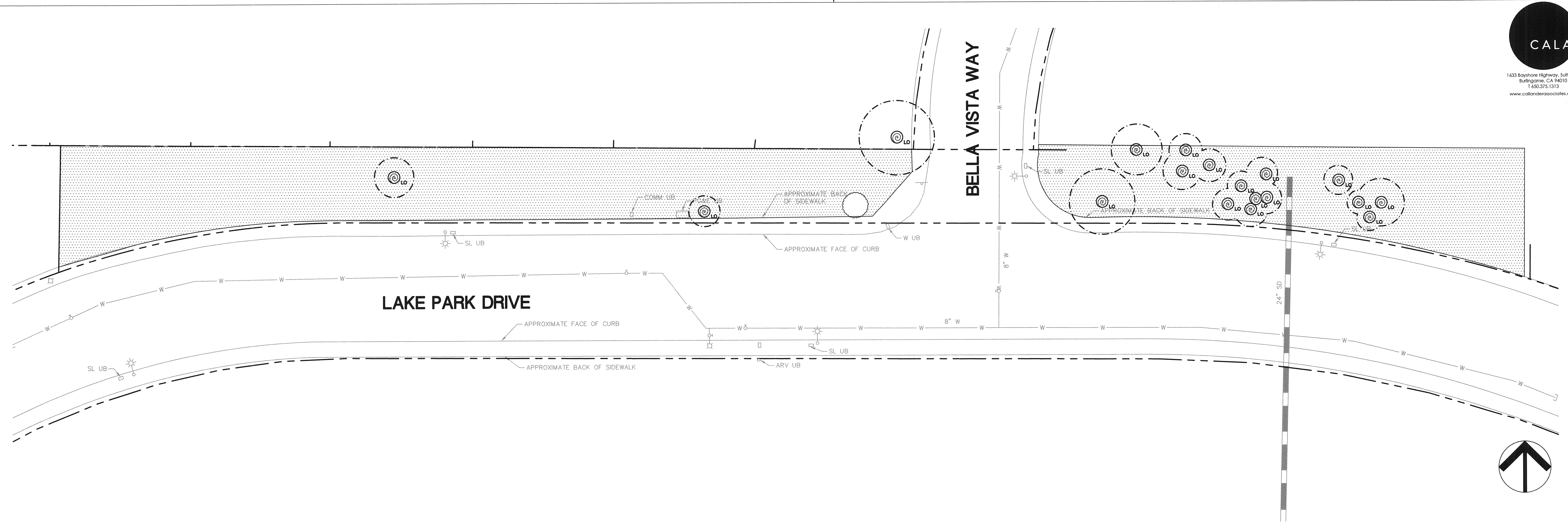


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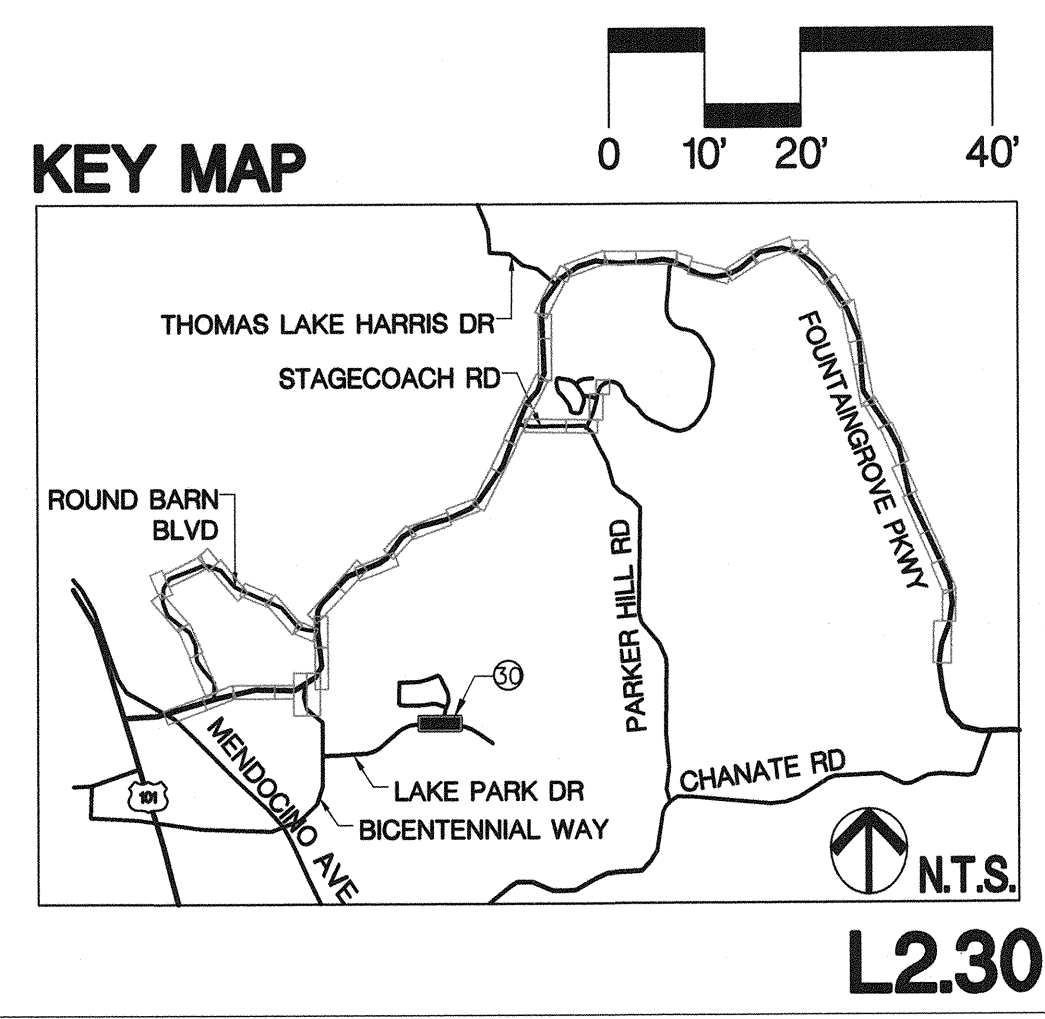
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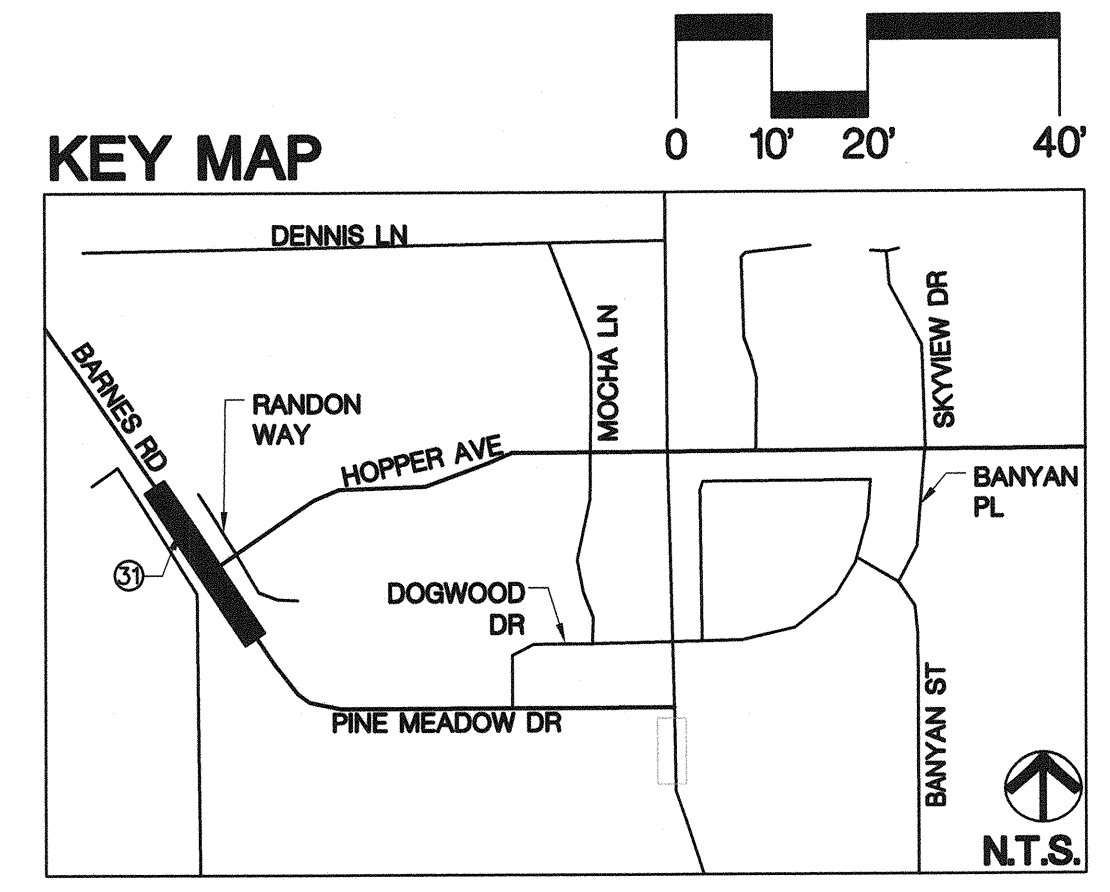
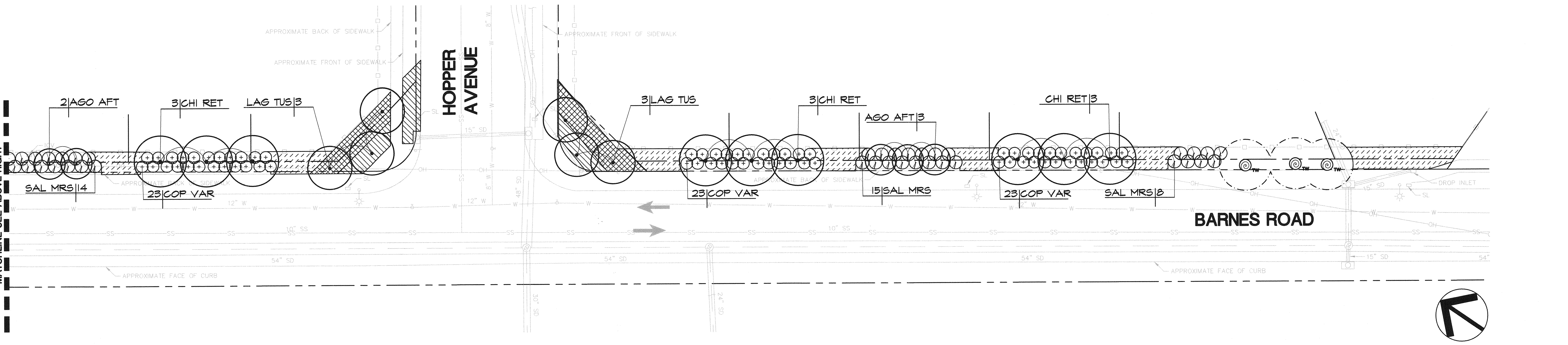
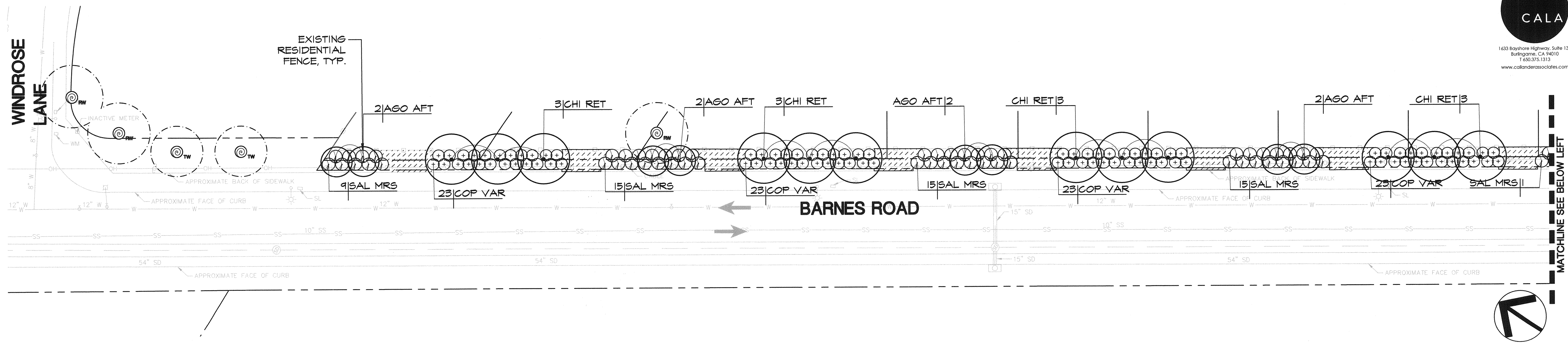
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CITY OF SANTA ROSA
 FIRE DAMAGED ROADWAY LANDSCAPING
PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 134 OF 139
 FILE NO. 2020-0011

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L2.30



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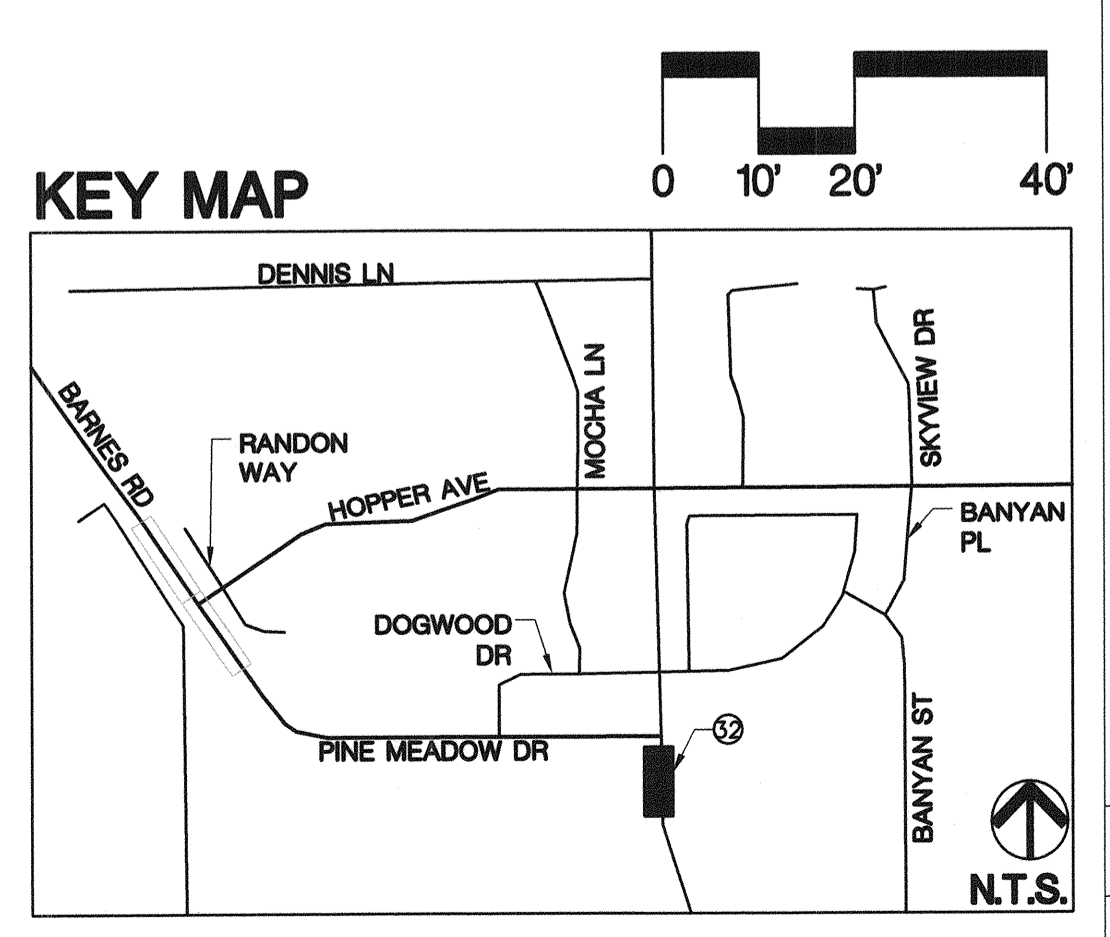
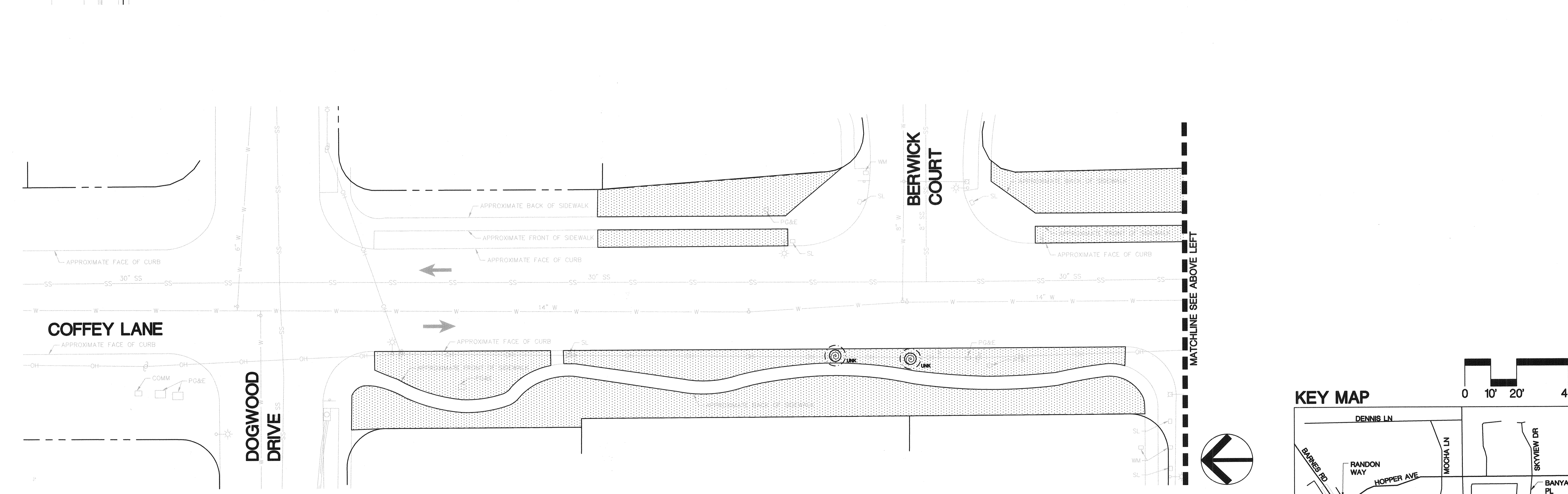
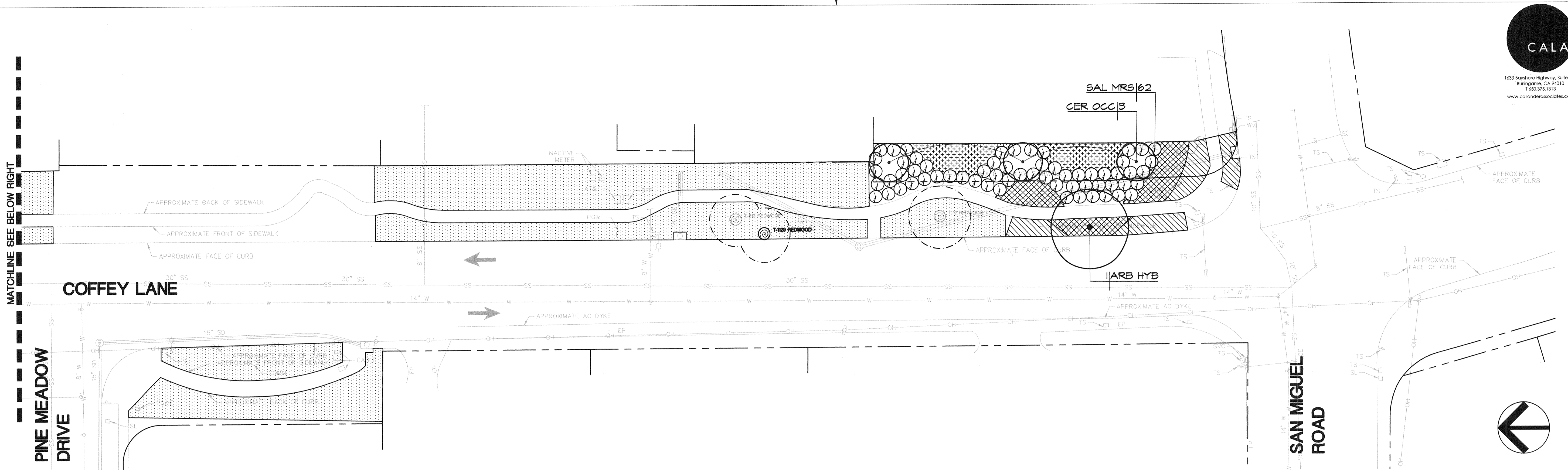
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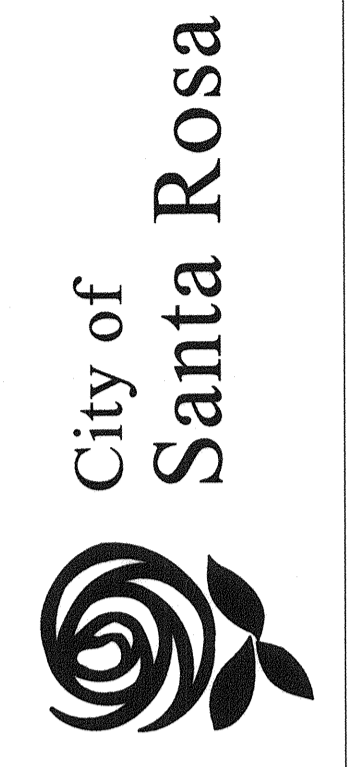
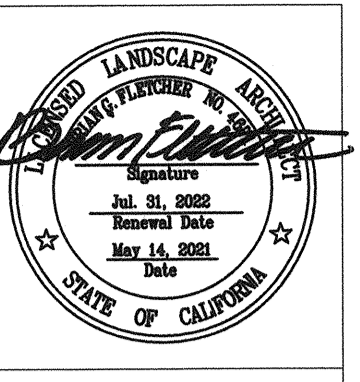
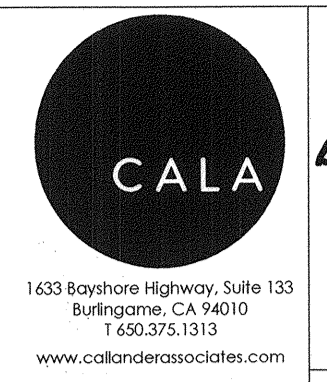
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 FIRE DAMAGED ROADWAY LANDSCAPING
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 CONTRACT NO. C02300
 SHEET 135 OF 139
 FILE NO. 2020-0011

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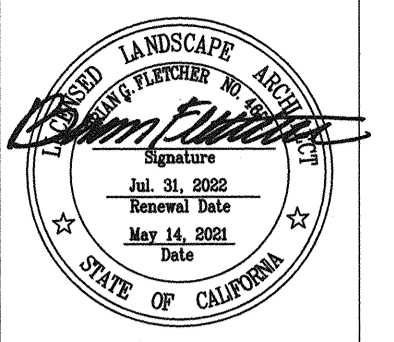
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PLANTING PLAN
 CONTRACT NO. C02300
 SHEET 136 OF 139
 FILE NO. 2020-0011

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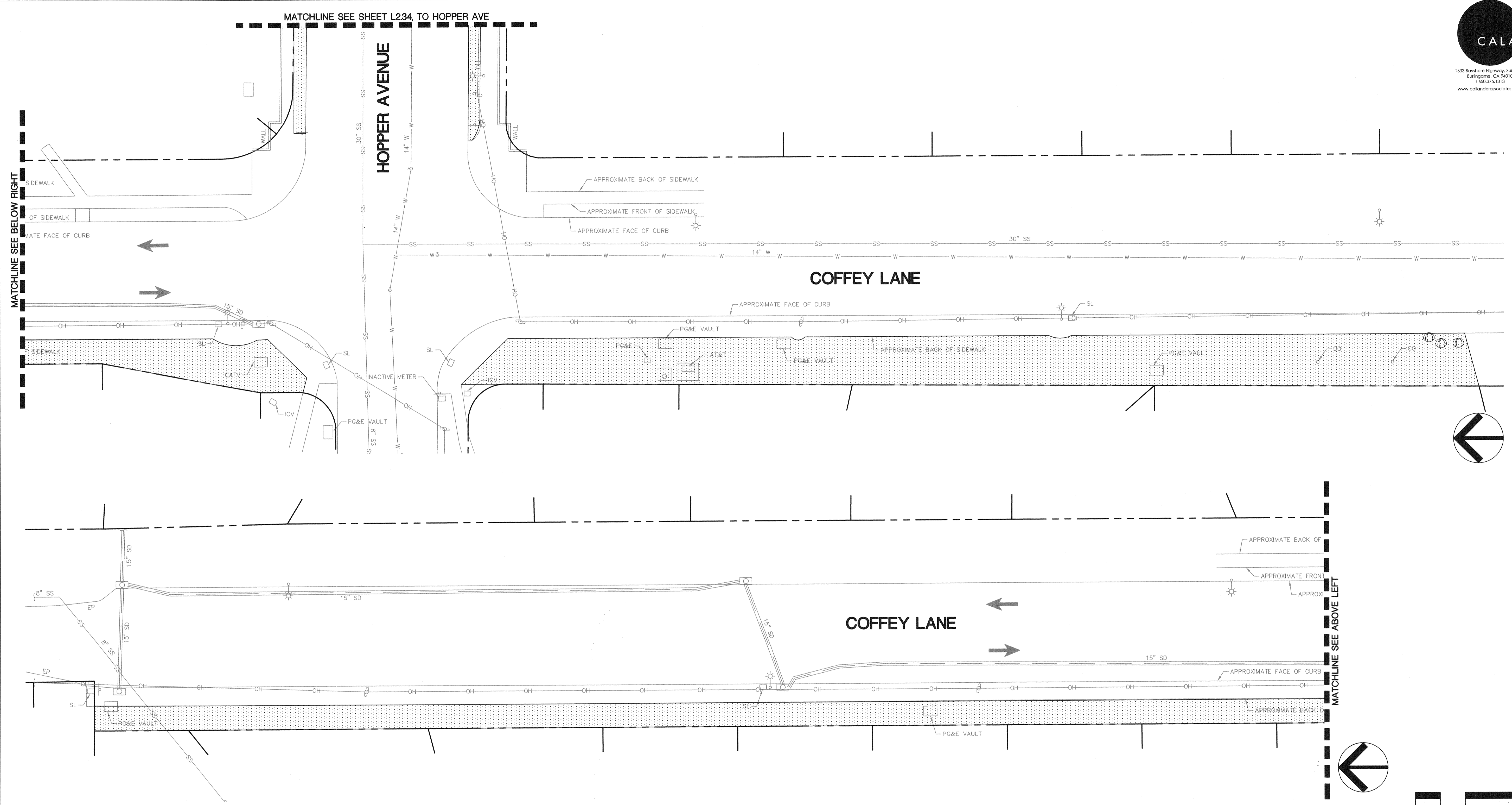
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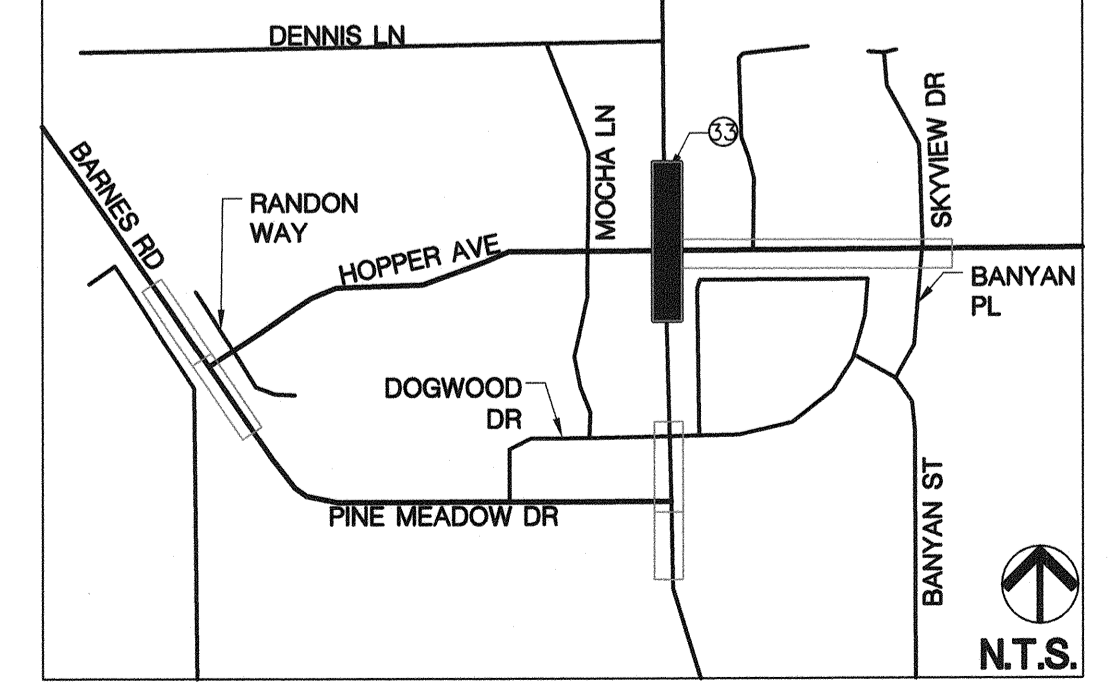
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PLANTING PLAN

CONTRACT NO. C02300
SHEET 137 OF 139
FILE NO. 2020-0011



KEY MAP



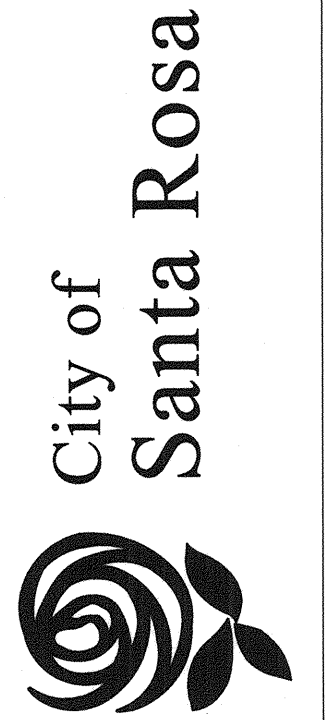
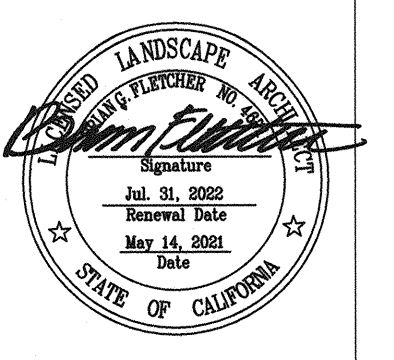
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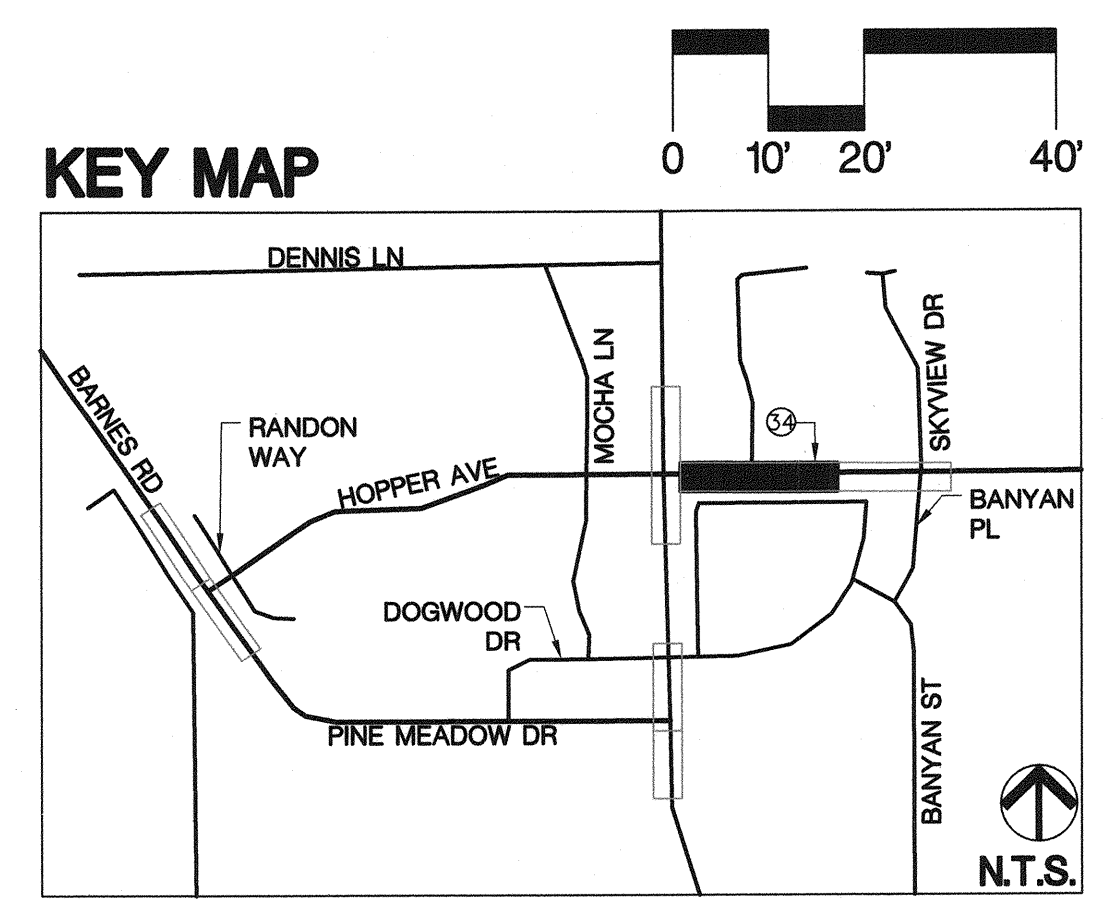
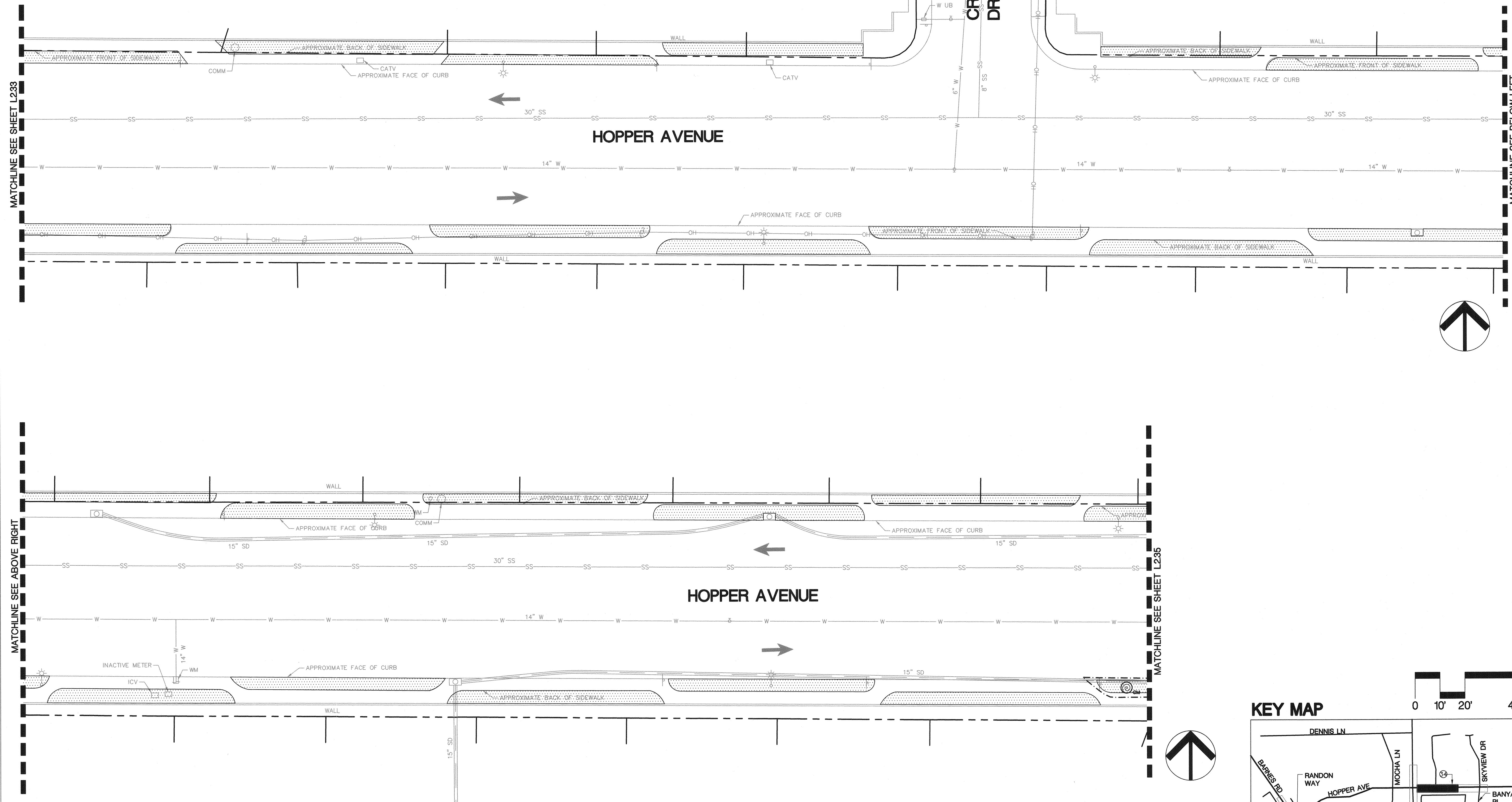
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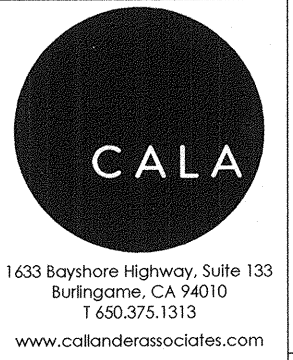
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PLANTING PLAN
CONTRACT NO. C02300
SHEET 138 OF 139
FILE NO. 2020-0011



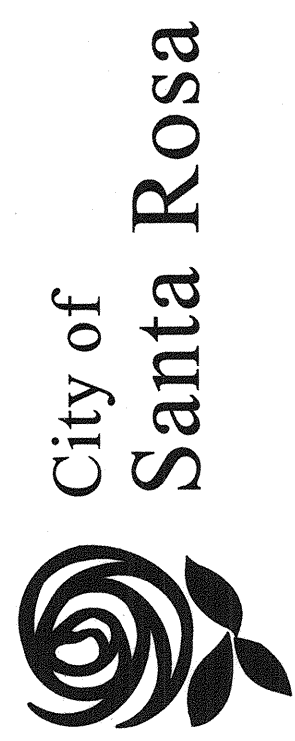
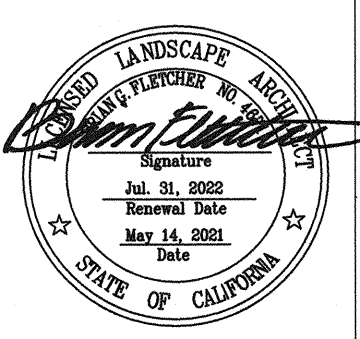
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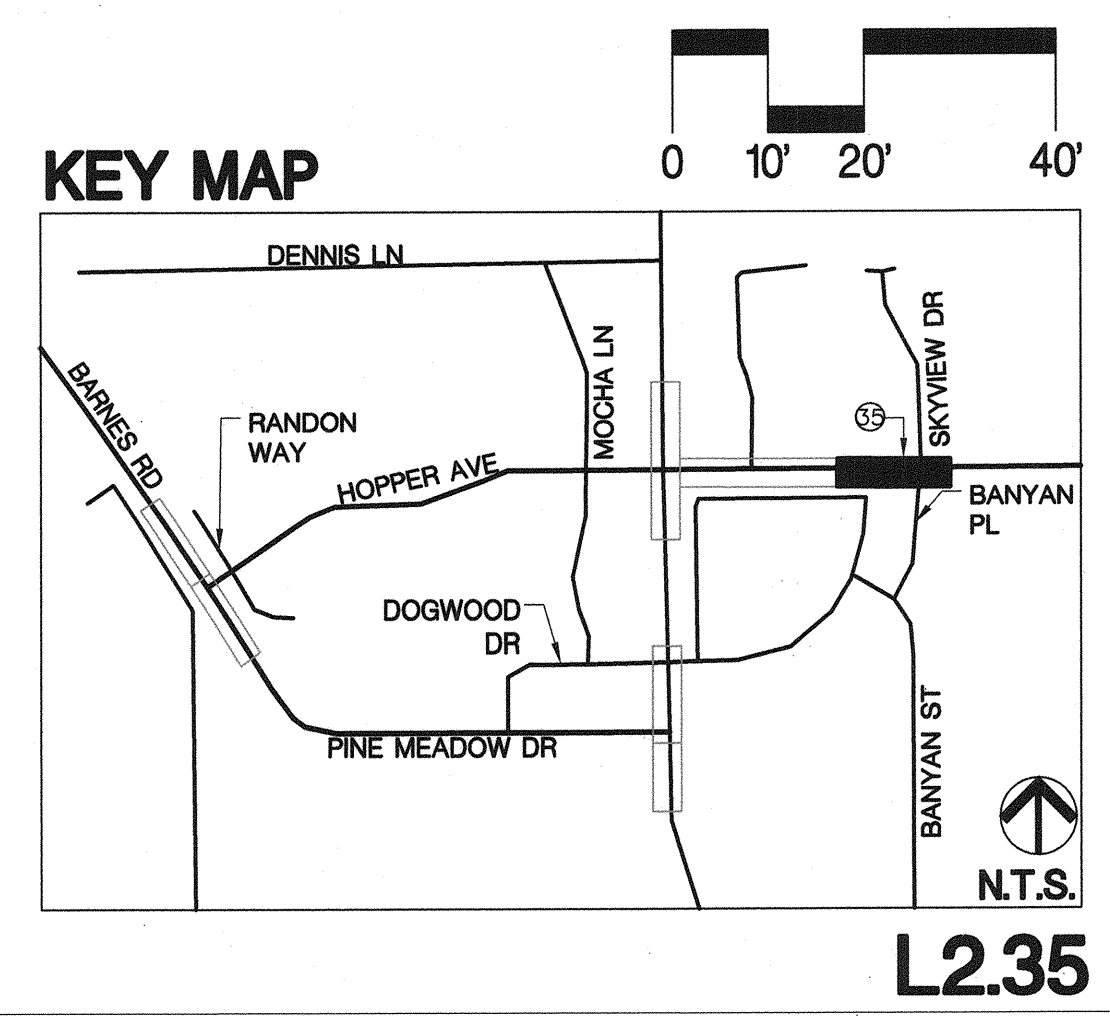
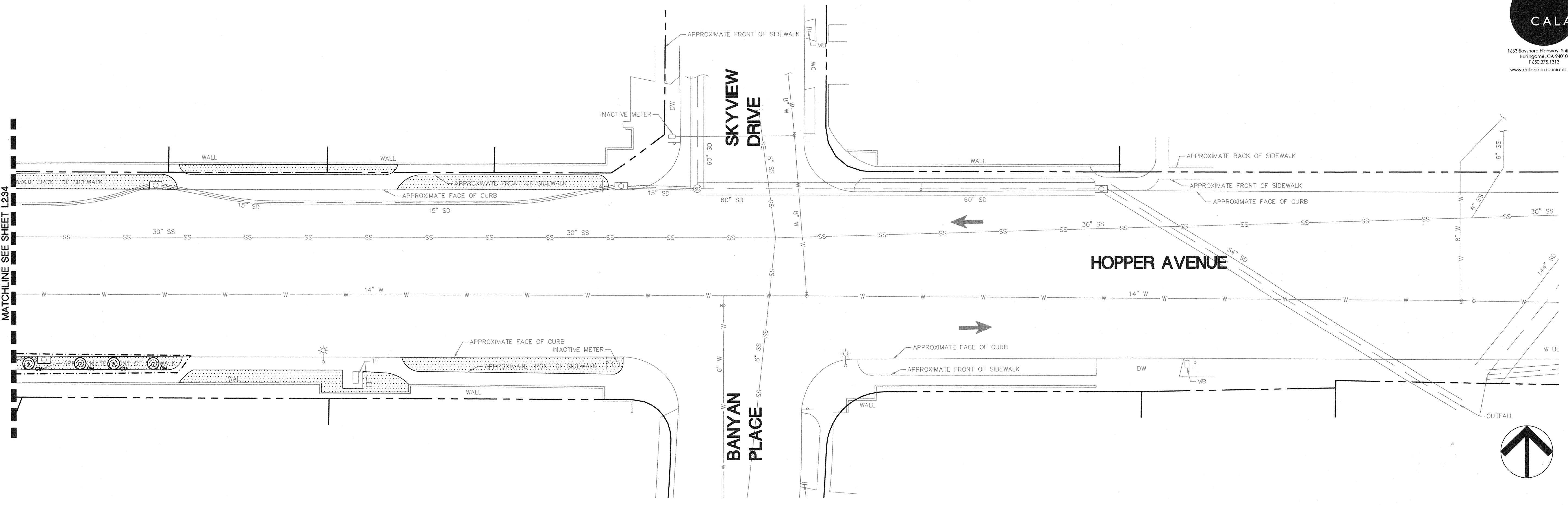


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PLANTING PLAN
CONTRACT NO. C02300
SHEET 139 OF 139
FILE NO. 2020-0011

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