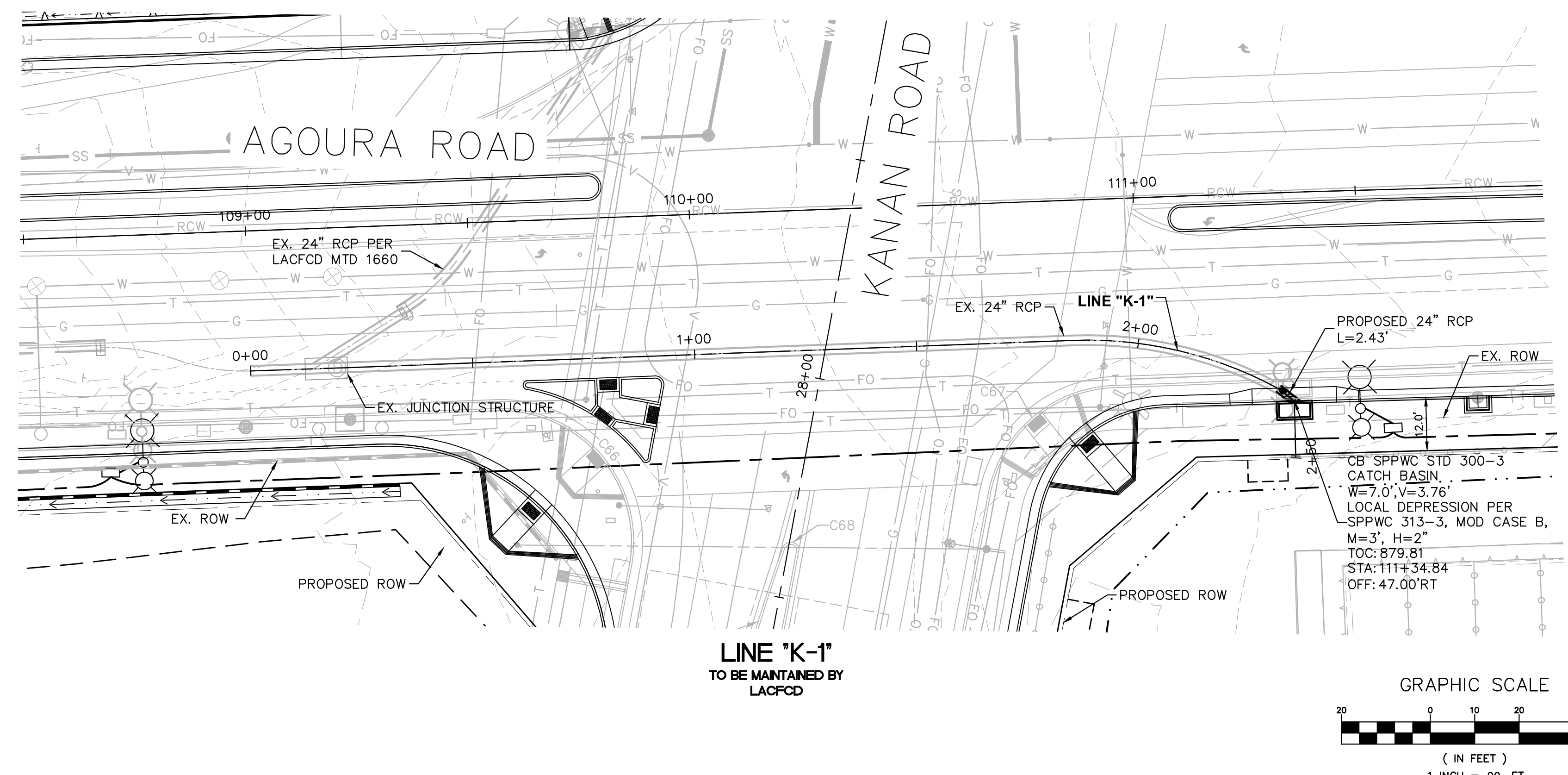
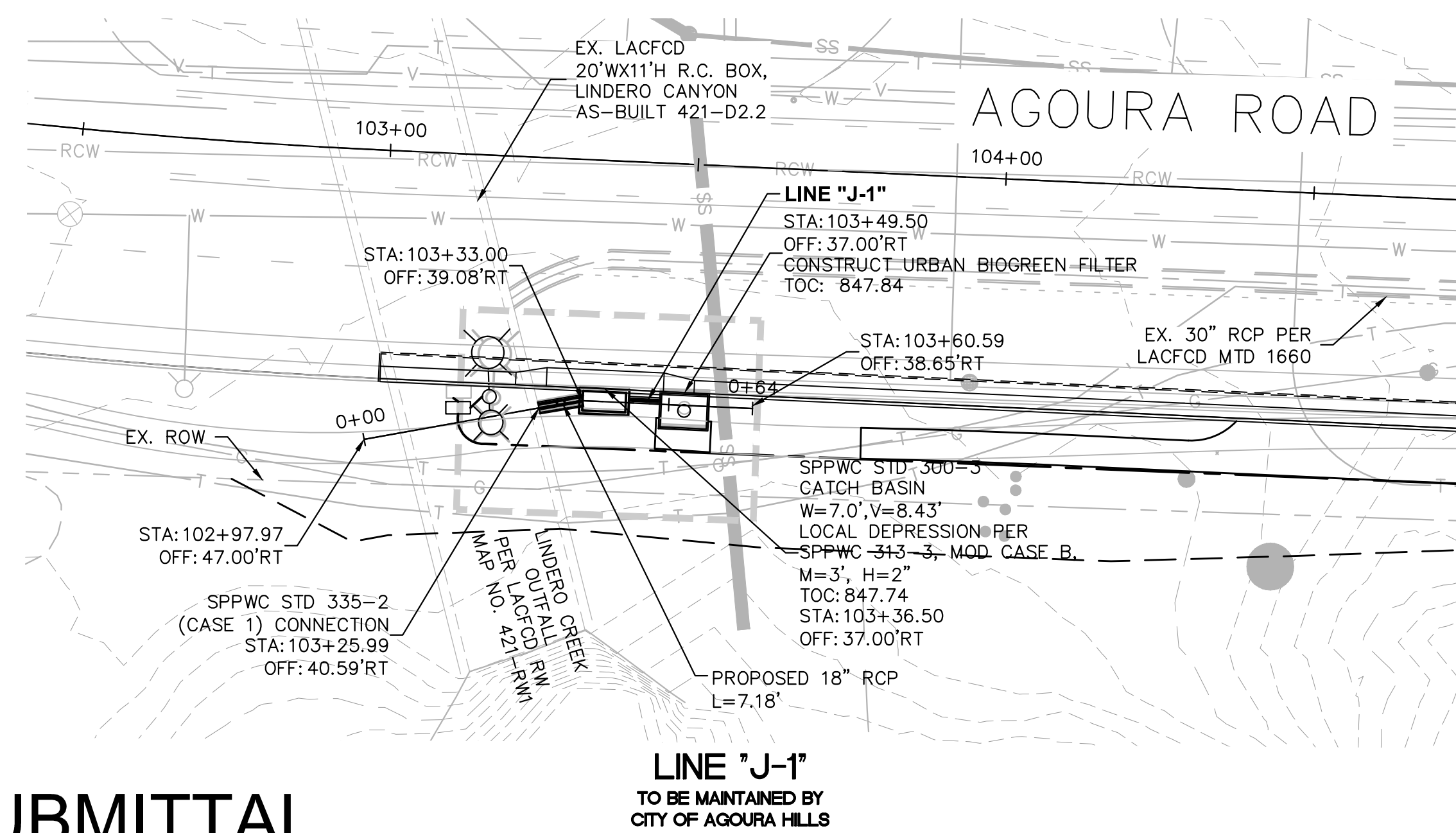


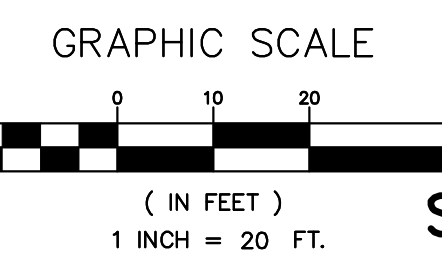
- NOTES**
1. ALL CATCH BASIN STATION AND OFFSET LOCATIONS ARE BASED ON THE CENTER OF THE CB AT THE FACE OF CURB.
 2. ALL STATION AND OFFSETS SHOWN IN PLAN ARE BASED ON AGOURA ROAD ALIGNMENT



95% SUBMITTAL

LINE "J-1"
TO BE MAINTAINED BY
CITY OF AGOURA HILLS

LINE "K-1"
TO BE MAINTAINED BY
LACFCD



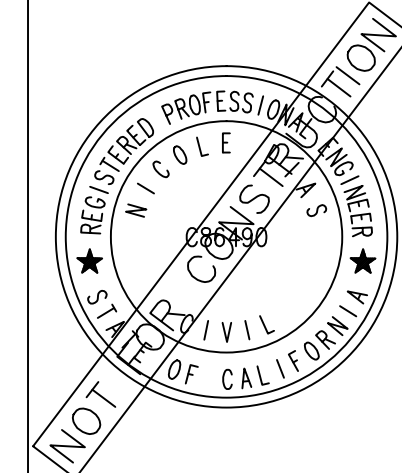
REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

PREPARED BY:

Kimley»Horn

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660 South Figueroa Street, Suite 2050, Los Angeles, CA 90017
Tel (213) 261-4040

NICOLE DIAS R.C.E. C86490 DATE



REVIEWED BY:

CHARMAINE YAMBAO DATE
ASSOCIATE CIVIL ENGINEER

APPROVED BY:

RAMIRO ADEVA DATE
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER



KAMAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS

STORM DRAIN PLANS

DESIGNED BY: ND
DRAWN BY: CG
CHECKED BY: AC

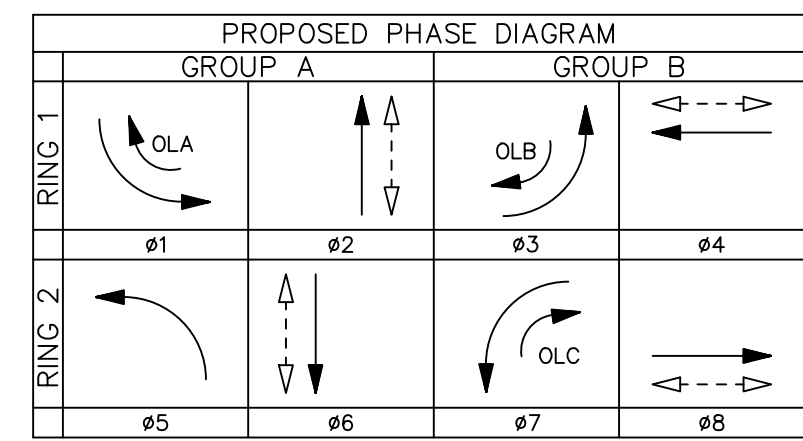
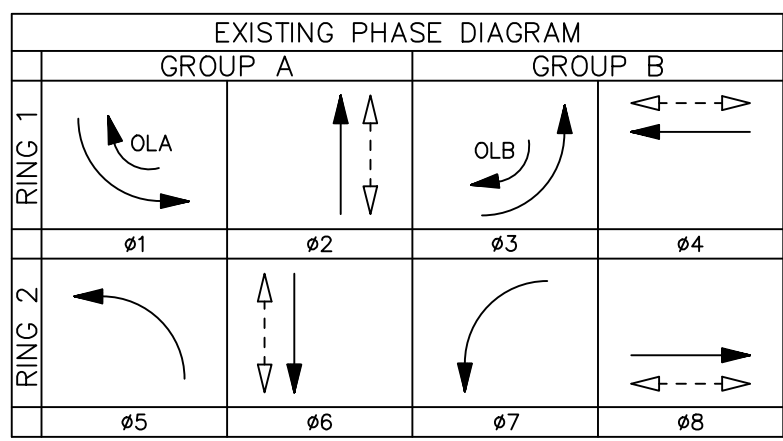
KHA JOB NUMBER: 099083026

SHEET 22 OF 42

K:\D:\RHW\099083026.dwg - Kanan Agoura Intersection Working\03 CAD\03 Stormwater & Drainage Detail - 099083026.dwg 10-26-17-12:13 PM

GENERAL NOTES:

- TRAFFIC SIGNAL AND HIGHWAY SAFETY LIGHTING SYSTEMS SHALL CONFORM TO 2010 CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS, AS SHOWN HEREON AND IN THE SPECIAL PROVISIONS.
- ALL MATERIAL AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- ALL SIGNAL EQUIPMENT SHALL BE RE-WIRED IN ACCORDANCE WITH THE NEW PROPOSED SIGNAL PHASE DIAGRAM.
- INDICATES BICYCLE DETECTION ZONE.
- CONDUIT SHALL BE 3" GALVANIZED RIGID UNLESS OTHERWISE SPECIFIED.
- PULL BOXES SHALL BE SIZE No. 6E UNLESS OTHERWISE SPECIFIED.
- ALL WIRING SHALL BE MARKED (TAGGED) WITHIN THE CONTROLLER CABINET FOR PHASE IDENTIFICATION.
- POLE LOCATIONS SHOWN HEREON ARE NEW.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 811, 48 HOURS PRIOR TO EXCAVATION. NO EXCAVATION SHALL BEGIN PRIOR TO THE MARKING OF UTILITY LOCATIONS.
- UTILITIES SHOWN ON THESE PLANS ARE CORRECT AND ACCURATE TO THE EXTENT OF AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF THE UNDERGROUND FACILITIES PRIOR TO DOING WORK THAT MAY DAMAGE OR INTERFERE WITH THEIR SERVICE.
- FOR SIGNING AND STRIPING SEE SIGNING AND STRIPING SHEETS.
- THIS PLAN IS ACCURATE FOR TRAFFIC SIGNAL WORK ONLY.
- ALL VEHICLE HEADS SHALL HAVE 12" LENSES WITH LOUVER SLOTTED BACKPLATES AND TYPE 1 "LED" INDICATIONS. USE DIALIGHT MODEL 433 SERIES, OR APPROVED EQUAL.
- VIDEO DETECTION SYSTEM AND CAMERA SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. MANUFACTURER REPRESENTATIVE SHALL BE PRESENT DURING THE INSTALLATION OF THE VIDEO DETECTION SYSTEM AND CAMERA. SEE SPECIAL PROVISIONS.
- DETECTION ZONES SHALL BE CENTERED IN THE LANE AND ADJACENT TO CROSSWALK UNLESS OTHERWISE NOTED.
- INDICATES PROPOSED VIDEO DETECTION ZONE.
- INDICATES VIDEO DETECTION CAMERA.
- VEHICLE HEAD MOUNTINGS, PEDESTRIAN HEAD MOUNTINGS, PULL BOXES AND CONTROLLER ASSEMBLY SHALL CONFORM TO THE LOS ANGELES COUNTY STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION.
- THE HEIGHT OF ALL PEDESTRIAN PUSH BUTTONS SHALL BE 3'-4" FROM THE GROUND. ALL PED PUSH BUTTONS SHALL BE ACCOMPANIED WITH R10-3E SIGN PLATES AND SHALL BE POLARA EZ COMMUNICATOR ACCESSIBLE PEDESTRIAN SIGNAL (APS) OR CITY APPROVED EQUAL.
- PEDESTRIAN SIGNAL HEAD SHALL BE LED COUNTDOWN TYPE.
- LOCATE ALL SUBSTRUCTURES PRIOR TO CONSTRUCTION. HAND DIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTIONS. COORDINATE POLE INSTALLATIONS WITH OVERHEAD UTILITY OR SUBSTRUCTURE OWNERS.
- CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS SHOWN WHEN IT IS OBVIOUS THAT UNKNOWN CONDITIONS AND/OR OBJECTS EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE PREPARATION OF THESE PLANS. SUCH CONDITIONS AND/OR OBJECTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CITY. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATION.
- ALL EXISTING IMPROVEMENTS, MATERIALS AND PLANT MATERIAL TO REMAIN WITHIN THE CONSTRUCTION AREA SHALL BE PROPERLY AND ADEQUATELY PROTECTED FROM DAMAGE DURING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE TO ORIGINAL CONDITION OR REPLACE IN KIND OF THESE EXISTING ITEMS THAT ARE DAMAGED OR DISTURBED IN ANY WAY, AT NO COST TO THE CITY.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BID. NO CHANGE ON CONTRACT PRICE WILL BE ALLOWED FOR ACTUAL OR CLAIMED DISCREPANCY BETWEEN EXISTING SITE CONDITIONS AND THOSE SHOWN ON PLANS.
- ANY MODIFICATIONS OF OR CHANGE IN APPROVED PLANS MUST BE APPROVED BY THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL OBTAIN TIMING SHEET FOR TRAFFIC SIGNAL MODIFICATIONS, PRIOR TO BEGINNING OF CONSTRUCTION. CONTACT CHARMINE YAMBAO AT (818) 597-7360.
- CONTRACTOR SHALL HAVE A CERTIFIED TRAFFIC SIGNAL TECHNICIAN HARDWIRE THE TRAFFIC SIGNAL CONTROLLER'S CONFLICT MONITOR TO MONITOR FOR AN ENTRAPMENT SITUATION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE TIMELY CONSTRUCTION PHASE PERIODS TO MINIMIZE THE INTERSECTION TO OPERATE ON RECALL MODE.
- CONTRACTOR SHALL FURNISH AND INSTALL SPECIAL "NEW TRAFFIC PATTERN" SIGNS WITH ORANGE FLAGS ON THE DAY OF TURN-ON AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL REMOVE SIGNS 30 DAYS AFTER INSTALLATION. CONTACT CITY OF AGOURA HILLS FOR SIGN DETAIL.

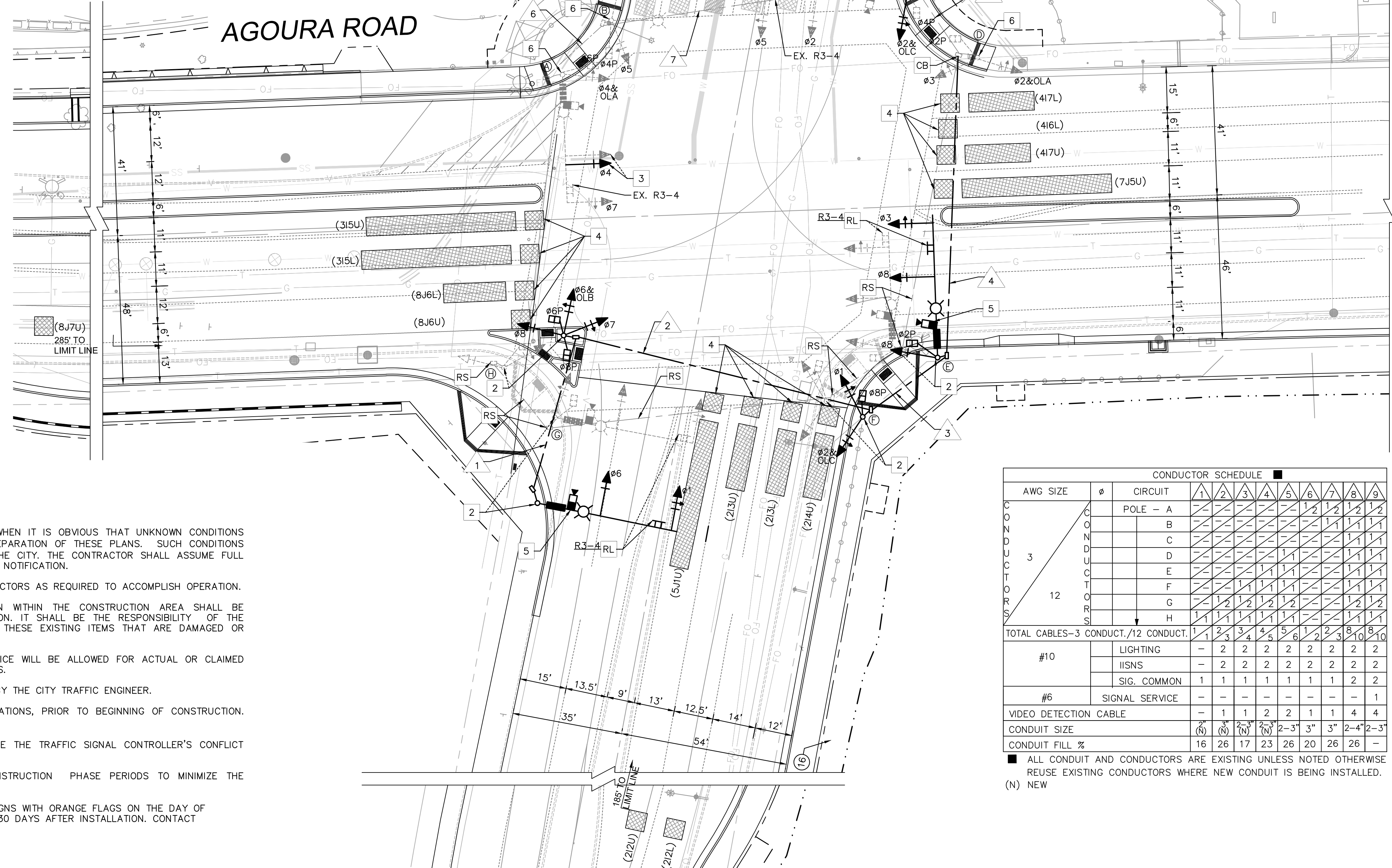


#2 AND #6 ON VEHICLE RECALL
#7 ON LAG

#2 AND #6 ON VEHICLE RECALL

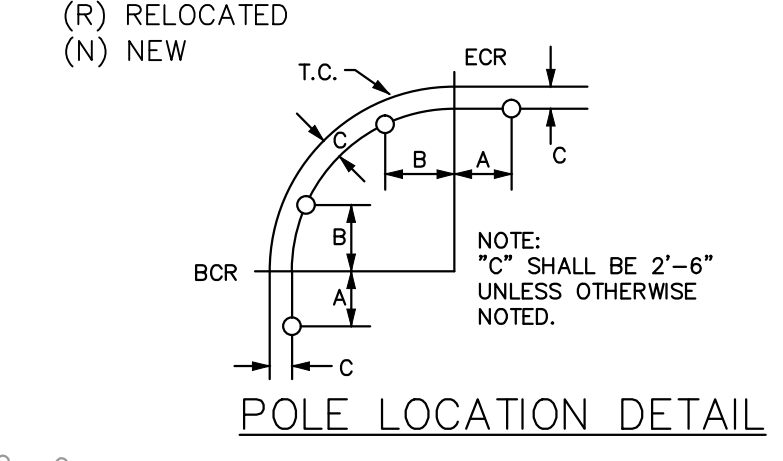
LEGEND

- EXISTING RIGHT OF WAY
- - - PROPOSED RIGHT OF WAY
- EXISTING STRIPING
- - - PROPOSED STRIPING
- EXISTING CONDUIT
- - - PROPOSED CONDUIT



No.	POLE TYPE	SIGNAL M.A. LENGTH	SIGNAL MOUNTING				LUMINAIRE M.A. LENGTH	HPS WTS	PED. PUSH BUTTON		STREET NAME SIGN		POLE LOCATION		
			M.A.S.	VEH HEAD	PED	SP			No.	PHASE	TYPE	LEGEND	A	B	C
(A)	26-4-100	45'	2-M.A.S.	SV-1-T	SP-1-T	12'	250	E	6	I.I.	KANAN RD	-	10.5'	2.0'	
(B)	15TS	-	-	SV-2-TA	SP-1-T	12'	200	S	4	-	-	-	11.0'	2.0'	
(C)	26-4-100	45'	2-M.A.S.	SV-1-T(N)	SP-1-T	12'	250	S	4	I.I.	AGOURA RD	-	17.0'	2.0'	
(D)	1-A	-	-	TV-2-T	SP-1-T	-	-	W	2	-	-	-	9.0'	3.0'	
(E)	26-4-100(R)	45'(N)	2-M.A.S.(R)	SV-1-T(R)	SP-1-T(R)	12'(R)	250	W	2(R)	I.I.	KANAN RD (R)	-	4.0'	4.5'	
(F)	1-A(R)	-	-	TV-1-T(R)	SP-1-T(R)	-	250	N	8(R)	-	-	-	3.5'	3.0'	
(G)	26-4-100(R)	45'(R)	2-M.A.S.(R)	SV-1-T(R)	SP-1-T(R)	12'(R)	250	-	-	I.I.	AGOURA RD(R)	-	13.0'	2.0'	
(H)	1-A(R)	-	-	TV-3-T(R)	SP-2-T(R)	-	-	N	8(R)	-	-	-	11.0'	3.5'	

I.I. - INDICATES INTERNALLY ILLUMINATED STREET NAME SIGN.
ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED.

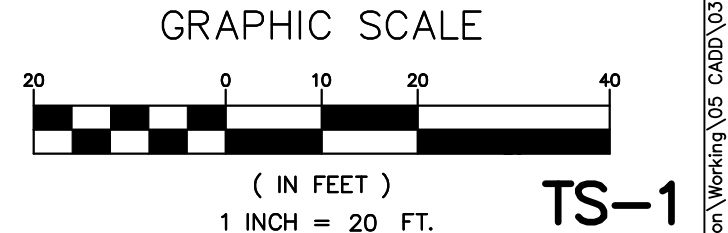


CONSTRUCTION NOTES

- REUSE EXISTING 332 CABINET COMPLETE WITH 2-CHANNEL ILD SENSOR UNITS, PED ISOLATION MODULES, AND SWITCH PACKS. REUSE EXISTING TYPE 170 ATC/HCI1 CONTROLLER, LACO-4E PROGRAM, GPS UNIVERSAL TIME BASE UNIT, (4) RACK MOUNTED VIDEO IMAGE PROCESSORS, (2) EXTENSION MODULES, AND ALL APPURTENANCES NECESSARY TO PROVIDE THE OPERATION SHOWN ON THE PLAN.
- RELOCATE EXISTING POLE AND SIGNAL EQUIPMENT AS SHOWN TO NEW FOUNDATION. REMOVE EXISTING FOUNDATION.
- RELOCATE EXISTING TRAFFIC SIGNAL HEAD AS SHOWN.
- PROGRAM BICYCLE VIDEO DETECTION ZONE PER MANUFACTURER SPECIFICATIONS.
- RESET ITERIS VANTAGE EDGE 2 VIDEO DETECTION CAMERA ON LUMINAIRE ARM PER MANUFACTURER'S SPECIFICATIONS.
- PROTECT IN PLACE.

CONDUCTOR SCHEDULE		CIRCUIT								
CONDUCTOR AWG SIZE	CIRCUIT	1	2	3	4	5	6	7	8	9
		3	POLE - A	-	-	-	-	1	2	2
B	-		-	-	-	-	-	1	1	1
C	-		-	-	-	-	-	-	1	1
D	-		-	-	-	-	-	-	-	1
E	-		-	-	-	1	1	1	-	-
F	-		-	-	-	-	-	-	-	-
G	-		-	-	-	-	-	-	-	-
H	1		1	1	1	1	1	1	1	1
TOTAL CABLES-3 CONDUCT./12 CONDUCT.		1	2	3	4	5	6	1	2	3
#10	LIGHTING	-	2	2	2	2	2	2	2	2
	IISNS	-	2	2	2	2	2	2	2	2
	SIG. COMMON	1	1	1	1	1	1	1	1	2
#6	SIGNAL SERVICE	-	-	-	-	-	-	-	-	1
	VIDEO DETECTION CABLE	-	1	1	2	2	1	1	4	4
CONDUIT SIZE		(N)	(N)	(N)	(N)	2-3"	3"	3"	2-4"	2-3"
CONDUIT FILL %		16	26	17	23	26	20	26	26	-

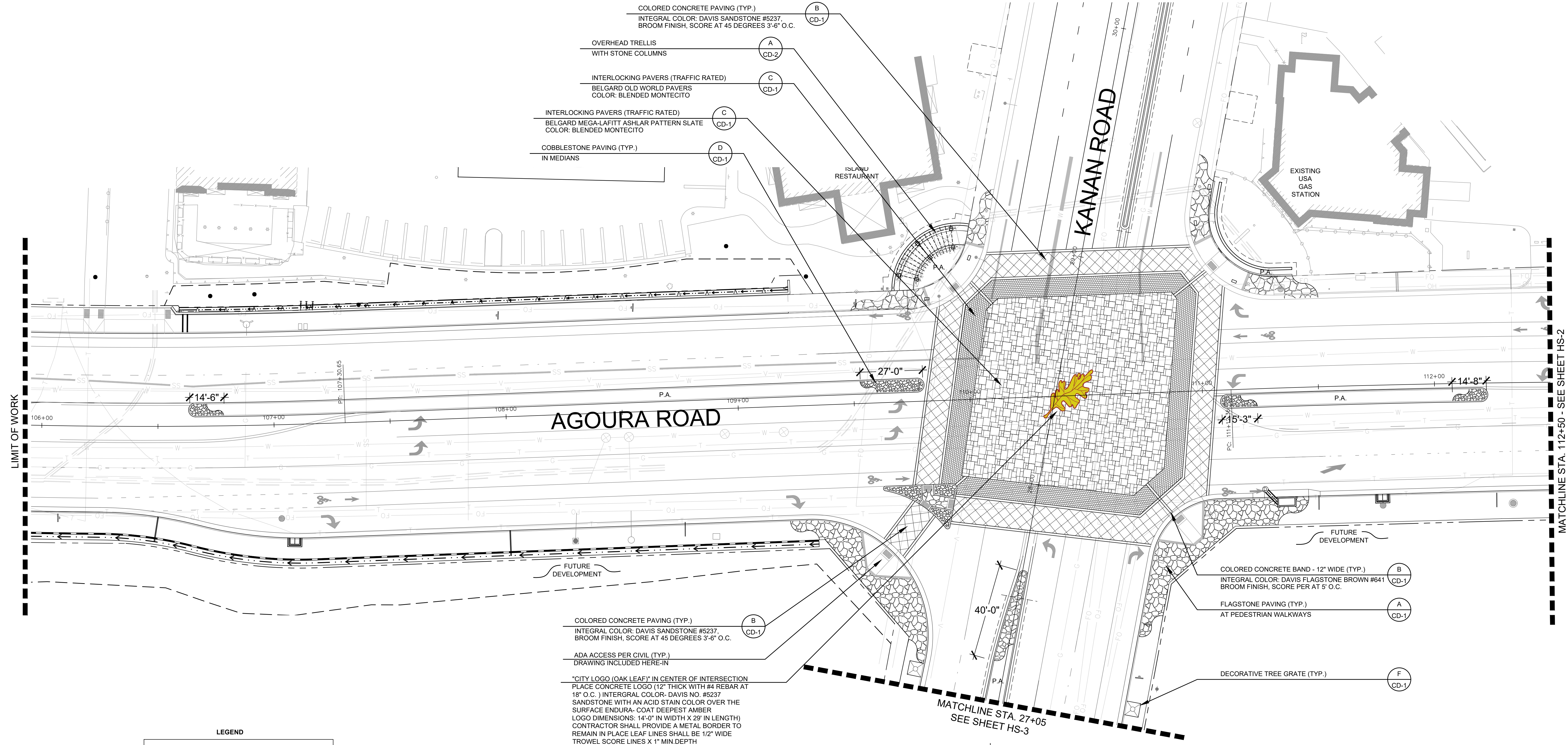
ALL CONDUIT AND CONDUCTORS ARE EXISTING UNLESS NOTED OTHERWISE. REUSE EXISTING CONDUCTORS WHERE NEW CONDUIT IS BEING INSTALLED. (N) NEW



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REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE	DESIGNED BY:	DRAWN BY:	CHECKED BY:	KHA JOB NUMBER	099083026
					CC	RP	SC		
								SHEET	24 OF 42

I:\Projects\099083026 - Kanan Agoura Intersection\Working\05_CADD\03_Sheet\Traffic TS - 099083026.dwg 11-30-17 3:40 PM



- COLORED CONCRETE PAVING (TYP.)
INTEGRAL COLOR: DAVIS SANDSTONE #5237,
BROOM FINISH, SCORE AT 45 DEGREES 3'-6" O.C. (B CD-1)
- OVERHEAD TRELLIS
WITH STONE COLUMNS (A CD-2)
- INTERLOCKING PAVERS (TRAFFIC RATED)
BELGARD OLD WORLD PAVERS
COLOR: BLENDED MONTECITO (C CD-1)
- INTERLOCKING PAVERS (TRAFFIC RATED)
BELGARD MEGA-LAFITT ASHLAR PATTERN SLATE
COLOR: BLENDED MONTECITO (C CD-1)
- COBBLESTONE PAVING (TYP.)
IN MEDIANS (D CD-1)

- COLORED CONCRETE PAVING (TYP.)
INTEGRAL COLOR: DAVIS SANDSTONE #5237,
BROOM FINISH, SCORE AT 45 DEGREES 3'-6" O.C. (B CD-1)
- ADA ACCESS PER CIVIL (TYP.)
DRAWING INCLUDED HERE-IN
- "CITY LOGO (OAK LEAF)" IN CENTER OF INTERSECTION
PLACE CONCRETE LOGO (12" THICK WITH #4 REBAR AT
18" O.C.) INTEGRAL COLOR: DAVIS NO. #5237
SANDSTONE WITH AN ACID STAIN COLOR OVER THE
SURFACE ENDURA-COAT DEEPEST AMBER
LOGO DIMENSIONS: 14'-0" IN WIDTH X 29' IN LENGTH
CONTRACTOR SHALL PROVIDE A METAL BORDER TO
REMAIN IN PLACE LEAF LINES SHALL BE 1/2" WIDE
TROWEL SCORE LINES X 1" MIN DEPTH

- COLORED CONCRETE BAND - 12" WIDE (TYP.)
INTEGRAL COLOR: DAVIS FLAGSTONE BROWN #641
BROOM FINISH, SCORE PER AT 5' O.C. (B CD-1)
- FLAGSTONE PAVING (TYP.)
AT PEDESTRIAN WALKWAYS (A CD-1)
- DECORATIVE TREE GRATE (TYP.) (F CD-1)

LEGEND

---	NEW PUBLIC EASEMENT LINE
---	PLANTING AREA
---	TYPICAL

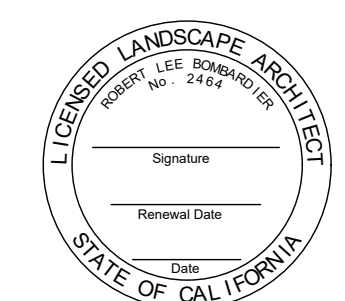
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1		35%PS&E		08/04/15
2		65%PS&E		04/21/16
3		95%PS&E		05/03/17
4		95%PS&E		10/25/17
REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

APPROVED BY:

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ROBERT BOMBARDIER RLA 2464

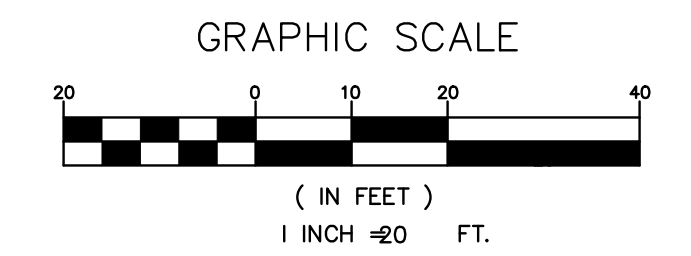


REVIEWED BY:

CHARMAINE YAMBAO 8/4/15
ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA 8/4/15
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE



PREPARED BY:

L. Newman Design Group, Inc.

- Landscape Architecture
- Planning
- Horticulture
- Biological Restoration

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Phone: (818) 991-5056 ■ Fax: (818) 991-3478
E-mail: indg@indg.net ■ Website: www.indg.net

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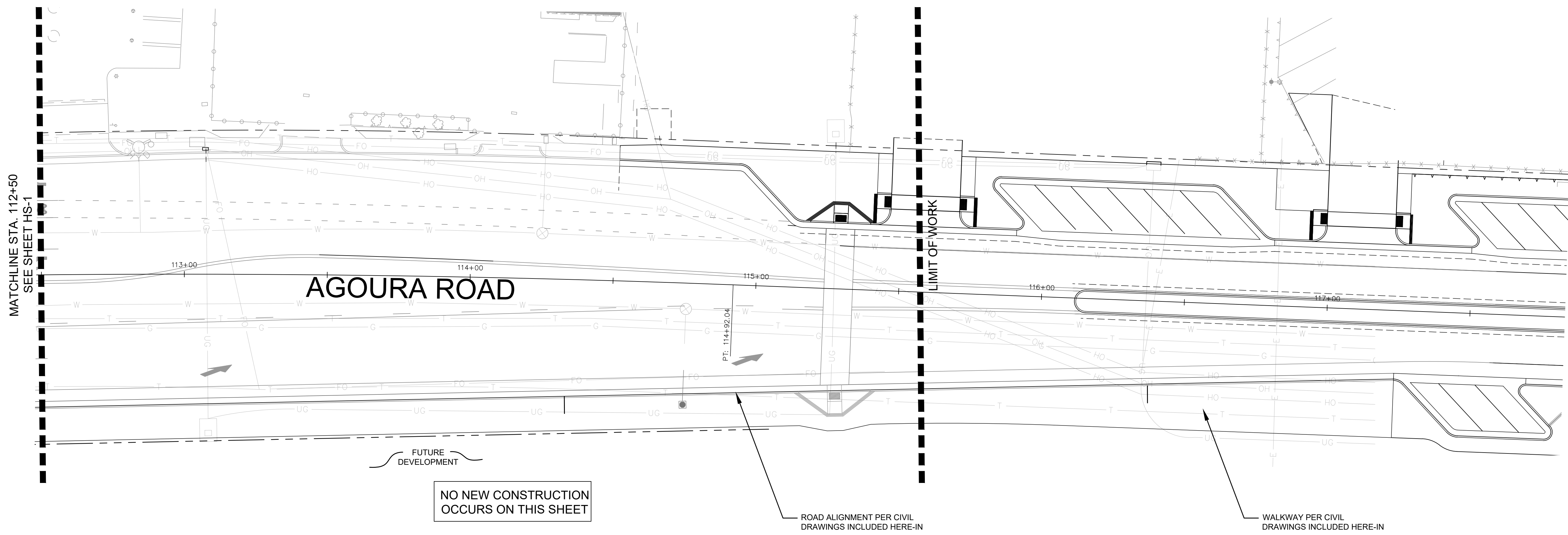
KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS

HARDSCAPE PLAN HS-1

DESIGNED BY: BB
DRAWN BY: RK
CHECKED BY: XX

KHA JOB NUMBER: 099083026

SHEET 25 OF 42



MATCHLINE STA. 112+50
SEE SHEET HS-1

LIMIT OF WORK

AGOURA ROAD

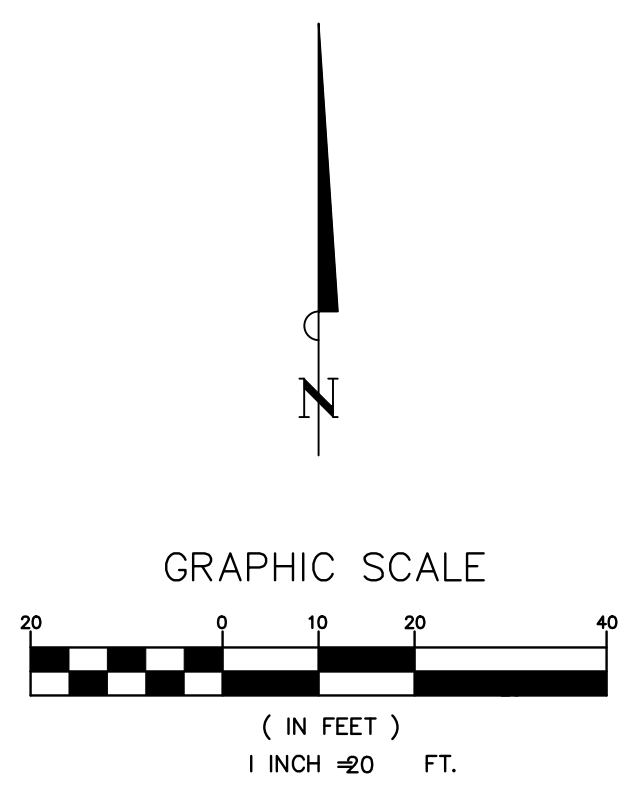
NO NEW CONSTRUCTION
OCCURS ON THIS SHEET

ROAD ALIGNMENT PER CIVIL
DRAWINGS INCLUDED HERE-IN

WALKWAY PER CIVIL
DRAWINGS INCLUDED HERE-IN

LEGEND

---	NEW PUBLIC EASEMENT LINE
---	PLANTING AREA TYPICAL
---	P.A. TYP.



NOTE:
REFER TO GRADING AND
STREET IMPROVEMENTS
SHEETS PER CIVIL DRAWING
INCLUDED HERE-IN.

NOTE:
UTILITIES RELOCATED PER
CIVIL DRAWING INCLUDED
HERE-IN.

PREPARED BY:

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- Planning
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- Biological Restoration

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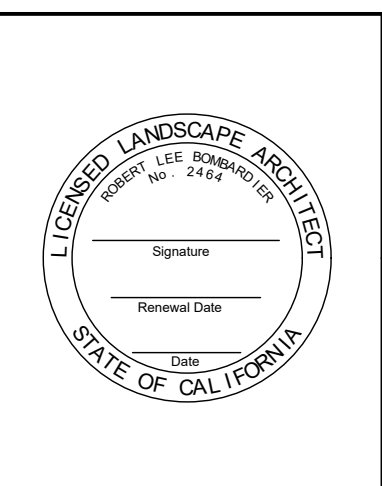
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2		65%PS&E		04/21/16
3		95%PS&E		05/03/17
4		95%PS&E		10/25/17

APPROVED BY:

Kimley»Horn

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ROBERT BOMBARDIER RLA 2464 DATE



REVIEWED BY:

CHARMAINE YAMBABO 8/4/15
 ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA 8/4/15
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE

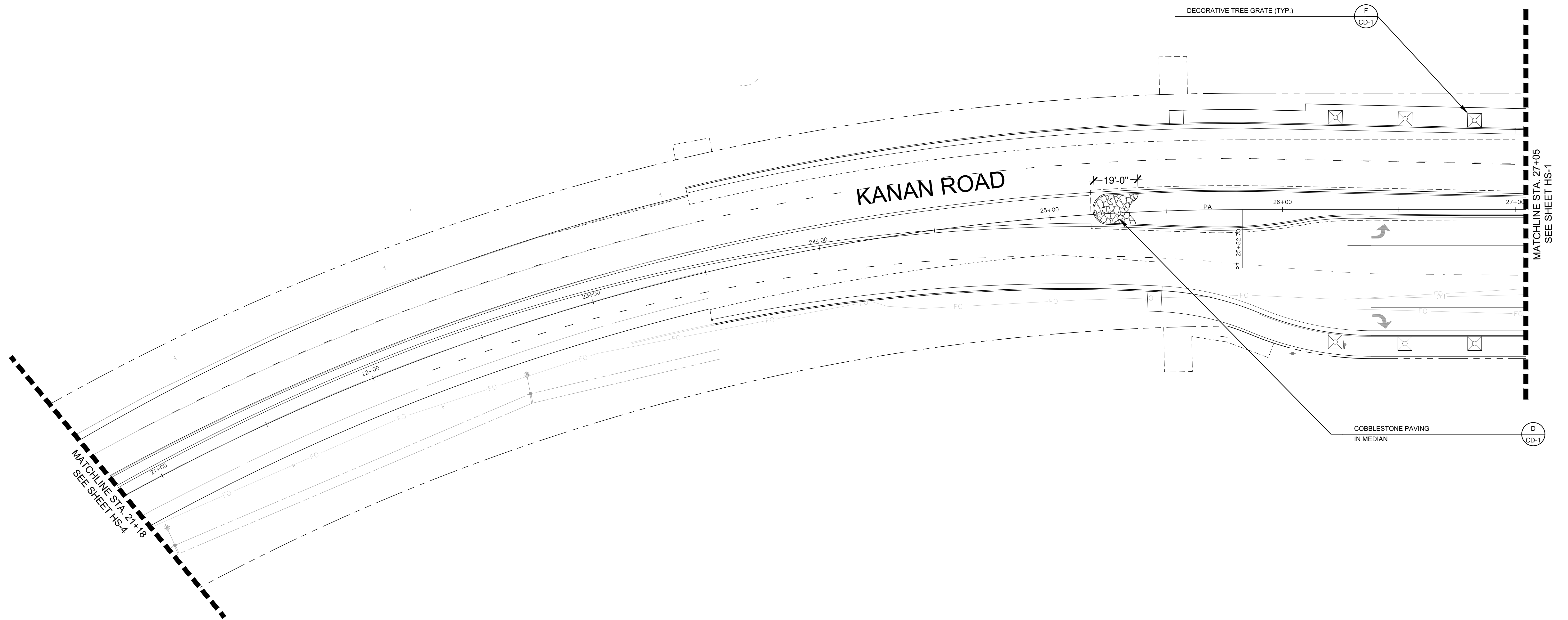


KANAN ROAD/AGOURA ROAD
 ULTIMATE INTERSECTION IMPROVEMENTS

HARDSCAPE PLAN HS-2

DESIGNED BY: BB
 DRAWN BY: RK
 CHECKED BY: XX
 KHA JOB NUMBER: 099083026

SHEET 26 OF 42

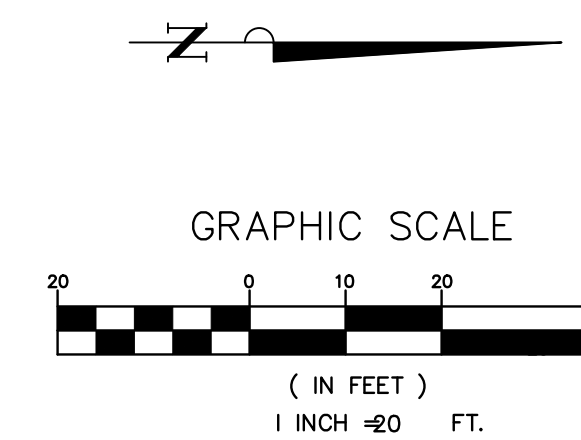


LEGEND

---	PUBLIC EASEMENT LINE
---	PLANTING AREA TYPICAL

NOTE:
REFER TO GRADING AND STREET IMPROVEMENTS SHEETS PER CIVIL DRAWING INCLUDED HERE-IN.

NOTE:
UTILITIES RELOCATED PER CIVIL DRAWING INCLUDED HERE-IN.



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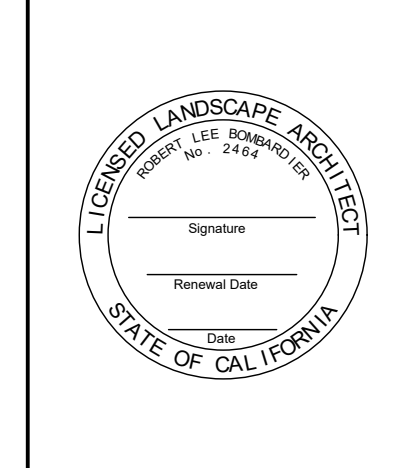
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APPROVED BY:

RAMIRO ADEVA 8/4/15
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE



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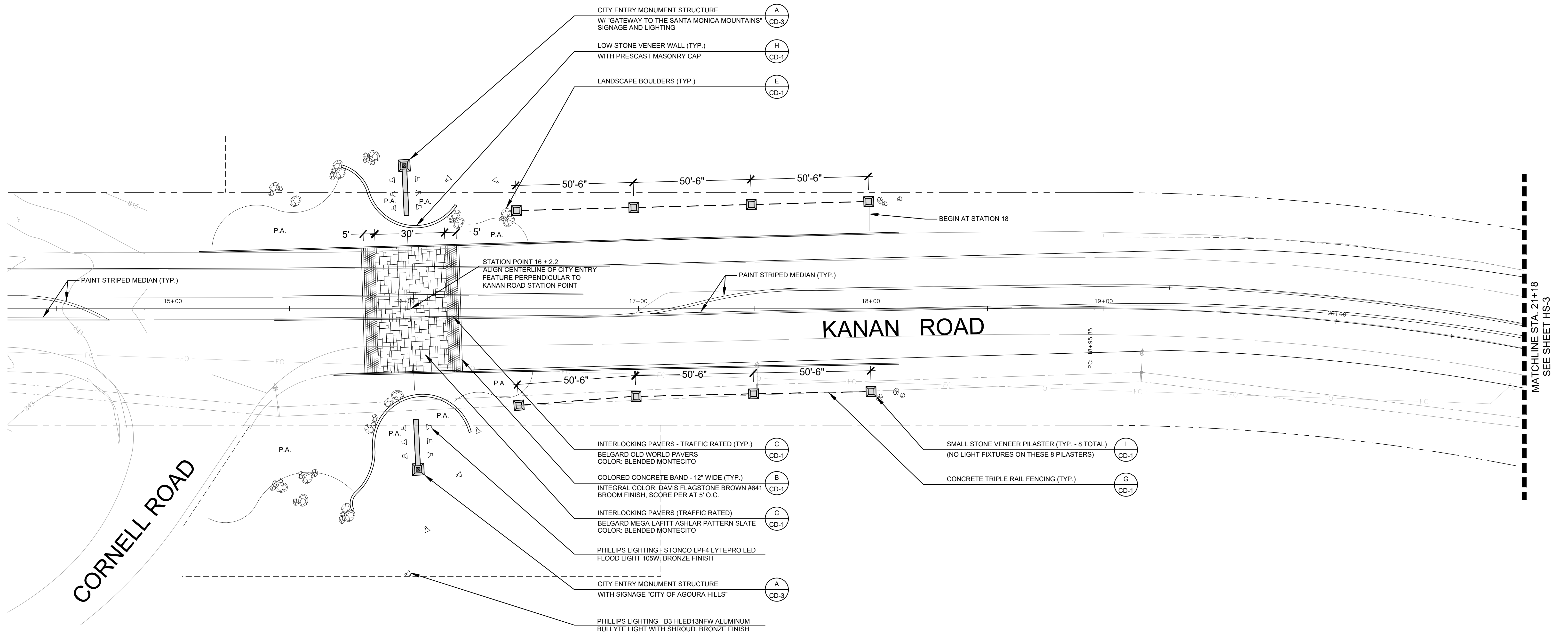
KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS

HARDSCAPE PLAN HS-3

DESIGNED BY: BB
DRAWN BY: RK
CHECKED BY: XX

KHA JOB NUMBER: 099083026

SHEET 27 OF 42

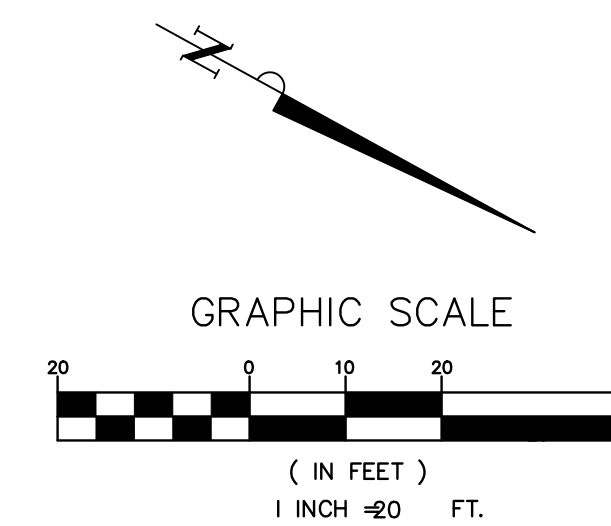


LEGEND

---	EXISTING PUBLIC EASEMENT LINE
P.A.	PLANTING AREA
TYP.	TYPICAL

NOTE:
REFER TO GRADING AND STREET IMPROVEMENTS SHEETS PER CIVIL DRAWING INCLUDED HERE-IN.

NOTE:
UTILITIES RELOCATED PER CIVIL DRAWING INCLUDED HERE-IN.



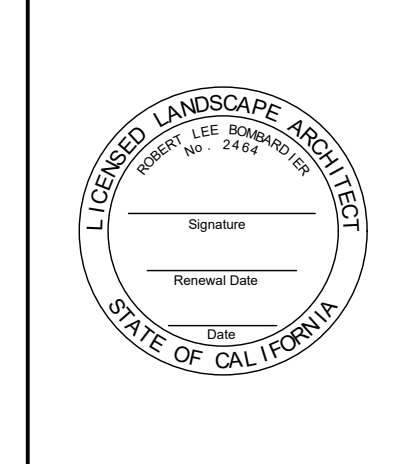
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REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

APPROVED BY:

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660 South Figueroa Street, Suite 2050, Los Angeles, CA 90017
Tel (213) 261-4040

ROBERT BOMBARDIER RLA 2464 xx/xx/xx DATE



REVIEWED BY:

CHARMAINE YAMBAO 8/4/15 DATE
ASSOCIATE CIVIL ENGINEER

APPROVED BY:

RAMIRO ADEVA 8/4/15 DATE
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER



PREPARED BY:

L. Newman Design Group, Inc.
 ■ Landscape Architecture
 ■ Planning
 ■ Horticulture
 ■ Biological Restoration

31300 Via Colinas ■ Suite 104 ■ Westlake Village, CA 91362-3924
 Phone: (818) 991-5056 ■ Fax: (818) 991-3478
 E-mail: indg@indg.net ■ Website: www.indg.net

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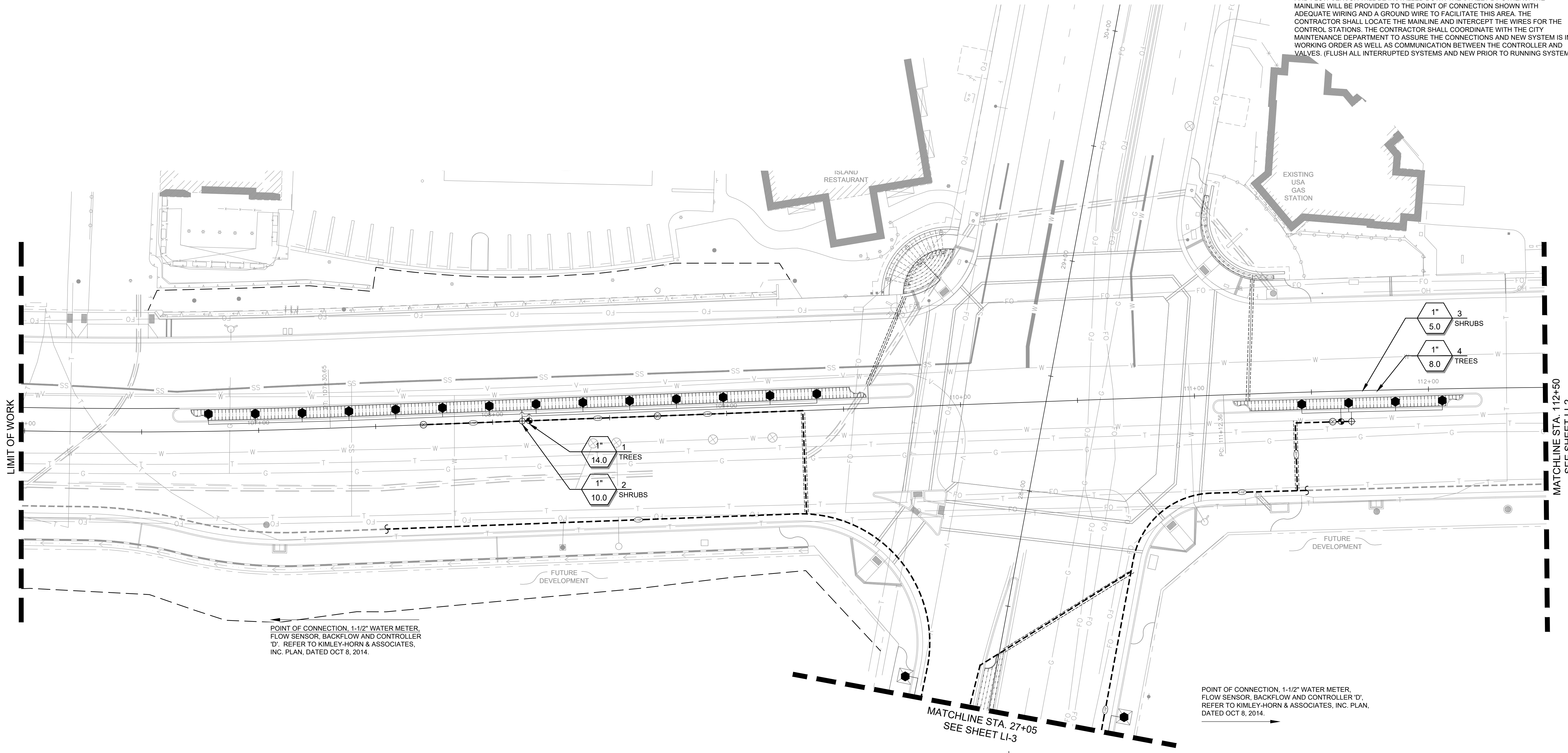
KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS

HARDSCAPE PLAN HS-4

DESIGNED BY: BB DRAWN BY: RK CHECKED BY: XX KHA JOB NUMBER: 099083026

SHEET 28 OF 42

NOTE:
 EXISTING IRRIGATION SYSTEM WILL BE IN PLACE AT THE TIME OF THOSE IMPROVEMENTS. THE WATER METER, ET CONTROLLER, MASTER CONTROL VALVE AND FLOW SENSOR WILL BE INSTALLED DOWN THE STREET BY OTHERS. THE MAINLINE WILL BE PROVIDED TO THE POINT OF CONNECTION SHOWN WITH ADEQUATE WIRING AND A GROUND WIRE TO FACILITATE THIS AREA. THE CONTRACTOR SHALL LOCATE THE MAINLINE AND INTERCEPT THE WIRES FOR THE CONTROL STATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE CITY MAINTENANCE DEPARTMENT TO ASSURE THE CONNECTIONS AND NEW SYSTEM IS IN WORKING ORDER AS WELL AS COMMUNICATION BETWEEN THE CONTROLLER AND VALVES. (FLUSH ALL INTERRUPTED SYSTEMS AND NEW PRIOR TO RUNNING SYSTEM).



POINT OF CONNECTION, 1-1/2" WATER METER, FLOW SENSOR, BACKFLOW AND CONTROLLER 'D'. REFER TO KIMLEY-HORN & ASSOCIATES, INC. PLAN, DATED OCT 8, 2014.

POINT OF CONNECTION, 1-1/2" WATER METER, FLOW SENSOR, BACKFLOW AND CONTROLLER 'D'. REFER TO KIMLEY-HORN & ASSOCIATES, INC. PLAN, DATED OCT 8, 2014.

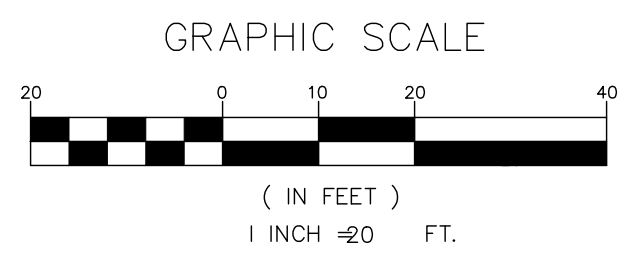
MATCHLINE STA. 27+05
SEE SHEET LI-3

MATCHLINE STA. 112+50
SEE SHEET LI-2

FOR IRRIGATION LEGEND AND NOTES SEE LI-5

PREPARED BY:
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 ■ Landscape Architecture
 ■ Planning
 ■ Horticulture
 ■ Biological Restoration
 ■ 31300 Via Colinas ■ Suite 104 ■ Westlake Village, CA 91362-3924
 ■ Phone: (818) 991-5056 ■ Fax: (818) 991-3478
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REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

APPROVED BY:
Kimley»Horn
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ROBERT BOMBARDIER RLA 2464 DATE



REVIEWED BY:
 CHARMINE YAMBABO 8/4/15
 ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:
 RAMIRO ADEVA 8/4/15
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE

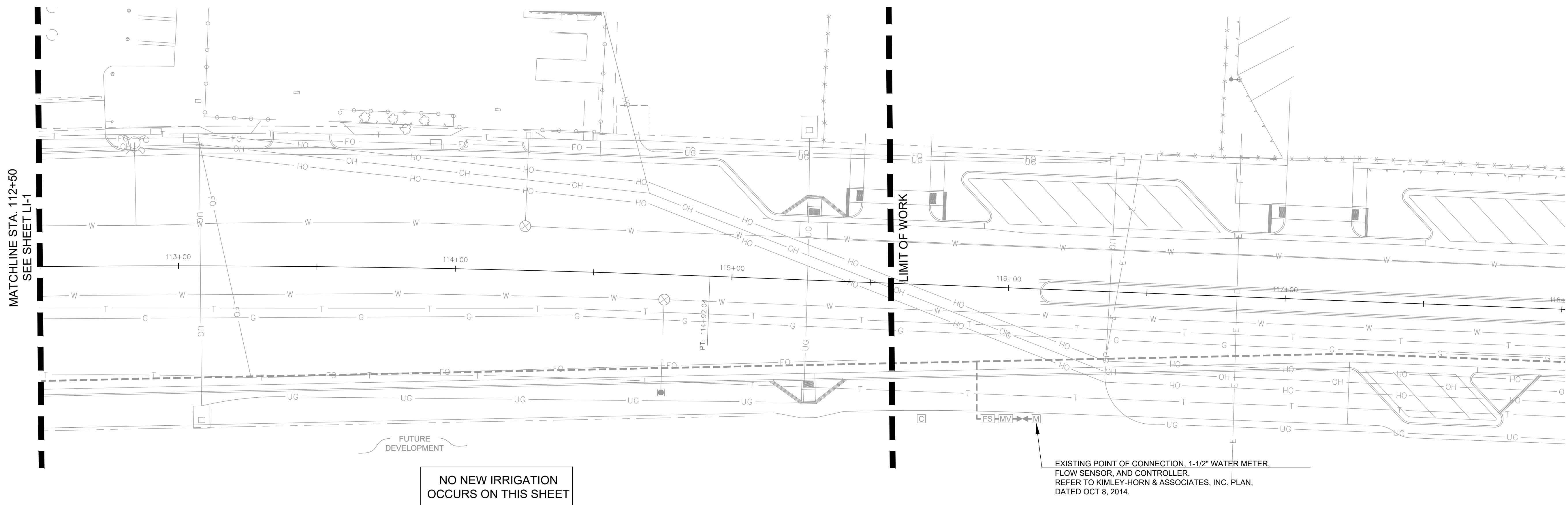


KANAN ROAD/AGOURA ROAD
 ULTIMATE INTERSECTION IMPROVEMENTS

IRRIGATION PLAN LI-1

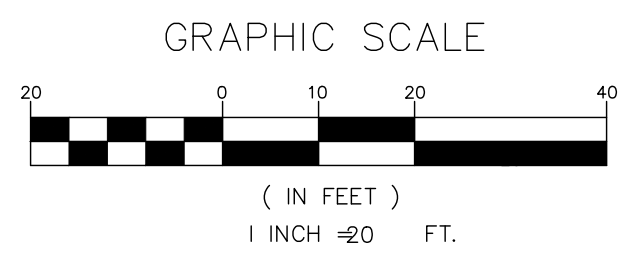
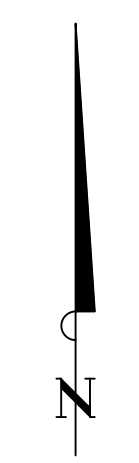
DESIGNED BY: BB DRAWN BY: RK CHECKED BY: XX
 KHA JOB NUMBER: 099083026

SHEET 29 OF 42



NO NEW IRRIGATION
OCCURS ON THIS SHEET

EXISTING POINT OF CONNECTION, 1-1/2" WATER METER,
FLOW SENSOR, AND CONTROLLER.
REFER TO KIMLEY-HORN & ASSOCIATES, INC. PLAN,
DATED OCT 8, 2014.



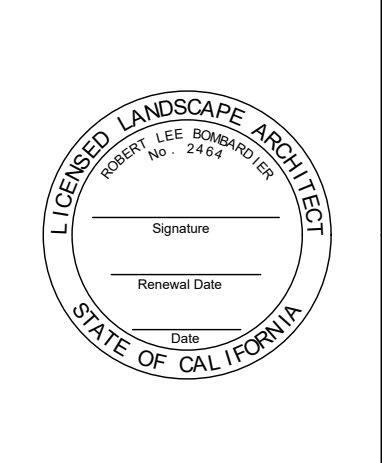
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ROBERT BOMBARDIER RLA 2464 DATE



REVIEWED BY:

CHARMAINE YAMBABO 8/4/15
ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA 8/4/15
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE



PREPARED BY:

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 ■ Landscape Architecture
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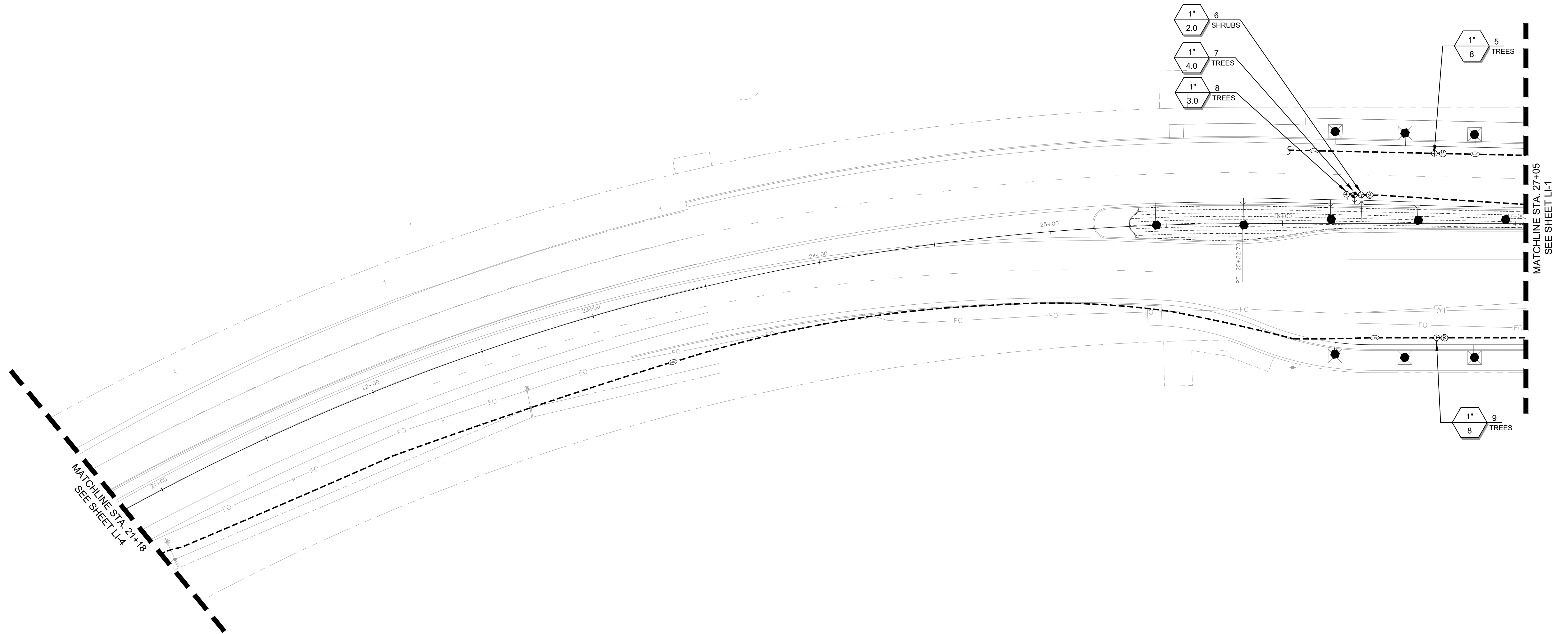
KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS

IRRIGATION PLAN LI-2

DESIGNED BY: BB
DRAWN BY: RK
CHECKED BY: XX

KHA JOB NUMBER: 099083026

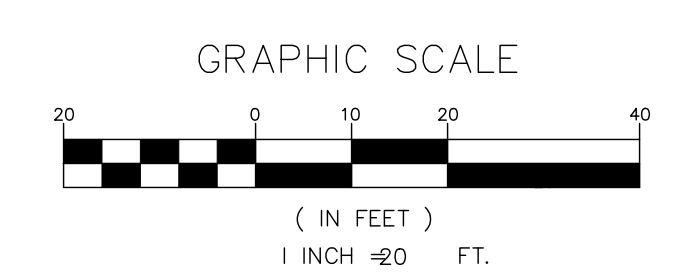
SHEET 30 OF 42



- 1" 6 SHRUBS
- 2.0
- 1" 7 TREES
- 4.0
- 1" 8 TREES
- 3.0
- 1" 5 TREES
- 8
- 1" 9 TREES
- 8

MATCHLINE STA. 21+18
SEE SHEET LI-4

MATCHLINE STA. 27+05
SEE SHEET LI-1



FOR IRRIGATION LEGEND AND NOTES SEE LI-5

PREPARED BY:

L. Newman Design Group, Inc.

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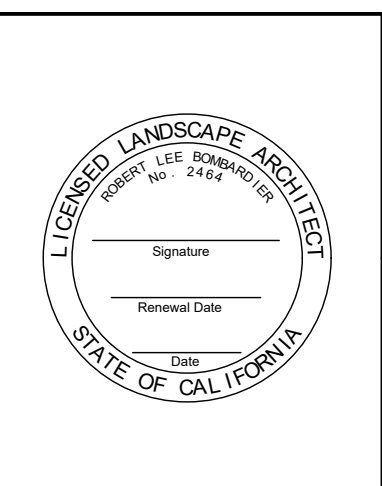
APPROVED BY:

Kimley»Horn

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ROBERT BOMBARDIER RLA 2464

xx/xx/xx DATE



REVIEWED BY:

CHARMAINE YAMBAO 8/4/15
 ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA 8/4/15
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE



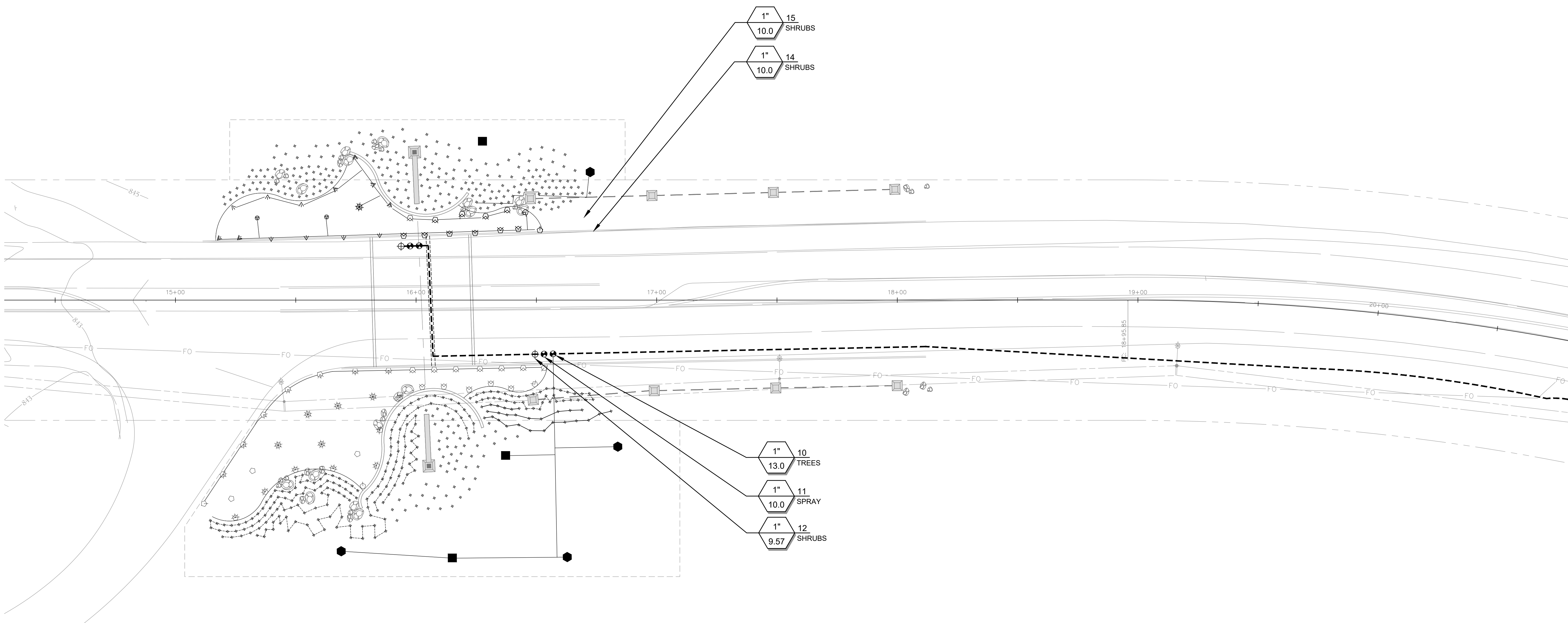
KANAN ROAD/AGOURA ROAD
 ULTIMATE INTERSECTION IMPROVEMENTS

IRRIGATION PLAN LI-3

DESIGNED BY: BB
 DRAWN BY: RK
 CHECKED BY: XX

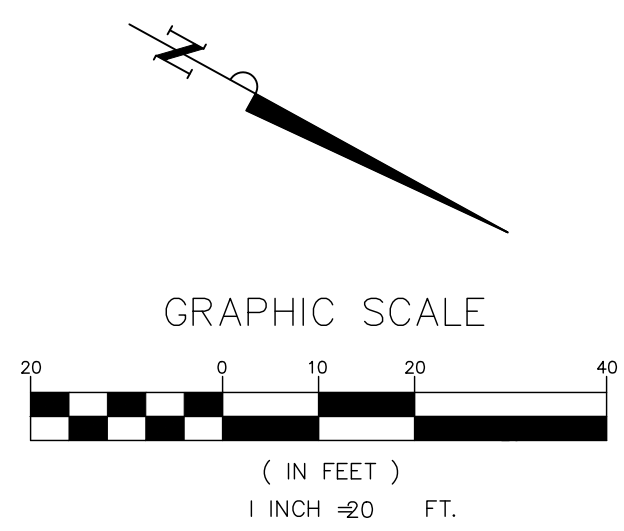
KHA JOB NUMBER: 099083026

SHEET 31 OF 42



MATCHLINE STA. 21+18
SEE SHEET LI-3

IRRIGATION SYSTEM NOTE
 THE IRRIGATION SYSTEM DESIGN FOR THIS AREA WILL BE COMPLETED FOR THIS ENTRY MONUMENT ON BOTH SIDES OF KANAN ROAD AFTER A FINAL CIVIL ENGINEERING SURVEY IS COMPLETED. THE IRRIGATION SYSTEM WILL INCLUDE DRIP IRRIGATION FOR THE SHRUBS AND TREES, OVERHEAD ROTOR SPRAY SYSTEMS FOR THE NATIVE HYDRO-SEED AREAS. THIS SYSTEM WILL BE CONNECTED TO THE CONTROLLER AND RECLAIMED WATER SYSTEM ON AGOURA ROAD.



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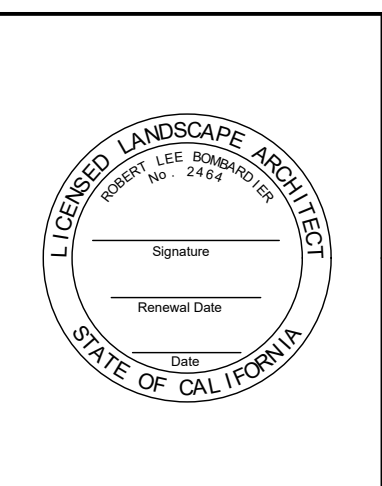
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APPROVED BY:
 RAMIRO ADEVA 8/4/15
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE



KANAN ROAD/AGOURA ROAD
 ULTIMATE INTERSECTION IMPROVEMENTS

IRRIGATION PLAN LI-4

DESIGNED BY: BB
 DRAWN BY: RK
 CHECKED BY: XX
 KHA JOB NUMBER: 099083026

SHEET 32 OF 42

**LAS VIRGENES MUNICIPAL WATER DISTRICT
RECYCLED WATER SERVICE GENERAL NOTES**

(WHERE APPLICABLE)

- A. THESE RECYCLED WATER SERVICE GENERAL NOTES MUST APPEAR ON ALL ORIGINAL AND "AS-BUILT" COPIES OF THE IRRIGATION SYSTEM PLANS.
- B. THE RECYCLED WATER SYSTEM SHALL MEET THE AMERICAN WATER WORKS ASSOCIATION "GUIDELINES TO DISTRIBUTION OF NON-POTABLE WATER".
- C. A SET OF ORIGINAL IRRIGATION SYSTEM DESIGN DRAWINGS MUST BE SUPPLIED TO THE LAS VIRGENES WATER DISTRICT BEFORE SYSTEM CONSTRUCTION BEGINS.
- D. A SET OF "AS-BUILT" IRRIGATION SYSTEM DRAWINGS MUST BE SUPPLIED TO THE LAS VIRGENES WATER DISTRICT UPON COMPLETION OF THE INSTALLATION.
- E. THE LAS VIRGENES WATER DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF CONSTRUCTION OR PIPELINE INSTALLATION BY CALLING (818) 251-2100, TO SCHEDULE AN INSPECTION. INSPECTION MUST BE MADE BEFORE TRENCHING FOR BELOW GROUND PIPING ARE BACK-FILLED.
- F. PIPE MATERIAL:
- G. ALL ON-SITE POTABLE WATER LINES MUST BE COPPER, AND IDENTIFIED WITH A WARNING TAPE WITH A BLUE OR GREEN BACKGROUND AND THE WORDS: "CAUTION: POTABLE WATER LINE".
- H. ALL NEWLY CONSTRUCTED, BURIED RECYCLED WATER DISTRIBUTION PIPING, INCLUDING MAIN AND LATERAL LINES, VALVES AND OTHER APPURTENANCES SHOULD BE COLOR EXTRUDED PURPLE, PANTONE 512, AND EMBOSSED OR INTEGRALLY STAMPED/MARKED BY THE MANUFACTURER EVERY 24 INCHES ON TWO (2) SIDES: "CAUTION: RECYCLED WATER - DO NOT DRINK". DISTRIBUTION PIPING AND LATERAL LINES SHALL BE MARKED EVERY 24 INCHES ON OPPOSITE SIDES: "CAUTION: RECYCLED WATER - DO NOT DRINK".
- I. WHEN, DUE TO PREEXISTING CONDITIONS, RECYCLED AND POTABLE WATER LINES ARE OF THE SAME MATERIAL AND COLOR, AS IN THE CASE OF SITES WHERE THE IRRIGATION SYSTEM WAS CONVERTED TO RECYCLED WATER USE, WHEN THE POTABLE SYSTEM IS EXPANDED, COPPER WILL BE USED.
- J. ALL PRESSURE MAIN LINE PIPING FROM THE RECYCLED WATER SYSTEM SHALL BE INSTALLED TO MAINTAIN A TEN (10) FOOT MINIMUM HORIZONTAL SEPARATION FROM ALL POTABLE WATER PIPING. WHERE RECYCLED AND POTABLE WATER PRESSURE MAIN LINE PIPING CROSSES, THE RECYCLED WATER PIPING SHALL BE INSTALLED BELOW THE POTABLE WATER PIPING TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF ONE (1) FOOT, AND SHALL BE INSTALLED IN A PVC CLASS 200 PIPE SLEEVE THAT EXTENDS A MINIMUM OF FIVE (5) FEET ON EITHER SIDE OF THE POTABLE WATER PIPING.
- K. SIGN AGE INDICATING THAT RECYCLED WATER IS BEING USED FOR IRRIGATION SHALL BE LOCATED AT POINTS WHERE THE PUBLIC MAY ENTER THE USE AREA.
- L. ALL ABOVE GROUND RECYCLED WATER FACILITIES (CONTROLLERS, VALVES, RISERS, HEADS, QUICK COUPLERS, ETC.) MUST HAVE IDENTIFYING COLORS AND LABELS FOR RECYCLED WATER.
- M. HOSE BIBS ARE NOT PERMITTED ON THE RECYCLED WATER IRRIGATION SYSTEM. QUICK COUPLERS SHALL BE USED IF HOSE CONNECTIONS ARE NECESSARY.
- N. BACK FLOW PREVENTION DEVICES SHALL NOT BE INCLUDED IN NEWLY CONSTRUCTED RECYCLED WATER SYSTEMS UNLESS REQUESTED BY THE DISTRICT.
- O. BACK FLOW PREVENTION DEVICES ON PRE-EXISTING POTABLE IRRIGATION SYSTEMS BEING CONVERTED TO USE RECYCLED WATER SHALL BE REMOVED UNLESS REQUIRED BY THE DISTRICT.
- P. A REDUCED PRESSURE PRINCIPLE BACKFLOW DEVICE IS REQUIRED ON ANY AND ALL POTABLE WATER SERVICE TO A PROPERTY WHERE RECYCLED WATER IS BEING USED FOR IRRIGATION.
- Q. DRINKING FOUNTAINS AND PICNIC TABLES SHOULD BE PLACED TO MINIMIZE EXPOSURE TO DIRECT AND WIND BLOWN RECYCLED WATER SPRAY.
- R. RECYCLED WATER SHALL NOT BE SPRAYED OUTSIDE OF THE DESIGN AREA.
- S. RECYCLED WATER SHALL NOT BE USED TO IRRIGATE ANY ENCLOSED PRIVATE REAR YARD OR PATIO AREA. EXCEPTIONS CAN BE MADE IN THE CASE OF RANCHETTES, WHERE SPECIAL RULES TAKE PRECEDENCE.
- T. A PHYSICAL SEPARATION (BARRIER - IE: FENCE, CONCRETE MOW STRIP, OR EQUIVALENT, AS DETERMINED BY THE DISTRICT) IS REQUIRED BETWEEN AREAS IRRIGATED WITH RECYCLED AND AREAS IRRIGATED WITH POTABLE WATER.
- U. COMPLIANCE WITH THESE NOTES IS REQUIRED FOR RECYCLED WATER SERVICE.

IRRIGATION NOTES:

1. ALL MAIN LINE, LATERAL PIPING AND CONTROL WIRES, UNDER PAVING, SHALL BE IN SEPARATE SLEEVES. MAIN LINE AND LATERAL SLEEVES SHALL BE A MINIMUM OF 4". FOR PIPING LARGER THAN 2", THE SLEEVES SHALL BE TWICE THE PIPE DIAMETER. WIRE SLEEVING SHALL BE 2" OR LARGER TO ACCOMMODATE CONTROL AND COMMON WIRES. SLEEVES UNDER ROADWAYS SHALL BE 30" DEEP; BURY ALL OTHER MAIN LINE 18" DEEP AND ALL LATERALS 12" DEEP, EXCEPT AS NOTED WITHIN SLEEVES. THESE DEPTHS ARE MINIMUMS.
2. AFTER MAIN LINE HAS BEEN INSTALLED AND PRIOR TO COVERING THE MAIN LINE TRENCH, A PRESSURE TEST SHALL BE CONDUCTED. ALL PRESSURE LINES SHALL BE TESTED UNDER A HYDROSTATIC PRESSURE AT 160 PSI FOR A PERIOD NOT LESS THAN 24 HOURS. IF LEAKS DEVELOP, THE JOINTS SHALL BE REPLACED AND THE TEST REPEATED UNTIL THE ENTIRE MAIN LINE IS PROVEN TO BE WATERTIGHT. CERTIFICATION, IN WRITING, SHALL BE SUBMITTED TO THE OWNER VERIFYING THAT THE TEST HAS BEEN CONDUCTED SUCCESSFULLY.
3. ALL HEADS ADJACENT TO SIDEWALKS, DRIVEWAYS, AND ALL TURF HEADS SHALL BE ATTACHED TO POP-UP BODIES. TURF TO BE 4" POP-UPS AND SHRUB AREAS TO BE 6" POP-UPS IN PLANTERS LESS THAN 6' IN WIDTH AND 12" POP-UPS IN PLANTERS GREATER THAN 6' IN WIDTH. ALL OTHER SHRUB HEADS TO BE ON RISERS 12" ABOVE FINISH GRADE.
4. THE SPRINKLER SYSTEM DESIGN IS BASED ON A DESIGN PRESSURE OF XX PSI AND A MAXIMUM FLOW OF 30 GPM. THE IRRIGATION CONTRACTOR SHALL VERIFY THE PRESSURE AND FLOW PRIOR TO CONSTRUCTION. ANY VARIANCE FROM THE DESIGN PRESSURE SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT WITHIN 24 HOURS AND PRIOR TO COMMENCEMENT OF ANY WORK. IF IT IS FOUND THAT THE PRESSURE AND/OR FLOW DEVIATE FROM THE DESIGN AND THE CONTRACTOR COMMENCES WORK WITHOUT NOTIFYING THE LANDSCAPE ARCHITECT, ALL CORRECTIVE ACTION NECESSARY TO ESTABLISH A FUNCTIONAL IRRIGATION SYSTEM SHALL BE AT THE CONTRACTOR'S EXPENSE.
5. UPON COMPLETION OF THE IRRIGATION SYSTEM INSTALLATION, A COVERAGE TEST SHALL BE CONDUCTED WITH THE LANDSCAPE ARCHITECT PRESENT.
6. NOTE FOR OAKS:
IRRIGATION CONTRACTOR TO HAND TRENCH UNDER ALL EXISTING OAKS AND SPECIMEN TREES AS DESIGNATED TO AVOID OAK ROOT IMPACT. KEEP WIRES AND LATERAL LINES AS CLOSE TO CURB OR HARDSCAPE AS POSSIBLE.
CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE OAK TREE PERMIT.

EQUIPMENT LEGEND			
SYMBOL	MANUFACTURER / MODEL NUMBER	SIZE	DETAIL
	EXISTING WATER METER	1-1/2"	N/A
	EXISTING BRASS MASTER CONTROL VALVE	-	A - LD-1
	EXISTING FLOW SENSOR	-	B - LD-1
	RAINBIRD ESP-LXME SERIES - 48 STATION CONTROLLER (IN STAINLESS STEEL CABINET)	-	E - LD-1
	NIBCO BRONZE GATE VALVE (PR-113-K) - W/ PURPLE LOCKING COVER	LINE SIZE	F' - CD-4
	HUNTER QUICK COUPLING VALVE (HQ-44LRC-AW) - W/ PURPLE LOCKING COVER	3/4"	B' - CD-4
	RAIN BIRD PESB SERIES - REMOTE CONTROL VALVE - W/ PURPLE LOCKING COVER	PLAN SIZE	A' - CD-4
	RAIN BIRD CONTROL ZONE KIT (XCZ-100-PRB) - UNDER 20 GPM (30 PSI) - W/ PURPLE LOCKING COVER	1"	G' - CD-4
	RAIN BIRD CONTROL ZONE KIT (XCZ-PRB-150-COM) - OVER 20 GPM (30 PSI) - W/ PURPLE LOCKING COVER	1-1/2"	G' - CD-4
	SCH 40 PVC IRRIGATION PRESSURE MAINLINE - (PURPLE PIPE) (CL 315 FOR PIPE 1-1/2" AND LARGER*) - 24" MINIMUM COVER	PLAN SIZE	D' - CD-4
	EXISTING SCH 40 PVC IRRIGATION PRESSURE MAINLINE	PLAN SIZE	D' - CD-4
	PVC NON-PRESSURE LATERAL LINE (CL 315 FOR 3/4", CL 200 FOR 3/8" OR LARGER), 12" MINIMUM COVER (PURPLE PIPE)	PLAN SIZE	C' - CD-4
	RAINBIRD XT-700		
	SCH 40 PVC SLEEVE, 24" MINIMUM COVER UNDER WALKWAYS, 36" MINIMUM UNDER ROADWAYS - EXTEND SLEEVES 18" BEYOND HARDCAPE		
	IRRIGATION CONTROL WIRE TO BE #14UF AWG DIRECT BURIAL (U.L. APPROVED)	N/A	-
	SPEARS- DS 400 PRE-FILLED WIRE CONNECTORS OR EQUAL, FOR ALL WIRE CONNECTIONS.	N/A	-

SPRINKLER LEGEND						
SYMBOL	MANUFACTURER / MODEL	NOZZLE	RAD	PSI	FLOW - GPM Q / H / F	DETAIL
MP ROTATORS ON POP-UP BODY						
	HUNTER PROS-12-CV	MPCORNER	8'-15'	40	0.19 - 0.45	D' - LD-3
	HUNTER PROS-12-CV	MP800-90/360	8'-12'	40	0.19 - 0.75	D' - LD-3
	HUNTER PROS-12-CV	MP1000-90/210/360	8'-15'	40	0.40 - 1.47	D' - LD-3
DRIP EMITTERS PER PLANT (2) XB-10PC - 1 GAL. AND SMALLER, (2) XB-20PC - 5 GAL)						
	RAINBIRD	XB-10PC	-	30	1 GPH	B' / C' - LD-3
	RAINBIRD	XB-20PC	-	30	2 GPH	B' / C' - LD-3
BUBBLER ON FIXED RISER FOR TREES (2 PER TREE)						
	HUNTER	MSBN-50H	1'	30	0.50	D' - LD-3
SUBSURFACE DRIP TUBING						
	NETAFIM DRIPLINE	TLHCVXR-RWS-18	-	-	0.53 GPH	A' - LD-3
	NETAFIM MANUAL FLUSH VALVE	TLSOV	-	-	-	
	HUNTER DRIP SYSTEM INDICATOR	ECO-INDICATOR	-	-	-	

TREE WATERING CHART

CONTAINER SIZE:	BUBBLER	QTY PER TREE	GPM PER TREE
24" BOX	HUNTER RZWS-18-25-CV-R	2	0.50
48" BOX	HUNTER RZWS-36-50-CV-R	2	1.0
60" - 84" BOX	HUNTER RZWS-36-50-CV-R	3	1.5

SPECIMEN OAK / TRANSPLANTS (SEE DETAIL)

84" BOX - 120" BOX	HUNTER PCB-25-R	12	3.0
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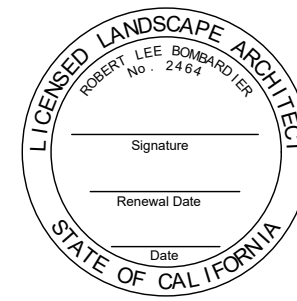
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APPROVED BY:

Kimley»Horn

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ROBERT BOMBARDIER RLA 2464 DATE

REVIEWED BY:

CHARMAINE YAMBAO 8/4/15
ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA 8/4/15
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE



PREPARED BY:

L. Newman Design Group, Inc.
 ■ Landscape Architecture
 ■ Planning
 ■ Horticulture
 ■ Biological Restoration
 ■ 31300 Via Colinas ■ Suite 104 ■ Westlake Village, CA 91362-3924
 ■ Phone: (818) 991-5056 ■ Fax: (818) 991-3478
 ■ E-mail: indg @ indg.net ■ Website: www.indg.net

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KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS

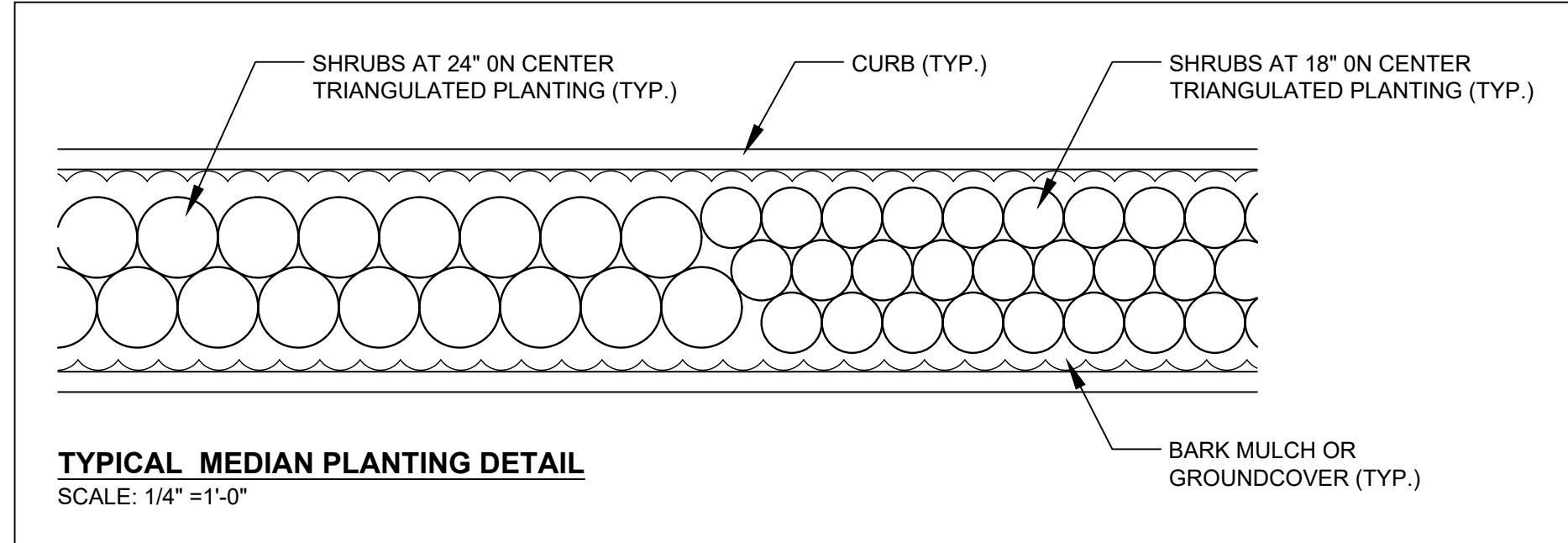
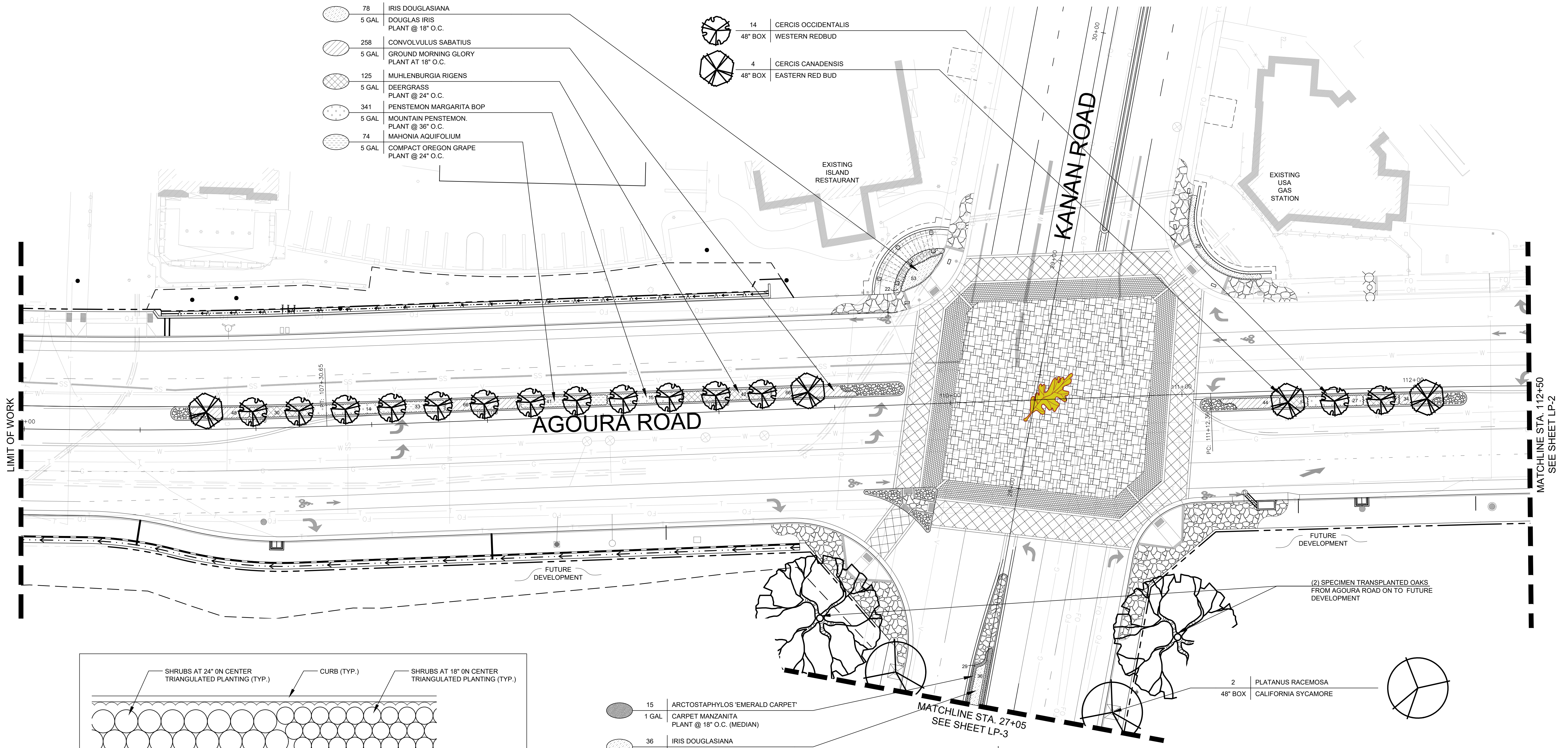
IRRIGATION LEGEND LI-5

DESIGNED BY: BB	DRAWN BY: RK	CHECKED BY: XX	KHA JOB NUMBER 099083026
			SHEET 33 OF 42

- 78 IRIS DOUGLASIANA
- 5 GAL DOUGLAS IRIS PLANT @ 18" O.C.
- 258 CONVULVULUS SABATIUS
- 5 GAL GROUND MORNING GLORY PLANT AT 18" O.C.
- 125 MUHLENBURGIA RIGENS
- 5 GAL DEERGRASS PLANT @ 24" O.C.
- 341 PENSTEMON MARGARITA BOP
- 5 GAL MOUNTAIN PENSTEMON PLANT @ 36" O.C.
- 74 MAHONIA AQUIFOLIUM
- 5 GAL COMPACT OREGON GRAPE PLANT @ 24" O.C.
- 14 CERCIS OCCIDENTALIS
- 48" BOX WESTERN REDBUD
- 4 CERCIS CANADENSIS
- 48" BOX EASTERN RED BUD

LIMIT OF WORK

MATCHLINE STA. 112+50
SEE SHEET LP-2



- 15 ARCTOSTAPHYLOS 'EMERALD CARPET'
- 1 GAL CARPET MANZANITA PLANT @ 18" O.C. (MEDIAN)
- 36 IRIS DOUGLASIANA
- 5 GAL DOUGLAS IRIS PLANT @ 36" O.C. (MEDIAN)

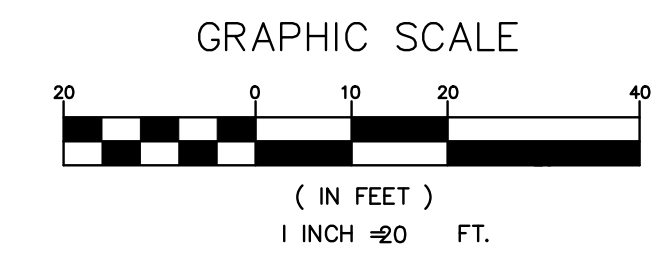
NOTE:
REFER TO LP-3 FOR SOIL PREPARATION AND BACKFILL MIX SPECIFICATIONS

PREPARED BY:
L. Newman Design Group, Inc.

- Landscape Architecture
- Planning
- Horticulture
- Biological Restoration

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APPROVED BY:
Kimley»Horn

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ROBERT BOMBARDIER RLA 2464 DATE



REVIEWED BY:
CHARMAINE YAMBABO
ASSOCIATE CIVIL ENGINEER
DATE 8/4/15

APPROVED BY:
RAMIRO ADEVA
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER
DATE 8/4/15



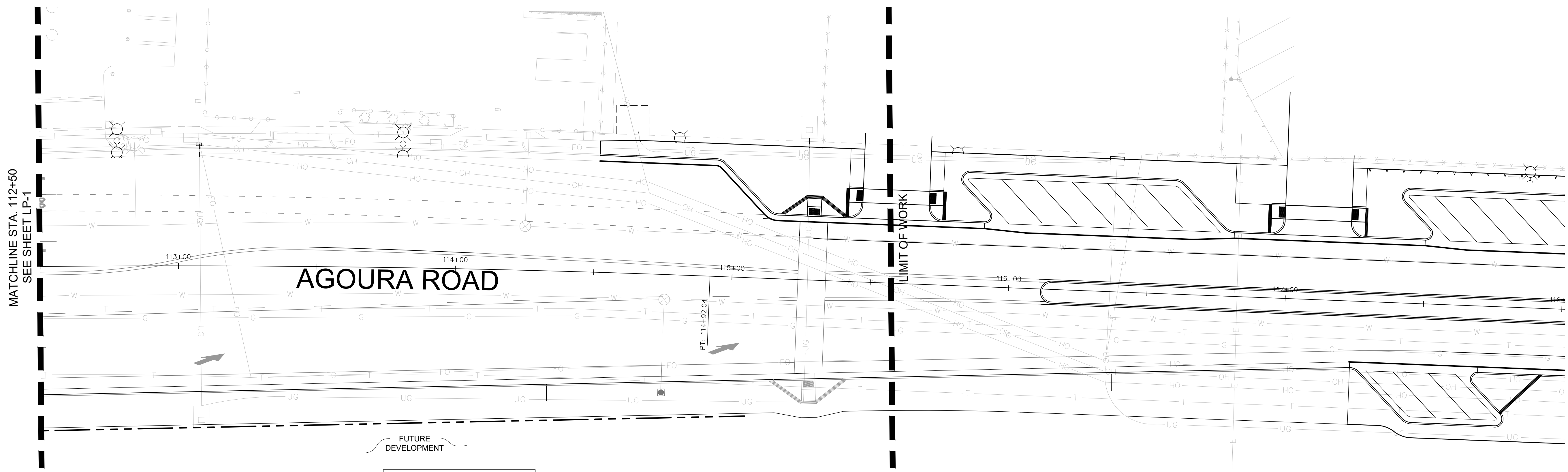
KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS

PLANTING PLAN LP-1

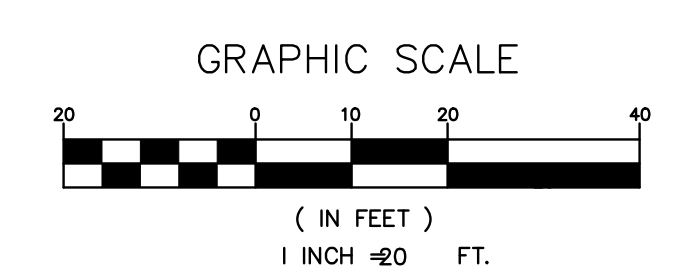
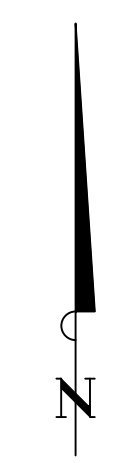
DESIGNED BY: BB
DRAWN BY: RK
CHECKED BY: XX

KHA JOB NUMBER: 099083026

SHEET 34 OF 42



NO NEW PLANTING
OCCURS ON THIS SHEET



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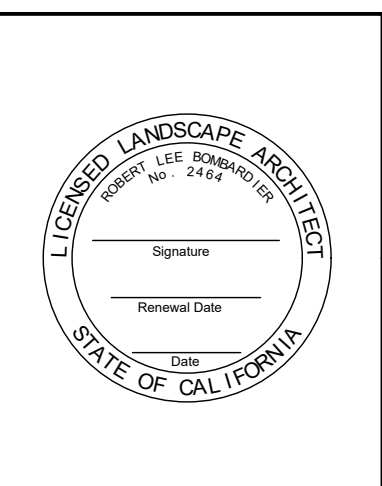
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CHARMAINE YAMBAO 8/4/15
ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA 8/4/15
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE



PREPARED BY:

L. Newman Design Group, Inc.

- Landscape Architecture
- Planning
- Horticulture
- Biological Restoration

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KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS

PLANTING PLAN LP-2

DESIGNED BY: BB
DRAWN BY: RK
CHECKED BY: XX

KHA JOB NUMBER: 099083026

SHEET 35 OF 42

SOIL PREPARATION SPECIFICATIONS

PREPLANT SOIL AMENDMENTS AND FERTILIZERS

- 3 CU. YDS. AGROMEND
- 20 LBS. 8-8-4 FERTILIZER
- ROTOTILL TO 8" DEPTH

A. GROUND COVER

1. SOIL AMENDMENTS	APPLY PER 1000 sq. ft.
• ORGANIC (WELL-COMPOSTED) NITROLIZED REDWOOD SHAVINGS	2.00 cu. yds.
2. FERTILIZERS	APPLY PER 1000 sq. ft.
• PHOSPHORUS (P2 O5)	1.30 lbs
• POTASSIUM (K2O)	2.50 lbs
• SOIL SULPHUR	25.0 lbs
• IRON (Fe)	0.50 lbs
• ZINC (Zn)	3.80 lbs

ALL GROUND COVER AREAS SHALL RECEIVE THESE AMENDMENTS WELL BLENDED AND FILLED INTO THE TOP 4"-6" AFTER INCORPORATION THE ABOVE SOIL PREPARATION INTO THE SITE SPREAD 25 LBS EACH OF GYPSUM AND SOIL SULPHUR ON THE SURFACE.

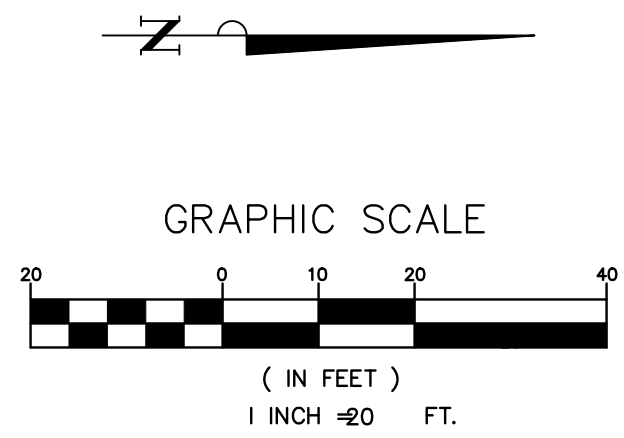
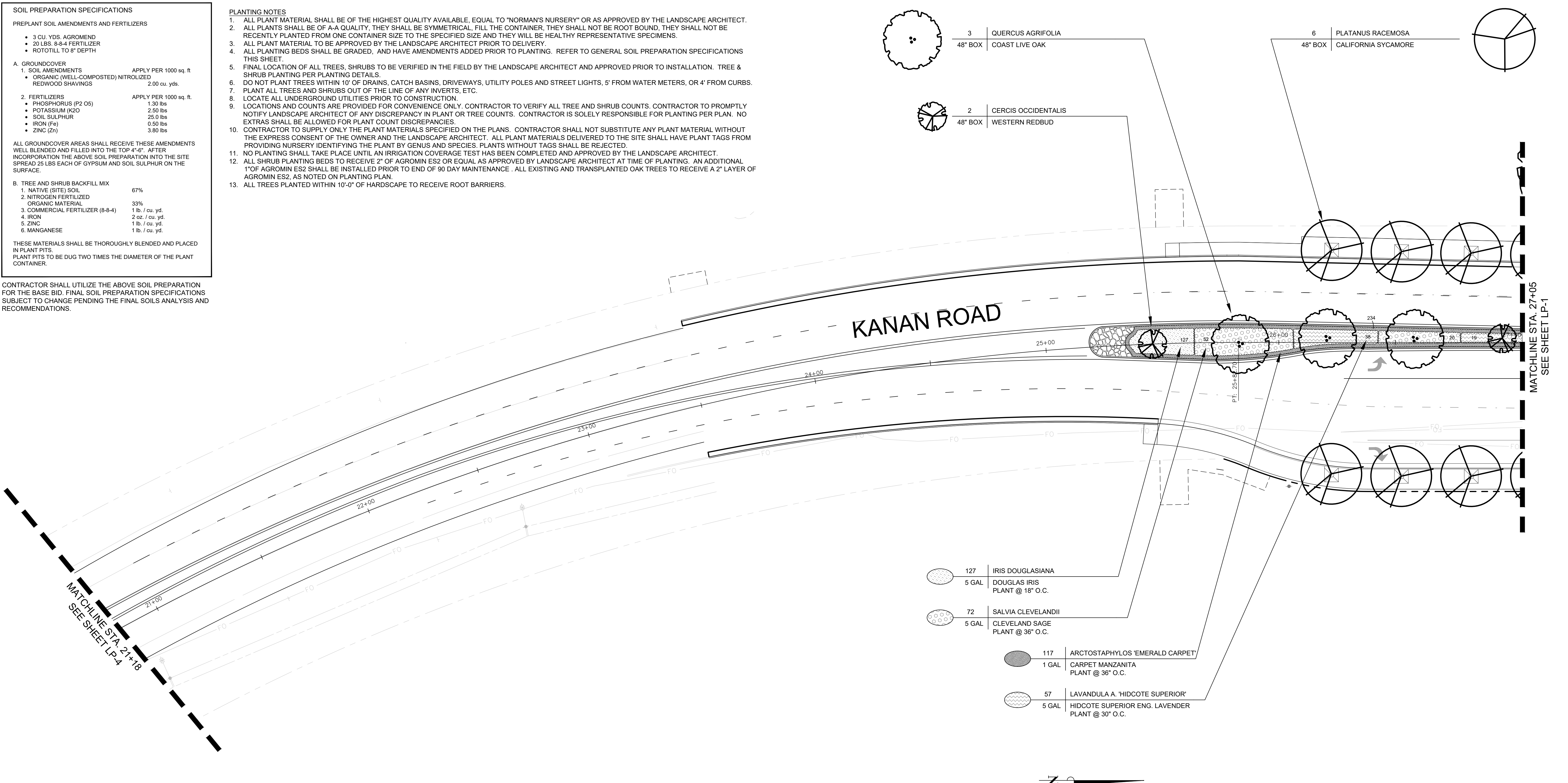
B. TREE AND SHRUB BACKFILL MIX

1. NATIVE (SITE) SOIL	67%
2. NITROGEN FERTILIZED ORGANIC MATERIAL	33%
3. COMMERCIAL FERTILIZER (8-8-4)	1 lb. / cu. yd.
4. IRON	2 oz. / cu. yd.
5. ZINC	1 lb. / cu. yd.
6. MANGANESE	1 lb. / cu. yd.

THESE MATERIALS SHALL BE THOROUGHLY BLENDED AND PLACED IN PLANT PITS.
PLANT PITS TO BE DUG TWO TIMES THE DIAMETER OF THE PLANT CONTAINER.

CONTRACTOR SHALL UTILIZE THE ABOVE SOIL PREPARATION FOR THE BASE BID. FINAL SOIL PREPARATION SPECIFICATIONS SUBJECT TO CHANGE PENDING THE FINAL SOILS ANALYSIS AND RECOMMENDATIONS.

- PLANTING NOTES**
1. ALL PLANT MATERIAL SHALL BE OF THE HIGHEST QUALITY AVAILABLE, EQUAL TO "NORMAN'S NURSERY" OR AS APPROVED BY THE LANDSCAPE ARCHITECT.
 2. ALL PLANTS SHALL BE OF A-A QUALITY, THEY SHALL BE SYMMETRICAL, FILL THE CONTAINER, THEY SHALL NOT BE ROOT BOUND, THEY SHALL NOT BE RECENTLY PLANTED FROM ONE CONTAINER SIZE TO THE SPECIFIED SIZE AND THEY WILL BE HEALTHY REPRESENTATIVE SPECIMENS.
 3. ALL PLANT MATERIAL TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY.
 4. ALL PLANTING BEDS SHALL BE GRADED, AND HAVE AMENDMENTS ADDED PRIOR TO PLANTING. REFER TO GENERAL SOIL PREPARATION SPECIFICATIONS THIS SHEET.
 5. FINAL LOCATION OF ALL TREES, SHRUBS TO BE VERIFIED IN THE FIELD BY THE LANDSCAPE ARCHITECT AND APPROVED PRIOR TO INSTALLATION. TREE & SHRUB PLANTING PER PLANTING DETAILS.
 6. DO NOT PLANT TREES WITHIN 10' OF DRAINS, CATCH BASINS, DRIVEWAYS, UTILITY POLES AND STREET LIGHTS, 5' FROM WATER METERS, OR 4' FROM CURBS.
 7. PLANT ALL TREES AND SHRUBS OUT OF THE LINE OF ANY INVERTS, ETC.
 8. LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
 9. LOCATIONS AND COUNTS ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR TO VERIFY ALL TREE AND SHRUB COUNTS. CONTRACTOR TO PROMPTLY NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCY IN PLANT OR TREE COUNTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR PLANTING PER PLAN. NO EXTRAS SHALL BE ALLOWED FOR PLANT COUNT DISCREPANCIES.
 10. CONTRACTOR TO SUPPLY ONLY THE PLANT MATERIALS SPECIFIED ON THE PLANS. CONTRACTOR SHALL NOT SUBSTITUTE ANY PLANT MATERIAL WITHOUT THE EXPRESS CONSENT OF THE OWNER AND THE LANDSCAPE ARCHITECT. ALL PLANT MATERIALS DELIVERED TO THE SITE SHALL HAVE PLANT TAGS FROM PROVIDING NURSERY IDENTIFYING THE PLANT BY GENUS AND SPECIES. PLANTS WITHOUT TAGS SHALL BE REJECTED.
 11. NO PLANTING SHALL TAKE PLACE UNTIL AN IRRIGATION COVERAGE TEST HAS BEEN COMPLETED AND APPROVED BY THE LANDSCAPE ARCHITECT.
 12. ALL SHRUB PLANTING BEDS TO RECEIVE 2" OF AGROMIN ES2 OR EQUAL AS APPROVED BY LANDSCAPE ARCHITECT AT TIME OF PLANTING. AN ADDITIONAL 1" OF AGROMIN ES2 SHALL BE INSTALLED PRIOR TO END OF 90 DAY MAINTENANCE. ALL EXISTING AND TRANSPLANTED OAK TREES TO RECEIVE A 2" LAYER OF AGROMIN ES2, AS NOTED ON PLANTING PLAN.
 13. ALL TREES PLANTED WITHIN 10'-0" OF HARDSCAPE TO RECEIVE ROOT BARRIERS.



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APPROVED BY:

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APPROVED BY:

RAMIRO ADEVA 8/4/15
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE



PREPARED BY:

L. Newman Design Group, Inc.

- Landscape Architecture
- Planning
- Horticulture
- Biological Restoration

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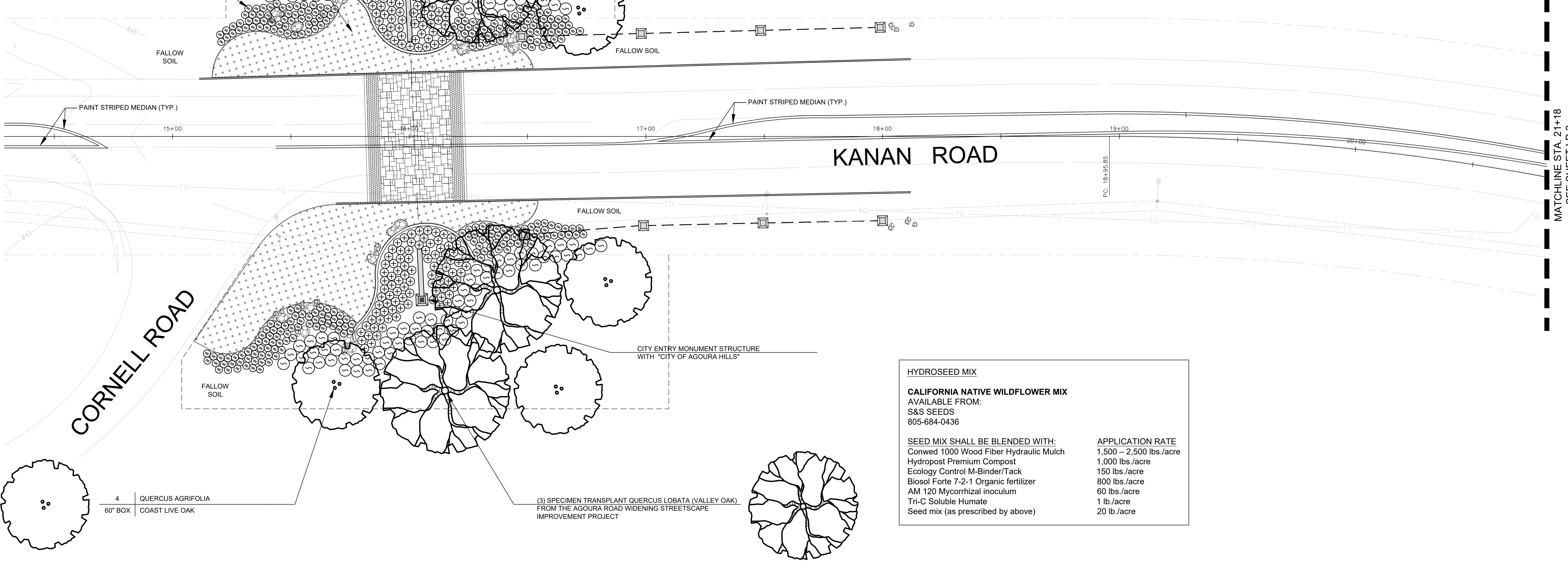
**KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS**

PLANTING PLAN LP-3

DESIGNED BY: BB DRAWN BY: RK CHECKED BY: XX KHA JOB NUMBER: 099083026

SHEET 36 OF 42

- ⊕ 144 | MUHLENBURGIA RIGEN
5 GAL DEERGRASS PLANT @ 24" O.C.
- ⊙ 114 | SALVIA LEUCANTHA 'MIDNIGHT'
5 GAL MIDNIGHT MEXICAN SAGE
- HYDROSEED
CALIFORNIA NATIVE WILDFLOWER MIX
SEE MIX BELOW (5,336 SF)
- ⊙ 259 | PENSTEMON MARGARITA BOP
5 GAL MOUNTAIN PENSTEMON PLANT @ 36" O.C.



HYDROSEED MIX

CALIFORNIA NATIVE WILDFLOWER MIX
AVAILABLE FROM:
S&S SEEDS
805-684-0436

SEED MIX SHALL BE BLENDED WITH:	APPLICATION RATE
Conwed 1000 Wood Fiber Hydraulic Mulch	1,500 – 2,500 lbs./acre
Hydropost Premium Compost	1,000 lbs./acre
Ecology Control M-Binder/Tack	150 lbs./acre
Biosol Forte 7-2-1 Organic fertilizer	800 lbs./acre
AM 120 Mycorrhizal inoculum	60 lbs./acre
Tri-C Soluble Humate	1 lb./acre
Seed mix (as prescribed by above)	20 lb./acre

- 4 | QUERCUS AGRIFOLIA
60" BOX COAST LIVE OAK
- (3) SPECIMEN TRANSPLANT QUERCUS LOBATA (VALLEY OAK)
FROM THE AGOURA ROAD WIDENING STREETSCAPE IMPROVEMENT PROJECT

MATCHLINE STA. 21+18
SEE SHEET LP-3

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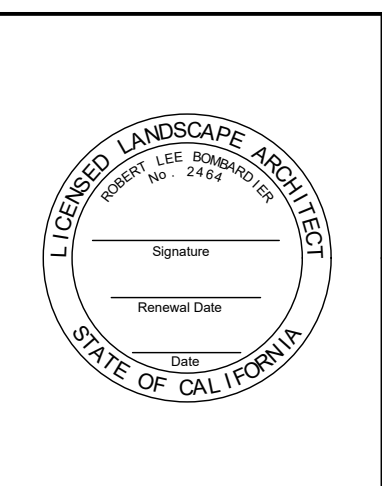
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ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA 8/4/15
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE



NOTE:
REFER TO LP-3 FOR SOIL PREPARATION AND BACKFILL MIX SPECIFICATIONS

PREPARED BY:
L. Newman Design Group, Inc.

- Landscape Architecture
- Planning
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- Biological Restoration

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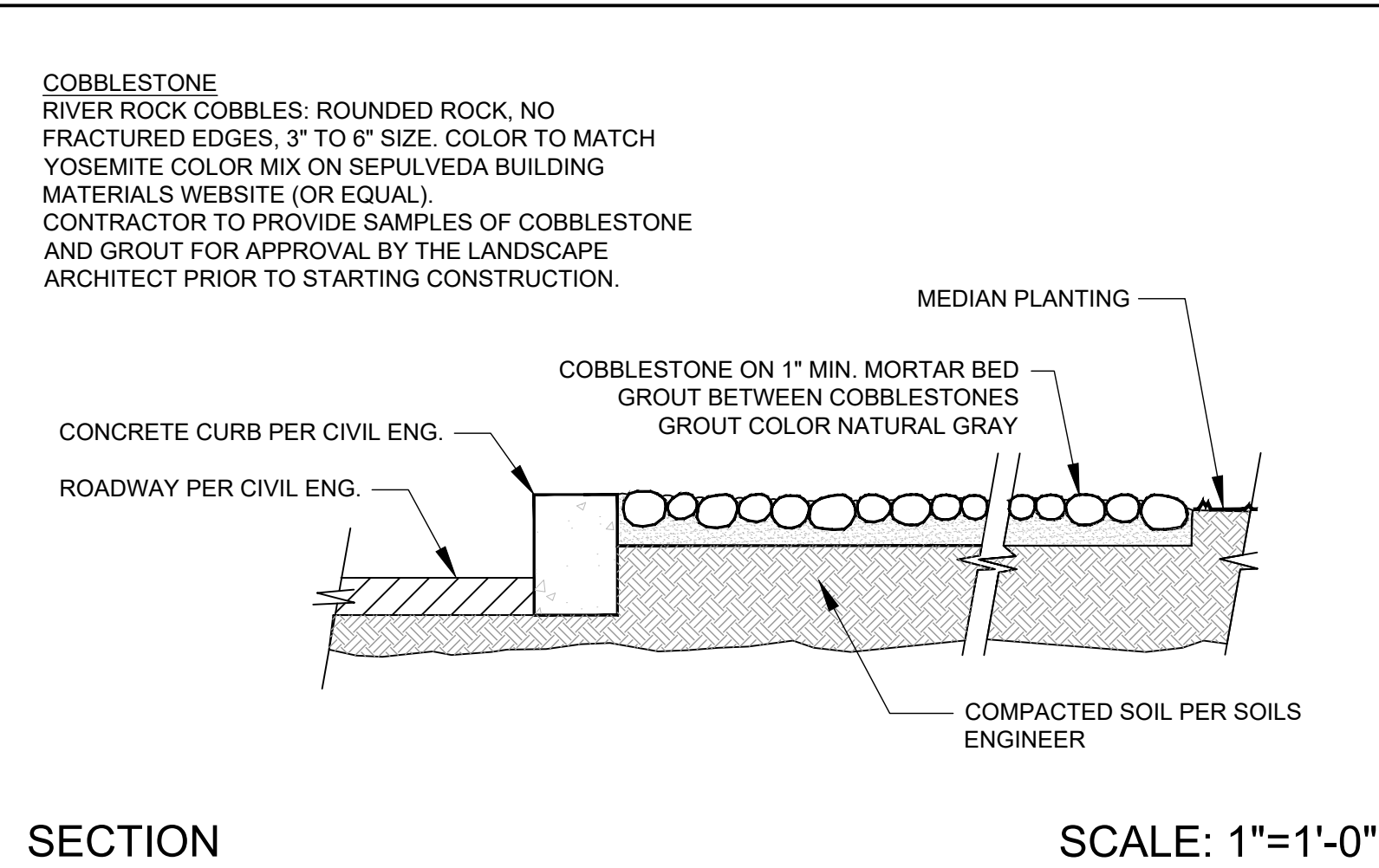
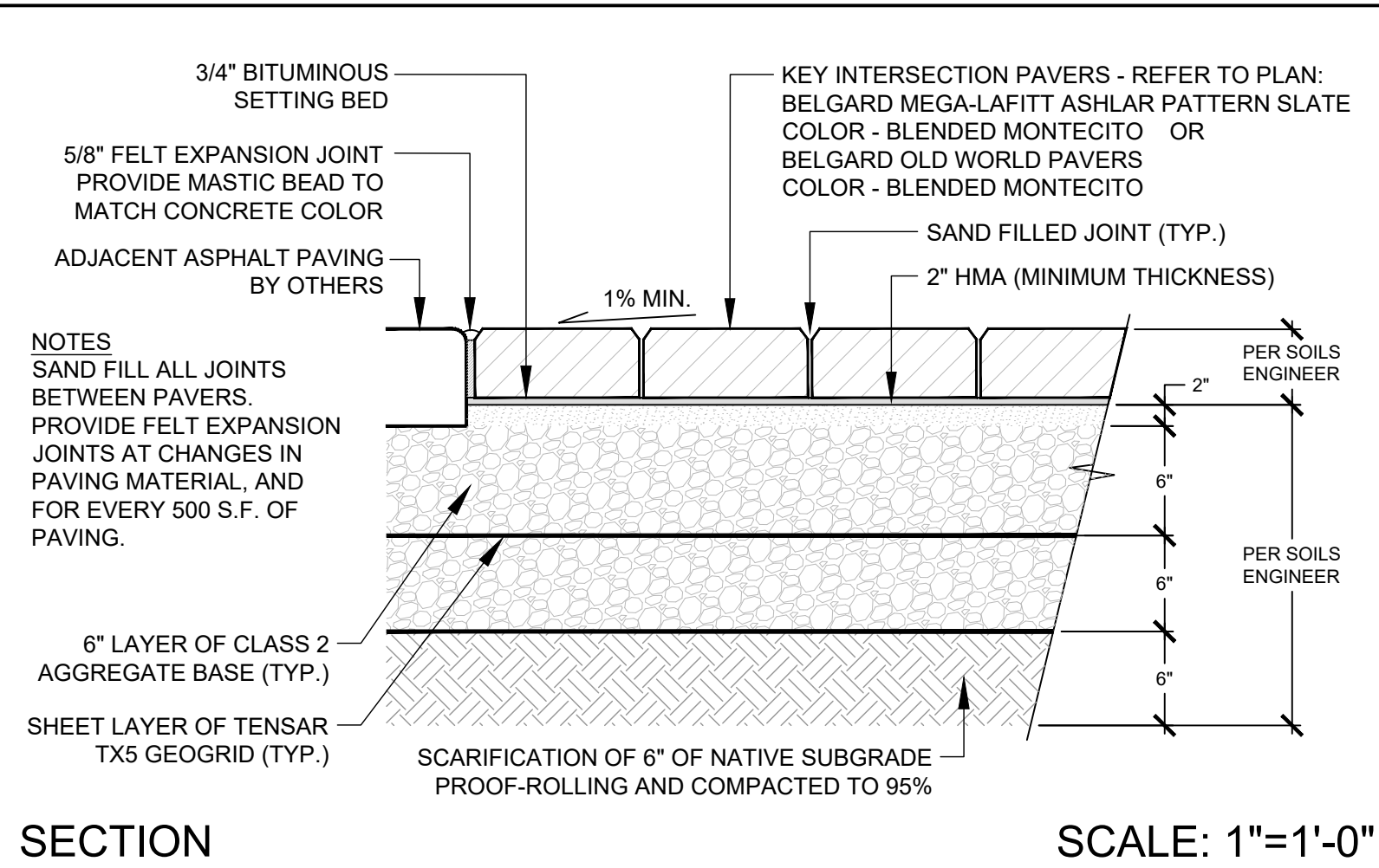
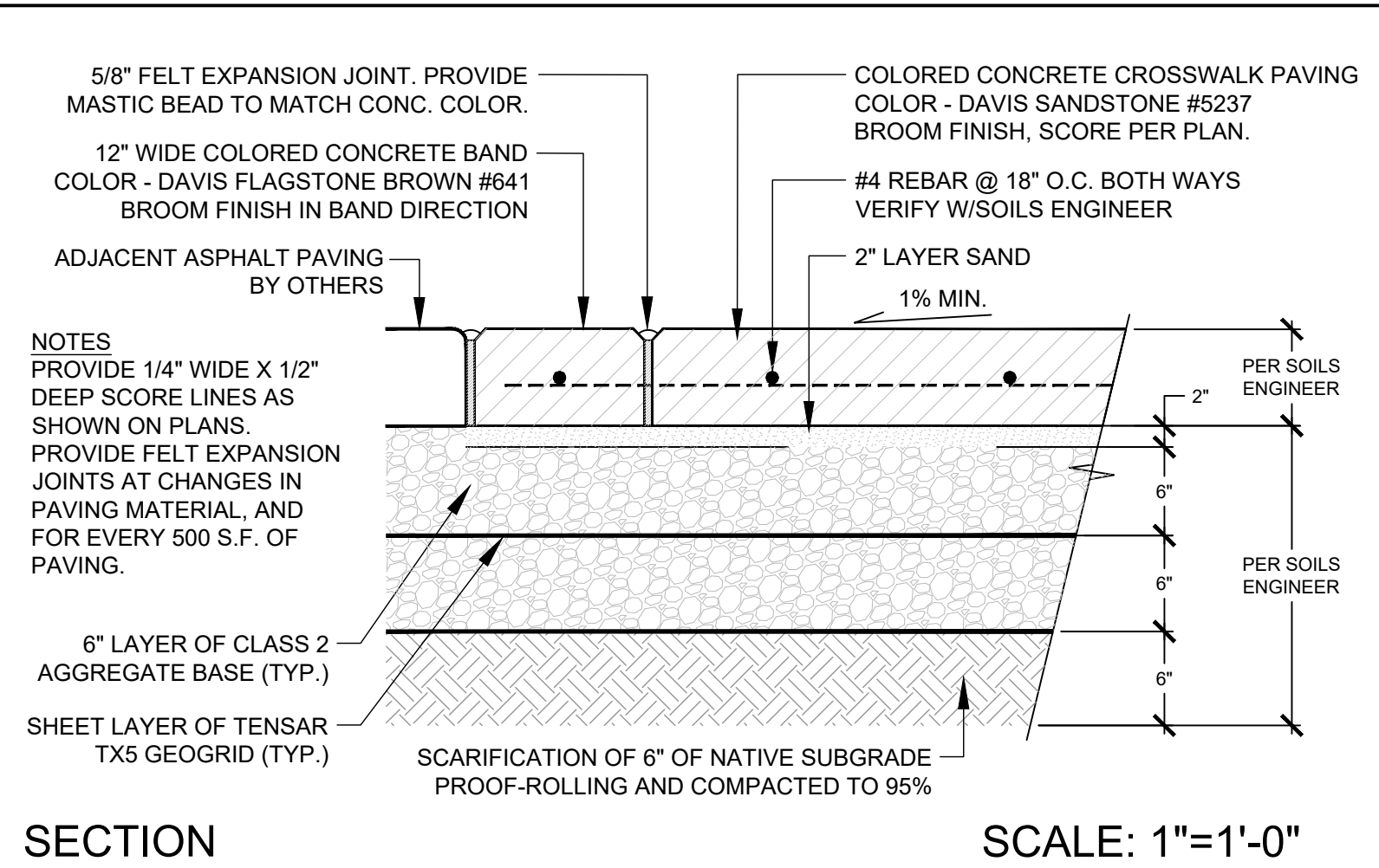
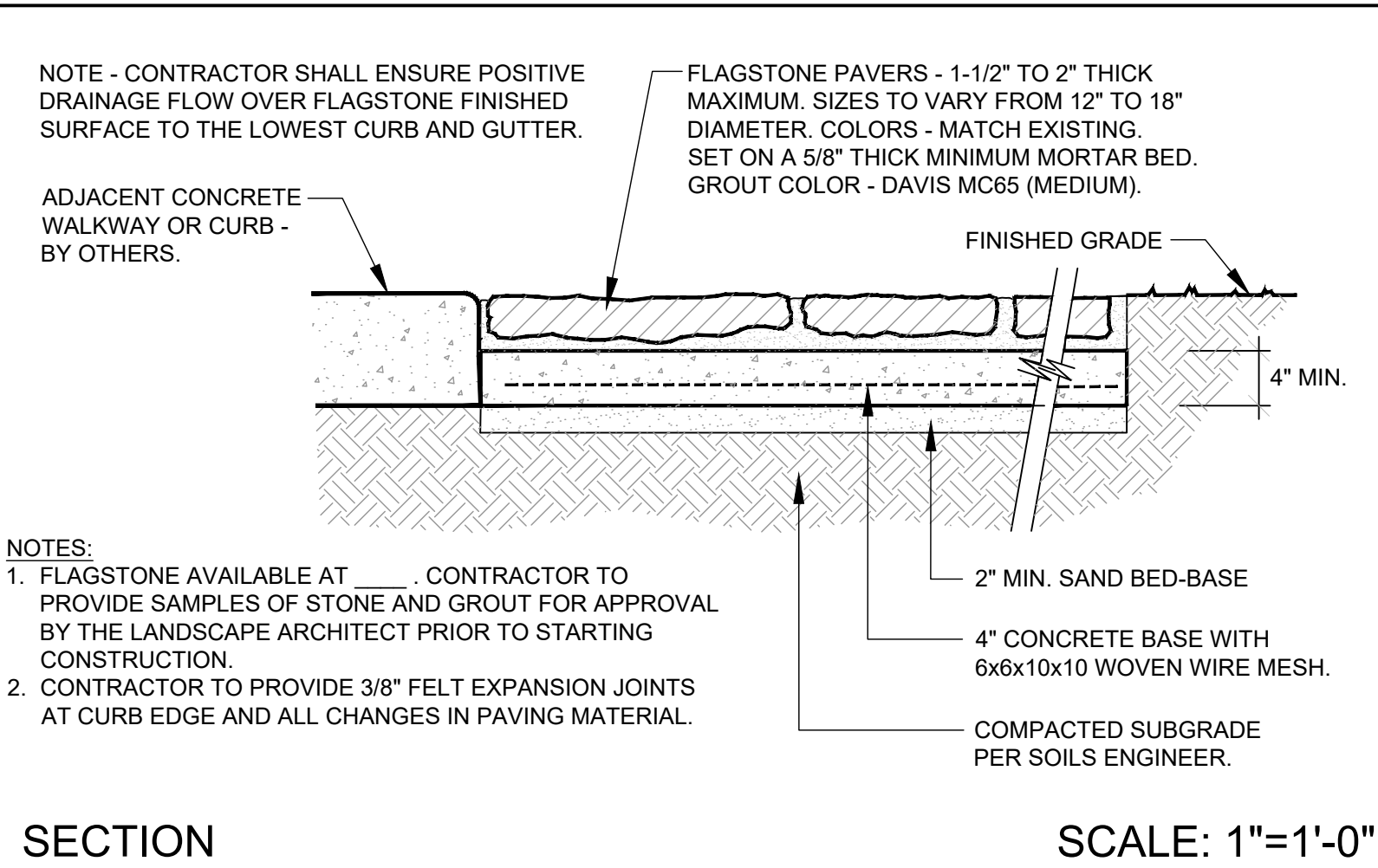
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**KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS**

PLANTING PLAN LP-4

DESIGNED BY: BB	DRAWN BY: RK	CHECKED BY: XX	KHA JOB NUMBER 099083026
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SHEET 37 OF 42

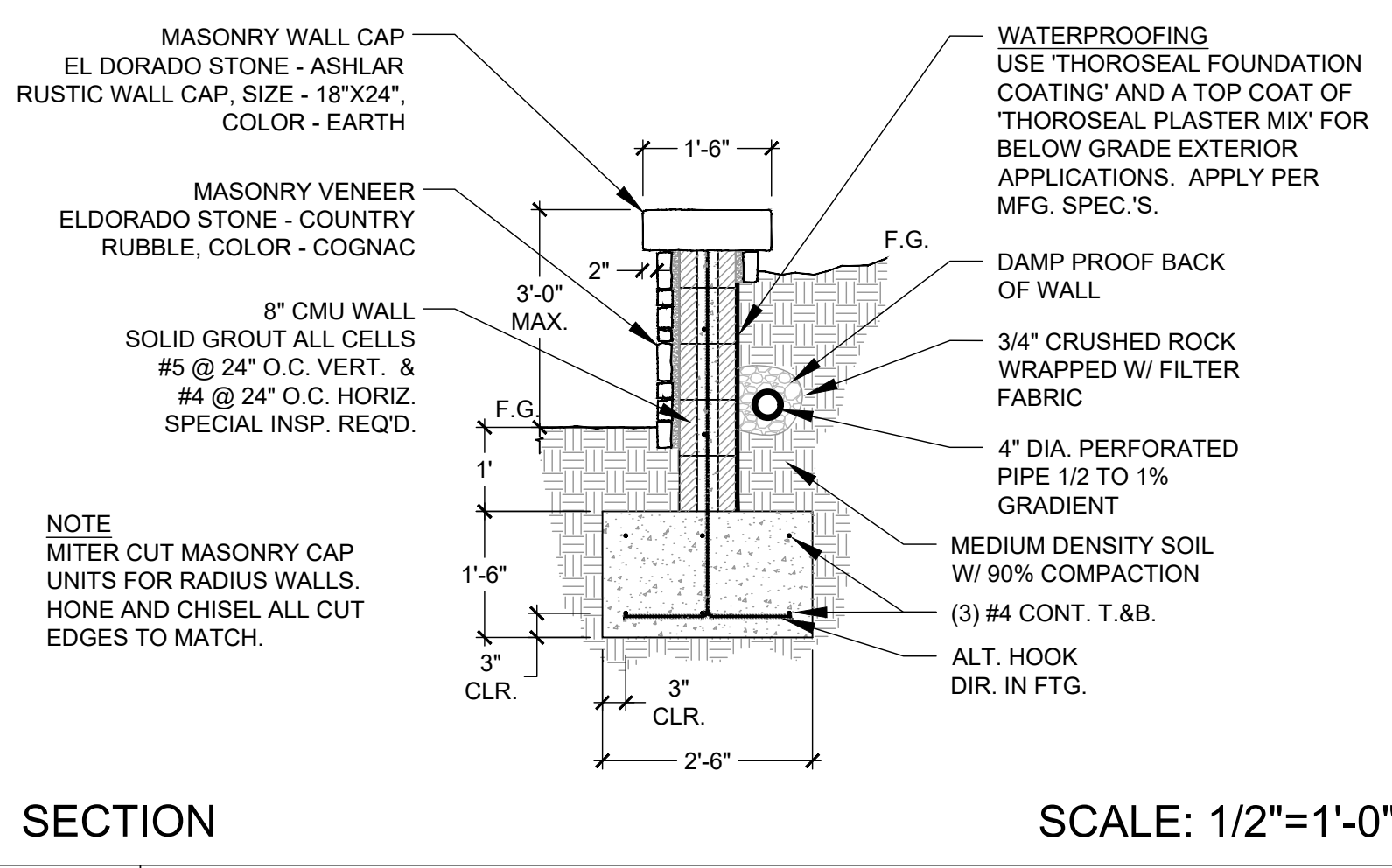
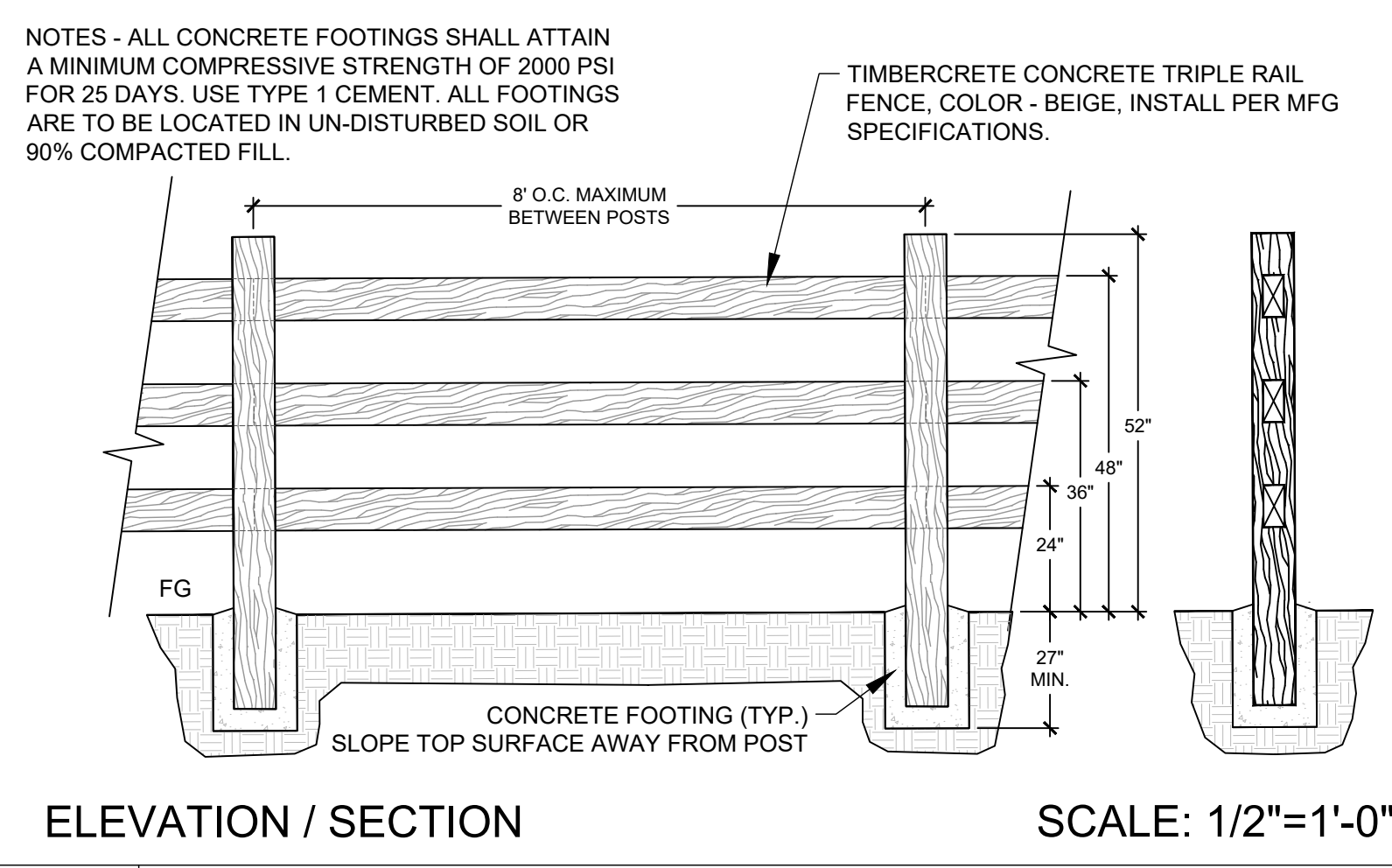
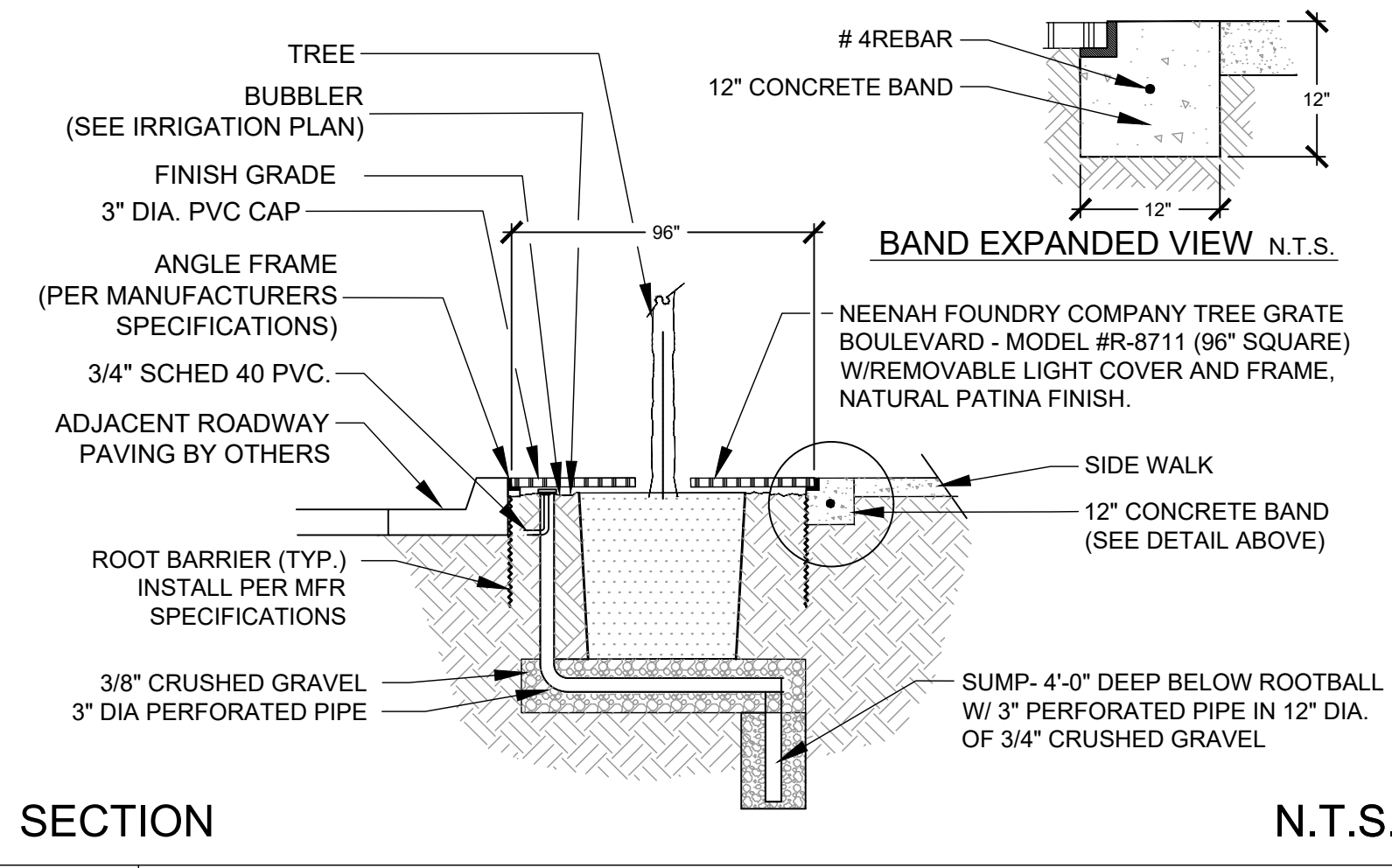
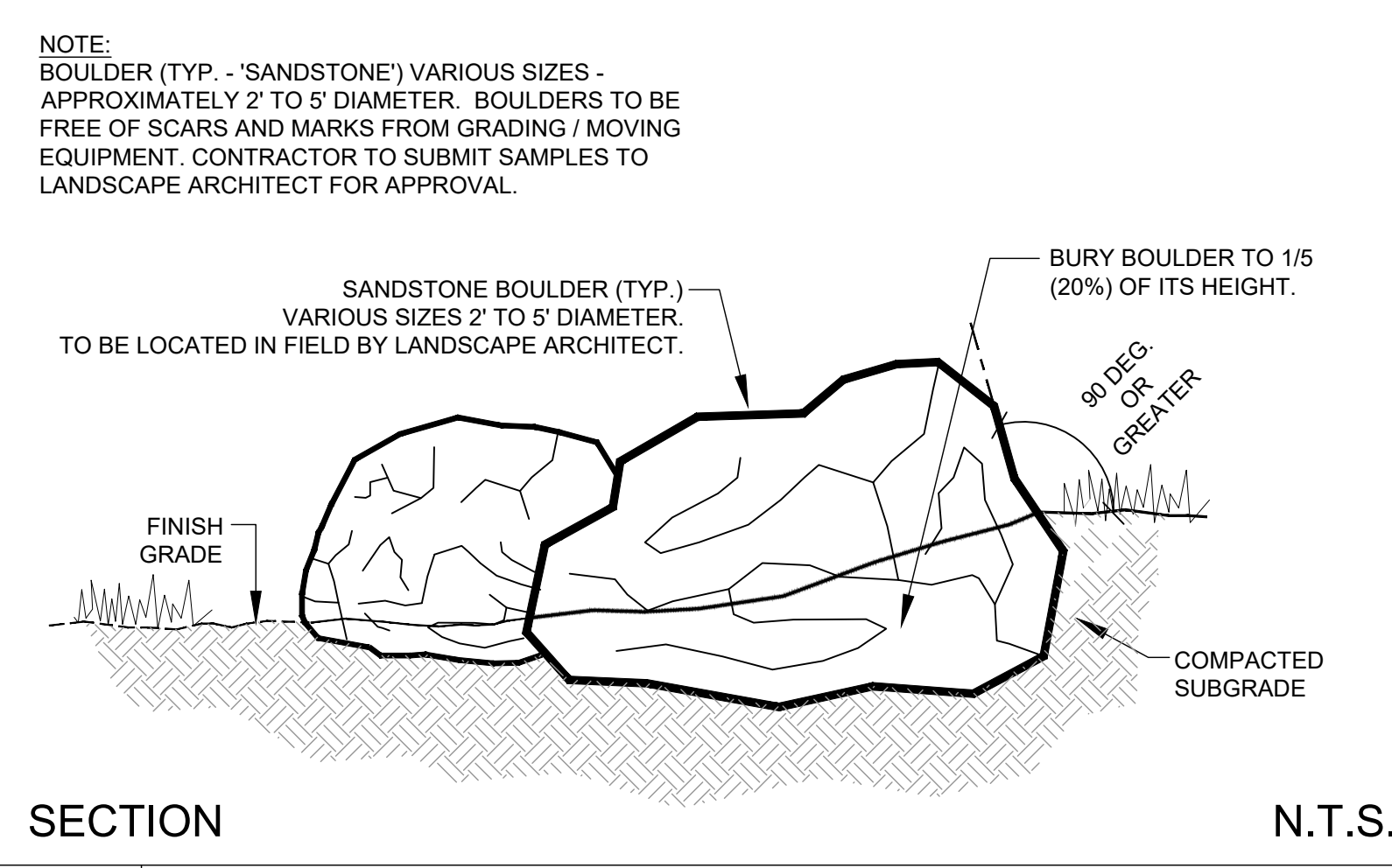


A FLAGSTONE PAVING PEDESTRIAN WALKWAYS

B COLORED CONCRETE PAVING AND BANDS AT PEDESTRIAN STREET CROSSINGS

C INTERLOCKING PAVERS VEHICULAR - ON CRUSHED AGGREGATE BASE

D COBBLESTONE PAVING MEDIANS

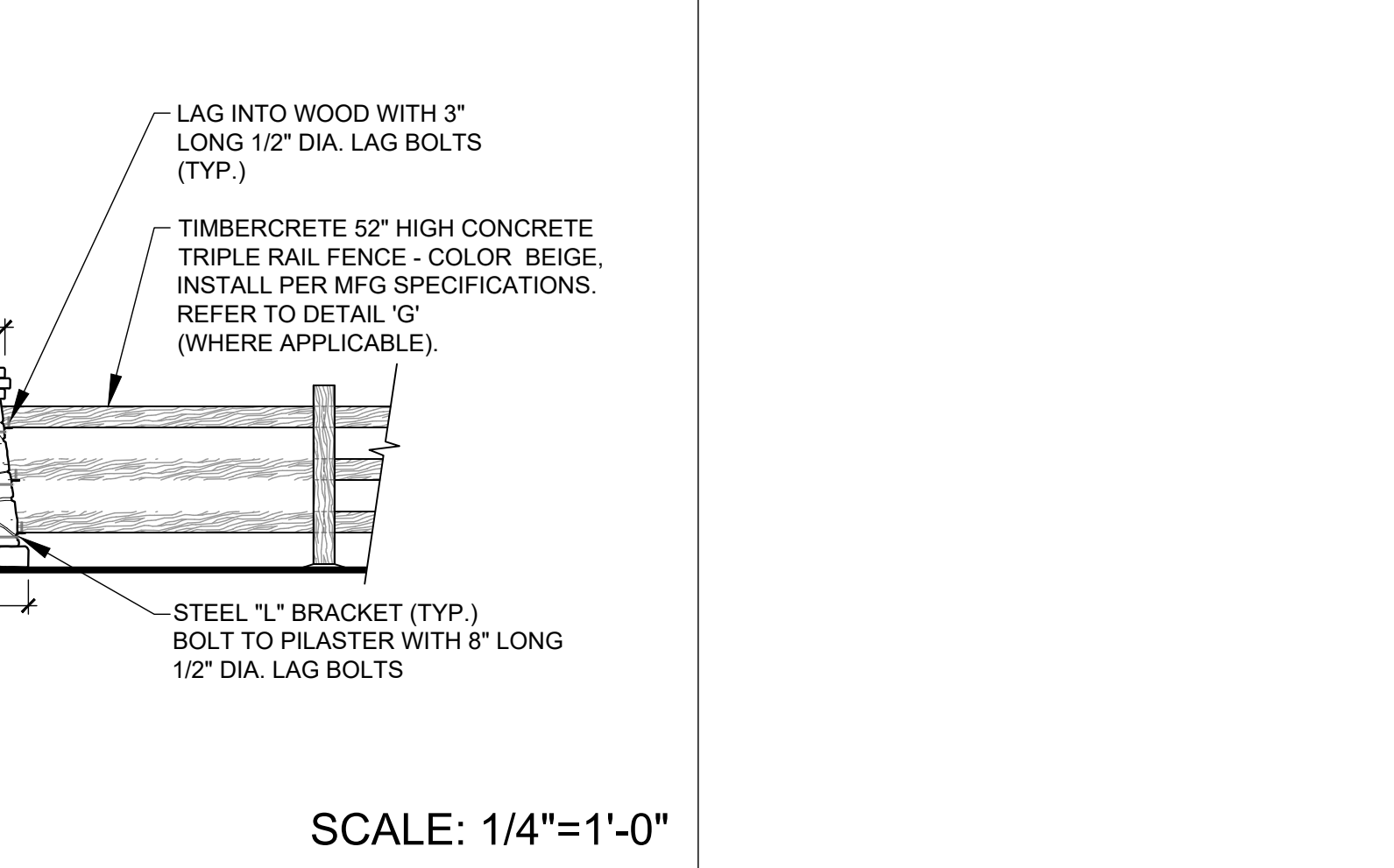
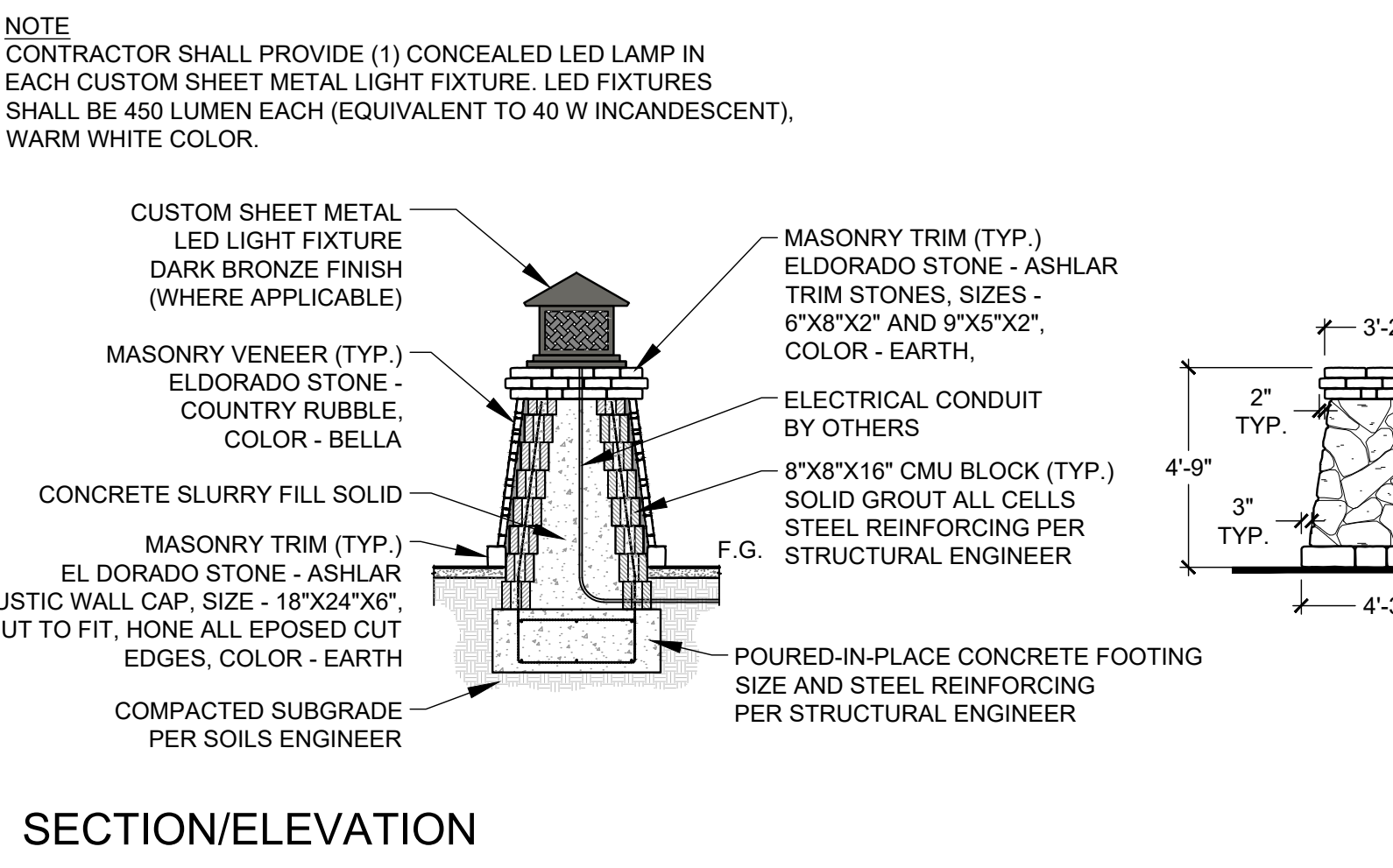


E BOULDERS

F DECORATIVE TREE GRATE

G CONCRETE TRIPLE RAIL FENCING

H LOW STONE VENEER WALL WITH MASONRY CAP



I SMALL STONE VENEER PILLASTER W/ CUSTOM LIGHT FIXTURE

95% SUBMITTAL

1		35%PS&E		08/04/15
2		65%PS&E		04/21/16
3		95%PS&E		05/03/17
4		95%PS&E		10/25/17
REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

APPROVED BY:

Kimley»Horn

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660 South Figueroa Street, Suite 2050, Los Angeles, CA 90017
Tel (213) 261-4040

ROBERT BOMBARDIER RLA 2464

xx/xx/xx DATE

REVIEWED BY:

CHARMAINE YAMBAO 8/4/15 DATE
ASSOCIATE CIVIL ENGINEER

APPROVED BY:

RAMIRO ADEVA 8/4/15 DATE
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER

CITY OF AGOURA HILLS

PREPARED BY:

L. Newman Design Group, Inc.

Landscaping Architecture
Planning
Horticulture
Biological Restoration

31300 Via Colinas Suite 104 Westlake Village, CA 91362-3924
Phone: (818) 991-5056 Fax: (818) 991-3478
E-mail: indg@indg.net Website: www.indg.net

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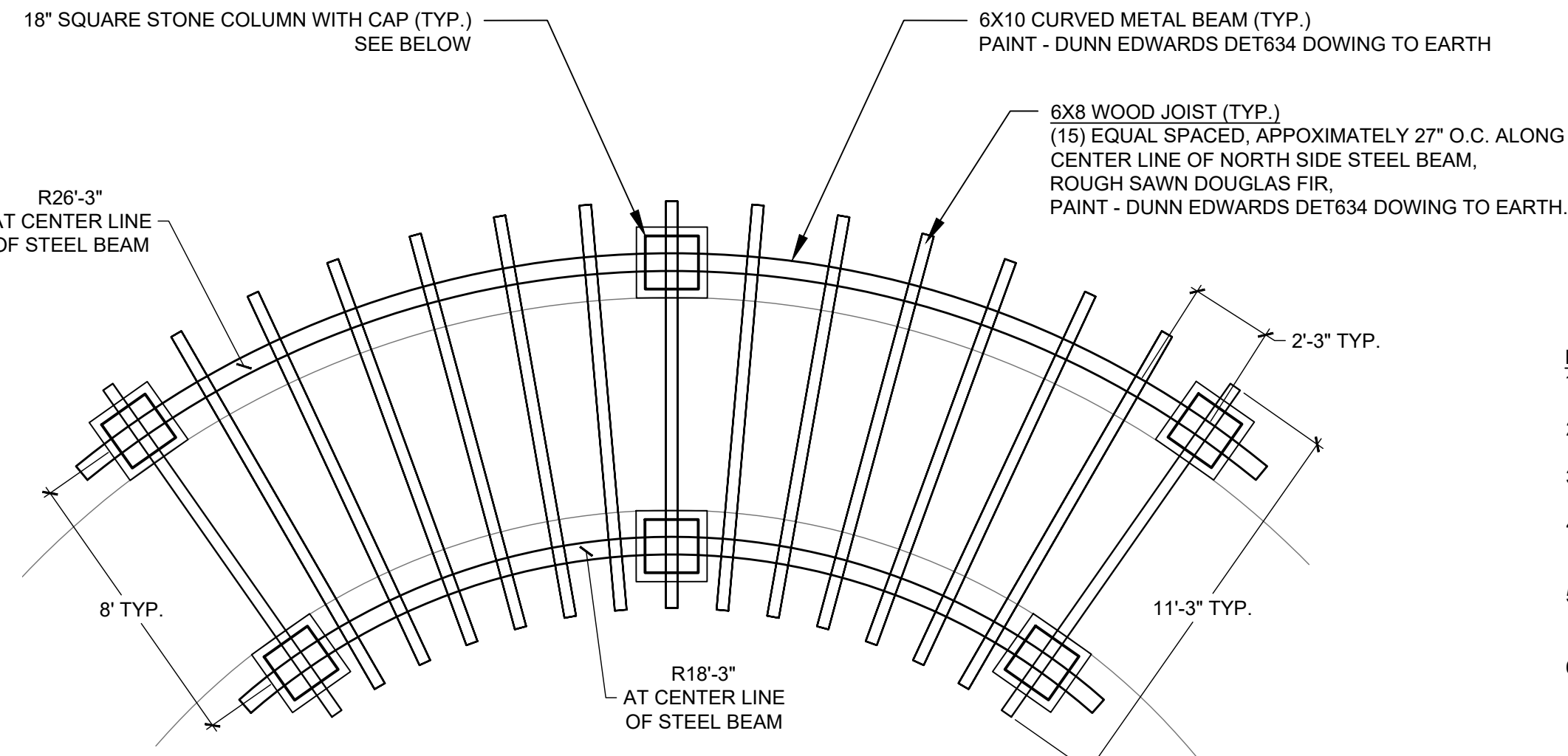
KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS

CONSTRUCTION DETAILS CD-1

DESIGNED BY: BB
DRAWN BY: RK
CHECKED BY: XX

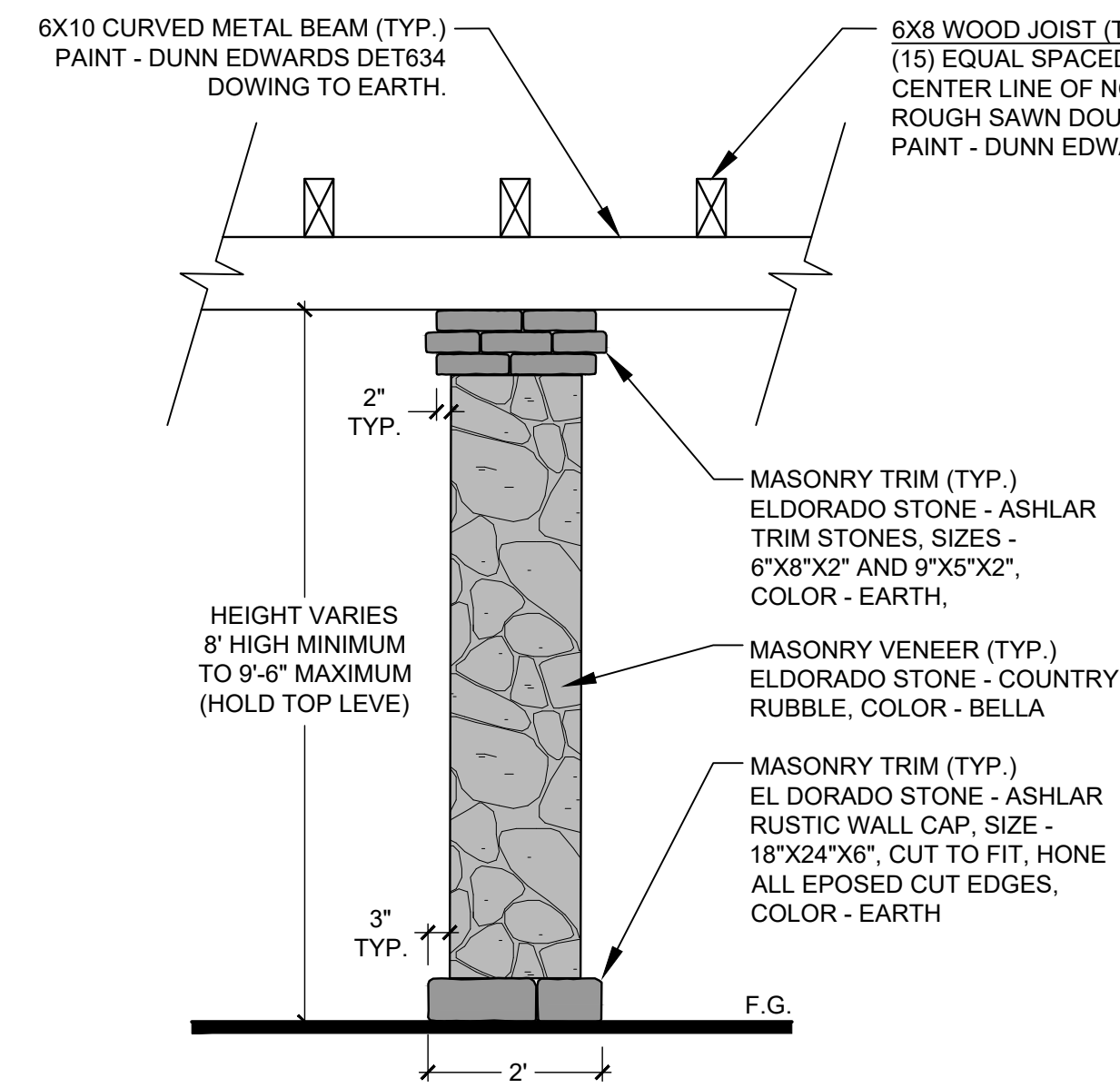
KHA JOB NUMBER: 099083026

SHEET 38 OF 42

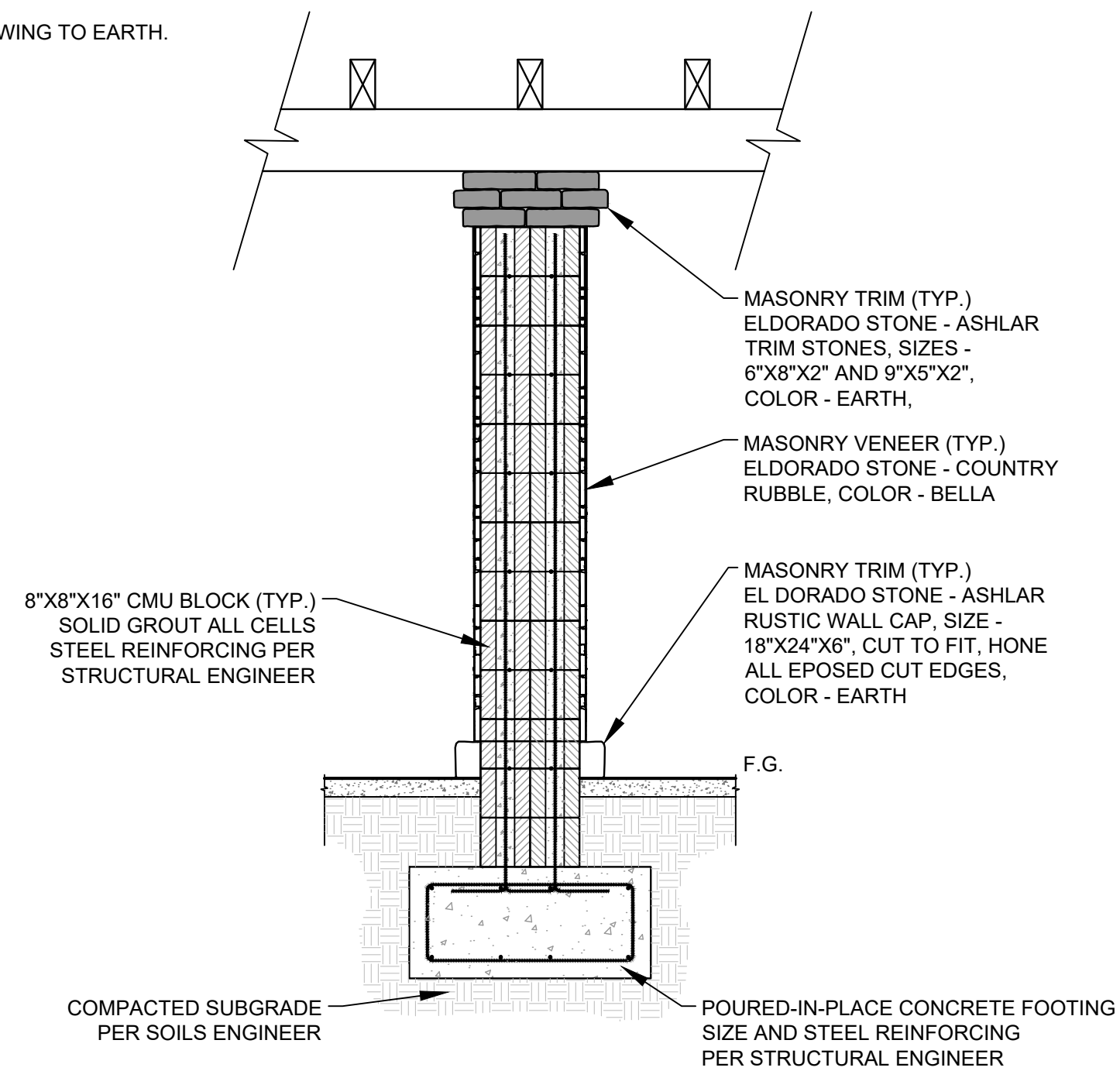


PLAN SCALE: 1/4"=1'-0"

- NOTES
1. CONTRACTOR TO PROVIDE ELECTRICAL CONDUIT FOR LIGHTING TOP OF PILASTERS.
 2. ALL CONNECTIONS OF STEEL AND WOOD TRELLIS MEMBERS PER STRUCTURAL ENGINEER.
 3. PILASTER REINFORCING AND POURED-IN-PLACE CONCRETE FOOTING PER STRUCTURAL ENGINEER.
 4. ALL WOOD TRELLIS MEMBERS TO BE PRIMED AND PAINTED - DUNN EDWARDS DET634 DOWING TO EARTH.
 5. ALL STEEL TRELLIS MEMBERS SHALL BE PRIMED AND PAINTED - DUNN EDWARDS DET634 DOWING TO EARTH.
 6. ALL STEEL CONNECTORS TO BE HEAVY DUTY HAMMERED FINISH.



ELEVATION SCALE: 1/2"=1'-0"



SECTION SCALE: 1/2"=1'-0"

A OVERHEAD TRELLIS W/ STONE COLUMNS

95% SUBMITTAL

1		35%PS&E		08/04/15
2		65%PS&E		04/21/16
3		95%PS&E		05/03/17
4		95%PS&E		10/25/17
REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

APPROVED BY:

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ROBERT BOMBARDIER RLA 2464 xx/xx/xx DATE

REVIEWED BY:

CHARMAINE YAMBABO 8/4/15 DATE
ASSOCIATE CIVIL ENGINEER

APPROVED BY:

RAMIRO ADEVA 8/4/15 DATE
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER



PREPARED BY:

L. Newman Design Group, Inc.

- Landscape Architecture
- Planning
- Horticulture
- Biological Restoration

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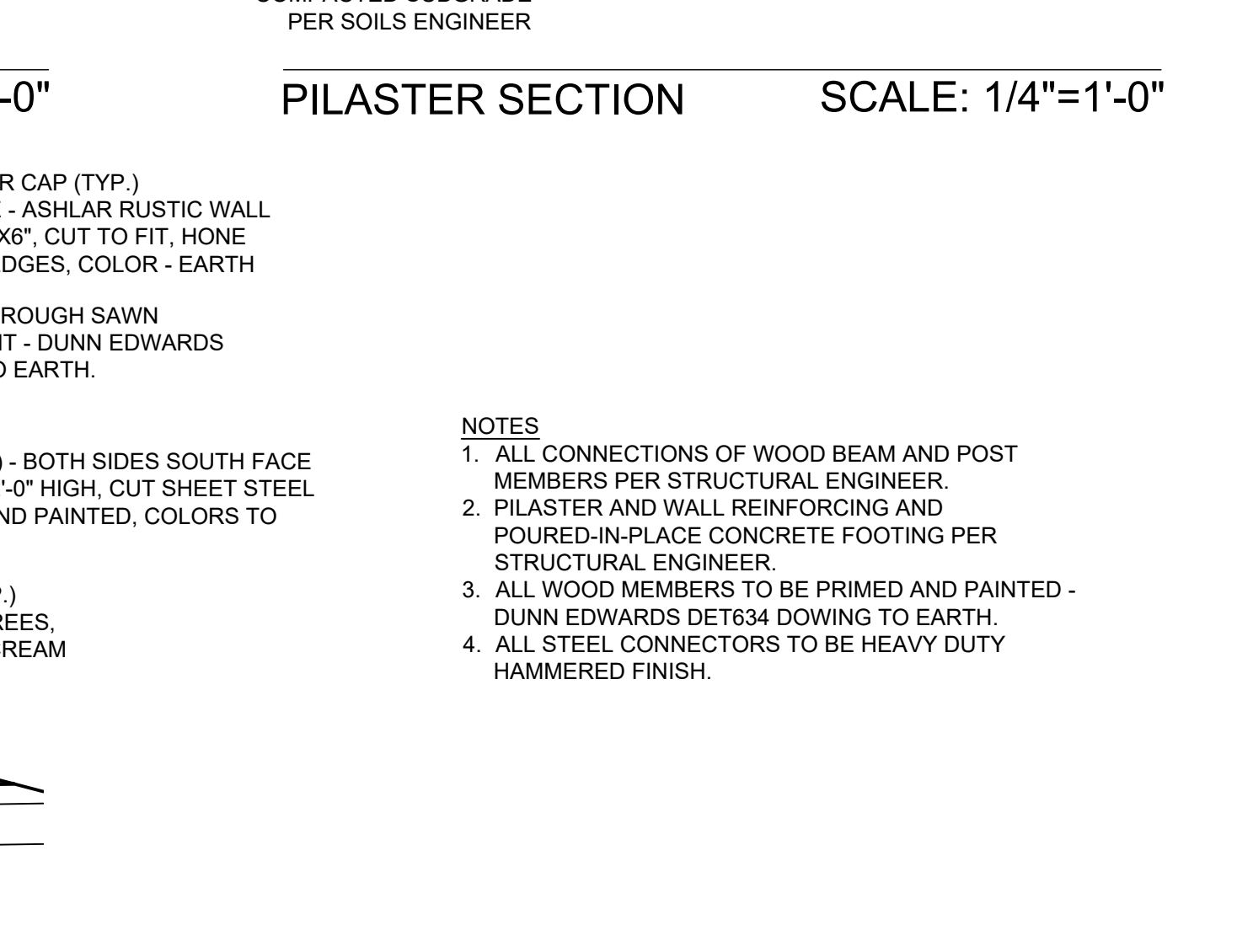
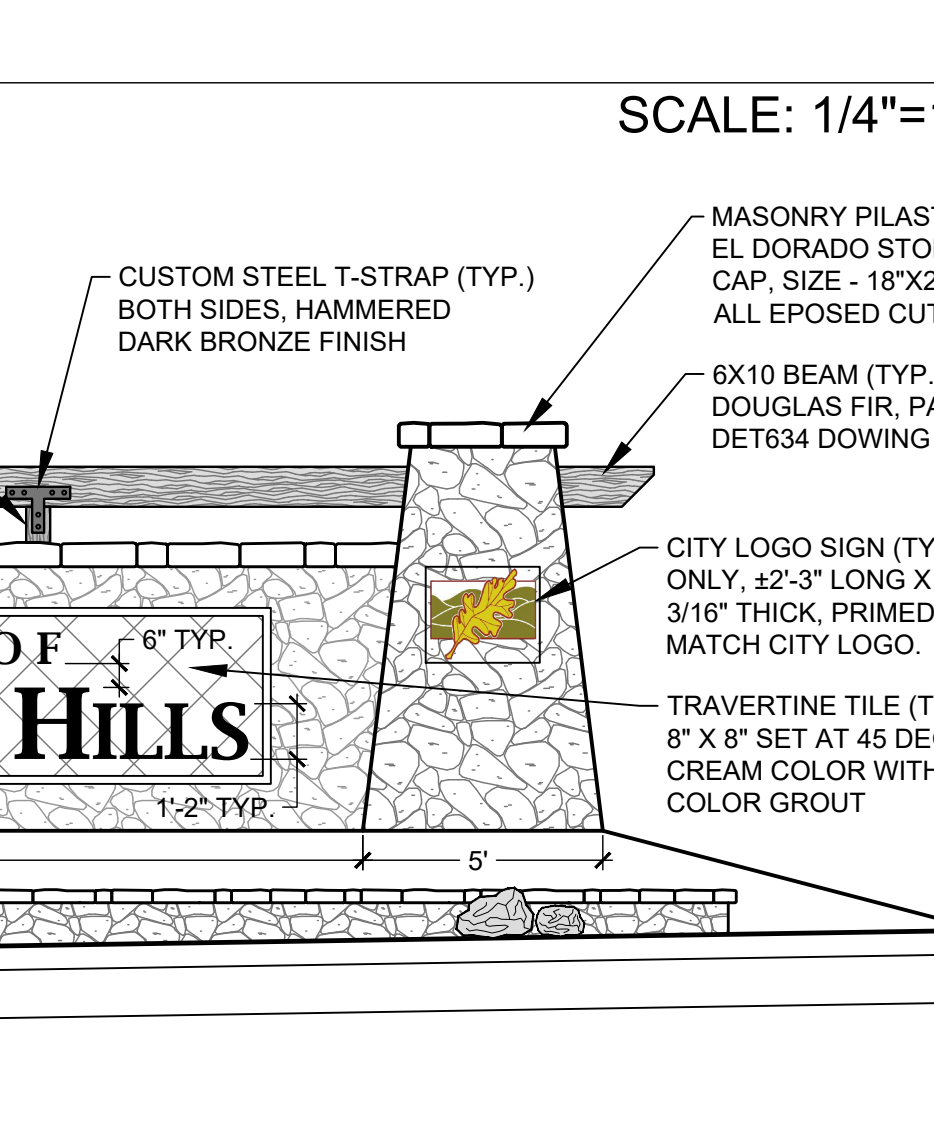
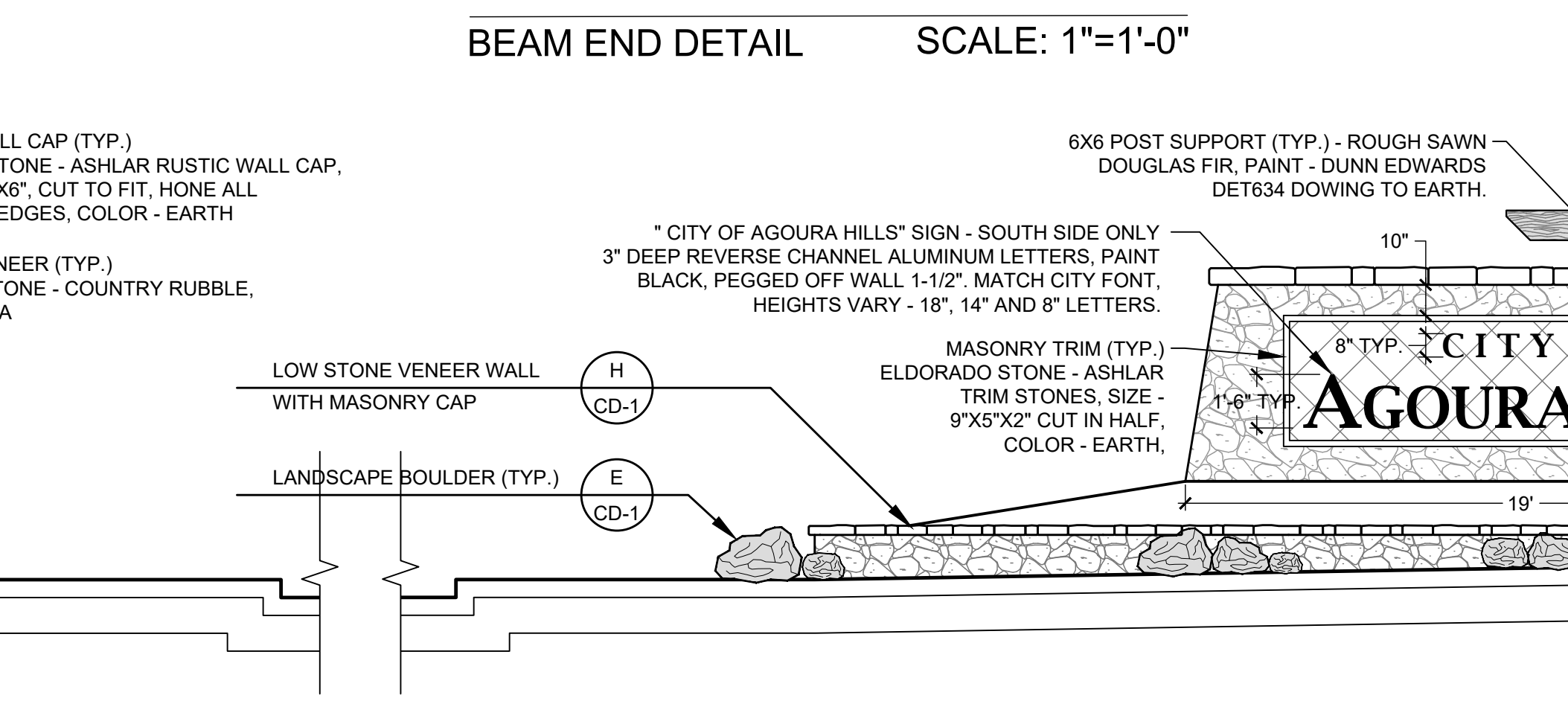
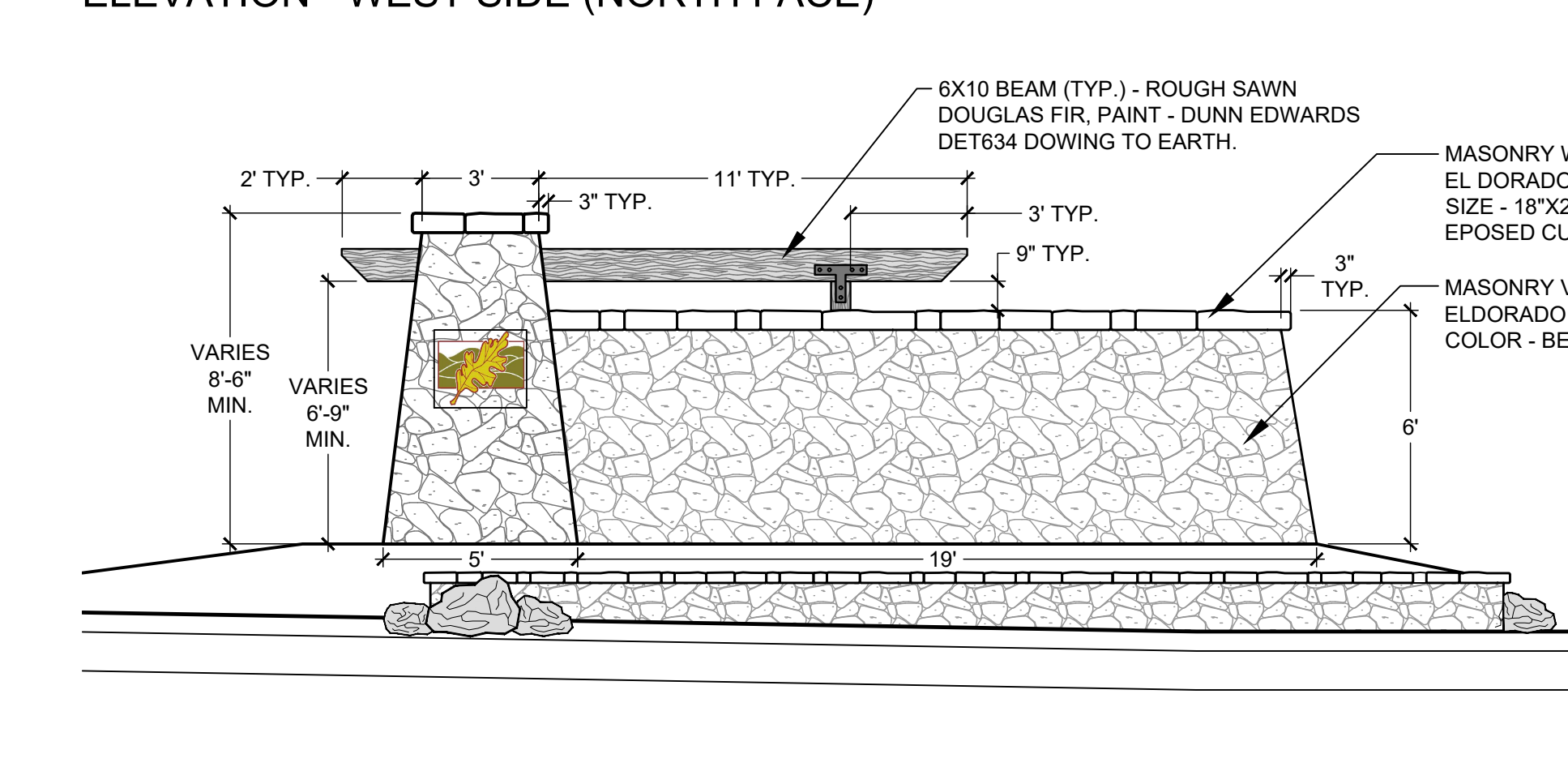
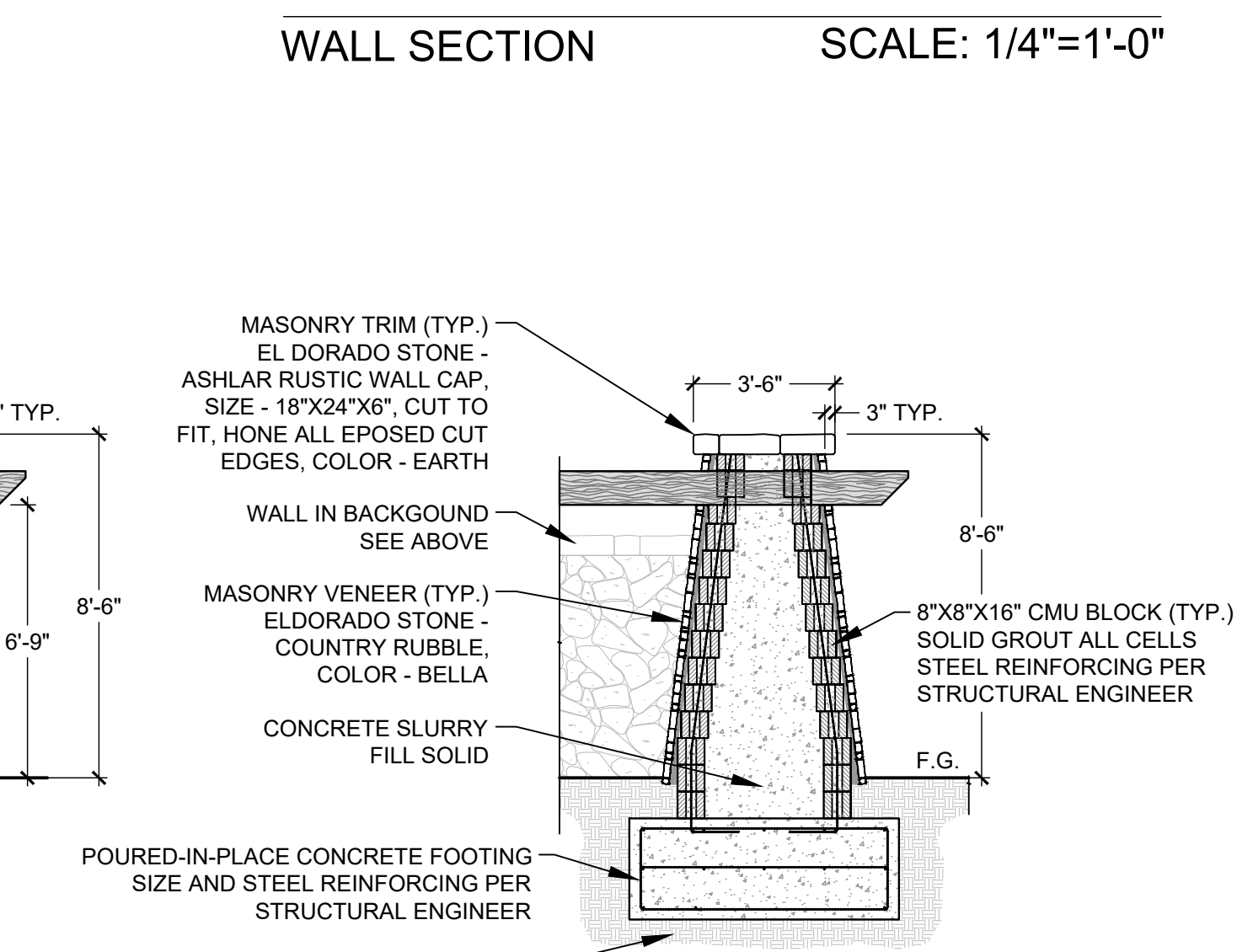
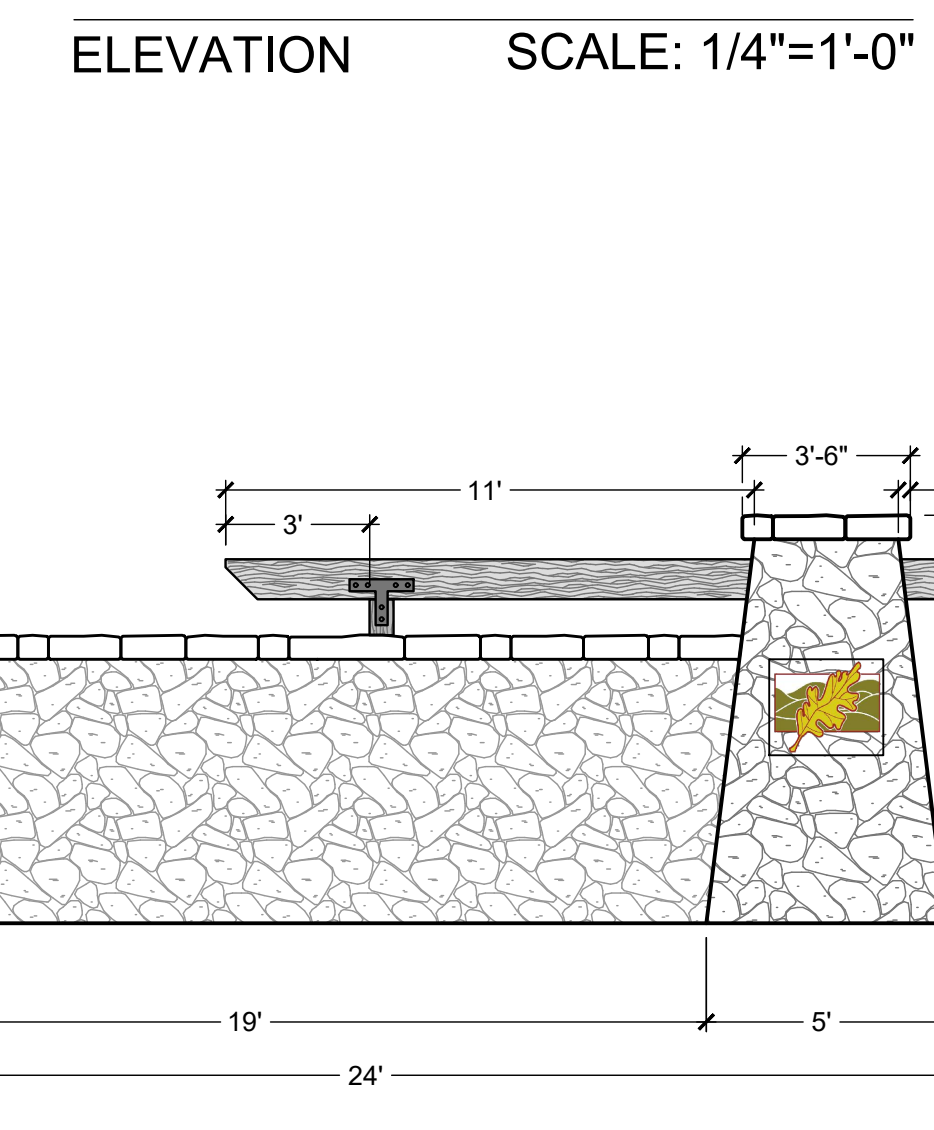
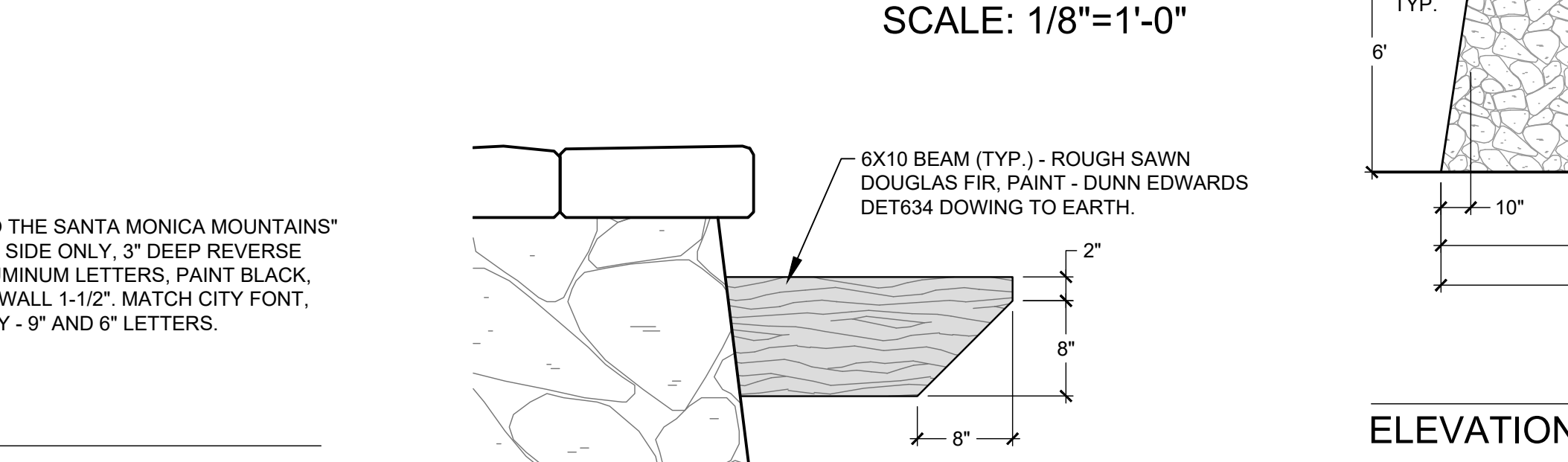
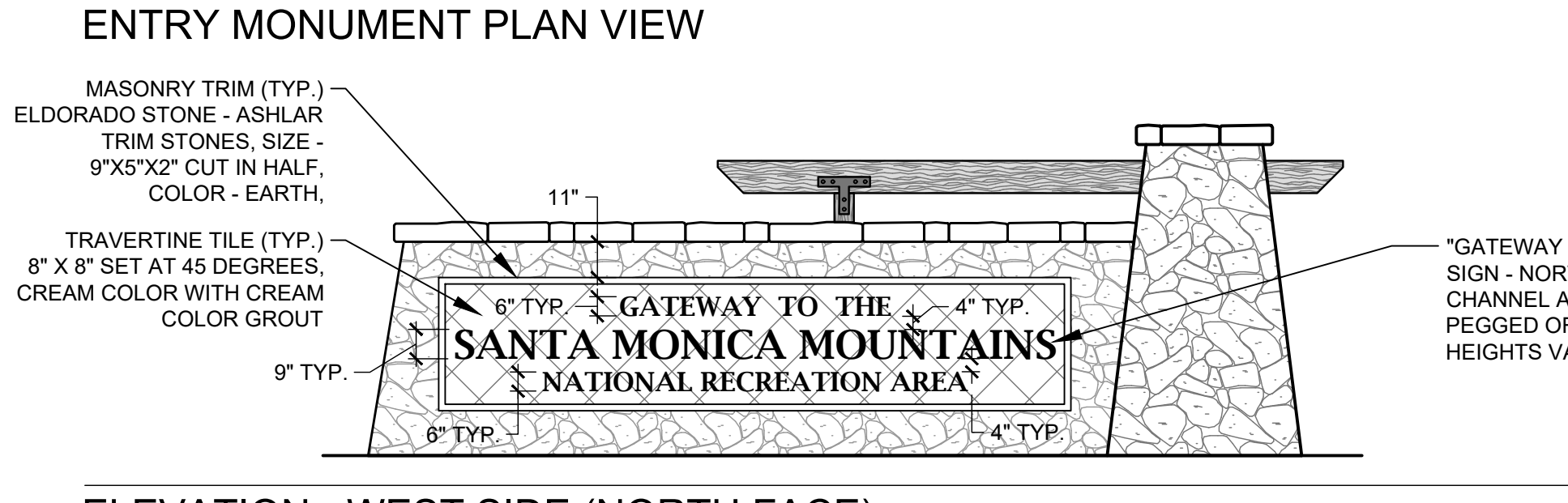
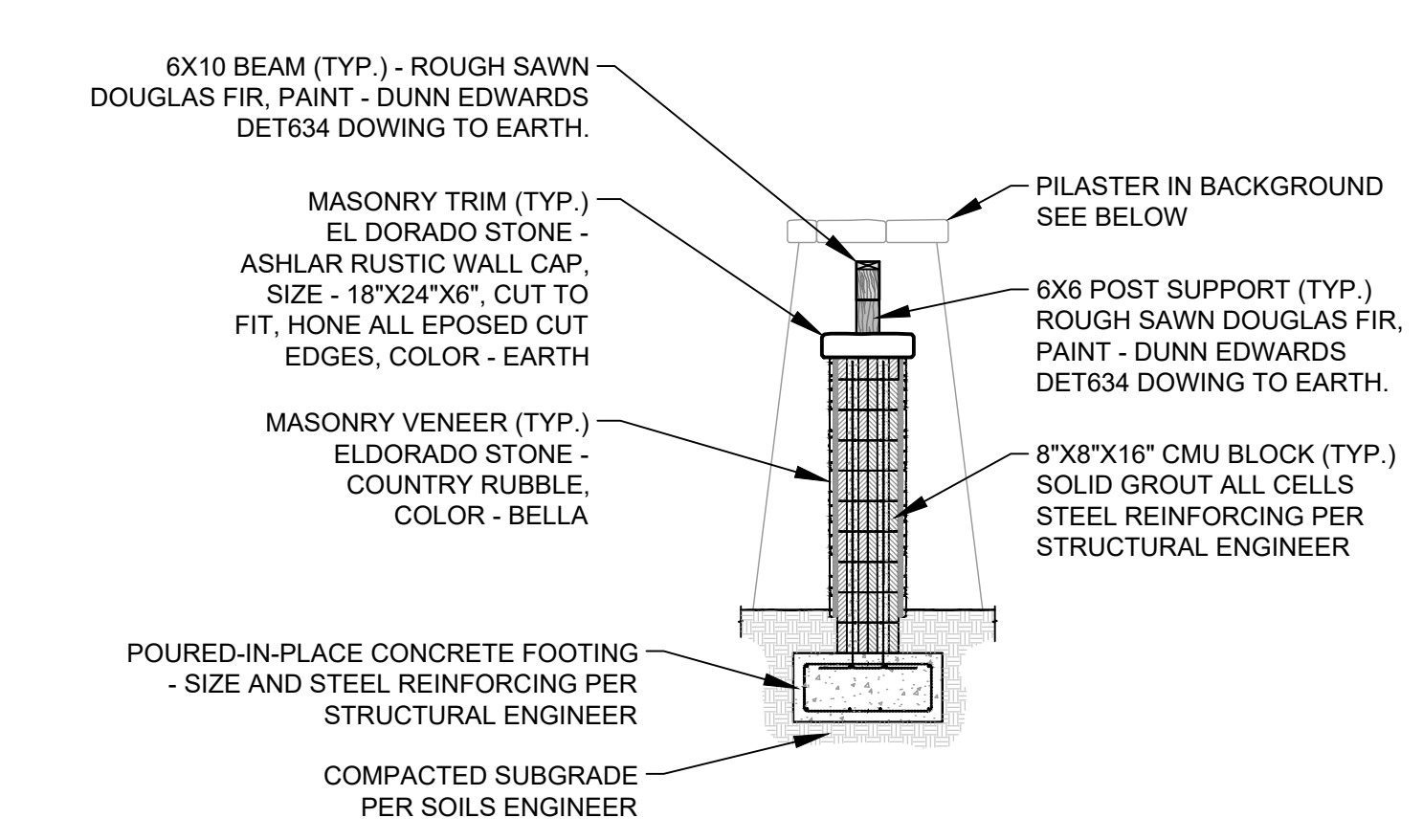
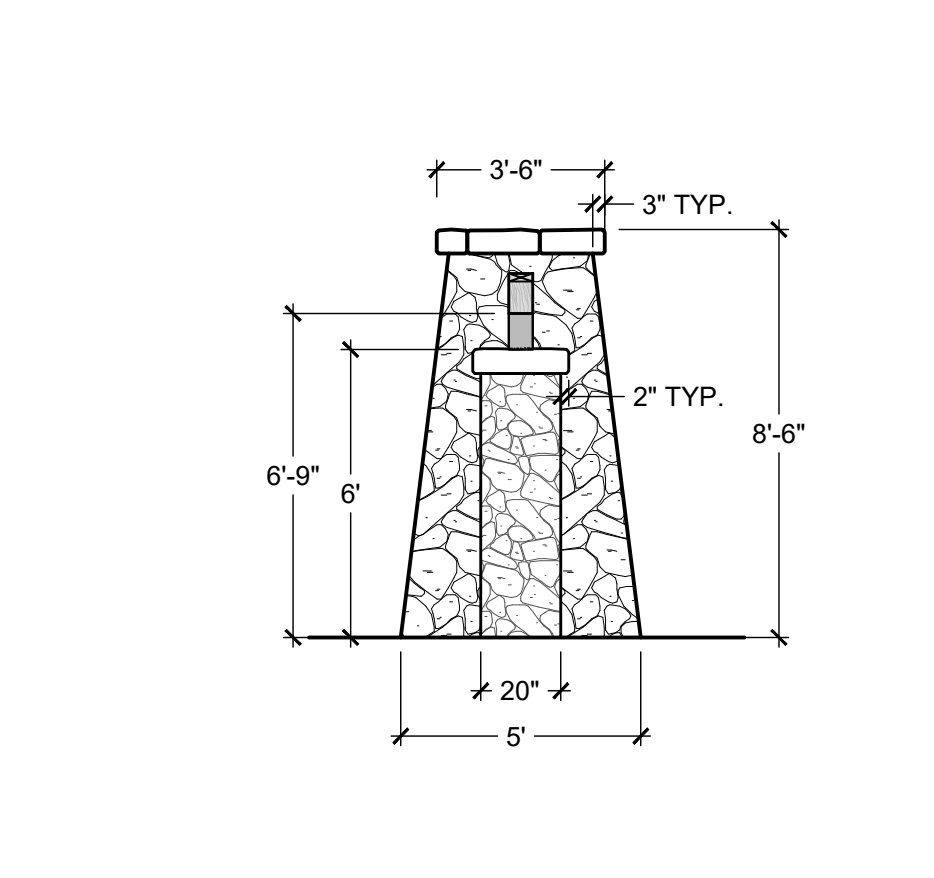
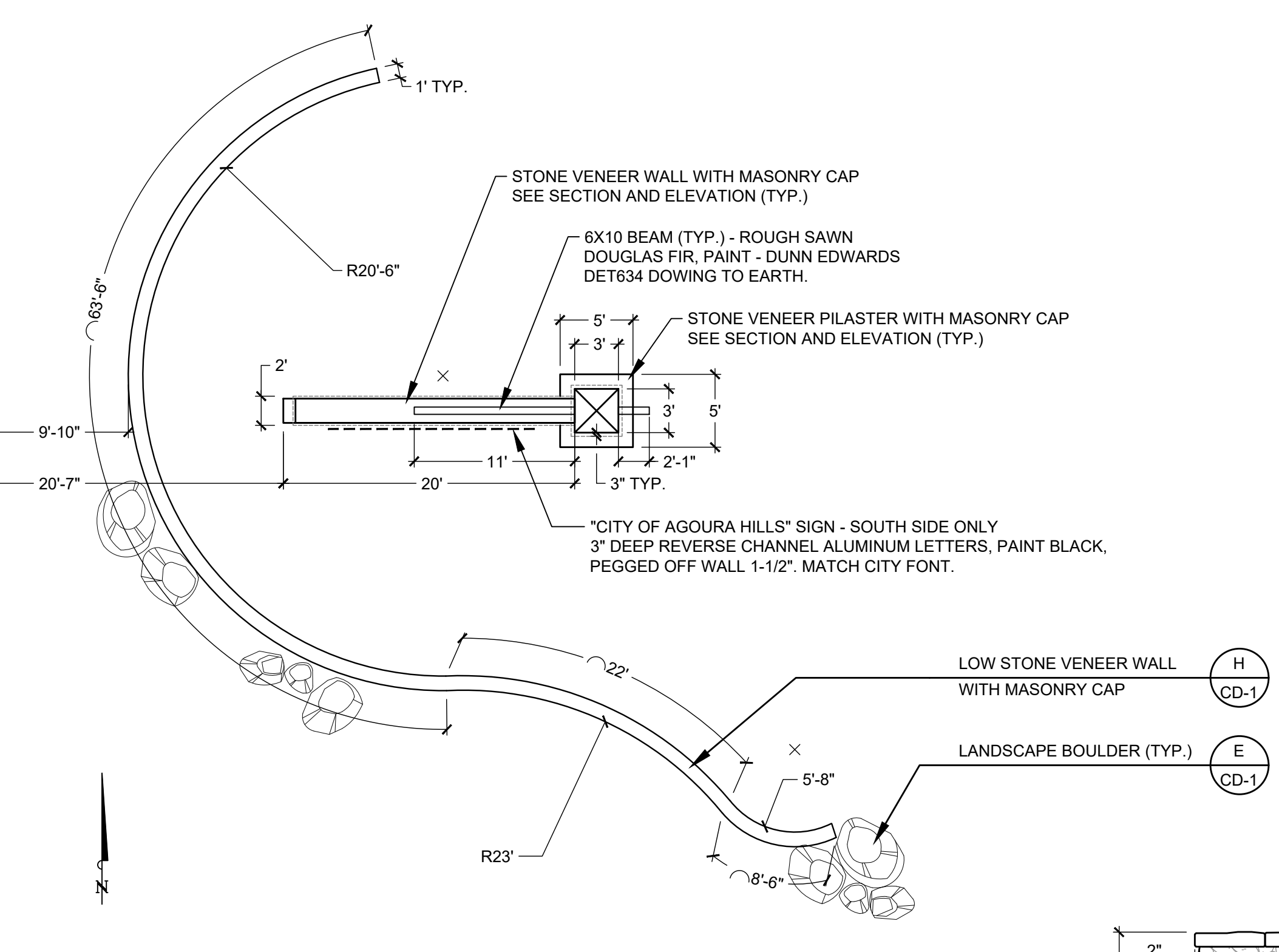
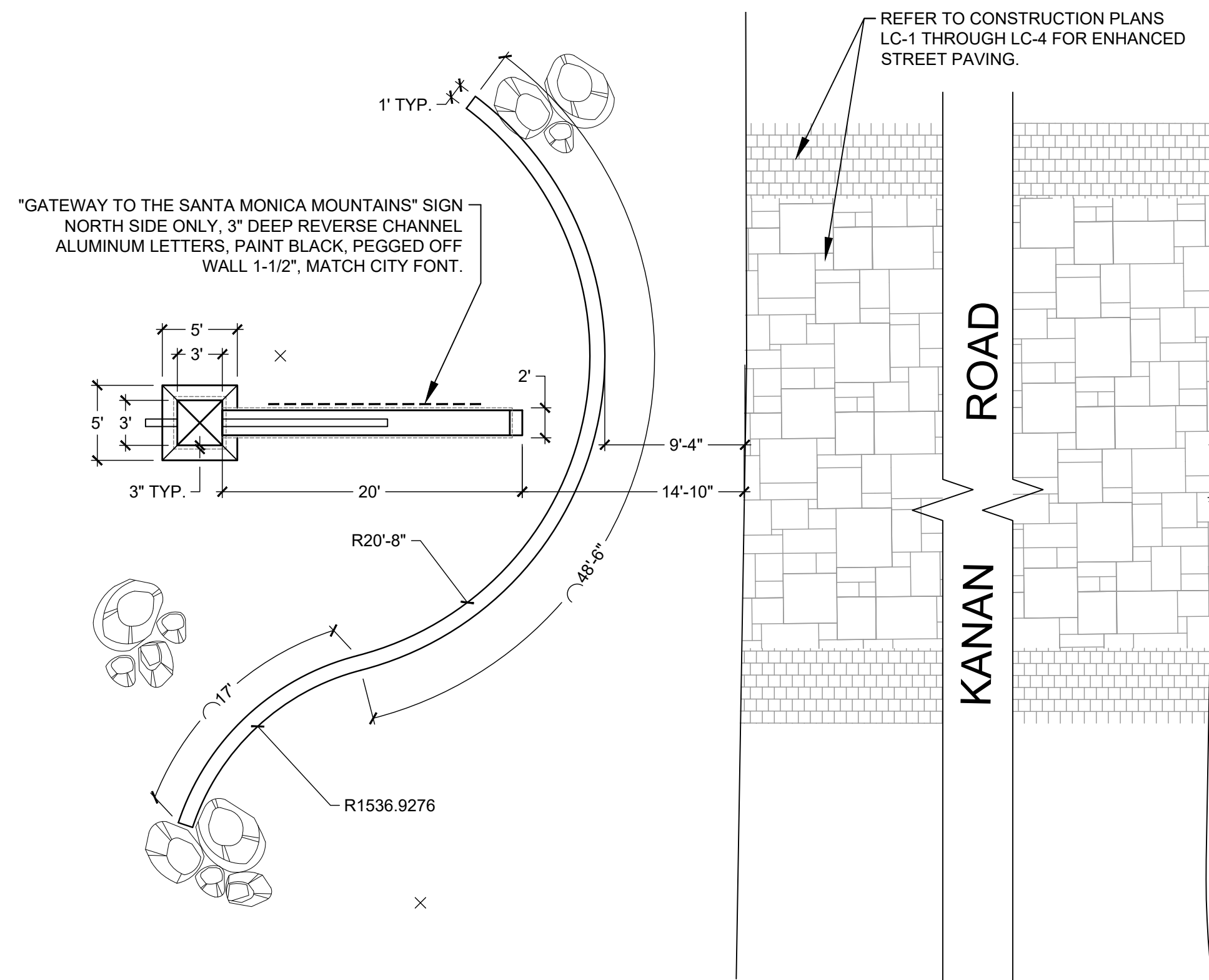
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KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS

CONSTRUCTION DETAILS CD-2

DESIGNED BY: BB DRAWN BY: RK CHECKED BY: XX KHA JOB NUMBER: 099083026

SHEET 39 OF 42



- NOTES
1. ALL CONNECTIONS OF WOOD BEAM AND POST MEMBERS PER STRUCTURAL ENGINEER.
 2. PLASTER AND WALL REINFORCING AND POURED-IN-PLACE CONCRETE FOOTING PER STRUCTURAL ENGINEER.
 3. ALL WOOD MEMBERS TO BE PRIMED AND PAINTED - DUNN EDWARDS DET634 DOWING TO EARTH.
 4. ALL STEEL CONNECTORS TO BE HEAVY DUTY HAMMERED FINISH.

A ENTRY MONUMENT STRUCTURE

95% SUBMITTAL

REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE
1		35%PS&E		08/04/15
2		65%PS&E		04/21/16
3		95%PS&E		05/03/17
4		95%PS&E		10/25/17

APPROVED BY:

Kimley»Horn

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Tel (213) 261-4040

ROBERT BOMBARDIER RLA 2464

REVIEWED BY:

CHARMAINE YAMBABO 8/4/15
ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA 8/4/15
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE



PREPARED BY:

L. Newman Design Group, Inc.

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Phone: (818) 991-5056 Fax: (818) 991-3478
E-mail: indg@indg.net Website: www.indg.net

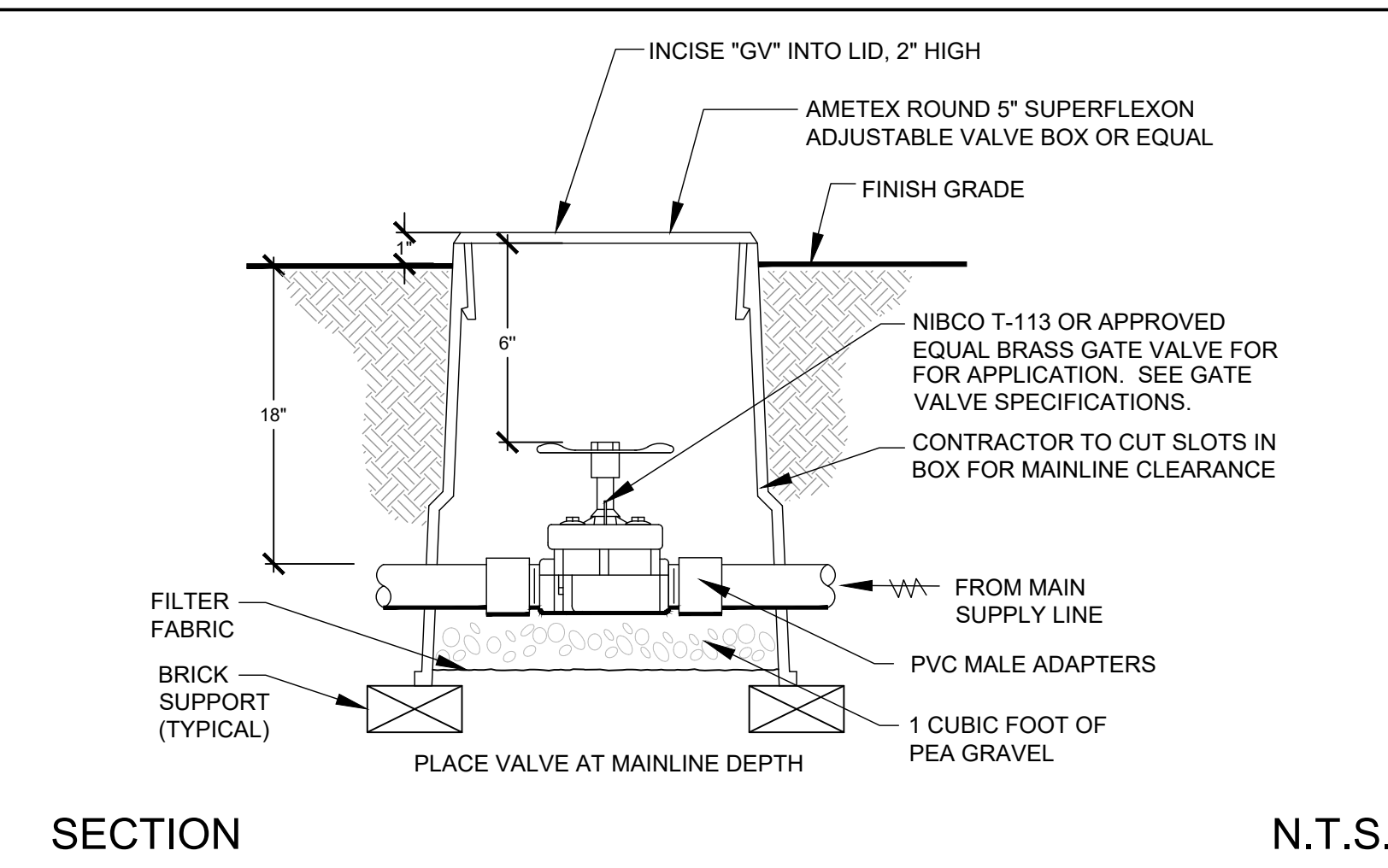
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KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS

CONSTRUCTION DETAILS CD-3

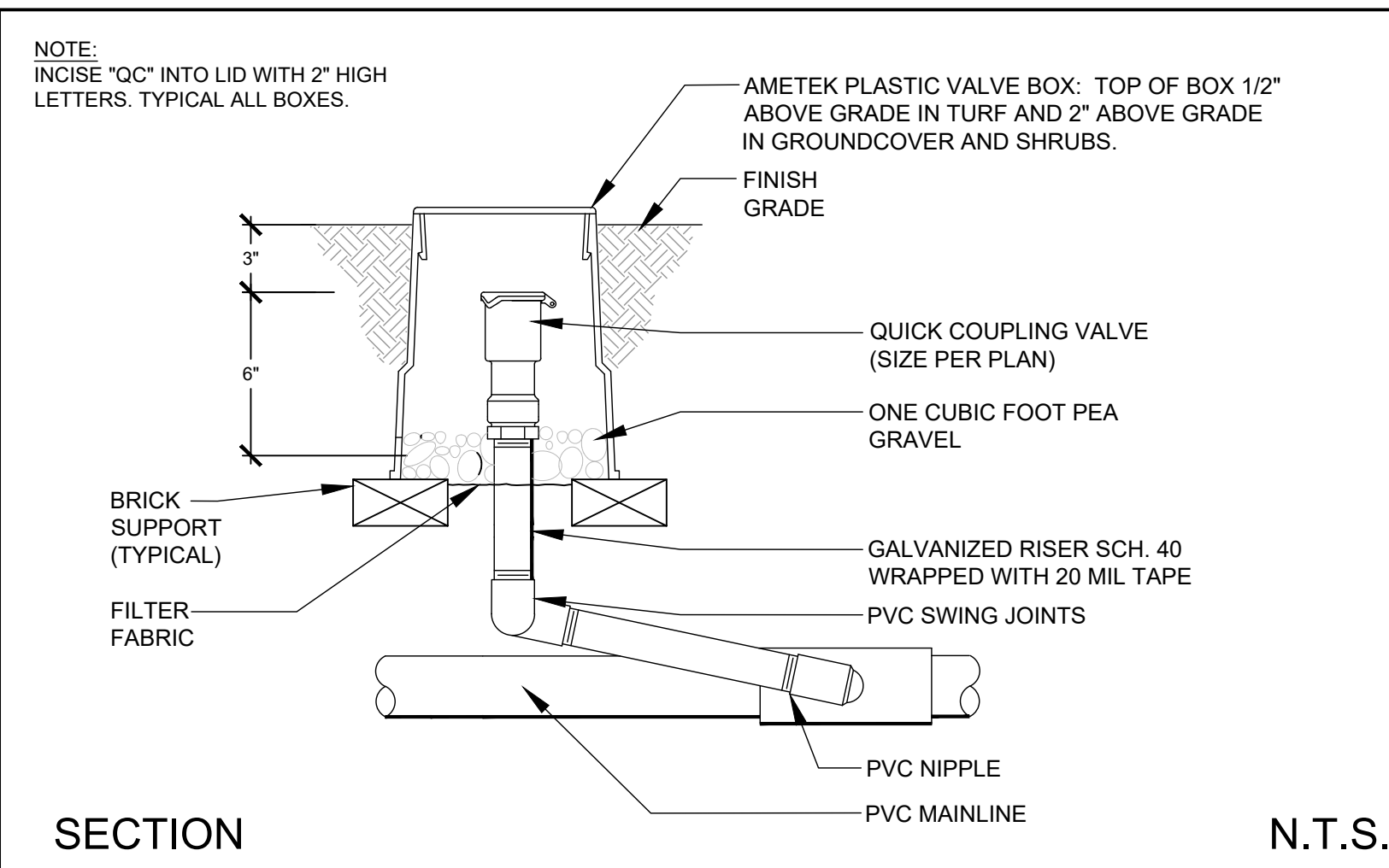
DESIGNED BY: BB
DRAWN BY: RK
CHECKED BY: XX
KHA JOB NUMBER: 099083026

SHEET 40 OF 42



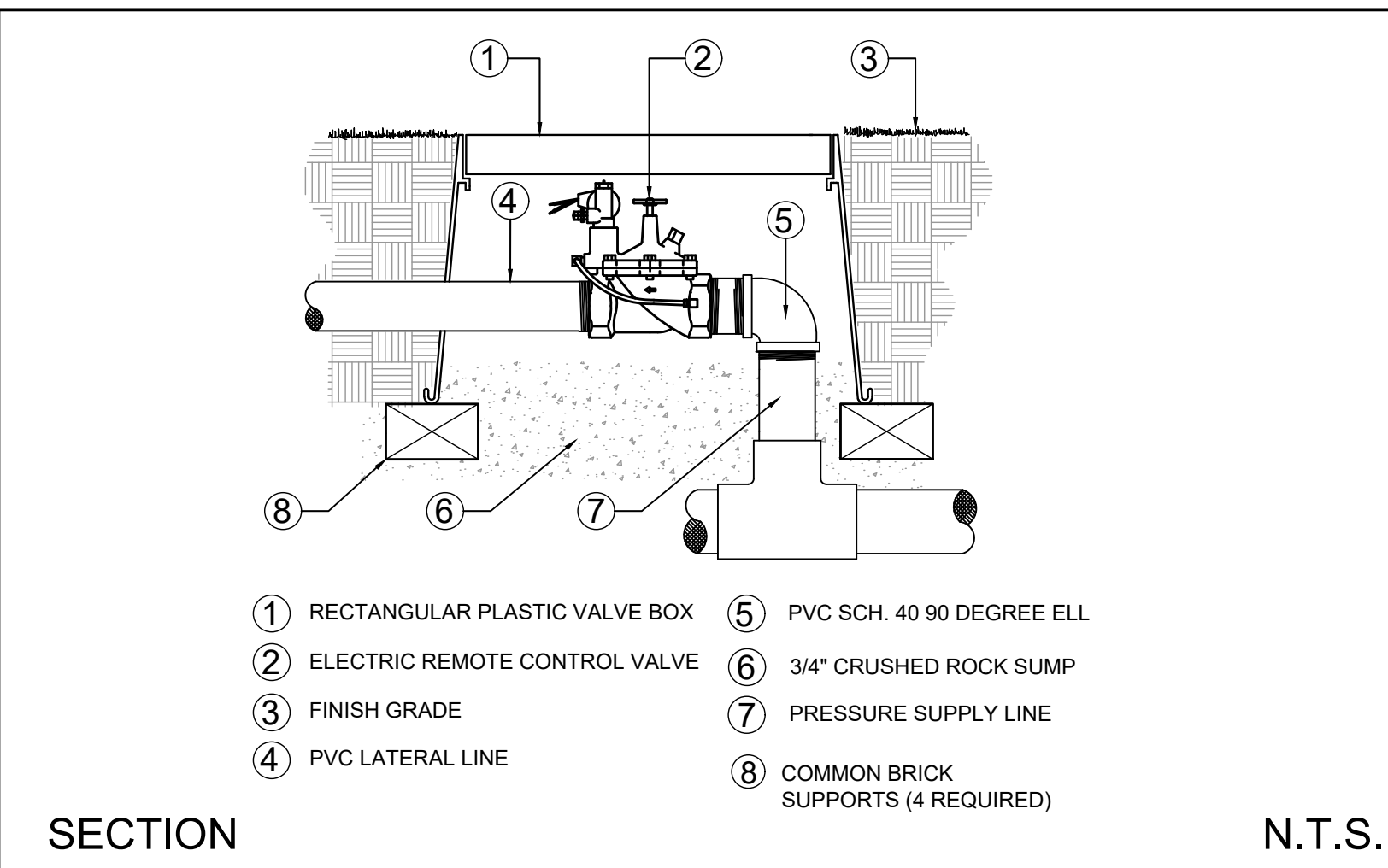
SECTION N.T.S.

A GATE VALVE



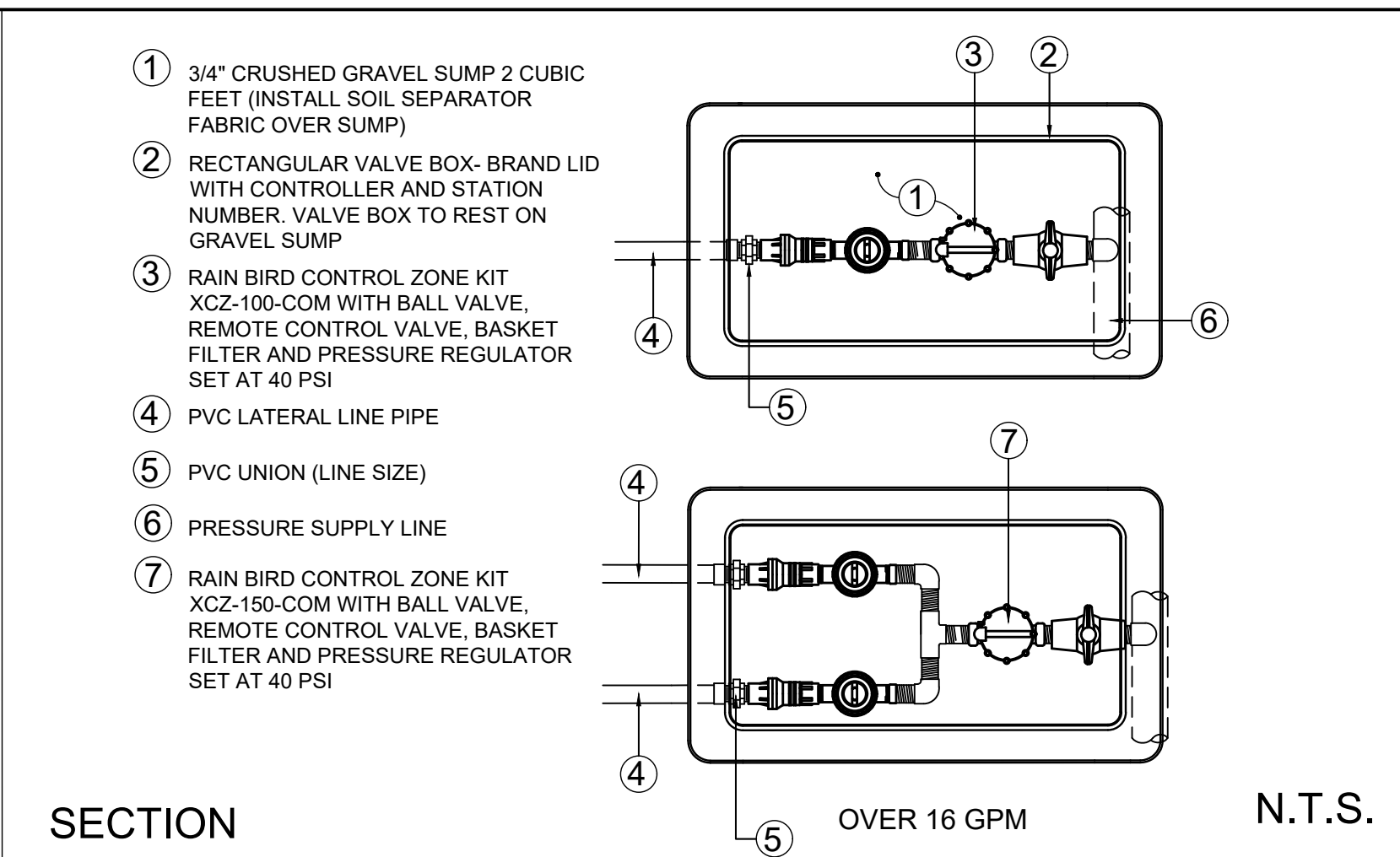
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B QUICK COUPLER VALVE



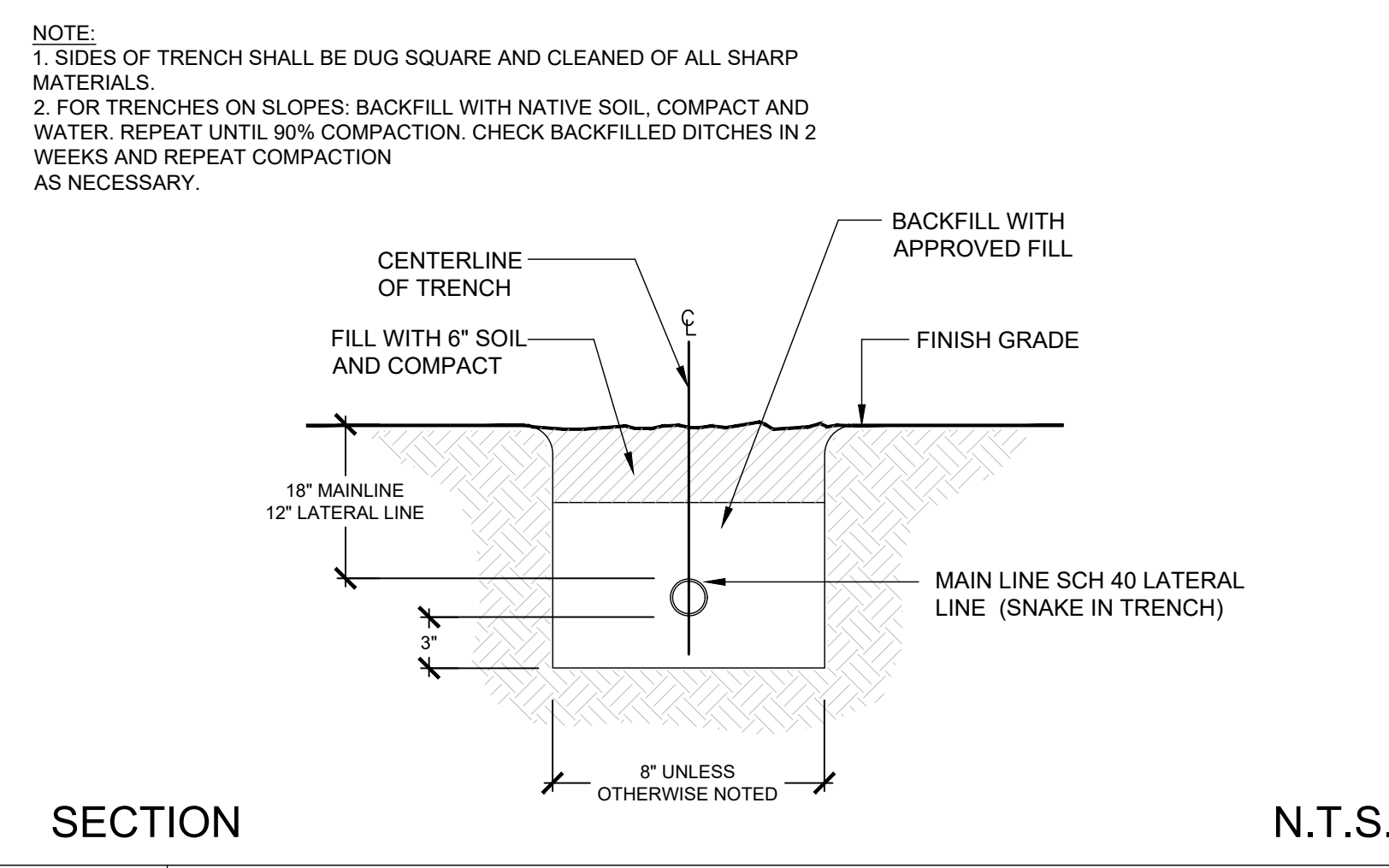
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C REMOTE VALVE



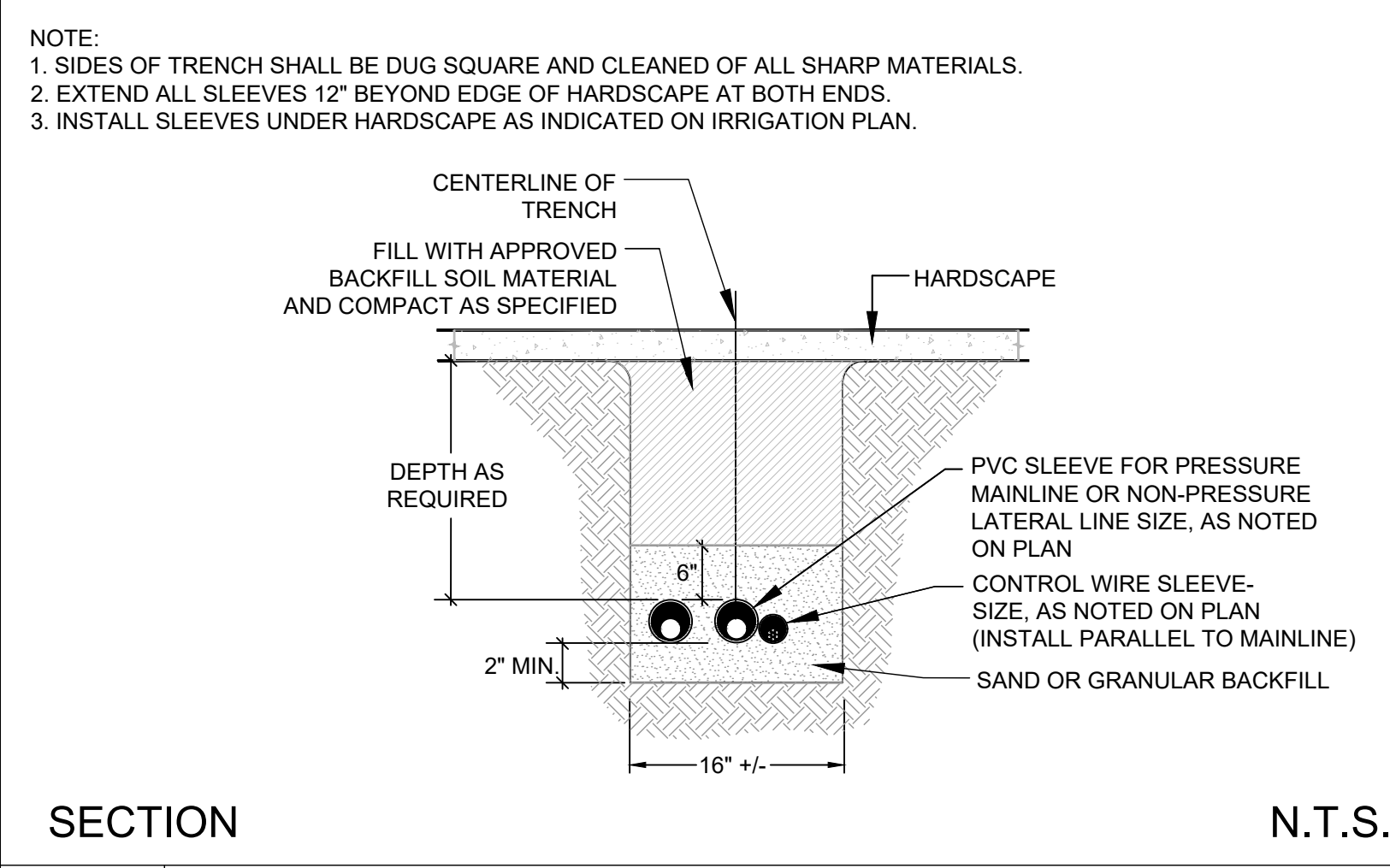
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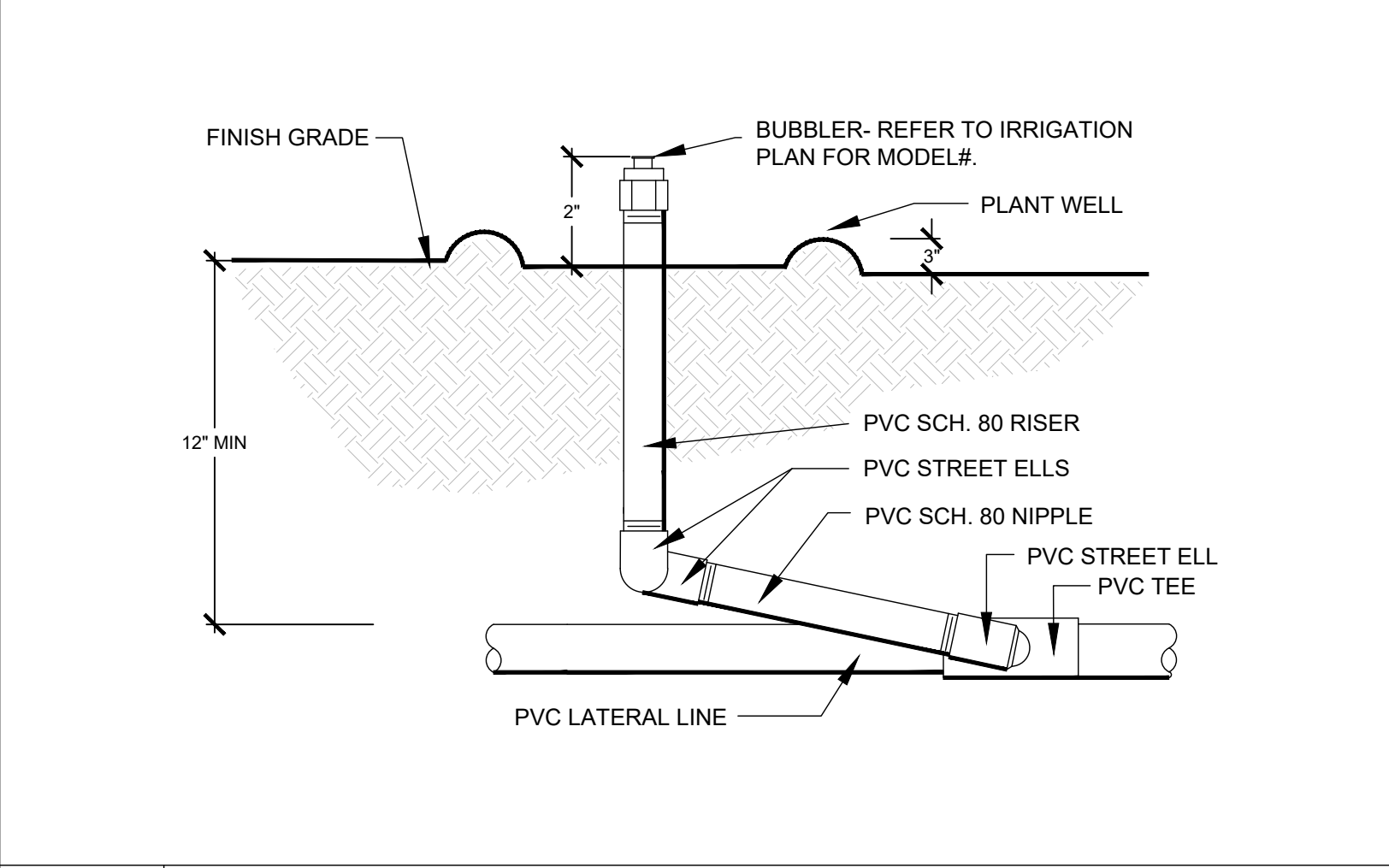
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E TRENCHING LATERAL / MAINLINE



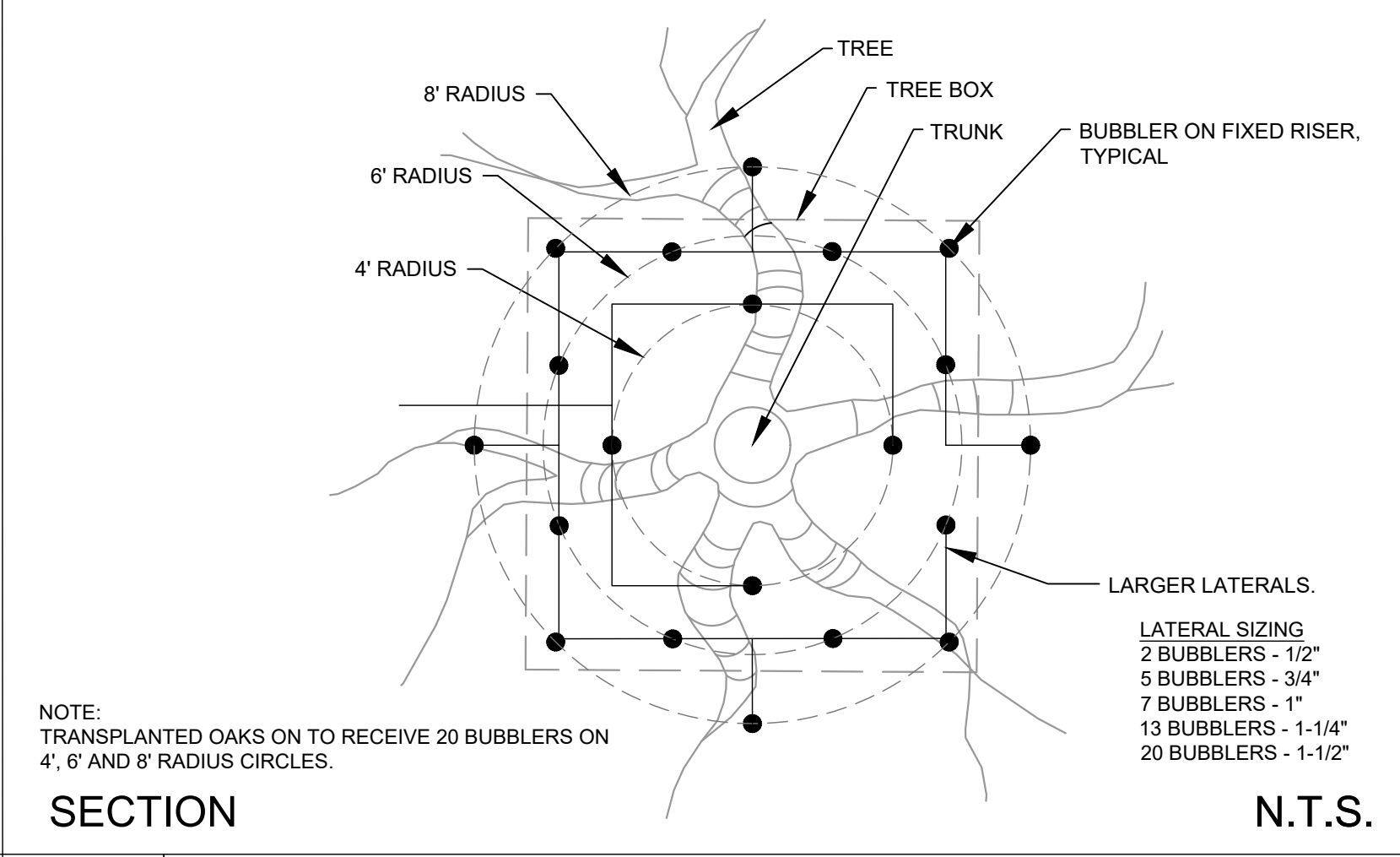
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F SLEEVING MAINLINE, LATERAL & ELECTRICAL



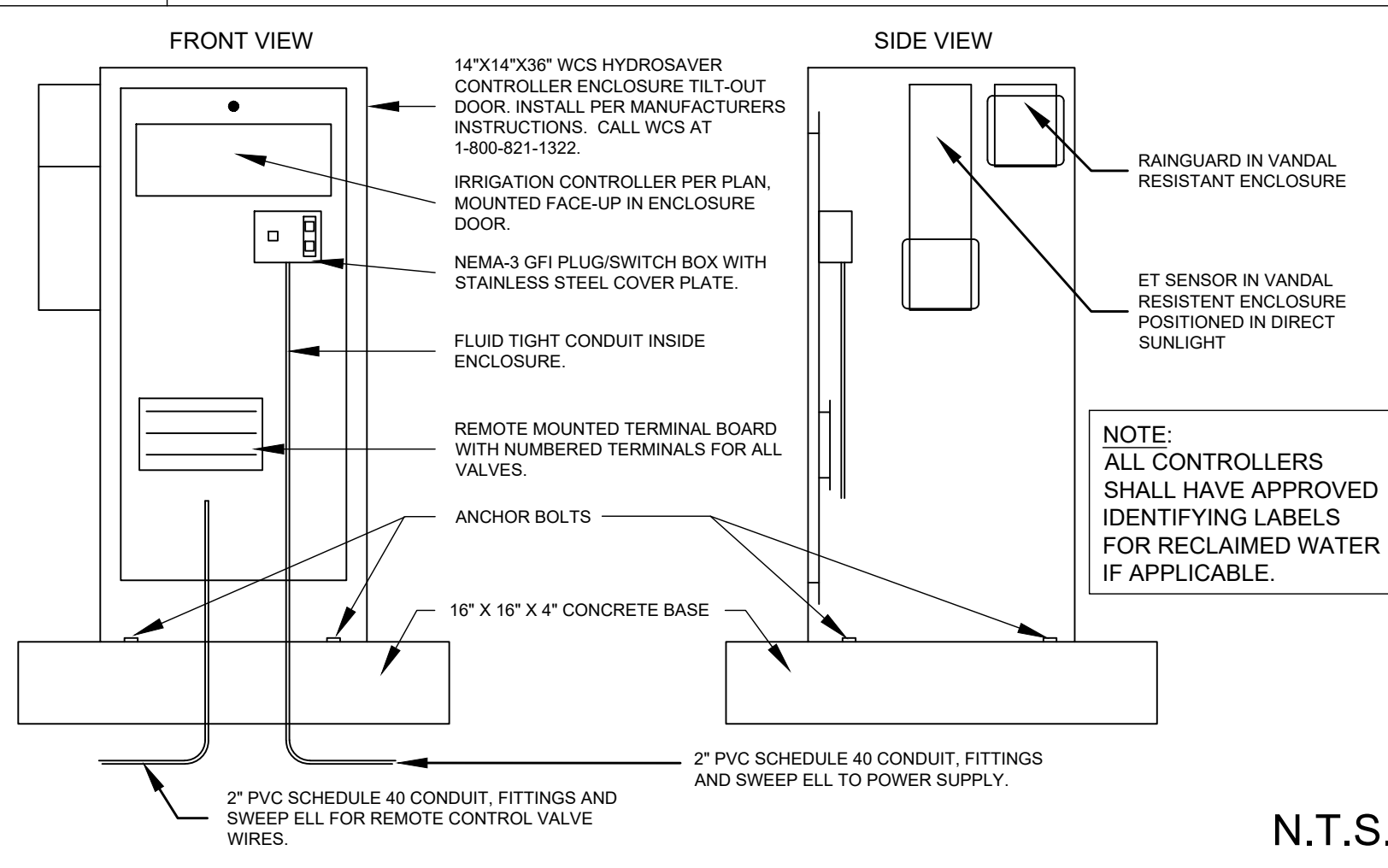
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G BUBBLER



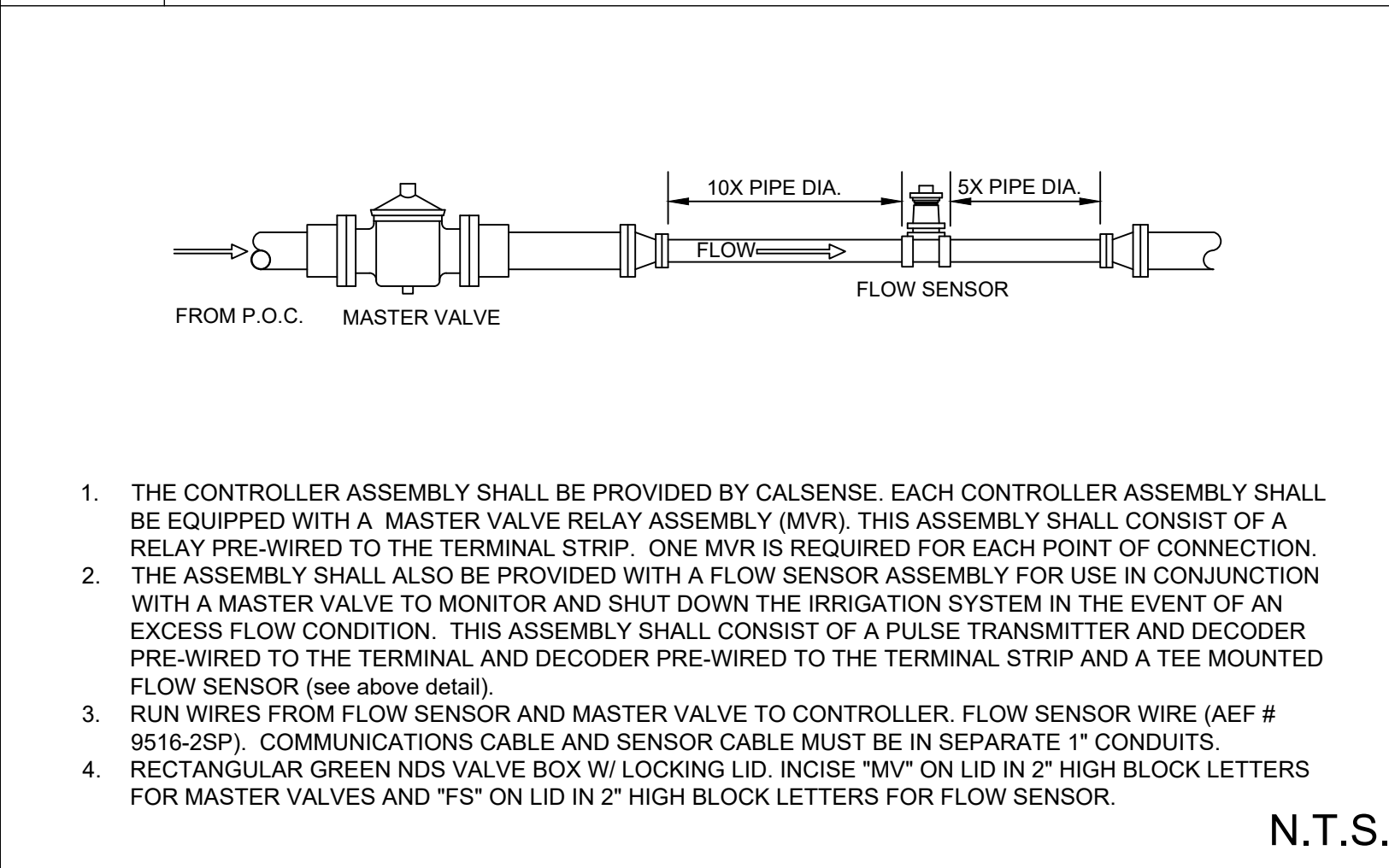
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H SPECIMEN TREE



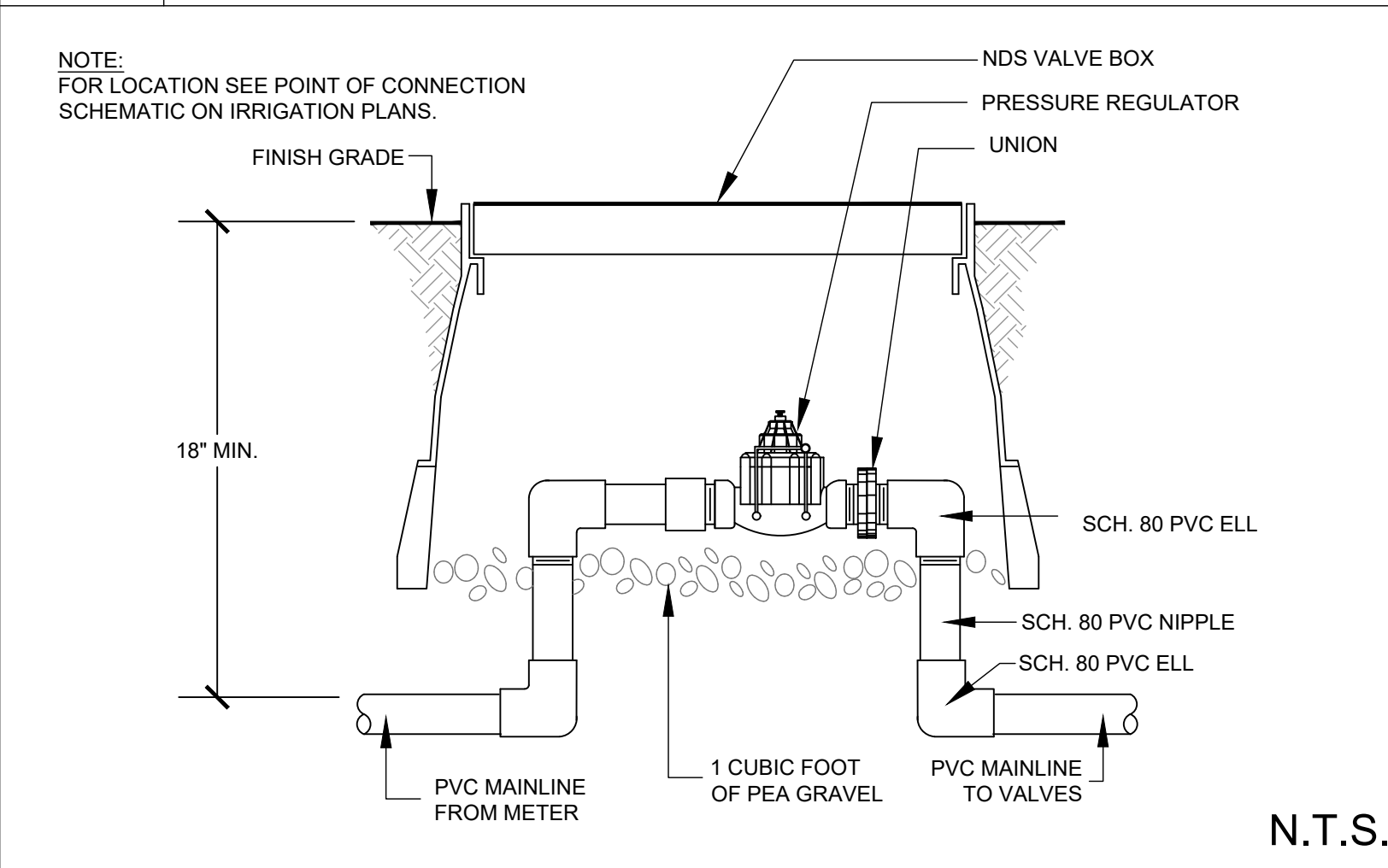
N.T.S.

I PEDESTAL CONTROLLER (CORNELL AND KANAN INTERSECTIONS)



N.T.S.

J MASTER VALVE AND FLOW SENSOR



N.T.S.

K PRESSURE REGULATOR

PREPARED BY:

L. Newman Design Group, Inc.

- Landscape Architecture
- Planning
- Horticulture
- Biological Restoration

31300 Via Colinas ■ Suite 104 ■ Westlake Village, CA 91362-3924
 Phone: (818) 991-5056 ■ Fax: (818) 991-3478
 E-mail: indg@indg.net ■ Website: www.indg.net

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95% SUBMITTAL

REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE
1		35%PS&E		08/04/15
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3		95%PS&E		05/03/17
4		95%PS&E		10/25/17

APPROVED BY:

Kimley»Horn

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 660 South Figueroa Street, Suite 2050, Los Angeles, CA 90017
 Tel (213) 261-4040

ROBERT BOMBARDIER RLA 2464 xx/xx/xx DATE

REVIEWED BY:

CHARMAINE YAMBAO 8/4/15
 ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA 8/4/15
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE

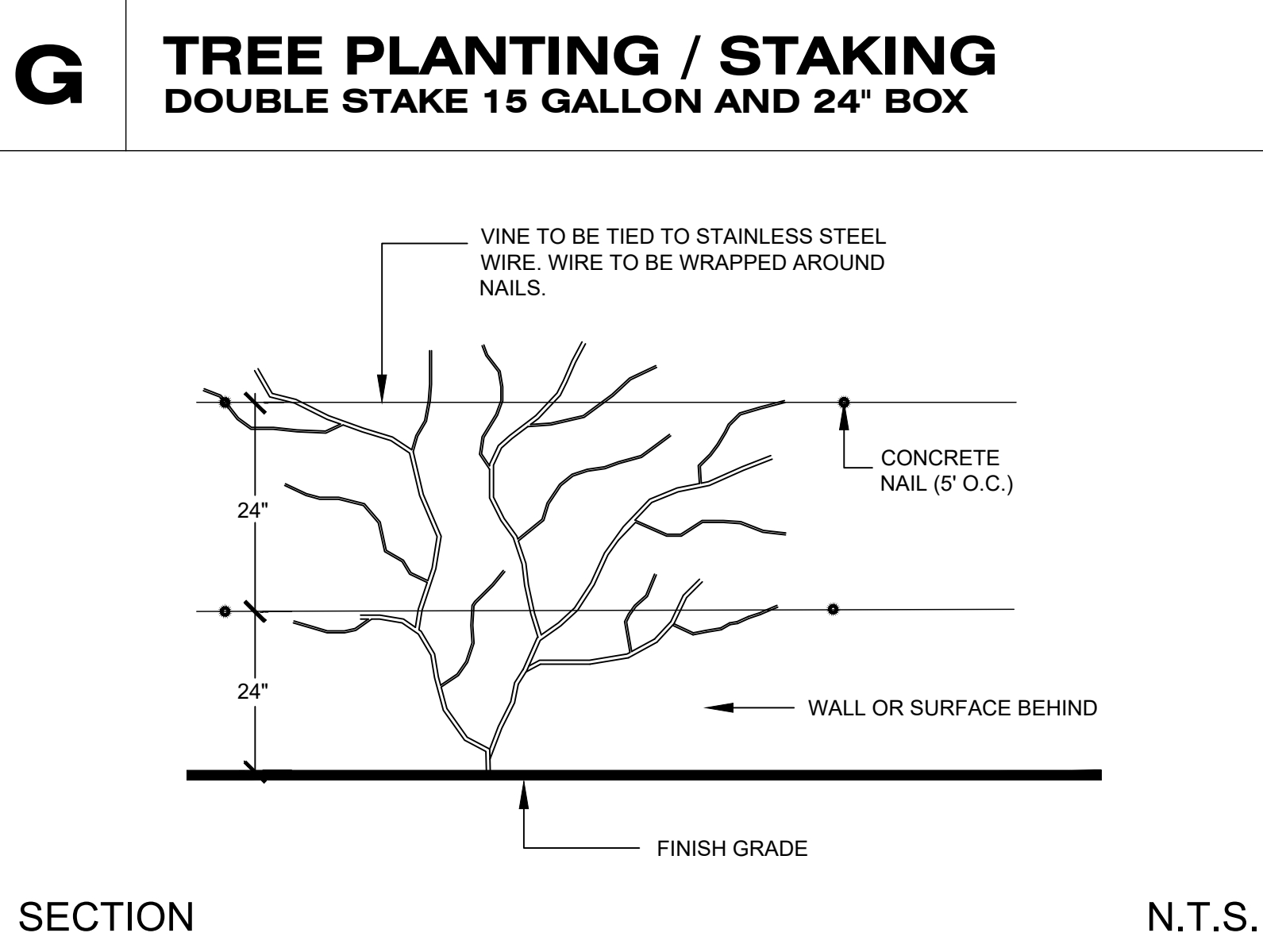
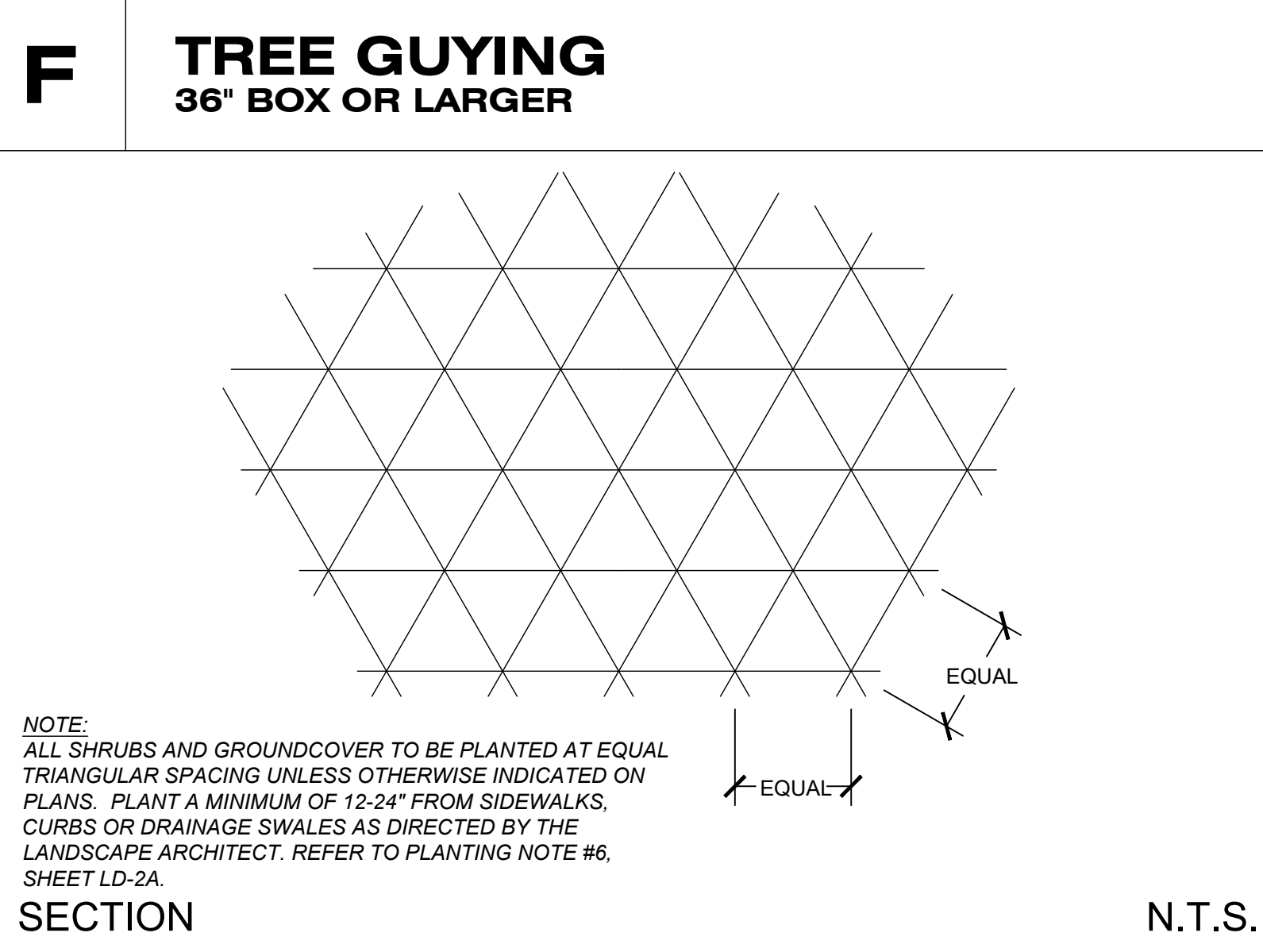
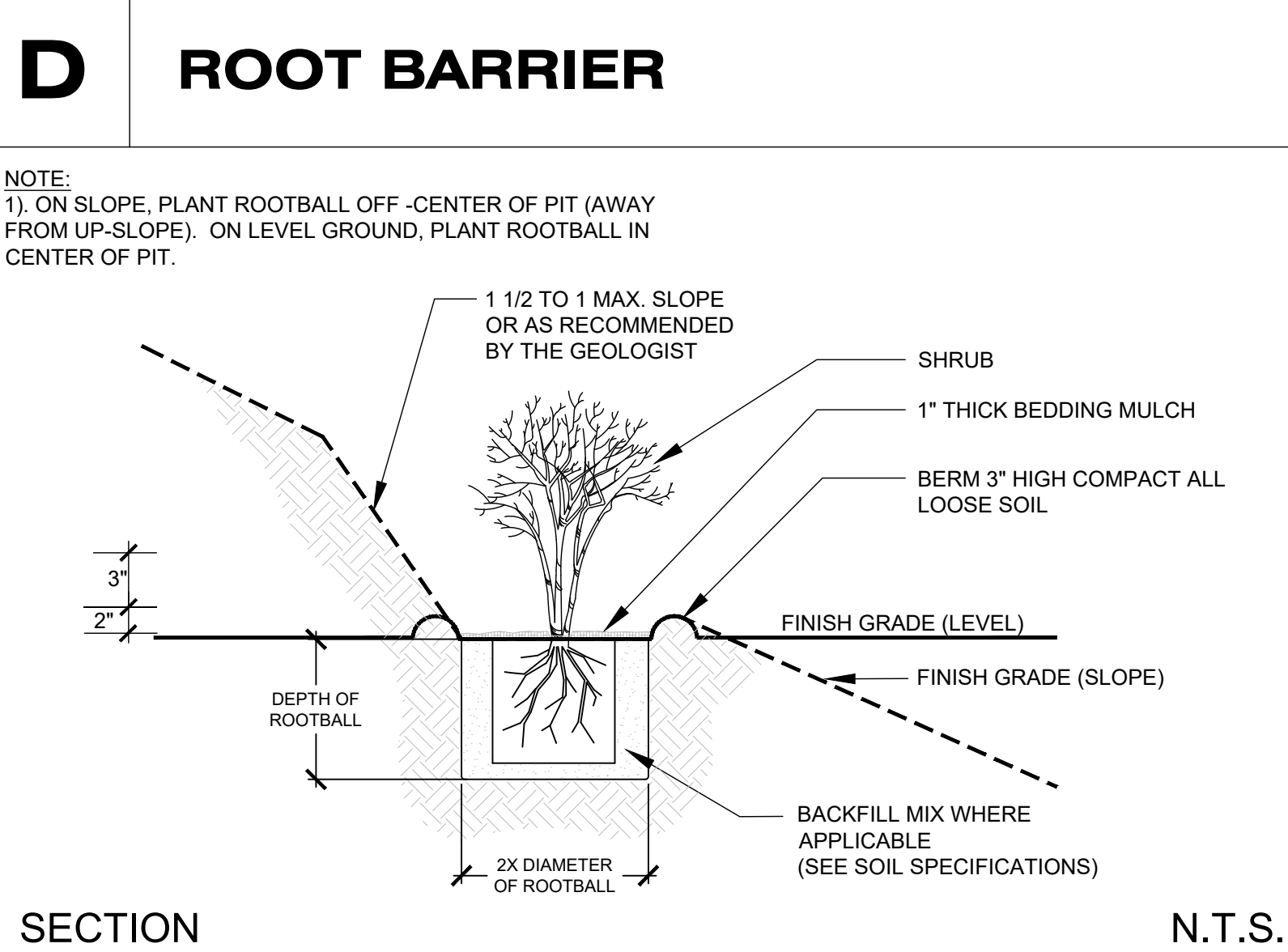
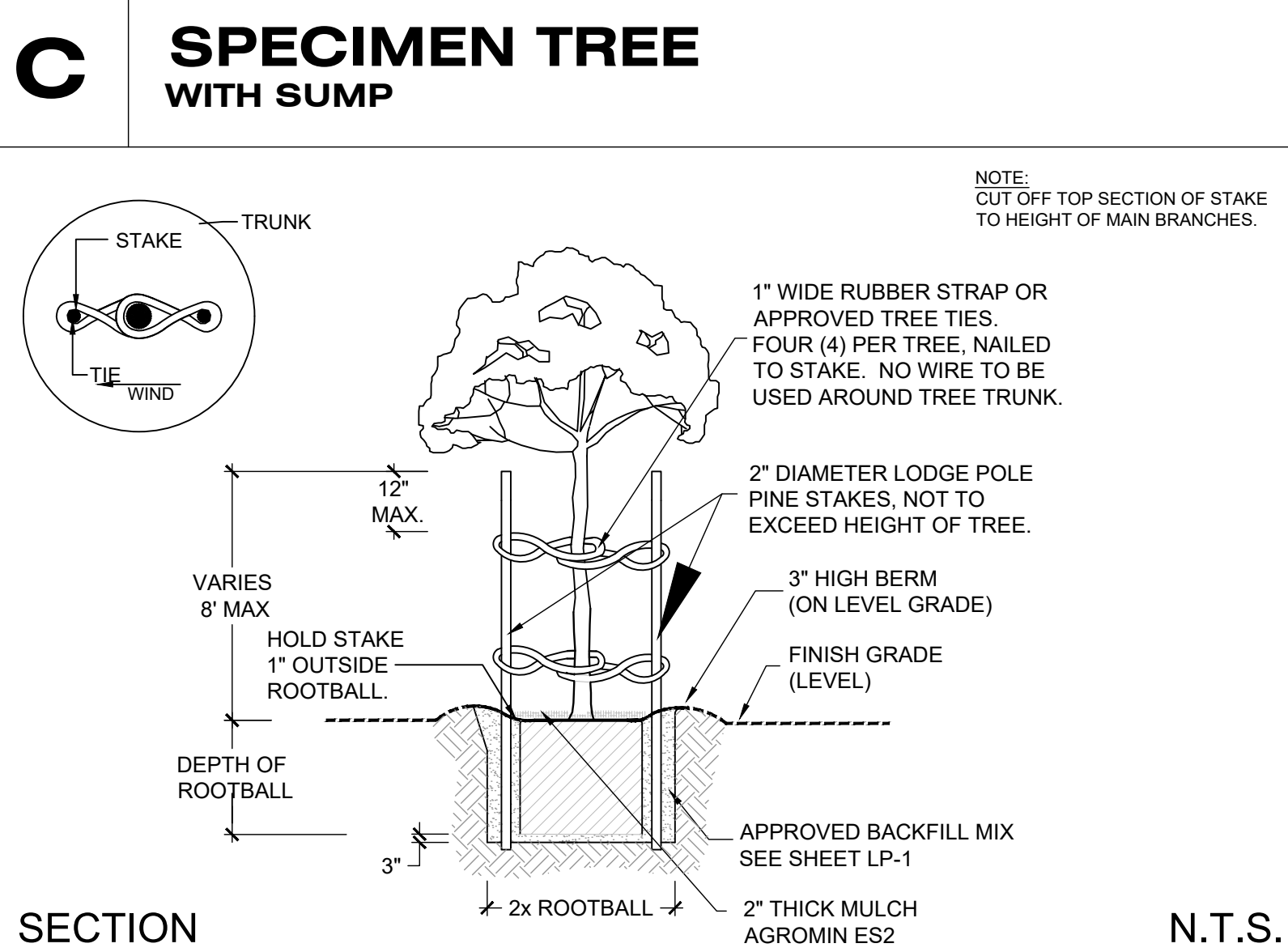
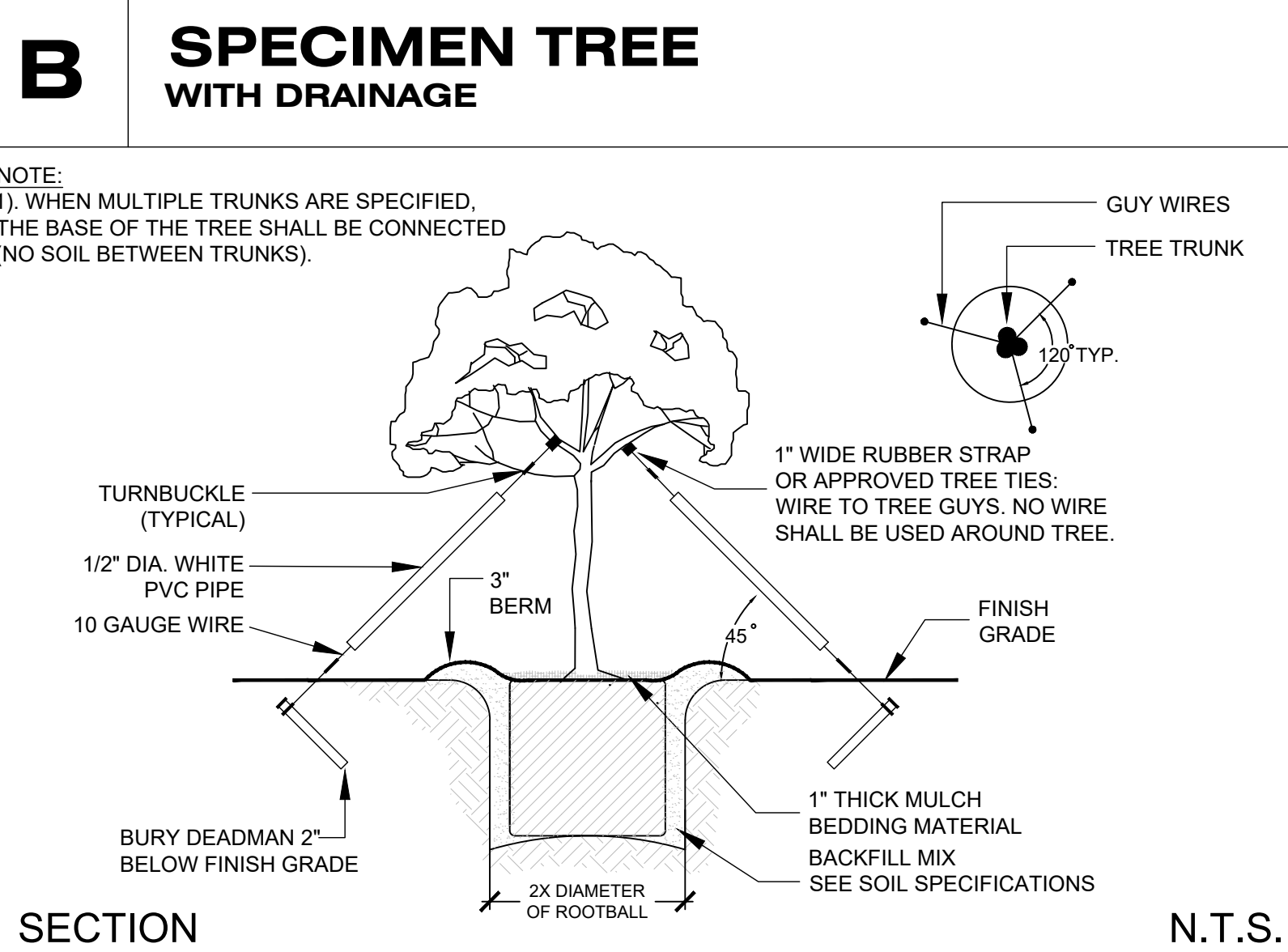
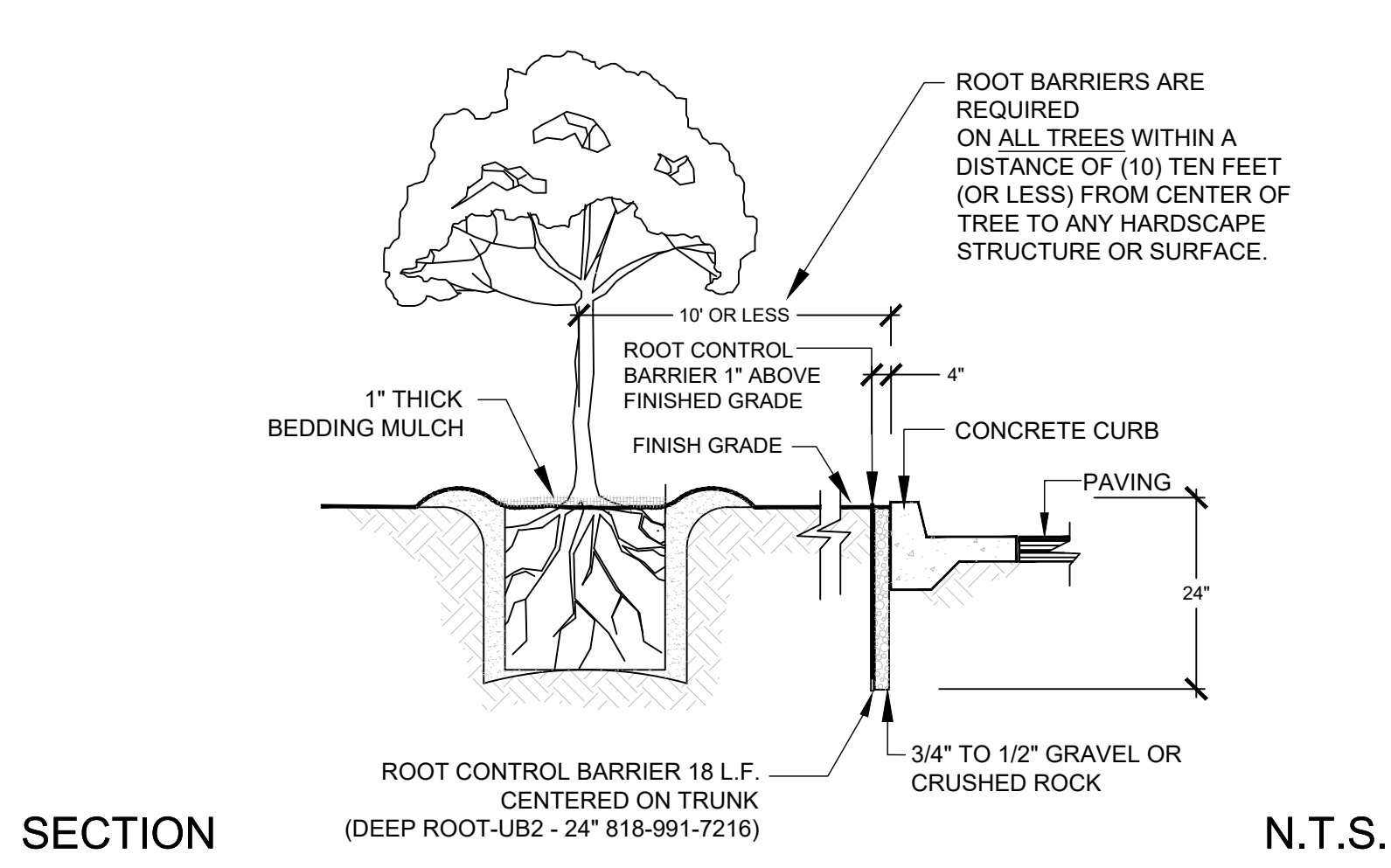
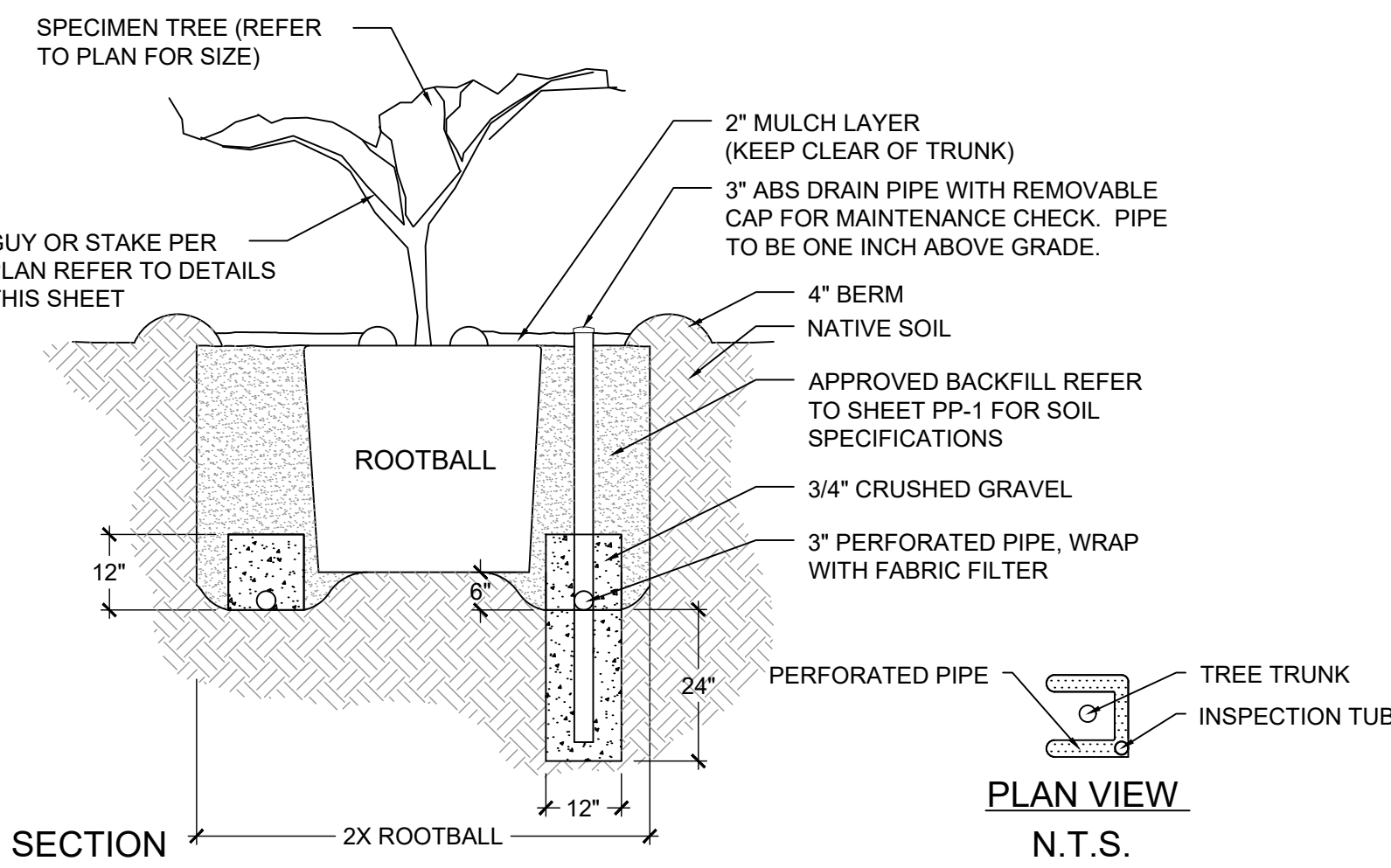
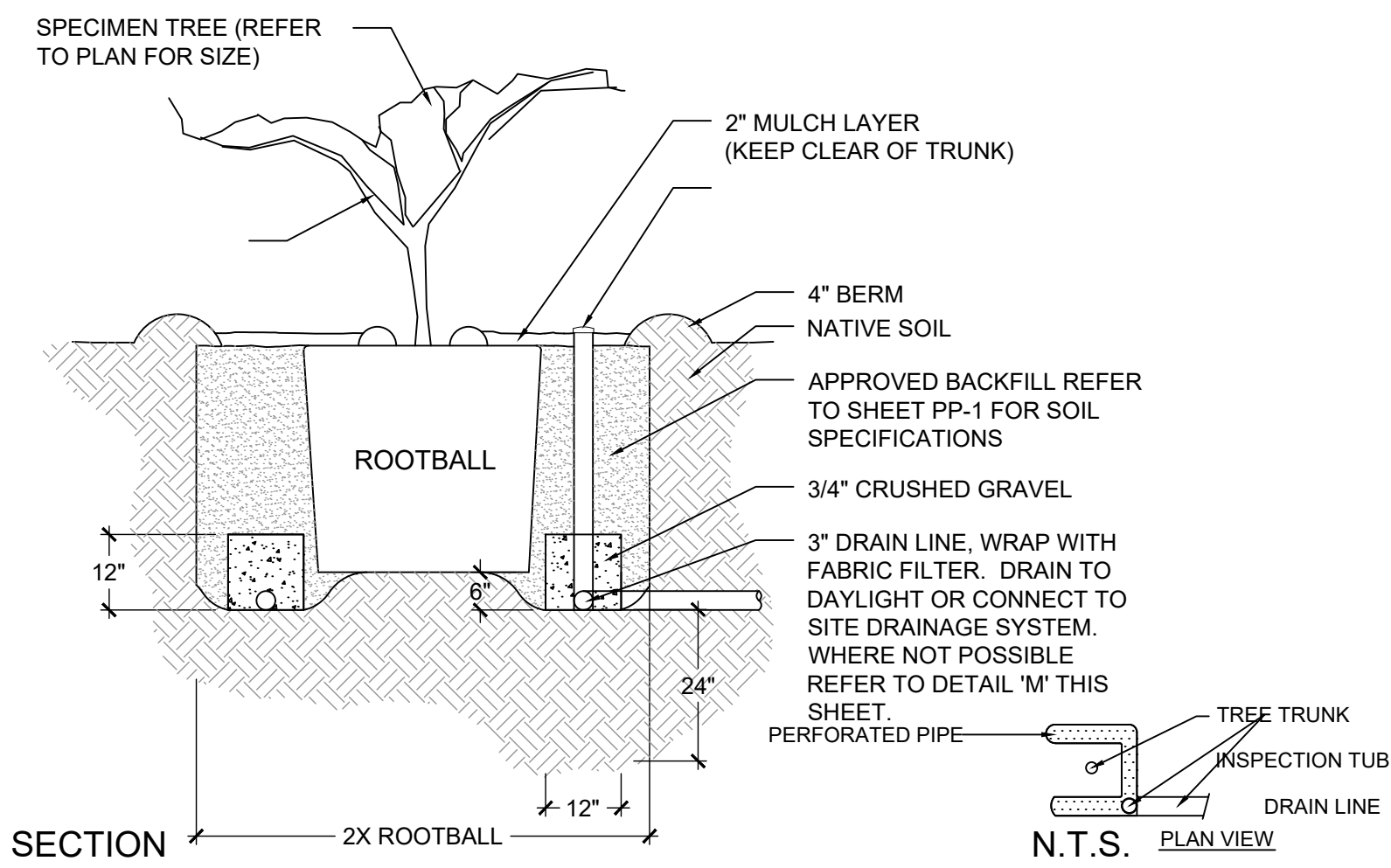


KANAN ROAD/AGOURA ROAD
 ULTIMATE INTERSECTION IMPROVEMENTS

CONSTRUCTION DETAILS CD-4

DESIGNED BY: BB DRAWN BY: RK CHECKED BY: XX KHA JOB NUMBER: 099083026

SHEET 41 OF 42



A

SECTION

N.T.S.

B SPECIMEN TREE WITH DRAINAGE

SECTION

N.T.S.

C SPECIMEN TREE WITH SUMP

SECTION

N.T.S.

D ROOT BARRIER

SECTION

N.T.S.

E

SECTION

N.T.S.

F TREE GUYING 36" BOX OR LARGER

SECTION

N.T.S.

G TREE PLANTING / STAKING DOUBLE STAKE 15 GALLON AND 24" BOX

SECTION

N.T.S.

H SHRUB PLANTING

SECTION

N.T.S.

I

SECTION

N.T.S.

J GROUNDCOVER SPACING

SECTION

N.T.S.

K VINE TYING / SPLAYING

SECTION

N.T.S.

95% SUBMITTAL

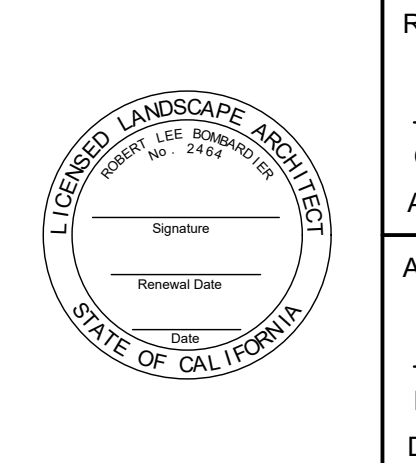
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2		65%PS&E		04/21/16
3		95%PS&E		05/03/17
4		95%PS&E		10/25/17
REV	SYMBOL	DESCRIPTION OF CHANGE	RCE	DATE

APPROVED BY:

Kimley»Horn

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660 South Figueroa Street, Suite 2050, Los Angeles, CA 90017
Tel (213) 261-4040

ROBERT BOMBARDIER RLA 2464



REVIEWED BY:

CHARMAINE YAMBABO 8/4/15
ASSOCIATE CIVIL ENGINEER DATE

APPROVED BY:

RAMIRO ADEVA 8/4/15
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER DATE



PREPARED BY:

L. Newman Design Group, Inc.

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KANAN ROAD/AGOURA ROAD
ULTIMATE INTERSECTION IMPROVEMENTS

CONSTRUCTION DETAILS CD-5

DESIGNED BY: BB DRAWN BY: RK CHECKED BY: XX KHA JOB NUMBER: 099083026

SHEET 42 OF 42