

CONTRACT C2004

US 101/BLOSSOM HILL ROAD INTERCHANGE IMPROVEMENT

Volume 3 – Contract Drawings / Plans - Part II

PROJECT ADMINISTERED BY:



Issued for Bid
March 26, 2020

Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
04	SCI	101	R28.4/R28.9	177 345

March 6, 2006
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA AND ITS OFFICERS
AND AGENCIES SHALL NOT BE RESPONSIBLE FOR
CORRECTNESS OR COMPLETENESS OF THIS PLAN SHEET.

Licensed Landscape Architect
No. 27897
City of San Jose
Department of Transportation
200 E. Santa Clara Street
San Jose, CA 95131

SPRINKLER SCHEDULE

SYMBOL	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (psi)	PRESSURE COMPENSATING	PLUS/MINUS 5%			INLET CONNECTION (NPT INCH)	POSITIVE-LOCKING ARC STOP	BACKSPASH PREVENTER	DIFFUSER PIN	DISTANCE CONTROL FLAP	ADJ DISCHARGE	RISER			SWING JOINT (TYPE)	RISER SUPPORT	SPRINKLER PROTECTOR (TYPE)	REMARKS
					DISCHARGE (GPM)	RADIUS (ft)	WIDTH x LENGTH (ft)							MATERIAL	SIZE (IPS INCH)	HEIGHT (INCH)				
○	C-2 FLOOD BUBBLER	-	30	X	0.25	15	-	PL	-	-	-	-	-	V	X	1/2	-	-	-	1 PER VINE, 1 PER SHRUB
●	(MOD) FLOOD BUBBLER	-	30	X	0.5	30	-	PL	-	-	-	-	-	V	X	1/2	-	-	-	2 PER TREE

X IN BOX DENOTES REQUIREMENT

APPLICABLE WHEN CIRCLED BELOW:

- 1 - SEE SPECIAL PROVISIONS.
- 2 - IF A PRESSURE COMPENSATING DEVICE IS SPECIFIED, THE DISCHARGE AND RADIUS REFLECT ITS USE.
- 3 - ARC STOP SHALL BE FITTED WITH A NUT AND BOLT.
- 4 - VINYL-COATED CAST IRON HOUSING.
- 5 - SWING JOINTS REQUIRED ADJACENT TO SHOULDERS, CURBS, SIDEWALKS, AND DIKES.
- 6 - UNLESS OTHERWISE SHOWN ON PLANS.

7 - 12" POP-UP HEIGHT

CALTRANS PIPE SIZING CHART (LATERAL LINE)

TYPE	C-2 BUBBLER AT SHRUBS	FLOOD	0.25 GPM EACH	0.5 GPM EACH	RCV
○	1" 13-20 GPM 1-80 HEADS	1 1/4" 21-32 GPM 1-128 HEADS	1 1/2" 33-50 GPM 1-200 HEADS	2" 51-60 GPM 1-240 HEADS	RCV

CITY OF SAN JOSE PIPE SIZING CHART (LATERAL LINE)

TYPE	C-2 BUBBLER AT TREES	FLOOD	0.5 GPM EACH
○	1" 0-12 GPM 1-24 HEADS	1 1/4" 13-20 GPM 1-40 HEADS	1 1/2" 21-32 GPM 1-64 HEADS

CALTRANS PIPE SIZING CHART (LATERAL LINE)

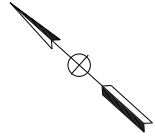
TYPE	C-2 BUBBLER AT TREES	FLOOD	0.5 GPM EACH
●	1" 0-12 GPM 1-24 HEADS	1 1/4" 21-32 GPM 1-64 HEADS	1 1/2" 33-50 GPM 1-100 HEADS

IRRIGATION SPRINKLER SCHEDULE

NO. SCALE

ISS-1

DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS
04	SCI	101	R28.4/R28.9	178 345



LICENSED LANDSCAPE ARCHITECT
 March 6, 2008
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA AND ITS OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
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 COPIES OF THIS PLAN SHEET.

CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 95131

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	WILLIAM B. SOMA	DATE REVISED
DESIGNED BY	CHECKED BY	GINO ORLANDO	WILLIAM B. SOMA	REVISOR



LEGEND

- PRESSURE REDUCING REMOTE CONTROL VALVE (PRCV)
- *-*-*-*- EXISTING IRRIGATION SYSTEM TO BE REMOVED

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. PLASTIC PIPE (SUPPLY LINE) (MAIN), ON SHEETS IP-1 TO IP-9, SHALL BE 2" (PR315), UNLESS OTHERWISE NOTED.
3. SEE LAYOUT PLANS AND SUMMARY OF QUANTITIES FOR LOCATION AND SIZE INFORMATION OF IRRIGATION CONDUITS AND SLEEVES.
4. QUICK COUPLING VALVES SHALL BE 3/4" AND SHALL BE INSTALLED ON A SWING JOINT TYPE 1 WITH A SPRINKLER PROTECTOR, TYPE 1.
5. VALVES, WYE STRAINERS, BACKFLOW PREVENTER ASSEMBLIES, AND QUICK COUPLING VALVES SHOWN NEAR GATE, SHALL BE INSTALLED 10 TO 12 FEET FROM THE GATE.

IRRIGATION PLAN
 SCALE: 1" = 20'

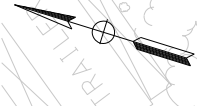
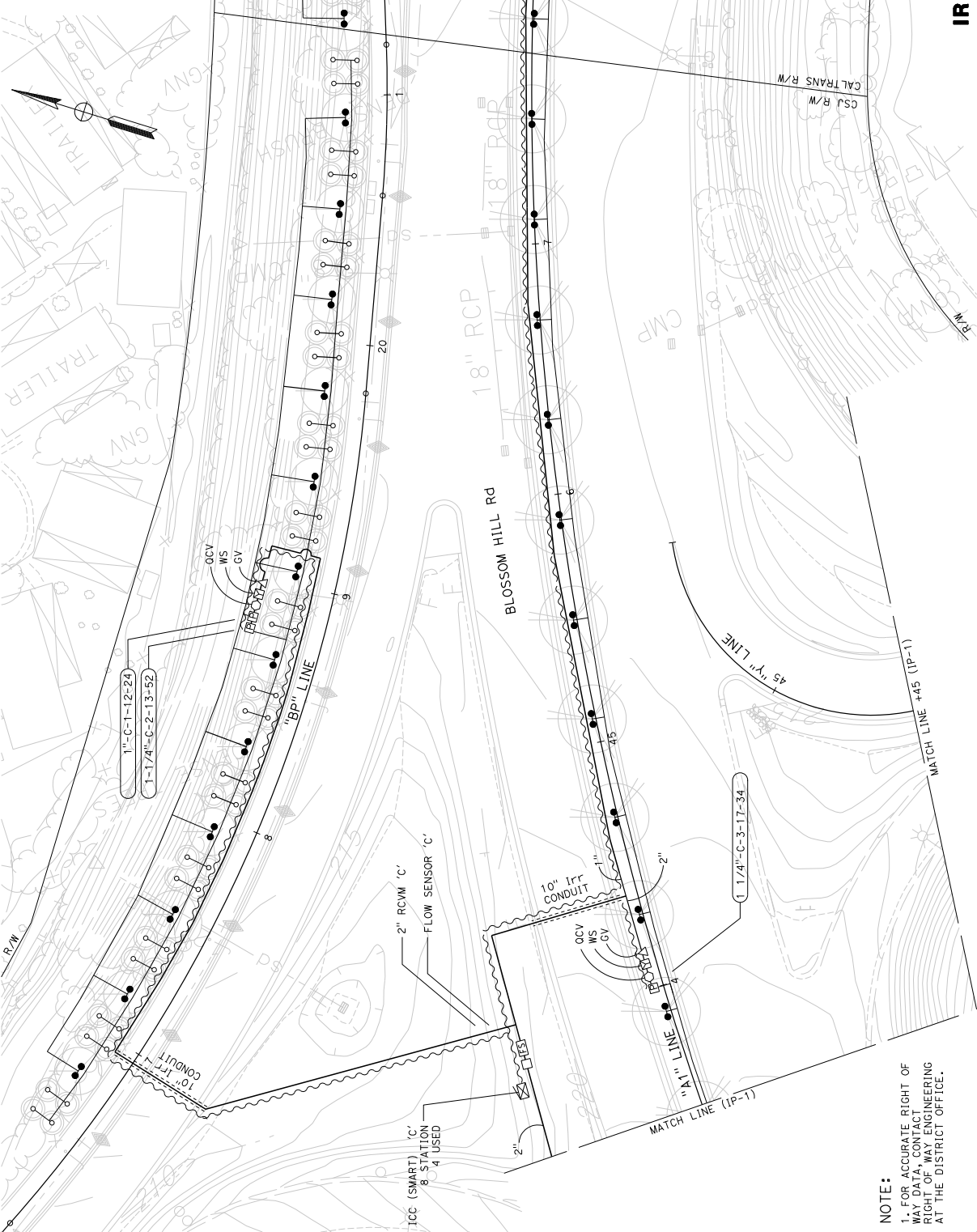
IP-1

APPROVED FOR IRRIGATION WORK ONLY

DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS
04	SCI	101	R28.4/R28.9	179 345

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CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 1570 OAKLAND ROAD
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 95131



IRRIGATION PLAN

SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET IP-1

APPROVED FOR IRRIGATION WORK ONLY

RELATIVE BORDER SCALE 15 IN INCHES

UNIT 0716

PROJECT NUMBER & PHASE 0416000224

IP-2

NOTE:
 1. FOR ACCURATE RIGHT OF WAY CENTERLINE ENGINEERING AT THE DISTRICT OFFICE.

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	DESIGNED BY	GINO ORLANDO		REVISD BY	
	CHECKED BY		WILLIAM B. SOMA	DATE REVISED	

DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS
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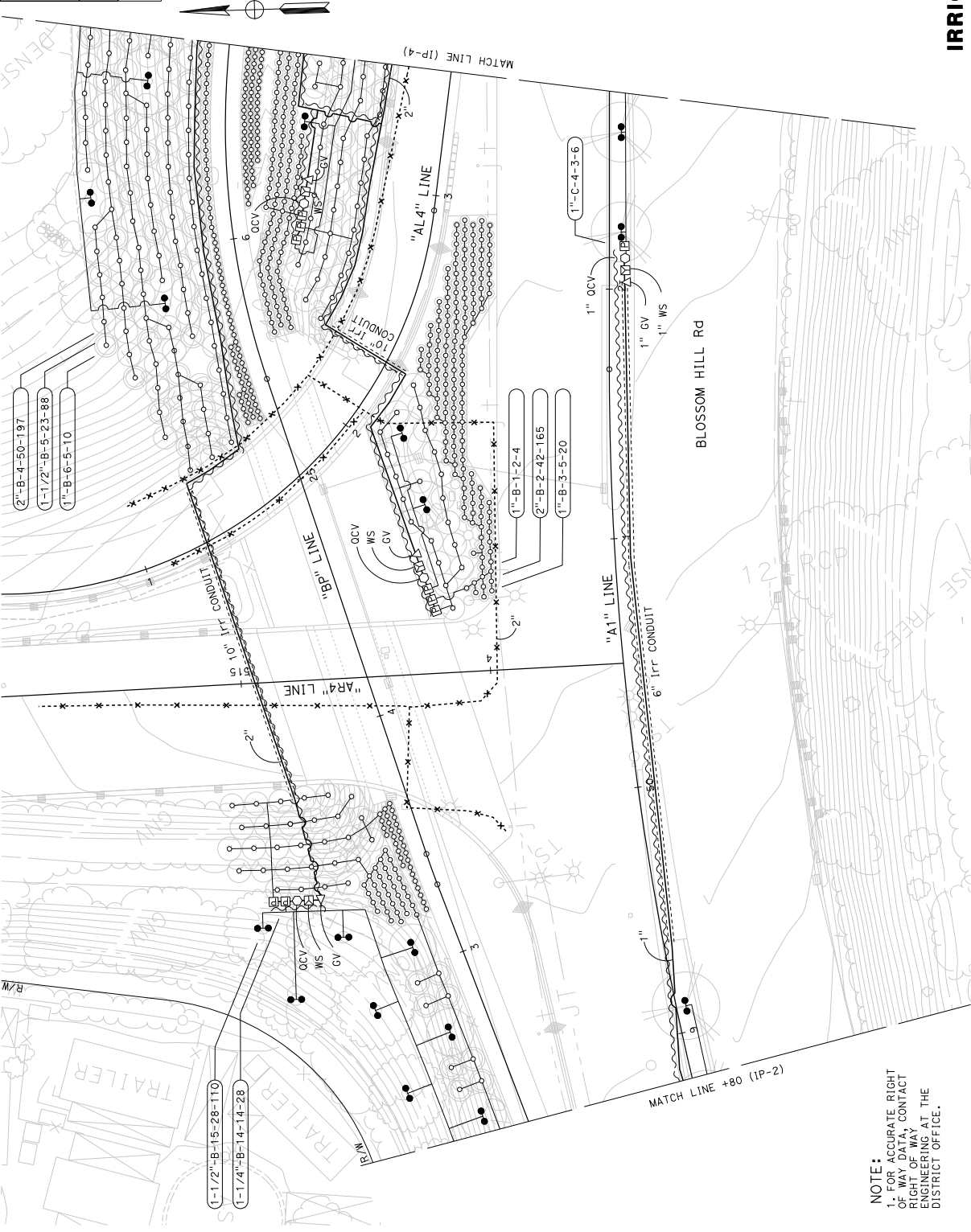
LICENSED LANDSCAPE ARCHITECT

March 6, 2008
PLANS APPROVAL DATE

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CITY OF SAN JOSE
DEPARTMENT OF TRANSPORTATION
200 E. SANTA CLARA STREET
SAN JOSE, CA 95131

1570 OAKLAND ROAD
SAN JOSE, CA 95131



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	WILLIAM B. SOMA	DATE REVISED
DESIGNED BY	GINO ORLANDO	GINO ORLANDO	WILLIAM B. SOMA	DATE REVISED

NOTE:
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT ENGINEERING AT THE DISTRICT OFFICE.

IRRIGATION PLAN
SCALE: 1" = 20'

APPROVED FOR IRRIGATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET IP-1

RELATIVE BORDER SCALE
15 IN INCHES

UNIT 0716

PROJECT NUMBER & PHASE

0416000224

IP-3

Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
04	SCI	101	R28.4/R28.9	181 345

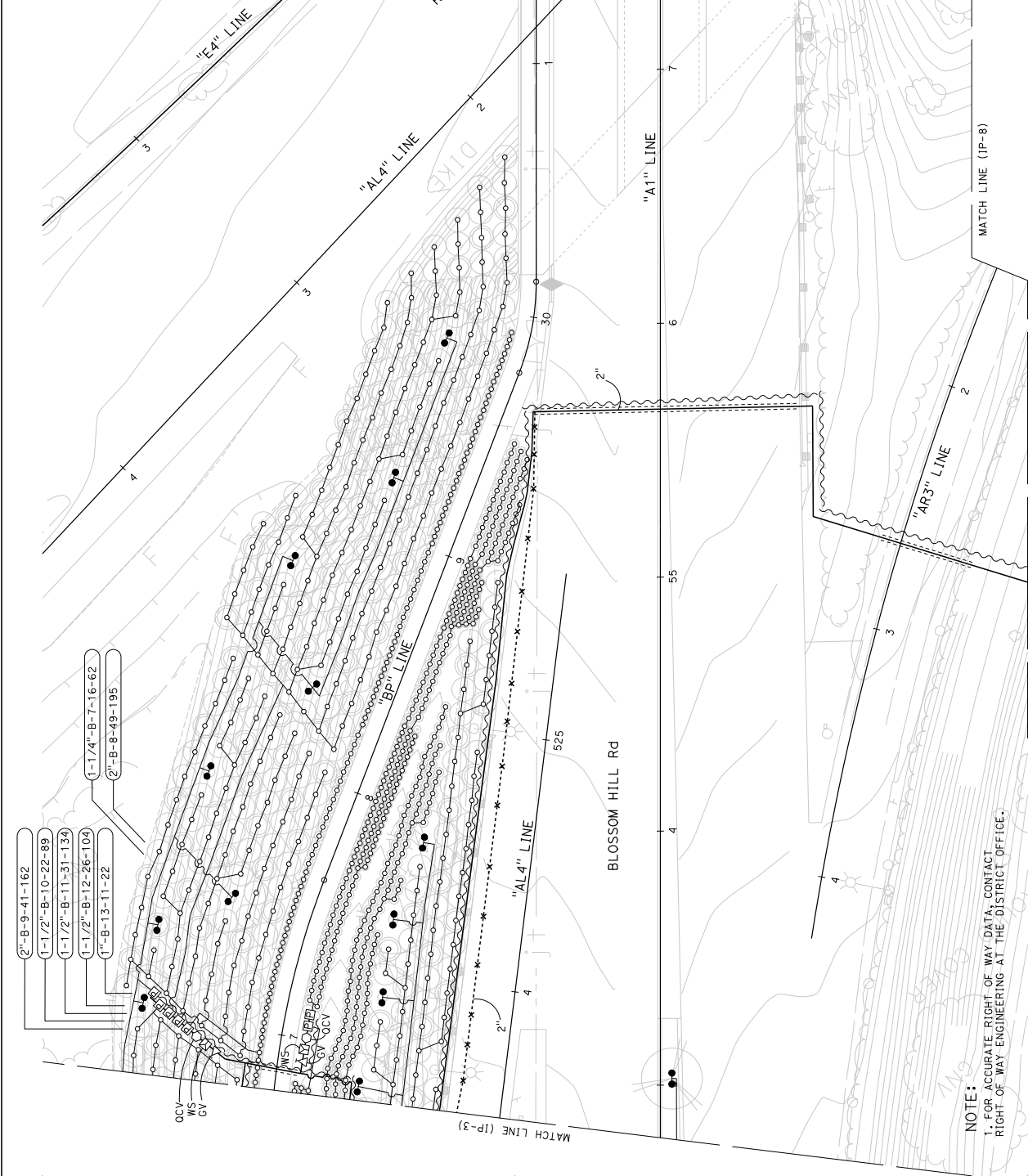
LICENSED LANDSCAPE ARCHITECT

March 6, 2008
PLANS APPROVAL DATE

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LMH
CITY OF SAN JOSE
DEPARTMENT OF TRANSPORTATION
1570 OAKLAND ROAD
SAN JOSE, CA 95131

200 E. SANTA CLARA STREET
SAN JOSE, CA 95113



- 2"-B-9-41-162
- 1-1/2"-B-10-22-89
- 1-1/2"-B-11-31-134
- 1-1/2"-B-12-26-104
- 1"-B-13-11-22
- 1-1/4"-B-7-16-62
- 2"-B-8-49-195

NOTE:
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

IRRIGATION PLAN

SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEET IP-1

APPROVED FOR IRRIGATION WORK ONLY

RELATIVE BORDER SCALE
15 IN INCHES

UNIT 0716

PROJECT NUMBER & PHASE

0416000224

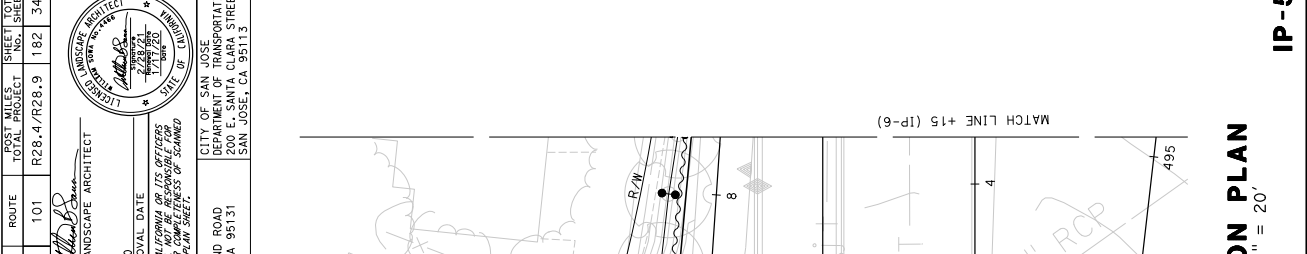
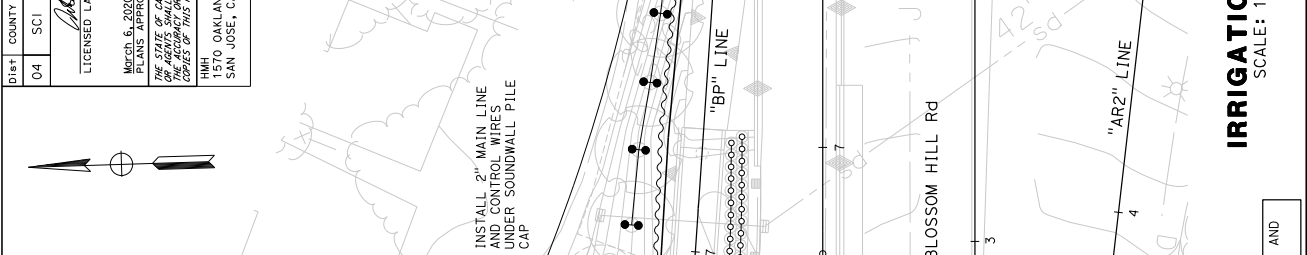
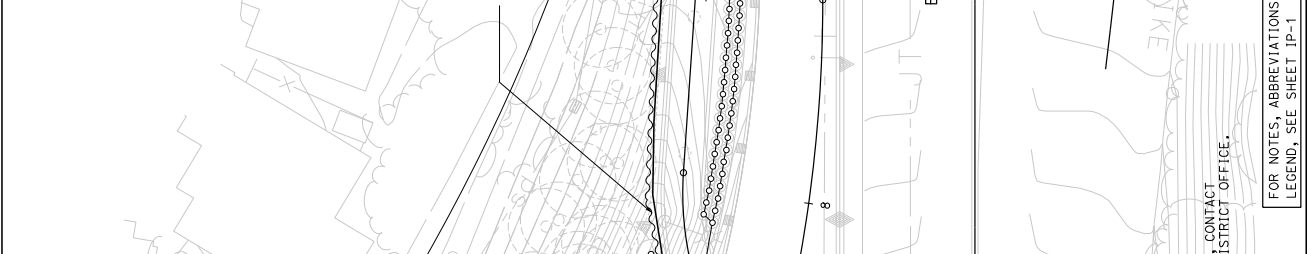
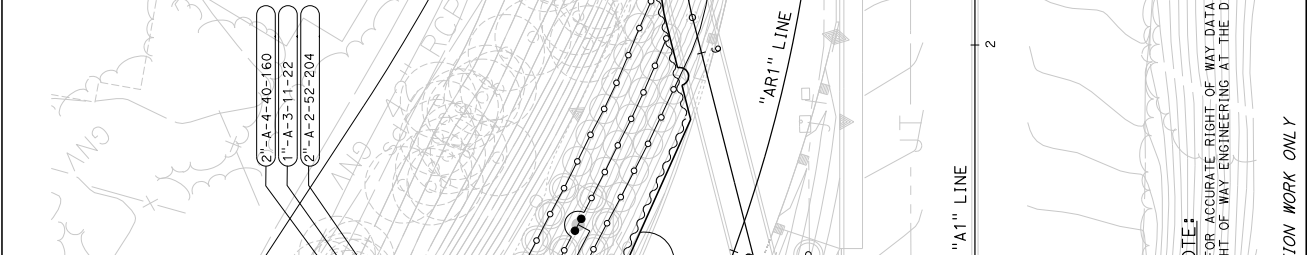
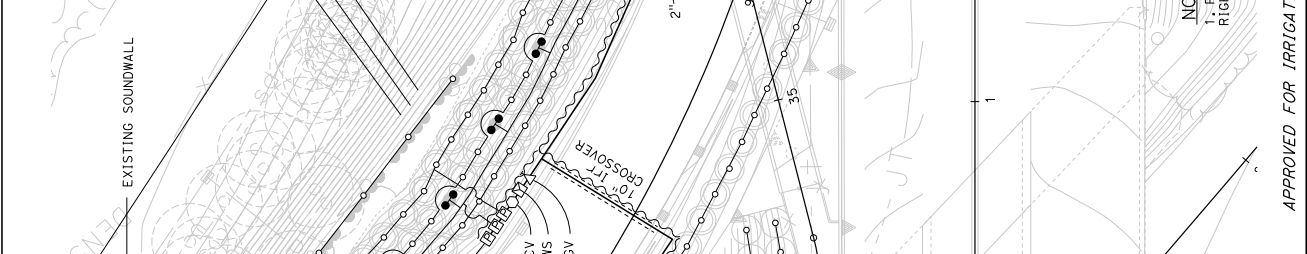
IP-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	WILLIAM B. SOMA	DATE REVISION
DESIGNED BY	GINO ORLANDO	REVISION	DATE REVISION	
CHECKED BY	WILLIAM B. SOMA	DATE REVISION		

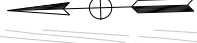
DESIGNED BY	GINO ORLANDO
CHECKED BY	WILLIAM B. SOMA
DATE REVISIONS	

POST MILES TOTAL PROJECT	ROUTE	SHEET TOTAL SHEETS
R28.4/R28.9	101	182 345

March 6, 2008
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 LICENSED LANDSCAPE ARCHITECT
 WILLIAM B. SOMA
 CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 95131



DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
04	SCI	101	R28.4/R28.9	183 345

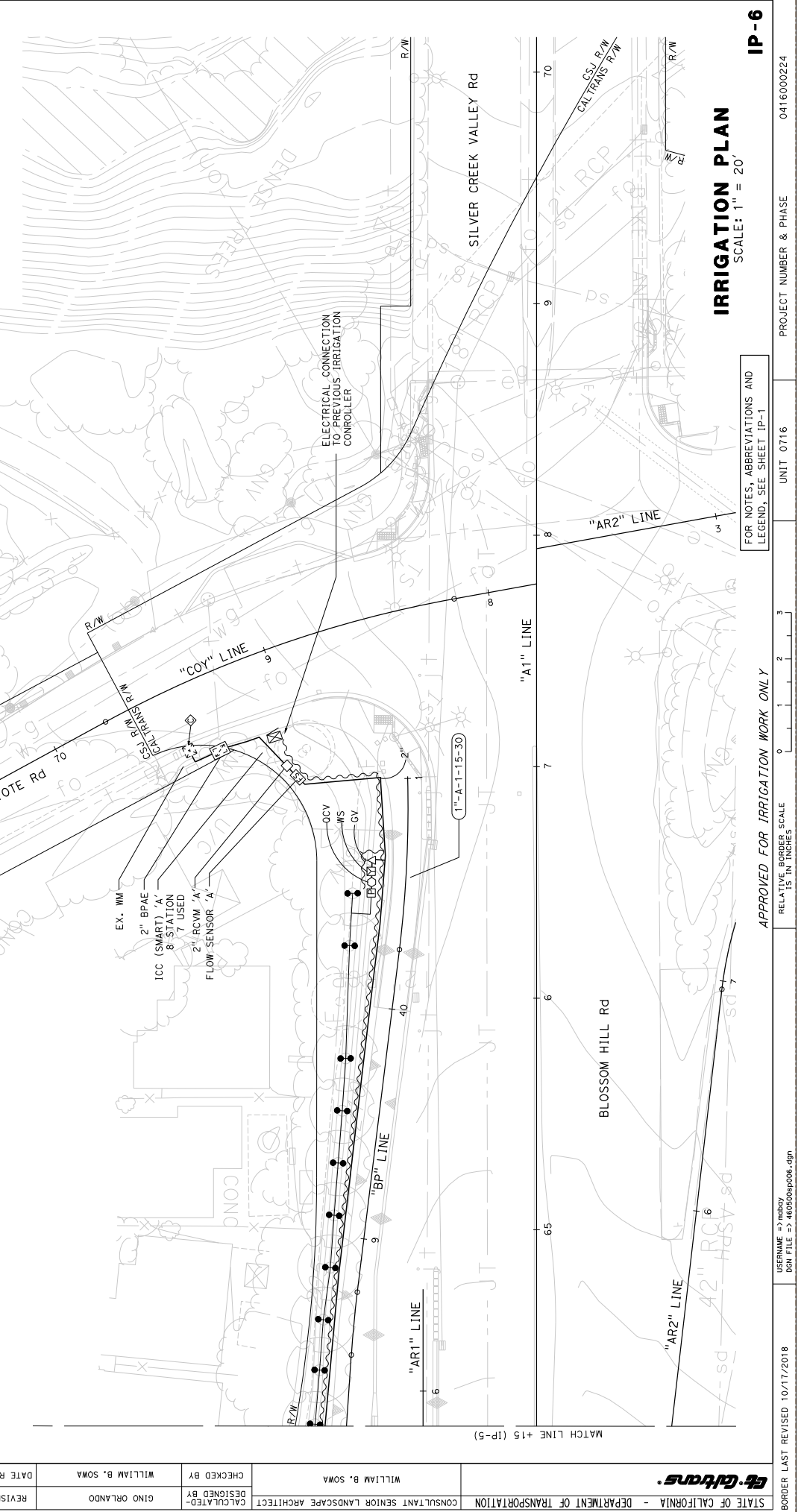


LICENSED LANDSCAPE ARCHITECT
 March 6, 2008
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WMH
 CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 95131

NOTE:
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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	WILLIAM B. SOMA	DATE REVISED
DESIGNED BY	CHECKED BY	GINO ORLANDO	WILLIAM B. SOMA	DATE REVISED



IRRIGATION PLAN
 SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND
 LEGEND, SEE SHEET IP-1

APPROVED FOR IRRIGATION WORK ONLY
 RELATIVE BORDER SCALE
 15 IN INCHES


UNIT 0716

PROJECT NUMBER & PHASE

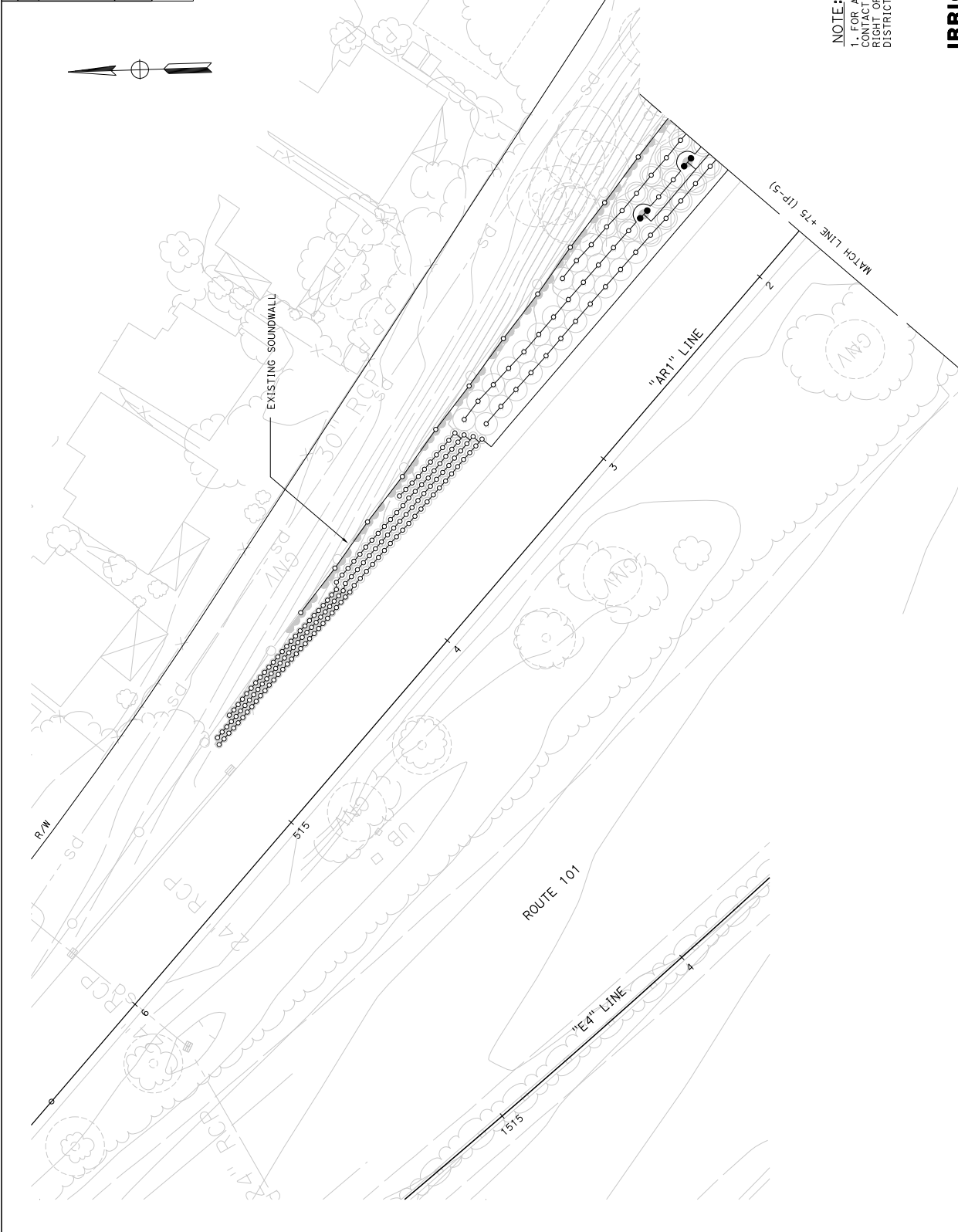
0416000224

IP-6

Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
04	SCI	101	R28.4/R28.9	184 345

LICENSED LANDSCAPE ARCHITECT

 March 6, 2008
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CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 95113



NOTE:
 1. FOR ACCURATE RIGHT OF WAY DATA,
 CONTACT THE RIGHT OF WAY ENGINEERING AT THE
 DISTRICT OFFICE.

IRRIGATION PLAN
 SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND
 LEGEND, SEE SHEET IP-1

APPROVED FOR IRRIGATION WORK ONLY

RELATIVE BORDER SCALE
 IS IN INCHES

USERNAME => wbsoma
 DON FILE => 460500pp001.dgn

BORDER LAST REVISED 10/17/2018

UNIT 0716

PROJECT NUMBER & PHASE 0416000224

IP-7

LAST REVISION DATE PLOTTED => 06-MAR-2020
 TIME PLOTTED => 13:32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	CHECKED BY	WILLIAM B. SOMA	DATE REVISED BY	GINO ORLANDO
			DESIGNED BY	GINO ORLANDO	REVISOR	

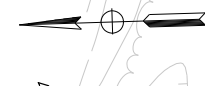
DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS
04	SCI	101	R28.4/R28.9	185 345



LICENSED LANDSCAPE ARCHITECT
 March 6, 2008
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W.B. Sowa
 LICENSED LANDSCAPE ARCHITECT
 1570 OAKLAND ROAD
 SAN JOSE, CA 95131
 CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 95113

NOTE:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



ROUTE 101



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOWA	CHECKED BY	WILLIAM B. SOWA	DATE REVISED BY	GINO ORLANDO
			DESIGNED BY	GINO ORLANDO	REVISOR	

IRRIGATION PLAN

SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND
 LEGEND, SEE SHEET IP-1

APPROVED FOR IRRIGATION WORK ONLY

RELATIVE BORDER SCALE
 IS IN INCHES

UNIT 0716

PROJECT NUMBER & PHASE

0416000224

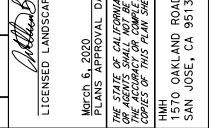
IP-8

DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	R28.4/R28.9	186	345

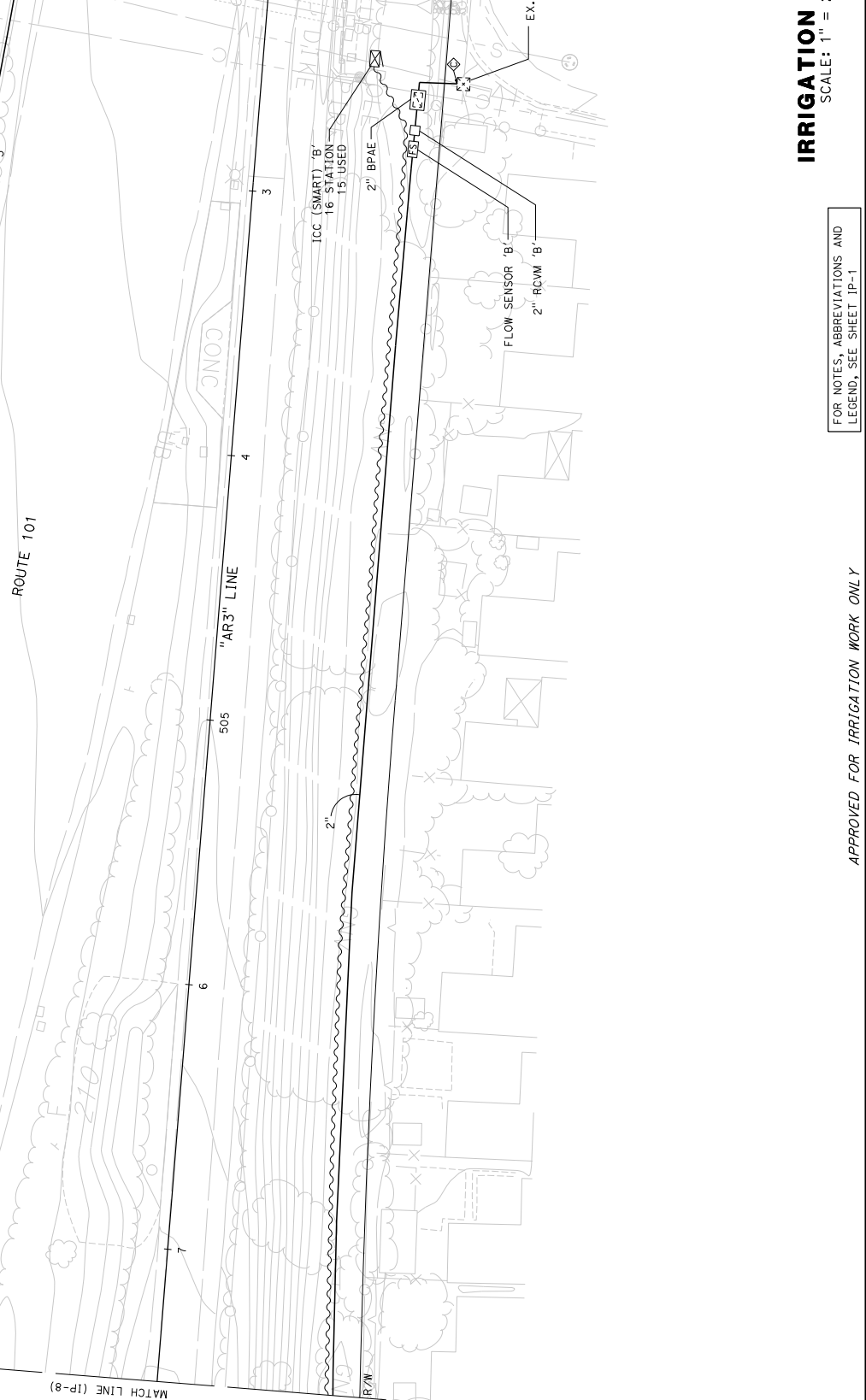
LICENSED LANDSCAPE ARCHITECT

March 6, 2008
 PLANS APPROVAL DATE
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CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 95131



NOTE:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT
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IRRIGATION PLAN
 SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND
 LEGEND, SEE SHEET IP-1

APPROVED FOR IRRIGATION WORK ONLY

RELATIVE BORDER SCALE
 IS IN INCHES

UNIT 0716

BORDER LAST REVISED 10/17/2018

PROJECT NUMBER & PHASE

0416000224

IP-9

LAST REVISION

DATE PLOTTED => 06-MAR-2020

TIME PLOTTED => 13:32

01-17-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	WILLIAM B. SOMA	DATE REVISION	REVISION BY	CALCULATED-DESIGNED BY	GINO ORLANDO	CHECKED BY	WILLIAM B. SOMA	DATE REVISION
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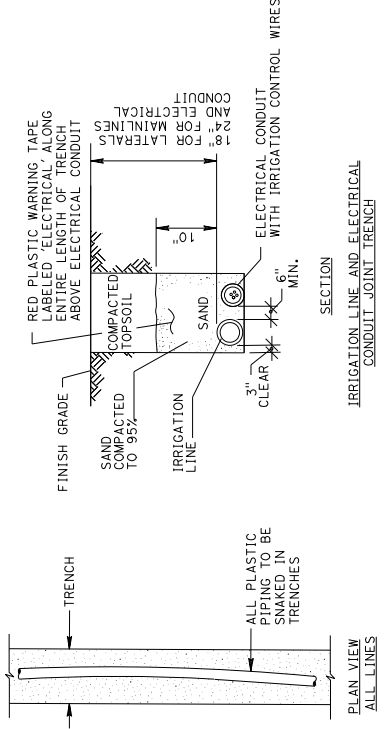
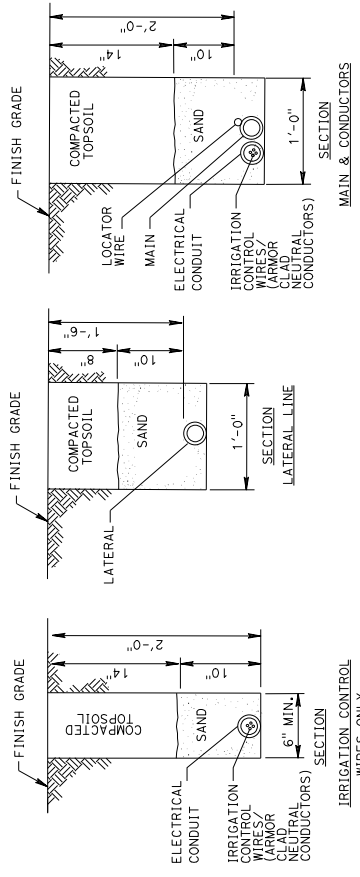
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LICENSED LANDSCAPE ARCHITECT

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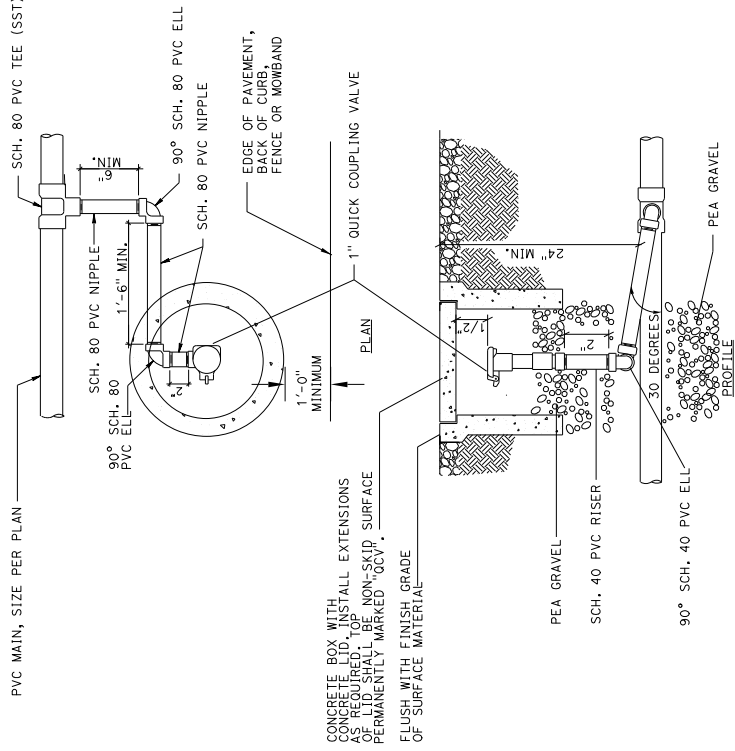
CITY OF SAN JOSE
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SAN JOSE, CA 95131



- NOTES:
1. TAPE AND BUNDLE WIRING AT TEN FOOT INTERVALS.
 2. SAND BEDDING REQUIRED IN TRENCHES WITH ROCKY TERRAIN, (TYPICAL ALL SITUATIONS) LAY PIPE ON 2" SAND BED.
 3. UNDER PAVED AREAS INSTALL ALL IRRIGATION LINES AND CONTROL WIRES IN SLEEVING.

IRRIGATION TRENCH DETAILS

- NOTES:
1. THIS PLAN IS APPLIED FOR THIS PROJECT ONLY AND HAS BEEN MODIFIED FROM CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION CAD DETAIL.
 2. DETAIL SHOWN ON THIS SHEET ONLY APPLIES TO MEDIAN TREE PLANTING AND IRRIGATION SYSTEM ALONG BLOSSOM HILL ROAD.



- NOTES:
1. REFER TO THE SPECIFICATIONS FOR PIPE CONNECTIONS
 2. STREET ELLS SHALL NOT BE ACCEPTABLE

QUICK COUPLING VALVE DETAIL

DATE PLOTTED => 06-MAR-2020

TIME PLOTTED => 13:32

LAST REVISION

PROJECT NUMBER & PHASE

UNIT 0716

RELATIVE BORDER SCALE 15 IN INCHES

0 1 2 3

0416000224

IRRIATION DETAILS (CITY OF SAN JOSE)

NO SCALE

ID-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	WILLIAM B. SOMA	DATE REVISION	GINO ORLANDO	REVISION BY	WILLIAM B. SOMA	DATE REVISION

BORDER LAST REVISED 10/17/2018

USERNAME => wbcacy
DON FILE => 460506e4002.dgn

RELATIVE BORDER SCALE
15 IN INCHES

UNIT 0716

PROJECT NUMBER & PHASE

0416000224

ID-2

IRRIGATION DETAILS (CITY OF SAN JOSE)

NO SCALE

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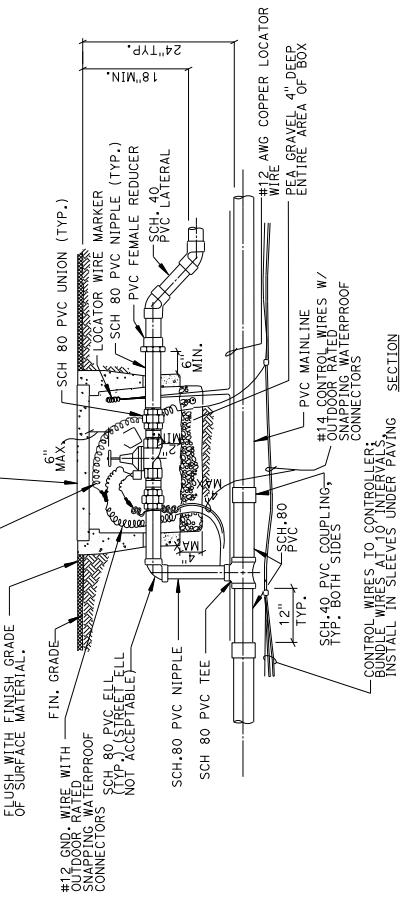
LICENSED LANDSCAPE ARCHITECT

March 6, 2006
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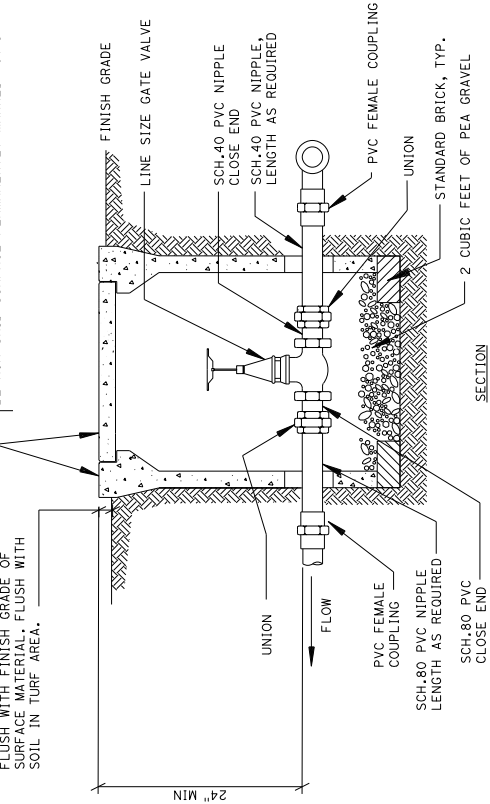
ALL CONTROL WIRES TO BE CONNECTED TO THE CONTROL WIRE MARKER WITH A MINIMUM OF 3 FEET INTO EACH BOX. THE BOX NUMBER AS REQUIRED BELOW. NOTE: ADD VALVE TAG WITH # TO CORRESPOND WITH STATION IN CONTROLLER.



NOTE: 1. REFER TO THE SPECIFICATIONS FOR PIPE CONNECTIONS.

CSJ REMOTE CONTROL VALVE DETAIL

VALVE BOX WITH A REINFORCED CONCRETE COVER IN NON-TURF AREAS ONLY. INSTALL EXTENSIONS AS REQUIRED. TOP OF LID SHALL BE NON-SKID SURFACE PERMANENTLY MARKED "GV".



CSJ GATE VALVE DETAIL (3/4" TO 2-1/2")

NOTES:

1. THIS PLAN IS APPLIED FOR THIS PROJECT ONLY AND HAS BEEN MODIFIED FROM THE STANDARD DETAIL OF THE DEPARTMENT OF TRANSPORTATION CAD DETAIL.
2. DETAIL SHOWN ON THIS SHEET ONLY AND LID SHALL BE MARKED WITH AN INCH AND LIGATION SYSTEM ALONG BLOSSOM HILL ROAD.

DIS#	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	189 345

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CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 95131

LICENSED ARCHITECT
 278001
 11/17/2007
 11/17/2007

CIVIL ENGINEER
 11/17/2007

CIVIL ENGINEER
 11/17/2007

CIVIL ENGINEER
 11/17/2007

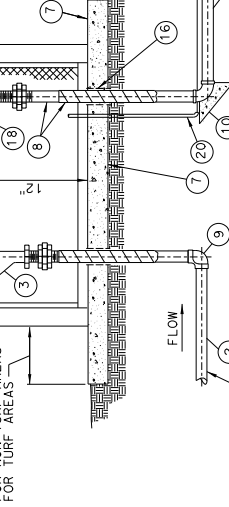
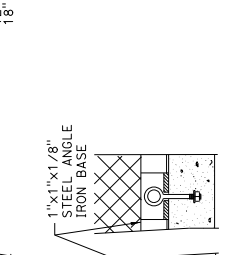
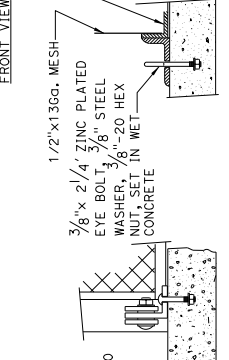
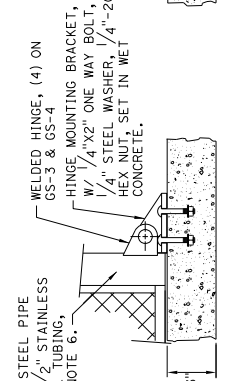
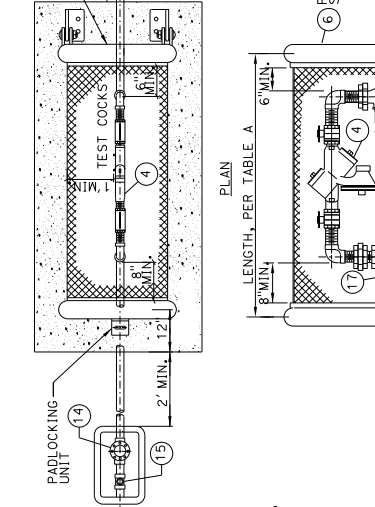
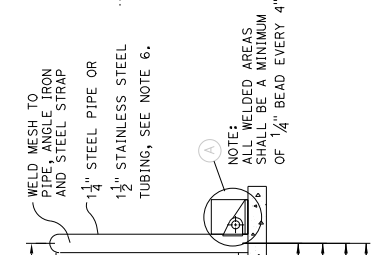
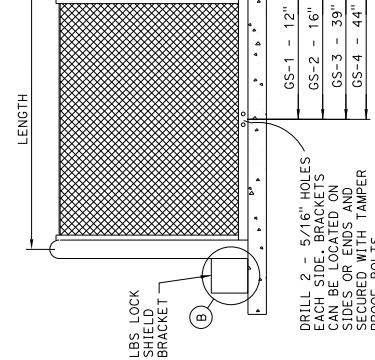
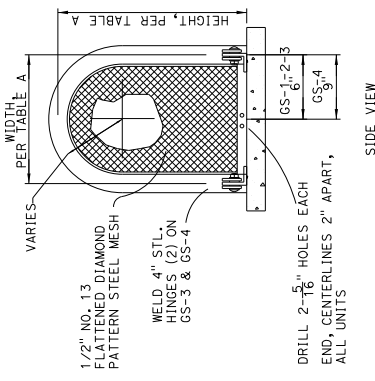
CIVIL ENGINEER
 11/17/2007

CIVIL ENGINEER
 11/17/2007

CIVIL ENGINEER
 11/17/2007

NOTES:

- THIS PLAN IS APPLIED FOR THIS PROJECT ONLY AND HAS BEEN MODIFIED BY THE DEPARTMENT OF TRANSPORTATION AND SAN JOSE DETAIL.
- DETAIL SHOWN ON THIS SHEET ONLY AND IRRIGATION SYSTEM ALONG BLOSSOM HILL ROAD.



- NOTES:**
- AFTER ALL WELDING, ENTIRE UNIT SHALL BE PROCESSED WITH IRON PHOSPHATE TREATMENT. ELECTROSTATIC APPLICATION OF POWDER SHALL BE FUSION BONDED TO ALL SURFACES. THIS FINISH IS AVAILABLE IN 304 SS ONLY.
 - ALL UNITS ALSO AVAILABLE IN 304 SS. GS-3 IS AVAILABLE IN 304 SS ONLY.
 - ALL BOLTS FOR HINGES AND HASPS SHALL BE ZINC PLATED TAMPER PROOF, EXCEPTION - USE SS HARDWARE FOR SS UNITS.

- ABBREVIATIONS:**
- GS = POWDER COATED STEEL GUARD SHACK
 - CS = STAINLESS STEEL COAST GUARD SHACK
 - W/ SAND BLASTED SATIN FINISH

REDUCED PRESSURE BACKFLOW PREVENTER WITH STRAINER, PRESSURE REGULATING VALVE AND ENCLOSURE FOR POTABLE WATER
(3/4" TO 2" BACKFLOW & SINGLE-SWING ENCLOSURE SHOWN)

NO SCALE

IRRIGATION DETAILS
(CITY OF SAN JOSE)

NO SCALE

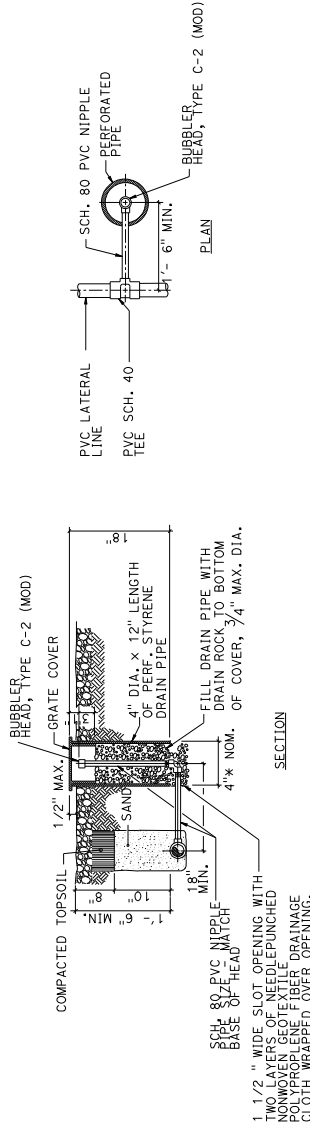
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	DATE REVISION
GINO ORLANDO	DESIGNED BY	WILLIAM B. SOMA	REVISION BY
WILLIAM B. SOMA	CHECKED BY	WILLIAM B. SOMA	DATE REVISION
GINO ORLANDO	DESIGNED BY	WILLIAM B. SOMA	REVISION BY

Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
04	SCI	101	R28.4/R28.9	191 345

Licensed Landscape Architect
 March 6, 2008
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA AND ITS OFFICERS
 AND AGENCIES SHALL NOT BE RESPONSIBLE FOR
 THE CONSTRUCTION OF THIS PLAN SHEET.

City of San Jose
 Department of Transportation
 1570 Oakland Road
 San Jose, CA 95131



BUBBLER IN DEEP WATERING PIPE FOR MEDIAN AND TREE WELLS

IRRIGATION DETAILS
 NO SCALE

ID-5

04	SCI	101	R28.4/R28.9	192	345
March 6, 2006 PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95131					

CITY OF SAN JOSE IRRIGATION LEGEND

**CALSENSE IRRIGATION CONTROLLER CS3000
MAJOR COMPONENT LIST FOR TYPE 2 PROJECTS**

CONTROL MODEL #1: CS3000-CS3-2W-S1-CS3-GR-GR-STUBBY-COMM-5YR-SSE-R
 FLOW SENSOR: FM-2B
 MISCELLANEOUS: CS-2W-2ST-CS-2W-POC-KEY-1

REQ'D FOR PROJECT	YES		NO		PART NUMBER
	YES	NO	YES	NO	
					CONTROLLER AND OPTIONS
X					MODEL CS 3000 128 TWO-WIRE STATIONS, ET BASED IRRIGATION, SSE MOUNT, ONE (1) STUBBY ANTENNA HOLE, INCLUDES TRANSIENT PROTECTION AND FIELD REPLACEABLE MODULES, DOES NOT INCLUDE ANTENNAS.
X					CONTROLLER
X					FOR GPRS, SPREAD SPECTRUM, AND WIRELESS ETHERNET COMMUNICATION OPTIONS. 30dbi, OPERATES FROM 821-846 MHz AND 1850-195
X					CELLULAR PHONE COMMUNICATION CAPABILITY AND 5 YEAR SERVICE PLAN
X					STAINLESS STEEL PEDESTAL ENCLOSURE WITH FLIP-TOP AND PRE-ASSEMBLED ASSOCIATED COMPONENTS INCLUDING DOME ANTENNA FOR LOCAL RADIO AND REMOTE UNIT OPERATION
					CS3000 MISCELLANEOUS OPTIONS
X					CS3000 TWO-WIRE DECODER, TWO STATION OUTPUT
X					CS3000 TWO WIRE DECODER, POINT OF CONNECTION, ONE (1) MASTER VALVE AND ONE (1) FLOW METER
X					SET OF 10 KETS FOR ET2000e CONTROLLER ENCLOSURE, KEYS TO CITY OF SAN JOSE STANDARD
					FLOW SENSORS
X					1" BRASS TEE MOUNTED FLOW SENSOR, 3-50 GPM, 400 PSI MAXIMUM
X					1-1/4" BRASS TEE MOUNTED FLOW SENSOR, 5-81 GPM, 400 PSI MAXIMUM
X					1-1/2" PVC TEE MOUNTED FLOW SENSOR, 7-105 GPM, 100 PSI MAXIMUM
X					1-1/2" BRASS TEE MOUNTED FLOW SENSOR, 7-105 GPM, 400 PSI MAXIMUM
X					2" BRASS TEE MOUNTED FLOW SENSOR, 11-166 GPM, 200 PSI MAXIMUM
X					2" PVC TEE MOUNTED FLOW SENSOR, 11-166 GPM, 100 PSI MAXIMUM
X					3" PVC TEE MOUNTED FLOW SENSOR, 24-363 GPM, 100 PSI MAXIMUM
X					INSERTION FLOW METER, SCREWS INTO 2" NPT PIPE SADDLE, FOR 4" AND LARGER PIPE, SADDLE NOT INCLUDED.
X					FLOW SENSOR CONDUIT #14x1/2" O.D. 1/2" NPT FERRULE AND FEEDER CABLE (UP/JIN CONDUIT WIRE), SOLID, COPPER
X					SEE LANDSCAPE SPECIFICATION

NOTES:
 1. THIS PLAN IS APPLIED FOR THIS PROJECT ONLY AND HAS BEEN MODIFIED FROM CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION CAD DETAIL.
 2. THE INFORMATION ON THIS SHEET APPLIES ONLY TO IRRIGATION SYSTEMS SHOWN ON IP-1, IP-2, IP-3, AND IP-4

CONTROLLER NOTES:
 1. IRRIGATION CONTROLLER ENCLOSURE AND ASSOCIATED EQUIPMENT SHALL BE MANUFACTURED AND ASSEMBLED BY CALSENSE. CONTACT CALSENSE LOCAL REPRESENTATIVE JENNIFER GREGG AT (925) 325-9368 OR 800-572-8608. SUPPLIED BY JOHN DEERE LANDSCAPES AT 408-295-3376, OR EWING IRRIGATION AT 408-436-8848.
 2. FURNISH, INSTALL, AND TEST COMPLETE CALSENSE CS3000 IRRIGATION CONTROLLER CONSISTING OF CONTROLLER(S), ENCLOSURE, TERMINAL INTERFACE BOARDS, 120 VOLT GFI OUTLET, ON/OFF SWITCH, CABLING, TRANSFORMERS, SURGE ARRESTERS, AND ALL OTHER ITEMS SPECIFIED.
 3. CONTROLLER SHALL BE INSTALLED AT LOCATION AS SHOWN ON THE IRRIGATION PLAN. REFER TO THE ELECTRICAL PLANS FOR THE POINT OF CONNECTION TO THE POWER SOURCE AND TELEPHONE LINE.
 4. ALL CABLES AND CONDUCTORS MUST BE INSTALLED IN CONDUIT AND SEALED PER NOTE 5. EXTEND CONDUITS ALONG WITH APPROPRIATE CABLES/CONDUCTORS TO LOCATIONS SHOWN ON PLANS. SEE IRRIGATION DETAILS FOR INSTALLATION OF REMOTE CONTROL WIRE IN CONDUIT.
 5. CONTRACTOR SHALL SEAL OFF ENDS OF CONDUIT AFTER INSTALLING CONDUCTORS/WIRES WITH DUCT SEAL, AND CAP ENDS OF ALL SPARE CONDUITS. EXTEND SPARE CONDUITS 24" BEYOND FOUNDATION AND CAP WITH BRASS CAP.
 6. SEE IRRIGATION PLAN AND ELECTRICAL PLAN FOR ORIENTATION AND ROUTING OF CONDUITS.
 7. ALL CONDUCTORS AND WIRING SHALL BE NEATLY ARRANGED AND ORDERED SO THAT CLEAR ACCESS TO ALL EQUIPMENT IS MAINTAINED.
 8. PROVIDE ENGRAVED SCREW-ON PHENOLIC NAMEPLATE ON DEVICE BOX INDICATING LOCATION AND NAME OF ORIGINATING ELECTRICAL PANEL AND BRANCH CIRCUIT IDENTIFICATION NUMBER.
 9. CONTRACTOR SHALL LABEL EACH IRRIGATION WIRE WITH IDENTIFICATION OF DEVICE CONTROLLED. DETAILS SHOWN ON THIS SHEET ARE TO BE DUPLICATED FOR BOTH CONTROLLERS.
 10. PROVIDE SPARE REMOTE CONTROL VALVE WIRES FROM CONTROLLER TO #6 PULLBOX. PROVIDE SPARE WIRES IN A QUANTITY TO ALLOW FOR THE FUTURE IMPLEMENTATION OF FULL STATION CAPACITY. CAP SPARE WIRES WITH WIRE NUTS WRAPPED WITH VINYL ELECTRICAL TAPE. LABEL "SPARE." SEE IRRIGATION SPECIFICATIONS.
 11. CONTROLLER ASSEMBLY TO BE COVERED BY CALSENSE'S 5 YEAR WARRANTY.
 12. CONTRACTOR SHALL PROVIDE RECYCLED WATER WARNING DECALS, TAGS AND SIGNS FOR IRRIGATION SYSTEMS CONNECTED TO RECYCLED WATER OR AS OTHERWISE INDICATED ON PLANS.
 13. FURNISH, INSTALL, AND TEST COMPLETE CALSENSE ET2000e IRRIGATION CONTROLLER ASSEMBLY CONSISTING OF CONTROLLER(S), ENCLOSURE, TERMINAL INTERFACE BOARD, 120 VOLT GFI OUTLET, ON/OFF SWITCH, CABLING, TRANSFORMERS, SURGE ARRESTERS, AND ALL OTHER ITEMS SPECIFIED. CONTRACTOR TO PROVIDE CONCRETE FOOTING.
 14. ALSO SEE SHEET L12-0 FOR OTHER IRRIGATION SYSTEM COMPONENTS AND MATERIALS REQUIRED FOR PROJECT.
 15. WHERE RADIO COMMUNICATION EQUIPMENT IS SPECIFIED PROVIDE LOW POWER RADIO UNITS COMPLIANT WITH THE 12.5 KHZ NARROWBAND STANDARDS. THE FOLLOWING CHANNELS ON THE UHF FREQUENCY BAND ARE LICENSED FOR USE IN THE CITY OF SAN JOSE: 453.8875 MHZ AND 458.8875MHZ.
 16. UPON COMPLETION OF INSTALLATION, CONTACT CALSENSE REPRESENTATIVE JENNIFER GREGG AT (925) 325-9368 TO PERFORM A SITE VISIT TO VERIFY THE SYSTEM HAS BEEN INSTALLED PER MANUFACTURER'S INSTRUCTIONS. THE SYSTEM WILL NOT BE ACCEPTED UNTIL THE REPRESENTATIVE HAS INDICATED THAT THE SYSTEM HAS BEEN INSTALLED CORRECTLY AND IS OPERATING SATISFACTORILY. CONTRACTOR TO PROVIDE PROGRAMMING OF CONTROLLER, WITH TRAINING (AT NO CHARGE) FROM CALSENSE.
 17. CONTRACTOR SHALL PROVIDE TEN KEYS FOR THE CONTROLLER ENCLOSURE. IMMEDIATELY PRIOR TO PROJECT ACCEPTANCE, THE CONTRACTOR SHALL TURN THE KEYS OVER TO THE ENGINEER.
 18. ALSO SEE IRRIGATION SPECIFICATIONS AND DRAWINGS FOR OTHER IRRIGATION SYSTEM COMPONENTS AND MATERIALS REQUIRED FOR PROJECT.
 19. CONTRACTOR TO PROGRAM CONTROLLERS WITH DESCRIPTION OF WHICH VALVES OPERATE WHICH AREAS, UP TO FORTY CHARACTERS IN LENGTH; I.E., LAWNS, SHRUBS, GROUNDCOVERS AND WHICH AREAS.

DESIGN CRITERIA FOR STANDARD IRRIGATION SYSTEM
 1. ONE CONTROLLER (48 STATIONS MAXIMUM), MASTER VALVE AND FLOW SENSOR PER WATER METER.
 2. MASTER VALVE MUST BE BRASS OR BRONZE BODY CONSTRUCTION, WITH STAINLESS STEEL STEM, NUT AND SPRING, HAVE AN OPERATING PRESSURE OF AT LEAST 200 PSI, BE LINE SIZE, AND NORMALLY OPEN.
 3. FLOW SENSOR TO BE CALSENSE MODEL FM.
 4. IRRIGATION MAINLINE SHALL NOT BE TRENCHED UNDER MAJOR INTERSECTIONS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOWA	DATE REVISION	REVISION BY
				GINO ORLANDO
				WILLIAM B. SOWA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	GINO ORLANDO	WILLIAM B. SOMA
DESIGNED BY	CHECKED BY	DATE REVISED	REVISOR

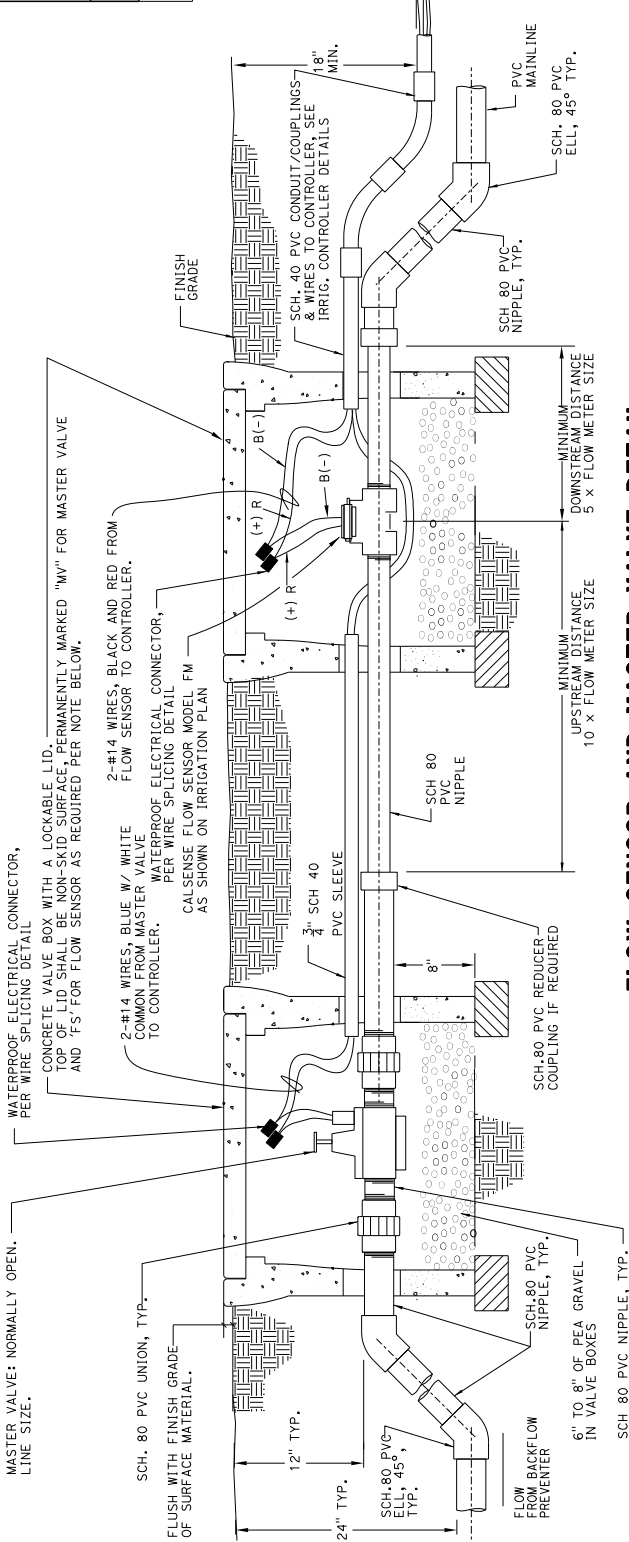
DIST#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
04	SCI	101	R28.4/R28.9	193 345

LICENSED LANDSCAPE ARCHITECT

March 6, 2006
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET.

CITY OF SAN JOSE
DEPARTMENT OF TRANSPORTATION
200 E. SANTA CLARA STREET
SAN JOSE, CA 95131



FLOW SENSOR AND MASTER VALVE DETAIL

FLOW SENSOR AND MASTER VALVE NOTES

1. THE MASTER VALVE SHALL BE INSTALLED DOWNSTREAM FROM THE WATER METER AND BACKFLOW PREVENTION DEVICE. THE FLOW SENSOR SHALL BE INSTALLED DOWNSTREAM FROM THE MASTER VALVE. NOTE THE INTENDED DIRECTION OF THE FLOW AS INDICATED BY AN ARROW ON TOP OF THE FLOW SENSOR. THERE MUST BE FREE, UNRESTRICTED PIPE OF THE SAME SIZE AS THE FLOW SENSOR, WITH A LENGTH OF AT LEAST 10 TIMES THE FLOW SENSOR SIZE UPSTREAM, AND 5 TIMES THE FLOW SIZE DOWNSTREAM OF THE FLOW SENSOR TEE. THIS SHOULD APPLY TO DISTANCE FROM ANY VALVE, FITTING, SENSOR METER, OR BACKFLOW DEVICE.
2. THE FLOW SENSOR AND MASTER VALVE SHALL BE EASILY ACCESSIBLE, HOUSED IN A RECTANGULAR VALVE BOX. TOP OF VALVE BOXES SHALL BE MARKED 'FS' FOR FLOW SENSOR AND 'MV' FOR MASTER VALVE. THERE SHALL BE 6" TO 8" OF PEA GRAVEL BENEATH THE FLOW METER IN THE VALVE BOX.
3. THE LENGTH OF #14 AWG WIRE CONNECTING THE FLOW SENSOR AND MASTER VALVE TO THE IRRIGATION CONTROLLER SHALL NOT EXCEED 2,000 FEET.
4. WIRES FROM THE FLOW SENSOR TO THE IRRIGATION CONTROLLER SHALL CONSIST OF ONE (1) BLACK AND ONE (1) RED STANDARD #14 AWG IRRIGATION WIRE INSTALLED IN GREY PVC ELECTRICAL CONDUIT. THE FLOW SENSOR HAS TWO WIRE LEADS: A BLACK AND A RED. AT THE CONTROLLER, THE BLACK WIRE IN THE BLACK WIRE HARNESS SHALL BE CONNECTED TO THE BLACK SENSOR WIRE, AND THE RED WIRE IN THE BLACK WIRE HARNESS SHALL BE CONNECTED TO THE RED FLOW SENSOR WIRE. WIRES FROM THE MASTER VALVE TO THE IRRIGATION CONTROLLER SHALL CONSIST OF ONE (1) BLUE AND ONE (1) WHITE STANDARD #14 AWG IRRIGATION WIRE INSTALLED IN THE SAME GREY PVC ELECTRICAL CONDUIT AS THE FLOW SENSOR WIRES. THE MASTER VALVE HAS TWO WIRE LEADS, A WHITE AND A BLUE, AT THE CONTROLLER. THE WHITE WIRE IN THE BLACK WIRE HARNESS SHALL BE CONNECTED TO THE WHITE MASTER VALVE WIRE, AND THE BLUE WIRE IN THE BLACK WIRE HARNESS SHALL BE CONNECTED TO THE BLUE MASTER VALVE WIRE.
5. THE CALSENSE FLOW SENSOR OPERATES AT 9 VOLTS DC. THE FLOW SENSOR WIRES SHALL BE SEPARATED FROM OTHER CONTROL WIRES WHEN PULLED UP AT THE IRRIGATION CONTROLLER SITE. 24 VAC SHALL NOT BE USED TO TEST FIELD WIRES WHEN DETERMINING PROPER SEQUENCING, AND IS APPLIED TO THE FLOW SENSOR WIRES. THIS WOULD RESULT IN THE SENSING UNIT IN THE FLOW SENSOR TO BE DAMAGED.
6. ALL ELECTRICAL CONNECTIONS SHALL BE TIGHT AND DRY. ANY WATER LEAKING INTO A CONNECTION WILL CAUSE FLOW METER PROBLEMS. ADDITIONALLY, THERE SHALL NOT BE ANY BURIED SPLICES BETWEEN THE FLOW SENSOR AND THE IRRIGATION CONTROLLER. USE ONLY CALSENSE RECOMMENDED ELECTRICAL CONNECTORS.

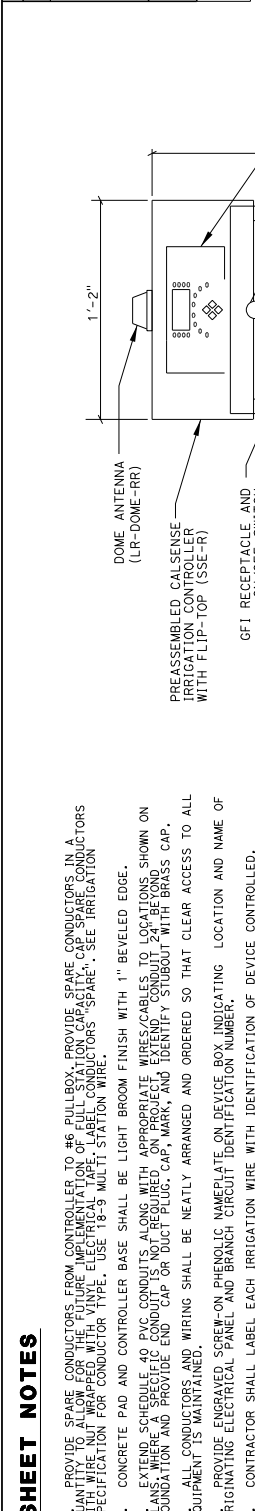
ABBREVIATIONS

- A.B. AGGREGATE BASE
- APP. APPROXIMATELY
- FIN. FINISH
- MIN. MINIMUM
- MAX. MAXIMUM
- PCC PORTLAND CEMENT CONCRETE
- SCH. SCHEDULE
- TYP. TYPICAL
- VAC VOLTS AC

NOTES:
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IRRIGATION DETAILS (CITY OF SAN JOSE)
NO SCALE

DATE	04	COUNTY	SCI	ROUTE	101	POST MILES	R28.4/R28.9	SHEET TOTAL	194	TOTAL SHEETS	345
LICENSED LANDSCAPE ARCHITECT March 6, 2006 PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR COPIES OF THIS PLAN SHEET.											
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95131											



1. PROVIDE SPARE CONDUCTORS FROM CONTROLLER TO #6 PULLBOX. PROVIDE SPARE CONDUCTORS IN A PULLBOX WITH WIRE NUMBERED WITH VINYL ELECTRICAL LABELS. PROVIDE SPARE CONDUCTORS SPECIFIC FOR CONDUCTOR TYPE. USE 18-9 MULTI STATION WIRE.

2. CONCRETE PAD AND CONTROLLER BASE SHALL BE LIGHT BROOM FINISH WITH 1" BEVELED EDGE.

3. EXTEND SCHEDULE 40 PVC CONDUITS ALONG WITH APPROPRIATE WIRES/CABLES TO LOCATIONS SHOWN ON PLANS. WHERE A SPECIFIC CONDUIT IS NOT REQUIRED ON PROJECT, EXTEND CONDUIT 24" BEYOND BRASS CAP. FOUNDATION AND PROVIDE END CAP OR DUCT PLUG, CAP, MARK, AND IDENTIFY STUBOUT WITH BRASS CAP.

4. ALL CONDUCTORS AND WIRING SHALL BE NEATLY ARRANGED AND ORDERED SO THAT CLEAR ACCESS TO ALL EQUIPMENT IS MAINTAINED.

5. PROVIDE ENGRAVED SCREW-ON PHENOLIC NAMEPLATE ON DEVICE BOX INDICATING LOCATION AND NAME OF ORIGINATING ELECTRICAL PANEL AND BRANCH CIRCUIT IDENTIFICATION NUMBER.

6. CONTRACTOR SHALL LABEL EACH IRRIGATION WIRE WITH IDENTIFICATION OF DEVICE CONTROLLED.

7. CONTRACTOR SHALL PROVIDE AND INSTALL A CALSEVE IRRIGATION CONTROLLER (SSE-R) AND A DOME ANTENNA (LR-DOME-RR) TO ENSURE OPERATIONAL INTEGRITY.

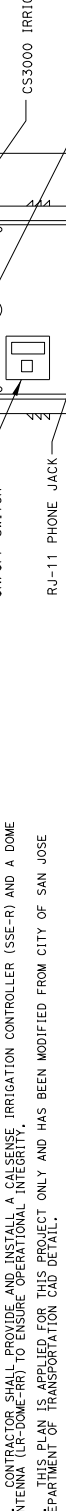
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9. DETAIL SHOWN ON THIS SHEET ONLY APPLIES TO STREET TREE PLANTING AND IRRIGATION SYSTEM IN MEDIAN ON SHEETS TP-110 JP-5.

10. SEE SHEET ID-06 FOR CONTROLLER NOTES.

ABBREVIATIONS

A.B. APPROXIMATELY
 APP. APPROXIMATELY
 MIN. MINIMUM
 MAX. MAXIMUM
 PCC PORTLAND CEMENT CONCRETE
 PVC POLYVINYL CHLORIDE
 TYP. TYPICAL
 VAC VACUUM



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IRRIGATION CONTROLLER FRONT SECTION

NOT TO SCALE



IRRIGATION CONTROLLER SIDE SECTION

NOT TO SCALE

IRRIGATION DETAILS (CITY OF SAN JOSE)

NO SCALE

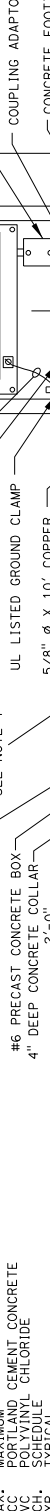


IRRIGATION DETAILS (CITY OF SAN JOSE)

NO SCALE

IRRIGATION CONTROLLER FRONT SECTION

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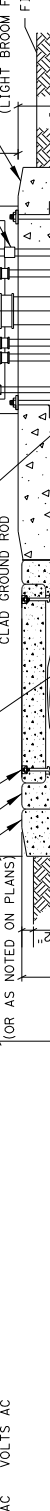


IRRIGATION CONTROLLER FRONT SECTION

NOT TO SCALE

IRRIGATION CONTROLLER SIDE SECTION

NOT TO SCALE



IRRIGATION CONTROLLER SIDE SECTION

NOT TO SCALE

IRRIGATION CONTROLLER FRONT SECTION

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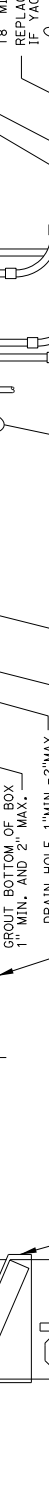


IRRIGATION CONTROLLER FRONT SECTION

NOT TO SCALE

IRRIGATION CONTROLLER SIDE SECTION

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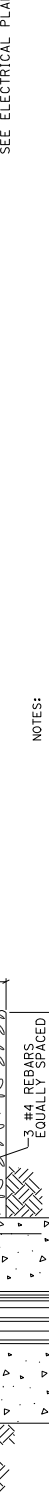


IRRIGATION CONTROLLER SIDE SECTION

NOT TO SCALE

IRRIGATION CONTROLLER FRONT SECTION

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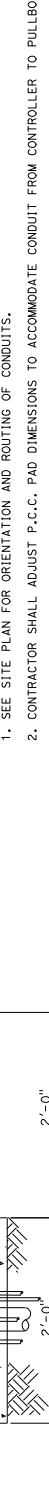


IRRIGATION CONTROLLER FRONT SECTION

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IRRIGATION CONTROLLER SIDE SECTION

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IRRIGATION CONTROLLER FRONT SECTION

NOT TO SCALE

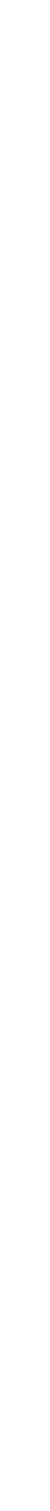


IRRIGATION CONTROLLER FRONT SECTION

NOT TO SCALE

IRRIGATION CONTROLLER SIDE SECTION

NOT TO SCALE



IRRIGATION CONTROLLER SIDE SECTION

NOT TO SCALE

IRRIGATION CONTROLLER FRONT SECTION

NOT TO SCALE



IRRIGATION CONTROLLER FRONT SECTION

NOT TO SCALE

Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
04	SCI	101	R28.4/R28.9	196 345

Licensed Landscape Architect
 March 6, 2006
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA AND ITS OFFICERS
 AND AGENCIES SHALL NOT BE RESPONSIBLE FOR
 THE CONSTRUCTION OF THIS PLAN SHEET.

CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 1570 OAKLAND ROAD
 SAN JOSE, CA 95131


IRRIGATION QUANTITIES (LATERAL SUPPLY SIDE OF CONTROL VALVE)

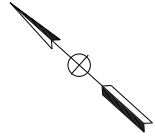
CONTROLLER LETTER	VALVE NUMBER	PLASTIC PIPE (SUPPLY LINE)				SPRINKLER ASSEMBLY		
		1"	1-1/4"	1-1/2"	2"	RISER ASSEMBLY	TREE WELL SPRINKLER ASSEMBLY	
A	1	280	80	-	-	-	EA	30
	2	1790	255	10	20	204	-	-
	3	350	-	-	-	-	-	22
	4	500	25	5	320	160	-	-
	5	840	15	5	5	131	-	-
	6	80	-	-	-	-	-	6
	7	390	-	-	-	-	36	-
SUBTOTAL A		4230	375	30	335	531	-	58

CONTROLLER LETTER	VALVE NUMBER	PLASTIC PIPE (SUPPLY LINE)				SPRINKLER ASSEMBLY		
		1"	1-1/4"	1-1/2"	2"	RISER ASSEMBLY	TREE WELL SPRINKLER ASSEMBLY	
B	1	75	-	-	-	-	EA	4
	2	570	40	-	65	165	-	-
	3	200	-	-	-	20	-	-
	4	695	90	-	20	197	-	-
	5	890	10	5	-	88	-	-
	6	250	-	-	-	-	-	10
	7	175	30	-	-	62	-	-
	8	440	145	90	5	195	-	-
	9	300	180	45	35	162	-	-
	10	935	-	-	5	89	-	-
	11	1340	20	150	-	134	-	-
	12	1045	10	20	-	104	-	-
	13	650	-	-	-	-	-	22
	14	265	95	-	-	-	-	28
	15	770	-	10	-	110	-	-
SUBTOTAL B		8600	620	325	125	1326	-	64

CONTROLLER LETTER	VALVE NUMBER	PLASTIC PIPE (SUPPLY LINE)				SPRINKLER ASSEMBLY		
		1"	1-1/4"	1-1/2"	2"	RISER ASSEMBLY	TREE WELL SPRINKLER ASSEMBLY	
C	1	630	-	-	-	-	EA	24
	2	710	15	-	-	52	-	34
	3	560	85	-	-	-	-	6
	4	90	-	-	-	-	-	-
SUBTOTAL A		4230	375	30	335	531	-	58
SUBTOTAL B		8600	620	325	125	1326	-	64
SUBTOTAL C		1990	100	-	-	52	-	64
TOTAL		14820	1095	355	460	1909	-	186

IRRIGATION QUANTITIES IQ-1

Dist	County	Route	Post Miles	SHEET TOTAL
04	SCI	101	R28.4/R28.9	200 345
LICENSED LANDSCAPE ARCHITECT 				
March 6, 2008 PLANS APPROVAL DATE THE STATE OF CALIFORNIA AND ITS OFFICERS AND AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY PORTION OF THIS PLAN SHEET.				
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95113				



NOTES:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 2. EXISTING AND PROPOSED TREE LOCATIONS ARE SAFE
 FOR SIGHT DISTANCE AND RECOVERY SETBACKS.



FOR NOTES, ABBREVIATIONS AND
 LEGEND, SEE SHEET PL-1

PLANTING PLAN
 SCALE: 1" = 20'

PP-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOWA	CHECKED BY	WILLIAM B. SOWA	DATE REVISED	
			DESIGNED BY	GINO ORLANDO	REVISED BY	

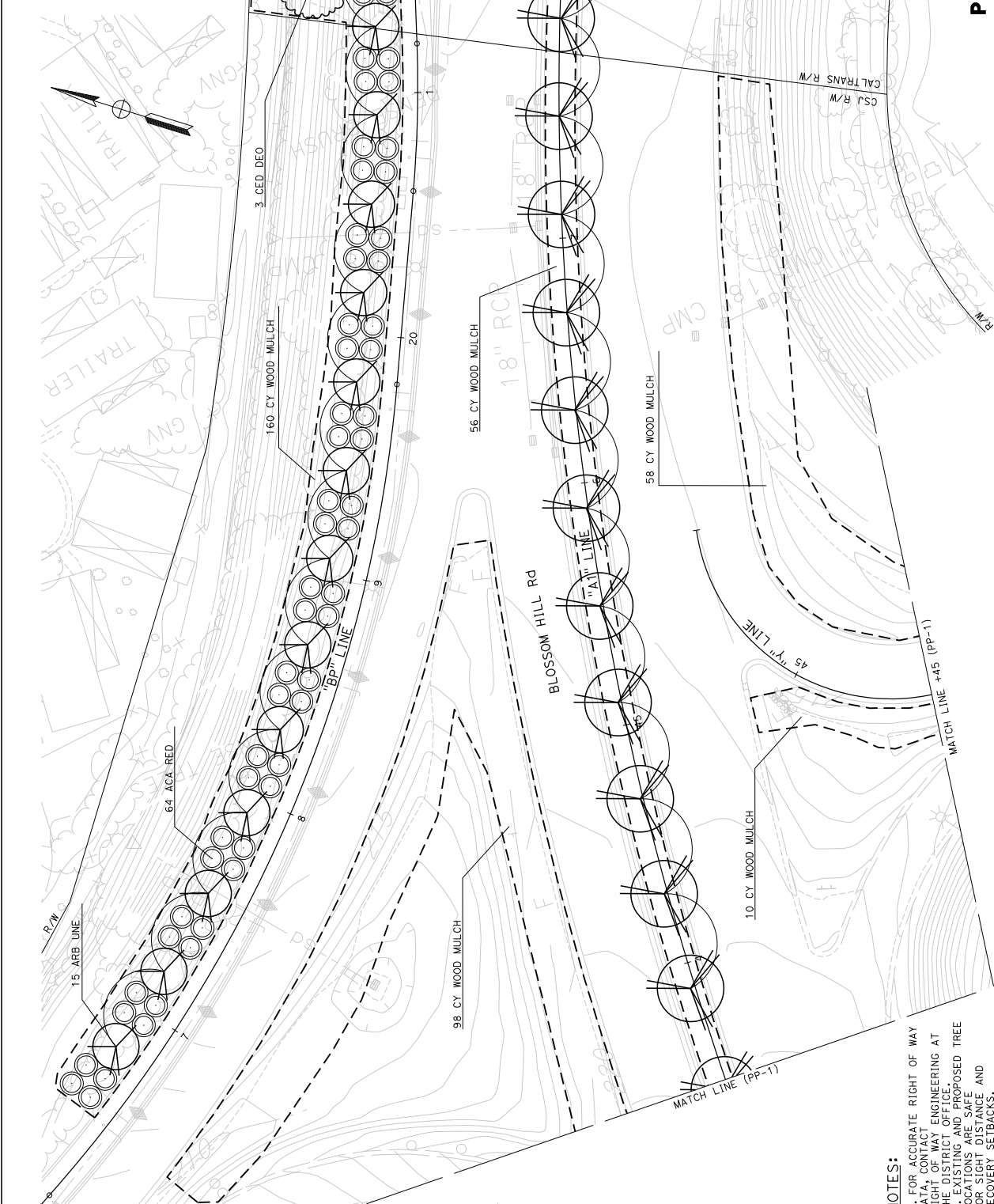
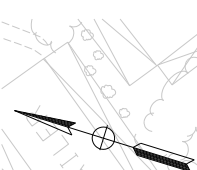
Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
04	SCI	101	R28.4/R28.9	201 345

LICENSED LANDSCAPE ARCHITECT

March 6, 2020
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA AND ITS OFFICERS
AND AGENCIES SHALL NOT BE RESPONSIBLE FOR
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COPIES OF THIS PLAN SHEET.

March 6, 2020
CITY OF SAN JOSE
DEPARTMENT OF TRANSPORTATION
200 E. SANTA CLARA STREET
SAN JOSE, CA 95113



NOTES:

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PLANTING PLAN
SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET PL-1

APPROVED FOR PLANTING WORK ONLY

RELATIVE BORDER SCALE
15 IN INCHES

UNIT 0716

PROJECT NUMBER & PHASE

0416000224

PP-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	CHECKED BY	WILLIAM B. SOMA	DATE REVISED BY	GINO ORLANDO

BORDER LAST REVISED 10/17/2018

USERNAME => wbsoma
DON FILE => 460506u002.dgn

APPROVED FOR PLANTING WORK ONLY

RELATIVE BORDER SCALE
15 IN INCHES

UNIT 0716

PROJECT NUMBER & PHASE

0416000224

PP-2

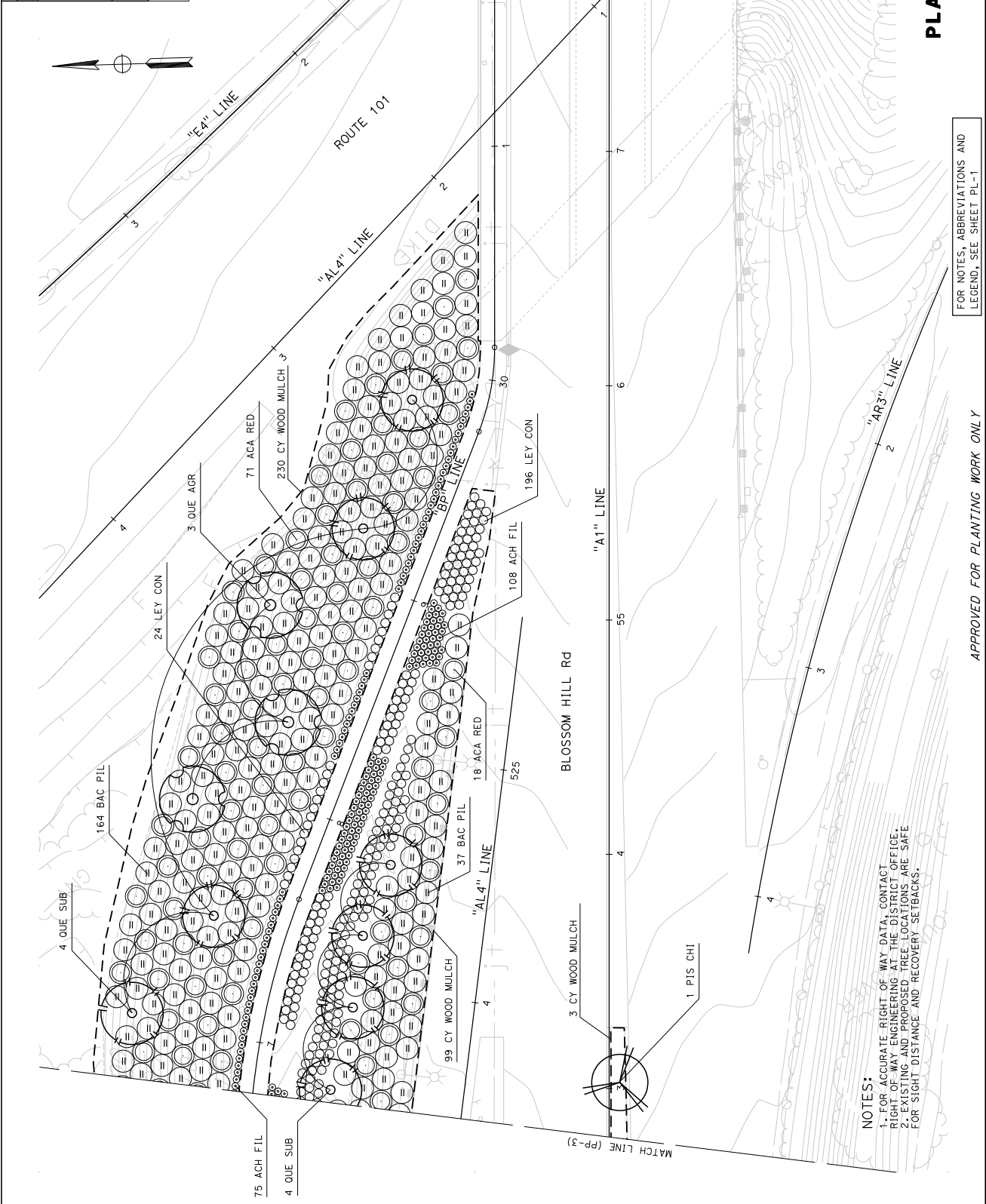
LAST REVISION

DATE PLOTTED => 06-MAR-2020

TIME PLOTTED => 13:32

10-1-17-20

04	SCI	101	R28.4/R28.9	203	345
COUNTY		ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS	
LICENSED LANDSCAPE ARCHITECT March 6, 2008 PLANS APPROVAL DATE THE STATE OF CALIFORNIA AND ITS OFFICERS AND AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THESE PLANS OR THE RESULTS OF THEIR USE.					
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 1570 OAKLAND ROAD SAN JOSE, CA 95131					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	WILLIAM B. SOMA	DATE REVISED	
			GINO ORLANDO	REVISED BY	

NOTES:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 2. EXISTING AND PROPOSED TREE LOCATIONS ARE SHOWN FOR SIGHT DISTANCE AND RECOVERY SETBACKS.

PLANTING PLAN
 SCALE: 1" = 20'

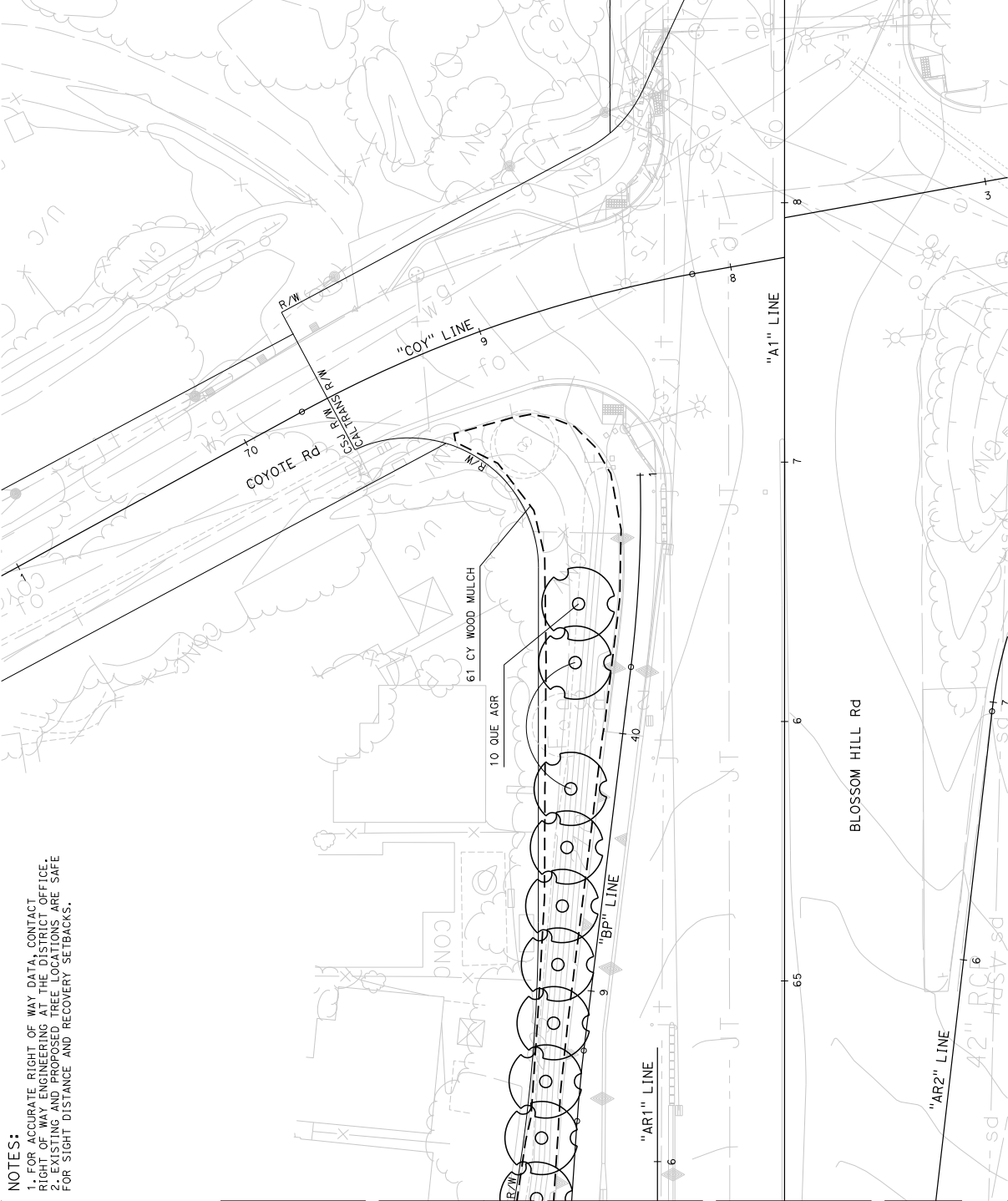
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET PL-1

APPROVED FOR PLANTING WORK ONLY

DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS
04	SCI	101	R28.4/R28.9	205 345

LICENSED LANDSCAPE ARCHITECT
 March 6, 2008
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CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 95113



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PLANTING PLAN
 SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND
 LEGEND, SEE SHEET PL-1

APPROVED FOR PLANTING WORK ONLY
 RELATIVE BORDER SCALE
 15 IN INCHES

UNIT 0716
 PROJECT NUMBER & PHASE
 0416000224

PP-6
 LAST REVISION
 DATE PLOTTED => 06-MAR-2020
 TIME PLOTTED => 13:32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	WILLIAM B. SOMA	DATE REVISED	REVISOR

BORDER LAST REVISED 10/17/2018
 USERNAME => wbsoma
 DON FILE => 460500u006.dgn

Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
04	SCI	101	R28.4/R28.9	207 345

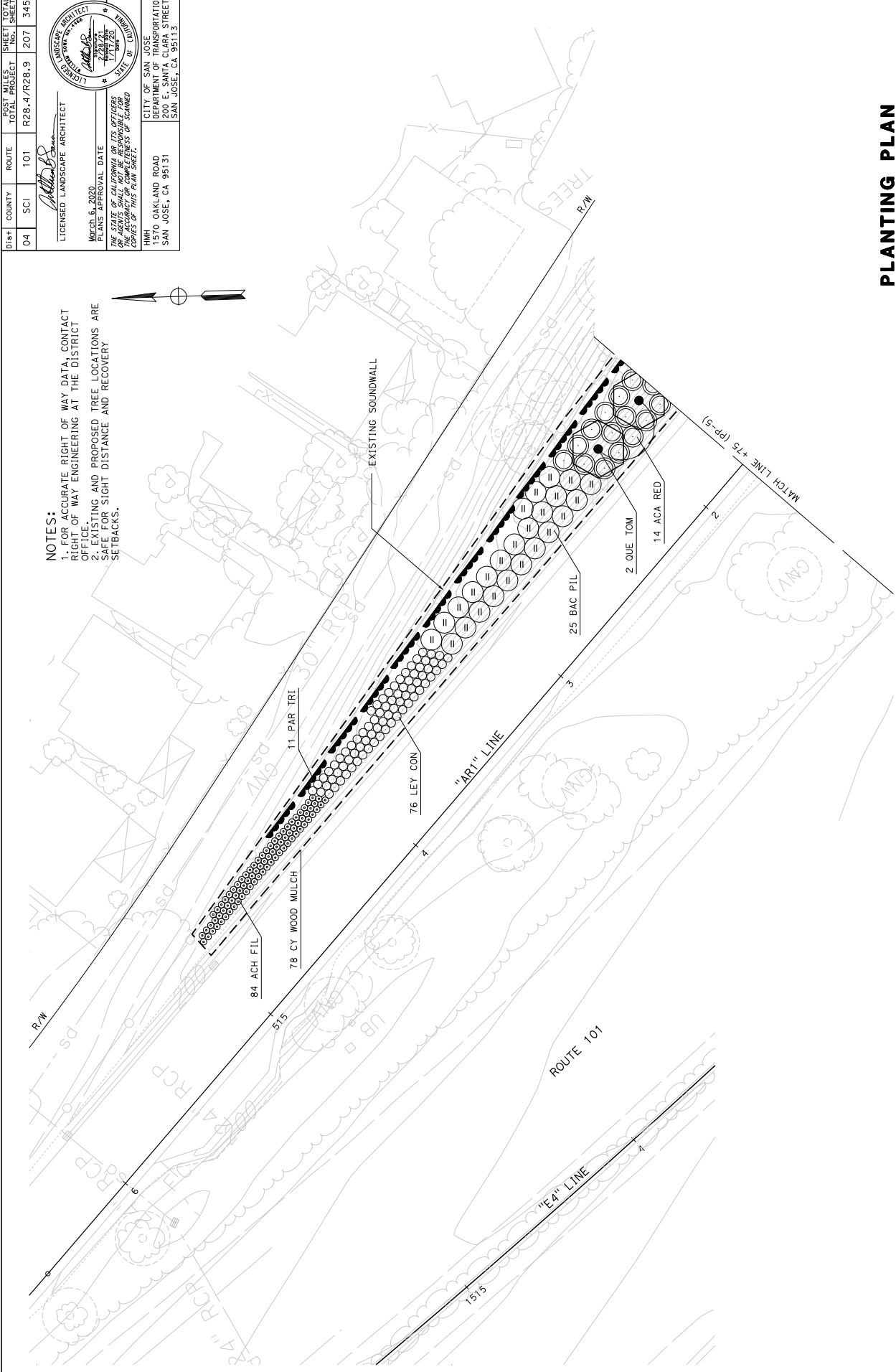
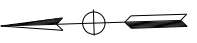
LICENSED LANDSCAPE ARCHITECT

March 6, 2008
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA AND ITS OFFICERS
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 COPIES OF THIS PLAN SHEET.

WILLIAM B. SOMA
 LICENSED LANDSCAPE ARCHITECT
 No. 17897
 State of California
 City of San Jose

CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 95113

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PLANTING PLAN
 SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET PL-1

APPROVED FOR PLANTING WORK ONLY

RELATIVE BORDER SCALE 15 IN INCHES

UNIT 0716

PROJECT NUMBER & PHASE

0416000224

PP-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	CHECKED BY	WILLIAM B. SOMA	DATE REVISED
			DESIGNED BY	GINO ORLANDO	REVISED BY

BORDER LAST REVISED 10/17/2018

USERNAME => wbsoma
 DON FILE => 460500a008.dgn

APPROVED FOR PLANTING WORK ONLY

RELATIVE BORDER SCALE 15 IN INCHES

UNIT 0716

PROJECT NUMBER & PHASE

0416000224

PP-8

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RELATIVE BORDER SCALE 15 IN INCHES


UNIT 0716

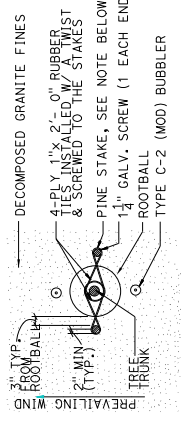
PROJECT NUMBER & PHASE

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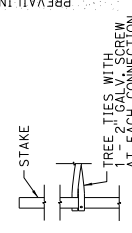
PP-8

BORDER LAST REVISED 10/17/2018

DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
04	SCI	101	R28.4/R28.9	208 345
				
LICENSED LANDSCAPE ARCHITECT March 6, 2006 PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION OR NON-CONSTRUCTION OF THIS PLAN SHEET.				
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95131			CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95113	

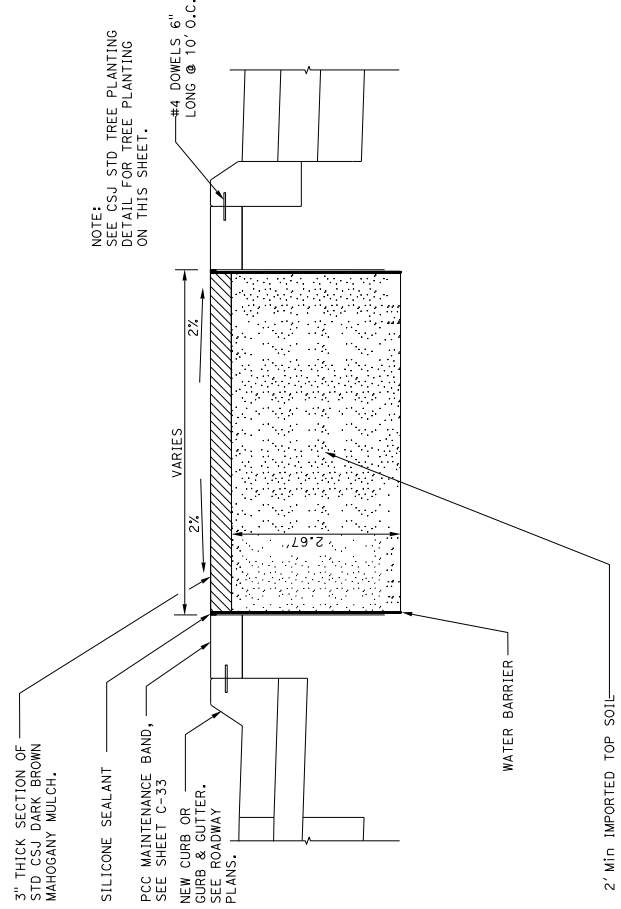


* TREE STAKES & TIES TO BE INSTALLED PERPENDICULAR TO DIRECTION OF PREVAILING WIND.



DETAIL

NOTE:
SEE CSJ STD TREE PLANTING
DETAIL FOR TREE PLANTING
ON THIS SHEET.



2' Min IMPORTED TOP SOIL

TYPICAL MEDIAN BARK MULCH (SECTION) AT TREE PLANTING

- NOTES:
1. INSTALL ROOT BARRIER PER SPECIFICATIONS. INSTALL 1/2" MAXIMUM ABOVE FINISH GRADE AND COVER WITH SPECIFIED DECOMPOSED GRANITE.
 2. THE HEIGHT OF THE STAKES SHALL NOT INTERFERE WITH TREE BRANCHES IN ANY WAY. TRIM THE TOPS OF STAKES AS DIRECTED BY THE ENGINEER.
 3. ROOTBALL TO BE THOROUGHLY WATERED IMMEDIATELY AFTER PLANTING, AND KEPT MOIST AS REQUIRED TO ENSURE PLANT HEALTH DURING CONSTRUCTION AND MAINTENANCE PERIODS.

TREE PLANTING & STAKING FOR MEDIANS

PLANTING DETAILS
NO SCALE

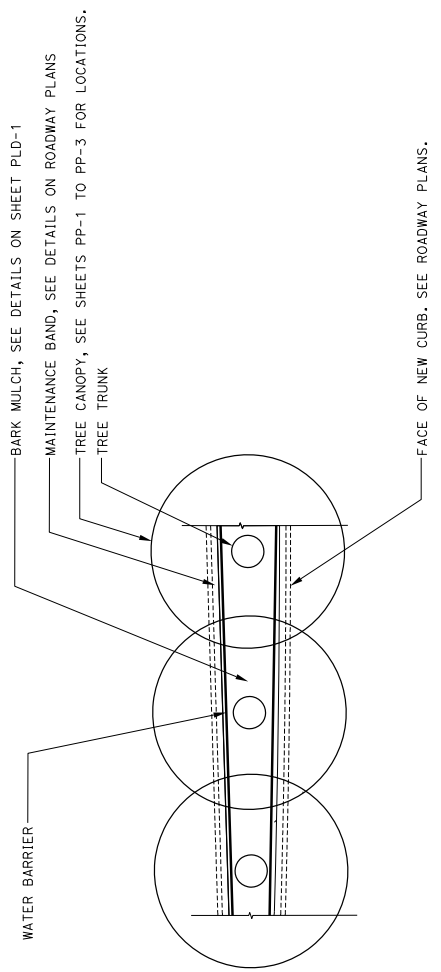
PLD-1

Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
04	SCI	101	R28.4/R28.9	209 345

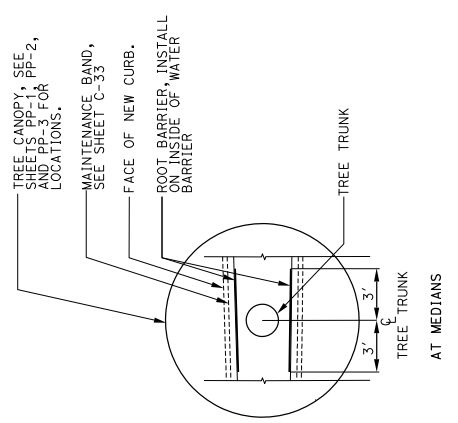
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CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 95131

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SENIOR LANDSCAPE ARCHITECT	WILLIAM B. SOMA	CHECKED BY	WILLIAM B. SOMA	DATE REVISED	
		GINO ORLANDO	DESIGNED BY		REVISED BY	



TYPICAL PLANTED MEDIAN (PLAN) AT ROADWAY EXCAVATION



ROOT BARRIER

PLANTING DETAILS

NO SCALE

PLD-2

04	SCI	101	R28.4/R28.9	211	345
COUNTY		ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS	
03-05-20 REGISTERED CIVIL ENGINEER DATE MARCH 6, 2020 PLANS APPROVAL DATE MEGAN ANN CROMAN No. 85735 Exp. 3/30/20 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER					
THE STATE OF CALIFORNIA AND ITS OFFICERS AND AGENCIES SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION OF THIS PLAN SHEET. THE SUCCESS OR FAILURE OF THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CLIENT.					
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95131					

EROSION CONTROL TYPE 1

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
		DESCRIPTION	TYPE		
STEP 1	COMPOST	COMPOST	FINE	270 CY/ACRE	
STEP 2	FIBER ROLLS	FIBER ROLLS	8" TO 10" Dia	AS SHOWN	TYPE 2 FIBER ROLL INSTALLATION
STEP 3	HYDRAULIC MULCH	FIBER	50% WOOD 50% CELLULOSE	400 CY/ACRE	
		TACIFIER	GUAR	125 LB/ACRE	

EROSION CONTROL TYPE 2

SEQUENCE	ITEM	MATERIAL DESCRIPTION	APPLICATION RATE
STEP 1	COMPOST	COMPOST	270 CY/ACRE
STEP 2	SEED MIX	SEED	62 LB/ACRE
		FERTILIZER	600 LB/ACRE
STEP 3	MULCH	WOOD CHIP MULCH	400 LB/ACRE

SEED MIX

BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
ACHILLEA MILLEFOLIUM (WESTERN YARROW)	50	2
CAREX PRAEGRACILIS (CLUSTERED FIELD SEDGE)	30	10
BARLEY (HORDEUM BRACHYANTHERUM)	70	50

EROSION CONTROL LEGEND
 SCALE: 1" = 50'

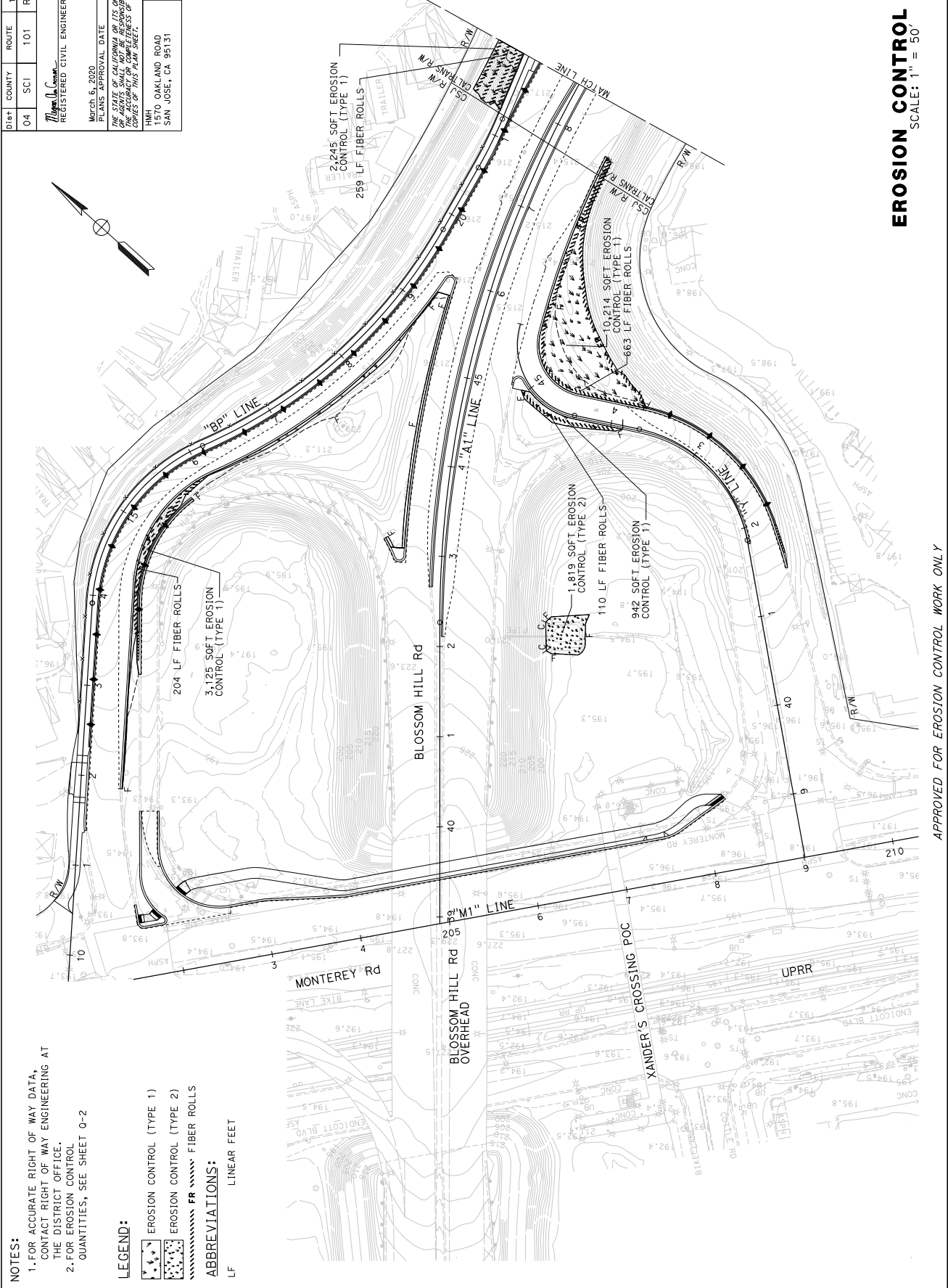
APPROVED FOR EROSION CONTROL WORK ONLY

04	SCI	101	R28.4/R28.9	212	345
COUNTY		ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS	
REGISTERED CIVIL ENGINEER DATE 03-05-20 MEGAN ANN CROGAN No. 85735 Exp. 3/30/20 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET.					
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95131					

NOTES:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 2. FOR EROSION CONTROL QUANTITIES, SEE SHEET 0-2

LEGEND:
 EROSION CONTROL (TYPE 1)
 EROSION CONTROL (TYPE 2)
 FIBER ROLLS
ABBREVIATIONS:
 LF LINEAR FEET

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	WILLIAM J. WAGNER	CHECKED BY	DATE REVISED BY
BORDER LAST REVISED 7/2/2010		USERNAME => wjwagner DON FILE => 460507e001.dgn	APPROVED FOR EROSION CONTROL WORK ONLY	
PROJECT NUMBER & PHASE		UNIT 0000	RELATIVE BORDER SCALE 15 IN INCHES	



EROSION CONTROL PLAN
 SCALE: 1" = 50'

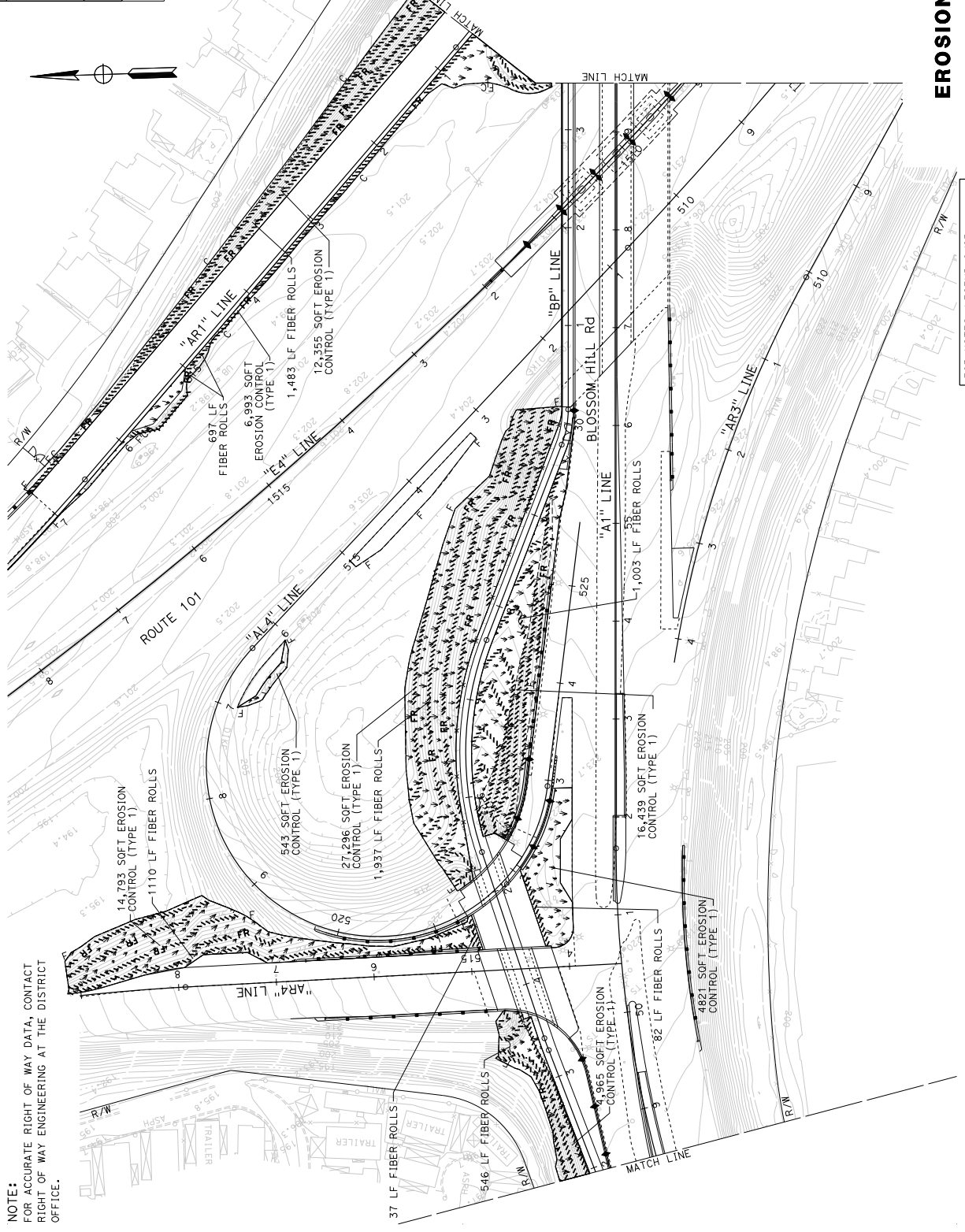
Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS
04	SCI	101	R28.4/R28.9	213 345

REGISTERED CIVIL ENGINEER	DATE
Megan J. Wagner	03-05-20

PLANS APPROVAL DATE	REGISTERED PROFESSIONAL ENGINEER
March 6, 2020	MEGAN ANN CROMAN
No. 85735	Exp. 3/30/20
THE STATE OF CALIFORNIA AND ITS OFFICERS AND AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET.	

DATE PLOTTED => 06-MAR-2020	LAST REVISION
02-25-19	0416000224

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



EROSION CONTROL PLAN

SCALE: 1" = 50'

FOR NOTES, LEGEND &/OR ABBREVIATIONS, SEE SHEET EC-1

APPROVED FOR EROSION CONTROL WORK ONLY

PROJECT NUMBER & PHASE

UNIT 0000

RELATIVE BORDER SCALE 15 IN INCHES

USERNAME => mchay DON FILE => 460507e6002.dgn

BORDER LAST REVISED 7/2/2010

EC-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	WILLIAM J. WAGNER	CHECKED BY	DATE REVISED BY
REVISOR	DESIGNED BY			

Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
04	SCI	101	R28.4/R28.9	214 345

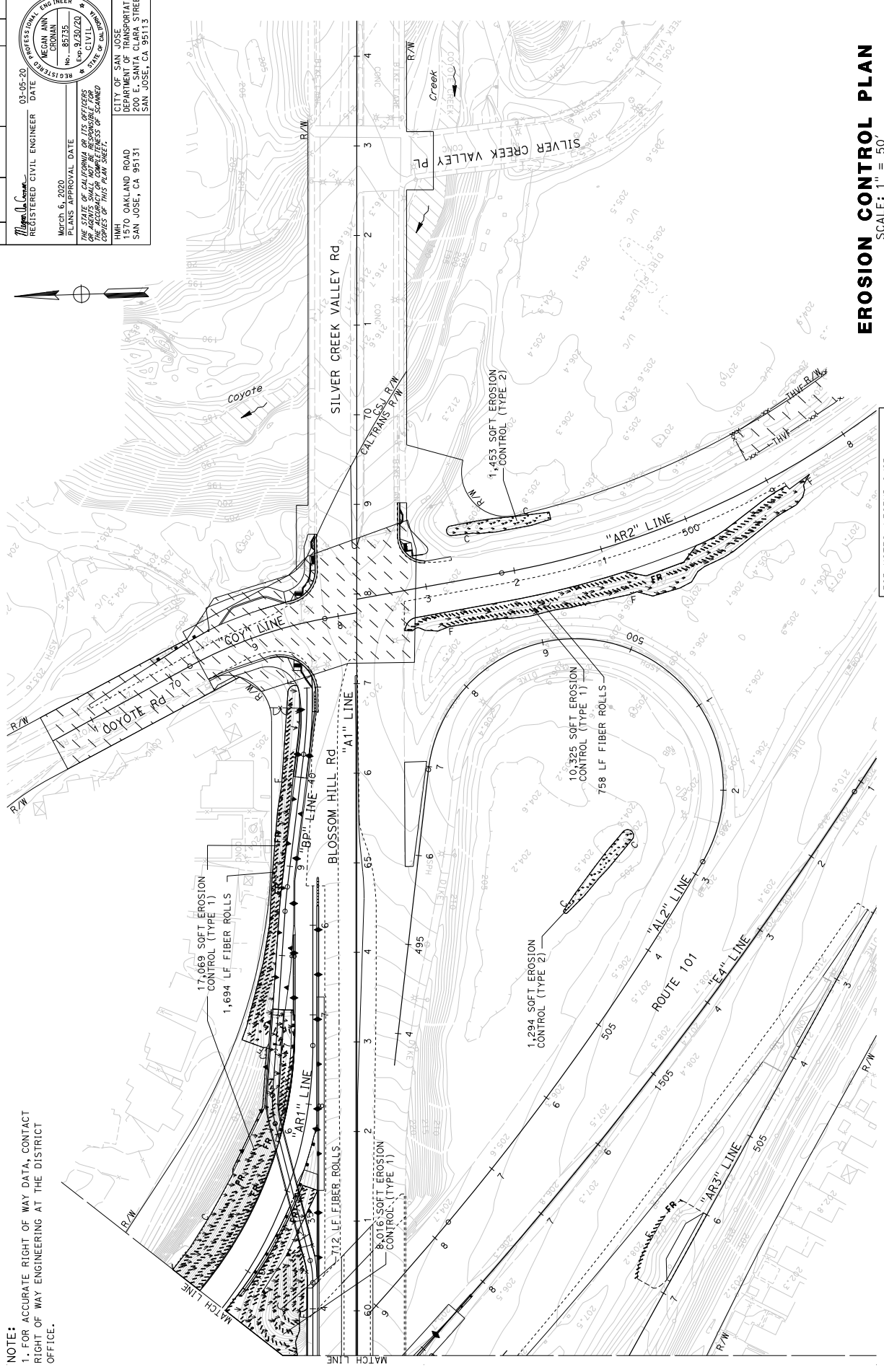
REGISTERED CIVIL ENGINEER	DATE
Megan A. Cronan	03-05-20

PROFESSIONAL ENGINEER	REGISTRATION NO.	EXPIRES
MEGAN ANN CRONAN	85735	3/30/20

PLANS APPROVAL DATE	DATE
MARCH 6, 2020	03-05-20

THE STATE OF CALIFORNIA AND ITS OFFICERS AND AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET.

DATE PLOTTED =>	06-MAR-2020
TIME PLOTTED =>	13:33



NOTE:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

EROSION CONTROL PLAN

SCALE: 1" = 50'

FOR NOTES, LEGEND &/OR ABBREVIATIONS, SEE SHEET EC-1

APPROVED FOR EROSION CONTROL WORK ONLY

RELATIVE BORDER SCALE 15 IN INCHES

UNIT 0000

PROJECT NUMBER & PHASE

0416000224

EC-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	WILLIAM J. WAGNER	CHECKED BY	DATE REVISIED
REVISIED BY	DESIGNED BY			



USERNAME => jwagner
 DON FILE => 460507e003.dgn

BORDER LAST REVISED 7/2/2010

LAST REVISION

LEGEND:	NEW	EXISTING	STANDARD TYPE	GENERAL NOTES:
			PEDESTRIAN SCALE LIGHT POLE, SEE DETAIL B SHEET E-11 AND DETAIL B SHEET E-12.	1. ALL WORK SHALL CONFORM TO CALTRANS 2018 STANDARD PLANS AND STANDARD SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.
			COMMUNICATION CONDUIT (3") WITH 25-PAIR SIC AND 3" x 3" CELL INNERDUCT.	2. POLES, PULL BOXES, AND DETECTORS SHALL BE LOCATED IN THE PRESENCE OF THE ENGINEER.
			VEHICLE SIGNAL HEAD (3 SECTION) CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS FOR RIGHT TURN MOVEMENT.	3. ALL NEW PULL BOXES SHALL BE NO. 6 UNLESS OTHERWISE NOTED.
			VEHICLE SIGNAL HEAD (4 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH GREEN LEFT ARROW SECTIONS.	4. ALL TRAFFIC SIGNAL HEADS ARE 3-SECTION HEADS UNLESS OTHERWISE NOTED.
			BATTERY BACKUP SYSTEM (BBS) CABINET	5. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING EXISTING UNDERGROUND ELECTRICAL FACILITIES.
			NO. 6 PULL BOX	6. THE LOCATIONS OF ALL UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES; HOWEVER, CALTRANS, THE CITY OF SAN JOSE, AND OTHER AGENCIES ARE ADVISED THAT THERE MAY BE UNDISCOVERED BUT OTHER UNDERGROUND UTILITIES OR OBJECTS WHICH MAY BE DISCOVERED BUT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES AND IMMEDIATELY NOTIFY CALTRANS AND THE CITY OF SAN JOSE IF ANY SUCH FACILITIES INTERFERE WITH THE IMPROVEMENTS.
			SIGNAL INTERCONNECT CABLE PULL BOX	7. THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR TO COMMENCING CONSTRUCTION IN THE CITY OF SAN JOSE'S RIGHT OF WAY, HE OR SHE IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES VIA THE UNDERGROUND SERVICE ALERT (USA NORTH) AT (800)227-2600 PRIOR TO EXCAVATION FOR ALL UNDERGROUND UTILITIES AND IMPROVEMENTS SHOWN ON PLANS. CONFLICT WITH THE PLACEMENT OF IMPROVEMENTS SHOWN ON PLANS.
			SIGN MOUNTED ON MAST ARM	8. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND/OR DETOUR PLAN FOR APPROVAL BY CALTRANS AND THE CITY OF SAN JOSE PRIOR TO THE START OF CONSTRUCTION. NO OTHER DEVICES, INCLUDING BUT NOT LIMITED TO, SIGNAGE, PERSON OR OTHER DEVICES, NECESSARY FOR PUBLIC SAFETY AND IN COMPLIANCE WITH PART VI OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CAMUTD). PEDESTRIAN ACCESS SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES.
			SIGN MOUNTED ON POLE	9. CONTRACTOR SHALL ENSURE ALL IMPACTED CONDUCTORS ARE PROPERLY RECONNECTED.
			BLANK-OUT SIGN FOR PROHIBITED RIGHT TURN	10. NO MORE THAN TWO TWISTED PAIRS OF CONDUCTORS FOR DETECTION LOOPS SHALL BE INSTALLED IN ONE SAW CUT.
			SURFACE MOUNTED LUMINAIRE	11. ALL EXISTING AND OPERATIONAL TRAFFIC TOS ELEMENTS AND RAMP METERING EQUIPMENT SHALL BE KEPT OPERATIONAL THROUGHOUT CONSTRUCTION, EXCEPT AS SPECIFIED IN PLANS. ANY ELEMENTS AFFECTED BY THIS PROJECT SHALL BE RELOCATED, MODIFIED, OR FULLY REPLACED AS NECESSARY.
				12. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING ELECTRICAL CONDUIT, CONDUCTOR THEREIN AND ANY OTHER CALTRANS AND THE CITY OF SAN JOSE'S EQUIPMENT WHICH IS DAMAGED DURING CONSTRUCTION.

INDEX OF ELECTRICAL SYSTEMS PLANS	DESCRIPTION
E-1 TO E-2	INDEX OF ELECTRICAL SYSTEMS PLANS, NOTES, LEGEND, ABBREVIATIONS
E-3	MODIFYING EXISTING ELECTRICAL SYSTEM, SCHEDULES AT SOUTHBOUND RAMP AND BLOSSOM HILL ROAD
E-4	MODIFYING EXISTING ELECTRICAL SYSTEM, SCHEDULES AT SOUTHBOUND RAMP AND BLOSSOM HILL ROAD
E-5	MODIFYING EXISTING ELECTRICAL SYSTEM, COYOTE ROAD AND BLOSSOM HILL ROAD
E-6	MODIFYING EXISTING ELECTRICAL SYSTEM, SCHEDULES AT COYOTE ROAD AND BLOSSOM HILL ROAD
E-7	RAMP METERING SYSTEM, ROUTE 101 SOUTHBOUND LOOP ON-RAMP
E-8	MODIFY RAMP METERING SYSTEM, ROUTE 101 NORTHBOUND ON-RAMP
E-9	MODIFY RAMP METERING SYSTEM, ROUTE 101 NORTHBOUND DIAGONAL ON-RAMP
E-10 TO E-12	LIGHTING SYSTEM, BICYCLE PATH
E-13 TO E-15	INTERCONNECTION CONDUIT AND CABLE
E-16 TO E-17	TEMPORARY SIGNAL SYSTEM, ROUTE 101 SOUTHBOUND RAMP AND BLOSSOM HILL ROAD CONSTRUCTION STAGE 1 PHASE 2
E-18 TO E-19	TEMPORARY SIGNAL SYSTEM, ROUTE 101 SOUTHBOUND RAMP AND BLOSSOM HILL ROAD CONSTRUCTION STAGE 1 PHASE 3
E-20 TO E-21	TEMPORARY SIGNAL SYSTEM, ROUTE 101 MONTEREY ROAD AND BLOSSOM HILL ROAD
ED-1	ELECTRICAL DETAILS, RAMP METERING SYSTEM
ED-2	ELECTRICAL DETAILS, MODIFYING EXISTING ELECTRICAL SYSTEM
ED-3	ELECTRICAL DETAILS, LIGHTING SYSTEM
EO-1 TO EO-2	ELECTRICAL SYSTEM QUANTITIES

INDEX OF ELECTRICAL SYSTEMS PLANS	ABBREVIATIONS
	ADA - AMERICAN DISABILITIES ACT
	BBS - BATTERY BACKUP SYSTEM
	ETW - EDGE OF TRAVELLED WAY
	PEU - PHOTO ELECTRIC UNIT
	RMS - RAMP METERING SYSTEM
	SIC - SIGNAL INTERCONNECT CABLE
	SJA - SIGNAL JUNCTION ARCADE
	TOS - TRAFFIC OPERATION SYSTEM

INDEX OF ELECTRICAL SYSTEMS PLANS, NOTES, LEGEND, ABBREVIATIONS	APPROVED FOR ELECTRICAL WORK ONLY
	DATE PLOTTED = 06-MAR-2020
	TIME PLOTTED = 11:41
	LAST SHEET

04	SCI	101	R28.4/R28.9	215	345
COUNTY ROUTE POST MILES TOTAL PROJECT SHEET TOTAL SHEETS 04 SCI 101 R28.4/R28.9 215 345					
DAVID C. MAHAMA REGISTERED CIVIL ENGINEER DATE 03/06/20					
MARCH 6, 2020 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY INFORMATION OR DATA SHOWN ON THESE PLANS OR THE RESULTS OF ANY TESTS OR CALCULATIONS PERFORMED THEREON. THE USER OF THESE PLANS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.					
DIVISION OF PROFESSIONAL ENGINEERS CIVIL ENGINEERING No. 108984 Exp. 9/30/09 STATE OF CALIFORNIA					
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95113					

ELECTRICAL SYSTEMS

SCALE: N/A E-1

INDEX OF ELECTRICAL SYSTEMS PLANS, NOTES, LEGEND, ABBREVIATIONS

APPROVED FOR ELECTRICAL WORK ONLY

- PROJECT NOTES:**
1. INSTALL NEW STATE FURNISHED MODEL 3341 CABINET AND MODEL 2070E CONTROLLER. INSTALL AIRLINK MP70 WITH 3-IN-1 DOME ANTENNA AND ALL APPURTENANCES REQUIRED FOR THE INTENDED OPERATION. PROVIDE A MINIMUM SETBACK OF 30' TO ETW.
 2. EXISTING 120/240V TYPE III-F SERVICE EQUIPMENT ENCLOSURE. (IDEN NO. 297111) SEE TRAFFIC SIGNAL PLAN E-3 FOR DETAILS.
 INSTALL NEW:
 30A, 120V, 1P (RAMP METERING)
 30A, 120V, 2P (SPARE FUTURE USE - METERED)
 EXISTING 120/240V SERVICE (IDEN NO. 0437-101-28711), EXISTING LOAD:
 1500W TRAFFIC SIGNAL
 1610W LED LIGHTING
 2400W FLOOR LIGHTING
 500W RAMP METERING
 100W IRRIGATION
 MODIFIED LOAD:
 SAME AS EXISTING LOAD EXCEPT REPLACE 1610W LED LIGHTING WITH 2064W REPLACE 1610W LED LIGHTING WITH 2128W
 3. TYPE 1-B WITH AMBER COLORED FLASHING BEACON AND ADVANCE WARNING SIGN AS SHOWN ON PLAN.
 4. FURNISH AND INSTALL RAMP METERING SIGNAL AND SIGN R89. SEE DETAIL A ON SHEET ED-1.
 5. EXISTING TYPE 170 CONTROLLER.
 [R] EXISTING MODEL 334 CABINET AND ALL RELATED ELECTRICAL EQUIPMENT FOR THE INTENDED OPERATION ON NEW FOUNDATION. PROVIDE A MINIMUM SETBACK OF 30' TO NEW ETW.
 INSTALL STATE FURNISHED TYPE 2070E CONTROLLER. INSTALL AIRLINK MP70 WITH 3-IN-1 DOME ANTENNA AND ALL APPURTENANCES REQUIRED FOR THE INTENDED OPERATION.
 6. EXISTING 120/240, 1Ø 3 WIRE TYPE AF SERVICE EQUIPMENT ENCLOSURE. (IDEN NO. 28472)
 EXISTING:
 15A, 1P (SIGN LIGHTING SWITCH)
 15A, 120V, 1P (PHONE LIGHTING CONTROL)
 15A, 120V, 1P (TELEPHONE)
 30A, 240V, 2P (SIGN LIGHTING)
 100A, 240V, 3P (MAIN)
 40A, 240V, 2P (HIGHWAY LIGHTING)
 30A, 120V, 1P (RAMP METERING)
 30A, 120V, 1P (SPARE FUTURE USE - METERED)
 15A, 120V, 1P (WATER IRRIGATION)
 15A, 120V, 1P (HIGHWAY LIGHTING CONTROL)
 15A, 1P (HIGHWAY LIGHTING TEST SWITCH)
 30A, 240V, 2P (SPARE)
 30A, 240V, 2P (SPARE)
 INSTALL NEW:
 30A, 240V, 2P (BICYCLE PATH LIGHTING - METERED)
 EXISTING 120/240V TYPE H SERVICE (IDEN NO. 0437-101-28472).
 INSTALL NEW:
 30A, 240V, 2P (BICYCLE PATH LIGHTING-METERED)
 EXISTING LOAD:
 2100W TRAFFIC SIGNAL
 1473W LED LIGHTING
 2400W FLOOR LIGHTING
 750W RAMP METERING
 100W IRRIGATION
 100W TELEPHONE
 MODIFIED LOAD: EXISTING LOAD EXCEPT REPLACE 2100W TRAFFIC SIGNAL WITH 2623W REPLACE 1473W LED LIGHTING WITH 2094W ADD 448W TO EXISTING RAMP METERING
 7. TYPE 1B-4-100 (MOD) WITH 3Ø SIGNAL MAST ARM, 4 MAT "AR1" 8+75, SEE DETAIL B ON SHEET ED-1.
 8. FURNISH AND INSTALL TYPE 1-B ON BARRIER.
 9. FURNISH AND INSTALL LUMINAIRE ARM PERPENDICULAR TO MAST ARM.
 [R] EXISTING CONTROLLER CABINET AND TYPE 170 CONTROLLER. INSTALL NEW STATE FURNISHED MODEL 332L CONTROLLER CABINET AND NEW STATE FURNISHED 2070 CONTROLLER AT THE NEW LOCATION.
 [R] EXISTING BBS CABINET AND OTHER COMPONENTS TO THE NEW CONTROLLER CABINET. PROVIDE A MINIMUM SETBACK OF 30' TO ETW.
 11. PLACEMENT OF SIGNAL POLE SHALL AVOID CONFLICT WITH WATERLINE AND TREE.
 12. PLACEMENT OF SIGNAL POLE SHALL AVOID CONFLICT WITH EXISTING UTILITIES.
 [R] EXISTING CAMERA CABLE FROM EXISTING CONTROLLER CABINET TO NEW CONTROLLER CABINET.
 13. INSTALL POLE FOUNDATION ON EARTH SLOPE.

14. COIL 25' OF 25 PAIR SIC CABLE. TAPE THE UNFINISHED END AND LABEL THE CABLE.
15. FURNISH AND INSTALL R3-1 BLANK-OUT SIGN. SEE DETAIL A ON ED-2.
16. INSTALL NEW IRRIGATION CONTROLLER AND CABINET AND ALL APPURTENANCES REQUIRED FOR THE INTENDED OPERATION.
17. CONTROLLER INSTALLED AT NEW PERMANENT LOCATION PRIOR TO BEGINNING OF PHASE 2.
18. FURNISH AND INSTALL PORTABLE TRAFFIC SIGNAL.
19. EXISTING CONTROLLER CABINET AND TYPE 170 CONTROLLER. INSTALL NEW FURNISHED 2070 CONTROLLER CABINET AND NEW STATE FURNISHED 2070 CONTROLLER AT THE NEW LOCATION. PROGRAM LEADING PEDESTRIAN INTERVAL (LPT) FOR Ø2 AND Ø4.
 [R] EXISTING BBS CABINET AND OTHER COMPONENTS TO THE NEW CONTROLLER CABINET.
20. INSTALL RAMP METERING CONDUIT AND CONDUCTORS INTO PULLBOX. SEE SHEETS E-7 AND E-8.
21. FURNISH AND INSTALL TYPE 1-B ON BARRIER.
22. POLE SHALL BE MOUNTED ON BRIDGE STRUCTURE.
23. FIXTURE SHALL BE MOUNTED ON LEFT TRUSS TOP CHORD AT LOCATION ON E-10. FIXTURE SHALL BE BOLTED TO 4" X 4" X 2/8" WATERTIGHT STEEL JUNCTION BOX. JUNCTION BOX SHALL BE WELDED TO TRUSS MEMBER. SEE DETAIL A ON SHEET ED-3 AND DETAIL B ON SHEET ED-2 FOR BACK PLATE MOUNTING DETAIL AND MOUNTING LAYOUT, RESPECTIVELY.
24. CONDUIT SHALL RUN ON TOP OF LONGITUDINAL TRUSS CHORD.
25. INSTALL 3" CONDUIT TO CONTROLLER CABINET HOME-RUN BOX.
26. COIL 50' OF 25 PAIR SIC CABLE SLACK. TAPE THE UNFINISHED END AND LABEL THE CABLE.
27. [R] EXISTING CITY OF SAN JOSE 12-PAIR SIC 12-PAIR SIC CABLE DOES NOT REACH NEW CONTROLLER CABINET WITH SLACK ENTIRE 12-PAIR CABLE SHALL BE REPLACED WITH 25-PAIR SIC TO THE TRAFFIC CONTROLLER CABINET AT THE INTERSECTION OF SILVER CREEK VALLEY RD/SILVER CREEK VALLEY PL.
 [R] IRRIGATION CONTROLLER CABINET INSTALLED AT NEW PERMANENT LOCATION PRIOR TO BEGINNING OF PHASE 2.
 2-F T SHALL BE ADDED TO FOUNDATION DEPTH ON SLOPE ABOVE 1V:4H AND EQUAL TO OR LESS THAN 1V:2H PER 2018 CALTRANS STD. PLAN ES-18A.
 INSTALL TEMPORARY VIDEO DETECTION SYSTEM IN THE CONTROLLER CABINET.
 ADJUST EXISTING PULL BOX TO GRADE.
28. RESERVED.
29. NEW 120/240V, 1Ø 3 WIRE TYPE III-F SERVICE EQUIPMENT ENCLOSURE.
 INSTALL NEW:
 30A, 240V, 2P (BICYCLE PATH LIGHTING - METERED)
 30A, 120V, 1P (SPARE FUTURE USE - METERED)
 20A, 120V, 1P (SPARE FUTURE USE - UNMETERED)
 20A, 120V, 1P (SPARE FUTURE USE - UNMETERED)
 NEW LOAD:
 670W BICYCLE PATH LIGHTING (METERED)
 100W IRRIGATION
 SEE SHEET ED-3 DETAIL C FOR WIRING DIAGRAM
34. FURNISH AND INSTALL TEMPORARY VIDEO DETECTION ON LUMINAIRE MAST-ARM. SEE DETAIL B ON ED-2.
35. SEE CALTRANS 2018 STD. PLAN ES-9B DETAIL R FOR CONDUIT RISER.
36. SEE CALTRANS 2018 STD. PLAN ES-9A DETAIL I FOR CONDUIT RUN INSTALLATION DETAILS FROM BRIDGE TO PULLBOX.
 [R] EXISTING CONTROLLER CABINET AND TYPE 170 CONTROLLER.
 [R] ALL OTHER EXISTING APPURTENANCES REQUIRED FOR THE INTENDED OPERATION TO NEW CONTROLLER CABINET.

101st COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	101	R28.4/R28.9	216	345

DAVID C. MAHAMA
 REGISTERED CIVIL ENGINEER
 DATE 03/06/20
 EXP. 9/30/20

THE STATE OF CALIFORNIA BY ITS OFFICERS
 DAVID C. MAHAMA
 CIVIL ENGINEER
 No. 189964
 Exp. 9/30/20
 HIS AGENY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS OF THIS PLAN SHEET.

CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 94612

SEE SHEETED-3 FOR WIRING DIAGRAM.

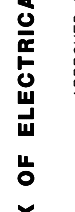
REPLACE EXISTING SERVICE ENCLOSURE WITH NEW 120/240V SERVICE ENCLOSURE. EXISTING CIRCUITS TO BE ENERGIZED AND REMOVED FROM SERVICE. EXISTING TRUSS CHORD SHALL BE WELDED TO EXISTING LOAD TO REMAIN.
 3000W TRAFFIC SIGNAL
 2403W LED LIGHTING
 4-70W SOFFIT LIGHTING
 100W IRRIGATION
 MODIFIED LOAD:
 SAME AS EXISTING LOAD EXCEPT ADD 957W BICYCLE PATH LIGHTING (METERED)
 SEE SHEET ED-3 DETAIL B FOR WIRING DIAGRAM.

INSTALL 3Ø6 (BICYCLE PATH LIGHTING), 3Ø14 (IRRIGATION), FURNISH AND INSTALL 12"X12"X8", MODIFIED CALTRANS STD. NO. 7 PULLBOX IN BRIDGE STRUCTURE.
 LOOP DETECTORS SHALL BE PREFORMED INDUCTIVE LOOP DETECTORS PER CALTRANS STANDARD SPECIFICATIONS 87-1.03V(3). LOOP DETECTORS AND CONDUITS SHALL NOT CROSS BRIDGE JOINTS.
 FURNISH AND INSTALL TESCO 27-4.00 MODEL SERVICE ENCLOSURE AND FOUNDATION. SEE WIRING DIAGRAM ON ED-3 DETAIL B.
 FURNISH AND INSTALL RIGID METAL CONDUIT TYPE 1.
 FURNISH AND INSTALL RIGID CONDUIT EXPANSION FITTING PER CALTRANS 2018 STD. PLAN ES-9B DETAIL V.
 REPLACE EXISTING PULL BOX WITH NO. 6(E) PULL BOX.
 FURNISH AND INSTALL WATERTIGHT STEEL JUNCTION BOX (MINIMUM VOLUME 15 CUBIC INCHES) TO LEFT TRUSS TOP CHORD. BOX SHALL BE WELDED TO TRUSS. SEE DETAIL C ON SHEET ED-2 FOR MOUNTING LAYOUT.
 EXISTING 120/240V TYPE III-F SERVICE EQUIPMENT ENCLOSURE. (IDEN NO. 28713).
 INSTALL NEW:
 30A, 240V, 2P (RAMP METERING)
 30A, 120V, 1P (SPARE FUTURE USE - METERED)
 EXISTING 120/240V SERVICE (IDEN NO. 0437-101-28713).
 EXISTING LOAD:
 2100W TRAFFIC SIGNAL
 1473W LED LIGHTING
 2400W FLOOR LIGHTING
 750W RAMP METERING
 100W IRRIGATION
 100W TELEPHONE
 MODIFIED LOAD: EXISTING LOAD EXCEPT REPLACE 2100W TRAFFIC SIGNAL WITH 2623W REPLACE 1473W LED LIGHTING WITH 2094W ADD 448W TO EXISTING RAMP METERING

FURNISH AND INSTALL PULL BOX IN BARRIER PER CALTRANS 2018 STD. PLAN ES-9D DETAIL D.
 CONTRACTOR SHALL LOCATE AND PROTECT EXISTING COPPER COMMUNICATION CONDUITS AND CABLES FROM DAMAGE.
 FURNISH AND INSTALL PULL BOX IN BARRIER PER CALTRANS 2018 STD. PLAN ES-9A DETAIL A.
 FURNISH AND INSTALL PULL BOX WITH CITY OF SAN JOSE STANDARD THEFT DETERRENT LID.
 FURNISH AND INSTALL VIDS EQUIPMENT IN CONTROLLER CABINET. CONTRACTOR SHALL COMPLETE ALL CONNECTIONS FOR A FULLY FUNCTIONAL DETECTION SYSTEM.
 [R] EXISTING CAMERA CABLE FROM EXISTING CONTROLLER CABINET TO NEW CONTROLLER CABINET.
 [R] RELATED CAMERA EQUIPMENT FROM EXISTING CONTROLLER CABINET TO NEW CONTROLLER CABINET.

ELECTRICAL SYSTEMS
 SCALE: N/A

INDEX OF ELECTRICAL SYSTEMS PLANS, NOTES, LEGEND, ABBREVIATIONS
 APPROVED FOR ELECTRICAL WORK ONLY



DATE PLOTTED => 06-MAR-2020
 LAST REVISION
 03-04-20

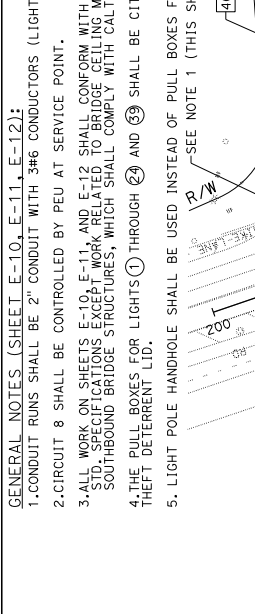
GENERAL NOTES (SHEET E-10, E-11, E-12):
 1. CONDUIT RUNS SHALL BE 2" CONDUIT WITH 3#6 CONDUCTORS (LIGHTING), UNLESS OTHERWISE SPECIFIED.
 2. CIRCUIT 8 SHALL BE CONTROLLED BY PEU AT SERVICE POINT.
 3. ALL WORK ON SHEETS E-10, E-11, AND E-12 SHALL CONFORM WITH CITY OF SAN JOSE STD. PLANS AND STD. SPECIFICATIONS FOR LIGHTING. ALL WORK RELATED TO BRIDGE CEILING MOUNTED FIXTURES ON THE US-101 SOUTHBOUND BRIDGE STRUCTURES, WHICH SHALL COMPLY WITH CALTRANS STD. PLANS AND SPECIFICATIONS.
 4. THE PULL BOXES FOR LIGHTS ① THROUGH ②④ AND ③③ SHALL BE CITY OF SAN JOSE STANDARD NO. 3/2 PULL BOXES WITH THEFT DETERRENT LID.
 5. LIGHT POLE HANDHOLE SHALL BE USED INSTEAD OF PULL BOXES FOR LIGHTS ②⑤ THROUGH ③① AND ③④ THROUGH ③⑧. (SEE NOTE 1 (THIS SHEET)).

NOTES (THIS SHEET):
 1. SEE SHEET E-20 FOR SERVICE CONNECTION INFORMATION.

04 COUNTY ROUTE POST MILES SHEET TOTAL
 04 SCI 101 R28.4/R28.9 224 345

DAVID C. MAHAMA
 REGISTERED CIVIL ENGINEER DATE 03/06/20
 March 6, 2020
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA DO NOT WARRANT OR AGREE THAT THE INFORMATION ON THESE PLANS OR ANY PARTS THEREOF IS COMPLETE, ACCURATE OR RELIABLE. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THIS PLAN SHEET.
 PROFESSIONAL ENGINEER
 No. 7199864
 Exp. 9/30/20
 CIVIL
 STATE OF CALIFORNIA

CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 OAKLAND, CA 94612



BICYCLE PATH LIGHTING TABLE

POLE #	STA.	CIRCUIT	OFFSET FROM BP LINE	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
1	12+82	4	7.5' LT	25+12	25+73	26+54	27+36	28+18	29+01	29+84	30+60	31+40	32+20	32+92	33+64	34+32	34+95	35+41.50	35+81.50	36+34
2	13+63	4	7.5' LT	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
3	14+41	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
4	15+18	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
5	15+96	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
6	16+75	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
7	17+57	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
8	18+38	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	19+19	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10	20+00	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
11	20+81	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
12	21+64	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
13	22+46	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
14	23+31	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
15	23+89	4	7.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
16	24+18	4	SURFACE MOUNTED	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
17	24+67	4	8.5' LT	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

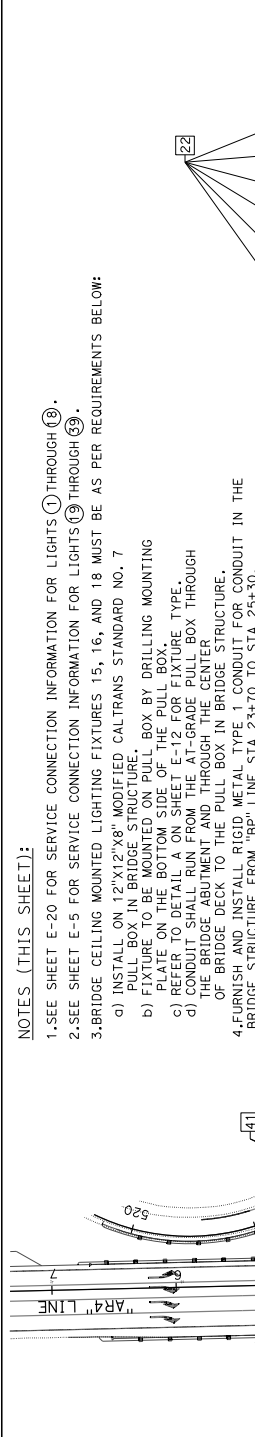
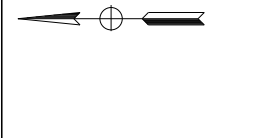
35	37+14.80	8	BRIDGE MOUNTED	8
36	38+01.13	8	RETAINING WALL MOUNTED	8
37	38+83.79	8	RETAINING WALL MOUNTED	8
38	39+66.45	8	RETAINING WALL MOUNTED	8
39	40+48	8	7.2' LT	8

BICYCLE PATH
 APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR
 DAVID MAHAMA
 CHECKED BY
 MARIA TRIBELHORN
 DATE REVISED
 JIELIN PAN
 REVISOR

DATE PLOTTED => 06-MAR-2020
 LAST REVISION
 03-04-20

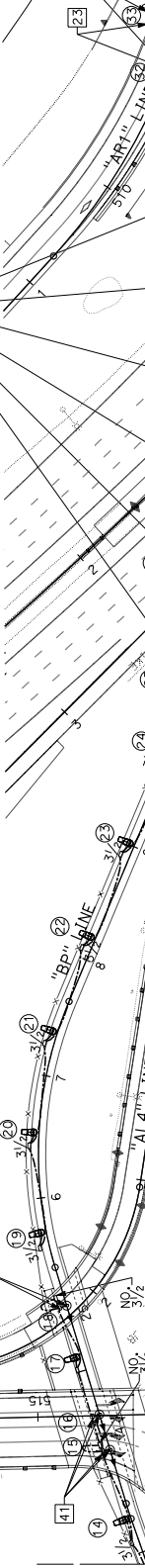
DATE	03/06/20	DATE	03/06/20	SHEET TOTAL	225	SHEET NO.	225
REGISTERED CIVIL ENGINEER	DAVID C. MAHAMA	REGISTERED CIVIL ENGINEER	DAVID C. MAHAMA	TOTAL PROJECT	R28.4/R28-9	TOTAL SHEETS	345
PLANS APPROVAL DATE	March 6, 2020	PLANS APPROVAL DATE	March 6, 2020	COUNTY	SCI	ROUTE	101
THE STATE OF CALIFORNIA DO NOT ACCEPT ANY LIABILITY FOR THE WORK OR RESULTS THEREOF. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE DESIGN OF THIS PLAN SHEET.				CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95113			



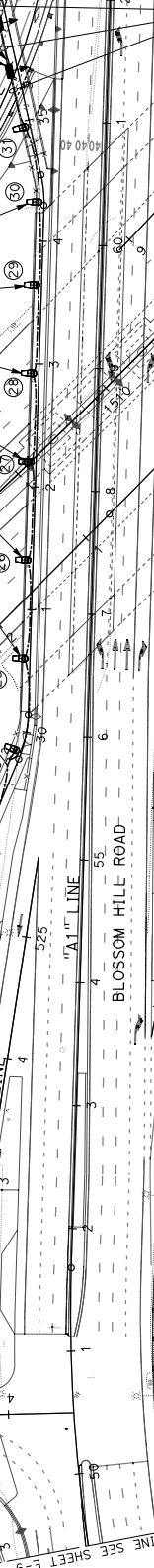
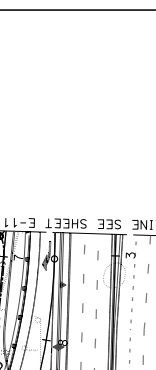
REVISOR	DATE	REVISION
JIELIN PAN		
MARIA TRIBELHORN		
DAVID MAHAMA		

NOTES (THIS SHEET):

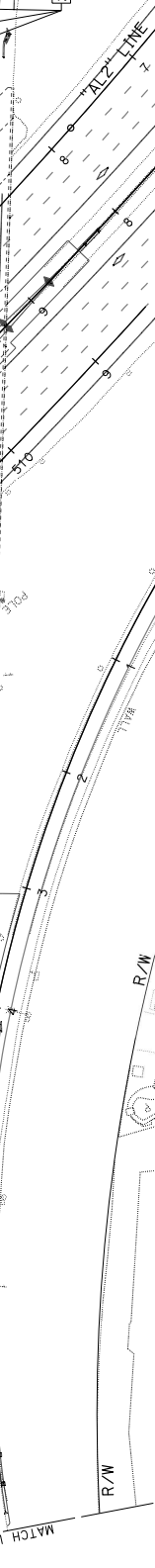
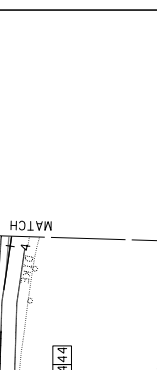
- SEE SHEET E-20 FOR SERVICE CONNECTION INFORMATION FOR LIGHTS 1 THROUGH 18.
- SEE SHEET E-5 FOR SERVICE CONNECTION INFORMATION FOR LIGHTS 19 THROUGH 33.
- BRIDGE CEILING MOUNTED LIGHTING FIXTURES 15, 16, AND 18 MUST BE AS PER REQUIREMENTS BELOW:
 - INSTALL ON 12"x12"x8" MODIFIED CALTRANS STANDARD NO. 7 PULL BOX IN BRIDGE STRUCTURE.
 - FIXTURE TO BE MOUNTED ON PULL BOX BY DRILLING MOUNTING PLATE ON THE BOTTOM SIDE OF THE PULL BOX.
 - REFER TO DETAIL A ON SHEET E-12 FOR FIXTURE TYPE.
 - SPACING SHALL BE 12" ON CENTER THROUGH THE CENTER OF THE BRIDGE ABUTMENT AND THROUGH THE CENTER OF THE BRIDGE DECK TO THE PULL BOX IN BRIDGE STRUCTURE.
- FURNISH AND INSTALL RIGID METAL TYPE 1 CONDUIT FOR CONDUIT IN THE BRIDGE STRUCTURE FROM "BP" LINE STA 23+70 TO STA 25+30.



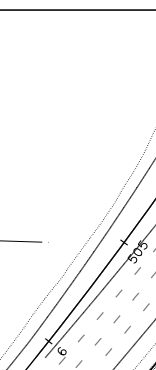
VWPV Weight: 23 Lbs



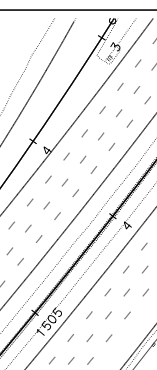
PEDESTRIAN FIXTURE
 CREE C-50-A-NW-2ME-Z-30K-UL-BK-R LED 3000K,
 53W WITH SHIELD DETAIL B



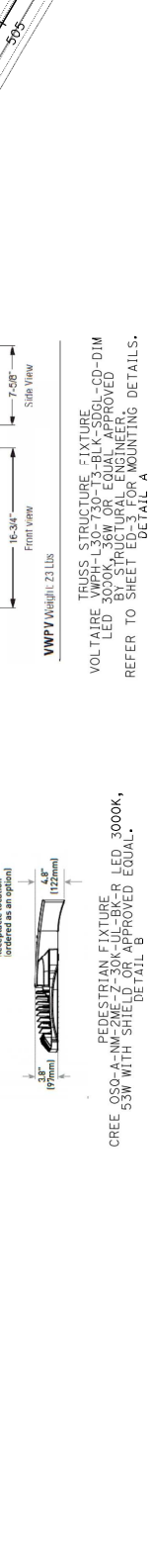
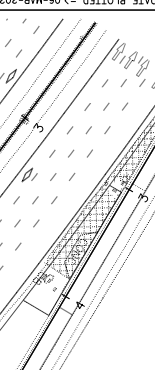
VOLTAIRE TRUSS STRUCTURE, FULL COLORED-DIM LED 3000K, 35W OR EQUIVALENT APPROVED BY STRUCTURAL ENGINEER. REFER TO SHEET ED-3 FOR MOUNTING DETAILS. DETAIL A



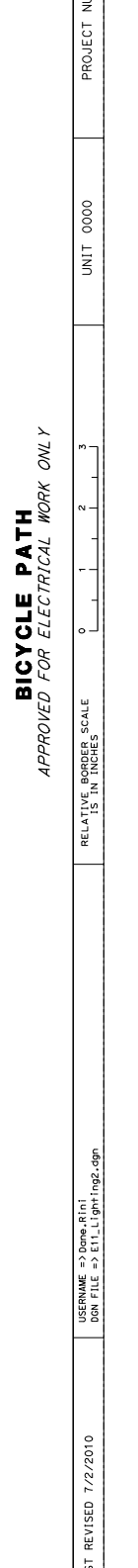
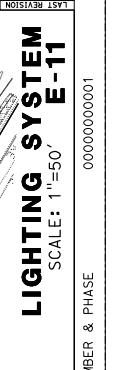
VWPV Weight: 23 Lbs



VWPV Weight: 23 Lbs

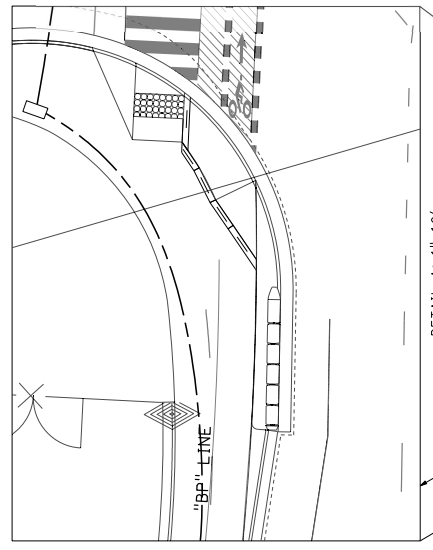


VWPV Weight: 23 Lbs

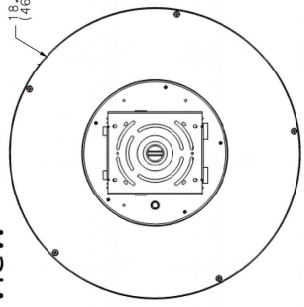


VWPV Weight: 23 Lbs

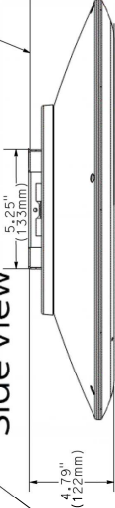
DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
04	SCI	101	R28.4/R28.9	226 345
DAVID C. MAHAMA REGISTERED CIVIL ENGINEER		DATE	03/06/20	
March 6, 2020		PLANS APPROVAL DATE		
<p>THE STATE OF CALIFORNIA DOES NOT WARRANT THE ACCURACY OF THIS PLAN SHEET. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.</p>				
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95113				



Top view

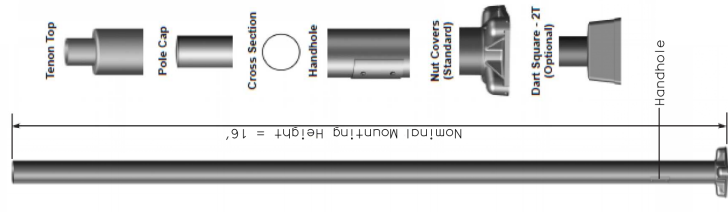


Side view

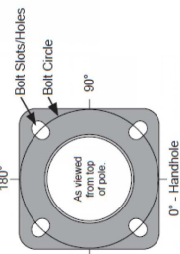


DETAIL A: SURFACE MOUNTED LIGHTING FIXTURE
GARDCO BY SIGNIFY
SVPG-140L-1200-CM-G2-SM-5-120-DD-F2-MGY
WITH BIRD DETERRENT COIL (BXC)
OR APPROVED EQUAL.

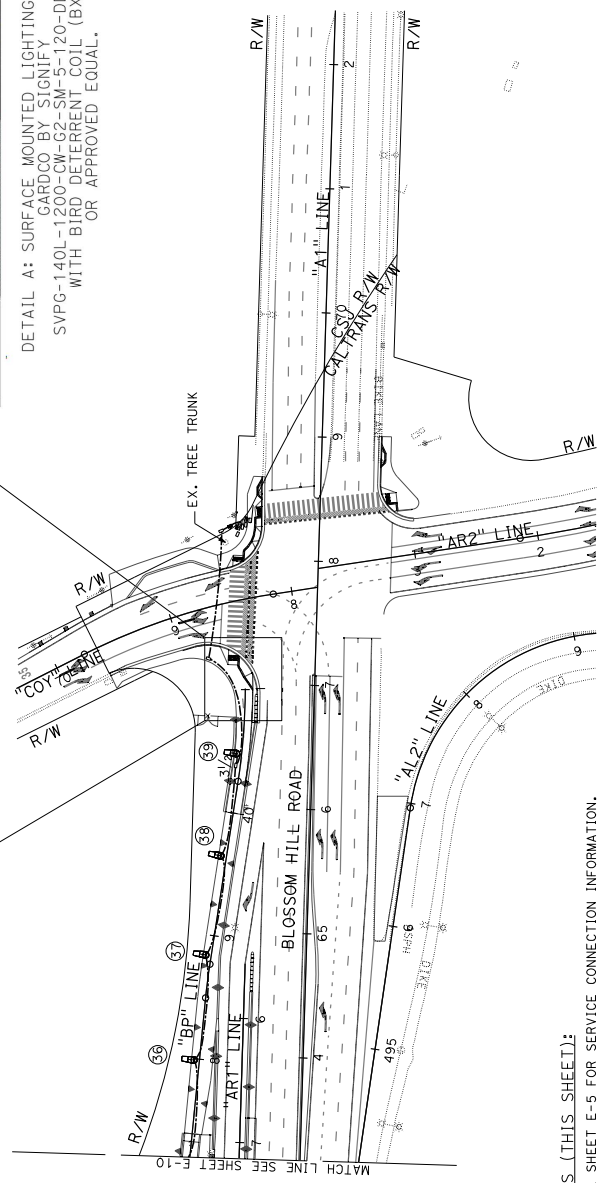
BOTTOM OF UNDERCROSSING STRUCTURE SLAB



Anchor Base Detail




DETAIL B: BICYCLE PATH LIGHT POLE
VALMONT NUMBER 16006060554
OR APPROVED EQUAL.

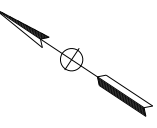


NOTES (THIS SHEET):
1. SEE SHEET E-5 FOR SERVICE CONNECTION INFORMATION.

BICYCLE PATH
APPROVED FOR ELECTRICAL WORK ONLY

LIGHTING SYSTEM E-12
SCALE: 1"=50'

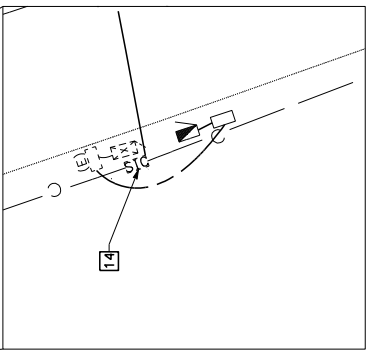
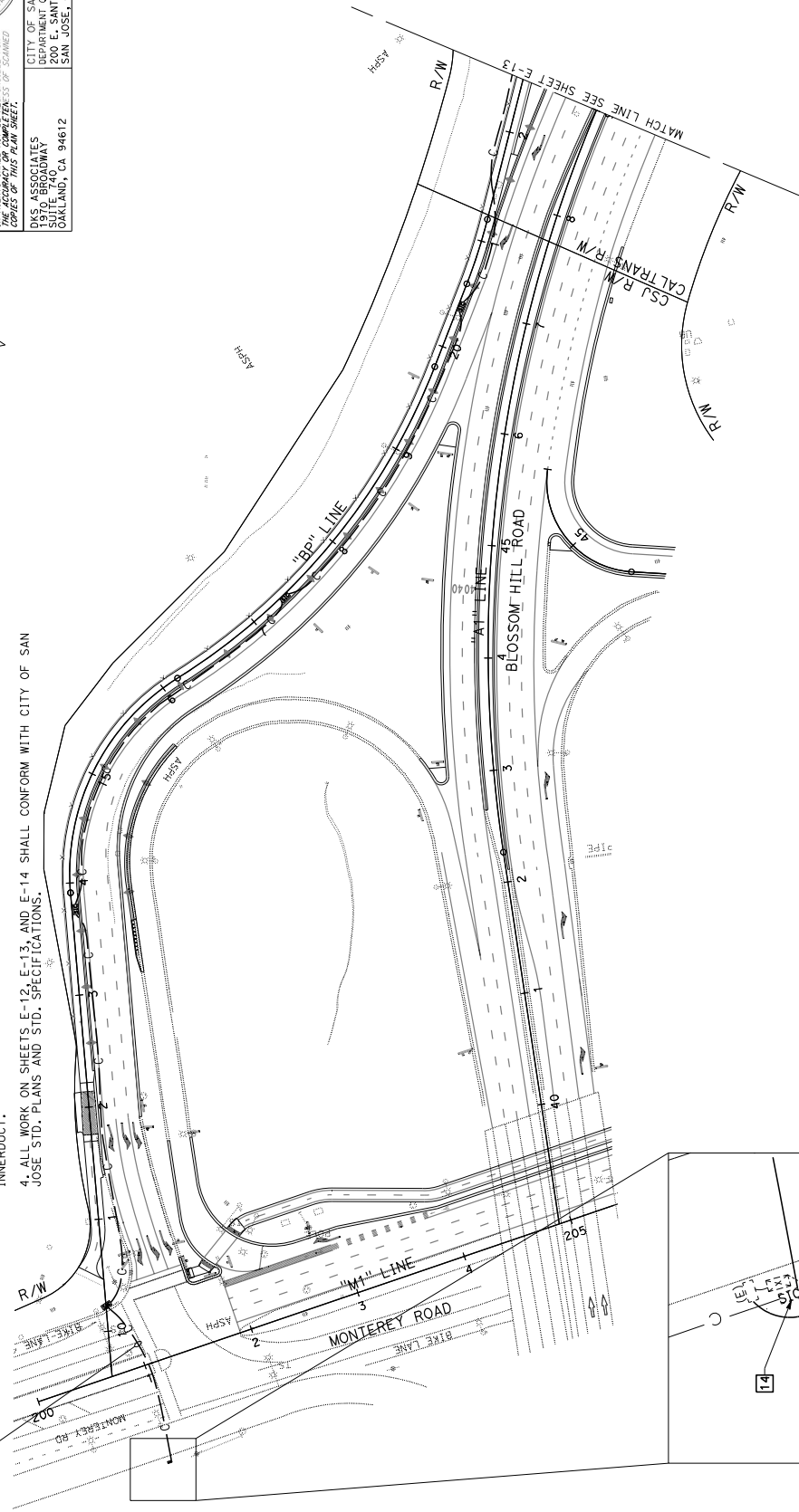
04	SCI	101	R28.4/R28.9	227	345
COUNTY		ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS	
DAVID C. MAHAMA REGISTERED CIVIL ENGINEER DATE 03/06/20					
March 6, 2020 PLANS APPROVAL DATE					
					
THE STATE OF CALIFORNIA DO NOT OPERATE OR AGENT'S SHALL NOT BE RESPONSIBLE FOR COPIES OF THIS PLAN SHEET.					
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION SUITE 740 200 E. SANTA CLARA STREET SAN JOSE, CA 95113					



GENERAL NOTES (SHEET E-13, E-14, E-15):

- CONDUIT RUNS SHALL BE IN CONCRETE BARRIER FROM "A1" LINE STA 56+08 TO STA 64+50, OTHERWISE IN TRENCH. CONDUITS RUNNING IN BARRIER SHALL BE TYPE 1 RIGID METAL CONDUIT.
- SIGNAL INTERCONNECT CABLE PULL BOX COVER SHALL HAVE STAMP "CSJ COMMUNICATION", COIL 10' OF 25-PAIR SIC CABLE SLACK IN EACH SIC PULL BOX.
- ALL SIC CONDUIT SHALL BE 3" AND HAVE 25-PAIR SIC CABLE AND 3", 3-CELL INNERDUCT.
- ALL WORK ON SHEETS E-12, E-13, AND E-14 SHALL CONFORM WITH CITY OF SAN JOSE STD. PLANS AND STD. SPECIFICATIONS.

SEE SHEETS E-20 FOR INTERCONNECT CONDUIT AT MONTEREY ROAD INTERSECTION.

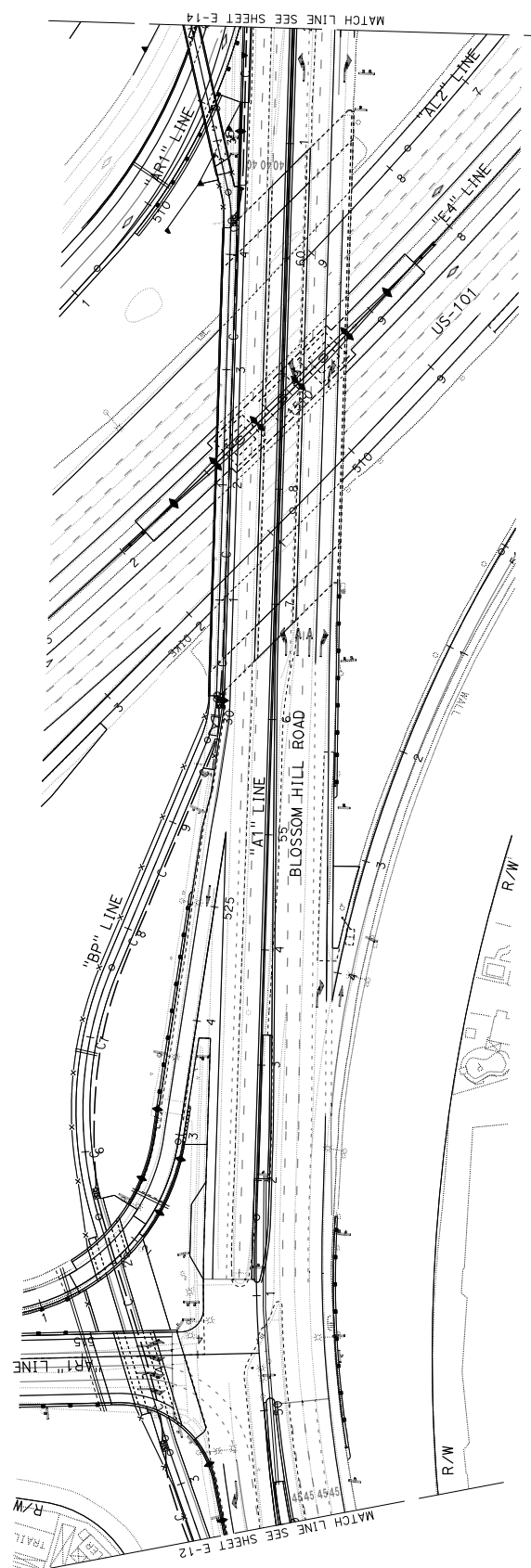
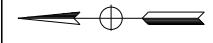


DETAIL A1: 1"=10'

INTERCONNECTION CONDUIT AND CABLE E-13
 SCALE: 1"=50'

APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
04	SCI	101	R28.4/R28.9	228 345
DAVID C. MAHAMA REGISTERED CIVIL ENGINEER DATE 03/06/20 March 6, 2020 PLANS APPROVAL DATE				
THE STATE OF CALIFORNIA DOES NOT WARRANT OR AGENT'S SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY INFORMATION OR DATA OF ANY KIND PROVIDED TO OR BY ANY PARTY IN CONNECTION WITH THIS PLAN SHEET.				
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION SUITE 740 200 E. SANTA CLARA STREET OAKLAND, CA 94612				



INTERCONNECTION CONDUIT AND CABLE E-14

SCALE: 1"=50'

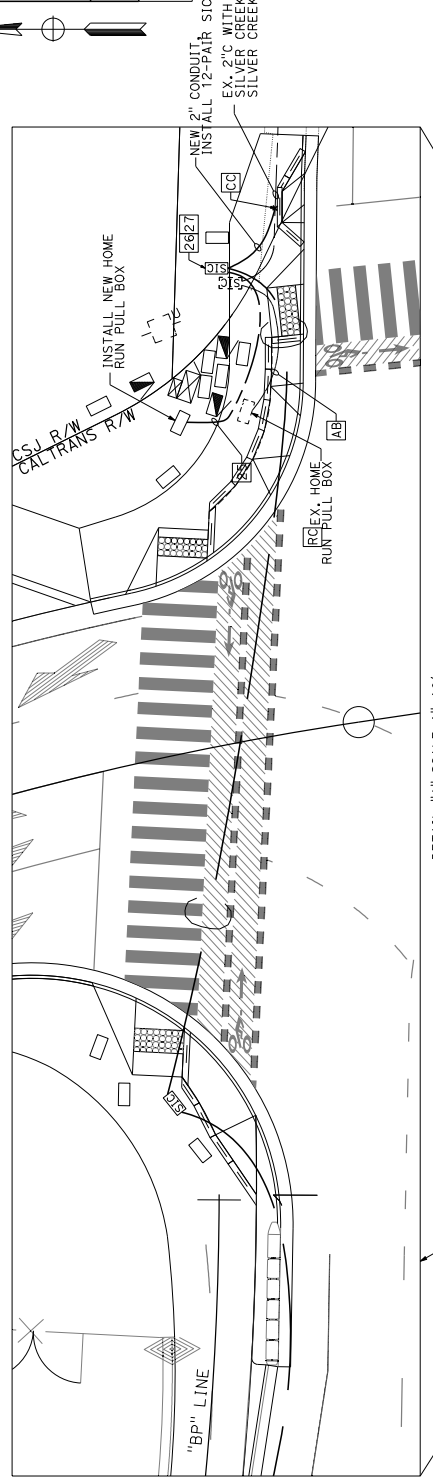
APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	DAVID MAHAMA	CHECKED BY	MARIA TRIBELHORN	DATE REVISED	
	DESIGNED BY	JIELIN PAN	REVISOR			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
04	SCI	101	R28.4/R28.9	229 345

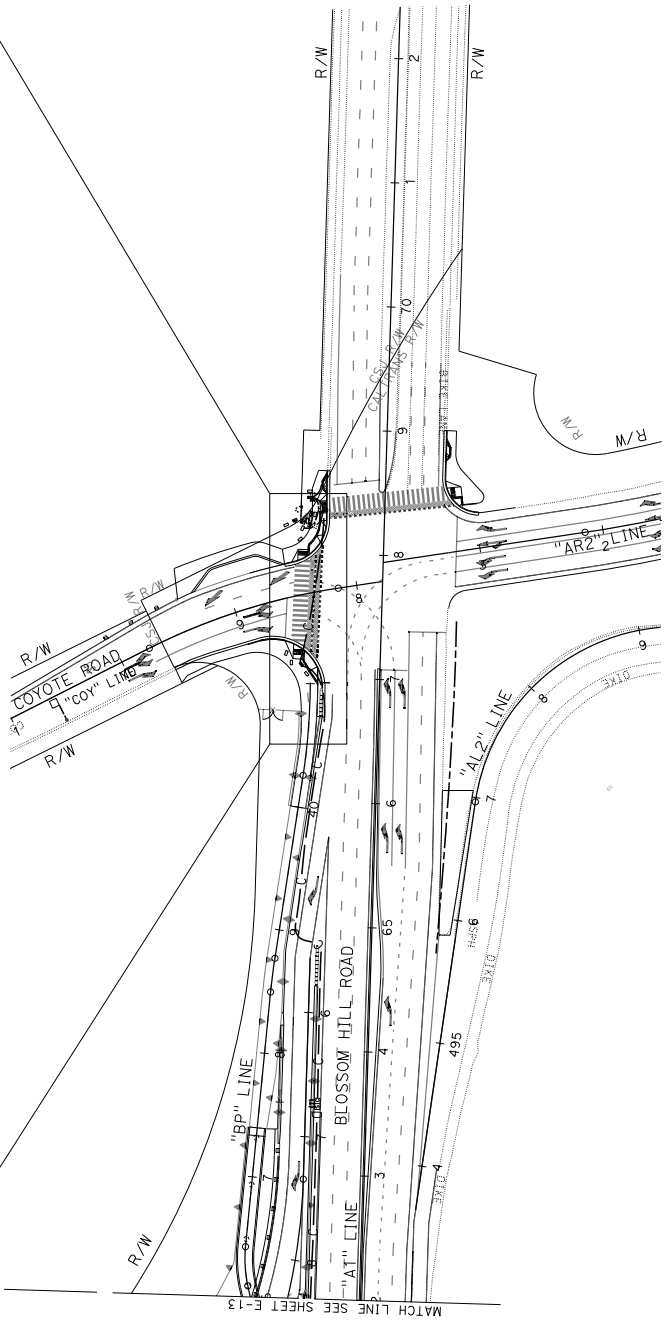
DAVID C. MAHAMA
 REGISTERED CIVIL ENGINEER
 DATE 03/06/20
 REGISTRATION No. 199964
 Exp. 9/30/20
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER

CITY OF SAN JOSE
 DEPARTMENT OF TRANSPORTATION
 200 E. SANTA CLARA STREET
 SAN JOSE, CA 95113



DETAIL "A" SCALE 1"=10'

SEE SHEET E-5 FOR TRAFFIC SIGNAL PLAN



INTERCONNECTION CONDUIT AND CABLE E-15
 SCALE: 1"=50'

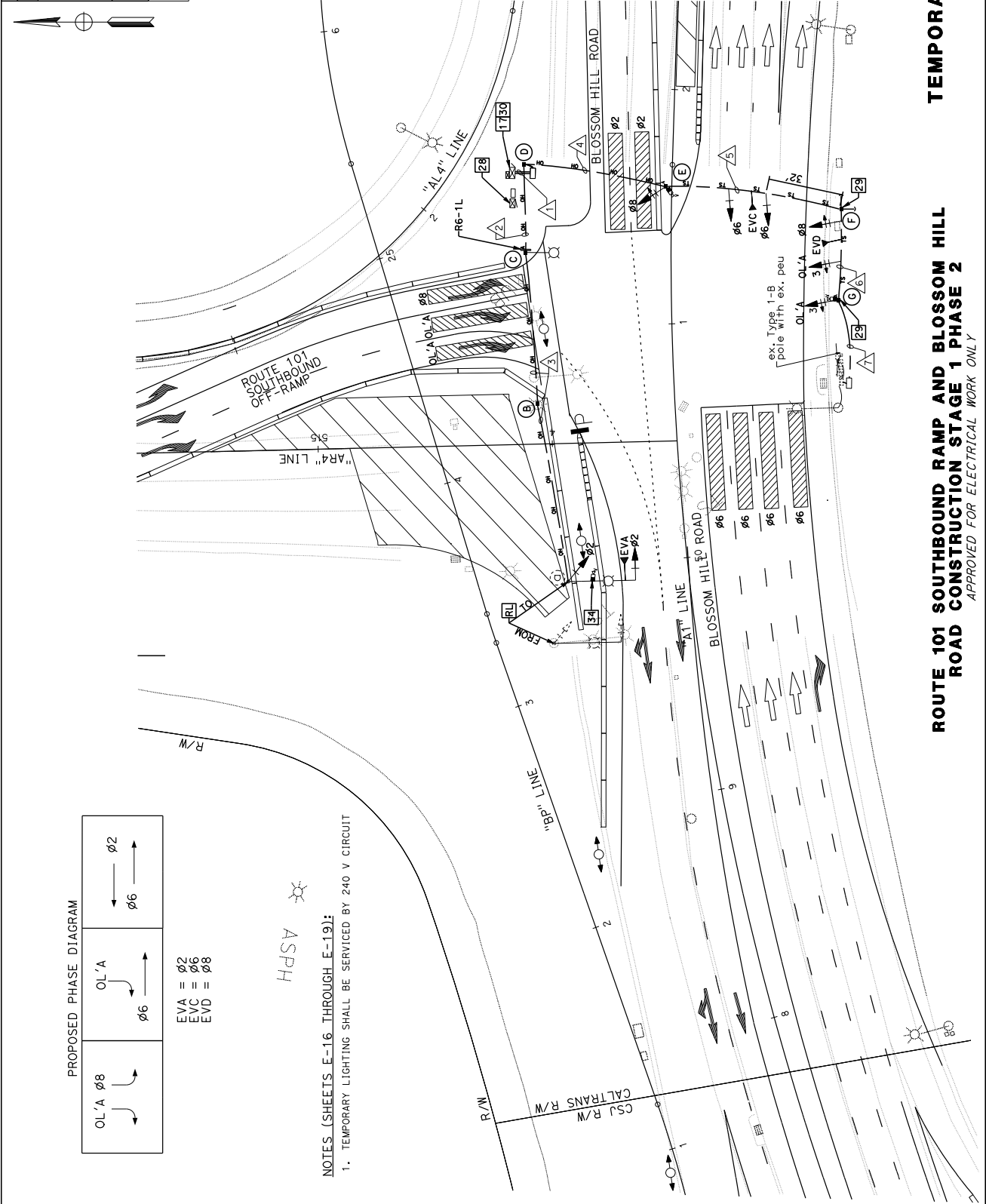
APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	DAVID MAHAMA	CHECKED BY	MARIA TRIBELHORN	DATE REVISED
	DESIGNED BY	JIELIN PAN	REVISD BY		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	DAVID MAHAMA	CHECKED BY	MARIA TRIBELHORN	DATE REVISED	
	DESIGNED BY	JIELIN PAN	REVISOR			

BORDER LAST REVISED 7/2/2010
 USERNAME => done.rini
 DON FILE => E16.temporaryTraffic1.dgn
 PROJECT NUMBER & PHASE 0000000001

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS
04	SCI	101	R28.4/R28.9	230 345
DAVID C. MAHAMA REGISTERED CIVIL ENGINEER DATE 03/06/20 March 6, 2020 PLANS APPROVAL DATE THE STATE OF CALIFORNIA BY ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS OR FOR THE CONSEQUENCES OF ANY ERRORS OR OMISSIONS OF THIS PLAN SHEET.				
DIVISION OF PROFESSIONAL ENGINEERS REGISTERED CIVIL ENGINEER No. 133864 Exp. 9/30/20 CIVIL STATE OF CALIFORNIA				
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95113				



REVISOR		DATE REVISED	
DESIGNED BY	JIELIN PAN	CHECKED BY	MARIA TRIBELHORN

BORDER LAST REVISED 7/2/2010
 USERNAME => done.rini
 DON FILE => E16.temporaryTraffic1.dgn

TEMPORARY SIGNAL SYSTEM
 SCALE: 1"=20'

ROUTE 101 SOUTHBOUND RAMP AND BLOSSOM HILL ROAD CONSTRUCTION STAGE 1 PHASE 2
 APPROVED FOR ELECTRICAL WORK ONLY

UNIT 0000
 PROJECT NUMBER & PHASE 0000000001

DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	R28.4/R28.9	231	345
DAVID C. MAHAMA REGISTERED CIVIL ENGINEER DATE 03/06/20 March 6, 2020 PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY INFORMATION CONTAINED ON THIS PLAN SHEET.					
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95113					

CONDUIT AND CONDUCTOR SCHEDULE

AWG	CONDUCTOR RUNS	NUMBER OF CONDUCTORS					
		1	2	3	4	5	6
OL'A		3	3	3	3	3	3
#2		3	3	3	3	3	3
#6		3	3	3	3	3	3
#8		3	3	3	3	3	3
SPARES		3	3	3	3	3	3
TOTAL #14		15	15	15	15	15	15
TRAFFIC SIGNAL COMMON							
#10 LUMINAIRE		2	1	1	1	1	1
TOTAL #10		2	2	2	2	2	2
#6 TRAFFIC SIGNAL SERVICE		2	-	-	2	2	2
EVP		3	1	1	2	2	1
CAT6 (VIVDS)		3	1	1	2	2	1
PROJECTED DEPTH OF BUNDLE(IN)		-	1.3	1.3	1.9	1.8	1.6
APPROXIMATE BUNDLE WEIGHT(LB/FT)		-	0.64	0.64	1.09	1.05	0.94
CONDUIT FILL (%)		3%	-	-	-	-	2%
CONDUIT SIZE		2-4"	-	-	-	-	3"

ALL CONDUITS AND CONDUCTORS ARE NEW.

POLE AND EQUIPMENT SCHEDULE

No.	TYPE	LMA	LUM (LED)	φ	VEHICLE SIGNAL MOUNTING	FOUNDATION DETAIL	SPECIAL REQUIREMENTS*
(G)	19-1-100(E)	12'	137W(E)	2	SV-1-T	CT RSP ES-18A	REMOVE EXISTING PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON INSTALL TEMP VIDEO DETECTION ON LUMINAIRE MAST-ARM.
(B)	TEMP WOOD POLE	-	-	-	-	CT RSP ES-18A	-
(C)	TEMP WOOD POLE	15'	TYPE 1	-	-	EL-18A	-
(D)	TEMP WOOD POLE	-	-	-	-	CT RSP ES-18A	-
(E)	TEMP WOOD POLE	-	-	8	SV-1-T	CT RSP ES-18A	INSTALL TEMP POLE-MOUNTED VIDEO DETECTION
(F)	TEMP WOOD POLE	-	-	-	-	CT RSP ES-18A	-
(G)	TEMP WOOD POLE	-	-	OL'A	SV-1-T	CT RSP ES-18A	INSTALL TEMP POLE-MOUNTED VIDEO DETECTION

* OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
 (E) EXISTING MOUNTING/PEDESTRIAN SIGNAL HEAD/STREET LIGHTING FIXTURE.

ROUTE 101 SOUTHBOUND RAMP AND BLOSSOM HILL ROAD CONSTRUCTION STAGE 1 PHASE 2

APPROVED FOR ELECTRICAL WORK ONLY

TEMPORARY SIGNAL SYSTEM E-17

SCALE: N/A

DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS
04	SCI	101	R28.4/R28.9	233 345
DAVID C. MAHAMA REGISTERED CIVIL ENGINEER DATE 03/06/20 March 6, 2020 PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET. REGISTERED PROFESSIONAL ENGINEER No. 1599864 Exp. 9/30/20 CIVIL ENGINEER STATE OF CALIFORNIA CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET OAKLAND, CA 94612 SAN JOSE, CA 95113				

CONDUIT AND CONDUCTOR SCHEDULE

AWG	CONDUCTOR RUNS	NUMBER OF CONDUCTORS					
		△	△	△	△	△	△
OL'A	3	3	3	3	3	3	3
#2	3	3	3	3	3	3	3
#8	3	3	3	3	3	3	3
SEPARES	3	3	3	3	3	3	3
TOTAL #14	18	18	18	15	15	12	-
TRAFFIC SIGNAL COMMON							
#10 LUMINAIRE	1	1	1	1	1	1	1
TOTAL #10	2	2	2	2	2	2	2
#6 TRAFFIC SIGNAL SERVICE	2	2	2	2	2	2	2
EVP CAT6 (VIVDS)	3	3	3	3	3	3	3
PROJECTED DEPTH OF BUNDLE (IN)	-	2.4	-	-	-	-	0.6
APPROXIMATE BUNDLE WEIGHT (LB/FT)	-	1.32	11%	8%	7%	5%	0.37
CONDUIT FILL (%)	3%	2-4"	-	3"	3"	3"	3"
CONDUIT SIZE	2-4"	-	-	-	-	-	-

ALL CONDUITS AND CONDUCTORS ARE NEW.

POLE AND EQUIPMENT SCHEDULE

No.	TYPE	SMA	LMA	LUM (LED)	VEHICLE SIGNAL MOUNTING		FOUNDATION DETAIL	SPECIAL REQUIREMENTS*
					MAST ARM	POLE		
(A)	19-4-100 TEMP PORTABLE TRAFFIC SIGNAL	30'	15'	TYPE 1	MAS	2, 6 SV-1-T	-	-
(B)	TEMP WOOD POLE	-	-	TYPE 1	-	2, OL'A	-	-
(C)	TEMP WOOD POLE	-	-	TYPE 1	-	-	-	-
(D)	TEMP WOOD POLE	-	-	TYPE 1	-	-	CTRSP ES-18A	-
(E)	TEMP WOOD POLE	-	-	TYPE 1	-	-	CTRSP ES-18A	-
(F)	TEMP WOOD POLE	-	-	TYPE 1	-	-	CTRSP ES-18A	-
(G)	29-5-100	50'	15'	TYPE 1	MAS	6, 8 SV-1-T	-	CUSTOM MAST-ARM LENGTH
(H)	29-5-100	40'	15'	TYPE 1	MAS	OL'A, 6, 8 SV-2-TB	-	FURNISH AND INSTALL TISNS Blossom Hill Rd"

* OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.

ROUTE 101 SOUTHBOUND RAMP AND BLOSSOM HILL ROAD CONSTRUCTION STAGE 1 PHASE 3 AND 4

TEMPORARY SIGNAL SYSTEM E-19

SCALE: N/A

DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS
04	SCI	101	R28.4/R28.9	234 345

DAVID C. MAHAMA
REGISTERED CIVIL ENGINEER DATE 03/06/20

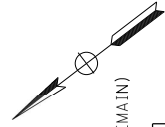
March 6, 2020
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA BY ITS OFFICERS
WHOSE NAMES ARE LISTED BELOW IS HEREBY
CERTIFIED THAT THIS PLAN SHEET
IS IN ACCORDANCE WITH THE
PROVISIONS OF THE CIVIL
ENGINEERING ACT.

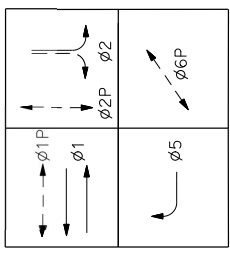
DAVID C. MAHAMA
No. 198864
Exp. 12/30/20
CIVIL
REGISTERED PROFESSIONAL ENGINEER

CITY OF SAN JOSE
DEPARTMENT OF TRANSPORTATION
SUIITE 740
200 E. SANTA CLARA STREET
SAN JOSE, CA 95113

CSJ PW ELECTRICAL
CSJ DOT ITS
CSJ DOT TRAFFIC SIGNALS
CSJ DOT GEOMETRICS

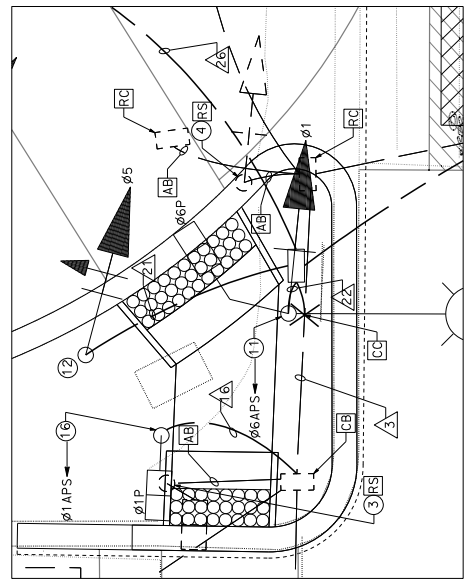
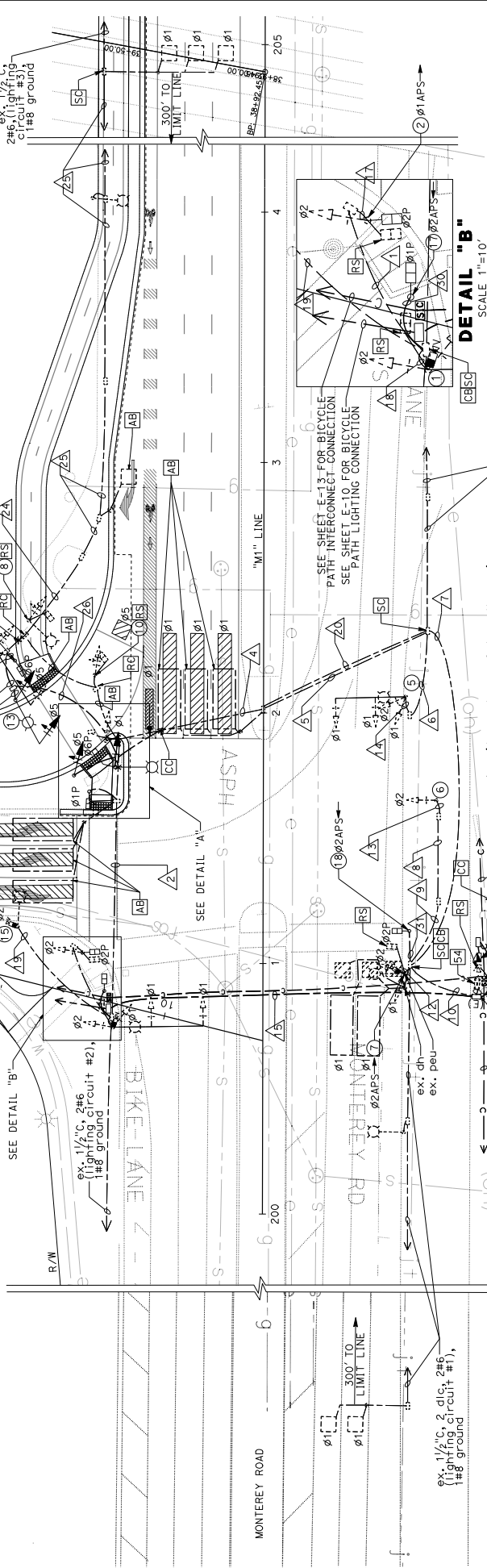


EXISTING PHASE DIAGRAM (TO REMAIN)

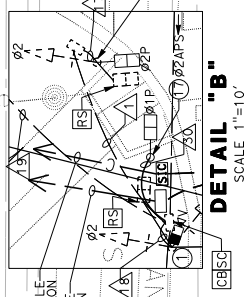


ex. 2 $\frac{1}{2}$ "C lighting circuit #3, 1#8 ground

NOTES (SHEET E-20, E-21):
1. ALL WORK ON SHEETS E-20 & E-21 SHALL CONFORM WITH CITY
OF SAN JOSE STANDARD PLANS AND STANDARD SPECIFICATIONS.



DETAIL "A"
SCALE 1"=5'



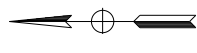
DETAIL "B"
SCALE 1"=10'

**SIGNAL AND LIGHTING
(CITY OF SAN JOSE)**
SCALE: 1"=20'

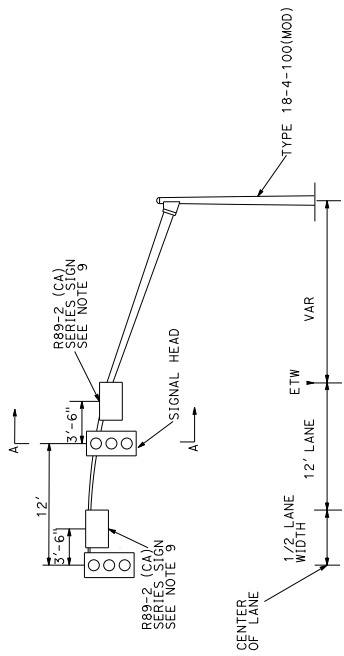
MONTEREY ROAD AND BLOSSOM HILL ROAD (SHOP # 242)
APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	DESIGNED BY	CHECKED BY
DATE REVISION	REVISION	DATE REVISION	REVISION

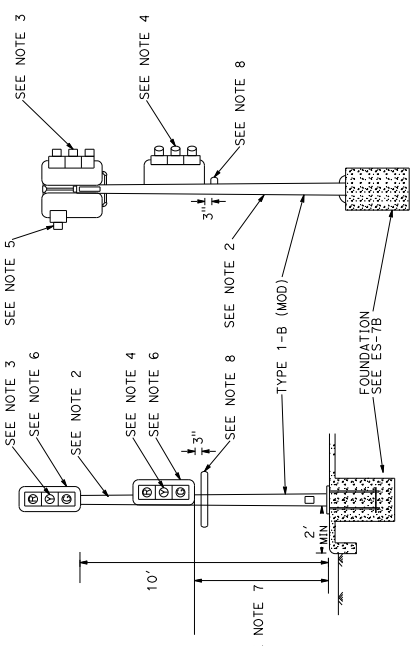
DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS
04	SCI	101	R29.4/R28.9	236 345
DAVID C. MAHAMA REGISTERED CIVIL ENGINEER DATE 00/08/29 March 6, 2020 PLANS APPROVAL DATE THE STATE OF CALIFORNIA AND ITS OFFICERS AND AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET.				
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95113				



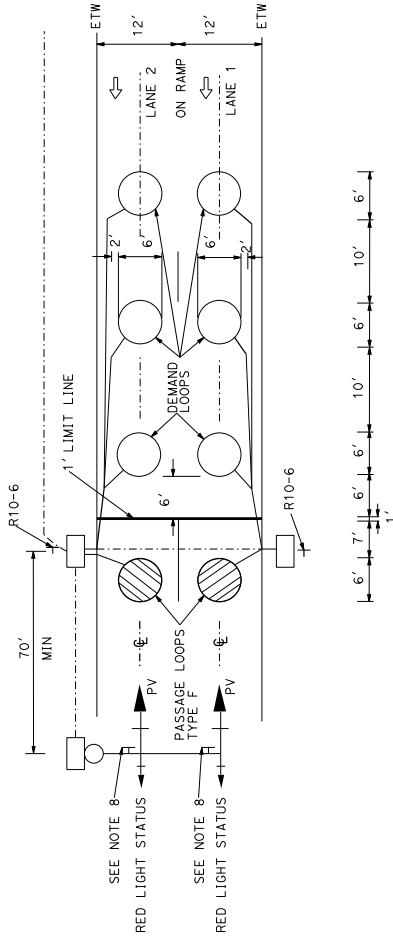
- NOTES: (THIS SHEET ONLY)**
- SEE CALTRANS 2018 STANDARD PLANS ES-5A, ES-5B AND ES-5D FOR ADDITIONAL LOOP DETECTOR INFORMATION NOT SHOWN.
 - TYPE 1-B (MOD), INSTALL ANCHOR BOLTS WITH SLEEVE NUTS (SEE CALTRANS 2018 STANDARD PLAN ES-7B).
 - 3-SECTION 12" SIGNAL HEAD (RED, YELLOW, GREEN), 18"X12" ANGLED VISORS REQUIRED WHERE SHOWN, TYPE TV-2-T POST-TOP MOUNT.
 - 3-SECTION 8" SIGNAL HEAD (RED, YELLOW, GREEN), 30" FULL CIRCLE VISORS TYPE TV-1-T BRACKET MOUNT ON SIDE OF STANDARD AWAY FROM TRAFFIC.
 - 1-SECTION 8" SIGNAL HEAD (RED), 8" FULL CIRCLE VISOR, RED STATUS LIGHT, TYPE TV-2-T POST-TOP MOUNT.
 - BACKPLATE
 - 4'-6" ABOVE LANE CENTER LINE
 - FURNISH AND INSTALL SINGLE SHEET ALUMINUM (0.063"-UNFRAMED), SEE SIGN QUANTITIES, R89 22" X 6" (1 CAR PER GREEN) FOR ONE LANE ON TYPE 1-B STANDARD.
 - FURNISH AND INSTALL SINGLE SHEET ALUMINUM (0.063"-UNFRAMED), SEE SIGN QUANTITIES, R89-2 36" X 16" (1 CAR PER GREEN THIS LANE) FOR TWO LANE ON MAST ARM AS APPLICABLE.
 - FOR FLASHING BEACON CONTROL ASSEMBLY WIRING DIAGRAM, SEE CALTRANS 2018 STANDARD PLAN ES-14B DETAIL B.



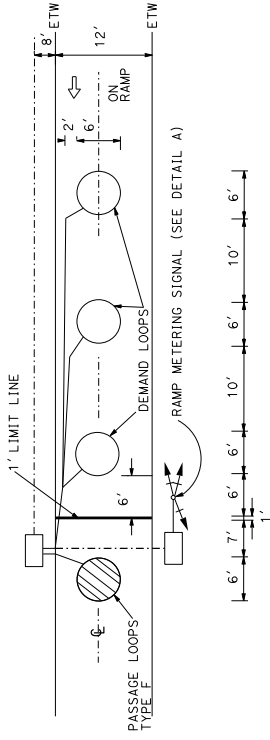
2-LANE ENTRANCE RAMP METERING INSTALLATION DETAIL B



RAMP METERING SIGNAL DETAIL A



TYPICAL 2-LANE RAMP METERING INSTALLATION DETAIL C

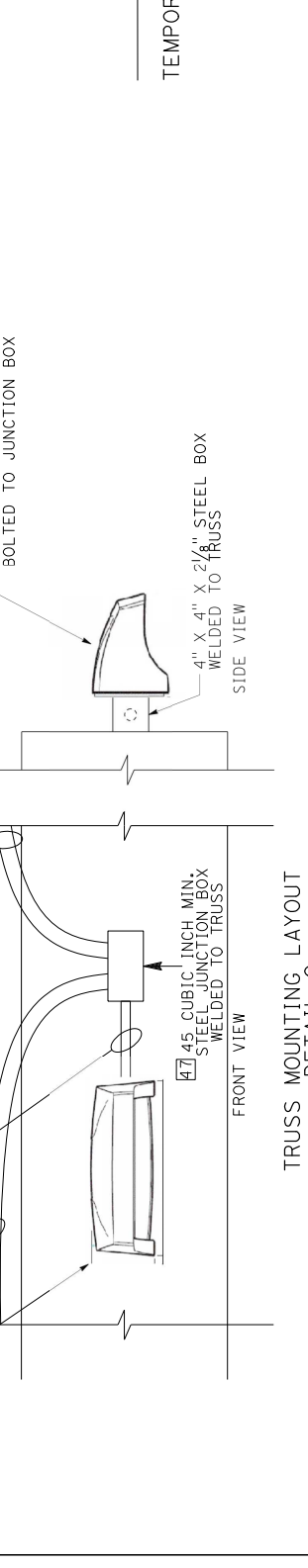
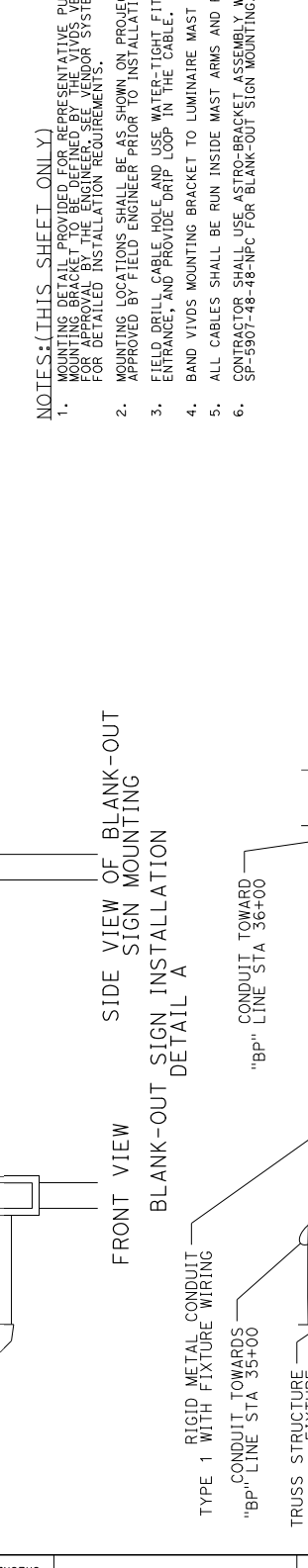
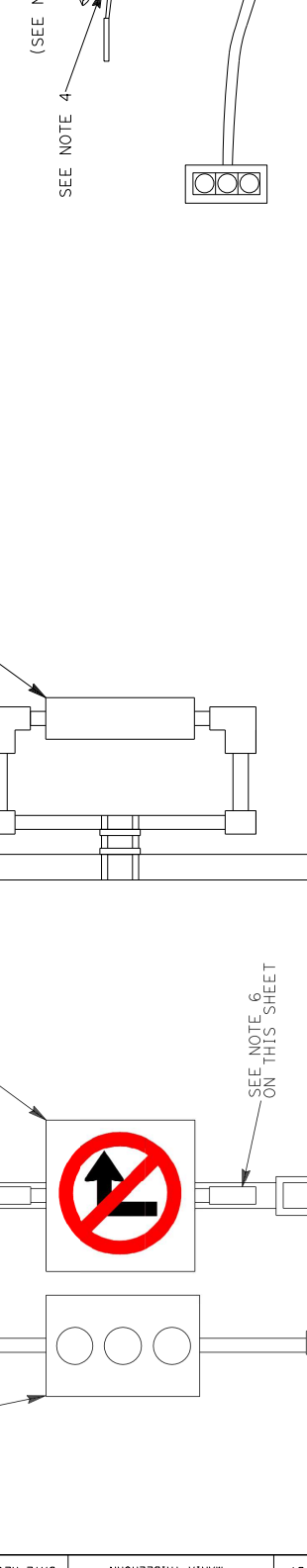
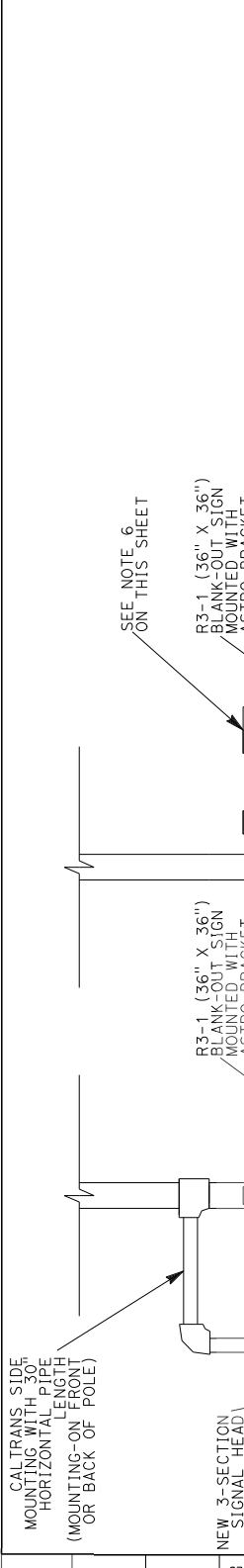


TYPICAL 1-LANE RAMP METERING INSTALLATION DETAIL D

RAMP METERING SYSTEM
APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL DETAILS
SCALE: N/A **ED-1**

04	SCI	101	R28.4/R28.9	237	345
DAVID C. MAHAMA		03/06/20			
REGISTERED CIVIL ENGINEER		DATE			
March 6, 2020		PLANS APPROVAL DATE			
THE STATE OF CALIFORNIA		BY REGISTERED PROFESSIONAL ENGINEER			
DAVID C. MAHAMA		No. 199964		CIVIL	
Exp. 9/30/26		STATE OF CALIFORNIA			
CITY OF SAN JOSE		DEPARTMENT OF TRANSPORTATION			
1970 BROADWAY		SUITE 740		OAKLAND, CA 94612	
200 E. SANTA CLARA STREET		SAN JOSE, CA 95113			



- NOTES: (THIS SHEET ONLY)
1. MOUNTING DETAIL PROVIDED FOR REPRESENTATIVE PURPOSES. ACTUAL MOUNTING BRACKET TO BE DEFINED BY THE VIDEOS VENDOR AND SUBMITTED FOR APPROVAL BY THE ENGINEER. SEE VENDOR SYSTEM INSTALLATION GUIDE FOR DETAILED INSTALLATION REQUIREMENTS.
 2. MOUNTING LOCATIONS SHALL BE AS SHOWN ON PROJECT PLANS AND AS APPROVED BY FIELD ENGINEER PRIOR TO INSTALLATION.
 3. FIELD DRILL CABLE HOLE AND USE WATER-TIGHT FITTINGS FOR CABLE ENTRANCE, AND PROVIDE DRIP LOOP IN THE CABLE.
 4. BAND VIDEOS MOUNTING BRACKET TO LUMINAIRE MAST ARM.
 5. ALL CABLES SHALL BE RUN INSIDE MAST ARMS AND POLES.
 6. CONTRACTOR SHALL USE ASTRO-BRACKET ASSEMBLY WITH CAST NIPPLES SP-5907-48-NPC FOR BLANK-OUT SIGN MOUNTING.

04	SCI	101	R28.4/R28.9	239	345
POST MILES TOTAL PROJECT SHEET TOTAL SHEETS ROUTE NO. PROJECT NO. SHEETS					
DAVID C. MAHAMA REGISTERED CIVIL ENGINEER DATE 03/06/20					
March 6, 2020 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA AND ITS OFFICERS AND AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY COPIES OF THIS PLAN SHEET.					
DIVISION OF PROFESSIONAL ENGINEERS CIVIL ENGINEERING					
CITY OF SAN JOSE DEPARTMENT OF TRANSPORTATION 200 E. SANTA CLARA STREET SAN JOSE, CA 95113					

NOTES:

ELECTRICAL SYSTEMS QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS. SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS NEEDED FOR EACH SYSTEM.
 ALL NEW SIC CONDUIT SHALL BE 3" AND HAVE 25-PAIR SIC CABLE AND 3", 3-CELL INNERDUCT. 12-PAIR SIC CABLE AT CAYOTE ROAD INTERSECTION DOES NOT REACH NEW CONTROLLER CABINET WITH STACK. ENTIRE 12-PAIR SIC CABLE SHALL BE REPLACED WITH 25-PAIR SIC CABLE TO THE TRAFFIC CONTROLLER CABINET LOCATED AT THE INTERSECTION OF SILVER CREEK VALLEY RD/SILVER CREEK VALLEY PL.

INTERCONNECTION CONDUIT AND CABLE SYSTEM

SHEET NO.	NO. 6 FULL BOX	25-PAIR SIC CABLE	3" CONDUIT WITH 3" 3-CELL INNERDUCT	EA	LF
E-13	5	1500	1350		
E-14	4	1400	1350		
E-15	2	750	685		

LIGHTING SYSTEM

SHEET NO.	CITY OF SAN JOSE	TRUSS MOUNTED LIGHTING FIXTURE	TRUSS MOUNTED LIGHTING FIXTURE	TRUSS MOUNTED LIGHTING FIXTURE	TRUSS MOUNTED LIGHTING FIXTURE	2" CONDUIT	NO. 6 CONDUCTOR
E-10	0	13	0	0	0	1560	4680
E-11	3	17	2	11	4	2050	6150
E-12	0	4	0	1	0	550	1650

RAMP METERING SYSTEM AND MODIFY RAMP METERING SYSTEM

SHEET NO.	3-SEC, 12" VEH. SIG. HEAD	3-SEC, 8" VEH. SIG. HEAD	1-SEC, 12" FLASHING BEACON	1-SEC, 8" RED STATUS LIGHT	SIG. HEAD MOUNT	SIG. HEAD MOUNT	SIG. HEAD MOUNT	SIG. TV-1-1	SIG. TV-2-1	TYPE 1-B POLE & FOUNDATION	TYPE 18-4-100 POLE & FOUNDATION	NO. 6 PULL BOX	ADJUST PULLBOX TO GRADE	DETECTOR LOOPS (TYPE E/TYPE F)	2" CONDUIT	3" CONDUIT	4" CONDUIT	NO. 6 CONDUCTORS	NO. 8 CONDUCTORS	NO. 10 CONDUCTORS	NO. 12 CONDUCTORS	NO. 14 CONDUCTORS	DETECTOR CABLE (DLC)	W3-7/W3-8 SIGN	R89/R89-2 (CA) SIGN	R10-6 SIGN ON NEW POST	
E-7	1	1	4	1	-	2	4	1	1	5	-	14	-	16	1450	200	-	-	2545	755	2060	675	4400	4	1	-	-
E-8	2	-	3	2	4	-	3	-	-	3	1	13	3	10	1900	-	-	-	2330	4155	480	2320	4330	7780	3	2	2
E-9	1	1	2	1	-	1	1	1	1	2	-	3	9	4	350	300	40	2445	1550	235	1895	930	4575	2	1	-	

TEMPORARY SIGNAL SYSTEM

SHEET NO.	WOOD POLE	VIDEO DETECTION CAMERA	PORTABLE TRAFFIC SIGNAL	VIDEO DETECTION IN TEMP CABINET	3/8" MESSENGER WIRE	NO. 6 CONDUCTORS	NO. 10 CONDUCTORS	NO. 14 CONDUCTORS	EVP CABLE	CAT6 CABLE
E-16	6	3	-	1	485	460	1200	3300	550	650
E-18	-	-	1	-	40	-	80	825	-	50

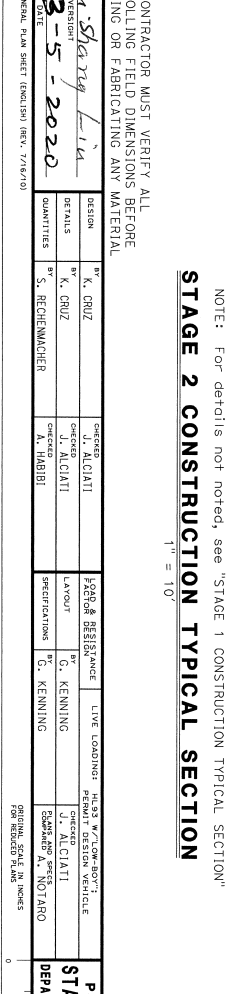
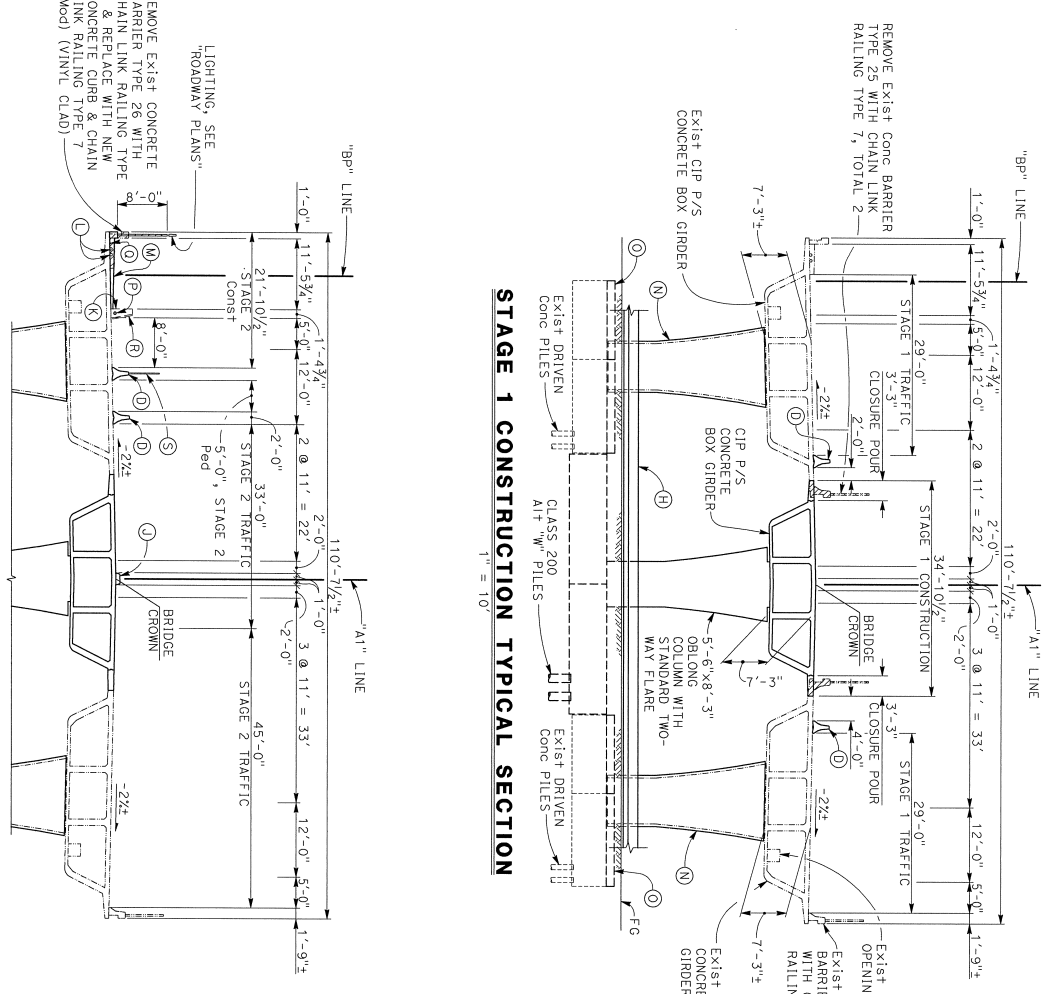
DIST: COUNTY ROUTE POST MILES SHEET TOTAL
 04 SCI 101 R28.4/R28.9 242 345
 REGISTERED STRUCTURAL ENGINEER DATE
 March 6, 2020
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.
 CITY OF SAN JOSE 001
 200 E. SANTA CLARA ST., 9th FLOOR
 SAN JOSE, CA 95133
 BIGGS CARDOSA ASSOCIATES, INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126

LEGEND:
 [Hatched Box] Indicates Bridge Removal (Portion)
 [Dashed Box] Indicates Existing Structure

- NOTES:
- (A) Paint "BRIDGE NO. 37-0348"
 - (B) Paint "BLOSSOM HILL ROAD OC"
 - (C) Structure Approach Type N (300)
 - (D) Temporary Railing Type K, see "Roadway Plans"
 - (E) Existing Slope Paving
 - (F) Remove Existing Slope Paving & construct Slope Paving
 - (G) Existing Catch Basin, see "Roadway Plans"
 - (H) Remove and Replace Existing Barrier, see "Roadway Plans"
 - (I) Remove Existing MGR, see "Roadway Plans"
 - (J) Concrete Median, constructed in Stage 2, Phase 5
 - (K) Concrete Barrier Type 842 (Mod)
 - (L) Exist Fiber Optic Lines, Protect in place
 - (M) Column Retrofit Class F
 - (N) Footing Retrofit
 - (O) 2" Dia conduits with fiber optic future city interconnect, see "Roadway Plans"
 - (P) 2" Dia conduit for lighting, see "Roadway Plans"
 - (R) Architectural Treatment, see "Roadway Plans"
 - (S) Traffic screen, see "ROADWAY PLANS"

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	750 CY
STRUCTURE BACKFILL (BRIDGE)	500 CY
FURNISH PILING (CLASS 200) (ALTERNATIVE W)	4406 LF
DRIVE PILE (CLASS 200) (ALTERNATIVE W)	64 EA
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE FOOTING	275 CY
STRUCTURAL CONCRETE, BRIDGE	800 CY
STRUCTURAL CONCRETE, BRIDGE	330 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	80 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	15 CY
PAVING NOTCH EXTENSION	12 CF
LIGHTWEIGHT CONCRETE	115 CY
ARCHITECTURAL TREATMENT	1440 SQT
DRILL AND BOND DOWEL	315 LF
DRILL AND BOND DOWEL (CHEMICAL ADHESIVE)	1540 LF
CLEAN EXPANSION JOINT	165 LF
JOINT SEAL (TMR = 2/2")	266 LF
JOINT SEAL (TYPE AL)	60 LF
BAR REINFORCING STEEL (BRIDGE)	404,400 LB
HEADED BAR REINFORCEMENT	270 EA
ASPHALT MEMBRANE WATERPROOFING	225 SF
BRIDGE REMOVAL (PORTION)	LUMP SUM
COLUMN CASING	42,100 LB
REMOVE SLOPE PAVING	340 SOVD
MISCELLANEOUS METAL (BRIDGE)	2485 LB
SLOPE PAVING (CONCRETE)	10 CY
CHAIN LINK RAILING (TYPE 7 MODIFIED) (VINYL CLAD)	410 LF
CONCRETE BARRIER TYPE 842 (MODIFIED)	410 LF



REMOVE EXIST CONCRETE BARRIER TYPE 25 WITH CHAIN LINK RAILING TYPE 7 AND REPLACE WITH NEW CONCRETE CURB & CHAIN LINK RAILING TYPE 7 (MOD) (VINYL CLAD)
 LIGHTING, SEE "ROADWAY PLANS"
 NOTE: FOR DETAILS NOT NOTED, SEE "STAGE 1 CONSTRUCTION TYPICAL SECTION"
STAGE 2 CONSTRUCTION TYPICAL SECTION
 1" = 10'

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 PROJECT NUMBER & PHASE: 04160002241
 CONTRACT NO.: 04-1K2804
 UNIT: 0000
 PROJECT ENGINEER: G. KENNING
 DESIGNER: R28.61
 BLOSSOM HILL RD OC (WIDEN)
 GENERAL PLAN NO. 2
 SHEET 2 OF 26

GENERAL NOTES

LOAD & RESISTANCE FACTOR DESIGN

DESIGN: ASHTO LRFD Bridge Design Specifications, 6th Edition with California Amendments, Preface dated January 2014

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC) Version 1.7, dated April 2013

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOAD: HL93 and permit design load

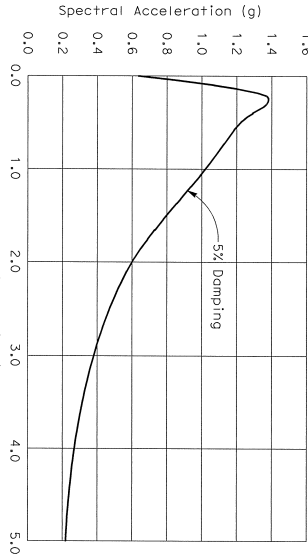
CONCRETE: $f'_c = 60$ ksi (except as shown on "CONCRETE STRENGTH AND TYPE LIMITS" diagram)

EXISTING CONCRETE: $n = 8$

PRESTRESSED CONCRETE: $f_y = 60$ ksi
 $f'_c = 5.0$ ksi (Assumed)

STRUCTURAL STEEL: Steel Pipe Piles: $f_y = 45$ ksi
ASTM A252 Gr-3
Column casing: ASTM A709 or ASTM A36

SEISMIC LOAD: ARS Curve by Caltrans Online
Probabilistic for $V_s 30 = 220$ m/s
Peak Ground Acceleration = 0.63g
With the following modifications:
1. No change of S_0 for structural periods ≤ 1 second
2. 20% increase of S_0 for structural periods ≥ 1 second
3. Linear interpolation for structural periods between 0.5 and 1 second



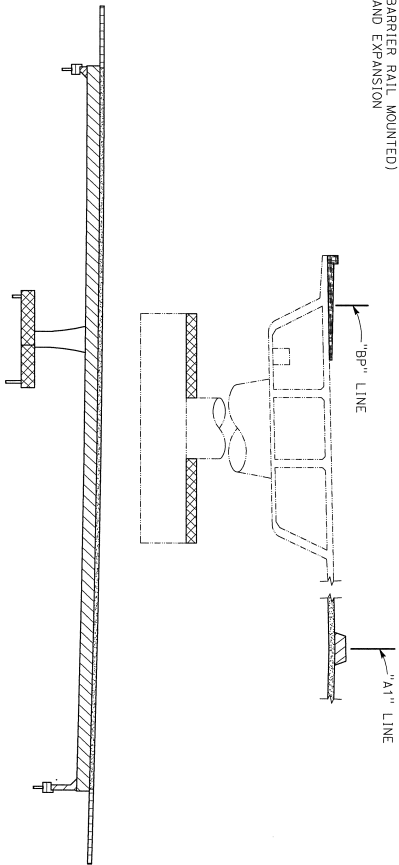
ARS DESIGN CURVE
NO SCALE

2018 STANDARD PLANS

ABBREVIATIONS (SHEET 1 OF 3)	LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)	LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)	LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)	LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)	LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)
A3A	LEGEND - ROCK (SHEET 2 OF 2)	LEGEND - SOIL (SHEET 2 OF 2)	LEGEND - SOIL (SHEET 2 OF 2)	LEGEND - SOIL (SHEET 2 OF 2)	LEGEND - SOIL (SHEET 2 OF 2)
A3B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL PLAN	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL PLAN	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL PLAN	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL PLAN	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL PLAN
A3C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL PLAN	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL PLAN	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL PLAN	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL PLAN	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL PLAN
A10A	TEMPORARY RAILING (TYPE K)	TEMPORARY RAILING (TYPE K)	TEMPORARY RAILING (TYPE K)	TEMPORARY RAILING (TYPE K)	TEMPORARY RAILING (TYPE K)
A10B	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
A10C	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
A10D	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
A10E	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
A10F	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
A10G	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
A10H	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
A10I	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
A10J	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
A62C	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
T3A	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B0-1	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B0-3	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B0-5	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B0-13	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B6-5	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B6-7	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B7-1	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B8-5	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B9-1	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B9-2	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B9-5	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B9-6	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B9-8	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B11-81	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
B11-82	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
ES-60	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS
ES-98	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS	BRIDGE DETAILS

INDEX TO BRIDGE PLANS

SHEET	TITLE
1	GENERAL PLAN No. 1
2	GENERAL PLAN No. 2
3	INDEX TO PLANS
4	FOUNDATION PLAN
5	ABUTMENT 1 LAYOUT
6	ABUTMENT 2 LAYOUT
7	ABUTMENT DETAILS No. 1
8	ABUTMENT DETAILS No. 2
9	ABUTMENT DETAILS No. 3
10	ABUTMENT DETAILS No. 4
11	BENT LAYOUT No. 1
12	BENT LAYOUT No. 2
13	BENT DETAILS No. 1
14	BENT DETAILS No. 2
15	BENT DETAILS No. 3
16	COLUMN CASTING - STEEL
17	TYPICAL SECTION
18	TYPICAL SECTION DETAILS No. 1
19	TYPICAL SECTION DETAILS No. 2
20	GIRDER LAYOUT
21	GIRDER DETAILS No. 1
22	GIRDER DETAILS No. 2
23	LIMITS OF STRUCTURE APPROACH
24	SLOPE PAVING - FULL SLOPE (WOOD) (VINYL CLAD) DETAILS
25	CHAIN LINK RAILING TYPE 7 (WOOD) (VINYL CLAD) DETAILS
26	LOG OF TEST BORINGS 2 OF 2



- STRUCTURAL CONCRETE, BRIDGE ($f'_c = 3.6$ ksi at 28 days)
- STRUCTURAL CONCRETE, BRIDGE, SEE "PRESTRESSING NOTES ON "GIRDER LAYOUT" SHEET
- STRUCTURAL CONCRETE, BRIDGE FOOTING ($f'_c = 3.6$ ksi at 28 days)
- STRUCTURAL CONCRETE, BRIDGE ($f'_c = 5$ ksi at 28 days)
- STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) ($f'_c = 6$ ksi at 28 days)
- STRUCTURAL CONCRETE, BRIDGE FOOTING ($f'_c = 4.5$ ksi at 28 days)
- STRUCTURAL CONCRETE, APPROACH SLAB ($f'_c = 3.6$ ksi at 28 days)
- STRUCTURAL CONCRETE (DRY UNIT WEIGHT = 0.110 kcf, $f'_c = 3.6$ ksi at 28 days)

CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL

DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/13)

DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/13)

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DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/13)

DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/13)

DIST. COUNTY ROUTE POST MILES SHEET TOTAL

04 SCI 101 R28.4/R28.9 243 345

REGISTERED PROFESSIONAL ENGINEER

March 6, 2020

REGISTERED PROFESSIONAL ENGINEER

NO. 2639

DATE 1/20/20

CITY OF SAN JOSE, CA

200 E. SANTA CLARA ST., 4TH FLOOR

SAN JOSE, CA 95131

BIGGS CARROSA ASSOCIATES, INC.

865 THE ALAMEDA

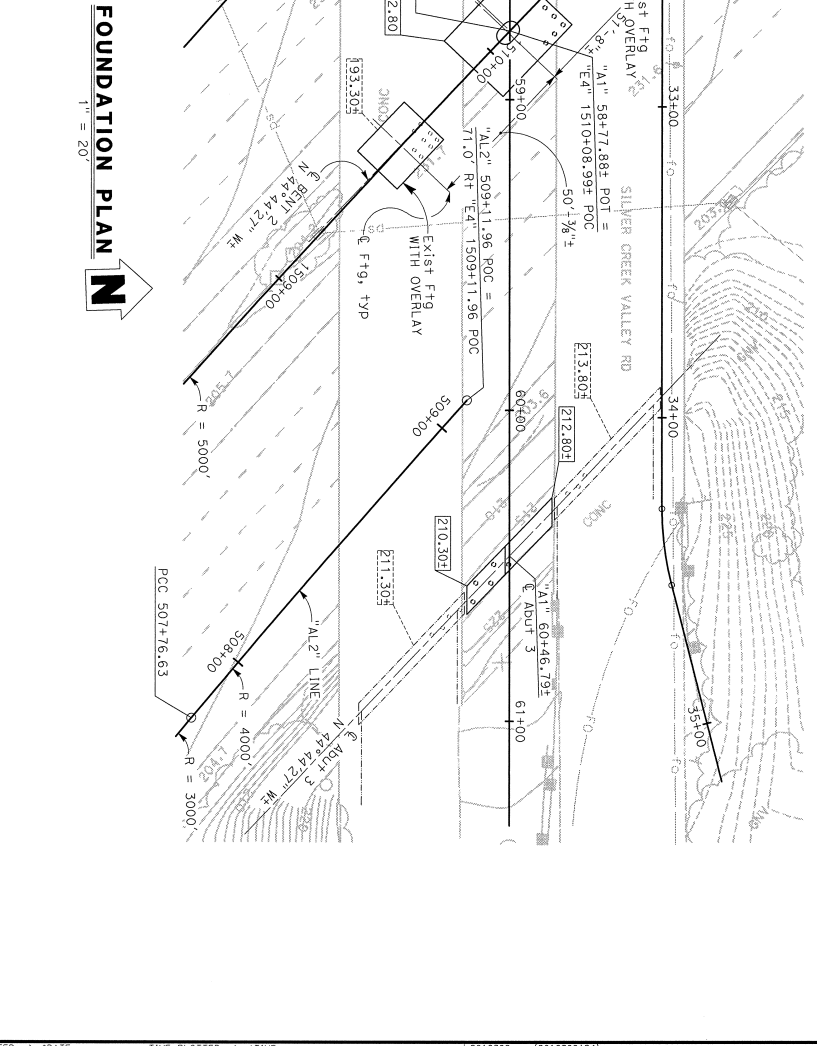
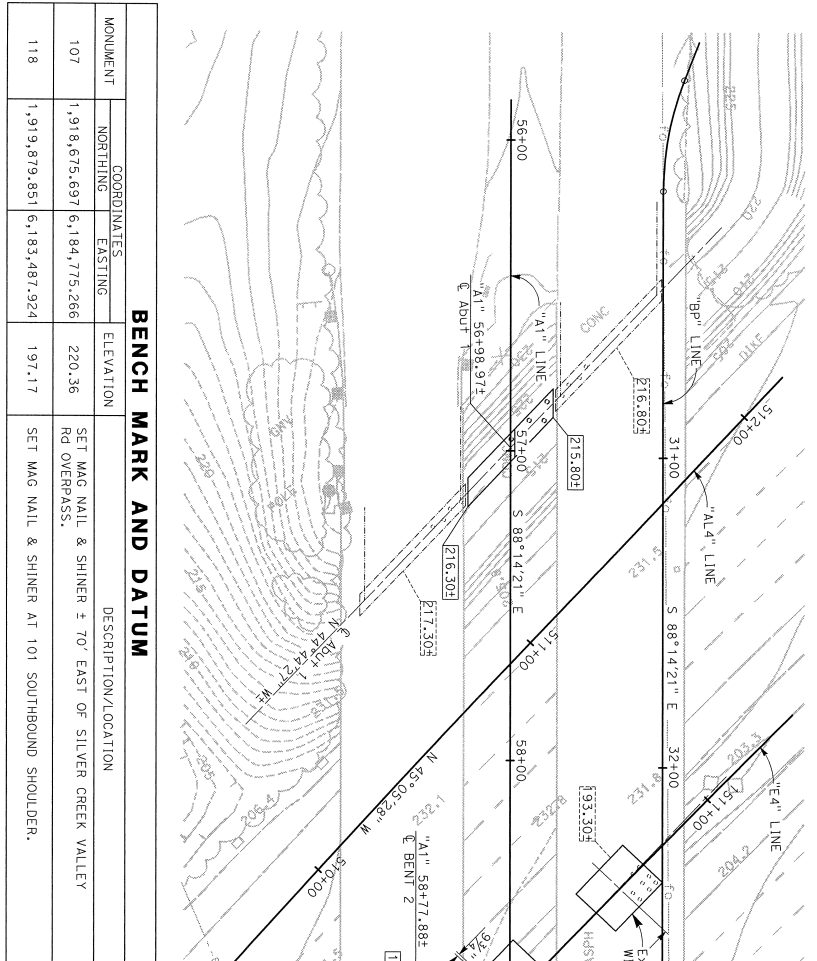
SAN JOSE, CALIFORNIA 95126

LEGEND: - - - - - Indicates Existing Structure

PILE DATA TABLE

LOCATION	PILE TYPE	NOMINAL RESISTANCE (KIIPS)		DESIGN TIP Elev		SPECIFIED TIP Elev (FT)	REQUIRED NOMINAL DRIVING RESISTANCE (KIIPS)
		COMPRESSION	TENSION	(FT)	(FT)		
ABUTMENT 1	CLASS 200 A1+ "W"	430	0	141.0(G); 176.0(G); 180.0(G)	141.0	540	
ABUTMENT 2	CLASS 200 A1+ "W"	350	150	130.0(G); 149.0(G); 143.0(G); 167.0(G)	130.0	470	
ABUTMENT 3	CLASS 200 A1+ "W"	430	0	131.0(G); 163.0(G); 175.0(G)	131.0	550	

- NOTES:
- Design tip elevations for Abutments and Bents are controlled by: (a) Compression, (b) Tension, (c) Settlement, (d) Lateral load.
 - The specified tip elevation must not be raised above the design tip for tension load, lateral load, and tolerable settlement.



BENCH MARK AND DATUM

MONUMENT	COORDINATES		ELEVATION	DESCRIPTION/LOCATION
	NORTHING	EASTING		
107	1,918,675.697	6,184,775.266	220.36	SET MAG NAIL & SHINER ± 70' EAST OF SILVER CREEK VALLEY RD OVERPASS.
118	1,919,879.851	6,183,487.924	197.17	SET MAG NAIL & SHINER AT 101 SOUTHBOUND SHOULDER.

FOUNDATION PLAN

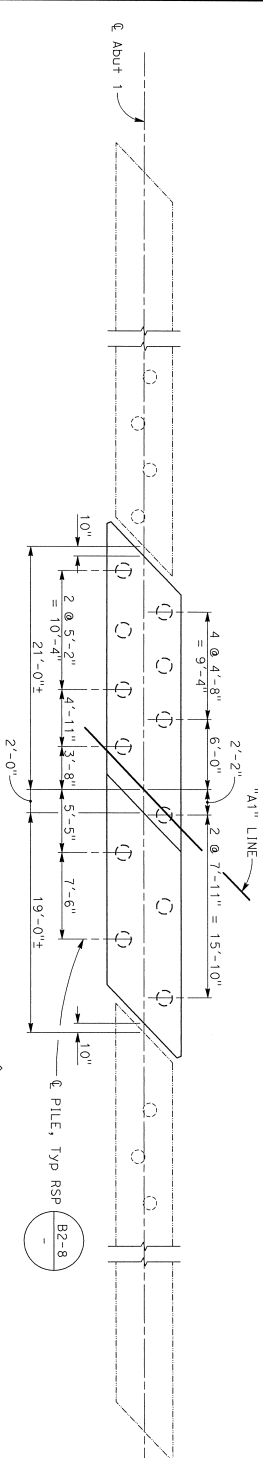
1" = 20'



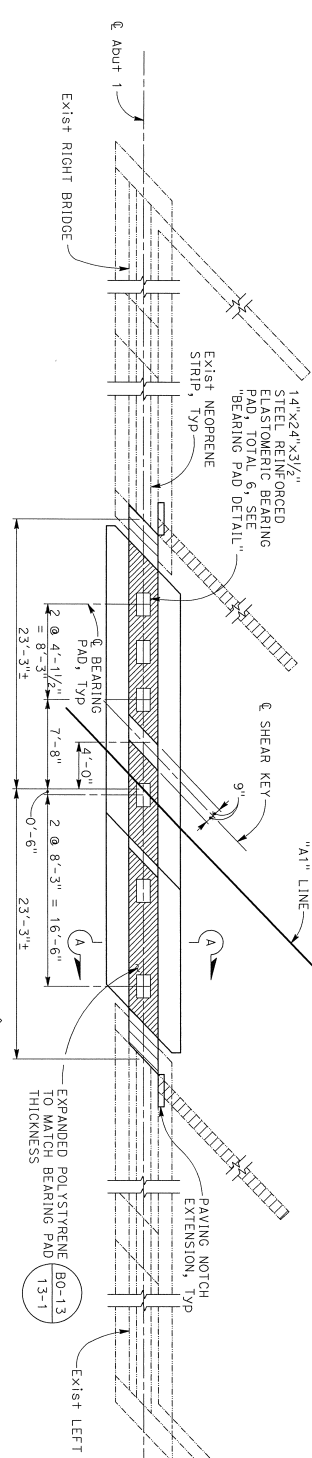
NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGNER	SCALE AS SHOWN	VERT DATUM	NAVORS	PROJ DATUM	CCS83 ZONE 3	DESIGN	BY	K. CRUZ	CHECKED	J. ALCIANTI
DESIGN ORIGINATOR	PHOTO NAME	TR	AS ST	JULY 2016	ALIGNMENT	TR	K. CRUZ	DATE	J. ALCIANTI	DATE
DATE OF DATE	FIELD CHECKED	BY	RADWAN AERIAL	CHECKED	BY	RADWAN AERIAL	QUANTITIES	S. RECHENWACHER	DATE	A. HABI

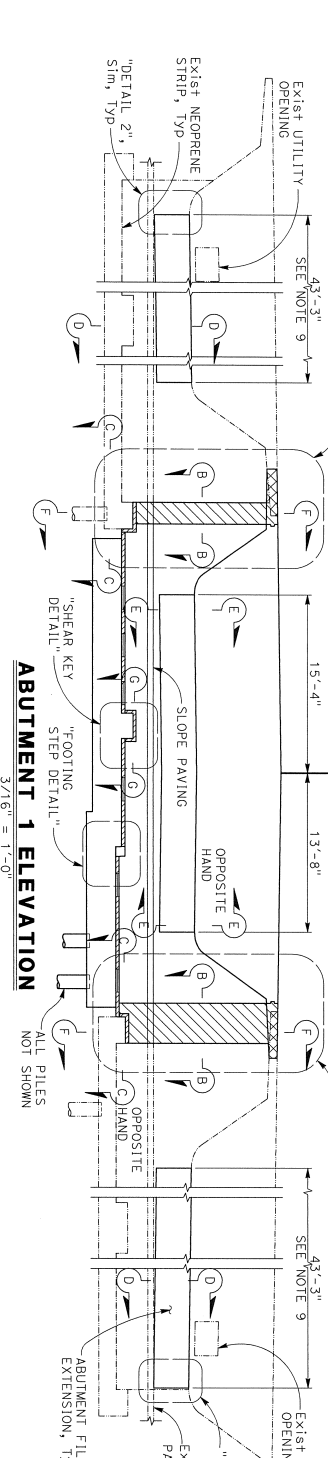
PREPARED FOR THE	STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION
PROJECT NUMBER & PHASE	0000	CONTRACT NO.: 04-1K2804
DESIGNED BY	37-0348	PROJECT WILES
DATE	R26, 61	
REGISTERED PROFESSIONAL ENGINEER	1/20/20	NO. 2639
CITY OF SAN JOSE	200 E. SANTA CLARA ST., 8th FLOOR	SAN JOSE, CA 95131
BIGGS CARBOSA ASSOCIATES, INC.		
865 THE ALAMEDA		
SAN JOSE, CALIFORNIA 95126		



ABUTMENT 1 PILE LAYOUT
3/16" = 1'-0"



ABUTMENT 1 PLAN
3/16" = 1'-0"



ABUTMENT 1 ELEVATION
3/16" = 1'-0"

- LEGEND:
- Indicates Pile
 - Indicates Exist Pile
 - ▨ Indicates Bridge Removal (Partion)
 - ▨ Indicates Closure Pour
 - ▨ Indicates Expanded Polystyrene
 - ▨ Indicates Existing Structure

- NOTES:
1. For wingwall removal details, see "EXISTING MEDIAN WINDOWALL ELEVATION" on "ABUTMENT DETAILS No. 3" sheet.
 2. For "SECTION A-A" and "BEARING PAD DETAIL", see "ABUTMENT DETAILS No. 1" sheet.
 3. For "SECTION B-B", "SECTION C-C", "SECTION D-D", "SECTION E-E", and "DETAIL 2", see "ABUTMENT DETAILS No. 2" sheet.
 4. For "DETAIL 3", and "SECTION F-F", see "ABUTMENT DETAILS No. 3" sheet.
 5. For "SHEAR KEY DETAIL", "FOOTING STEP DETAILS", and "SECTION G-G", see "ABUTMENT DETAILS No. 4" sheet.
 6. Place abutment closure pour after falsework closure pour.
 7. Fill and slope paving in front of abutment must not be placed until after the release of superstructure falsework.
 8. Place backfill after release of superstructure falsework and prior to the deck closure pour. Backfill must be placed simultaneously at both abutments with uniform height. Backfill behind one abutment must not exceed backfill behind the other abutment by more than 2 feet.
 9. Center abutment fillet extension along centerline of existing bridge soffit.

DIST COUNTY ROUTE POST MILES SHEET TOTALS
04 SCI 101 R28.4/R28.9 245 345

Michael Starnes 1/20/20
REGISTERED STRUCTURAL ENGINEER DATE 6/12/13/19

March 6, 2020
PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of assumed copies of this plan sheet.

CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

REGISTERED PROFESSIONAL ENGINEER
No. 2639
6/12/13/19
STATE OF CALIFORNIA

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

DESIGNER: *Shu-Shang Liu*
DESIGN VERSION: 3-5-2020
DATE OF DATE: 3-5-2020

DESIGN	BY: K. CRUZ	CHECKED: J. ALCIATI	PROJECT ENGINEER	BRIDGE NO. 37-038
DETAILS	BY: K. CRUZ	CHECKED: K. ALCIATI	PROJECT ENGINEER	POST MILES R28.45
QUANTITIES	BY: S. RECHENWACHER	CHECKED: A. HARBISI	PROJECT ENGINEER	CONTRACT NO.: 04-1K2804

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/13)

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

UNIT: 0000
PROJECT NUMBER & PHASE: 04160002241

BLOSSOM HILL RD OC (WIDEN)
ABUTMENT 1 LAYOUT

DATE PLOTTED => #DATE
TIME PLOTTED => #TIME

MOVEMENT RATING	"d" DIMENSION
DECK CONCRETE PLACED	
WINTER	1 1/2"
FALL-SPRING	1 1/4"
SUMMER	3/4"

DIST	COUNTY	ROUTE	POST MILE	TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	R28-4/R28-9	247	247	345

REGISTERED STRUCTURAL ENGINEER DATE

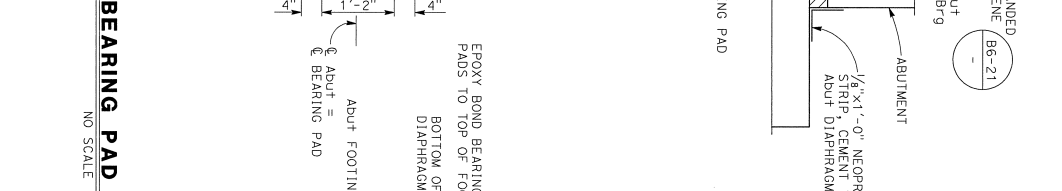
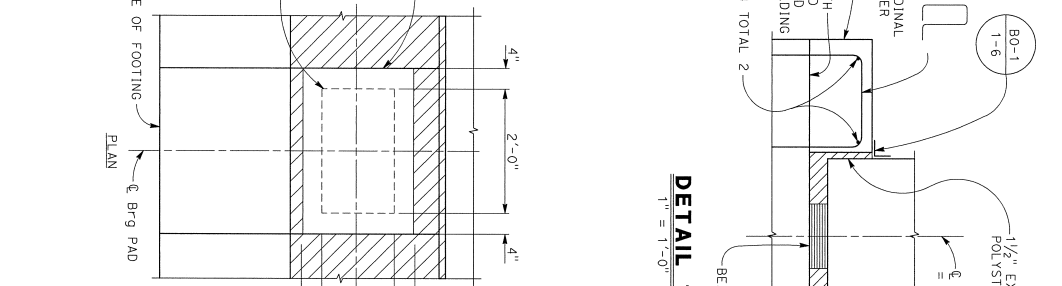
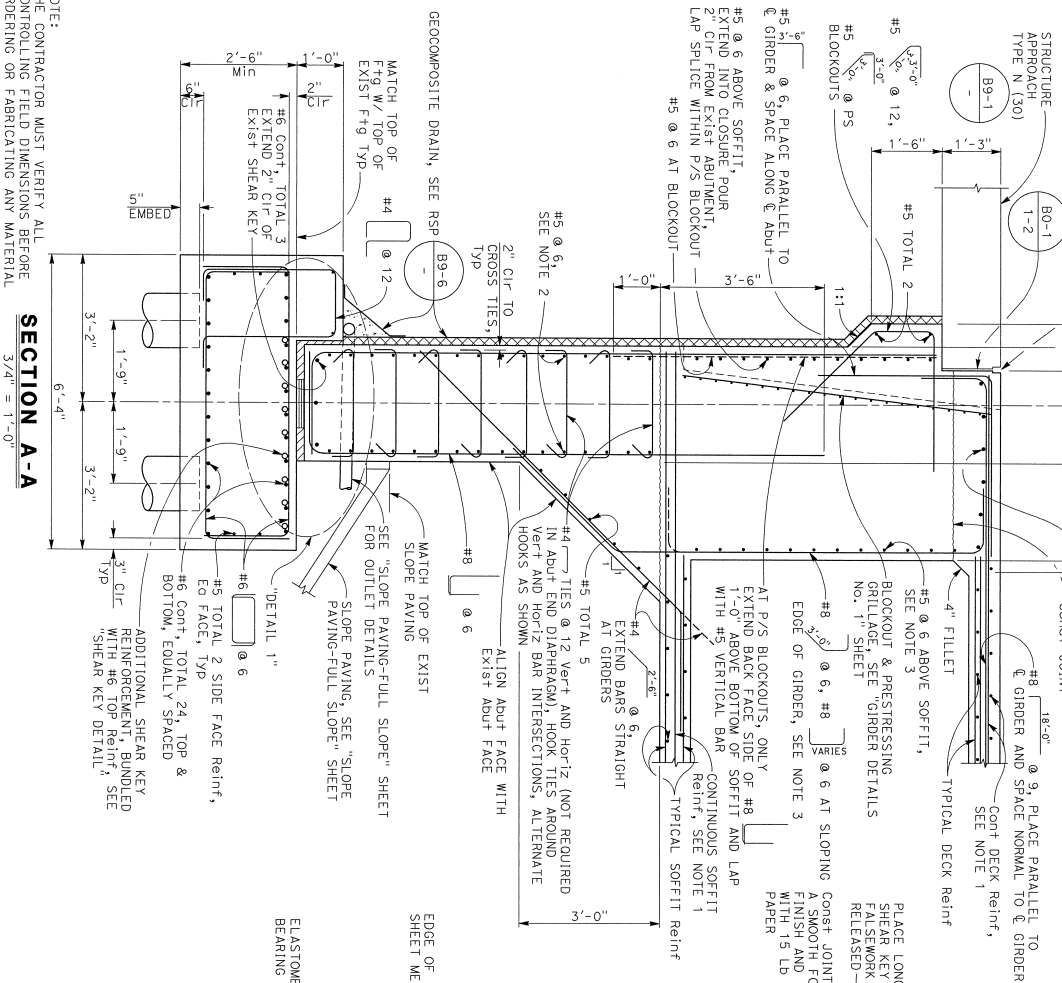
March 6, 2020

PLANS APPROVAL DATE

City of San Jose DOI
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113

BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20
STATE OF CALIFORNIA



NOTES:

- For continuous deck & soffit reinf see "TYPICAL SECTION", "GIRDER DETAILS No. 1" and "GIRDER DETAILS No. 2" sheet.
- Extend horizontal abutment stem reinf above existing shear key and below soffit into existing abutment.
- Adjust spacing of reinf as necessary to avoid conflict w/ prestressing ducts. Total number of reinforcement determined through spacing shown must be maintained and spacing must not exceed 12".
- For "SHEAR KEY DETAIL" see "ABUTMENT DETAILS No. 4" sheet.
- Paving notch must match existing.

LEGEND:

- Indicates Expanded Polystyrene

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SECTION A-A
3/4" = 1'-0"

BEARING PAD DETAIL
NO SCALE

DETAIL 1
1" = 1'-0"

DESIGNER: Sha-Shany Ltd. DESIGN VERSION: 3-5-2020

DESIGN: B. K. CRUZ
DETAILS: B. K. CRUZ
QUANTITIES: S. REICHENMACHER

CHECKED: J. ALCIANTI
DESIGNED: A. CIANTI
CHECKED: A. HABBIBI

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

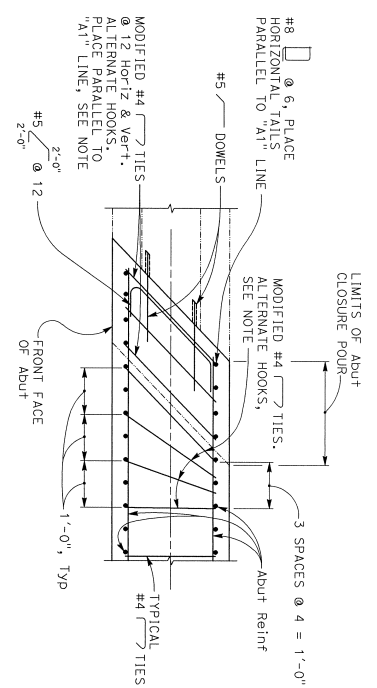
PROJECT ENGINEER: G. KENNING

PROJECT NUMBER & PHASE: 04-11K2804

CONTRACT NO.: 04-11K2804

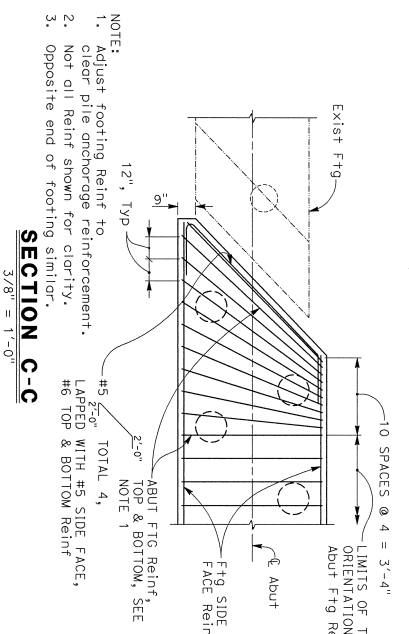
BLOSSOM HILL RD OC (WIDEN)
ABUTMENT DETAILS No. 1

DATE PLOTTED => #DATE
TIME PLOTTED => #TIME



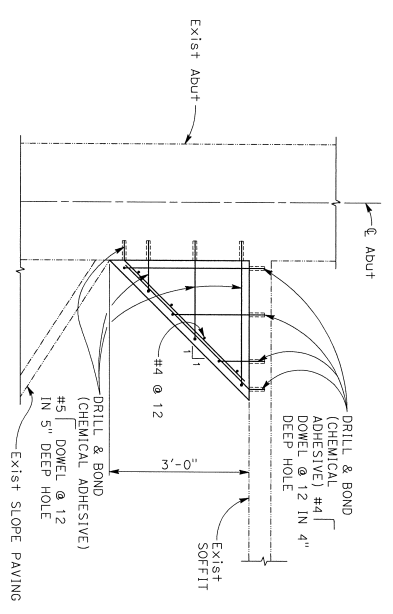
SECTION B-B
3/4" = 1'-0"

NOTE:
Modified ties are to be hooked around horizontal Reinf only.

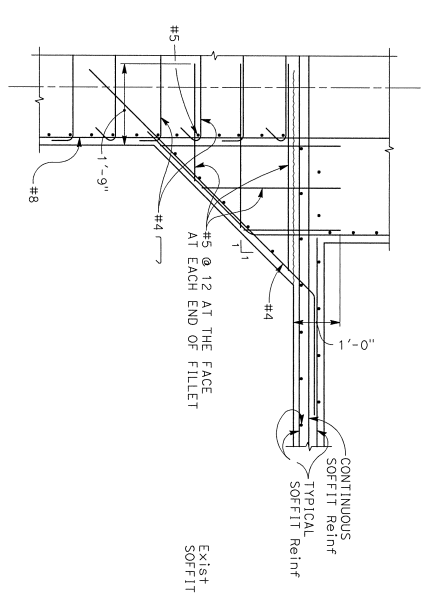


SECTION C-C
3/8" = 1'-0"

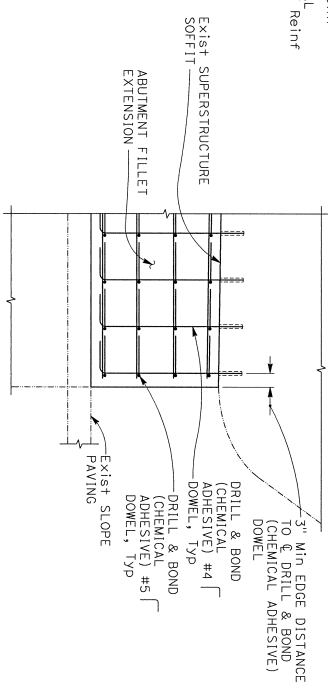
NOTE:
1. Adjust footing Reinf to clear pile anchorage reinforcement.
2. Not all Reinf shown for clarity.
3. Opposite end of footing similar.



SECTION D-D
3/4" = 1'-0"



SECTION E-E
3/4" = 1'-0"



DETAIL 2
3/4" = 1'-0"

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTALS
04	SCI	101	R281.4/R281.9	248 343

March 6, 2020
REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20
STATE OF CALIFORNIA
DIVISION OF CONSTRUCTION

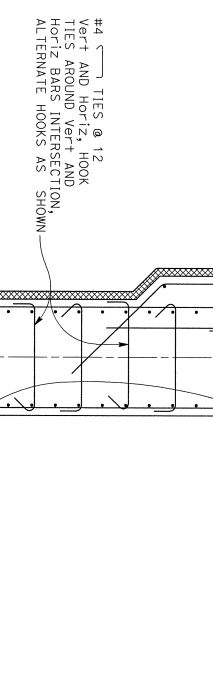
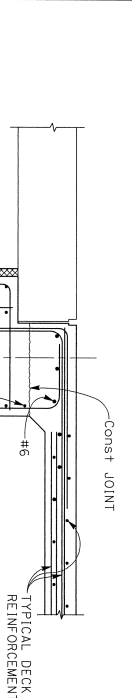
March 6, 2020
REGISTERED STRUCTURAL ENGINEER DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

CITY OF SAN JOSE DOI
200 E. SANTA CLARA ST., 8th FLOOR
SAN JOSE, CA 95113

BIGGS CARDOSA ASSOCIATES, INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

LEGEND:
----- Indicates Existing Structure

DESIGNER: Shu-Shang Lin DESIGN OVERSIGHT: 3-5-2020 DESIGN DATE: 3-5-2020		DESIGN: K. CRUZ DETAILS: K. CRUZ QUANTITIES: S. RECHENWACHER		CHECKED: J. ALCIATI DESIGNED: J. ALCIATI CHECKED: A. HARBIBI		PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		UNIT: 0000 PROJECT NUMBER & PHASE: 04160002241		SHEET NO: 37-0348 TOTAL SHEETS: R281.91		BLOSSOM HILL RD OC (WIDEN) ABUTMENT DETAILS No. 2		DESIGNER PRINTS SHEETS: 8 SHEET OF: 26	
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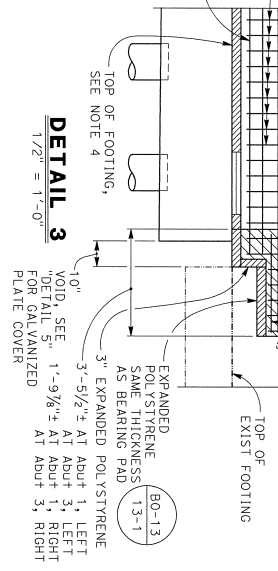


EXISTING MEDIAN WINGWALL ELEVATION
3/8" = 1'-0"

SECTION F-F
3/4" = 1'-0"

- NOTES:
1. Extend geocomposite drain system behind abutment closure pour.
2. Adjust spacing of Reinf as necessary to avoid conflict w/ prestressing ducts. Total number of Reinf determined through spacing shown must be maintained and spacing must not exceed 12".

- NOTES:
1. Closure pour of Abutment 1 left shown, other abutments similar.
2. Not all reinforcement shown for clarity.
3. Adjust spacing of Reinf as necessary to avoid conflict w/ prestressing ducts. Total number of Reinf determined through spacing shown must be maintained and spacing must not exceed 12".
4. Match top of footing with top of existing footing.
5. For "DETAIL 5" see "ABUTMENT DETAILS NO. 4" sheet.



REGISTERED STRUCTURAL ENGINEER
March 6, 2020
No. 2639
CITY OF SAN JOSE DOI
200 E. SANTA CLARA ST., 8th FLOOR
SAN JOSE, CA 95131
BIGGS CARDOSA ASSOCIATES INC.
865 THE PLAZA
SAN JOSE, CALIFORNIA 95128

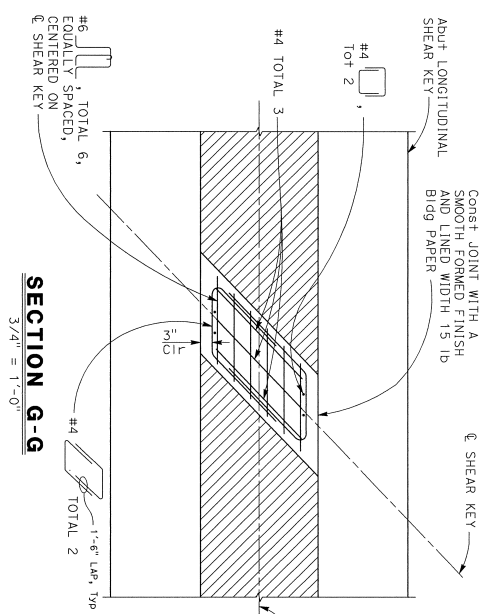
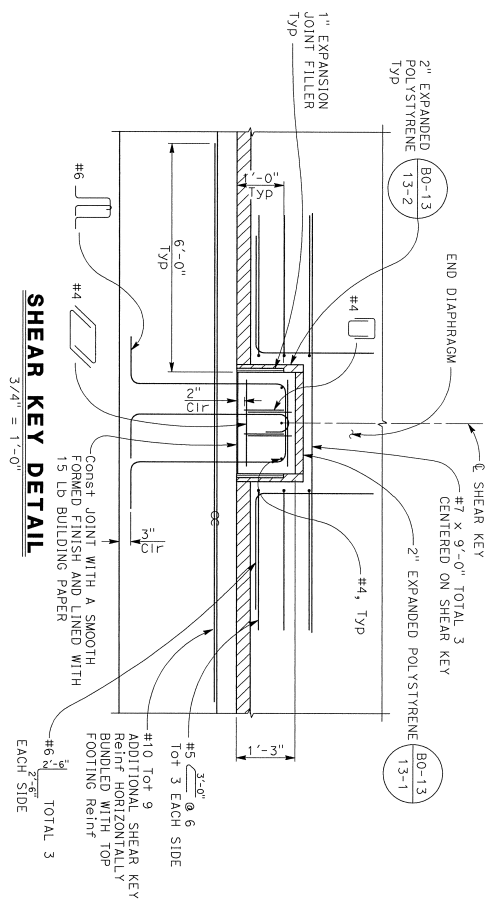
REGISTERED PROFESSIONAL ENGINEER
March 6, 2020
No. 2639
CITY OF SAN JOSE DOI
200 E. SANTA CLARA ST., 8th FLOOR
SAN JOSE, CA 95131
BIGGS CARDOSA ASSOCIATES INC.
865 THE PLAZA
SAN JOSE, CALIFORNIA 95128

LEGEND:
Indicates Bridge Removal (portion)
Indicates Abutment closure pour
Indicates Expanded polystyrene
Indicates Existing Structure

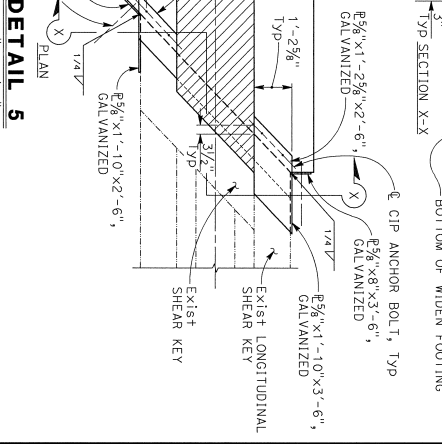
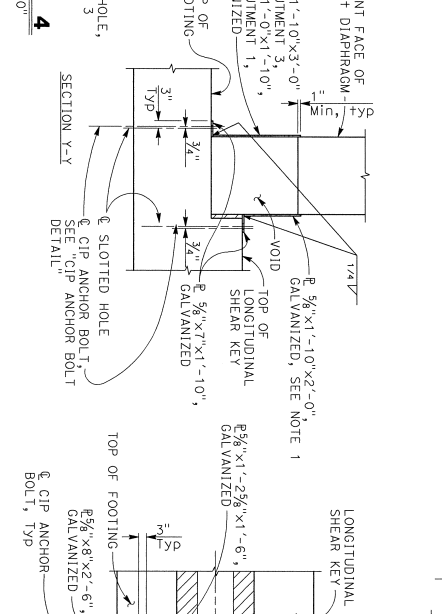
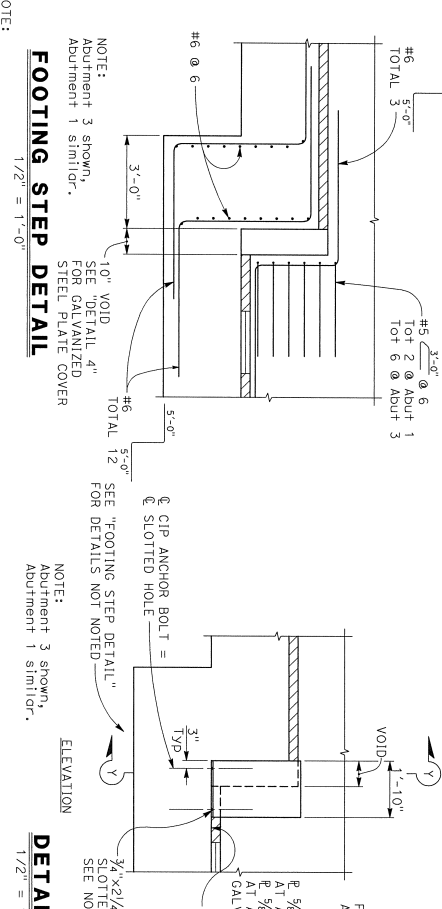
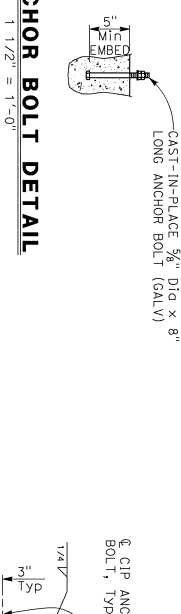
DIST	COUNTY	ROUTE	POST MILES	SHEET TOTALS
04	SCI	101	R28.4/R28.9	249 / 343

Shu-Shang Liu DESIGNER 3-5-2020 DESIGN DATE		BY K. CRUZ CHECKED J. ALCIATI DATE 02/23/21		PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DESIGNER G. KENNING PROJECT ENGINEER 0000		BLOSSOM HILL RD OC (WIDEN) ABUTMENT DETAILS No. 3	
DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/13)		QUANTITIES S. RECHENWACHER		CHECKED A. HADJIBI		PROJECT NUMBER & PHASE: 04160002241		SHEET NO. 9 OF 28	

DIST	COUNTY	ROUTE	POST MILEST.	SHEET TOTAL
04	SCI	101	R28.4/R28.9	230 / 345
REGISTERED STRUCTURAL ENGINEER March 6, 2020 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of a stamped copy of this plan sheet. CITY OF SAN JOSE DOT 200 E. SANTA CLARA ST., 5th FLOOR SAN JOSE, CA 95113 BIGGS CARDOSA ASSOCIATES INC. 665 THE ALAMEDA SAN JOSE, CALIFORNIA 95128			REGISTERED PROFESSIONAL ENGINEER No. 2659 Exp. 12/21/20 STATE OF CALIFORNIA	PLAN APPROVAL DATE March 6, 2020

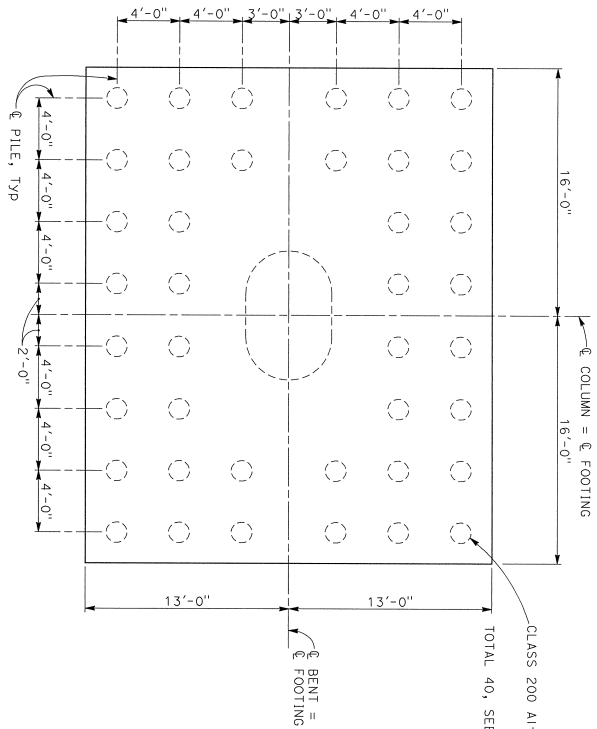


- LEGEND:**
- Expanded Polystyrene
 - Indicates Existing Structure
- NOTES:**
- At Abutment 1 backface, galvanized steel plate cover not needed.
 - Place all steel cover plates after framework release and after placing longitudinal shear key and prior to backfilling the abutments.
 - Place long dimension of slotted holes parallel to "A1" line.
 - Place plate along existing shear key to ensure no gap between plate and existing shear key.

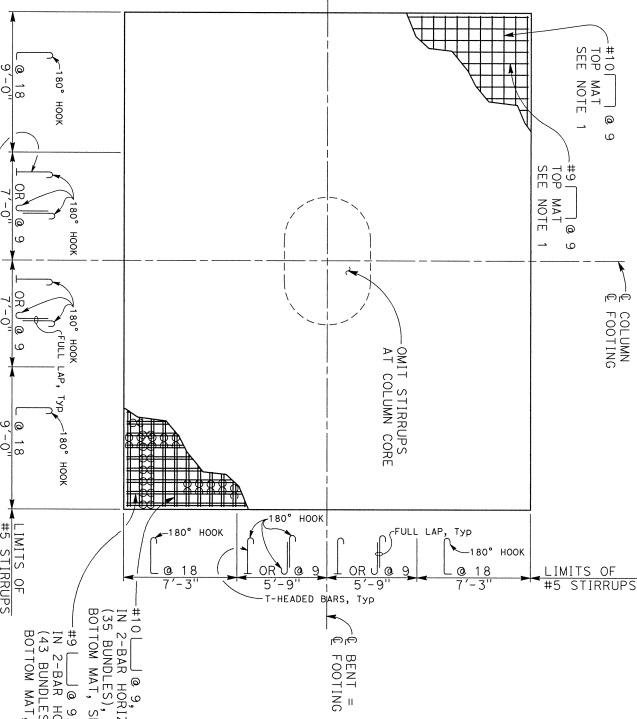


NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

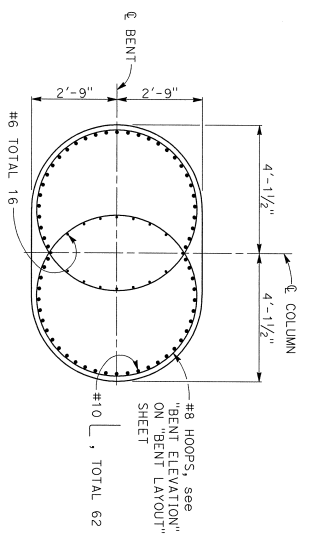
DESIGN DETAIL SHEET (ENGLISH) REV. 02/14/21 3-5-2020 She-Shany Liu DESIGN OVERSIGHT		CHECKED J. ALCIATI S. RECHENWACHER S. RECHENWACHER S. RECHENWACHER A. HABIIBI		PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION G. KENNING PROJECT ENGINEER R28.161		BLOSSOM HILL RD OG (WIDEN) ABUTMENT DETAILS NO. 4 CONTRACT NO.: 04-1K2804 DATE PLOTTED => #DATE TIME PLOTTED => #TIME	
--	--	--	--	--	--	---	--



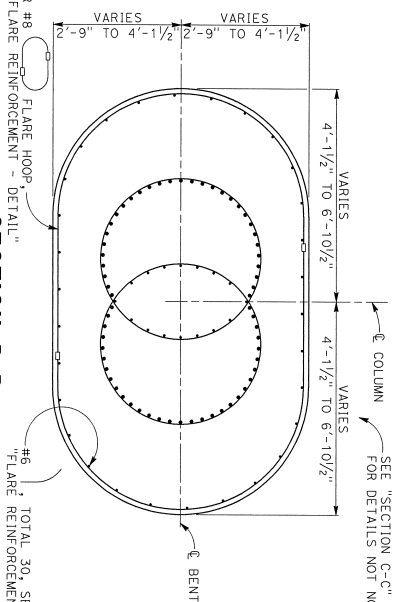
FOOTING PILE LAYOUT
1/4" = 1'-0"



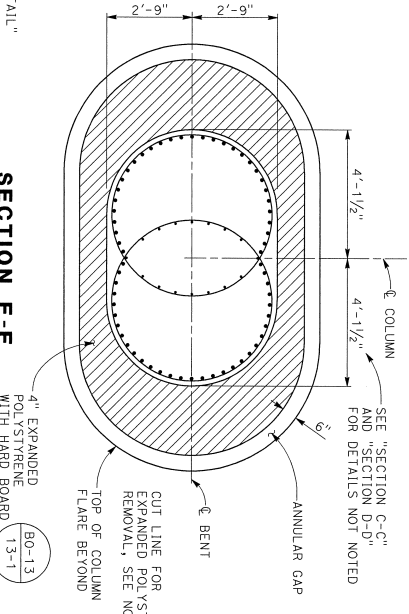
FOOTING REINFORCEMENT PLAN
1/4" = 1'-0"



SECTION C-C
1/2" = 1'-0"



SECTION D-D
1/2" = 1'-0"



SECTION E-E
1/2" = 1'-0"

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

DESIGNER: *Shu-Shany L. Li*
DESIGN PREPARED BY: *3-5-2020*
DATE: *3-5-2020*

DESIGN	BY	CHECKED
DETAILS	K. CRUZ	J. ALCIATI
QUANTITIES	S. RECHENWACHER	A. HARBIBI

DESIGN	BY	CHECKED
DETAILS	K. CRUZ	J. ALCIATI
QUANTITIES	S. RECHENWACHER	A. HARBIBI

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER	PROJECT NO.
G. KENNING	04-1K2804

PROJECT NO.	CONTRACT NO.	DATE
04-1K2804	04-1K2804	3/5/20

DESIGNER: *Shu-Shany L. Li*
DATE: *3-5-2020*

DIST	COUNTY	ROUTE	POST MILES	TOTAL PROJECT	SHEET TOTAL
04	SCI	101	R28.4/R28.9	253	345

REGISTERED STRUCTURAL ENGINEER DATE: *March 6, 2020*

PLANS APPROVAL DATE: *March 6, 2020*

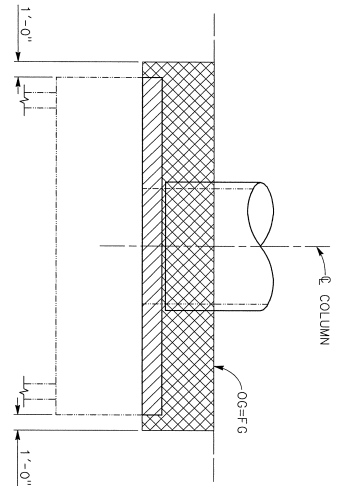
REGISTERED PROFESSIONAL ENGINEER
No. 2659
Exp. 12/31/20

CITY OF SAN JOSE DOI
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113

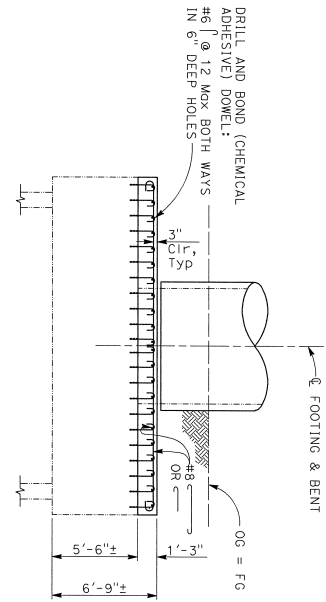
BIGGS CARROSA ASSOCIATES, INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

- NOTES:
- Splices not permitted in footing top and bottom mat reinforcement.
 - Pre-cut polystyrene to facilitate removal. Remove outer 6" after construction.

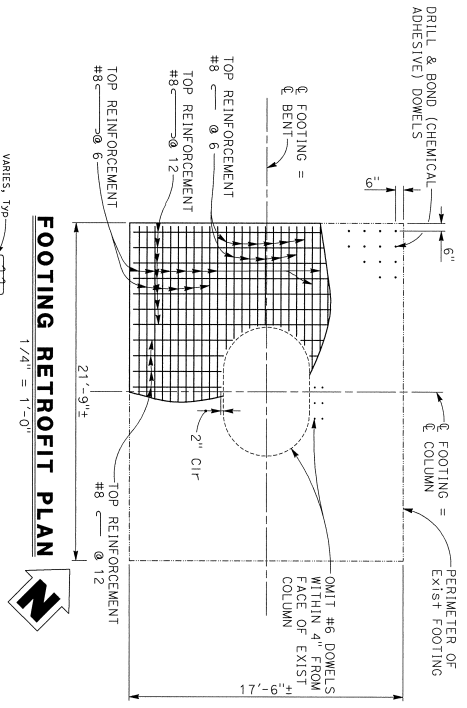
LEGEND:
— Indicates Service Level
— Mechanical Splice



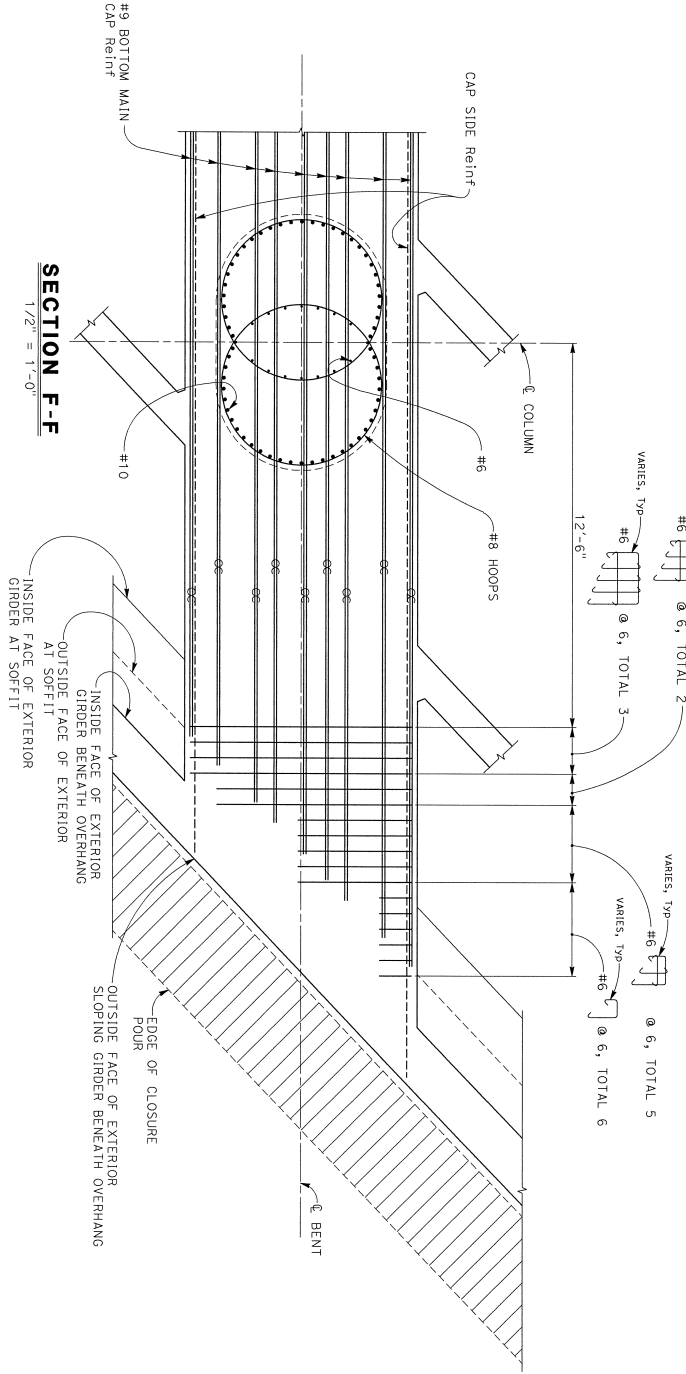
LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL AT EXISTING BENT



FOOTING RETROFIT ELEVATION



FOOTING RETROFIT PLAN



SECTION F-F

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN: *Shan-Shang Liu*
CHECKED: *Shan-Shang Liu*
DATE: 3-5-2020

DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/13)

DESIGN	BY	CHECKED
DETAILS	K. CRUZ	J. ALCIATI
QUANTITIES	S. RECHENWACHER	A. HARBIBI

DESIGN	BY	CHECKED
DETAILS	K. CRUZ	J. ALCIATI
QUANTITIES	S. RECHENWACHER	A. HARBIBI

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

UNIT:	0000
PROJECT NUMBER & PHASE:	04160002241

DESIGNER:	DATE:
PROJECT ENGINEER:	37-0318
PROJECT NUMBER:	2551/125
PROJECT PHASE:	125/131

**BLOSSOM HILL RD OG (WIDEN)
BENT DETAILS No. 3**

DIST.	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	294 345

REGISTERED STRUCTURAL ENGINEER DATE

March 6, 2020

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of some copies of this plan when:

CITY OF SAN JOSE DOI
200 E. SANTA LARA ST., 8th FLOOR
SAN JOSE, CA 95133

BIGGS CARDOSA ASSOCIATES, INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95128

REGISTERED PROFESSIONAL ENGINEER
No. 26519
No. 12721720
SITE OF CONTRACT

- LEGEND:
- Indicates Existing Structure
 - Indicates Limits of Closure Pour
 - Indicates Structure Excavation
 - Indicates Structure Backfill
 - Indicates Bundled Bar

POINT OF COMPOUND CURVE

ELLIPTICAL CASING
DETAIL TYPE F COLUMN

NO SCALE

RADI R1 AND R2 TO BE DETERMINED BY THE CONTRACTOR
SUBJECT TO THE APPROVAL OF THE ENGINEER

DETAIL 1
NO SCALE

DETAIL 2
NO SCALE

LEGEND:
Indicotee Existing structure

NOTES:

- For varying thickness, steel casing inside surface to remain flush. Minimum clearance from existing column to casing must be maintained.
- Appropriate injection nozzles to be provided on casing, but removed and ground flush following completion of grouting operation.
- All voids between steel casing and existing column (TYPE F) to be filled with grout.
- Location and number of vertical and horizontal grout holes to be approved by the Engineer and subject to the approved drawings for the project. No skip welds allowed.
- Backing plates must be 3/8" thick.
- Temporary lifting ears (optional) to be removed and ground smooth after installation, TYP.
- Tapered casing segments to approximate existing parabolic column flare. Each segment may be tangent between welded joints.
- Seal bottom of casing for grouting. Grout at 2" gap must be limited to the inside face of steel casing. Dimensions shown are measured at \varnothing column.

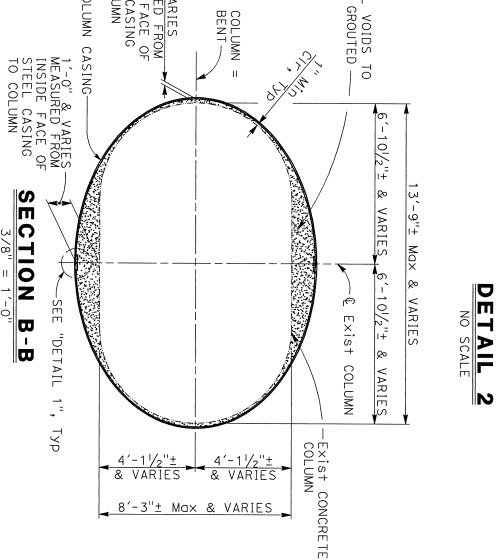
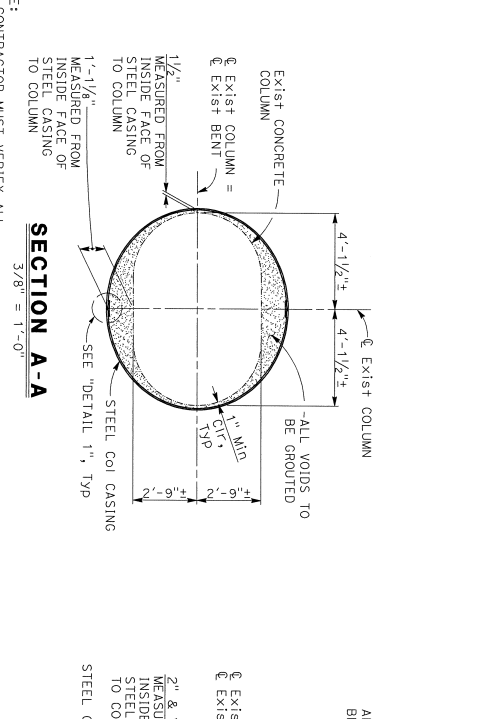
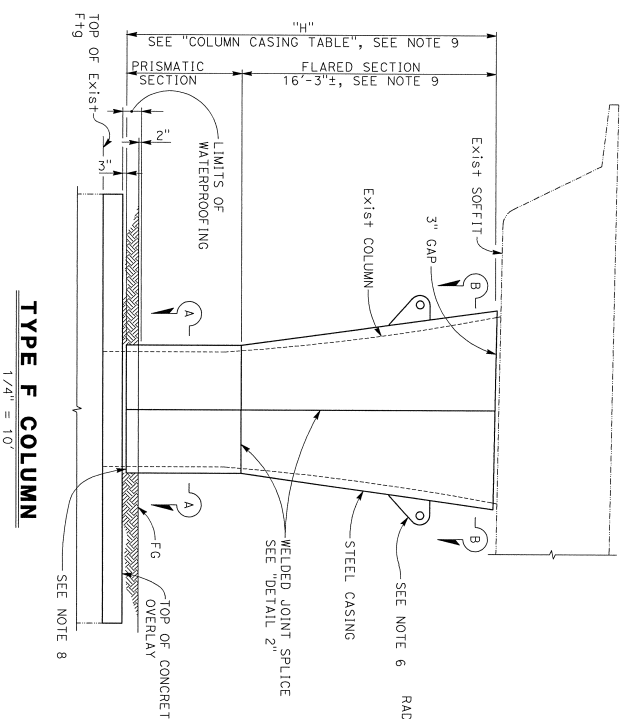
REGISTERED PROFESSIONAL ENGINEER
MARCH 6, 2020
PLANS APPROVAL DATE

REGISTRATION NO. 2619
EXPIRES 12/31/20

CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113

REGIS CARROSA ASSOCIATES INC.
885 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	255 345



BENT	COLUMN CASING THICKNESS	PRISMATIC SECTION
2 LEFT	24'-0"±	3/4"
2 RIGHT	23'-3"±	3/4"

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

DESIGN DETAIL SHEET (ENGLISH) REV. 02/14/12

DESIGN: *Shay-Shay Lin*
CHECKED: *K. CRUZ*
DATE: 3-5-2020

DESIGN: *K. CRUZ*
CHECKED: *S. RECHENWACHER*

DESIGN: *J. ALCIATI*
CHECKED: *A. HABIBI*

DESIGN: *G. KENNING*
CHECKED: *R28.45*

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER & PHASE: 04-1K2804

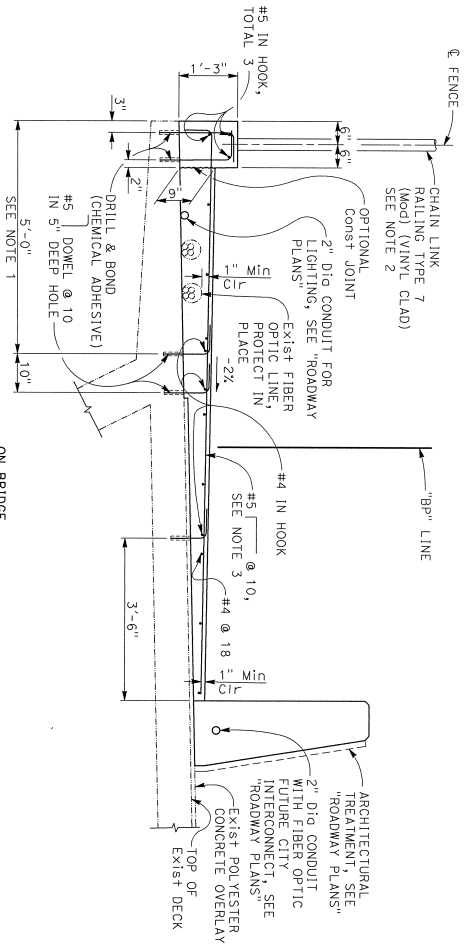
CONTRACT NO.: 04-1K2804

DISSEMINATION SHEET NO. 15

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TIME PLOTTED => #TIME

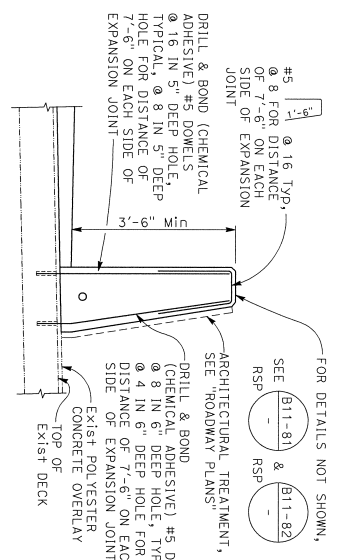
USERNAME => #USER



SIDEWALK MODIFICATION DETAIL 1

ON BRIDGE

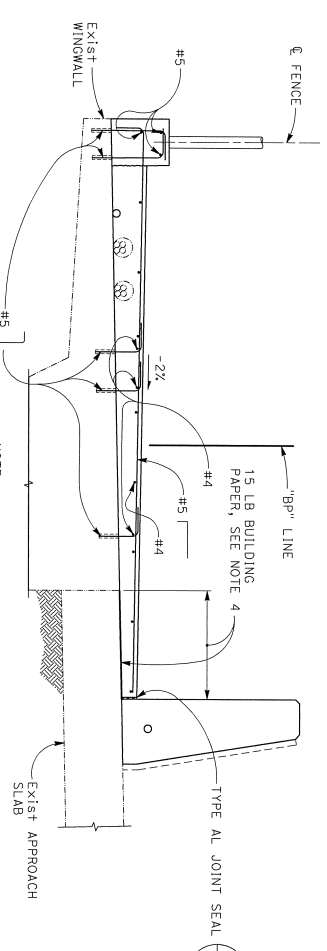
3/4" = 1'-0"



BARRIER MODIFICATION DETAIL

ON BRIDGE

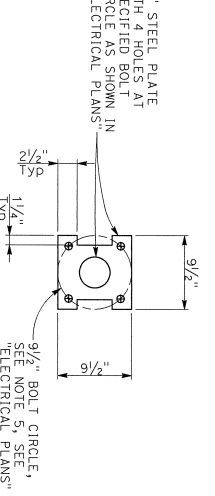
3/4" = 1'-0"



SIDEWALK MODIFICATION DETAIL 2

ON WINGWALL

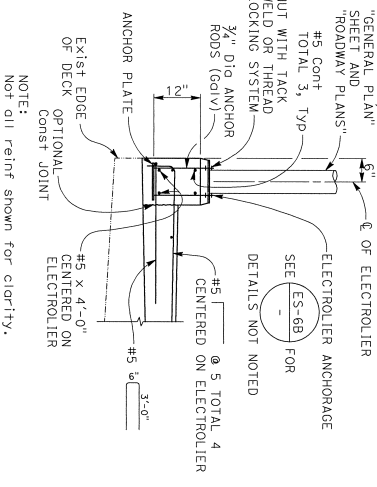
3/4" = 1'-0"



ANCHOR PLATE DETAIL

ON BRIDGE

1 1/2" = 1'-0"



ELECTROLLER ANCHORAGE DETAIL

ON BRIDGE

3/4" = 1'-0"

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN: *Sky-Slavery Ltd*
DESIGN VERSION: 3-5-2020
DATE: 3-5-2020

DESIGN	BY: K. CRUZ	CHECKED	J. ALCIATI
DETAILS	BY: K. CRUZ	CHECKED	K. ALCIATI
QUANTITIES	BY: S. RECHENWACHER	CHECKED	A. HARBIBI

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

UNIT:	0000
PROJECT NUMBER & PHASE:	04160002241
CONTRACT NO.:	04-1X2804

PROJECT NO.	37-0308
PROJECT ENGINEER	2551/LES
DATE	1/23/21
DESIGNER/PROJECT ENGINEER	<i>[Signature]</i>
CHECKER	<i>[Signature]</i>
DATE	1/7/21
SHEET NO.	17
TOTAL SHEETS	26

USERNAME => #USER DATE PLOTTED => #DATE TIME PLOTTED => #TIME

REGISTERED PROFESSIONAL ENGINEER
No. 2639
No. 12/21/20
STATE OF CALIFORNIA
March 6, 2020
This stamp of California or its officers or agents shall not be responsible for the accuracy or completeness of as-built copies of this plan sheet.

REGISTERED STRUCTURAL ENGINEER DATE
March 6, 2020
No. 2639
No. 12/21/20
STATE OF CALIFORNIA

CITY OF SAN JOSE DOI
200 E. SANTA ALBA ST., 8TH FLOOR
SAN JOSE, CA 95131

BIGGS CARDOSA ASSOCIATES, INC.
866 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	297 / 345

- NOTES:
- Adjust dowel to provide a minimum of 5" clear from fiber optic line to the dowel.
 - For chain link railing type 7 (Mod) (Vinyl clad) details, see "CHAIN LINK RAILING 7 (MOD) (VINYL CLAD) DETAILS" For architectural features on railing, see "ROADWAY PLANS".
 - Place additional #5 link each side of chain link rolling post.
 - Place 15 LB building paper between sidewalk and existing approach slab.
 - Confirm bolt circle and bolt diameter with electrooller manufacturer prior to ordering or fabrication. Notify Engineer of any discrepancies.

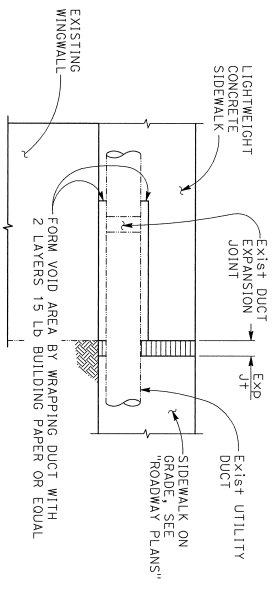
LEGEND:
--- Indicates Existing Structure

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO SHEETS
04	SCI	101	R28.4/R28.9	258 345

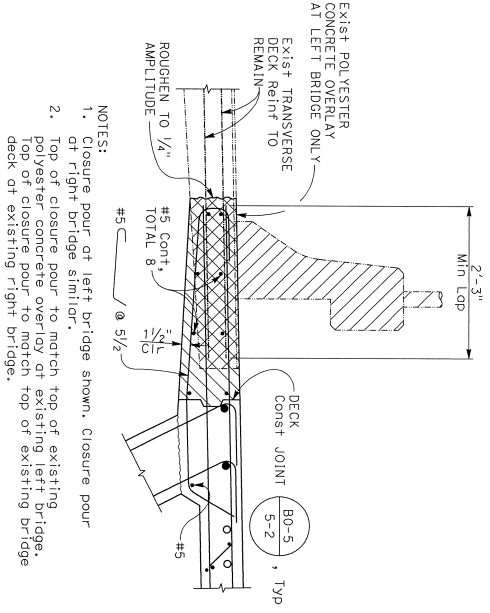
REGISTERED STRUCTURAL ENGINEER DATE
March 6, 2020
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 CITY OF SAN JOSE, DOI
 200 E. SANTA CLARA ST., 8TH FLOOR
 SAN JOSE, CA 95113
 BIGGS CARDOSA ASSOCIATES, INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126



LEGEND:
 Indicates Existing Structure
 Indicates Bridge Removal (Portion)
 Indicates Closure Pour
 Indicates Expanded Poly styrene

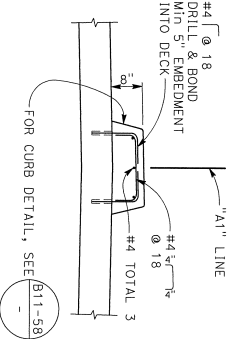


AT END OF EXIST WINGWALL
UTILITY DUCT EXPANSION JOINT
 NO SCALE

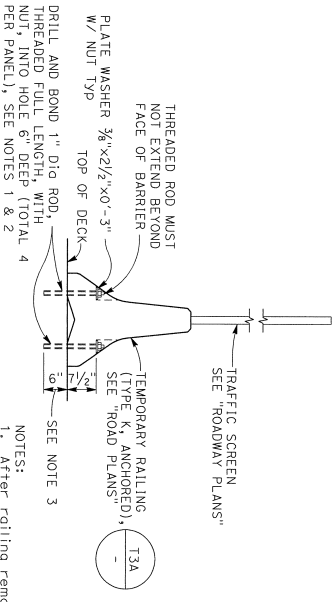


- NOTES:
 1. Closure pour of left bridge shown. Closure pour of right bridge similar.
 2. Top of closure pour to match top of existing deck of closure pour to match top of existing right bridge.

CLOSURE POUR DETAIL
 1" = 1'-0"



DETAIL 1
 3/4" = 1'-0"

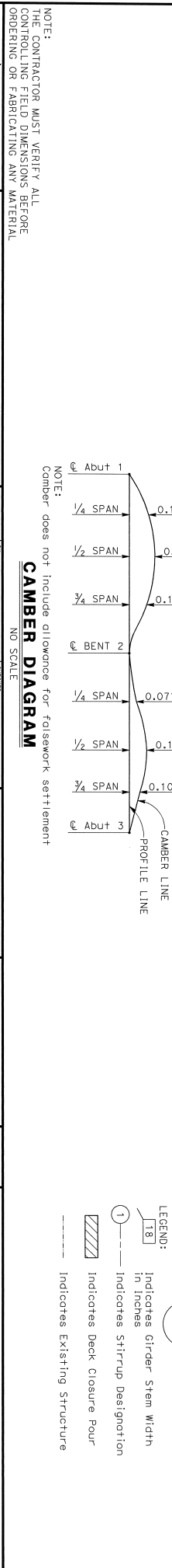
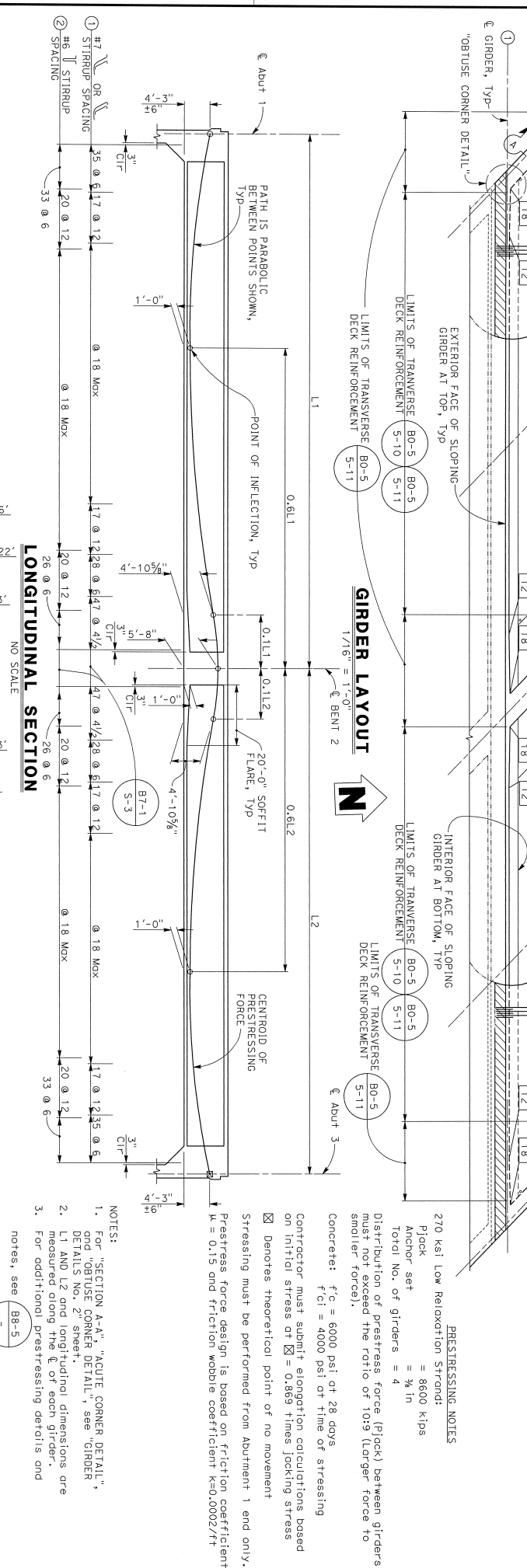
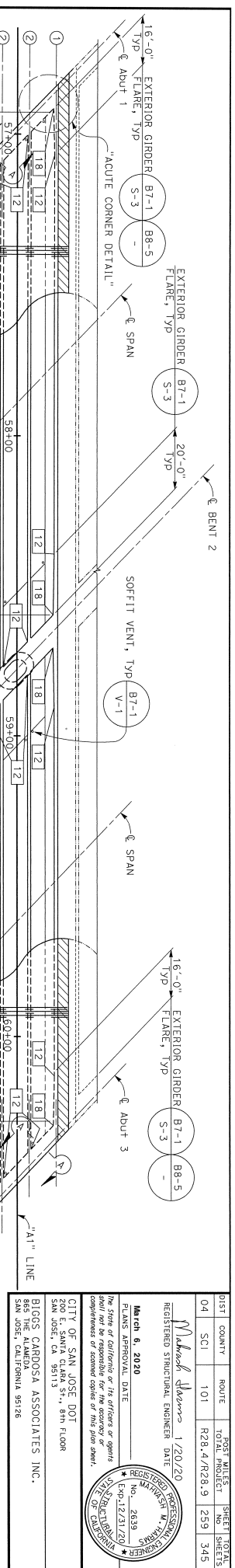


DETAIL 2
 NO SCALE

- NOTES:
 1. After railing removal, remove threaded rod to a minimum depth of 1" below concrete deck surface and fill hole with rapid setting concrete.
 2. Drill and bond dowel anchor for temporary railing required only on structure and structure approach slab.
 3. 7" embedment when polyester concrete overlay is present. Left bridge only.

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

DESIGNER	BY	CHECKED	DATE	PROJECT NUMBER & PHASE	UNIT	CONTRACT NO.
DETAILS	K. CRUZ	J. ALCIATI		0000		04-1V2804
QUANTITIES	S. RECHENWACHER	A. HARBIBI				
<p>PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION</p>						
<p>PROJECT ENGINEER G. KENNING</p>						
<p>BLOSSOM HILL RD OC (WIDEN) TYPICAL SECTION DETAILS No. 2</p>						
DATE	BY	CHECKED	DATE	PROJECT NUMBER & PHASE	UNIT	CONTRACT NO.
3-5-2020	K. CRUZ	J. ALCIATI		0000		04-1V2804
<p>DATE PLOTTED => #DATE TIME PLOTTED => \$TIME</p>						



NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTE:
Camber does not include allowance for falsework settlement.

LEGEND:
 18 Indicates Girder Stem Width in Inches
 ① Indicates Stirrup Designation
 ▨ Indicates Deck Closure Pour
 --- Indicates Existing Structure

NOTES:
 1. For "SECTION A-A", "ACUTE CORNER DETAIL", and "OBTUSE CORNER DETAIL", see "GIRDER DETAILS No. 2" sheet.
 2. L1 AND L2 and longitudinal dimensions are measured along the ϕ of each girder.
 3. For additional prestressing details and notes, see B8-5.

PRESTRESSING NOTES
 270 ksi Low Relaxation Strand:
 P/cock = 8600 k/ps
 Anchor set = 3/8 in
 Total No. of girders = 4
 Distribution of prestress force (P/cock) between girders must not exceed the ratio of 10:9 (Larger force to smaller force).
 Concrete: $f'c = 6000$ psi at time of stressing
 $f'ci = 4000$ psi at time of stressing

PRESTRESSING NOTES
 Contractor must submit elongation calculations based on initial stress of $\sigma = 0.869$ times jacking stress
 ☒ Denotes theoretical point of no movement
 Stressing must be performed from abutment 1 end only.
 Prestress force design is based on friction coefficient $\mu = 0.15$ and friction wobble coefficient $K=0.0002/ft$

DESIGN PREPARED BY
Shu-Shang Liu
3-5-2020

DESIGN	BY	DESIGNED	BY
DETAILS	K. CRUZ	J. ALCIATI	
QUANTITIES	S. RECHENWACHER	A. HARBIBI	

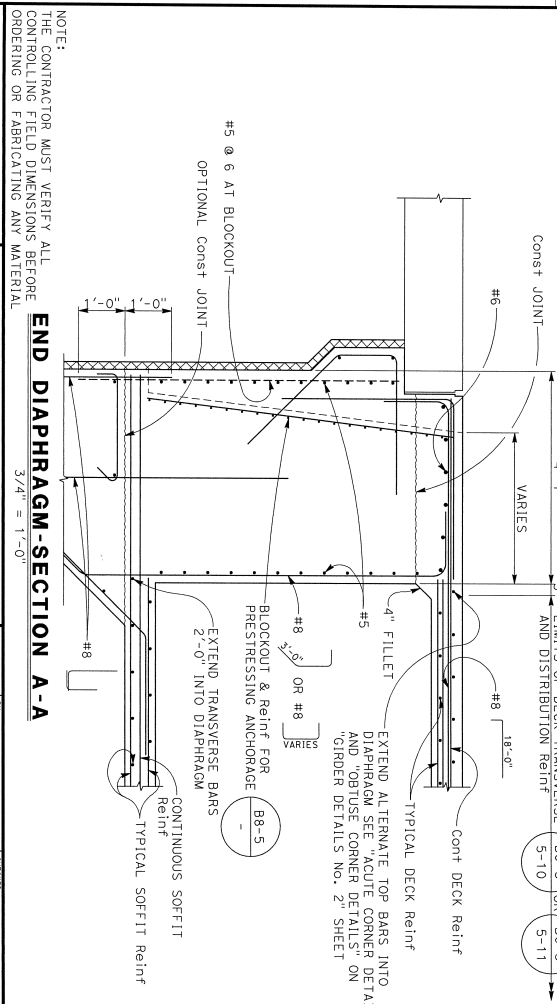
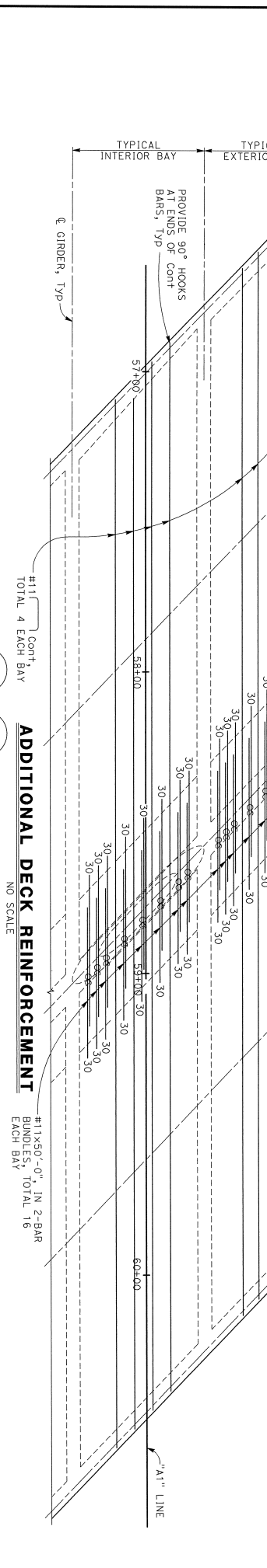
PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER
G. KENNING

BLOSSOM HILL RD OC (WIDEN)
GIRDER LAYOUT

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTALS
04	SCI	101	R28.4/R28.9	NO. SHEETS 259 345

DIST	COUNTY	ROUTE	TOTAL SHEETS	SHEET NO.
04	SCI	101	R28.4/R28.9	260 345
<i>Michael Stowers</i> 1/20/20				
REGISTERED STRUCTURAL ENGINEER DATE				
March 6, 2020				
PLANS APPROVAL DATE				
No. 2639				
EXP. 12/31/20				
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CITY OF SAN JOSE DOI				
200 E. SANTA CLARA ST., 8th FLOOR				
SAN JOSE, CA 95113				
BLOSSOM HILL RD OC (WIDEN)				
BLOSSOM HILL RD OC (WIDEN)				
865 THE ALAMEDA				
SAN JOSE, CALIFORNIA 95128				



ADDITIONAL DECK REINFORCEMENT
NO SCALE

#11 CONT. TOTAL 4 EACH BAY
BO-5 OR BO-5
5-10 OR 5-11

#11x50'-0" IN 2-BAR BUNDLES TOTAL 16 EACH BAY

NOTE:
1. Splice bars approximately equal within each bay.
2. Additional continuous reinforcement shall be provided at all bays. Top splices equal to two times the standard lap splice may be substituted for the service splices.
3. Splices for continuous bars must be located outside the "No Splice Zone" indicated.
4. Number at the end of bar indicates in feet from ℓ bent.
5. No splices allowed for additional reinforcement with length less than or equal to 60'-0".
6. Additional deck reinforcement must be placed parallel with ℓ girder.

DESIGNER	DESIGNED	CHECKED	DATE
J. K. CHUIZ	J. ALCIATI	A. ALCIATI	3-5-2020
DESIGN	DESIGNED	CHECKED	DATE
S. RECHENWACHER	A. HARBIBI	A. HARBIBI	3-5-2020
QUANTITIES	DESIGNED	CHECKED	DATE
S. RECHENWACHER	A. HARBIBI	A. HARBIBI	3-5-2020
DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/13)	DESIGNED	CHECKED	DATE
S. RECHENWACHER	A. HARBIBI	A. HARBIBI	3-5-2020

NOTE:
THE CONTRACTOR MUST VERIFY ALL THE CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

END DIAPHRAGM-SECTION A-A
3/4" = 1'-0"

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

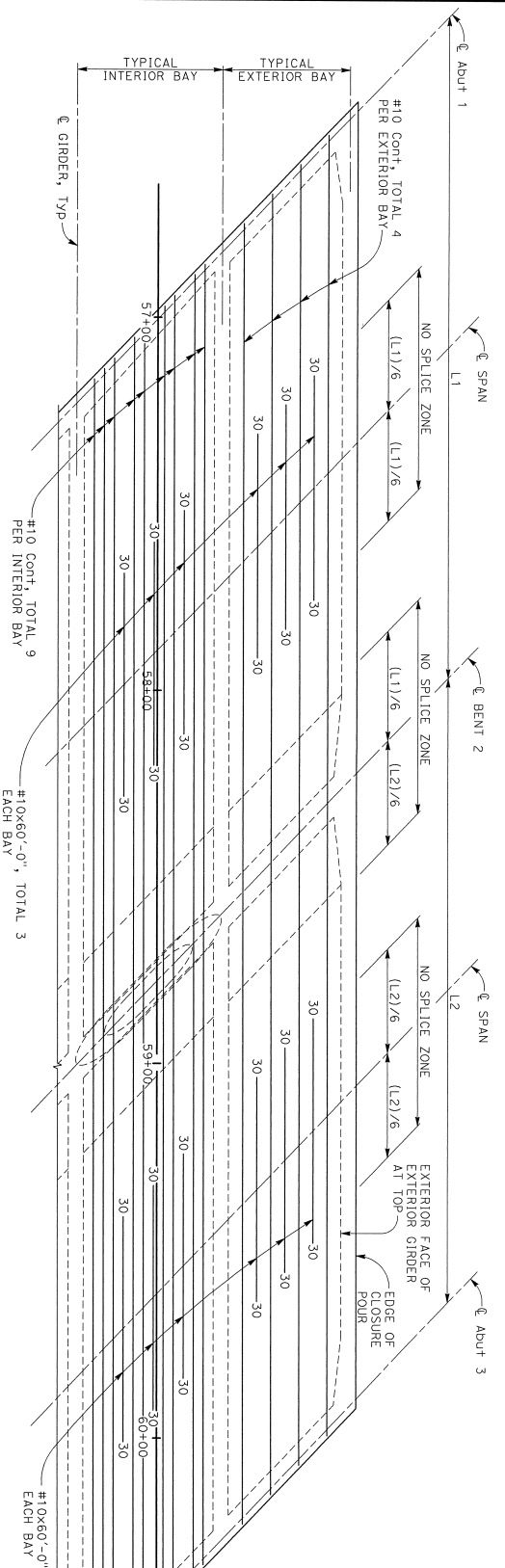
PROJECT ENGINEER
G. KENNING

PROJECT NO.
0000

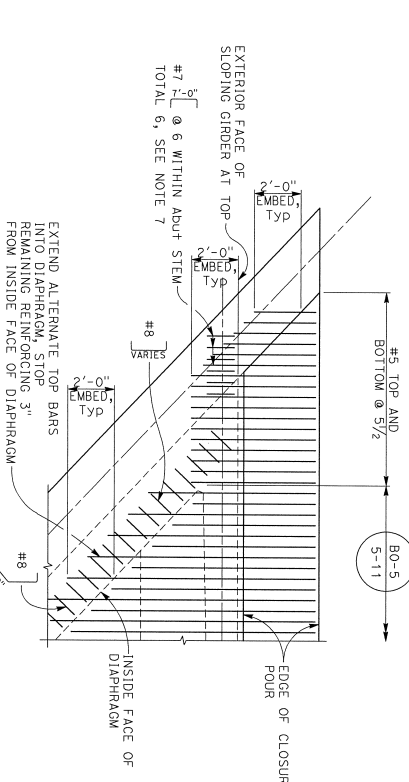
CONTRACT NO.: 04-1K2804

BLOSSOM HILL RD OC (WIDEN)
GIRDER DETAILS No. 1

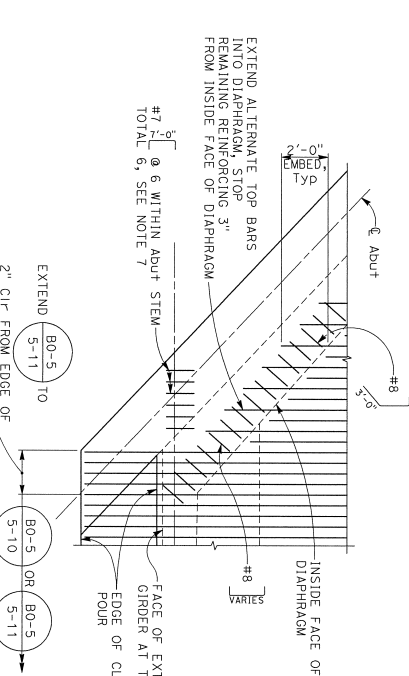
DATE PLOTTED => #DATE
TIME PLOTTED => #TIME



ADDITIONAL SOFFIT REINFORCEMENT
NO SCALE



ACUTE CORNER DETAIL
NO SCALE



OBTUSE CORNER DETAIL
NO SCALE

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTALS
04	SCI	101	TOTAL PROJECT NO. R28.4/R28.9	281 345

Michael Shivers 1/20/20
REGISTERED STRUCTURAL ENGINEER DATE

March 6, 2020
PLANS APPROVAL DATE

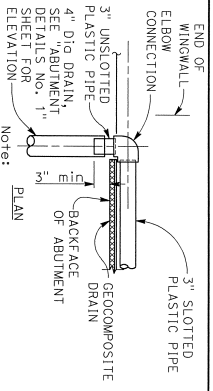
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200 E. SANTA ALBA ST., 8th FLOOR
SAN JOSE, CA 95131

BLOSSOM HILL RD OC (WIDEN)
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95128

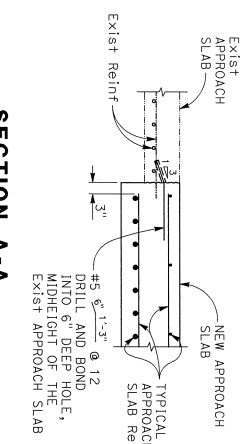
REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20
STATE OF CALIFORNIA
DIVISION OF CONSTRUCTION

DESIGN OVERSIGHT		DESIGNER		CHECKER		PREPARED FOR THE		BORROW AND	
3-5-2020		Shu-Shuang Liu		K. CRUZ		STATE OF CALIFORNIA		37-0308	
DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/13)		DETAILS		K. CRUZ		DEPARTMENT OF TRANSPORTATION		PROJECT NO. 04-1X2304	
SIGN OFF DATE		QUANTITIES		S. RECHENWACHER		PROJECT ENGINEER		CONTRACT NO.	
				A. HARBIBI		G. KENNING		04-1X2304	
				ORIGINAL SCALE IN INCHES		PROJECT NUMBER & PHASE: 04160002241		CONTRACT NO.: 04-1X2304	
				0		0000		DATE PLOTTED	
				1				21	
				2				28	
				3					



DRAINAGE DETAILS
NO SCALE

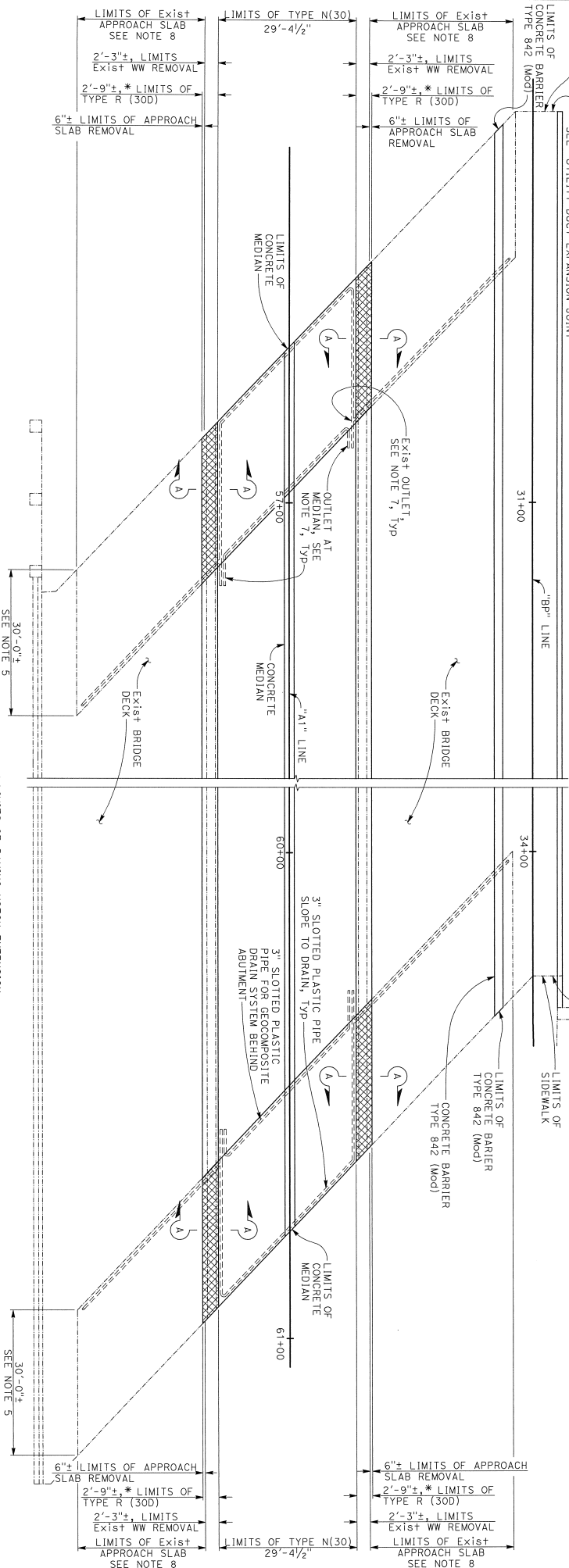
SECTION A-A
NO SCALE



- NOTES:
- For structure approach slab type N(300) details, see (B9-1) and (B9-5)
 - For structure approach slab type R(300) details, see (B9-2) and (B9-5)
 - For structure approach drainage details, see (B9-2) and (B9-5)
 - For drainage outlet or median widening, see SECTION A-A on 'ABUTMENT DETAILS No. 1' sheet.
 - End of approach slab must match end of existing approach slab.
 - Paving notch extension must be provided within limits of Type R (300).
 - Width of paving notch extension through to drainage at width.
 - Connect existing drainage outlet through wingwall to drainage at width.
 - Replace existing joint seal (WR=2") Type B within limits of existing approach slab.

LEGEND:

Indicates Approach Slab and WW Removal
Indicates Existing Structure

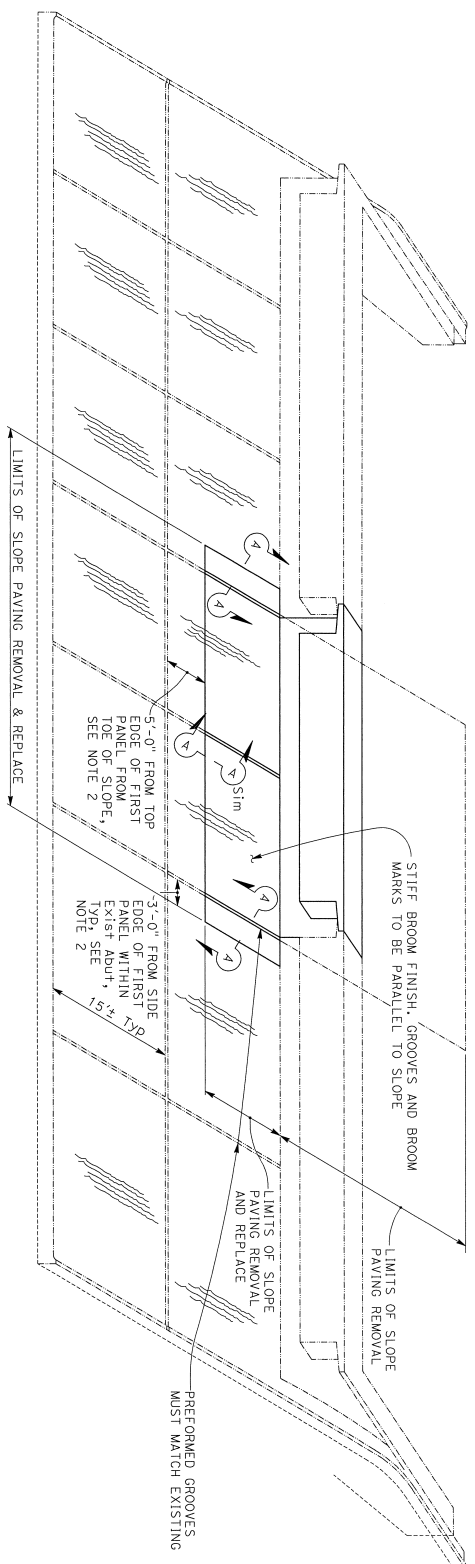


LIMITS OF STRUCTURE APPROACH
1" = 10'



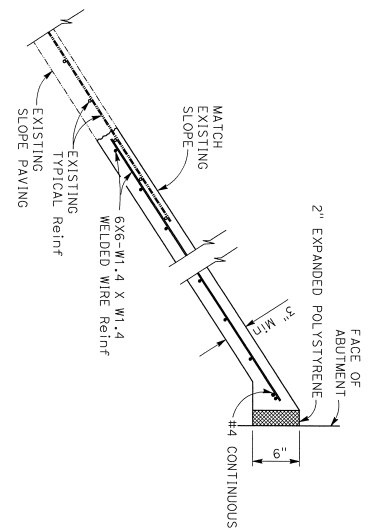
NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL

DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/13)		DESIGNER BY: K. CRUZ CHECKED: J. ALCIATI		PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		PROJECT NUMBER & PHASE: 04-1K2804	
DATE: 3-5-2020		CHECKED: A. HARBIGI		PROJECT ENGINEER: G. KENNING		CONTRACT NO.: 04-1K2804	
DESIGNER: S. SHANG LIA		CHECKED: K. ALCIATI		PROJECT NUMBER: 9228.61		SHEET NO.: 26	
DESIGNER: S. SHANG LIA		CHECKED: J. ALCIATI		PROJECT NUMBER: 9228.61		SHEET NO.: 26	
DESIGNER: S. SHANG LIA		CHECKED: J. ALCIATI		PROJECT NUMBER: 9228.61		SHEET NO.: 26	

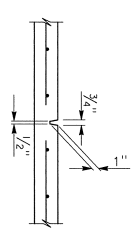


PICTORIAL VIEW OF TYPICAL INSTALLATION
NO SCALE

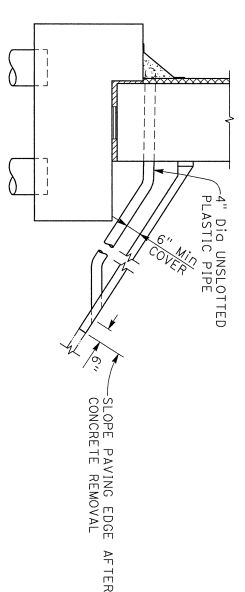
- NOTES:
1. Cut Exist sloping paving reinforcement beyond indicated to allow for Abutment construction.
 2. Dimension may be adjusted to facilitate abutment construct as approved by the engineer.



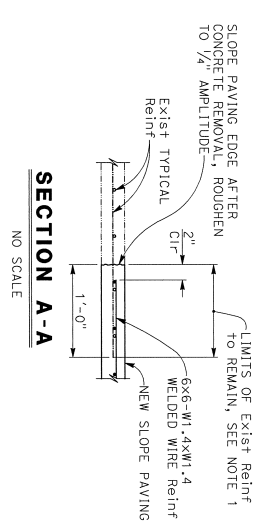
TYPICAL SECTION - CONCRETE PAVING
NO SCALE



PREFORMED GROOVE
NO SCALE



TYPICAL-DRAIN CONNECTION
NO SCALE



SECTION A-A
NO SCALE

DIST	COUNTY	ROUTE	POST MILES	SHEET NO.	TOTAL SHEETS
04	SCI	101	R28.4/R28.9	263	345

REGISTERED STRUCTURAL ENGINEER DATE
March 6, 2020
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or omission of any information on these plans.
 CITY OF SAN JOSE DOI
 200 E. SANTA CLARA ST., 9TH FLOOR
 SAN JOSE, CA 95113
 BIGGS CARDOSA ASSOCIATES INC.
 555 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126

REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 Exp. 12/31/20
 STATE OF CALIFORNIA
 CIVIL ENGINEER

NOTE: THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

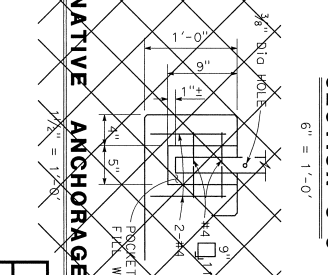
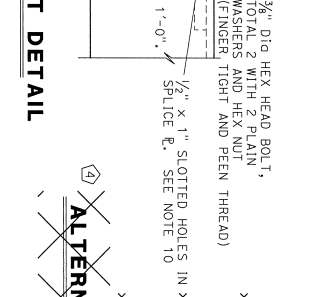
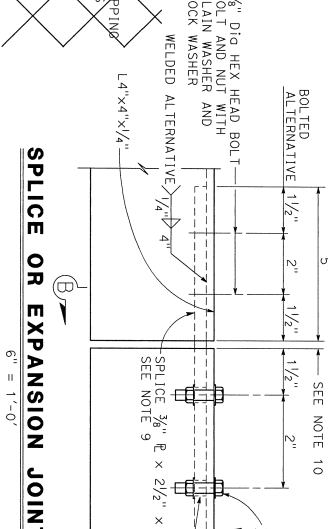
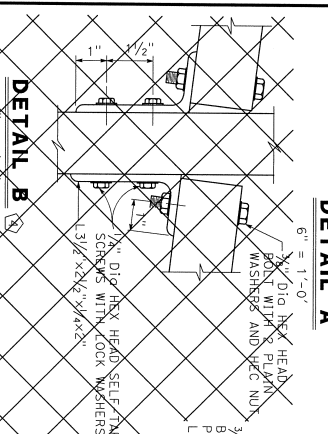
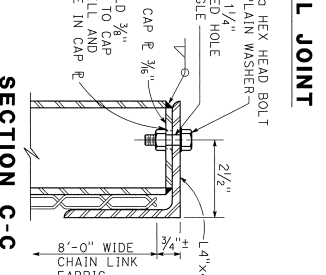
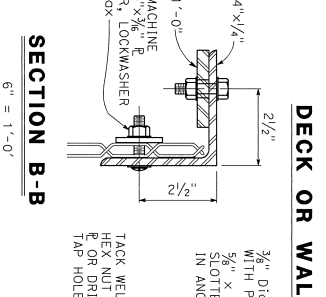
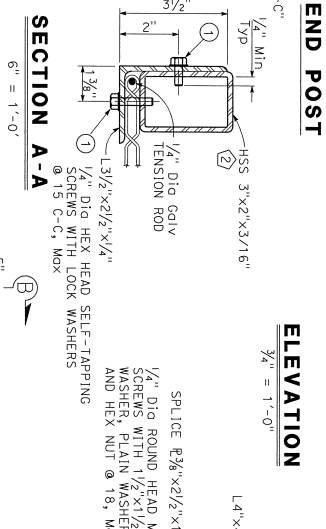
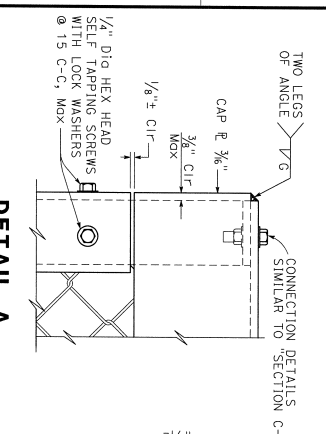
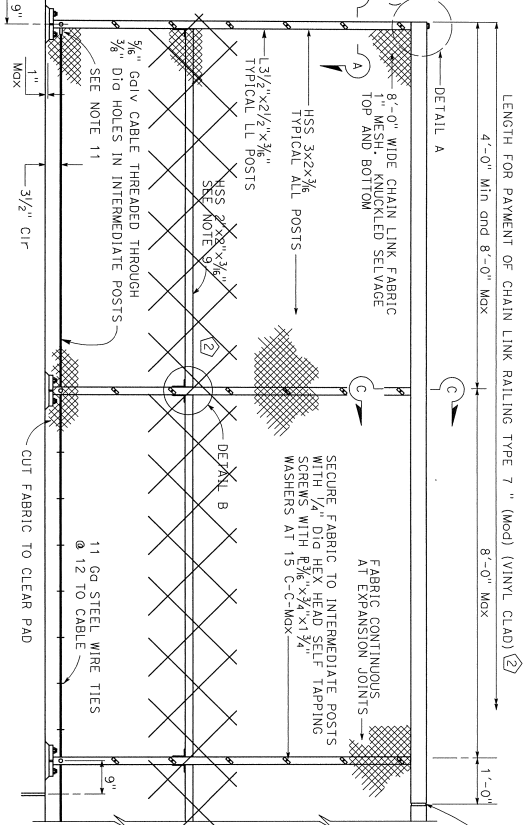
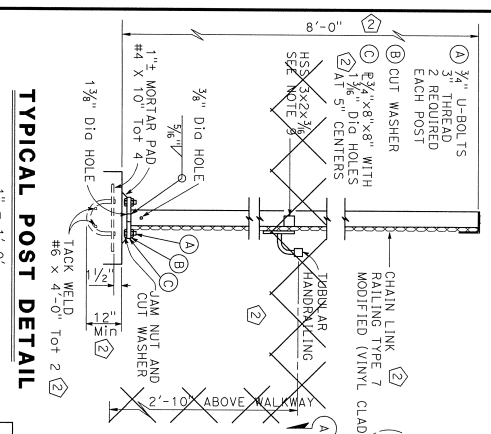
DESIGN: **Skyl Shang Liu**
 3-5-2020

DESIGN	BR. K. CRUZ	CHECKED	J. ALCIANTI
DETAILS	BR. K. CRUZ	CHECKED	A. ALCIANTI
QUANTITIES	BR. S. REICHEWACHER	CHECKED	A. HADIBI

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
 G. KENNING PROJECT ENGINEER
 37-0348
 R28.451
 CONTRACT NO.: 04-1K2804

BLOSSOM HILL Rd OC (WIDEN)
 SLOPE PAVING-FULL SLOPE

DATE PLOTTED => #DATE
 TIME PLOTTED => #TIME
 USER NAME => #USER



DISL.	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	R28.4/R28.9	264	345

REGISTERED STRUCTURAL ENGINEER DATE

March 6, 2020

PLANS APPROVAL DATE

RECEIVED REGISTERED PROFESSIONAL ENGINEER

NO. 2639

EXPIRES 12/31/20

STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

The Registered Civil Engineer for this project is responsible for the selection and proper application of the component design and any modifications shown.

CITY OF SAN JOSE DOT

200 E. SANTA CLARA ST., 8TH FLOOR

SAN JOSE, CA 95131

BIGGS CARROSA ASSOCIATES INC.

865 THE ALAMEDA

SAN JOSE, CALIFORNIA 95126

NOTES:

- Railing assembly except chain link fabric to be galvanized after fabrication
- Railing must conform to horizontal and vertical alignment as shown on drawings. Fabric to be galvanized after fabrication.
- Horizontal angle shall be continuous over not less than two intermediate posts except that joints and other roll discontinuities.
- When setting the posts, be careful to align them with the center of the road. Do not set them deep in the shoulder or on the edge of the road. Do not set them on the edge of the road.
- Place fabric parallel to slope.
- Alternative details may be submitted by the Contractor for Engineer's approval.
- Provide thimbles or oil cable loops.
- Been all exposed bolts.
- Use 2" x 3" x 1/2" galvanized pipe with 1/2" x 3/8" bolts.
- Expansion joint same dimension as expansion joint in deck face with the corresponding length and splice length corresponding.
- Anchor 3/8" galvanized cable at end post and end posts adjacent to electrolier openings or deck or wall joints with 3/8" dia steel rod and 3/8" dia steel sleeve and 3/8" dia steel clamp. Provide 1 1/2" minimum take-up of each anchorage.

10. Expansion joint same dimension as expansion joint in deck face with the corresponding length and splice length corresponding.

11. Anchor 3/8" galvanized cable at end post and end posts adjacent to electrolier openings or deck or wall joints with 3/8" dia steel rod and 3/8" dia steel sleeve and 3/8" dia steel clamp. Provide 1 1/2" minimum take-up of each anchorage.

BRIDGE STANDARD DETAILS

K816-220-1

ADOPTED DATE: OCTOBER 2014

REVISIONS:

1 TITLE REVISED

2 DETAIL MODIFIED

3 NOTE DELETED

4 DETAIL NOT USED

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 37-0348

POST MILE R28.61

CONTRACT NO. 04-142804

DESIGNER: [Signature]

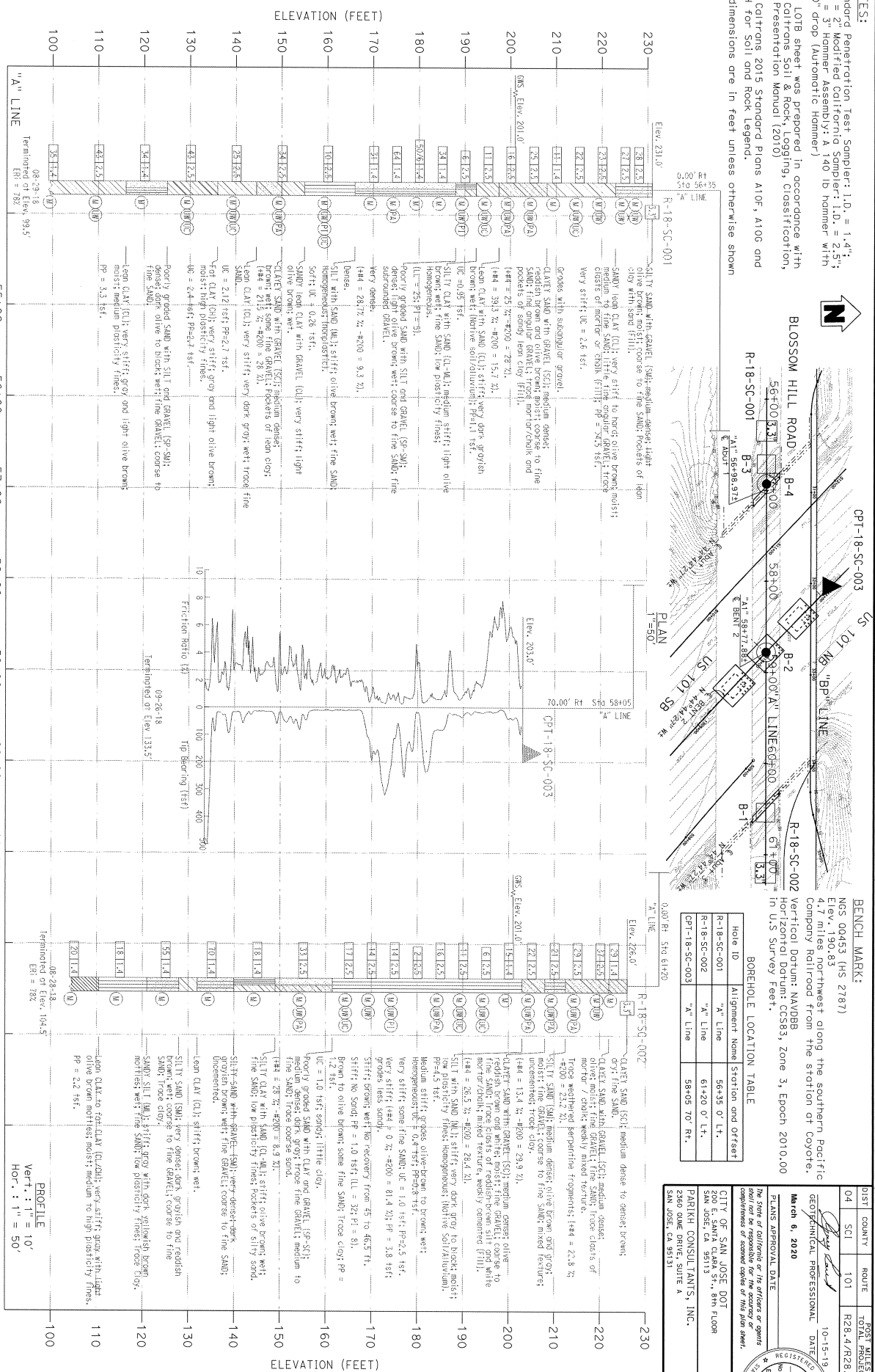
DATE: 2/4

DATE: 2/4

DATE: 2/4

NOTES:

Standard Penetration Test Sampler: 1.0" = 1.41"
 O.D. = 2" Hammer Assembly: A 140 lb Hammer with
 a 30" drop (Automatic Hammer)
 This LOTB sheet was prepared in accordance with
 the California Soil & Rock Logging Classification,
 and Presentation Manual (2010)
 See California 2015 Standard Plans A10F, A10G and
 A10H for Soil and Rock Legend.
 All dimensions are in feet unless otherwise shown



BENCH MARK:
 NGS 00453 (HS 2787)
 Elev. 190.83
 4.7 miles northwest along the southern Pacific Company Railroad from the station at Coyote.
 Vertical Datum: NAVD83
 Horizontal Datum: CGCS83, Zone 3, Epoch 2010.00
 In US Survey Feet.

BORING LOCATION TABLE

Well ID	Alignment Name	Station and Offset
R-18-SC-001	"A" Line	56+35.0' LT.
R-18-SC-002	"A" Line	61+20.0' LT.
CPT-18-SC-003	"A" Line	58+05.70' RT.

PLANS APPROVAL DATE: 10-15-19

REGISTERED PROFESSIONAL ENGINEER: CAR PARKER, No. 12737/19, State of California

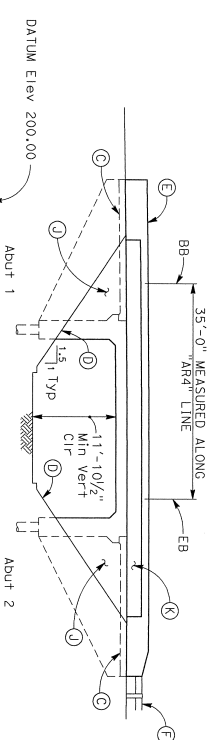
CITY OF SAN JOSE DOT: 200 E. SANTA ALBA ST., 8TH FLOOR, SAN JOSE, CA 95131

PARISH CONSULTANTS, INC.: 2500 OAK DRIVE, SUITE A, SAN JOSE, CA 95131

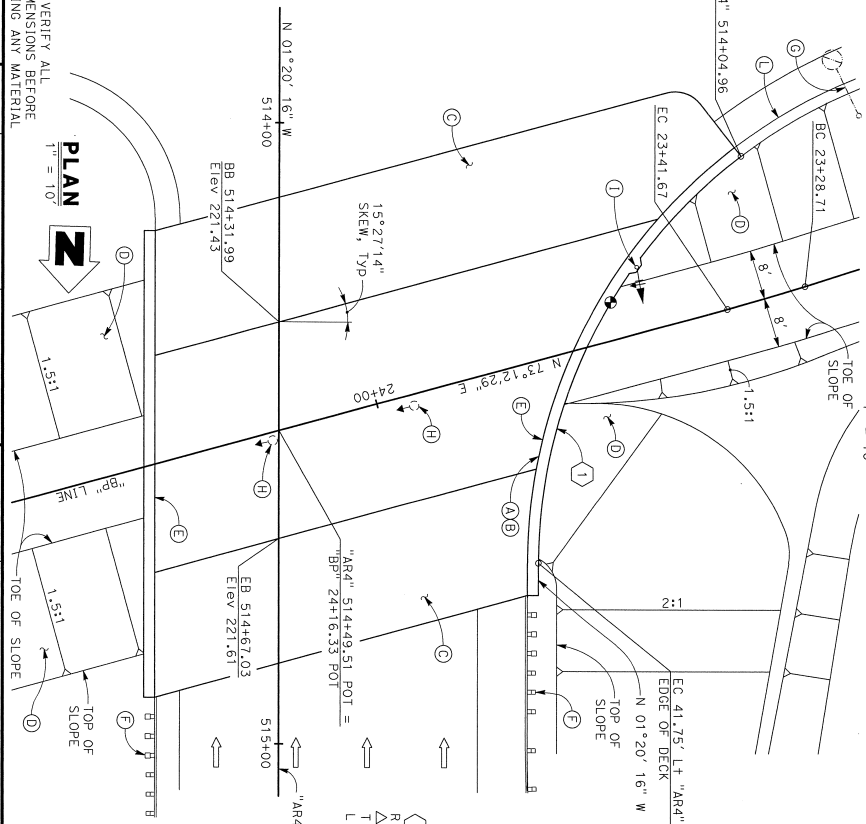
THE STATE OF CALIFORNIA: Department of Transportation, Division of Highways

Drawn by: KIM OUYANG
Checked by: ALSTON LAW
Region: 3-5-2020
Scale: 1" = 50'
Project Name: BLOSSOM HILL ROAD OC (WIDEN)
Project Number: 04-162804
Phase: PRELIMINARY DESIGN
Sheet: 25 OF 26

275.7 VC
R/C = -2.40
Elev 220.14
EVC 513+86.41
Elev 217.32
EVC 516+61.47
Elev 217.32



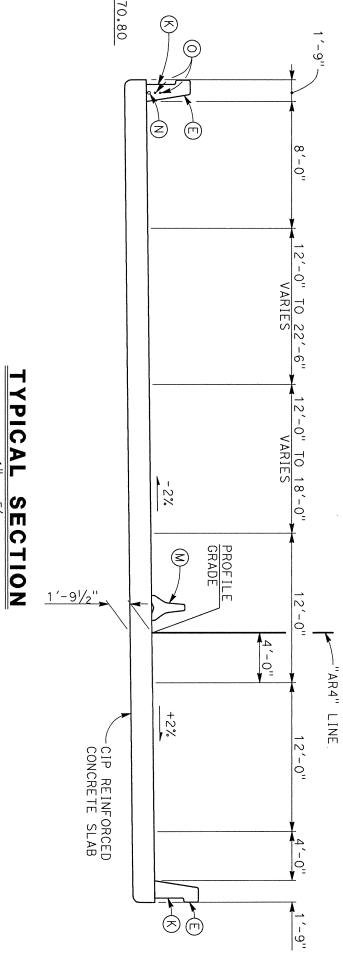
ELEVATION
1" = 10'



PLAN
1" = 10'

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL

DESIGN BY R. YAMANE	CHECKED BY A. RICHARDSON	DESIGNED BY A. RICHARDSON	DATE 3-5-2020
DESIGN CHECKED BY R. YAMANE	DESIGNED BY A. RICHARDSON	DATE 3-5-2020	
QUANTITIES BY D. HOZDORAKA	PREPARED BY G. KENNING	PROJECT NUMBER & PHASE 04-1K2804	



TYPICAL SECTION
1" = 5'

- LEGEND:
● Indicates Point of Minimum Vertical Clearance
⇨ Indicates Traffic Direction
- NOTES:
A Point "BRIDGE NO. 37-675U"
B Point "SB 101 OFF-RAMP PEDESTRIAN UC"
C Structure Approach Type N
D Slope Paving with Architectural Treatment, see "Roadway Plans"
E Concrete Barrier Type 842 (Mod)
F Midwest Guardrail System, see "Roadway Plans"
G Replace Signal Standoff, see "Roadway Plans"
H Soffit Lighting, see "Roadway Plans"
I Type 1B Signal Pole on barrier, see "Roadway Plans"
J Architectural Treatment on Wingwall, see "Roadway Plans"
K Architectural Treatment on Concrete Barriers, see "Roadway Plans"
L Concrete Barrier Type 60MG, see "Roadway Plans"
M Temporary Railing Type K, see "Roadway Plans"
N 3" Dia conduit to signal post, see "Roadway Plans"
O 2-2" Dia conduits, see "Roadway Plans"
P For Index to Plans, Quantities, and General Notes, see "INDEX TO PLANS" sheet.
Q For Pile Data Table, see "FOUNDATION PLAN" sheet.
R For Bench Mark and Datum, see "FOUNDATION PLAN" sheet.

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	PROJECT NUMBER & PHASE 04-1K2804	CONTRACT NO. 04-1K2804
DESIGNED BY G. KENNING	PROJECT ENGINEER R28.7/5	REGISTERED PROFESSIONAL ENGINEER No. 2639 Exp. 12/31/20
SB 101 OFF-RAMP PEDESTRIAN UC GENERAL PLAN	DATE 3/5/2020	SHEET NO. 1

DIST COUNTY ROUTE POST MILES TOTAL PROJECT TOTAL SHEET TOTAL
04 SCI 101 R28.4/R28.9 267 345

REGISTERED STRUCTURAL ENGINEER DATE
March 6, 2020
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

CITY OF SAN JOSE DOI
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113

BIGGS CARROSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20
DATE OF EXPIRATION
CITY OF CALIFORNIA

INDEX TO BRIDGE PLANS

SHEET	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	DECK CONTOURS
4	FOUNDATION PLAN
5	ABUTMENT 1 LAYOUT
6	ABUTMENT 2 LAYOUT
7	ABUTMENT DETAILS NO. 1
8	ABUTMENT DETAILS NO. 2
9	TYPICAL SECTION
10	SLAB REINFORCEMENT
11	SLAB DETAILS
12	STRUCTURE APPROACH SLAB TYPE N
13	STRUCTURE APPROACH DRAINAGE DETAILS
14	LOG OF TEST BORINGS 1 OF 1

**GENERAL NOTES
LOAD & RESISTANCE FACTOR DESIGN**

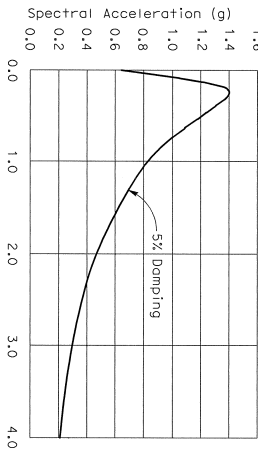
DESIGN: AASHTO LRFD Bridge Design Specifications, 6th Edition and Caltrans Amendments, preface dated Nov. 2014
 SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC) Version 1.7 dated April 2013
 DEAD LOAD: Includes 35 psf for future wearing surface
 LIVE LOAD: HL93 and permit design load
 CONCRETE: $f'_c = 60,000$ psi at 28 days (except as shown on "CONCRETE STRENGTH & TYPE LIMITS" diagram on "DECK CONTOURS" sheet
 $n = 8$
 $F_y = 45$ ksi
 ASTM A572 Gr 3
 STRUCTURAL STEEL: Caltrans ARS online Structural Steel:
 SEISMIC LOAD: Probabilistic for $V_{50} = 240$ m/s
 Moment Magnitude = 6.9
 Peak Ground Acceleration = 0.53g
 with the following modifications:
 1. No change of S_a for structural periods ≤ 0.5 seconds
 2. 20% increase of S_a for structural periods > 1 second
 3. Linear interpolation for structural periods between 0.5 and 1 second

2018 STANDARD PLANS

A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A7A	LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
A7B	LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
A7C	LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
A7D	LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)
A7E	LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
T3A	TEMPORARY RAILING (TYPE K)
BB-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
BB-1	STRUCTURE APPROACH - TYPE N(30)
BB-6	STRUCTURE APPROACH SLAB DETAILS
BB-9	STRUCTURE APPROACH STRAINAGE DETAILS
RSP 81-61	CONCRETE BARRIER TYPE 842 DETAILS NO. 1
RSP 811-82	CONCRETE BARRIER TYPE 842 DETAILS NO. 2

ABBREVIATIONS:
Eq EQUAL

LEGEND:
Indicates Caltrans Standard Plan sheet No.



ARS DESIGN CURVE
NO SCALE

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	440 CY
STRUCTURE BACKFILL (BRIDGE)	160 CY
FURNISH STEEL PILING (PP 18 X 0.625)	1766 LF
DRIVE STEEL PILE (PP 18 X 0.625)	32 EA
STRUCTURAL CONCRETE, BRIDGE	270 CY
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	205 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	145 CY
ARCHITECTURAL TREATMENT	610 SQFT
JOINT SEAL (NR = 1/2")	155 LF
BAR REINFORCING STEEL (BRIDGE)	103,500 LB
CONCRETE BARRIER TYPE 842	158 LF

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN: S. Lila
 DATE: 3-5-2020

DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/12)

DESIGN	BY	CHECKED
DETAILS	R. YAMANE	A. RICHARDSON
QUANTITIES	D. NOZDOROKA	R. RIVAS

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER & PHASE: 04160002241

CONTRACT NO.: 04-1X2B04

SB 101 OFF-RAMP PEDESTRIAN UC
INDEX TO PLANS

REGISTERED PROFESSIONAL ENGINEER
 March 6, 2020
 REGISTERED STRUCTURAL ENGINEER DATE
 CITY OF SAN JOSE, CA
 200 E. SANTA CLARA ST., 6TH FLOOR
 SAN JOSE, CA 95113
 BIGGS CARROSA ASSOCIATES INC.
 869 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126

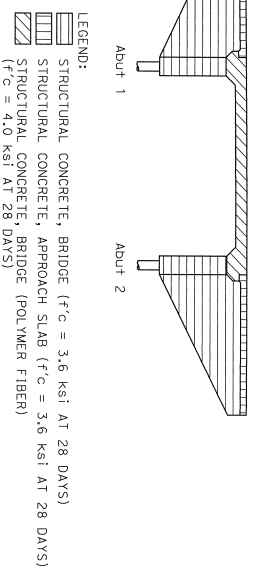
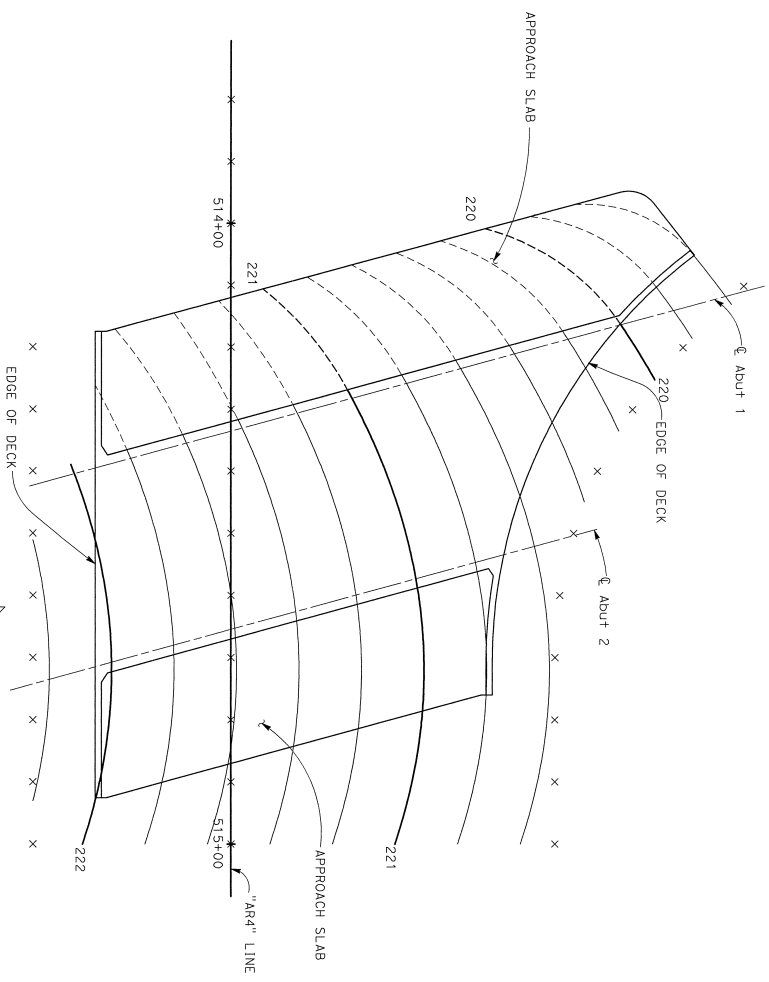
DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	289 / 345

REGISTERED STRUCTURAL ENGINEER DATE

March 6, 2020
 REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 EXPIRES 12/31/20
 STATE OF CALIFORNIA
 CIVIL ENGINEER

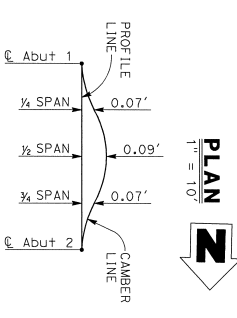
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.
 CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95113
 BIGGS CARDOSA ASSOCIATES INC.
 885 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95128

- NOTES:
- Contours indicate top of deck elevation.
 - x indicates 10 foot intervals measured along "ARD" Line.
 - Contour interval = 0.2'
 - Contours do not include camber or falsework settlement.
 - Deck contours on the approach slab adjacent to abutment 1 (shown thus: -----) must be field adjusted to conform to the deck contours of B8 & the existing road surface grades at the end of the approach slab.



CONCRETE STRENGTH AND TYPE LIMITS

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL



CAMBER DIAGRAM

NO SCALE

DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/13)

DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/13)	DESIGN	BY	CHECKED	DATE	PROJECT NUMBER & PHASE	CONTRACT NO.	DATE	REVISION DATES
3-5-2020	DESIGN	R. YAMANE	A. RICHARDSON		0000	04-1K2804		3/17/2020
	DETAILS	R. YAMANE	R. RICHARDSON					
	QUANTITIES	D. ROZFORKA	R. RIVAS					

PREPARED FOR THE
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

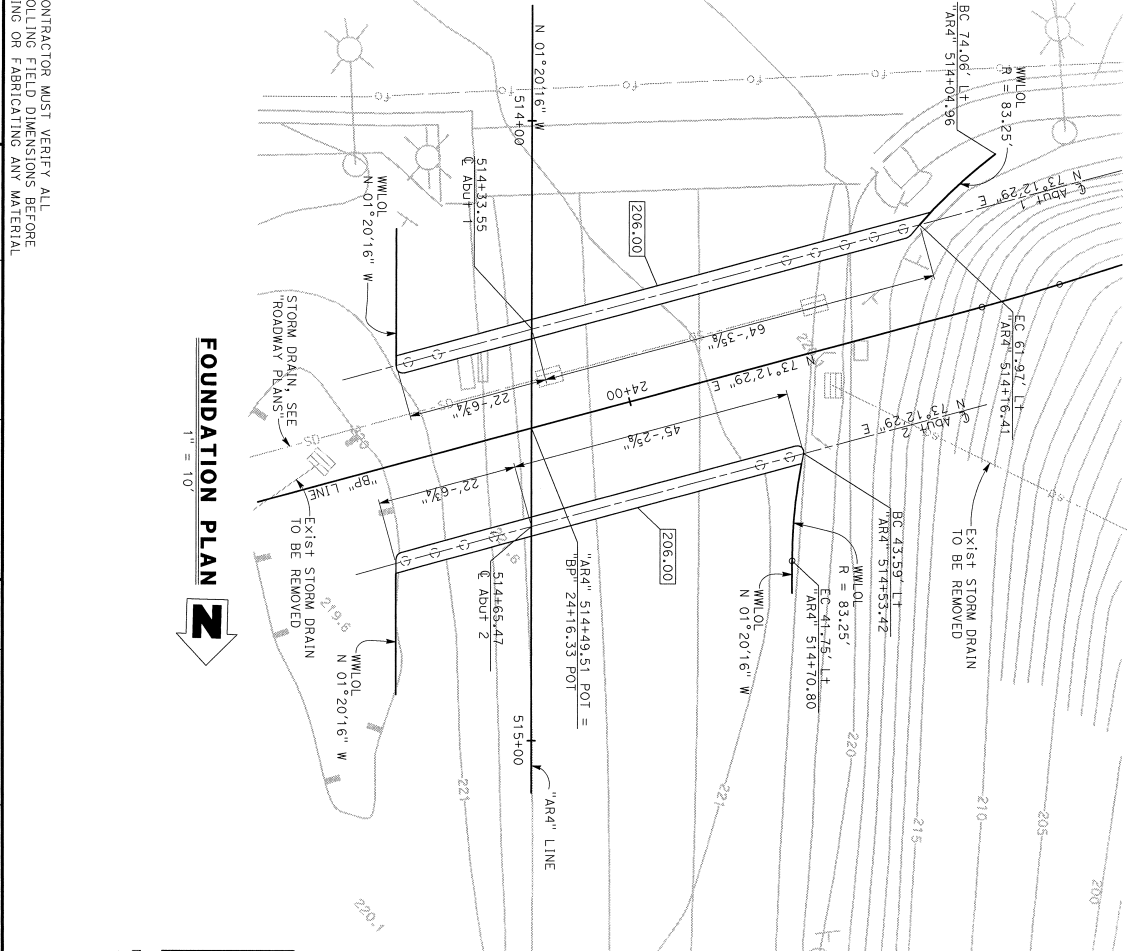
PROJECT ENGINEER
 G. KENNING

SB 101 OFF-RAMP PEDESTRIAN UC
 DECK CONTOURS

NOTE:
 THE CONTRACTOR MUST VERIFY ALL
 CONTROLLING FIELD DIMENSIONS BEFORE
 ORDERING OR FABRICATING ANY MATERIAL

DESIGN OVERSIGHT	SCALE AS SHOWN	VERTICALLY	NAVIG88	PROJECT	CCS83 ZONE 3
3-5-2020	PHOTODRAWN AS OF	JULY 2016	ALIGNMENT TIES	DESIGNED BY	R. YAMANE
	SURVEYED BY	HMH	CHECKED BY	RADMAN AERIAL	
	FIELD CHECKED BY	RADMAN AERIAL	CHECKED BY	RADMAN AERIAL	
	QUANTITIES	BY	R. YAMANE	ORDERED BY	A. RICHARDSON
			R. ROZORKA	SCALE	R. RIVAS
				ORIGINAL SIZE IN INCHES	

PREPARED FOR THE	STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION
PROJECT NO.	31-675J	R28.15
PROJECT ENGINEER		
REGISTERED PROFESSIONAL ENGINEER	NO. 2639	EXP. 12/31/20
CITY OF SAN JOSE DOI	200 E. SANTA CLARA ST., 8TH FLOOR	SAN JOSE, CA 95113
BIGGS CARDOSA ASSOCIATES INC.	865 THE ALAMERA	SAN JOSE, CALIFORNIA 95128
PLANS APPROVAL DATE	MARCH 6, 2020	
REGISTERED STRUCTURAL ENGINEER DATE	MARCH 17, 2020	
DISTRICT	COUNTY	ROUTE
04	SCI	101
TOTAL PROJECT	R28.4/R28.9	210
SHEET TOTALS		345



LEGEND:
 29.46 Indicates Bottom of Abutment Diaphragm Elevation
 29.46 Indicates Spot Elevation
 29.46 Indicates Pile, not all piles shown

NOTE:
 VERIFY UTILITY LOCATIONS WITH "ROADWAY PLANS"

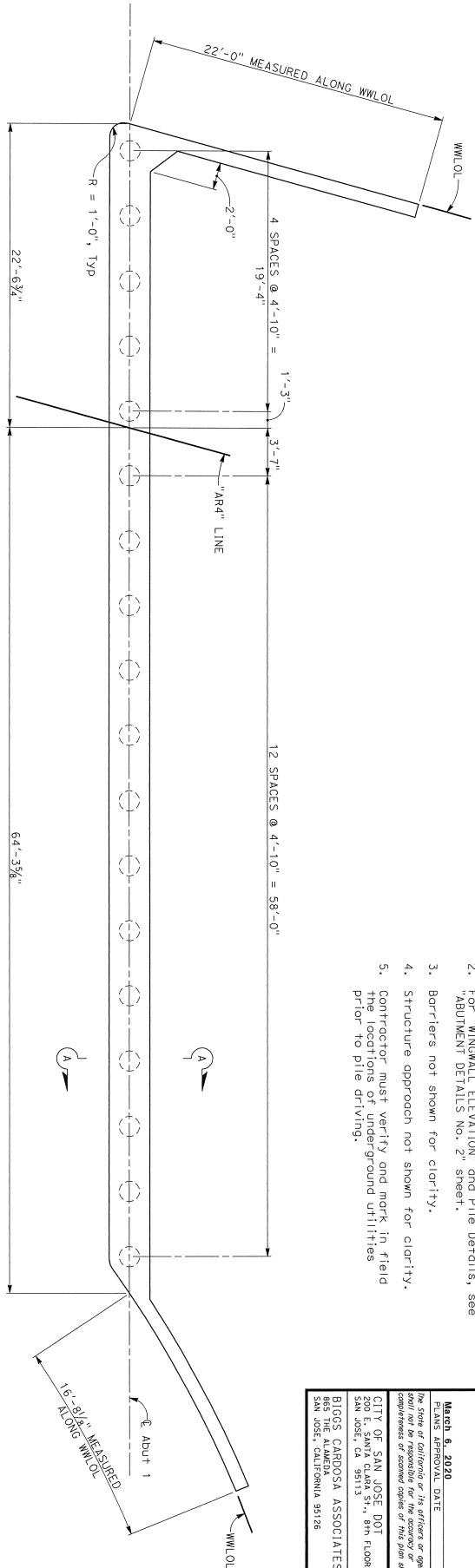
MONUMENT	COORDINATES		ELEVATION	DESCRIPTION/LOCATION
	NORTHING	EASTING		
107	1,918,675.697	6,184,775.266	220.36	SET MAG NAIL & SHINER ± 70' EAST OF SILVER CREEK VALLEY RD OVERPASS.
118	1,919,879.851	6,183,487.924	197.17	SET MAG NAIL & SHINER AT 101' SOUTHBOUND SHOULDER.

LOCATION	PILE TYPE	NOMINAL RESISTANCE		DESIGN TIP ELAV (+)	SPECIFIED TIP ELAV (+)	NOMINAL DRIVING RESISTANCE (kips)
		COMPRESSION	TENSION			
ABUTMENT 1	PP 18X0.625	200 kips	N/A	168.5(G); 181.0(G); 170.0(G)	168.5	300
ABUTMENT 2	PP 18X0.625	220 kips	N/A	129.0(G); 188.0(G); 170.0 (G)	129.0	620

- NOTES:
- Design tip elevations for Abutments are controlled by: (a) Compression, (c) Settlement, (d) Lateral load.
 - The specified tip elevation must not be raised above the design tip for lateral load, and tolerable settlement.

LEGEND:
 ○ Indicates PP 18 x 0.625 pile, see "ABUTMENT DETAILS No. 2" sheet

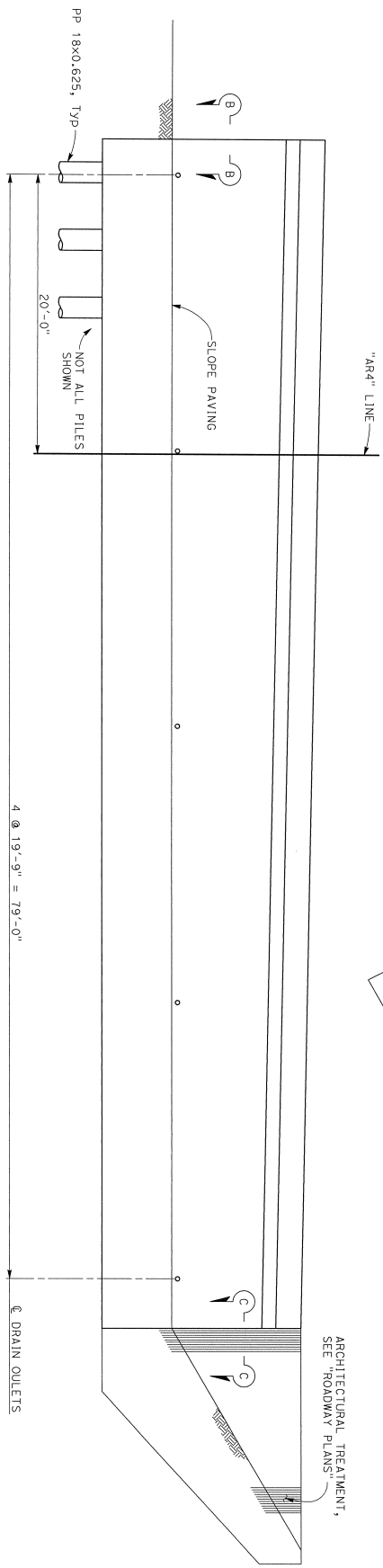
- NOTES:
1. For "SECTION A-A", "SECTION B-B", and "SECTION C-C", see "ABUTMENT ELEVATION" and Pile Details, see "ABUTMENT DETAILS No. 2" sheet.
 2. For "WINDMILL ELEVATION" and Pile Details, see "ABUTMENT DETAILS No. 2" sheet.
 3. Barriers not shown for clarity.
 4. Structure approach not shown for clarity.
 5. Contractor must verify and mark in field the locations of underground utilities prior to pile driving.



ABUTMENT 1 PLAN



1/4" = 1'-0"



ABUTMENT 1 ELEVATION

1/4" = 1'-0"

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT S. Liu 3-5-2020		DESIGN R. YAMANE		CHECKED A. RICHARDSON		DESIGNED FOR THE STATE OF CALIFORNIA		REGISTERED ARCHITECT 37-673U		PROJECT NO. R28-173		SB 101 OFF-RAMP PEDESTRIAN UC	
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/13)		DETAILS D. ROZFOROKA		CHECKED R. RIVAS		DEPARTMENT OF TRANSPORTATION		PROJECT ENGINEER		CONTRACT NO.: 04-1K2804		ABUTMENT 1 LAYOUT	
ORIGINAL SCALE IN INCHES 0		1		2		3		UNIT: PROJECT NUMBER & PHASE: 04160002241		CONTRACT NO.: 04-1K2804		SHEET OF 5	
DATE PLOTTED => #DATE		TIME PLOTTED => #TIME		USERNAME => #USER		2016309		2016309855					

DIST COUNTY ROUTE POST MILES SHEET TOTALS
 04 SCI 101 R28-4/R28-9 271 343

REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 EXPIRES 12/31/20

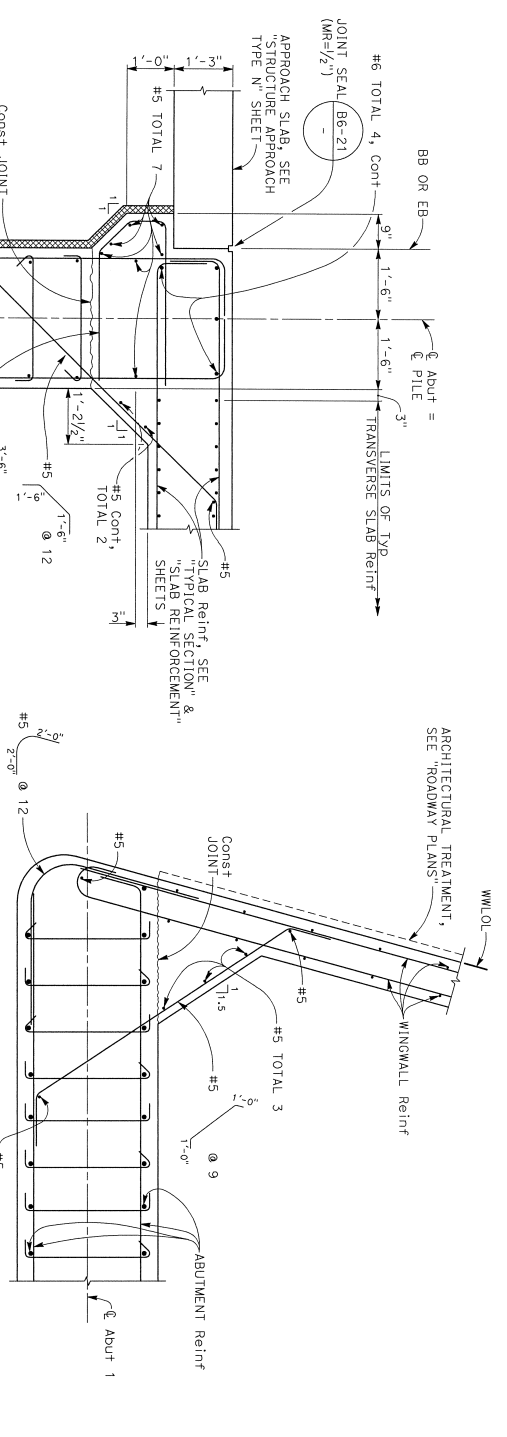
March 6, 2020
 PLANS APPROVAL DATE

REGISTERED STRUCTURAL ENGINEER DATE

City of San Jose DO1
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95113

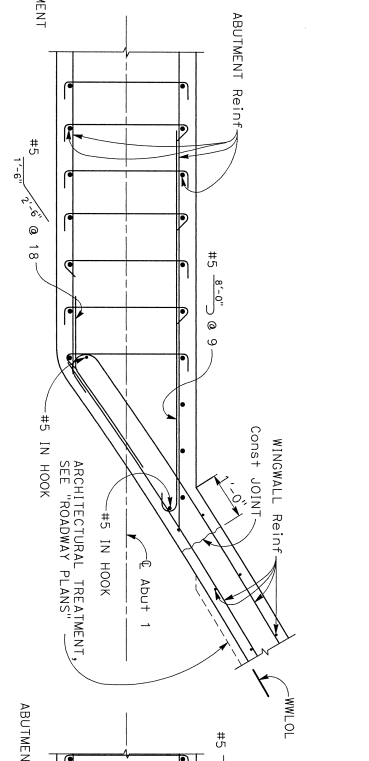
BIOSO CARDOSA ASSOCIATES, INC.
 865 THE ALAMEDIA
 SAN JOSE, CALIFORNIA 95128

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	213 / 345
March 6, 2020				
REGISTERED STRUCTURAL ENGINEER DATE				
PLANS APPROVAL DATE				
CITY OF SAN JOSE DOI				
200 E. SANTA CLARA ST., 8th FLOOR				
SAN JOSE, CA 95113				
BIGGS CARDOSA ASSOCIATES INC.				
865 THE ALAMEDA				
SAN JOSE, CALIFORNIA 95128				

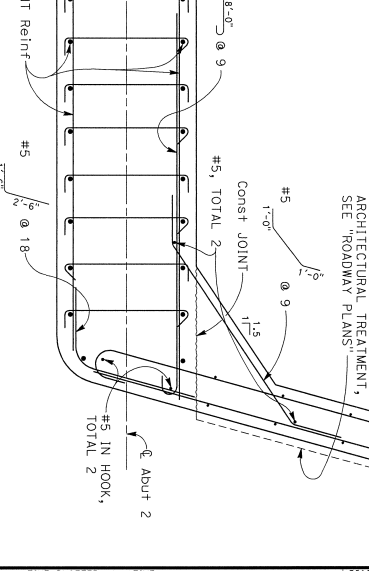


SECTION B-B
3/4" = 1'-0"

NOTE:
Abutment 1 shown,
Abutment 2 similar



SECTION C-C
3/4" = 1'-0"



SECTION D-D
3/4" = 1'-0"

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL

DESIGN REVISION	S. L/14
DATE	3-5-2020

DESIGN	R. YAMANE
DETAILS	R. YAMANE
QUANTITIES	D. ROZPORKA

DESIGNED	A. RICHARDSON
CHECKED	R. RICHARDSON
CREATED	R. RIVAS

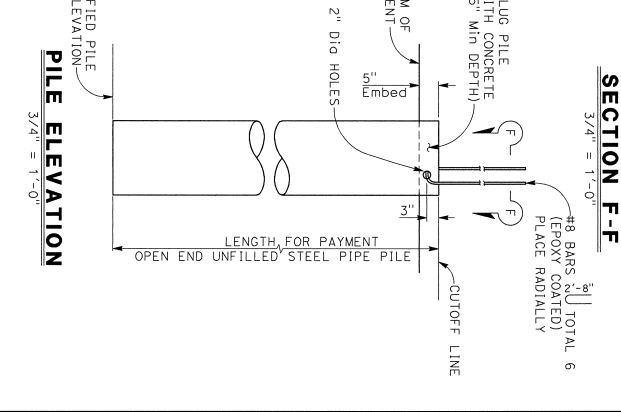
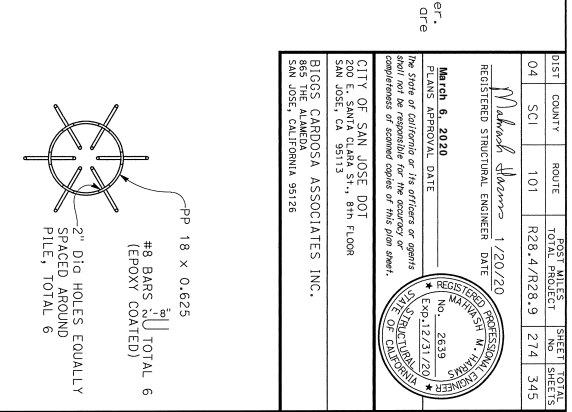
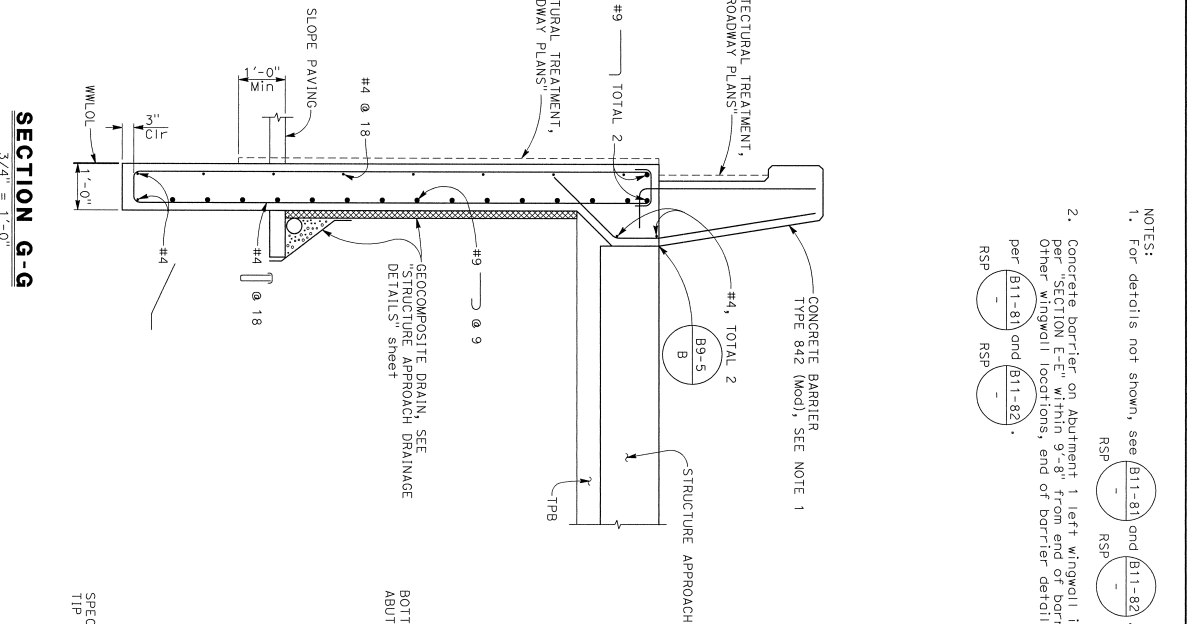
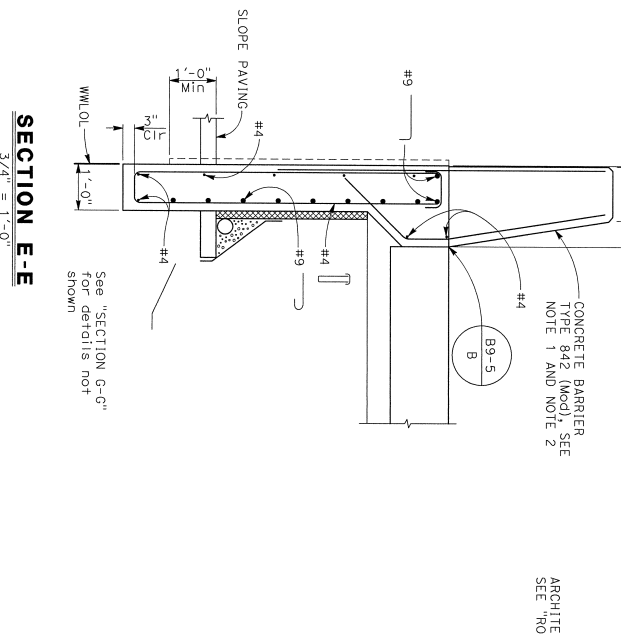
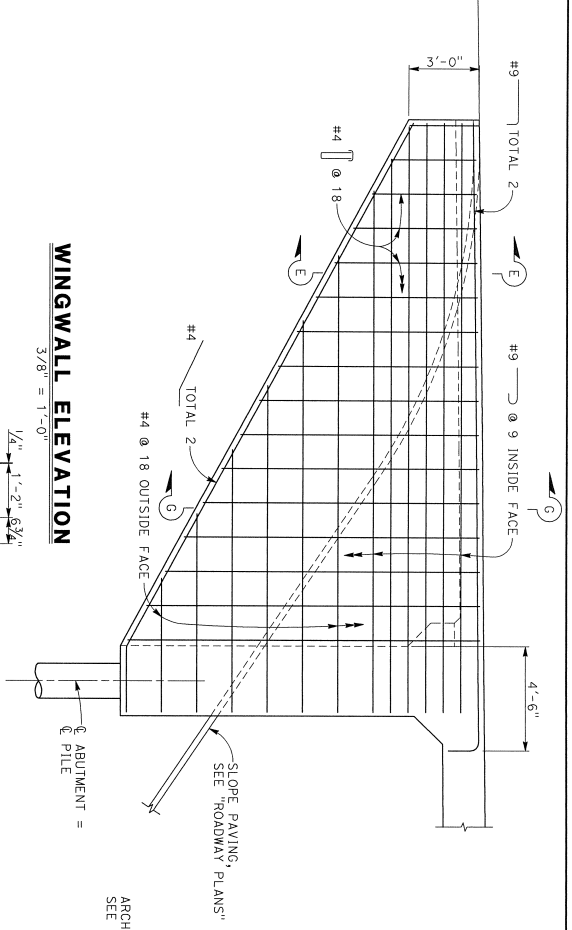
PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER	G. KENNING
PROJECT NO.	0000
PROJECT NUMBER & PHASE	04160002241

SB 101 OFF-RAMP PEDESTRIAN UC
ABUTMENT DETAILS NO. 1

DESIGNED	R. YAMANE
CHECKED	R. YAMANE
CREATED	R. YAMANE
DATE	3-5-2020
CONTRACT NO.	04-1K2804
SCALE	AS SHOWN
SHEET	7
OF	14

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	TOTAL PROJECT NO. 274	345
March 8, 2020 REGISTERED STRUCTURAL ENGINEER DATE REGISTERED PROFESSIONAL ENGINEER No. 2639 No. 12731/20 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet. CITY OF SAN JOSE DOT 200 E. SANTA CLARA ST., 8TH FLOOR SAN JOSE, CA 95113 BIGGS CARDOSA ASSOCIATES INC. 865 THE ALAMEDA SAN JOSE, CALIFORNIA 95128			REGISTERED PROFESSIONAL ENGINEER No. 2639 No. 12731/20 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.	



NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT	BY	CHECKED
S. Liu	R. YAMANE	A. RICHARDSON
3-5-2020	R. YAMANE	R. RICHARDSON
DESIGN DATE	BY	CHECKED
	D. ROZFORKA	R. RIVAS

DESIGN DETAILS	QUANTITIES	DESIGN	CHECKED
		R. YAMANE	A. RICHARDSON
		D. ROZFORKA	R. RICHARDSON
			R. RIVAS

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

UNIT:	PROJECT NUMBER & PHASE:	CONTRACT NO.:
0000	04160002241	04-1K2804

SB 101 OFF-RAMP PEDESTRIAN UC
ABUTMENT DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28-4/R28-9	275 / 345

March 6, 2020

REGISTERED STRUCTURAL ENGINEER DATE

PLANS APPROVAL DATE

March 6, 2020

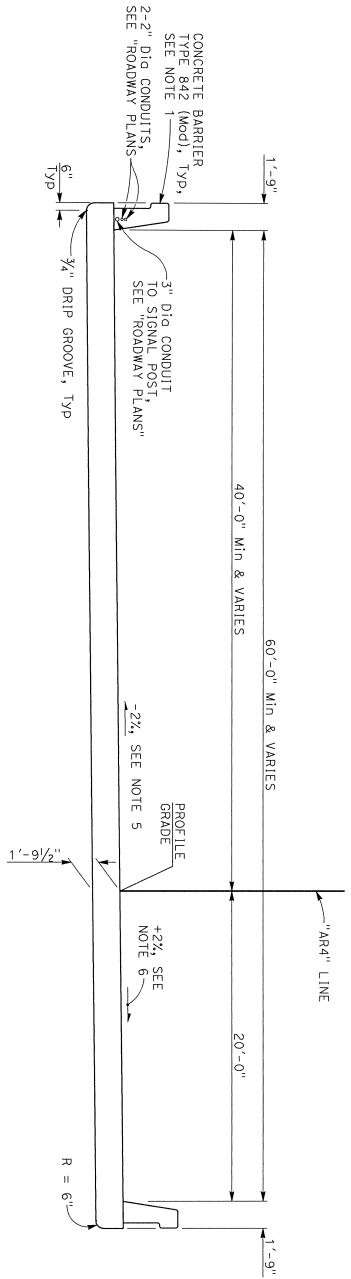
REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20

STATE OF CALIFORNIA
DIVISION OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEERS

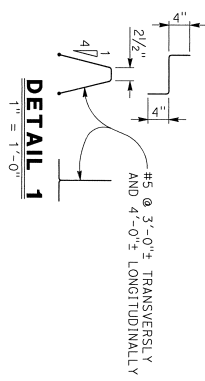
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113

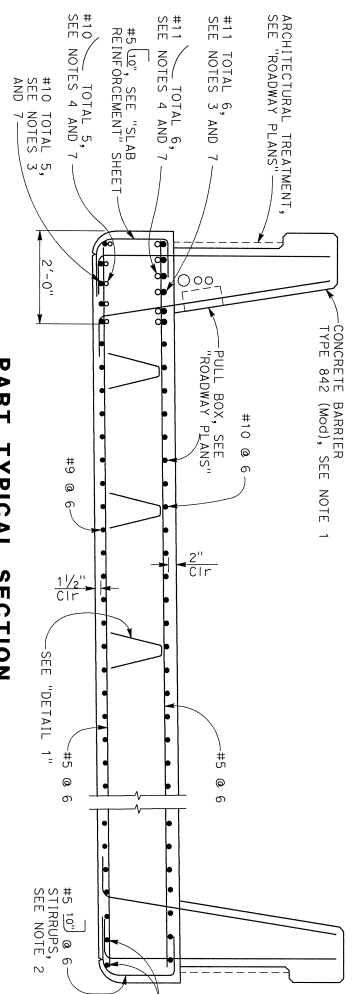
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126



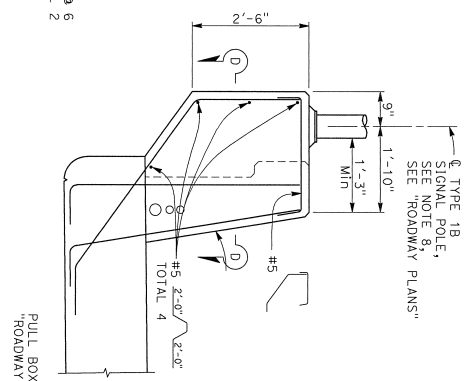
TYPICAL SECTION
1/4" = 1'-0"



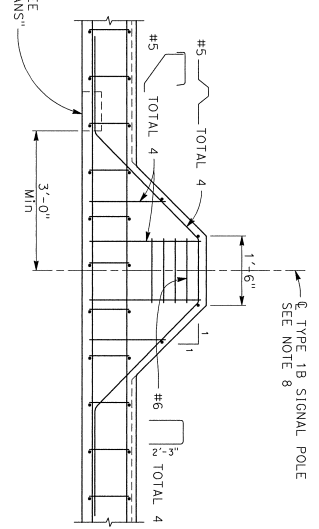
DETAIL 1
1" = 1'-0"



PART TYPICAL SECTION
3/4" = 1'-0"



**PEDESTAL ELEVATION
TYPE 1B SIGNAL POLE**
3/4" = 1'-0"



SECTION D-D
3/4" = 1'-0"

- NOTES:
- For details not shown, see (B11-81) and (B11-82). RSP
 - Place transverse reinforcement and stirrups parallel to the abutment and space along the "ARD" line.
 - Indicates full length straight reinforcement parallel to the "ARD" line. See "SLAB REINFORCEMENT" sheet.
 - Indicates curved continuous reinforcement. For details, see "SLAB DETAILS" sheet.
 - 2x and varies on approach slab of abutment 1. See Note 5 on "DECK CONTOURS" sheet.
 - +2x and varies on approach slab of abutment 1. See Note 5 on "DECK CONTOURS" sheet.
 - At left edge of deck only.
 - For TYPE 1B Signal Pole Details, see (ES-7B) (A-3).

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

DESIGN REVISION	S. Lih	DESIGN	A. RICHARDSON	CHECKED	A. RICHARDSON	DATE	0000
3-5-2020		DETAILS	R. YAMANE	CHECKED	R. RICHARDSON		
		QUANTITIES	B. R. YAMANE	CHECKED	R. RICHARDSON		
			D. ROZPORKA	CHECKED	R. RIVAS		

DESIGN DETAIL SHEET (ENGLISH REV. 02/14/12)

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER & PHASE: 04160002241

CONTRACT NO.: 04-1K2804

SB 101 OFF-RAMP PEDESTRIAN UC
TYPICAL SECTION

DESIGNED BY: [Signature]

DATE: 02/14/2020

SHEET 9 OF 14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO. OF SHEETS
04	SCI	101	R28.4/R28.9	216 345

Markel Williams 1/20/20
 REGISTERED STRUCTURAL ENGINEER DATE

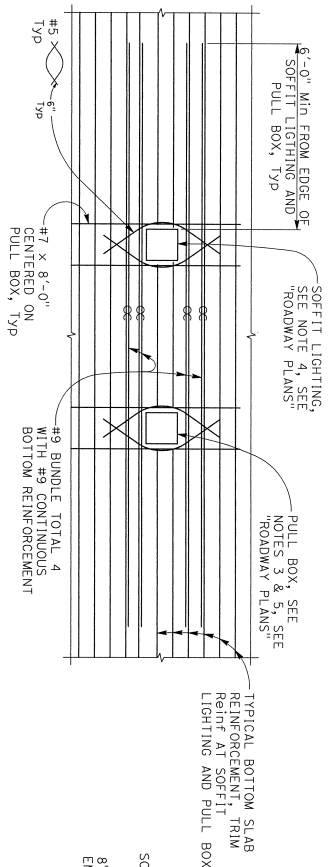
March 6, 2020
 PLAN APPROVAL DATE

the State of California or its officers or agents shall not be responsible for the accuracy or completeness of assumed details of this plan sheet.

CITY OF SAN JOSE, DOT
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95113

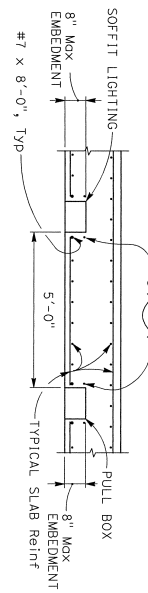
BIGGS CARDOSA ASSOCIATES INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95128

REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 Exp. 12/31/20
 STRUCTURAL
 STATE OF CALIFORNIA

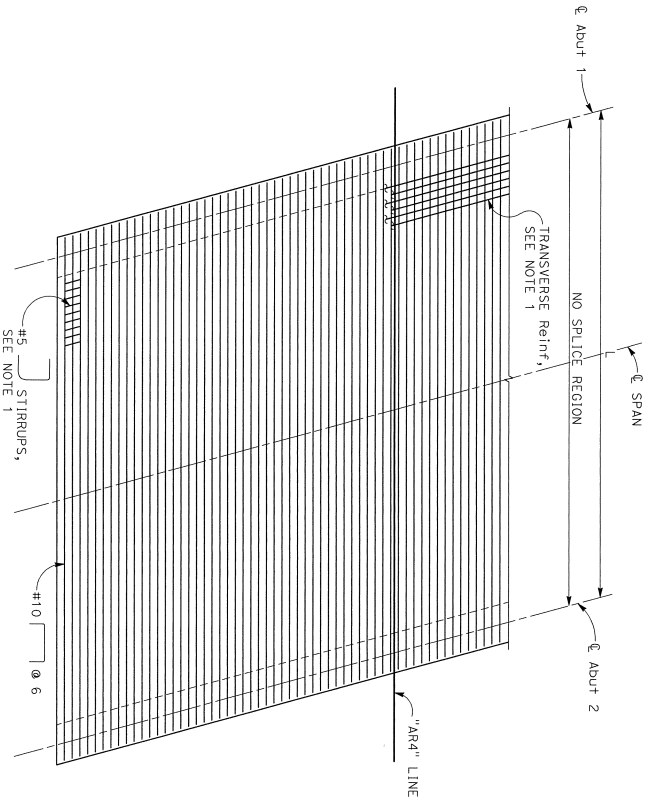


SOFFIT LIGHTING REINFORCEMENT DETAIL

NO SCALE

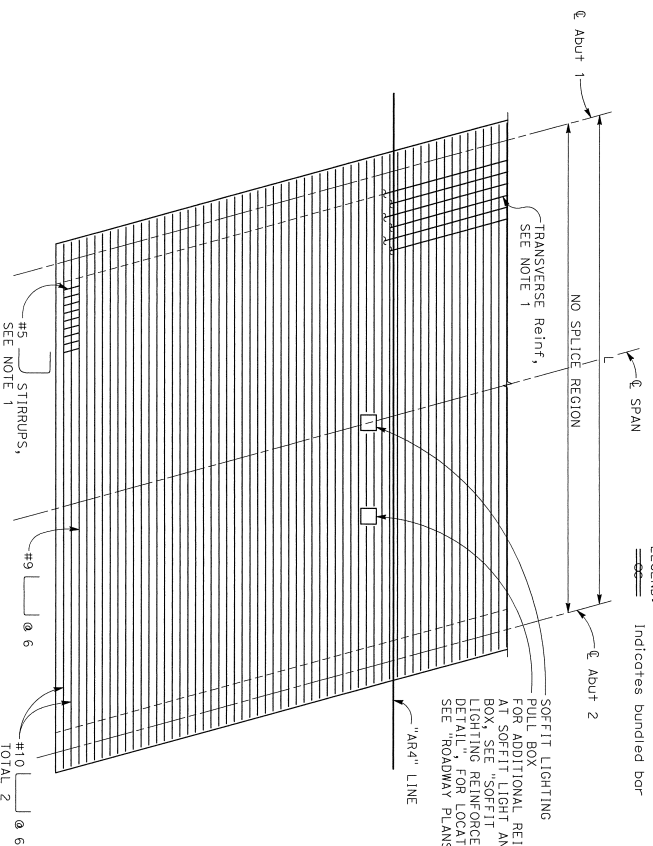


- NOTES:
- Not all transverse slab reinforcement and stirrups shown for clarity.
 - Main reinforcement must be placed parallel to "ARd" Line.
 - Pull box must be placed parallel to "ARd" Line with some offset to layout line as soffit lighting.
 - 1'-0"x1'-0"x8" maximum soffit lighting opening.
 - 1'-0"x1'-0"x8" maximum dimension for pull box.
- LEGEND:
- Indicates bundled bar



TOP SLAB REINFORCEMENT

NO SCALE

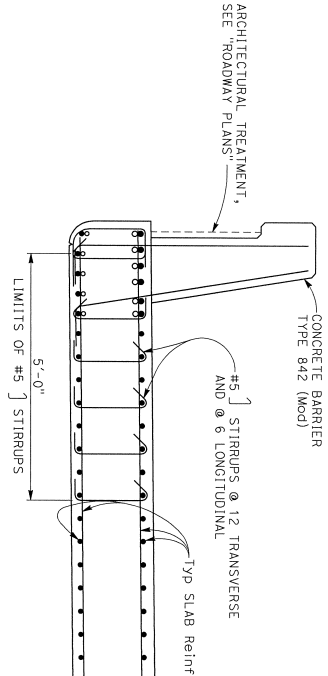


BOTTOM SLAB REINFORCEMENT

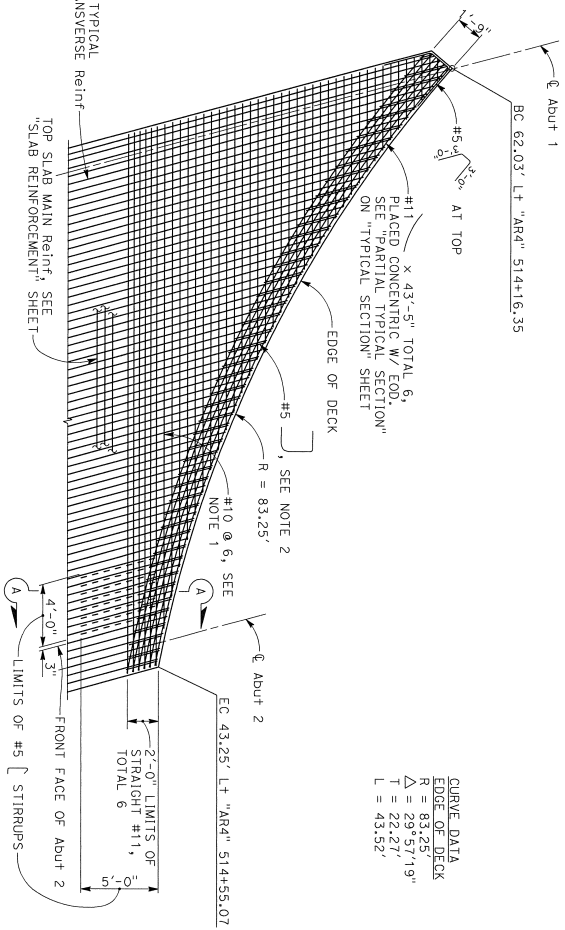
NO SCALE

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

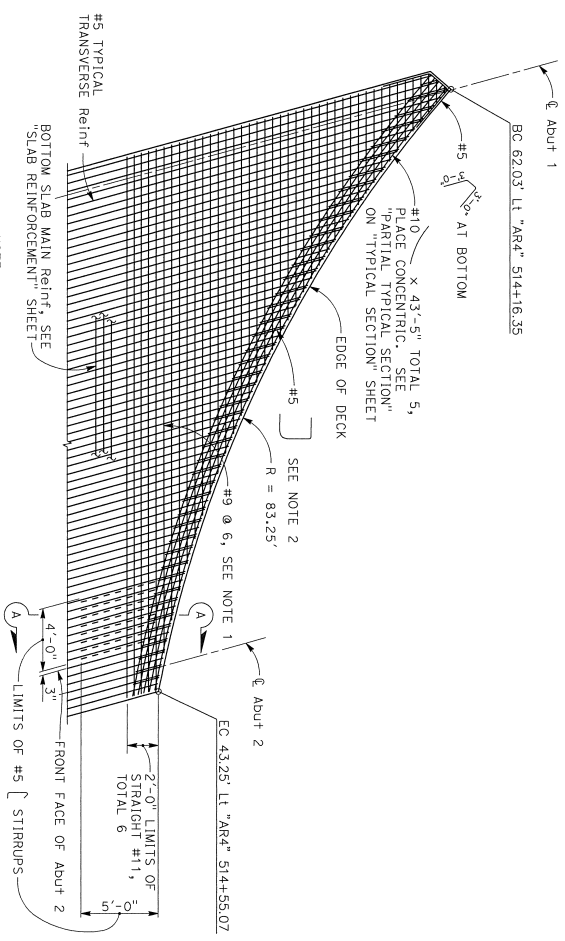
DESIGN OVERSIGHT S. Liu	DESIGN BY R. YAMANE	CHECKED BY A. RICHARDSON	DESIGNED BY R. YAMANE	DATE 3-5-2020
DESIGN CHECKED BY R. YAMANE	DESIGNED BY R. YAMANE	CHECKED BY R. RIVAS	DESIGNED BY R. RIVAS	
DESIGN QUANTITIES BY D. ROZPORA	DESIGNED BY D. ROZPORA	CHECKED BY R. RIVAS	DESIGNED BY R. RIVAS	
PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION			PROJECT NUMBER & PHASE: 041B0002241	
UNIT: 0000			CONTRACT NO.: 04-1K2804	
DESIGNED BY G. KENNING PROJECT ENGINEER			DRAWN BY M. B. BATES DATE 1/28/19	
SB 101 OFF-RAMP PEDESTRIAN UC SLAB REINFORCEMENT			SHEET NO. OF SHEETS 10 14	



SECTION A-A
3/4" = 1'-0"



ABUTMENT 1 WEST CORNER-TOP SLAB REINFORCEMENT



ABUTMENT 1 WEST CORNER-BOTTOM SLAB REINFORCEMENT



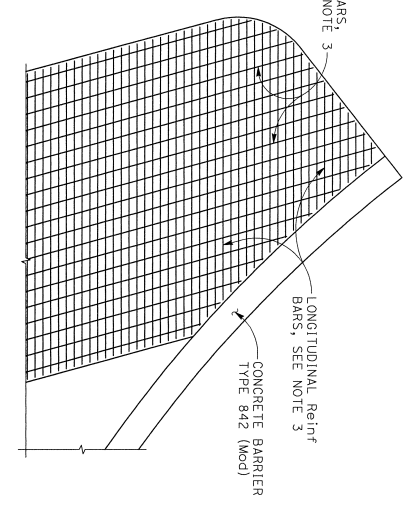
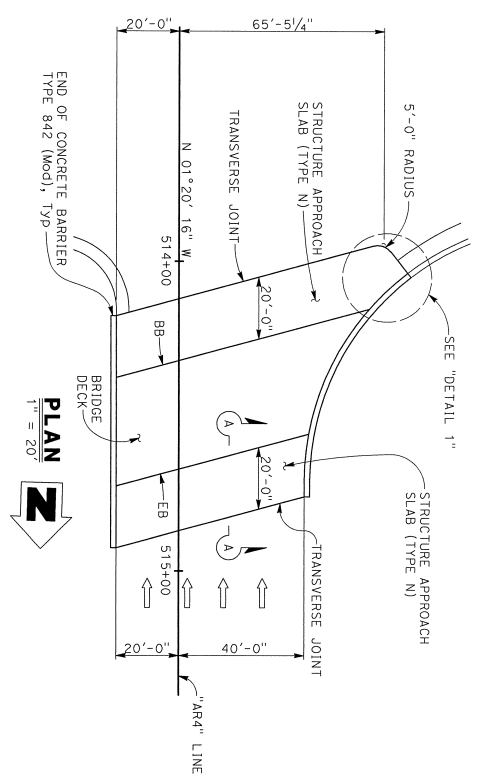
- NOTES:
1. Longitudinal reinforcement must be placed parallel to "AR4" Line except as noted.
 2. #5 and #5 must be placed parallel to transverse reinforcement.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	R28.4/R28.9	217	345

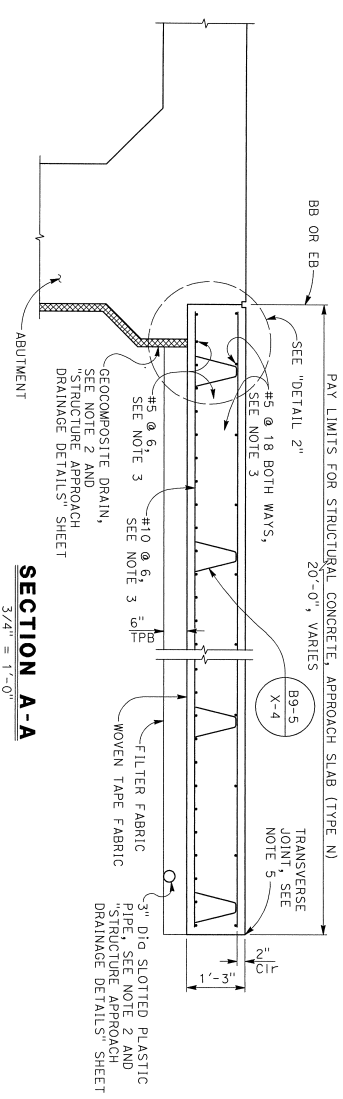
REGISTERED STRUCTURAL ENGINEER
March 6, 2020
 No. 2639
 EXPIRES 12/31/20
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER

City of San Jose, DOJ
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95113
 BIGGS CARDOSA ASSOCIATES, INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126

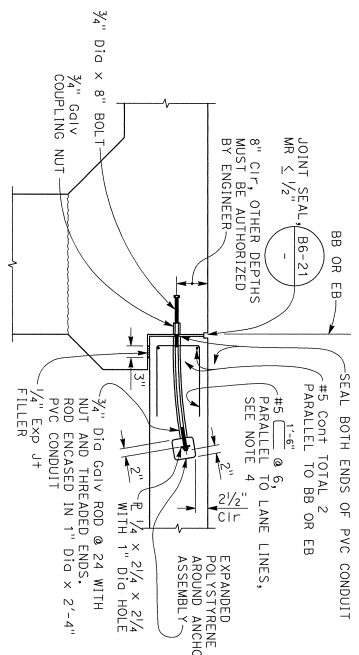
DESIGN OVERSIGHT	S	Li	DESIGN	B ^r R. YAMANE	CHECKED	A. RICHARDSON	DESIGNED FOR THE	STATE OF CALIFORNIA	PROJECT ENGINEER	DATE	3/7-6/20	
DESIGN			DETAILS	B ^r R. YAMANE	CHECKED	R. RICHARDSON	DEPARTMENT OF	TRANSPORTATION	TEST MILES		R28.4/5	
SIZE OF SHEET			QUANTITIES	B ^r D. ROZDROKA	CHECKED	R. RIVAS	PROJECT NUMBER & PHASE	04160002241	CONTRACT NO.	04-1K2804	DATE	3/7-6/20
DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/13)			ORIGINAL SIZE IN INCHES				UNIT:	0000	DESIGNED PRINTS BEARING		REVISION DATE	1/1
									FOR REVISION DATES			1/4



DETAIL 1
1/4" = 1'-0"



SECTION A-A
3/4" = 1'-0"



DETAIL 2
3/4" = 1'-0"

- NOTES:
1. For details not shown, see and .
 2. For structure approach drainage details, see .
 3. Place longitudinal reinf parallel to "RR4" Line. Place transverse reinf parallel to "EB" Line.
 4. Adjust reinforcement to clear saw cut for seal joint.
 5. Transverse joint must be a minimum of 5'-0" from an existing or constructed weakened plane joint in approach PCC roadway pavement. Refer to Standard Plans P10 and P14.

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	218 345

REGISTERED STRUCTURAL ENGINEER DATE

March 6, 2020

PLANS APPROVAL DATE

March 12, 2020

CITY OF SAN JOSE DOI
200 E. SANTA CLARA ST., 8th FLOOR
SAN JOSE, CA 95113

BIGGS CARDOSA ASSOCIATES, INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20

THE STATE OF CALIFORNIA
I, **Walter M. Williams**,
do hereby certify that the above
plans were prepared by me or
under my direct supervision and
I am a duly licensed Professional
Engineer in the State of California.

DESIGNER S. Liu 3-5-2020		DESIGN R. YAMANE B.R. YAMANE D. ROZPORKA		CHECKED A. RICHARDSON R. RICHARDSON R. RIVAS		DESIGNED A. RICHARDSON R. RICHARDSON R. RIVAS		PROJECT ENGINEER G. KENNING PROJECT ENGINEER R28.7-5		REGISTERED 3/7-6/20 R28.7-5	
PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION				UNIT: 0000				CONTRACT NO.: 04-1K2804			
SB 101 OFF-RAMP PEDESTRIAN UC STRUCTURE APPROACH SLAB TYPE N				DISSEMINATING SHEET DATE 				SHEET 12 OF 14			

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

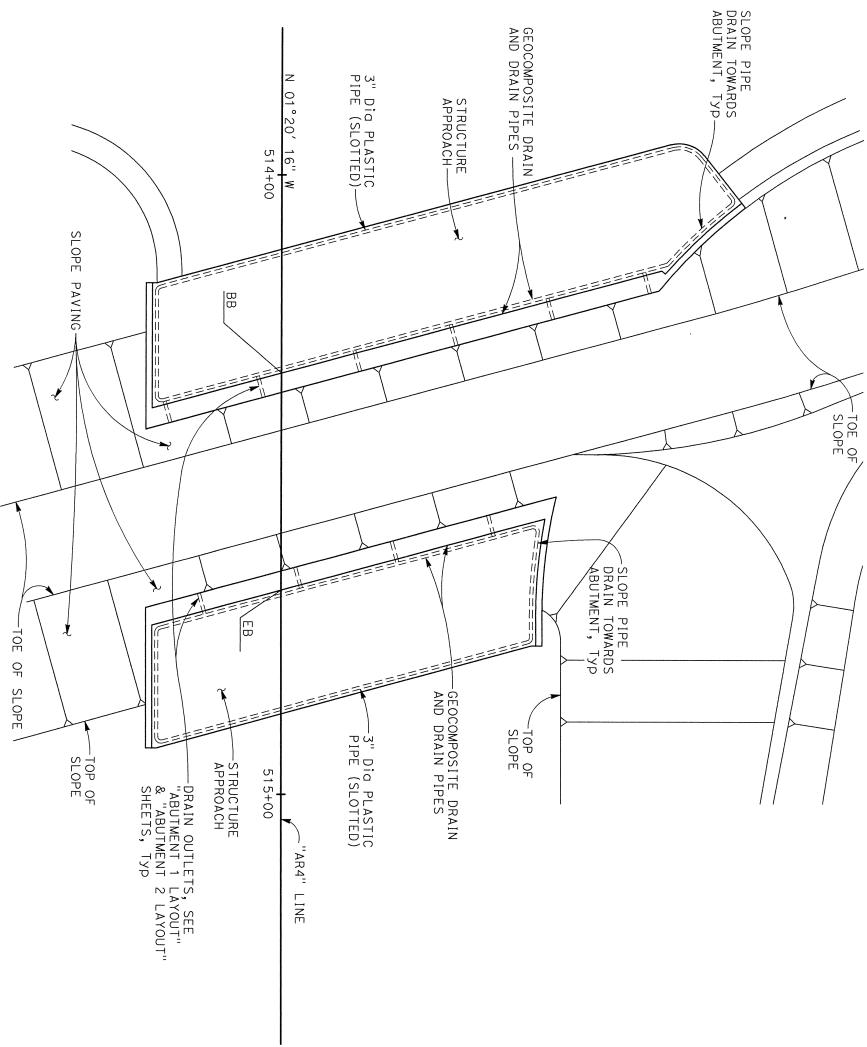
DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	219 / 345

REGISTERED STRUCTURAL ENGINEER DATE

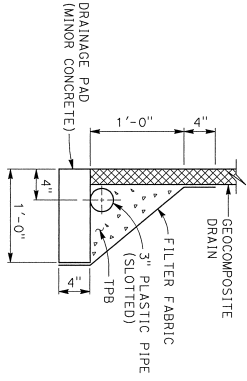
Manoel Soares 1/20/20
 REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 Exp. 12/31/20
 STATE OF CALIFORNIA
 CIVIL ENGINEER

March 6, 2020
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of assumed details of this plan sheet.
 CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95113
 BIGGS CARDOSA ASSOCIATES INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95128

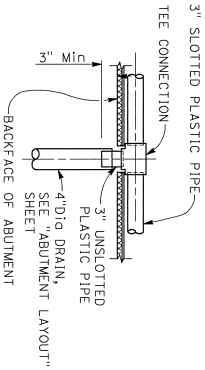
NOTES:
 1. For details not shown, see (B9-5) and (B9-6).



PLAN
 1" = 10'
 N



WITHOUT FOOTING



TEE CONNECTION

DRAINAGE DETAILS
 1 1/2" = 1'-0"

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

DESIGN OVERSIGHT	BY	DESIGN	BY
3-5-2020	R. YAMANE	A. RICHARDSON	R. YAMANE
	R. YAMANE	G. RICHARDSON	R. YAMANE
	D. ROZFORKA	R. RIVAS	R. YAMANE

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/13)	FOR REVISION SCALE IN INCHES	0	1	2	3
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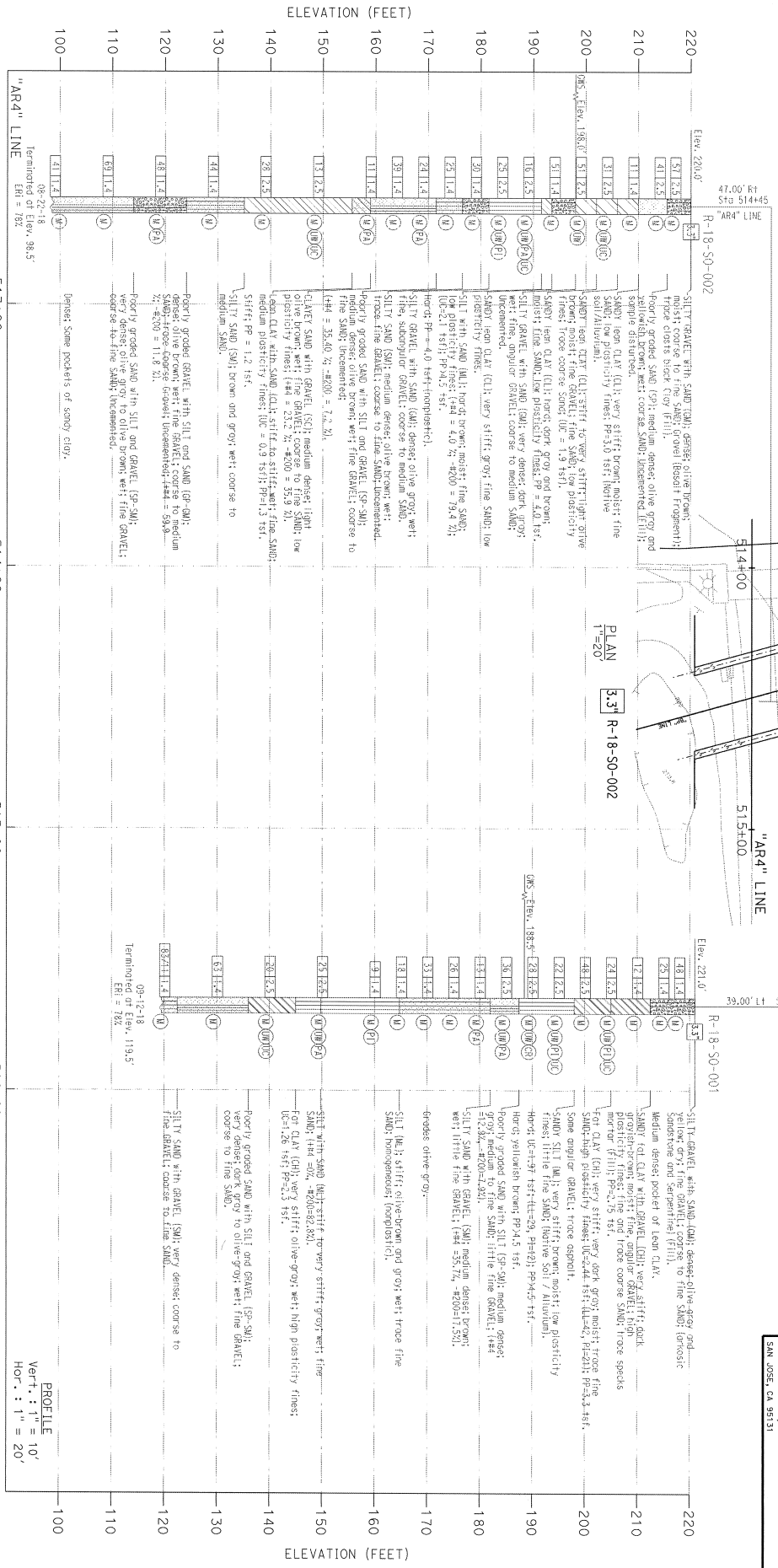
PREPARED FOR THE
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

UNIT:	0000
PROJECT NUMBER & PHASE:	04100002241
CONTRACT NO.:	04-1K2804

SB 101 OFF-RAMP PEDESTRIAN UC STRUCTURE APPROACH DRAINAGE DETAILS	REVISION DATES	SHEET	OF
		13	14

NOTES:

Standard Penetration Test Sampler 1.0" = 1.4"
 O.D. = 3" Modified Automatic Sampler 1.0" = 2.5"
 a 30" drop (Automatic Hammer)
 This LDR sheet was prepared in accordance with
 the California Soil & Rock Logging, Classification,
 and Presentation Manual (2010)
 See California 2015 Standard Plans A10F, A10G and
 A10H for Soil and Rock Legend.
 All dimensions are in feet unless otherwise shown



BENCH MARK:

NCS 00453 (HS 2787)
 Elev. 190.83
 4.7 miles northwest along the southern Pacific
 Company Railroad from the station at Coyote.
 Vertical Datum: NAVD83
 Horizontal Datum: CGCS83, Zone 3, Epoch 2010.00
 In U.S. Survey Feet.

BOREHOLE LOCATION TABLE

Hole ID	Alignment Name	Station and Offset
R-18-SO-001	"AR4" Line	514+75.39 Lt.
R-18-SO-002	"AR4" Line	514+45.47 Rt.

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

SB101 OFF-RAMP PEDESTRIAN UC

LOG OF TEST BORINGS 1 OF 1

REGISTERED PROFESSIONAL ENGINEER
 DATE: 10-15-19
 No. 668
 Exp. 12/31/19

CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95113

FARUKH CONSULTANTS, INC.
 2840 DUNE DRIVE, SUITE A
 SAN JOSE, CA 95131

CONTRACT NO.: 04-1K2804

PROJECT NUMBER & PHASE: 04160002241

DATE: AUGUST 2018 TO SEPTEMBER 2018

DESIGNED BY: ALSTON LAW

CHECKED BY: ALSTON LAW

DATE: 08-21-18

TERMINATED BY: 09-12-18

ELEVATION: 119.5'

SCALE: 1" = 10'

DATE: 08-21-18

TERMINATED BY: 09-12-18

ELEVATION: 119.5'

SCALE: 1" = 10'

DATE: 08-21-18

TERMINATED BY: 09-12-18

ELEVATION: 119.5'

SCALE: 1" = 10'

DESIGN OVERSIGHT: S. Liu

DESIGN DATE: 3-5-2020

DESIGNED BY: KIM OUYANG

CHECKED BY: ALSTON LAW

FILED INVESTIGATION BY: L.S. BHANOO

DATE: AUGUST 2018 TO SEPTEMBER 2018

PROJECT NUMBER & PHASE: 04160002241

CONTRACT NO.: 04-1K2804

DATE: 08-21-18

TERMINATED BY: 09-12-18

ELEVATION: 119.5'

SCALE: 1" = 10'

DATE: 08-21-18

TERMINATED BY: 09-12-18

ELEVATION: 119.5'

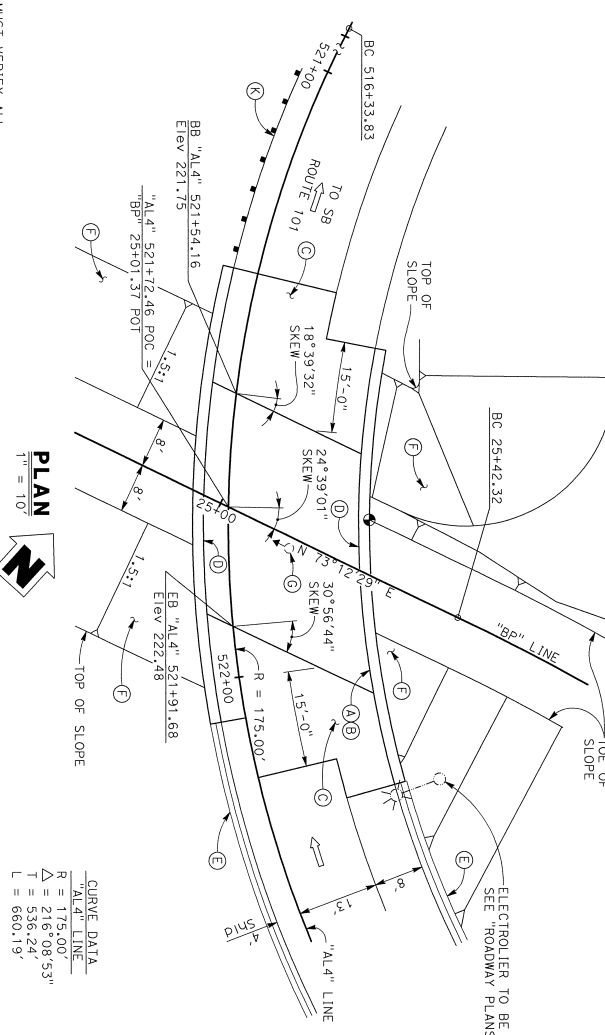
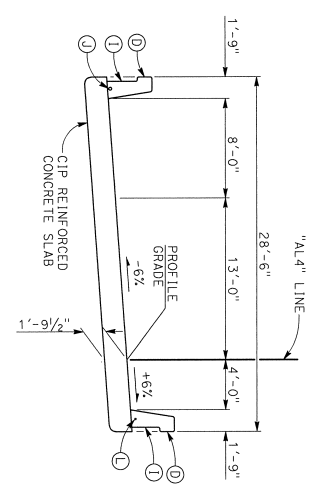
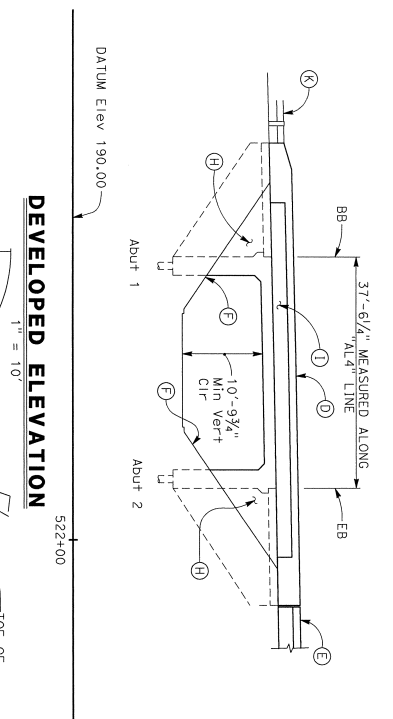
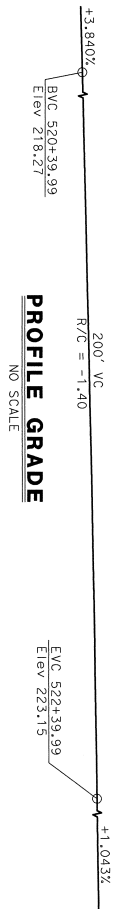
SCALE: 1" = 10'

DATE: 08-21-18

TERMINATED BY: 09-12-18

ELEVATION: 119.5'

SCALE: 1" = 10'



NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT	DESIGN	BY	ENGINEER
3-5-2020	R. YAMANE	R. YAMANE	A. RICHARDSON
DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 7/16/10)	QUANTITIES	BY	CHECKED
	D. RODRIGUEZ	R. RIVAS	A. RICHARDSON

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 7/16/10)	DESIGN	BY	ENGINEER
	R. YAMANE	R. YAMANE	A. RICHARDSON
	D. RODRIGUEZ	R. RIVAS	A. RICHARDSON
			G. KENNING

PREPARED FOR THE	LIVE LOADS	H-18 W/1.0M-40FT
STATE OF CALIFORNIA	REINFORCEMENT	REINFORCEMENT DESIGN VEHICLE
DEPARTMENT OF TRANSPORTATION	DESIGNED BY	A. RICHARDSON
	DESIGNED BY	A. NOTARIO

UNIT:	0.000
PROJECT NUMBER & PHASE:	04180002241
CONTRACT NO.:	04-1K2804
ENGINE NO.:	37-675K
PROJECT ENGINEER:	ROSS WILES
DATE:	8/28/24
SB 101 ON-RAMP PEDESTRIAN UC	
GENERAL PLAN	
DRAWING PRINTING SCALE:	AS SHOWN
SHEET NO.:	1
TOTAL SHEETS:	12

04 DIST COUNTY ROUTE 101 288.4/R28.9 281 345

04 SCI 101 R28.4/R28.9 281 345

REGISTERED PROFESSIONAL ENGINEER
MARCH 6, 2020
March 6, 2020
REGISTERED STRUCTURAL ENGINEER DATE

CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113

BIGGS CARDOSA ASSOCIATES INC.
965 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

- NOTES:
- A Paint "BRIDGE NO. 37-675K"
 - B Point "SB 101 LOOP ON-RAMP PEDESTRIAN UC"
 - C Structure Approach Type N
 - D Concrete Barrier Type 842 (Mod)
 - E Concrete Barrier Type 842B (Mod), see "Roadway Plans"
 - F Slope Paving with Architectural Treatment, see "Roadway Plans"
 - G Soffit Lighting, see "Roadway Plans"
 - H Architectural Treatment on Wingwall, see "Roadway Plans"
 - I Architectural Treatment on Concrete Barriers, see "Roadway Plans"
 - J 3" dia conduit, see "Roadway Plans"
 - K Midwest Guardrail System, see "Roadway Plans"
 - L 2" Dia conduit, see "Roadway Plans"
1. For Index to Plans, Quantities, and General Notes, see "INDEX TO PLANS" sheet.
2. For Pile Data Table, see "FOUNDATION PLAN" sheet.
3. For Bench Mark and Datum, see "FOUNDATION PLAN" sheet.

- LEGEND:
- Indicates point of Minimum Vertical Clearance
 - Indicates Traffic Direction

INDEX TO BRIDGE PLANS

SHEET	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	DECK CONTOURS
4	FOUNDATION PLAN
5	ABUTMENT LAYOUT
6	ABUTMENT DETAILS NO. 1
7	ABUTMENT DETAILS NO. 2
8	TYPICAL SECTION
9	SLAB REINFORCEMENT
10	STRUCTURE APPROACH SLAB TYPE N
11	STRUCTURE APPROACH DRAINAGE DETAILS
12	LOG OF TEST BORINGS 1 OF 1

GENERAL NOTES
LOAD & RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD Bridge Design Specifications, 6th Edition and Caltrans Amendments, preface dated January 2014
 SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC) Version 1.7 dated April 2013
 DEAD LOAD: Includes 35 psf for future wearing surface
 LIVE LOAD: HL93 and permit design load
 CONCRETE: $f'_c = 3800$ psi
 $f_y = 60,000$ psi
 at 28 days (except as shown on "CONCRETE STRENGTH & TYPE LIMITS" diagram on "DECK CONTOURS" sheet
 $n = 8$

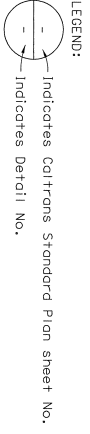
STRUCTURAL STEEL: Steel Pipe Pilest: $F_y = 45$ ksi
 ASTM A552, Grade 3

SEISMIC LOAD: Caltrans ARS Online
 Probabilistic for $V_{50} = 240$ m/s
 Moment Magnitude = 6.9
 Peak Ground Acceleration = 0.53g
 with the following modifications:
 1. No change of S_a for structural periods ≤ 0.5 seconds
 2. 20% increase of S_a for structural periods > 1 second
 3. Linear interpolation for structural periods between 0.5 and 1 second

2018 STANDARD PLANS

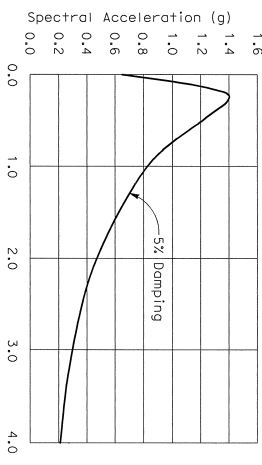
A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
A10B	LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B9-1	STRUCTURE APPROACH TYPE N(30)
B9-5	STRUCTURE APPROACH DRAINAGE DETAILS
B9-6	CONCRETE BARRIER TYPE DETAILS NO. 1
RSP 811-81	CONCRETE BARRIER TYPE 842 DETAILS NO. 1
RSP 811-82	CONCRETE BARRIER TYPE 842 DETAILS NO. 2

ABBREVIATIONS:
Eq EQUAL



NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

DESIGN APPROVED BY	S. Livi
DATE	3-5-2020
DESIGN DETAIL SHEET (ENGLISH REV. 04/14/13)	



ARS DESIGN CURVE
NO SCALE

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	225	CY
STRUCTURE BACKFILL (BRIDGE)	100	CY
FURNISH STEEL PILING (PP 18 X 0.625)	614	LF
DRIVE STEEL PILE (PP 18 X 0.625)	12	EA
STRUCTURAL CONCRETE, BRIDGE	120	CY
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	95	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	50	CY
ARCHITECTURAL TREATMENT	605	SQFT
JOINT SEAL (MR = 1/2")	64	LF
BAR REINFORCING STEEL (BRIDGE)	45,400	LB
CONCRETE BARRIER TYPE 842	146	LF

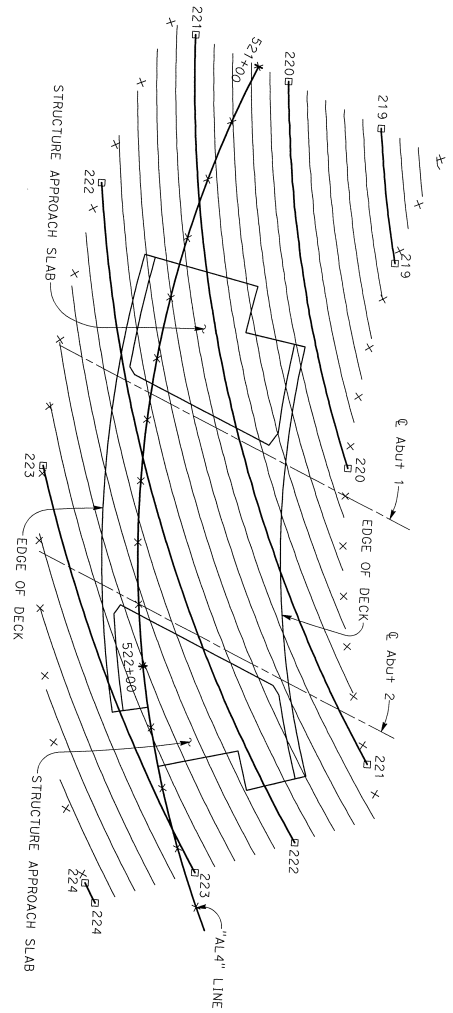
DESIGNER	BY	CHECKED	DATE	PROJECT NUMBER & PHASE	CONTRACT NO.	DATE	PROJECT NUMBER & PHASE	CONTRACT NO.
DETAILS	R. YAMANE	A. RICHARDSON		0000	04-1K2804		0000	04-1K2804
QUANTITIES	R. YAMANE	R. RICHARDSON						
	D. ROZPORA	R. RIVAS						

SB 101 ON-RAMP PEDESTRIAN UC
INDEX TO PLANS

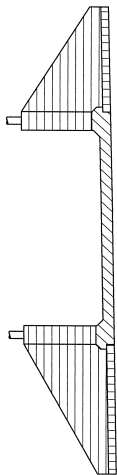
DIST COUNTY ROUTE POST MILES SHEET NO. OF SHEETS
 04 SCI 101 R28.4/R28.9 282 345

March 6, 2020
 REGISTERED STRUCTURAL ENGINEER DATE
 PLANS APPROVAL DATE
 No. 2639
 No. 12/21/20
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL ENGINEER
 CITY OF SAN JOSE DOI
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95131
 BIGGS CARDOZA ASSOCIATES, INC.
 885 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126

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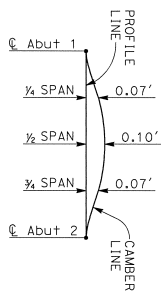


PLAN
1" = 10'



- LEGEND:
- STRUCTURAL CONCRETE, BRIDGE (f'c = 3.6 ksi AT 28 DAYS)
 - STRUCTURAL CONCRETE, APPROACH SLAB (f'c = 3.6 ksi AT 28 DAYS)
 - STRUCTURAL CONCRETE, BRIDGE, (POLYMER FIBER) (f'c = 4.0 ksi AT 28 DAYS)

CONCRETE STRENGTH AND TYPE LIMITS
NO SCALE



NOTE:
Camber does not include allowance for
falsework settlement

CAMBER DIAGRAM
NO SCALE

- NOTES:
1. Contours indicate top of deck elevation.
 2. x Indicates 10 foot intervals measured along "AL4" Line.
 3. Contour Interval = 0.2'
 4. Contours do not include camber or falsework settlement.

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	283 345

Mark Shivers 1/20/20
REGISTERED STRUCTURAL ENGINEER DATE

PLANS APPROVAL DATE
March 6, 2020

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200 E. SANTA CLARA ST., 8th FLOOR
SAN JOSE, CA 95131

BIGGS CARDOSA ASSOCIATES, INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

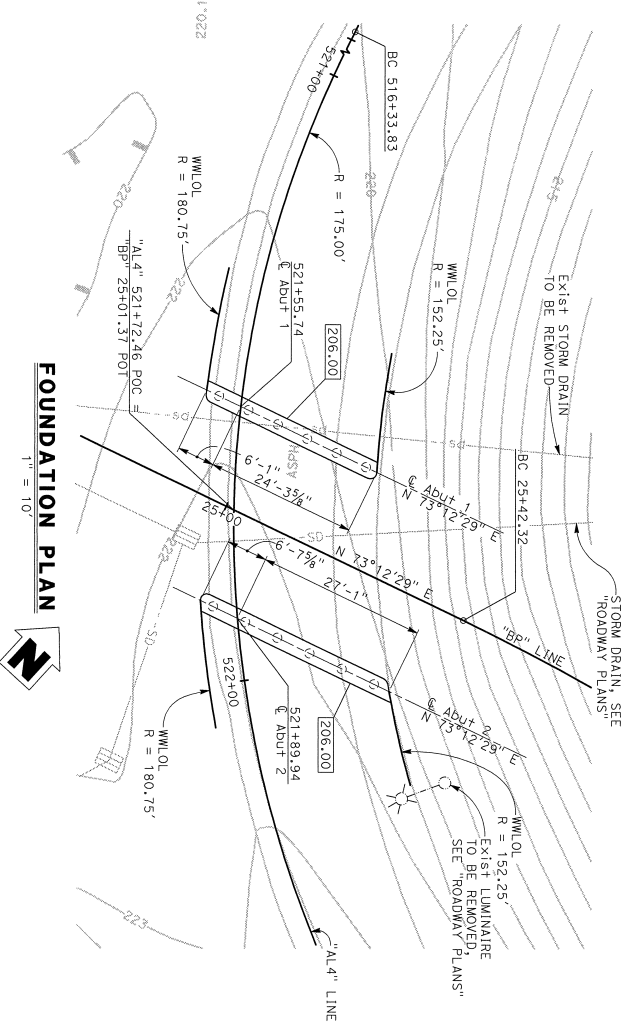
REGISTERED PROFESSIONAL ENGINEER
No. 2639
No. 12/21/20
STATE OF CALIFORNIA
DIVISION OF CONSTRUCTION

NOTE: THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.		DESIGN PRESIDENT S. Liu 3-5-2020		DESIGN BY R. YAMANE CHECKED A. RICHARDSON		DETAILS BY R. YAMANE CHECKED R. RICHARDSON		QUANTITIES BY D. ROZPORKA CHECKED R. RIVAS		ORIGINAL SIZE IN INCHES 0 1 2 3		PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		PRODUCT ENGINEER G. KENNING 37-673K TESI WELLS R28.4/4		SB 101 ON-RAMP PEDESTRIAN UC DECK CONTOURS		CONTRACT NO.: 04-1K2804 DATE PLOTTED => \$DATE	
---	--	---	--	---	--	--	--	--	--	------------------------------------	--	--	--	--	--	---	--	---	--

BENCH MARK AND DATUM			
MONUMENT	COORDINATES	ELEVATION	DESCRIPTION/LOCATION
107	NORTHING 1,918,675.697	EASTING 6,184,775.266	220.36 SET MAG NAIL & SHINER ± 70' EAST OF SILVER CREEK VALLEY RD OVERPASS.
118	NORTHING 1,919,879.851	EASTING 6,183,487.924	197.17 SET MAG NAIL & SHINER AT 101 SOUTHBOUND SHOULDER.

PILE DATA TABLE						
LOCATION	PILE TYPE	NOMINAL RESISTANCE		DESIGN TIP Elev (+ft)	SPECIFIED TIP Elev (+ft)	NOMINAL DRIVING RESISTANCE (kips)
		COMPRESSION	TENSION			
ABUTMENT 1	PP 18X0.625	260 kips	N/A	148.0(G); 186.0(G); 170.0(D)	148.0	460
ABUTMENT 2	PP 18X0.625	260 kips	N/A	162.5(G); 186.0(G); 170.0(D)	162.5	370

- NOTES:
- Design tip elevations for Abutments are controlled by: (G) Compression, (C) Settlement, (D) Lateral load.
 - The specified tip elevation must not be raised above the design tip for lateral load, and tolerable settlement.



FOUNDATION PLAN
 1" = 10'

LEGEND:
 29.6' Indicates Bottom of Abutment Disprogram Elevation
 29.6' Indicates Spot Elevation
 29.6' Indicates Pile, not all piles shown

- NOTES:
- Verify utility locations with "ROADWAY PLANS"
 - All WWL of concentric with "AL4" Line

REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 State of California
 REGISTERED STRUCTURAL ENGINEER DATE
 March 6, 2020
 PLANS APPROVAL DATE

March 6, 2020

CITY OF SAN JOSE D01
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95113

BIGGS CARDOSA ASSOCIATES INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126

POST MILES TOTAL PROJECT SHEET TOTAL
 04 SCI 101 R28.4/R28.9 284 | 345

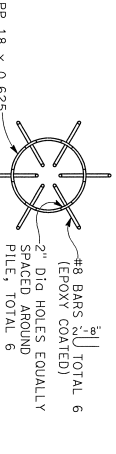
DESIGN OVERSIGHT S. Liu	SCALE: AS SHOWN	VERT. DATE NAV098	HORIZ. DATE CCS93, ZONE 3	DESIGN R. YAMANE	DESIGN A. RICHARDSON	PROJECT NO. 31-673K	SB 101 ON-RAMP PEDESTRIAN UC FOUNDATION PLAN
DESIGN CHECKER 3-5-2020	PHOTOGRAPHY AS OF: JULY 2016	ADJUSTMENT HHS	BY: RADWAN AERIAL	BY: R. YAMANE	BY: A. RICHARDSON	POST MILES R28.4/4	
DATE OF SHEET	FIELD CHECKED BY: RADWAN AERIAL	CHECKED	BY: RADWAN AERIAL	BY: D. ROZPORKA	BY: R. RIVAS	CONTRACT NO.: 04-1K2804	DISSEMINATION SHEETS EARLIER REVISION DATES

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	286 / 345

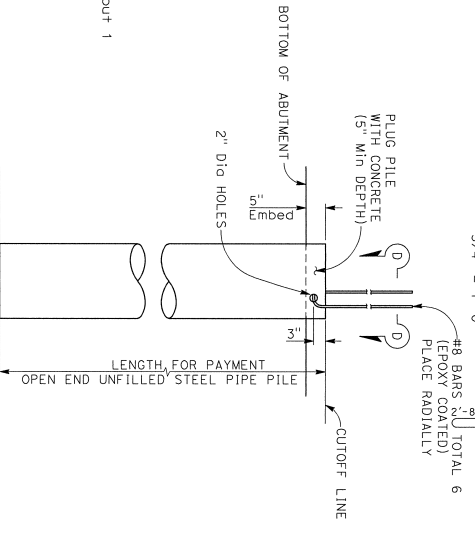
REGISTERED STRUCTURAL ENGINEER DATE
March 6, 2020
 PLANS APPROVAL DATE
 No. 2639
 No. 12/23/20
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 CIVIL ENGINEER
 No. 2639
 No. 12/23/20
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 CIVIL ENGINEER

CITY OF SAN JOSE, DOI
 200 E. SANTA CLARA ST., 6TH FLOOR
 SAN JOSE, CA 95131
 BIGGS CARDOSA ASSOCIATES, INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126

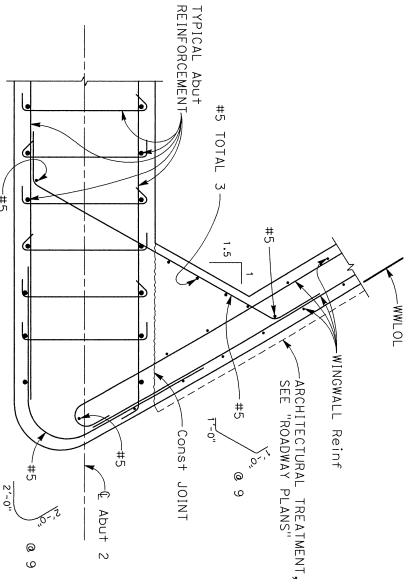
- NOTES:
- Backfill behind abutments must not be placed higher than the fill in front of abutments until 7 days after superstructure is complete.
 - Wingwalls must not be constructed until 7 days after superstructure is complete.
 - After completion of superstructure and wingwalls backfill must be placed uniformly at both abutments. Backfill behind one abutment must not exceed backfill behind the other abutment by more than 2 feet.



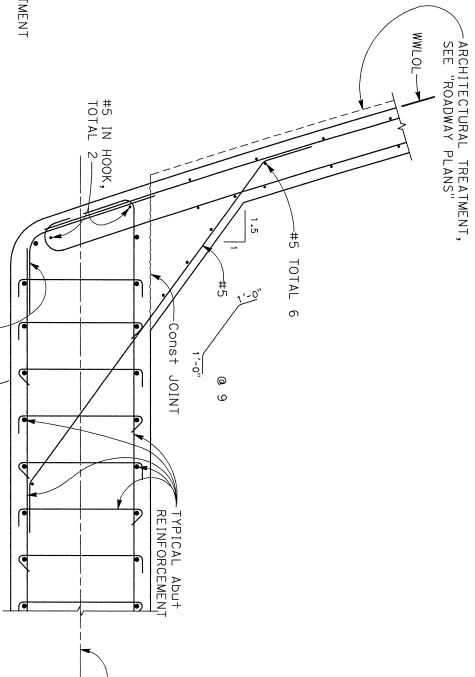
SECTION D-D
 3/4" = 1'-0"



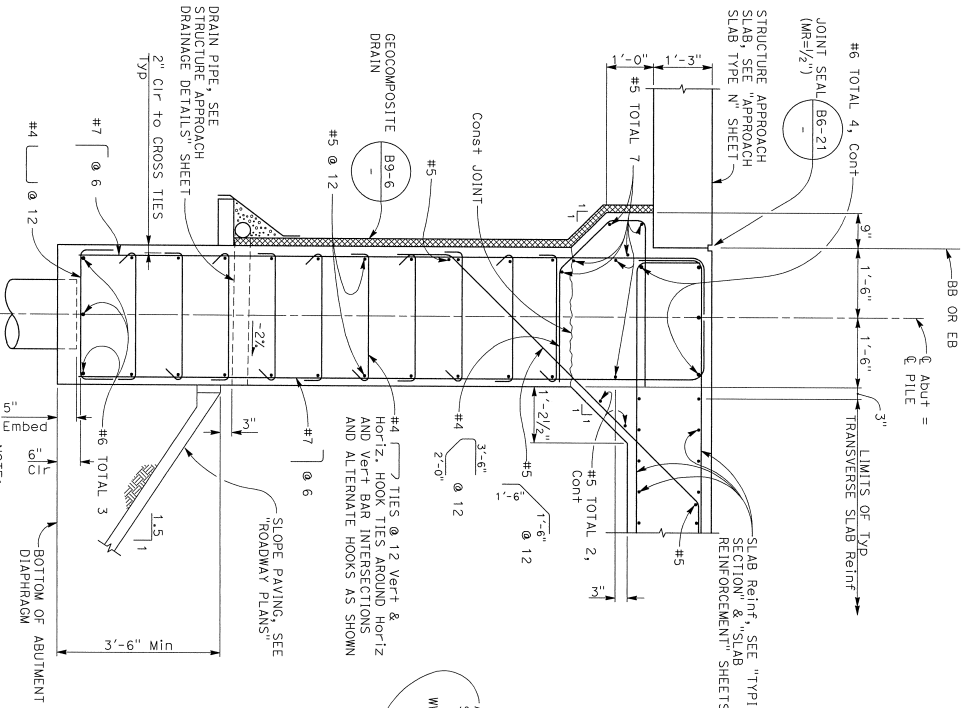
PILE ELEVATION
 3/4" = 1'-0"



SECTION B-B
 3/4" = 1'-0"



SECTION C-C
 3/4" = 1'-0"



SECTION A-A
 3/4" = 1'-0"

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY	CHECKED	DATE	DESIGN	BY	CHECKED	DATE
S. LIA	R. YAMANE	A. RICHARDSON		S. LIA	R. YAMANE	A. RICHARDSON	
3-5-2020		D. ROZDOROKA				R. RIVAS	

SECTION	DATE	SHEET	OF
SB 101 ON-RAMP PEDESTRIAN UC		6	12

PROJECT NUMBER & PHASE	CONTRACT NO.	DATE PLOTTED
04-1K2804	04-1K2804	

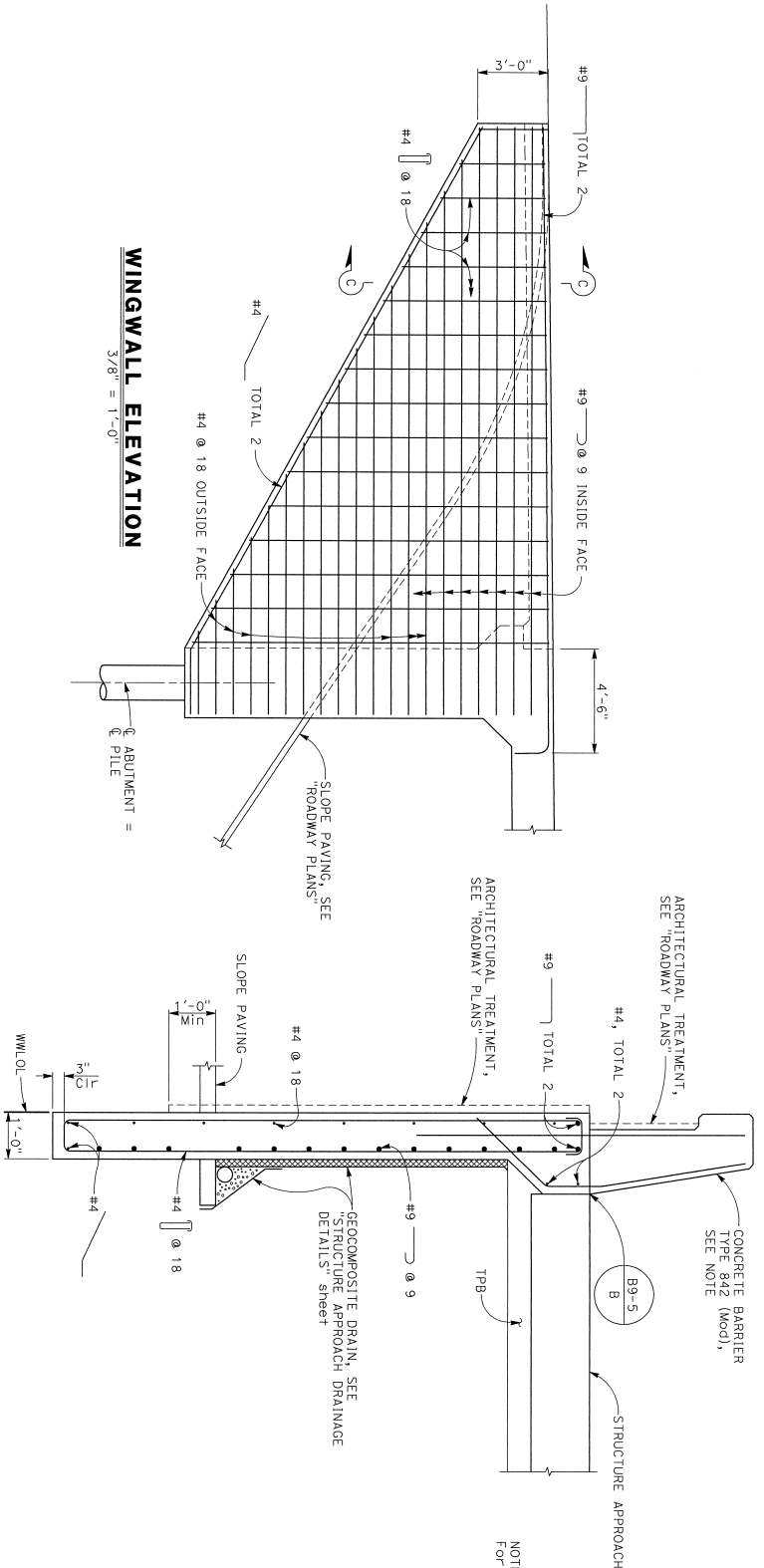
SB 101 ON-RAMP PEDESTRIAN UC
ABUTMENT DETAILS No. 1

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	287 / 345

March Williams 1/20/20
 REGISTERED STRUCTURAL ENGINEER DATE
 March 6, 2020
 No. 2639
 No. 12/21/20
 REGISTERED PROFESSIONAL ENGINEER
 MARCH WILLIAMS
 No. 2639
 No. 12/21/20
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 No. 12/21/20

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 200 E. SANTA CLARA ST., 8TH FLOOR
 SAN JOSE, CA 95113
 BLOGS CARDOZA ASSOCIATES INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95128

NOTE:
 FOR DETAILS NOT SHOWN, SEE RSP [B11-81] AND RSP [B11-82].



WINGWALL ELEVATION
 3/8" = 1'-0"

SECTION C-C
 3/4" = 1'-0"

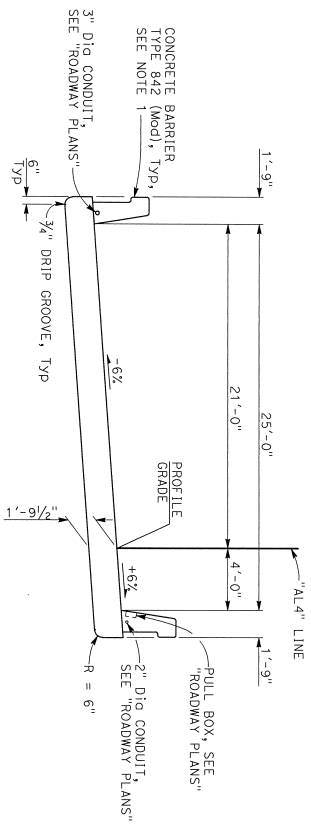
NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY	DESIGN	BY	DESIGN	BY	DESIGN	BY
DETAILS	R. YAMANE	DETAILS	R. YAMANE	DETAILS	R. YAMANE	DETAILS	R. YAMANE
QUANTITIES	D. ROZPORKA	QUANTITIES	D. ROZPORKA	QUANTITIES	D. ROZPORKA	QUANTITIES	D. ROZPORKA
SECTION OVERSIGHT	S. Liu	SECTION OVERSIGHT	S. Liu	SECTION OVERSIGHT	S. Liu	SECTION OVERSIGHT	S. Liu
DATE	3-5-2020	DATE	3-5-2020	DATE	3-5-2020	DATE	3-5-2020

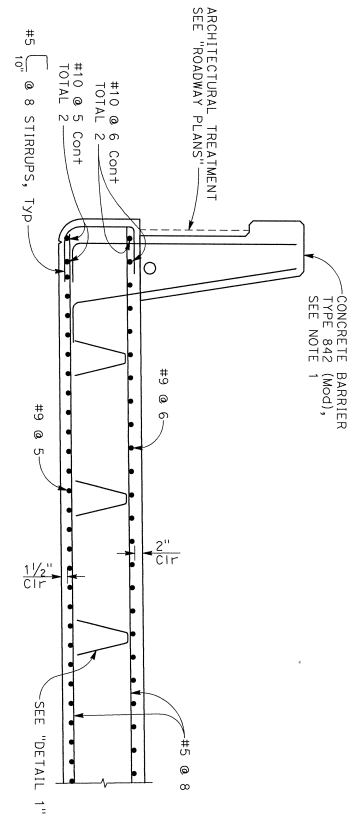
PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

UNIT:
 PROJECT NUMBER & PHASE: 04160002241 CONTRACT NO.: 04-1K2904

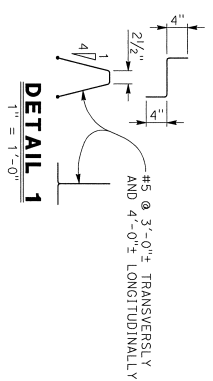
SB 101 ON-RAMP PEDESTRIAN UC
 ABUTMENT DETAILS No. 2



TYPICAL SECTION
1/4" = 1'-0"



PART TYPICAL SECTION
3/4" = 1'-0"



DETAIL 1
1" = 1'-0"

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN REVISION	BY	DATE
5. Liu	R. YAMANE	3-5-2020

DESIGN	BY	DATE
R. YAMANE	R. YAMANE	
DETAILS	BY	DATE
R. YAMANE	R. YAMANE	
QUANTITIES	BY	DATE
D. ROZFOROKA	D. ROZFOROKA	

DESIGNED BY	A. RICHARDSON
CHECKED BY	R. RICHARDSON
DESIGNED BY	R. RIVAS
CHECKED BY	R. RIVAS

PREPARED FOR THE	STATE OF CALIFORNIA
DEPARTMENT OF	TRANSPORTATION
PROJECT ENGINEER	G. KENNING
PROJECT NUMBER & PHASE	04160002241
CONTRACT NO.	04-1K2804
REVISION DATES	3/7-6/7/20
POST MILES	R28.7/4

SB 101 ON-RAMP PEDESTRIAN UC
TYPICAL SECTION

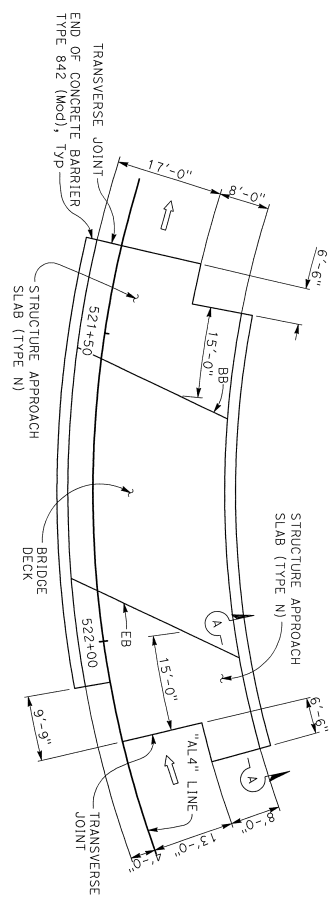
DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	288 345

March 6, 2020
REGISTERED STRUCTURAL ENGINEER DATE
PLANS APPROVAL DATE

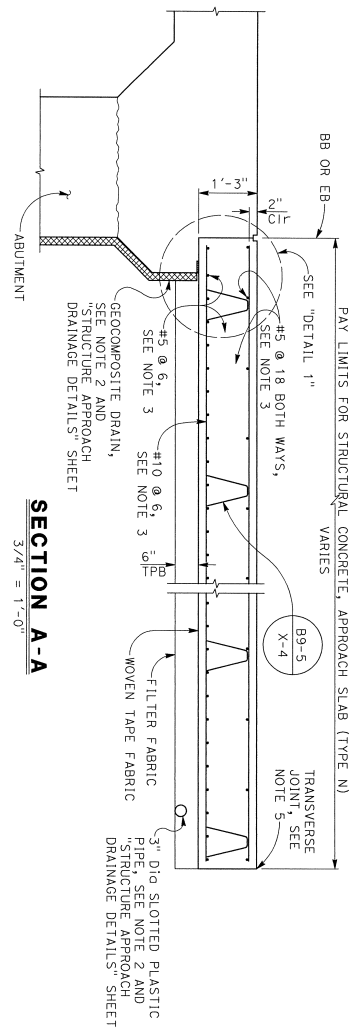
March 6, 2020
REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20
STATE OF CALIFORNIA

City of San Jose, DO1
200 E. SANTA CLARA ST., 8th FLOOR
SAN JOSE, CA 95131
BIGGS CARDOSA ASSOCIATES, INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

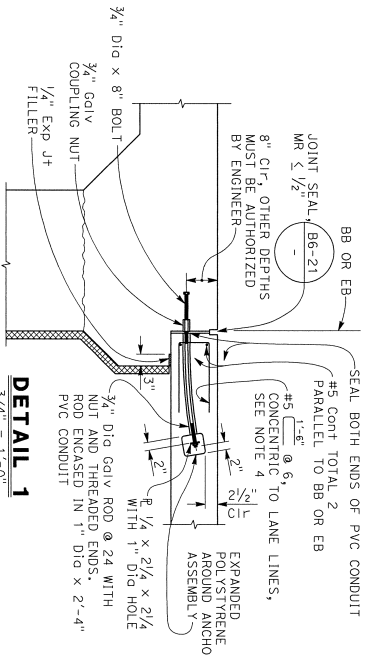
- NOTES:
- For details not shown, see (B11-81) and (B11-82).
 - Place transverse reinforcement and stirrups parallel to the Admitt and space along AL4 Line.
 - Place longitudinal reinforcement concentric with "AL4" Line.



PLAN
1" = 10'



SECTION A-A
3/4" = 1'-0"



DETAIL 1
3/4" = 1'-0"

- NOTES:
- For details not shown, see B9-1 and B9-5.
 - For structure approach drainage details, see B9-6.
 - Place longitudinal reinforcement concentric to "AL4" Line. Place transverse reinf parallel to $\text{\textcircled{E}}$ Abutment and space along "AL4" Line.
 - Adjust reinforcement to clear saw cut for seal joint.
 - Transverse joint must be a minimum of 5'-0" from an existing or constructed weakened plane joint in concrete or roadway pavement. Refer to Standard Plans P10 and P14.

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	290 345

Markus Williams 1/20/20
REGISTERED STRUCTURAL ENGINEER DATE

March 6, 2020
PLANS APPROVAL DATE
No. 2839
Exp. 12/31/20
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
No. 120720
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200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113
BIGGS CARROSA ASSOCIATES INC.
885 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

DESIGN OVERSIGHT	DESIGN	CHECKS	PREPARED FOR THE	UNIT:	PROJECT NUMBER & PHASE:	CONTRACT NO.:	DRAWING NUMBER	SHEET
S. Liu	R. YAMANE	A. RICHARDSON	STATE OF CALIFORNIA	G. KENNING	04160002241	04-1K2804	SB 101 ON-RAMP PEDESTRIAN UC	10
3-5-2020	R. YAMANE	R. RICHARDSON	DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER			STRUCTURE APPROACH SLAB TYPE N	12
DESIGN DETAIL SHEET (ENDISH) REV. 03/14/13	DESIGNERS	CHECKS						
	D. ROZTOROKA	H. RIVAS						



NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

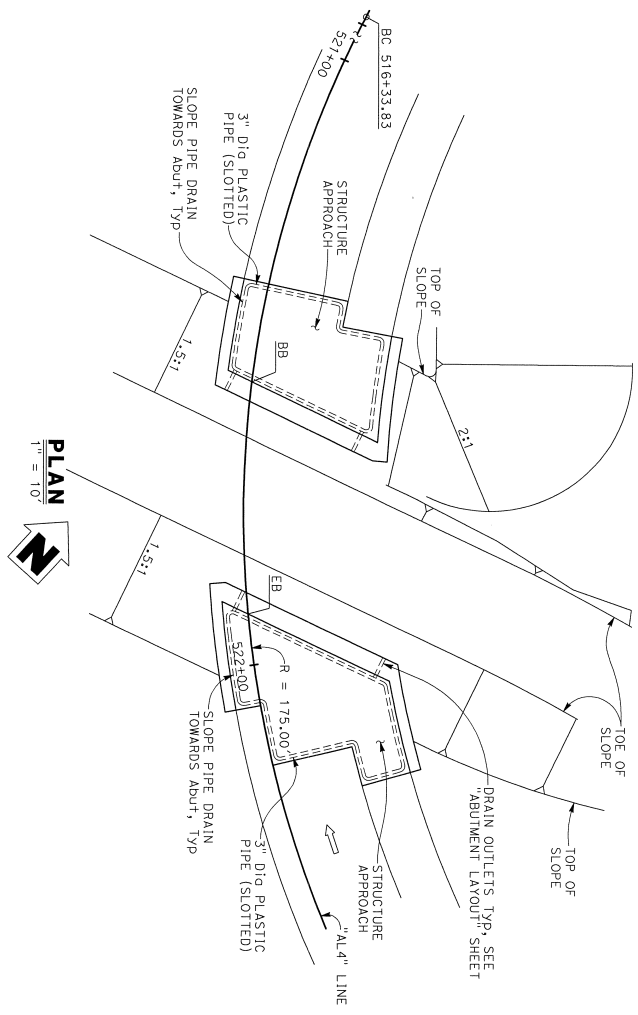
DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	291 345

March 6, 2020
 REGISTERED STRUCTURAL ENGINEER DATE
 PLANS APPROVAL DATE

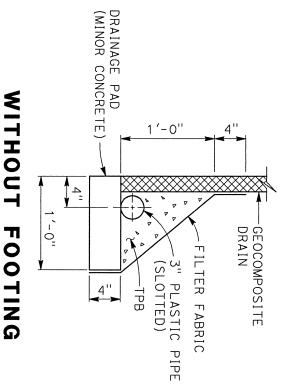
REGISTERED PROFESSIONAL ENGINEERS
 No. 2639
 No. 12217/20
 STATE OF CALIFORNIA

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 SAN JOSE, CA 95113
 BIGGS, CARDOSA ASSOCIATES INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126

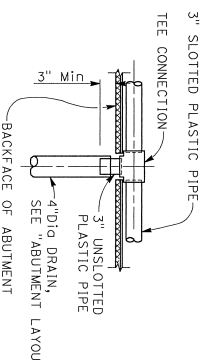
NOTES:
 1. For details not shown, see  and .



PLAN
 1" = 10'



WITHOUT FOOTING



TEE CONNECTION

DRAINAGE DETAILS
 1 1/2" = 1'-0"

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT	S. Liu
DATE	3-5-2020

DESIGN	BY R. YAMANE	CHECKED A. RICHARDSON
DETAILS	BY R. YAMANE	CHECKED R. RICHARDSON
QUANTITIES	BY D. ROZPORKA	CHECKED R. RIVAS

PREPARED FOR THE
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

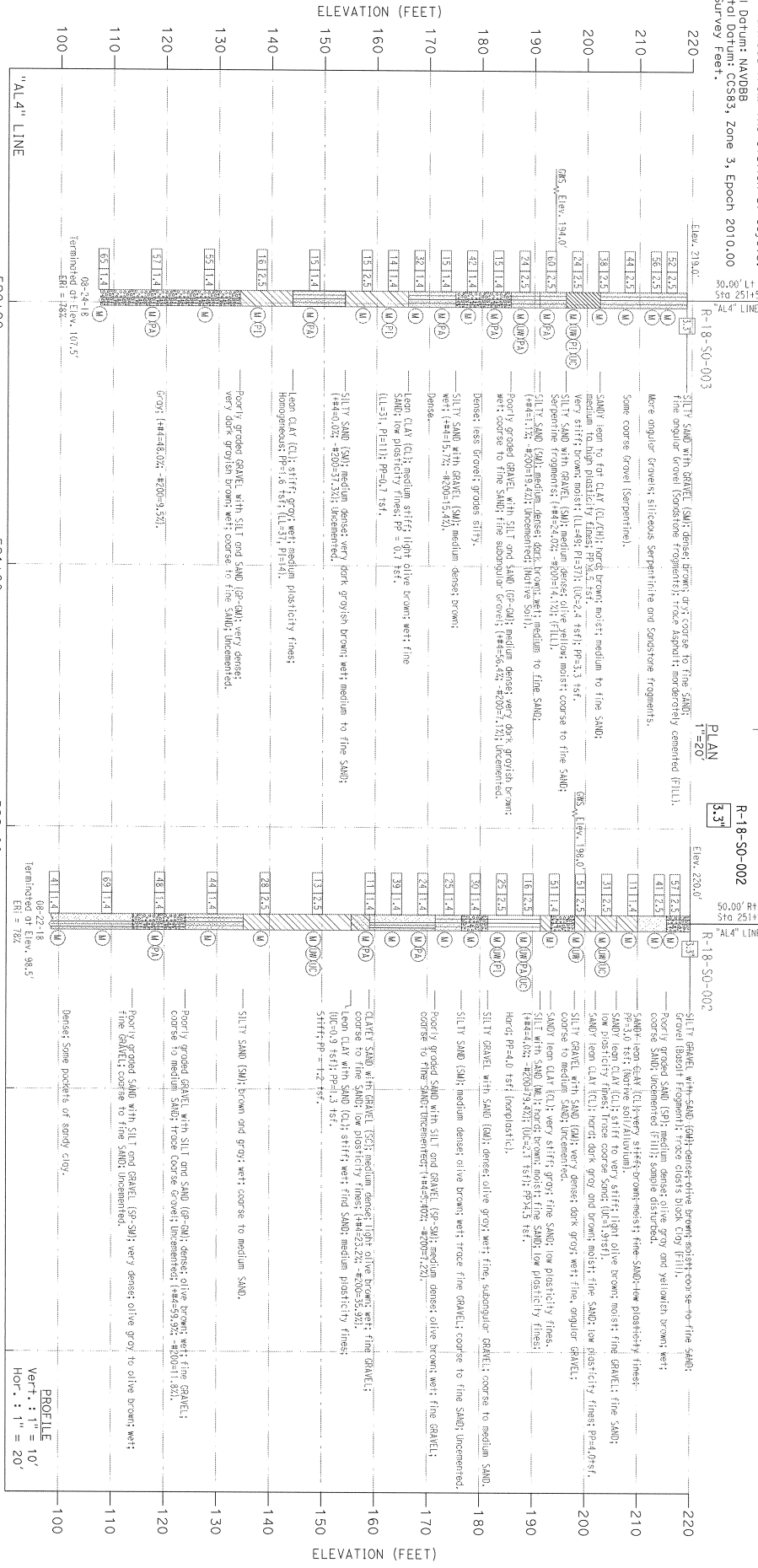
PROJECT ENGINEER	G. KENNING
PROJECT NUMBER & PHASE	04-1K2804

ENGINEER NO.	37-675K
POST MILES	R28.4/4

DESIGNED BY	DATE	REVISION DATE	SHEET	OF
			11	12

NOTES:
 Standard Penetration Test Spherometer: I.D. = 1.41",
 O.D. = 2", Modified Collimator Spherometer: I.D. = 2.5",
 O.D. = 3", Hammer Assembly: A 140 lb hammer with
 a 30" drop (Automatic Hammer).
 This LOTB sheet was prepared in accordance with
 the California Soil & Rock Logging, Classification,
 and Presentation Manual (2010)
 See California 2015 Standard Plans A10F, A10G and
 A10H for Soil and Rock Legend.
 All dimensions are in feet unless otherwise shown
BENCH MARK:
 NGS 00453 (HS 2187)
 4.7 miles northwest along the southern Pacific
 Company Railroad from the station of Covote.
 Vertical Datum: NAVD88
 Horizontal Datum: CGCS83, Zone 3, Epoch 2010.00
 In US Survey Feet.

PLAN
 1" = 20'
 33'



BOREHOLE LOCATION TABLE

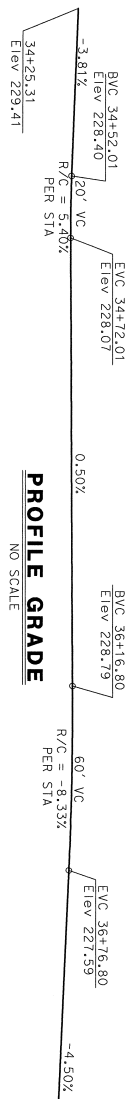
Borehole ID	Alignment Name	Station and Offset
R-18-SO-001	"A,4" Line	251+90 50' R+
R-18-SO-002	"A,4" Line	251+60 30' L+

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

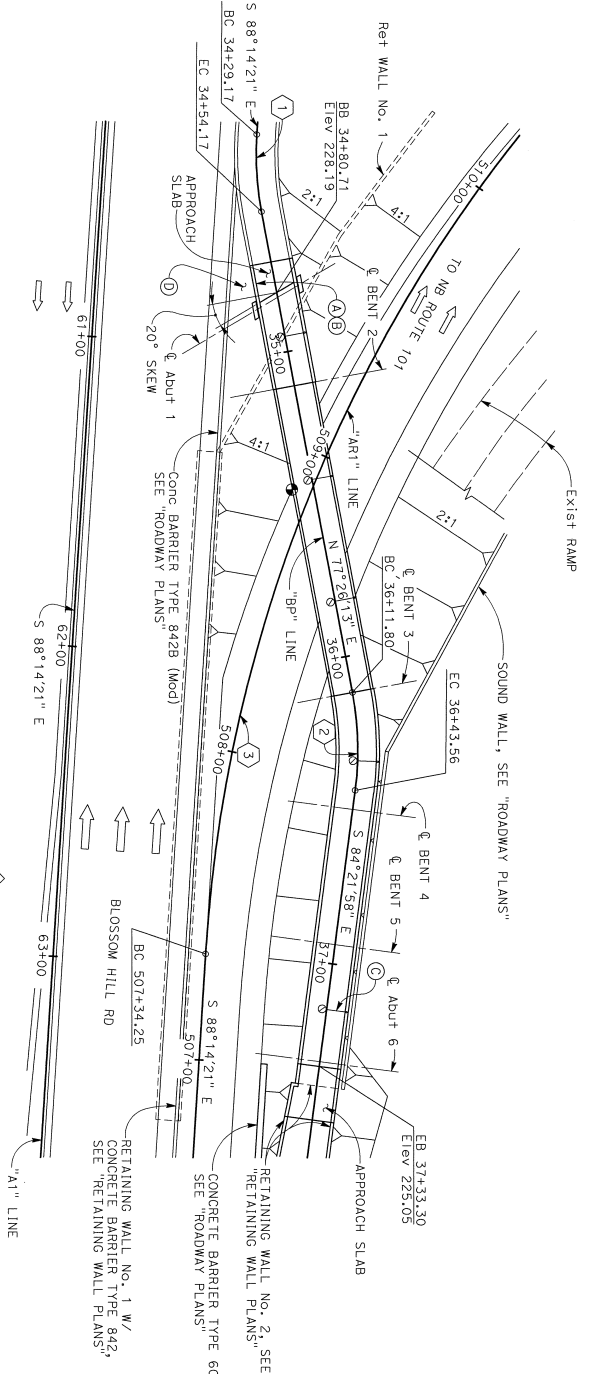
SB101 ON-RAMP PEDESTRIAN UC LOG OF TEST BORINGS 1 OF 1

DATE: 10-15-19
 REGISTERED PROFESSIONAL ENGINEER: CAR PARRIN
 No. 123179
 CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95113
 PARKH CONSULTANTS, INC.
 2360 OLIVE DRIVE, SUITE A
 SAN JOSE, CA 95131

DESIGN ORIGINATOR: **S. Liu**
 DESIGN DATE: **3-5-2020**
 CHECKED BY: **ALISTON LAM**
 DRAWN BY: **KIM QUIYANG**
 FIELD INVESTIGATION BY: **L.S. BHANOO**
 DATE: **AUGUST 2018 TO SEPTEMBER 2018**
 PROJECT NUMBER & PHASE: **04160002241**
 CONTRACT NO.: **04-182804**
 SHEET: **12** OF **12**



DEVELOPED ELEVATION
1" = 20'



PLAN
1" = 20'

NOTE:
THE CONTRACTOR MUST VERIFY ALL
THE CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

Revision: *Shu-Shang Liu*
3-5-2020

DESIGN OVERSIGHT	DESIGN	DESIGNED	DESIGNED	DESIGNED	DESIGNED
BY: G. TOLAN	BY: G. TOLAN	BY: P. GONGDI	BY: P. GONGDI	BY: G. KENNING	BY: G. KENNING
BY: A. VASQUEZ	BY: A. VASQUEZ	BY: F. RAMIREZ	BY: F. RAMIREZ	BY: G. KENNING	BY: G. KENNING
BY: A. VASQUEZ	BY: A. VASQUEZ	BY: F. RAMIREZ	BY: F. RAMIREZ	BY: G. KENNING	BY: G. KENNING

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

NB 101 ON-RAMP POC
GENERAL PLAN No. 1

DATE PLOTTED => #DATE

DIST: COUNTY: ROUTE: POST MILES: SHEET TOTAL: 04 SCI 101 R28.4/R28.9 293 345

REGISTERED STRUCTURAL ENGINEER DATE: *March 6, 2020*

CITY OF SAN JOSE, DOJ
200 E. SANTA CLARA ST., 4TH FLOOR
SAN JOSE, CA 95113

BLIGGS CARROSA ASSOCIATES, INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

REGISTERED PROFESSIONAL ENGINEER
No. 2639
No. 12/21/20

March 6, 2020

This State of California or its officers or agents shall not be responsible for the accuracy or completeness of a record or plan drawn, prepared, or used in connection with the project.

- NOTES:
- (A) Point "BRIDGE NO. 37-0616"
 - (B) PAINT "NB 101 ON-RAMP POC"
 - (C) Electroliner, see "Roadway Plans" & "SCHEDULE OF ELECTROLINER LOCATIONS"
 - (D) Slope Paving, see "Roadway Plans"
 - (E) Isolation Casting

LEGEND:

- Indicates Point of Minimum Vertical Clearance
- Indicates Traffic Direction

CURVE	R	Δ	T	L
(1)	100.00'	14° 19' 26"	12.57'	25.00'
(2)	100.00'	18° 11' 49"	16.01'	31.76'
(3)	475.00'	40° 39' 02"	175.95'	337.01'

SCHEDULE OF ELECTROLINER LOCATIONS
"Bp" LINE 34+95.00
"Bp" LINE 35+41.50
"Bp" LINE 35+81.50
"Bp" LINE 36+34.00
"Bp" LINE 37+14.80

USERNAME => #USER

DATE PLOTTED => #DATE

TIME PLOTTED => #TIME

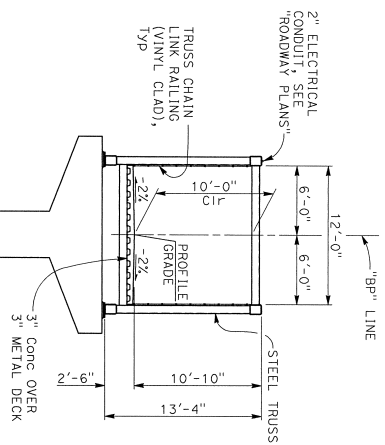
2016309 (2016309051_15)

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	294 345

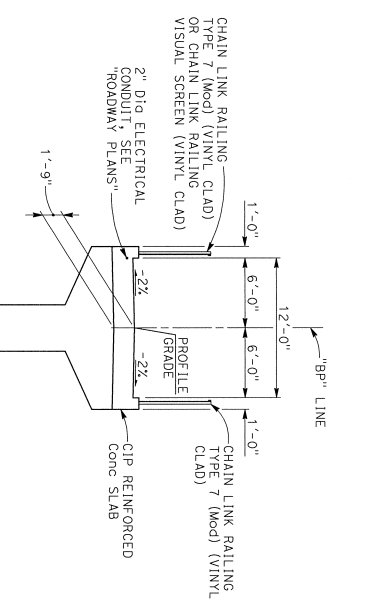
Markus Williams 1/20/20
REGISTERED STRUCTURAL ENGINEER DATE
March 8, 2020
PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of assumed details of this plan sheet.
CITY OF SAN JOSE, DOI
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113
BIGGS CARDOSA ASSOCIATES, INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95128



NOTE:
For details and Legend, see "GENERAL PLAN No. 1" sheet.



NOTE:
Bent 3 shown,
Bent 2 similar.
STA 35+10.71 TO 36+11.80
TYPICAL SECTION
3/16" = 1'-0"



NOTE:
Bent 2 shown,
Bent 3 similar.
STA 34+80.71 TO 35+10.71 AND
STA 36+11.80 TO 37+35.80
TYPICAL SECTION
3/16" = 1'-0"

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	30	CY
STRUCTURE BACKFILL (BRIDGE)	15	CY
36" CAST-IN-DRILLED-HOLE CONCRETE PILING	47	LF
72" CAST-IN-DRILLED-HOLE CONCRETE PILING	407	LF
STRUCTURAL CONCRETE, BRIDGE	95	CY
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	175	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	6	CY
JOINT SEAL (MR 1")	30	LF
BAR REINFORCING STEEL (BRIDGE)	158600	LB
STRUCTURAL STEEL (BRIDGE)	59000	LB
ERECT STRUCTURAL STEEL (BRIDGE)	1200	SF
METAL DECKING	LUMP	SUM
CLEAN AND PAINT STRUCTURAL STEEL	1055	LB
ISOLATION CASING	1740	LB
MISCELLANEOUS METAL (BRIDGE)	279	LF
CHAIN LINK RAILING (TYPE 7 MODIFIED) (VINYL CLAD)	200	LF
TRUSS CHAIN LINK RAILING (VINYL CLAD)	200	LF
CHAIN LINK RAILING VISUAL SCREEN (VINYL CLAD)	59	LF

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

DESIGN INVESTIGATOR	S. Liu
DATE	3-5-2022

DESIGN	BY G. TOLAN	CHECKED	P. CONGIDI
DETAILS	BY G. TOLAN	CHECKED	G. CONGIDI
QUANTITIES	BY A. VASQUEZ	CHECKED	F. KLAMOFFRAD

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

UNIT:	G. KENNING
PROJECT NUMBER & PHASE:	04-1K2804

BRIDGE NO.	37-0676
POST MILES	R28.451
CONTRACT NO.:	04-1K2804
GENERAL PRINTING NOTES	2
REVISION DATES	31

GENERAL NOTES

LOAD & RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD Bridge Design Specifications, 6th Edition and California Amendments, Preface dated Jan. 2014, supplemented by LRFD Guide Specifications for the Design of Pedestrian Bridges dated Dec. 2009 with 2015 Interim Revisions.

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC) Version 1.7 dated April 2013, supplemented by the Caltrans Seismic Design Specifications for Steel Bridges, Second Edition.

DEAD LOAD: Self weight

LIVE LOAD: 90 psf pedestrian load and H10 maintenance vehicle

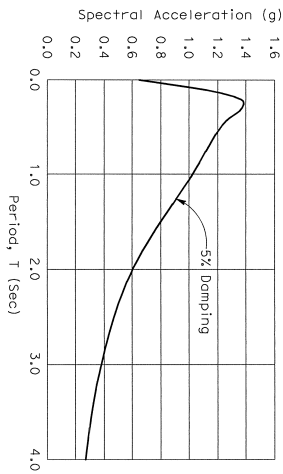
WIND LOAD: 50 psf Horizontal at steel truss
20 psf Vertical at steel truss
32 psf Horizontal at visual screen

CONCRETE: $f'_c = 60$ ksi
 $f'_c = 3.6$ ksi (STRENGTH AND TYPE LIMITS diagram)
 $n = 8$

STRUCTURAL STEEL: Truss Connection Plates: $F_y = 50$ ksi, ASTM A709, Grade 50
Steel Tubing Truss: $F_y = 50$ ksi, ASTM A1085
Chain Link Railing: $F_y = 46$ ksi, ASTM A500
Stud Connectors: ASTM A108
Bolts: ASTM A307
Anchor Bolts: ASTM F1554, Grade 36
Anchor Rods: ASTM F1554, Grade 36
HS Bolts: ASTM F3125 A990, Type 1
HS Anchor Rods: ASTM F1554, Grade 55
Nuts: ASTM A563DH
Washers: ASTM F436, Type 1
Metal Deck: ASTM A653, Designation SS Grade 50 through 80
Isolation Coating: AASHTO M36 AASHTO M216

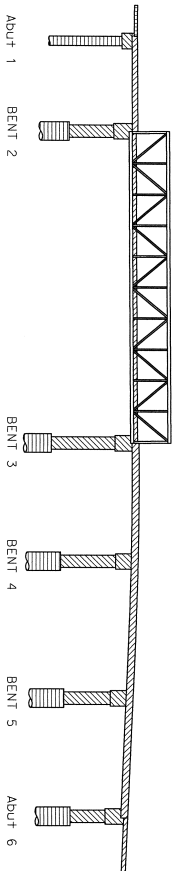
SEISMIC LOAD: ARS Curve by Caltrans Online Probabilistic for $V_{50} = 220$ m/s
Moment Magnitude = 6.9
Peak Ground Acceleration = 0.628g
with the following modifications:

- No change of S_a for structural periods ≤ 0.5 seconds
- 20% increase of S_a for structural periods ≥ 1 second
- Linear interpolation for structural periods between 0.5 and 1 second.



ARS DESIGN CURVE

NO SCALE



- STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) ($f'_c = 3.6$ ksi at 28 days)
- STRUCTURAL CONCRETE, BRIDGE ($f'_c = 3.6$ ksi at 28 days)
- CIDH PILE CONCRETE ($f'_c = 3.6$ ksi at 28 days)
- STRUCTURAL CONCRETE, APPROACH SLAB ($f'_c = 3.6$ ksi at 28 days)

CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

NOTE: THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

S. Liu

3-5-2020

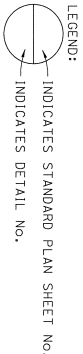
DESIGN DETAIL SHEET (ENGLISH) REV. 02/14/13

INDEX TO BRIDGE PLANS

SHEET	TITLE
1	GENERAL PLAN No. 1
2	INDEX TO PLANS
3	DECK CONTOURS
4	FOUNDATION PLAN
5	CIDH PILE DETAILS No. 1
6	CIDH PILE DETAILS No. 2
7	ABUTMENT 1 & 6 LAYOUT
8	ABUTMENT DETAILS No. 1
9	ABUTMENT DETAILS No. 2
10	BENT DETAILS
11	TYPICAL SECTION
12	SLAB REINFORCEMENT PLAN No. 1
13	SLAB REINFORCEMENT PLAN No. 2
14	TRUSS TYPICAL SECTION
15	TRUSS ELEVATION
16	TRUSS FRAMING PLANS
17	TRUSS DETAILS No. 1
18	TRUSS DETAILS No. 2
19	TRUSS DETAILS No. 3
20	TRUSS DETAILS No. 4
21	TRUSS DETAILS No. 5
22	TRUSS DETAILS No. 6
23	STRUCTURE APPROACH DETAILS
24	STRUCTURE APPROACH DETAILS
25	CHAIN LINK RAILING TYPE 1 (MOD) (VINYL CLAD) DETAILS
26	LOG OF TEST BORINGS 1 OF 2
27	LOG OF TEST BORINGS 2 OF 2
28	LOG OF TEST BORINGS 1 OF 2
29	LOG OF TEST BORINGS 2 OF 2
30	LOG OF TEST BORINGS 1 OF 2
31	LOG OF TEST BORINGS 2 OF 2

2018 STANDARD PLANS

SECTION	TITLE
A32	ABBREVIATIONS (SHEET 1 OF 3)
A33	ABBREVIATIONS (SHEET 2 OF 3)
A34	ABBREVIATIONS (SHEET 3 OF 3)
A35	ABBREVIATIONS (SHEET 4 OF 3)
A36	ABBREVIATIONS (SHEET 5 OF 3)
A37	ABBREVIATIONS (SHEET 6 OF 3)
A38	ABBREVIATIONS (SHEET 7 OF 3)
A39	ABBREVIATIONS (SHEET 8 OF 3)
A40	ABBREVIATIONS (SHEET 9 OF 3)
A41	ABBREVIATIONS (SHEET 10 OF 3)
A42	ABBREVIATIONS (SHEET 11 OF 3)
A43	ABBREVIATIONS (SHEET 12 OF 3)
A44	ABBREVIATIONS (SHEET 13 OF 3)
A45	ABBREVIATIONS (SHEET 14 OF 3)
A46	ABBREVIATIONS (SHEET 15 OF 3)
A47	ABBREVIATIONS (SHEET 16 OF 3)
A48	ABBREVIATIONS (SHEET 17 OF 3)
A49	ABBREVIATIONS (SHEET 18 OF 3)
A50	ABBREVIATIONS (SHEET 19 OF 3)
A51	ABBREVIATIONS (SHEET 20 OF 3)
A52	ABBREVIATIONS (SHEET 21 OF 3)
A53	ABBREVIATIONS (SHEET 22 OF 3)
A54	ABBREVIATIONS (SHEET 23 OF 3)
A55	ABBREVIATIONS (SHEET 24 OF 3)
A56	ABBREVIATIONS (SHEET 25 OF 3)
A57	ABBREVIATIONS (SHEET 26 OF 3)
A58	ABBREVIATIONS (SHEET 27 OF 3)
A59	ABBREVIATIONS (SHEET 28 OF 3)
A60	ABBREVIATIONS (SHEET 29 OF 3)
A61	ABBREVIATIONS (SHEET 30 OF 3)
A62	ABBREVIATIONS (SHEET 31 OF 3)
A63	ABBREVIATIONS (SHEET 32 OF 3)
A64	ABBREVIATIONS (SHEET 33 OF 3)
A65	ABBREVIATIONS (SHEET 34 OF 3)
A66	ABBREVIATIONS (SHEET 35 OF 3)
A67	ABBREVIATIONS (SHEET 36 OF 3)
A68	ABBREVIATIONS (SHEET 37 OF 3)
A69	ABBREVIATIONS (SHEET 38 OF 3)
A70	ABBREVIATIONS (SHEET 39 OF 3)
A71	ABBREVIATIONS (SHEET 40 OF 3)
A72	ABBREVIATIONS (SHEET 41 OF 3)
A73	ABBREVIATIONS (SHEET 42 OF 3)
A74	ABBREVIATIONS (SHEET 43 OF 3)
A75	ABBREVIATIONS (SHEET 44 OF 3)
A76	ABBREVIATIONS (SHEET 45 OF 3)
A77	ABBREVIATIONS (SHEET 46 OF 3)
A78	ABBREVIATIONS (SHEET 47 OF 3)
A79	ABBREVIATIONS (SHEET 48 OF 3)
A80	ABBREVIATIONS (SHEET 49 OF 3)
A81	ABBREVIATIONS (SHEET 50 OF 3)
A82	ABBREVIATIONS (SHEET 51 OF 3)
A83	ABBREVIATIONS (SHEET 52 OF 3)
A84	ABBREVIATIONS (SHEET 53 OF 3)
A85	ABBREVIATIONS (SHEET 54 OF 3)
A86	ABBREVIATIONS (SHEET 55 OF 3)
A87	ABBREVIATIONS (SHEET 56 OF 3)
A88	ABBREVIATIONS (SHEET 57 OF 3)
A89	ABBREVIATIONS (SHEET 58 OF 3)
A90	ABBREVIATIONS (SHEET 59 OF 3)
A91	ABBREVIATIONS (SHEET 60 OF 3)
A92	ABBREVIATIONS (SHEET 61 OF 3)
A93	ABBREVIATIONS (SHEET 62 OF 3)
A94	ABBREVIATIONS (SHEET 63 OF 3)
A95	ABBREVIATIONS (SHEET 64 OF 3)
A96	ABBREVIATIONS (SHEET 65 OF 3)
A97	ABBREVIATIONS (SHEET 66 OF 3)
A98	ABBREVIATIONS (SHEET 67 OF 3)
A99	ABBREVIATIONS (SHEET 68 OF 3)
A100	ABBREVIATIONS (SHEET 69 OF 3)
A101	ABBREVIATIONS (SHEET 70 OF 3)
A102	ABBREVIATIONS (SHEET 71 OF 3)
A103	ABBREVIATIONS (SHEET 72 OF 3)
A104	ABBREVIATIONS (SHEET 73 OF 3)
A105	ABBREVIATIONS (SHEET 74 OF 3)
A106	ABBREVIATIONS (SHEET 75 OF 3)
A107	ABBREVIATIONS (SHEET 76 OF 3)
A108	ABBREVIATIONS (SHEET 77 OF 3)
A109	ABBREVIATIONS (SHEET 78 OF 3)
A110	ABBREVIATIONS (SHEET 79 OF 3)
A111	ABBREVIATIONS (SHEET 80 OF 3)
A112	ABBREVIATIONS (SHEET 81 OF 3)
A113	ABBREVIATIONS (SHEET 82 OF 3)
A114	ABBREVIATIONS (SHEET 83 OF 3)
A115	ABBREVIATIONS (SHEET 84 OF 3)
A116	ABBREVIATIONS (SHEET 85 OF 3)
A117	ABBREVIATIONS (SHEET 86 OF 3)
A118	ABBREVIATIONS (SHEET 87 OF 3)
A119	ABBREVIATIONS (SHEET 88 OF 3)
A120	ABBREVIATIONS (SHEET 89 OF 3)
A121	ABBREVIATIONS (SHEET 90 OF 3)
A122	ABBREVIATIONS (SHEET 91 OF 3)
A123	ABBREVIATIONS (SHEET 92 OF 3)
A124	ABBREVIATIONS (SHEET 93 OF 3)
A125	ABBREVIATIONS (SHEET 94 OF 3)
A126	ABBREVIATIONS (SHEET 95 OF 3)
A127	ABBREVIATIONS (SHEET 96 OF 3)
A128	ABBREVIATIONS (SHEET 97 OF 3)
A129	ABBREVIATIONS (SHEET 98 OF 3)
A130	ABBREVIATIONS (SHEET 99 OF 3)
A131	ABBREVIATIONS (SHEET 100 OF 3)



LEGEND:
— INDICATES STANDARD PLAN SHEET NO.
○ INDICATES DETAIL NO.

ABBREVIATIONS:
FCM FRACTURE CRITICAL MEMBER
WP WORK POINT

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DESIGN BY: G. TOLAN	CHECKED BY: P. CONGIDI	PROJECT NO.:	0000
DETAILS BY: G. TOLAN	CHECKED BY: F. KLANOFFRAD	CONTRACT NO.:	04-1K2804
QUANTITIES BY: A. VASQUEZ	CHECKED BY:	PROJECT NUMBER & PHASE:	0410002241

NB 101 ON-RAMP POC INDEX TO PLANS

DATE PLOTTED =>	#DATE	USER NAME =>	#USER
TIME PLOTTED =>	#TIME		

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20
CITY OF SAN JOSE, CA
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95131
BIGGS CARDOSA ASSOCIATES, INC.
665 THE ALAMEDA
SAN JOSE, CALIFORNIA 95128

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20
CITY OF SAN JOSE, CA
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95131
BIGGS CARDOSA ASSOCIATES, INC.
665 THE ALAMEDA
SAN JOSE, CALIFORNIA 95128

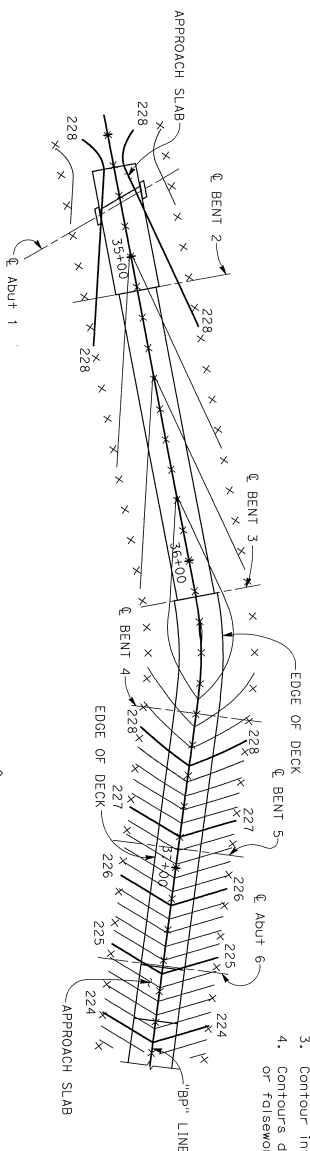
March 6, 2020
REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20
CITY OF SAN JOSE, CA
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95131
BIGGS CARDOSA ASSOCIATES, INC.
665 THE ALAMEDA
SAN JOSE, CALIFORNIA 95128

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	296 345

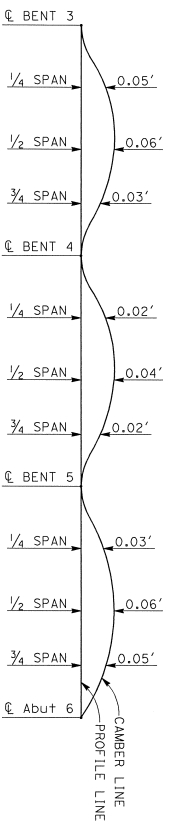
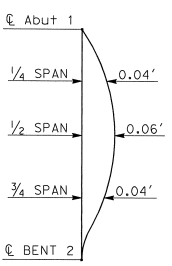
March 6, 2020
 REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 No. 12731/20
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL ENGINEER

March 6, 2020
 REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 No. 12731/20
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL ENGINEER

- NOTES:
- Contours indicate top of deck elevation.
 - X indicates 10 foot intervals measured along "Bp" Line.
 - Contour Interval = 0.2'
 - Contours do not include camber or falsework settlement.

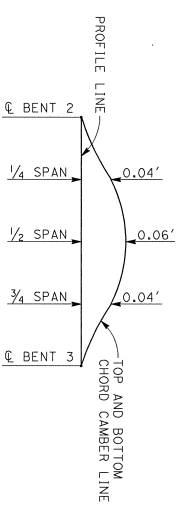


DECK CONTOURS
 1" = 20'



NOTE:
 Camber does not include allowance for falsework settlement

CAMBER DIAGRAM
 NO SCALE



STEEL TRUSS CAMBER DIAGRAM
 NO SCALE

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN: S. L. H.
 CHECKED: G. TOLAN
 DATE: 3-5-2020

DESIGN	BY	CHECKED
DETAILS	G. TOLAN	G. TOLAN
QUANTITIES	A. VASQUEZ	F. KLANOFFRAD

PREPARED FOR THE
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER: G. KENNING
 PROJECT NO.: 04-1K2804
 CONTRACT NO.: 04-1K2804

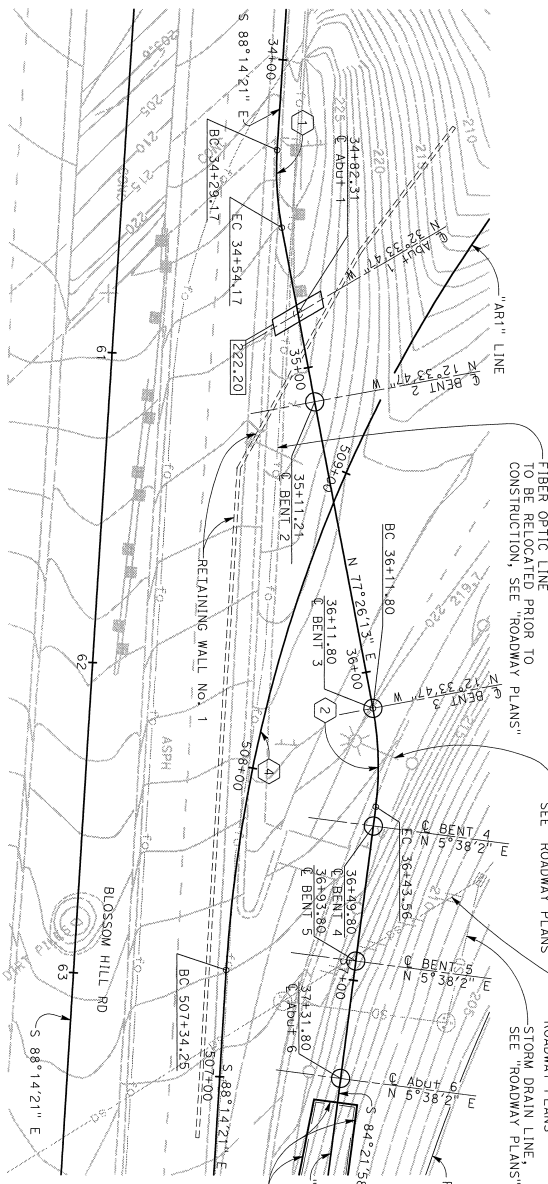
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

BENCH MARK AND DATUM		COORDINATES	ELEVATION	DESCRIPTION/LOCATION
MONUMENT	NORTHING	EASTING		
107	1,918,673.697	6,184,775.266	220.36	SET MAG NAIL & SHINER ± 70' EAST OF SILVER CREEK VALLEY RD OVERPASS.
118	1,919,879.851	6,183,487.924	197.17	SET MAG NAIL & SHINER AT 101 SOUTHBOUND SHOULDER.

PILE DATA TABLE

LOCATION	PILE TYPE	CUT-OFF Elev (ft)	NOMINAL RESISTANCE COMPRESSION TENSION	DESIGN TIP Elev (ft)	SPECIFIED TIP Elev (ft)
Abut 1	36" Dia CIDH	222.45	320	181.0(G), 205.0(G), 176.0(G)	176.0
BENT 2	72" Dia CIDH	204.70	590	135.5(G), 178.0(G), 136.0(G)	135.5
BENT 3	72" Dia CIDH	207.20	580	133.0(G), 177.0(G), 140.0(G)	133.0
BENT 4	72" Dia CIDH	211.20	570	130.5(G), 180.0(G), 138.0(G)	130.5
BENT 5	72" Dia CIDH	209.00	570	122.5(G), 174.0(G), 138.0(G)	122.5
Abut 6	72" Dia CIDH	207.00	320	124.5(G), 179.0(G), 127.0(G)	124.5

- NOTES:
- Design tip elevations for Abutments and Bents are controlled by:
 - (a) Compression, (c) Settlement, (d) Lateral load.
 - The specified tip elevation must not be raised.



FOUNDATION PLAN

1/20/20
PROFESSIONAL APPROVAL DATE

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

DESIGN OVERSIGHT	SCALE AS SHOWN	VERTICAL MAJOR	HORIZONTAL CROSS ZONE 3	DESIGN	"G. TOLAN	DATE	P. GOONCIDI
3-5-2020	PHOTOGRAPHED AS OF JULY 2016	ALIGNED TIES	BY RADMAN AERIAL	DETAILS	"G. TOLAN	DATE	P. GOONCIDI
FIELD CHECKED BY RADMAN AERIAL	CHECKED	BY RADMAN AERIAL	QUANTITIES	"A. VASQUEZ"	DATE	F. KINAWOTRAD	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER	G. KENNING
PROJECT NUMBER & PHASE: 04180002241	BRIDGE NO.	37-0676
CONTRACT NO.: 04-1K2804	POST AUCS	R28.61
DIREC& BRIDGE DESIGN	REVISION DATE	5/31
FOUNDATION PLAN	SHEET	5
	OF	31

LEGEND:

- Indicates Bottom of Footing Elevation
- Indicates Spot Elevation
- Indicates Pile

NOTE:
Verify utility locations with "ROADWAY PLANS"

DIST COUNTY ROUTE POST MILEAGE SHEET TOTALS
04 SCI 101 R28.4/R28.9 297 345

REGISTERED STRUCTURAL ENGINEER DATE

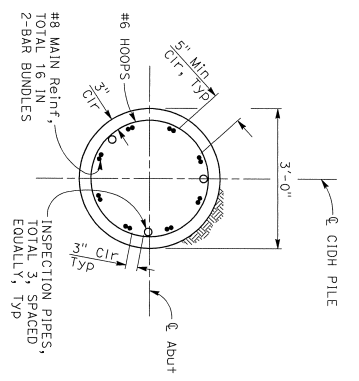
March 6, 2020 REGISTERED PROFESSIONAL ENGINEER
No. 2839 Exp. 12/31/20

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of drawings or other data shown.

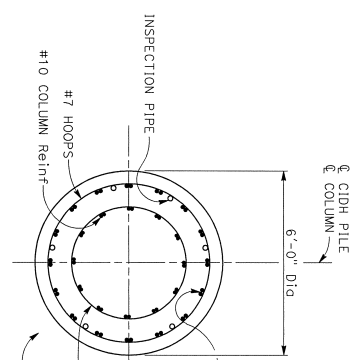
CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113

BIGGS CARDOSA ASSOCIATES INC.
888 THE ALAMEDA
SAN JOSE, CALIFORNIA 95138

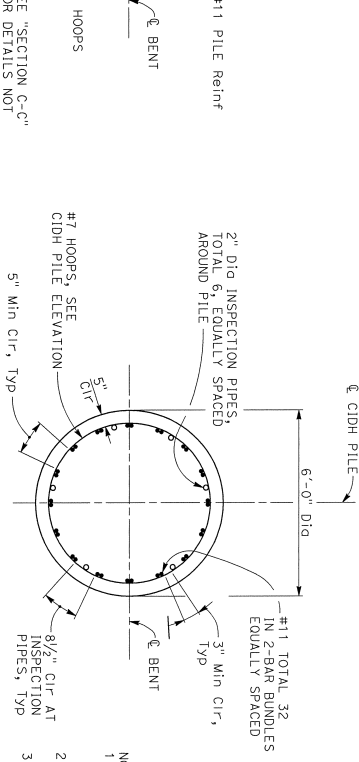
REGISTERED PROFESSIONAL ENGINEER
No. 2839 Exp. 12/31/20



SECTION A-A
3/4" = 1'-0"



SECTION B-B
1/2" = 1'-0"

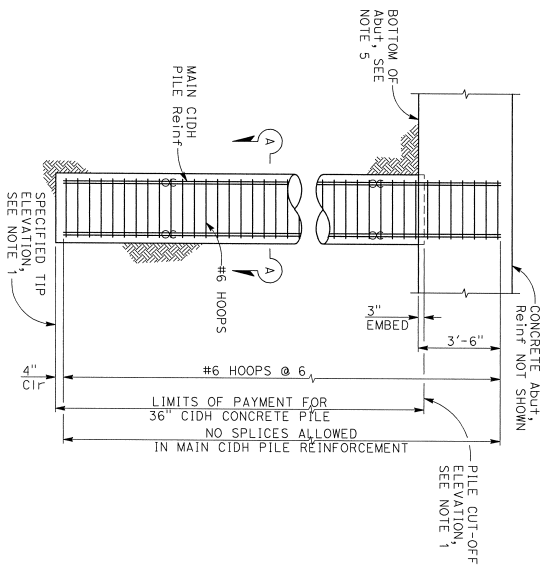


SECTION C-C
1/2" = 1'-0"

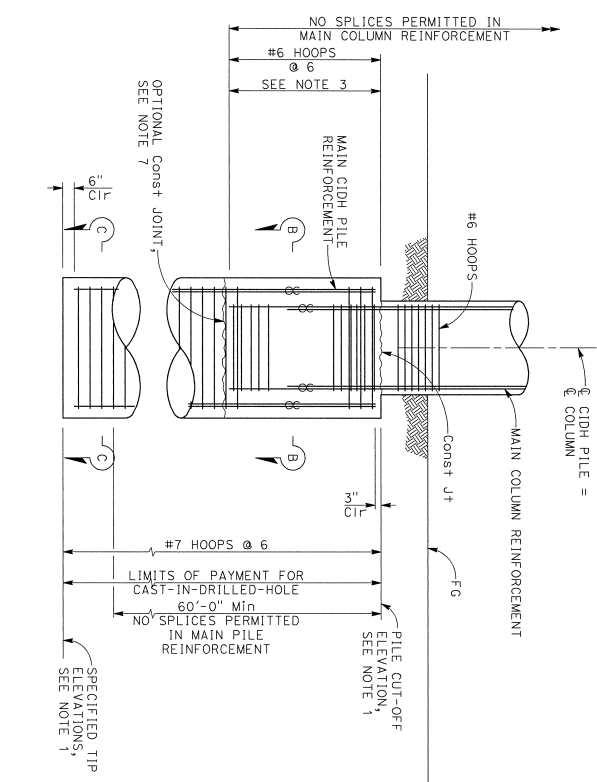
- NOTES:
1. For cut-off elevations and specified tie elevations, see "PILE DATA TABLE" on "FOUNDATION PLAN" sheet.
 2. All pile and column hoops must utilize ultimate butt splices.
 3. Main column reinf extension must be staggered 6' @ 3'-0" below the top of CIDH pile.
 4. Splices in main CIDH pile reinf for 12" inch diameter piles must be ultimate butt splice zone.
 5. For bottom of footing elevations, see "FOUNDATION PLAN" sheet.
 6. For isolation casing details at Abutment 6, see "CIDH PILE DETAILS No. 2" sheet.
 7. The construction joint may be eliminated under the pile concrete is not placed under slurry.

LEGEND:
 Indicates Bundled Bars

36" CIDH PILE ELEVATION
3/8" = 1'-0"



72" CIDH PILE ELEVATION
3/8" = 1'-0"



NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN REVISION
 S. Liu
 3-5-2020

DESIGN	BY	CHECKED
DETAILS	G. TOLAN	P. GONGIDI
QUANTITIES	G. TOLAN	G. GONGIDI
	A. VASQUEZ	F. KLANOFFRAD

DESIGNED BY: P. GONGIDI
 CHECKED BY: G. GONGIDI
 QUANTITIES BY: F. KLANOFFRAD

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER
 G. KENNING
 PROJECT NO.: R28.4/1
 CONTRACT NO.: 04-1K2804

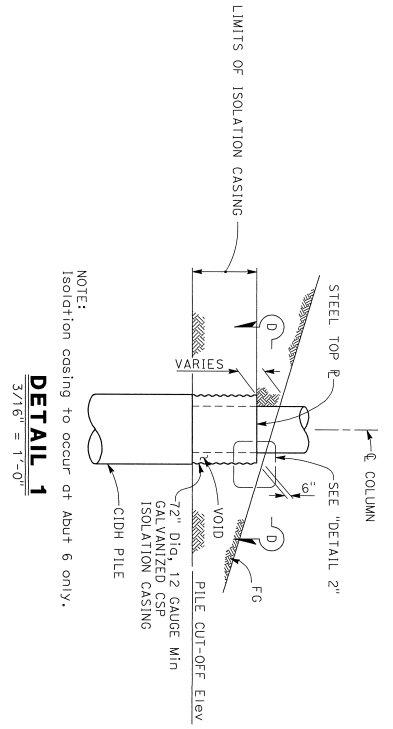
NB 101 ON-RAMP POC
CIDH PILE DETAILS No. 1

DIST: COUNTY ROUTE POST MILES SHEET TOTALS
 04 SCI 101 101 R28.4/R28.9 298 345

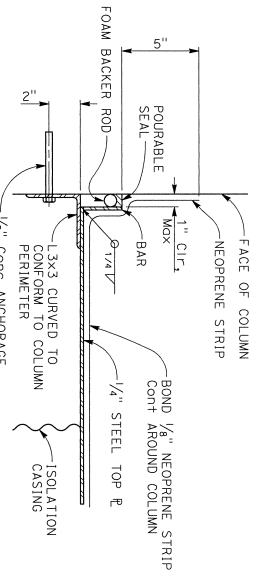
REGISTERED STRUCTURAL ENGINEER DATE 1/20/20
 March 6, 2020
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of as-built copies of this plan sheet.

CITY OF SAN JOSE DOI
 200 E. SANTA CLARA ST., 8TH FLOOR
 SAN JOSE, CA 95131
 BIGGS CARDOSA ASSOCIATES, INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126

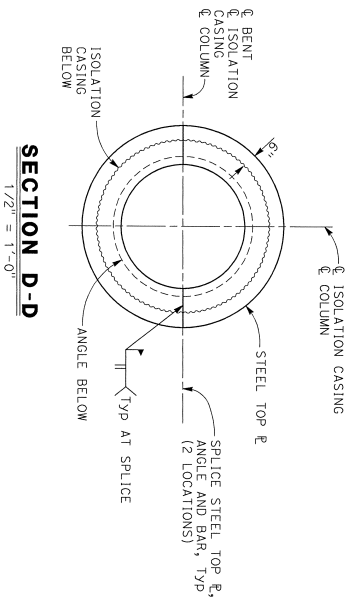
REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 No. 12/23/20
 REGISTERED PROFESSIONAL ENGINEER
 No. 12/23/20



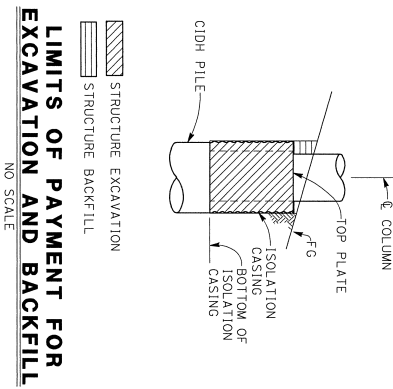
NOTE:
Isolation casing to occur at Abut 6 only.
DETAIL 1
3/16" = 1'-0"



NOTE:
All steel to be galvanized.
DETAIL 2
3" = 1'-0"



SECTION D-D
1/2" = 1'-0"



LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL
NO SCALE

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN QUESTION: **S. Liu**
DATE: **3-5-2020**

DESIGN	BY	CHECKED
DETAILS	G. TOLAN	P. CONGIDI
QUANTITIES	A. VASQUEZ	F. KLANOFFRAD

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER: **G. KENNING**
PROJECT NUMBER & PHASE: **041B0002241**
CONTRACT NO.: **04-1K2804**
SHEET NO.: **31** OF **31**

DIST: COUNTY ROUTE POST MILES TOTAL PROJECT SHEET NO. TOTAL SHEETS

04 SCI 101 R28.4/R28.9 299 345

March 8, 2020
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20
SITE OF CONSTRUCTION

March 8, 2020
REGISTERED PROFESSIONAL ENGINEER DATE

March 8, 2020
REGISTERED PROFESSIONAL ENGINEER DATE

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CITY OF SAN JOSE, DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113

BIGGS CARDOSA ASSOCIATES, INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

DIST	COUNTY	ROUTE	POST MILE	SHEET TOTAL
04	SCI	101	R28.4/R28.9	300 / 345

REGISTERED STRUCTURAL ENGINEER DATE 1/20/20

March 6, 2020

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

NO. 2639

EXPIRES 12/31/20

CITY OF SAN JOSE DOI

200 E. SANTA CLARA ST., 8TH FLOOR

SAN JOSE, CA 95131

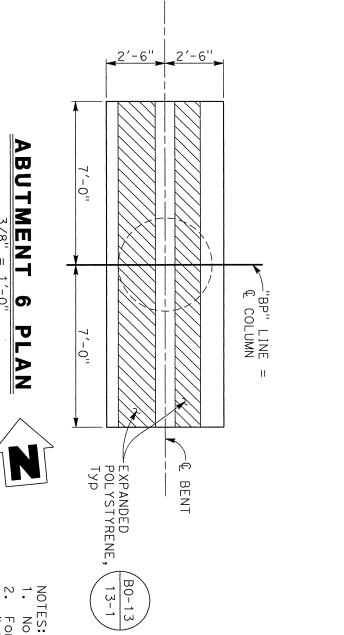
BIIGGS CARDOSA ASSOCIATES, INC.

865 THE ALAMEDA

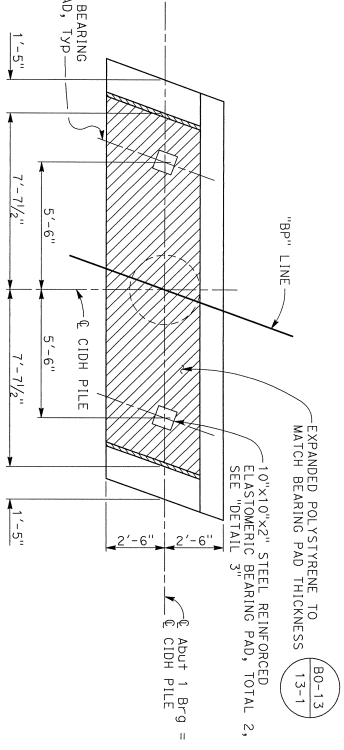
SAN JOSE, CALIFORNIA 95126

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

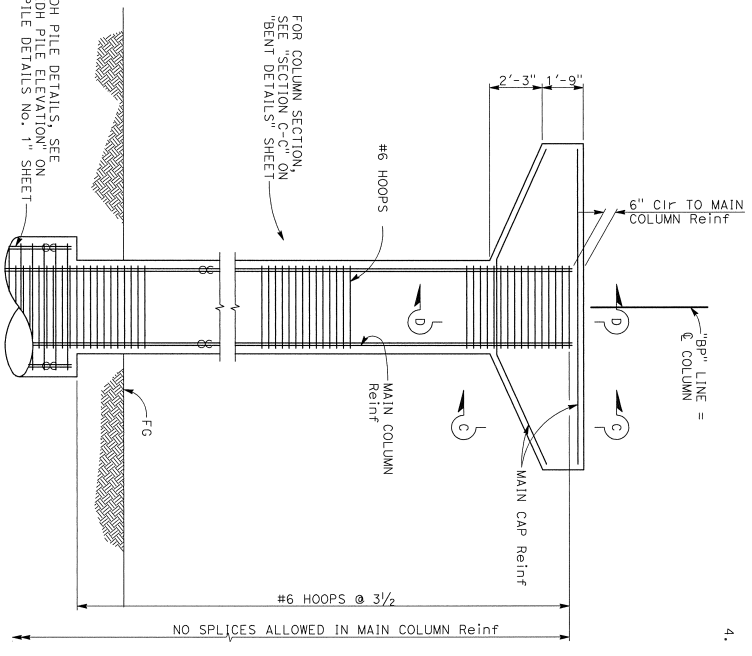
- NOTES:
1. No splices permitted in main cap reinforcement.
 2. For "SECTION A-A", "SECTION B-B", "SECTION C-C" and "SECTION D-D" see "ABUTMENT" DETAILS No. 1" sheet.
 3. For "SECTION E-E" and "DETAIL 3", see "ABUTMENT DETAILS No. 2" sheet.
 4. Column hoops shall utilize ultimate butt splices.



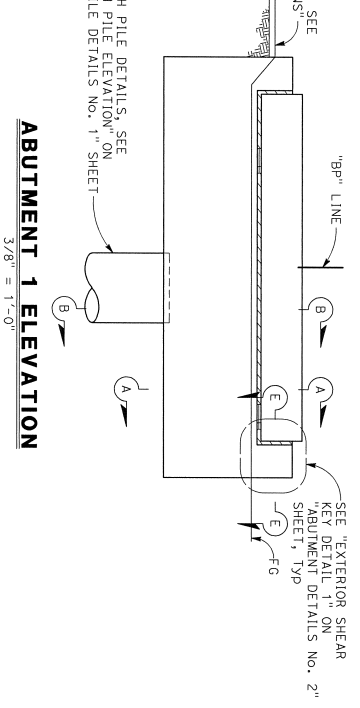
ABUTMENT 6 PLAN
3/8" = 1'-0"



ABUTMENT 1 PLAN
3/8" = 1'-0"



ABUTMENT 6 ELEVATION
3/8" = 1'-0"



ABUTMENT 1 ELEVATION
3/8" = 1'-0"

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

DESIGN PREPARED BY	S. Liu
DATE	3-5-2020

DESIGN	BY	DESIGNED	BY
DETAILS	G. TOLAN	P. GONGIDI	G. KENNING
QUANTITIES	A. VASQUEZ	F. KLANWERRAD	R. WILKES

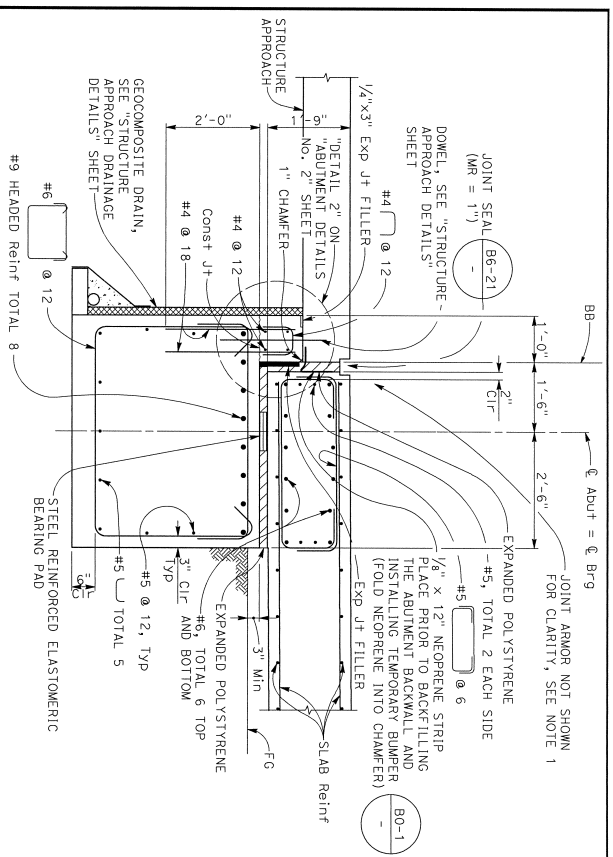
PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER	DATE
G. KENNING	3/7-06/76
PROJECT ENGINEER	DATE
R. WILKES	7/28/81

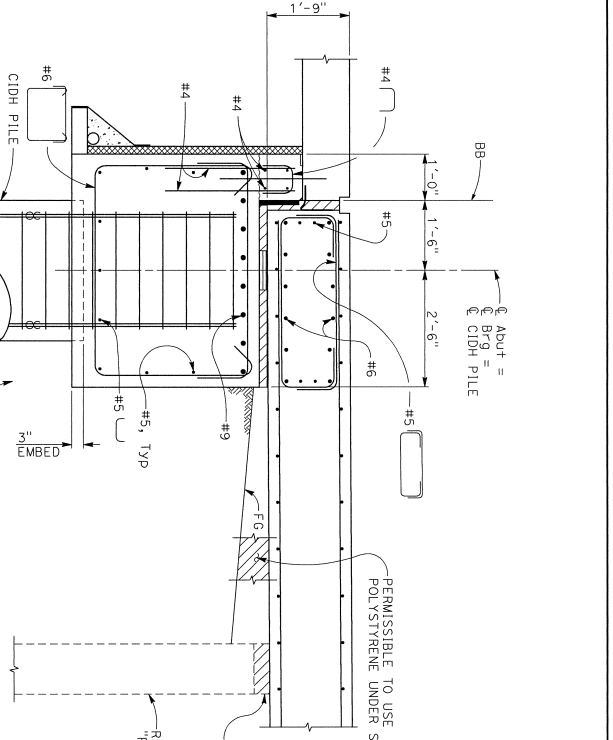
NB 101 ON-RAMP POC
ABUTMENT 1 & 6 LAYOUT

PROJ. NO.: 04-1K2804 CONTRACT NO.: 04-1K2804

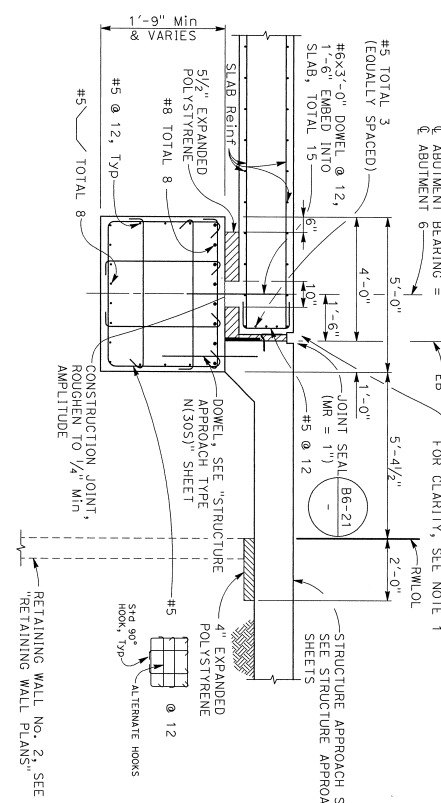
DATE PLOTTED => #DATE TIME PLOTTED => #TIME



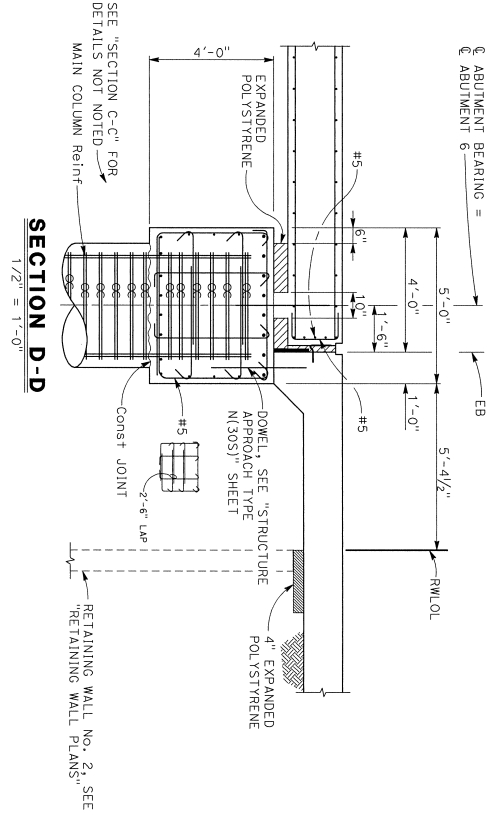
SECTION A-A
3/4" = 1'-0"



SECTION B-B
3/4" = 1'-0"



SECTION C-C
1/2" = 1'-0"



SECTION D-D
1/2" = 1'-0"

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT
S. Liu
3-5-2020

DESIGN
B' G. TOLAN
DETAILS
B' A. VASQUEZ

DESIGN
P. CONGIDI
CHECKED
G. CONGIDI

DESIGN
F. KLAMOFFRAD
CHECKED
F. KLAMOFFRAD

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

UNIT:
PROJECT NUMBER & PHASE: 04160002241

CONTRACT NO.: 04-1N2804
DESIGNER'S PRINTING SHEETS
DATE PLOTTED => #DATE

SECTION OVERSIGHT
SHEET 9 OF 31

DIST COUNTY ROUTE POST MILES SHEET TOTALS
04 SCI 101 R28.4/R28.9 301 343

March 8, 2020
REGISTERED STRUCTURAL ENGINEER DATE
PLANS APPROVAL DATE

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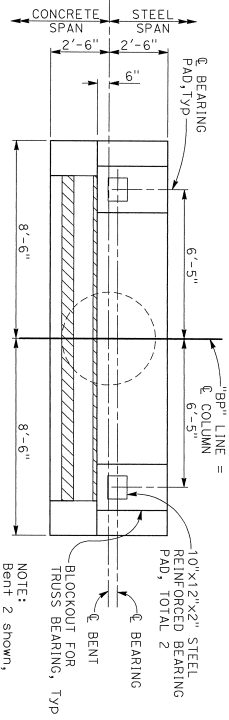
CITY OF SAN JOSE DOI
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95131

BIIGGS CARDOSA ASSOCIATES INC.
865 THE FLAMENCA
SAN JOSE, CALIFORNIA 95128

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20

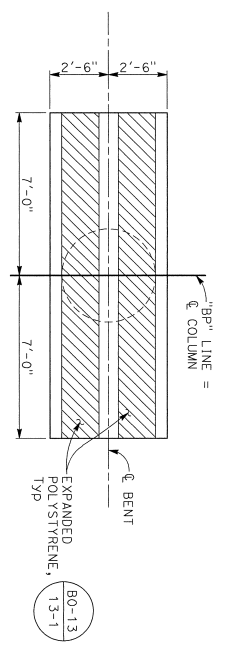
March 8, 2020
REGISTERED PROFESSIONAL ENGINEER
DATE

NOTE:
1. For Joint Armor Details, see "JOINT ARMOR FOR PEDESTRIAN WALKWAYS" sheet.



BENT 2 & 3 PLAN
3/8" = 1'-0"
"BP" LINE =
"BP" LINE =

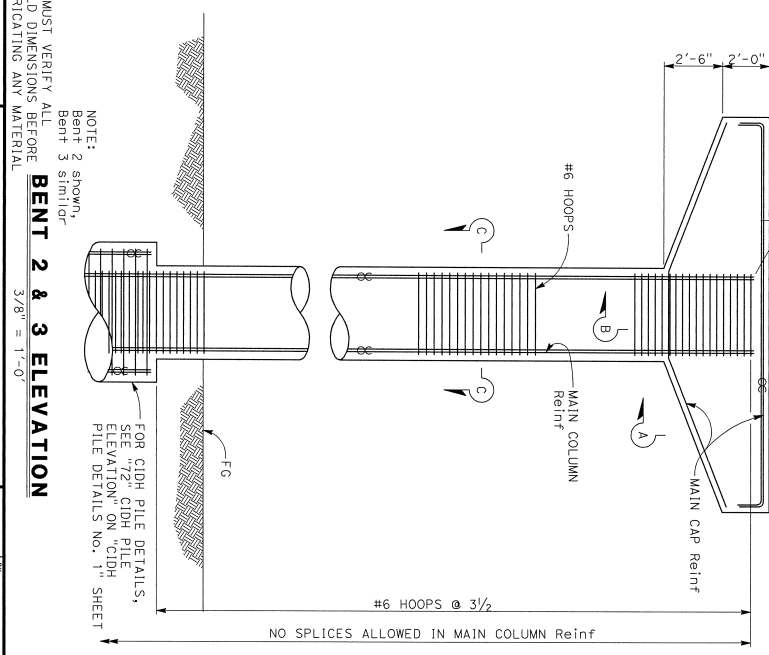
NOTE:
Bent 2 shown,
Bent 3 similar.



BENTS 4 & 5 PLAN
3/8" = 1'-0"
"BP" LINE =
"BP" LINE =

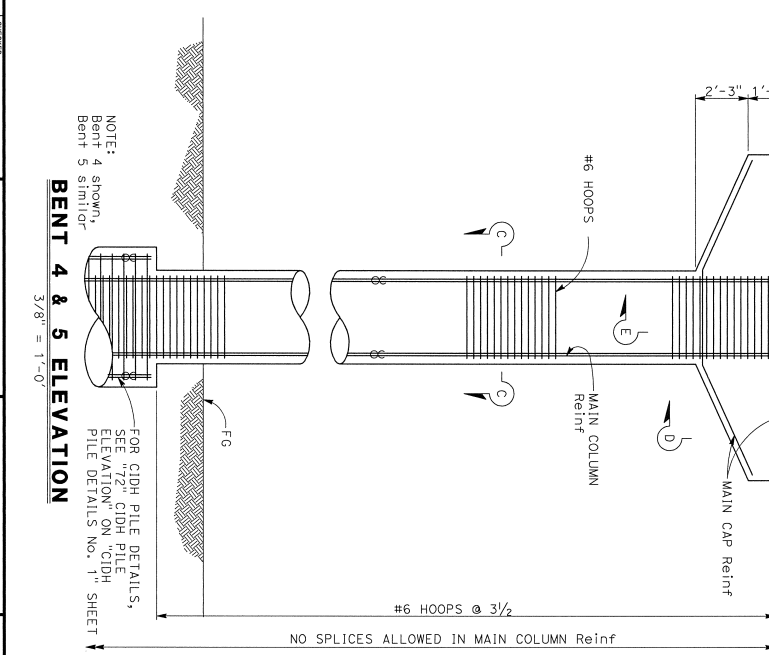
NOTE:
Bent 4 shown,
Bent 5 similar.

- NOTES:
1. No splices permitted in main cap reinforcement.
 2. For truss bearing details, see "TRUSS DETAILS No. 2" sheet.
 3. For "SECTION A-A", "SECTION B-B", "SECTION C-C", "SECTION D-D" and "SECTION E-E", see "BENT DETAILS" sheet.
 4. Column hoops shall utilize ultimate duct splices.



BENT 2 & 3 ELEVATION
3/8" = 1'-0"

NOTE:
Bent 2 shown,
Bent 3 similar.



BENT 4 & 5 ELEVATION
3/8" = 1'-0"

NOTE:
Bent 4 shown,
Bent 5 similar.

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTALS
04	SCI	101	R28.4/R28.9	303 345

March Williams 1/20/20
REGISTERED STRUCTURAL ENGINEER DATE

March 6, 2020
PLANS APPROVAL DATE

No. 2639
REGISTERED PROFESSIONAL ENGINEER
No. 12/23/20
EXPIRES

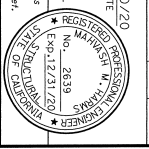
CITY OF SAN JOSE DOI
200 E. SANTA CLARA ST., 8th FLOOR
SAN JOSE, CA 95131

BIIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

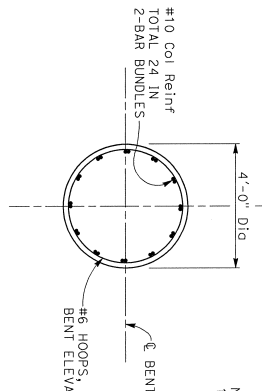
DESIGN OVERSIGHT	S. Liu	DESIGN	B. G. TOLAN	CHECKED	P. GONGIDI	PREPARED FOR THE	STATE OF CALIFORNIA	PROJECT NUMBER & PHASE	04-1X2804	DISTRICT	NB 101 ON-RAMP POC
DATE	3-5-2020	DETAILS	B. G. TOLAN	CHECKED	P. GONGIDI	DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION	CONTRACT NO.	04-1X2804	REVISION DATES	
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/13)		QUANTITIES	A. VASQUEZ	CHECKED	F. KLAMROFAD	PROJECT ENGINEER	PROJECT ENGINEER				

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTALS
04	SCI	101	R28.4/R28.9	304 345

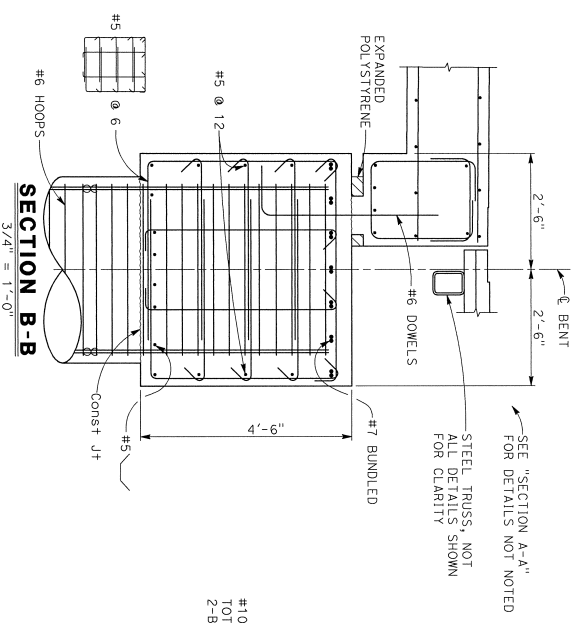
REGISTERED STRUCTURAL ENGINEER DATE 1/20/20
March 6, 2020
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.
 CITY OF SAN JOSE DOI
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95131
 BIGGS CARDOSA ASSOCIATES INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126



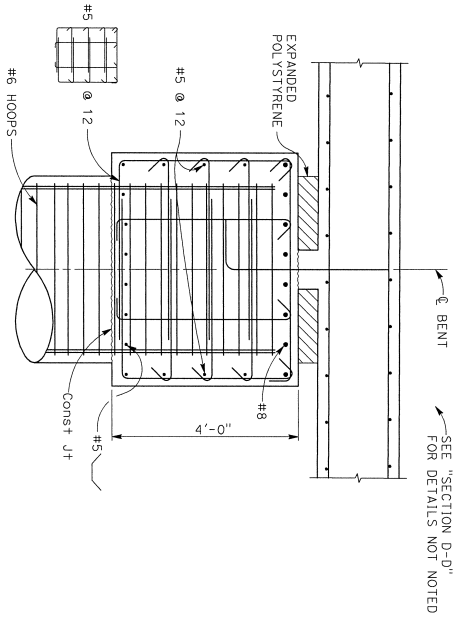
NOTE:
 1. For joint armor details, see "JOINT ARMOR FOR PEDESTRIAN WALKWAYS" sheet.



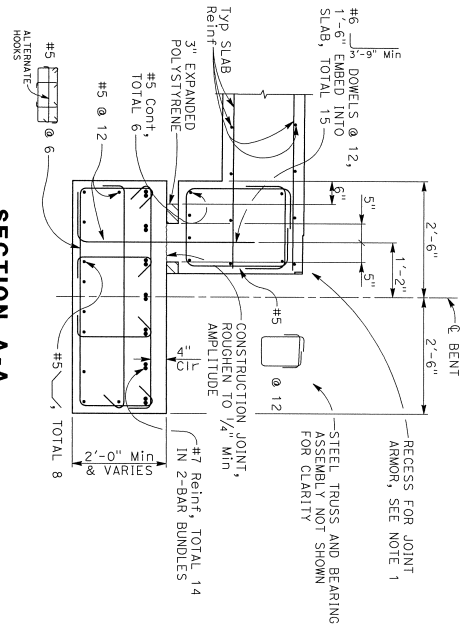
SECTION C-C
 1/2" = 1'-0"



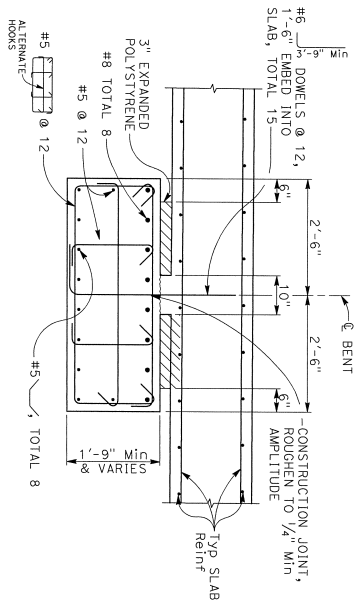
SECTION B-B
 3/4" = 1'-0"



SECTION E-E
 3/4" = 1'-0"



SECTION A-A
 3/4" = 1'-0"



SECTION D-D
 3/4" = 1'-0"

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN PREPARED BY
S. LVA
 3-5-2020

DESIGN CHECKED BY
 B. G. TOLAN
 B. A. VASQUEZ

DESIGN CHECKED BY
 P. CONGIDI
 F. KLANOFFRAD

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER
 G. KENNING
 37-0676
 TOSI WILES
 R28.45

NB 101 ON-RAMP POC
BENT DETAILS

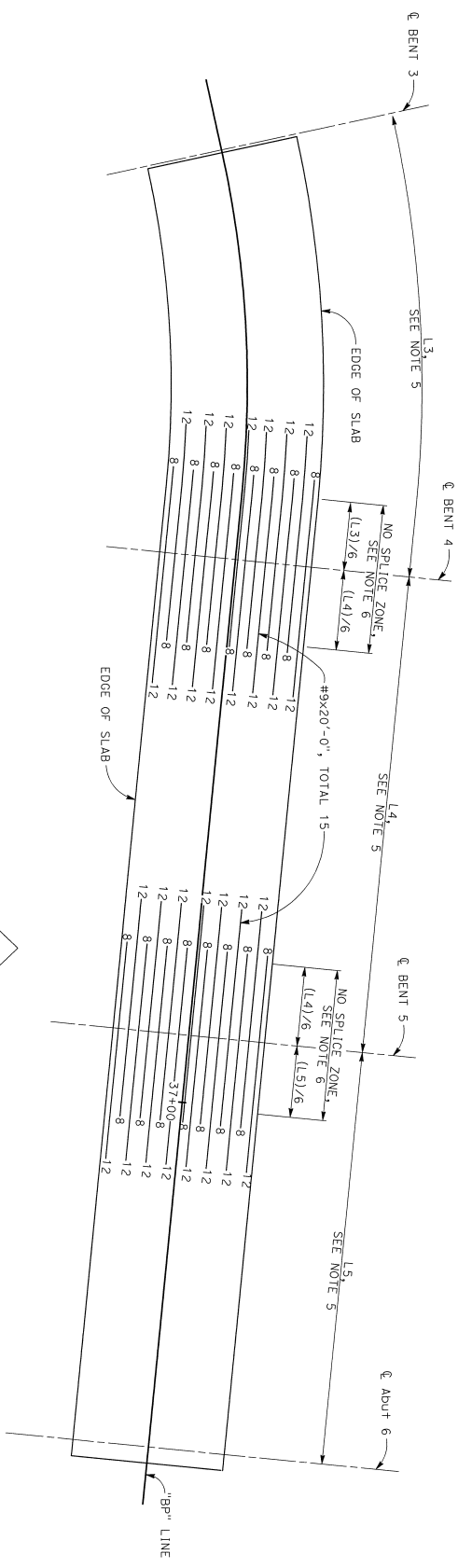
DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	306 / 345

March 6, 2020
 REGISTERED STRUCTURAL ENGINEER DATE

PLANS APPROVAL DATE
 No. 2639
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 CIVIL ENGINEER
 No. 12721/20
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

CITY OF SAN JOSE DOI
 200 E. SANTA CLARA ST., 4TH FLOOR
 SAN JOSE, CA 95113
 BIGGS CARDOSA ASSOCIATES INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126

- NOTES:
1. Space bars approximately equally.
 2. Additional Reinf must be spliced with "Service Level" splices staggered at 4' min outside the "No Splice Zone" indicated.
 3. Slab longitudinal Reinf must be placed parallel to, or concentric with "BP" Line.
 4. Number at the end of the bar indicates feet from ϕ Bent.
 5. L3 to L5 are measured along "BP" Line.
 6. Length of "No Splice Zone" varies for each span.
 7. Transverse slab Reinf not shown for clarity.



ADDITIONAL TOP SLAB REINFORCEMENT

3/16" = 1'-0"

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

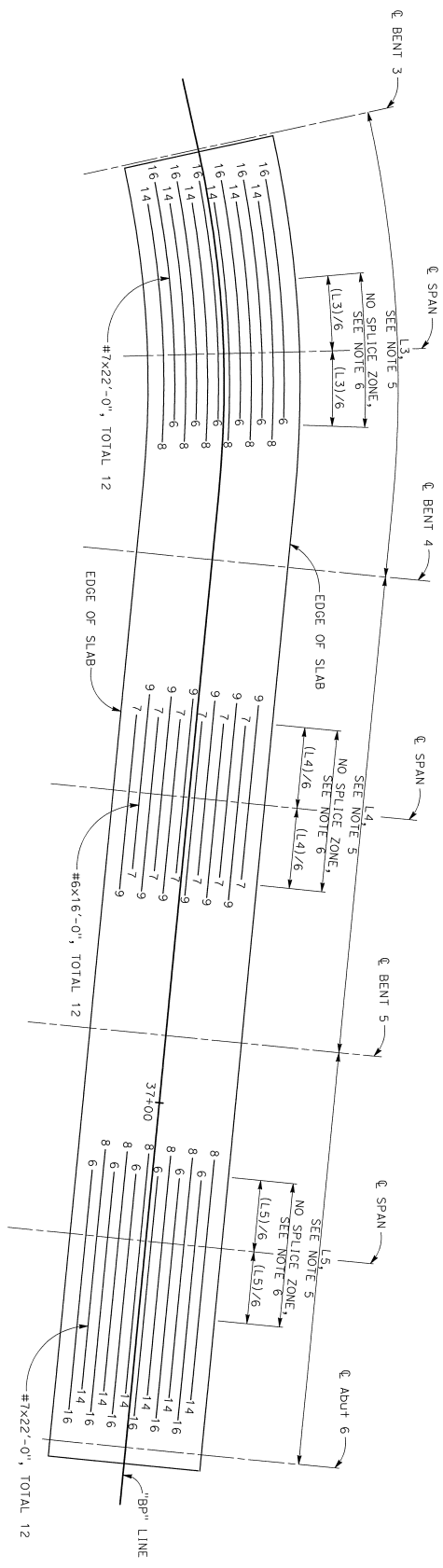
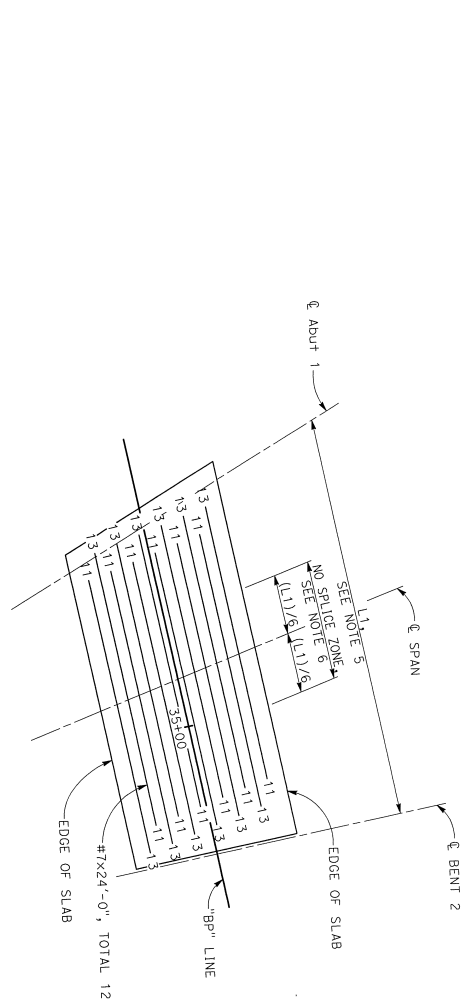
DESIGN PREPARED BY S. Liu	DESIGN BY G. TOLAN	CHECKED BY P. CONGIDI	DESIGN DATE 3-5-2020	PROJECT NUMBER & PHASE 04-1K2804	CONTRACT NO. 04-1K2804	DATE PLOTTED => 04/14/20
DESIGN DETAILS BY A. VASQUEZ	DESIGN BY G. TOLAN	CHECKED BY P. CONGIDI	DESIGN DATE 3-5-2020	PROJECT NUMBER & PHASE 04-1K2804	CONTRACT NO. 04-1K2804	DATE PLOTTED => 04/14/20
QUANTITIES BY A. VASQUEZ	DESIGN BY G. TOLAN	CHECKED BY P. CONGIDI	DESIGN DATE 3-5-2020	PROJECT NUMBER & PHASE 04-1K2804	CONTRACT NO. 04-1K2804	DATE PLOTTED => 04/14/20

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

NB 101 ON-RAMP POC SLAB REINFORCEMENT PLAN No. 1

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	307 345

Marshall Williams 1/20/20
 REGISTERED STRUCTURAL ENGINEER DATE
 March 6, 2020
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness or assumed copies of this plan sheet.
 CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8TH FLOOR
 SAN JOSE, CA 95133
 BIGGS CARDOSA ASSOCIATES INC.
 885 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95128



- NOTES:
1. Space bars approximately equally, arrange to avoid column reinforcement.
 2. Additional Reinf must be spliced with "Service Level" splices staggered at 4' min outside the "No Splice Zone" indicated.
 3. Slab longitudinal Reinf must be placed parallel to, or concentric with "BP" Lines.
 4. Number at the end of the bar indicates feet from ℓ span.
 5. L1 and L3 to L5 are measured along "BP" Line.
 6. Length of "No Splice Zone" varies for each span.
 7. Transverse slab Reinf not shown for clarity.

ADDITIONAL BOTTOM SLAB REINFORCEMENT

3/16" = 1'-0"

N

NOTE:
 THE CONTRACTOR MUST VERIFY ALL
 CONTROLLING FIELD DIMENSIONS BEFORE
 ORDERING OR FABRICATING ANY MATERIAL

DESIGN OVERSIGHT	BY	DATE
S. Liu	G. TOLAN	3-5-2020
DESIGN DETAIL SHEET (ENGLISH) REV. 03/14/21		

DESIGN	BY	CHECKED
DETAILS	G. TOLAN	P. COGGIOLI
QUANTITIES	A. VASQUEZ	F. KLANOFFRAD

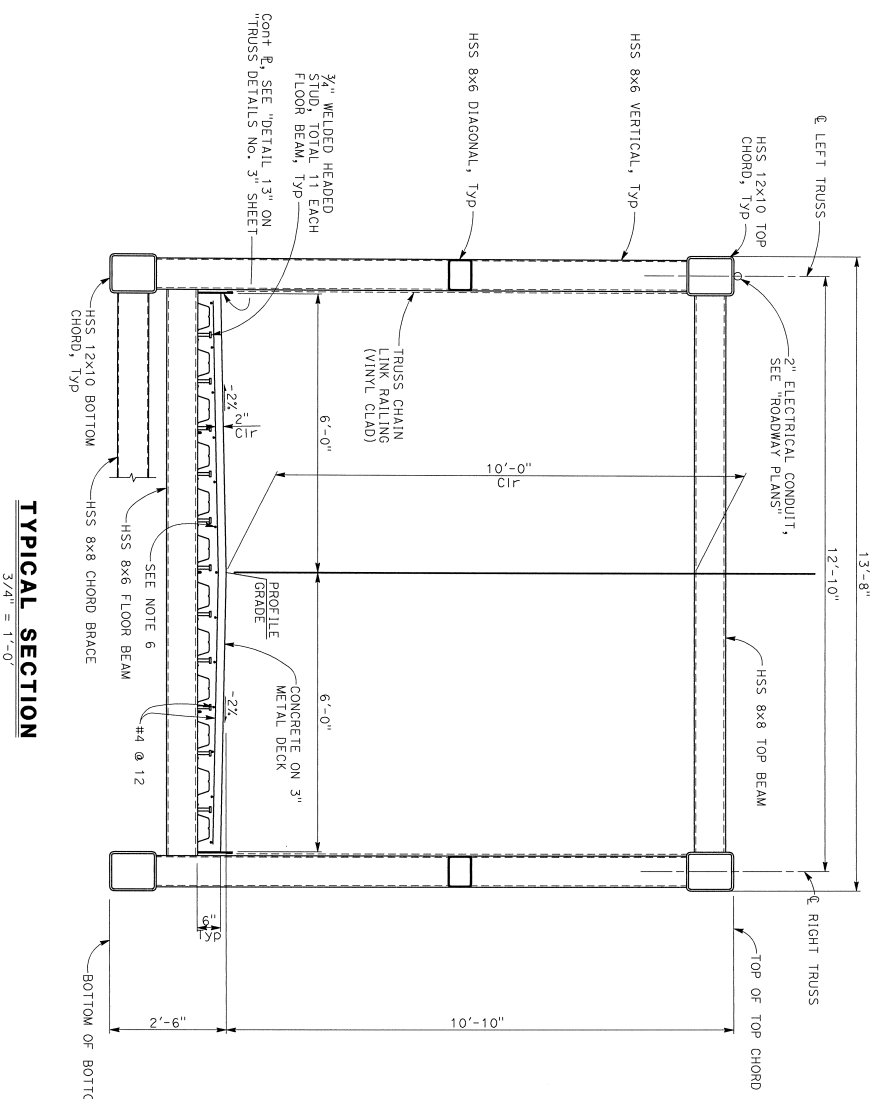
PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

UNIT:	0000
PROJECT NUMBER & PHASE:	04180002241
CONTRACT NO.:	04-1K2804

DESIGNED BY	DATE	SCALE
G. KENNING	3/7-06/76	AS SHOWN
PROJECT ENGINEER	12/8, 8/1	
REVISION DATES		
1		
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DIST	COUNTY	ROUTE	POST MILES	SHEET TOTALS
04	SCI	101	R28.4/R28.9	TOTAL PROJECT SHEETS 308
				343

March 6, 2020 REGISTERED STRUCTURAL ENGINEER DATE PLANS APPROVAL DATE		REGISTERED PROFESSIONAL ENGINEER No. 2639 EXP. 12/31/20 STATE OF CALIFORNIA	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.			
CITY OF SAN JOSE DOI 200 E. SANTA CLARA ST., 8th FLOOR SAN JOSE, CA 95131		BIGGS CARDOSA ASSOCIATES INC. 865 THE ALAMEDA SAN JOSE, CALIFORNIA 95126	



TYPICAL SECTION
3/4" = 1'-0"

- NOTES:
- All dimensions are measured normal to "bp" Line.
 - Metol deck must be 18 GAUGE, FY = 50 KSI Min TYPE and conform to the following properties:
 - Thickness: 0.0475 in
 - Positive bending: Min: 0.48 in³/ft
 - Negative bending: Min: 0.63 in³/ft
 - Metol deck must be attached as follows:
 - Side seam - burton punch or welded @ 36 MOX.
 - Metol deck must bear a minimum of 2 inches on supporting members.
 - Deck flutes must run perpendicular to supporting members.
 - Longitudinal deck reinforcement must be positioned over low flutes of metol deck to provide 1" minimum clearance to metol deck.
 - For vinyl clad mesh details, and "ELECTROLIER TRUSS ANCHORAGE DETAIL", see "ROADWAY Plans" and "TRUSS DETAILS NO. 3" sheet.

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGNER	S. Liu	DESIGN	BY G. TOLAN	CHECKED	D. ROSELLINI	PREPARED FOR THE	STATE OF CALIFORNIA
DESIGN REVISION	3-5-2020	DETAILS	BY G. TOLAN	CHECKED	F. ROSELLINI	DEPARTMENT OF	TRANSPORTATION
DATE		QUANTITIES	BY A. VASQUEZ	CHECKED	F. KLANOFFRAD	UNIT:	0000
DESIGN DETAIL SHEET (ENGLISH REV. 02/14/12)						PROJECT NUMBER & PHASE:	04160002241
						CONTRACT NO.:	04-1A2804
						DESIGNED BY	PRINCE BEATING
						DRAWN BY	REVISION DATE
						DATE	
						SHEET	16
						OF	31

DIST	COUNTY	ROUTE	POST MILEAGE	SHEET NO.	TOTAL SHEETS
04	SCI	101	R28.4/R28.9	309	345

Michael Williams 1/20/20
 REGISTERED STRUCTURAL ENGINEER DATE

March 6, 2020
 APPROVAL DATE

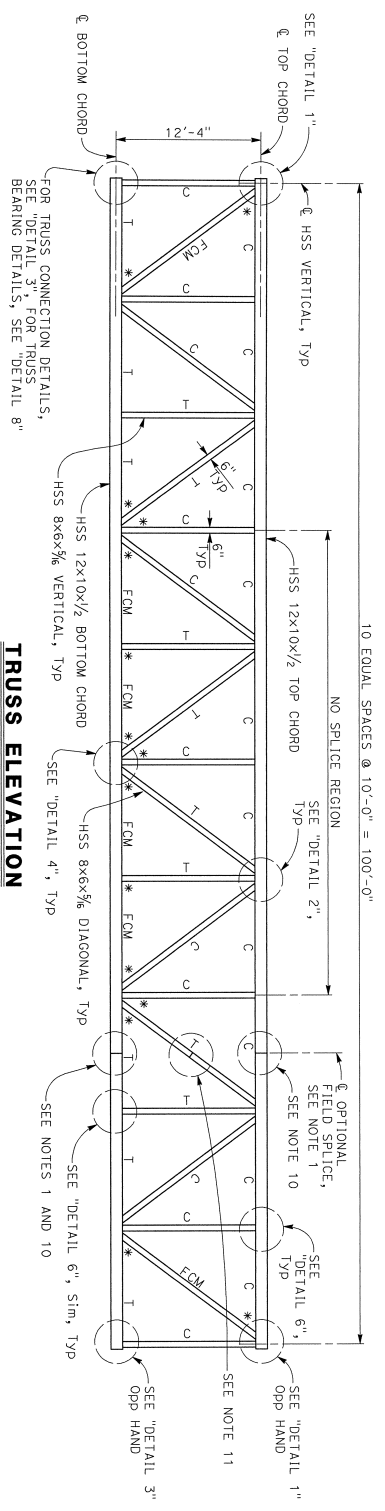
No. 2639
 EXP. 12/31/20

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA

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CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95113

BIGGS CARDOSA ASSOCIATES INC.
 665 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126



TRUSS ELEVATION
 3/16" = 1'-0"

NOTES:

- € optional field splice must be located midway between HSS verticals.
- At the Contractor's option, additional shop butt welded splices may be utilized. Shop butt welded splices must use CJP weld and must be located a minimum of 2'-0" from vertical members and outside of the "No Splice Region" indicated. Show all proposed shop butt welded splices in the shop drawings. See "DETAIL 11" on "TRUSS DETAILS No. 2" sheet.
- At the Contractor's option, alternate field splice location outside the "No Splice Region" may be submitted to the engineer for review and approval.
- Show all proposed lift points in the shop drawings.
- Right truss shown. Left truss similar.
- All members not designated as either Fracture Critical Members or Main Tension and Compression Members are Secondary Members.
- For Truss Camber Details, see "STEEL TRUSS CAMBER DIAGRAM" on "DECK CONTOURS" sheet.
- For "TOP CHORD TRUSS PLAN" and "BOTTOM CHORD TRUSS PLAN", see "TRUSS FRAMING PLANS" sheet.
- For "DETAIL 1", "DETAIL 2", "DETAIL 3", "DETAIL 4", and "DETAIL 6", see "TRUSS DETAILS No. 1" sheet.
- For optional welded splice detail, see "DETAIL 11" on "TRUSS DETAIL No. 2" sheet. For optional bolted splice detail, see "DETAIL 16" on "TRUSS DETAIL No. 4" sheet.
- For optional welded splice detail, see "DETAIL 11" on "TRUSS DETAIL No. 2" sheet. For optional bolted splice detail, see "DETAIL 17" on "TRUSS DETAIL No. 5" sheet.
- For "DETAIL 8", see "TRUSS DETAILS No. 2" sheet.
- Any attachment, welded to a FCM member or FCM component of a member, must meet all requirements of the FCM (including welding of the attachment) when any dimension of the attachment exceeds 1/4 inches in the direction parallel to the longitudinal axis of the member.
- All welds to FCMs must be considered fracture critical and must conform to the requirements of the FCM. Welds to compression members in tension areas of bending members must not be defined as fracture critical.
- The contractor may use a circular curve to approximate the camber diagram.

LEGEND:

- FCM Indicates Fracture Critical member
- T Indicates Main Tension Member
- C Indicates Main Compression Member
- * Indicates Welded Connection is FCM. For welded connection details, see "TRUSS DETAILS" sheets

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

DESIGN OVERSIGHT
S. L. Lu
 3-5-2020

DESIGN	BY	CHECKED
DETAILS	BY G. TOLAN	BY D. ROSELLINI
QUANTITIES	BY A. VASQUEZ	BY F. KLANOFFRAD

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DESIGNER	PROJECT ENGINEER	SEAL NO.
G. KENNING		37-0676
PROJECT ENGINEER		2571-05
		928-61

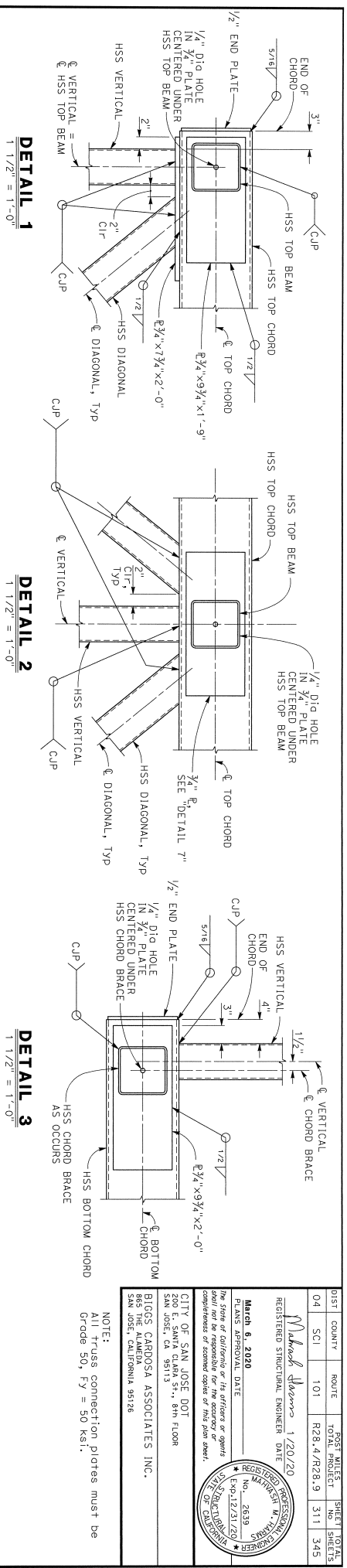
NB 101 ON-RAMP POC
TRUSS ELEVATION

ORIGINAL SCALE IN INCHES
 0 1 2 3

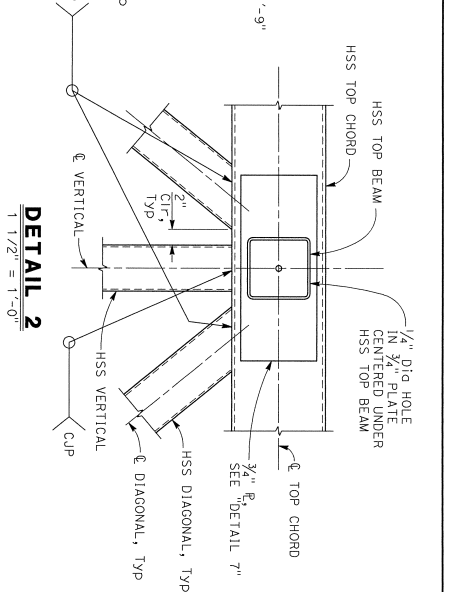
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DATE PLOTTED => 04/17/2020

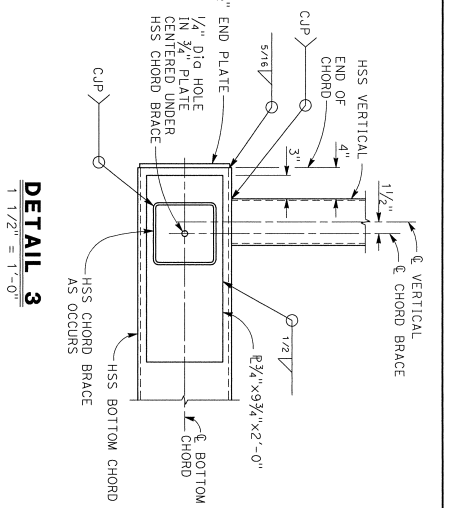
SHEET 17 OF 31



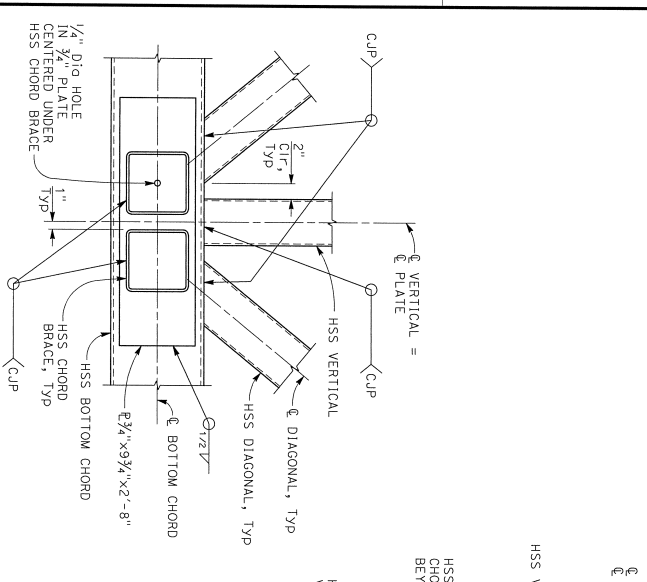
DETAIL 1
1 1/2" = 1'-0"



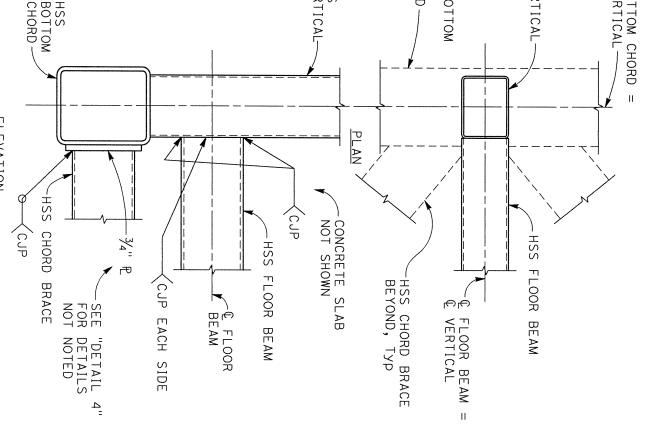
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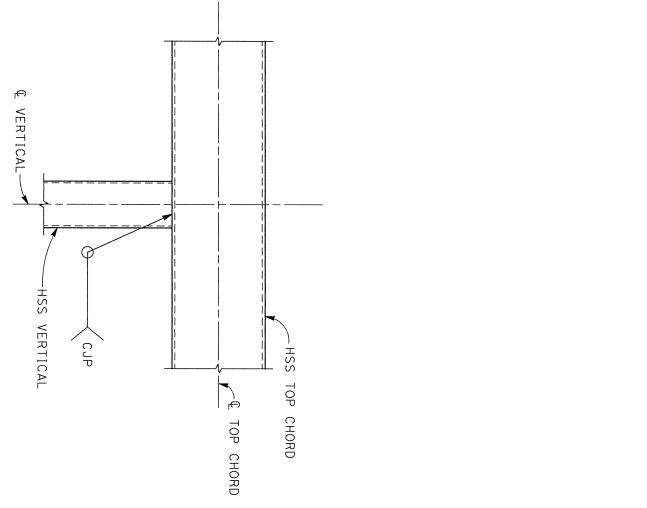
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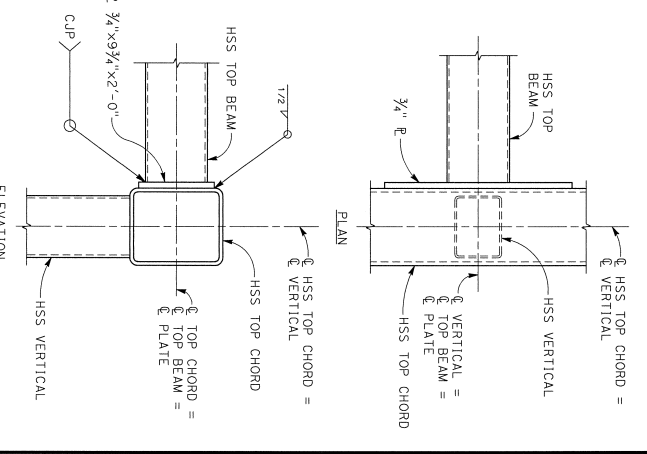
DETAIL 4
1 1/2" = 1'-0"



DETAIL 5
1 1/2" = 1'-0"



DETAIL 6
1 1/2" = 1'-0"



DETAIL 7
1 1/2" = 1'-0"

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

DESIGN PREPARED BY S. Liu		DESIGN CHECKED BY G. TOLAN		DESIGN APPROVED BY G. KENNING	
DATE 3-5-2020		DATE 3-7-2016		DATE 3-7-2016	
DESIGNER S. Liu		DESIGNER G. TOLAN		DESIGNER G. KENNING	
CHECKER S. Liu		CHECKER F. KIANPOURAD		CHECKER R28.451	
DRAWN BY S. Liu		DRAWN BY S. Liu		DRAWN BY S. Liu	
SCALE 1/2" = 1'-0"		SCALE 1/2" = 1'-0"		SCALE 1/2" = 1'-0"	
PROJECT NUMBER & PHASE 04-1K2804		PROJECT NUMBER & PHASE 04-1K2804		PROJECT NUMBER & PHASE 04-1K2804	
CONTRACT NO. 04-1K2804		CONTRACT NO. 04-1K2804		CONTRACT NO. 04-1K2804	
SHEET NO. 19		SHEET NO. 19		SHEET NO. 19	
TOTAL SHEETS 31		TOTAL SHEETS 31		TOTAL SHEETS 31	

March 6, 2020

REGISTERED PROFESSIONAL ENGINEER
No. 2639
No. 12/23/12/20

City of San Jose, CA 95131
200 E. SANTA CLARA ST., 8th FLOOR
SAN JOSE, CA 95131

BIGGS CARDOSA ASSOCIATES, INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

March 6, 2020
REGISTERED PROFESSIONAL ENGINEER
No. 2639
No. 12/23/12/20

City of San Jose, CA 95131
200 E. SANTA CLARA ST., 8th FLOOR
SAN JOSE, CA 95131

BIGGS CARDOSA ASSOCIATES, INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTE:
All Truss connection plates must be
Grade 50, Fy = 50 KSI.

DIST	COUNTY	ROUTE	POST MILEST.	SHEET TOTAL
04	SCI	101	R28.4/R28.9	312 / 345

March 6, 2020

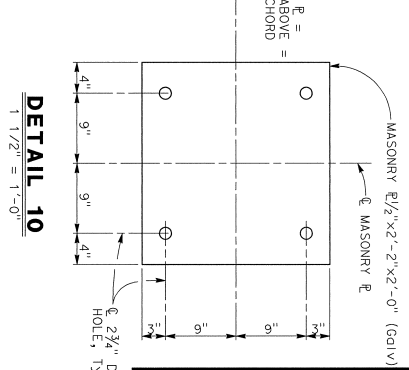
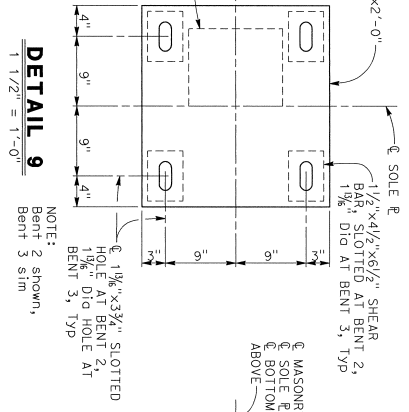
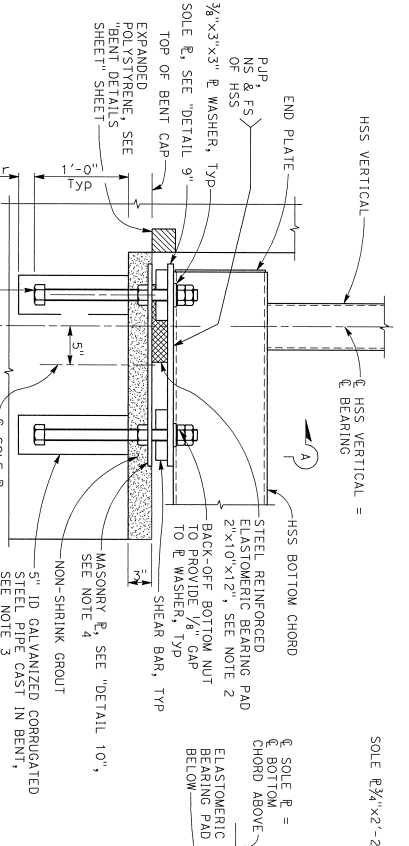
REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 Exp. 12/31/20
 STATE OF CALIFORNIA
 CIVIL ENGINEER

CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8TH FLOOR
 SAN JOSE, CA 95131

BIGGS CARDOSA ASSOCIATES, INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95128

REGISTERED PROFESSIONAL ENGINEER
 No. 1271720
 Exp. 12/31/20
 STATE OF CALIFORNIA
 CIVIL ENGINEER

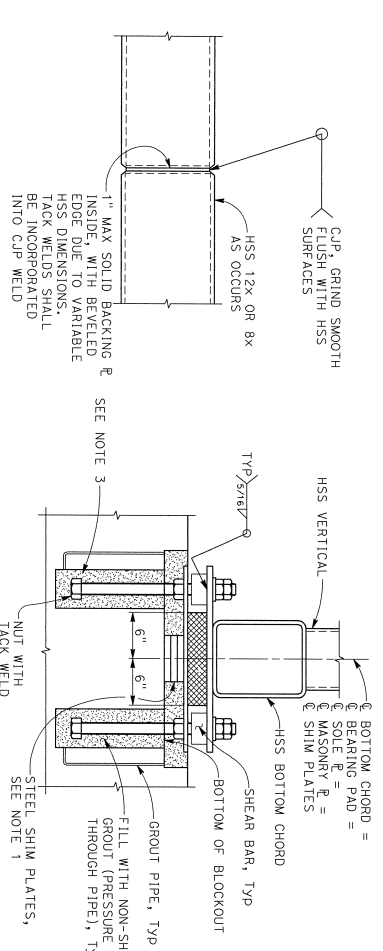
March 6, 2020
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DETAIL 8
 1 1/2" = 1'-0"

DETAIL 9
 1 1/2" = 1'-0"

DETAIL 10
 1 1/2" = 1'-0"



DETAIL 11
 1 1/2" = 1'-0"

SECTION A-A
 1 1/2" = 1'-0"

SECTION B-B
 3" = 1'-0"

- NOTES:
- Support truss with shim plates. Shim plates must have a minimum area of 30 in². Fully encase shim plates in grout. Do not install concrete on metal deck until grout reaches compressive strength of 3.6 ksi.
 - Epoxy bond top of bearing pad to sole plate. Coat bottom of bearing with silicone grease or Bent 2.
 - Cut ends of CSP perpendicular. Grind ends without damage. File down joint ends with angle iron. File down joint ends and secure CSP plumb and level with bottom of blockout.
 - Final elevation of masonry plates must be level transversely and follow the slope of the bridge longitudinally.
 - For joint armor detail, see "JOINT ARMOR FOR PEDESTRIAN WALKWAYS" sheet.

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

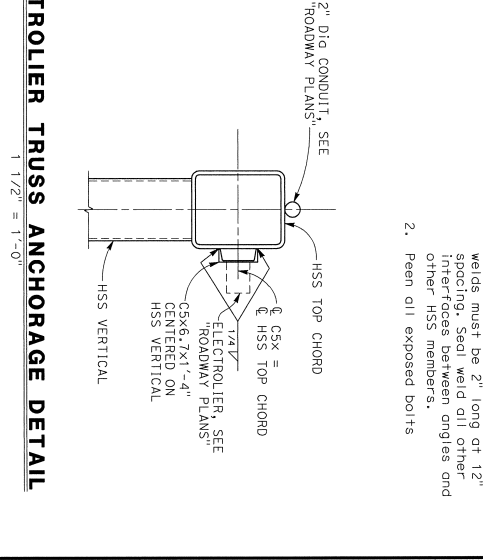
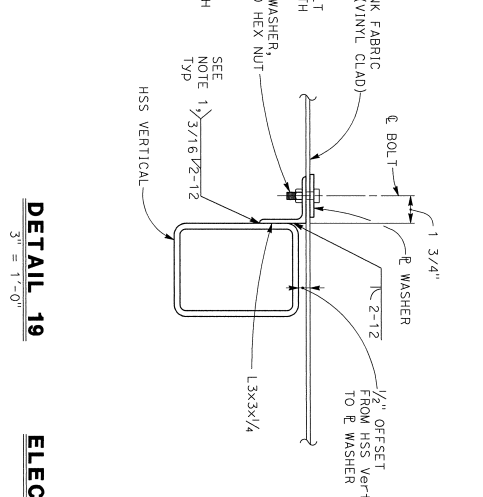
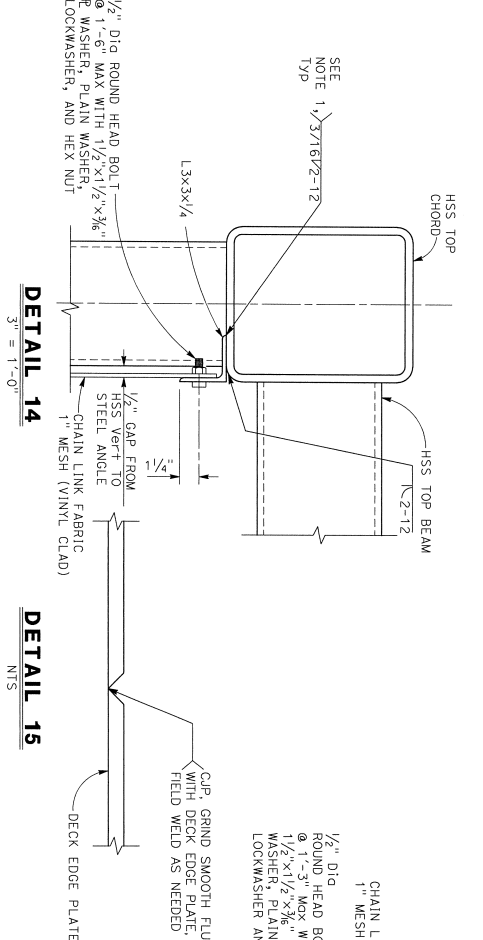
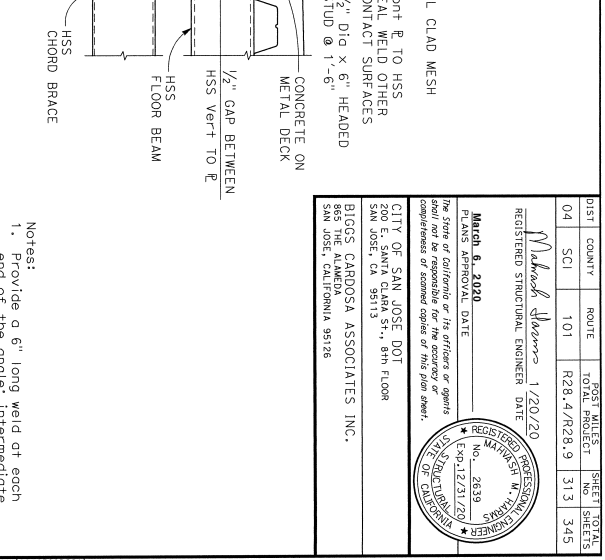
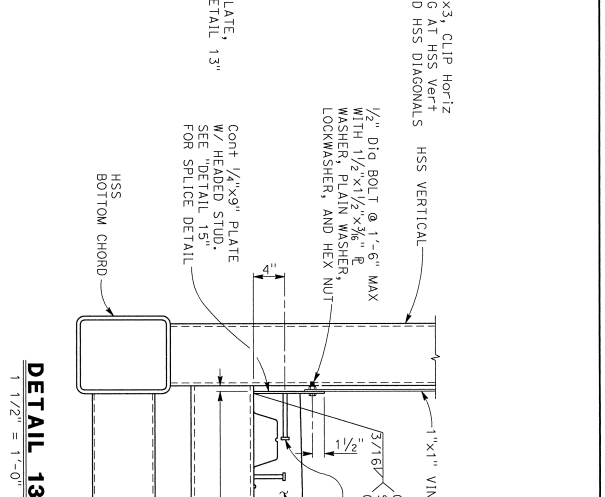
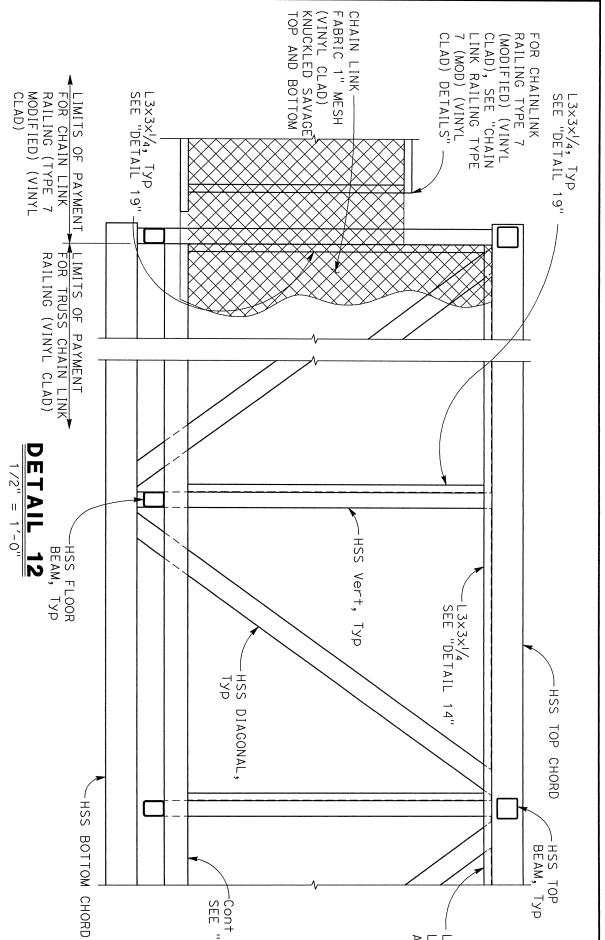
S. Liu
 3-5-2020

DESIGN	BY	DESIGN	BY
DETAILS	G. TOLAN	DETAILS	G. TOLAN
QUANTITIES	A. VASQUEZ	QUANTITIES	A. VASQUEZ

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

NB 101 ON-RAMP POC
TRUSS DETAILS No. 2

DIST COUNTY ROUTE POST MILELET SHEET TOTALS
 04 SCI 101 120/20 313 345
March 8, 2020
 REGISTERED STRUCTURAL ENGINEER DATE
 REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 EXP. 12/31/20
 CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8TH FLOOR
 SAN JOSE, CA 95131
 BIGGS CARDOSA ASSOCIATES INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126



NOTE:
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DESIGN PREPARED BY S. Liu	DESIGN BY G. TOLAN	DESIGNED BY D. ROSELLINI	BRIDGE NO. 37-0676
DESIGN CHECKED BY 3-5-2020	DESIGN CHECKED BY B.G. TOLAN	DESIGN CHECKED BY F. ROSSELLINI	POST MILELET R28.61
QUANTITIES BY A. VASQUEZ	QUANTITIES BY A. VASQUEZ	QUANTITIES BY F. ROSSELLINI	CONTRACT NO.: 04-1K2804
DESIGN DETAIL SHEET (ENGLISH REV. 02/14/21)	DESIGN DETAIL SHEET (ENGLISH REV. 02/14/21)	DESIGN DETAIL SHEET (ENGLISH REV. 02/14/21)	DATE PLOTTED => #DATE

DIST	COUNTY	ROUTE	POST MILEAGE TO NEXT	SHEET NO.	TOTAL SHEETS
04	SCI	101	R28.4/R28.9	314	345

March Williams 1/20/20
REGISTERED STRUCTURAL ENGINEER DATE

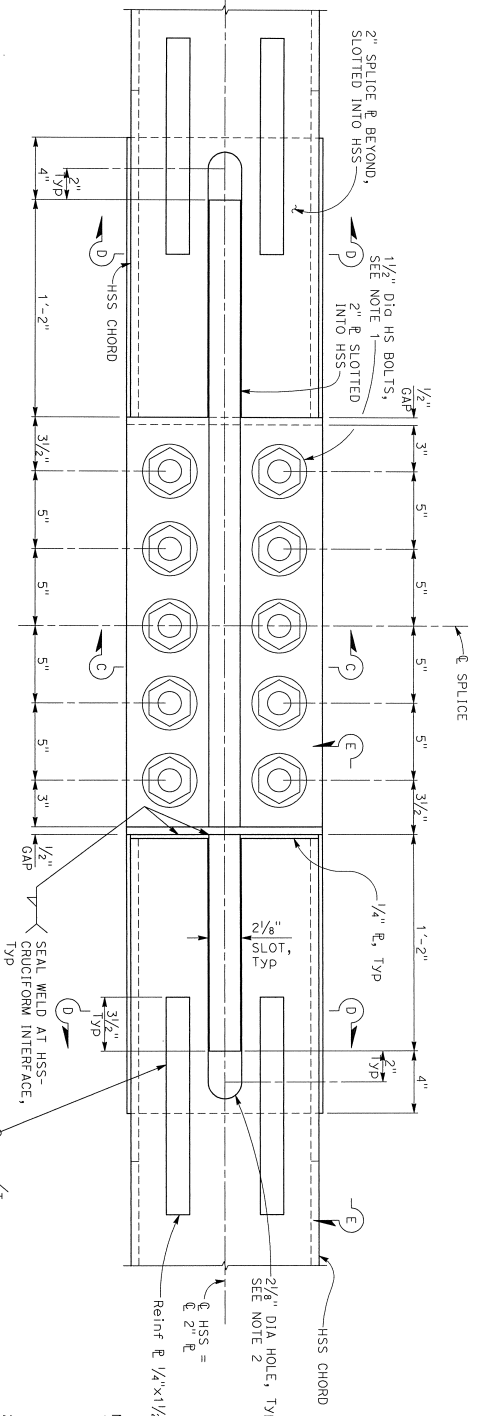
March 6, 2020
PLANS APPROVAL DATE

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CITY OF SAN JOSE DOI
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113

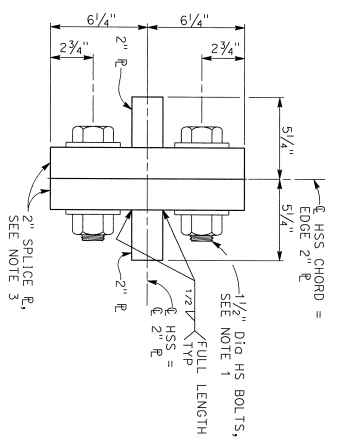
BIGGS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20
MARCH W. WILLIAMS
SITE SUPERVISOR

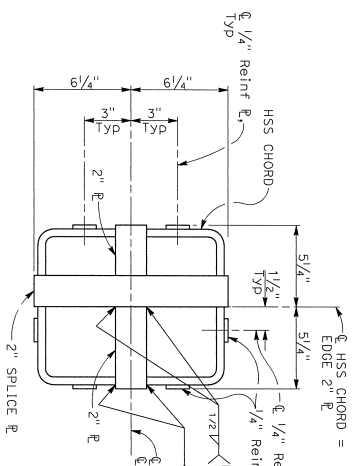


DETAIL 16
3" = 1'-0"

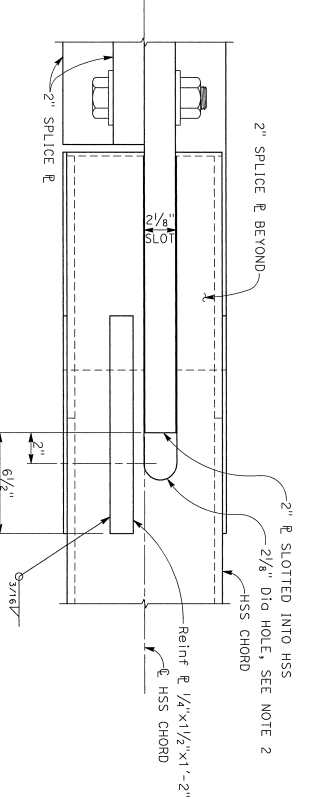
- NOTES:
1. 5/16" Dia A490 HS bolts, threads excluded, total 10, with hex nuts and 3/16" washers below bolt head and nut in 1 1/8" dia oversize hole. HS bolts must not be galvanized. Cleaning process of HS bolt must not introduce hydrogen into steel. Bolt holes must be drilled full size or subpunched and reamed to size.
 2. Drill hole prior to cutting slot, seal any remaining void with silicone sealant, Typ.
 3. Splice plates must be in full contact prior to tightening bolts. Bolt bolts after tightening.
 4. All plates in splice connection must be Grade 50, Fy = 50 ksi.



SECTION C-C
3" = 1'-0"



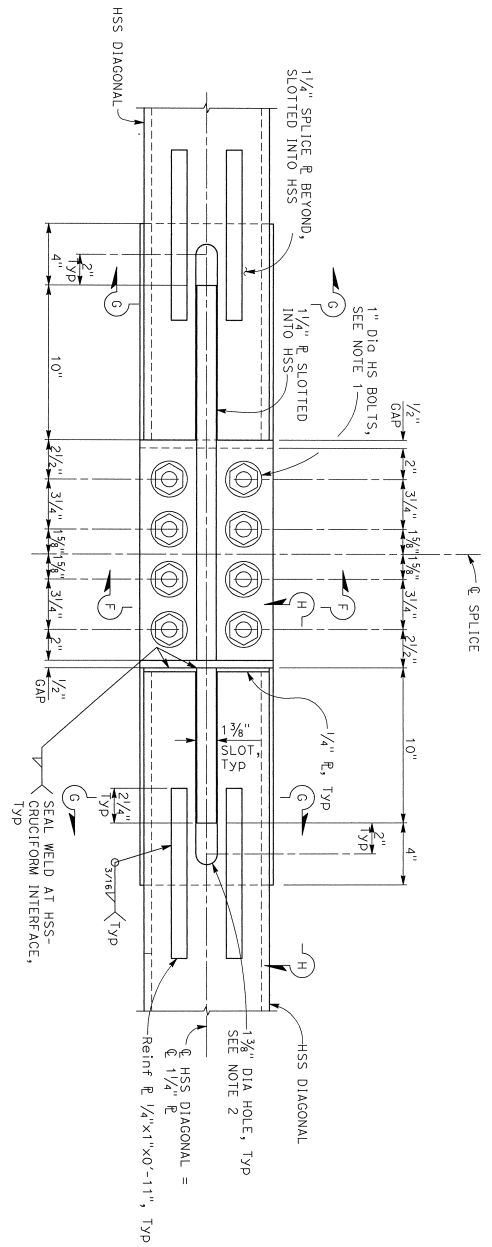
SECTION D-D
3" = 1'-0"



SECTION E-E
3" = 1'-0"

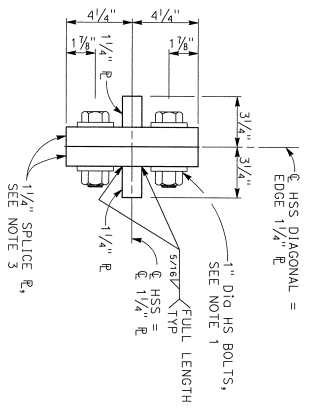
NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN PREPARED FOR THE		STATE OF CALIFORNIA	
DESIGNER		DEPARTMENT OF TRANSPORTATION	
DESIGN		PROJECT ENGINEER	
DETAILS		PROJECT NO.: 04-1K2804	
QUANTITIES		CONTRACT NO.: 04-1K2804	
BY: G. TOLAN		DATE: 12/8/19	
BY: A. VASQUEZ		DRAWN BY: [Signature]	
CHECKED: D. ROSELLINI		DATE: 3/7-2020	
CHECKED: F. KLAMOFFRAD		DATE: 3/7-2020	
ORIGINAL SCALE: IN INCHES		SHEET NO. 22	
FOR REVISION PLANS		OF 31	

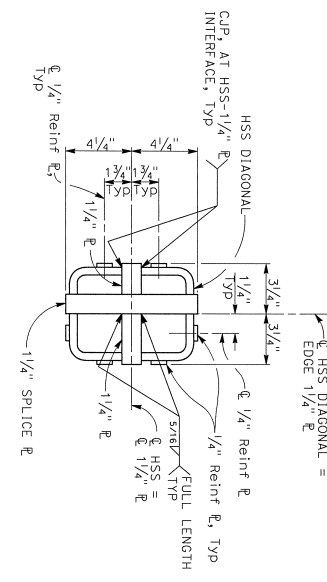


DETAIL 17
3" = 1'-0"

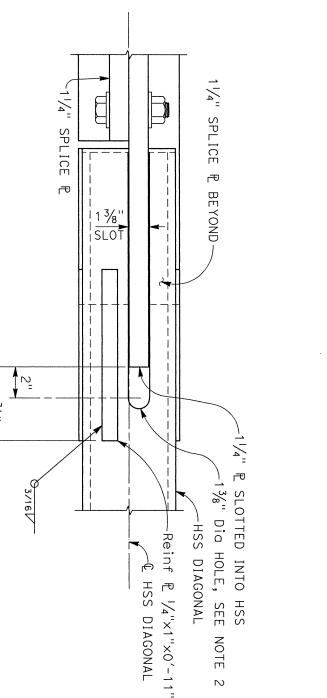
- NOTES:
1. Dia. A190 HS bolts, threads excluded, total 10, with hex nuts and 3/8" washers below bolt head and nut in 1/4" Dia oversized hole. HS bolts must not be galvanized. Cleaning process of HS bolt must not introduce hydrogen into steel. Bolt holes must be drilled full size or subpunched and reamed to size.
 2. Drill hole prior to cutting slot, seal any remaining void with silicone sealant? Typ.
 3. Splice plates must be in full contact prior to tightening bolts. Bolt heads after tightening.
 4. All plates in splice connection must be Grade 50, Fy = 50 Ksi



SECTION F-F
3" = 1'-0"



SECTION G-G
3" = 1'-0"



SECTION H-H
3" = 1'-0"

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL

DESIGN PREPARED BY
S. Liu
DATE
3-5-2020

DESIGN	BY	CHECKED
DETAILS	G. TOLAN	D. ROSELLINI
QUANTITIES	G. TOLAN	F. KLANOFFRAD
	A. VASQUEZ	

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

UNIT:	0000
PROJECT NUMBER & PHASE:	041R2804

PROJECT NO. 04-1R2804
NB 101 ON-RAMP POC
TRUSS DETAILS No. 5

DIST COUNTY ROUTE POST MILES SHEET TOTALS
04 SCI 101 R28-4/R28-9 315 345

Michael Slavov 1/20/20
REGISTERED STRUCTURAL ENGINEER DATE

March 6, 2020
The State of California or its officers or agents
shall not be responsible for the accuracy or
completeness of as-built copies of this plan sheet.

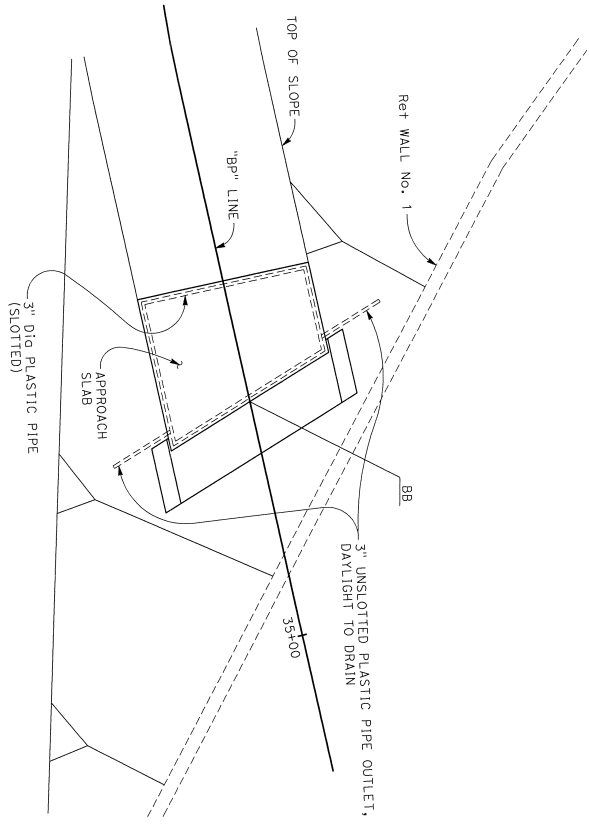
CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95131
BIOCS CARDOSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95136

REGISTERED PROFESSIONAL ENGINEER
No. 2639
E-XP-12/21/20
SITE SPECIFIC

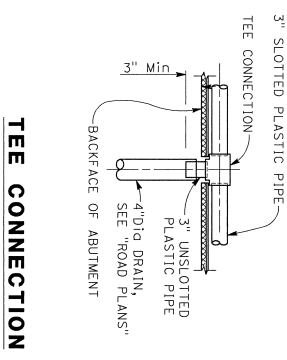
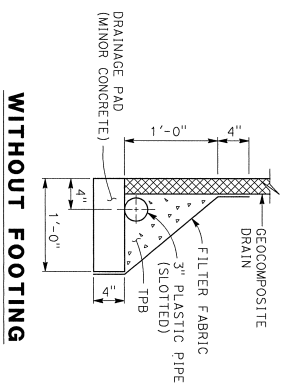
DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	318 345

March 6, 2020
 REGISTERED STRUCTURAL ENGINEER DATE
 PLANS APPROVAL DATE
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 CITY OF SAN JOSE DOI
 200 F. SANTA LARA ST., 8th FLOOR
 SAN JOSE, CA 95113
 BIGGS CARDOSA ASSOCIATES INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95128

NOTES:
 1. For details not shown, see  and .



PLAN
 1" = 3'



NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN PREPARED BY	S. Liu
DATE OF DATE	3-5-2020

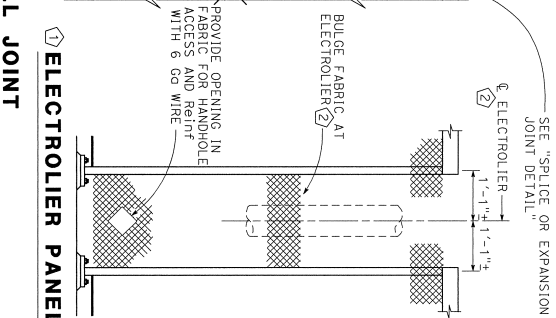
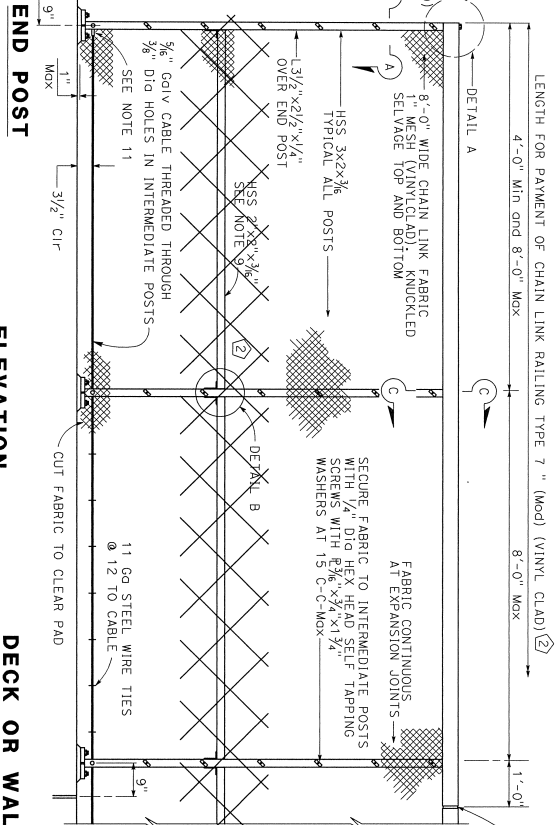
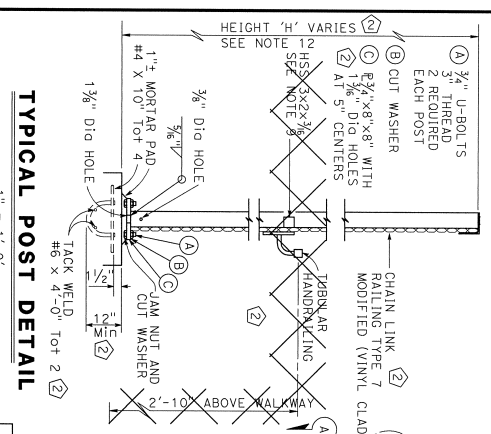
DESIGN	BY	CHECKED
DETAILS	G. TOLAN	P. CONGIDI
QUANTITIES	A. VASQUEZ	F. KLANOFFRAD

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

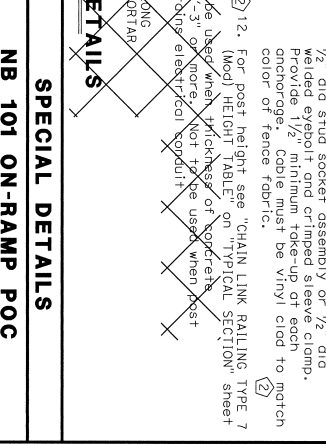
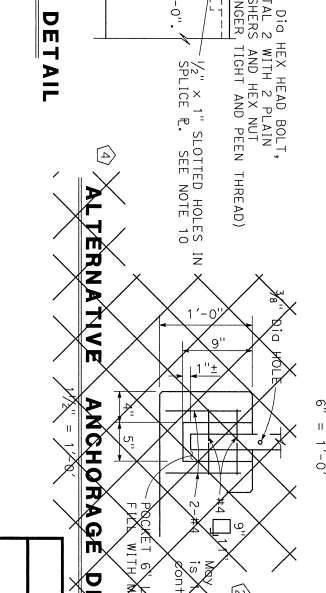
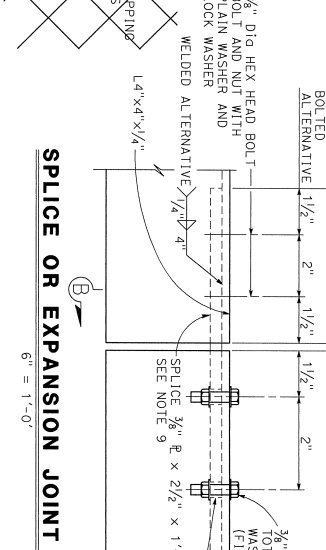
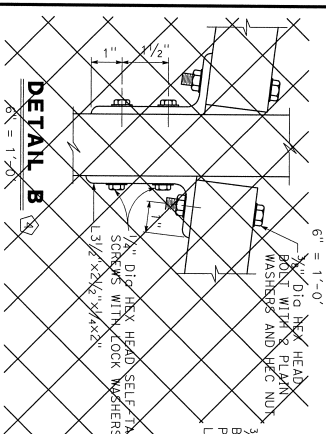
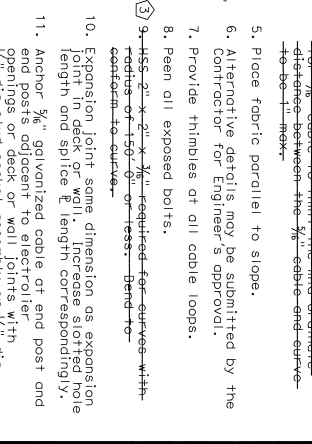
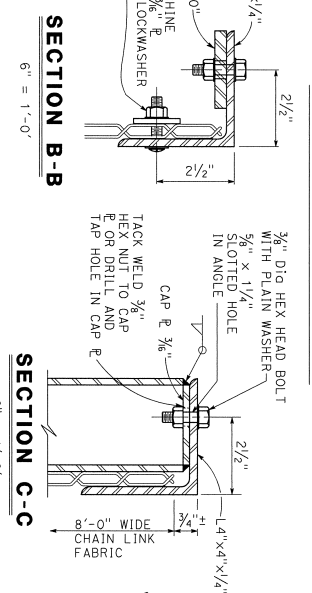
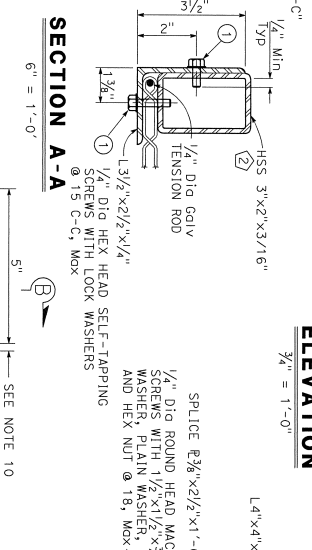
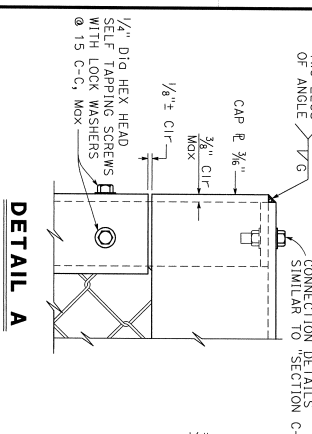
UNIT:	0000
PROJECT NUMBER & PHASE:	04160002241

ENGINEER	3/1/06/76
PROJECT ENGINEER	R28.4/5

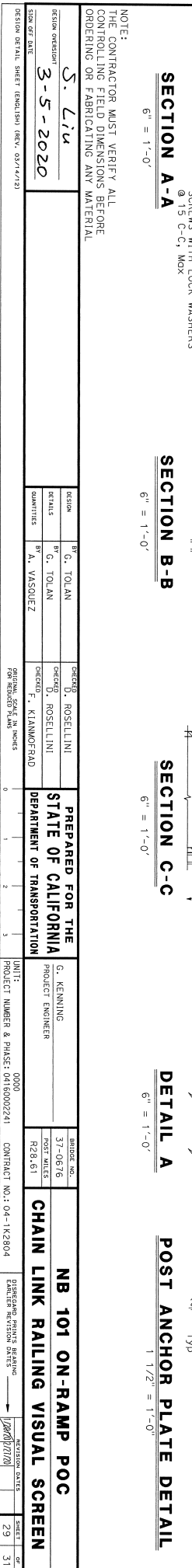
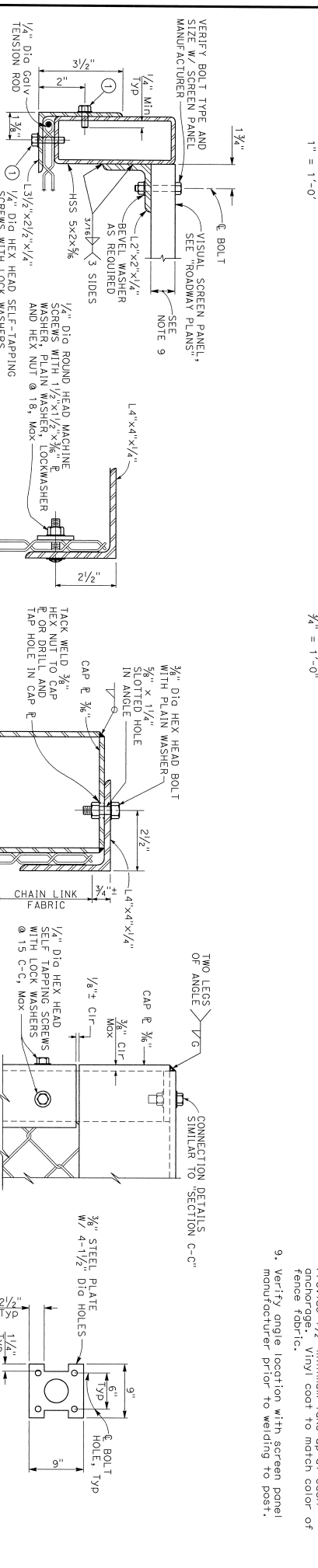
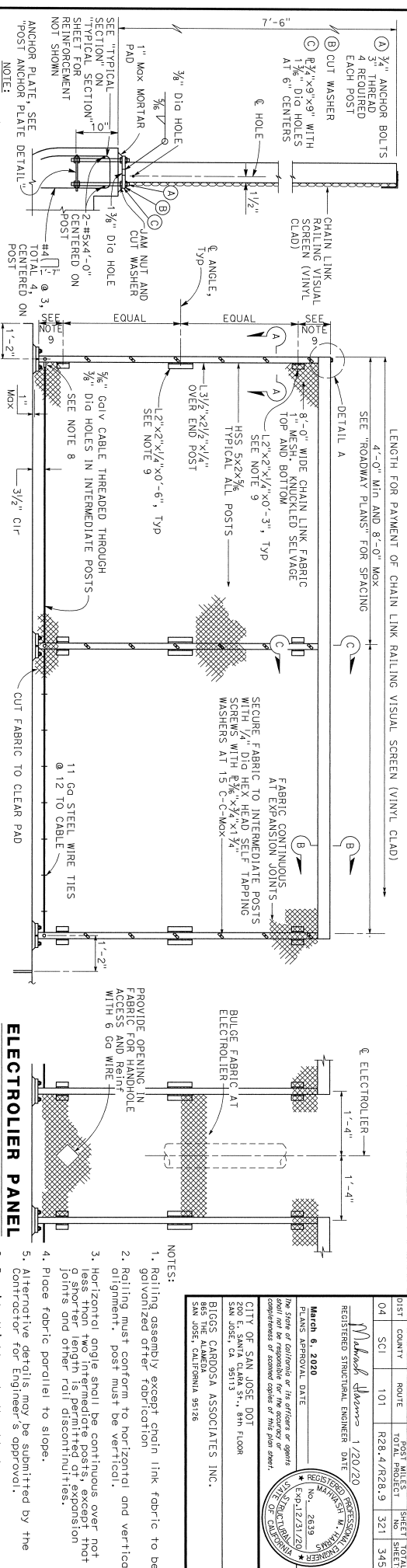
NB 101 ON-RAMP POC
STRUCTURE APPROACH DRAINAGE DETAILS



- NOTES:
- Rolling assembly except chain link fabric to be galvanized after fabrication.
 - Railing must conform to horizontal and vertical alignment. Post must be vertical. Horizontal alignment must be within 1/8\"/>
 - Horizontal angle shall be continuous over not less than two intermediate posts, except that joints and other roll discontinuities.
 - When fitting to pierce an unperforated alignment with a depth of 1/2\"/>
 - Place fabric parallel to slope.
 - Alternative details may be submitted by the Contractor for Engineer's approval.
 - Provide thimbles at all cable loops.
 - Peen all exposed bolts.
 - HSS 3\"/>
 - Expansion joint same dimension as expansion joint in deck or wall. Increase slotted hole length and splice length correspondingly.
 - Anchor 3/8\"/>
 - Anchor 3/8\"/>



BRIDGE STANDARD DETAILS		MODIFICATIONS SHOWN:		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES		CHAIN LINK RAILING TYPE 7 (MOD) (VINYL CLAD) DETAILS	
FILE NO. X816-220-1	APPROVAL DATE OCTOBER 2014	1 TITLE REVISED	2 DETAIL MODIFIED	3 NOTE DELETED	4 DETAIL NOT USED	PROJECT NUMBER & PHASE: 04160202241	CONTRACT NO.: 04-1N2804	DESIGNER'S DRAWING NUMBER: 281	SHEET NO. 31
The components of the Bridge Standard Details have been prepared under the supervision of a Registered Civil Engineer in the State of California.		The modifications shown on this drawing were prepared under the supervision of a Registered Civil Engineer in the State of California.		The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.		REGISTERED PROFESSIONAL ENGINEER MATHIAS R. THOMAS No. 2839 Exp. 12/31/20 STATE OF CALIFORNIA	
Drawn by: W. J. G. / W. J. G.		Checked by: W. J. G. / W. J. G.		Date Plotted: 3/2014		Scale: AS SHOWN		Revision Dates: 281	



DIST.	COUNTY	ROUTE	POST MILES	TOTAL PROJECT	SHEET TOTAL
04	SCI	101	R28.4/R28.9	321	345

REGISTERED STRUCTURAL ENGINEER DATE
 March 6, 2020
 The State of California or its officers or agents (and) and be responsible for the accuracy or completeness of scanned copies of this plan over.
 CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 5TH FLOOR
 SAN JOSE, CA 95113
 BIGGS CARROSA ASSOCIATES INC.
 868 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126

- NOTES:
- Railing assembly except chain link fabric to be galvanized after fabrication.
 - Railing must conform to horizontal and vertical alignment.
 - Horizontal angle shall be continuous over not less than two intermediate posts, except that joints and other roll discontinuities.
 - Place fabric parallel to slope.
 - Attractive details may be submitted by the Contractor for Engineer's approval.
 - Provide thimbles of all cable loops.
 - Peen all exposed bolts.
 - Anchor 3/8" galvanized cable at end post and end posts adjacent to electrolier openings of deck or wall joints with 1/2" dia steel socket assembly shown on page 31 of this drawing.
 - Provide 1 1/2" minimum take-up at each anchorage. Vinyl coat to match color of fence fabric.
 - Verify angle location with screen panel manufacturer prior to welding to post.

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

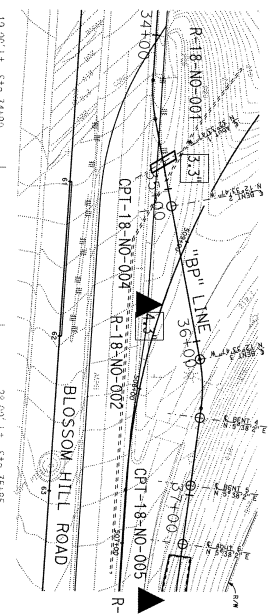
DESIGN PREPARED BY	S. Liu	DESIGN CHECKED BY	C. TOLAN	DESIGN APPROVED BY	G. KENNING
DESIGN DATE	3-5-2020	DESIGN CHECKED BY	B.G. TOLAN	DESIGN APPROVED BY	3-7-08/16
DESIGN CHECKED BY	A. VASQUEZ	DESIGN CHECKED BY	D. ROSELLINI	DESIGN APPROVED BY	R28.4/16
DESIGN CHECKED BY	F. KIAMOFRAD	DESIGN CHECKED BY	F. KIAMOFRAD	DESIGN APPROVED BY	R28.4/16

PROJECT NUMBER & PHASE: 04-1K2804
 CONTRACT NO.: 04-1K2804
 DISSEMINATION STATUS: PUBLIC CONFIDENTIAL SECRET

NOTES:

Standard Penetration Test Sampler: I.D. = 1.41"
 O.D. = 2" Modified California Sampler: I.D. = 2.5";
 O.D. = 3" Hommer Assembly: A 140 lb hommer with
 a 30" drop (Automatic Hommer)
 This LOTB sheet was prepared in accordance with
 the California Soil & Rock Logging, Classification,
 and Presentation Manual (2010)
 See California 2015 Standard Plans A10F, A10G and
 A10H for Soil and Rock Legend.
 All dimensions are in feet unless otherwise shown

BENCH MARK:
 NGS 00453 (HS 2787)
 Elev. 190.83
 4.7 miles northwest along the southern Pacific
 Company Railroad from the station at Coyote.
Vertical Datum: NAVD88
Horizontal Datum: GCS83, Zone 3, Epoch 2010.00
 In U.S. Survey Feet.



BOREHOLE LOCATION TABLE

Borehole ID	Alignment Name	Station and Offset
R-18-NO-001	"BP" Line	34+90 19' Lt.
R-18-NO-002	"BP" Line	35+85 28' Rt.
R-18-NO-003	"BP" Line	37+90 13' Rt.
CPT-18-NO-004	"BP" Line	35+85 28' Rt.
CPT-18-NO-005	"BP" Line	37+90 13' Rt.

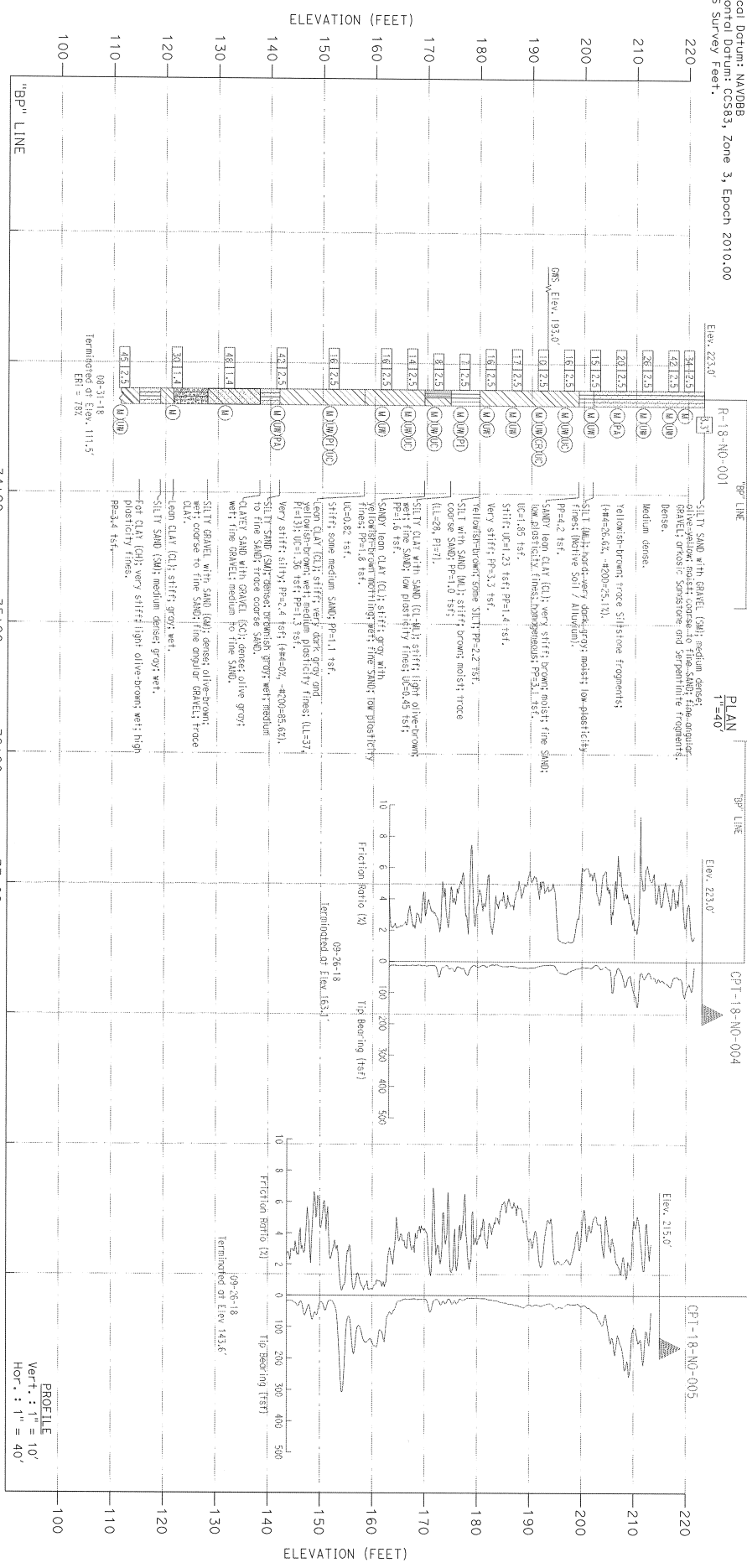
PLANS APPROVAL DATE
 March 6, 2020

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of actual copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 DATE: 10-15-19
 GARY PARKER
 No. 666
 Exp. 12/31/19

CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8TH FLOOR
 SAN JOSE, CA 95113

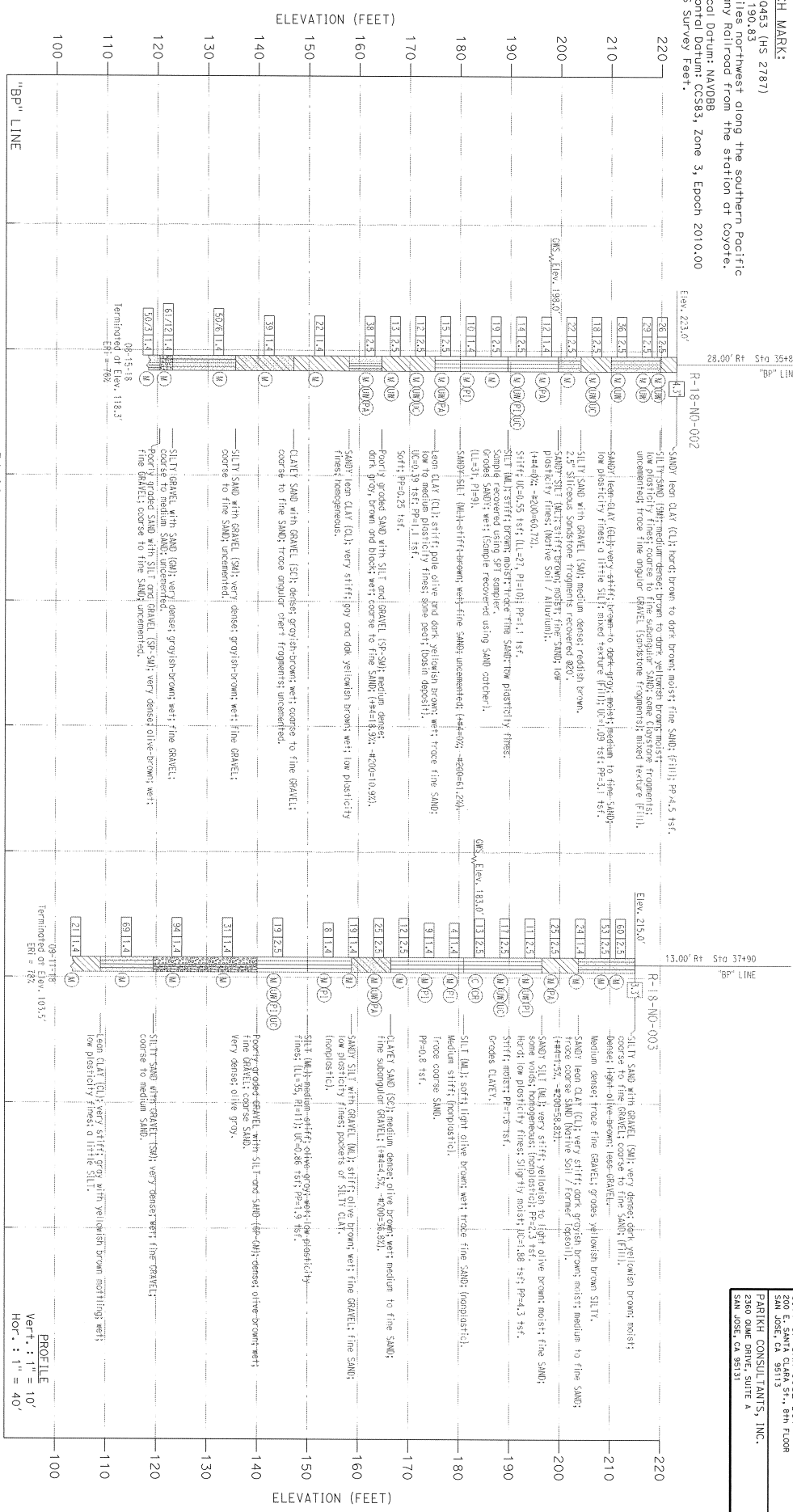
PARKH CONSULTANTS, INC.
 2360 OAK DRIVE, SUITE A
 SAN JOSE, CA 95131



DESIGN ORIGINATOR S. Liu	DRAWN BY KIM QUIYANG	FIELD INVESTIGATION BY L.S. BHANOO	DATE AUGUST 2018 TO SEPTEMBER 2018	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER ALISTON LAM	ENGINE NO. 37-616	LOG OF TEST BORINGS 1 OF 2
DATE 3-5-2020	CHECKED BY ALISTON LAM	DATE AUGUST 2018 TO SEPTEMBER 2018	PROJECT NUMBER & PHASE 04-162804	CONTRACT NO. 04-162804	POST MILES R28.61	DISSEMINATION SHEET 30	DATE 09/29/2019

NOTES:
 Standard Penetration Test Sampler 1.0" = 1.4"
 O.D. = 5" Modified California Sampler 1.0" = 2.5"
 O.D. = 5" Standard Sampler 1.0" = 1.0" ID hammer with
 a 30" drop (Automatic Hammer)
 This LOTB sheet was prepared in accordance with
 the California Soil & Rock Logging Classification,
 and Presentation Manual (2010)
 See California 2015 Standard Plans A10F, A10G and
 A10H for Soil and Rock Legend.
 All dimensions are in feet unless otherwise shown

BENCH MARK:
 NGS 00463 (HS 2787)
 Elev. 190.83
 4.1 miles northwest along the southern Pacific
 Company Railroad from the station of Coyote,
 Vertical Datum: NAVD83
 Horizontal Datum: CGS83, Zone 3, Epoch 2010.00
 In U.S. Survey Feet.



BORING LOCATION TABLE

Hole ID	Alignment	Name	Station and Offset
R-18-N0-001	"bp" Line		34+90.13 L+.
R-18-N0-002	"bp" Line		35+85.28 R+.
R-18-N0-003	"bp" Line		37+90.13 R+.
CPT-18-N0-004	"bp" Line		35+85.28 R+.
CPT-18-N0-005	"bp" Line		37+90.13 R+.

REGISTERED PROFESSIONAL
 DATE: 10-15-19
 GARY PARKIN
 No. 666
 Exp. 12/31/19
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA

CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8TH FLOOR
 SAN JOSE, CA 95113

PARKIN CONSULTANTS, INC.
 2360 OMAHA DRIVE, SUITE A
 SAN JOSE, CA 95131

March 6, 2020
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 shall not be responsible for the accuracy or
 completeness of these copies of this plan sheet.

DIST. COUNTY ROUTE POST MILEAGE SHEET TOTAL
 04 SCI 101 R28.4/828.9 323 345

DESIGN OVERSIGHT
 3-5-2020
 DESIGNER: S. Liu
 CHECKED BY: KIM OUYANG
 ALISTON LAW

FIELD INVESTIGATION BY:
 L.S. BHANOO
 DATE: AUGUST 2018 TO SEPTEMBER 2018

PREPARED FOR THE
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER
 ALISTON LAW

LOG OF TEST BORINGS 2 OF 2

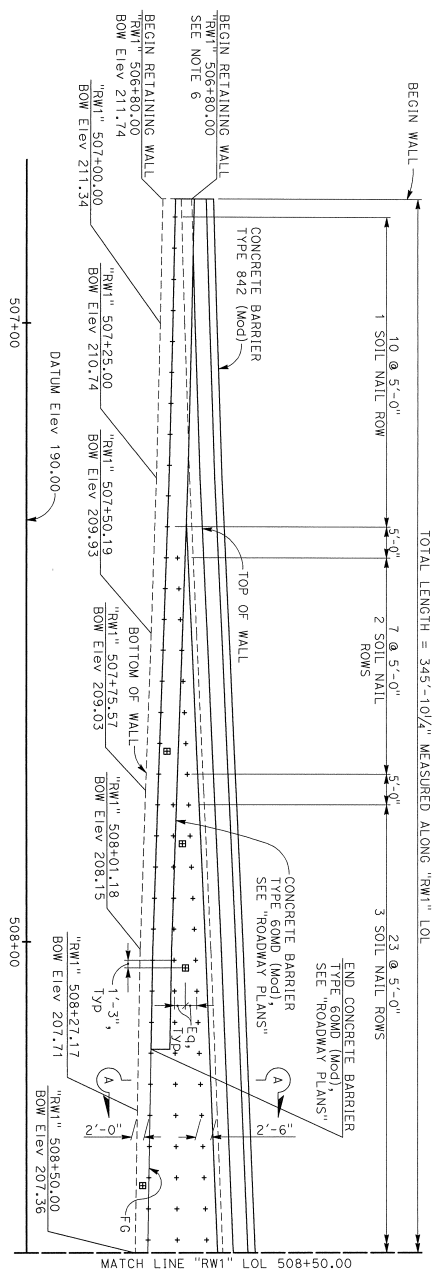
UNIT:
 PROJECT NUMBER & PHASE: 04160002241 CONTRACT NO.: 04-1K2804

PROPOSED SCALE: 1/4" = 10'
 ORIGINAL SCALE: 1/4" = 10' INCHES
 PER AASHTO PLAN 101

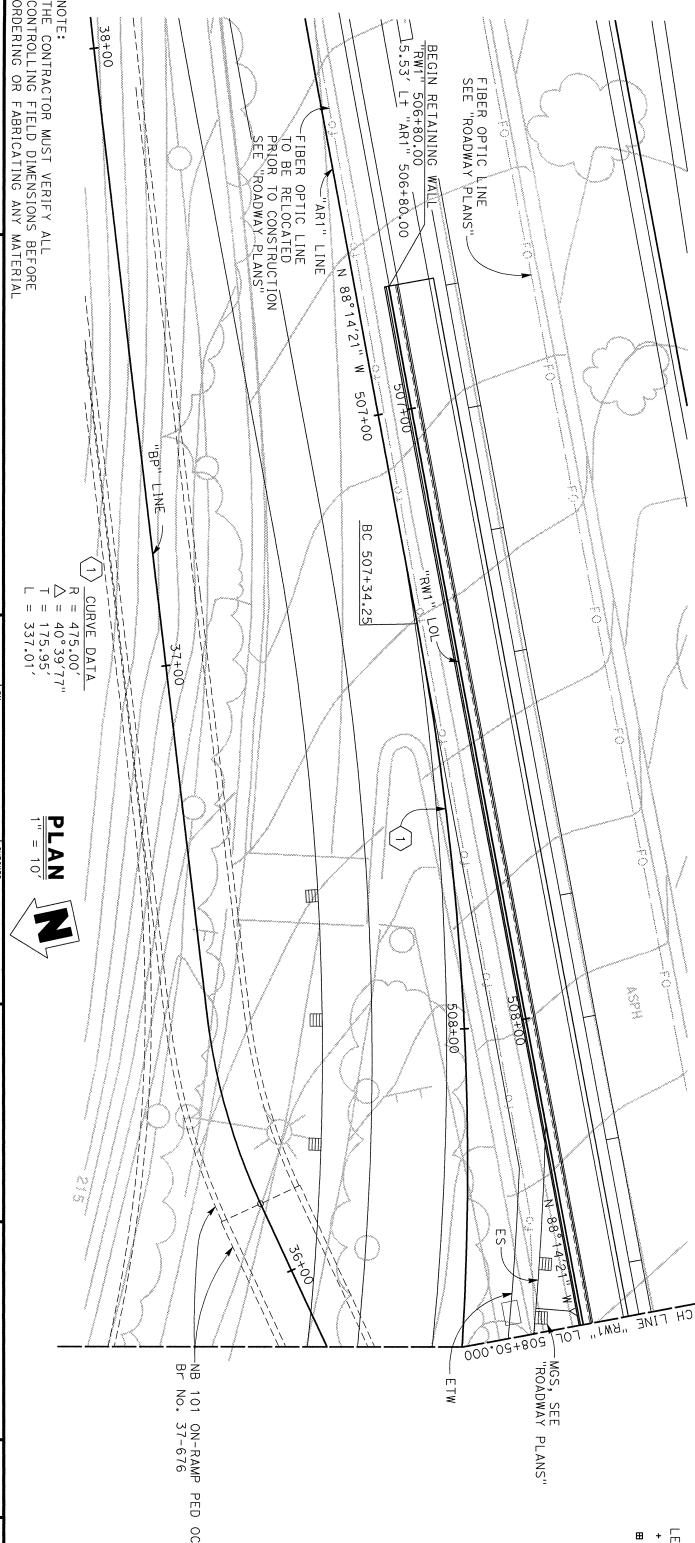
DATE:
 3/5/2020

SHEET
 31 OF 31

March 8, 2020
 REGISTERED STRUCTURAL ENGINEER DATE
 PLANS APPROVAL DATE
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 CITY OF SAN JOSE DOI
 200 E. SANTA CLARA ST., 8TH FLOOR
 SAN JOSE, CA 95131
 BIGGS CARDOSA ASSOCIATES INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95128



DEVELOPED ELEVATION
 1" = 10'



PLAN
 1" = 10'

SOIL NAIL DATA TABLE

Number of Rows	Embedment of Soil Nails	Length (ft)
1	24	24
2	25	25
3	33	33
4	37	37

- NOTES:
- Maximum vertical spacing of soil nails = 5'-0".
 - Minimum vertical spacing of soil nails = 2'-0".
 - Soil nail horizontal spacing measured along "RW1" LOL, top and bottom of wall profiles are linear between points shown.
 - Maximum excavation lift height = 5'-0".
 - For "SECTION A-A", see "SOIL NAIL WALL DETAILS No. 1" sheet.
 - SEE FG elevation on "Roadway Plans", for top of wall elevations.
- LEGEND:
- Indicates Soil Nail Assembly Location
 - Indicates Proof Test Soil Nail Location.
 - Location may be adjusted by the Engineer.

NOTE: THE CONTRACTOR MUST VERIFY ALL THE CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

S. Liu
 3-5-2020

DESIGN	BY R. YAMANE	CHECKED D. ROZFORA	DESIGNED G. KENNING
DETAILS	BY R. YAMANE	CHECKED A. ALIATI	PROJECT ENGINEER
QUANTITIES	BY K. HORWALD	CHECKED S. HABIBI	

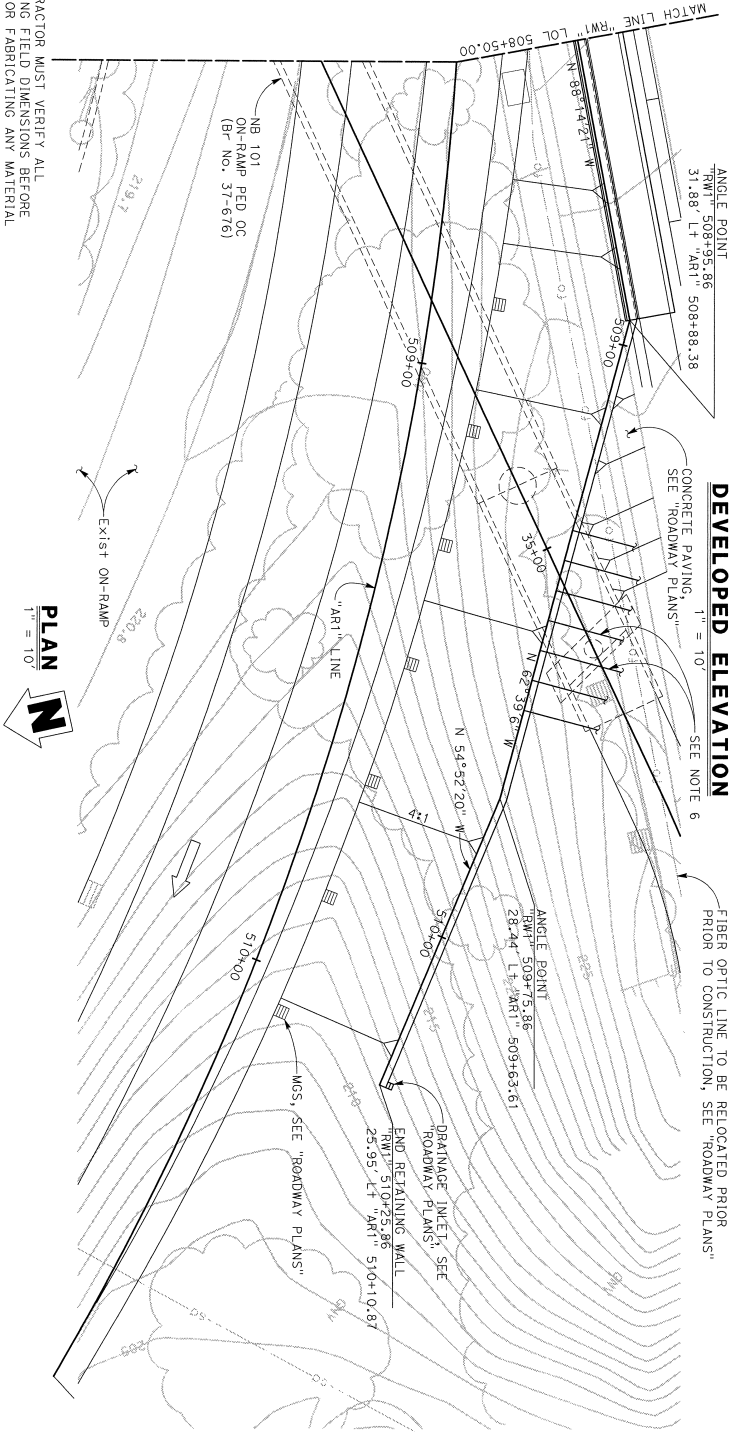
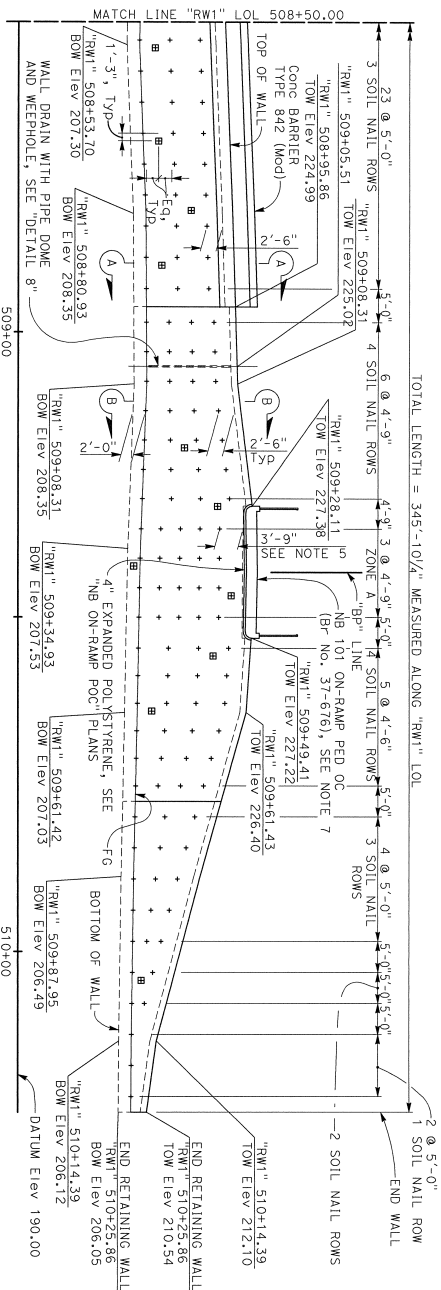
PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

UNIT: 0000
 PROJECT NUMBER & PHASE: 04160002241 CONTRACT NO.: 04-1K2804

REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 No. 12/23/20
 REGISTERED STRUCTURAL ENGINEER
 No. 12731/20

RETAINING WALL NO. 1-SOIL NAIL WALL
SOIL NAIL LAYOUT NO. 1

DATE PLOTTED => #DATE TIME PLOTTED => #TIME



DEVELOPED ELEVATION
1" = 10'
SEE NOTE 6

PLAN
1" = 10'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

DESIGN OVERSIGHT
S. Liu
3-5-2020

DESIGN BY: R. YAMANE
DETAILS BY: R. YAMANE
QUANTITIES BY: K. HORWALD

CHECKED BY: D. ROZPORKA
CHECKED BY: ALI ALIATI
CHECKED BY: S. HARBIBI

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER: G. KENNING
PROJECT NUMBER & PHASE: 04180002241

REGISTERED PROFESSIONAL ENGINEER
No. 2659
Exp. 12/31/20
CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95133
BIGGS CARDOSA ASSOCIATES INC.
885 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

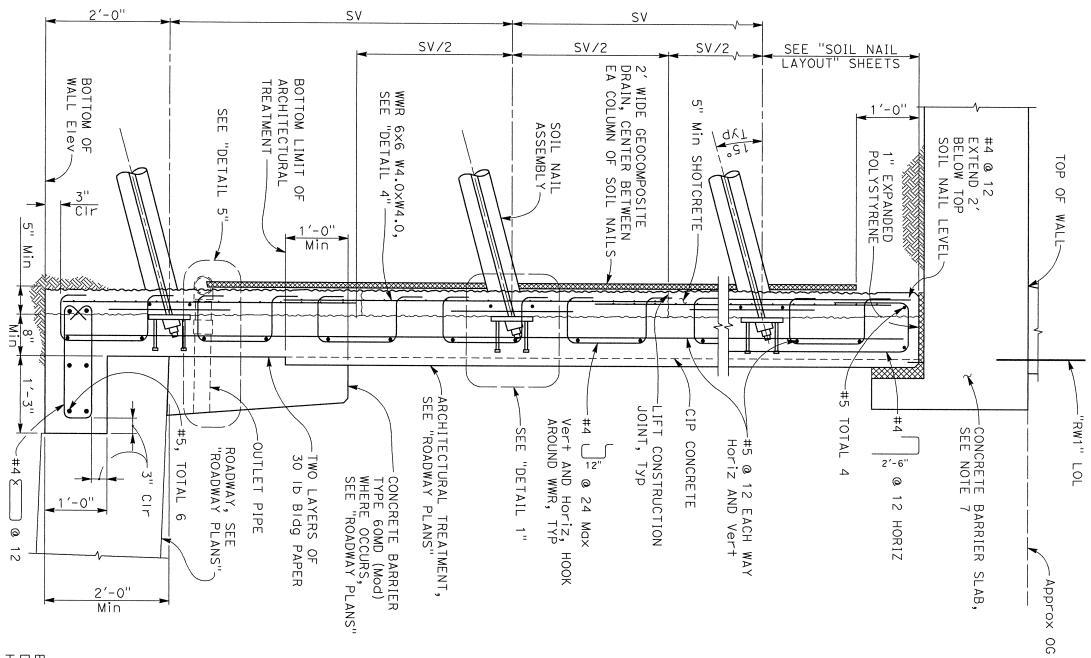
REGISTERED PROFESSIONAL ENGINEER
No. 2659
Exp. 12/31/20
CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95133
BIGGS CARDOSA ASSOCIATES INC.
885 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

REGISTERED PROFESSIONAL ENGINEER
No. 2659
Exp. 12/31/20
CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95133
BIGGS CARDOSA ASSOCIATES INC.
885 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

SOIL NAIL DATA TABLE

Number of Rows	Embedment of Soil Nails	Length (ft)
1	24	24
2	25	33
3	33	33
4	37	37
ZONE A (5)		
		37

- LEGEND:
- * Indicates Soil Nail Assembly Location
 - Indicates Proof Test Soil Nail Location. Location may be adjusted by the Engineer.
- NOTES:
1. Maximum vertical spacing of soil nails = 5'-0". Minimum vertical spacing of soil nails = 2'-0".
 2. Soil nail horizontal spacing measured along "RW1" LOL, points and bottom of wall profiles are linear between points shown.
 3. Cable Railing not shown for clarity.
 4. Under NB 101 On-Ramp PED OC edge distance from top of wall to top nail = 3'-9".
 5. Maximum 10' horizontal skew to provide clearance to CIDH at Abutment 1 of NB 101 On-Ramp PED OC.
 6. Contractor must field verify location of CIDH pile foundation prior to drilling soil nails.
 7. For "SECTION A-A", see "SOIL NAIL WALL DETAILS No. 1" sheet.
 8. For "SECTION B-B", see "SOIL NAIL WALL DETAILS No. 2" sheet.
 9. For "DETAIL 8", see "SOIL NAIL WALL DRAIN DETAILS" sheet.
 10. Maximum excavation Lift Height = 5'-0".



SECTION A-A
 "RW1" SWS "506+80.00 TO 508+95.86"
 1" = 1'-0"

NOTE:
 THE CONTRACTOR MUST VERIFY ALL
 THE CONTROLLING FIELD DIMENSIONS BEFORE
 ORDERING OR FABRICATING ANY MATERIAL

S. Liu
 3-5-2020

REVISION PRESENT
 3-5-2020
 DATE OF SHEET

DESIGN BY: R. YAMANE
 CHECKED BY: D. ROZPORKA
 QUANTITIES BY: K. HORWALD

DESIGNED FOR THE
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

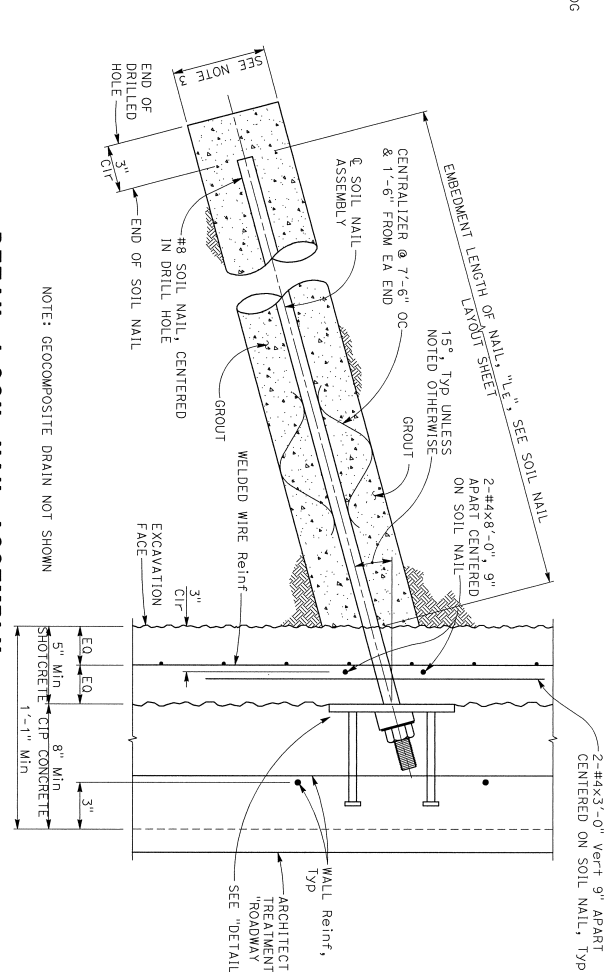
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UNIT: 0000

CONTRACT NO.: 04-1K2304

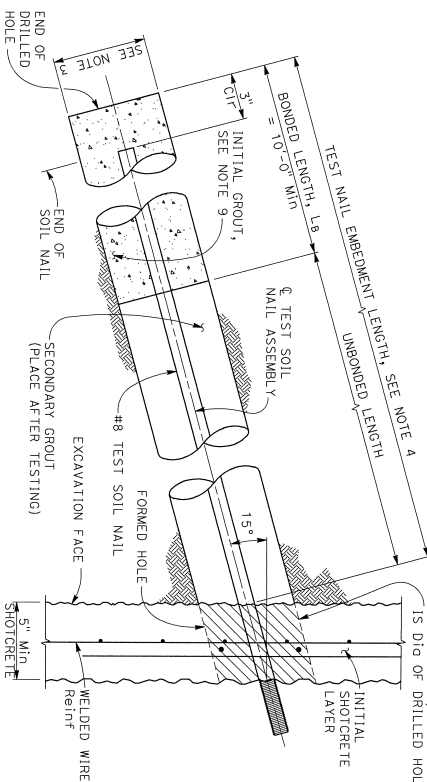
REINFORCING PRINTS BEARING
 EARLIER REVISION DATES

USERNAME => #USER DATE PLOTTED => #DATE TIME PLOTTED => #TIME



DETAIL 1-SOIL NAIL ASSEMBLY
 3" = 1'-0"

NOTE: GEOCOMPOSITE DRAIN NOT SHOWN



DETAIL 2-TEST SOIL NAIL ASSEMBLY
 3" = 1'-0"

NOTE: PROOF TEST SOIL NAIL SHOWN, VERIFICATION SOIL NAIL SIMILAR.

BLOCKOUT AS REQUIRED FOR TESTING, MIN SIZE IS 15 DIA OF DRILLED HOLE

- NOTES:
- For vert and horiz soil nail spacing, see "SOIL NAIL LAYOUT" sheets.
 - For "DETAIL 3" and "DETAIL 4", see "SOIL NAIL WALL DETAILS No. 2" sheet.
 - The diameter of drilled hole will be determined by contractor. Min drilled hole diameter is 6".
 - The test nail embedment length must be equal to 3/4 the embedment length, L_e, of production soil nail assemblies, but not less than 12'-0".
 - The total length of the test nail assembly equals the embedment length plus the length required for jacking equipment.
 - For location of proof test nail see "SOIL NAIL LAYOUT" sheets. Additional proof test nails will be installed and tested per special provisions.
 - For concrete barrier slab details, see "CONCRETE BARRIER SLAB DETAILS" sheet.
 - All vertical reinforcement must extend across, iff limit's into lower lift end must utilize service splices or lap splices. Splices need not be staggered.
 - Finished grout surface to be normal to bar of test nail.
 - Vertical spacing of soil nails must be equal.
 - For "DETAIL 5", see "SOIL NAIL WALL DRAIN DETAILS" sheet.

LEGEND:
 SV Vertical spacing of soil nail assemblies

PREPARED FOR THE
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY: R. YAMANE
 CHECKED BY: D. ROZPORKA
 QUANTITIES BY: K. HORWALD

USERNAME => #USER DATE PLOTTED => #DATE TIME PLOTTED => #TIME

DIST COUNTY ROUTE POST MILES TOTAL PROJECT NO SHEET NO TOTAL SHEETS

04 SCI 101 R28.4/R28.9 328 345

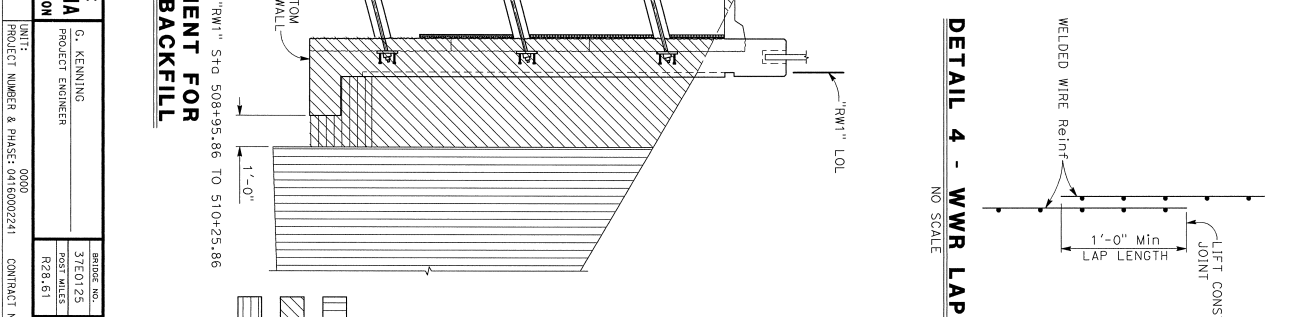
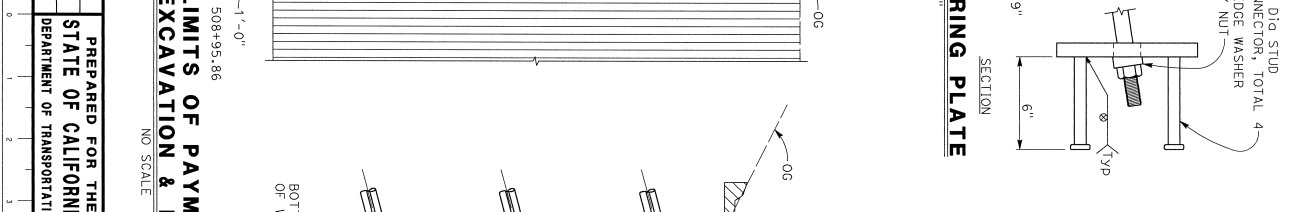
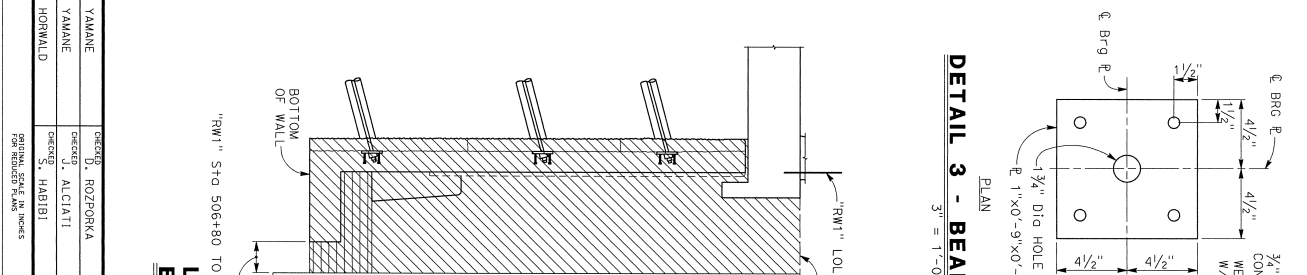
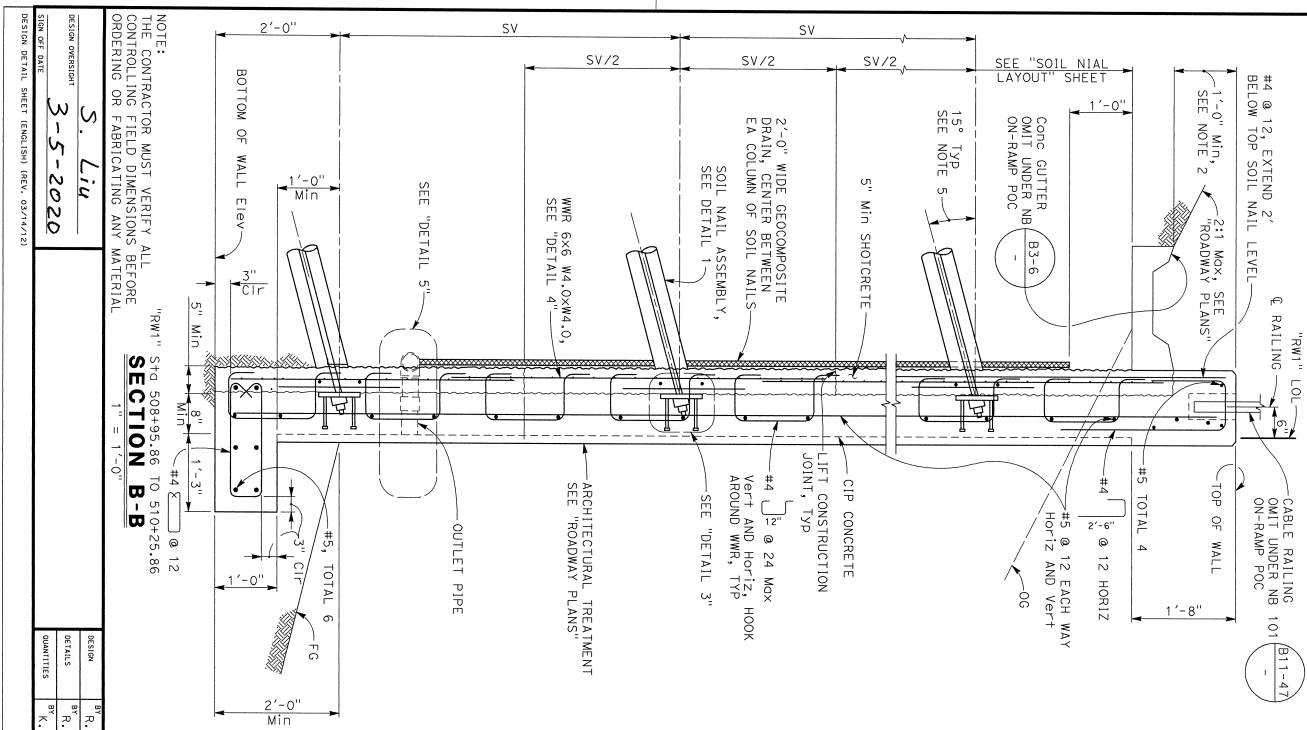
REGISTERED PROFESSIONAL ENGINEER
 No. 2639 Exp. 12/21/20
 STATE OF CALIFORNIA
 DIVISION OF CONTRACTORS

March 6, 2020
 REGISTERED STRUCTURAL ENGINEER DATE
 Plans Approval Date

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CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 4TH FLOOR
 SAN JOSE, CA 95113

BRIGGS KARPOSA ASSOCIATES INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126



LEGEND:
SV Indicates Vertical Spacing of Soil Nail Assemblies

	ROADWAY EXCAVATION
	STRUCTURE EXCAVATION (SOIL NAIL WALL)
	STRUCTURE BACKFILL (SOIL NAIL WALL)

NOTES:

- For vert and horiz soil nail spacing, see "SOIL NAIL LAYOUT" sheets.
- Concrete gutter elevation must be adjusted to drain towards inlets. See "ROADWAY PLANS" for inlet locations.
- All vertical reinforcement must extend across lift limits into the lower lift and must utilize service splices or lap splices. Splices need not be staggered.
- For "DETAIL 1", see "SOIL NAIL WALL DETAILS No. 1" sheet.
- Nail inclination = 20° for all soil nails under NB 101 On-Ramp POC.
- Vertical spacing of soil nails must be equal.
- For "DETAIL 5", see "SOIL WALL DRAIN DETAILS" sheet.

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DESIGNER	PROJECT ENGINEER	DATE	NO.
G. KENNING	3/7/2020	0000	1
CHECKED	PROJECT ENGINEER	CONTRACT NO.	NO.
D. ROZFORNA	R28.615	04-1K2804	6
R. YAMANE	R28.615		10
K. HORWALD			

RETAINING WALL No. 1-SOIL NAIL WALL SOIL NAIL WALL DETAILS No. 2

REGISTERED PROFESSIONAL ENGINEER
No. 2839
Exp. 12/31/20
March 6, 2020
PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of assumed data of this plan sheet.
CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113
BIOSS CARROSA ASSOCIATES INC.
885 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

DESIGN DATA

DESIGN: AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments.

② **WS-33 psf on sound wall**

F_v : 54 kips on barrier

E_{OC} : $K_n = 0.12$

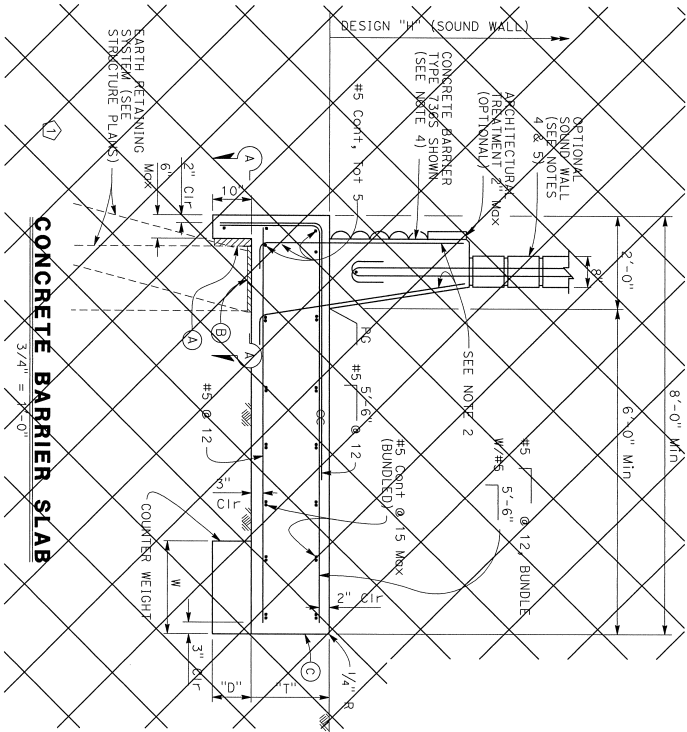
$K_y = 0.0$

$f'_c = 3600$ psi

$f_y = 60$ ksi

$n = 8$

REINFORCED CONCRETE:



BARRIER SLAB DIMENSIONS

SECTION "H" OF SOUND WALL	NO.	1/2'-4"	1'-4"-4"	6'-2"
BARRIER TYPE	732	36	S 176	S 1736
T	732	36	S 176	S 1736
W	742	36	S 176	S 1736
D	742	36	S 176	S 1736
		1'-8"	1'-2"	2'-0"
		N/A	N/A	N/A
		N/A	N/A	2'-0"
		N/A	N/A	0'-9"

BRIDGE STANDARD DETAILS

FILE NO.	X512-080
ISSUE DATE	JULY 2014
APPROVAL DATE	

MODIFICATIONS SHOWN:

①	DETAIL NOT APPLICABLE
②	NOTE DELETED
③	DETAIL MODIFIED
④	NOTE ADDED

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

UNIT:	PROJECT NUMBER & PHASE:
1	2
3	

DIVISION OF ENGINEERING SERVICES

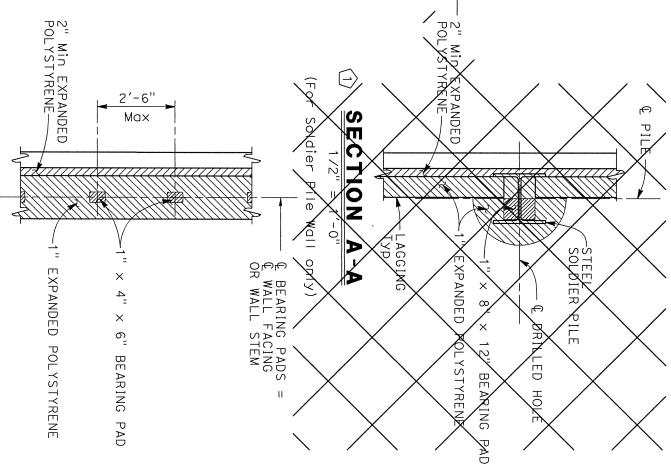
ISSUE NO.	37E0123
ISS. DATE	128-15
CONTRACT NO.:	

RETAINING WALL NO. 1-SOIL NAIL WALL CONCRETE BARRIER SLAB DETAILS

DESIGNED BY	CHK'D BY
DATE	DATE
SCALE	SCALE
8	10

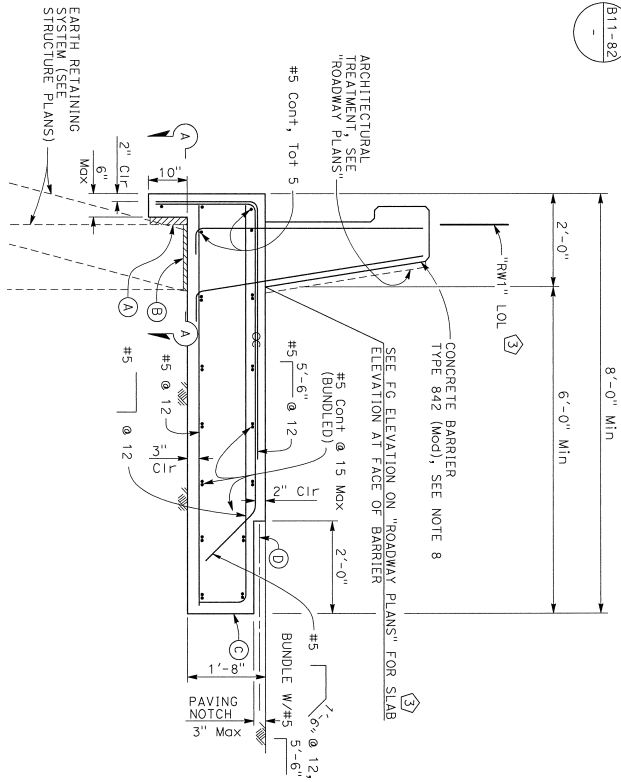
NOTES:

- Reference to reinforcing steel in concrete barrier to be "1".
- Not all barrier reinforcement shown. No expansion joints in concrete barrier or barrier slab within wall limits.
- Specify concrete barrier to be used as shown elsewhere in project plans.
- Sound wall not permitted on MSE walls unless approved by a Civil Site Foundation (see Mechanically Stabilized Earth - Detail No. 5 - sheet).
- Reinforcing steel to be shown when indicated in Project Plans. Refer to Standard Plans B11-7 and B11-77 for anchorage details to top of concrete barrier.
- Reinforcing steel to be shown when indicated in Project Plans. Refer to Standard Plans B11-7 and B11-77 for anchorage details to top of concrete barrier.
- Minimum slab length: 40 ft
- For details not shown, see RSP B11-81 and RSP B11-82



SECTION A-A
1/2" = 1'-0"

(For all other Earth Retaining Systems)



CONCRETE BARRIER SLAB WITH PAVING NOTCH
3/4" = 1'-0"

NOTES:

- 2" Min Expanded polystyrene
 - 1" Expanded polystyrene on MSE and concrete stem walls. See SECTION A-A for Solder Headers.
 - Contact joint
 - 4'-0" wide pavement reinforcing fabric
- CC Indicates bundled bars.

SPECIAL DETAILS

DIST.	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	R28.4/R28.9	331	345

REGISTERED PROFESSIONAL ENGINEER
 No. 2639
 Exp. 12/31/20
 STATE OF CALIFORNIA
 CIVIL ENGINEER

March 6, 2020

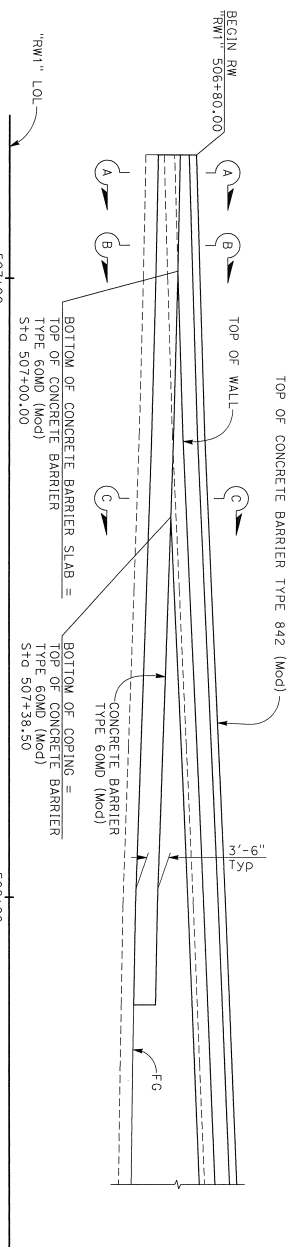
PLANS APPROVAL DATE

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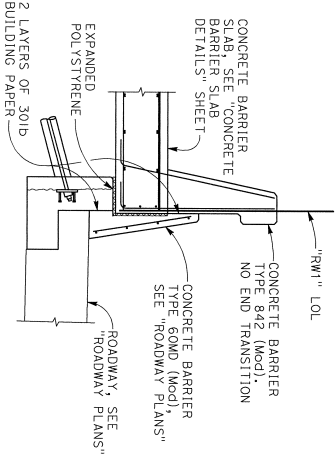
The Registered Civil Engineer for this project is responsible for the selection and proper application of the component design and any modifications shown.

CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95113

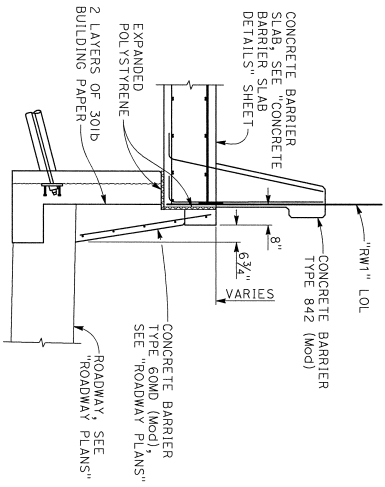
BLIGGS CARROSA ASSOCIATES INC.
 885 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126



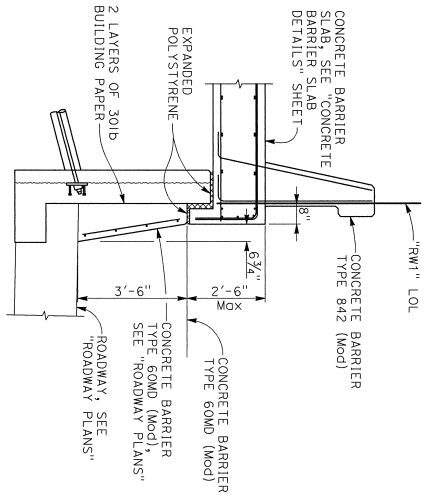
ELEVATION: CONCRETE BARRIER TYPE 60MD (Mod) TRANSITION



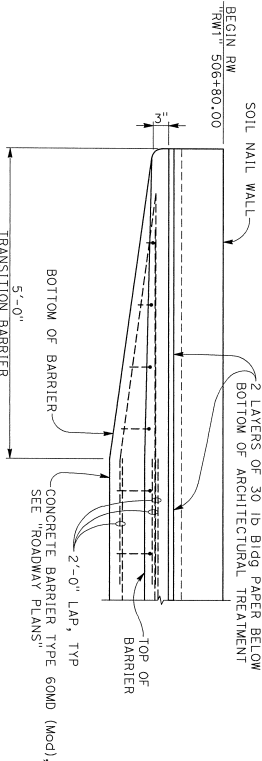
SECTION A-A
1/2" = 1'-0"



SECTION B-B
1/2" = 1'-0"



SECTION C-C
1/2" = 1'-0"



PLAN
1" = 1'-0"

NOTE:
THE CONTRACTOR MUST VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT
S. Liu
3-5-2020

DESIGN DETAIL SHEET (ENGLISH REV. 02/14/13)

DESIGN	BY	CHECKED
DETAILS	R. YAMANE	D. ROZFORKA
QUANTITIES	R. YAMANE	CHECKED A. ALIATI
	K. HORWALD	CHECKED S. HABIBI

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

UNIT:	0000
PROJECT NUMBER & PHASE:	041B0002241

ISSUED NO.	37E0125
POST DATE	12/8/13

RETAINING WALL NO. 1-SOIL NAIL WALL
CONCRETE BARRIER TRANSITION

SECTION DATE	12/8/13
SHEET	9
OF	10

DIST COUNTY ROUTE POST MILES SHEET TOTALS
04 SCI 101 1207.20 332 345

Markus Williams 120720
REGISTERED STRUCTURAL ENGINEER DATE

March 8, 2020
PLANS APPROVAL DATE

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CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95133

BIGGS CARDOZA ASSOCIATES, INC.
885 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

REGISTERED PROFESSIONAL ENGINEER
No. 2639
S. No. 12/21/20
SITE SPECIFIC

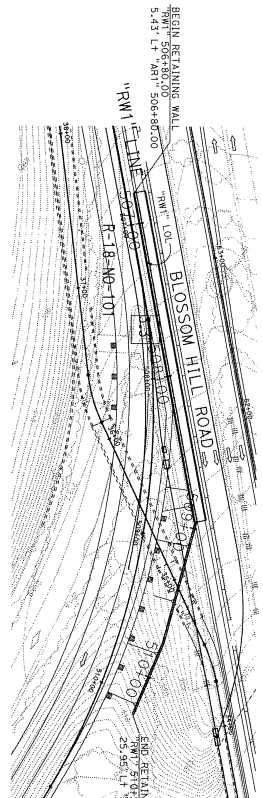
NOTE:
For concrete barrier slab details not noted,
see "CONCRETE BARRIER SLAB DETAILS" sheet

NOTES:

Standard Penetration Test Sampler: I.D. = 1.4", O.D. = 3" (Automatic Hammer)
 Standard Penetration Test Sampler: I.D. = 2.375", O.D. = 3" (Automatic Hammer)
 a. 30" drop (Automatic Hammer)
 This LOTB sheet was prepared in accordance with the California Soil & Rock Logging, Classification, and Presentation Manual (2010)
 See California 2015 Standard Plans A10F, A10G and A10H for Soil and Rock Legend.
 All dimensions are in feet unless otherwise shown

BENCH MARK:

NCS 00453 (HS 2787)
 Elev. 130.83
 4.1 miles northwest along the southern Pacific Company Railroad from the station of Coyote.
 Vertical Datum: NAVD83
 Horizontal Datum: CCS83, Zone 3, Epoch 2010.00
 In U.S. Survey Feet.



BOREHOLE LOCATION TABLE

Hole ID	Alignment Name	Station and Offset
R-18-NO-101	"RW1" Line	507+70.9' L+

DIST	COUNTY	ROUTE	POST MILEAGE	SHEET TOTAL
04	SCI	101	R28.4/R28.9	333/345

10-15-19

REGISTERED PROFESSIONAL
 DATE: 10-15-19
 No. 127179
 Exp. 12/31/25
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER

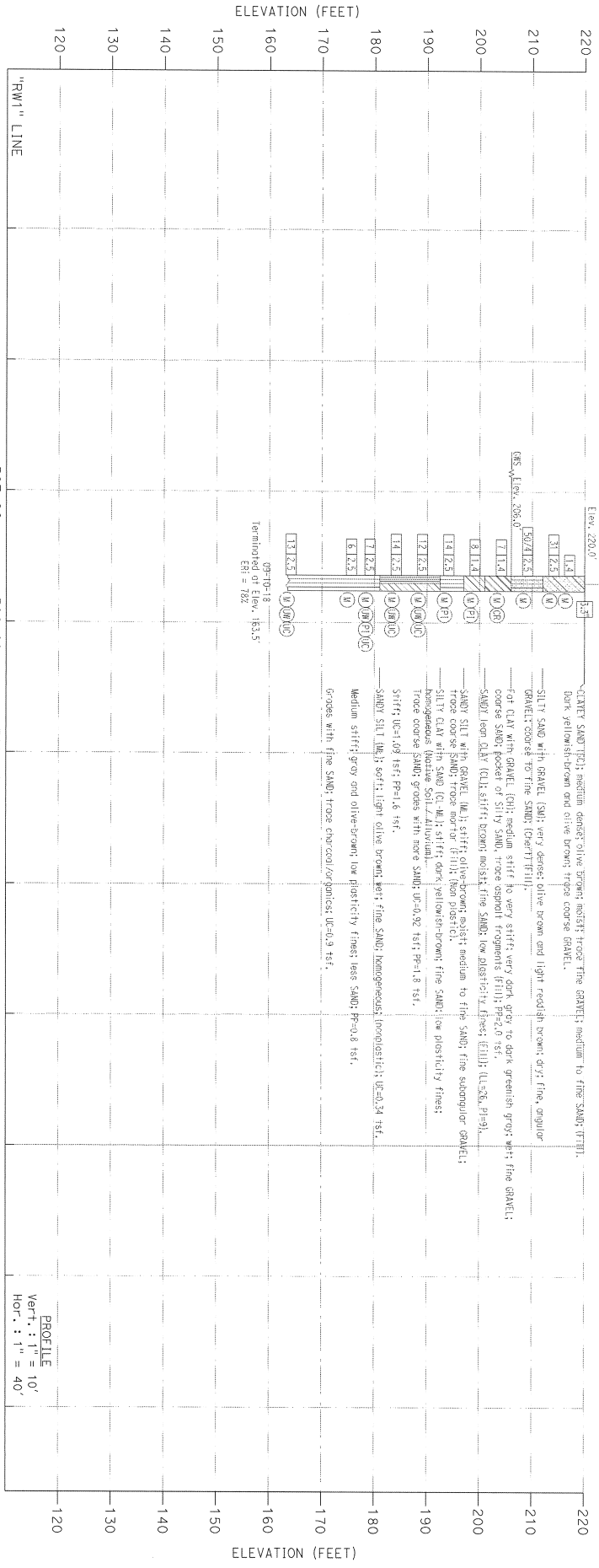
March 6, 2020

PLANS APPROVAL DATE

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CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8TH FLOOR
 SAN JOSE, CA 95113

PARKH CONSULTANTS, INC.
 2360 DUME DRIVE, SUITE A
 SAN JOSE, CA 95131

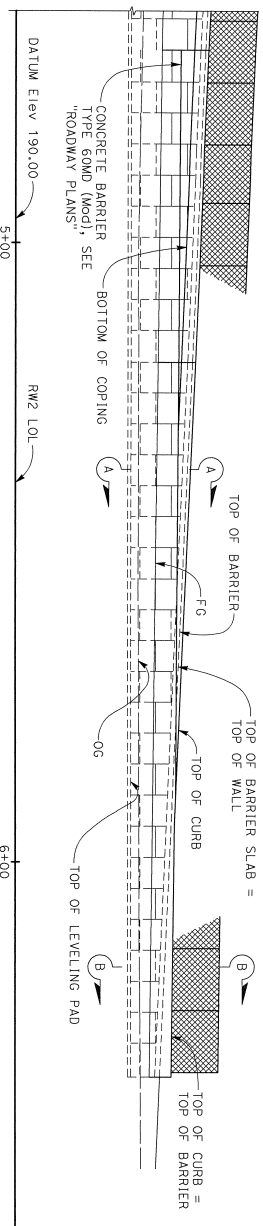


DESIGN OVERSIGHT	3-5-2020	DRAWN BY	KIM OUYANG	CHECKED BY	ALISTON LAW
DATE OF DATE	3-5-2020	DESIGNED BY	L.S. SHANGOO	FIELD INVESTIGATION BY	DATE: AUGUST 2018 TO SEPTEMBER 2018
55 GEOTECHNICAL LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 03/14/12)		PREPARED FOR THE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		
		PROJECT ENGINEER	ALISTON LAW		
		ENGINE NO.	37E0125		
		POST MILE	R28.4/28.9		
		CONTRACT NO.	04-1K2804		
		DISSEMINATION DATE	10/15/19		
		REVISION DATE	10/15/19		
		SHEET	10		
		TOTAL	10		

RETAINING WALL NO. 1-SOIL NAIL WALL

LOG OF TEST BORINGS 1 OF 1

PROFILE
 Vert. : 1" = 10'
 Hor. : 1" = 40'



ELEVATION CONCRETE BARRIER TYPE 60MD (Mod) TRANSITION
1" = 10'

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	337 / 345

REGISTERED STRUCTURAL ENGINEER DATE

March 6, 2020

City of San Jose DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113

BIGGS GARROSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

REGISTERED PROFESSIONAL ENGINEER
No. 2639
Exp. 12/31/20

March 6, 2020

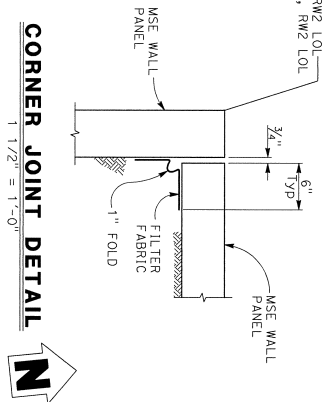
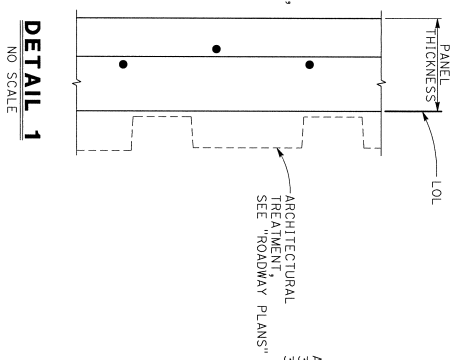
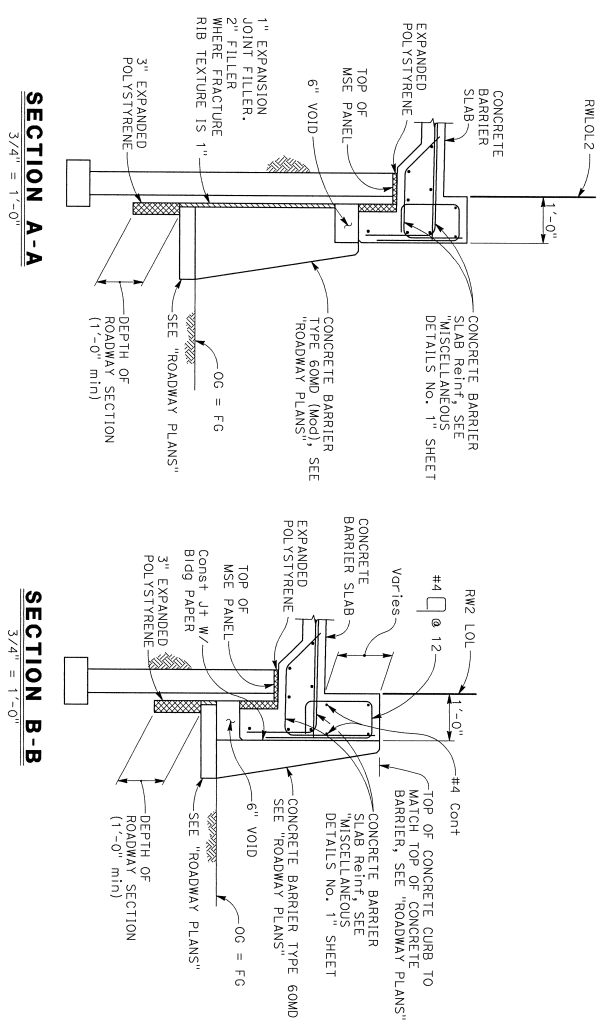
PLANS APPROVAL DATE

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CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8TH FLOOR
SAN JOSE, CA 95113

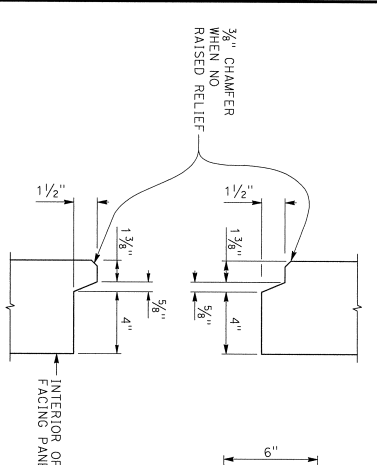
BIGGS GARROSA ASSOCIATES INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95126

NOTE:
For concrete barrier slab details not noted, see "MISCELLANEOUS DETAILS No. 1" sheet

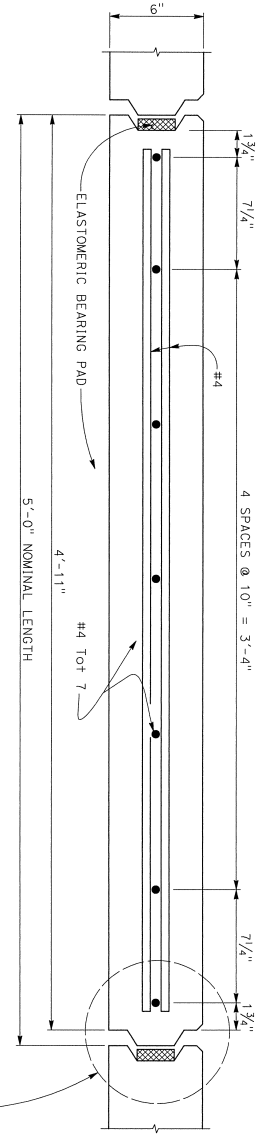


NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN OVERSIGHT	S. Liu		DESIGN	G. TOLAN		DESIGNED	P. CONGIDI		PREPARED FOR THE	STATE OF CALIFORNIA	
DATE	3-5-2020		DETAILS	B.G. TOLAN		CHECKED	F. KLANOFFRAD		PROJECT ENGINEER	G. KENNING	
DESIGN DETAIL SHEET (ENGLISH) (REV. 02/14/12)			QUANTITIES	A. VASQUEZ		GENERATED			PROJECT NUMBER & PHASE:	04-1K2804	
									CONTRACT NO.:	04-1K2804	
									DESIGNED PRINTING DRAWING	DATE	
									SHEET	4	
									OF	12	

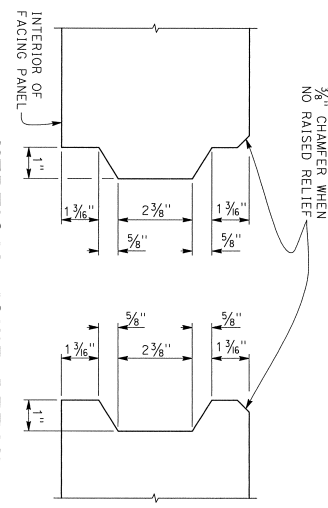


HORIZONTAL JOINT DETAIL
3" = 1'-0"

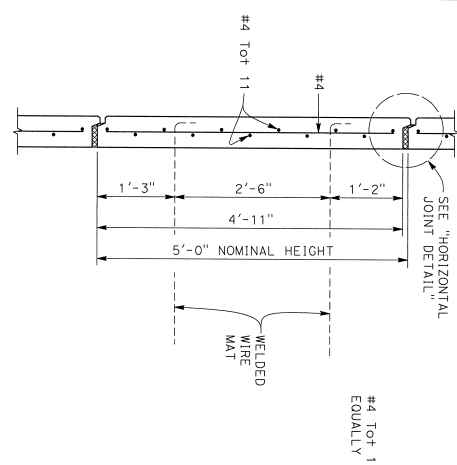


PLAN - FACING PANEL
3" = 1'-0"

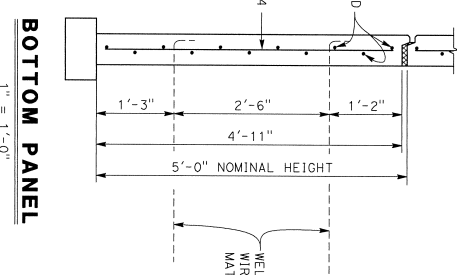
- NOTES:
1. Architectural treatment not shown and not included in 6 panel thickness
 2. Place reinforced elastomeric bearing pads in all of the panel joints between the panels. Place one in each vertical joint where the horizontal joints intersect. Place two per panel in each horizontal joint:
 $\frac{3}{4}$ " x $2\frac{3}{8}$ " x 6" for vertical joints
 $\frac{3}{4}$ " x 4" x 6" for horizontal joints
 3. Band a strip of filter fabric, 1'-0" wide, over the full length of all panel joints
 4. Top layer of welded wire mats attached parallel to top of panel when top of wall is angled or curved as shown elsewhere in "STRUCTURE PLANS"
 5. Eliminate mid level mat when closer than 6" to top mat, continue variable dimension between remaining mats
 6. For "CORNER JOINT DETAIL" see "MISCELLANEOUS DETAILS No. 2" sheet.



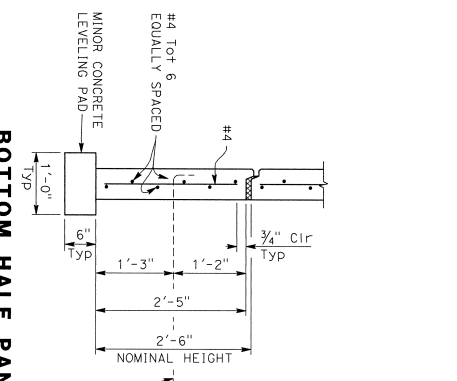
VERTICAL JOINT DETAIL
6" = 1'-0"



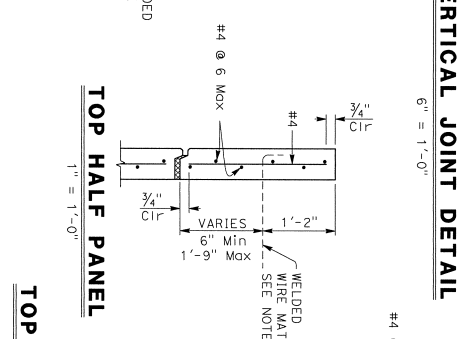
INTERMEDIATE PANEL
1" = 1'-0"



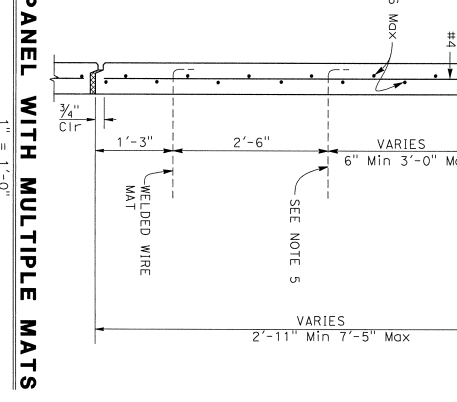
BOTTOM PANEL
1" = 1'-0"



BOTTOM HALF PANEL
1" = 1'-0"



TOP HALF PANEL
1" = 1'-0"



TOP PANEL WITH MULTIPLE MATS
1" = 1'-0"

SPECIAL DETAILS
RETAINING WALL No. 2
MECHANICALLY STABILIZED EMBANKMENT
DETAILS No. 1

BRIDGE STANDARD DETAILS KS13-020-1 TITLE NO. JULY 2014 APPROVAL DATE Bridge Plans have been prepared under the authority of the Department of Transportation, State of California.		MODIFICATIONS SHOWN NOTE ADDED REVISIONS: 1 DATE PLOTTED: 8/14/16		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES UNIT: 0000 PROJECT NUMBER & PHASE: 041B0002241 CONTRACT NO.: 04-1K2804		REGISTERED PROFESSIONAL ENGINEER M. THOMAS MATTHEWS No. 2639 E-09-12/31/10 REGISTERED STRUCTURAL ENGINEER DATE March 8, 2020 The State of California, in the office of public notary, is responsible for the accuracy of the completeness of scanned copies of this plan sheet. The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown. CITY OF SAN JOSE DOT 200 E. SANTA CLARA ST., 8TH FLOOR SAN JOSE, CA 95113 BIGGS CARROSA ASSOCIATES, INC. 885 THE ALAMEDA SAN JOSE, CALIFORNIA 95126	
REVISIONS: 1 DATE PLOTTED: 8/14/16	REVISIONS: 1 DATE PLOTTED: 8/14/16	REVISIONS: 1 DATE PLOTTED: 8/14/16	REVISIONS: 1 DATE PLOTTED: 8/14/16	REVISIONS: 1 DATE PLOTTED: 8/14/16	REVISIONS: 1 DATE PLOTTED: 8/14/16	REVISIONS: 1 DATE PLOTTED: 8/14/16	REVISIONS: 1 DATE PLOTTED: 8/14/16

GENERAL NOTES
LOAD & RESISTANCE FACTOR DESIGN

② MSE WALL

DESIGN: ASHTO LRFD Bridge Design Specifications, 6th ②
Edition with California Amendments

LIVE LOAD: 90 lb/ft² at Location A ②
120 lb/ft² at Location A ②

DEAD LOAD: Surcharge = 120 lb/ft² at Location A ②

SOIL PARAMETERS:

Internal design $\phi = 34^\circ$, $\gamma = 120$ lb/ft³
External design ϕ (Retained Backfill) = 34° , $\gamma = 125$ lb/ft³ ②
 $K_h = 0.22$ ②

PRECAST CONCRETE PANELS:

$f'_c = 4,000$ psi (Concrete compressive strength at 28 days)
 $f_y = 60,000$ psi (Yield strength of reinforcement)

SOIL REINFORCEMENT:

Welded wire mats: $f_y = 65,000$ psi (Yield strength)
Coupler: $f_y = 36,000$ psi (Yield strength)

Corrosion rate = 1.1 mils/year

REINFORCED CONCRETE:

$f'_c = 3,600$ psi, except as noted

(Concrete compressive strength at 28 days)

$f_y = 60,000$ psi (Yield strength of reinforcement)

All reinforcement in barrier slab and wall coping shall be epoxy-coated precast-ribbed reinforcement with purple coating.

SEISMIC LOAD: Peak Ground Acceleration = 0.648g

NOTE: For Location A, see "GENERAL PLAN No. 1" sheet. ②

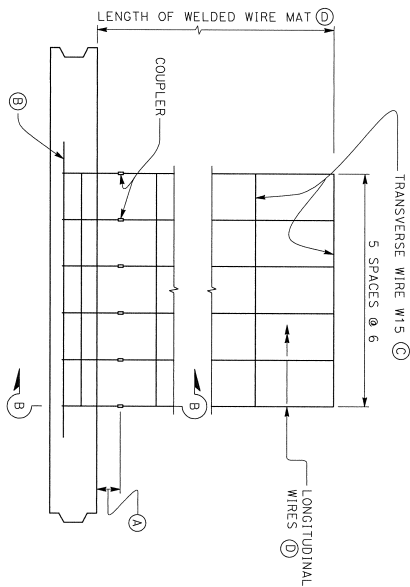
VISUAL SCREEN

WIND LOAD: 32 psf horizontal

- NOTES:
- ① Distance as required to permit coupler to be swaged
 - ② Place #4 x 3' - 2", centered on connector mat, but not welded to it
 - ③ All transverse wires size W15 at various spacing as shown elsewhere in plans
 - ④ Size and length of longitudinal wires shown elsewhere in plans

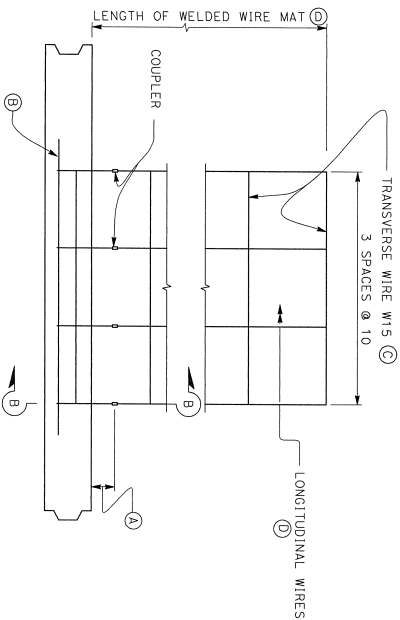
PLAN OF PANEL WITH SIX WIRE MAT

1 1/2" = 1'-0"



PLAN OF PANEL WITH FOUR WIRE MAT

1 1/2" = 1'-0"



- ② GENERAL NOTES NOT USED
② SOIL PARAMETERS REVISED

BRIDGE STANDARD DETAILS

FILE NO.	DATE	REVISION
X813-020-2	JULY 2014	APPROVAL DATE

Refer to: http://www.dot.ca.gov/hq/eng/structures/standard_details/standard_details.html

Modifications shown:
① GENERAL NOTES NOT USED
② SOIL PARAMETERS REVISED

DATE PLOTTED: 2/1/2014
TIME PLOTTED: 2:11PM

DESIGNER: J. R. HARRIS
CHECKER: J. R. HARRIS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
PROJECT NUMBER & PHASE: 041B0002241

CONTRACT NO.: 04-1K2B04

MECHANICALLY STABILIZED EMBANKMENT
DETAILS No. 2

DIST.	COUNTY	ROUTE	MILE POST	SHEET TOTAL
04	SCI	101	R28-4/R28-9	339 345

REGISTERED STRUCTURAL ENGINEER DATE: March 6, 2020

PLANS APPROVAL DATE: March 6, 2020

REGISTERED PROFESSIONAL ENGINEER No. 2639 EXPIRES 12/31/20



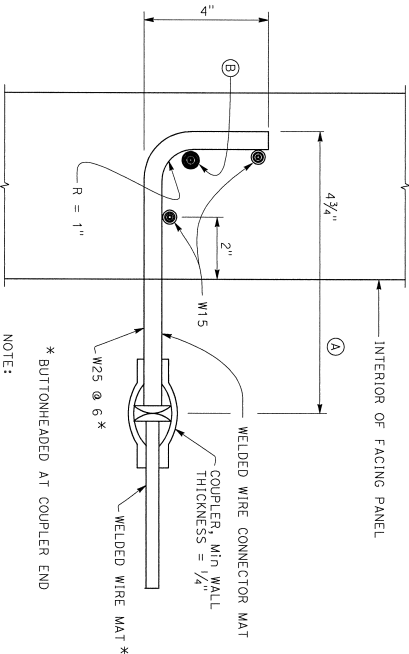
The State of California, the official or agent thereof, shall be responsible for the accuracy and proper application of the component design and any modifications shown.

CITY OF SAN JOSE DOT
200 E. SANTA CLARA ST., 8th FLOOR
SAN JOSE, CA 95113

BIOS CARDOSA ASSOCIATES, INC.
865 THE ALAMEDA
SAN JOSE, CALIFORNIA 95128

SECTION B-B

6" = 1'-0"

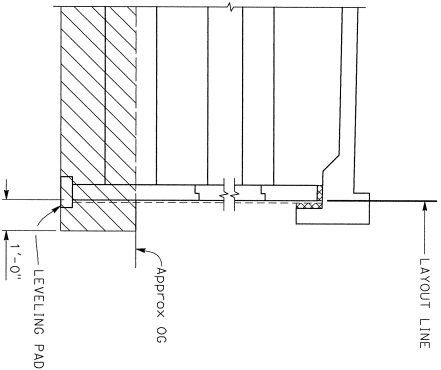


NOTE: Panel reinforcement not shown

SPECIAL DETAILS
RETAINING WALL No. 2

MECHANICALLY STABILIZED EMBANKMENT
DETAILS No. 2

REVISION NO.	DATE	DESCRIPTION
3/26/12B	3/26/12	ISSUE FOR BIDDING
4/28/13	4/28/13	REVISION

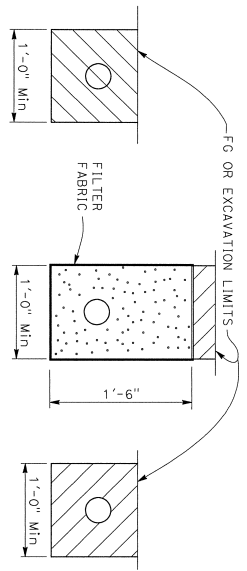


LIMITS OF EXCAVATION

1/2" = 1'-0"

UNPERFORATED OUTLET OR CLEAN OUT PIPE FOR UNDERDRAIN

NO SCALE



EXCAVATION

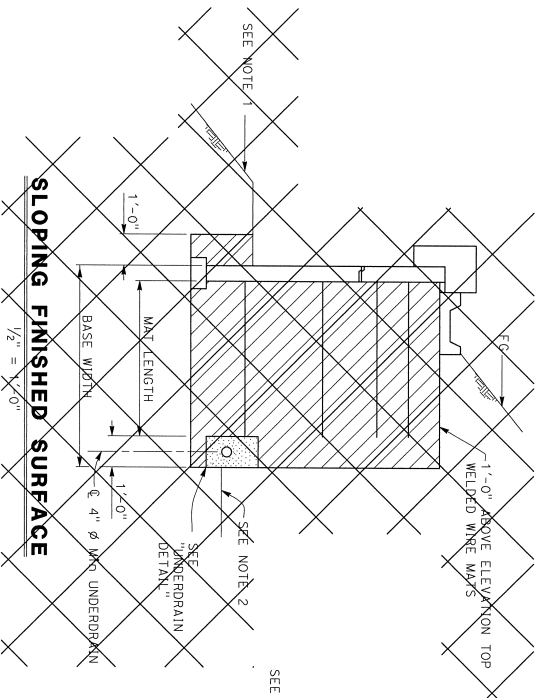
BACKFILL

NOTES:

1. Limits to FG except to GP when in roadway section
2. Locate underdrain behind bottom level of welded wire mats wherever possible, or at elevation needed to drain, as shown elsewhere on plans
3. Place perforated pipe underdrain of diameter shown elsewhere on plans or minimum 4" ϕ smoothed wall PVC or minimum 8" ϕ corrugated HDPE
4. Maximum spacing of outlet pipe is 200 feet
5. At sags in profile of underdrain, install outlet pipe for each direction of flow

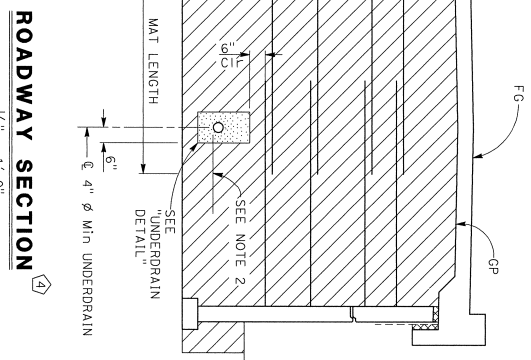
LEGEND:

- Limits of Structure Excavation
- Limits of Structure Backfill
- Limits of Permeable Material



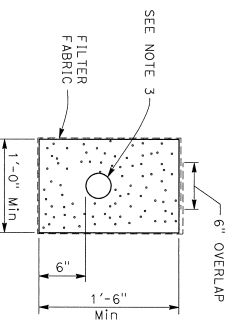
SLOPING FINISHED SURFACE

1/2" = 1'-0"



ROADWAY SECTION

1/2" = 1'-0"



UNDERDRAIN DETAIL

SPECIAL DETAILS

MECHANICALLY STABILIZED EMBANKMENT DETAILS No. 4

BRIDGE STANDARD DETAILS		MODIFICATIONS SHOWN:		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES		REGISTERED PROFESSIONAL ENGINEER	
FILE NO. X813-020-6	APPROVAL DATE: JULY 2014	1 SHEET TITLE REVISED	2 DETAIL NOT APPLICABLE	3 DETAIL REVISED	4 SECTION REVISED	UNIT: 0000	PROJECT NUMBER & PHASE: 04160002241	CONTRACT NO.: 04-1K2B04	REGISTERED PROFESSIONAL ENGINEER
Reference: http://www.dot.ca.gov/hqs/1260products/standard/bridge-standard-detail		DATE PLOTTED => 8/1/2014		DATE PLOTTED => 8/1/2014		DISK/PRINTING DATE: 8/1/2014		SHEET NO. 8 OF 12	

DIST. COUNTRY ROUTE MILE POST SHEET TOTAL
 04 SCI 101 R28.4/R28.9 341 345

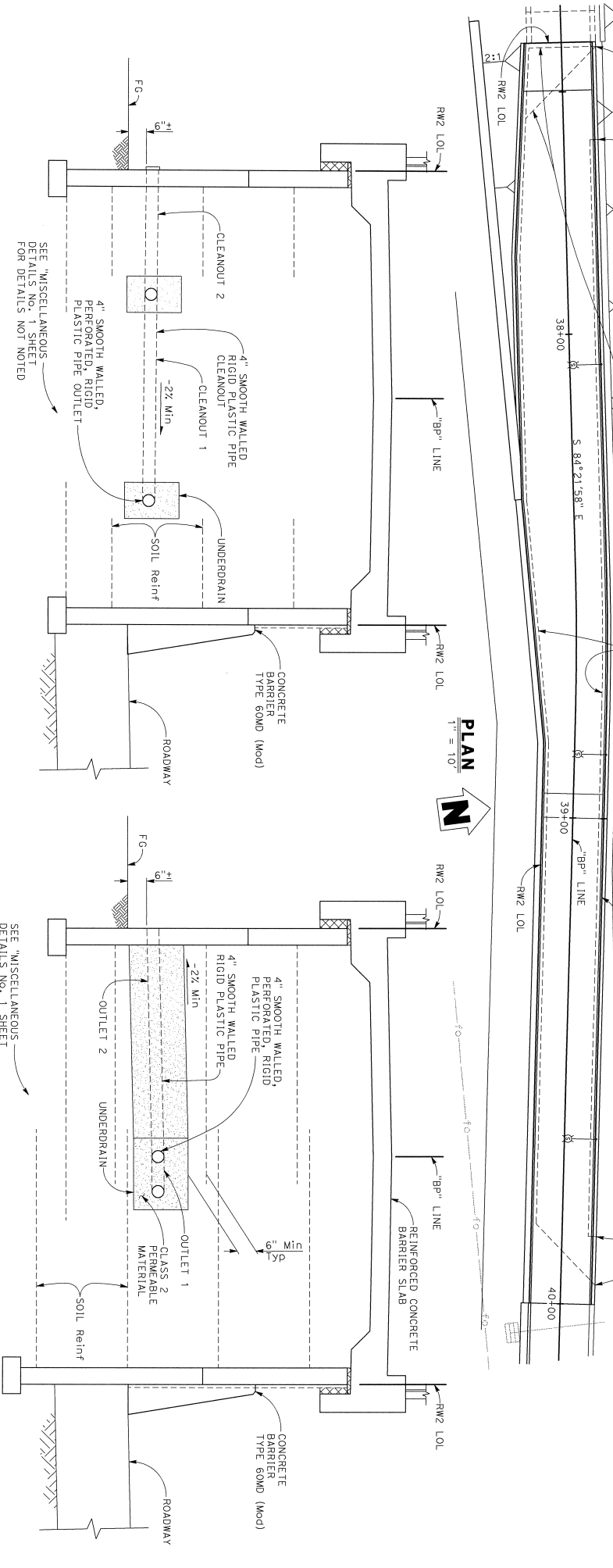
REGISTERED STRUCTURAL ENGINEER DATE
 March 8, 2020
 No. 2639
 EXP. 12/31/20

CITY OF SAN JOSE, CA
 200 E. SANTA CLARA ST., 8TH FLOOR
 SAN JOSE, CA 95133

BIGGS CARDOSA ASSOCIATES, INC.
 885 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95128

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
04	SCI	101	R28.4/R28.9	342 345
March 8, 2020 REGISTERED STRUCTURAL ENGINEER DATE REGISTERED PROFESSIONAL ENGINEER No. 2639 STATE OF CALIFORNIA CIVIL ENGINEER			SHEET NO. 9 OF 12	

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 CITY OF SAN JOSE DOI
 200 E. SANTA CLARA ST., 8TH FLOOR
 SAN JOSE, CA 95113
 BIGGS CARDOSA ASSOCIATES INC.
 865 THE ALAMEDA
 SAN JOSE, CALIFORNIA 95126



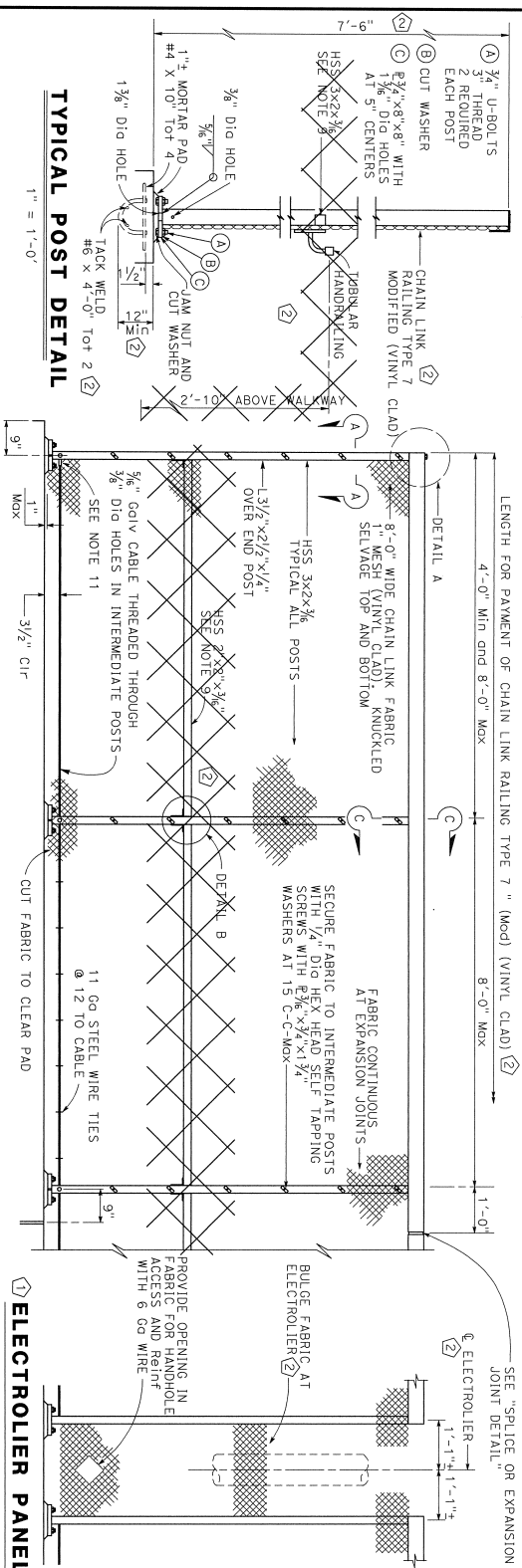
NOTE:
 THE CONTRACTOR MUST VERIFY ALL
 CONTROLLING FIELD DIMENSIONS BEFORE
 ORDERING OR FABRICATING ANY MATERIAL.

CLEANOUT PIPE DETAIL
AT APPROX "BP" 37+43.00 AND 37+60.00

OUTLET PIPE DETAIL

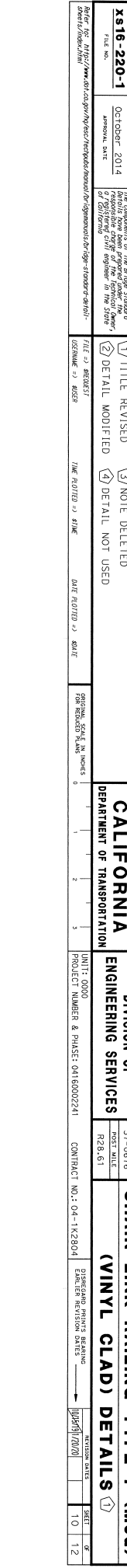
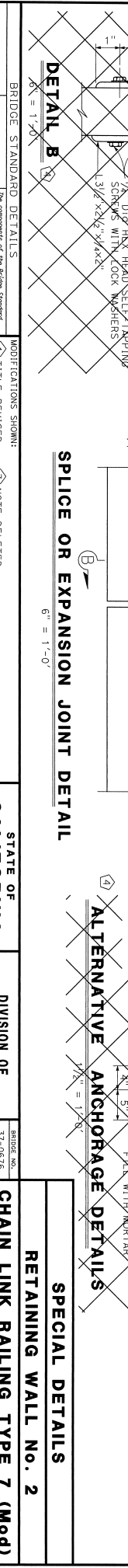
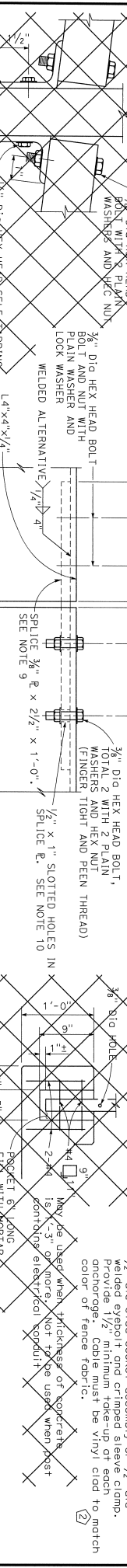
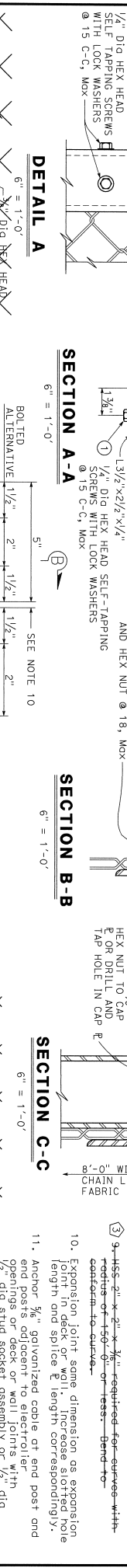
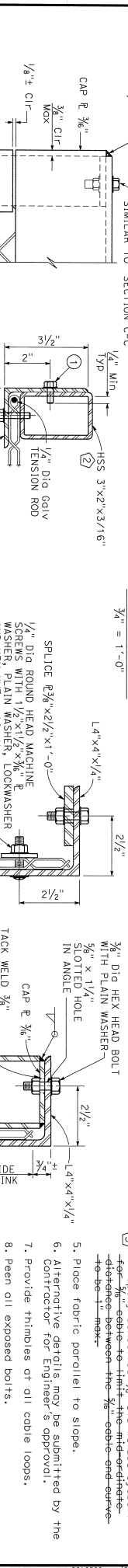
DESIGN OVERSIGHT	S. Liu		DESIGN	G. TOLAN	
DATE OF DATE	3-5-2020		DETAILS	G. TOLAN	
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/13)			QUANTITIES	A. VASQUEZ	
PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION			CHECKED	P. GONGIDI	
			DESIGNED	G. GONGIDI	
			CHECKED	F. KLANOFFRAD	
ORIGINAL SCALE IN INCHES FOR REVISION PLANS			UNIT:	0000	
			PROJECT NUMBER & PHASE:	04160002241	
			CONTRACT NO.:	04-1K2804	
			DESIGNED BY:	G. TOLAN	
			CHECKED BY:	A. VASQUEZ	
			DATE:	3/5/20	
			SHEET	9	
			OF	12	

001	COUNTY	ROUTE	MILE POST	SHEET TOTAL
04	SCI	101	R28.4/R28.9	343 345
March 6, 2020 REGISTERED STRUCTURAL ENGINEER DATE REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA No. 2639 EXPIRES 12/31/20 The State of California, by the authority of agents duly appointed, certifies that the above-named engineer is duly licensed as a Structural Engineer in the State of California. The Registration Code together with the project is responsible for the selection and proper application of the component design and any modifications shown. BIGGS CARDOSA ASSOCIATES INC. 885 THE ALAMEDA SAN JOSE, CALIFORNIA 95128				



NOTES:

- Railing assembly except join link fabric to be galvanized after fabrication.
- Railing must conform to horizontal and vertical dimensions. Post must be perpendicular to horizontal alignment. Provide 150° of peen.
- Horizontal angle shall be continuous over post or shorter length is permitted at expansion joints and other roll discontinuities.
- When setting the post, an approved horizontal alignment must be maintained.
- Place fabric parallel to slope.
- Alternative details may be submitted by the contractor for Engineer's approval.
- Provide thimbles at all cable loops.
- Peen all exposed bolts.
- HSS 3x2x3/16 required for sleeves with conform to code.
- Expansion joint same dimension as expansion joint in deck or wall.
- Anchor 3/8" galvanized cable at end post and end posts adjacent to electroliner openings or deck or wall joints with 1/2" dia. rigid stud socket assembly or 1/2" dia. rigid eye-bolt and crimped sleeve clamp.
- Cable must be vinyl clad to match color of fence fabric.



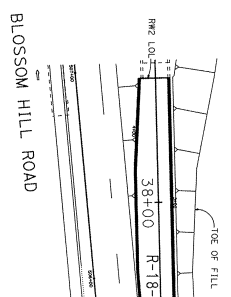
BRIDGE STANDARD DETAILS X816-220-1 OCTOBER 2014 THE COMPONENTS OF THE BRIDGE STRUCTURE SHALL BE CONSIDERED AS PART OF THE BRIDGE DESIGN AND SHALL BE DESIGNED BY A REGISTERED CIVIL ENGINEER IN THE STATE OF CALIFORNIA.		MODIFICATIONS SHOWN: 1 TITLE REVISED 2 DETAIL MODIFIED 3 NOTE DELETED 4 DETAIL NOT USED	
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES PROJECT NUMBER & PHASE: 0416002241 CONTRACT NO.: 04-1A23904		SPECIAL DETAILS RETAINING WALL NO. 2 CHAIN LINK RAILING TYPE 7 (MOD) (VINYL CLAD) DETAILS	

NOTES:

Standard Penetration Test Sampler: L.D. = 1.4", O.D. = 2" Modified California Sampler: L.D. = 2.5", O.D. = 3" Hammer Assembly: A 140 lb hammer with 30" drop (Automatic Hammer)
 This LOG sheet was prepared in accordance with the California Soil & Rock Logging Classification, and Presentation Manual (2010)
 See California 2015 Standard Plans A10F, A10G and A10H for Soil and Rock Legend.
 All dimensions are in feet unless otherwise shown

BENCH MARK:

NCS 00453 (HS 2787)
 Elev. 130.83
 4.7 miles northwest along the southern Pacific Company Railroad from the station at Coyote.
 Vertical Datum: NAVD83
 Horizontal Datum: CGS83, Zone 3, Epoch 2010.00
 in U.S. Survey Feet.

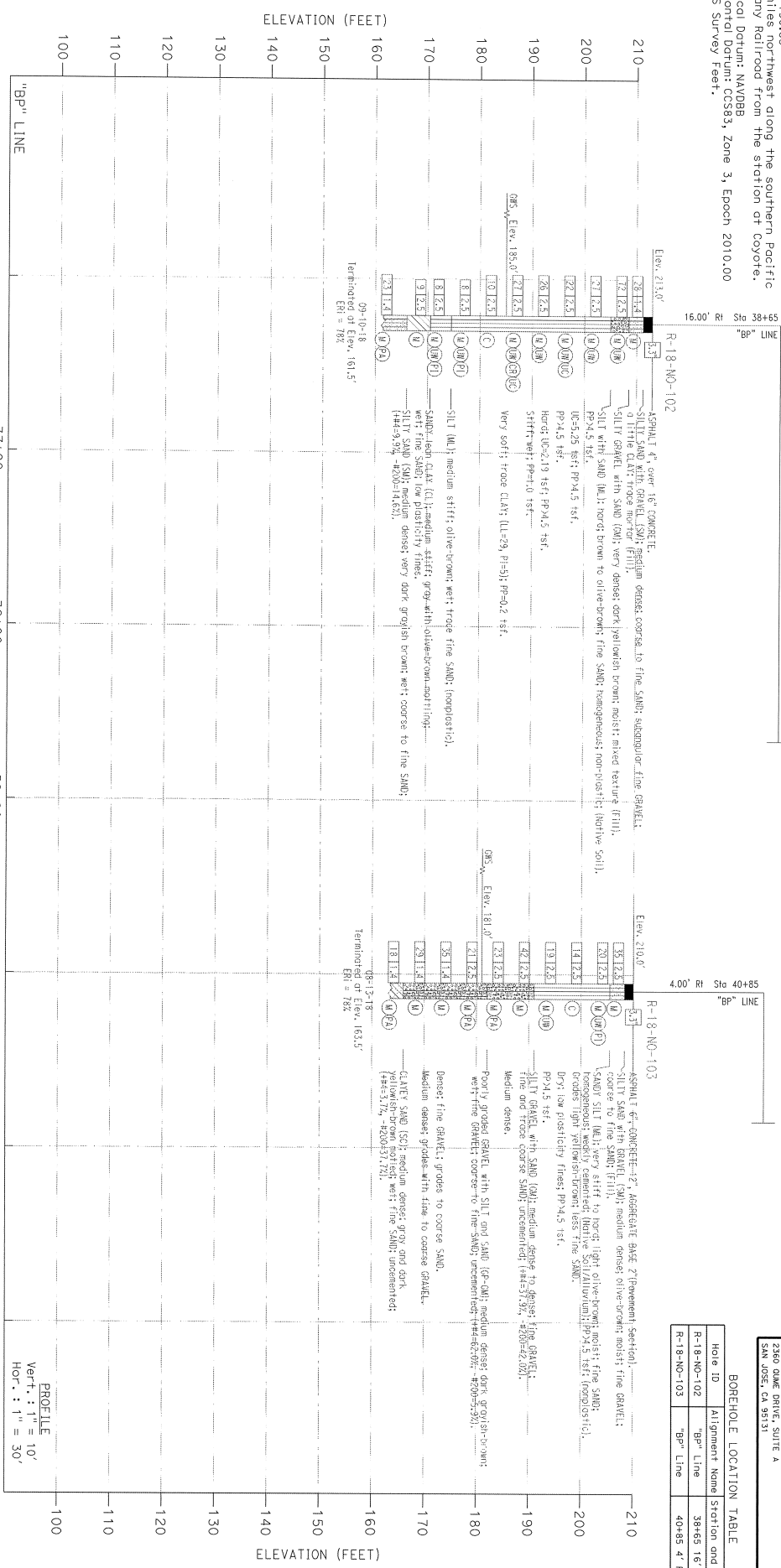


PLAN
 1"=30'

BOREHOLE LOCATION TABLE

Bore ID	Alignment	Name	Station and Offset
R-18-NO-102	"BP" Line		38+65 16' Rt.
R-18-NO-103	"BP" Line		40+85 4' Rt.

REGISTERED PROFESSIONAL ENGINEER
 DATE: 10-15-19
 GEOLOGICAL PROFESSIONAL: [Signature]
 March 6, 2020
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.
 CITY OF SAN JOSE DOT
 200 E. SANTA CLARA ST., 8th FLOOR
 SAN JOSE, CA 95113
 PARIKH CONSULTANTS, INC.
 2380 DUNE DRIVE, SUITE A
 SAN JOSE, CA 95131



DESIGN OVERSIGHT S. Liu	DRAWN BY KIM QUYANG	L.S. BHANOO FIELD INVESTIGATION BY	PREPARED FOR THE STATE OF CALIFORNIA	PROJECT NO. 37E0126	RETAINING WALL NO. 2
DATE 3-5-2020	CHECKED BY ALISTON LAM	DATE AUGUST 2018 TO SEPTEMBER 2018	DEPARTMENT OF TRANSPORTATION	POST DATES 12/3, 5/1	
AS GEOTECHNICAL LOG OF TEST BORINGS SHEET (REVISION) (REV. 02/17/17)		PROJECT SCALE & INCHES 0 1 2 3		UNIT: PRODUCT NUMBER & PHASE: 04160002241 CONTRACT NO.: 04-1K2804	
LOG OF TEST BORINGS 1 OF 1			SHEET 12 OF 12		