



SAN MARCOS AVENUE AND SANTA RITA AVENUE ROADWAY IMPROVEMENT SAN FRANCISCO, CALIFORNIA



City and County of San Francisco

Edwin M. Lee, Mayor
Mohammed Nuru, DPW Director

CONTRACT NO. 2438J

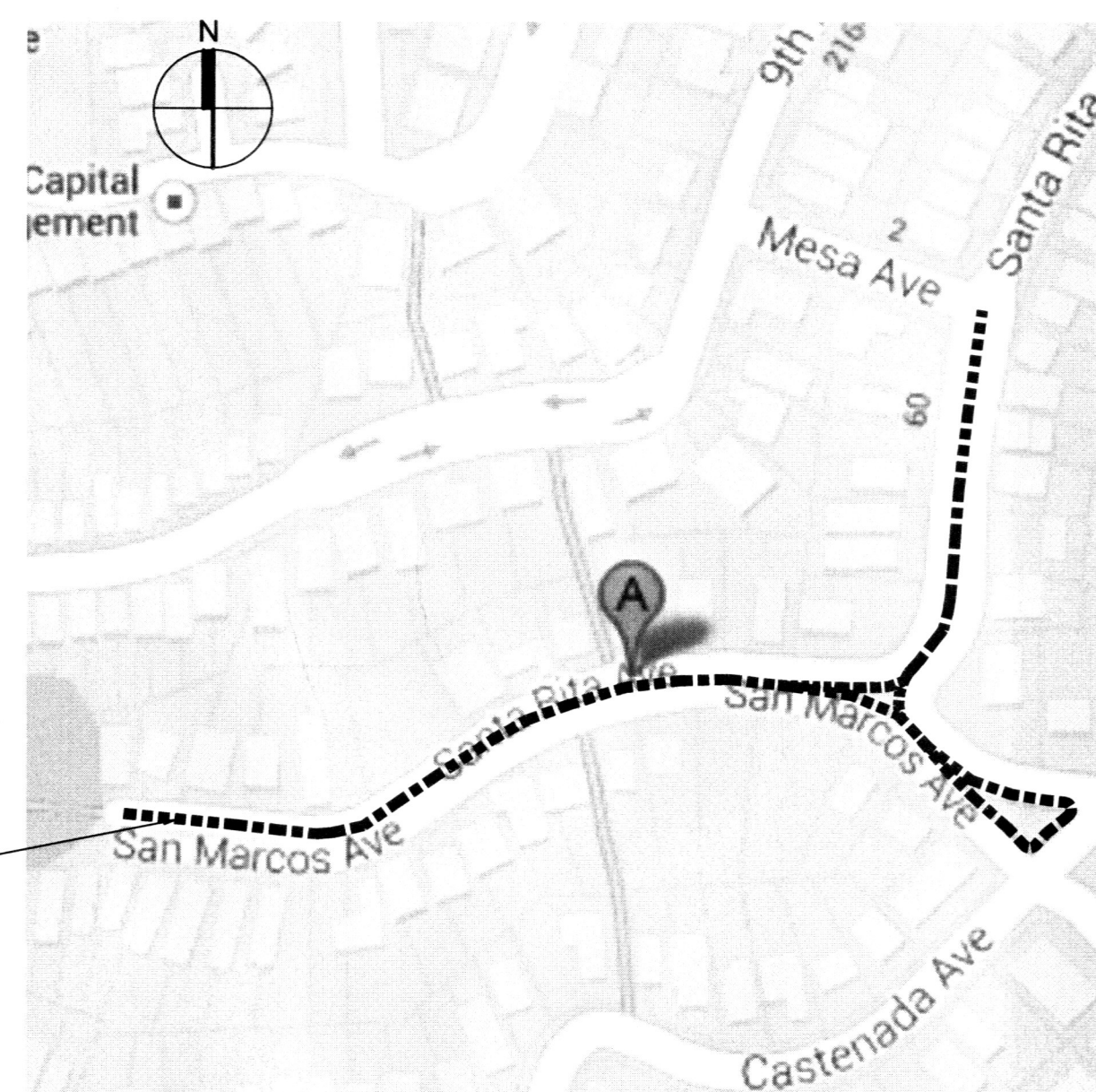
ID NO. FCE15112

Public Works
Design and Construction

Fuad S. Sweiss, PE, PLS
City Engineer



LOCATION MAP



ENLARGED AREA MAP



ROADWAY ON SAN MARCOS AVENUE

BIDDER'S REQUIREMENTS:

IN ACCORDANCE WITH THE PROVISIONS OF THE CALIFORNIA PUBLIC CONTRACT CODE, SECTION 3300, A BID SUBMITTED TO A PUBLIC AGENCY BY A CONTRACTOR WHO IS NOT LICENSED IN ACCORDANCE WITH CHAPTER 9 OF THE BUSINESS & PROFESSIONS CODE SHALL BE CONSIDERED NON-RESPONSIVE AND SHALL BE REJECTED BY THE PUBLIC AGENCY.

AT THE TIME OF AWARD, THE CONTRACTOR SHALL POSSESS A CLASS "A" GENERAL ENGINEERING CONTRACTOR'S LICENSE, OR CLASS "C-8" CONCRETE SPECIALTY CONTRACTOR'S LICENSE.

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
THIS DRAWING WAS LAST MODIFIED: 04/17/15 11:03, BY: elwong				

REFERENCE INFORMATION
& FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED:	DATE:	APPROVED
EW	3/2015	<i>[Signature]</i> 6/4/15
DRAWN:	DATE:	SECTION MANAGER
EW	3/2015	<i>[Signature]</i> 6/4/15
CHECKED:	DATE:	DEPUTY DIVISION MANAGER
RL	3/2015	<i>[Signature]</i> 6/4/15
		DIVISION MANAGER

SCALE:	NONE
SHEET OF SHEETS	1 OF 39

SAN MARCOS AVENUE AND SANTA RITA AVENUE
ROADWAY IMPROVEMENT

COVER SHEET

CONTRACT NO.	2438J
DRAWING NO.	G-0
FILE NO.	100,683
REV. NO.	0

Drawing Path: V:\2438J_San_Marcos_Roadway_Repair_Phase_2\2_Design\Working_Drawings\EST\Current\2438J_TBD.dwg
 Plot Time: Thu, 04 Jun 2015 - 8:26am
 Measurement Units are English
 Model Units: Inches

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2	G-1	100,684	INDEX OF DRAWINGS
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4.2	R-1.2	100,717	LINE AND CURVE TABLES
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1/13/16	ADDITIONAL SHEETS	IL	DC
NO.	DATE	DESCRIPTION	BY
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REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO



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EW 3/2015	<i>Raymond R.</i> 3/4/16
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EW 3/2015	
CHECKED: DATE:	DEPUTY DIVISION MANAGER DATE:
RL 3/2015	
	DIVISION MANAGER DATE:

SCALE:
 NONE
 SHEET OF SHEETS
 2 OF 39

SAN MARCOS AVENUE AND SANTA RITA AVENUE
 ROADWAY IMPROVEMENT

INDEX OF DRAWINGS

CONTRACT NO.	2438J
DRAWING NO.	G-1
FILE NO.	100,684
REV. NO.	1

Xrefs: V:\2438J_San_Marcos_Roadway_Repair_Phase_2\2_Design\Working_Drawings\EST\Current\2438J_TBD.dwg
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 Drawing Path: V:\2438J_San_Marcos_Roadway_Repair_Phase_2\2_Design\Working_Drawings\EST\Current\2438J_G-0.dwg
 Plot Time: Thu, 10 Mar 2016 - 3:01 pm

GENERAL NOTES

- ENTERING INTO THIS CONTRACT WITH THE CITY INDICATES THAT THE CONTRACTOR HAS VISITED THE SITE, IS FAMILIAR WITH THE EXISTING CONDITIONS AND REVIEWED SAME WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS AND FIELD CONDITIONS, AND FOR CONFIRMING THAT THE WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE CITY BEFORE PROCEEDING WITH THE WORK IN QUESTION OR RELATED WORK. WRITTEN DIMENSIONS SHALL GOVERN. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL VERIFY EXISTING FACILITIES IN THE FIELD, WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL NOTIFY THE CITY REPRESENTATIVE IN WRITING OF CONFLICTS BETWEEN DRAWINGS PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
- THE CONTRACTOR IS RESPONSIBLE FOR WORKING AROUND AND PROTECTING ALL EXISTING FACILITIES ADJACENT TO THE WORK AREA. THESE FACILITIES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: CABLE CAR TRACKS, TREES, LANDSCAPING, HYDRANTS, UTILITY POLES AND UTILITY PULL BOXES. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY FACILITIES DAMAGED DURING EXCAVATION ADJACENT TO THE WORK AREA.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION ALL WORK UNDER THIS CONTRACT TO AVOID REDUNDANCY BETWEEN PAVING/CURB RAMP WORK AND SEWER (AND/OR) WATER WORK.
- CONFORM LINE SHALL BE FIVE (5) FEET BEYOND THE EXTENDED PROPERTY LINE UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE CITY REPRESENTATIVE.
- THE THICKNESS OF THE NEW ASPHALT CONCRETE WEARING SURFACE (ACWS) SHALL BE TWO (2) INCHES MINIMUM UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE CITY REPRESENTATIVE.
- CURB GRADE SHALL BE SIX (6) INCHES ABOVE THE ADJACENT PAVEMENT GRADE OR GUTTER GRADE UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE CITY REPRESENTATIVE.
- WHEN EXISTING AND NEW ELEVATIONS ARE GIVEN FOR THE SAME POINT, THE CONTRACTOR SHALL CONSTRUCT TO NEW ELEVATIONS. UNLESS OTHERWISE DIRECTED BY THE CITY REPRESENTATIVE, THE EXISTING ELEVATIONS ARE FOR INFORMATION ONLY.
- STANDARD DETAILS AND INFORMATION SHALL BE USED FOR ALL APPLICABLE CASES UNLESS SHOWN OR OTHERWISE INDICATED.
- CROSS SECTION CALL-OUTS ARE SHOWN ONLY ONCE ON THE DRAWINGS AND ARE TYPICAL FOR SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED.
- EXISTING CATCH BASIN GRADE SHALL BE ADJUSTED IN THE FIELD TO CONFORM TO NEW GUTTER GRADE.
- NEW GUTTER AND/OR PARKING STRIP SHALL CONFORM TO EXISTING PAVEMENT UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- THE LIMITS OF SIDEWALK RECONSTRUCTION SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL SAWCUT TO THE NEAREST FLAG/JOINT.
- ALL UTILITY VAULTS AND PULL BOXES WITHIN THE SIDEWALK RECONSTRUCTION AREA SHALL BE ADJUSTED TO THE NEW GRADE AS INCIDENTAL WORK.
- FOR ALL TRAFFIC SIGNAL PULL BOXES THAT ARE ROTATED, RELOCATED OR ADJUSTED, THE CONTRACTOR SHALL CONTACT MTA TRAFFIC SIGNAL SHOP AT LEAST THREE (3) DAYS PRIOR TO SETTING THE PULL BOX AT THE NEW LOCATION AND/OR GRADE. ALL WORK SHALL MEET THE REQUIREMENTS OF SFDPW STANDARD 87,201.
- THE 12-INCH WIDE GROOVED BORDERS (WARNING BANDS) ON CURB RAMPS SHALL NOT BE PART OF THE SLOPED RAMP AND WING SURFACES UNLESS OTHERWISE INDICATED.
- ELEVATIONS SHOWN ON CURB RAMP DETAILS ARE MEASURED IN FEET AND ARE RELATIVE TO A LOCAL REFERENCE POINT (TOP OF FIRE HYDRANT IN MOST CASES) UNLESS OTHERWISE INDICATED.
- ASPHALT CONCRETE PATCHING AROUND NEW GUTTERS AND/OR PARKING STRIPS AT CURB RETURNS SHALL BE CONSIDERED AS INCIDENTAL WORK TO THE CURB RAMP BID ITEM.
- CONCRETE BASE WORK SHOWN ON CURB RAMP DETAILS MAY OVERLAP WITH THE SAME WORK SHOWN ON PAVEMENT PLANS. THE CONTRACTOR SHALL COORDINATE OVERALL PAVING WORK TO AVOID PERFORMING DUPLICATE WORK.
- ANY POLES OR VERTICAL ELEMENTS INSTALLED OR RELOCATED NEAR FIRE HYDRANTS SHALL ADHERE TO THE FOLLOWING MINIMUM CLEARANCES: THE MINIMUM CLEARANCE BETWEEN A POLE OR VERTICAL ELEMENT TO A HIGH PRESSURE HYDRANT IS FIVE (5) FEET. THE MINIMUM CLEARANCE BETWEEN A POLE OR VERTICAL ELEMENT TO A LOW PRESSURE HYDRANT IS THREE (3) FEET.
- ALL CITY MONUMENTS MUST BE PROTECTED PER STATE LAND SURVEYORS ACT AND SPECIFICATION SECTION 01 71 33 OF THE PROJECT MANUAL. CALL THE COUNTY SURVEYOR AT 554-5833 TO REPORT ANY MONUMENTS IN DANGER OF DISTURBANCE, DESTRUCTION OR REMOVAL.
- IN THE EVENT COBBLESTONES ARE ENCOUNTERED IN ANY STREET UNDER CONSTRUCTION, THE CONTRACTOR SHALL REMOVE THEM FROM THE PROJECT SITE AS CITY PROPERTY. SEE DETAILS IN SPECIFICATION SECTION 02 41 00 OF THE PROJECT SPECIFICATIONS. SALVAGE, HAULING AND DELIVERY OF EXISTING COBBLESTONES TO THE DESIGNATED AREAS, FROM THE PROJECT SITE, SHALL BE DONE AS INCIDENTAL WORK.

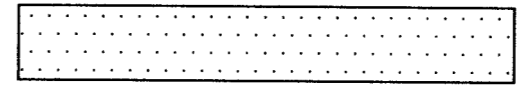


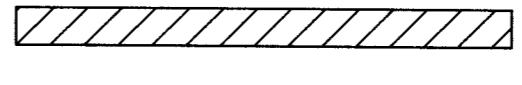

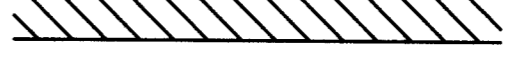

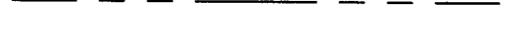
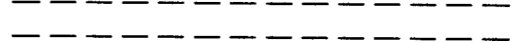

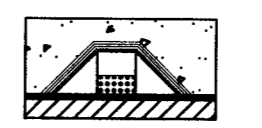
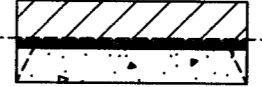
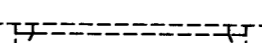
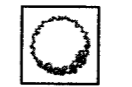

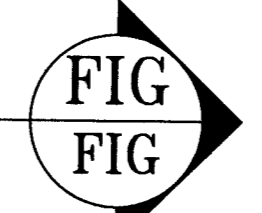


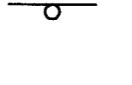


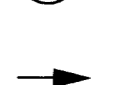
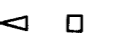



- IN THE EVENT GRANITE CURB IS TO BE REPLACED WITH CONCRETE CURB, THE CONTRACTOR SHALL REMOVE THEM FROM THE PROJECT SITE AS CITY PROPERTY. ONLY GRANITE CURB GREATER THAN 4 FEET IN LENGTH WILL BE ACCEPTED. SEE DETAILS IN SPECIFICATION SECTION 02 41 00 OF THE PROJECT SPECIFICATIONS. SALVAGE, HAULING AND DELIVERY OF EXISTING GRANITE CURB TO THE DESIGNATED AREAS, FROM THE PROJECT SITE, SHALL BE DONE AS INCIDENTAL WORK.
- AT THE COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE ALL MARKS, STAINS AND BLEMISHES RESULTING FROM CONSTRUCTION OPERATIONS THROUGHOUT THE CONTRACT.
- CONTRACTOR SHALL PREVENT CONSTRUCTION MATERIAL, PAVEMENT, CONCRETE, EARTH, PAINTS, THINNER, SOLVENTS, AND OTHER DEBRIS OR TOXIC MATERIAL FROM ENTERING A SEWER OR SEWER STRUCTURE INCLUDING SURFACE FLOW COLLECTION SYSTEM, SUCH AS CATCH BASINS AND CULVERTS.
- RAMPS WITH GRADE BREAKS SHALL HAVE A BACK OF CURB ELEVATION (BOC) OF 0.01 FEET HIGHER THAN THE SPECIFIED FACE OF CURB (FOC) ELEVATION. RAMPS WITHOUT GRADE BREAKS SHALL HAVE A MAXIMUM BACK OF CURB ELEVATION (BOC) OF 0.04 FEET HIGHER THAN THE FACE OF CURB (FOC) ELEVATION.
- THE FOLLOWING ARE CONTACT PHONE NUMBERS (415 AREA CODE) FOR PUBLIC AND PRIVATE UTILITIES:

BLHP	STREET LIGHTS	RAUL MOSUELA	227-8506
DPW	NEWS RACKS	GRACE MOORE	554-5892
	SEWER REPAIR		695-2096
	STREET TREES (URBAN FORESTRY)		641-2676
DT	FIRE ALARM	MIKE DENNING	550-2718
		TERRY ELISAIA	550-2723
MTA	MUNI OVERHEAD LINES	TIM LIPPS	554-9227
		DANIEL MURPHY	554-9228
	TRAFFIC SIGNAL SHOP	LAUREN GREEN	550-2736
SFWD	BUSINESS HOURS REPAIRS		550-4965
	NON-BUSINESS HOURS REPAIRS		550-4911
	IDENTIFY LINES		550-4925
AT&T		HUAN HUYNH	644-7040
		DAVID SCOTT	644-7021
		LYNN SCHUSSEL	644-7043
		MARIA TORRES	644-7054
COMCAST		PAUL O'LEARY	859-0530
		DEREK NIPPE	503-4505
PG&E	SERVICE PLANNING	TONY FISHER	695-3535
	SERVICE PLANNING	CAROLINA SILVA	695-3466
	CONSTRUCTION	BILL RUSSO	695-3330

ABBREVIATIONS

ACWS = ASPHALT CONCRETE WEARING SURFACE	PB = PULLBOX
BLD = BUILDING	PC = PROPERTY CORNER
BLHP = BUREAU OF LIGHT, HEAT AND POWER	PG&E = PACIFIC GAS AND ELECTRIC
BM = BENCHMARK	PL = PROPERTY LINE
BOC = BOTTOM OF CURB	PM = PARKING METER
BSW = BACK OF SIDEWALK	PUC = PUBLIC UTILITIES COMMISSION
C = CURB	REF PT = REFERENCE POINT
CATV = CABLE TV PULLBOX	S = STRUCTURAL
CB = CATCH BASIN	SBC = SBC COMMUNICATIONS COMPANY
CONC = CONCRETE	SFDD = SAN FRANCISCO FIRE DEPARTMENT
DOE = DEPARTMENT OF ENERGY/ ELECTRICITY	SFWD = SAN FRANCISCO WATER DEPARTMENT
DT = DEPARTMENT OF TECHNOLOGY	SL = STREET LIGHT POLE
DWG = DRAWING	SLPB = STREET LIGHT PULL BOX
DWY = DRIVEWAY	SM = SURVEY MONUMENT
(E) = EXISTING	SS = STREET SIGN (I.E. STOP, STREET)
EL = ELEVATION	SSV = SIDE SEWER VENT
ENT = ENTRANCE	SW = SEWER
FA = FIRE ALARM POLE	SWLK = SIDEWALK
FG = FINISH GRADE	TC = TRAFFIC CONTROLLER
FIG = FIGURE	TW = TOP OF WALL
G = GUTTER	TCW = TOP OF CURB WALL
GM = GAS METER	TEL = TELEPHONE/ AT&T/ PACBELL PULL BOX
HP = HIGH POINT	TOC = TOP OF CURB
HPFH = IRRIGATION	TS = TRAFFIC SIGNAL POLE
IRR = HIGH PRESSURE FIRE HYDRANT	TSB = TRAFFIC SIGNAL PULL BOX
LP = LOW POINT	TV = COMCAST/ TV/ CABLE PULL BOX
LPFH = LOW PRESSURE FIRE HYDRANT	TYP = TYPICAL
MB = MAIL BOX	WD = WATER DEPARTMENT PULL BOX/ METER/ VALVE
MH = MAN HOLE	WM = WATER METER
MP = MUNI POLE	WP = WOODEN POLE
(N) = NEW	

LEGENDS

	APPROXIMATE AREA TO BE COLD PLANED, FULL DEPTH AND CONSTRUCT (N)2-INCH THICK ACWS. EXACT LOCATION AND DIMENSION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
	APPROXIMATE AREA TO BE CONSTRUCTED (N)2-INCH THICK ACWS ON 8-INCH THICK CONCRETE BASE. EXACT LOCATION AND DIMENSION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
	CONSTRUCT COMBINED 6-INCH WIDE CONCRETE CURB AND 2-FOOT WIDE CONCRETE GUTTER
	CONSTRUCT 2-FOOT WIDE CONCRETE GUTTER
	CONSTRUCT 9-INCH WIDE, 2-FOOT 6-INCH TALL CONCRETE CURB WALL WITH RAILING AND COMBINED 2-FOOT WIDE GUTTER, SEE S-DWGS
	CONFORM LINE
	EXISTING FACILITY
	PROPERTY LINE
	SEWER TRENCH, SEE SW-DWGS
	METAL RAILING, SEE S-DWGS
	CURB RAMP TO BE CONSTRUCTED WITH 12-INCH WIDE GROOVED BORDERS (WARNING BANDS), CONCRETE CAST-IN-PLACE DETECTABLE SURFACE TILES (TRUNCATED DOMES), AND SIDEWALK WITH REINFORCEMENT AT RE-ENTRANT CORNERS PER DPW STANDARD PLAN 96,608
	NEW DRIVEWAY WITH COMBINED CURB AND 2-FOOT WIDE GUTTER
	EXISTING DRIVEWAY TO REMAIN
	EXISTING TREE TO REMAIN, TREE SIZES VARIES
	(E) SEWER MANHOLE
	SECTION/DETAIL IDENTIFICATION REFERENCE DRAWING NO.
	TOP OF CURB ELEVATION GUTTER ELEVATION
	FINISHED GRADE ELEVATION
	EXISTING STREET/SIGN POLE
	EXISTING HIGH-PRESSURE/LOW-PRESSURE FIRE HYDRANT
	EXISTING WOODEN UTILITY POLE
	EXISTING CATCHBASIN TO REMAIN
	EXISTING CITY SURVEY MONUMENT
	EXISTING STREET LIGHT POLE
	DIRECTION OF PROPOSED DRAINAGE FLOW
	EXISTING UTILITY CASTING/PULL BOX/VALVE/VENT

NO.	DATE	DESCRIPTION	BY	APP.
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THIS DRAWING WAS LAST MODIFIED: 05/11/15 14:14, BY: liliang				

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INFRASTRUCTURE DIVISION
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO



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CHECKED: DATE: D.CALLEROS 5/15	DEPUTY DIVISION MANAGER DATE: <i>Margaret Paquin</i>
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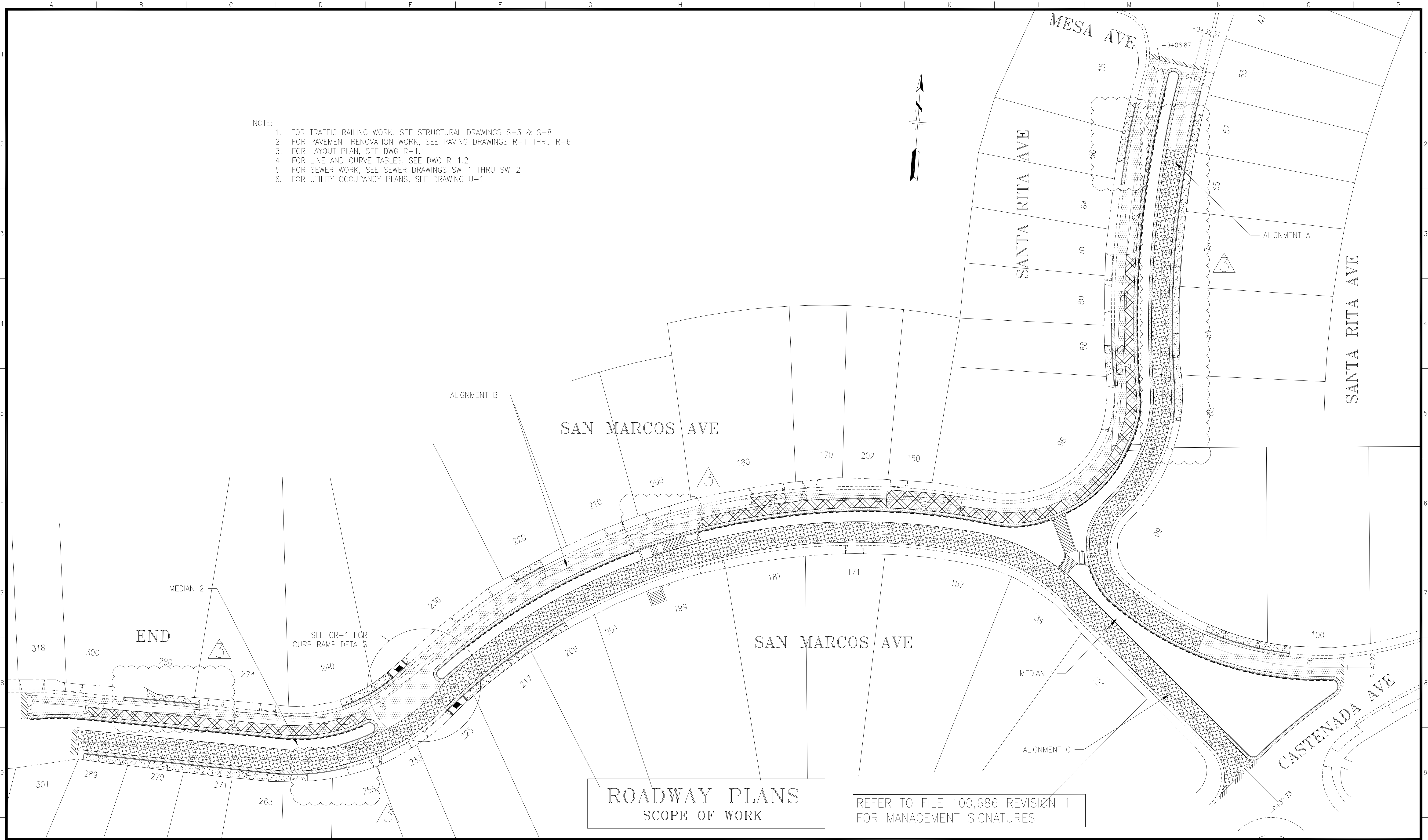
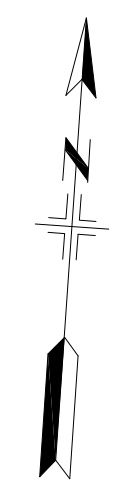
SCALE: NTS
SHEET OF SHEETS: 3 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
 ROADWAY IMPROVEMENTS
 ROADWAY
 GENERAL NOTES, ABBREVIATIONS, LEGEND

CONTRACT NO. 2438J
DRAWING NO. R-0
FILE NO. 100,685
REV. NO. 0

Drawing Path: V:\2408J_Santa_Rita_Ave_San_Marcos_Ave_Pavement_Renovation\2_Design_Working_Drawings\ESH\Current\Files\San_Marcos_Santa_Rita.dwg
 Plot Time: Mon, 18 May 2015 - 8:00am
 Model Units: Undefined
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- NOTE:**
1. FOR TRAFFIC RAILING WORK, SEE STRUCTURAL DRAWINGS S-3 & S-8
 2. FOR PAVEMENT RENOVATION WORK, SEE PAVING DRAWINGS R-1 THRU R-6
 3. FOR LAYOUT PLAN, SEE DWG R-1.1
 4. FOR LINE AND CURVE TABLES, SEE DWG R-1.2
 5. FOR SEWER WORK, SEE SEWER DRAWINGS SW-1 THRU SW-2
 6. FOR UTILITY OCCUPANCY PLANS, SEE DRAWING U-1



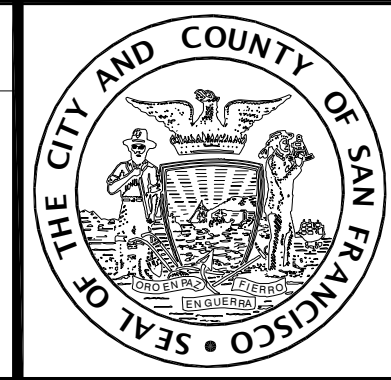
ROADWAY PLANS
SCOPE OF WORK

REFER TO FILE 100,686 REVISION 1
FOR MANAGEMENT SIGNATURES

NO.	DATE	DESCRIPTION	BY	APP.
7/1/16		ADD'L INFORMATION	IL	DC
5/21/16		CONCRETE GUTTER & CURB	IL	DC
1/13/16		ALIGNMENT CHANGE	IL	DC

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 07/19/16 14:34, BY: iiliang

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED:	DATE:
I.LIANG	1/15
DRAWN:	DATE:
I.LIANG	1/15
CHECKED:	DATE:
D.CALLEROS	4/15

APPROVED	
SECTION MANAGER	DATE:
DEPUTY DIVISION MANAGER	DATE:
DIVISION MANAGER	DATE:

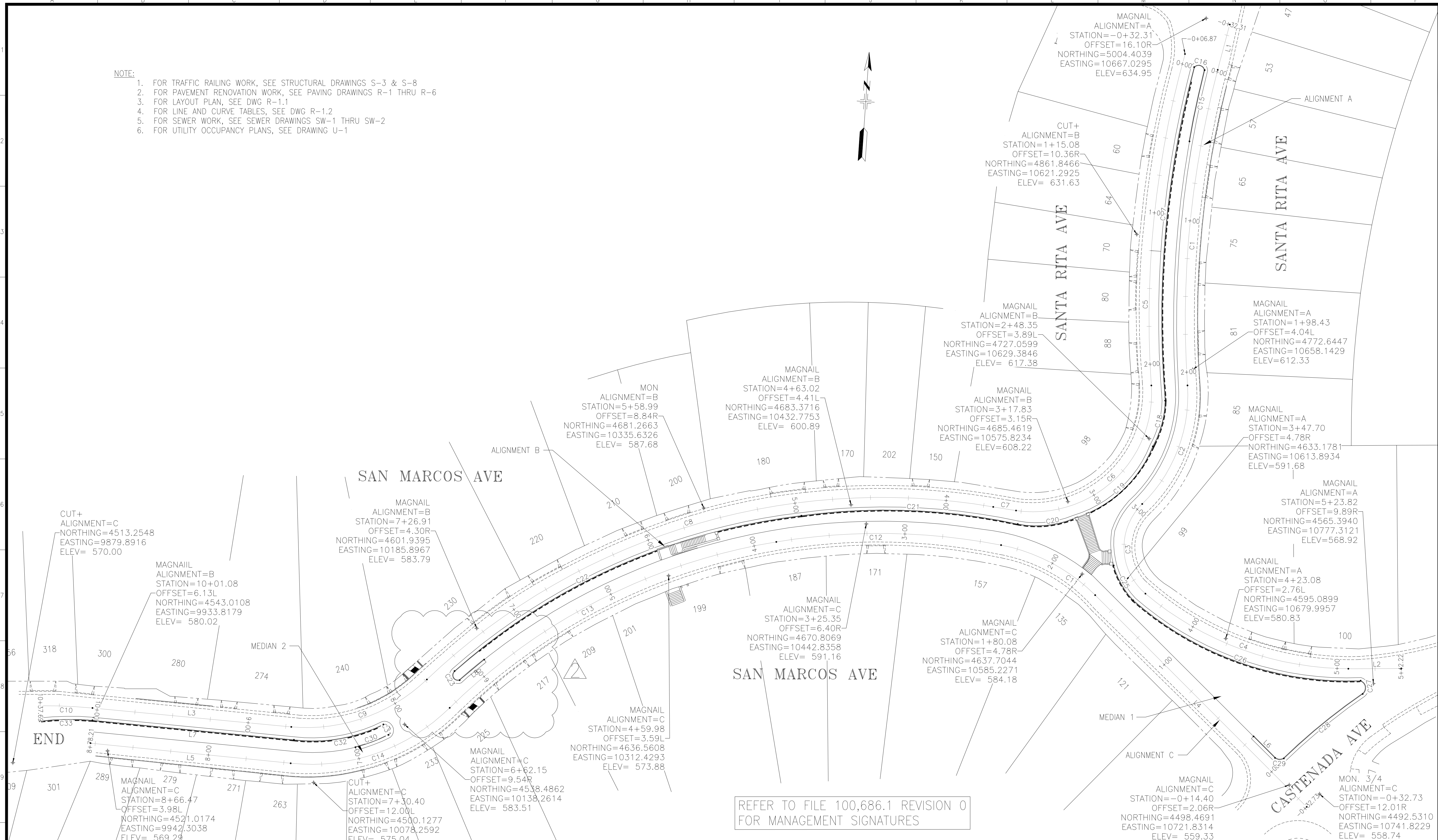
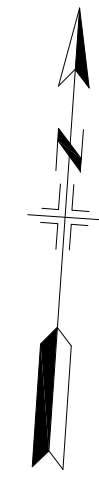
SCALE:
1"=30'
SHEET OF SHEETS
4 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS
VICINITY MAP
SAN MARCOS AVENUE - CASTENADA AVENUE TO END
SANTA RITA AVENUE - CASTENADA AVENUE TO MESA AVENUE

CONTRACT NO.	2438J
DRAWING NO.	R-1
FILE NO.	100,686
REV. NO.	3

NOTE:

1. FOR TRAFFIC RAILING WORK, SEE STRUCTURAL DRAWINGS S-3 & S-8
2. FOR PAVEMENT RENOVATION WORK, SEE PAVING DRAWINGS R-1 THRU R-6
3. FOR LAYOUT PLAN, SEE DWG R-1.1
4. FOR LINE AND CURVE TABLES, SEE DWG R-1.2
5. FOR SEWER WORK, SEE SEWER DRAWINGS SW-1 THRU SW-2
6. FOR UTILITY OCCUPANCY PLANS, SEE DRAWING U-1

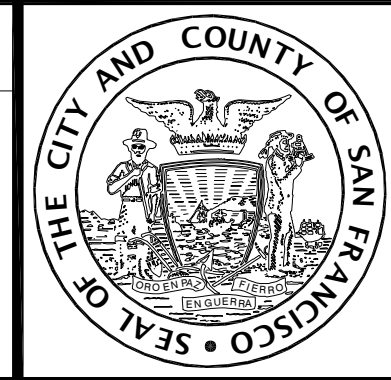


REFER TO FILE 100,686.1 REVISION 0 FOR MANAGEMENT SIGNATURES

NO.	DATE	DESCRIPTION	BY	APP.
1	5/21/16	CONCRETE GUTTER & CURB	IL	DC
1	3/31/16	CURB NOSING ALIGNMENT	IL	DC

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 07/19/16 14:34, BY: liiang

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: I.LIANG	DATE: 1/16
DRAWN: I.LIANG	DATE: 1/16
CHECKED: D.CALLEROS	DATE: 2/16

APPROVED	
SECTION MANAGER	DATE:
DEPUTY DIVISION MANAGER	DATE:
DIVISION MANAGER	DATE:

SCALE: 1"=30'
SHEET OF SHEETS

SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS
ROADWAY
SAN MARCOS AVENUE & SANTA RITA AVENUE
ALIGNMENT LAYOUT PLAN & SURVEY CONTROL

CONTRACT NO. 2438J
DRAWING NO. R-1.1
FILE NO. 100,686.1
REV. NO. 2

ALIGNMENT A

Line and Curve Table							
Number	Length	Radius	Delta	Line/Chord Direction	Chord Length	Start	End
L1	30.90			S14° 48' 45.62"W		(5000.2870,10682.5974)	(4970.4124,10674.6971)
C1	210.14	645.00	18.67	S5° 28' 45.55"W	209.21	(4970.4124,10674.6971)	(4762.1584,10654.7204)
C2	86.40	100.00	49.51	S20° 53' 55.78"W	83.74	(4762.1584,10654.7204)	(4683.9265,10624.8484)
C3	66.65	40.00	95.47	S2° 04' 57.80"E	59.20	(4683.9265,10624.8484)	(4624.7628,10627.0000)
C4	148.56	210.00	40.53	S70° 04' 59.19"E	145.48	(4624.7628,10627.0000)	(4575.2044,10763.7775)
L2	31.88			N89° 39' 03.31"E		(4575.2044,10763.7775)	(4575.3987,10795.6562)

ALIGNMENT B

Line and Curve Table							
Number	Length	Radius	Delta	Line/Chord Direction	Chord Length	Start	End
C5	220.91	650.00	19.47	S5° 48' 00.61"W	219.85	(4980.8456,10653.1016)	(4762.1208,10630.8837)
C6	139.37	78.00	102.37	S47° 15' 00.06"W	121.55	(4762.1208,10630.8837)	(4679.6103,10541.6244)
C7	15.25	680.00	1.28	N80° 55' 17.18"W	15.25	(4679.6103,10541.6244)	(4682.0159,10526.5701)
C8	405.01	435.00	53.35	S73° 02' 51.67"W	390.54	(4682.0159,10526.5701)	(4568.1429,10152.9967)
C9	98.47	115.00	49.06	S70° 54' 15.76"W	95.49	(4568.1429,10152.9967)	(4536.9043,10062.7626)
L3	130.98			N84° 33' 56.78"W		(4536.9043,10062.7626)	(4549.3089,9932.3673)
C10	34.57	340.00	5.83	N87° 28' 43.60"W	34.56	(4549.3089,9932.3673)	(4550.8290,9897.8435)

ALIGNMENT C

Line and Curve Table							
Number	Length	Radius	Delta	Line/Chord Direction	Chord Length	Start	End
L4	197.46			N44° 57' 17.59"W		(4484.0472,10733.3258)	(4623.7846,10593.8083)
C11	71.34	120.00	34.06	N61° 59' 06.64"W	70.29	(4623.7846,10593.8083)	(4656.8000,10531.7540)
C12	149.06	420.00	20.33	N89° 10' 57.95"W	148.28	(4656.8000,10531.7540)	(4658.9149,10383.4898)
C13	245.53	400.00	35.17	S63° 03' 53.94"W	241.70	(4658.9149,10383.4898)	(4549.4317,10168.0131)
C14	114.06	130.00	50.27	S70° 36' 53.07"W	110.43	(4549.4317,10168.0131)	(4512.7765,10063.8393)
L5	133.49			N84° 15' 01.97"W		(4512.7765,10063.8393)	(4526.1495,9931.0195)

MEDIAN 1 FLOWLINE

Line and Curve Table							
Number	Length	Bearing/Delta	Radius	Chord Direction	Chord Length	Start	End
C15	48.14		690.00	S12° 00' 11"W	48.131	(4970.256, 10666.027)	(4923.177, 10656.017)
C16	8.92		4.00	S74° 08' 09"E	7.183	(4972.220, 10659.118)	(4970.256, 10666.027)
C17	221.99		650.00	N4° 58' 32"E	220.912	(4752.140, 10639.957)	(4972.220, 10659.118)
C18	31.55		65.00	N15° 00' 54"E	31.246	(4721.961, 10631.862)	(4752.140, 10639.957)
C19	72.74		82.00	N47° 32' 10"E	70.381	(4674.445, 10579.942)	(4721.961, 10631.862)
C20	37.92		66.00	N84° 15' 46"E	37.400	(4670.706, 10542.729)	(4674.445, 10579.942)
C21	143.52		410.00	S87° 47' 00"E	142.785	(4676.228, 10400.051)	(4670.706, 10542.729)
C22	254.63		418.00	N65° 52' 05"E	250.707	(4573.730, 10171.254)	(4676.228, 10400.051)
C23	9.84		3.50	N28° 42' 43"W	6.904	(4567.674, 10174.571)	(4573.730, 10171.254)
L8	21.08	S50° 02' 27.49"W				(4581.212, 10190.729)	(4567.674, 10174.571)
C25	26.63		85.00	S29° 13' 37"E	26.370	(4643.385, 10866.047)	(4620.372, 10618.922)
C26	162.95		215.00	S70° 31' 35"E	159.080	(4620.372, 10618.922)	(4567.339, 10768.902)
C27	10.90		5.00	S8° 50' 13"E	8.867	(4567.339, 10768.902)	(4558.577, 10770.265)
C28	67.23		400.00	S50° 42' 30"W	67.146	(4558.577, 10770.265)	(4516.055, 10718.298)
C29	6.21		5.00	N86° 53' 43"W	5.819	(4516.055, 10718.298)	(4516.370, 10712.487)
L6	20.08	N45° 01' 42.88"W				(4516.370, 10712.487)	(4530.559, 10698.283)

MEDIAN 2 FLOWLINE

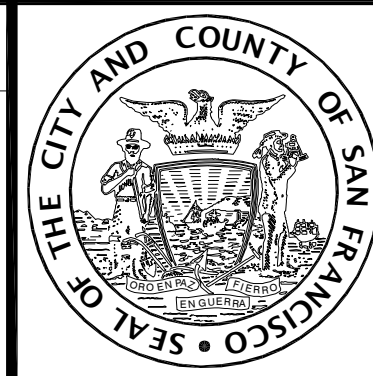
Line and Curve Table							
Number	Length	Bearing/Delta	Radius	Chord Direction	Chord Length	Start	End
C30	23.33		112.00	N69° 36' 07"E	23.283	(4523.440, 10105.830)	(4531.555, 10127.654)
C31	10.44		4.00	N26° 06' 40"W	7.718	(4531.555, 10127.654)	(4538.485, 10124.257)
C32	60.72		105.00	S80° 13' 37"W	59.881	(4538.485, 10124.257)	(4528.321, 10065.245)
L7	133.50	N84° 26' 53.78"W				(4528.321, 10065.245)	(4541.236, 9932.371)
C33	34.94		175.00	S89° 07' 08"W	34.886	(4541.236, 9932.371)	(4540.700, 9897.490)

REFER TO FILE 100,686.2 REVISION 0 FOR MANAGEMENT SIGNATURES

NO.	DATE	DESCRIPTION	BY	APP.
2	5/27/16	CONCRETE GUTTER & CURB	IL	DC
1	3/31/16	CURB NOSING ALIGNMENT	IL	DC

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 07/19/16 14:34, BY: iiliang

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE: I.LIANG 1/16
DRAWN: DATE: I.LIANG 1/16
CHECKED: DATE: D.CALLEROS 1/16

APPROVED
SECTION MANAGER DATE:
DEPUTY DIVISION MANAGER DATE:
DIVISION MANAGER DATE:

SCALE: NTS
SHEET OF SHEETS

SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS
ROADWAY
SAN MARCOS AVENUE & SANTA RITA AVENUE
LINE AND CURVE TABLES

CONTRACT NO. 2438J
DRAWING NO. R-1.2
FILE NO. 100,686.2
REV. NO. 2

DEMOLITION LEGEND



APPROXIMATE AREA FOR DEMOLITION AND RECONSTRUCTION
DIMENSION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
SEE PAVING PLANS FOR LOCATION & DETAILS



(E)RAILING TO BE REMOVED AND RECONSTRUCTED
SEE PAVEMENT PLANS FOR LOCATION, SEE STRUCTURAL PLANS FOR DETAILS



(E)TREES TO REMAIN, PROTECT IN PLACE



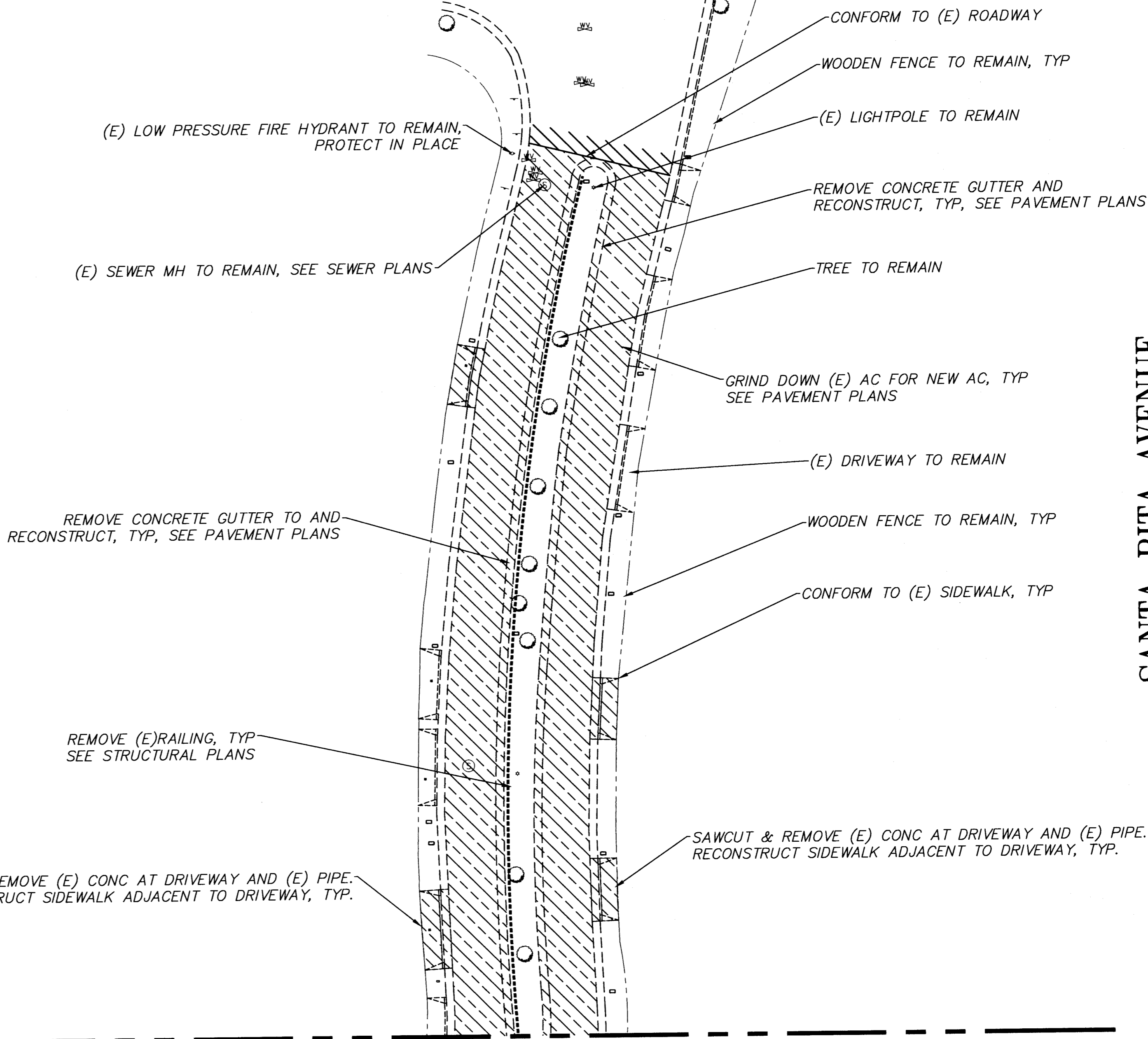
(E)UTILITIES TO REMAIN, PROTECT IN PLACE



MESA AVENUE

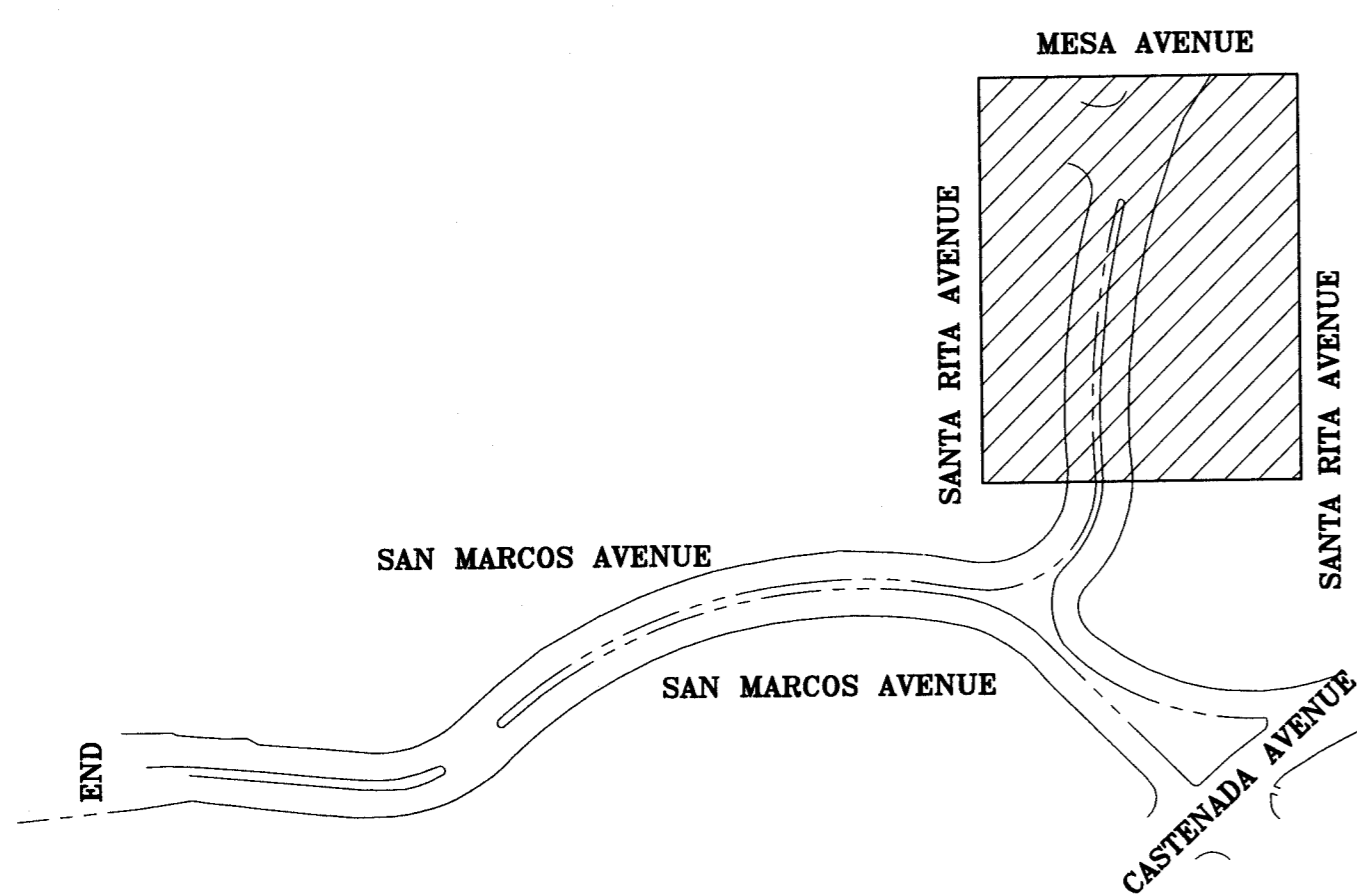
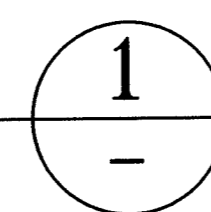
SANTA RITA AVENUE

SANTA RITA AVENUE



MATCH LINE "A", SEE R-2.2

SITE PLAN
NOT TO SCALE

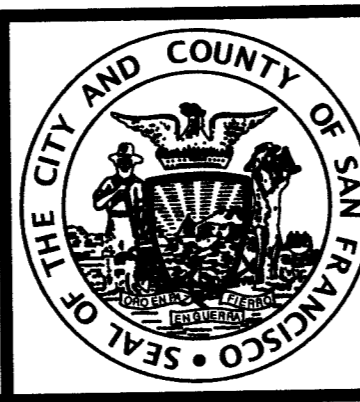


KEY PLAN

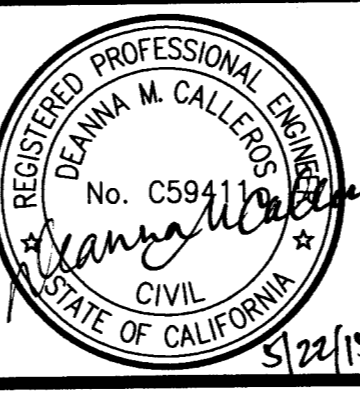
NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

THIS DRAWING WAS LAST MODIFIED: 05/21/15 17:19, BY: liliang

REFERENCE INFORMATION
& FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



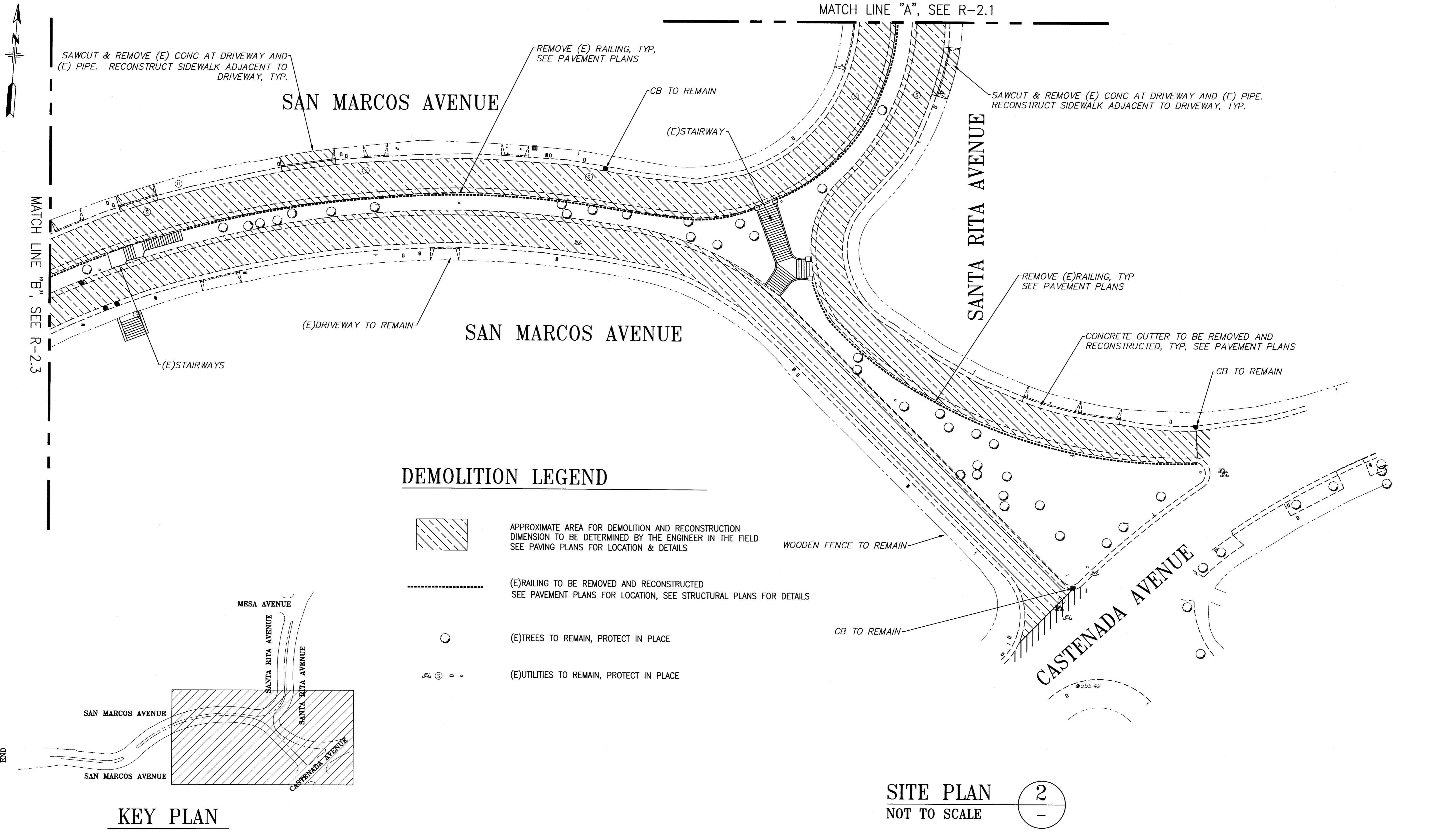
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DRAWN: I.LIANG	DATE: 1/15	SECTION MANAGER: <i>[Signature]</i>	DATE: 5/15
CHECKED: <i>[Signature]</i>	DATE: 5/15	DEPUTY DIVISION MANAGER: <i>[Signature]</i>	DATE: 6/15
D. CALLEROS	5/15	DIVISION MANAGER: <i>[Signature]</i>	DATE: 6/15

SCALE: 1"=20'
SHEET OF SHEETS: 5 OF 39

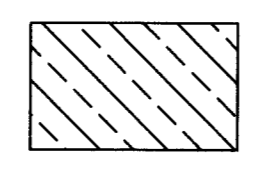


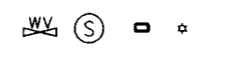
SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS
EXISTING CONDITIONS AND DEMOLITION PLAN

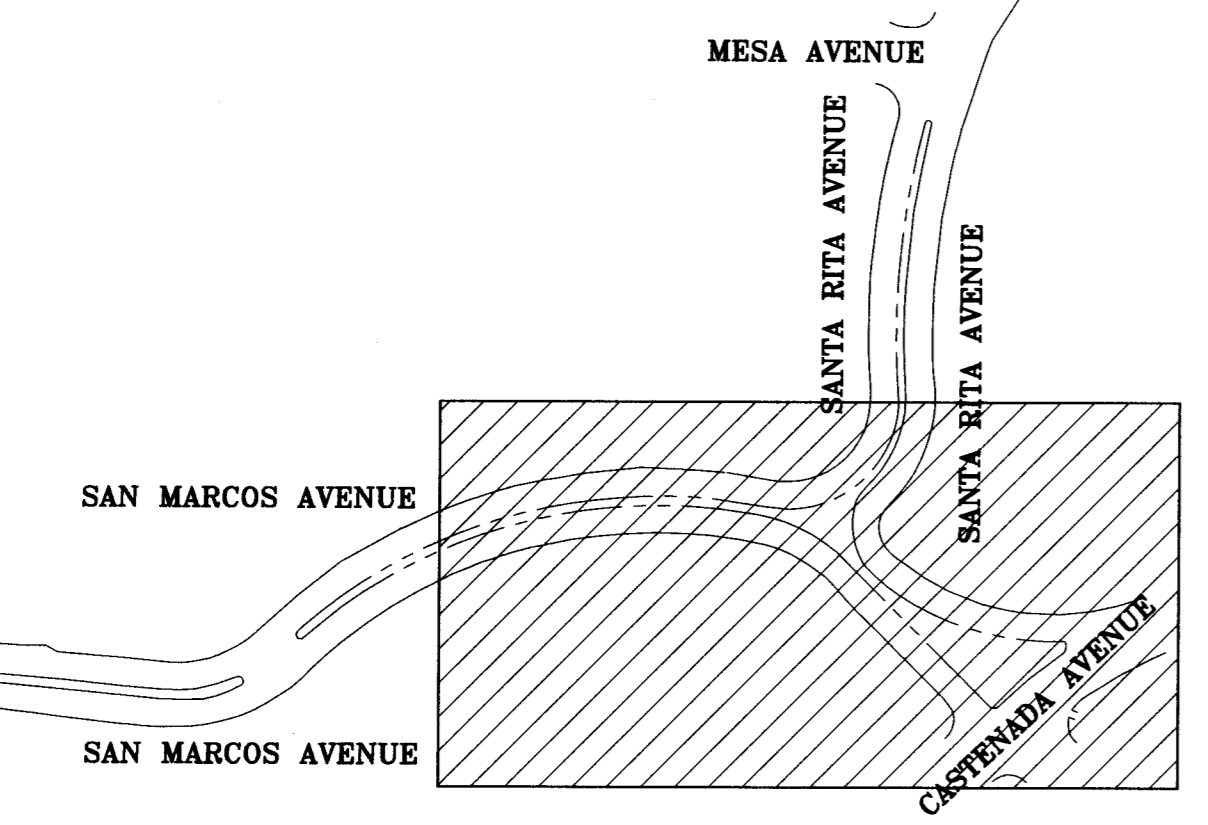
CONTRACT NO.	2438J
DRAWING NO.	R-2.1
FILE NO.	100,687
REV. NO.	0

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 Plot Time: Fri, 22 May 2015 - 2:07pm
 Measurement Units are English
 Model Units: Feet



DEMOLITION LEGEND

-  APPROXIMATE AREA FOR DEMOLITION AND RECONSTRUCTION DIMENSION TO BE DETERMINED BY THE ENGINEER IN THE FIELD SEE PAVING PLANS FOR LOCATION & DETAILS
-  (E) RAILING TO BE REMOVED AND RECONSTRUCTED SEE PAVEMENT PLANS FOR LOCATION, SEE STRUCTURAL PLANS FOR DETAILS
-  (E) TREES TO REMAIN, PROTECT IN PLACE
-  (E) UTILITIES TO REMAIN, PROTECT IN PLACE



KEY PLAN

SITE PLAN (2)
NOT TO SCALE

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

THIS DRAWING WAS LAST MODIFIED: 05/21/15 17:19, BY: liliang

REFERENCE INFORMATION
& FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: I. LIANG 1/15
DRAWN: I. LIANG 1/15
CHECKED: D. CALLEROS 5/15

APPROVED
SECTION MANAGER: *[Signature]* 5/15
DEPUTY DIVISION MANAGER: *[Signature]* 6/15
DIVISION MANAGER: *[Signature]* 6/15

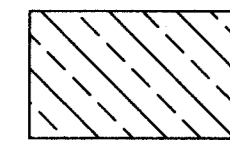
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SHEET OF SHEETS: 6 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS
EXISTING CONDITIONS AND DEMOLITION PLAN

CONTRACT NO. 2438J
DRAWING NO. R-2.2
FILE NO. 100,688
REV. NO. 0

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 Model Units: Feet

DEMOLITION LEGEND



APPROXIMATE AREA FOR DEMOLITION AND RECONSTRUCTION
DIMENSION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
SEE PAVING PLANS FOR LOCATION & DETAILS



(E)RAILING TO BE REMOVED AND RECONSTRUCTED
SEE PAVEMENT PLANS FOR LOCATION, SEE STRUCTURAL PLANS FOR DETAILS



(E)TREES TO REMAIN, PROTECT IN PLACE



(E)UTILITIES TO REMAIN, PROTECT IN PLACE



SAN MARCOS AVENUE

END

APPROXIMATE AREA FOR DEMOLITION AND RECONSTRUCTION
SEE PAVEMENT PLANS

REMOVE (E)RAILING, TYP
SEE PAVEMENT PLANS

CB TO REMAIN

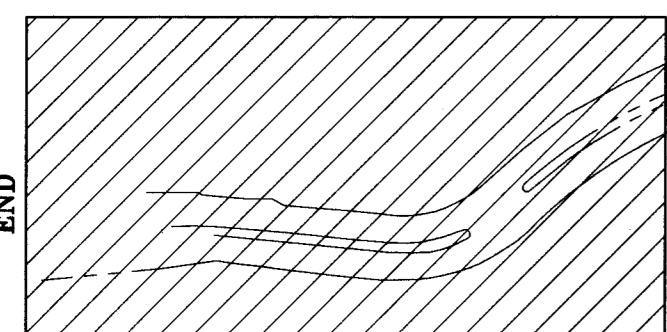
MATCH LINE "B", SEE R-2.2

(E) WOODEN FENCE TO REMAIN

CONFORM TO (E) ROADWAY

SAN MARCOS AVENUE

SAWCUT & REMOVE (E) CONC AT DRIVEWAY AND
(E) PIPE. RECONSTRUCT SIDEWALK ADJACENT TO
DRIVEWAY, TYP.



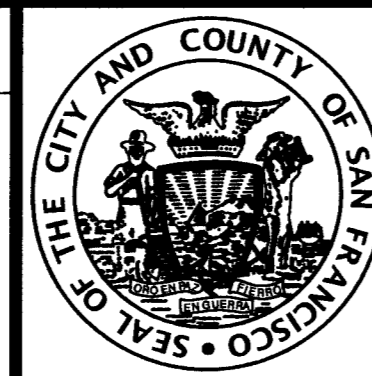
KEY PLAN

SITE PLAN
NOT TO SCALE

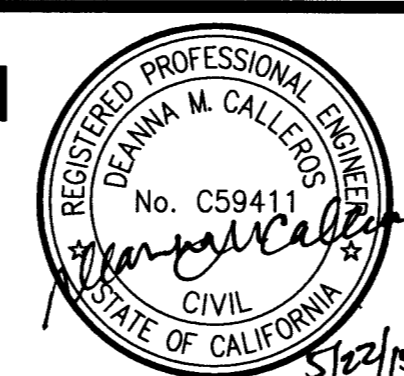
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NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
THIS DRAWING WAS LAST MODIFIED: 05/21/15 17:19, BY: iliang				

REFERENCE INFORMATION
& FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



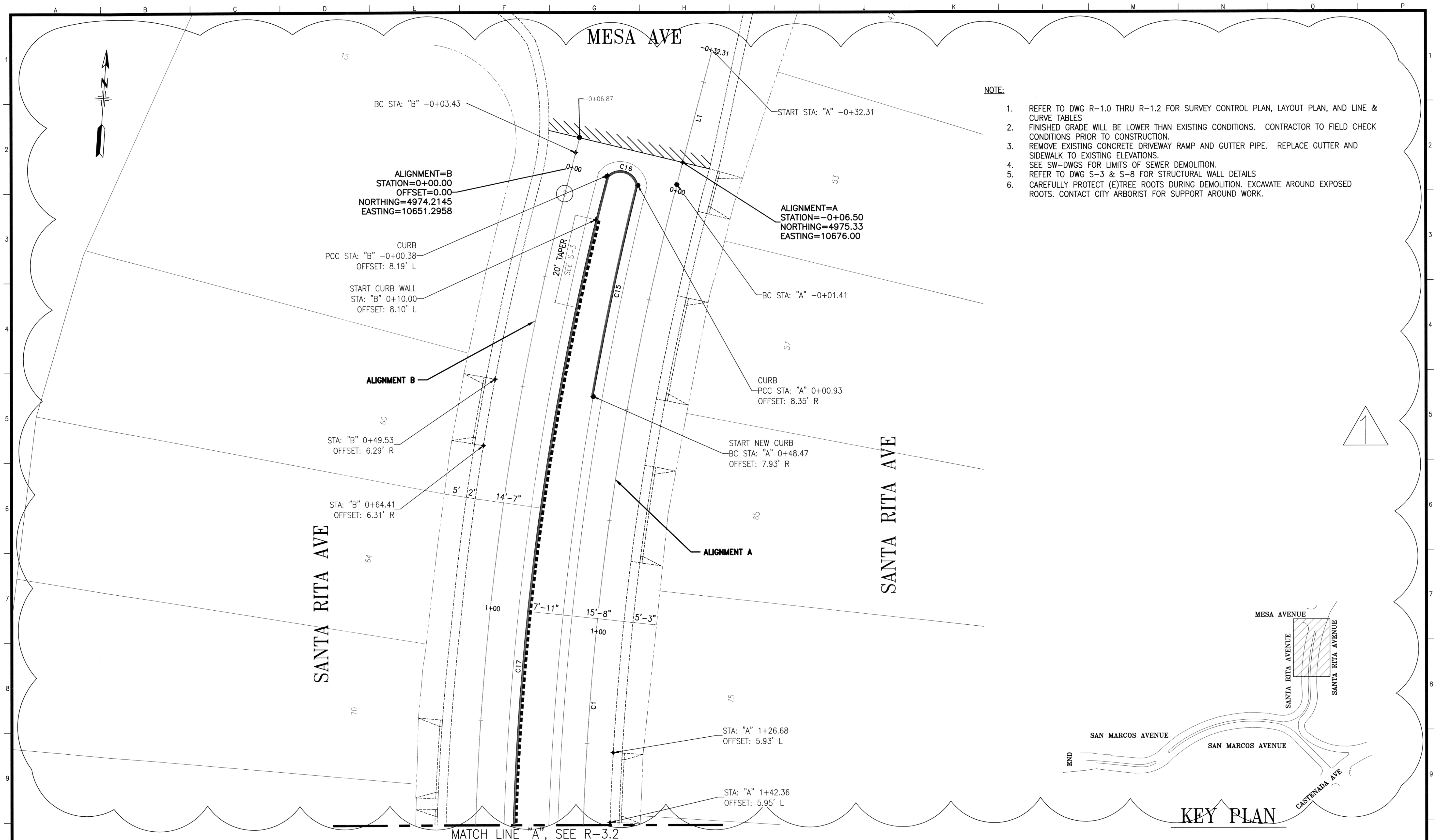
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DRAWN: I.LIANG	DATE: 1/15	SECTION MANAGER: [Signature]	DATE: 5/15
CHECKED: D.CALLEROS	DATE: 5/15	DEPUTY DIVISION MANAGER: [Signature]	DATE: 6/15
		DIVISION MANAGER: [Signature]	DATE:

SCALE: 1"=20'
SHEET OF SHEETS: 7 OF 39

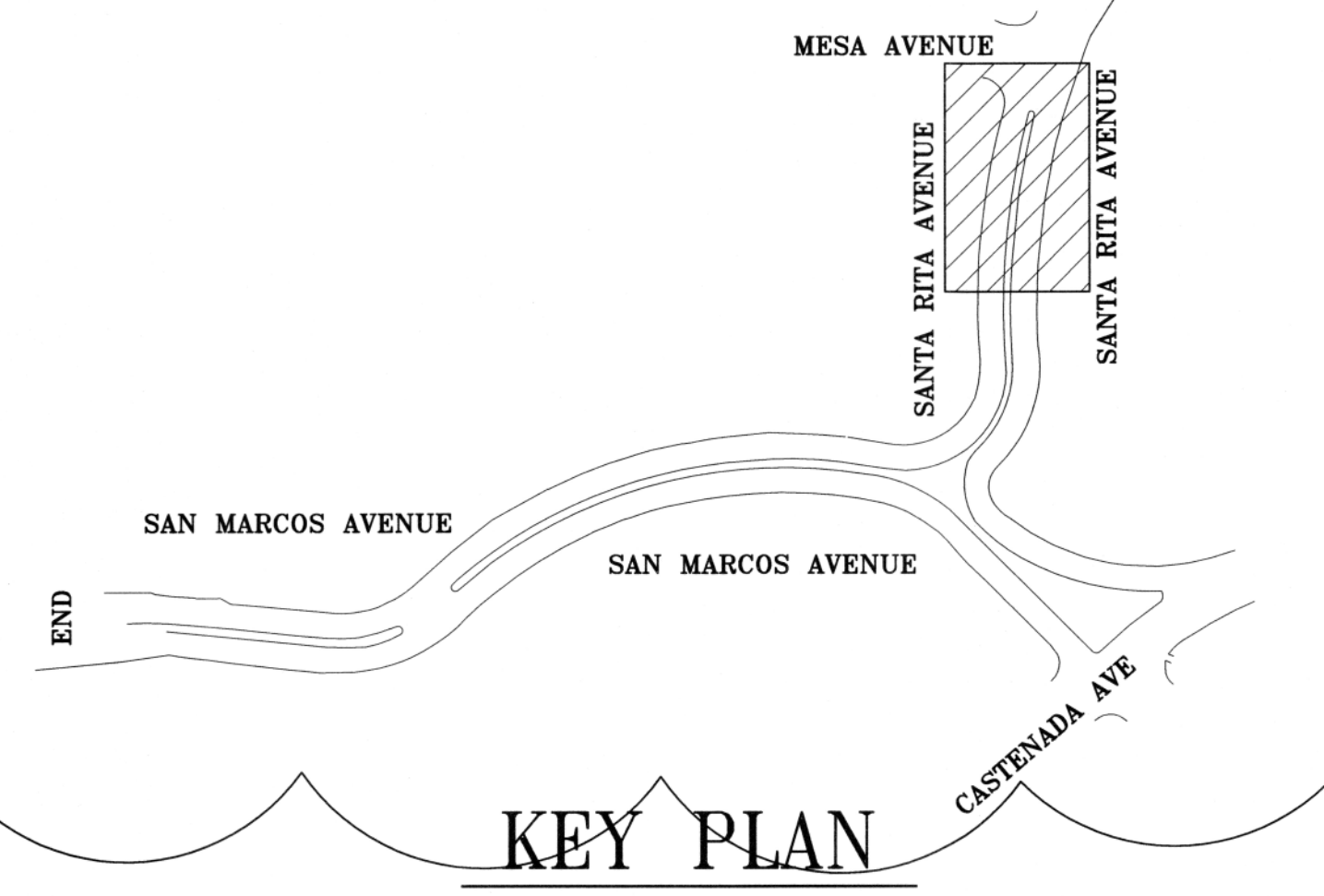
SAN MARCOS AVENUE & SANTA RITA AVENUE ROADWAY IMPROVEMENTS
ROADWAY EXISTING CONDITIONS AND DEMOLITION PLAN

CONTRACT NO. 2438J
DRAWING NO. R-2.3
FILE NO. 100,689
REV. NO. 0

Drawing Path: V:\2408J_Santa_Rita_Ave_San_Marcos_Ave_Pavement_Renovation\B00E9_IBD_IL.dwg
 Plot Time: Fri, 22 May 2015 2:09pm
 Model Units: Feet



- NOTE:**
1. REFER TO DWG R-1.0 THRU R-1.2 FOR SURVEY CONTROL PLAN, LAYOUT PLAN, AND LINE & CURVE TABLES
 2. FINISHED GRADE WILL BE LOWER THAN EXISTING CONDITIONS. CONTRACTOR TO FIELD CHECK CONDITIONS PRIOR TO CONSTRUCTION.
 3. REMOVE EXISTING CONCRETE DRIVEWAY RAMP AND GUTTER PIPE. REPLACE GUTTER AND SIDEWALK TO EXISTING ELEVATIONS.
 4. SEE SW-DWGS FOR LIMITS OF SEWER DEMOLITION.
 5. REFER TO DWG S-3 & S-8 FOR STRUCTURAL WALL DETAILS
 6. CAREFULLY PROTECT (E)TREE ROOTS DURING DEMOLITION. EXCAVATE AROUND EXPOSED ROOTS. CONTACT CITY ARBORIST FOR SUPPORT AROUND WORK.



MATCH LINE "A", SEE R-3.2

NO.	DATE	DESCRIPTION	BY	APP.
1	1/4/16	ALIGNMENT CHANGE	IL	DC

TABLE OF REVISIONS

THIS DRAWING WAS LAST MODIFIED: 02/12/16 08:31, BY: iliang

REFERENCE INFORMATION
& FILE NO. OF SURVEYS

INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

REGISTERED PROFESSIONAL ENGINEER
DEANNA M. CALLEROS
No. C59411
CIVIL
STATE OF CALIFORNIA

DESIGNED:	DATE:	APPROVED
I.LIANG	1/15	<i>[Signature]</i> 3/11/16
DRAWN:	DATE:	SECTION MANAGER
I.LIANG	1/15	<i>[Signature]</i> 3/16/16
CHECKED:	DATE:	DEPUTY DIVISION MANAGER
D.CALLEROS	4/15	<i>[Signature]</i> 4/16
		DIVISION MANAGER

SCALE:	1"=10'
SHEET OF SHEETS	8 OF 39

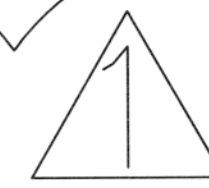
**SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS**

**ROADWAY
HORIZONTAL ALIGNMENT PLAN**

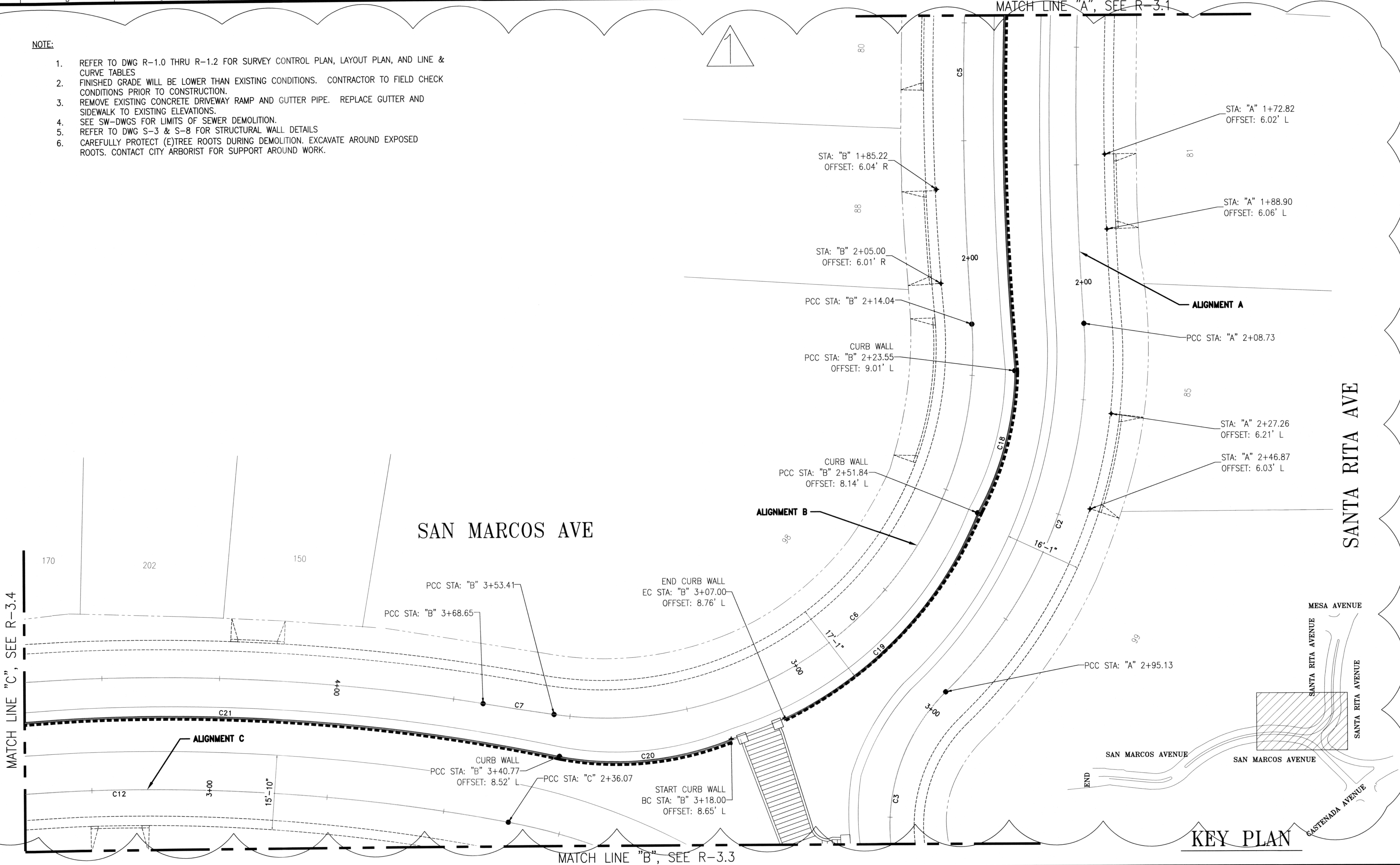
CONTRACT NO.	2438J
DRAWING NO.	R-3.1
FILE NO.	100,690
REV. NO.	1

NOTE:

1. REFER TO DWG R-1.0 THRU R-1.2 FOR SURVEY CONTROL PLAN, LAYOUT PLAN, AND LINE & CURVE TABLES
2. FINISHED GRADE WILL BE LOWER THAN EXISTING CONDITIONS. CONTRACTOR TO FIELD CHECK CONDITIONS PRIOR TO CONSTRUCTION.
3. REMOVE EXISTING CONCRETE DRIVEWAY RAMP AND GUTTER PIPE. REPLACE GUTTER AND SIDEWALK TO EXISTING ELEVATIONS.
4. SEE SW-DWGS FOR LIMITS OF SEWER DEMOLITION.
5. REFER TO DWG S-3 & S-8 FOR STRUCTURAL WALL DETAILS.
6. CAREFULLY PROTECT (E)TREE ROOTS DURING DEMOLITION. EXCAVATE AROUND EXPOSED ROOTS. CONTACT CITY ARBORIST FOR SUPPORT AROUND WORK.



MATCH LINE "A", SEE R-3.1



MATCH LINE "C", SEE R-3.4

MATCH LINE "B", SEE R-3.3

KEY PLAN

NO.	DATE	DESCRIPTION	BY	APP.
1	1/4/16	ALIGNMENT CHANGE	IL	DC

TABLE OF REVISIONS

THIS DRAWING WAS LAST MODIFIED: 02/12/16 08:31, BY: iliang

REFERENCE INFORMATION
& FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE: 1/15
I.LIANG
DRAWN: DATE: 1/15
I.LIANG
CHECKED: DATE: 4/15
D.CALLEROS

APPROVED
SECTION MANAGER DATE: 3/16/16
DEPUTY DIVISION MANAGER DATE: 3/16/16
DIVISION MANAGER DATE: 3/16/16

SCALE:
1"=10'
SHEET OF SHEETS
9 OF 39

**SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS**

**ROADWAY
HORIZONTAL ALIGNMENT PLAN**

CONTRACT NO. 2458J
DRAWING NO. R-3.2
FILE NO. 100,691
REV. NO. 1

MATCH LINE "B" SEE R-3.2

SANTA RITA AVE

SAN MARCOS AVE

CASTENADA AVE

KEY PLAN

- NOTE:**
- REFER TO DWG R-1.0 THRU R-1.2 FOR SURVEY CONTROL PLAN, LAYOUT PLAN, AND LINE & CURVE TABLES.
 - FINISHED GRADE WILL BE LOWER THAN EXISTING CONDITIONS. CONTRACTOR TO FIELD CHECK CONDITIONS PRIOR TO CONSTRUCTION.
 - REMOVE EXISTING CONCRETE DRIVEWAY RAMP AND GUTTER PIPE. REPLACE GUTTER AND SIDEWALK TO EXISTING ELEVATIONS.
 - SEE SW-DWGS FOR LIMITS OF SEWER DEMOLITION.
 - REFER TO DWG S-3 & S-8 FOR STRUCTURAL WALL DETAILS.
 - CAREFULLY PROTECT (E)TREE ROOTS DURING DEMOLITION. EXCAVATE AROUND EXPOSED ROOTS. CONTACT CITY ARBORIST FOR SUPPORT AROUND WORK.

END CURB WALL
EC STA: "A" 3+37.00
OFFSET: 8.26' R

PCC STA: "A" 3+61.78

CURB WALL
PCC STA: "A" 3+59.04
OFFSET: 8.68' R

ALIGNMENT=A
CONFORM STATION=5+15.19
NORTHING=4575.23
EASTING=10768.63

ALIGNMENT=A
END STATION=5+42.22
NORTHING=4575.40
EASTING=10795.66

START CURB WALL
BC STA: "A" 5+15.00
OFFSET: 7.91' R

START NEW CURB
STA: "C" 0+24.95
OFFSET: 8.07' R

CURB
BC STA: "C" 0+04.87
OFFSET: 8.09' R

CURB
PCC STA: "C" 0+00.54
OFFSET: 11.98' R

ALIGNMENT=C
STATION=0+00.00
NORTHING=4507.21
EASTING=10710.20

START STA: "C" -0+32.73

MESA AVENUE

SANTA RITA AVENUE

SANTA RITA AVENUE

SAN MARCOS AVENUE

SAN MARCOS AVENUE

CASTENADA AVENUE

REFERENCE INFORMATION
& FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE: 1/15
DRAWN: DATE: 1/15
CHECKED: DATE: 4/15

APPROVED
SECTION MANAGER DATE: 3/10/16
DEPUTY DIVISION MANAGER DATE: 3/10/16
DIVISION MANAGER DATE: 3/10/16

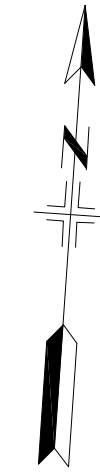
SCALE: 1"=10'
SHEET OF SHEETS: 10 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS
ROADWAY
HORIZONTAL ALIGNMENT PLAN

CONTRACT NO. 2438J
DRAWING NO. R-3.3
FILE NO. 100,692
REV. NO. 1

NO.	DATE	DESCRIPTION	BY	APP.
1	1/4/16	ALIGNMENT CHANGE	IL	DC

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 02/12/16 08:31, BY: illiang



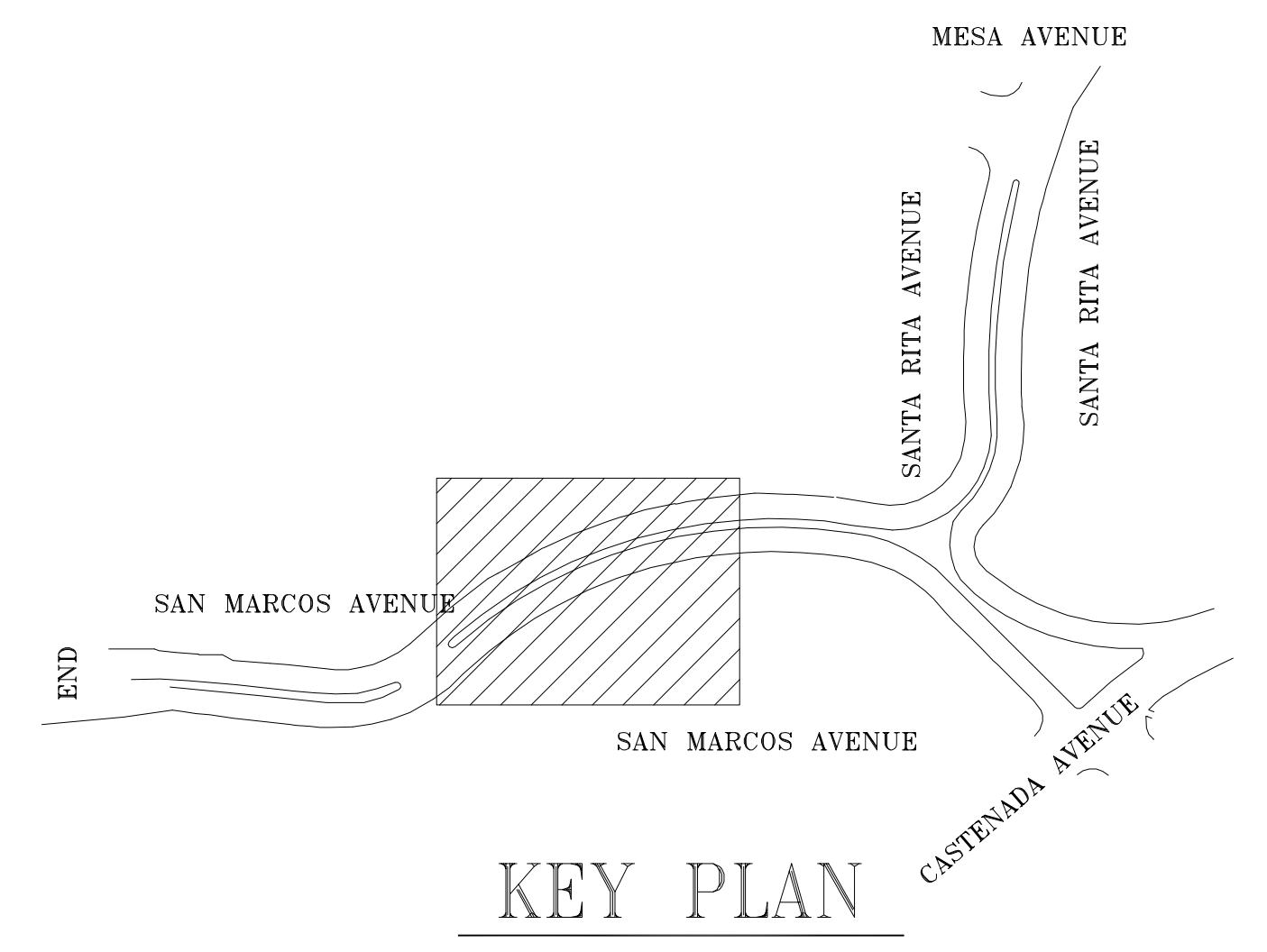
NOTE:

1. REFER TO DWG R-1.0 THRU R-1.2 FOR SURVEY CONTROL PLAN, LAYOUT PLAN, AND LINE & CURVE TABLES
2. FINISHED GRADE WILL BE LOWER THAN EXISTING CONDITIONS. CONTRACTOR TO FIELD CHECK CONDITIONS PRIOR TO CONSTRUCTION.
3. REMOVE EXISTING CONCRETE DRIVEWAY RAMP AND GUTTER PIPE. REPLACE GUTTER AND SIDEWALK TO EXISTING ELEVATIONS.
4. SEE SW-DWGS FOR LIMITS OF SEWER DEMOLITION.
5. REFER TO DWG S-3 & S-8 FOR STRUCTURAL WALL DETAILS
6. CAREFULLY PROTECT (E)TREE ROOTS DURING DEMOLITION. EXCAVATE AROUND EXPOSED ROOTS. CONTACT CITY ARBORIST FOR SUPPORT AROUND WORK.

SAN MARCOS AVENUE

SAN MARCOS AVENUE

REFER TO FILE 100,693 REVISION 1 FOR MANAGEMENT SIGNATURES



KEY PLAN

NO.	DATE	DESCRIPTION	BY	APP.
3	5/27/16	CONCRETE GUTTER & CURB	IL	DC
2	3/31/16	CURB NOSING ALIGNMENT	IL	DC
1	1/4/16	ALIGNMENT CHANGE	IL	DC

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 06/02/16 15:21, BY: jliang

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



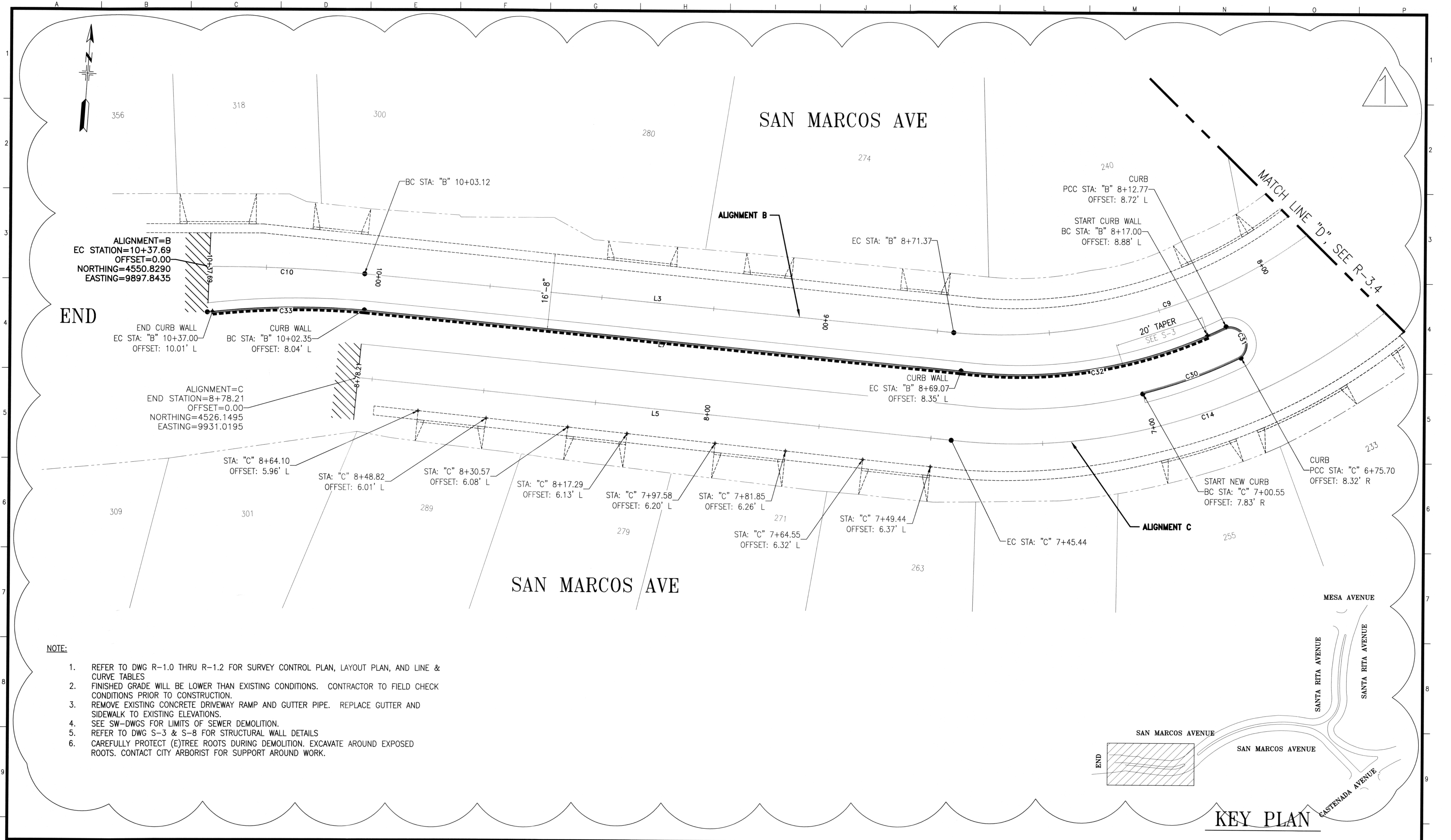
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DRAWN: I.LIANG	DATE: 1/15
CHECKED: D.CALLEROS	DATE: 4/15

APPROVED	
SECTION MANAGER	DATE:
DEPUTY DIVISION MANAGER	DATE:
DIVISION MANAGER	DATE:

SCALE: 1"=10'
SHEET OF SHEETS: 11 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE ROADWAY IMPROVEMENTS
ROADWAY HORIZONTAL ALIGNMENT PLAN

CONTRACT NO. 2438J
DRAWING NO. R-3.4
FILE NO. 100,693
REV. NO. 3

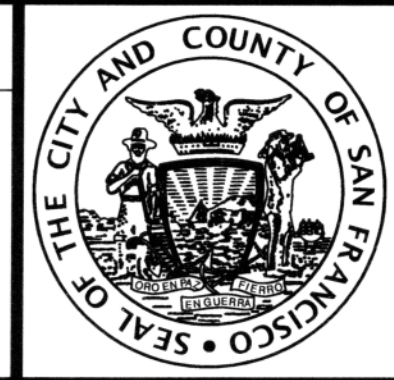


- NOTE:**
- REFER TO DWG R-1.0 THRU R-1.2 FOR SURVEY CONTROL PLAN, LAYOUT PLAN, AND LINE & CURVE TABLES
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NO.	DATE	DESCRIPTION	BY	APP.
1	1/4/16	ALIGNMENT CHANGE	IL	DC

TABLE OF REVISIONS
 THIS DRAWING WAS LAST MODIFIED: 02/12/16 08:31, BY: iliang

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO

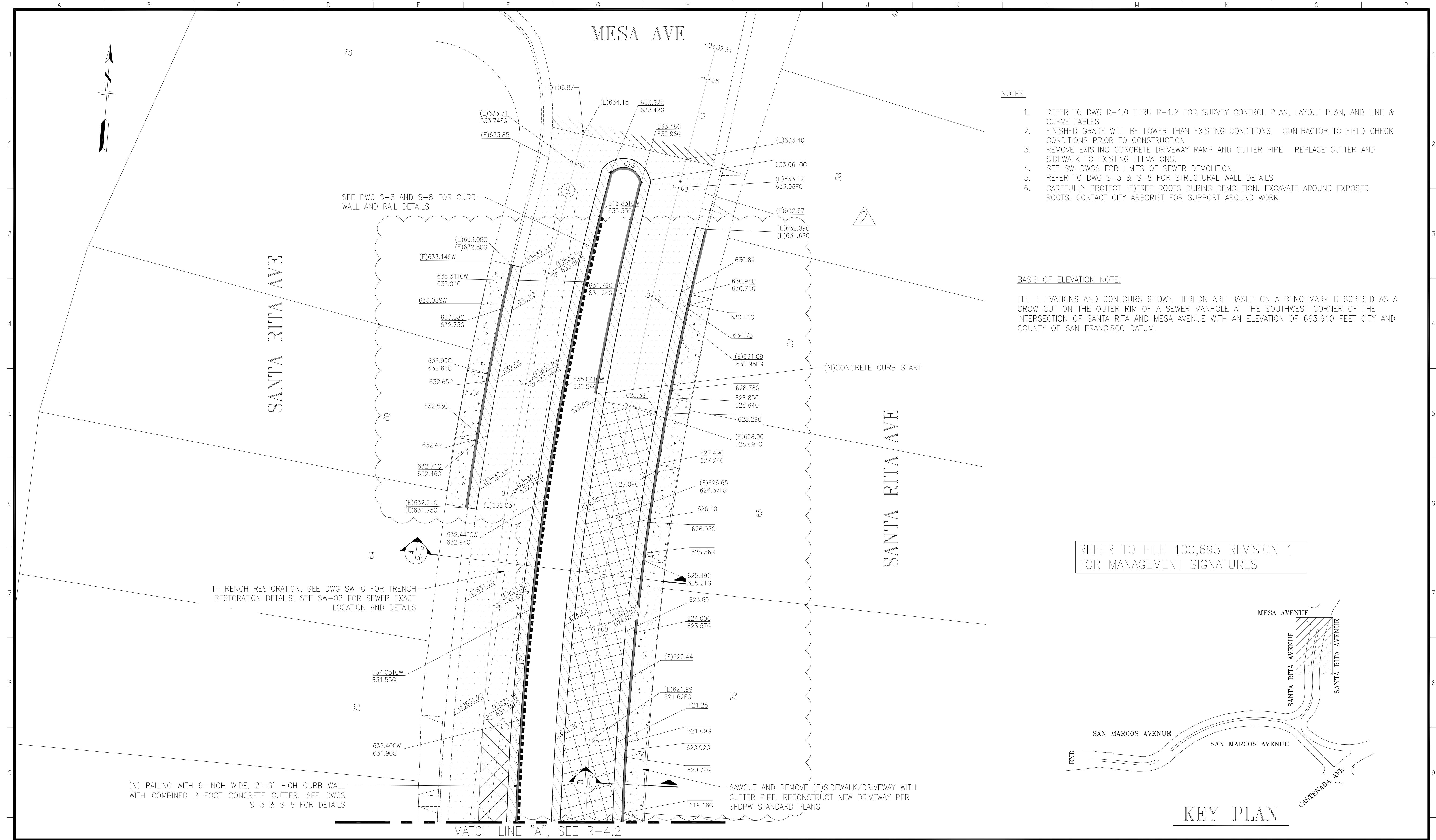


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DRAWN: I.LIANG	DATE: 1/15	SECTION MANAGER: [Signature]	DATE: 3/10/16
CHECKED: D.CALLEROS	DATE: 4/15	DEPUTY DIVISION MANAGER: [Signature]	DATE: 3/10/16
		DIVISION MANAGER: [Signature]	DATE:

SCALE: 1"=10'
 SHEET OF SHEETS: 12 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
 ROADWAY IMPROVEMENTS
 ROADWAY HORIZONTAL ALIGNMENT PLAN

CONTRACT NO. 2438J
DRAWING NO. R-3.5
FILE NO. 100,694
REV. NO. 0



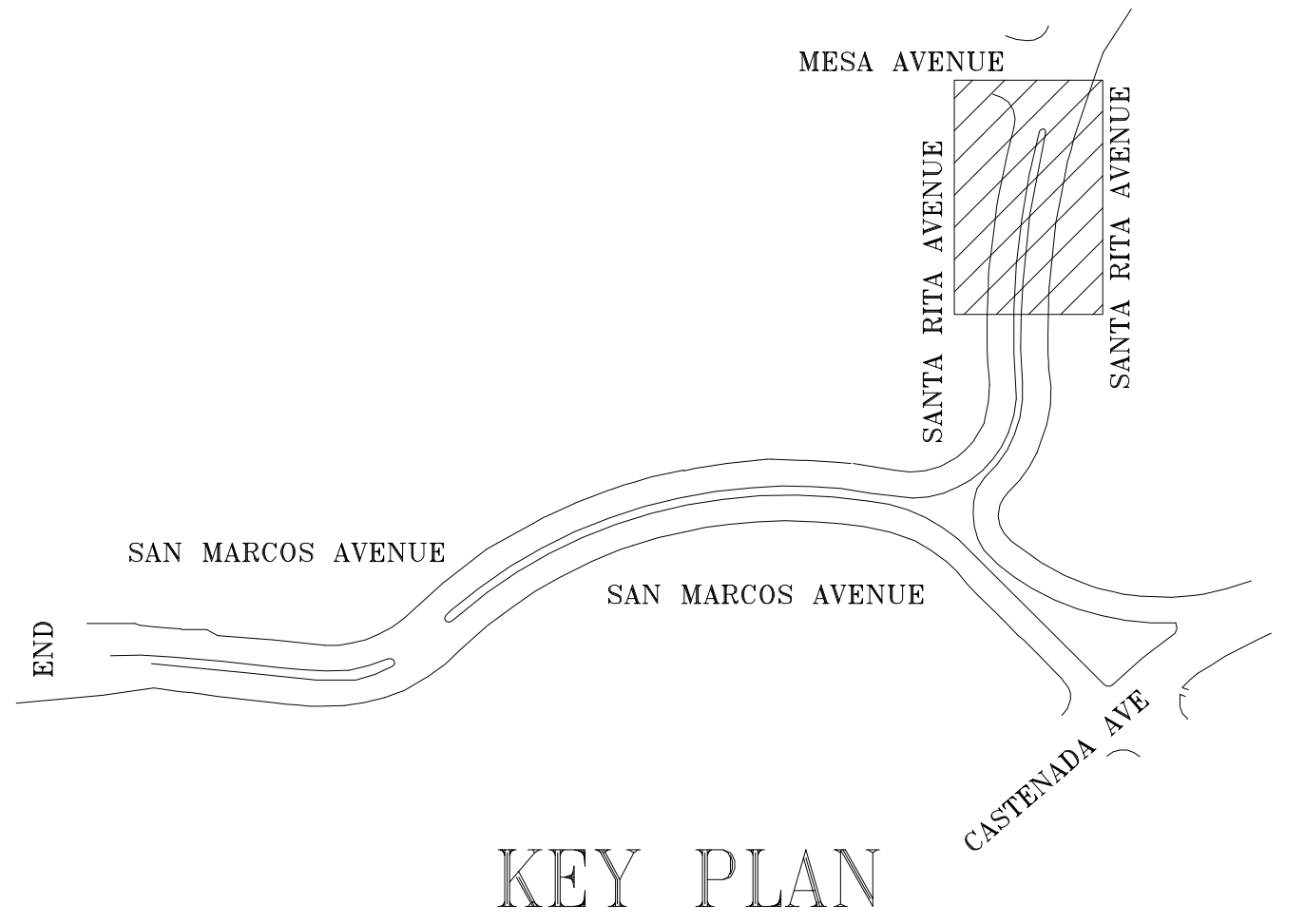
NOTES:

1. REFER TO DWG R-1.0 THRU R-1.2 FOR SURVEY CONTROL PLAN, LAYOUT PLAN, AND LINE & CURVE TABLES
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BASIS OF ELEVATION NOTE:

THE ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED ON A BENCHMARK DESCRIBED AS A CROW CUT ON THE OUTER RIM OF A SEWER MANHOLE AT THE SOUTHWEST CORNER OF THE INTERSECTION OF SANTA RITA AND MESA AVENUE WITH AN ELEVATION OF 663.610 FEET CITY AND COUNTY OF SAN FRANCISCO DATUM.

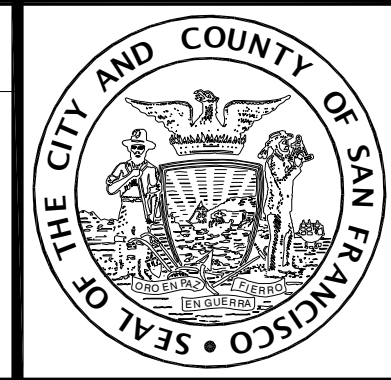
REFER TO FILE 100,695 REVISION 1 FOR MANAGEMENT SIGNATURES



NO.	DATE	DESCRIPTION	BY	APP.
2	7/1/16	ADD'L INFORMATION	IL	DC
1	1/4/16	ADD'L INFORMATION, ALIGNMENT CHANGE	IL	DC

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 07/18/16 17:45, BY: jliang

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



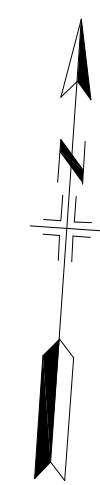
DESIGNED: DATE: I.LIANG 1/15
DRAWN: DATE: I.LIANG 1/15
CHECKED: DATE: D.CALLEROS 4/15

APPROVED
SECTION MANAGER DATE:
DEPUTY DIVISION MANAGER DATE:
DIVISION MANAGER DATE:

SCALE: 1:20
SHEET OF SHEETS: 13 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS
ROADWAY PAVING AND VERTICAL ALIGNMENT PLAN

CONTRACT NO. 2438J
DRAWING NO. R-4.1
FILE NO. 100,695
REV. NO. 2



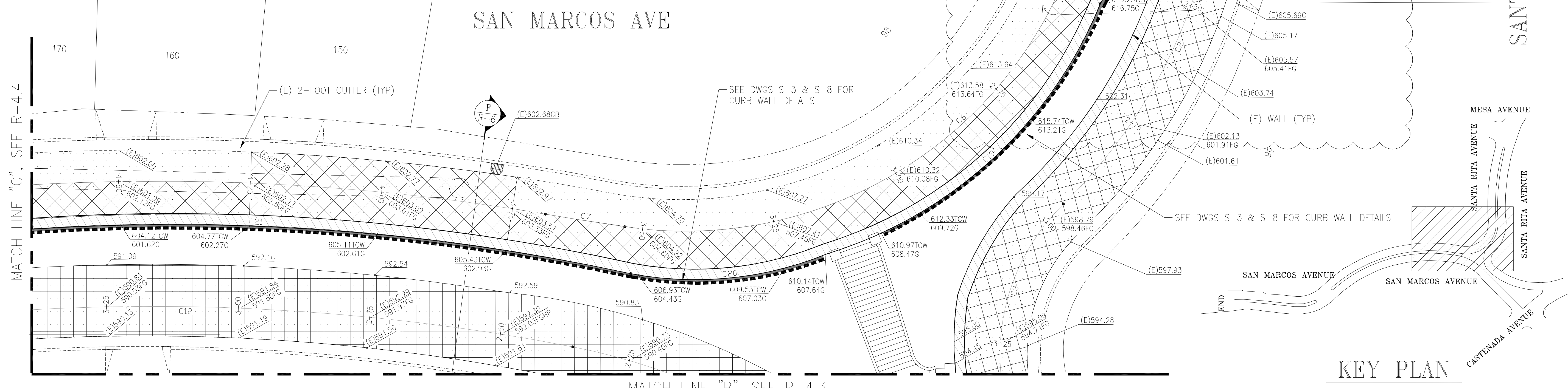
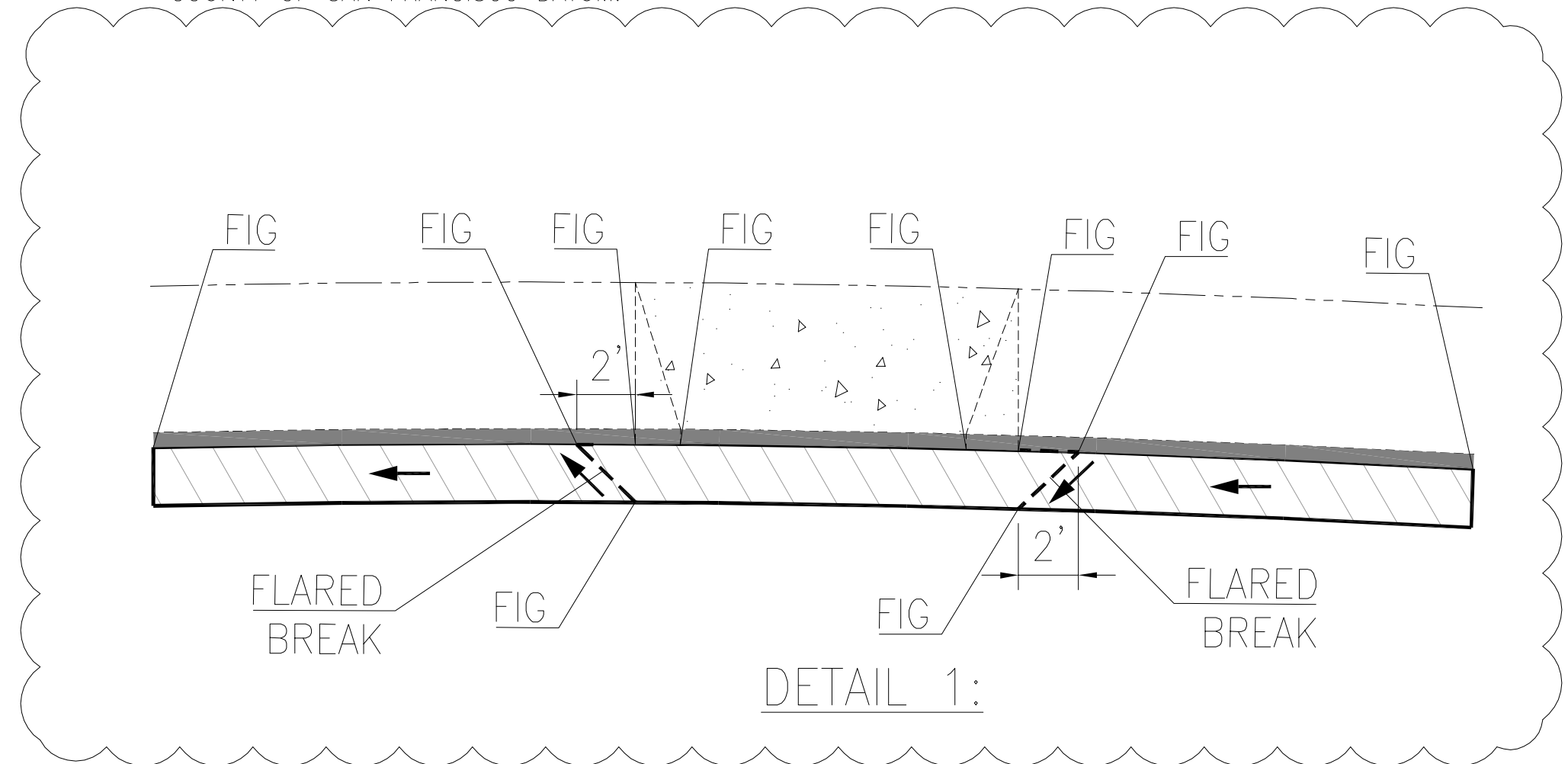
NOTES:

1. REFER TO DWG R-1.0 THRU R-1.2 FOR SURVEY CONTROL PLAN, LAYOUT PLAN, AND LINE & CURVE TABLES
2. FINISHED GRADE WILL BE LOWER THAN EXISTING CONDITIONS. CONTRACTOR TO FIELD CHECK CONDITIONS PRIOR TO CONSTRUCTION.
3. REMOVE EXISTING CONCRETE DRIVEWAY RAMP AND GUTTER PIPE. REPLACE GUTTER AND SIDEWALK TO EXISTING ELEVATIONS.
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6. CAREFULLY PROTECT (E)TREE ROOTS DURING DEMOLITION. EXCAVATE AROUND EXPOSED ROOTS. CONTACT CITY ARBORIST FOR SUPPORT AROUND WORK.

BASIS OF ELEVATION NOTE:

THE ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED ON A BENCHMARK DESCRIBED AS A CROW CUT ON THE OUTER RIM OF A SEWER MANHOLE AT THE SOUTHWEST CORNER OF THE INTERSECTION OF SANTA RITA AND MESA AVENUE WITH AN ELEVATION OF 663.610 FEET CITY AND COUNTY OF SAN FRANCISCO DATUM.

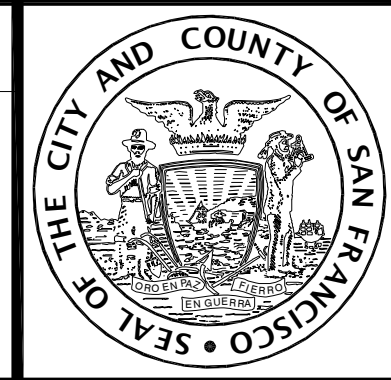
REFER TO FILE 100,696 REVISION 1 FOR MANAGEMENT SIGNATURES



NO.	DATE	DESCRIPTION	BY	APP.
2	7/1/16	ADD'L INFORMATION, SCOPE MODIFIED	IL	DC
1	1/4/16	ADD'L INFORMATION, ALIGNMENT CHANGE	IL	DC

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 07/18/16 17:45, BY: jliang

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



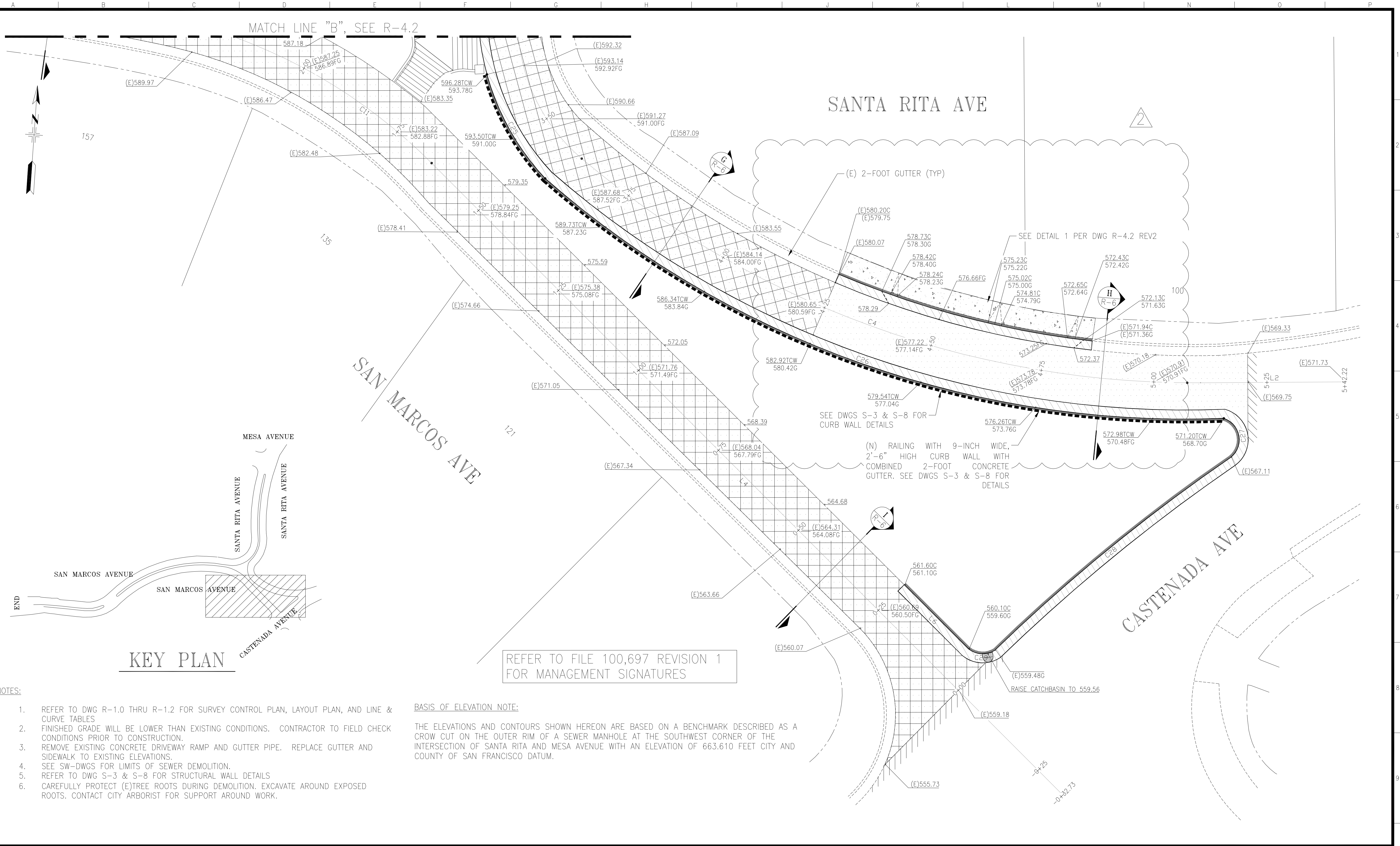
DESIGNED: I.LIANG	DATE: 1/15
DRAWN: I.LIANG	DATE: 1/15
CHECKED: D.CALLEROS	DATE: 4/15

APPROVED	DATE:
SECTION MANAGER	DATE:
DEPUTY DIVISION MANAGER	DATE:
DIVISION MANAGER	DATE:

SCALE: 1:20
SHEET OF SHEETS: 14 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS
ROADWAY PAVING AND VERTICAL ALIGNMENT PLAN

CONTRACT NO. 2438J
DRAWING NO. R-4.2
FILE NO. 100,696
REV. NO. 2



MATCH LINE "B", SEE R-4.2

SANTA RITA AVE

SAN MARCOS AVE

CASTENADA AVE

KEY PLAN

REFER TO FILE 100,697 REVISION 1 FOR MANAGEMENT SIGNATURES

- NOTES:**
1. REFER TO DWG R-1.0 THRU R-1.2 FOR SURVEY CONTROL PLAN, LAYOUT PLAN, AND LINE & CURVE TABLES
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 6. CAREFULLY PROTECT (E)TREE ROOTS DURING DEMOLITION. EXCAVATE AROUND EXPOSED ROOTS. CONTACT CITY ARBORIST FOR SUPPORT AROUND WORK.

BASIS OF ELEVATION NOTE:
 THE ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED ON A BENCHMARK DESCRIBED AS A CROW CUT ON THE OUTER RIM OF A SEWER MANHOLE AT THE SOUTHWEST CORNER OF THE INTERSECTION OF SANTA RITA AND MESA AVENUE WITH AN ELEVATION OF 663.610 FEET CITY AND COUNTY OF SAN FRANCISCO DATUM.

NO.	DATE	DESCRIPTION	BY	APP.
2	7/1/16	ADD'L INFORMATION	IL	DC
1	1/4/16	ADD'L INFORMATION, ALIGNMENT CHANGE	IL	DC

TABLE OF REVISIONS
 THIS DRAWING WAS LAST MODIFIED: 07/18/16 17:45, BY: jliang

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE: I.LIANG 1/15
 DRAWN: DATE: I.LIANG 1/15
 CHECKED: DATE: D.CALLEROS 4/15

APPROVED
 SECTION MANAGER DATE:
 DEPUTY DIVISION MANAGER DATE:
 DIVISION MANAGER DATE:

SCALE:
 1:20
 SHEET OF SHEETS
 14 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
 ROADWAY IMPROVEMENTS
 ROADWAY PAVING AND VERTICAL ALIGNMENT PLAN

CONTRACT NO. 2438J
 DRAWING NO. R-4.3
 FILE NO. 100,697
 REV. NO. 2

NOTES:

1. REFER TO DWG R-1.0 THRU R-1.2 FOR SURVEY CONTROL PLAN, LAYOUT PLAN, AND LINE & CURVE TABLES
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T-TRENCH RESTORATION, SEE DWG SW-G FOR TRENCH RESTORATION DETAILS. SEE SW-02 FOR SEWER EXACT LOCATION AND DETAILS

(N) RAILING WITH 9-INCH WIDE, 2'-6" HIGH CURB WALL WITH COMBINED 2-FOOT CONCRETE GUTTER. SEE DWGS S-3 & S-8 FOR DETAILS

SAWCUT AND REMOVE (E)SIDEWALK/DRIVEWAY WITH GUTTER PIPE. RECONSTRUCT NEW DRIVEWAY PER SFPDPW STANDARD PLANS

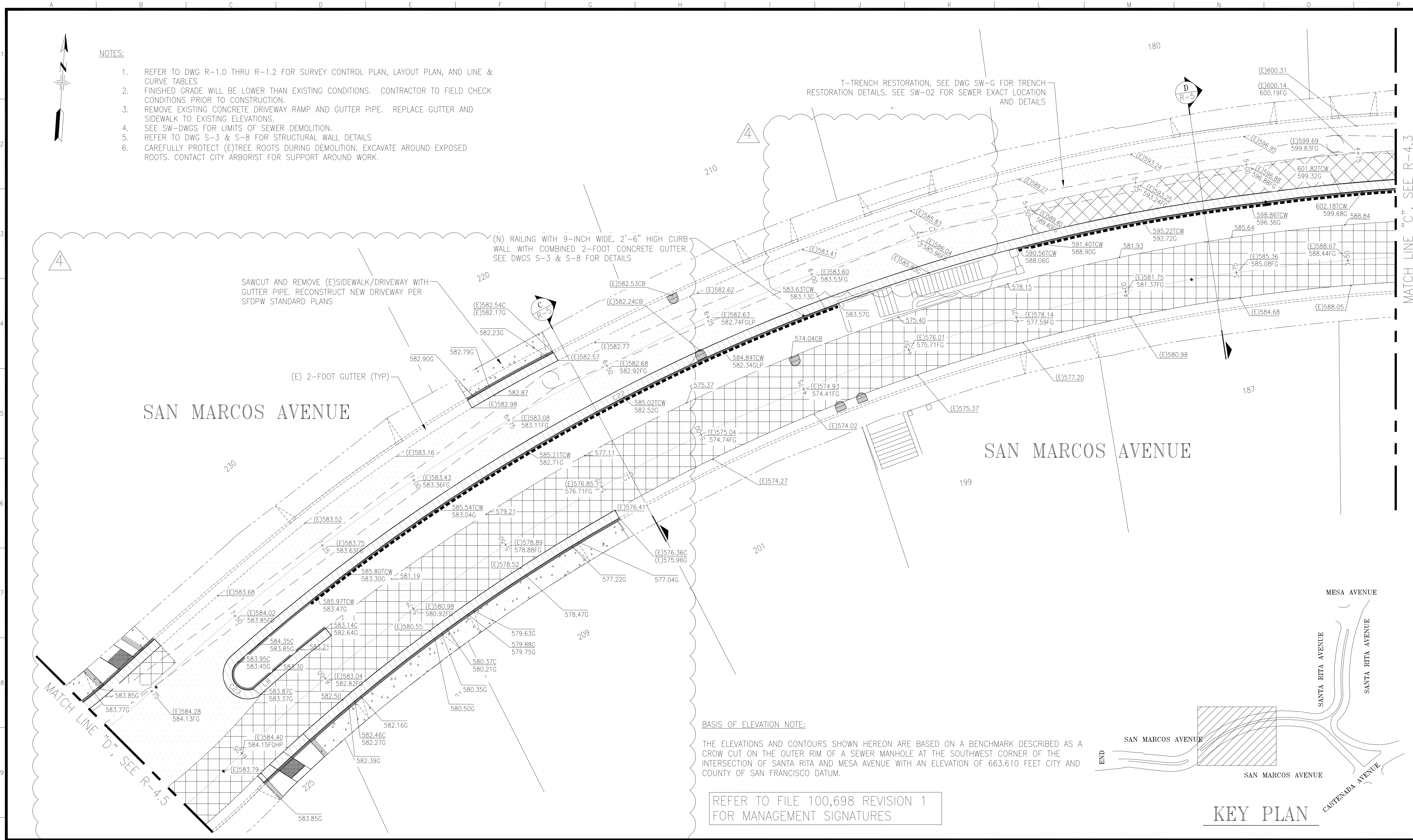
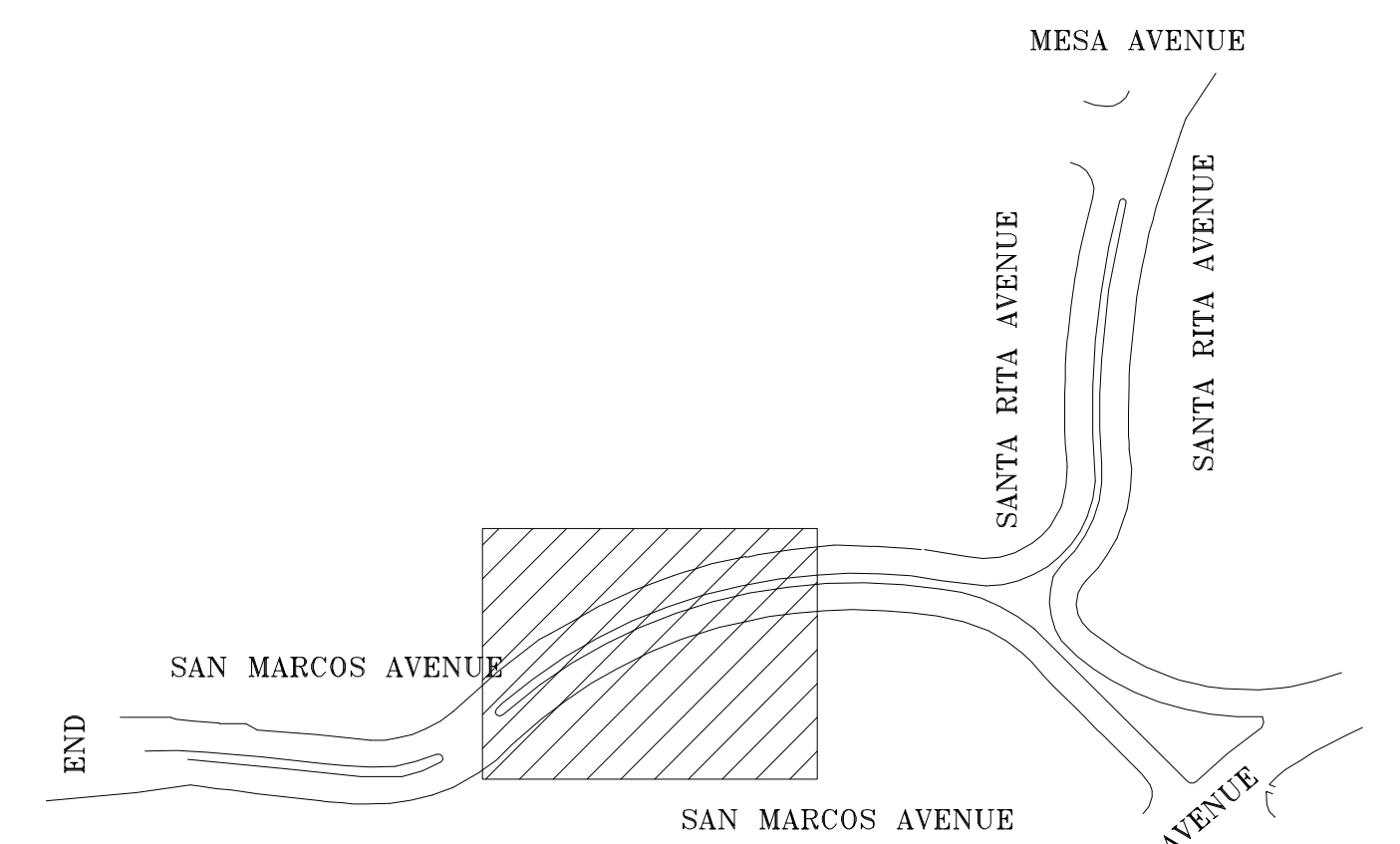
SAN MARCOS AVENUE

SAN MARCOS AVENUE

BASIS OF ELEVATION NOTE:

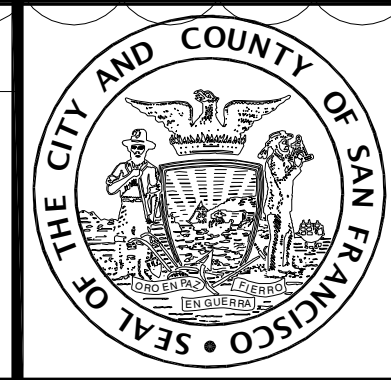
THE ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED ON A BENCHMARK DESCRIBED AS A CROW CUT ON THE OUTER RIM OF A SEWER MANHOLE AT THE SOUTHWEST CORNER OF THE INTERSECTION OF SANTA RITA AND MESA AVENUE WITH AN ELEVATION OF 663.610 FEET CITY AND COUNTY OF SAN FRANCISCO DATUM.

REFER TO FILE 100,698 REVISION 1 FOR MANAGEMENT SIGNATURES



NO.	DATE	DESCRIPTION	BY	APP.
4	7/1/16	ADD'L INFORMATION, SCOPE MODIFIED	IL	DC
3	5/27/16	CONCRETE GUTTER & CURB	IL	DC
2	3/31/16	CURB NOSING ALIGNMENT	IL	DC
1	1/4/16	ADD'L INFORMATION, ALIGNMENT CHANGE	IL	DC

NO.	DATE	DESCRIPTION	BY	APP.
4	7/1/16	ADD'L INFORMATION, SCOPE MODIFIED	IL	DC
3	5/27/16	CONCRETE GUTTER & CURB	IL	DC
2	3/31/16	CURB NOSING ALIGNMENT	IL	DC
1	1/4/16	ADD'L INFORMATION, ALIGNMENT CHANGE	IL	DC



INFRASTRUCTURE DIVISION
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO

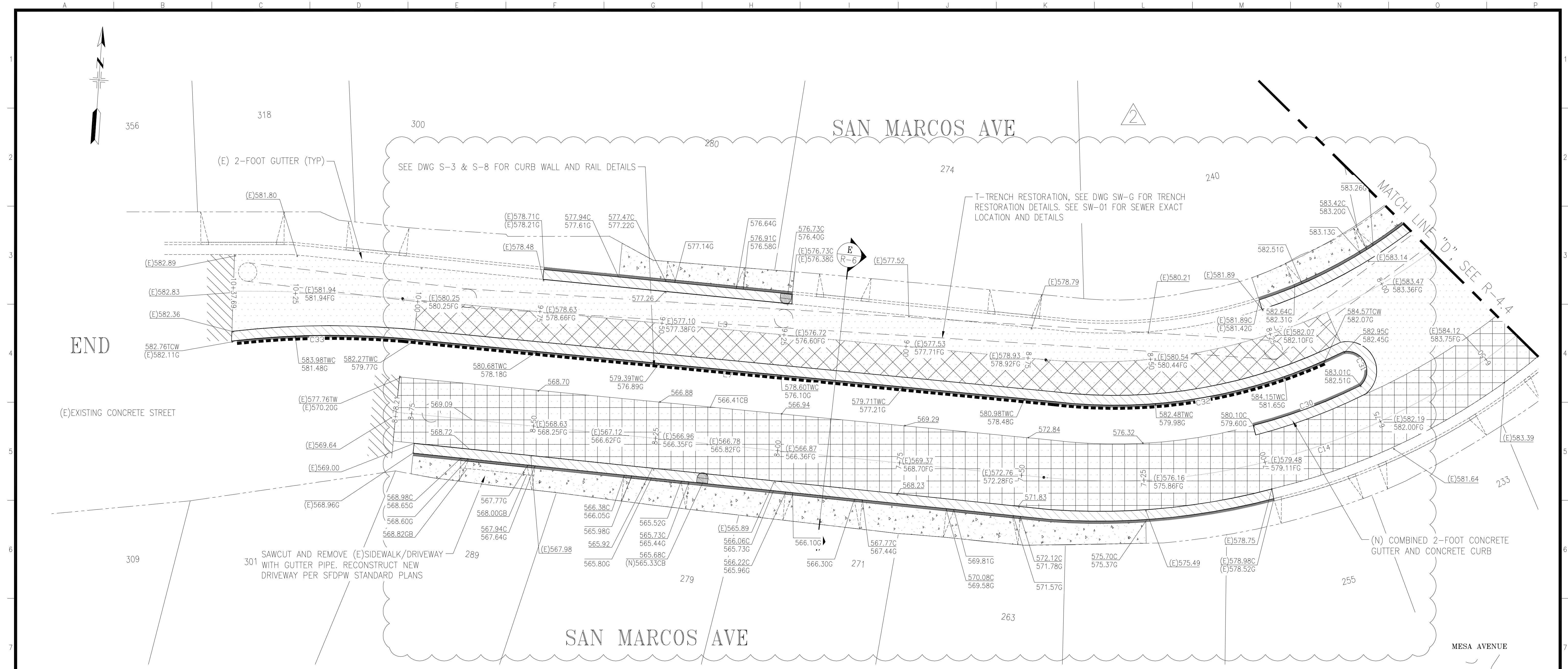


DESIGNED:	DATE:	APPROVED:
I. LIANG	1/15	
DRAWN:	DATE:	SECTION MANAGER DATE:
I. LIANG	1/15	
CHECKED:	DATE:	DEPUTY DIVISION MANAGER DATE:
D. CALLEROS	4/15	
		DIVISION MANAGER DATE:

SCALE:	1:20
SHEET OF SHEETS:	16 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
 ROADWAY IMPROVEMENTS
 ROADWAY
 PAVING AND VERTICAL ALIGNMENT PLAN

CONTRACT NO.	2438J
DRAWING NO.	R-4.4
FILE NO.	100,698
REV. NO.	4



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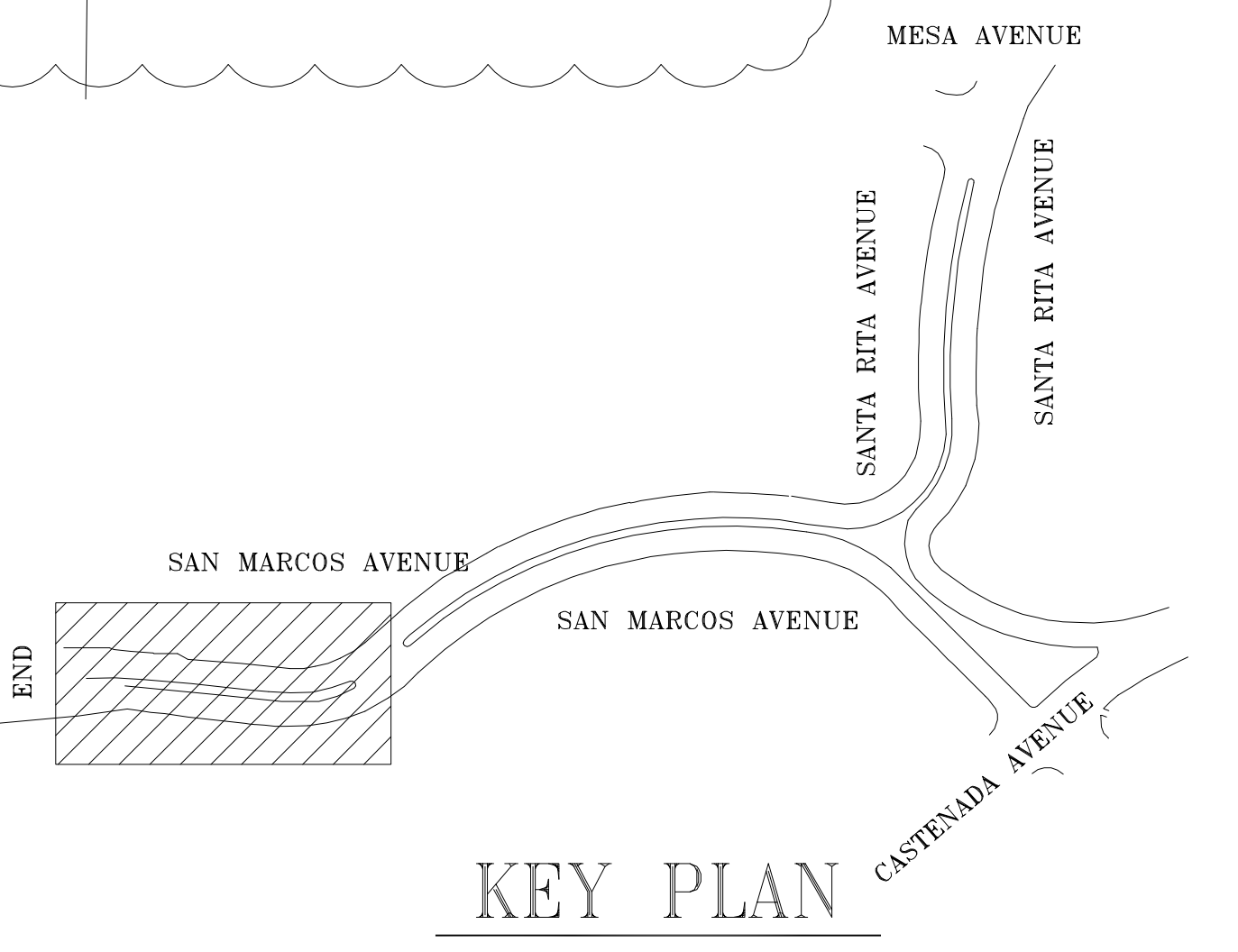
NOTES:

1. REFER TO DWG R-1.0 THRU R-1.2 FOR SURVEY CONTROL PLAN, LAYOUT PLAN, AND LINE & CURVE TABLES
2. FINISHED GRADE WILL BE LOWER THAN EXISTING CONDITIONS. CONTRACTOR TO FIELD CHECK CONDITIONS PRIOR TO CONSTRUCTION.
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REFER TO FILE 100,699 REVISION 1 FOR MANAGEMENT SIGNATURES

BASIS OF ELEVATION NOTE:

THE ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED ON A BENCHMARK DESCRIBED AS A CROW CUT ON THE OUTER RIM OF A SEWER MANHOLE AT THE SOUTHWEST CORNER OF THE INTERSECTION OF SANTA RITA AND MESA AVENUE WITH AN ELEVATION OF 663.610 FEET CITY AND COUNTY OF SAN FRANCISCO DATUM.



REFERENCE INFORMATION & FILE NO. OF SURVEYS		TABLE OF REVISIONS	
NO.	DATE	DESCRIPTION	BY APP.
2	7/1/16	ADD'L INFORMATION	IL DC
1	1/4/16	ADD'L INFORMATION, ALIGNMENT CHANGE	IL DC

THIS DRAWING WAS LAST MODIFIED: 07/18/16 17:45, BY: jliang



INFRASTRUCTURE DIVISION
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO

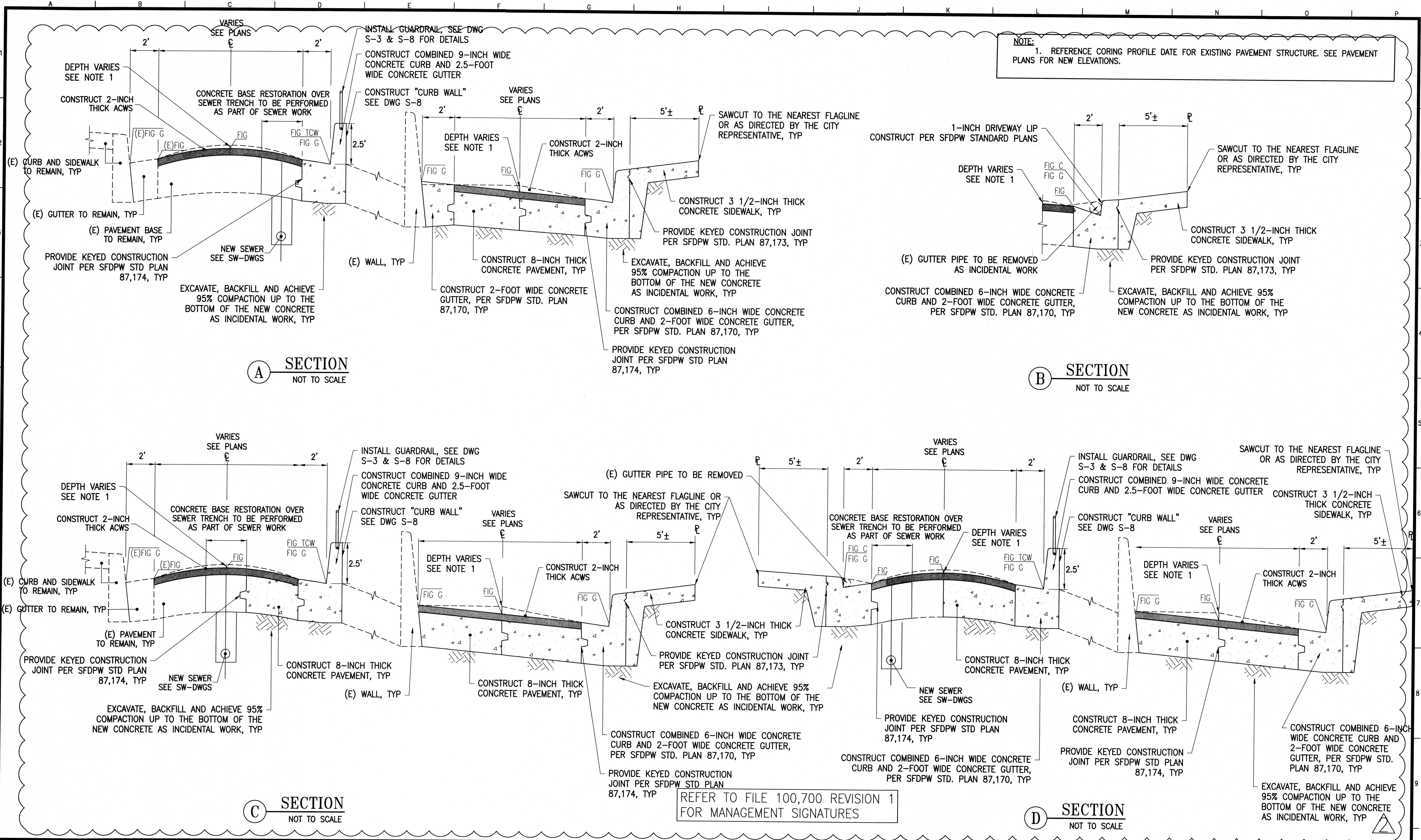


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DRAWN:	DATE:	DEPUTY DIVISION MANAGER	DATE:
I. LIANG	1/15	DIVISION MANAGER	DATE:
CHECKED:	DATE:		
D. CALLEROS	4/15		

SCALE:	1:20
SHEET OF SHEETS:	17 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
 ROADWAY IMPROVEMENTS
 ROADWAY PAVING AND VERTICAL ALIGNMENT PLAN

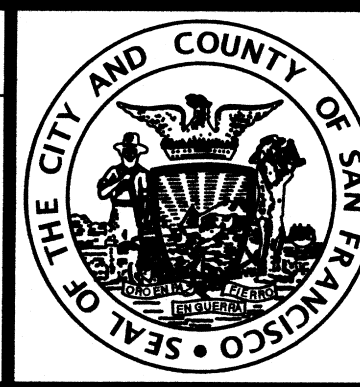
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DRAWING NO.	R-4.5
FILE NO.	100,699
REV. NO.	2



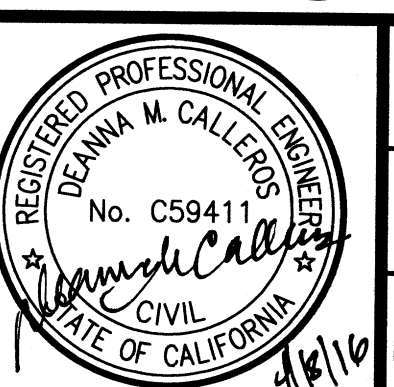
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1	1/4/16	ALIGNMENT CHANGE	IL	DC

TABLE OF REVISIONS
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REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

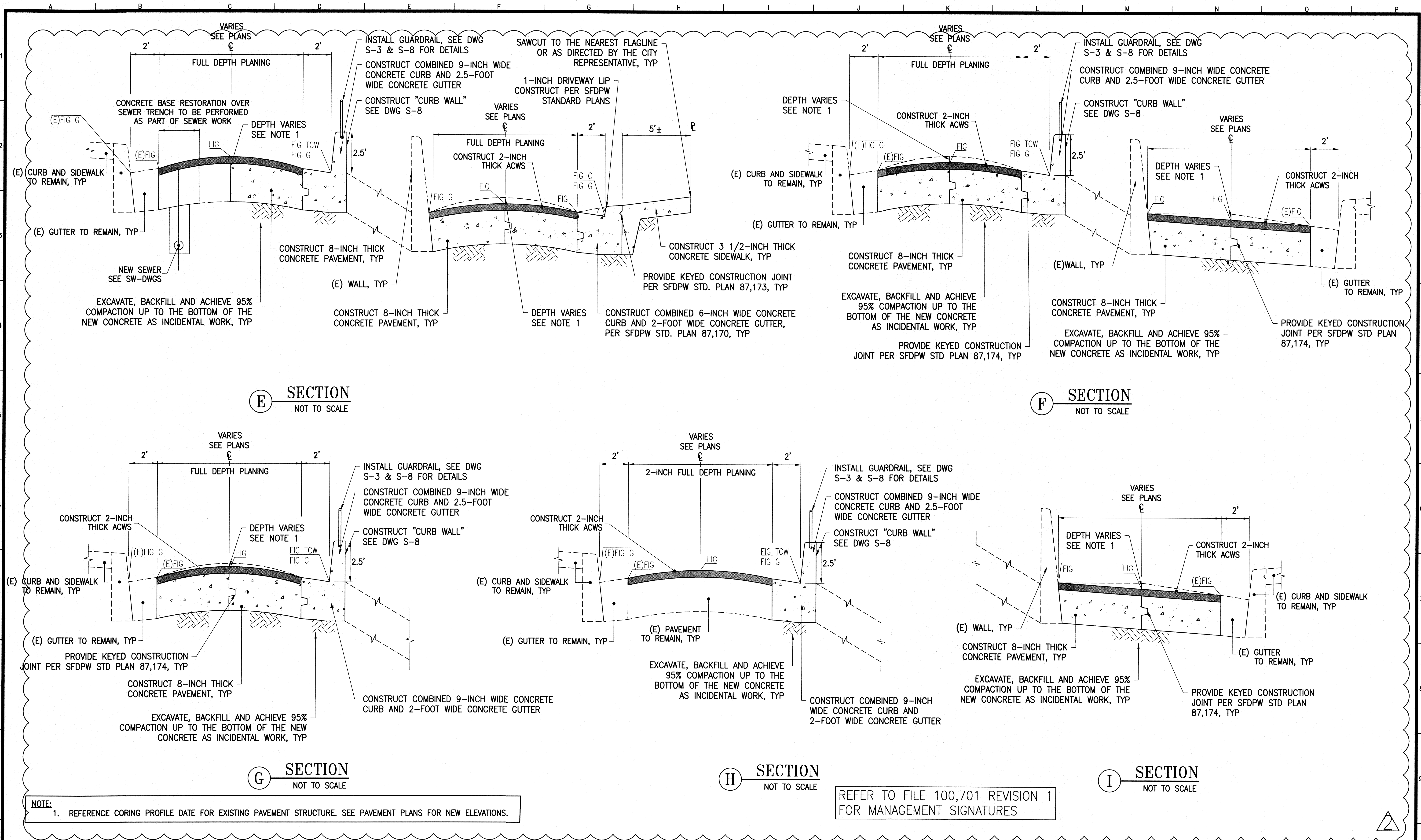


DESIGNED: I.LIANG	DATE: 1/15	APPROVED:
DRAWN: I.LIANG	DATE: 1/15	SECTION MANAGER:
CHECKED: D.CALLEROS	DATE: 4/15	DEPUTY DIVISION MANAGER:
		DIVISION MANAGER:

SCALE: NTS
SHEET OF SHEETS: 18 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS
ROADWAY TYPICAL CROSS SECTIONS

CONTRACT NO. 2438J
DRAWING NO. R-5
FILE NO. 100,700
REV. NO. 2



E SECTION
NOT TO SCALE

F SECTION
NOT TO SCALE

G SECTION
NOT TO SCALE

H SECTION
NOT TO SCALE

I SECTION
NOT TO SCALE

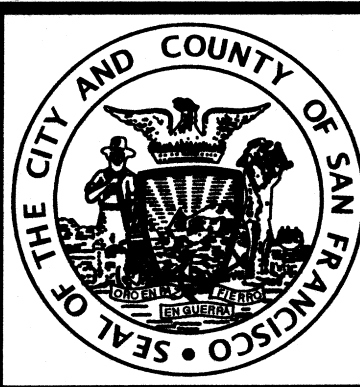
NOTE:
1. REFERENCE CORING PROFILE DATE FOR EXISTING PAVEMENT STRUCTURE. SEE PAVEMENT PLANS FOR NEW ELEVATIONS.

REFER TO FILE 100,701 REVISION 1 FOR MANAGEMENT SIGNATURES

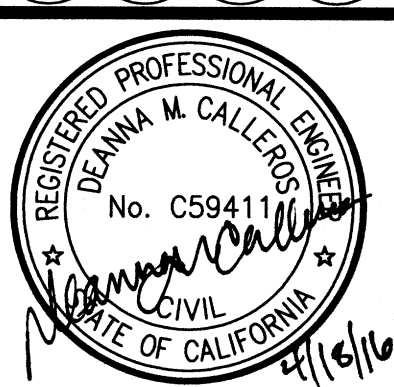
NO.	DATE	DESCRIPTION	BY	APP.
2	3/31/16	CORRECTION TO CROSS SECTIONS	IL	DC
1	1/4/16	ALIGNMENT CHANGE	IL	DC

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 03/31/16 16:00, BY: iliang

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



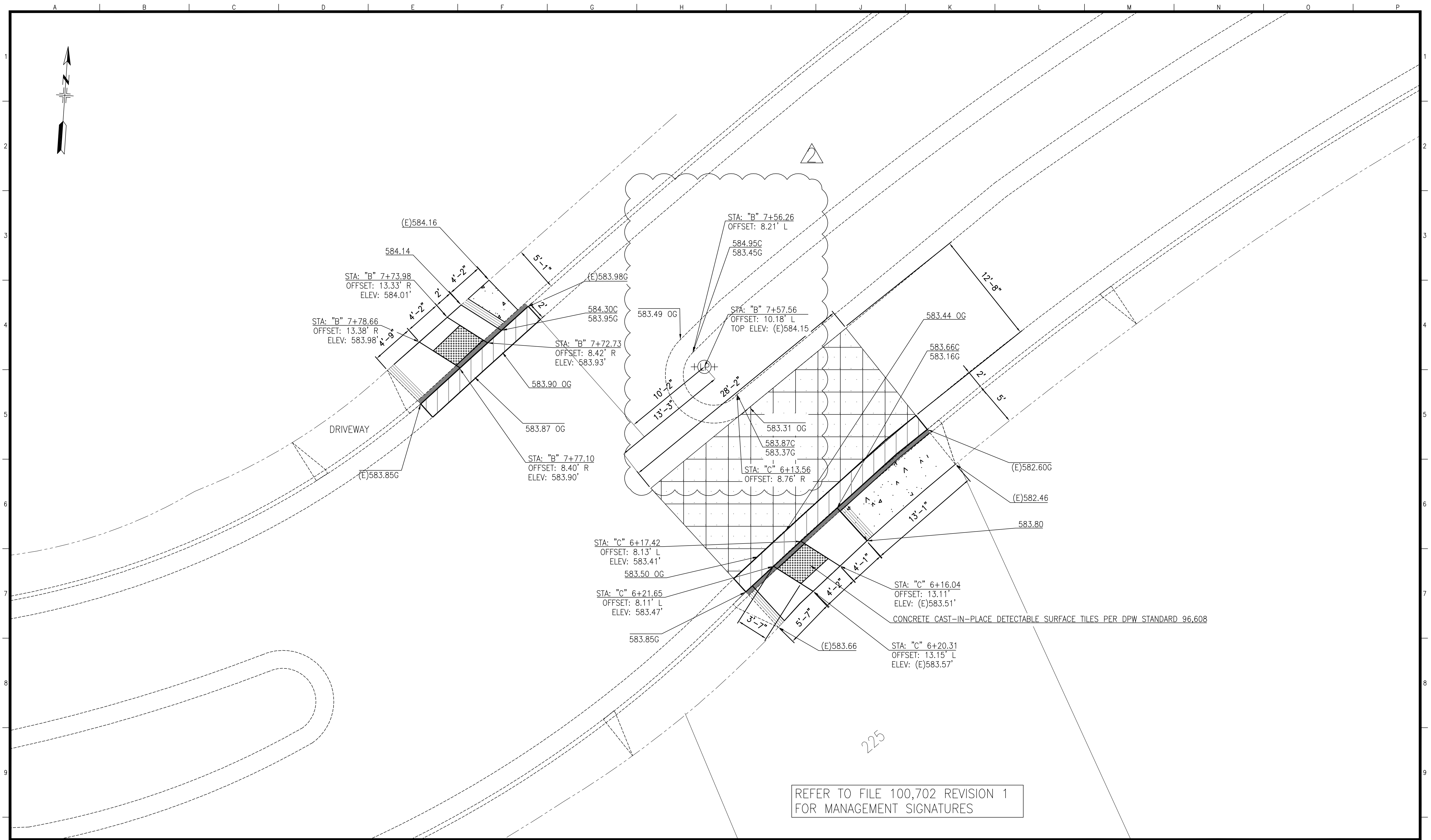
DESIGNED: DATE: 1/15
I.LIANG
DRAWN: DATE: 1/15
I.LIANG
CHECKED: DATE: 4/15
D.CALLEROS

APPROVED
SECTION MANAGER DATE:
DEPUTY DIVISION MANAGER DATE:
DIVISION MANAGER DATE:

SCALE:
NTS
SHEET OF SHEETS
19 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS
ROADWAY
TYPICAL CROSS SECTIONS II

CONTRACT NO. 2438J
DRAWING NO. R-6
FILE NO. 100,701
REV. NO. 2

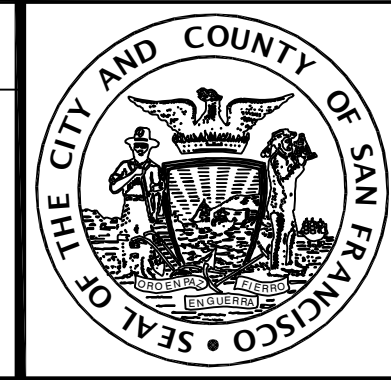


REFER TO FILE 100,702 REVISION 1 FOR MANAGEMENT SIGNATURES

NO.	DATE	DESCRIPTION	BY	APP.
2	3/31/16	CURB NOSING ALIGNMENT	IL	DC
1	1/4/16	ADD'L INFORMATION, ALIGNMENT CHANGE	IL	DC

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 03/31/16 17:17, BY: iiliang

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: I.LIANG DATE: 1/15
DRAWN: I.LIANG DATE: 1/15
CHECKED: E.KJELSBERG DATE: 4/15

APPROVED
SECTION MANAGER DATE:
DEPUTY DIVISION MANAGER DATE:
DIVISION MANAGER DATE:

SCALE: 1"=5'
SHEET OF SHEETS: 20 OF 39

SAN MARCOS AVENUE & SANTA RITA AVENUE
ROADWAY IMPROVEMENTS
SAN MARCOS AVENUE CROSSOVER
CURB RAMP DETAILS

CONTRACT NO. 2438J
DRAWING NO. CR-1
FILE NO. 100,702
REV. NO. 2

LEGEND

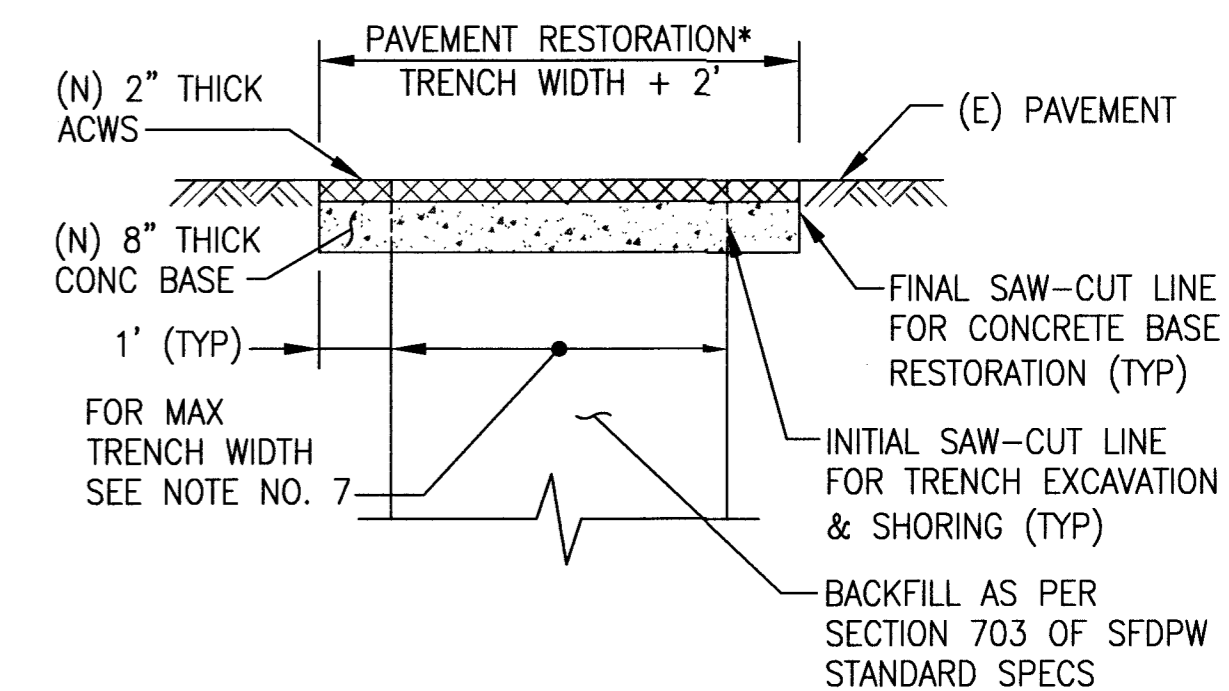
SIZE & TYPE	EXISTING SEWER OR CULVERT
	EXISTING MH
	EXISTING CB, SWI
	EXISTING CB WITH CURB INLET
	EXISTING SIDE SEWER AND FRESH AIR INLET
SIZE & TYPE	NEW SEWER OR CULVERT
	NEW MH PER SFPDW STD PLAN 87,181
	REPLACE (E) MH PER SFPDW STD PLAN 87,181
	MORTAR EXISTING MH
	ABANDON EXISTING MH
	REMOVE EXISTING MH
	EXISTING MH
	NEW MH
	MORTAR EXISTING MH
	REPLACE EXISTING MH
	ABANDON EXISTING MH
	REMOVE EXISTING MH
	EXISTING SURVEY MONUMENT
	NEW CB PER SFPDW STD PLAN 87,188
	REPLACE (E) CB PER SFPDW STD PLAN 87,188
	ABANDON EXISTING CB
	NEW SS PER SFPDW STD PLAN 87,196
	NEW 6" OR 8" SS CONNECTION TO MAIN SEWER
	PLUG EXISTING FACILITIES
	PLUG AND FILL EXISTING FACILITIES
	APPROXIMATE PAVEMENT SURFACE
	DIRECTION OF FLOW

ABBREVIATIONS

±	PLUS OR MINUS
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ACWS	ASPHALT CONCRETE WEARING SURFACE
APPROX	APPROXIMATE
AVE	AVENUE
AWSS	AUXILIARY WATER SUPPLY SYSTEM
B&S	BELL AND SPIGOT
BRK	BRICK
CB	CATCHBASIN
CF	CUBIC FEET
CH	CHANGE
CIPL	CURED IN-PLACE LINER
CONC	CONCRETE
C-C	CENTER TO CENTER
CY	CUBIC YARD
DET	DETAIL
DIA OR Ø	DIAMETER
DWG	DRAWING
E	EAST
(E)	EXISTING
EF	EACH FACE
EMBED	EMBEDMENT
EL	ELEVATION
ENGR	ENGINEER
EQ	EQUAL
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
INV	INVERT
ISP	IRON STONE PIPE
LF	LINEAR FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
N	NORTH
(N)	NEW
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PL	PROPERTY LINE
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
S	SOUTH
SF	SQUARE FEET
S.F.	SAN FRANCISCO
SFPDW	SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS
SL	SLOPE
SPECS	SPECIFICATIONS
SS	SIDE SEWER
ST	STREET
STD	STANDARD
SWI	STORM WATER INLET
THRU	THROUGH
(TYP)	TYPICAL
VERT	VERTICAL
VCP	VITRIFIED CLAY PIPE
W	WEST
W/	WITH
W/O	WITHOUT

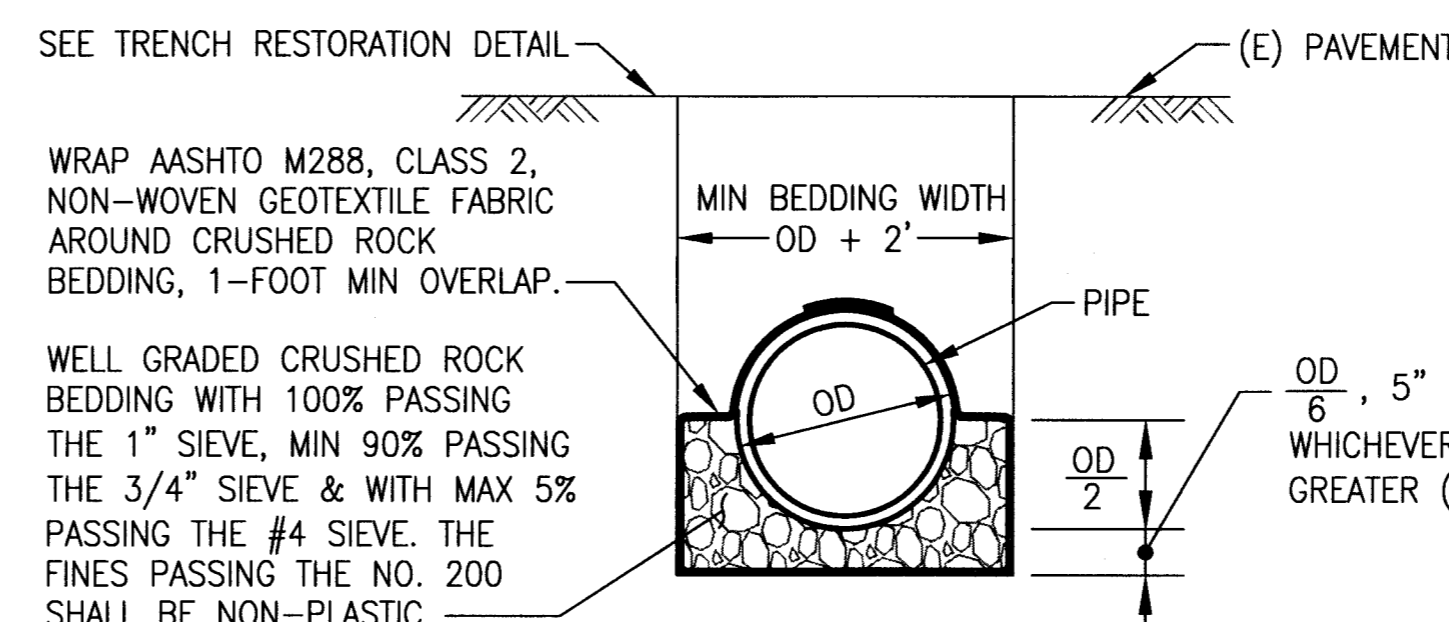
GENERAL NOTES

- NUMBER AND LOCATIONS OF SIDE SEWER CONNECTIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY SIDE SEWER CONNECTIONS IN THE FIELD.
- ALL GROUND SURFACE ELEVATIONS AND INVERT ELEVATIONS TO BE CONFORMED ARE APPROXIMATE.
- ELEVATIONS ARE IN REFERENCE TO S.F. CITY DATUM.
- IN ACCORDANCE WITH THE PROVISIONS OF THE CALIFORNIA PUBLIC CONTRACT CODE SECTION 3300, A BID SUBMITTED TO A PUBLIC AGENCY BY A CONTRACTOR WHO IS NOT LICENSED IN ACCORDANCE WITH CHAPTER 9 OF THE BUSINESS AND PROFESSIONS CODE SHALL BE CONSIDERED NON-RESPONSIVE AND SHALL BE REJECTED BY THE PUBLIC AGENCY.
- AT THE TIME THIS CONTRACT IS BID, THE CONTRACTOR SHALL POSSESS A STATE OF CALIFORNIA CLASS "A" GENERAL ENGINEERING CONTRACTOR'S LICENSE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN EXCAVATION PERMIT FROM SFPDW-STREET CONSTRUCTION COORDINATION CENTER LOCATED AT 1155 MARKET STREET, 3RD FLOOR.
- MAXIMUM TRENCH WIDTH SHALL BE THE LARGER OUTSIDE DIMENSION OF THE NEW OR EXISTING SEWER/STRUCTURE PLUS 1.5 FEET ON EACH SIDE.
- ALL NEW VCP MAIN SEWERS SHALL BE CONSTRUCTED ON CRUSHED ROCK BEDDING PER DETAIL SHOWN BELOW UNLESS OTHERWISE NOTED.
- PIPE LENGTH SHOWN IN PROFILE INDICATES HORIZONTAL DISTANCE EXCLUDING INSIDE DIMENSION OF EACH SEWER MANHOLE/STRUCTURE.
- AFTER SEWER WORK HAS BEEN COMPLETED, THE CONTRACTOR SHALL CLEAN ALL CATCHBASINS SHOWN ON SW-DRAWINGS AND REPLACE CAST IRON WATER TRAPS AS DIRECTED BY THE CITY REPRESENTATIVE.
- CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS AND BENCHMARKS LOCATED WITHIN THE CONTRACT LIMIT. CITY MONUMENTS LOCATED WITHIN 10 FEET OF TRENCH MUST BE REFERENCED PRIOR TO ANY DEMOLITION, AND A CORNER RECORD MUST BE FILED WITH THE COUNTY SURVEYOR'S OFFICE BY CONTACTING BUREAU OF STREET-USE AND MAPPING AT (415) 554-5829. THE MONUMENTS MUST BE REVISITED AFTER CONSTRUCTION HAS BEEN COMPLETED TO VERIFY THAT NO MOVEMENT HAS OCCURRED. IF MONUMENTS ARE NOT REFERENCED PRIOR TO CONSTRUCTION, THE CITY WILL CHARGE \$10,000 A PIECE TO THE CONTRACTOR FOR REESTABLISHING THE MONUMENT.
- PRIOR TO ABANDONING EXISTING SEWER FACILITIES, CONTRACTOR SHALL VERIFY THAT THERE ARE NO ACTIVE CONNECTIONS TO THESE FACILITIES. CONTRACTOR SHALL NOTIFY CITY REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES.
- RIM ELEVATIONS OF PROPOSED SEWER MANHOLES SHALL CONFORM TO FINISHED ROADWAY ELEVATIONS. REFER TO R DRAWINGS.
- CONTRACTOR SHALL VERIFY EXACT DIAMETER AND LENGTH OF EXISTING SEWER TO BE LINED PRIOR TO MANUFACTURING THE LINER.
- SPRAY MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 7 DAYS. FOR SURFACE PREPARATIONS AND ADDITIONAL REQUIREMENTS, REFER TO SPECIFICATION SECTION 33 33 00.
- SIDE SEWER SHALL BE CONNECTED TO THE MAIN AT OR ABOVE THE SPRING LINE UNLESS OTHERWISE DIRECTED BY THE CITY REPRESENTATIVE.



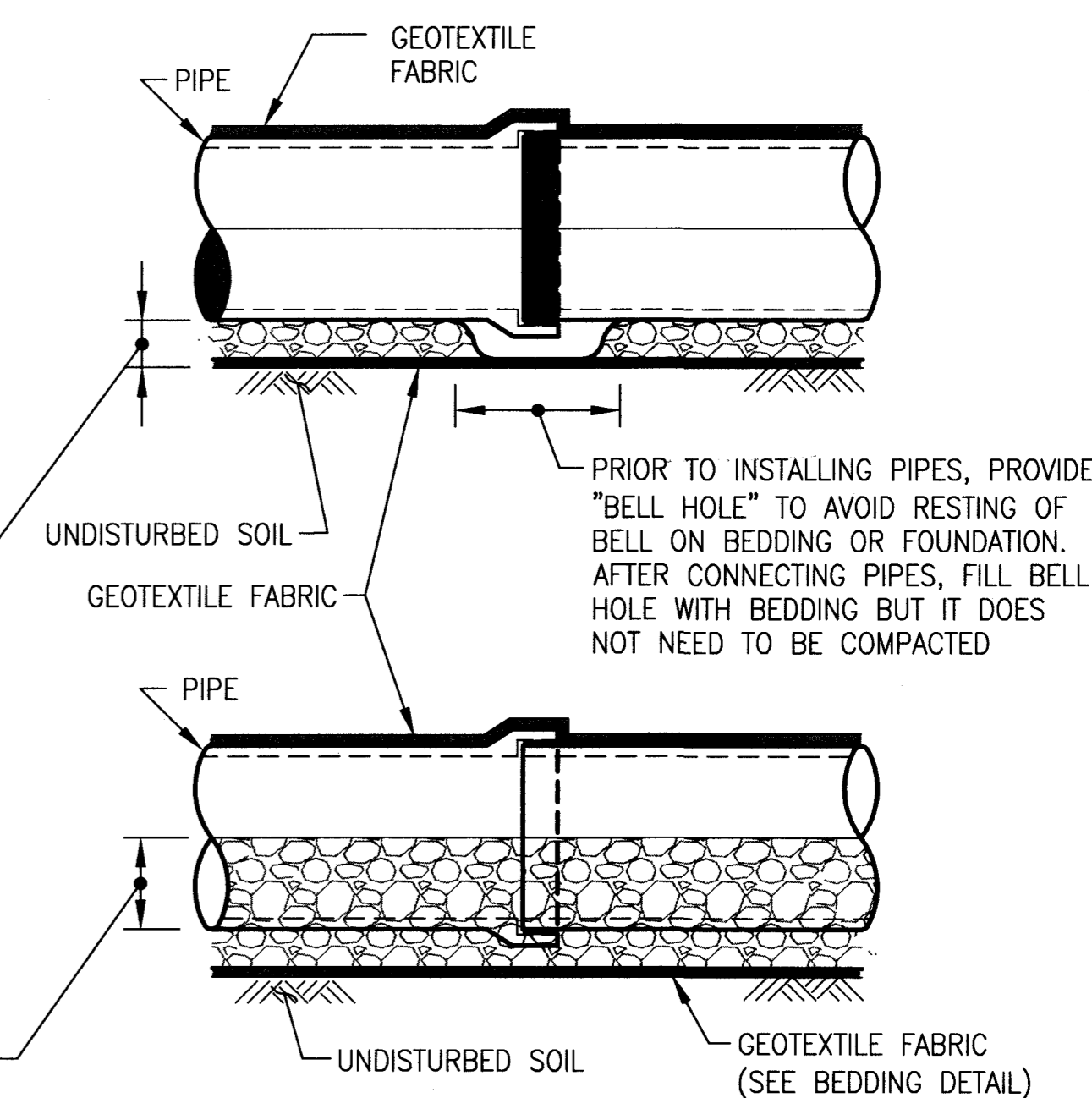
TRENCH RESTORATION DETAIL FOR ASPHALT STREET

*LIMITS OF FINAL ACWS SHALL BE PER THIS DETAIL UNLESS R-DRAWINGS DELINEATE WIDER AREAS TO BE PAVED
 PER EXCAVATION REGULATIONS, RESTORATION OF CONCRETE BASE MAY BE WIDER THAN SHOWN IN TRENCH RESTORATION DETAIL.



BEDDING DETAIL FOR RIGID PIPE

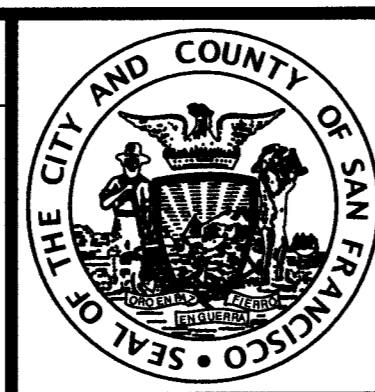
BEDDING IN THIS AREA SHALL BE PLACED IN TWO LAYERS. AFTER 1ST LAYER IS PLACED, COMPACT BEDDING IN HAUNCH AREA BY SHOVEL SLICE METHOD EXCEPT AT THE "BELL HOLE" AREA



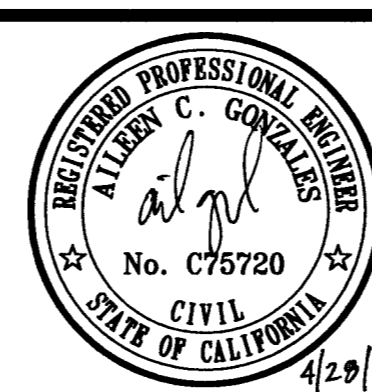
PIPE INSTALLATION

0	4/15	ISSUED FOR BIDS	AG	ID
NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO

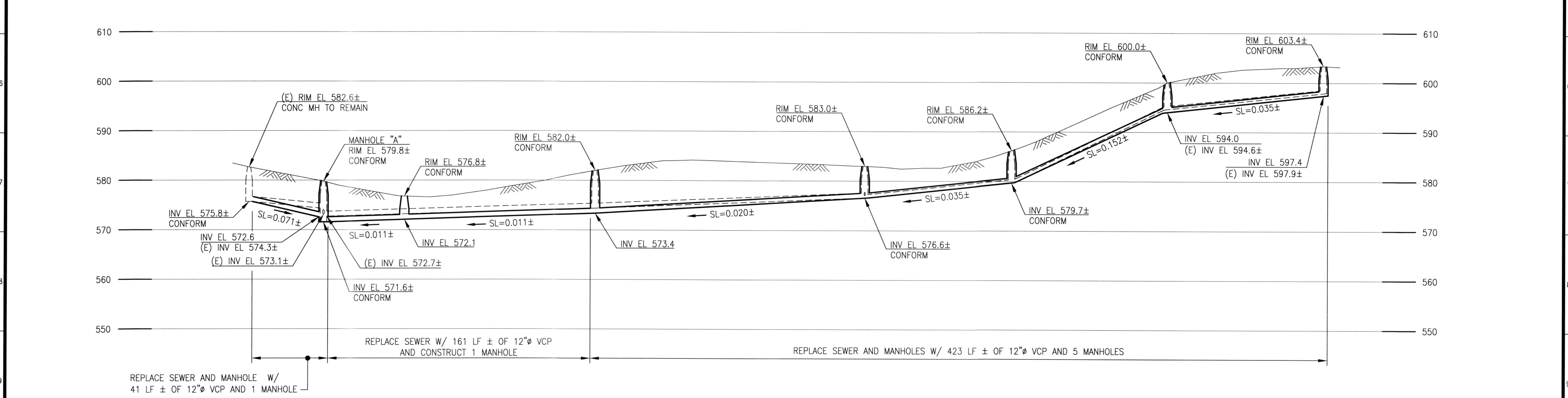
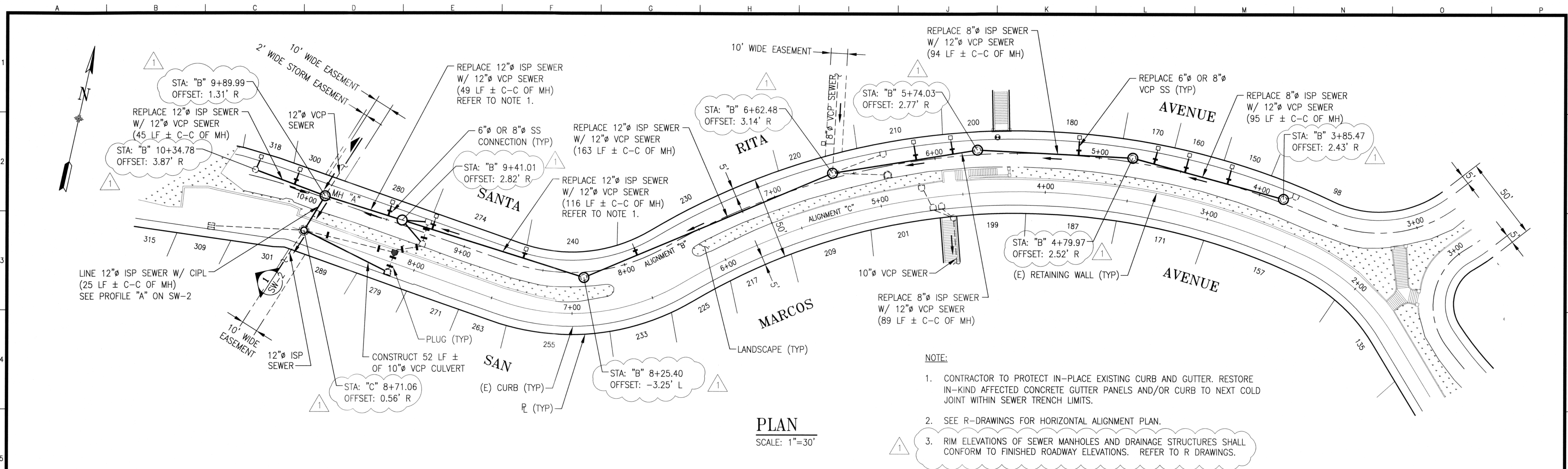


DESIGNED: DATE: A.GONZALES 4/2015	APPROVED: DATE: [Signature] 4/28/15
DRAWN: DATE: S.LIM 4/2015	SECTION MANAGER DATE: [Signature] 05/15
CHECKED: DATE: G.FONG 4/2015	DEPUTY DIVISION MANAGER DATE: [Signature] 4/20/15
	DIVISION MANAGER DATE: [Signature]

SCALE: AS NOTED
SHEET OF SHEETS: 21 OF

SAN MARCOS AVENUE AND SANTA RITA AVENUE
 ROADWAY IMPROVEMENT
 LEGEND, ABBREVIATIONS
 GENERAL NOTES AND DETAILS

CONTRACT NO. 2438J
DRAWING NO. SW-G
FILE NO. 100,703
REV. NO. 0



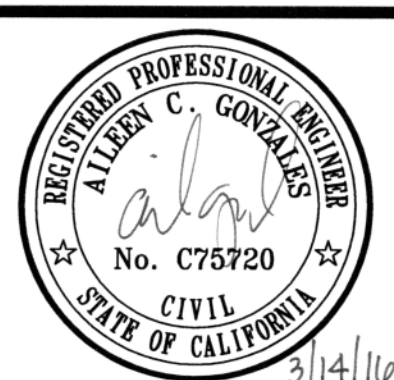
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 APPROVED BY B.S.

NO.	DATE	DESCRIPTION	BY	APP.
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0	4/15	ISSUED FOR BIDS	AG	ID
TABLE OF REVISIONS				

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 F_2_3_3622_58
 LL-19356
 Q08057
 Q20009a



INFRASTRUCTURE DIVISION
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO



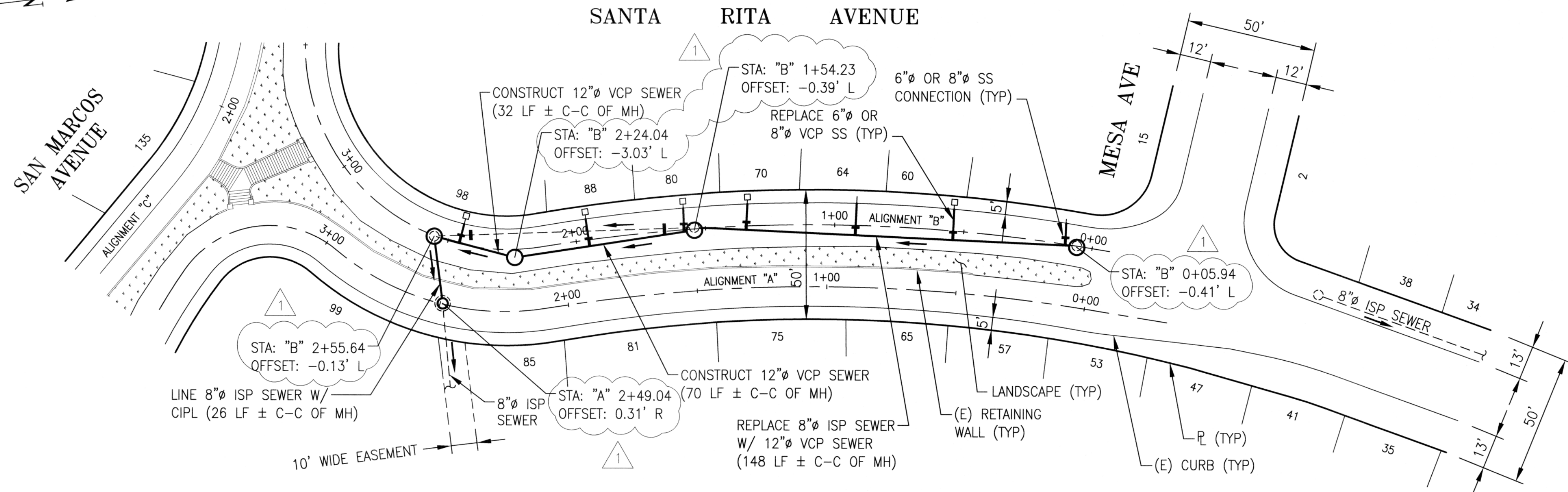
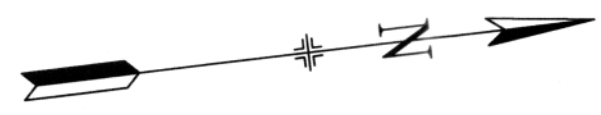
DESIGNED: A.GONZALES	DATE: 4/2015	APPROVED: _____	DATE: _____
DRAWN: S.LIM	DATE: 4/2015	SECTION MANAGER: _____	DATE: _____
CHECKED: G.FONG	DATE: 4/2015	DEPUTY DIVISION MANAGER: _____	DATE: _____
		DIVISION MANAGER: _____	DATE: _____

SCALE: AS NOTED
 SHEET OF SHEETS: 22 OF

SAN MARCOS AVENUE AND SANTA RITA AVENUE ROADWAY IMPROVEMENT

SANTA RITA AVENUE
 END TO 98 SANTA RITA AVENUE
 PLAN AND PROFILE

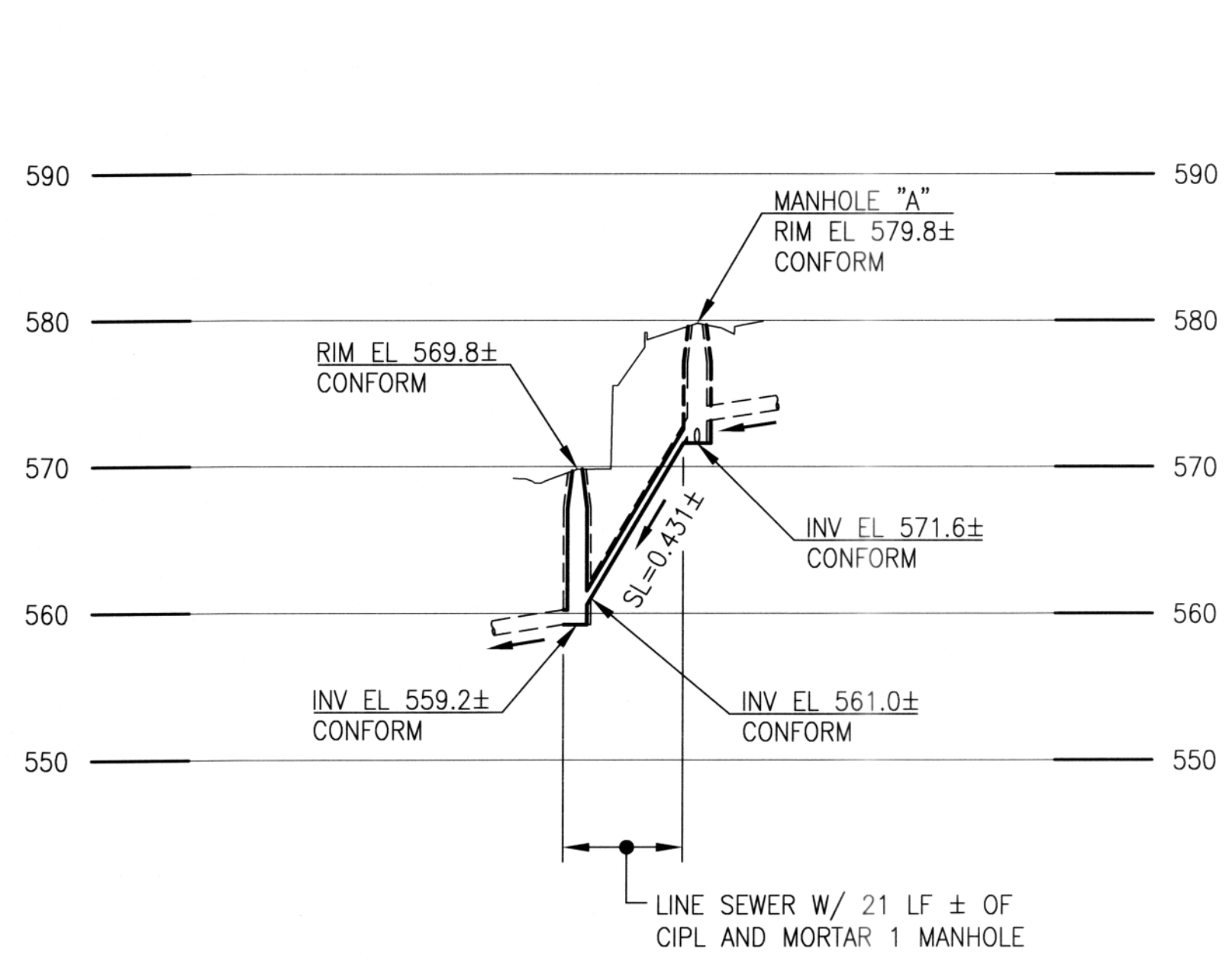
CONTRACT NO. 2438J
 DRAWING NO. SW-1
 FILE NO. 100,704
 REV. NO. 1



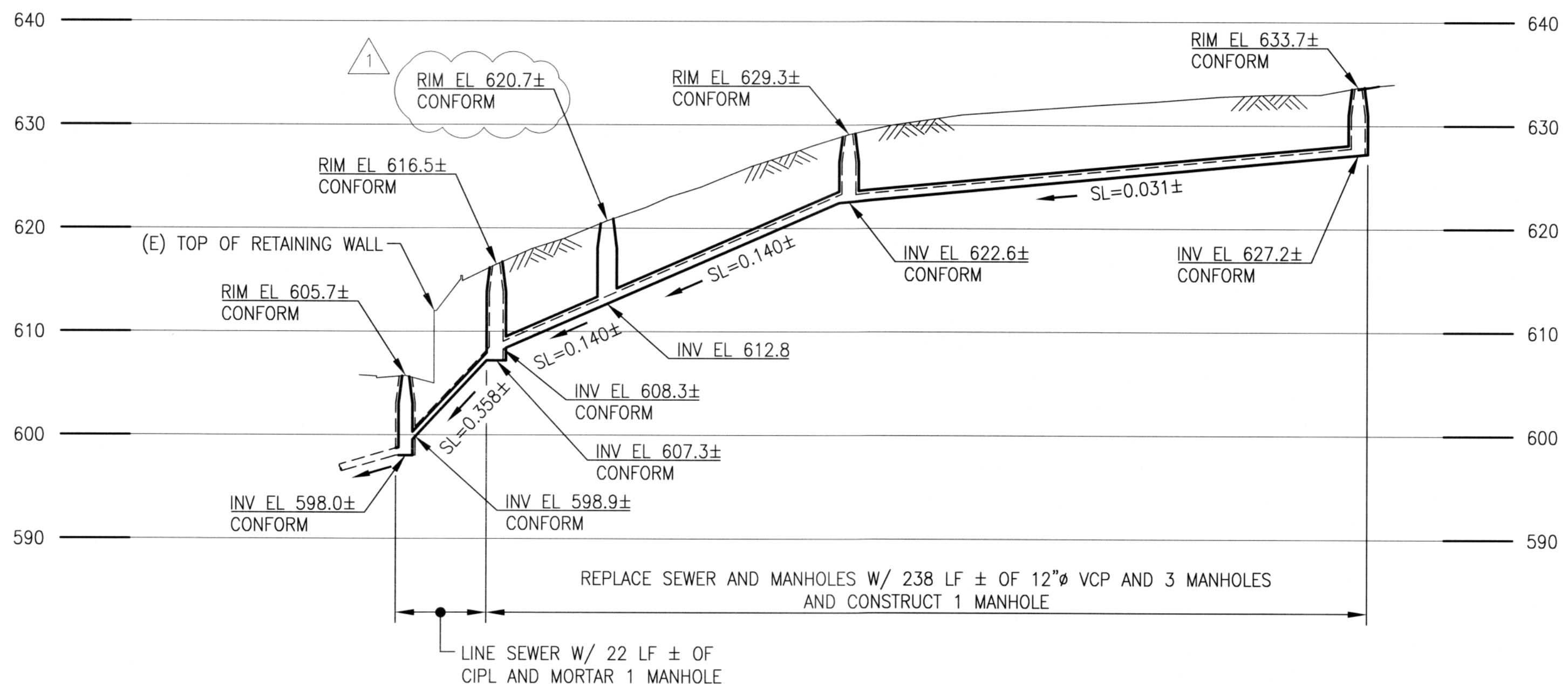
NOTE:

1. SEE R-DRAWINGS FOR HORIZONTAL ALIGNMENT PLAN.
2. RIM ELEVATIONS OF SEWER MANHOLES AND DRAINAGE STRUCTURES SHALL CONFORM TO FINISHED ROADWAY ELEVATIONS. REFER TO R DRAWINGS.

PLAN
SCALE: 1"=30'



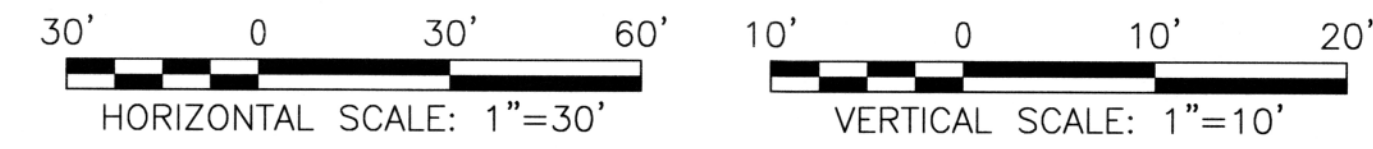
1 PROFILE "A"
SW-1 SCALE: HORIZ 1"=30'
VERT 1"=10'



PROFILE
SCALE: HORIZ 1"=30'
VERT 1"=10'

SEWER SIZED BY
Y.W.
APPROVED BY
B.S.

SEE SW-2 REV 0
FOR ORIGINAL SIGNATURES



NO.	DATE	DESCRIPTION	BY	APP.
1	3/16	STATION ON ALIGNMENT CHANGE	AG	LW
0	4/15	ISSUED FOR BIDS	AG	ID

TABLE OF REVISIONS

REFERENCE INFORMATION
& FILE NO. OF SURVEYS
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INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



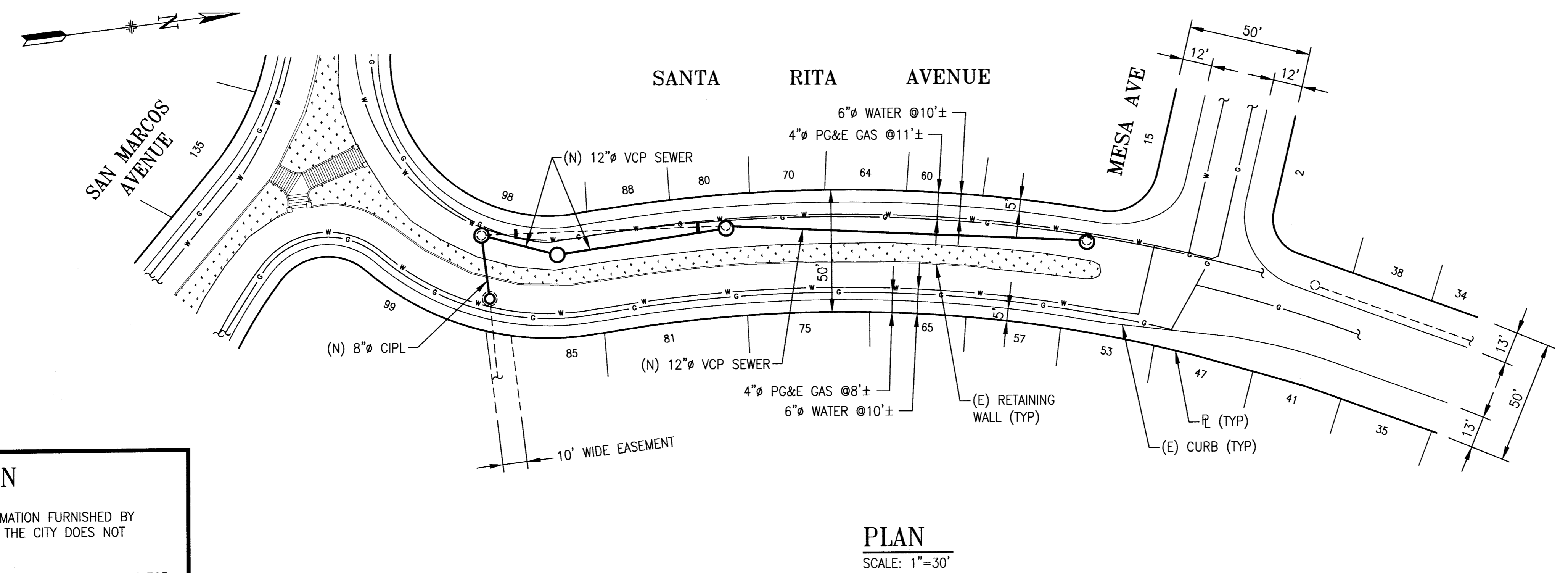
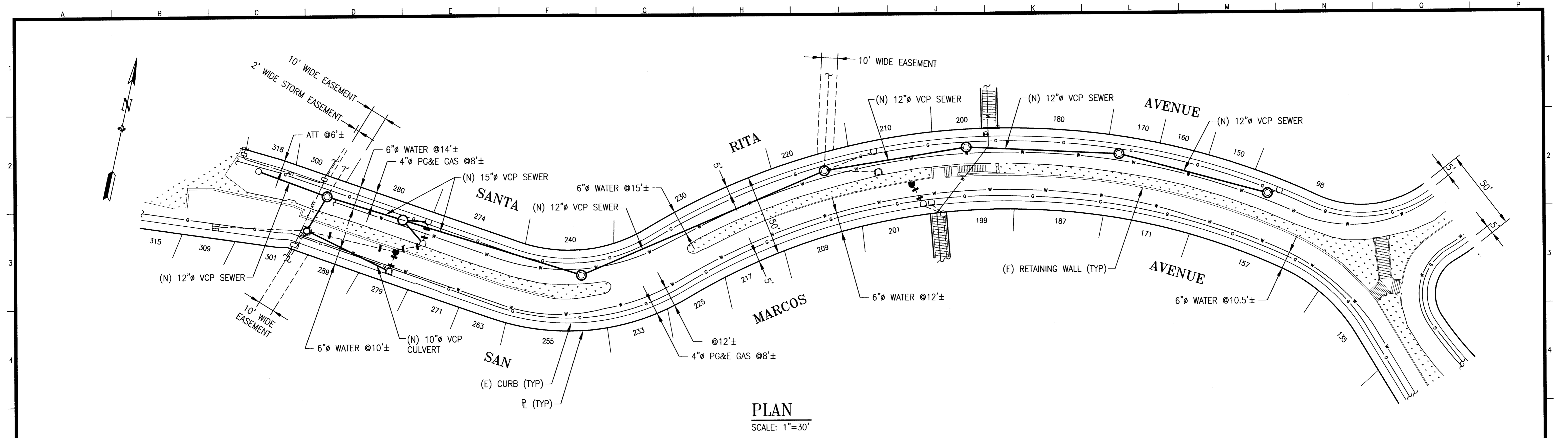
DESIGNED: DATE: 4/2015
A.GONZALES
DRAWN: DATE: 4/2015
S.LIM
CHECKED: DATE: 4/2015
G.FONG

APPROVED
SECTION MANAGER DATE:
DEPUTY DIVISION MANAGER DATE:
DIVISION MANAGER DATE:

SCALE:
AS NOTED
SHEET OF SHEETS
23 OF

SAN MARCOS AVENUE AND SANTA RITA AVENUE
ROADWAY IMPROVEMENT
98 SANTA RITA AVENUE TO MESA AVENUE
PLAN AND PROFILE

CONTRACT NO.
2438J
DRAWING NO.
SW-2
FILE NO.
100,705
REV. NO.
1



LEGEND

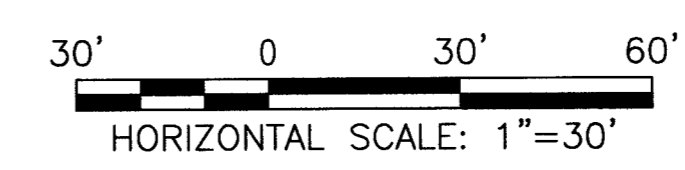
	(N) SEWER OR CULVERT
	(E) SEWER OR CULVERT
	(E) WATER MAIN
	(E) AT&T LINE
	(E) PG&E GAS

CAUTION

THIS DATA IS COMPILED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY AGENCIES, AND THE CITY DOES NOT GUARANTEE ITS ACCURACY.

IT IS NOT A CONSTRUCTION DRAWING. IT IS INCLUDED ONLY FOR THE ASSISTANCE OF THE CONTRACTOR.

FOR CONSTRUCTION DATA, SEE APPROPRIATE CONTRACT PLANS.

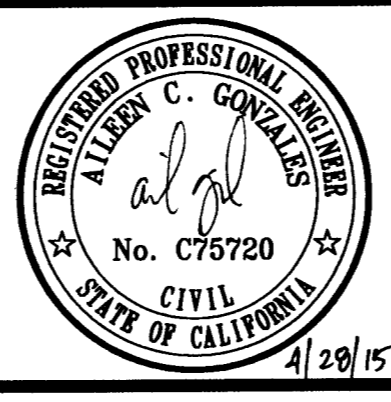


NO.	DATE	DESCRIPTION	AG	ID
0	4/15	ISSUED FOR BIDS		
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE:
DRAWN: DATE:
S.LIM 4/2015
CHECKED: DATE:
G.FONG 4/2015

APPROVED
DATE: 4/28/15
SECTION MANAGER
DATE: 05/15
DEPUTY DIVISION MANAGER
DATE:
DIVISION MANAGER
DATE:

SCALE:
AS NOTED
SHEET OF SHEETS
24 OF

**SAN MARCOS AVENUE AND SANTA RITA AVENUE
ROADWAY IMPROVEMENT**

**SANTA RITA AVENUE
UTILITY OCCUPANCY PLANS**

CONTRACT NO. 2438J
DRAWING NO. U-1
FILE NO. 100,706
REV. NO. 0

PROJECT DESCRIPTION

1. THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS COMPRISES THE CONSTRUCTION OF NEW CONCRETE CURB WALL WITH TRAFFIC RAIL AND GUTTER.

GENERAL

- THESE GENERAL NOTES APPLY THROUGHOUT ALL STRUCTURAL DRAWINGS EXCEPT WHERE SPECIFICALLY SHOWN BY NOTES ON DRAWINGS AND/OR DETAILS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO THE START OF CONSTRUCTION OR FABRICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION OR FABRICATION. ANY DISCREPANCIES, INCONSISTENCIES, OR UNSOUND CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR RESOLUTION PRIOR TO THE START OF ANY CONSTRUCTION OR FABRICATION SO THAT A CLARIFICATION CAN BE ISSUED.
- DIMENSIONS ARE TO CENTERLINE OF STEEL FRAMING, FACE OF CONCRETE SURFACES, FACE OF STUDS, FACE OF CONCRETE MASONRY UNITS (CMU), TOP OF SHEATHING, OR TOP OF STRUCTURAL SLAB, UNLESS OTHERWISE NOTED.
- DIMENSIONS IN THE STRUCTURAL DRAWINGS ARE AS NOTED. DO NOT USE DIMENSIONS SCALED FROM THE STRUCTURAL DRAWINGS.
- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE CITY AND COUNTY OF SAN FRANCISCO.
- ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS OTHERWISE NOTED. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS, BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE DRAWINGS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO DETAILS ARE NOTED, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
- REFER TO OTHER DISCIPLINES' DRAWINGS AND COORDINATE INFORMATION RELATED TO THOSE OTHER DISCIPLINES' SYSTEMS FOR ITEMS SUCH AS:
 - FINISH AND LOCATION OF PAVEMENT WORK.
 - SIZE AND LOCATION OF SEWER WORK.
- FOR OPENINGS LARGER THAN 6" THAT ARE REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL SUBMIT DRAWINGS INDICATING OPENING LOCATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS AND/OR METHODS OF CONSTRUCTION. ALTHOUGH THE NEED FOR SHORING MAY SOMETIMES BE INDICATED IN THE STRUCTURAL DRAWINGS, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN, PROVIDE, AND MAINTAIN TEMPORARY BRACING, SHORING, GUYING, OR OTHER TEMPORARY SUPPORT AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION OF ADJACENT STRUCTURES DURING CONSTRUCTION. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT.
- WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION UNTIL WALL DESIGN STRENGTH HAS BEEN ATTAINED AND ALL PERMANENT SUPPORTS ARE IN PLACE.
- THE USE OF NEW CONSTRUCTION FOR TEMPORARY SUPPORT OR STORAGE OF CONSTRUCTION EQUIPMENT OR MATERIALS IS RESTRICTED TO THE DESIGN CAPACITY OF THE NEW CONSTRUCTION AT THE TIME IT IS TO BE USED. EQUIPMENT OR MATERIALS SHALL BE PLACED SO AS NOT TO EXCEED THE CAPACITY OF INDIVIDUAL ELEMENTS. PROVIDE ADEQUATE, ENGINEERED SHORING AND/OR BRACING WHERE DESIGN CAPACITY IS NOT SUFFICIENT.
- CONSTRUCTION LOADS SHALL NOT BE PLACED ON NEW CONCRETE CONSTRUCTION, INCLUDING CONCRETE FILL ON METAL DECK, FOR AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT.
- SPECIFICATIONS AND DETAILING OF ALL WATERPROOFING AND DRAINAGE ITEMS, ALTHOUGH SOMETIMES INDICATED ON THE STRUCTURAL DRAWINGS FOR GENERAL INFORMATION PURPOSES ONLY, ARE SOLELY THE DESIGN RESPONSIBILITY OF OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING PIPES, DUCTS, AND UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT.
- ALL STRUCTURAL MEMBERS AND ELEMENTS SHOWN ON THE STRUCTURAL DRAWINGS ARE NEW UNLESS NOTED (E) FOR EXISTING CONDITIONS.

BASIS OF DESIGN

- ALL NEW CONSTRUCTION SHALL CONFORM TO THE 2013 SAN FRANCISCO BUILDING CODE (SFBC) WHICH COMPRISES THE 2013 CALIFORNIA BUILDING CODE (CBC) AND 2013 SAN FRANCISCO AMENDMENTS.
- THE PUBLICATIONS LISTED BELOW ARE THE GOVERNING CODES AND STANDARDS REFERRED BY THE CBC AND ARE REFERENCED HEREIN BY THEIR BASIC DESIGNATION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE SFBC SHALL GOVERN.

ACI 301-10	AMERICAN CONCRETE INSTITUTE, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", 2010 EDITION
ACI 318-11	AMERICAN CONCRETE INSTITUTE, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", 2011 EDITION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS D1.1	AMERICAN WELDING SOCIETY, "STRUCTURAL WELDING CODE - STEEL", 2000 EDITION
AWS D1.3	AMERICAN WELDING SOCIETY, "STRUCTURAL WELDING CODE - SHEET STEEL", 2000 EDITION
AWS D1.4	AMERICAN WELDING SOCIETY, "STRUCTURAL WELDING CODE - REINFORCING STEEL", 2000 EDITION

STRUCTURAL DESIGN CRITERIA

- DESIGN LIVE LOADS:

PUBLIC AREAS:	100 PSF
STAIRS AND CORRIDORS:	100 PSF
TRAFFIC RAILS:	6,000 LB (HORIZONTAL)

CONCRETE

- MIXING, BATCHING, TRANSPORTING, PLACING, AND CURING OF ALL CONCRETE AND SPECIFICATION OF CONCRETE MATERIALS, SHALL CONFORM TO ACI 301 "SPECIFICATION FOR STRUCTURAL CONCRETE", EXCEPT AS NOTED BELOW.
- CONCRETE SHALL BE READY-MIXED CONFORMING TO ASTM C94. CEMENT SHALL BE PORTLAND CEMENT TYPE II, CONFORMING TO ASTM C150. ALL CONCRETE USED IN SUSPENDED SLABS AND SLABS-ON-GRADE SHALL BE DESIGNED WITH A SHRINKAGE LIMITATION OF 0.04% AFTER 28 DAYS OF DRYING.
- CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER AND APPROVED PRIOR TO USE. SELECTION OF CONCRETE MIX PROPORTIONS SHALL BE IN ACCORDANCE WITH ACI 301. MIX PROPORTIONS SHALL MEET OR EXCEED THE REQUIREMENTS LISTED BELOW FOR THE LOCATIONS NOTED. THE MORE STRINGENT OF THE REQUIREMENTS LISTED SHALL GOVERN.
- SUPPLEMENTARY CEMENTITIOUS MATERIALS (SCM), SUCH AS SLAG, FLY ASH, SILICA FUME, AND CALCINED CLAY, AS A PERCENTAGE OF TOTAL WEIGHT OF CEMENTITIOUS MATERIAL SHALL BE A MINIMUM OF 25 PERCENT AND A MAXIMUM OF 50 PERCENT. COAL FLY ASH, AS A PERCENTAGE OF TOTAL WEIGHT OF CEMENTITIOUS MATERIAL, SHALL BE A MAXIMUM OF 20 PERCENT. COAL FLY ASH SHALL BE CLASS F, MEETING ASTM C618 REQUIREMENTS. FINELY GROUND GRANULATED BLAST-FURNACE SLAG SHALL CONFORM TO ASTM C989. WATER/CEMENT RATIO SHALL BE BASED ON TOTAL CEMENTITIOUS MATERIAL, INCLUDING SUPPLEMENTARY CEMENTITIOUS MATERIALS.
- PROPORTIONS OF AGGREGATE TO CEMENTITIOUS PASTE SHALL BE SUCH AS TO PRODUCE A DENSE, WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. SUPERPLASTICIZERS MAY BE USED TO IMPROVE WORKABILITY IN THIN OR CONGESTED SECTIONS.
- CONCRETE SHALL HAVE THE FOLLOWING CHARACTERISTICS:

LOCATION	STRENGTH, fc' MIN	TEST AGE	MAXIMUM	MAXIMUM
			AGGREGATE SIZE	WATER/CEMENT RATIO
FOUNDATIONS	3,000 PSI	28 DAYS	¾"	0.45
WALLS	3,000 PSI	28 DAYS	¾"	0.45
STAIRS	3,000 PSI	28 DAYS	¾"	0.45
GUTTER	3,000 PSI	28 DAYS	¾"	0.45

- PIPES OTHER THAN ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. OUTSIDE DIAMETER OF CONDUIT EMBEDDED IN CONCRETE SHALL NOT EXCEED 1/6 TIMES THE MEMBER THICKNESS, OR 1 ¼", WHICHEVER IS LESS, WITHOUT APPROVAL OF THE ENGINEER. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS OR REBAR SHALL BE 3 TIMES CONDUIT-DIAMETER (LARGER CONDUIT) OR 1 INCH, WHICHEVER IS GREATER. CONDUIT EMBEDDED IN SLABS SHALL BE EMBEDDED IN ONE LAYER AT MID-DEPTH OF SLABS. CONDUITS SHALL BE FIRMLY CHAIRED AND TIED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT. CONDUIT CAN BE TIED TO REBAR WHEN ORIENTED PERPENDICULAR TO THEM, PROVIDE THE LOCATION OF THE REBAR IS NOT AFFECTED BY THE CONDUIT. PLACE #3 AT 12 INCHES ADDED REINFORCEMENT PERPENDICULAR TO CONDUITS WHERE REQUIRED TO SUPPORT CONDUIT. CONDUITS WITHOUT CLEARANCE NOTED ABOVE SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION. ADDED TRIM REINFORCEMENT WILL BE REQUIRED WHERE CLEARANCES CANNOT BE MET, SUCH AS ELECTRICAL PANEL ROOMS.
- SLEEVES, WHEN EMBEDDED IN CONCRETE, SHALL BE SPACED WITH ONE SLEEVE-DIAMETER (LARGER SLEEVE) CLEAR BETWEEN ADJACENT SLEEVES OR REBAR, OR 1 INCH, WHICHEVER IS GREATER. SLEEVES WITHOUT CLEARANCE NOTED ABOVE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION. ADDED TRIM REINFORCEMENT WILL BE REQUIRED WHERE CLEARANCES CANNOT BE MET, SUCH AS ELECTRICAL PANEL ROOMS.
- ALUMINUM PIPES, CONDUITS, AND SLEEVES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
- THE CONTRACTOR SHALL INFORM THE ENGINEER AT LEAST 3 DAYS PRIOR TO POURING ANY STRUCTURAL CONCRETE SO THAT THE ENGINEER MAY HAVE THE OPPORTUNITY OF REVIEWING THE WORK PRIOR TO CONCRETE PLACEMENT.
- ALL CONCRETE EXCEPT SLABS-ON-GRADE 6" THICK OR LESS SHALL BE MECHANICALLY VIBRATED AS TO COMPLETELY FILL THE FORM WITHOUT CAUSING UNDUE SEGREGATION.
- THE CONTRACTOR SHALL REMOVE AND REPLACE ANY CONCRETE WHICH FAILS TO ATTAIN SPECIFIED STRENGTH IN 28 DAYS IF SO DIRECTED BY THE ENGINEER. ANY DEFECTS IN THE HARDENED CONCRETE SHALL BE SATISFACTORILY REPAIRED OR THE HARDENED CONCRETE SHALL BE REPLACED.
- PROJECTING CORNERS SHALL BE FORMED WITH A ¾" RADIUS UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS.
- ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318 AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, OR OTHER FOREIGN MATTER PRIOR TO PLACING THE ADJACENT CONCRETE. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO THE ARCHITECT FOR REVIEW PRIOR TO START OF CONSTRUCTION.
- WHERE NEW CONCRETE IS TO BE CAST AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE ROUGHENED TO A MINIMUM OF ¼" AMPLITUDE BY SANDBLASTING OR BUSH HAMMERING. THE EXISTING SURFACE SHALL BE CLEANED AND LANTANCE REMOVED. APPLY "SIKADUR 32, HI-MOD" EPOXY BONDING ADHESIVE, AS MANUFACTURED BY SIKA CORPORATION, LYNDHURST, NEW JERSEY, OR APPROVED EQUAL, TO EXISTING CONCRETE SURFACE PRIOR TO PLACEMENT OF NEW CONCRETE.

SHEET INDEX

SHEET NO.	TITLE	ISSUED FOR CONSTRUCTION	REVISION
S-1	GENERAL NOTES	X	
S-2	GENERAL NOTES	X	
S-3	SITE PLAN	X	
S-4	STAIR - DEMOLITION PLAN	X	
S-5	STAIR - PLAN	X	
S-6	STAIR - ELEVATION	X	
S-7	STAIR - SECTION AND DETAIL	X	
S-8	STAIR AND WALL - SECTION AND DETAIL	X	
S-9	DISABLED ACCESS LETTER	X	
REFERENCE:	TOPOGRAPHIC SURVEY OF SAN MARCOS AVENUE AND SANTA RITA AVENUE	X	


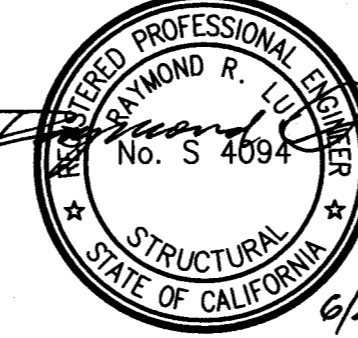
REINFORCING STEEL

- REINFORCING STEEL DETAILING, FABRICATION, AND PLACEMENT SHALL CONFORM TO THE ACI 318, CHAPTER 7.
- REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

DEFORMED BARS	ASTM A615 OR ASTM A706, GRADE 60
WELDED REINFORCEMENT, WHEN SPECIFIED BY THE ENGINEER	ASTM A706, GRADE 60
WELDED WIRE FABRIC (WWF) (SMOOTH WIRE)	ASTM A185
WELDED WIRE REINFORCEMENT (DEFORMED WIRE)	ASTM A496, ASTM A497
SPIRAL REINFORCEMENT	ASTM A615
- ALL STEEL REINFORCING BAR BENDS SHALL BE MADE COLD.
- REINFORCEMENT AND EMBEDMENTS SHALL BE ACCURATELY POSITIONED AND SECURED AGAINST DISPLACEMENT BEFORE AND DURING CONCRETE PLACEMENT. PROVIDE SUFFICIENT SUPPORTS TO PREVENT DAMAGE OR DISPLACEMENT DUE TO CONSTRUCTION TRAFFIC ON REINFORCEMENT.
- PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPLICE ONLY AS SHOWN OR APPROVED.
- WHERE NOTED ON PLANS, PROVIDE THREADED COUPLERS CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCING STEEL. THREADED COUPLERS SHALL BE "LENTON COUPLERS", AS MANUFACTURED BY ERICO COMPANY, SOLON, OHIO, OR APPROVED EQUAL WITH CURRENT ICC-ES EVALUATION REPORT.
- WELDING (INCLUDING TACK WELD) OR REINFORCING BARS IS PROHIBITED EXCEPT WHERE DETAILED OR APPROVED IN WRITING BY ENGINEER.
- REINFORCEMENT CROSSING CONSTRUCTION JOINTS SHALL BE CONTINUOUS OR LAP SPLICED PER TENSION LAP TABLE OR APPROVED COUPLERS.
- MINIMUM CLEAR COVER DISTANCES FROM FINISHED FACE OF CONCRETE TO STEEL REINFORCEMENT SHALL BE AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BARS	2"
#5 BAR, W31 OR D31 WIRE, AND SMALLER	1 ½"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, JOISTS	
#11 BAR AND SMALLER	¾"
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE ELEVATION OF ALL BEAMS AND COLUMNS SHOWING BAR AND LAP LOCATIONS. SUBMIT MILL CERTIFICATES FOR REINFORCING STEEL PRIOR TO REBAR PLACEMENT.

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
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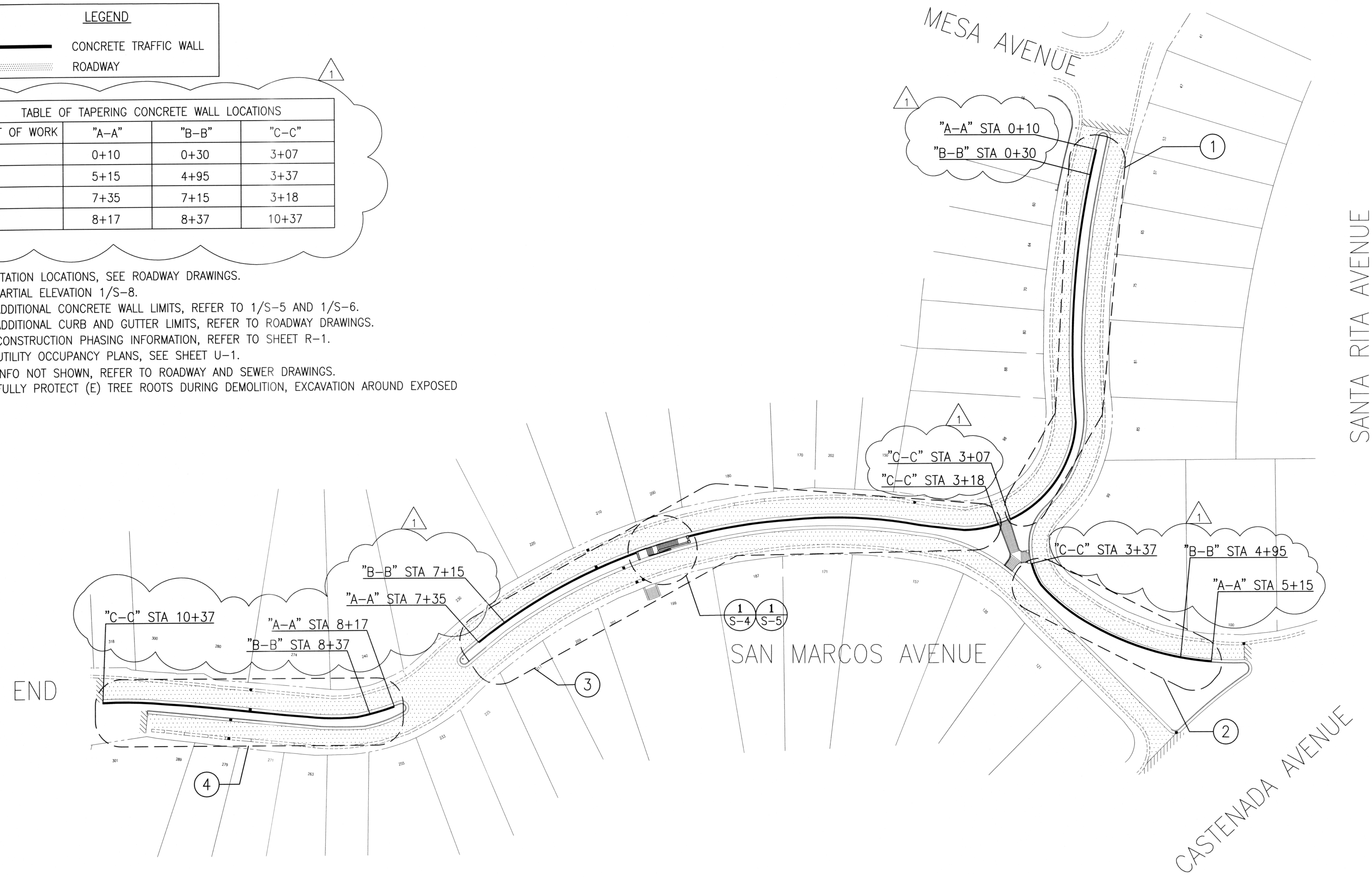
 <p>INFRASTRUCTURE DIVISION DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF SAN FRANCISCO</p>		DESIGNED: DATE: EW 5/2015 DRAWN: DATE: EW 5/2015 CHECKED: DATE: RL 5/2015	APPROVED: DATE: 6/4/15 SECTION MANAGER: DATE: 6/4/15 DEPUTY DIVISION MANAGER: DATE: 6/4/15 DIVISION MANAGER: DATE: 6/4/15	SCALE: NONE SHEET OF SHEETS: 25 OF 39	<p>SAN MARCOS AVENUE AND SANTA RITA AVENUE ROADWAY IMPROVEMENT</p> <p>GENERAL NOTES</p>	CONTRACT NO. 2438J DRAWING NO. S-1 FILE NO. 100,707 REV. NO. 0
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Xrefs: V:\2438J_TBD.dwg
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 Plot Time: Thu, 04 Jun 2015 8:46am

LEGEND	
	CONCRETE TRAFFIC WALL
	ROADWAY

TABLE OF TAPERING CONCRETE WALL LOCATIONS			
SEGMENT OF WORK	"A-A"	"B-B"	"C-C"
①	0+10	0+30	3+07
②	5+15	4+95	3+37
③	7+35	7+15	3+18
④	8+17	8+37	10+37

- NOTE:
1. FOR STATION LOCATIONS, SEE ROADWAY DRAWINGS.
 2. SEE PARTIAL ELEVATION 1/S-8.
 3. FOR ADDITIONAL CONCRETE WALL LIMITS, REFER TO 1/S-5 AND 1/S-6.
 4. FOR ADDITIONAL CURB AND GUTTER LIMITS, REFER TO ROADWAY DRAWINGS.
 7. FOR CONSTRUCTION PHASING INFORMATION, REFER TO SHEET R-1.
 6. FOR UTILITY OCCUPANCY PLANS, SEE SHEET U-1.
 7. FOR INFO NOT SHOWN, REFER TO ROADWAY AND SEWER DRAWINGS.
 8. CAREFULLY PROTECT (E) TREE ROOTS DURING DEMOLITION, EXCAVATION AROUND EXPOSED

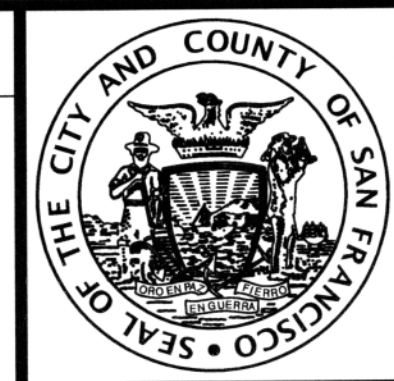


SITE PLAN ①
SCALE: N.T.S.

NO.	DATE	DESCRIPTION	BY	APP.
2/2016		ALIGNMENT CHANGE		

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REFERENCE INFORMATION
& FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE: 2/2016	APPROVED: DATE: 3/4/16
DRAWN: DATE: 2/2016	SECTION MANAGER
CHECKED: DATE: 2/2016	DEPUTY DIVISION MANAGER DATE:
RL	DIVISION MANAGER DATE:

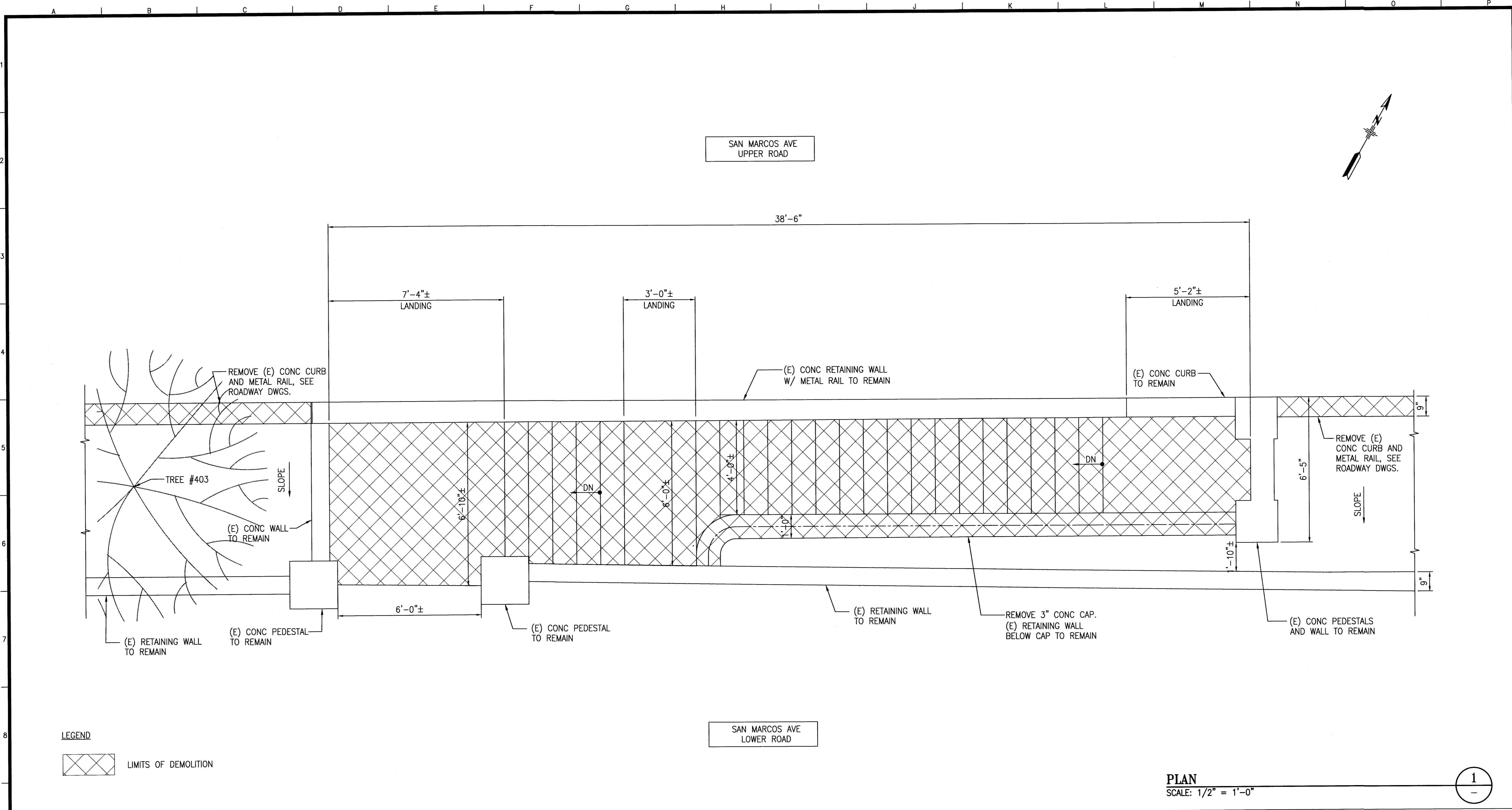
SCALE: NONE
SHEET OF SHEETS: 27 OF 39

**SAN MARCOS AVENUE AND SANTA RITA AVENUE
ROADWAY IMPROVEMENT**

SITE PLAN

CONTRACT NO. 2438J
DRAWING NO. S-3
FILE NO. 100,709
REV. NO. 1

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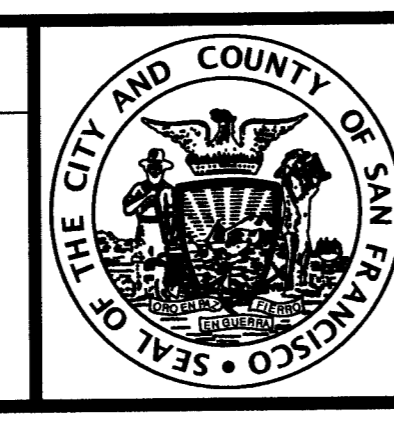


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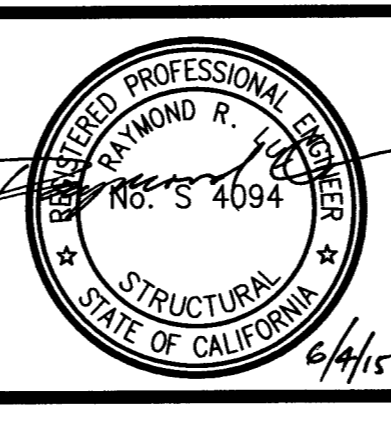
- (E) RETAINING WALL, (E) PEDESTALS, AND (E) TREES SHALL BE PROTECTED AND REMAIN UNDAMAGED DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR SHALL ACCURATELY ESTABLISH CONTROL POINT COORDINATES AND ELEVATIONS BASED ON BUREAU OF STREET USE AND MAPPING TOPOGRAPHIC SURVEY DATED 9/5/2013, PRIOR TO DEMOLITION AND CONSTRUCTION OF NEW WALL AND STAIR.
- ALL NEW ROADWAY SURFACES SHALL CONFORM WITH (N) ELEVATIONS AND FINISHED GRADES, SEE ROADWAY DWGS.
- SEE ROADWAY DWGS AND SEWER DWGS FOR INFO NOT SHOWN.

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
THIS DRAWING WAS LAST MODIFIED: 06/04/15 08:49, BY: elwong				

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE:	APPROVED
EW 5/2015	<i>[Signature]</i> 6/4/15
DRAWN: DATE:	SECTION MANAGER DATE:
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RL 5/2015	<i>[Signature]</i> 6/4/15
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SCALE: AS NOTED

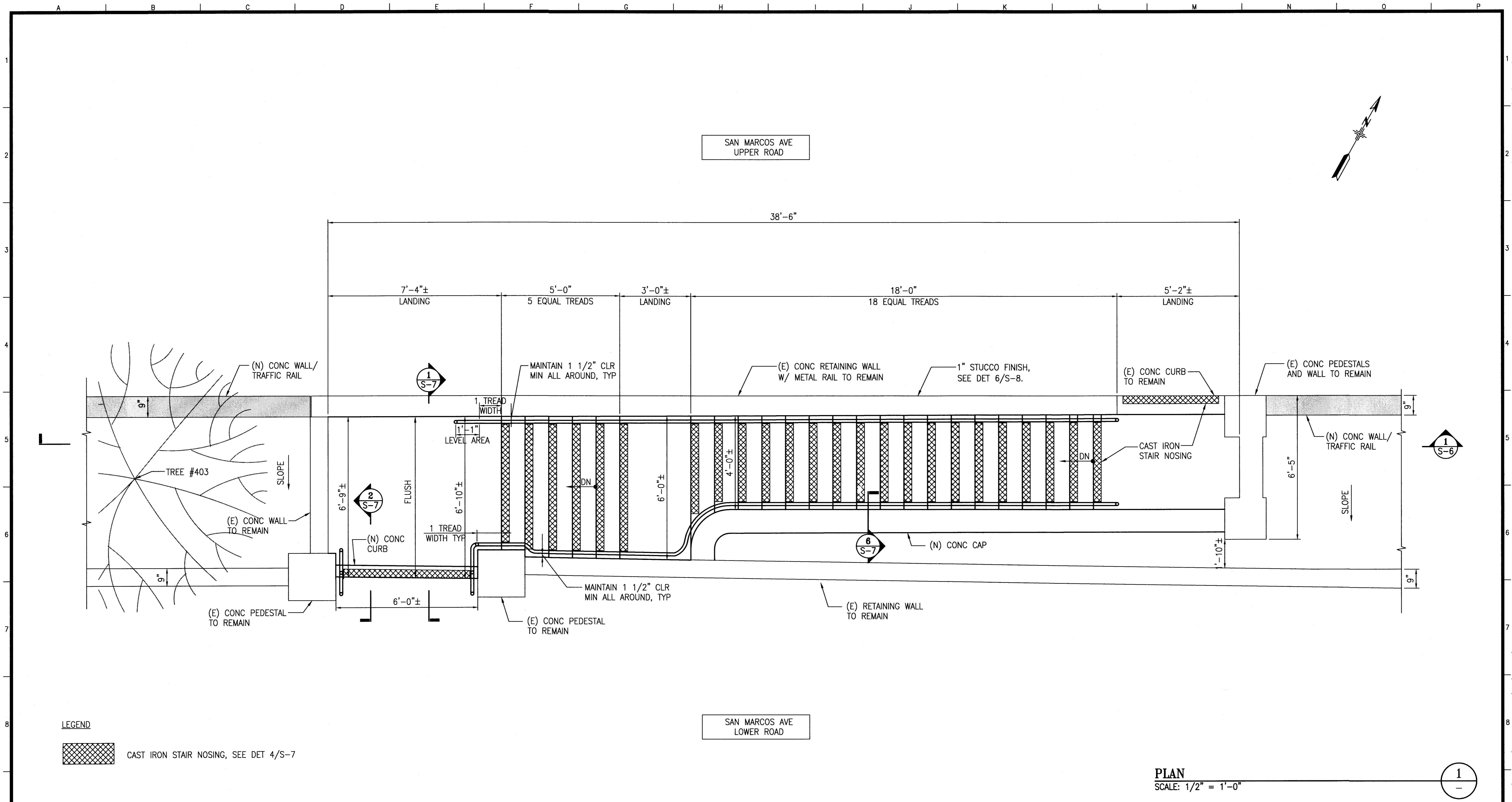
SHEET OF SHEETS: 28 OF 39

SAN MARCOS AVENUE AND SANTA RITA AVENUE ROADWAY IMPROVEMENT

STAIR DEMOLITION PLAN

CONTRACT NO.	2438J
DRAWING NO.	S-4
FILE NO.	100,710
REV. NO.	0

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 Model Units: Inches
 Login: elwong



LEGEND

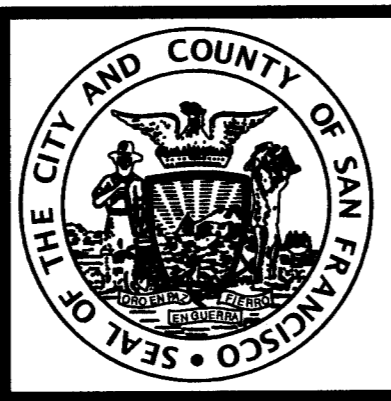
CAST IRON STAIR NOSING, SEE DET 4/S-7

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

- SHEET NOTE:**
- (E) RETAINING WALL, (E) PEDESTALS, AND (E) TREES SHALL BE PROTECTED AND REMAIN UNDAMAGED DURING DEMOLITION AND CONSTRUCTION.
 - CONTRACTOR SHALL ACCURATELY ESTABLISH CONTROL POINT COORDINATES AND ELEVATIONS BASED ON BUREAU OF STREET USE AND MAPPING TOPOGRAPHIC SURVEY DATED 9/5/2013, PRIOR TO DEMOLITION AND CONSTRUCTION OF NEW WALL AND STAIR.
 - ALL NEW ROADWAY SURFACES SHALL CONFORM WITH (N) ELEVATIONS AND FINISHED GRADES, SEE ROADWAY DWGS.
 - ALL STEPS AND LANDINGS SHALL SLOPE TOWARD WEST (DOWNWARD). ALL WALKING SURFACE SLOPES SHALL NOT EXCEED 2% MAX IN ANY DIRECTION. ALL WALKING SURFACES SHALL PROVIDE POSITIVE DRAINAGE OF SURFACE WATER, 1/2% (0.5%) MIN.
 - MEDIUM BROOM SLIP RESISTANCE FINISH ON ALL CONCRETE WALKS, STAIRS, AND LANDING SURFACES. DIRECTION OF BROOM STROKES TO BE PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAVEL.
 - SEE ROADWAY DWGS AND SEWER DWGS FOR INFO NOT SHOWN.

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
THIS DRAWING WAS LAST MODIFIED: 06/04/15 08:49, BY: elwong				

REFERENCE INFORMATION
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DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



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DRAWN: DATE: EW 5/2015
CHECKED: DATE: RL 5/2015

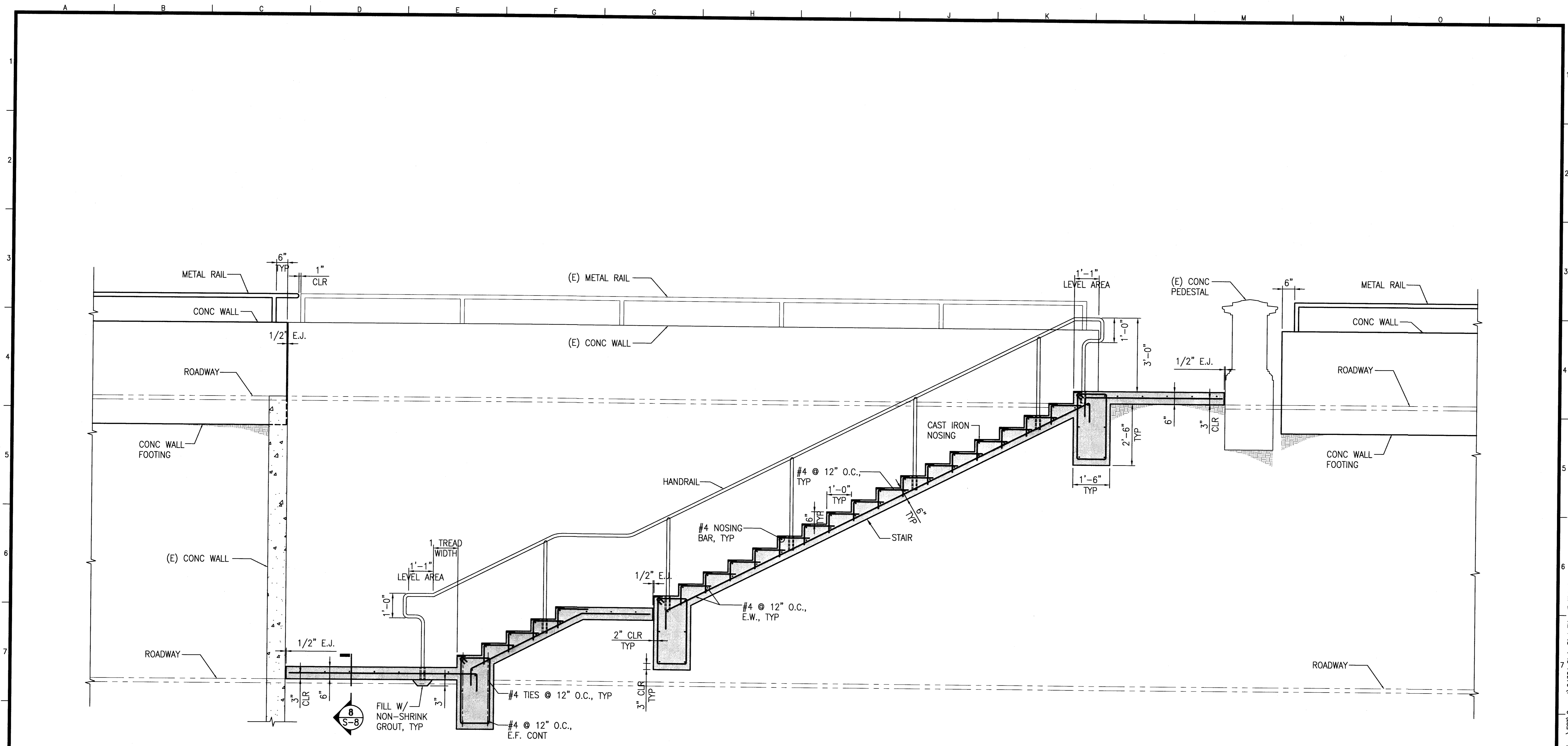
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SECTION MANAGER DATE: 6/4/15
DEPUTY DIVISION MANAGER DATE: 6/4/15
DIVISION MANAGER DATE:

SCALE: AS NOTED
SHEET OF SHEETS: 29 OF 39

SAN MARCOS AVENUE AND SANTA RITA AVENUE
ROADWAY IMPROVEMENT
STAIR
PLAN

CONTRACT NO. 2438J
DRAWING NO. S-5
FILE NO. 100,711
REV. NO. 0

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NOTE:
 1. FOR INFO NOT SHOWN, SEE S-7 AND S-8.

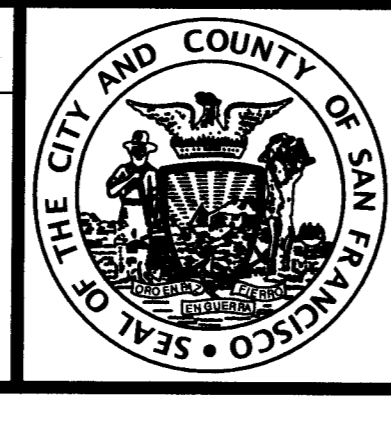
- SHEET NOTE:**
- (E) RETAINING WALL, (E) PEDESTALS, AND (E) TREES SHALL BE PROTECTED AND REMAIN UNDAMAGED DURING DEMOLITION AND CONSTRUCTION.
 - CONTRACTOR SHALL ACCURATELY ESTABLISH CONTROL POINT COORDINATES AND ELEVATIONS BASED ON BUREAU OF STREET USE AND MAPPING TOPOGRAPHIC SURVEY DATED 9/5/2013, PRIOR TO DEMOLITION AND CONSTRUCTION OF NEW WALL AND STAIR.
 - ALL NEW ROADWAY SURFACES SHALL CONFORM WITH (N) ELEVATIONS AND FINISHED GRADES, SEE ROADWAY DWGS.
 - ALL STEPS AND LANDINGS SHALL SLOPE TOWARD WEST (DOWNWARD). ALL WALKING SURFACE SLOPES SHALL NOT EXCEED 2% MAX IN ANY DIRECTION. ALL WALKING SURFACES SHALL PROVIDE POSITIVE DRAINAGE OF SURFACE WATER, 1/2% (0.5%) MIN.
 - MEDIUM BROOM SLIP RESISTANCE FINISH ON ALL CONCRETE WALKS, STAIRS, AND LANDING SURFACES. DIRECTION OF BROOM STROKES TO BE PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAVEL.
 - SEE ROADWAY DWGS AND SEWER DWGS FOR INFO NOT SHOWN.

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

1

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
THIS DRAWING WAS LAST MODIFIED: 06/04/15 08:49, BY: elwong				

REFERENCE INFORMATION
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INFRASTRUCTURE DIVISION
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE: EW 5/2015
 DRAWN: DATE: EW 5/2015
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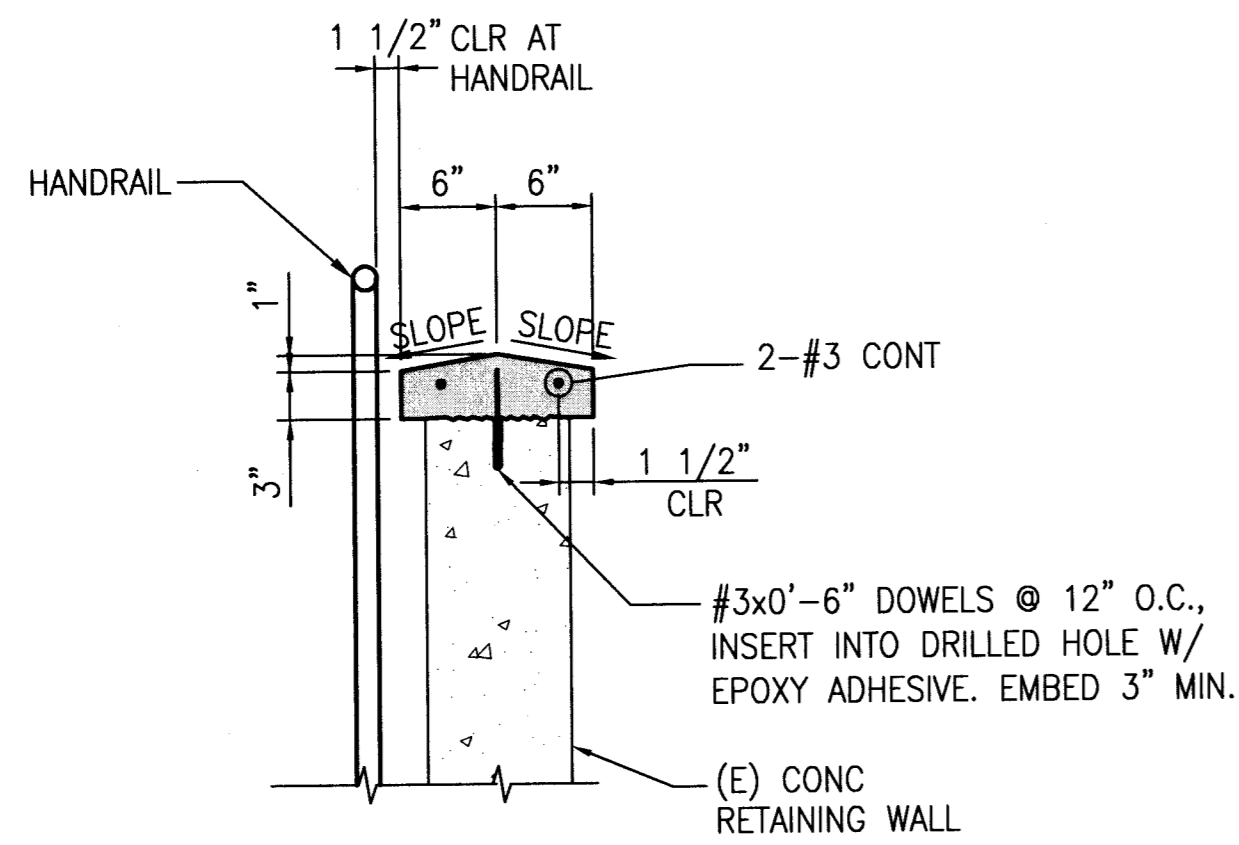
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 DIVISION MANAGER DATE: 6/4/15

SCALE: AS NOTED
 SHEET OF SHEETS: 30 OF 39

SAN MARCOS AVENUE AND SANTA RITA AVENUE
 ROADWAY IMPROVEMENT
 STAIR
 ELEVATION

CONTRACT NO. 2438J
 DRAWING NO. S-6
 FILE NO. 100,712
 REV. NO. 0

Drawing Path: V:\2438J_San_Marcos_Roadway_Repairs_Phase_2\2-Design\Working_Drawings\EST\Current\2438J_Stair_Elevation_S-6.dwg, Login: elwong
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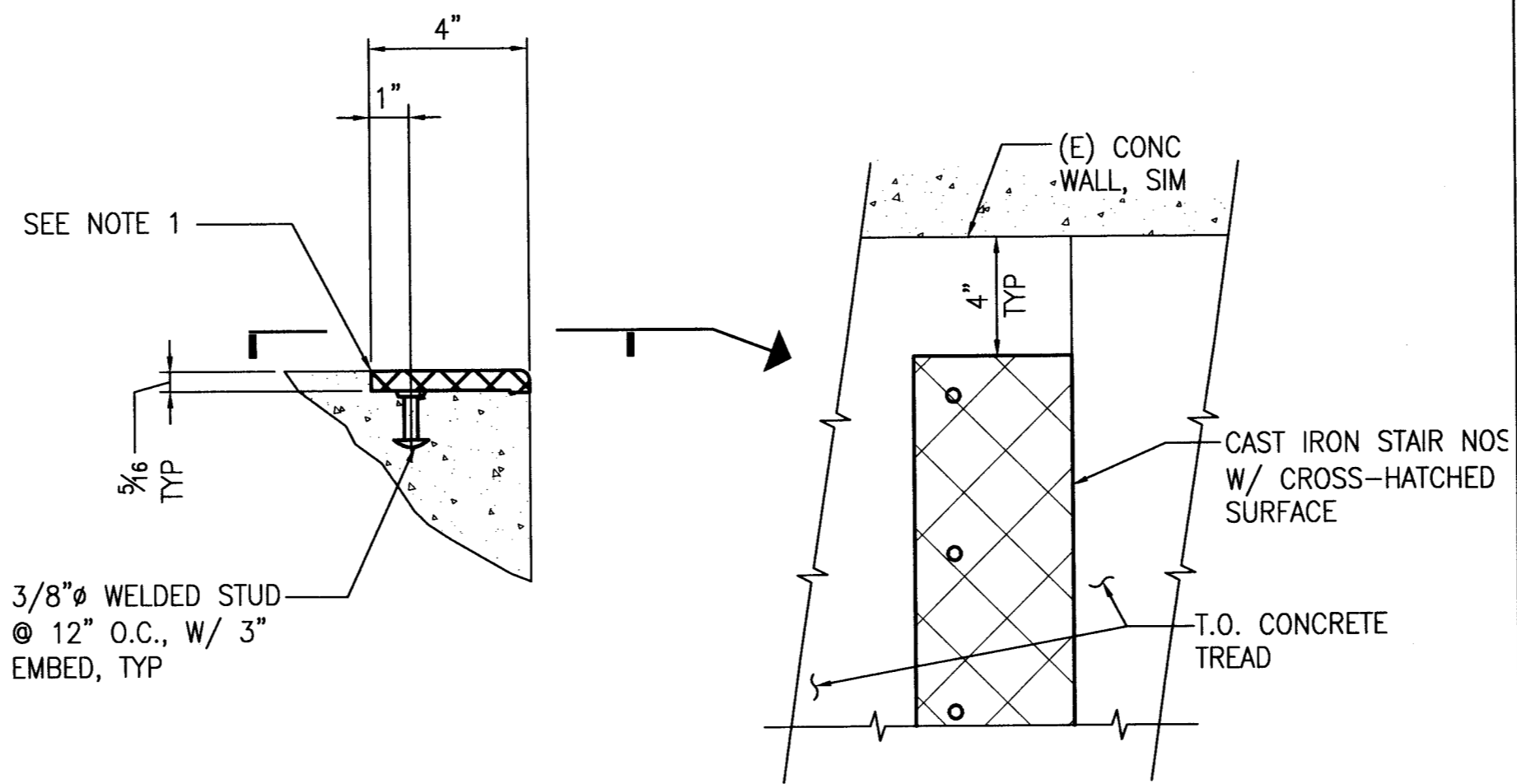


NOTE: CONCRETE CAP SHALL MATCH (E) CAP GEOMETRY AND DETAILING

SECTION

SCALE: 1" = 1'-0"

6



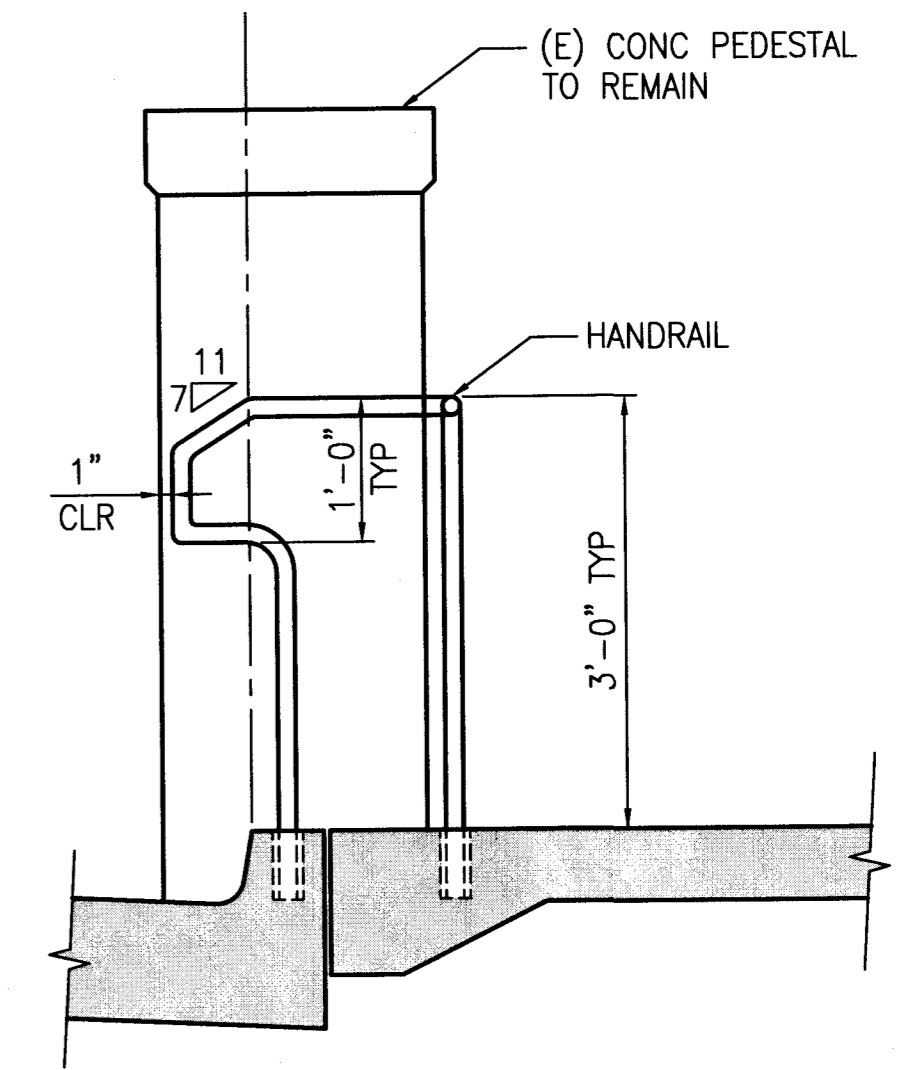
NOTE:

1. STAIR NOSING SHALL BE CAST IRON (CAST-ON ANCHOR), AND INTEGRALLY CAST INTO CONCRETE TREAD. NOSING SHALL HAVE CROSS-HATCHED SURFACE DESIGN, W/ COLOR BLACK, TYPE 801 MANUFACTURED BY AMERICAN SAFETY TREAD COMPANY, HELENA, ALABAMA, OR EQUAL

TYPICAL STAIR NOSING

SCALE: 3" = 1'-0"

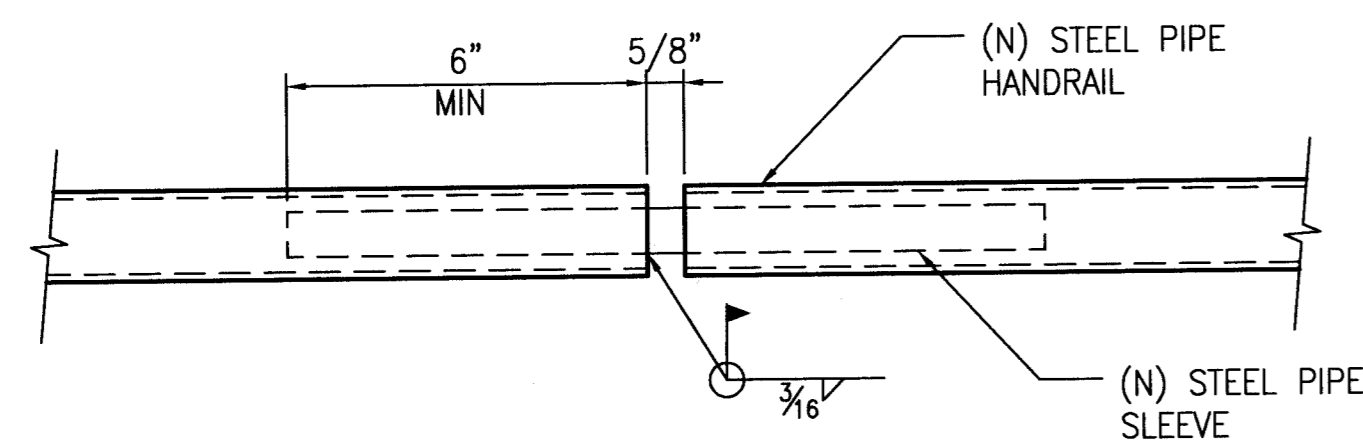
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SECTION

SCALE: 3/4" = 1'-0"

2

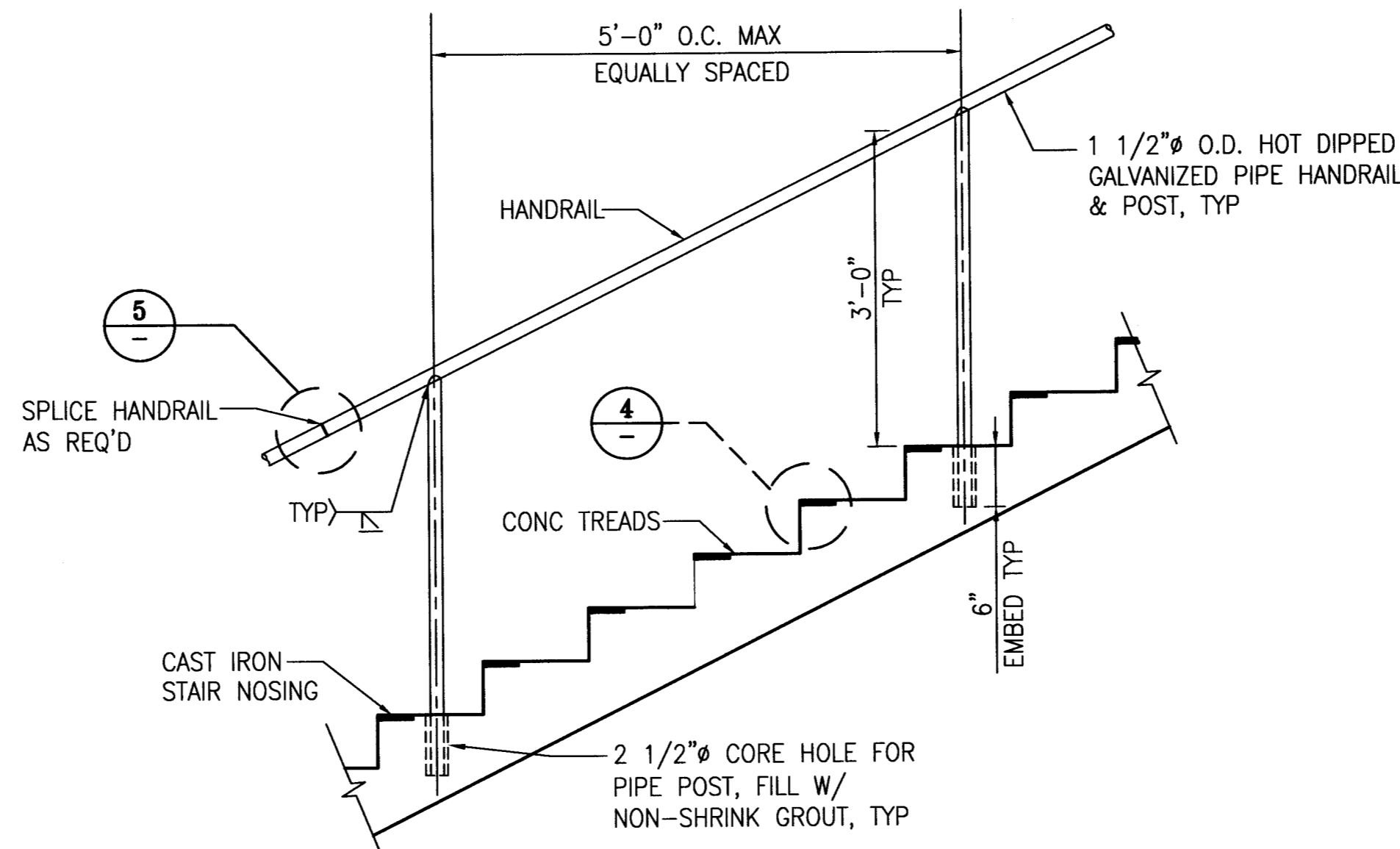


NOTE:
CONTRACTOR TO SUBMIT SPLICE LOCATION TO CITY REPRESENTATIVES FOR APPROVAL PRIOR TO FABRICATION

SECTION

SCALE: 3/4" = 1'-0"

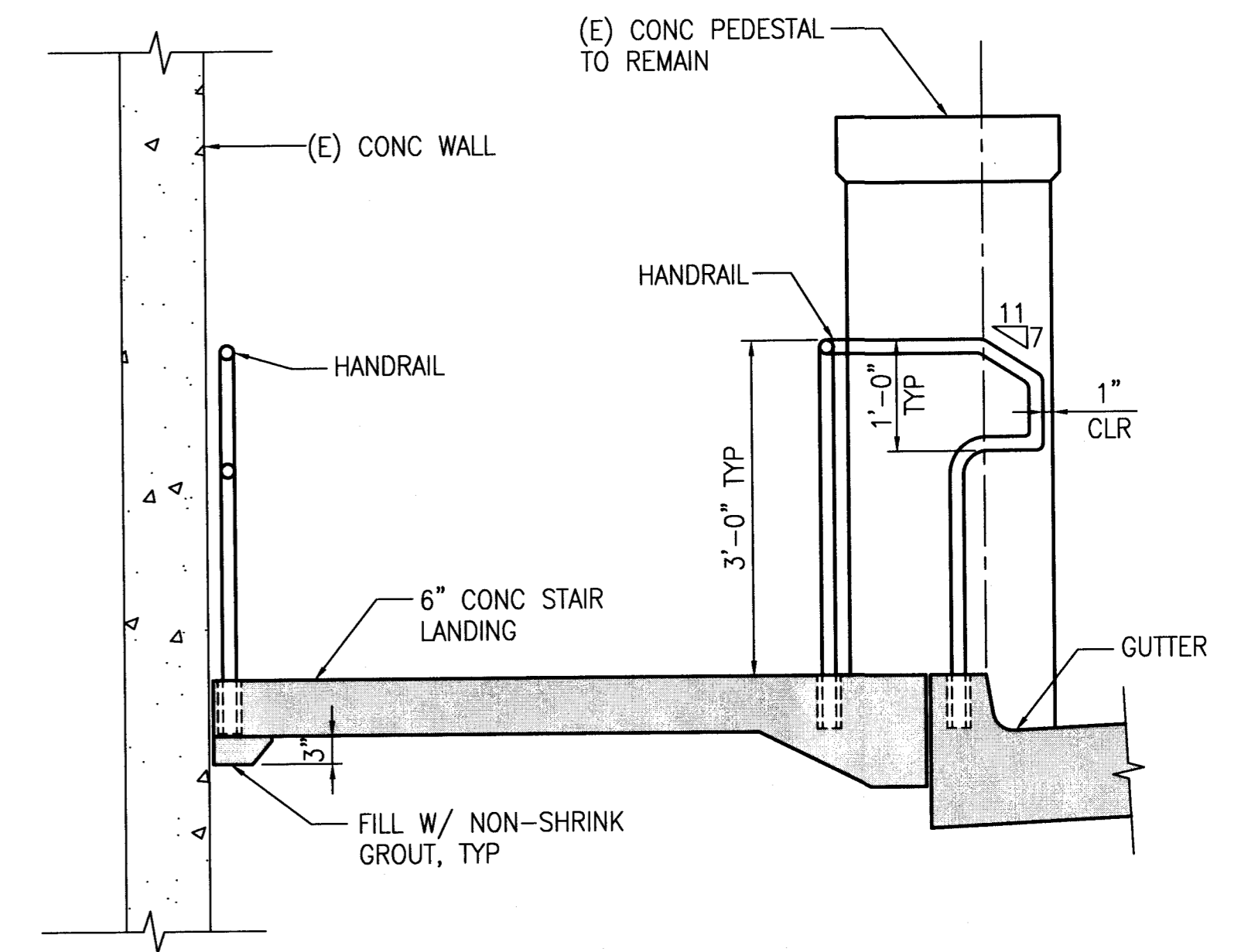
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SECTION

SCALE: 3/4" = 1'-0"

3



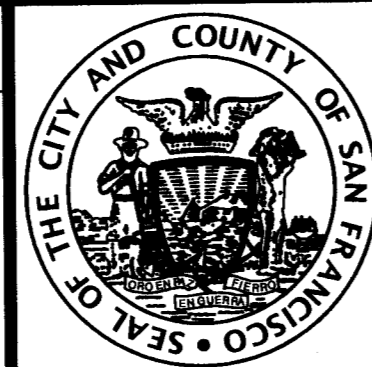
SECTION

SCALE: 3/4" = 1'-0"

1

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
THIS DRAWING WAS LAST MODIFIED: 05/29/15 11:25, BY: elwong				

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



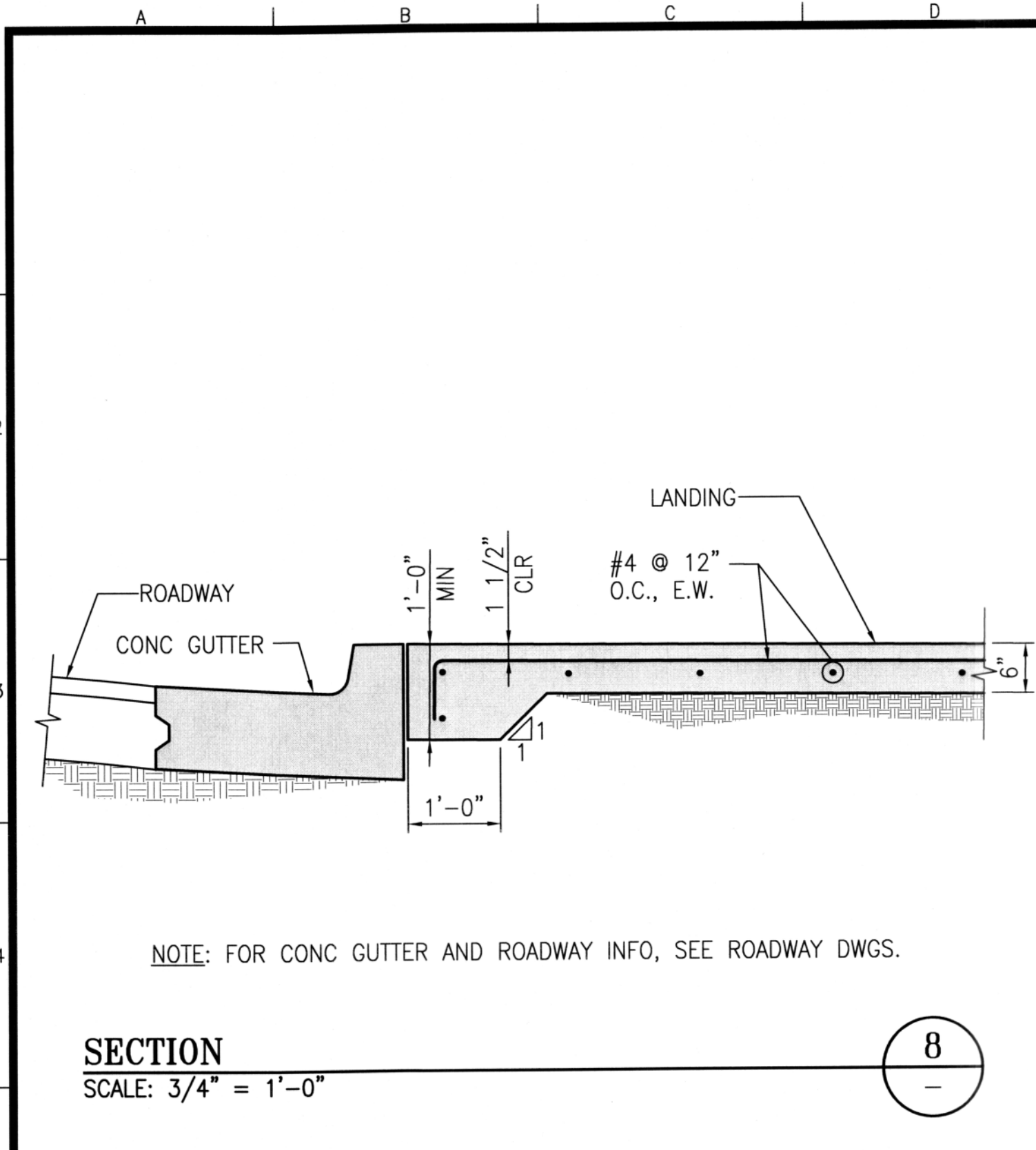
DESIGNED: EW	DATE: 5/2015	APPROVED: [Signature]	DATE: 6/4/15
DRAWN: EW	DATE: 5/2015	SECTION MANAGER: [Signature]	DATE: 6/1/15
CHECKED: RL	DATE: 2/5/2015	DEPUTY DIVISION MANAGER: [Signature]	DATE: 6/4/15
		DIVISION MANAGER: [Signature]	DATE: 6/4/15

SCALE: AS NOTED
SHEET OF SHEETS: 31 OF 39

SAN MARCOS AVENUE AND SANTA RITA AVENUE
ROADWAY IMPROVEMENT
STAIR
SECTION AND DETAILS

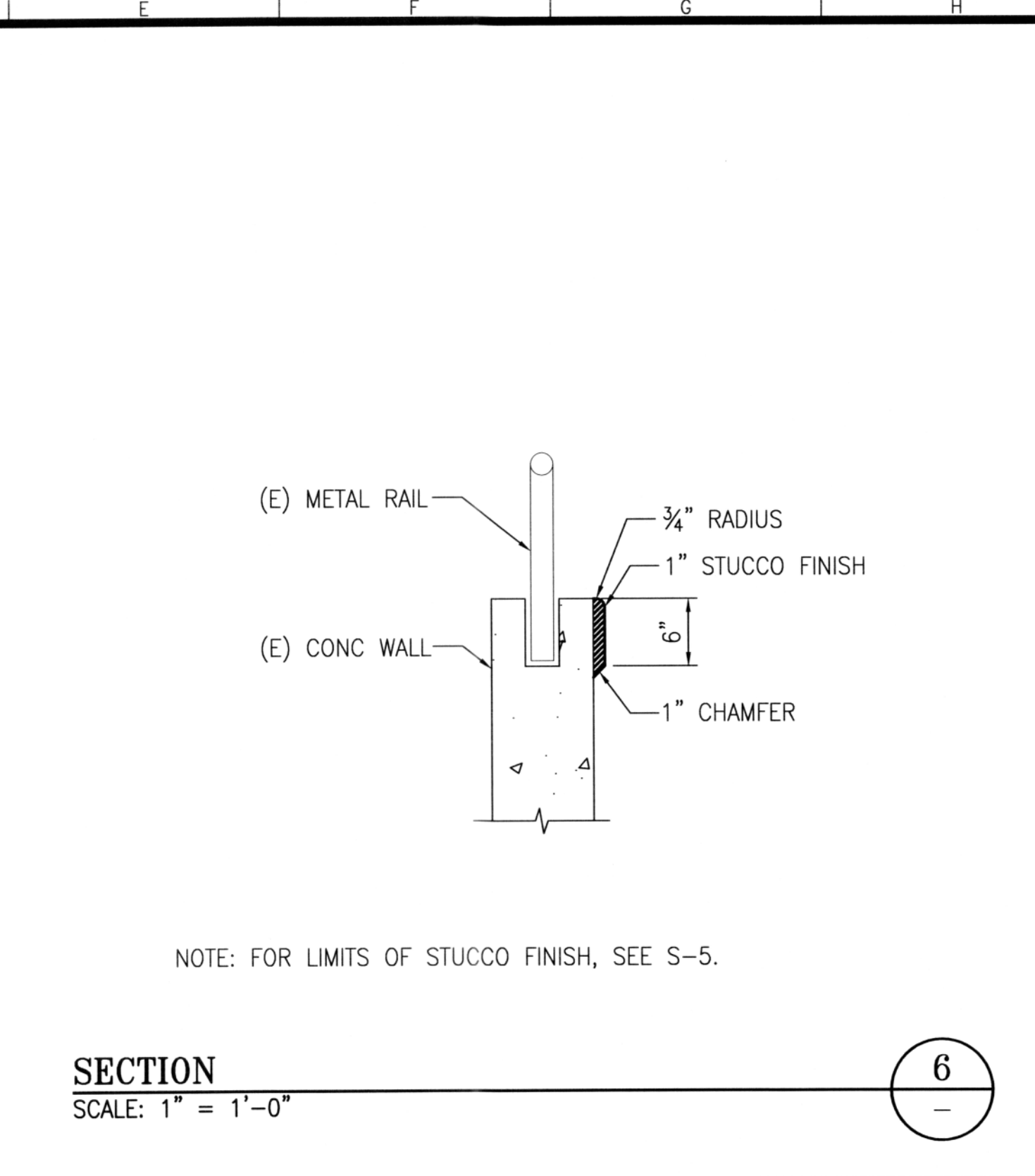
CONTRACT NO. 2438J
DRAWING NO. S-7
FILE NO. 100,713
REV. NO. 0

Drawing Path: V:\2438J_San_Marcos_Roadway_Repair_Phase_2\2_Design_Working_Drawings\EST\Current\2438J Stair Section.dwg
 User: elwong
 Plot Time: Thu, 04 Jun 2015 8:52am
 Units: Inches



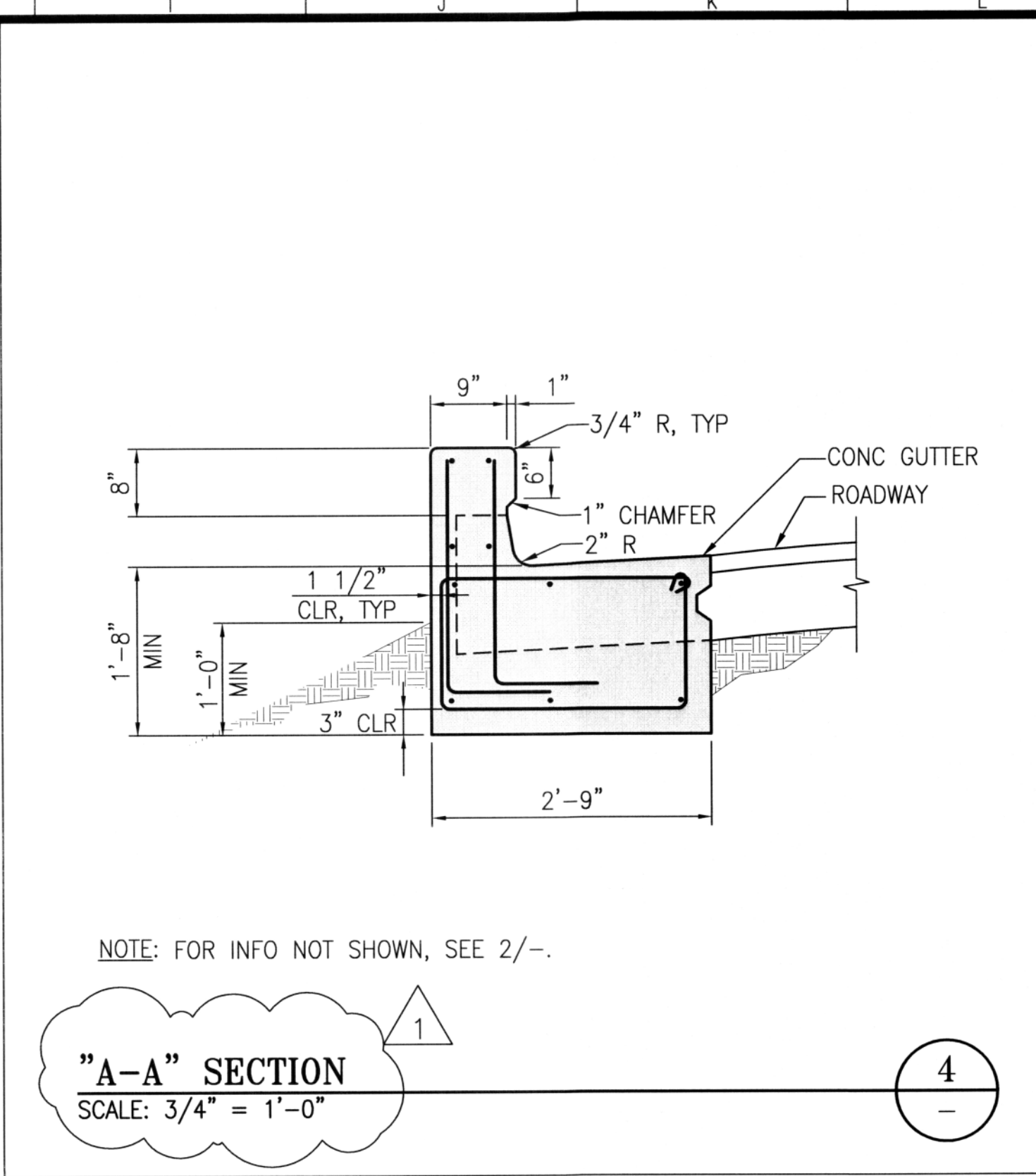
NOTE: FOR CONC GUTTER AND ROADWAY INFO, SEE ROADWAY DWGS.

SECTION 8
SCALE: 3/4" = 1'-0"



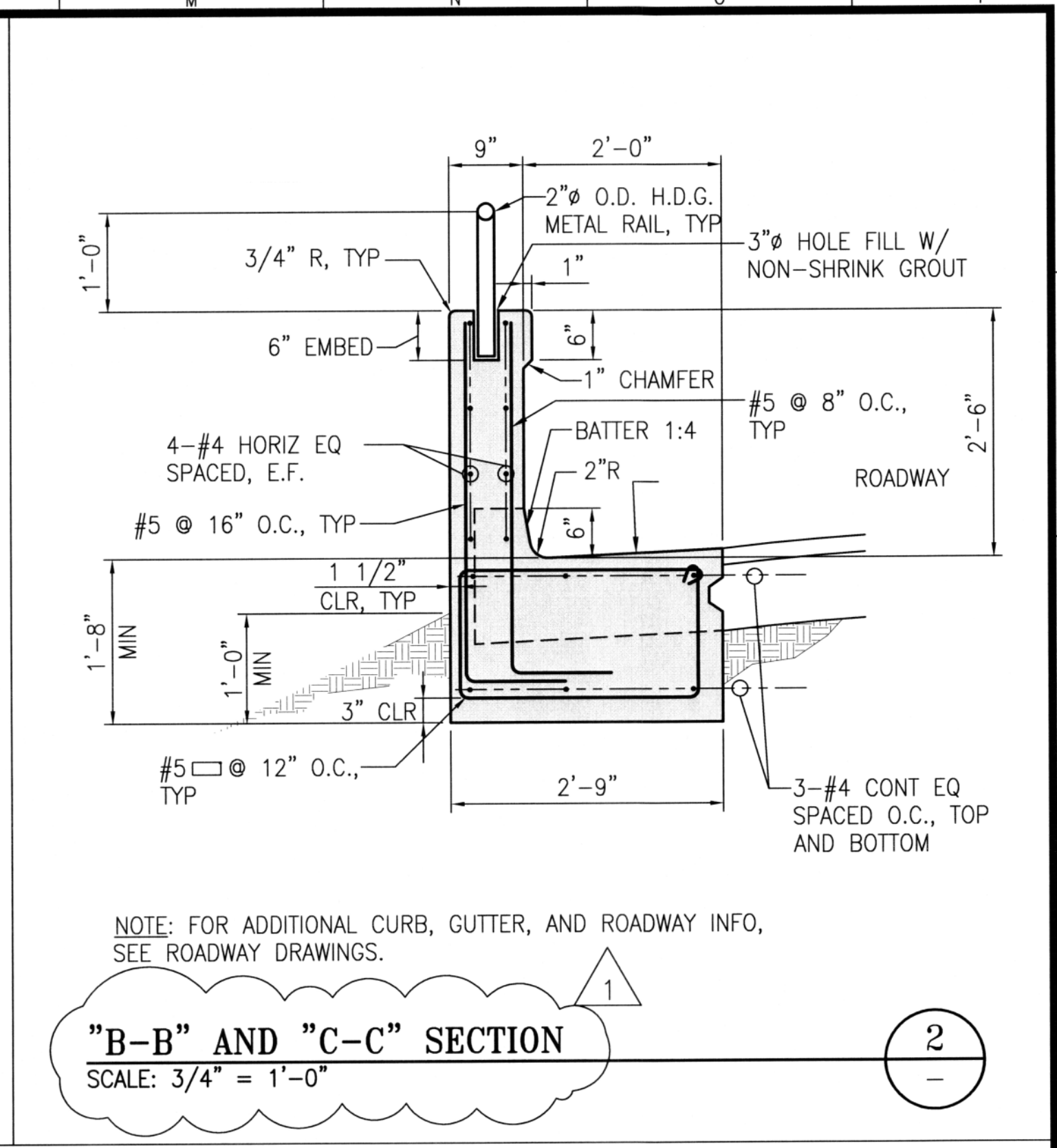
NOTE: FOR LIMITS OF STUCCO FINISH, SEE S-5.

SECTION 6
SCALE: 1" = 1'-0"



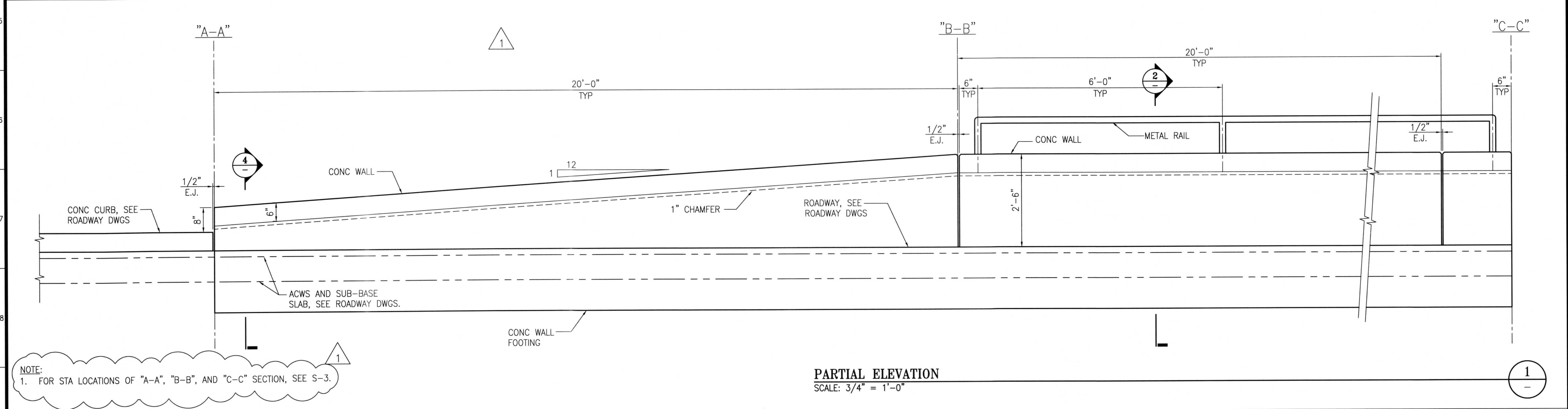
NOTE: FOR INFO NOT SHOWN, SEE 2/-.

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



NOTE: FOR ADDITIONAL CURB, GUTTER, AND ROADWAY INFO, SEE ROADWAY DRAWINGS.

"B-B" AND "C-C" SECTION
SCALE: 3/4" = 1'-0"



NOTE:
1. FOR STA LOCATIONS OF "A-A", "B-B", AND "C-C" SECTION, SEE S-3.

PARTIAL ELEVATION
SCALE: 3/4" = 1'-0"

- SHEET NOTE:**
- (E) RETAINING WALL, (E) PEDESTALS, AND (E) TREES SHALL BE PROTECTED AND REMAIN UNDAMAGED DURING DEMOLITION AND CONSTRUCTION.
 - CONTRACTOR SHALL ACCURATELY ESTABLISH CONTROL POINT COORDINATES AND ELEVATIONS BASED ON BUREAU OF STREET USE AND MAPPING TOPOGRAPHIC SURVEY DATED 9/5/2013, PRIOR TO DEMOLITION AND CONSTRUCTION OF NEW WALL AND STAIR.
 - ALL NEW ROADWAY SURFACES SHALL CONFORM WITH (N) ELEVATIONS AND FINISHED GRADES, SEE ROADWAY DRAWINGS.
 - FOR INFO NOT SHOWN, SEE ROADWAY AND SEWER DRAWINGS.

NO.	DATE	DESCRIPTION	BY	APP.
2/2016		ALIGNMENT CHANGE		

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 02/03/16 15:40, BY: elwong

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE: EW 2/2016	APPROVED: DATE: <i>Raymond Q. 3/4/16</i>
DRAWN: DATE: EW 2/2016	SECTION MANAGER
CHECKED: DATE: RL 2/2016	DEPUTY DIVISION MANAGER DATE:
	DIVISION MANAGER DATE:

SCALE: AS SHOWN
SHEET OF SHEETS: 32 OF 39

SAN MARCOS AVENUE AND SANTA RITA AVENUE ROADWAY IMPROVEMENT
STAIR AND WALL SECTION AND DETAIL

CONTRACT NO. 2438J
DRAWING NO. S-8
FILE NO. 100,714
REV. NO. 1

Xrefs: V:\2438J_San_Marcos_Roadway_Repair_Phase_2\2_Design_Working_Drawings\EST\Current\2438J_TBD.dwg
Model Units: Inches
Drawing Path: V:\2438J_San_Marcos_Roadway_Repair_Phase_2\2_Design_Working_Drawings\EST\Current\2438J_Section\2438J_Section.dwg
Plot Time: Thu, 10 Mar 2016 2:49pm

DEPARTMENT OF PUBLIC WORKS
 Office of the Disability Access Coordinator
 30 Van Ness Avenue, 5th floor
 San Francisco, CA 94102-6020
 (415) 557-4685

City Projects

CITY PROJECTS (All City owned or sponsored projects must complete the items listed below.)

The owner of this project is the City and County of San Francisco and is responsibly charged by

DEPARTMENT OF PUBLIC WORKS
 (Department / Agency)

TO: RAYMOND LUI, Project Manager
 FROM: Kevin Jensen, Disability Access Coordinator
 SUBJECT: DISABILITY ACCESS QUALITY ASSURANCE REVIEW
 PROJECT: 2438J-SAN MARCOS AVENUE AND SANTA RITA AVENUE ROADWAY IMPROVEMENT

CLIENT DEPARTMENT: DEPARTMENT OF PUBLIC WORKS
 DATE: MAY 29, 2015

THIS MEMO IS TO CONFIRM THAT I HAVE REVIEWED THE CONSTRUCTION DOCUMENTS AND THE APPLICABLE FEDERAL AND STATE REQUIREMENTS FOR ACCESSIBILITY FOR THE ABOVE NOTED PROJECT.

Sincerely,



Kevin Jensen
 Disability Access Coordinator
 Department of Public Works

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
THIS DRAWING WAS LAST MODIFIED: 05/29/15 11:44, BY: elwong				

REFERENCE INFORMATION
 & FILE NO. OF SURVEYS



INFRASTRUCTURE DIVISION
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE: EW 5/2015
 DRAWN: DATE: EW 5/2015
 CHECKED: DATE: RL 5/2015

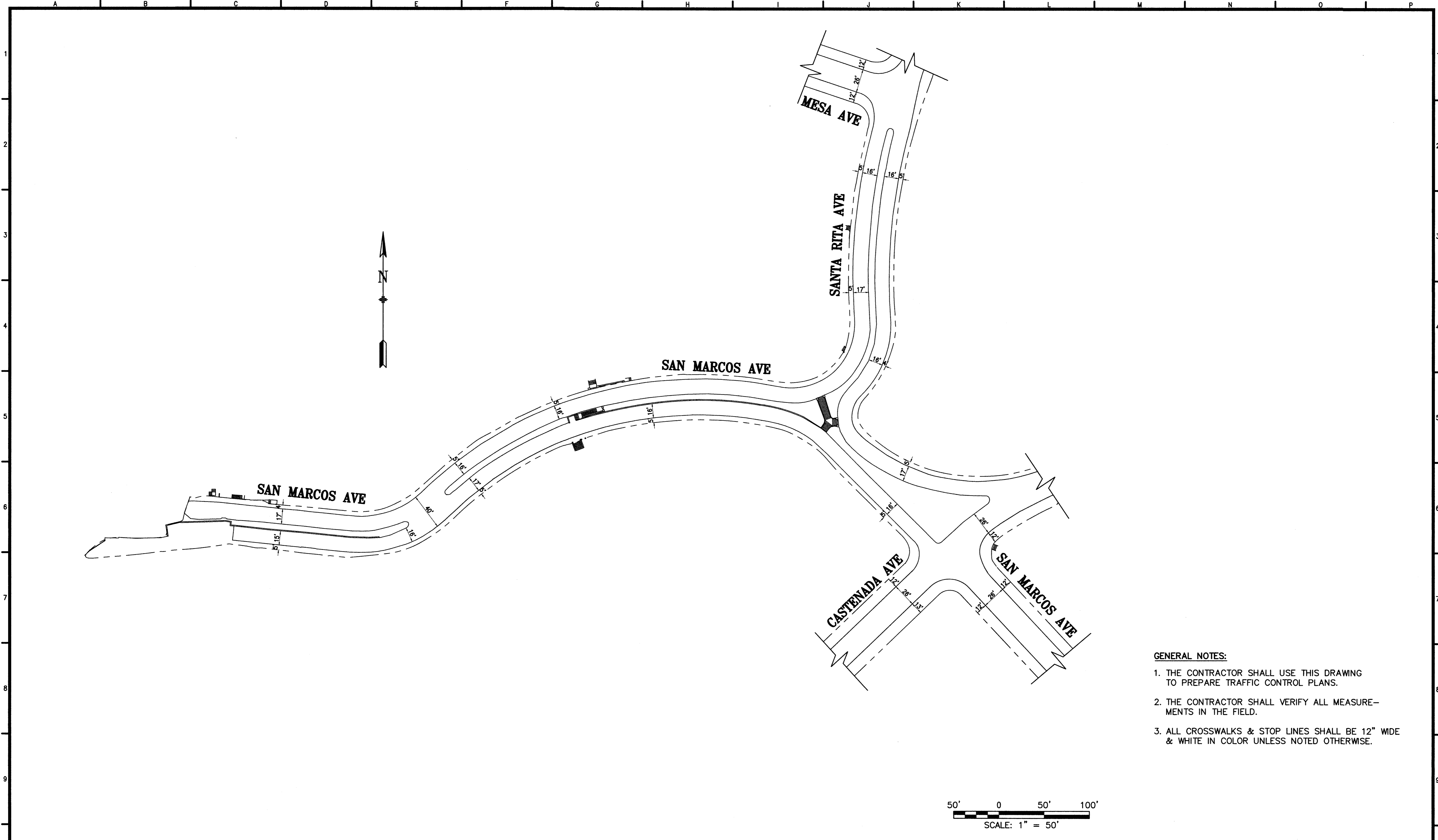
APPROVED
 SECTION MANAGER DATE: 6/4/15
 DEPUTY DIVISION MANAGER DATE: 6/4/15
 DIVISION MANAGER DATE: 6/4/15

SCALE: AS SHOWN
 SHEET OF SHEETS: 33 OF 39

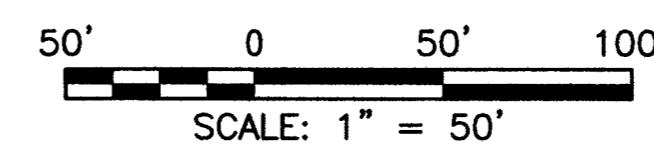
SAN MARCOS AVENUE AND SANTA RITA AVENUE
 ROADWAY IMPROVEMENT
 DISABLED ACCESS LETTER

CONTRACT NO. 2438J
 DRAWING NO. S-9
 FILE NO. 100,715
 REV. NO. 0

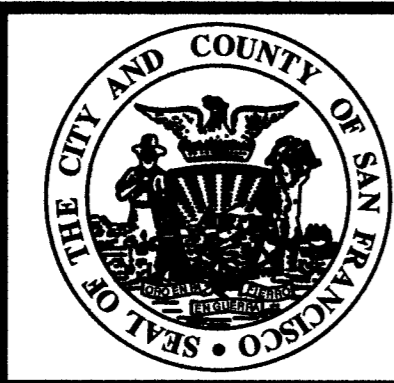
Drawing Path: V:\2438J_San_Marcos_Roadway_Repair_Phase_2\2_Design_Working_Drawings\EST\Current\2438J ADA F01merish0806p12.dwg; elwong
 Plot Time: Thu, 04 Jun 2015 - 8:26am
 Model Units: Inches
 Xrefs: \2438J_TBD.dwg



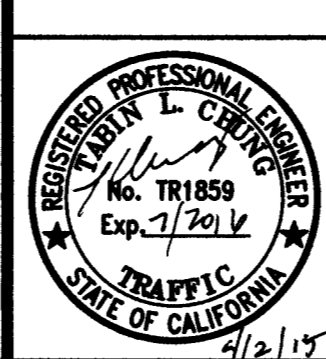
- GENERAL NOTES:**
1. THE CONTRACTOR SHALL USE THIS DRAWING TO PREPARE TRAFFIC CONTROL PLANS.
 2. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS IN THE FIELD.
 3. ALL CROSSWALKS & STOP LINES SHALL BE 12" WIDE & WHITE IN COLOR UNLESS NOTED OTHERWISE.



NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION				



SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY
CITY AND COUNTY OF SAN FRANCISCO



DRAWN: DATE: 10/14		AW	
CHECKED: DATE: 10/14		CA	
APPROVED: 4/2/2015		SENIOR ENGINEER	
APPROVED: 4/2/2015		Ricardo Olea CITY TRAFFIC ENGINEER	

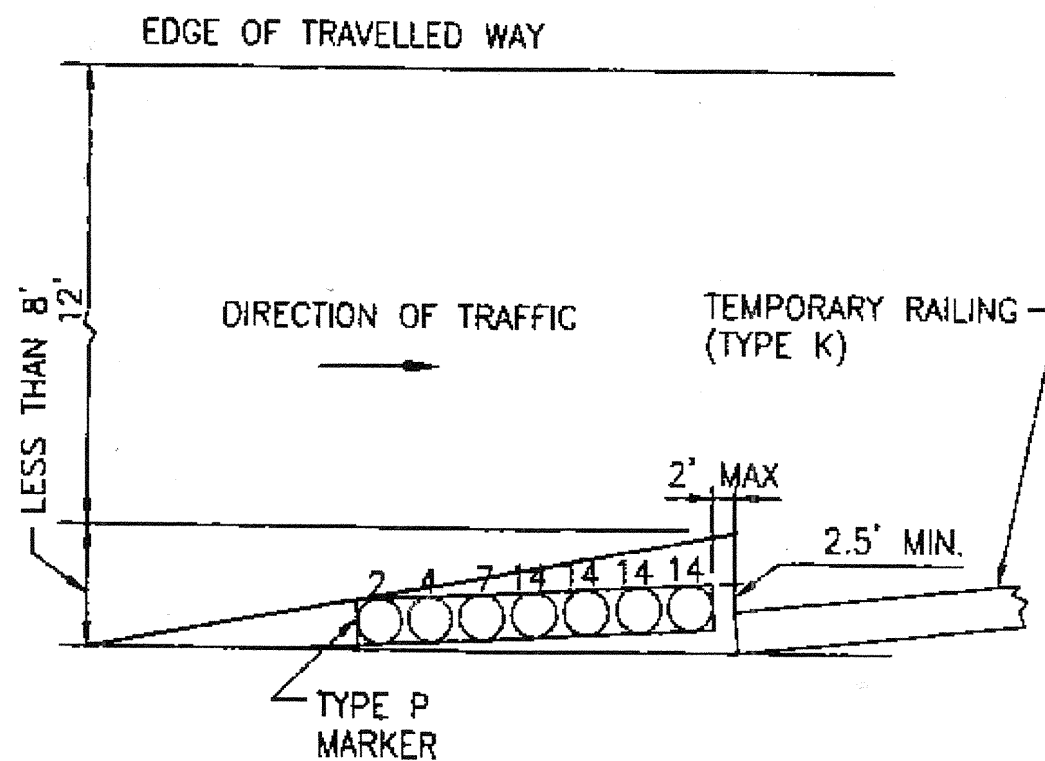
SCALE:
1" = 50'
SHEET OF SHEETS
34 OF 39

**SANTA RITA AND SAN MARCOS AVE
ROADWAY IMPROVEMENT PHASE 2**

**SANTA RITA AND SAN MARCOS AVE
EXISTING STRIPING PLAN**

CONTRACT NO. 2438J
DRAWING NO. T-1
FILE NO. 100,716
REV. NO.

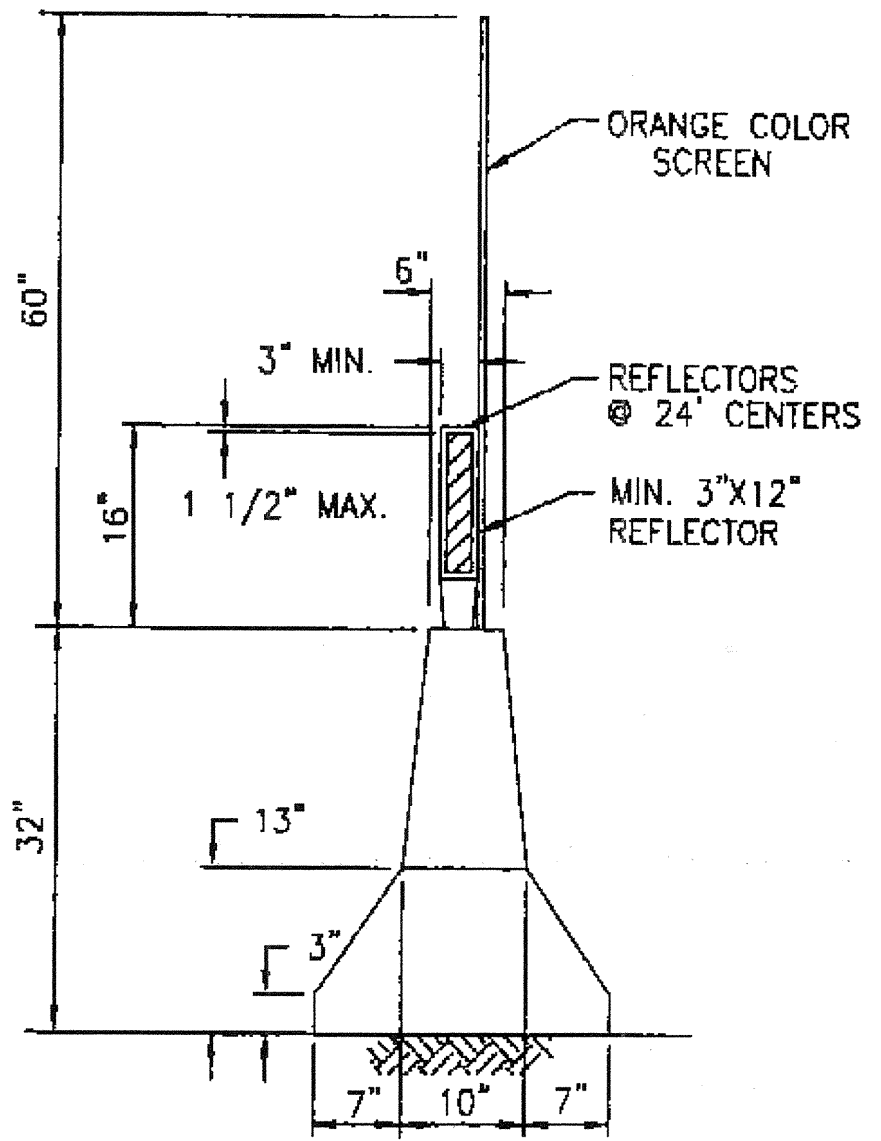
EXTERNAL REFERENCES:
FONTS USED:
SCALE FACTOR:
PLOT SCALE:
ORIGIN:
FILE NAME:
DATE:



CRASH CUSHIONS

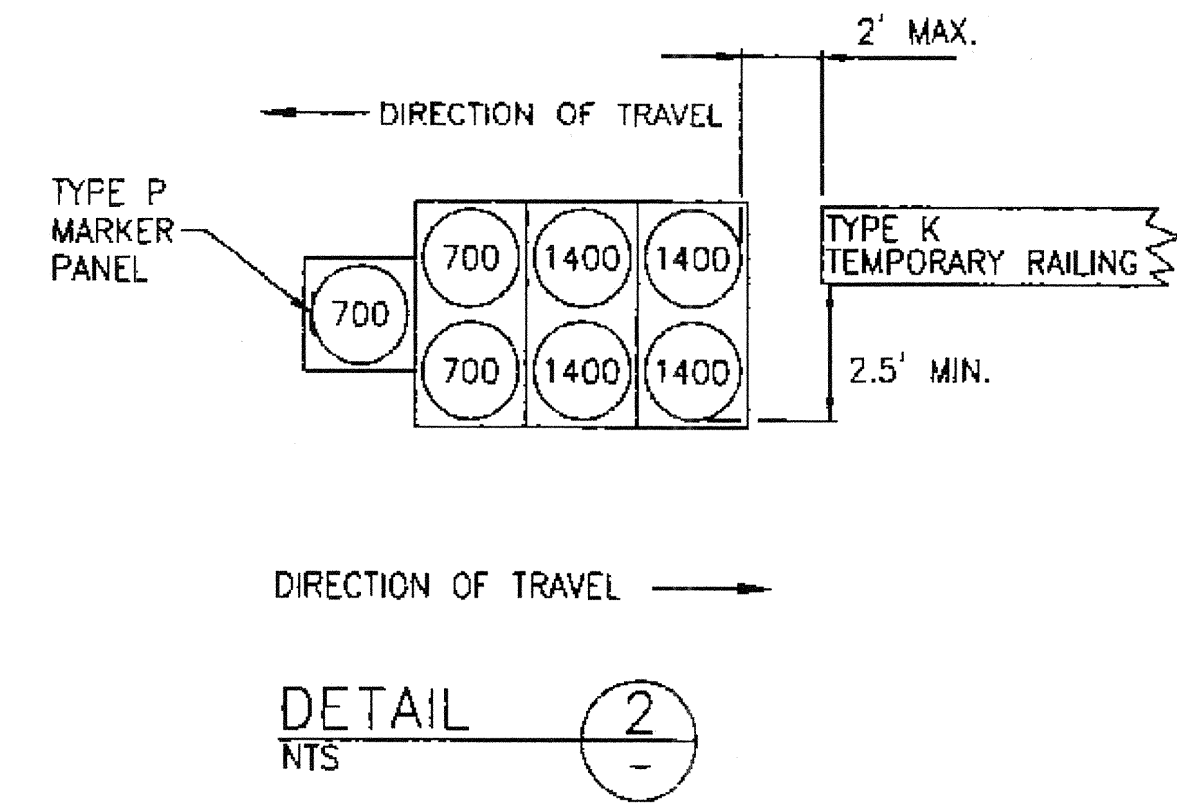
DETAIL 1
NTS

NOTE: NUMBER ON TOP OF THE CIRCLE SHOWS WEIGHT OF LOOSE SAND IN HUNDREDS OF POUNDS IN THE BARREL

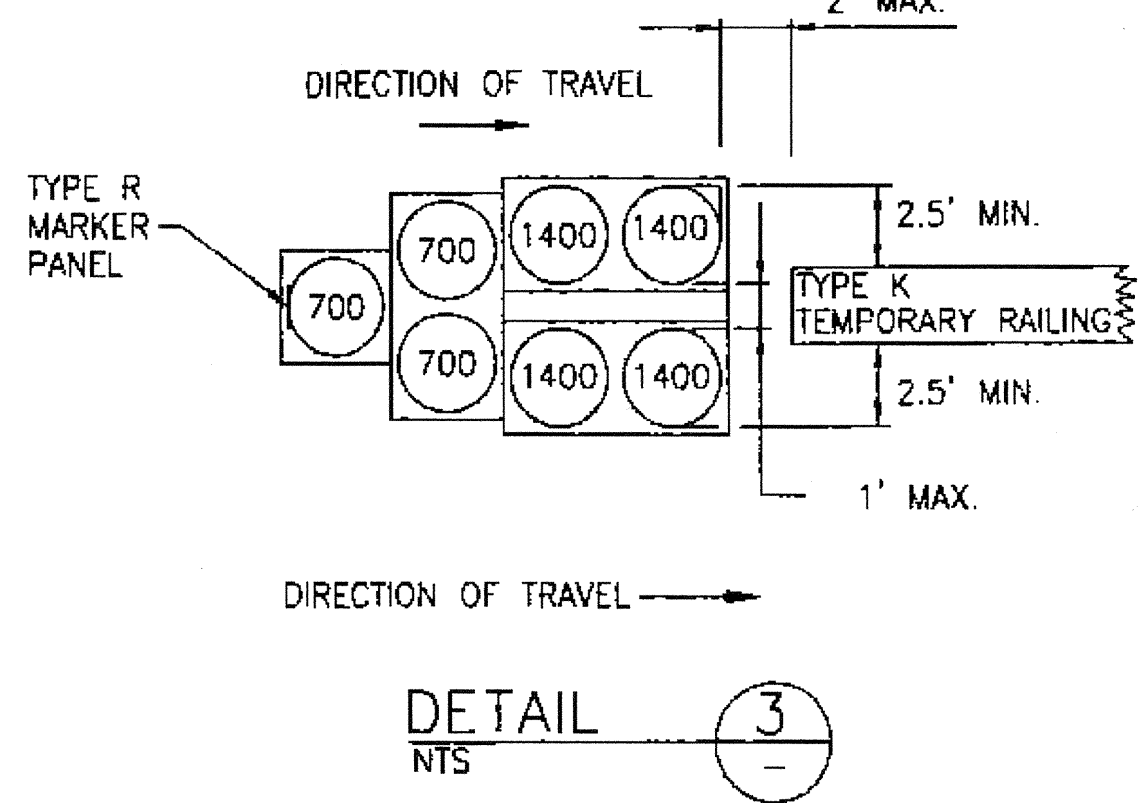


CONC. BARRIER DELINEATOR
(ORANGE POST WITH WHITE REFLECTORS ON THE RIGHT SIDE OF TRAVEL SIDE)

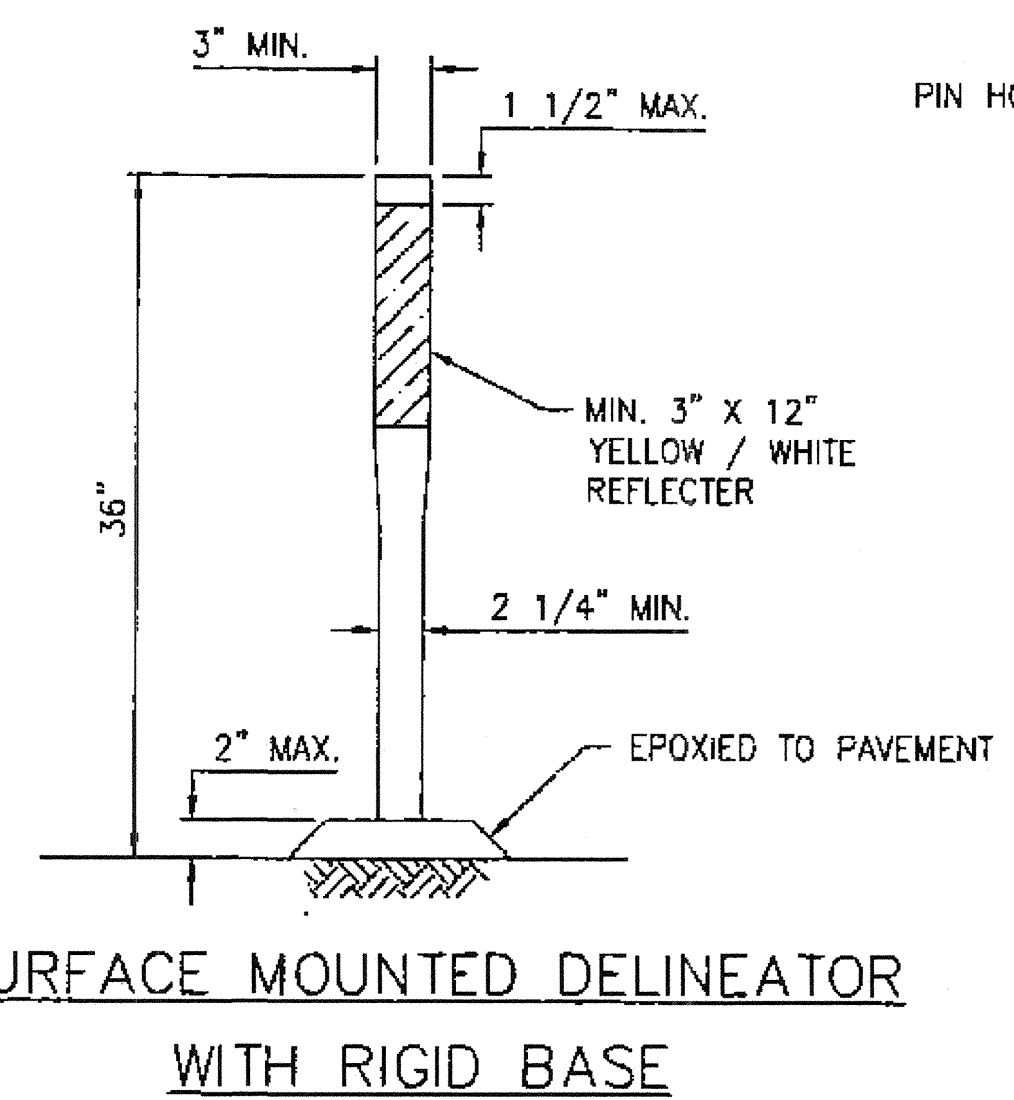
DETAIL 6
NTS



DETAIL 2
NTS



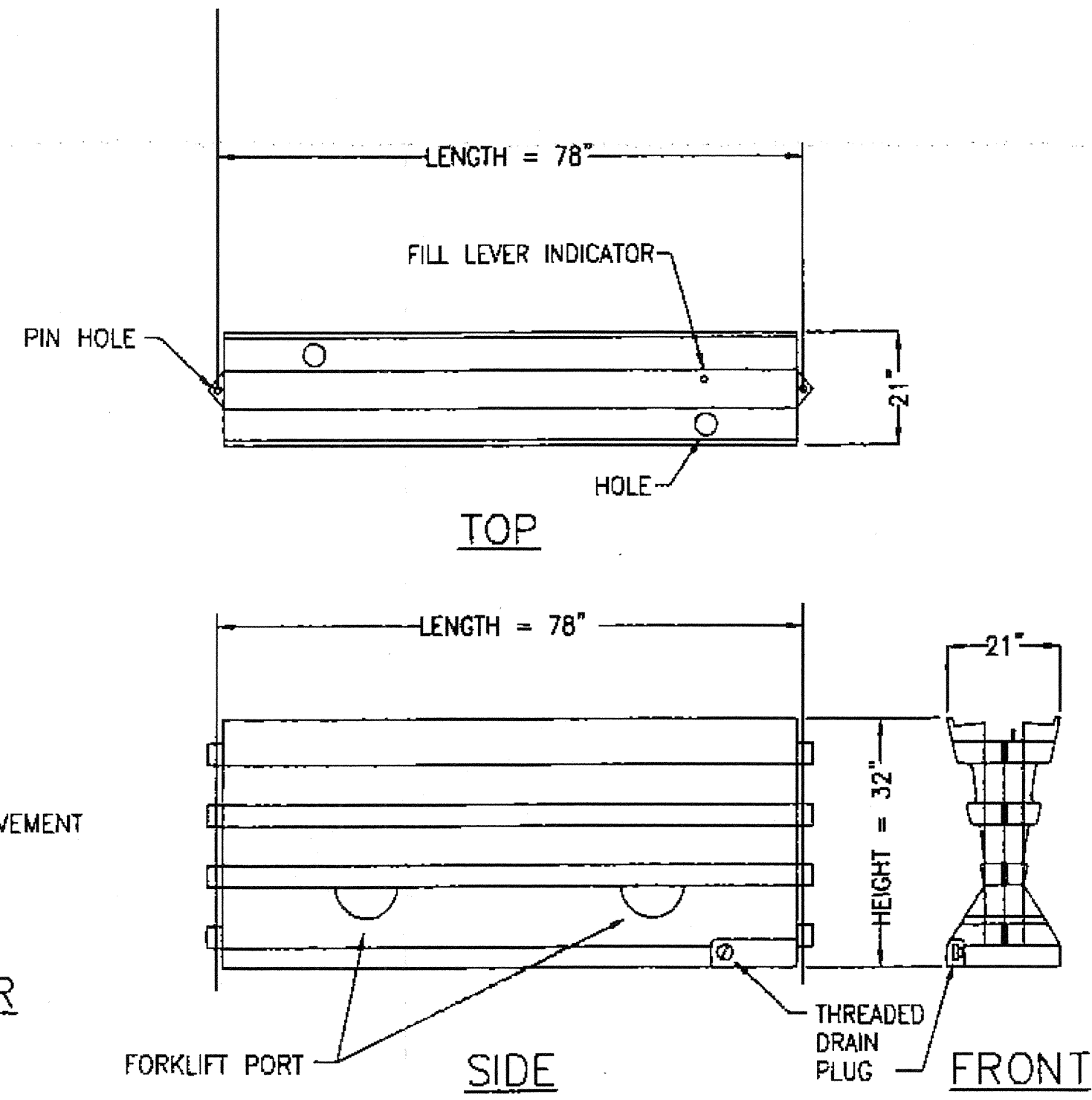
DETAIL 3
NTS



SURFACE MOUNTED DELINEATOR WITH RIGID BASE

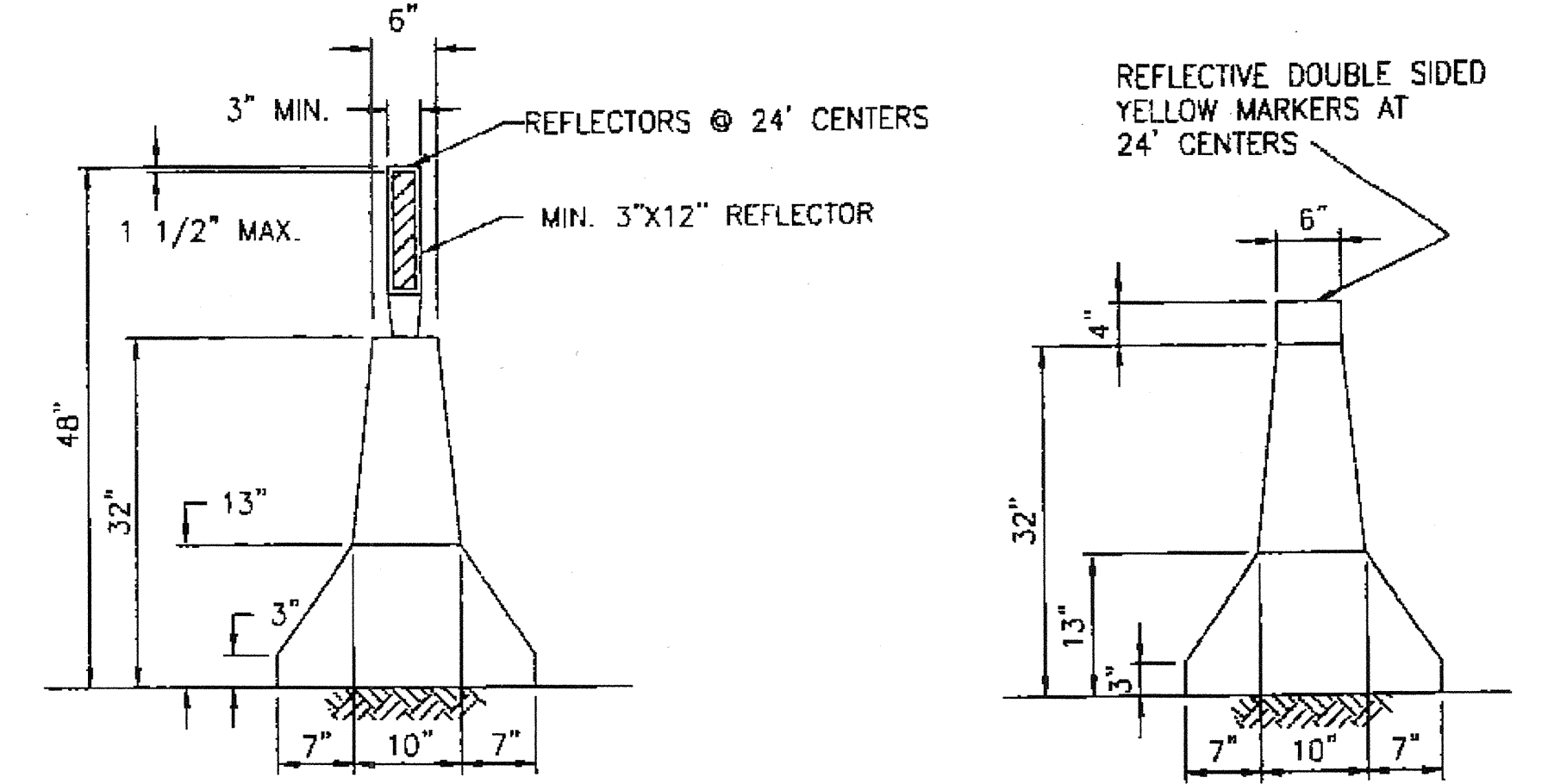
DETAIL 7
NTS

- NOTES:
1. THESE ARE NOT CONSTRUCTION DRAWINGS. THESE ARE INCLUDED ONLY FOR THE ASSISTANCE OF THE CONTRACTOR.
 2. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS IN THE FIELD.
 3. ALL CROSSWALKS AND "STOP" LINES SHALL BE 12" SOLID WHITE UNLESS NOTED OTHERWISE.
 4. CONTRACTOR SHALL REMOVE THE EXISTING CONFLICTING STRIPING.
 5. ALL DIAGONAL LINES SHALL BE 12" SOLID YELLOW AT 45° @ 20'-0" O.C.



TRITON BARRIER

DETAIL 8
NTS

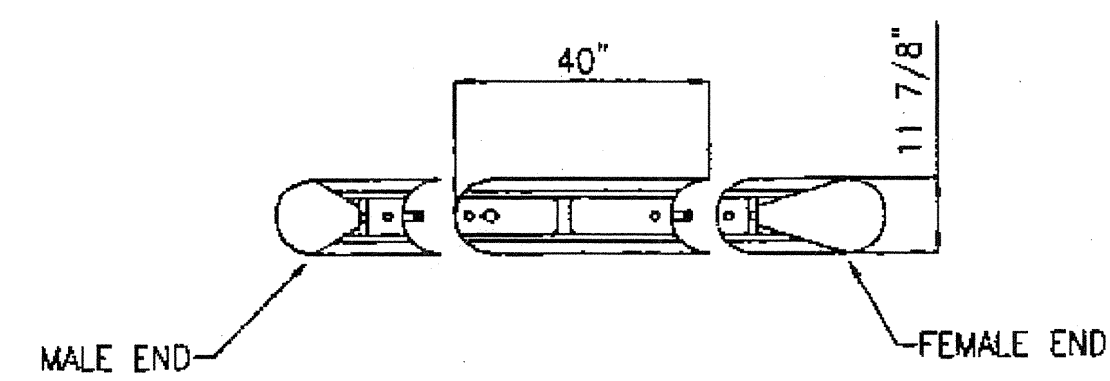


CONC. BARRIER DELINEATOR
(ORANGE POST WITH WHITE REFLECTORS ON THE RIGHT SIDE OF TRAVEL SIDE)

DETAIL 4
NTS

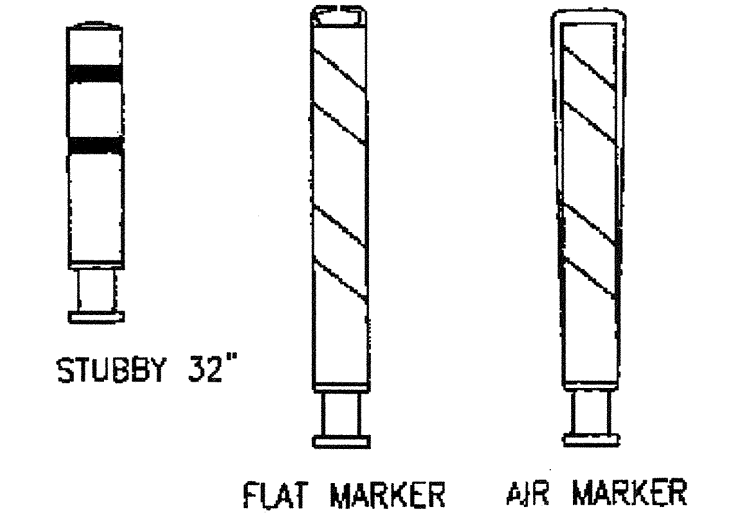
CONCRETE BARRIER
SEPARATING TWO DIRECTIONS OF TRAFFIC

DETAIL 5
NTS



QUICKCURE

DETAIL 8
NTS



QUICKCURE ATTACHMENTS

- LEGEND**
- CHAIN LINK FENCE (8'-0" HIGH MIN.)
 - PROPERTY LINE
 - CONSTRUCTION AREA
 - K-RAIL/WATER FILLED BARRIER/CURB SEPARATOR WITH DELINEATORS
 - 36" PORTABLE DELINEATORS
 - TYPE III BARRICADE
 - RAISED MEDIAN / ISLAND

- BW BROKEN WHITE
- DY DOUBLE YELLOW
- S STOP
- SW SOLID WHITE
- BY BROKEN YELLOW
- SY SINGLE SOLID YELLOW
- Y YIELD

← DIRECTION OF TRAFFIC

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF CHANGES				
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION				

REFERENCES		
INSERT FILE NO'S OF SURVEYS PLANS, ETC., USED		
DESIGNED BY	RJ	5/05
DRAWN BY	FRM	5/05
CHECKED BY	RJ	5/05
APPROVED SECTION ENG	<i>Paul DeLeon</i>	5/13/05

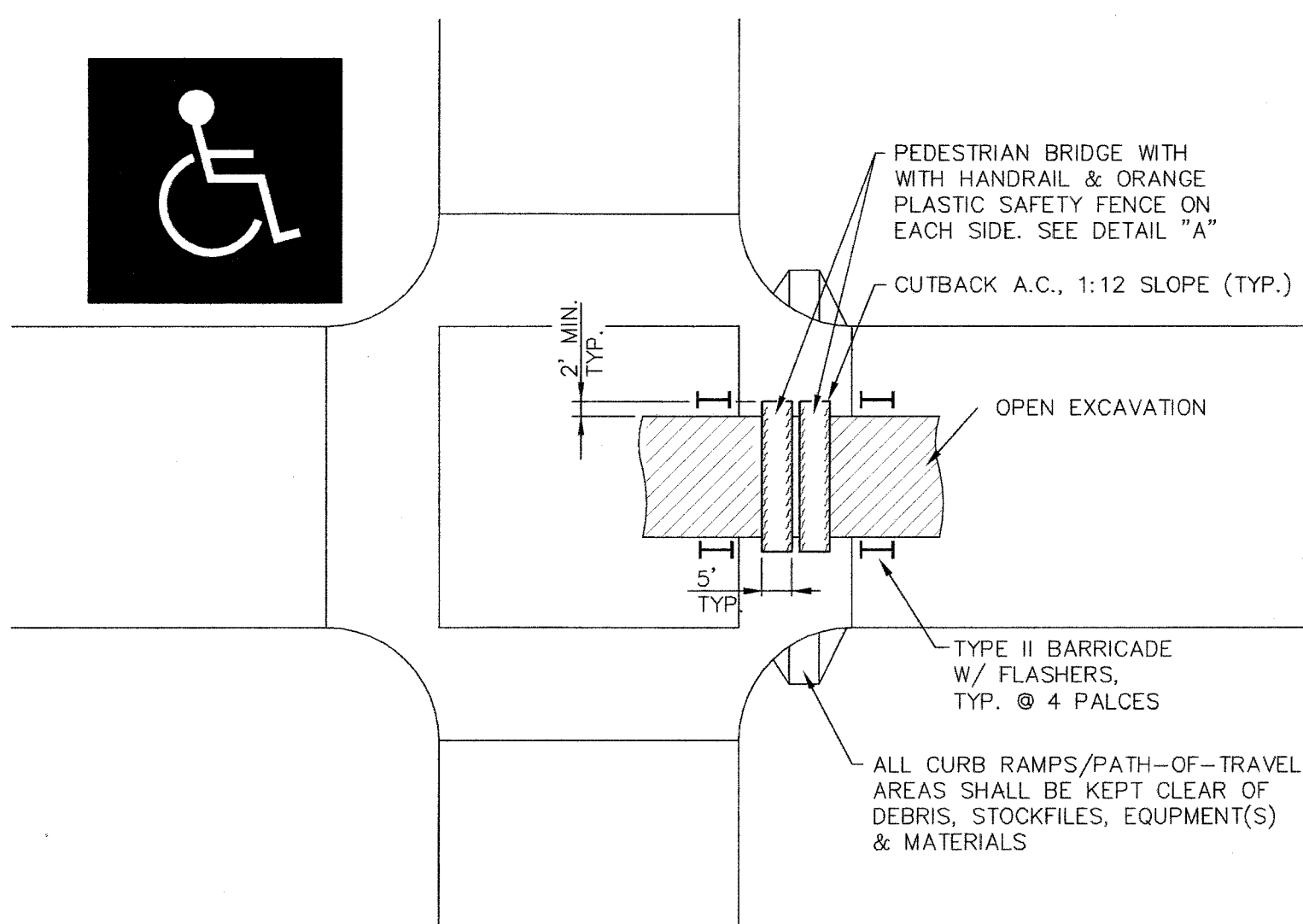
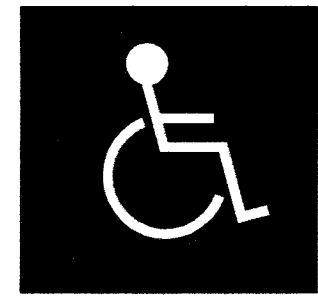
CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PARKING AND TRAFFIC

DETAILS FOR DELINEATORS, CHANNELIZERS AND BARRICADES

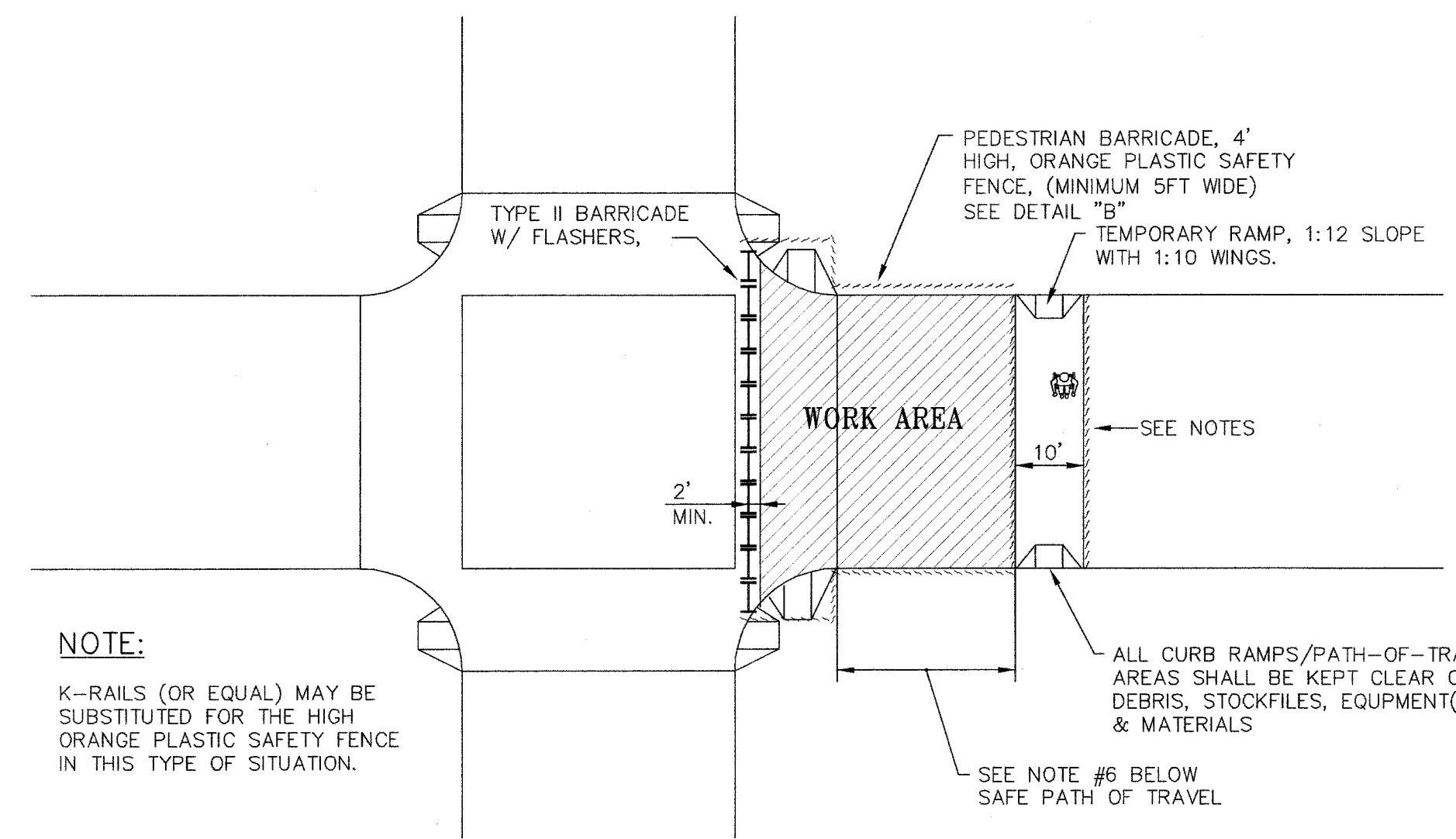
SCALE: N.T.S. SHEET OF SHEETS

APPROVED: *Paul DeLeon* CITY TRAFFIC ENGINEER
DATE: 5/13/05

STR NUMBER: STR-7695
CHANGE NO.

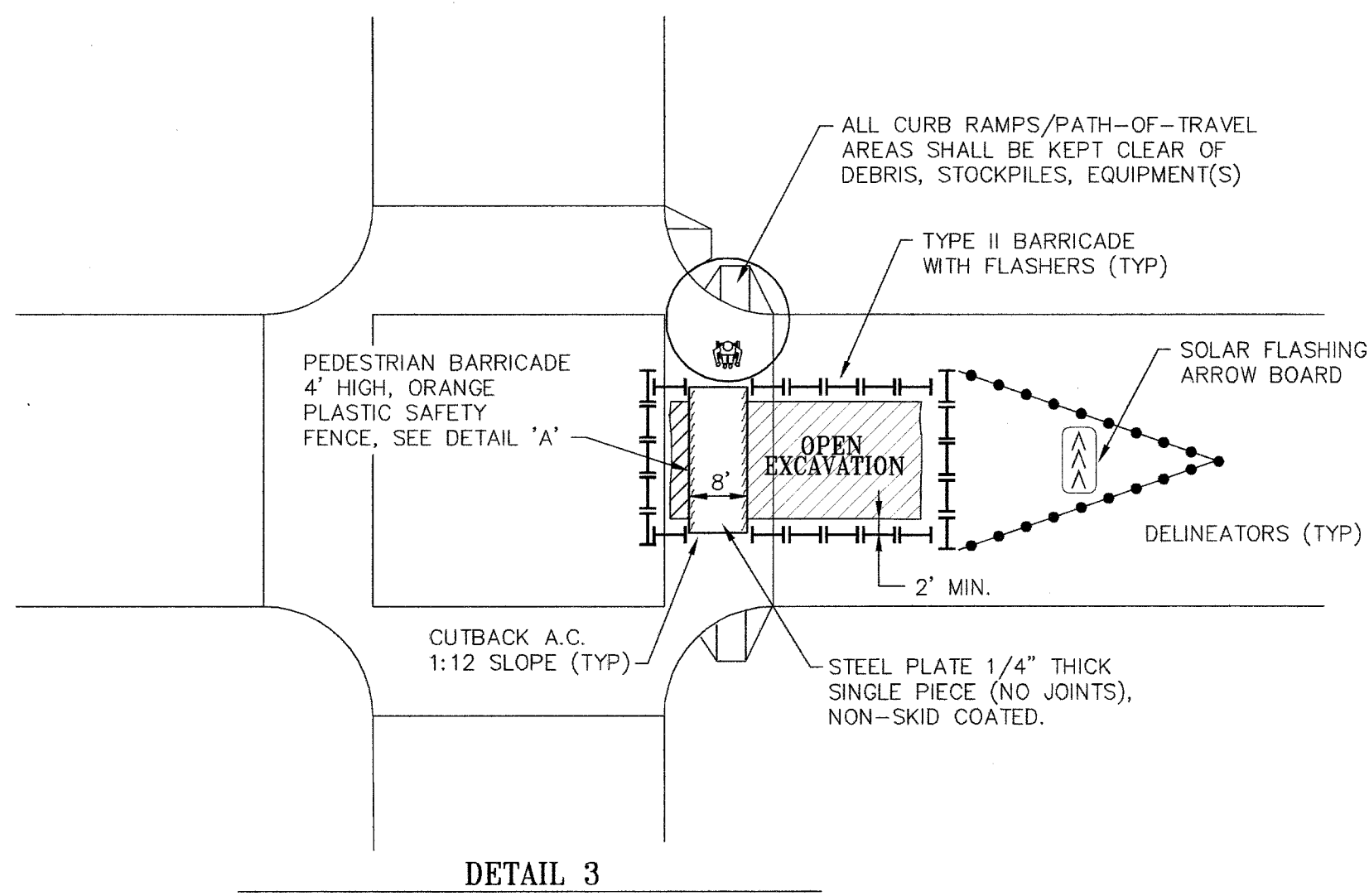


DETAIL 1
CROSSWALK BRIDGE OVER EXCAVATION
N.T.S.

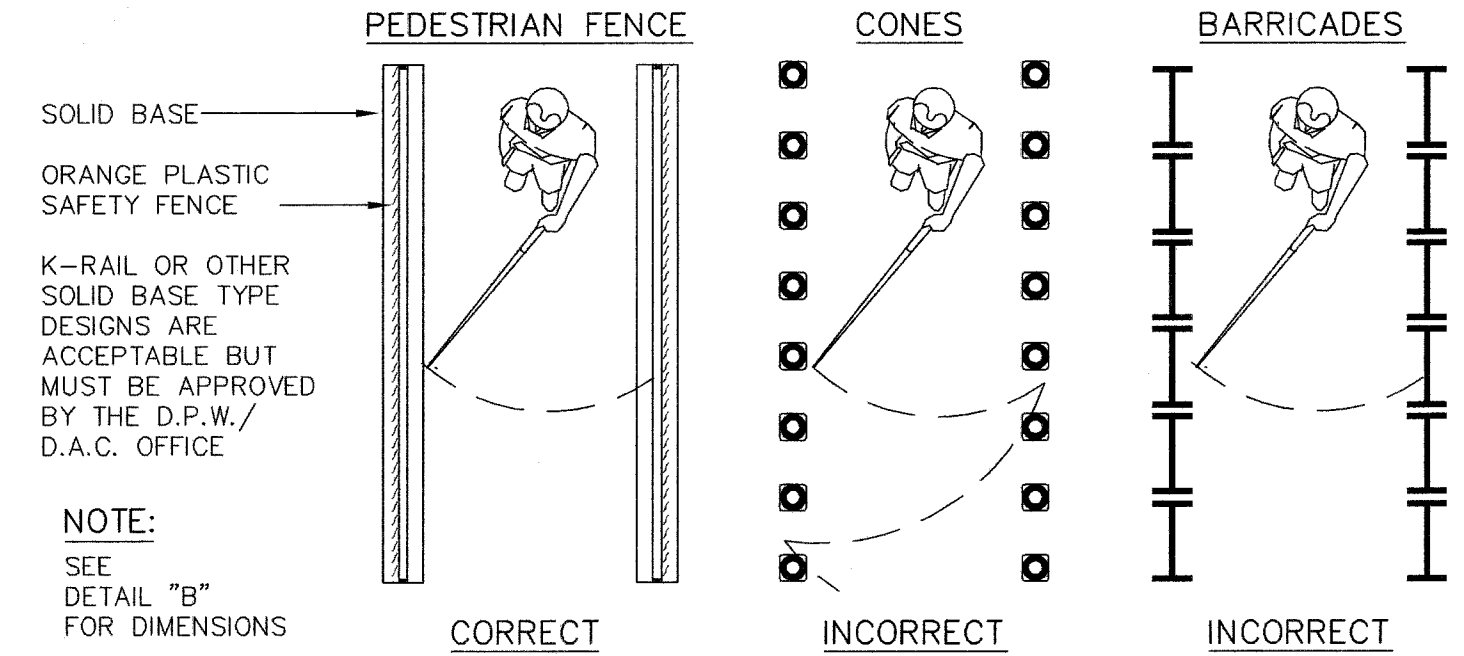


NOTE:
K-RAILS (OR EQUAL) MAY BE SUBSTITUTED FOR THE HIGH ORANGE PLASTIC SAFETY FENCE IN THIS TYPE OF SITUATION.

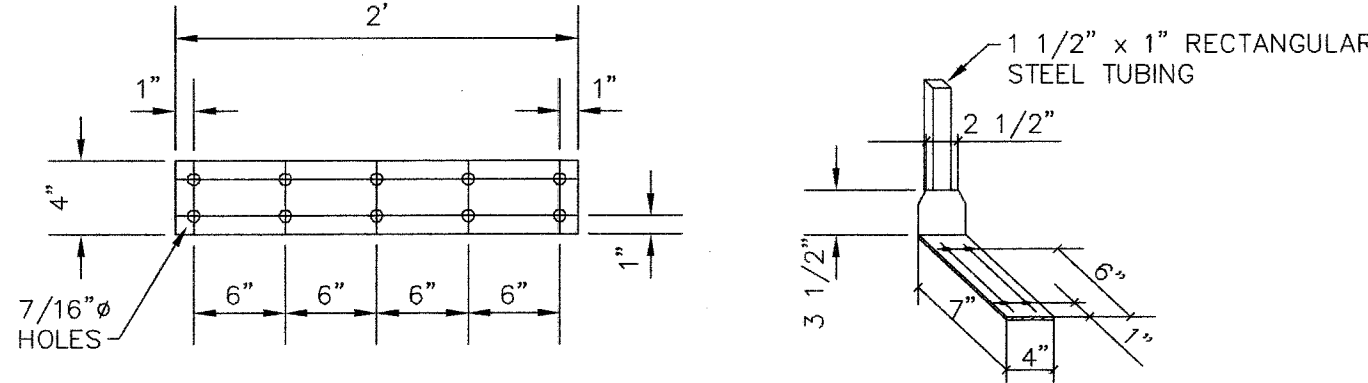
DETAIL 2
CROSSWALK THROUGH WORK ZONE
CROSSWALK CLOSURE AND
SAFE PATH OF TRAVEL ON SIDEWALK
N.T.S.



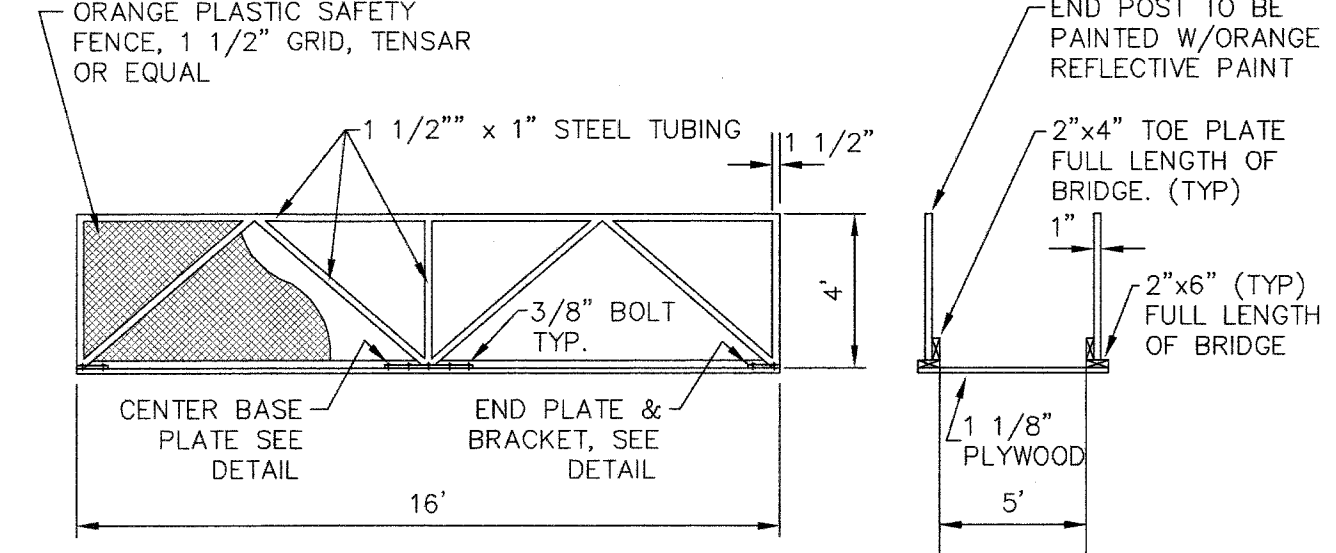
DETAIL 3
CROSSWALK OVER PLATED EXCAVATION
N.T.S.



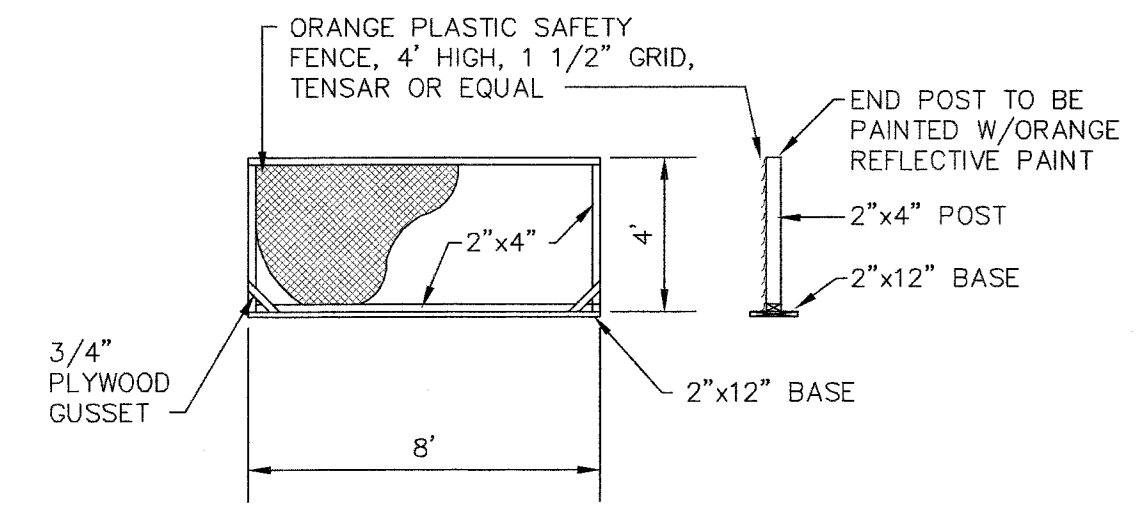
DETAIL 4
N.T.S.



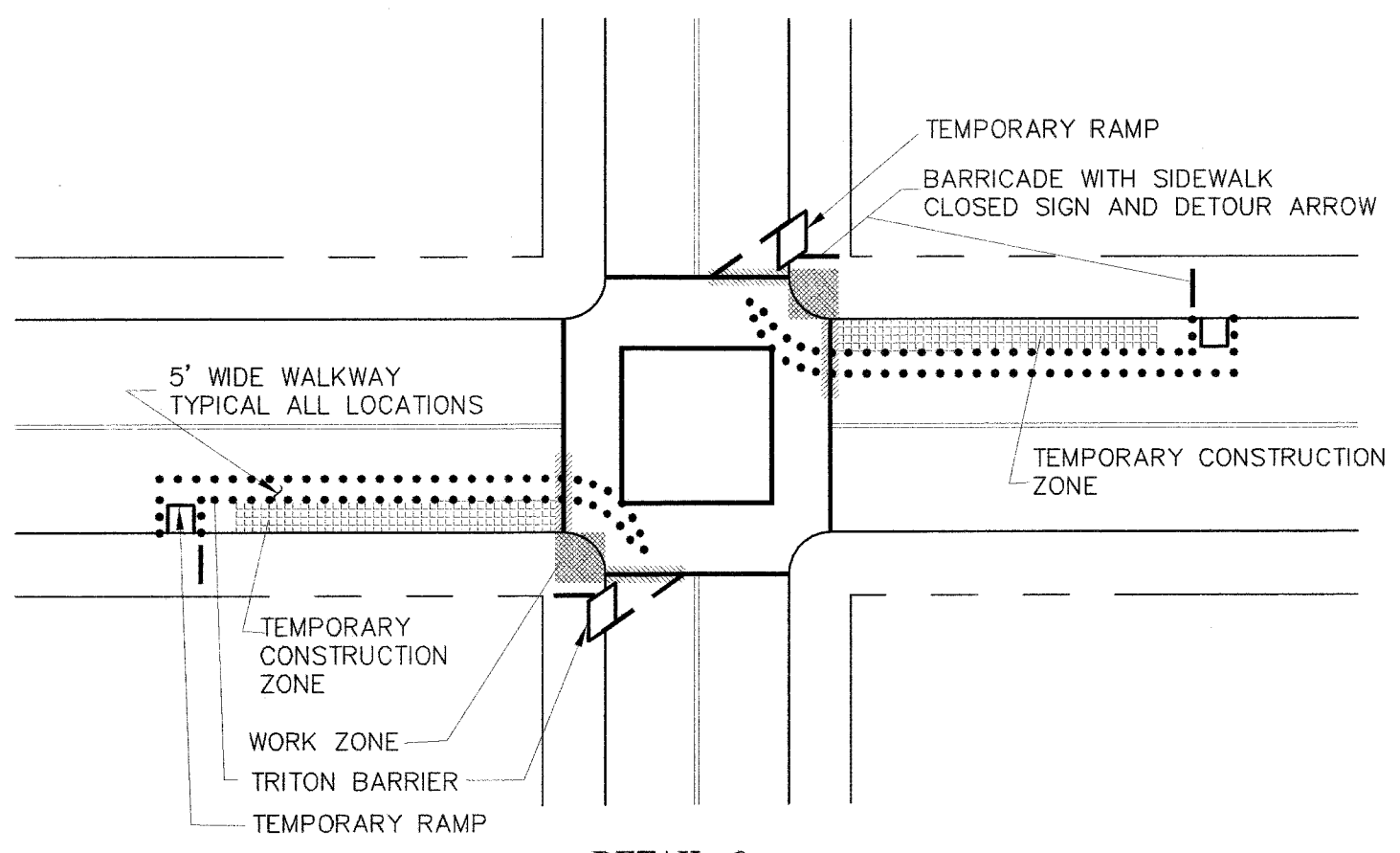
DETAIL 5
N.T.S.



DETAIL 'A'
PEDESTRIAN CROSSWALK BRIDGE
N.T.S.



DETAIL 'B'
PEDESTRIAN BARRICADE-SAFETY FENCE TYPE
N.T.S.



DETAIL 6:
SAFE PATH OF TRAVEL ON STREET
N.T.S.

NOTES:

- All construction activities involving work within the public right-of-way shall comply with the following requirements to allow access for persons with disabilities:
- A safe path-of-travel at least 5' wide shall be maintained at all times. Do not obscure curb ramps or temporary ramps with equipment(s), debris or vehicles. Safe path of travel shall be separated from construction area and traffic area by Triton Barriers.
- All existing crosswalks, including crosswalks within construction zones, shall be kept open at all times, unless prior approval by the Resident Engineer has been received.
- Crosswalks over excavation shall be plated or bridged in conformance with typical layout and details included herein.
- Crosswalks through work zones, and access to such crosswalks shall be delineated with pedestrian barricades - safety fence type as shown in the details or approved pedestrian barricades such as K-rails and Triton Barriers. Cones, and other delineators that do not provide appropriate path of travel information for blind pedestrians using canes, are not to be used as pedestrian barricades at any time.
- Crosswalks which are temporarily closed, shall be barricaded at each end with approved pedestrian barricades and signs.
- Whenever a temporary crosswalk is provided outside the existing crosswalk, such temporary crosswalk shall be clearly defined by signs, striping and pedestrian bridges or plating. The minimum width of the temporary crosswalk shall be ten feet. If the location of the temporary crosswalk is 15 feet or more from the existing crosswalk with pedestrian signal(s), the Contractor shall provide temporary pedestrian signals at these crosswalks. The Contractor shall immediately remove temporary striping, bridges and signals when the temporary crosswalk is no longer needed.
- Temporary asphalt or wood ramps shall be installed when no curb ramp(s) are available for use. This is also a safe path-of-travel for persons with disabilities at all locations where permanent ramps have been temporarily removed during construction and where pedestrians detour into and out of the parking lane of the street. Asphalt ramps shall have a minimum 5' wide platform, shall have a maximum slope of 8.33% with winged slopes of 10% and shall be constructed so as to preclude any gaps between the concrete and asphalt surfaces. Such ramps shall be constructed so that their removal will not damage the existing pavement, curb, and gutter. All surfaces shall be restored to their original condition. Where drainage may be impaired, a 2" diameter schedule 40 PVC pipe shall be installed through the base of the ramp. Wood ramps shall be built up on the curb side (with a suitable thickness of wood support and attached with suitable nails) to provide a smooth transition without gaps larger than 1/4" between the wood ramp and the concrete curb.
- Whenever permanent curb ramps are to be disturbed during construction activities, temporary ramps shall be required. Such temporary ramps shall be removed by the contractor once construction of the permanent curb ramps is completed, leaving the site undamaged.
- Where an access corridor cannot be utilized due to traffic limitations as determined by the Traffic Engineer, 36"x36" signs containing lettering, stating that the sidewalk is closed and directing pedestrians to use the accessible safe sidewalk, must be posted at the corners of each block affected, and the excavation or construction area protected with approved barricades to protect pedestrians including those with disabilities.
- Disabled access corridors necessitated by the closure of the sidewalk area for construction in the sidewalk or when required by adjacent construction shall be a minimum of 5' wide and shall be maintained free from all obstruction or abrupt changes in grade. The minimum vertical clearance from any overhead obstruction shall be 7 feet. Pedestrian traffic shall be protected by a barrier at least 4' in height on the street when the walkway extends into the roadway, or is adjacent to excavations.

NO.	DATE	DESCRIPTION	BY	APP.
10/09		CHANGE S.P.O.T. TO 5FT & FENCE HEIGHT TO 4FT	DY	AH
3/10/06		SAFE PATHWAY TRAVEL	TA	RJ

TABLE OF REVISIONS
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION

REFERENCE INFORMATION & FILE NO. OF SURVEYS



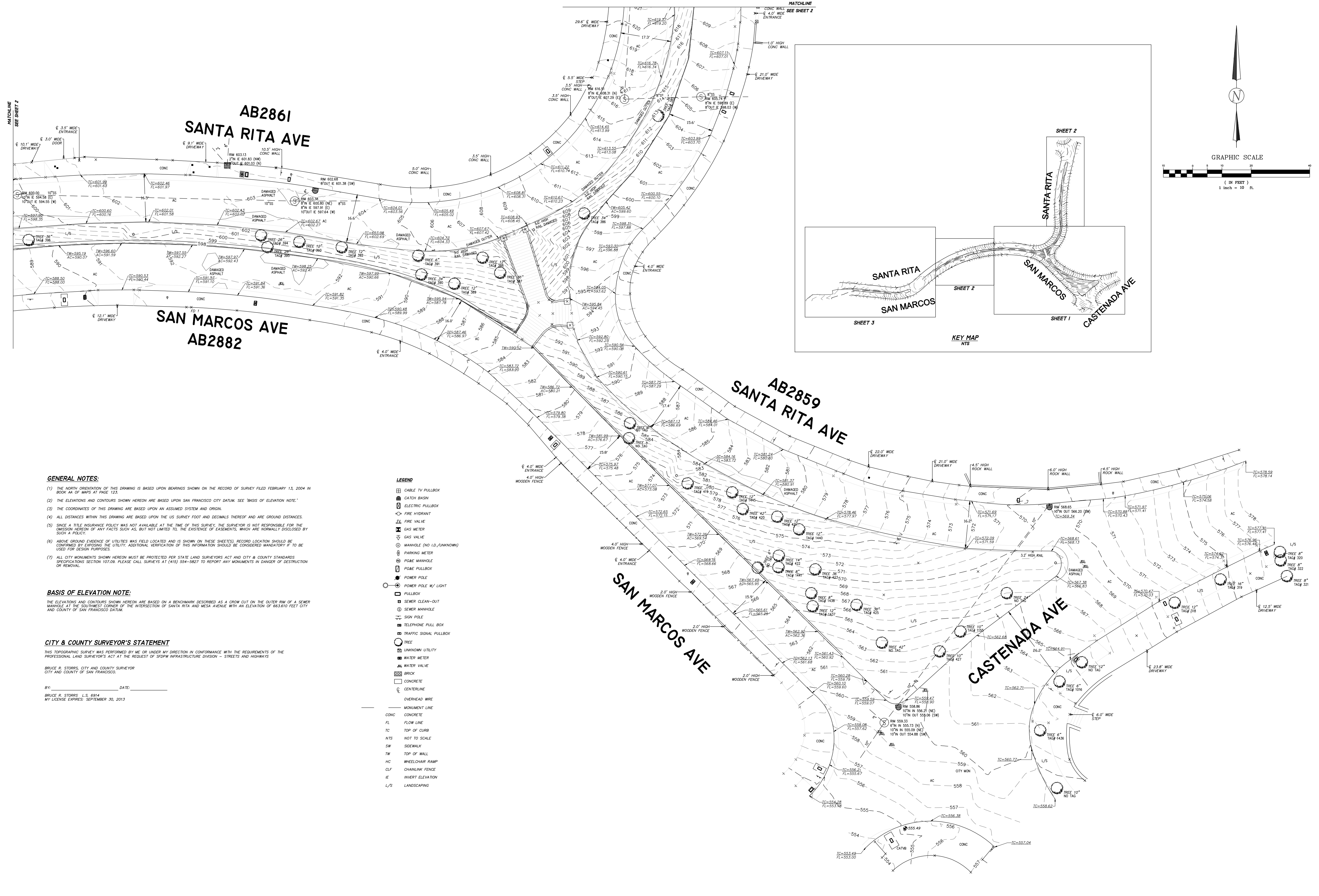
SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY
DIVISION OF PARKING AND TRAFFIC - TRAFFIC ENGINEERING
CITY AND COUNTY OF SAN FRANCISCO

DESIGNED:	DATE:	APPROVED:
R.J.	5/05	<i>Daniel R. [Signature]</i>
DRAWN:	DATE:	SECTION ENGINEER
F.R.M.	5/05	
CHECKED:	DATE:	
R.J.	5/05	<i>Daniel R. [Signature]</i>

SCALE:	NONE
SHEET OF SHEETS:	1 OF 1

STANDARD DRAWING
PEDESTRIAN CROSSWALKS
THROUGH CONSTRUCTION ZONES

CONTRACT NO.	
DRAWING NO.	STR-7696
FILE NO.	
REV. NO.	2



GENERAL NOTES:

- (1) THE NORTH ORIENTATION OF THIS DRAWING IS BASED UPON BEARINGS SHOWN ON THE RECORD OF SURVEY FILED FEBRUARY 13, 2004 IN BOOK 44 OF MAPS AT PAGE 123.
- (2) THE ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED UPON SAN FRANCISCO CITY DATUM. SEE 'BASIS OF ELEVATION NOTE.'
- (3) THE COORDINATES OF THIS DRAWING ARE BASED UPON AN ASSUMED SYSTEM AND ORIGIN.
- (4) ALL DISTANCES WITHIN THIS DRAWING ARE BASED UPON THE US SURVEY FOOT AND DECIMALS THEREOF AND ARE GROUND DISTANCES.
- (5) SINCE A TITLE INSURANCE POLICY WAS NOT AVAILABLE AT THE TIME OF THIS SURVEY, THE SURVEYOR IS NOT RESPONSIBLE FOR THE OMISSION HEREON OF ANY FACTS SUCH AS, BUT NOT LIMITED TO, THE EXISTENCE OF EASEMENTS, WHICH ARE NORMALLY DISCLOSED BY SUCH A POLICY.
- (6) ABOVE GROUND EVIDENCE OF UTILITIES WAS FIELD LOCATED AND IS SHOWN ON THESE SHEETS. RECORD LOCATION SHOULD BE CONFIRMED BY EXPOSING THE UTILITY. ADDITIONAL VERIFICATION OF THIS INFORMATION SHOULD BE CONSIDERED MANDATORY IF TO BE USED FOR DESIGN PURPOSES.
- (7) ALL CITY MONUMENTS SHOWN HEREON MUST BE PROTECTED PER STATE LAND SURVEYORS ACT AND CITY & COUNTY STANDARDS SPECIFICATIONS SECTION 107.09. PLEASE CALL SURVEYS AT (415) 554-5827 TO REPORT ANY MONUMENTS IN DANGER OF DESTRUCTION OR REMOVAL.

BASIS OF ELEVATION NOTE:

THE ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED ON A BENCHMARK DESCRIBED AS A CROW CUT ON THE OUTER RIM OF A SEWER MANHOLE AT THE SOUTHWEST CORNER OF THE INTERSECTION OF SANTA RITA AND MESA AVENUE WITH AN ELEVATION OF 663.610 FEET CITY AND COUNTY OF SAN FRANCISCO DATUM.

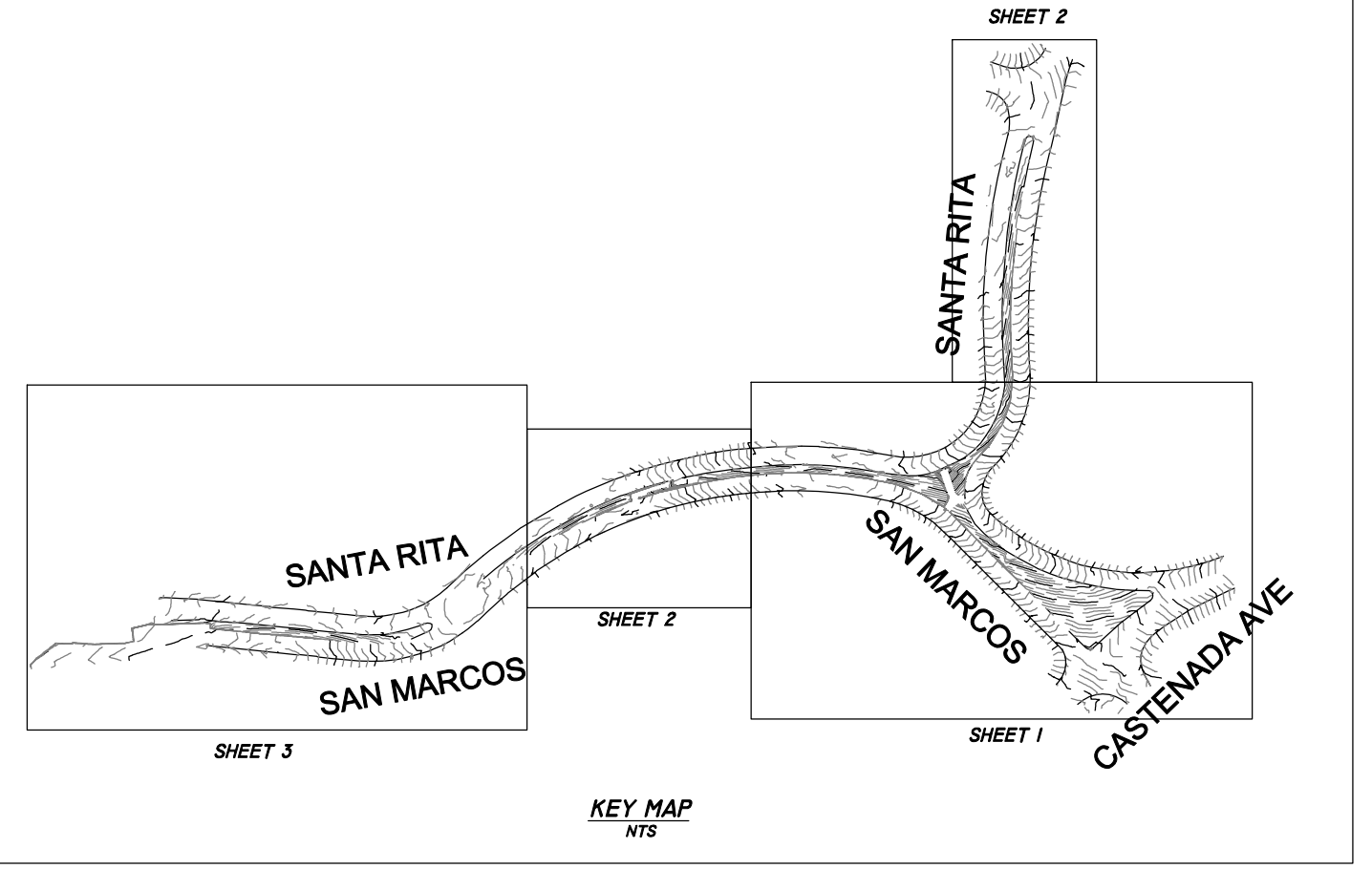
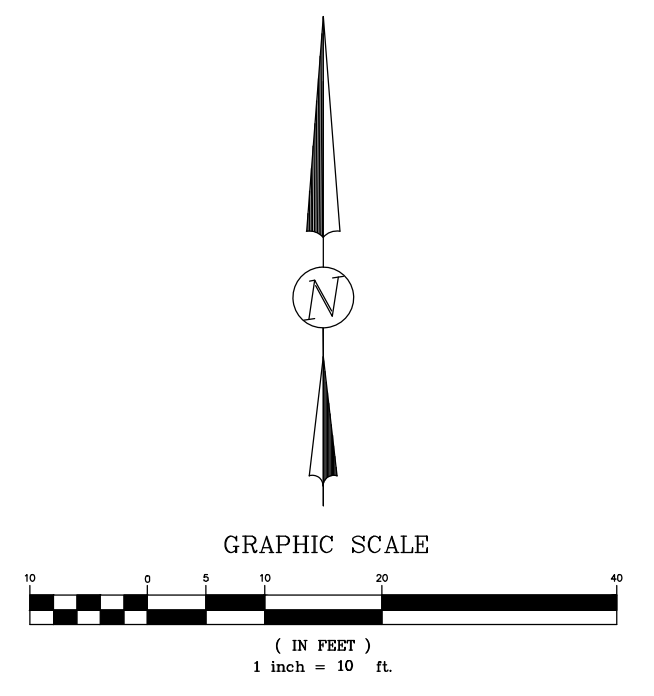
CITY & COUNTY SURVEYOR'S STATEMENT

THIS TOPOGRAPHIC SURVEY WAS PERFORMED BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT AT THE REQUEST OF SFPDW INFRASTRUCTURE DIVISION - STREETS AND HIGHWAYS

BRUCE R. STORRS, CITY AND COUNTY SURVEYOR
CITY AND COUNTY OF SAN FRANCISCO

BY: _____ DATE: _____
BRUCE R. STORRS, L.S. 6914
MY LICENSE EXPIRES: SEPTEMBER 30, 2013

- LEGEND**
- ☐ CABLE TV PULLBOX
 - ☐ CATCH BASIN
 - ⊕ ELECTRIC PULLBOX
 - ⊕ FIRE HYDRANT
 - ⊕ FIRE VALVE
 - ⊕ GAS METER
 - ⊕ GAS VALVE
 - ⊕ MANHOLE (NO I.D./UNKNOWN)
 - ⊕ PARKING METER
 - ⊕ POSE MANHOLE
 - ⊕ POSE PULLBOX
 - ⊕ POWER POLE
 - ⊕ POWER POLE W/ LIGHT
 - ☐ PULLBOX
 - ⊕ SEWER CLEAN-OUT
 - ⊕ SEWER MANHOLE
 - ⊕ SIGN POLE
 - ⊕ TELEPHONE PULL BOX
 - ⊕ TRAFFIC SIGNAL PULLBOX
 - TREE
 - ⊕ UNKNOWN UTILITY
 - ⊕ WATER METER
 - ⊕ WATER VALVE
 - ▨ BRICK
 - ▨ CONCRETE
 - CENTERLINE
 - OVERHEAD WIRE
 - MONUMENT LINE
 - CONC CONCRETE
 - FL FLOW LINE
 - TC TOP OF CURB
 - NTS NOT TO SCALE
 - SW SIDEWALK
 - TW TOP OF WALL
 - HC WHEELCHAIR RAMP
 - CLF CHAINLINK FENCE
 - IE INVERT ELEVATION
 - L/S LANDSCAPING



Δ	BY	DATE	REVISIONS



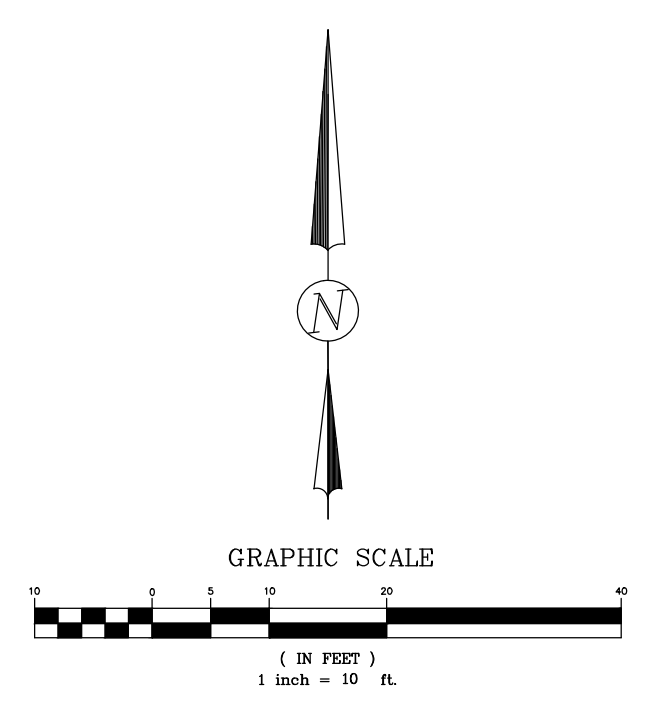
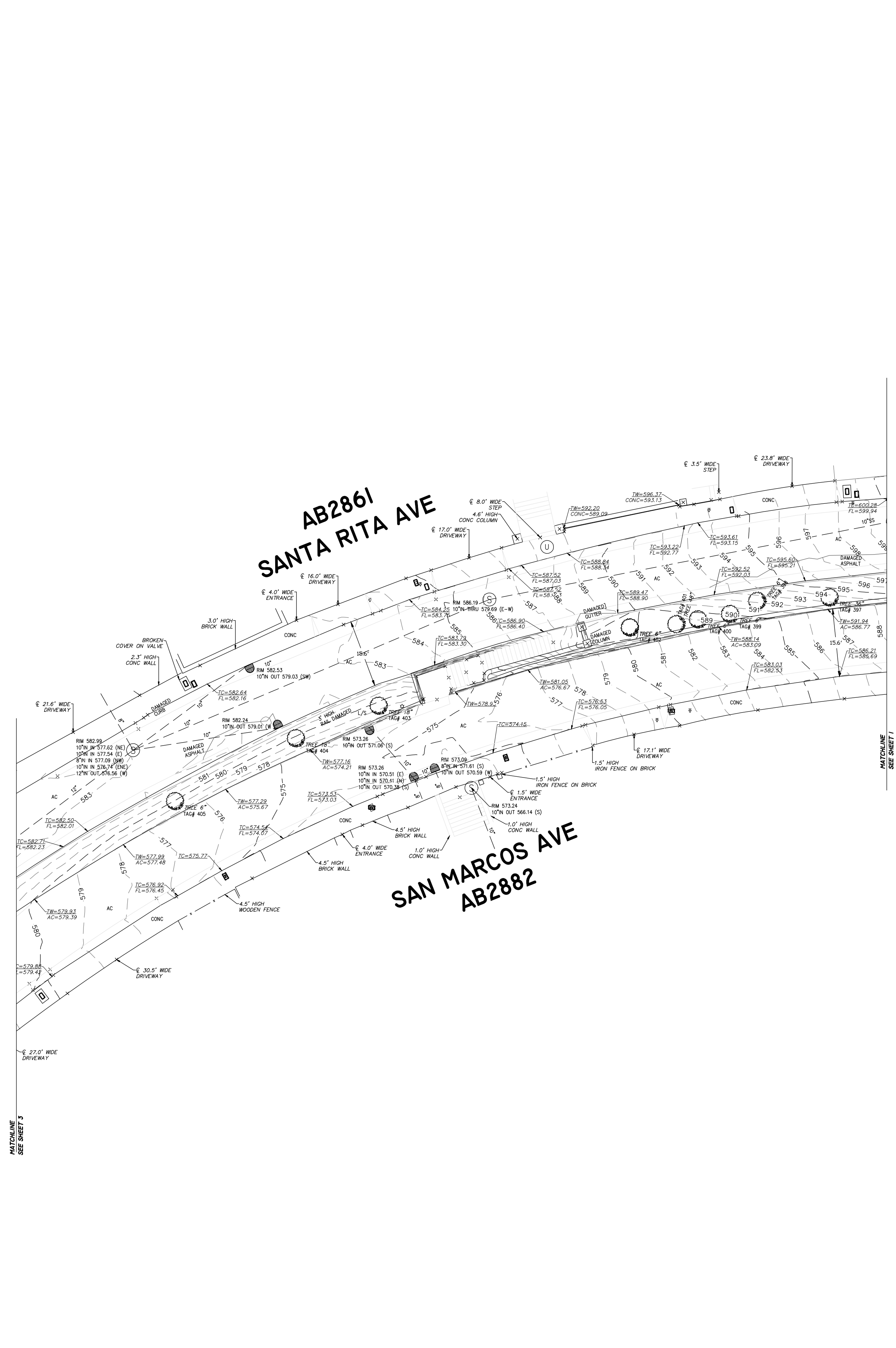
BUREAU OF STREET USE AND MAPPING
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

DRAWN BY: MS
CHECKED BY: AC
DATE: 9/5/2013
PHONE: 415.554.5827
FAX: 415.554.5324

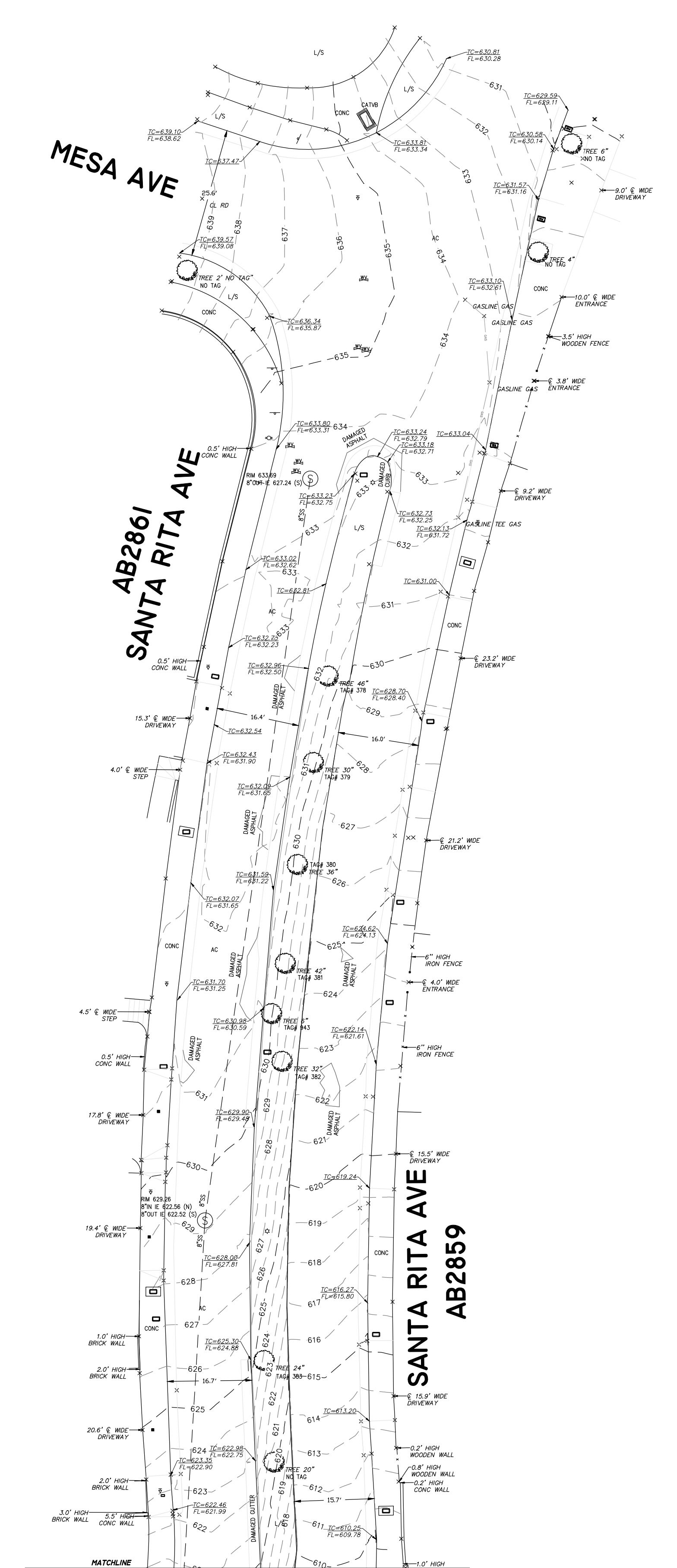
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PHOTODATE: -

**TOPOGRAPHIC SURVEY OF
SAN MARCOS AVE AND SANTA RITA AVE**
FOR:
SFPDW INFRASTRUCTURE DIVISION - STREETS AND HIGHWAYS

TOPDATE: 8/14/13
JOB#: 2013-09
AB: 2859, 2861, 2882
SHEET 1 OF 3



- LEGEND**
- ☐ CABLE TV PULLBOX
 - ☐ CATCH BASIN
 - ☐ ELECTRIC PULLBOX
 - ⊕ FIRE HYDRANT
 - ⊕ FIRE VALVE
 - ⊕ GAS METER
 - ⊕ GAS VALVE
 - ⊕ MANHOLE (NO I.D./UNKNOWN)
 - ⊕ PARKING METER
 - ⊕ POLE MANHOLE
 - ☐ POLE PULLBOX
 - ⊕ POWER POLE
 - ⊕ POWER POLE W/ LIGHT
 - ☐ PULLBOX
 - ☐ SEWER CLEAN-OUT
 - ⊕ SEWER MANHOLE
 - ⊕ SIGN POLE
 - ☐ TELEPHONE PULL BOX
 - ☐ TRAFFIC SIGNAL PULLBOX
 - ⊕ TREE
 - ⊕ UNKNOWN UTILITY
 - ⊕ WATER METER
 - ⊕ WATER VALVE
 - ▨ BRICK
 - ▨ CONCRETE
 - CENTERLINE
 - OVERHEAD WIRE
 - MONUMENT LINE
 - ▨ CONCRETE
 - FLOW LINE
 - TC TOP OF CURB
 - NTS NOT TO SCALE
 - SW SIDEWALK
 - TM TOP OF WALL
 - HC WHEELCHAIR RAMP
 - CLF CHAINLINK FENCE
 - IE INVERT ELEVATION
 - L/S LANDSCAPING



Δ	BY	DATE	REVISIONS



BUREAU OF STREET USE AND MAPPING
 DEPARTMENT OF PUBLIC WORKS
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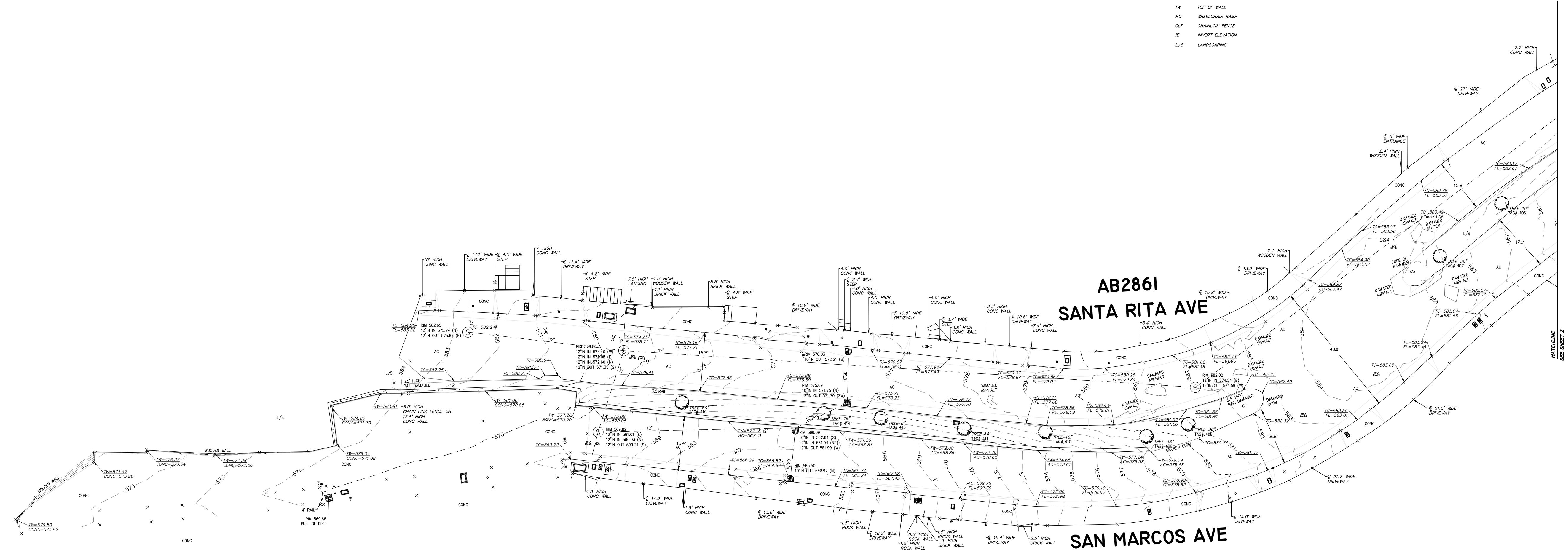
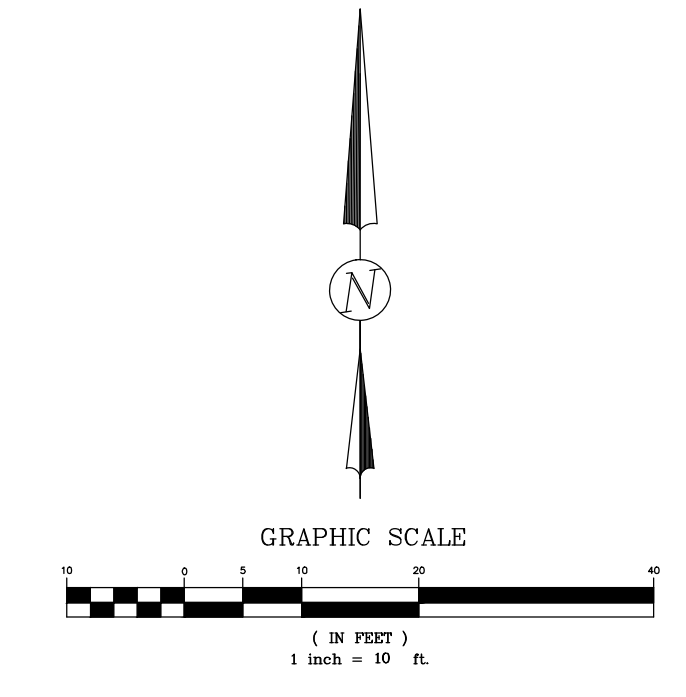
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TOPOGRAPHIC SURVEY OF
 SAN MARCOS AVE AND SANTA RITA AVE
 FOR:
 SFPDW INFRASTRUCTURE DIVISION - STREETS AND HIGHWAYS

TOPDATE: 8/14/13
 JOB#: 2013-09
 AB: 2859, 2861, 2882
 SHEET 2 OF 3

- LEGEND**
- ☐ CABLE TV PULLBOX
 - ☐ CATCH BASIN
 - ⊖ ELECTRIC PULLBOX
 - ⊖ FIRE HYDRANT
 - ⊖ FIRE VALVE
 - ⊖ GAS METER
 - ⊖ GAS VALVE
 - ⊖ MANHOLE (NO ID./UNKNOWN)
 - ⊖ PARKING METER
 - ⊖ POLE MANHOLE
 - ⊖ POLE PULLBOX
 - ⊖ POWER POLE
 - ⊖ POWER POLE W/ LIGHT
 - ☐ PULLBOX
 - ☐ SEWER CLEAN-OUT
 - ⊖ SEWER MANHOLE
 - ☐ SIGN POLE
 - ☐ TELEPHONE PULL BOX
 - ☐ TRAFFIC SIGNAL PULLBOX
 - ⊖ UNKNOWN UTILITY
 - ⊖ WATER METER
 - ⊖ WATER VALVE
 - ⊖ BRICK
 - ⊖ CONCRETE
 - ⊖ CENTERLINE
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TOPOGRAPHIC SURVEY
SAN MARCOS AVE AND SANTA RITA AVE
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 SHEET 3 OF 3