GRADING AND IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.

2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS UNLESS APPROVED BY TRAFFIC CONTROL PERMIT FROM THE DEVELOPMENT SERVICES DEPARTMENT.

3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN DIEGO DOES NOT AUTHORIZE THE PERMIT HOLDER OR OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.

4. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE (800) 422-4133, TWO DAYS BEFORE YOU DIG.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING AND LOCATING ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE WHILE MAINTAINING A 1 FOOT VERTICAL CLEARANCE.

6. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT ISSUING AUTHORITY.

7. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE RESIDENT ENGINEER.

8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.

9. PRIOR TO SITE DISTURBANCE, CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRECONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO, CONSTRUCTION MANAGEMENT AND FIELD SERVICES DIVISION (858) 627-3200.

10. CONTRACTOR SHALL ONLY PERFORM SITE SURVEY AND UTILITY MARK OUT SERVICES PRIOR TO THE PRECONSTRUCTION MEETING.

11. CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.

12. CONTRACTOR SHALL HAVE EMERGENCY MATERIAL AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHERE FLOW MAY GENERATE EROSION AND SEDIMENT POLLUTION.

13. MANHOLES AND PULL BOX COVERS SHALL BE LABELED WITH NAME OF COMPANY.

14. "AS-BUILT" DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN DIEGO.

15. CONTRACTOR SHALL PROVIDE RED-LINE DRAWINGS IN ACCORDANCE WITH 2-5.4 OF THE WHITEBOOK, "RED-LINES AND RECORD DOCUMENTS."

16. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 1 FOOT VERTICAL SEPARATION TO ALL UTILITIES UNLESS OTHERWISE SPECIFIED ON THE PLANS.

17. CONTRACTOR SHALL REMOVE AND REPLACE ALL UTILITY BOXES SERVING AS HANDHOLES THAT ARE NOT IN "AS-NEW" CONDITION IN PROPOSED SIDEWALK. DAMAGED BOXES, OR THOSE THAT ARE NOT IN COMPLIANCE WITH CURRENT CODE, SHALL BE REMOVED AND REPLACED WITH NEW BOXES, INCLUDING WATER, SEWER, TRAFFIC SIGNALS, STREET LIGHTS, DRY UTILITIES-SDG&E, COX, ETC. ALL NEW METAL LIDS SHALL BE SLIP RESISTANT AND INSTALLED FLUSH WITH PROPOSED SIDEWALK GRADE. IF A SLIP RESISTANT METAL LID IS NOT COMMERCIALLY AVAILABLE FOR THAT USE, NEW BOXES AND LIDS SHALL BE INSTALLED.

18. CONTRACTOR SHALL INSTALL CITY APPROVED TEMPORARY VIDEO OR RADAR DETECTION WHEN EXISTING TRAFFIC SIGNAL DETECTION SYSTEMS ARE DAMAGED, DISABLED, OR BECOME INEFFECTIVE DUE TO CONSTRUCTION ACTIVITIES FOR A PERIOD OF FIVE (5) OR MORE DAYS, SATISFACTORY TO THE CITY ENGINEER. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY TRAFFIC SIGNAL DETECTION EQUIPMENT AND RESTORE/INSTALL A CITY APPROVED PERMANENT VEHICLE DETECTION SYSTEM UPON COMPLETION OF CONSTRUCTION, SATISFACTORY TO THE CITY ENGINEER.

19. PRIOR TO CONSTRUCTION, SURVEY MONUMENTS (HORIZONTAL AND VERTICAL) THAT ARE LOCATED IN THE CONSTRUCTION AREA SHALL BE TIED-OUT AND REFERENCED BY A LAND SURVEYOR.

20. UPON COMPLETION OF CONSTRUCTION, ALL DESTROYED SURVEY MONUMENTS ARE REQUIRED TO BE REPLACED, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE PREPARED AND FILED WITH THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYOR ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA.

21. THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.

22. AN AS-GRADED GEOTECHNICAL REPORT AND SET OF THE REDLINE "AS-BUILT" GRADING PLANS SHALL BE SUBMITTED TO AREA 3 ON THE THIRD FLOOR OF DEVELOPMENT SERVICES WITHIN 30 CALENDAR DAYS OF THE COMPLETION OF GRADING. AN ADDITIONAL SET SHALL BE PROVIDED TO THE RESIDENT ENGINEER OF THE CONSTRUCTION MANAGEMENT & FIELD SERVICES DIVISION AT 9573 CHESAPEAKE DRIVE, SAN DIEGO, CA 92123.

GRADING QUANTITIES

IMPORT/EXPORT.....1.82 ACRES	MAX. CUT DEPTH: 17 FT
GRADED AREA.....4.1 ACRES	MAX CUT SLOPE RATIO (2:1MAX): 2:1
CUT QUANTITIES.....8,500 CYD	MAX. FILL DEPTH 5 FT
FILL QUANTITIES.....70 CYD	MAX FILL SLOPE RATIO (2:1MAX): 2:1

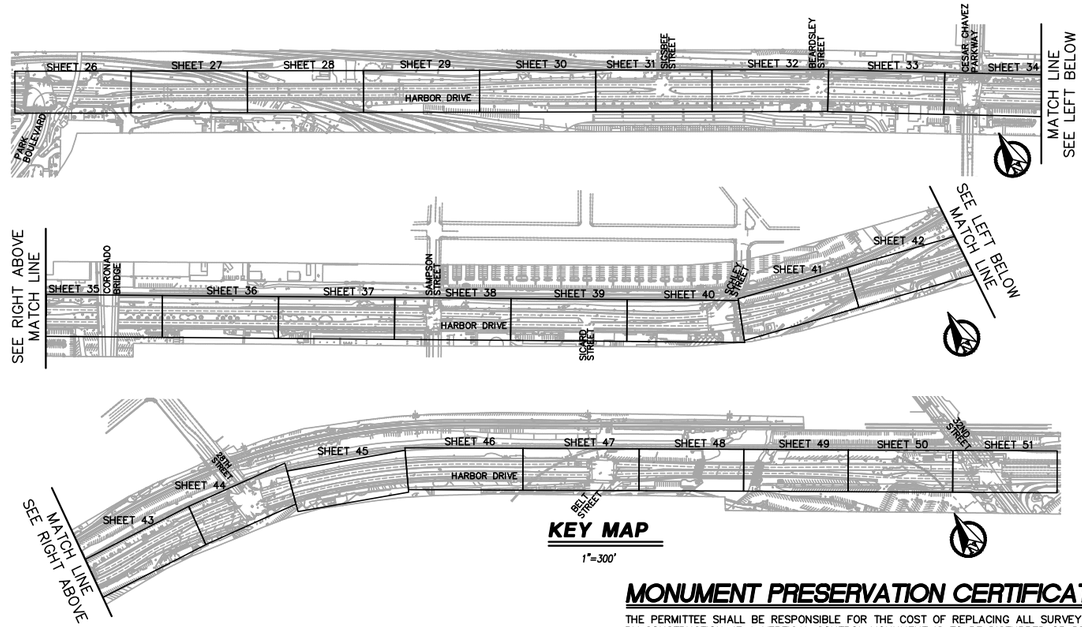
THIS PROJECT PROPOSES TO EXPORT 8,500 CUBIC YARDS OF MATERIAL FROM THIS SITE. ALL EXPORT MATERIAL SHALL BE DISCHARGED TO A LEGAL DISPOSAL SITE. THE APPROVAL OF THIS PROJECT DOES NOT ALLOW PROCESSING AND SALE OF THE MATERIAL. ALL SUCH ACTIVITIES REQUIRE A SEPARATE CONDITIONAL USE PERMIT.

ASSESSORS PARCEL NUMBER

AS STATED ON RECORDED DOCUMENT

EXISTING LEGAL DESCRIPTION

AS STATED ON RECORDED DOCUMENT.



KEY MAP

1"=300'

CONSTRUCTION STORM WATER PROTECTION NOTES

1. TOTAL SITE DISTURBANCE AREA (ACRES): 4.1 ACRES

HYDROLOGIC UNIT / WATERSHED HYDROLOGIC: PUEBLO SAN DIEGO

HYDRAULIC SUB AREA NAME AND NUMBER: CHOLLAS CREEK (908.22)

2. THE PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF THE

☐ WPCP

THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NUMBER R9-2013-0001 AND SUBSEQUENT AMENDMENTS.

☒ SWPPP

THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NUMBER R9-2013-0001 AND CONSTRUCTION GENERAL PERMIT ORDER NUMBER 2009-009-DWQ AS AMENDED BY ORDER 2010-0014 DWQ AND 2012-0006-DWQ

TRADITIONAL: RISK LEVEL 1 ☒ 2 ☐ 3 ☐
LUP RISK LEVEL 1 ☐ 2 ☐ 3 ☐

WDID NO: _____

3. CONSTRUCTION SITE PRIORITY

☐ ASBS ☐ HIGH ☒ MEDIUM ☐ LOW

REFERENCE DRAWINGS

SIGSBEE ST TRUNK SEWER	997-D
INTERCEPTING SEWER AT CHOLLAS CREEK	1018-D
INTERCEPTING SEWER AT CHOLLAS CREEK	1025-D
6-INCH DIAMETER FUEL OIL LINE	16686-D
HARBOR DRIVE TRUNK SEWER	18366-D
10-INCH PVC SEWER MAIN IN HARBOR DRIVE	26269-D
CONVENTION CENTER EXPANSION PROJECT	27750-D
WATER GROUP 525D (PORT DISTRICT DEVELOPMENT)	29102-D
EAST VILLAGE REDEVELOPMENT AND BALLPARK INFRASTRUCTURE	30321-D
SEWER GROUP 623B	30698-D
HARBOR DRIVE TRUNK SEWER AS-BUILT PLANS	31823-D
TENTH AVENUE PORT ACCESS IMPROVEMENTS	37336-D

MONUMENT PRESERVATION CERTIFICATION

THE PERMITTEE SHALL BE RESPONSIBLE FOR THE COST OF REPLACING ALL SURVEY MONUMENTS DESTROYED BY CONSTRUCTION. IF A VERTICAL CONTROL MONUMENT IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION.

PRIOR TO PERMIT ISSUANCE, THE PEMITTEE SHALL RETAIN THE SERVICE OF A PROFESSIONAL LAND SURVEYOR OR CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING WILL BE RESPONSIBLE FOR MONUMENT PRESERVATION AND SHALL PROVIDE A CORNER RECORD OR RECORD OF SURVEY TO THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, IF APPLICABLE. (SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA)

I HAVE INSPECTED THE SITE AND DETERMINED THAT:

☐ NO SURVEY MONUMENTS WERE FOUND WITHIN THE LIMITS OF WORK
☐ SURVEY MONUMENTS EXISTING IN OR NEAR LIMITS OF WORK WILL BE PROTECTED IN PLACE
☐ SURVEY MONUMENTS HAVE BEEN TIED OUT AND A FINAL PARCEL MAP WILL BE FILED (NO CORNER RECORD OR RECORD OF SURVEY WILL BE REQUIRED)
☐ OTHER AGENCY SURVEY MONUMENT (CORNER RECORD OR RECORD OF SURVEY MAY NOT BE REQUIRED). AGENCY HAS BEEN NOTIFIED OF POSSIBLE MONUMENT DESTRUCTION AND A LETTER PROVIDED TO CITY
☒ A PRE-CONSTRUCTION CORNER CORNER RECORD (OR RECORD OF SURVEY) FOR SURVEY MONUMENTS FOUND WITHIN THE LIMITS OF WORK HAS BEEN FILED.

CORNER RECORD #_____ OR RECORD OF SURVEY #_____

JOEL D. RIIPINEN P.L.S. 7942 EXP. 12-31-19 DATE

POST CONSTRUCTION CORNER RECORD (AS-BUILT ITEM)

POST CONSTRUCTION CORNER RECORD FOR SURVEY MONUMENTS DESTROYED DURING CONSTRUCTION AND REPLACED AFTER CONSTRUCTION.

CORNER RECORD #_____ OR RECORD OF SURVEY #_____

MICKEY AGUIRRE R.C.E. 27648 EXP. 3-31-20 DATE

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

QUALITY INFRASTRUCTURE CORPORATION
7777 ALVARADO ROAD, SUITE 606
LA MESA, CA 91942
(619) 741-9400
ARIVERA@QUALITYINFRASTRUCTURE.COM

ALEC E. RIVERA R.C.E. NO. 87936 EXP. 12-31-19 DATE

811 Know what's below. Call before you dig.

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OWNER/APPLICANT

SAN DIEGO ASSOCIATION OF GOVERNMENTS (SANDAG)
401 B STREET, SUITE 800
SAN DIEGO, CA 92101
(619) 557-4500

TOPOGRAPHY SOURCE

RBF CONSULTING
AERIAL TOPOGRAPHIC SURVEY
AUGUST 1, 2014

WORK TO BE DONE

THE PUBLIC IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE CONSTRUCTED ACCORDING TO THE FOLLOWING STANDARD SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
PWPI010119-01	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2018 EDITION
PWPI010119-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2018 EDITION
PWPI010119-04	CITYWIDE COMPUTER AIDED DESIGN AND DRAFTING (CADD) STANDARDS, 2018 EDITION
PWPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PWPI092816-05	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECIFICATIONS, 2013 EDITION

STANDARD DRAWINGS:

DOCUMENT NO.	DESCRIPTION
PWPI010119-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2018 EDITION
PWPI030119-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S CUSTOMARY STANDARD PLANS, 2018 EDITION

SITE ADDRESS

HARBOR DRIVE BETWEEN PARK BOULEVARD AND 32ND STREET

BASIS OF COORDINATES

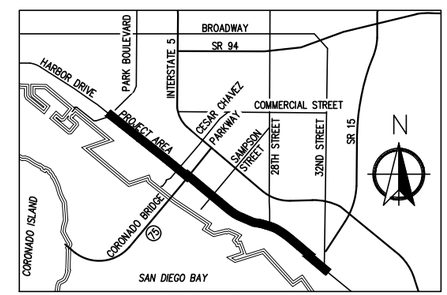
THE BASIS OF COORDINATES FOR THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983 (NAD 83) CALIFORNIA STATE PLANE COORDINATE SYSTEM OF 1983 (CCS83) ZONE 6 (NSR 2007, CSRS EPOCH 2011) BASED LOCALLY UPON THE FOLLOWING (CORS) CONTINUOUS OPERATING STATIONS COMPUTED BY SOPAC/CSRC:

STATION	NORTHING	EASTING
P475	1823702.706	6255782.191
P472	1904390.029	6299297.483

BENCHMARK

ELEVATIONS SHOWN HEREON ARE IN TERMS OF THE NORTH GEODETIC VERTICAL DATUM OF 1929 (NGVD29) BASED LOCALLY UPON THE FOLLOWING CITY OF SAN DIEGO BENCHMARK.

BENCHMARK	ELEVATION
NW BP HARBOR DR & SIGSBEE ST	13.775'



VICINITY MAP

NO SCALE

PERMITTEE

SAN DIEGO ASSOCIATION OF GOVERNMENTS (SANDAG)
401 B STREET, SUITE 800
SAN DIEGO, CA, 92101
(619) 557-4500

ENGINEERING PERMIT NO:_____

DISCRETIONARY PERMIT NO:_____

OWNER

CITY OF SAN DIEGO
600 B STREET, SUITE 800
SAN DIEGO, CA, 92101
(619) 533-3195

PUBLIC CONTRACT

TITLE SHEET FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 1 OF 187 SHEETS

PROJECT NO._____

V.T.M._____

FOR CITY ENGINEER _____ DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR_____ DATE STARTED_____
INSPECTOR_____ DATE COMPLETED_____

41370- 1 -D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY	A. RIVERA	DATE 5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN

CONTRACT NO. –

DRAWING NO. –

SHEET NO.

5/6/2019 12:10:23 PM

NOT FOR CONSTRUCTION – MAY 6, 2019

LEGEND

PROPOSED IMPROVEMENTS

IMPROVEMENT	STANDARD DWGS.	SYMBOL
MINOR CONCRETE	SDG-109, SDG-112, SDG-155, SDG-156, SDG-163, G-10	
AC OR PCC PAVING	SDG-113, G-18 (SEE PAVING PLANS)	
STAMPED CONCRETE	SEE SPECIAL PROVISIONS	
MODIFIED CURB RAMP	SDG-133 OR SDG-134 OR SDG-137 (SEE CONSTRUCTION DETAILS)	
STRAIGHT PASSAGEWAY	SDG-139	
DETECTABLE WARNING TILES	SDG-130	
CURB AND GUTTER	SDG-151, SDG-154	
CURB, TYPE B-1	SDG-154	
CURB INLET, TYPE B-1	SDD-116	
CURB INLET, TYPE B-2 (MODIFIED)	SDD-116	
CURB INLET, TYPE A (MODIFIED)	SDD-115	
STORM DRAIN CLEANOUT	D-9, TYPE A	
CATCH BASIN	D-29, TYPE I	
FILTERRA UNIT	SEE DRAINAGE AND GRADING SHEETS	
STORM DRAIN PIPE	SDG-151, TYPE H	
CRASH CUSHION	SEE SPECIAL PROVISIONS	
FENCE	SDM-112	
RETAINING WALL	SEE RETAINING WALL SHEETS	
PROPOSED RIGHT OF WAY	--	
TEMPORARY CONSTRUCTION EASEMEMT	--	
SAWCUT	--	
SIGN	--	
STREET LIGHT	SEE STREET LIGHTING SHEETS	
WATER METER	SDW-134	M
CONNECT 1" SERVICE LINE TO EXIST WATER MAIN	SEE WATER NOTES, SHEET 3	

EXISTING IMPROVEMENTS

ITEM	SYMBOL
EXIST VALVE	
EXIST METER	
EXIST FIRE HYDRANT	FH
EXIST MANHOLE	MH
EXIST TRAFFIC SIGNAL	
EXIST STREET LIGHT	
EXIST GAS MAIN	G
EXIST UNDERGROUND ELECTRIC	E
EXIST OVERHEAD ELECTRIC	OH-E OH-E
EXIST ELECTRIC TRANSMISSION TOWER	
EXIST POWER POLE	
EXIST TELEPHONE	T
EXIST FUEL LINE	F F
EXIST SEWER MAIN	S
EXIST WATER MAIN	W
EXIST STORM DRAIN	
EXIST RAILROAD, TROLLEY TRACKS	
EXIST CROSSING ARM	
EXIST SIGN	
EXIST CURB RAMP	
EXIST CURB AND GUTTER	
EXIST TREE	

ABBREVIATIONS

AC	ASPHALT CONCRETE
APN	ASSESSORS PARCEL NUMBER
AT&SF	ATCHISON, TOPEKA AND SANTA FE RAILWAY
AVE	AVENUE
BB	BEGIN BRIDGE
BC	BEGIN CURVE
BCR	BEGIN CURB RETURN
BLVD	BOULEVARD
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY
C&M	CONSTRUCTION AND MAINTENANCE
CFS	CUBIC FEET PER SECOND
CIP	CAST IN PLACE
CL	CONTROL LINE
CMPA	CORRUGATED METAL PIPE ARCH
CO	COMPANY
CONC	CONCRETE
CP	CORROSION PROTECTION
CSP, CTSP	CALTRANS STANDARD PLANS
DC	DIRECT CURRENT
DIA	DIAMETER
DR	DRIVE
E	EASTING
EB	END OF BRIDGE
EC	END CURVE
ECR	END CURB RETURN
ELEC	ELECTRIC
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
ETW	EDGE OF TRAVELED WAY
ELEV	ELEVATION
EXIST	EXISTING
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FT	FOOT
FTG	FOOTING
GB	GRADE BREAK
HGL	HYDRAULIC GRADE LINE
HP	HIGH PRESSURE
IE	INVERT ELEVATION
KV	KILOVOLT
L	LENGTH
LB	POUND
LOL	LAYOUT LINE
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MOD	MODIFIED
MTS	METROPOLITAN TRANSIT SYSTEM
N	NORTHING
NASSCO	NATIONAL STEEL AND SHIP BUILDING CO.
NB	NORTHBOUND
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
OG	ORIGINAL GRADE
PB	PULLBOX
PCC	POINT OF COMPOUND CURVE
PCC	PORTLAND CEMENT CONCRETE
PI	POINT OF INTERSECTION
PKWY	PARKWAY
PL, P/L	PROPERTY LINE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVE
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
Q	FLOW RATE
R	RADIUS
R/W	RIGHT-OF-WAY
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RR	RAILROAD
RRFB	RECTANGULAR RAPID FLASHING BEACON
RSP	CALTRANS REVISED STANDARD PLANS
RT	RIGHT
S	SECONDS
S	SLOPE
SB	SOUTHBOUND
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
SD	SAN DIEGO
SDMH	STORM DRAIN MANHOLE
SDTI	SAN DIEGO TROLLEY INC.
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SWR	SEWER
TAMT	TENTH AVENUE MARINE TERMINAL
TB	TOP OF BOX
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEL	TELEPHONE
TW	TOP OF WALL
TYP	TYPICAL
UNK	UNKNOWN
US	UNITED STATES
V	VOLTS
VAR	VARIES
VPI	VERTICAL POINT OF INTERSECTION
WM	WATER METER
WV	WATER VALVE
WTR	WATER

GRADING NOTES

1. GRADING AS SHOWN ON THESE PLANS SHALL BE IN CONFORMANCE WITH CURRENT STANDARD SPECIFICATIONS AND CHAPTER 14, ARTICLE 2, DIVISION 1, OF THE SAN DIEGO MUNICIPAL CODE.

2. PLANT AND IRRIGATE ALL CUT AND FILL SLOPES AS REQUIRED BY ARTICLE 2, DIVISION 4, SECTION 142.0411 OF THE SAN DIEGO LAND DEVELOPMENT CODE AND ACCORDING TO SECTION IV OF THE LAND DEVELOPMENT MANUAL LANDSCAPE STANDARDS.

3. GRADED, DISTURBED, OR ERODED AREAS THAT WILL NOT BE PERMANENTLY PAVED, COVERED BY STRUCTURE, OR PLANTED FOR A PERIOD OVER 90 DAYS SHALL BE TEMPORARILY RE-VEGETATED WITH A NON-IRRIGATED HYDROSEED MIX, GROUND COVER, OR EQUIVALENT MATERIAL. SEE SHEET ___ FOR MIX AND SPECIFICATIONS.

GROUND WATER DISCHARGE NOTES

1. ALL GROUND WATER EXTRACTION AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2015-0013 NPDES CAG919003.

2. THE ESTIMATED MAXIMUM DISCHARGE RATES MUST NOT EXCEED THE LIMITS SET IN THE OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL BOARD UNLESS PRIOR NOTIFICATION AND SUBSEQUENT AUTHORIZATION HAS BEEN OBTAINED, AND DISCHARGE OPERATIONS MODIFIED TO ACCOMMODATE THE INCREASED RATES.

3. ALL GROUND WATER EXTRACTIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2015-0013 NPDES NO. CAG919003.

PRIVATE NOTE

ALL ONSITE, PRIVATE IMPROVEMENTS SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. THE CITY ENGINEER'S APPROVAL OF THIS DRAWING IN NO WAY CONSTITUTES AN APPROVAL OF SAID PRIVATE IMPROVEMENTS. A SEPARATE PERMIT FOR SUCH IMPROVEMENTS MAY BE REQUIRED.

CURB RAMP NOTE

THE REQUIRED DETECTABLE WARNING (TRUNCATED DOMES) ON CURB RAMPS ARE TO COMPLY WITH THE CITY STANDARDS (SDG-130) AND SPECIFICATIONS. A 12" X 12" (MIN.) SAMPLE OF THE DETECTABLE WARNING, THE PRODUCTS' TEST REPORT AND A COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTION MUST BE SUBMITTED TO THE DESIGNATED CITY RESIDENT ENGINEER FOR REVIEW PRIOR TO INSTALLATION. FAILURE TO COMPLY WITH THE STANDARDS, SPECIFICATIONS AND SAMPLE SUMBMITTAL REVIEW PROCESS WILL RESULT IN THE REMOVAL OR REPLACEMENT OF THE DETECTABLE WARNING AND/OR CURB RAMP(S) AT CONTRACTOR AND/OR OWNER'S EXPENSE.

GRADING + GEOTECHNICAL SPECIFICATIONS

1. ALL GRADING SHALL BE CONDUCTED UNDER THE OBSERVATION AND TESTING BY A QUALIFIED PROFESSIONAL ENGINEER AND, IF REQUIRED, A QUALIFIED PROFESSIONAL GEOLOGIST. ALL GRADING MUST BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY ORDINANCE AND THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORT ENTITLED:

REPORT OF GEOTECHNICAL INVESTIGATION, BAYSHORE BIKEWAY BARRIO LOGAN SEGMENT, PREPARED BY ALLIED GEOTECHNICAL ENGINEERS, INC., AUGUST 29, 2018 (PROJECT NO. 65E301)

THESE DOCUMENTS WILL BE FILED IN THE RECORDS SECTION OF DEVELOPMENT SERVICES UNDER THE PROJECT NUMBER INDICATED IN THE TITLE BLOCK OF THESE PLANS.

2. ALL FILL SOIL SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MOST RECENT VERSION OF A.S.T.M. D-1557 OR AN APPROVED ALTERNATIVE STANDARD.

3. AT THE COMPLETION OF THE GRADING OPERATIONS FOR THE EARTHWORK SHOWN ON THIS PLAN, AN AS-GRADED GEOTECHNICAL REPORT SHALL BE PREPARED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE CITY OF SAN DIEGO GUIDELINES FOR GEOTECHNICAL REPORTS. THE FINAL "AS-GRADED" GEOTECHNICAL REPORT SHALL BE SUBMITTED IN ACCORDANCE WITH THE GENERAL NOTES ON THESE PLANS WITHIN 30 DAYS OF THE COMPLETION OF GRADING. WHERE GEOLOGIC INSPECTION IS INDICATED IN THE PERMIT, PLANS, SPECIFICATIONS, OR GEOTECHNICAL REPORT(S), THE FINAL "AS-GRADED" GEOTECHNICAL REPORT MUST ALSO BE REVIEWED AND SIGNED BY A QUALIFIED PROFESSIONAL GEOLOGIST.

4. THE COMPANY OR COMPANIES REPRESENTED BY THE INDIVIDUALS SIGNING ITEM NO. 5 OF THIS CERTIFICATE IS/ARE THE GEOTECHNICAL CONSULTANT(S) OF RECORD. IF THE GEOTECHNICAL CONSULTANT OF RECORD IS CHANGED FOR THE PROJECT, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS SUBMITTED AN ACCEPTABLE TRANSFER OF GEOTECHNICAL CONSULTANT OF RECORD DECLARATION PREPARED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE CITY OF SAN DIEGO GUIDELINES FOR GEOTECHNICAL REPORTS. IT SHALL BE THE DUTY OF THE PERMITTEE TO NOTIFY THE RESIDENT ENGINEER AND THE GEOLOGY SECTION OF DEVELOPMENT SERVICES IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF GRADING.

5. THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT(S) PREPARED FOR THIS PROJECT.

SANI SUTANTO, P.E.	P.E.	DATE
NICHOLAS BARNES, P.G., C.E.G.	P.G., C.E.G.	DATE

ALLIED GEOTECHNICAL ENGINEERS, INC.
9500 CUYAMACA STREET, SUITE 102
SANTEE, CA 92071-2685
619.449.5900

STREET DATA TABLE

STREET NAME	CLASSIFICATION	POSTED SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
HARBOR DRIVE	MAJOR (PARK BLVD TO CESAR CHAVEZ PKWY)	45	19,600	100-120
HARBOR DRIVE	MAJOR (CESAR CHAVEZ PKWY TO CITY LIMIT	40	18,000	100-135
SWITZER STREET	LOCAL	25	--	--
SIGSBEE STREET	MAJOR	25	2,200	60
BEARDSLEY STREET	RESIDENTIAL	25	2,600	60
CESAR CHAVEZ PARKWAY	COLLECTOR	25	3,500	77
SAMPSON STREET	RESIDENTIAL	25	4,200	60
SICARD STREET	RESIDENTIAL	25	--	60
SCHLEY STREET	RESIDENTIAL	25	3,300	60
28TH STREET	MAJOR	30	16,700	100
BELT STREET	NAVY	25	--	--
32ND STREET	MAJOR	30	19,700	100

PAVEMENT DATA TABLE

STREET NAME	FROM		"R" VALUE RANGE	MAX TRAFFIC INDEX (TI)	AC STANDARD SECTION		PCC PAVEMENT	FULL DEPTH
					AC (IN)	CTB (IN)	PCC (IN)	AC (IN)
HARBOR DRIVE	PARK BOULEVARD	28TH STREET	75	10.5	3.0	10.0	8.0	--
HARBOR DRIVE	28TH STREET	32ND STREET	70	10.5	3.0	10.0	--	10.5

SITE DESIGN, SOURCE CONTROL AND POLLUTANT CONTROL BMP OPERATION + MAINTENANCE PROCEDURE

STORM WATER MANAGEMENT AND DISCHARGE CONTROL MAINTENANCE AGREEMENT APPROVAL NO.:

O&M RESPONSIBLE PARTY DESIGNEE: PROPERTY OWNER / HOA / CITY / OTHER:

BMP DESCRIPTION	INSPECTION FREQUENCY	MAINTENANCE FREQUENCY	MAINTENANCE METHOD	QUANTITY	INCLUDED IN O&M MANUAL		SHEET NUMBER(S)
SITE DESIGN ELEMENTS					YES	NO	
DESCRIPTION:							
SOURCE CONTROL ELEMENTS					YES	NO	
DESCRIPTION:							
POLLUTANT CONTROL BMP(S)					YES	NO	
DESCRIPTION:							
HMP FACILITY (IF SEPARATE)					YES	NO	
DESCRIPTION:							
HMP EXEMPT							

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PUBLIC CONTRACT

GENERAL NOTES FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 2 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

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QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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NOT FOR CONSTRUCTION – MAY 6, 2019

CONSTRUCTION BMP GENERAL NOTES

PRIOR TO ANY SOIL DISTURBANCE, TEMPORARY EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED BY THE CONTRACTOR OR QUALIFIED PERSON(S) AS INDICATED BELOW:

1. ALL REQUIREMENTS OF THE CITY OF SAN DIEGO "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPCP) FOR CONSTRUCTION LEVEL BMP'S AND, IF APPLICABLE, THE STORM WATER QUALITY MANAGEMENT PLAN (SWQMP) FOR POST CONSTRUCTION TREATMENT CONTROL BMP'S.

2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL STORM DRAIN INLETS. INLET PROTECTION IN THE PUBLIC RIGHT OF WAY MAY BE TEMPORARILY REMOVED WHERE IT IS PRONE TO FLOODING PRIOR TO A RAIN EVENT AND REINSTALLED AFTER RAIN IS OVER.

3. ALL CONSTRUCTION BMP'S SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.

4. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING, AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION AND SEDIMENT CONTROL MEASURES.

5. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SUB-CONTRACTORS AND SUPPLIERS ARE AWARE OF ALL STORM WATER QUALITY MEASURES AND IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED SWPPP/WPCP WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS, CIVIL PENALTIES AND/OR STOP WORK NOTICES.

6. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT, DEBRIS AND MUD ON AFFECTED AND ADJACENT STREET(S) AND WITHIN STORM DRAIN SYSTEM DUE TO CONSTRUCTION VEHICLES/EQUIPMENT AND CONSTRUCTION ACTIVITY AT THE END OF EACH WORK DAY.

7. THE CONTRACTOR SHALL PROTECT NEW AND EXISTING STORM WATER CONVEYANCE SYSTEMS FROM SEDIMENTATION, CONCRETE RINSE, OR OTHER CONSTRUCTION RELATED DEBRIS AND DISCHARGES WITH THE APPROPRIATE BMP'S THAT ARE ACCEPTABLE TO THE ENGINEER AND AS INDICATED IN THE SWPPP/WPCP.

8. THE CONTRACTOR OR QUALIFIED PERSON SHALL CLEAR DEBRIS, SILT AND MUD FROM ALL DITCHES AND SWALES PRIOR TO AND AFTER EACH RAIN EVENT.

9. IF A NON-STORM WATER DISCHARGE LEAVES THE SITE, THE CONTRACTOR SHALL IMMEDIATELY STOP THE ACTIVITY AND REPAIR THE DAMAGES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF THE DISCHARGE. AS SOON AS PRACTICAL, ANY AND ALL WASTE MATERIAL, SEDIMENT AND DEBRIS FROM EACH NON-STORM WATER DISCHARGE SHALL BE REMOVED FROM THE STORM DRAIN CONVEYANCE SYSTEM AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

10. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID DEPLOYMENT OF CONSTRUCTION BMP'S WHEN RAIN IS IMMINENT.

11. THE CONTRACTOR SHALL RESTORE AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMP'S TO WORKING ORDER YEAR ROUND.

12. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DUE TO GRADING INACTIVITY OR UNFORESEEN CIRCUMSTANCES TO PREVENT NON-STORM WATER AND SEDIMENT-LADEN DISCHARGES.

13. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.

14. ALL EROSION AND SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED SWPPP/WPCP SHALL BE INSTALLED AND MAINTAINED. ALL EROSION AND SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE PROPERLY DOCUMENTED AND INSTALLED TO THE SATISFACTION OF THE RESIDENT ENGINEER.

15. UPON NOTIFICATION BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL ARRANGE FOR MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION AND SEDIMENT CONTROL MEASURES AND OTHER BMP'S RELATIVE TO ANTICIPATED CONSTRUCTION ACTIVITIES.

16. THE CONTRACTOR SHALL CONDUCT VISUAL INSPECTIONS DAILY AND MAINTAIN ALL BMP'S AS NEEDED. VISUAL INSPECTIONS AND MAINTENANCE OF ALL BMP'S SHALL BE CONDUCTED BEFORE, DURING AND AFTER EVERY RAIN EVENT AND EVERY 24 HOURS DURING ANY PROLONGED RAIN EVENT. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ALL BMP'S AS SOON AS POSSIBLE AS SAFETY ALLOWS.

17. CONSTRUCTION ENTRANCE AND EXIT AREA: TEMPORARY CONSTRUCTION ENTRANCE AND EXIT AREA SHALL BE ON LEVEL, STABILIZED GROUND. THE ENTRANCE AND EXIT AREA SHALL BE CONSTRUCTED BY OVERLAYING THE STABILIZED ACCESS AREA WITH 3- TO 6-INCH DIAMETER STONES. THE AREA SHALL BE MINIMUM 50' LONG X 30' WIDE. IN LIEU OF STONE-COVERED AREA, THE CONTRACTOR MAY CONSTRUCT RUMBLE RACKS OF STEEL PANELS WITH RIDGES MINIMUM 20' LONG X 30' WIDE CAPABLE OF PREVENTING THE MIGRATION OF CONSTRUCTION MATERIALS INTO THE TRAVELED WAYS.

18. PERFORMANCE STANDARDS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING WATER POLLUTION CONTROL MEASURES BASED ON PERFORMANCE STANDARDS. PERFORMANCE STANDARDS SHALL INCLUDE:

A. NON-STORM WATER DISCHARGES FROM THE SITE SHALL NOT OCCUR TO THE MEP. STORM WATER DISCHARGES SHALL BE FREE OF POLLUTANTS INCLUDING SEDIMENT TO THE MEP.

B. EROSION SHALL BE CONTROLLED BY ACCEPTABLE BMP'S TO THE MEP. IF RILLS AND GULLIES APPEAR, THEY SHALL BE REPAIRED AND ADDITIONAL BMP'S INSTALLED TO PREVENT A REOCCURRENCE OF EROSION.

C. AN INACTIVE AREA SHALL BE PROTECTED TO PREVENT POLLUTANT DISCHARGES. A SITE OR PORTIONS OF A SITE SHALL BE CONSIDERED INACTIVE WHEN CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD OF 14 OR MORE CONSECUTIVE DAYS.

MINIMUM POST-CONSTRUCTION MAINTENANCE PLAN

AT THE COMPLETION OF THE WORK SHOWN, THE FOLLOWING PLAN SHALL BE FOLLOWED TO ENSURE WATER QUALITY CONTROL IS MAINTAINED FOR THE LIFE OF THE PROJECT:

1. STABILIZATION: ALL PLANTED SLOPES AND OTHER VEGETATED AREAS SHALL BE INSPECTED PRIOR TO OCTOBER 1ST OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN ½ INCH) AND REPAIRED AND REPLANTED AS NEEDED UNTIL A NOTICE OF TERMINATION (NOT) IS FILED.

2. STRUCTURAL PRACTICES: DESILTING BASINS, DIVERSION DITCHES, DOWNDRAINS, INLETS, OUTLET PROTECTION MEASURES, AND OTHER PERMANENT WATER QUALITY AND SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED PRIOR TO OCTOBER 1ST OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN ½ INCH). REPAIRS AND REPLACEMENTS SHALL BE MADE AS NEEDED AND RECORDED IN THE MAINTENANCE LOG IN PERPETUITY.

3. OPERATION AND MAINTENANCE FUNDING: POST-CONSTRUCTION MANAGEMENT MEASURES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL THE TRANSFER OF RESPECTIVE SITES TO HOME BUILDERS, INDIVIDUAL OWNERS, HOMEOWNERS ASSOCIATIONS, SCHOOL DISTRICTS, OR LOCAL AGENCIES AND/OR GOVERNMENTS. AT THAT TIME, THE NEW OWNERS SHALL ASSUME RESPONSIBILITY FOR THEIR RESPECTIVE PORTIONS OF THE DEVELOPMENT.

SITE DESIGN BMP CHECKLIST FOR STANDARD PROJECTS — FORM I-5A

ALL DEVELOPMENT PROJECTS MUST IMPLEMENT SITE DESIGN BMP'S. REFER TO CHAPTER 4 AND APPENDIX E OF THE BMP DESIGN MANUAL FOR INFORMATION TO IMPLEMENT BMPS SHOWN IN THIS CHECKLIST.

NOTE: ALL SELECTED BMPS MUST BE SHOWN ON THE CONSTRUCTION PLANS

SITE DESIGN REQUIREMENT	APPLIED?		
4.3.1 MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES	☒ YES	☐ NO	☐ N/A
4.3.2 CONSERVE NATURAL AREAS, SOILS, AND VEGETATION	☒ YES	☐ NO	☐ N/A
4.3.3 MINIMIZE IMPERVIOUS AREA	☒ YES	☐ NO	☐ N/A
4.3.4 MINIMIZE SOIL COMPACTION	☒ YES	☐ NO	☐ N/A
4.3.5 IMPERVIOUS AREA DISPERSION	☒ YES	☐ NO	☐ N/A
4.3.6 RUNOFF COLLECTION	☒ YES	☐ NO	☐ N/A
4.3.7 LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES	☒ YES	☐ NO	☐ N/A
4.3.88 HARVESTING AND USING PRECIPITATION	☐ YES	☐ NO	☒ N/A

DISCUSSION / JUSTIFICATION FOR ALL "NO" ANSWERS SHOWN ABOVE:

SOURCE CONTROL BMP CHECKLIST FOR STANDARD PROJECTS — FORM I-4A

ALL DEVELOPMENT PROJECTS MUST IMPLEMENT SOURCE CONTROL BMP'S. REFER TO CHAPTER 4 AND APPENDIX E OF THE BMP DESIGN MANUAL FOR INFORMATION TO IMPLEMENT BMPS SHOWN IN THIS CHECKLIST.

NOTE: ALL SELECTED BMPS MUST BE SHOWN ON THE CONSTRUCTION PLANS

SOURCE CONTROL REQUIREMENT	APPLIED?		
4.2.1 PREVENTION OF ILLICIT DISCHARGES INTO THE MS4	☒ YES	☐ NO	☐ N/A
4.2.2 STORM DRAIN STENCILING OR SIGNAGE	☒ YES	☐ NO	☐ N/A
4.2.3 PROTECT OUTDOOR MATERIALS STORAGE AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL	☐ YES	☐ NO	☒ N/A
4.2.4 PROTECT MATERIALS STORED IN OUTDOOR WORK AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL	☐ YES	☐ NO	☒ N/A
4.2.5 PROTECT TRASH STORAGE AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL	☐ YES	☐ NO	☒ N/A
4.2.6 BMPS BASED ON POTENTIAL SOURCES OF RUNOFF POLLUTANTS			
ON-SITE STORM DRAIN INLETS	☐ YES	☐ NO	☒ N/A
INTERIOR FLOOR DRAINS AND ELEVATOR SHAFT SUMP PUMPS	☐ YES	☐ NO	☒ N/A
INTERIOR PARKING GARAGES	☐ YES	☐ NO	☒ N/A
NEED FOR FUTURE INDOOR & STRUCTURAL PEST CONTROL	☐ YES	☐ NO	☒ N/A
LANDSCAPE/OUTDOOR PESTICIDE USE	☐ YES	☐ NO	☒ N/A
POOLS, SPAS, PONDS, DECORATIVE FOUNTAINS, AND OTHER WATER FEATURES	☐ YES	☐ NO	☒ N/A
FOOD SERVICE	☐ YES	☐ NO	☒ N/A
REFUSE AREAS	☐ YES	☐ NO	☒ N/A
INDUSTRIAL PROCESSES	☐ YES	☐ NO	☒ N/A
OUTDOOR STORAGE OF EQUIPMENT OR MATERIALS	☐ YES	☐ NO	☒ N/A
VEHICLE/EQUIPMENT REPAIR AND MAINTENANCE	☐ YES	☐ NO	☒ N/A
FUEL DISPENSING AREA	☐ YES	☐ NO	☒ N/A
LOADING DOCKS	☐ YES	☐ NO	☒ N/A
FIRE SPRINKLER TEST WATER	☐ YES	☐ NO	☒ N/A
MISCELLANEOUS DRAIN OR WASH WATER	☐ YES	☐ NO	☒ N/A
PLAZAS, SIDEWALKS, AND PARKING LOTS	☐ YES	☐ NO	☒ N/A
SC-6A: LARGE TRASH GENERATING FACILITIES	☐ YES	☐ NO	☒ N/A
SC-6B: ANIMAL FACILITIES	☐ YES	☐ NO	☒ N/A
SC-6C: PLANT NURSERIES AND GARDEN CENTERS	☐ YES	☐ NO	☒ N/A
SC-6D: AUTOMOTIVE-RELATED USES	☐ YES	☐ NO	☒ N/A

DISCUSSION / JUSTIFICATION FOR ALL "NO" ANSWERS SHOWN ABOVE:

WATER NOTES

1. EACH LOT SHALL RECEIVE A 1-INCH WATER SERVICE, UNLESS INDICATED ON THE PLANS OR SPECIAL SPECIFICATIONS. LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER OF WORK. THE "AS-BUILT" LOCATIONS SHALL BE SHOWN ON THESE PLANS AND THE SEWER LATERAL TABLE COMPLETED PRIOR TO ACCEPTANCE OF THE WATER FACILITIES.

2. LOCATE WATER SERVICE HOUSE CONNECTIONS OUT OF DRIVEWAYS. THE SEWER HOUSE CONNECTIONS SHALL BE A MINIMUM OF 5 FEET DOWNHILL FROM THE WATER SERVICE.

3. ALL CONNECTIONS TO EXISTING WATER MAINS ARE TO BE DONE BY THE CITY'S DEPARTMENT FOR WHICH THE FOLLOWING FEES WILL BE CHARGED. IF THE WATER CONNECTIONS ARE NOT READY TO BE MADE AND THE FEES PAID BEFORE __, THE CITY RESERVES THE RIGHT TO ADJUST THE FEES ACCORDING TO THE FEE SCHEDULE IN EFFECT AT THE TIME THE CONNECTIONS ARE MADE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXPOSE THE EXISTING MAIN AT THE CONNECTION POINT AND TO INSTALL THE NEW MAIN AT THE ALIGNMENT AND GRADE WHICH WILL PERMIT THE CITY TO MAKE A "STRAIGHT-IN" CONNECTION WITHOUT USING MORE THAN 10 LINEAL FEET OF PIPE.

	COST	TYPE OF CONNECTION	SHEET
ITEM NO.1*	$XXXX	XXXXX	X
ITEM NO.2*	$XXXX	XXXXX	X

* EXAMPLE CONNECTION

CONTRACTOR TO SET SADDLE/TAPPING SLEEVE AND CORPORATION STOP/TAPPING VALVE FOR ALL WET TAPS APPROVAL BY THE SHUTDOWN COMMITTEE IS REQUIRED FOR ALL MAJOR PIPELINES 16" AND LARGER. SHUTDOWN WINDOW PERIOD IS BETWEEN NOVEMBER 1 TILL APRIL 1 OF THE FOLLOWING YEAR, WHEN WATER DEMAND IS LOWER.

4. PROVIDING WATER FOR THIS DEVELOPMENT IS DEPENDENT UPON PRIOR CONSTRUCTION OF CERTAIN WATER FACILITIES IN PREVIOUSLY APPROVED DEVELOPMENTS. IF THESE FACILITIES HAVE NOT BEEN CONSTRUCTED AND ACCEPTED BY THE CITY AT THE TIME OF CONNECTION, THEN CERTAIN PORTIONS OF THESE PREVIOUSLY APPROVED OR PLANNED WATER FACILITIES, AS REQUIRED BY THE CITY ENGINEER, WILL BECOME OFF-SITE IMPROVEMENTS AS PART OF THIS DEVELOPMENT. PRIOR TO CONNECTION TO PUBLIC WATER FACILITIES, THESE OFF-SITE IMPROVEMENTS MUST BE CONSTRUCTED AND ACCEPTED BY THE CITY AND DOCUMENTED AS A CONSTRUCTION CHANGE TO THE ORIGINAL APPROVED MYLARS FOR THIS DEVELOPMENT. THIS DEVELOPMENT'S WATER FACILITIES ARE DEPENDENT UPON THE COMPLETION AND ACCEPTANCE OF THE FOLLOWING APPROVED WATER FACILITIES:

(TITLE) (DRAWING NUMBER)

5. ALL VALVES WILL BE FLANGED TO CROSSES AND TEES. ONLY GATE VALVES SHALL BE USED IN FIRE HYDRANT INSTALLATIONS. ALL BURIED DUCTILE AND GRAY CAST IRON PIPE, FITTINGS, VALVES AND APPURTENANCES SHALL BE COATED WITH A DIELECTRIC COATING: A LIQUID EPOXY COATING SYSTEM PER AWWA C-210 AT 24 MILS MINIMUM DRY FILM THICKNESS (MDFT), OR A COLD APPLIED THREE PART SYSTEM PETROLEUM WAX TAPE PER AWWA C-217, OR A 100% POLYURETHANE COATING OF 24 MILS MDFT SUITABLE FOR BURIED USE.

6. ALL PROPOSED WATER FACILITY INSTALLATIONS SHALL BE CONSTRUCTED WITH MATERIALS CURRENTLY LISTED IN THE MOST CURRENT EDITION OF THE CITY OF SAN DIEGO WATER UTILITIES DEPARTMENT APPROVED MATERIALS LIST AS REFERENCED IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. RECENT REVISIONS INCLUDE BUT IS NOT LIMITED TO THE REQUIREMENT FOR POLYMER CONCRETE WATER METER BOXES INSTEAD OF THE STANDARD PRECAST WATER METER BOXES.

7. ALL HORIZONTAL AND VERTICAL SEPARATION DIMENSIONS SHOWN BETWEEN WATER AND SEWER MAINS SHALL BE MEASURED FROM THE NEAREST EDGE OF EACH PIPELINE PER STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES, BASIC SEPARATION STANDARDS. MINIMUM SEPARATION BETWEEN WATER AND SEWER MAINS SHALL BE 10 FOOT HORIZONTAL AND 1 FOOT VERTICAL.

		AS-BUILT PAVEMENT STRUCTURAL SECTION		
STREET NAME	STATION LIMITS	AC (IN.)	CTB (IN.)	PCC (IN.)

NOTE:

STREET SUBGRADE SOIL SAMPLES ARE TO BE TAKEN FOR "R" VALUE ANALYSIS BY A PRIVATE GEOTECHNICAL ENGINEERING FIRM AND UNDER THE DIRECTION OF THE RESIDENT ENGINEER. THESE ANALYSIS ARE TO BE PERFORMED BY A CERTIFIED PRIVATE GEOTECHNICAL FIRM TO DETERMINE THE PAVEMENT SECTION(S) DURING CONSTRUCTION. A PAVEMENT SECTION LETTER WILL BE ISSUED BY THE CITY.

PERMANENT POST-CONSTRUCTION BMP NOTES

1. OPERATION AND MAINTENANCE SHALL BE SECURED BY AN EXECUTED AND RECORDED STORM WATER MANAGEMENT AND DISCHARGE CONTROL MAINTENANCE AGREEMENT (SWMDCMA), OR ANOTHER MECHANISM APPROVED BY THE CITY ENGINEER, THAT ASSURES ALL PERMANENT BMP'S WILL BE MAINTAINED IN PERPETUITY, PER THE LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS.

2. ANY MODIFICATION(S) TO THE PERMANENT POST CONSTRUCTION BMP DEVICES/STRUCTURES SHOWN ON PLAN REQUIRES A CONSTRUCTION CHANGE TO BE PROCESSED AND APPROVED THROUGH DEVELOPMENT SERVICES DEPARTMENT BY THE ENGINEER OF WORK. APPROVAL OF THE CONSTRUCTION CHANGE IS REQUIRED PRIOR TO CONSTRUCTION OF THE PERMANENT BMP.

STORM WATER REQUIREMENTS

1. THIS PROJECT IS SUBJECT TO MUNICIPAL CODE SECTION 4303 AND ORDER NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100.

2. ALL WORK RELATED TO POST-CONSTRUCTION STORM WATER QUALITY SHALL BE IN ACCORDANCE WITH THE STORM WATER QUALITY MANAGEMENT PLAN ENTITLED PROJECT NAME AND NUMBER, PROJECT APPLICANT PROJECT ADDRESS, PREPARED BY (COMPANY NAME), REPORT DATE.

3. POST-CONSTRUCTION BMP'S ARE REQUIRED, SEE SHEET(S)_____.

PUBLIC CONTRACT

GENERAL NOTES FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 3 OF 187 SHEETS

PROJECT NO._____

V.T.M._____

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR_____ DATE STARTED_____
INSPECTOR_____ DATE COMPLETED_____

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO. 41370- 3 -D

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QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER — ALEC E. RIVERA — No. 87936 — Exp. 12/31/19 — CIVIL — STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

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NOT FOR CONSTRUCTION – MAY 6, 2019

5/3/2019 2:06:08 PM

STRIPING AND SIGNING GENERAL NOTES

1. INSTALLATION OF ALL STRIPING, SIGNS AND PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ALL STRIPING AND SIGNING SHALL CONFORM TO THE MOST RECENTLY ADOPTED EDITION OF THE FOLLOWING MANUALS:

DESCRIPTION	EDITION	DOCUMENT NO.
STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREENBOOK")	2018	PWPI010119-01
CITY OF SAN DIEGO STANDARD DRAWINGS	2018	PWPI010119-03
CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)	2014	PWPI092816-07

3. ALL SIGNING AND STRIPING IS SUBJECT TO THE APPROVAL OF THE CITY ENGINEER PRIOR TO INSTALLATION AND/OR REMOVAL.
4. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS AND LEGENDS BY SANDBLASTING AND/OR GRINDING WITH THE SEAL. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
5. SIGN POSTS SHALL BE INSTALLED WITH SQUARE PERFORATED STEEL TUBING WITH A BREAKAWAY BASE PER CITY OF SAN DIEGO STANDARD DRAWING M-45.
6. ALL RAISED MEDIAN NOSES SHALL BE PAINTED YELLOW.
7. ALL SIGNS SHOWN ON THE STRIPING AND SIGNING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIFICALLY INDICATED TO BE RELOCATED OR TO REMAIN.
8. STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET UNLESS INDICATED OTHERWISE.
9. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS (EXCEPT WITHIN BIKE LANES) SHALL BE THERMOPLASTIC.
10. THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858) 495-4741 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO AND UPON COMPLETION OF STRIPING AND SIGNING.

MTS CONSTRUCTION NOTES

1. A RIGHT OF ENTRY (ROE) PERMIT IS NECESSARY WHEN ENTERING MTS/SAN DIEGO AND ARIZONA EASTERN (SD&AE) RIGHT-OF-WAY (MTS R/W), INCLUDING AIRSPACE, FOR ANY PURPOSE. A ROE PERMIT IS ALSO REQUIRED WHEN WORKING IN PUBLIC RIGHT-OF-WAY OCCUPIED BY MTS/SD&AE FACILITIES. INFORMATION TO APPLY FOR ROE CAN BE OBTAINED FROM MTS'S WEBSITE AT: http://www.sdmts/com/Business/Permits.asp OR CONTACT MTS RIGHT OF WAY SERVICES AT TEL. (619)557-4501. APPLICANT/CONTRACTOR IS REFERRED TO AS THE "PERMITTEE".
2. CERTIFICATE OF INSURANCE FROM YOUR INSURANCE COMPANY FOR GENERAL LIABILITY, AUTOMOBILE LIABILITY, POLLUTION LIABILITY (IF APPLICABLE), PROFESSIONAL LIABILITY (IF APPLICABLE), AND WORKMAN'S COMPENSATION MUST BE SUBMITTED AND APPROVED BY MTS BEFORE THE PERMIT WILL BE PROCESSED. FULL INSURANCE REQUIREMENT GUIDELINES CAN BE ACCESSED FROM THE MTS WEBSITE NOTED ABOVE.
3. MOST GENERAL LIABILITY INSURANCE POLICIES DO NOT COVER RAILROADS. ANY EXCLUSIONS RELATING TO PERFORMANCE OF OPERATIONS WITHIN THE VICINITY OF ANY RAILROAD, BRIDGE, TRESTLE, TRACK, ROADBED, TUNNEL, UNDERPASS, OR CROSSING MUST BE DELETED FROM ALL POLICIES BY ENDORSEMENT. ADDITIONALLY, A SEPARATE RAILROAD PROTECTIVE LIABILITY POLICY WILL MOST LIKELY BE REQUIRED AFTER PROJECT REVIEW AS DEEMED NECESSARY BY MTS.
4. ALL PERSONNEL PERFORMING WORK ON MTS R/W, OR ENTERING MTS R/W SHALL REQUIRE PROPER MTS RAIL SAFETY TRAINING CERTIFICATION PRIOR TO ENTERING MTS R/W. ANY CONTRACTORS OR SUBCONTRACTORS PERFORMING WORK ON BEHALF OF PERMITTEE, SHALL BE DEEMED AS AGENTS OF PERMITTEE AND SHALL REQUIRE SAID TRAINING AS WELL. FOR TRAINING INFORMATION, EMAIL rwst@sdmts.com. TRAINING CERTIFICATION IS VALID FOR ONE YEAR AND IS CONFINED TO MTS/SD&AE FACILITIES ONLY.
5. PERMITTEE SHALL PROVIDE MTS WITH AN APPROVED SET OF TRAFFIC CONTROL PLANS THAT CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND COMPLY IN PARTICULAR WITH PART 8 "TRAFFIC CONTROL FOR RAILROAD AND LIGHT RAIL TRANSIT GRADE CROSSINGS".
6. IF PROJECT INVOLVES CASING SLEEVES UNDER RAILROAD TRACKS AND ACROSS MTS R/W, PERMITTEE SHALL ADHERE TO MTS JACK AND BORE DESIGN CRITERIA AND CONSTRUCTION NOTES.
7. A PRE-CONSTRUCTION MEETING WILL BE REQUIRED WITH MTS/SDTI PRIOR TO WORK COMMENCING WITHIN MTS R/W. A WRITTEN NOTICE OF PLANNED START OF WORK MUST BE SUBMITTED TO MTS A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO WORK STARTING IN MTS R/W. ALL WORK WILL BE STOPPED AND PERMITTEE WILL NOT BE ALLOWED IN MTS R/W WITHOUT PROPER NOTIFICATION.
8. PERMITTEE'S ON-SITE SUPERVISION SHALL RETAIN/MAINTAIN A FULLY EXECUTED COPY OF THE RIGHT OF ENTRY PERMIT AT ALL TIMES WHILE ON MTS R/W.
9. SDTI RAIL FLAGGING WILL BE REQUIRED ANYTIME WORK IS WITHIN FIFTEEN (15) FEET OF ANY OPERABLE TRACK INCLUDING AIRSPACE OR AS DEEMED NECESSARY BY MTS. A SDTI FLAGPERSON/RIGHT-OF-WAY WORK REQUEST FORM MUST BE SUBMITTED TO SDTI A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO ANTICIPATED WORK. FORMS ARE ATTACHED TO THE ROE PERMIT OR CAN BE REQUESTED THROUGH MTS RIGHT OF WAY SERVICES.
10. A SDTI TRACTION POWER SHUTDOWN MAY BE NECESSARY FOR THE WORK ZONE TO PROTECT AND MAINTAIN THE REQUIRED TEN (10) FOOT CLEARANCE FROM TROLLEY OVERHEAD HIGH VOLTAGE CATENARY SYSTEM (OCS). PERMITTEE SHALL SUBMIT A SDTI RED TAG/TRACTION POWER REMOVAL REQUEST FORM TO SDTI AT LEAST THREE (3) BUSINESS DAYS PRIOR TO THE START OF WORK. POWER SHUTDOWNS SHALL ONLY BE ALLOWED DURING NON-OPERATING TROLLEY HOURS. FORMS ARE ATTACHED TO THE ROE PERMIT OR CAN BE REQUESTED THROUGH MTS RIGHT OF WAY SERVICES.
11. PERMITTEE SHALL CONTACT AND SCHEDULE DIG-ALERT AND CABLE PIPE AND LEAK ("CPL") PRIOR TO ANY EXCAVATION IN MTS R/W. PERMITTEE SHALL NOTIFY MTS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE SCHEDULED UTILITY MARKOUT REQUEST AND SHALL SUBMIT A SDTI FLAGPERSON/RIGHT-OF-WAY WORK REQUEST FORM. SDTI PERSONNEL SHALL ACCOMPANY CPL FOR ANY MARKOUT OF TROLLEY FACILITIES.
12. PERMITTEE SHALL ADHERE TO CONSTRUCTION AND SAFETY STANDARDS REQUIRED BY MTS OF THEIR CONTRACTORS WHEN WORKING WITHIN MTS R/W.
13. PERMITTEE SHALL PERFORM ALL WORK IN ACCORDANCE WITH APPLICABLE CALIFORNIA PUBLIC UTILITIES COMMISSION (CPUC) AND CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (Cal-OSHA) REGULATIONS, MTS LRT DESIGN CRITERIA, AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA) STANDARD SPECIFICATIONS, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) GUIDELINES AND MTS, SDTI AND SD&IV OPERATIONS AND SAFETY POLICIES.
14. PERMITTEE AGREES THAT NO WORK BY HIMSELF OR HIS AUTHORIZED AGENT WILL INTERFERE WITH RAILROAD/TROLLEY OPERATIONS.
15. PERMITTEE AGREES TO COORDINATE ON A DAILY BASIS A REASONABLE ACCESS TO ALL MTS/SD&AE FACILITIES WITH CONTRACT OPERATORS, SDTI, AND SD&IV. SDTI TROLLEY OPERATIONS ARE GENERALLY FROM THE HOURS OF 4:00AM TO 2:00AM THE FOLLOWING DAY. SD&IV FREIGHT TRAINS NORMAL OPERATIONS ARE DURING NON-TROLLEY HOURS.
16. PERMITTEE SHALL MAINTAIN SAFE PEDESTRIAN ACCESS TO ALL TROLLEY PLATFORMS AND BUS STOPS AT ALL TIMES. A MINIMUM FIVE (5) FOOT WIDE ACCESSIBLE PEDESTRIAN PATH THROUGH THE CONSTRUCTION SITE SHALL BE MAINTAINED AT ALL TIMES. THE CONSTRUCTION BOUNDARY SHALL CONSIST OF A TOP AND BOTTOM RAIL CONSTRUCTED OF PLASTIC PIPE, OSHA PLASTIC MESH, OR APPROVED EQUAL. YELLOW CAUTION TAPE IS NOT ACCEPTABLE.
17. PERMITTEE SHALL NOT STORE EQUIPMENT, TOOLS, AND MATERIALS WITHIN FIFTEEN (15) FEET FROM TROLLEY OPERABLE TRACK AND WITHIN TWENTY-FIVE (25) FEET FROM FREIGHT TRACK OPERATIONS.
18. PERMITTEE SHALL NOT USE OR STORE HAZARDOUS SUBSTANCES, AS DEFINED BY THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT, AS AMENDED ("CERCLA") OR PETROLEUM OR OIL AS DEFINED BY APPLICABLE ENVIRONMENTAL LAWS ON MTS R/W.
19. NO VEHICULAR CROSSING OVER TRACKS SHALL BE INSTALLED OR USED BY PERMITTEE WITHOUT PRIOR WRITTEN PERMISSION OF RAILROAD.
20. A WRITTEN NOTICE SHALL BE SUBMITTED TO MTS ONE (1) BUSINESS DAY AFTER WORK IS COMPLETED WITHIN MTS R/W. ANY ADDITIONAL WORK REQUIRED TO REPLACE OR REPAIR THE RAILROAD FACILITIES IN GOOD WORKING ORDER WILL BE THE PERMITTEE'S RESPONSIBILITY PRIOR TO RELIEF FROM MAINTENANCE WITHIN THE PERMIT AREA.
21. PERMITTEE SHALL REMOVE ALL OF PERMITTEE'S TOOLS, EQUIPMENT, AND MATERIALS FROM RAILROAD PREMISES PROMPTLY UPON COMPLETION OF WORK AND SHALL RESTORE ALL FACILITIES, IMPROVEMENTS, LANDSCAPING, ETC., TO THEIR ORIGINAL CONDITION OR AS SHOWN ON PROJECT WORK SITE PLANS.

STREET LIGHT NOTES

1. ALL STREET LIGHT LUMINAIRES SHALL CONFORM TO THE CITY OF SAN DIEGO:
   a. STREET DESIGN MANUAL, MARCH 2017 (https://www.sandiego.gov/sites/default/files/street_design_manual_march_2017-final.pdf)
   b. STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2016 (https://www.sandiego.gov/sites/default/files/2016_standard_drawings.pdf)
   c. APPROVED MATERIALS LIST, JUNE 2016 (https://www.sandiego.gov/sites/default/files/approved_materials_list_-_lighting.pdf)
2. ALL STREET LIGHTING SHALL BE BROAD SPECTRUM LIGHT SOURCES NO GREATER THAN 4000K CORRELATED COLOR TEMPERATURE (CCT), EXCEPT FOR AREAS WITHIN A 35 MILE RADIUS OF MT. PALOMAR OBSERVATORY, WHICH ARE DESIGNATED FOR A MAXIMUM OF 3000K CCT PER COUNCIL RESOLUTION 306251.
3. STREET LIGHTING SHALL BE EQUIPPED WITH ADAPTIVE CONTROL NODES WHEREVER POSSIBLE.
4. MID-BLOCK STREET LIGHTING WITH FULLY SHIELDED LUMINAIRES SHALL BE PROVIDED AT INTERVALS SET FORTH IN THE STREET DESIGN MANUAL.
5. NON-SIGNALIZED INTERSECTION STREET LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH TABLE 4-1 OF THE STREET DESIGN MANUAL.
6. STREET LIGHT SCHEDULE

STREET LIGHT #	STREET NAME	LOCATION REFERENCE**	CORNER/ STREET SIDE	TYPE OF WORK LUMINAIRE ITEM #	POLE TYPE/ ITEM #
1	HARBOR DRIVE	SOUTH OF PARK BLVD, 587'	CL	(N) LED	15D
2	HARBOR DRIVE	SOUTH OF PARK BLVD, 727'	CL	(N) LED	15D
3	HARBOR DRIVE	SOUTH OF PARK BLVD, 902'	CL	(N) LED	15D
4	HARBOR DRIVE	SOUTH OF PARK BLVD, 1057'	CL	(N) LED	15D
5	HARBOR DRIVE	SOUTH OF PARK BLVD, 1210'	CL	(N) LED	15D
6	HARBOR DRIVE	SOUTH OF PARK BLVD, 1386'	CL	(N) LED	15D
7	HARBOR DRIVE	SOUTH OF PARK BLVD, 1526'	CL	(N) LED	15D
8	HARBOR DRIVE	BEARDSLEY STREET INTERSECTION	N/W	(N) LED	EX.
9	HARBOR DRIVE	SOUTH OF BEARDSLEY STREET, 157'	W	(N) LED/ARM	EX.
10	HARBOR DRIVE	SOUTH OF BEARDSLEY STREET, 318'	W	(N) LED/ARM	EX.
11	HARBOR DRIVE	NORTH OF CESAR CHAVEZ PKWY, 157'	W	(N) LED/ARM	EX.
12	HARBOR DRIVE	SOUTH OF CESAR CHAVEZ PKWY, 643'	E	(N) LED	15
13	HARBOR DRIVE	SOUTH OF CESAR CHAVEZ PKWY, 729'	E	(N) LED	15
14	HARBOR DRIVE	NORTH OF SAMPSON STREET, 948'	E	(N) LED	15
15	HARBOR DRIVE	NORTH OF SAMPSON STREET, 648'	E	(N) LED	15
16	HARBOR DRIVE	NORTH OF SAMPSON STREET, 348'	E	(N) LED	15
17	HARBOR DRIVE	SOUTH OF SCHLEY STREET, 870'	E	(N) LED	15
CE-1	HARBOR DRIVE	INTERSECTION WITH CESAR CHAVEZ	N/W	(N) LED	29-5-100
CE-2	HARBOR DRIVE	INTERSECTION WITH CESAR CHAVEZ	N/E	(U) LED	EX.
CE-3	HARBOR DRIVE	INTERSECTION WITH CESAR CHAVEZ	S/E	(N) LED	29-5-100
CE-4	HARBOR DRIVE	INTERSECTION WITH CESAR CHAVEZ	S/W	(U) LED	EX.
SA-1	HARBOR DRIVE	INTERSECTION WITH SAMPSON STREET	N/E	(N) LED	29-5-100
SA-2	HARBOR DRIVE	INTERSECTION WITH SAMPSON STREET	S/E	(U) LED	EX.
SC-1	HARBOR DRIVE	INTERSECTION WITH SCHLEY STREET	N/W	(U) LED	EX.
SC-2	HARBOR DRIVE	INTERSECTION WITH SCHLEY STREET	N/E	(N) LED	15TS
TW-1	HARBOR DRIVE	INTERSECTION WITH 28TH STREET	N/W	(N) LED	24-4-100
TW-2	HARBOR DRIVE	INTERSECTION WITH 28TH STREET	N/E	(N) LED	26-3-100
TW-3	HARBOR DRIVE	INTERSECTION WITH 28TH STREET	S/E	(N) LED	29-5-100
BE-1	HARBOR DRIVE	INTERSECTION WITH BELT STREET	N/W	(N) LED	29-5-100
BE-2	HARBOR DRIVE	INTERSECTION WITH BELT STREET	S/W	(N) LED	15TS
TH-1	HARBOR DRIVE	INTERSECTION WITH 32ND STREET	N MEDIAN	(U) LED	EX.
TH-2	HARBOR DRIVE	INTERSECTION WITH 32ND STREET	N/W	(N) LED	15TS
TH-3	HARBOR DRIVE	INTERSECTION WITH 32ND STREET	S/E	(U) LED	EX.

** LOCATION REFERENCE FOR MID-BLOCK STREET LIGHTS: DISTANCE TO CENTERLINE OF NEAREST CROSS STREET.
*** TYPE OF WORK: NEW (N), UPGRADE (U), AND RELOCATE (R).

7. NATIONAL ELECTRICAL CODE (NEC) WIRE COLOR CODING SHALL BE USED FOR ALL ELECTRICAL WORK.
8. IMPROVEMENT PLANS SHALL SHOW AND LABEL ALL EXISTING AND PROPOSED STREET LIGHTS, PULL BOXES, AND SERVICE POINTS IN THE PROJECT VICINITY.
9. ALL NEW STREET LIGHTS SHALL HAVE A PULL BOX ADJACENT TO THE POLE.
10. THE CONTRACTOR INSTALLING THE STREET LIGHTING DISTRIBUTION SYSTEM SHALL NOTIFY THE CITY FIELD ENGINEER AT (858) 627-3200 A MINIMUM OF THREE (3) DAYS PRIOR TO STARTING WORK. ALSO, A PRE-CONSTRUCTION MEETING WILL BE REQUIRED WITH THE CITY ELECTRICAL INSPECTOR (RE) TO REVIEW THE LIGHTING REQUIREMENTS.
11. THE CONTRACTOR SHALL REPAIR AND/OR REPAINT EXISTING STREET LIGHTS IN THE CITY CENTRE TO THE SATISFACTION OF THE CITY ENGINEER.
12. THE CITY ELECTRICAL INSPECTOR (RE) SHALL VERIFY ALL STREET LIGHTS ARE FUNCTIONAL BEFORE SIGNING OFF THE PERMIT.
13. SUPPLEMENTAL AND SPECIAL ORNAMENTAL STREET LIGHTING SHALL BE INCLUDED IN A SPECIAL STREET LIGHTING ASSESSMENT DISTRICT OR MAINTENANCE ASSESSMENT DISTRICT (MAD), AND SHALL BE DESIGNATED WITH AN ASTERISK NEXT TO THE STREET LIGHT NUMBER. THE DEVELOPER/APPLICANT SHALL ESTABLISH A MAD FUND PRIOR TO APPROVAL OF IMPROVEMENT PLANS. INQUIRIES CAN BE DIRECTED TO THE PARK & RECREATION DEPARTMENT, OPEN SPACE DIVISION AT (619) 685-1350.
14. ALL PRIVATE STREET LIGHTS SHALL HAVE A SEPARATE SERVICE POINT AND SHALL NOT BE CONNECTED TO CITY CIRCUITS.
15. PRIVATE STREET LIGHTS SHOWN ON THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. PROPOSED PRIVATE STREET LIGHTS SHALL BE PERMITTED AND INSPECTED UNDER A SEPARATE ELECTRICAL PERMIT.

TRUCK HAUL NOTES

THE CONTRACTOR SHALL SUBMIT A TRUCK HAUL ROUTE PLAN (11"X17") FOR APPROVAL PRIOR TO STARTING EXPORT OR IMPORT OF MATERIAL. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER, 3RD FLOOR, BOOTH 22, ENGINEERING DIVISION, DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO (619) 446-5150. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.

TRAFFIC CONTROL NOTES (5000 ADT OR MORE)

1. VALIDATION: THE TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES AND WORK HOURS ARE APPROVED. THE CONTRACTOR SHALL SUBMIT TWO (2) REDUCED COPIES OF TRAFFIC CONTROL PLANS (11"X17") TO THE TRAFFIC CONTROL PERMIT COUNTER, 3RD FLOOR DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM OF FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

2. CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858) 495-4741 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY CONSTRUCTION WORK AFFECTING TRAFFIC SIGNALS.

3. STANDARDS: THE TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF EACH OF THE FOLLOWING MANUALS:

DESCRIPTION	EDITION	DOCUMENT NO.
STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREENBOOK")	2015	PWPI070116-01
CITY OF SAN DIEGO STANDARD DRAWINGS	2016	PWPI070116-03
CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)	2014	PWPI092816-07

4. NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL AFFECTING THE AGENCIES LISTED BELOW:

FIRE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(858) 573-1300
POLICE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(858) 495-7800
ENVIRONMENTAL SERVICES	(REFUSE COLLECTION)	(858) 492-5060
STREET DIVISION	(TRAFFIC SIGNALS)	(619) 527-7500
METROPOLITAN TRANSIT SYSTEM (MTS)	(BUS STOPS)	(619) 238-0100 EXT. 6451
METROPOLITAN TRANSIT SYSTEM (MTS)	(TAXI ZONES)	(619) 235-2644
METROPOLITAN TRANSIT SYSTEM (MTS)	(TROLLEY LINES)	(619) 595-4930
UNDERGROUND SERVICE ALERT	(ANY EXCAVATION)	(800) 422-4133
U.S. NAVY	(32ND ST NAVAL STATION)	(619) 556-1319
SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY		(619) 400-2880

THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF STREETS.

THE CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGEMENT & FIELD SERVICES DIVISION AT (858) 627-3200 AND ARRANGE FOR INSPECTION A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK INVOLVING NIGHTTIME OR WEEKEND HOURS.

5. POSTING PARKING RESTRICTIONS: THE CONTRACTOR SHALL POST TOW-AWAY/NO PARKING SIGNS TWENTY-FOUR (24) HOURS IN ADVANCE OF PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES AND TIMES OF RESTRICTIONS. PARKING METERS SHALL BE BAGGED WHERE APPLICABLE.

6. EXCAVATIONS: EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS, ALL TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORKDAY. AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCH PLATES DURING NON-WORKING HOURS TO ENSURE THAT THEY DO NOT BECOME DISLODGED. UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES, BIKE LANES, AND PEDESTRIAN WALKWAYS IN THE RIGHT-OF-WAY EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS.

7. COVERED PEDESTRIAN WALKWAY: THE CONTRACTOR SHALL CONTACT CITY RESIDENT ENGINEER AT (619) 627-3200 FOR INSPECTION OF ANY COVERED PEDESTRIAN WALKWAY DURING CONSTRUCTION OF SUCH WALKWAY.

8. RESTORATION OF ROADWAY: THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING IMPROVEMENTS WITHIN THE RIGHT-OF-WAY NOT DESIGNATED FOR PERMANENT REMOVAL (TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) WHICH ARE DAMAGED OR REMOVED AS A RESULT OF OPERATIONS. REPAIRS AND REPLACEMENTS SHALL BE AT LEAST EQUAL TO EXISTING IMPROVEMENT.

9. PROVISION OF TEMPORARY TRAFFIC SIGNAL DETECTION: THE CONTRACTOR SHALL INSTALL CITY APPROVED TEMPORARY VIDEO OR RADAR DETECTION WHEN EXISTING TRAFFIC SIGNAL DETECTION SYSTEMS ARE DAMAGED, DISABLED, OR BECOME INEFFECTIVE DUE TO CONSTRUCTION ACTIVITIES FOR A PERIOD OF FIVE (5) OR MORE DAYS, SATISFACTORY TO THE CITY ENGINEER. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY TRAFFIC SIGNAL DETECTION EQUIPMENT AND RESTORE/INSTALL A CITY APPROVED PERMANENT VEHICLE DETECTION SYSTEM UPON COMPLETION OF CONSTRUCTION, SATISFACTORY TO THE CITY ENGINEER.

10. CHANGE IN WORK: THE CITY ENGINEER RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND TO MAKE ANY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL BE DOCUMENTED AND SUPERSEDE THESE PLANS.

11. THE CONTRACTOR SHALL SUBMIT A TRUCK HAUL ROUTE PLAN (11"X17") FOR APPROVAL PRIOR TO STARTING EXPORT OR IMPORT OF MATERIAL. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER, 3RD FLOOR, BOOTH 22, ENGINEERING DIVISION, DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO (619) 446-5150. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.

AGREEMENT DATA

APPROVAL TYPE	DESCRIPTION	APPROVAL NO.	DOCUMENT NO.	SEE SHEET NUMBER(S)

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

GENERAL NOTES FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 4 OF 187 SHEETS

FOR CITY ENGINEER ____ DATE ____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

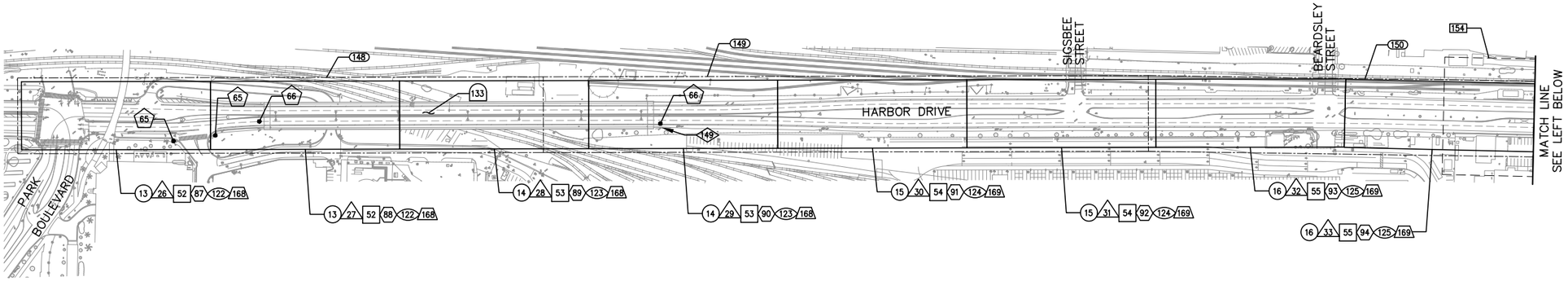
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PROJECT NO. ____
V.T.M. ____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

41370- 4 -D

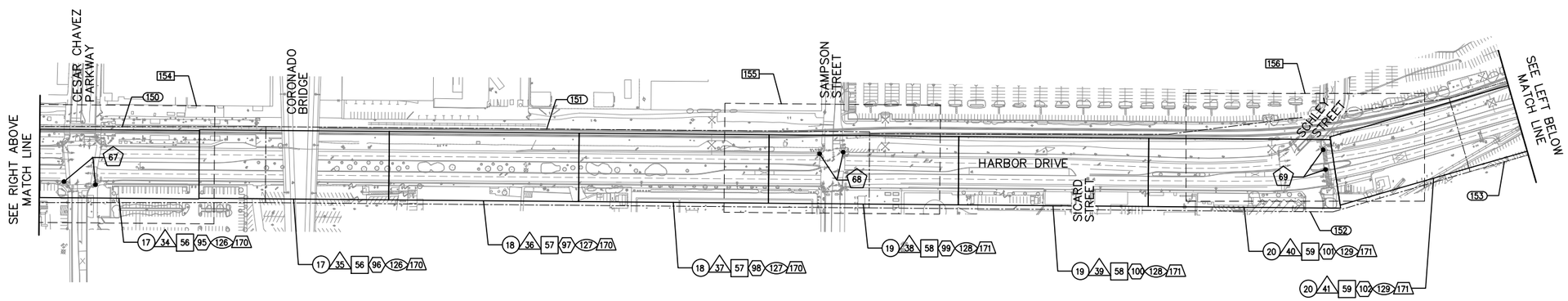
NOT FOR CONSTRUCTION – MAY 6, 2019

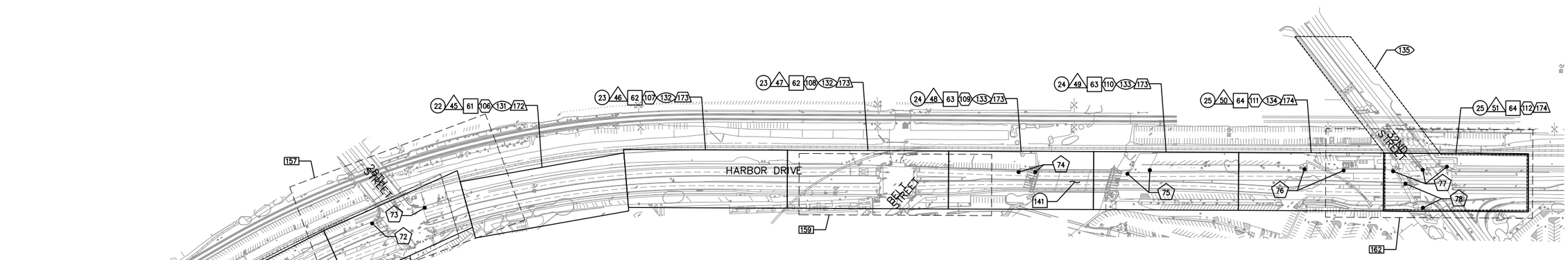
5/3/2019 2:06:48 PM



LEGEND

- DEMOLITION PLANS
- IMPROVEMENT PLANS
- PAVING PLANS
- CONSTRUCTION DETAILS
- DRAINAGE AND GRADING PLANS
- SIGNING AND STRIPING
- BRIDGE MODIFICATION PLANS
- RETAINING WALLS
- STREET LIGHTING PLANS
- TRAFFIC SIGNAL PLANS
- EROSION CONTROL





KEY MAP

1"=150'

PUBLIC CONTRACT

KEY MAP FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

811 Know what's below. Call before you dig.

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 5 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

SCALE: AS SHOWN

CONTRACT NO. –

DRAWING NO. –

SHEET NO. **41370-** 5 **-D**

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC

Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

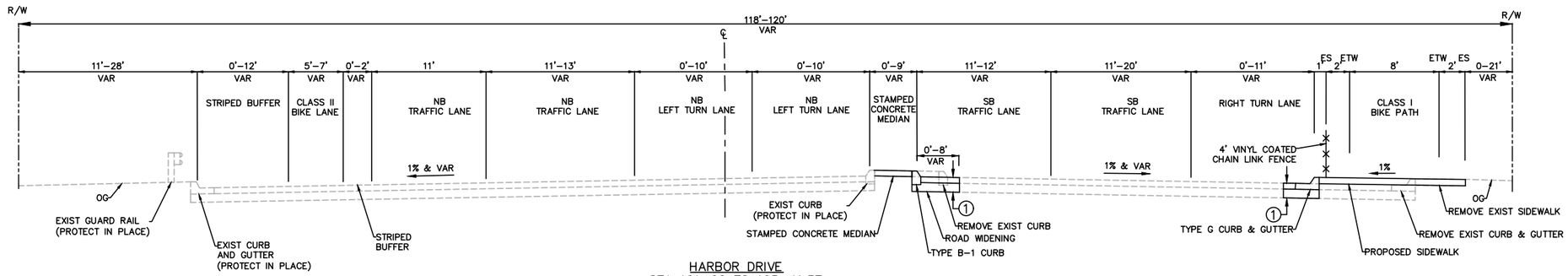
REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY	A. RIVERA	5/19
DRAWN BY	VALUE	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

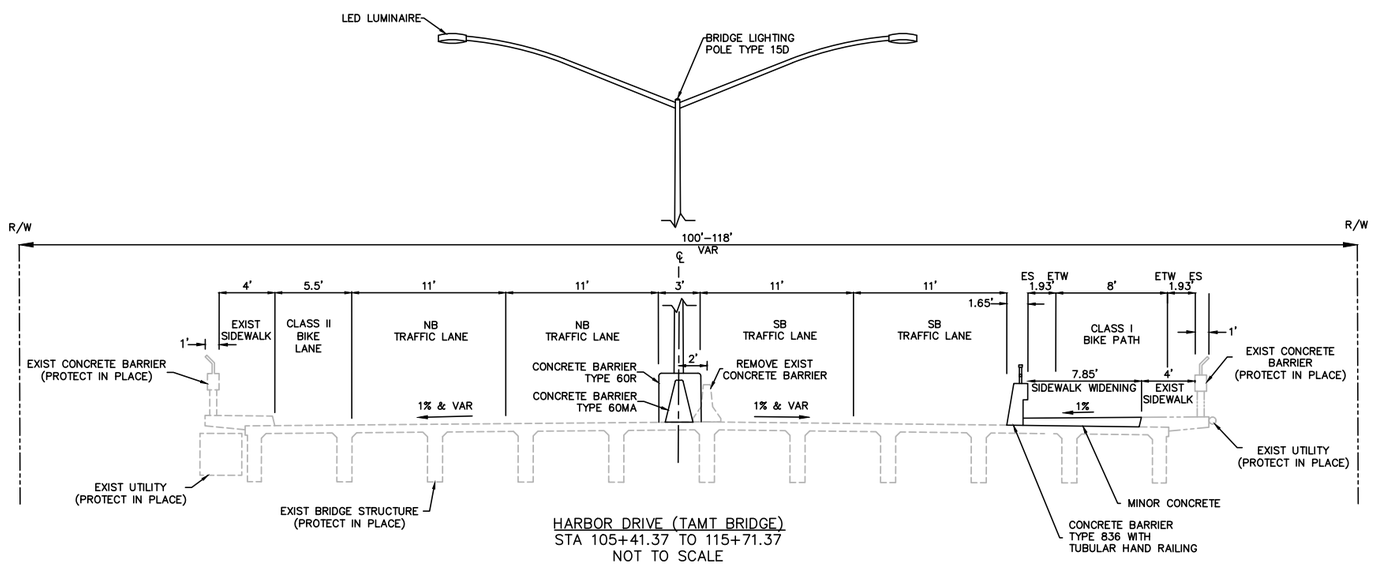
SANDAG

NOT FOR CONSTRUCTION – MAY 6, 2019

5/3/2019 2:08:37 PM



HARBOR DRIVE
STA 101+06 TO 105+41.37
NOT TO SCALE



HARBOR DRIVE (TAMT BRIDGE)
STA 105+41.37 TO 115+71.37
NOT TO SCALE

NOTES:
1. STRUCTURAL SECTION PER PAVEMENT IMPROVEMENTS PLANS.

PUBLIC CONTRACT

TYPICAL SECTIONS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 6 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

1834–6287
NAD83 COORDINATES
XXX–XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 6 -D

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No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

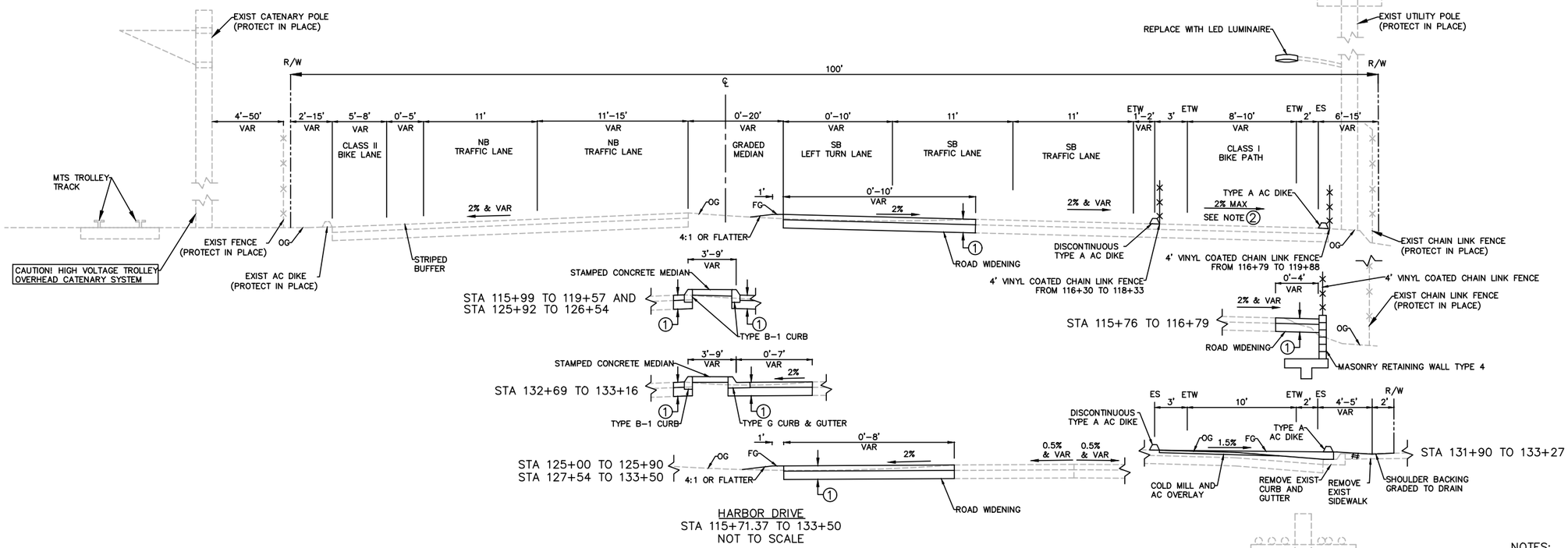
		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

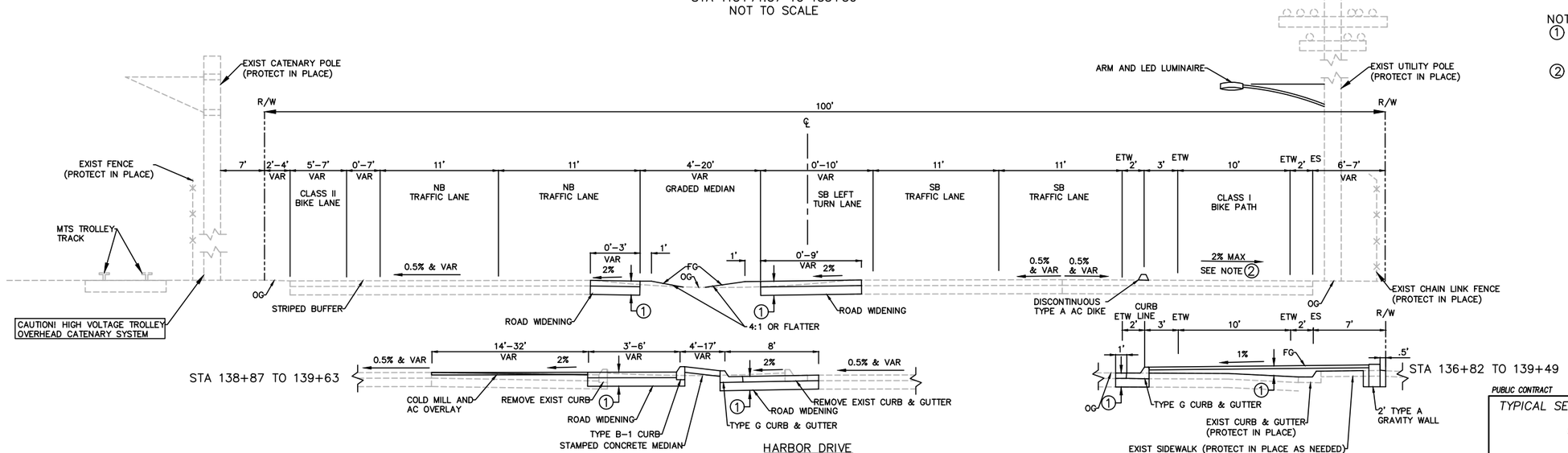
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 1:22:05 PM



HARBOR DRIVE
STA 115+71.37 TO 133+50
NOT TO SCALE



HARBOR DRIVE
STA 133+50 TO 140+20
NOT TO SCALE

NOTES:

1. STRUCTURAL SECTION PER PAVEMENT IMPROVEMENTS PLANS.
2. WHERE EXISTING CROSS SLOPE EXCEEDS 2%, PAVEMENT SHALL BE RESURFACED PER PAVEMENT IMPROVEMENT PLANS.

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

TYPICAL SECTIONS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 7 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

41370- 7 -D

0 1/2 1
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No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

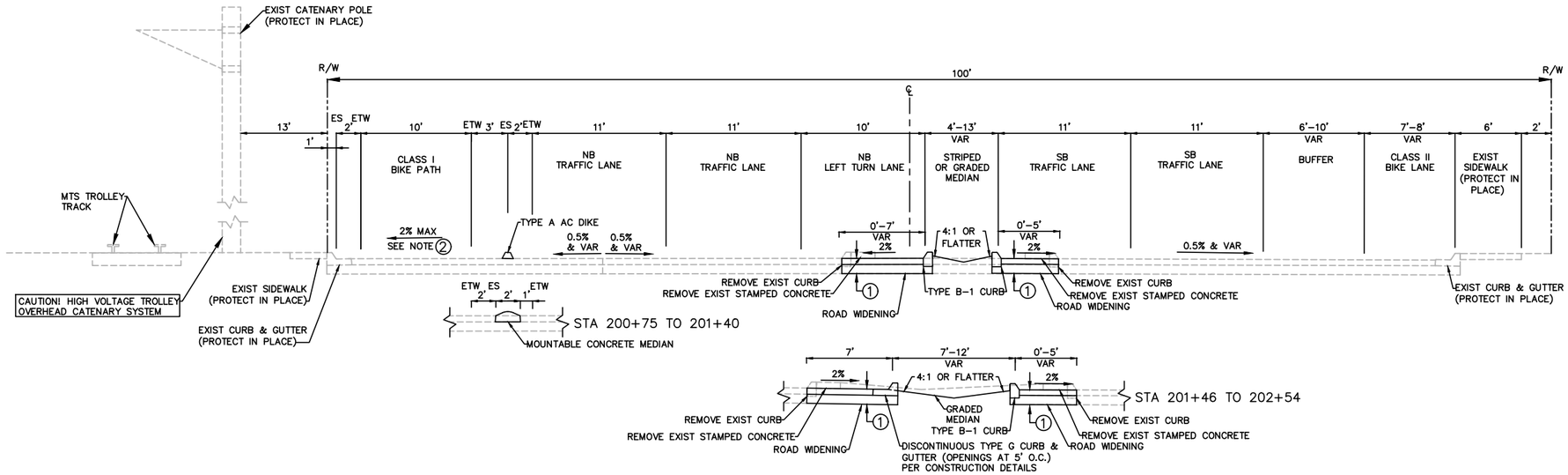
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/5/2019 1:22:24 PM

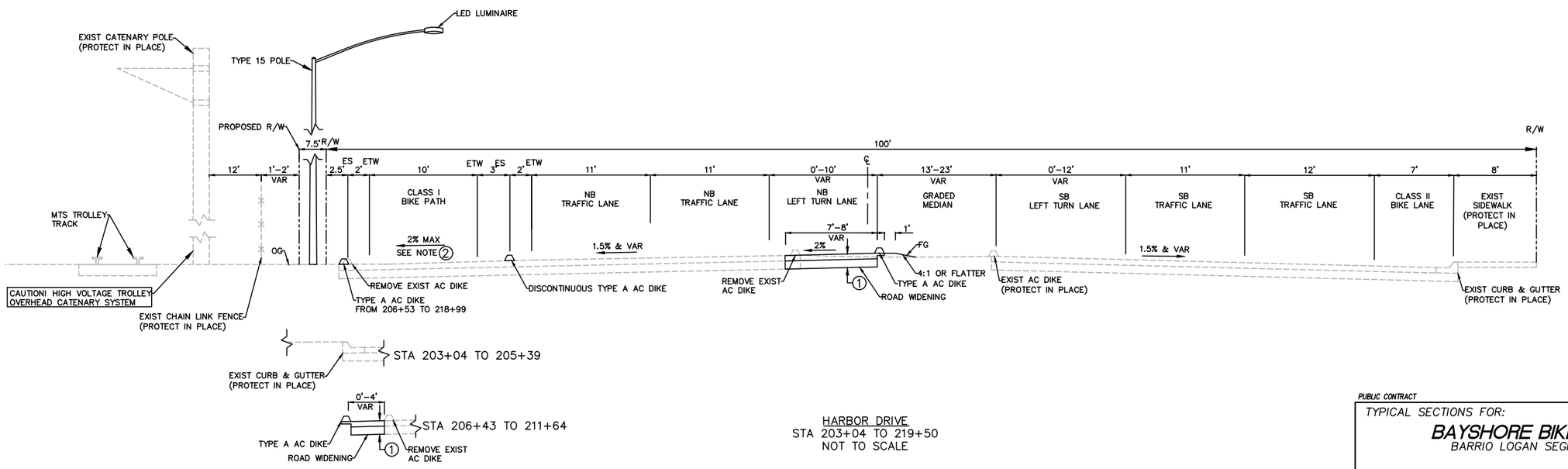
NOT FOR CONSTRUCTION – MAY 6, 2019



NOTES:

1. STRUCTURAL SECTION PER PAVEMENT IMPROVEMENTS PLANS.
2. WHERE EXISTING CROSS SLOPE EXCEEDS 2%, PAVEMENT SHALL BE RESURFACED PER PAVEMENT IMPROVEMENT PLANS.

HARBOR DRIVE
STA 200+00 TO 203+04
NOT TO SCALE



HARBOR DRIVE
STA 203+04 TO 219+50
NOT TO SCALE

PUBLIC CONTRACT

TYPICAL SECTIONS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 8 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834–6287 NAD83 COORDINATES
XXX–XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 8 -D

0 1/2 1
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STATE OF CALIFORNIA

		DATE
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SANDAG PRJ MGR	E. RODRIGUEZ	5/19

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SCALE: AS SHOWN
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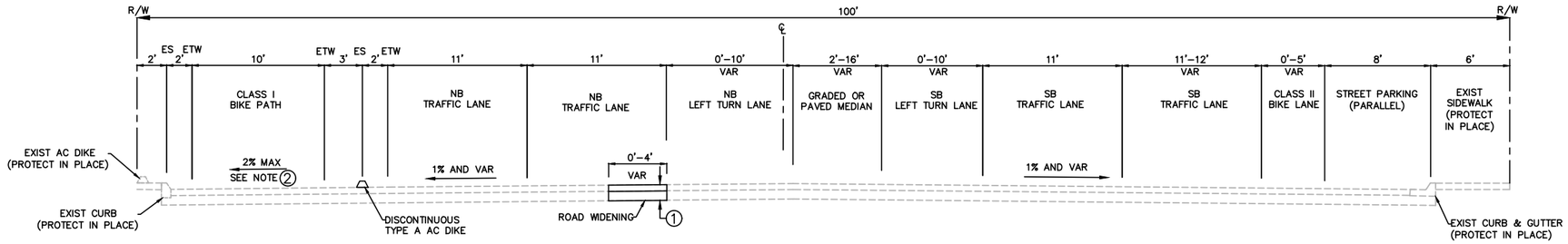
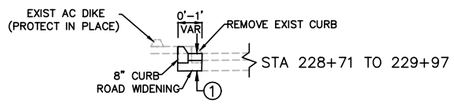
DRAWING NO. –
SHEET NO.

811 Know what's below. Call before you dig.

5/5/2019 1:22:44 PM

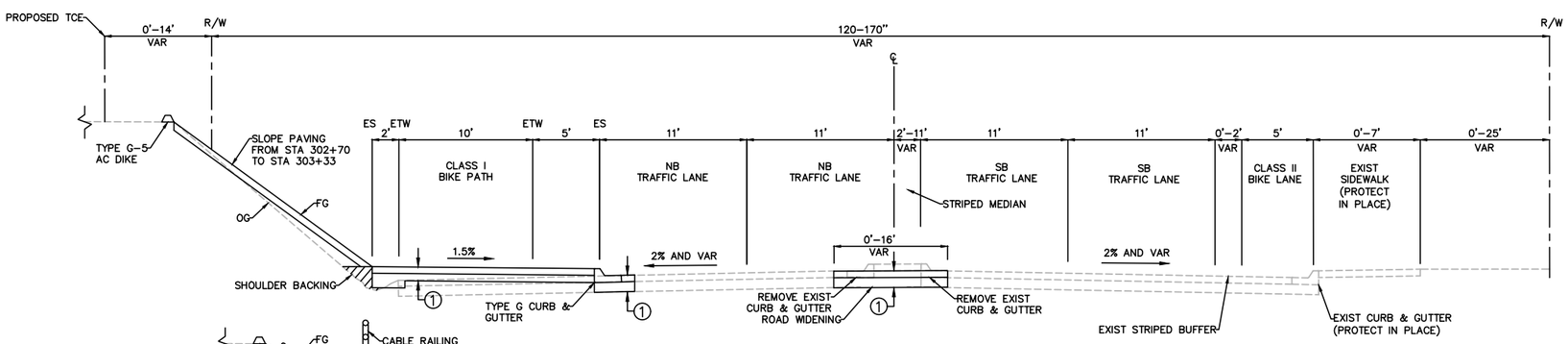
NOT FOR CONSTRUCTION – MAY 6, 2019

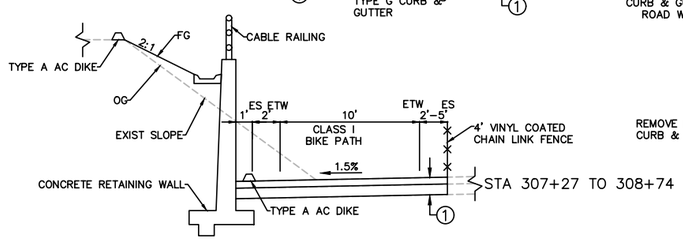


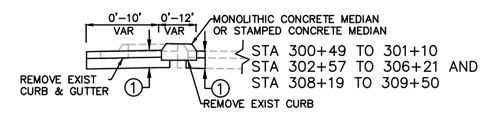


HARBOR DRIVE
STA 219+50 TO 231+90
NOT TO SCALE

NOTES:
1. STRUCTURAL SECTION PER PAVEMENT IMPROVEMENTS PLANS.
2. WHERE EXISTING CROSS SLOPE EXCEEDS 2%, PAVEMENT SHALL BE RESURFACED PER PAVEMENT IMPROVEMENT PLANS.







HARBOR DRIVE
STA 300+00 TO 309+50
NOT TO SCALE

PUBLIC CONTRACT

TYPICAL SECTIONS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 9 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834–6287
NAD83 COORDINATES
XXX–XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 9 -D

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Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

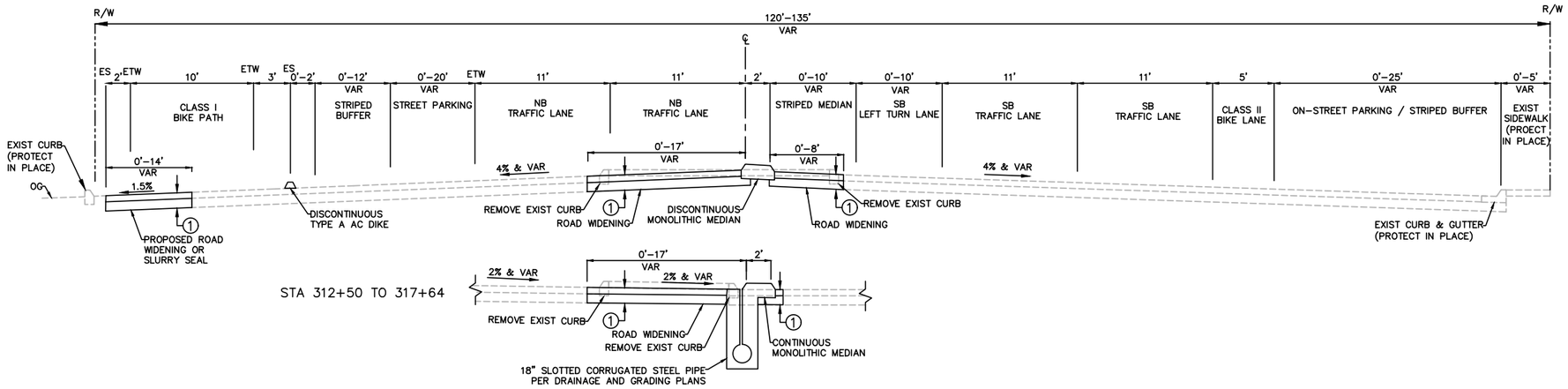
		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

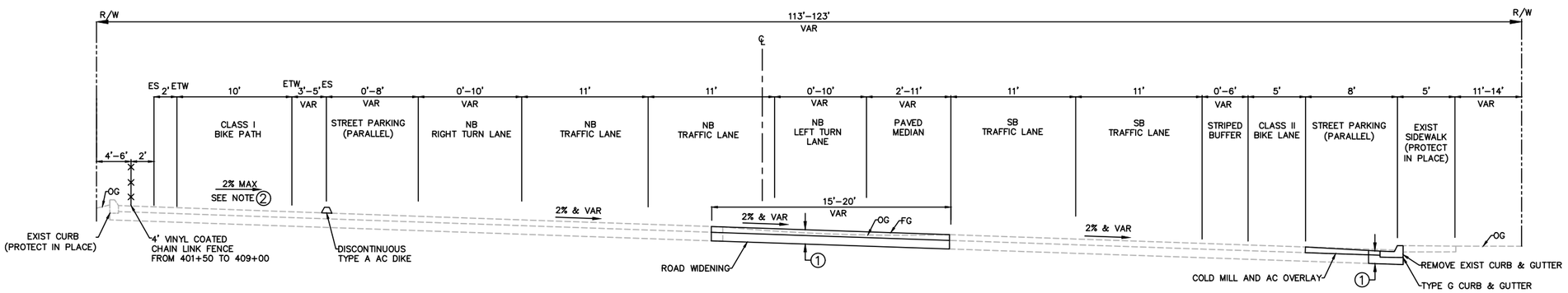
5/6/2019 7:34:31 AM

NOT FOR CONSTRUCTION – MAY 6, 2019



HARBOR DRIVE
STA 309+50 TO 318+36
NOT TO SCALE

NOTES:
1. STRUCTURAL SECTION PER PAVEMENT IMPROVEMENTS PLANS.
2. WHERE EXISTING CROSS SLOPE EXCEEDS 2%, PAVEMENT SHALL BE RESURFACED PER PAVEMENT IMPROVEMENT PLANS.



HARBOR DRIVE
STA 400+00 TO 409+97
NOT TO SCALE

PUBLIC CONTRACT

TYPICAL SECTIONS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 10 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 10 -D

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0 1/2 1
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CIVIL
STATE OF CALIFORNIA

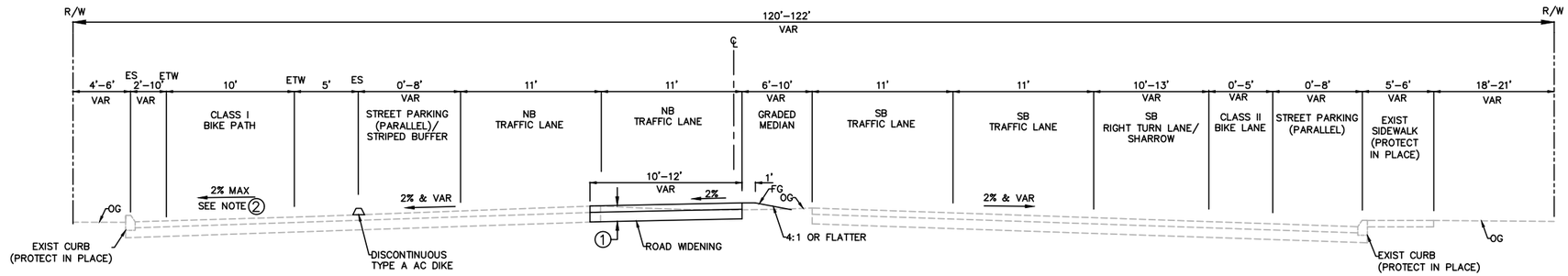
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

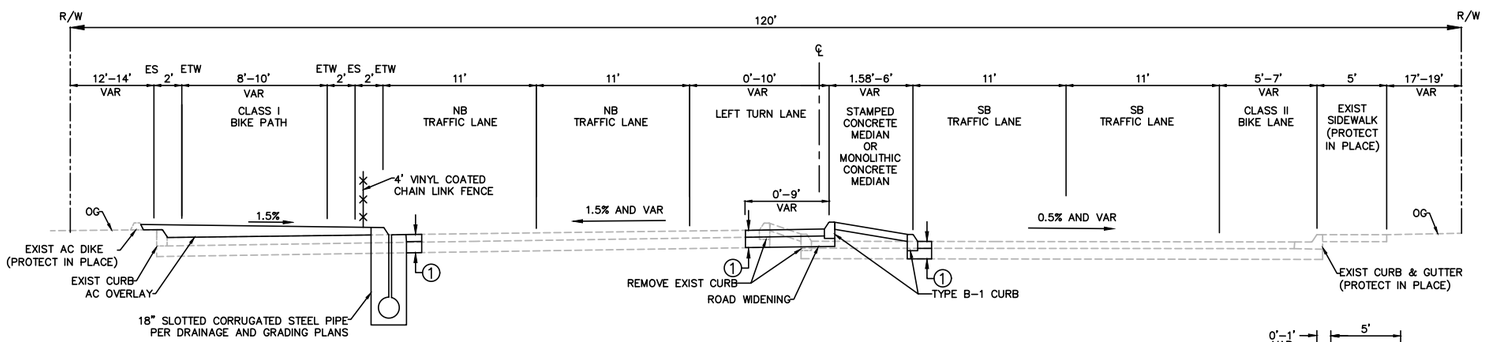
5/5/2019 1:23:23 PM

NOT FOR CONSTRUCTION – MAY 6, 2019

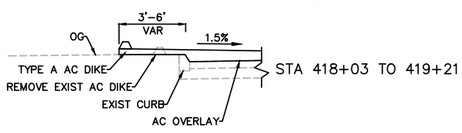


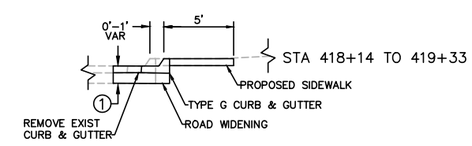
HARBOR DRIVE
STA 409+97 TO 415+50
NOT TO SCALE

NOTES:
1. STRUCTURAL SECTION PER PAVEMENT IMPROVEMENTS PLANS.
2. WHERE EXISTING CROSS SLOPE EXCEEDS 2%, PAVEMENT SHALL BE RESURFACED PER PAVEMENT IMPROVEMENT PLANS.



HARBOR DRIVE
STA 415+50 TO 419+60
NOT TO SCALE





PUBLIC CONTRACT

TYPICAL SECTIONS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 11 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834–6287 NAD83 COORDINATES
XXX–XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 11 -D

0 1/2 1
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CIVIL
STATE OF CALIFORNIA

	DATE
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CHECKED BY K. BRADBURY	5/19
SANDAG PRJ MGR E. RODRIGUEZ	5/19

SANDAG

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CONTRACT NO. –
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SHEET NO.

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5/5/2019 1:23:44 PM

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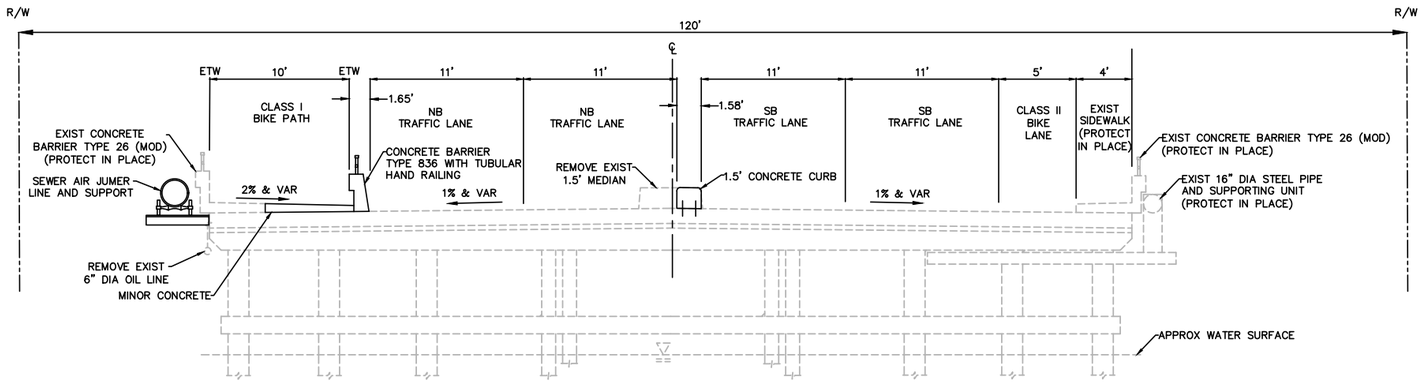
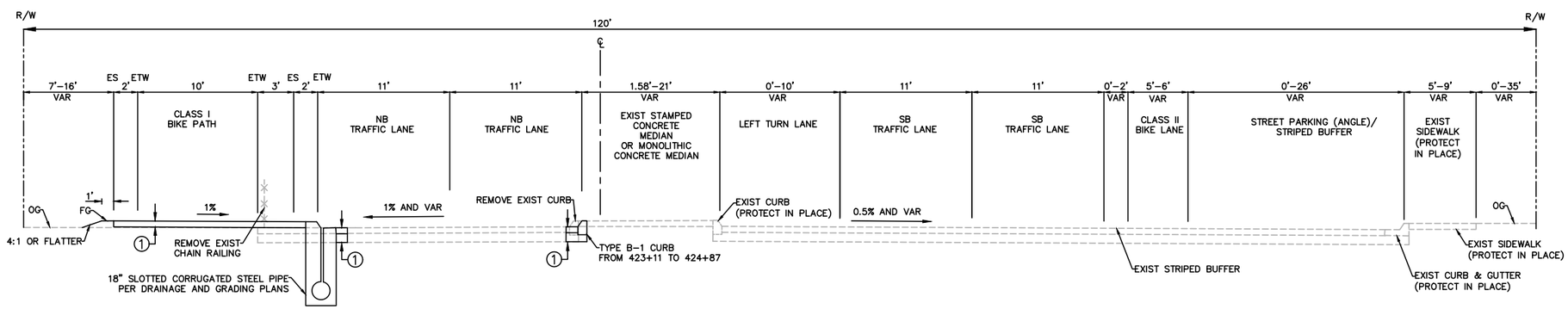


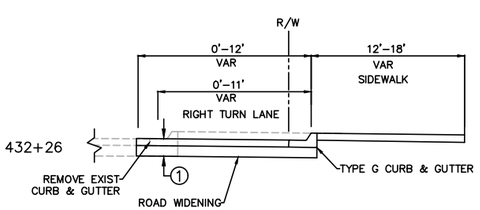
HARBOR DRIVE CHOLLAS CREEK BRIDGE
STA 419+60 TO 422+07
NOT TO SCALE

NOTES:
1. STRUCTURAL SECTION PER PAVEMENT IMPROVEMENTS PLANS.



HARBOR DRIVE
STA 422+07 TO 432+30
NOT TO SCALE

STA 430+97 TO 432+26



PUBLIC CONTRACT

TYPICAL SECTIONS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 12 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 12 -D

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5/5/2019 1:24:03 PM

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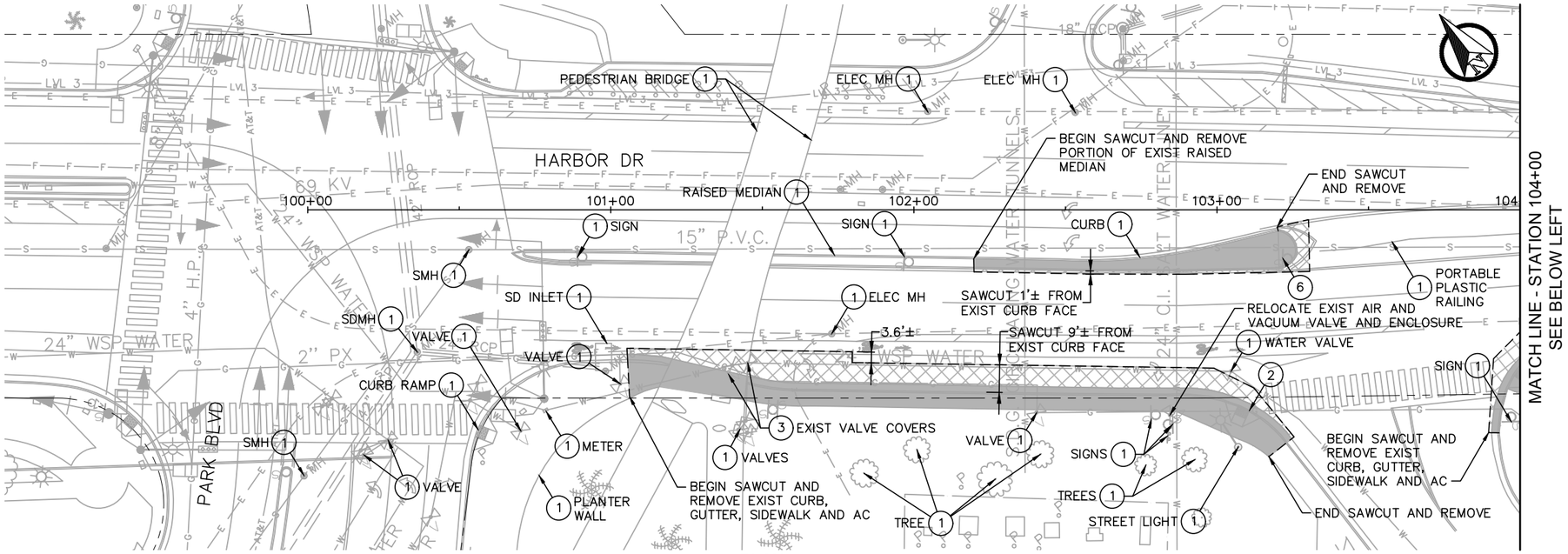
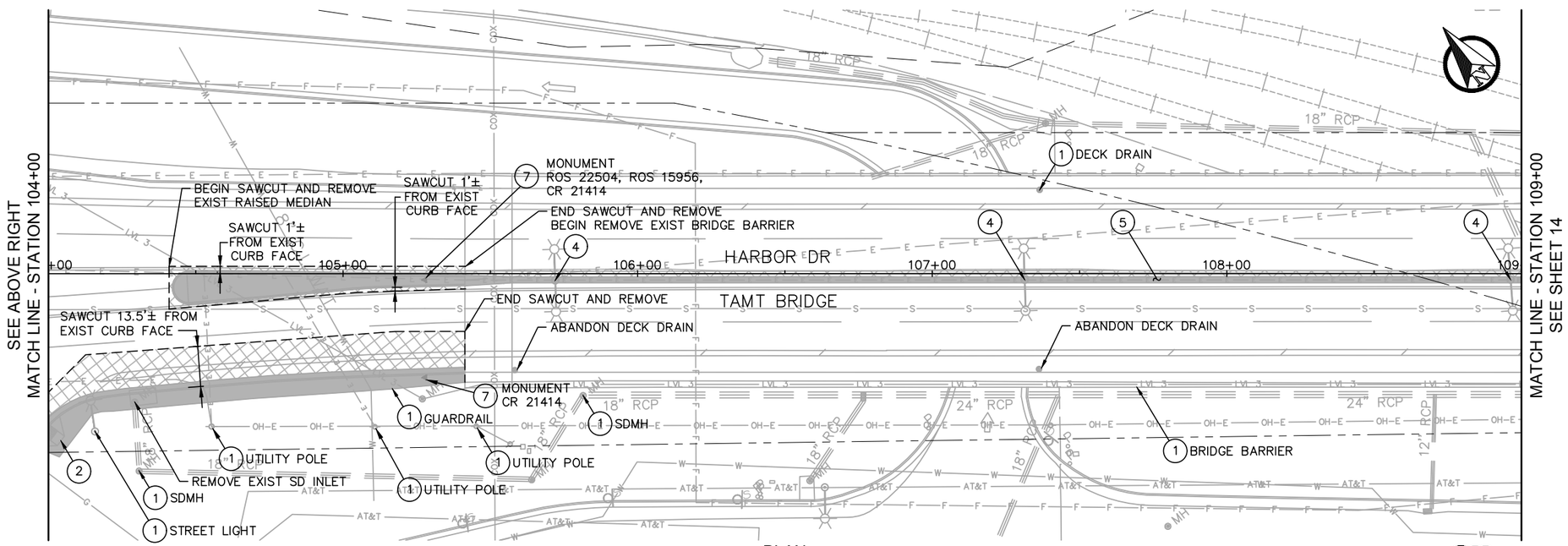


PLAN



PLAN

DEMOLITION NOTES

1. PROTECT IN PLACE
2. REMOVE EXIST CURB RAMP
3. ADJUST TO GRADE
4. REMOVE EXIST STREET LIGHT PER STREET LIGHTING SHEETS
5. REMOVE EXIST BRIDGE BARRIER PER BRIDGE MODIFICATION SHEETS
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS
7. REPLACE MONUMENT IF DESTROYED

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- SAWCUT

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

DEMOLITION PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 13 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 13 **-D**

0 1/2 1
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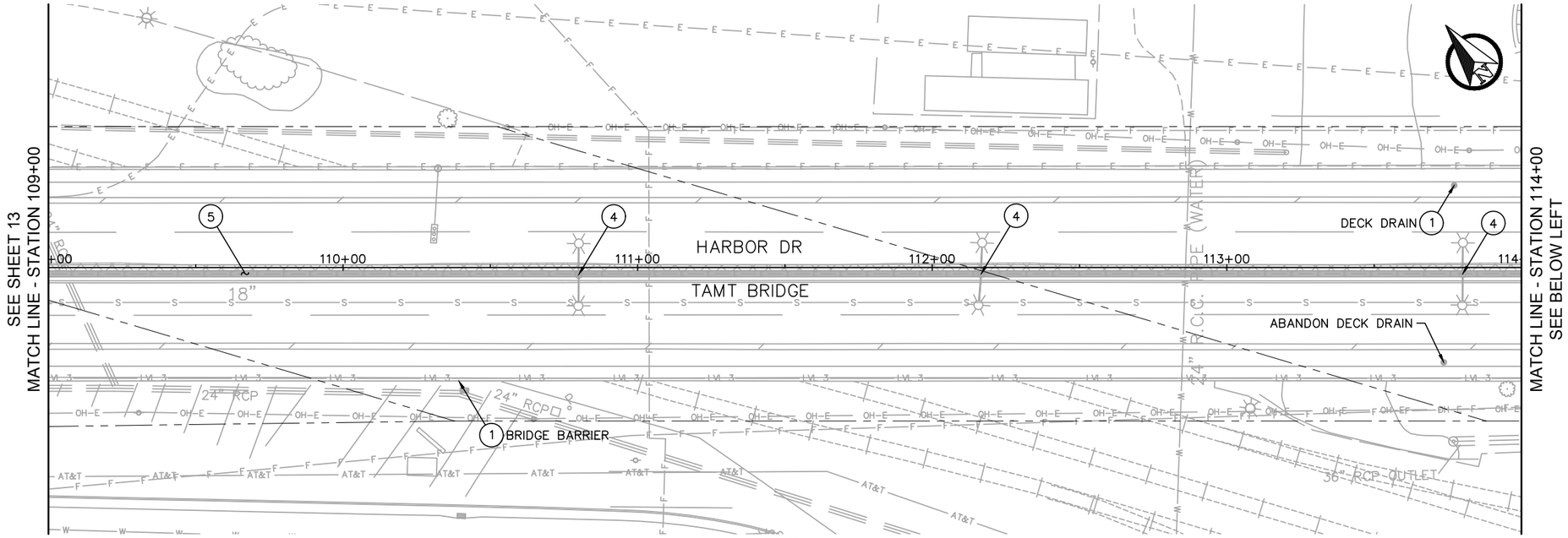
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/6/2019 10:31:53 AM

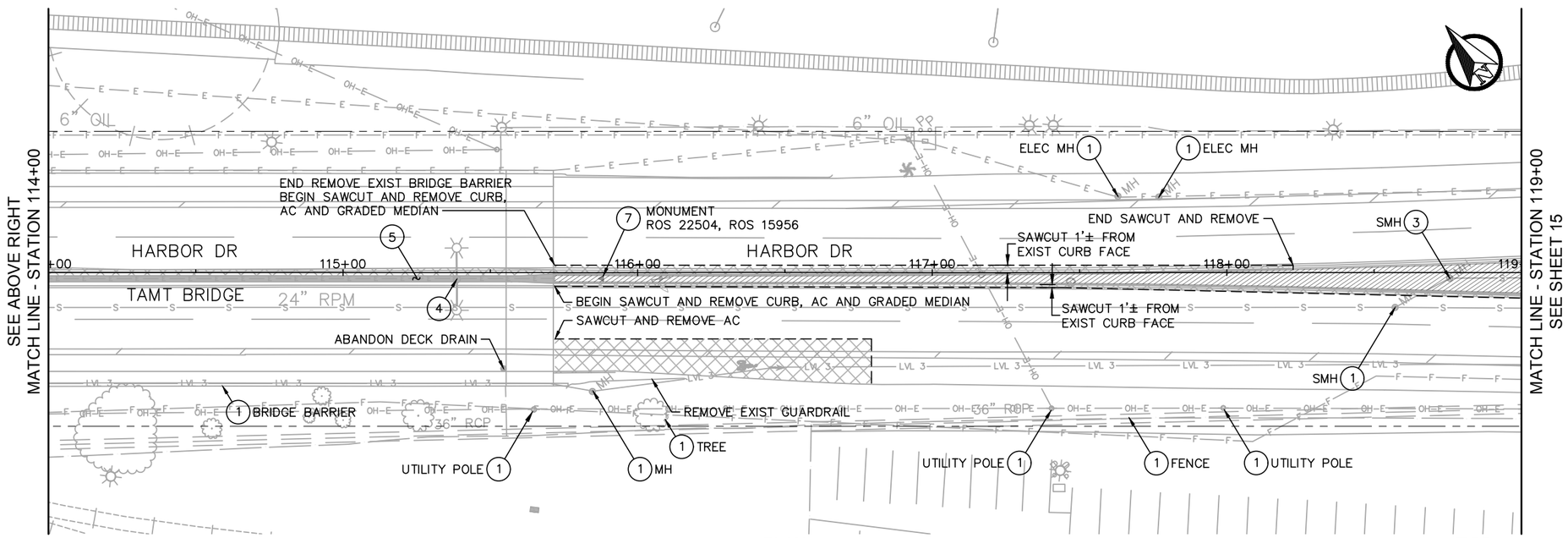
NOT FOR CONSTRUCTION – MAY 6, 2019



PLAN

DEMOLITION NOTES

1. PROTECT IN PLACE
3. ADJUST TO GRADE
4. REMOVE EXIST STREET LIGHT PER STREET LIGHTING SHEETS
5. REMOVE EXIST BRIDGE BARRIER PER BRIDGE MODIFICATION SHEETS
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS
7. REPLACE MONUMENT IF DESTROYED



PLAN

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- SAWCUT

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. DODGE	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DEMOLITION PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 14 OF 107 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

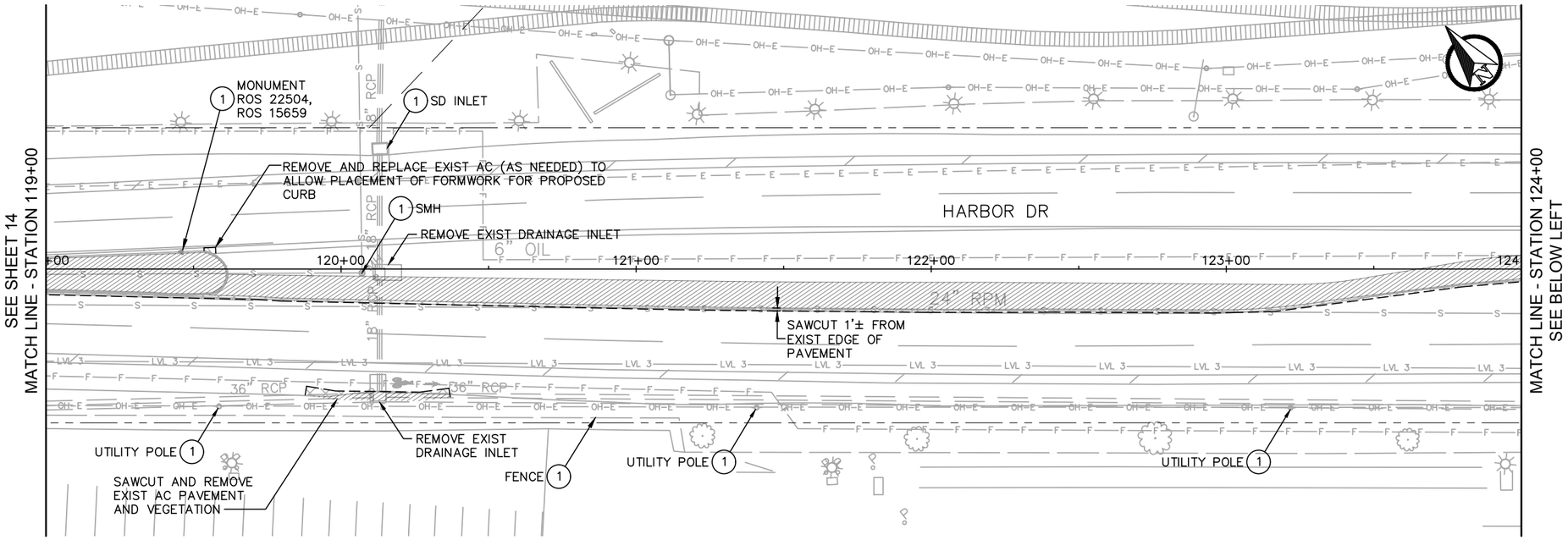
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 14 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/6/2019 10:34:37 AM



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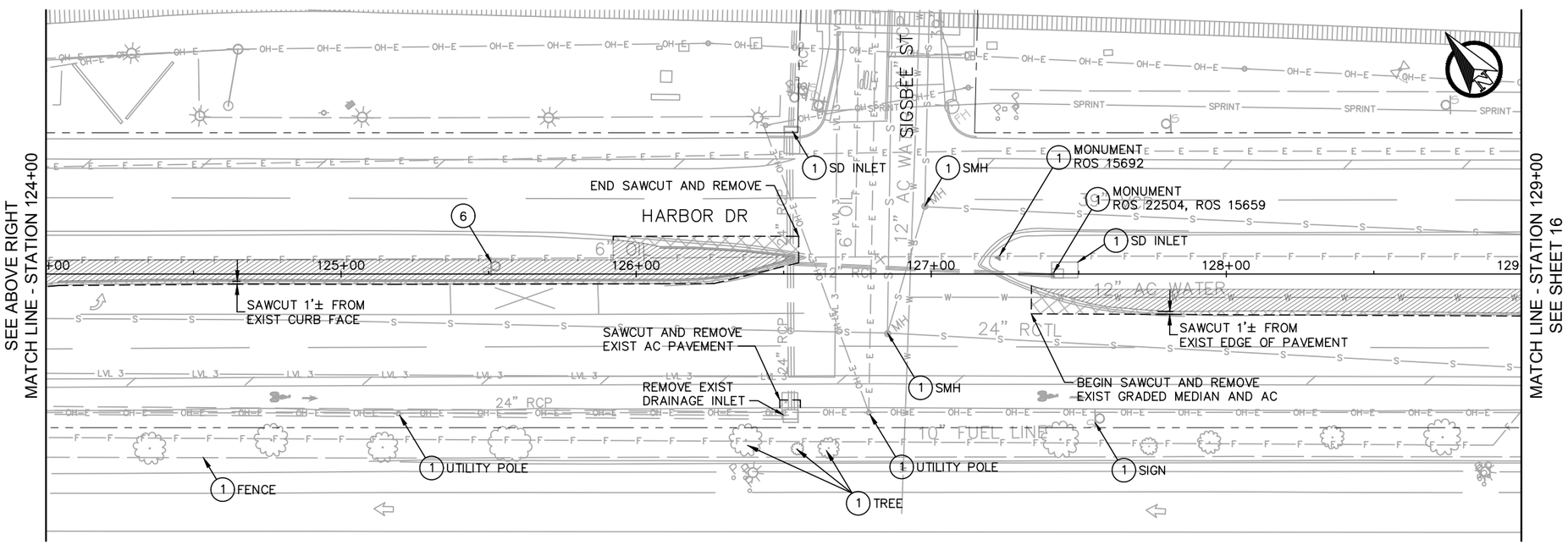

PLAN

DEMOLITION NOTES

1. PROTECT IN PLACE
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- SAWCUT

20 0 20 40 FEET
1"=20'

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0 1/2 1
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SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DEMOLITION PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 15 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

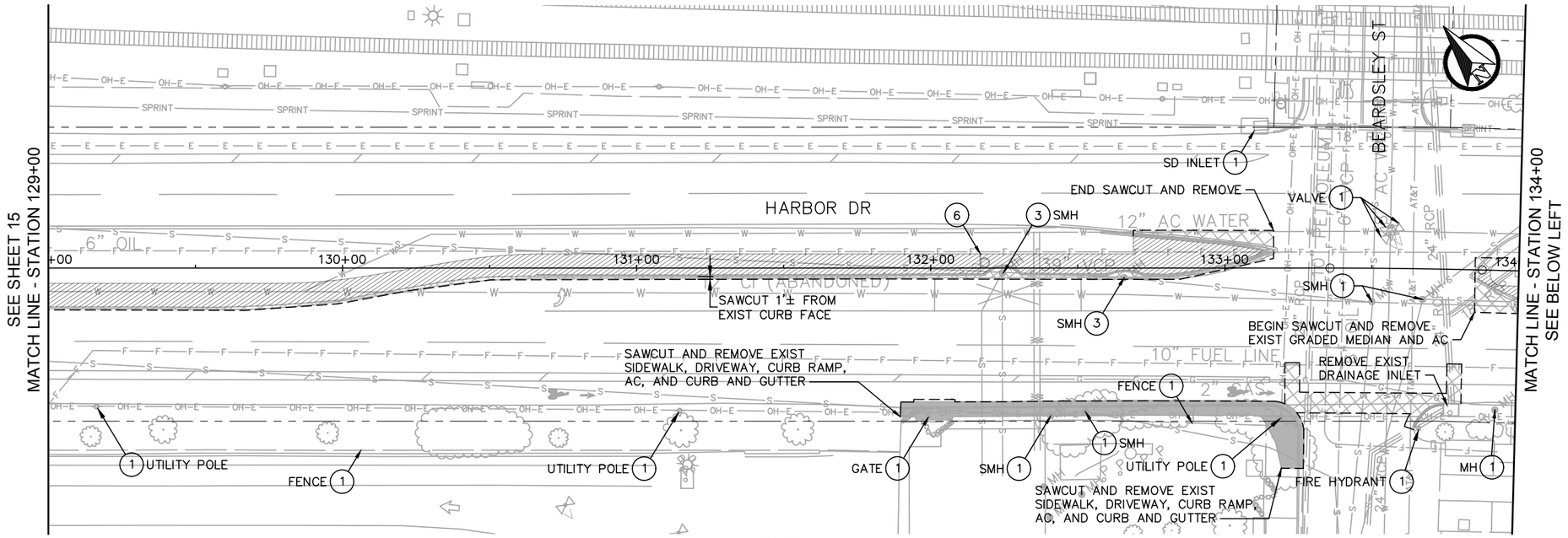
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

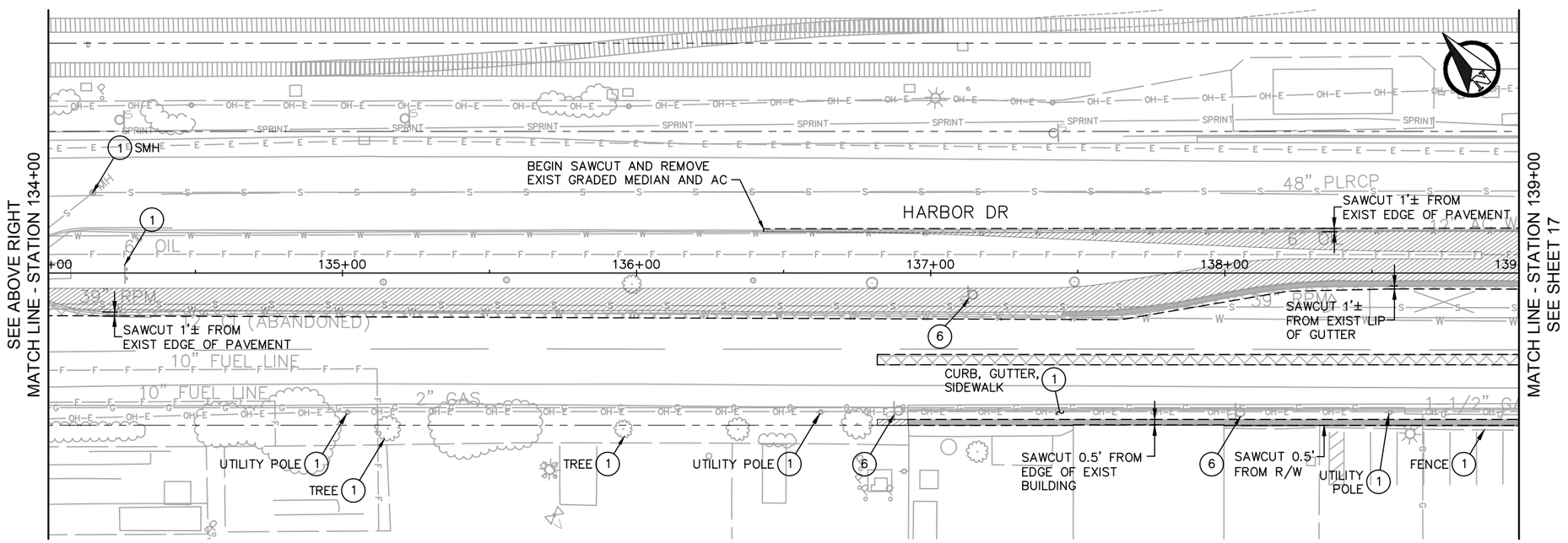
41370- 15 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/6/2019 10:37:11 AM



PLAN



PLAN

20 0 20 40 FEET
1"=20'

DEMOLITION NOTES

1. PROTECT IN PLACE
3. ADJUST TO GRADE
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- SAWCUT

PUBLIC CONTRACT

DEMOLITION PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 16 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

41370- 16 **-D**

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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5/6/2019 10:30:27 AM

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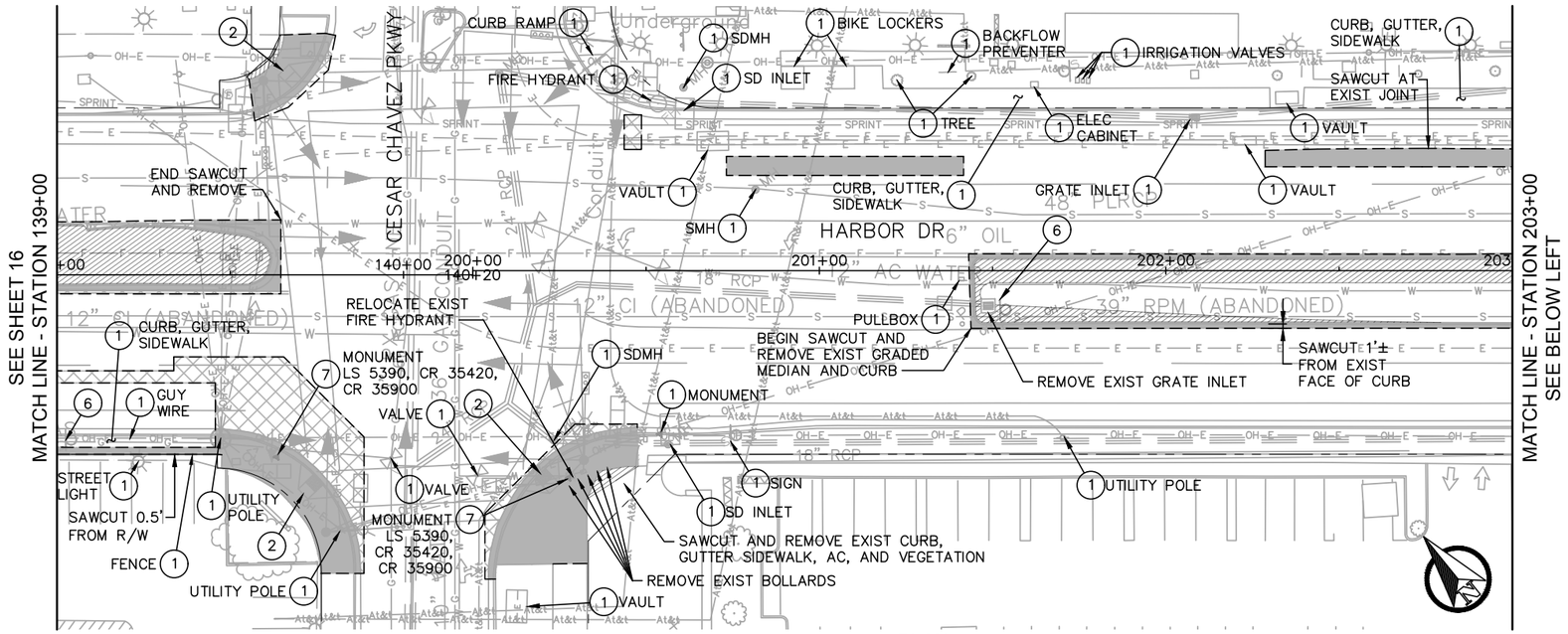
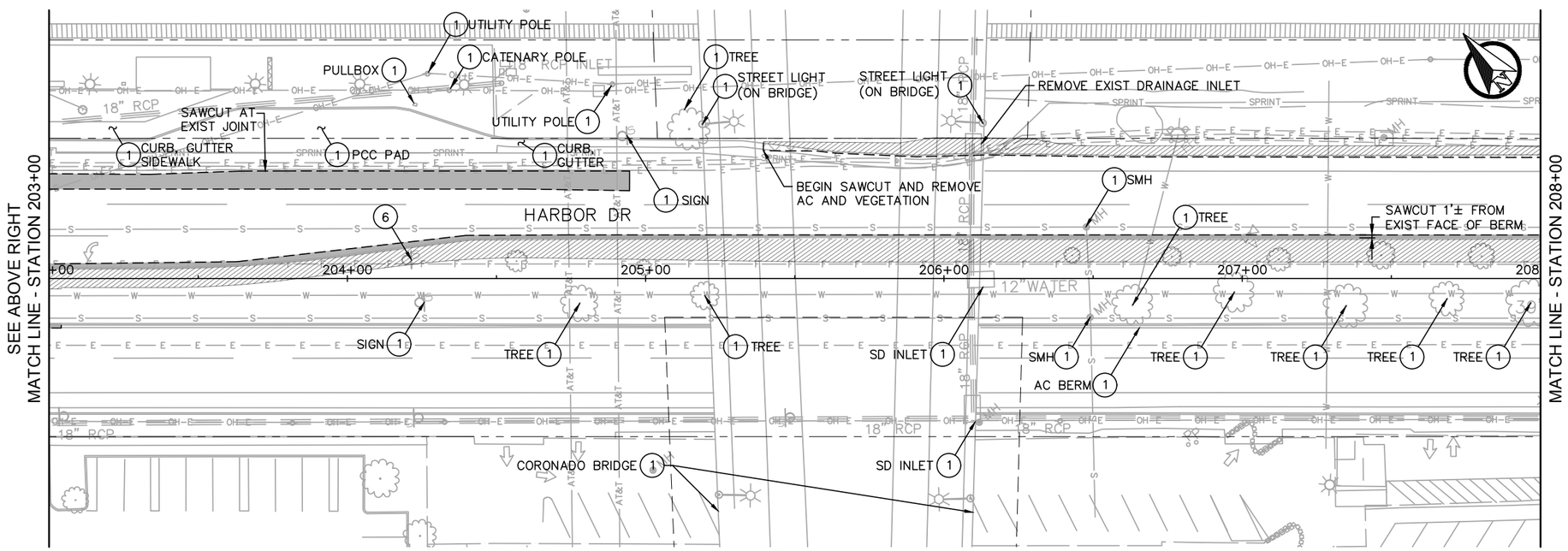


PLAN



PLAN

20 0 20 40 FEET
1"=20'

DEMOLITION NOTES

1. PROTECT IN PLACE
2. REMOVE EXIST CURB RAMP
3. ADJUST TO GRADE
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS
7. REPLACE MONUMENT IF DESTROYED

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- SAWCUT

PUBLIC CONTRACT

DEMOLITION PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 17 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES

XXX-XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 17 **-D**

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

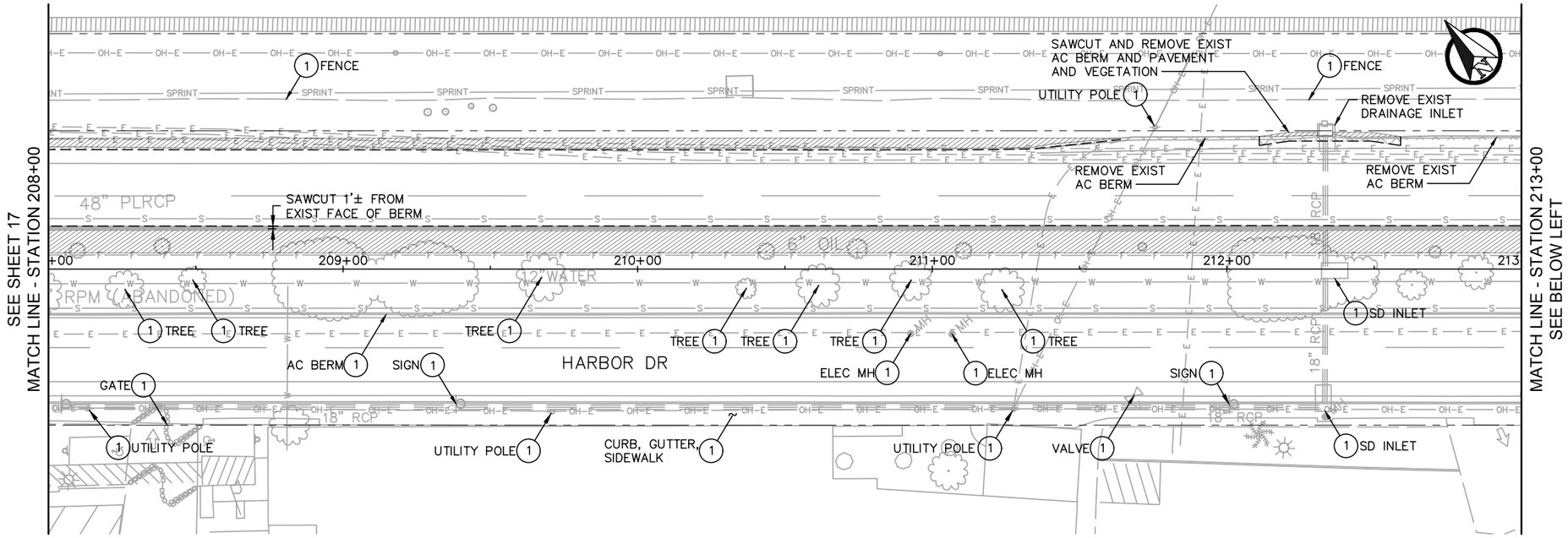
SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

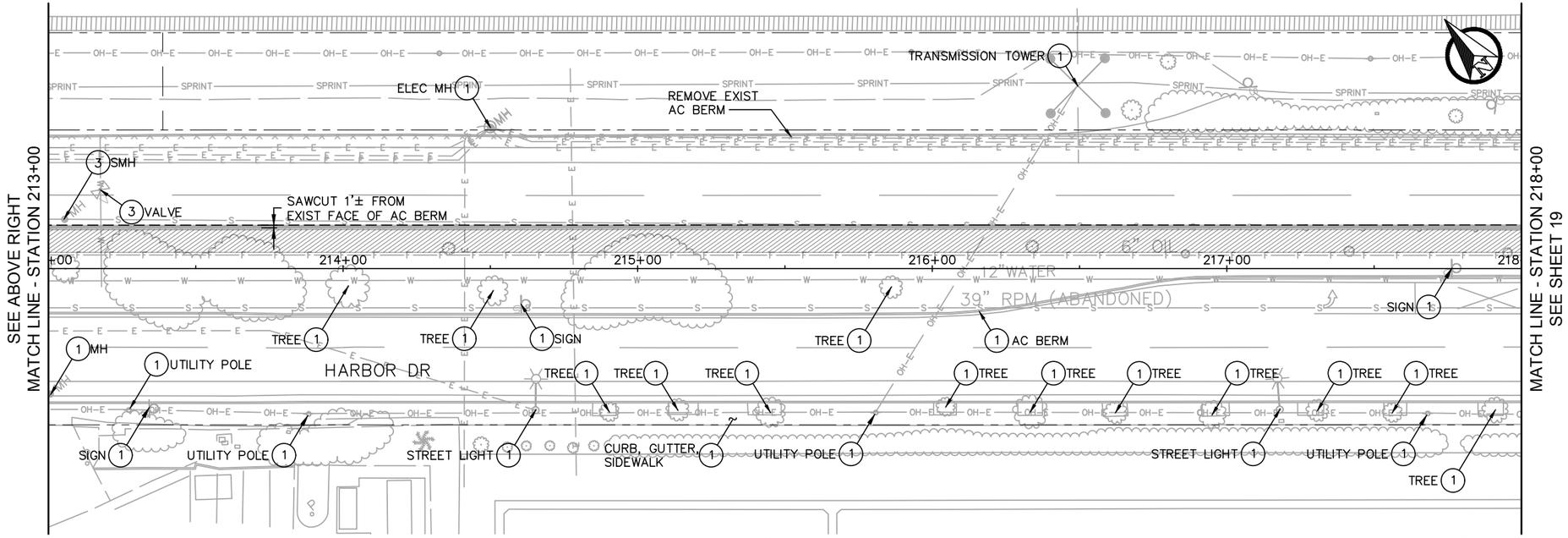
811 Know what's below. Call before you dig.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/6/2019 10:33:28 AM



PLAN



PLAN

20 0 20 40 FEET
1"=20'

DEMOLITION NOTES

1. PROTECT IN PLACE
3. ADJUST TO GRADE
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- SAWCUT

PUBLIC CONTRACT

DEMOLITION PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 18 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

41370- 18 **-D**

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
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Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19
DRAWN BY A. DODGE	5/19
CHECKED BY K. BRADBURY	5/19
SANDAG PRJ MGR E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

811 Know what's below. Call before you dig.

5/6/2019 10:36:37 AM

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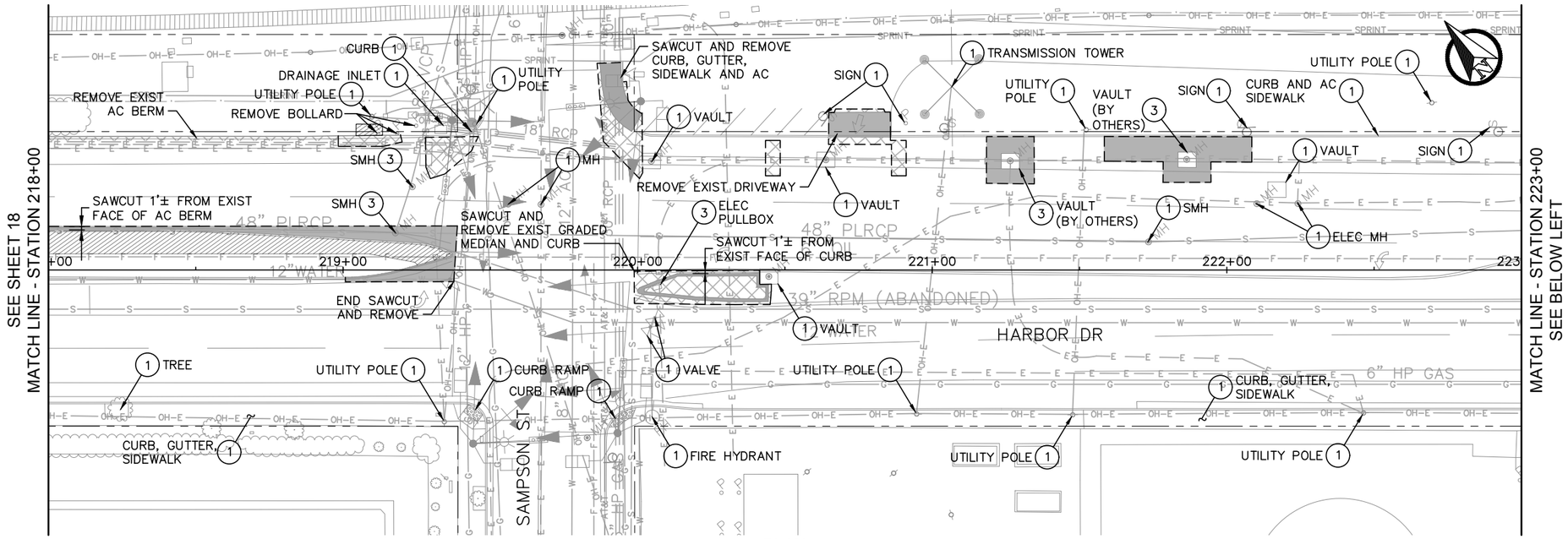

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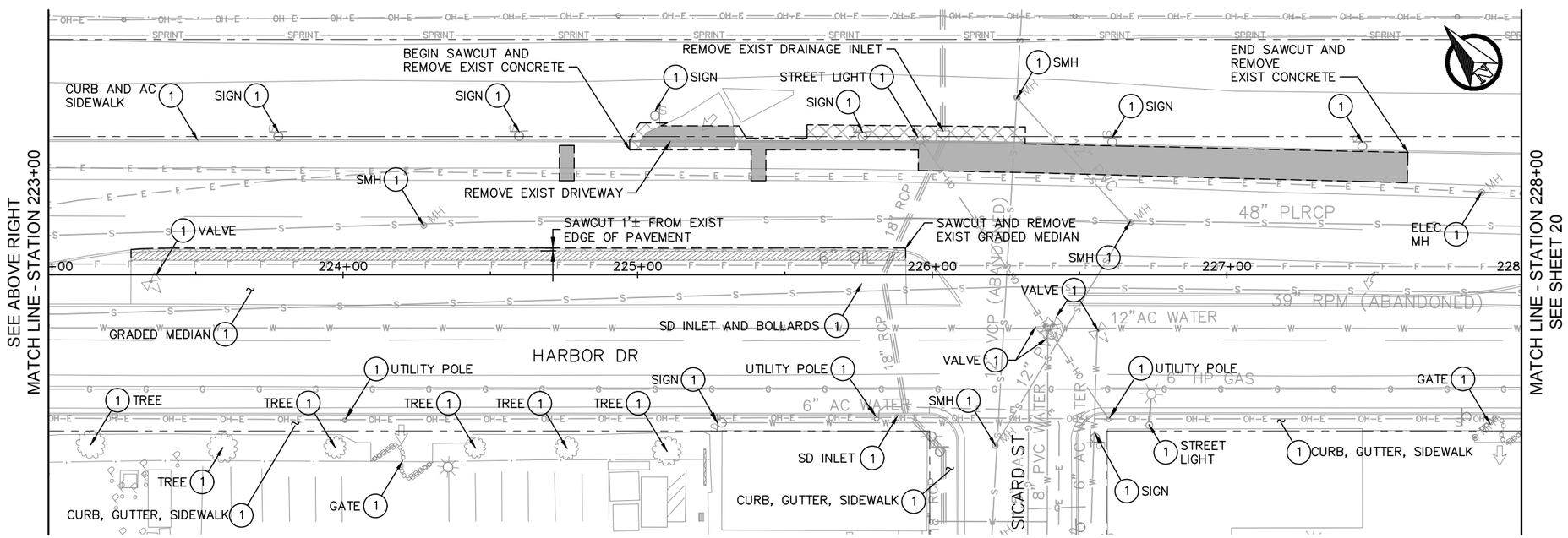

PLAN

DEMOLITION NOTES

1. PROTECT IN PLACE
3. ADJUST TO GRADE
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- SAWCUT

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

0 1/2 1
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La Mesa, CA 91942
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. DODGE	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DEMOLITION PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 19 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 19 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

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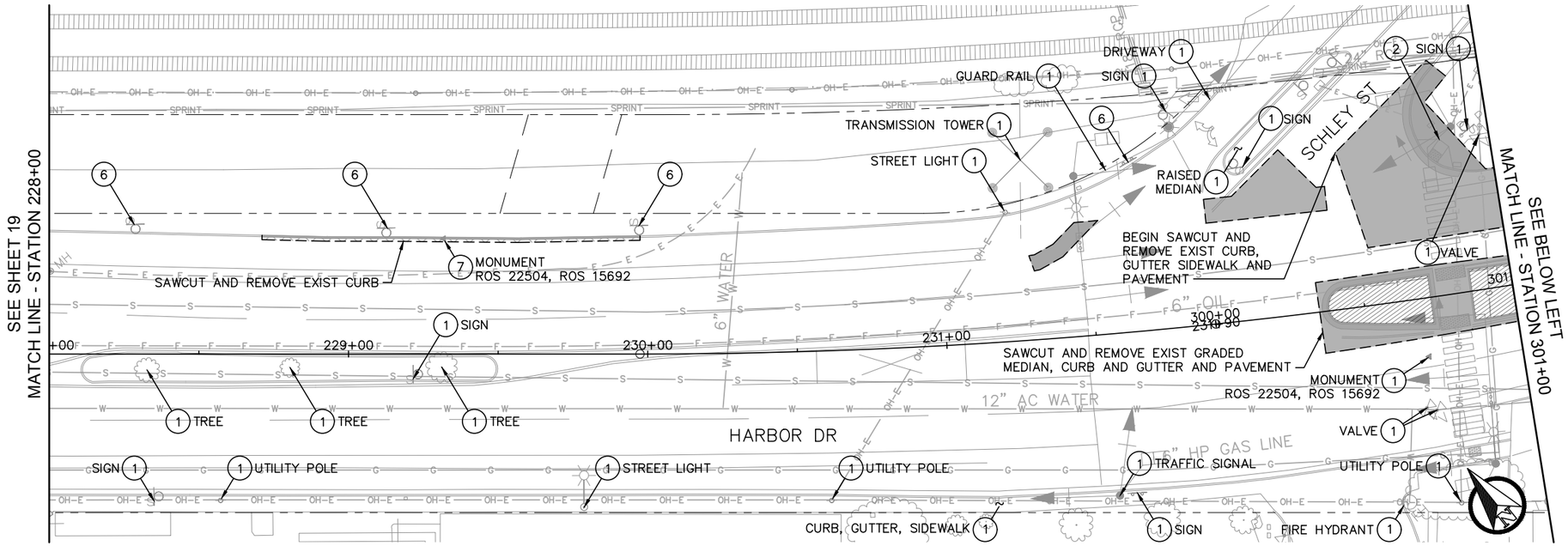
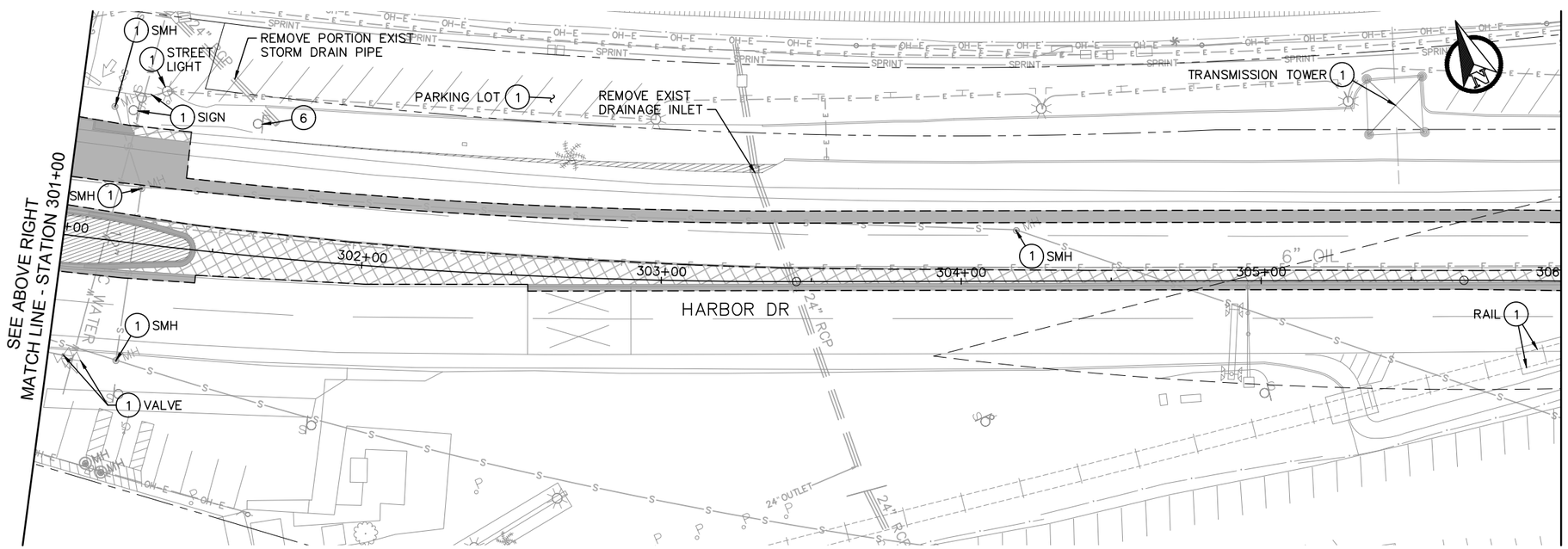


PLAN

DEMOLITION NOTES

1. PROTECT IN PLACE
2. REMOVE EXIST CURB RAMP
3. ADJUST TO GRADE
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS
7. REPLACE MONUMENT IF DESTROYED



PLAN

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- SAWCUT

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

DEMOLITION PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 20 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 20-**D**

0 1/2 1
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CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
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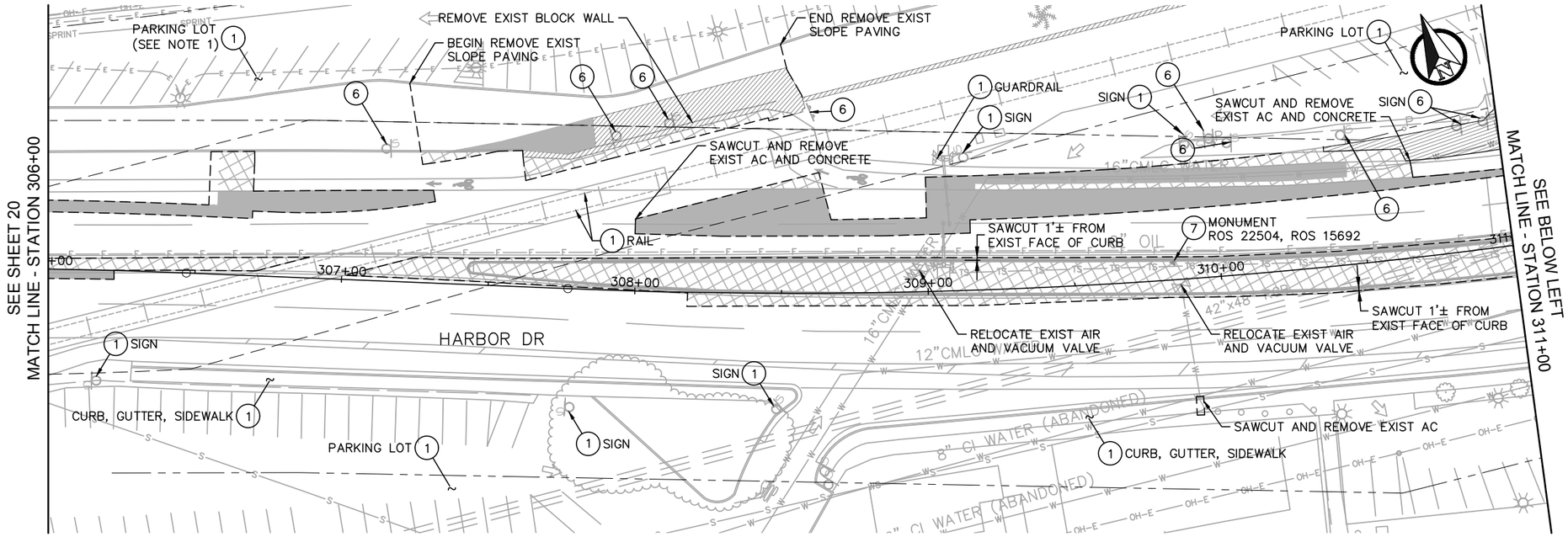
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

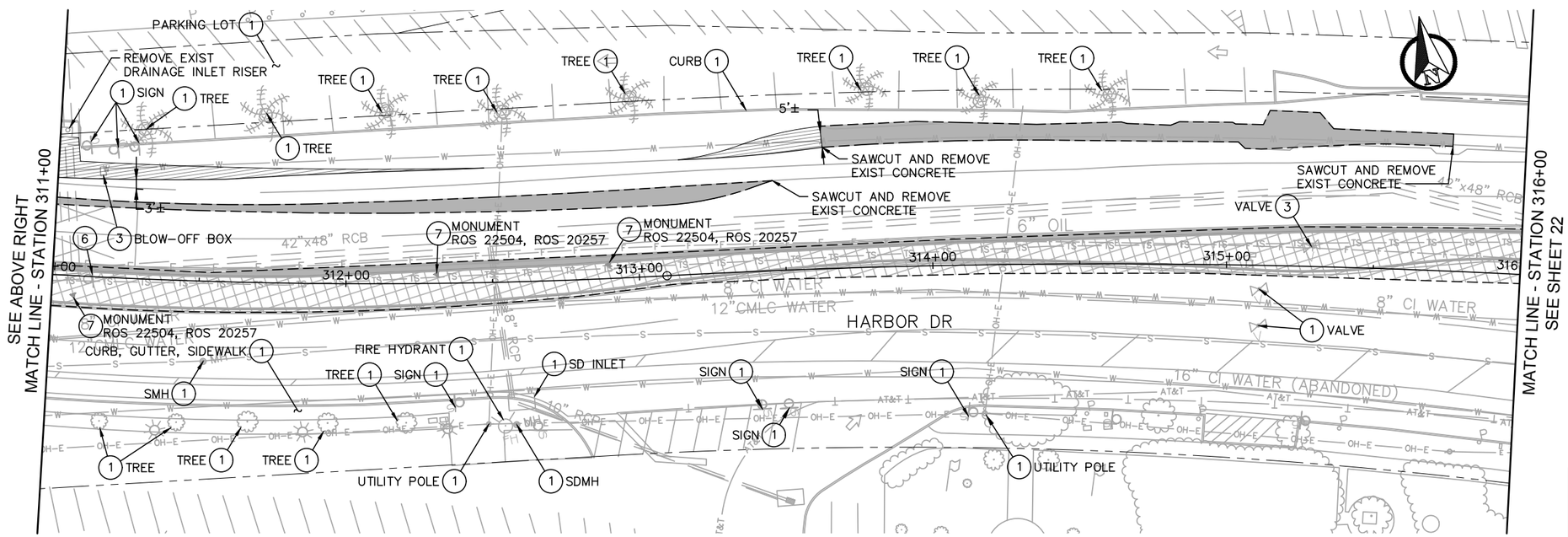
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/6/2019 11:14:21 AM

NOT FOR CONSTRUCTION – MAY 6, 2019



PLAN



PLAN

DEMOLITION NOTES

1. PROTECT IN PLACE
3. ADJUST TO GRADE
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS
7. REPLACE MONUMENT IF DESTROYED

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- SAWCUT

NOTES

1. ANY PORTION OF THE EXISTING PARKING LOT REMOVED FOR CONSTRUCTION OF PROPOSED RETAINING WALL SHALL BE REPLACED TO MATCH EXISTING PAVEMENT SECTION.

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

0 1/2 1
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619-741-9400
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No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. DODGE	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DEMOLITION PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 21 OF 187 SHEETS

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

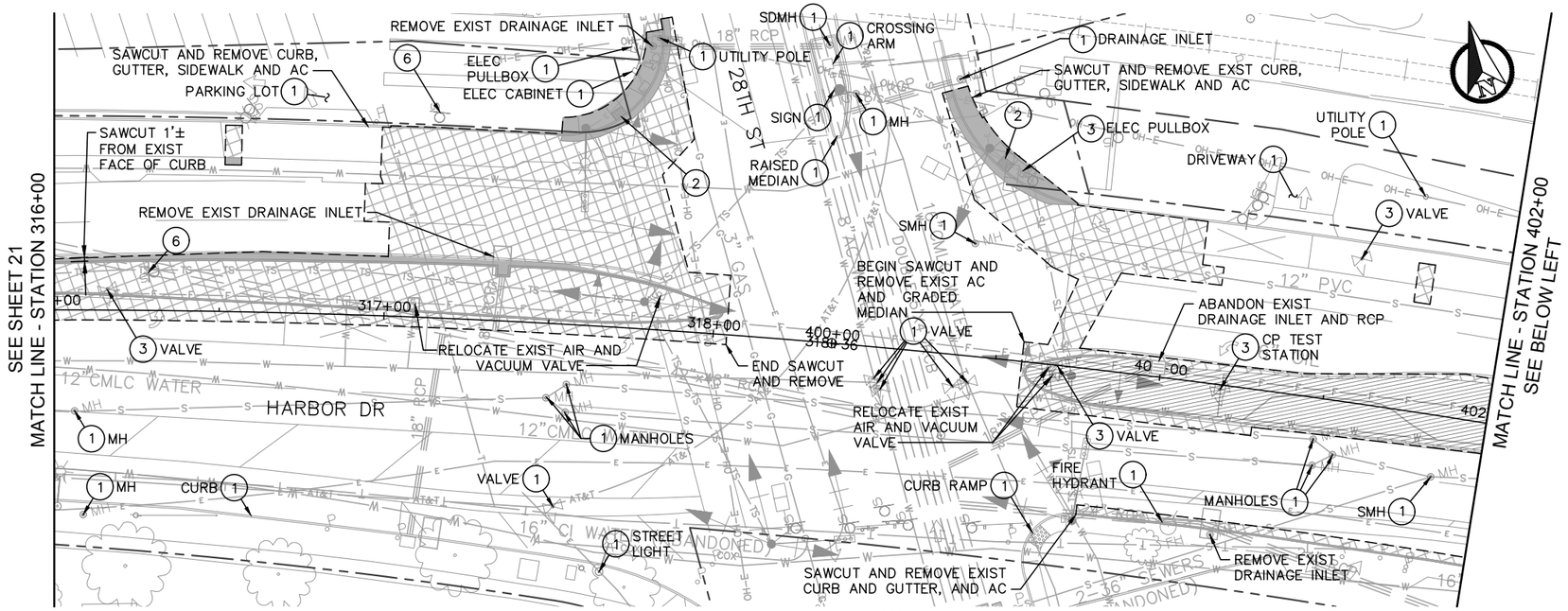
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

PROJECT NO. ____
V.T.M. ____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

41370- 21 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

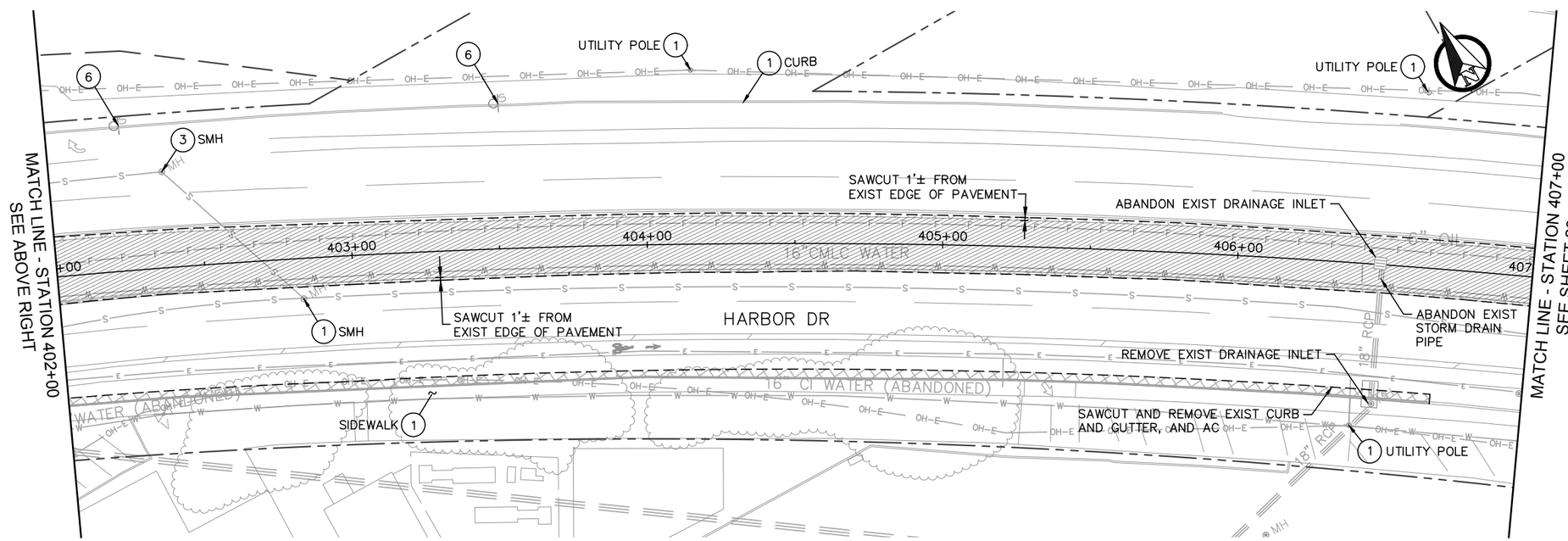
5/6/2019 11:17:19 AM



PLAN

DEMOLITION NOTES

1. PROTECT IN PLACE
2. REMOVE EXIST CURB RAMP
3. ADJUST TO GRADE
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS



PLAN

20 0 20 40 FEET
1"=20'

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- SAWCUT

PUBLIC CONTRACT

DEMOLITION PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 22 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 22-D

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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7777 Alvarado Road, Suite 606
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Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

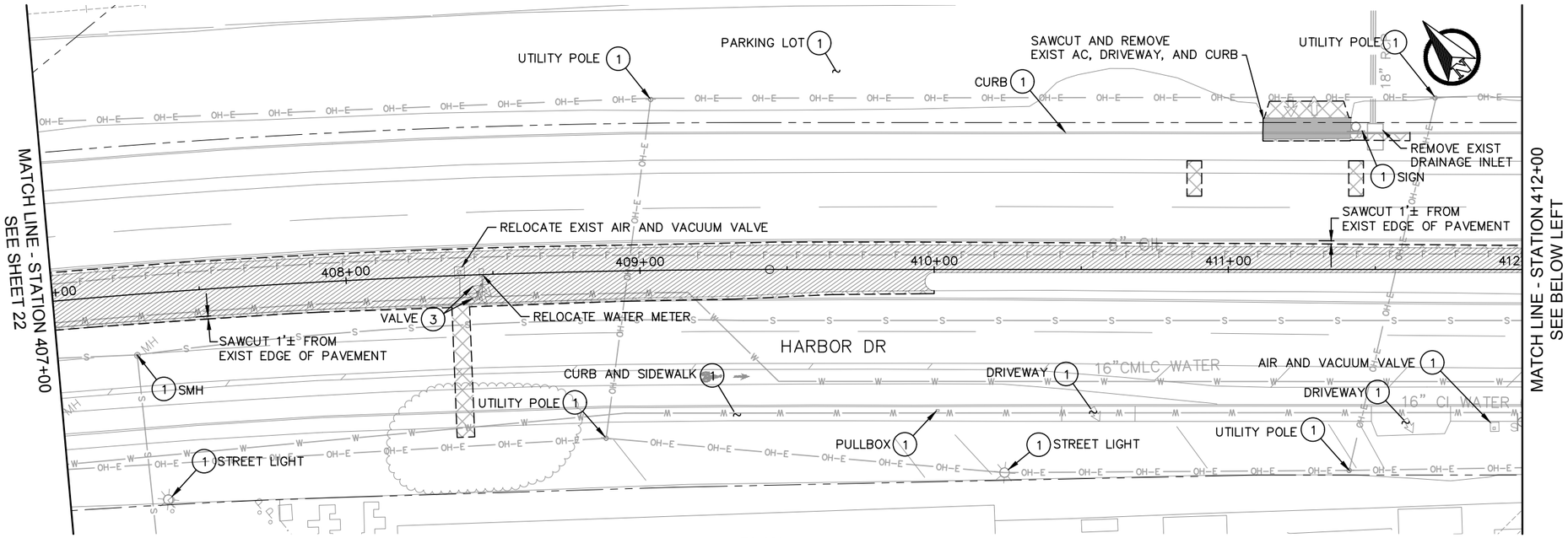
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

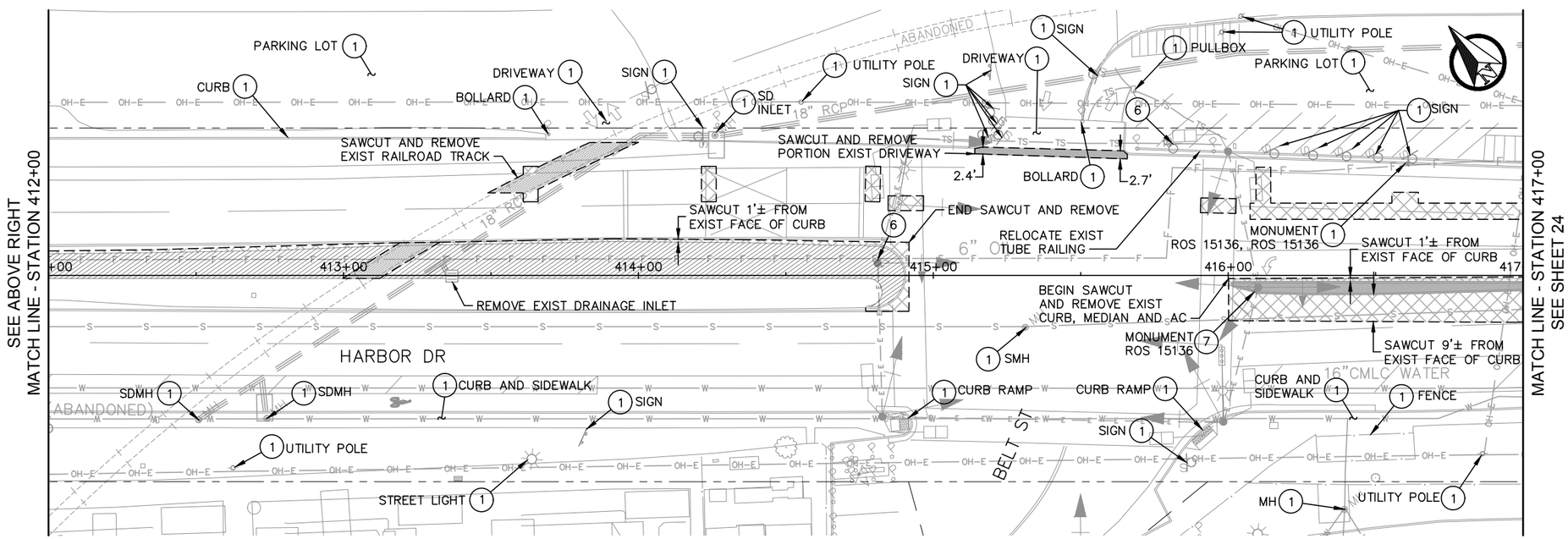
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/6/2019 11:20:24 AM



PLAN



PLAN

DEMOLITION NOTES

1. PROTECT IN PLACE
3. ADJUST TO GRADE
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS
7. REPLACE MONUMENT IF DESTROYED

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- REMOVE EXIST RAILROAD TRACK PER PROJECT SPECIFICATIONS
- SAWCUT

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. DODGE	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DEMOLITION PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 23 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 23-D

NOT FOR CONSTRUCTION – MAY 6, 2019

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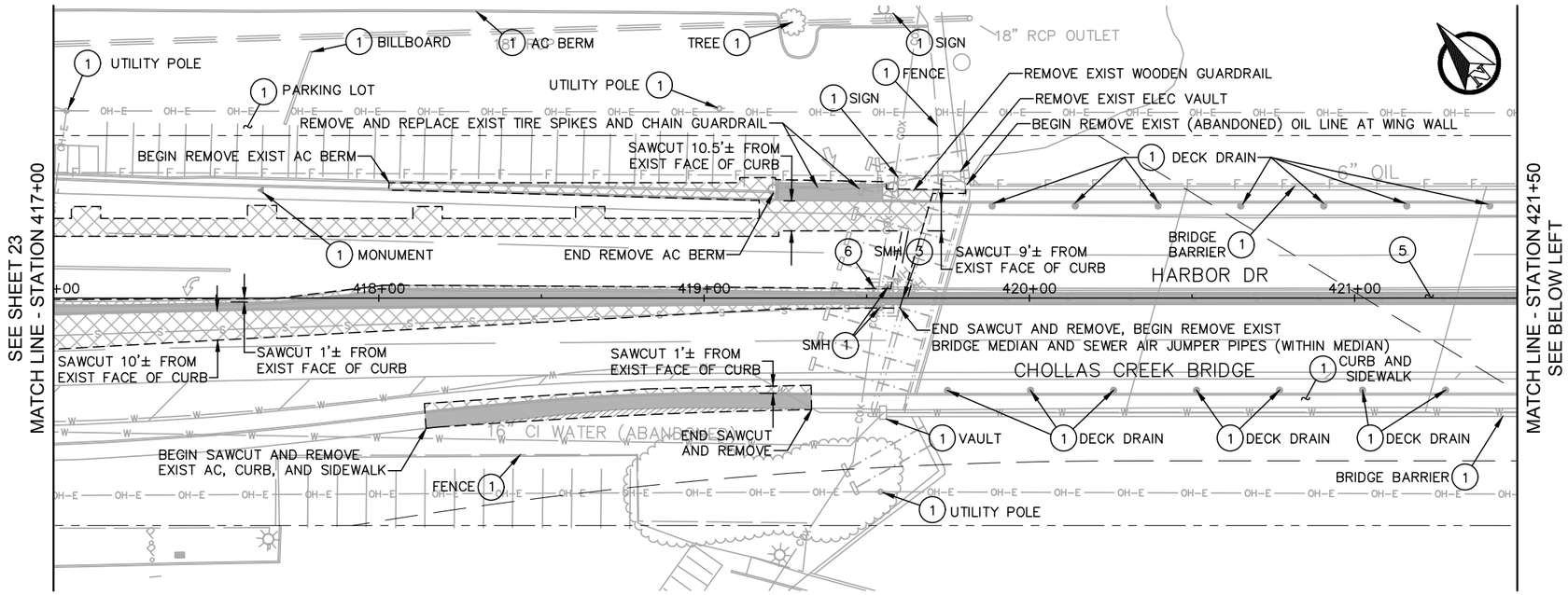
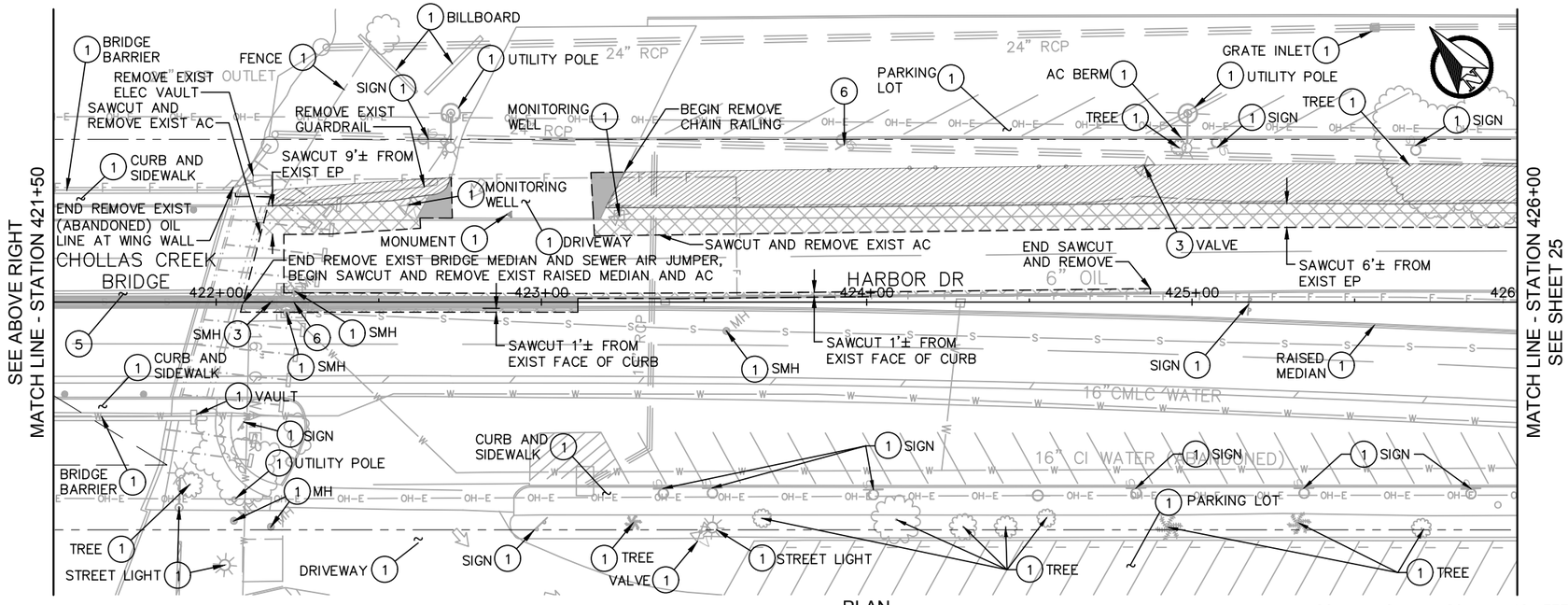


PLAN



PLAN

20 0 20 40 FEET
1"=20'

DEMOLITION NOTES

1. PROTECT IN PLACE
3. ADJUST TO GRADE
5. REMOVE EXIST BRIDGE BARRIER PER BRIDGE MODIFICATION SHEETS
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- SAWCUT

811 Know what's below. Call before you dig.

0 1/2 1
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619-741-9400
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. DODGE	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DEMOLITION PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 24 OF 187 SHEETS

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

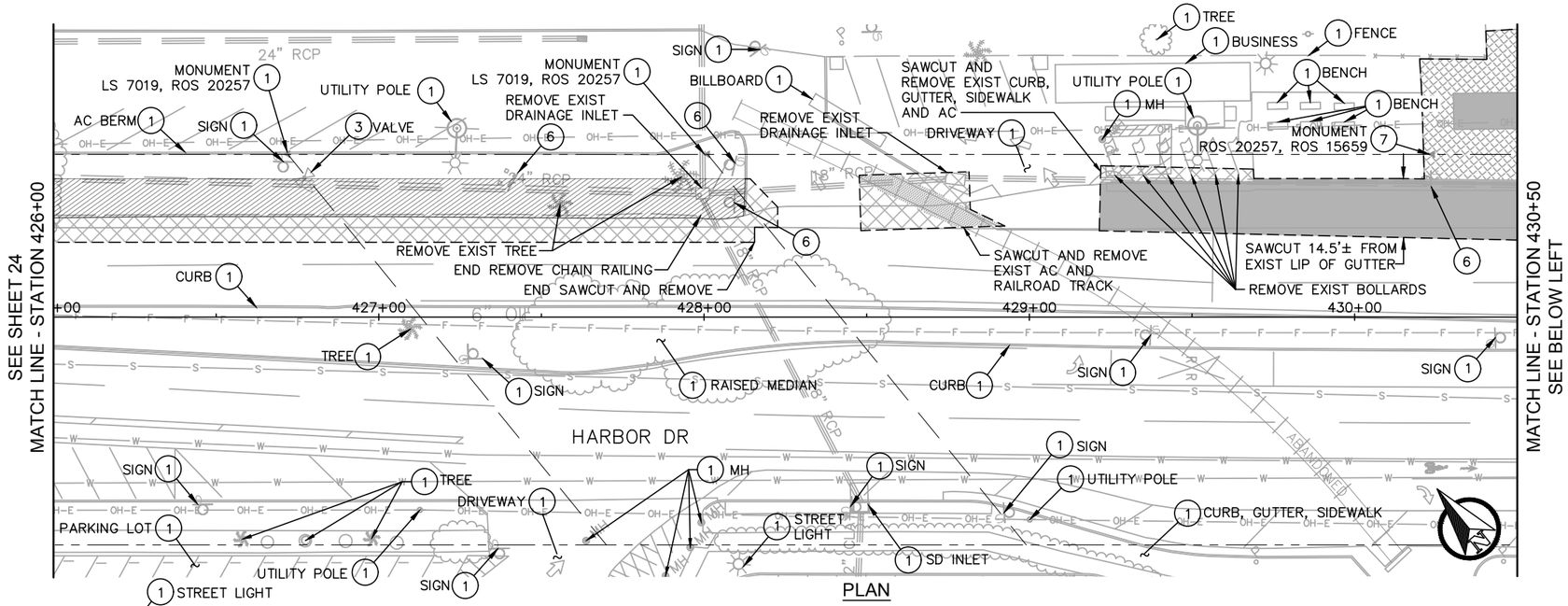
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

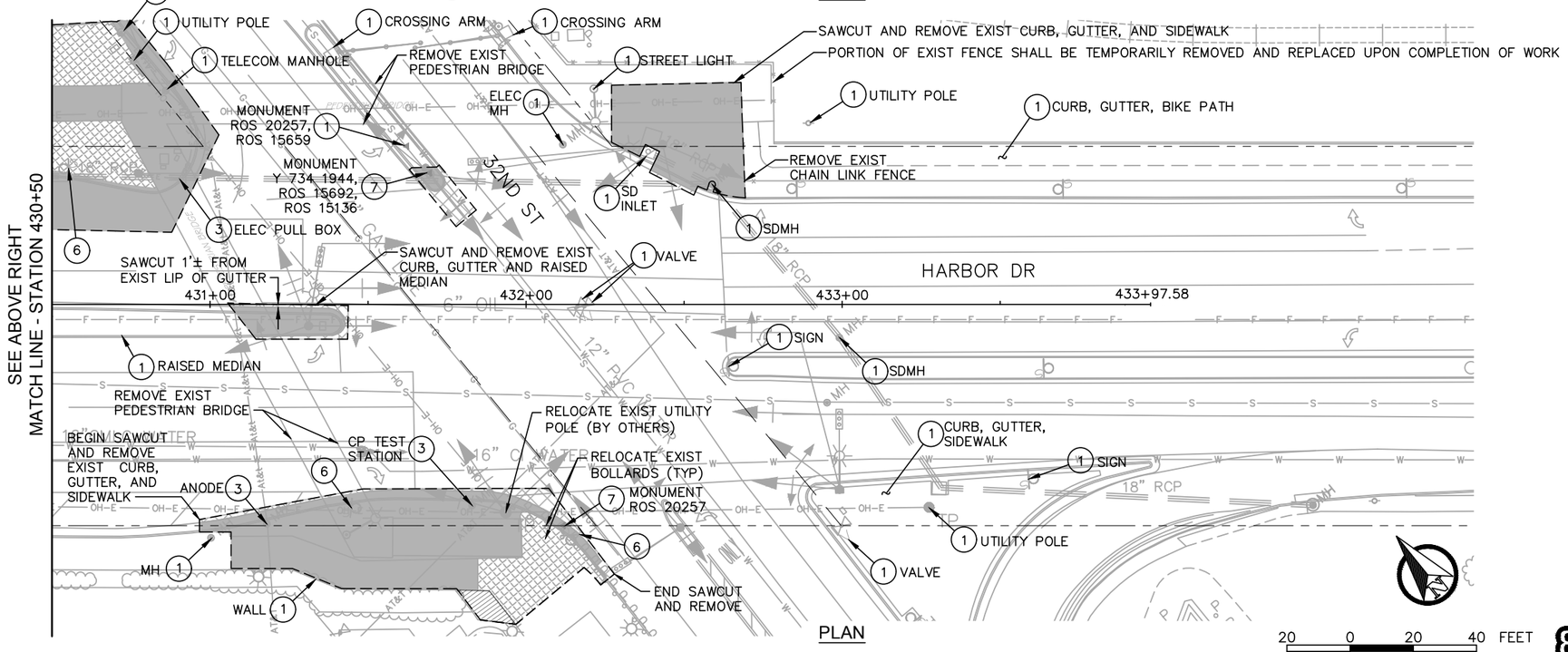
41370- 24-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/6/2019 11:14:39 AM



PLAN



PLAN

20 0 20 40 FEET
1"=20'

DEMOLITION NOTES

1. PROTECT IN PLACE
3. ADJUST TO GRADE
6. RELOCATE/REMOVE EXIST SIGN PER SIGNING AND STRIPING SHEETS
7. REPLACE MONUMENT IF DESTROYED

DEMOLITION LEGEND

- REMOVE EXIST CURB, GUTTER, SIDEWALK AND/OR CONCRETE PAVEMENT
- REMOVE EXIST ASPHALT CONCRETE AND/OR ASPHALT CONCRETE DIKE
- REMOVE EXIST VEGETATION
- REMOVE EXIST RAILROAD TRACK
- SAWCUT

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

DEMOLITION PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 25 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 25-**D**

0 1/2 1
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Quality Infrastructure Corporation
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La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

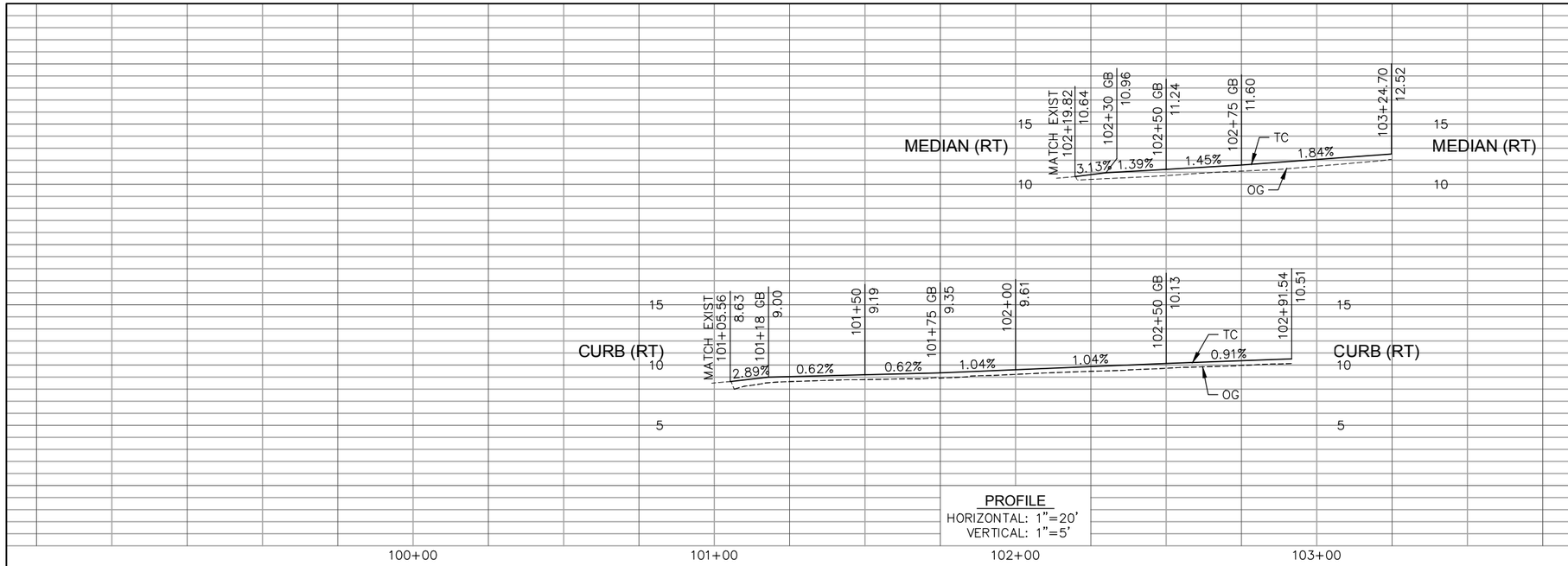
		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/6/2019 11:17:39 AM

NOT FOR CONSTRUCTION – MAY 6, 2019



PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

CURVE / LINE DATA

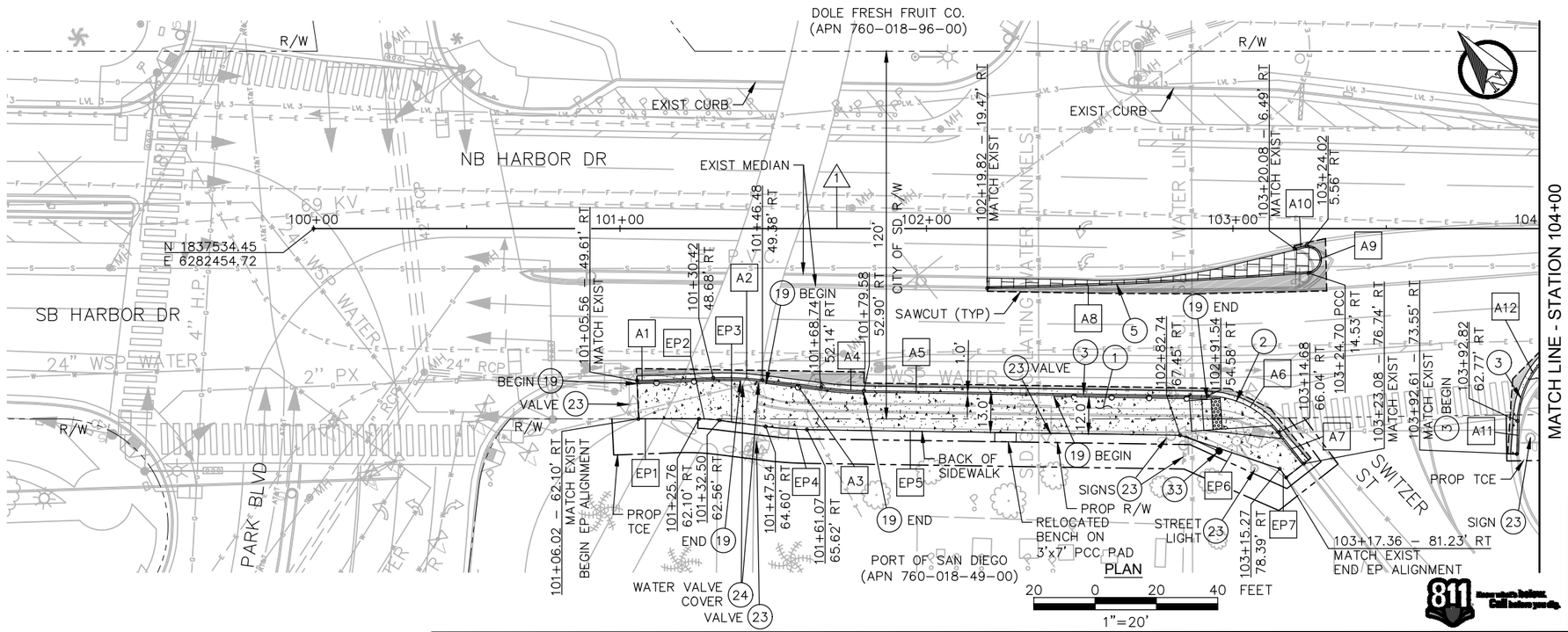
No.	BEARING/DELTA	RADIUS	LENGTH
EP1	S 51°35'43" E	–	19.74'
EP2	7°44'42"	50.00'	6.76'
EP3	S 44°51'00" E	–	15.18'
EP4	6°53'06"	113.00'	13.58'
EP5	S 50°44'06" E	–	121.69'
EP6	S 32°59'32" E	–	34.32'
EP7	S 1°55'15" W	–	3.53'
A1	S 53°43'37" E	–	24.88'
A2	9°13'11"	100.00'	16.09'
A3	S 44°30'27" E	–	22.43'
A4	6°13'40"	100.00'	10.87'
A5	S 50°44'06" E	–	111.98'
A6	50°59'35"	30.00'	26.70'
A7	S 0°15'29" W	–	13.60'
A8	3°16'19"	1839.00'	105.02'
A9	180°00'40"	4.50'	14.14'
A10	N 64°56'35" W	–	4.05'
A11	N 39°32'03" E	–	10.78'
A12	84°33'39"	30.00'	44.28'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
1	S 51°35'43" E	3,335.75'	--	--

CONSTRUCTION NOTES

1. SIDEWALK PER SDG-155
2. MODIFIED CURB RAMP PER CONSTRUCTION DETAILS
3. 6" TYPE G CURB AND GUTTER PER SDG-151
5. TYPE B-1 CURB PER SDG-154
19. VINYL COATED CHAIN LINK FENCE (H=4') PER SDM-112
23. PROTECT IN PLACE
24. ADJUST TO GRADE
33. RELOCATED COMBINATION AIR AND VACUUM VALVE AND ENCLOSURE PER SDW-117, SDW-159



PLAN

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 26 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES

XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 26 -D

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

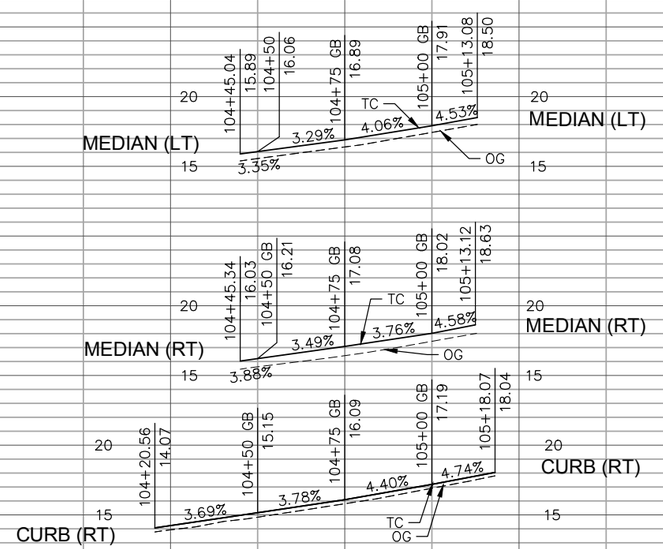
SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

811 Know what's below. Call before you dig.

5/5/2019 3:28:44 PM

NOT FOR CONSTRUCTION – MAY 6, 2019



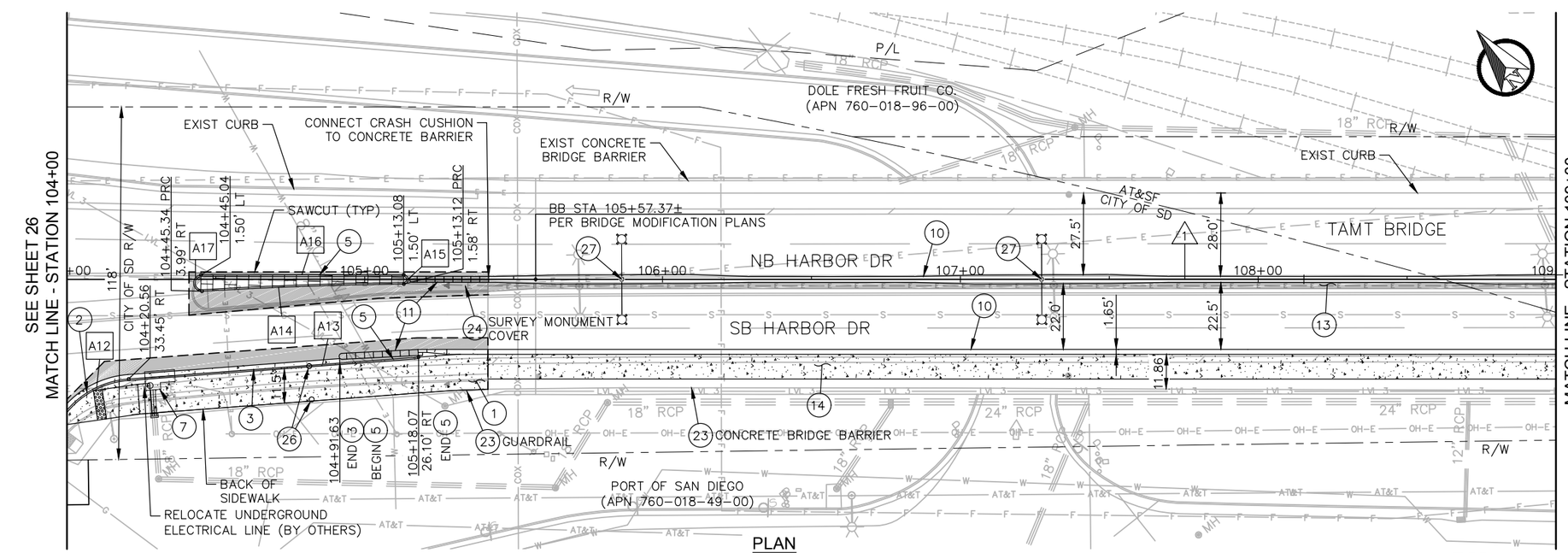
PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
A12	84°33'39"	30.00'	44.28'
A13	S 55°54'18" E	–	97.79'
A14	2°51'19"	1361.00'	67.82'
A15	177°02'00"	1.54'	4.76'
A16	S 51°35'43" E	–	68.04'
A17	175°42'34"	2.75'	8.43'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
1	S 51°35'43" E	3,335.75'	--	--



PLAN
20 0 20 40 FEET
1"=20'

CONSTRUCTION NOTES

1. SIDEWALK PER SDG-155
2. MODIFIED CURB RAMP PER CONSTRUCTION DETAILS
3. 6" TYPE G CURB AND GUTTER PER SDG-151
5. TYPE B-1 CURB PER SDG-154
7. DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
10. CONCRETE BARRIER ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
11. CRASH CUSHION PER SPECIFICATIONS
13. AC OVERLAY ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
14. MINOR CONCRETE ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
23. PROTECT IN PLACE
24. ADJUST TO GRADE
26. RRFB MOTION DETECTORS PER SPECIFICATIONS
27. STREET LIGHT AND EQUIPMENT PER LIGHTING PLANS

0 1/2 1
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7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 27 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

41370- 27-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 3:35:48 PM

ALIGNMENT DATA

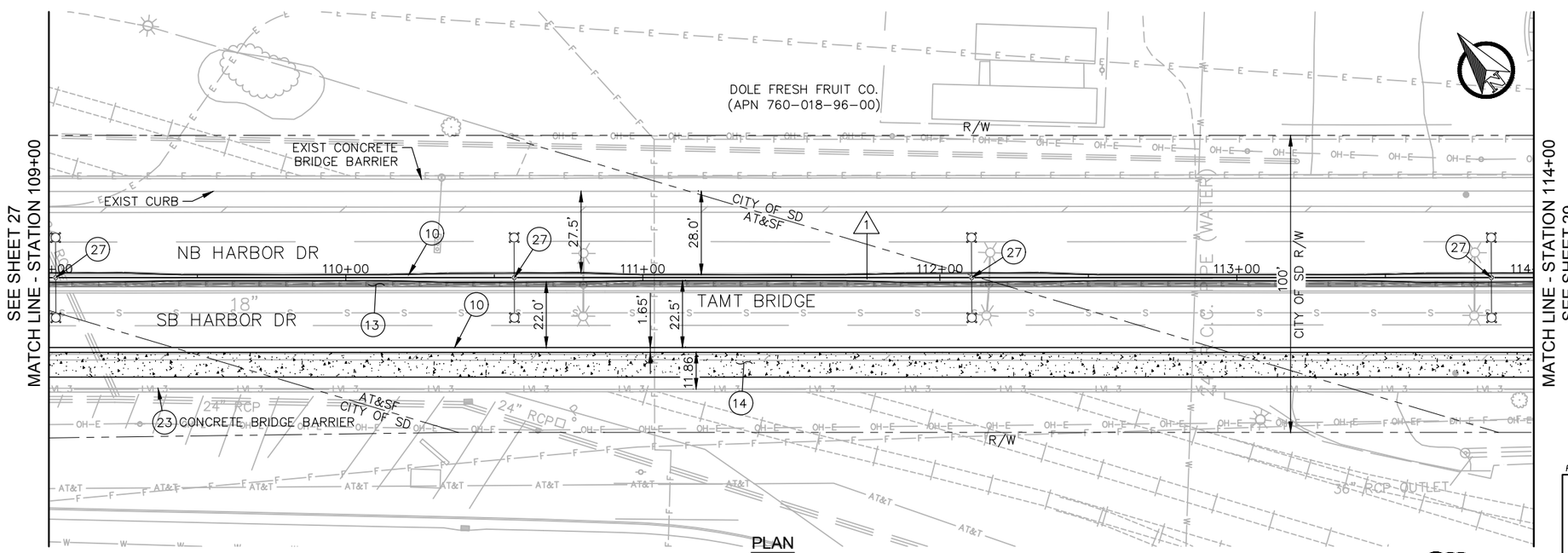
No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
1	S 51°35'43" E	3,335.75'	--	--

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

109+00 110+00 111+00 112+00 113+00 114+00

CONSTRUCTION NOTES

(10) CONCRETE BARRIER ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
(13) AC OVERLAY ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
(14) MINOR CONCRETE ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
(23) PROTECT IN PLACE
(27) STREET LIGHT AND EQUIPMENT PER LIGHTING PLANS



PLAN
20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 28 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 28-D

0 1/2 1
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Quality Infrastructure Corporation
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La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

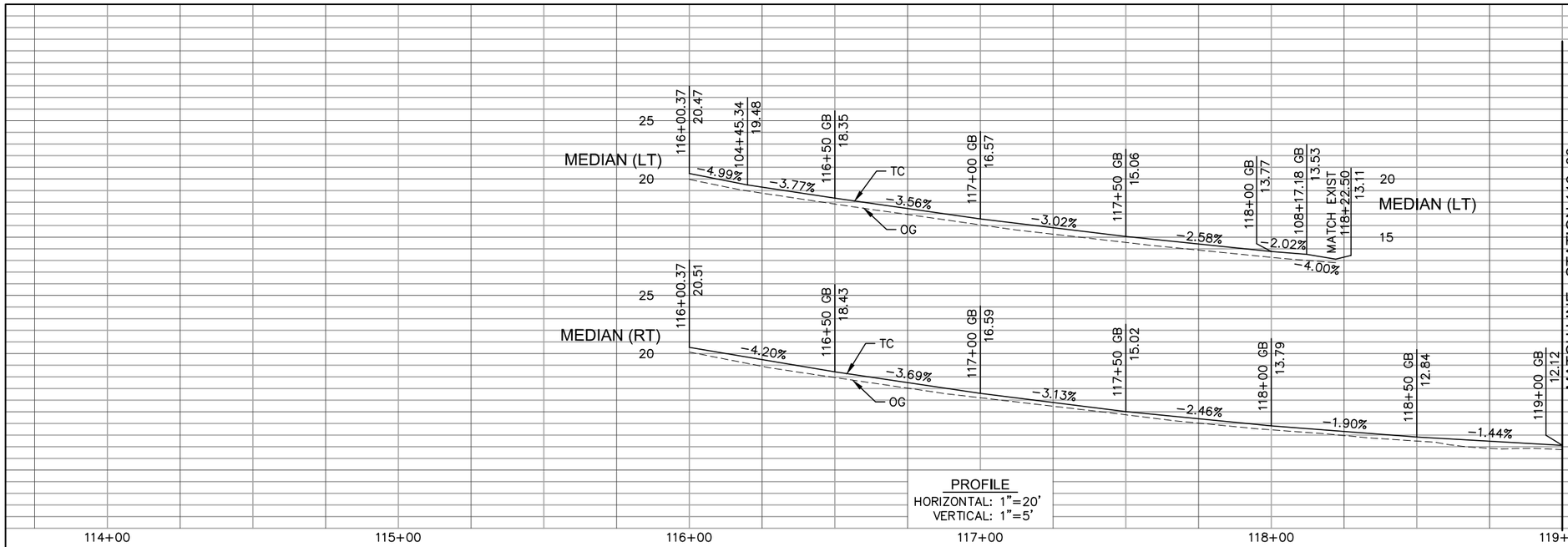
		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/5/2019 3:39:13 PM

NOT FOR CONSTRUCTION – MAY 6, 2019



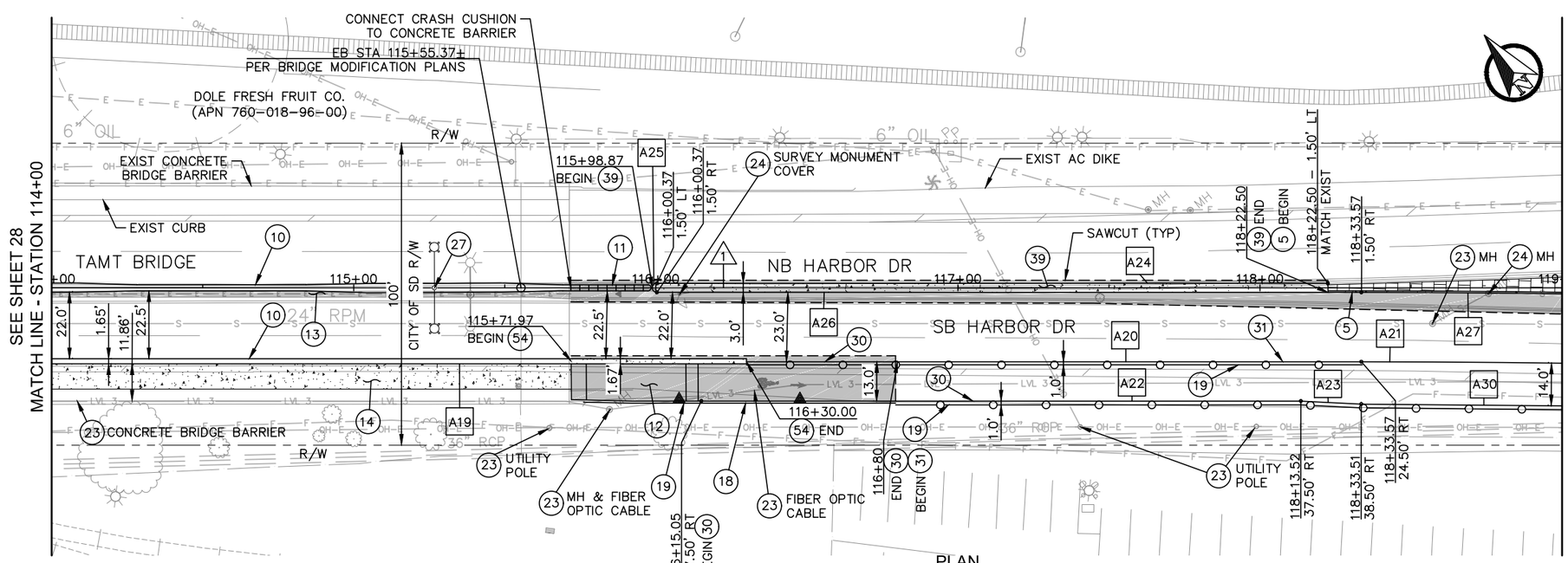
PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
A19	S 51°35'43" E	–	58.02'
A20	S 51°35'43" E	–	203.57'
A21	0°48'16"	5007.00'	70.30'
A22	S 51°35'43" E	–	198.48'
A23	S 48°43'58" E	–	20.02'
A24	S 51°35'43" E	–	222.12'
A25	180°00'08"	1.50'	4.71'
A26	S 51°35'43" E	–	222.13'
A27	0°48'16"	5007.00'	70.30'
A30	S 51°06'15" E	–	90.03'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
1	S 51°35'43" E	3,335.75'	--	--



PLAN
20 0 20 40 FEET
1"=20'

CONSTRUCTION NOTES

- (5) TYPE B-1 CURB PER SDG-154
- (10) CONCRETE BARRIER ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
- (11) CRASH CUSHION PER SPECIFICATIONS
- (12) AC RAMP PER CONSTRUCTION DETAILS
- (13) AC OVERLAY ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
- (14) MINOR CONCRETE ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
- (18) RETAINING WALL PER RETAINING WALL PLANS
- (19) VINYL COATED CHAIN LINK FENCE (H=4') PER SDM-112
- (23) PROTECT IN PLACE
- (24) ADJUST TO GRADE
- (27) STREET LIGHT AND EQUIPMENT PER LIGHTING PLANS
- (30) TYPE A HOT MIX AC DIKE PER SDRSD G-5
- (31) DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS
- (37) 2' CONTINUOUS MONOLITHIC MEDIAN (TYPE B-LT) PER CONSTRUCTION DETAILS
- (39) 3' CONTINUOUS MONOLITHIC MEDIAN (TYPE A) PER CONSTRUCTION DETAILS
- (54) CONCRETE BARRIER TYPE 836B PER RSP B11-80

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
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Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 29 OF 187 SHEETS

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

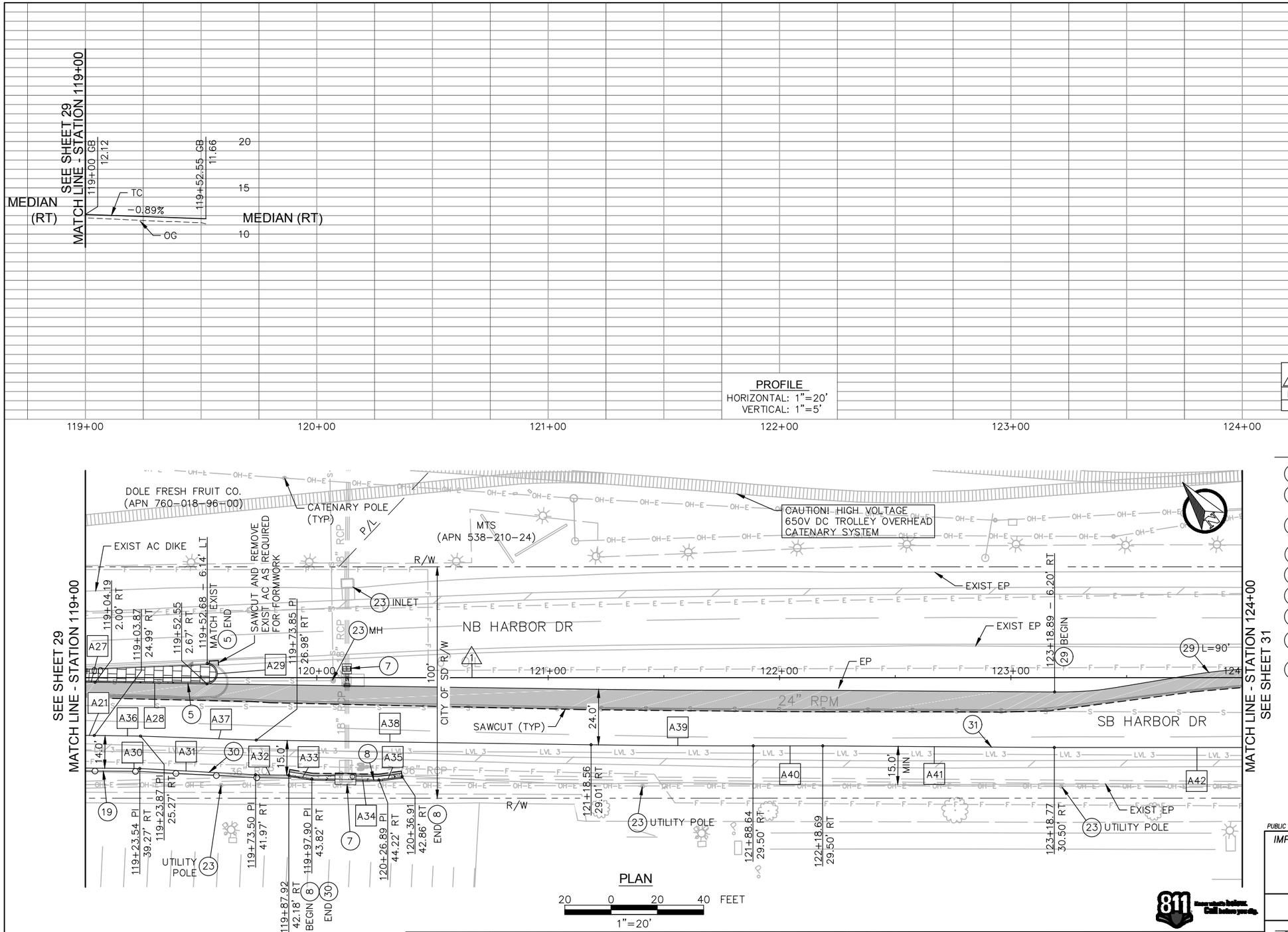
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

41370- 29 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/6/2019 7:58:40 AM



CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
A21	0°48'16"	5007.00'	70.30'
A27	0°48'16"	5007.00'	70.30'
A28	S 50°47'27" E	–	48.37'
A29	180°00'00"	4.41'	13.85'
A30	S 51°06'15" E	–	90.03'
A31	S 48°30'01" E	–	50.04'
A32	S 50°47'27" E	–	14.42'
A33	S 42°15'36" E	–	10.11'
A34	S 50°47'27" E	–	29.00'
A35	S 59°19'18" E	–	10.11'
A36	S 50°47'27" E	–	20.00'
A37	S 49°38'42" E	–	50.01'
A38	S 50°47'27" E	–	144.72'
A39	0°48'16"	4992.00'	70.09'
A40	S 51°35'43" E	–	30.05'
A41	S 51°11'41" E	–	100.08'
A42	S 51°35'43" E	–	876.73'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
1	S 51°35'43" E	3,335.75'	--	--

CONSTRUCTION NOTES

5. TYPE B-1 CURB PER SDG-154
7. DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
8. INLET TRANSITION PROFILE AND MODIFIED TYPE G CURB AND GUTTER (TYPE A) PER CONSTRUCTION DETAILS
19. VINYL COATED CHAIN LINK FENCE (H=4') PER SDM-112
23. PROTECT IN PLACE
24. ADJUST TO GRADE
29. LEFT TURN MEDIAN TRANSITION PER SDM-101
30. TYPE A HOT MIX AC DIKE PER SDRSD G-5
31. DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 30 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370- 30-D

0 1/2 1
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QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

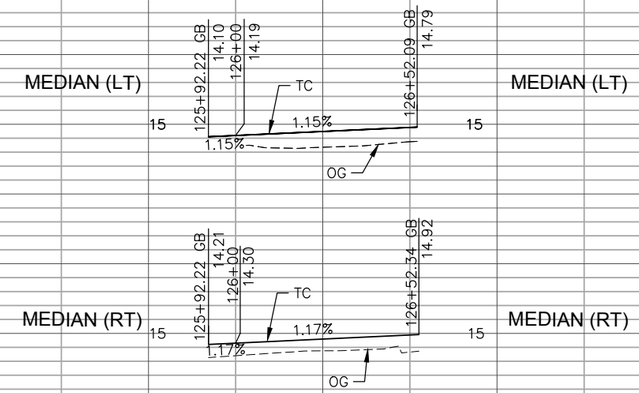
811 Know what's below. Call before you dig.

5/5/2019 3:51:14 PM

NOT FOR CONSTRUCTION – MAY 6, 2019

CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
A42	S 51°35'43" E	–	867.73'
A43	S 51°35'43" E	–	22.48'
A44	7°19'31"	100.00'	12.79'
A45	S 58°55'15" E	–	25.10'
A46	172°40'29"	2.00'	6.03'
A47	N 51°35'43" W	–	59.87'
A48	S 38°24'17" W	–	8.00'

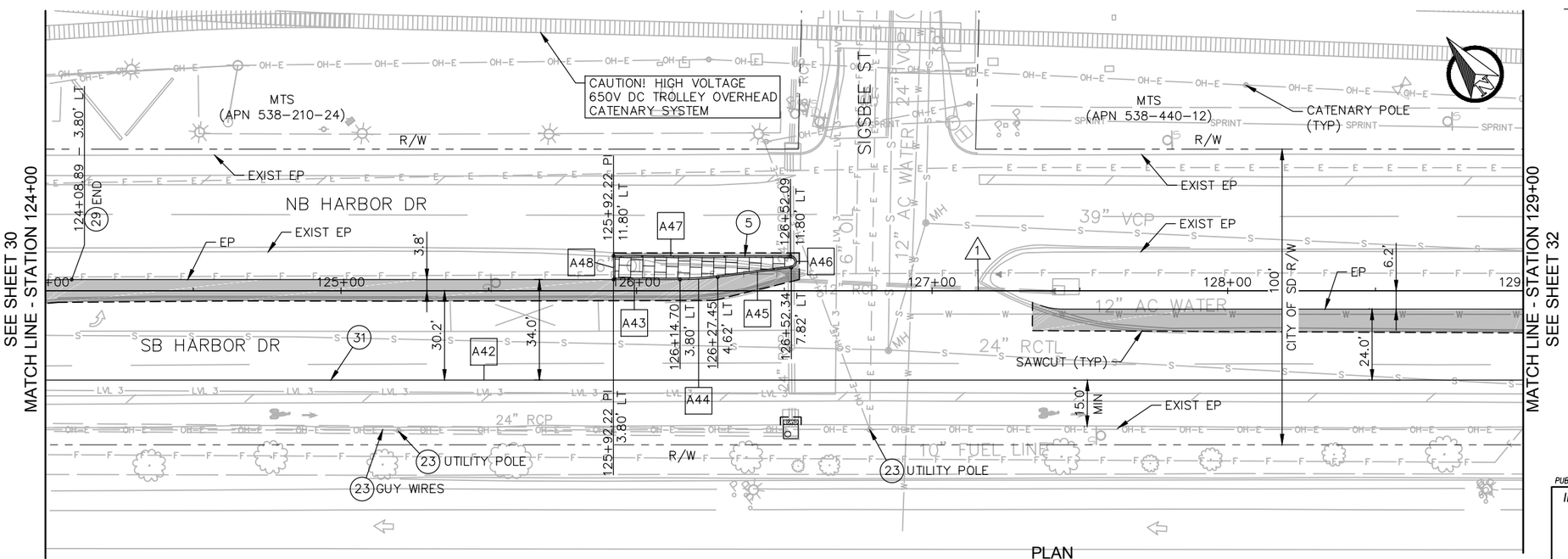


PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

124+00 125+00 126+00 127+00 128+00 129+00

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
1	S 51°35'43" E	3,335.75'	--	--



PLAN
20 0 20 40 FEET
1"=20'

CONSTRUCTION NOTES

(5) TYPE B-1 CURB PER SDG-154

(7) DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS

(23) PROTECT IN PLACE

(29) LEFT TURN MEDIAN TRANSITION PER SDM-101

(31) DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS

0 1/2 1
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Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
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619-741-9400
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 31 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 31 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 3:58:36 PM

CURVE / LINE DATA

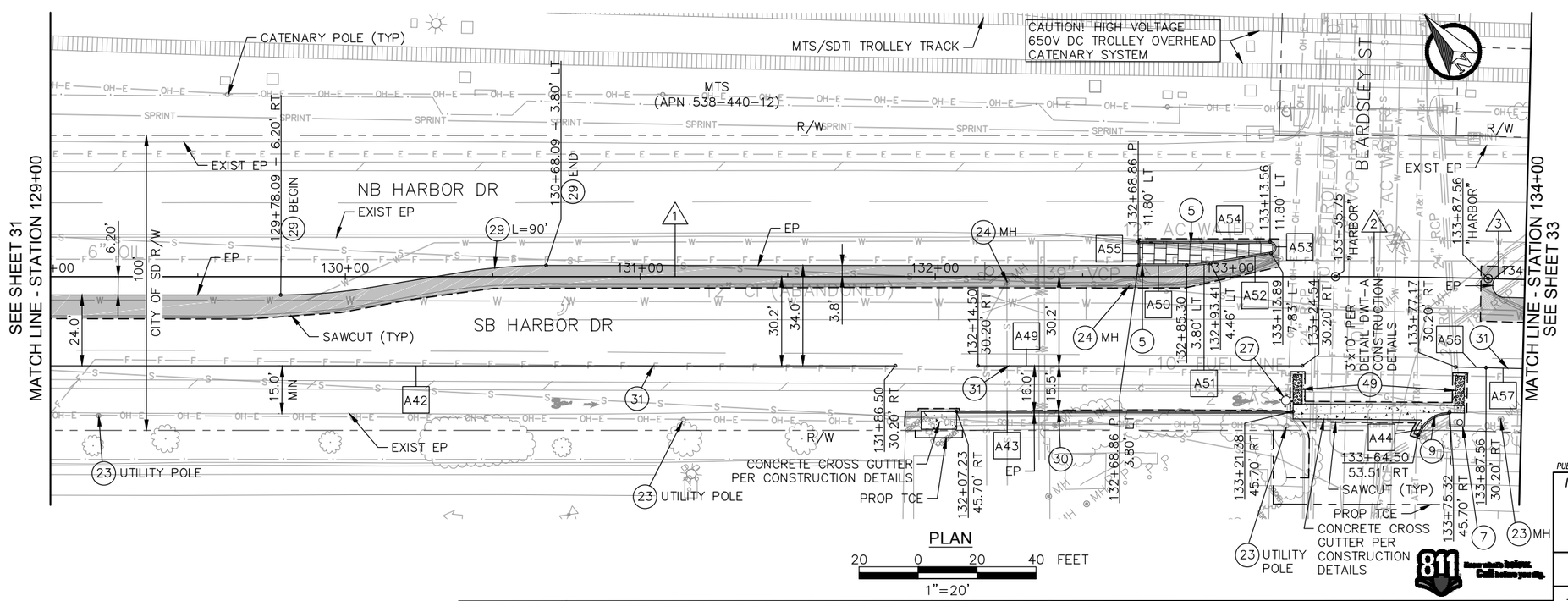
No.	BEARING/DELTA	RADIUS	LENGTH
A42	S 51°35'43" E	–	867.73'
A43	S 51°35'43" E	–	114.15'
A44	73°19'34"	10.50'	13.44'
A49	S 51°35'43" E	–	110.04'
A50	S 51°35'43" E	–	16.45'
A51	9°19'52"	50.00'	8.14'
A52	S 60°55'35" E	–	20.73'
A53	170°40'08"	2.00'	5.96
A54	N 51°35'43" W	–	44.71'
A55	S 38°24'17" W	–	8.00'
A56	0°17'30"	2009.80'	10.23'
A57	S 50°08'25" E	–	558.67'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
1	S 51°35'43" E	3,335.75'	--	--
2	1°27'18"	51.80'	2040.00'	25.90'
3	S 50°08'25" E	632.46'	--	--

CONSTRUCTION NOTES

5. TYPE B-1 CURB PER SDG-154
9. INLET TRANSITION PROFILE AND MODIFIED TYPE G CURB AND GUTTER (TYPE B) PER CONSTRUCTION DETAILS
23. PROTECT IN PLACE
24. ADJUST TO GRADE
27. STREET LIGHT AND EQUIPMENT PER LIGHTING PLANS
29. LEFT TURN MEDIAN TRANSITION PER SDM-101
30. TYPE A HOT MIX AC DIKE PER SDRSD G-5
31. DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS
49. DETECTABLE WARNING TILE PER SDG-130



PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 32 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370- 32 -D

0 1/2 1
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Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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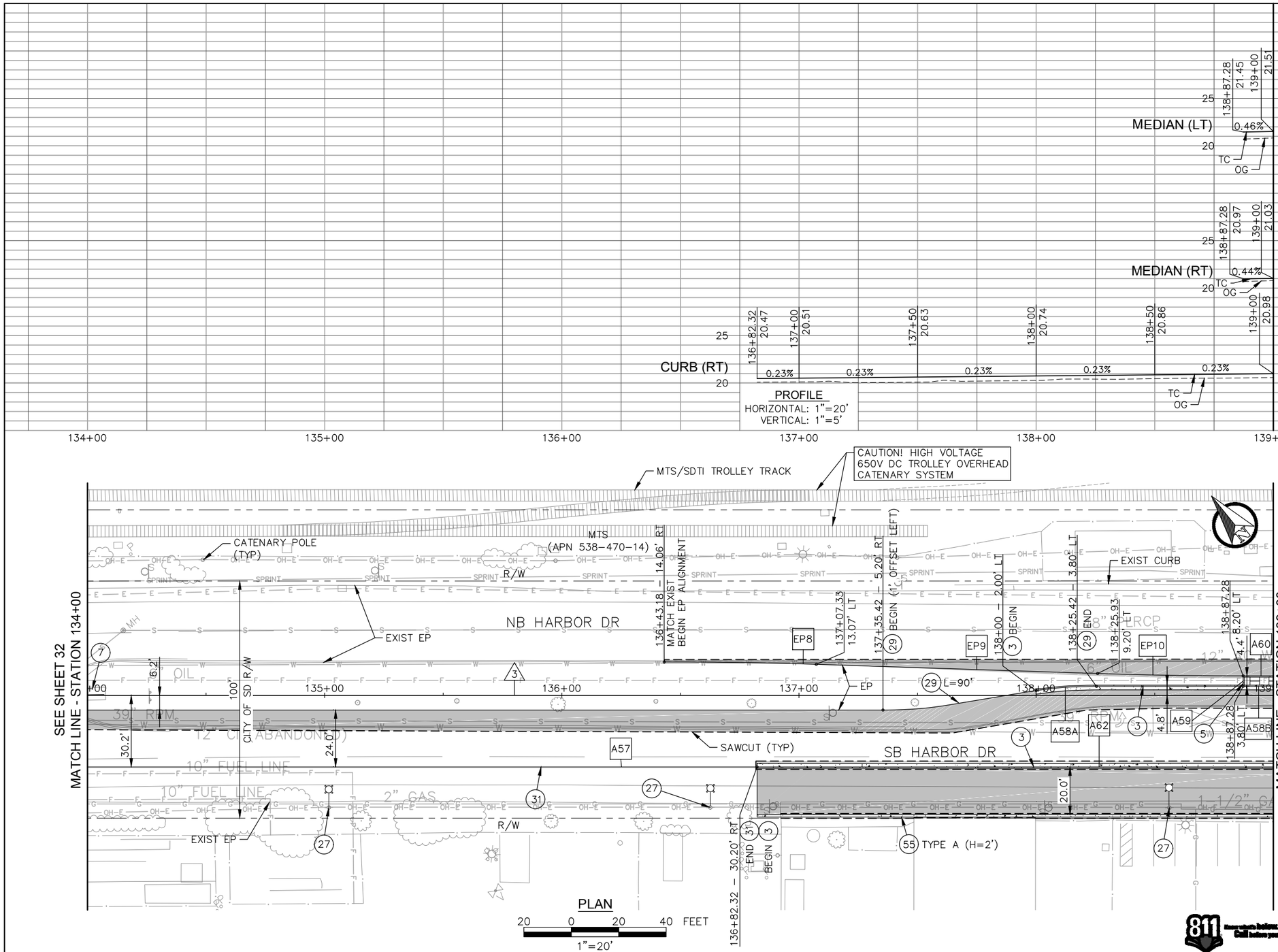

CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
A57	S 50°08'25" E	–	305.00'
EP8	1°59'15"	1850.00'	64.17'
EP9	S 48°16'12" E	–	118.66'
EP10	1°52'13"	1880.00'	61.37'
A57	S 50°08'25" E	–	558.67'
A58A	PER SDM-101		
A58B	S 50°08'25" E	–	135.09'
A59	N 39°51'35" E	–	4.40'
A60	S 50°08'25" E	–	73.23'
A62	S 50°08'25" E	–	263.90'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
3	S 50°08'25" E	632.46'	--	--

CONSTRUCTION NOTES

(3) 6" TYPE G CURB AND GUTTER PER SDG-151

(5) TYPE B-1 CURB PER SDG-154

(7) DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS

(27) STREET LIGHT AND EQUIPMENT PER LIGHTING PLANS

(29) LEFT TURN MEDIAN TRANSITION PER SDM-101

(31) DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS

(55) GRAVITY RETAINING WALL PER C-09 SEE CONSTRUCTION DETAILS

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 33 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370- 33-D

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619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

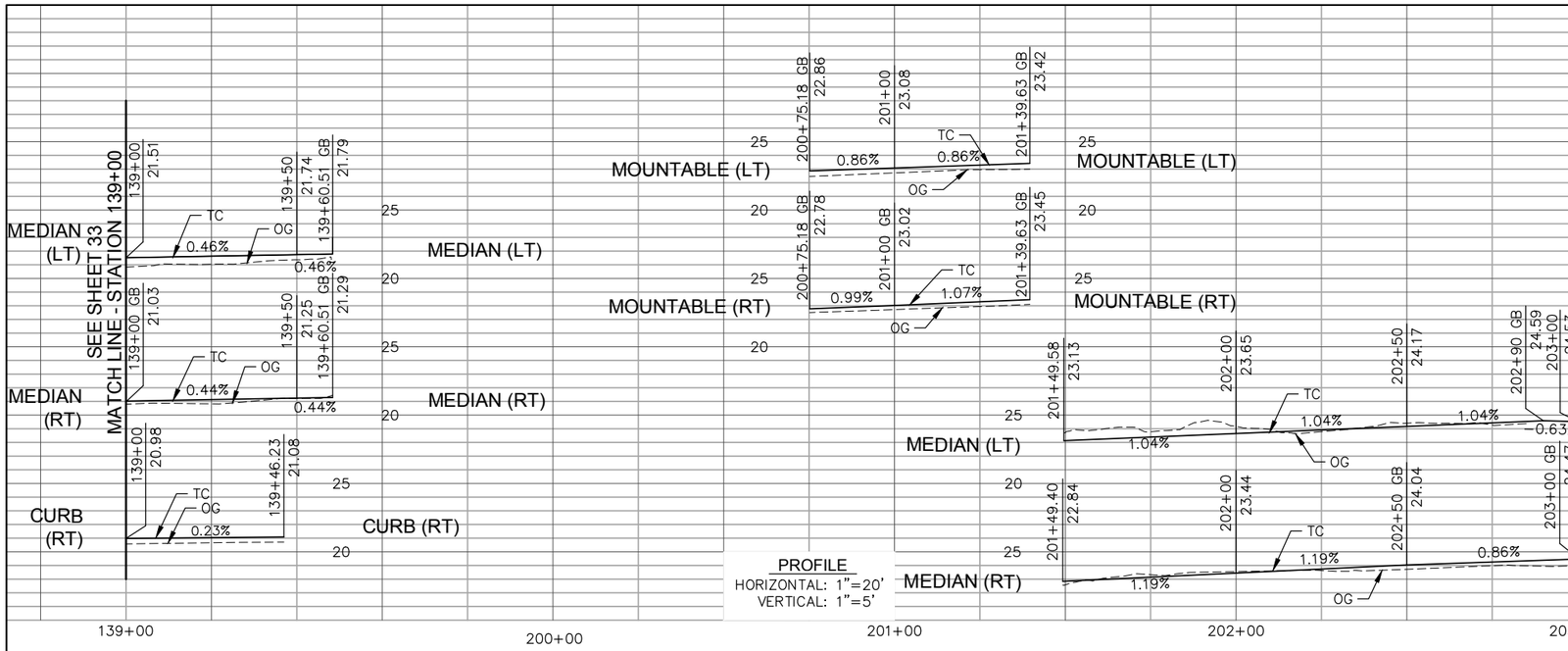
		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/5/2019 4:10:08 PM

NOT FOR CONSTRUCTION – MAY 6, 2019



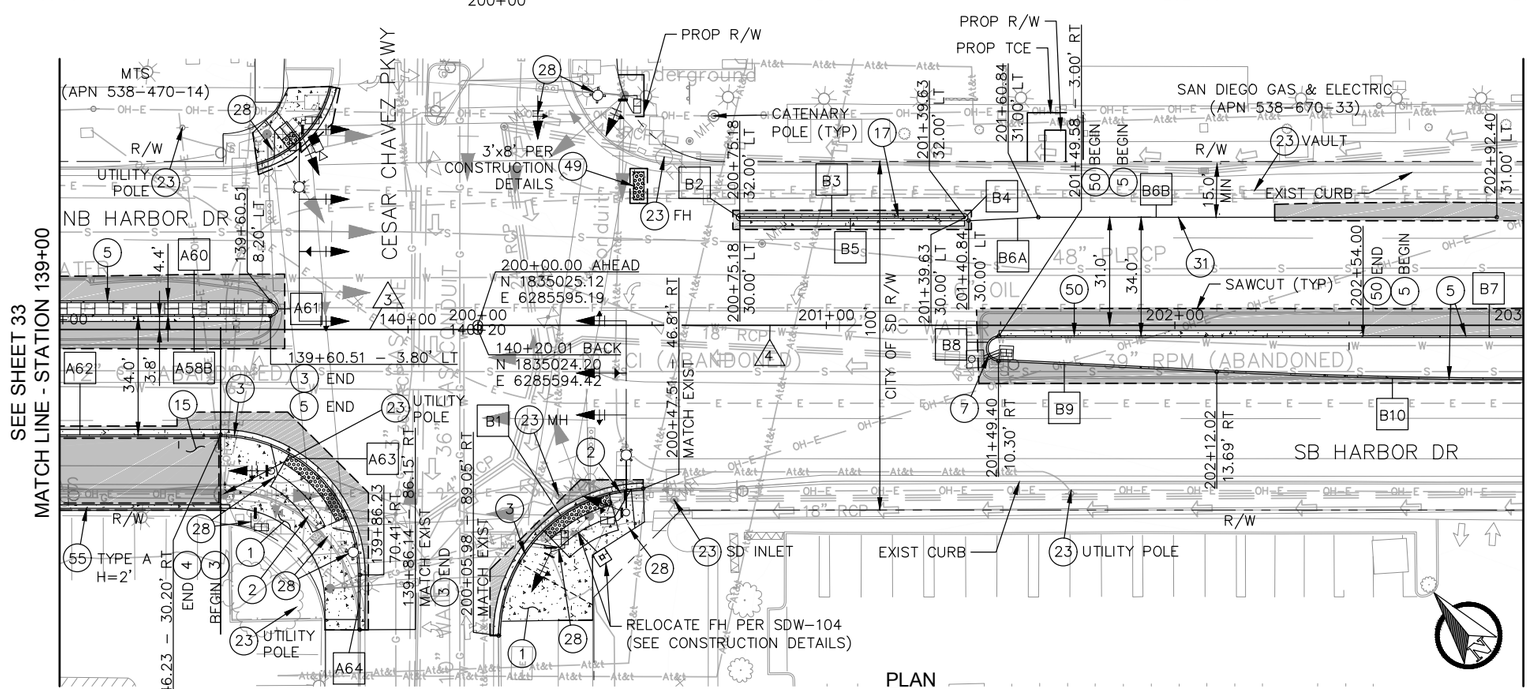
PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
A57	S 50°08'25" E	–	558.67'
A58B	S 50°08'25" E	–	135.09'
A60	S 50°08'25" E	–	73.23'
A61	180°00'00"	2.20'	6.91'
A62	S 50°08'25" E	–	263.90'
A63	90°17'56"	40.00'	63.04'
A64	S 40°09'31" W	–	15.74'
B1	89°40'42"	42.00'	65.74'
B2	180°00'00"	0.25'	0.79'
B3	S 50°08'25" E	–	64.45'
B4	180°00'00"	0.25'	0.79'
B5	S 50°08'25" E	–	64.45'
B6A	S 53°00'09" E	–	20.03'
B6B	S 50°08'25" E	–	131.55'
B7	S 50°08'25" E	–	190.06'
B8	177°10'12"	3.65'	11.29'
B9	S 47°18'36" E	–	62.70'
B10	2°51'41"	1844.50'	92.12'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
3	S 50°08'25" E	632.46'	--	--
4	S 50°08'25" E	2997.42'	--	--



PLAN
20 0 20 40 FEET
1"=20'

CONSTRUCTION NOTES

1. SIDEWALK PER SDG-155
2. MODIFIED CURB RAMP PER CONSTRUCTION DETAILS
3. 6" TYPE G CURB AND GUTTER PER SDG-151
4. TYPE G CURB AND GUTTER (MOD)
5. TYPE B-1 CURB PER SDG-154
7. DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
15. MINOR CONCRETE RAMP PER CONSTRUCTION DETAILS
17. CONCRETE MOUNTABLE RAISED MEDIAN PER CONSTRUCTION DETAILS
23. PROTECT IN PLACE
28. SIGNAL MODIFICATION AND EQUIPMENT PER SIGNAL MODIFICATION PLANS
31. DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS
49. DETECTABLE WARNING TILE PER SDG-130
50. TYPE G CURB AND GUTTER WITH OPENINGS AT 5' O.C. PER CONSTRUCTION DETAILS
55. GRAVITY RETAINING WALL PER C-09 SEE CONSTRUCTION DETAILS

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 34 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 34 -D

0 1/2 1
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619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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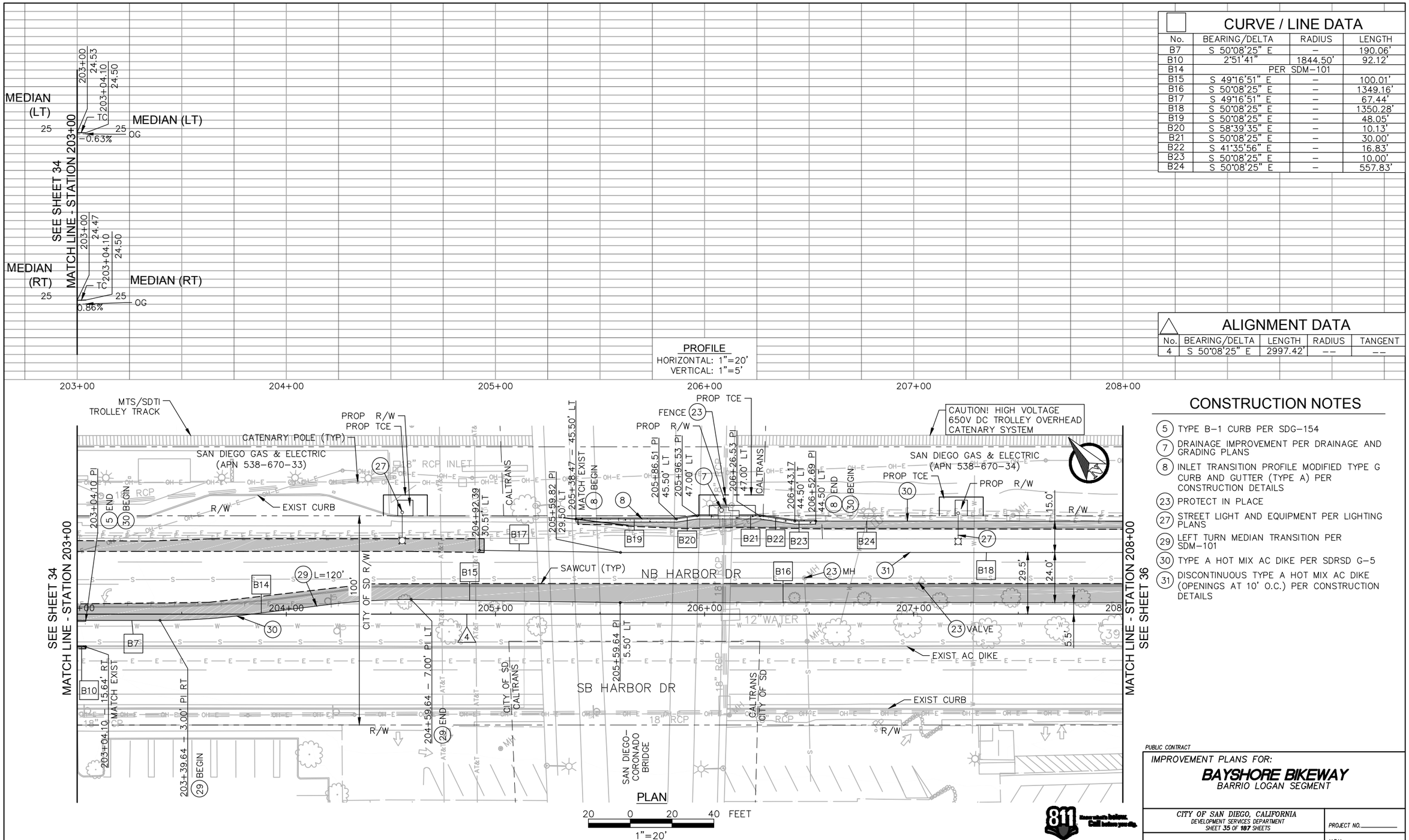

CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
B7	S 50°08'25" E	–	190.06'
B10	2°51'41"	1844.50'	92.12'
B14	PER SDM–101		
B15	S 49°16'51" E	–	100.01'
B16	S 50°08'25" E	–	1349.16'
B17	S 49°16'51" E	–	67.44'
B18	S 50°08'25" E	–	1350.28'
B19	S 50°08'25" E	–	48.05'
B20	S 58°39'35" E	–	10.13'
B21	S 50°08'25" E	–	30.00'
B22	S 41°35'56" E	–	16.83'
B23	S 50°08'25" E	–	10.00'
B24	S 50°08'25" E	–	557.83'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
4	S 50°08'25" E	2997.42'	--	--

CONSTRUCTION NOTES

5. TYPE B–1 CURB PER SDG–154
7. DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
8. INLET TRANSITION PROFILE MODIFIED TYPE G CURB AND GUTTER (TYPE A) PER CONSTRUCTION DETAILS
23. PROTECT IN PLACE
27. STREET LIGHT AND EQUIPMENT PER LIGHTING PLANS
29. LEFT TURN MEDIAN TRANSITION PER SDM–101
30. TYPE A HOT MIX AC DIKE PER SDRSD G–5
31. DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 35 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

1834–6287
NAD83 COORDINATES

XXX–XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 35-D

0 1/2 1
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ALEC E. RIVERA
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Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
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CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 4:23:17 PM

CURVE / LINE DATA

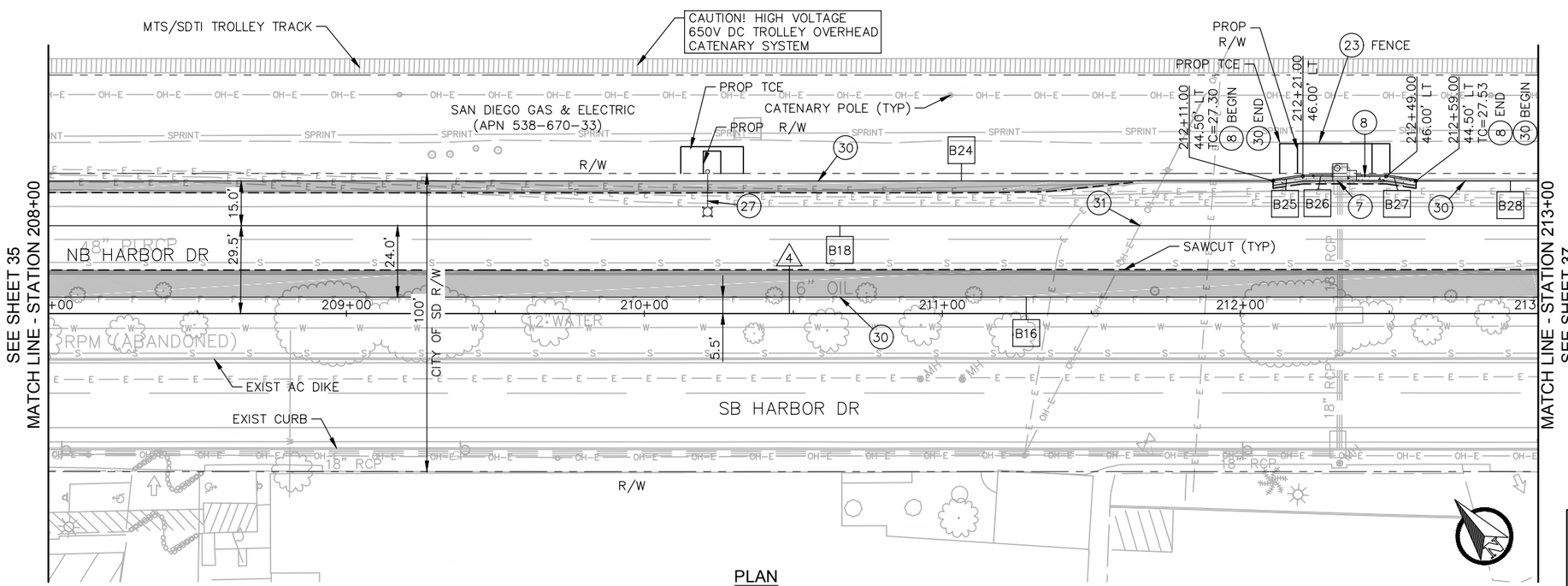
No.	BEARING/DELTA	RADIUS	LENGTH
B16	S 50°08'25" E	–	1349.16'
B18	S 50°08'25" E	–	1350.28'
B24	S 50°08'25" E	–	557.83'
B25	S 58°39'57" E	–	10.11'
B26	S 50°08'32" E	–	28.00'
B27	S 41°36'16" E	–	10.11'
B28	S 50°08'25" E	–	640.39'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
4	S 50°08'25" E	2997.42'	--	--

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

208+00 209+00 210+00 211+00 212+00 213+00



PLAN
20 0 20 40 FEET
1"=20'

CONSTRUCTION NOTES

7. CONSTRUCT DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
8. INLET TRANSITION PROFILE AND MODIFIED TYPE G CURB AND GUTTER (TYPE A) PER CONSTRUCTION DETAILS
23. PROTECT IN PLACE
27. STREET LIGHT AND EQUIPMENT PER LIGHTING PLANS
30. TYPE A HOT MIX AC DIKE PER SDRSD G-5
31. DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS

0 1/2 1
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CIVIL
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SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 36 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 36 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 5:12:53 PM

CURVE / LINE DATA

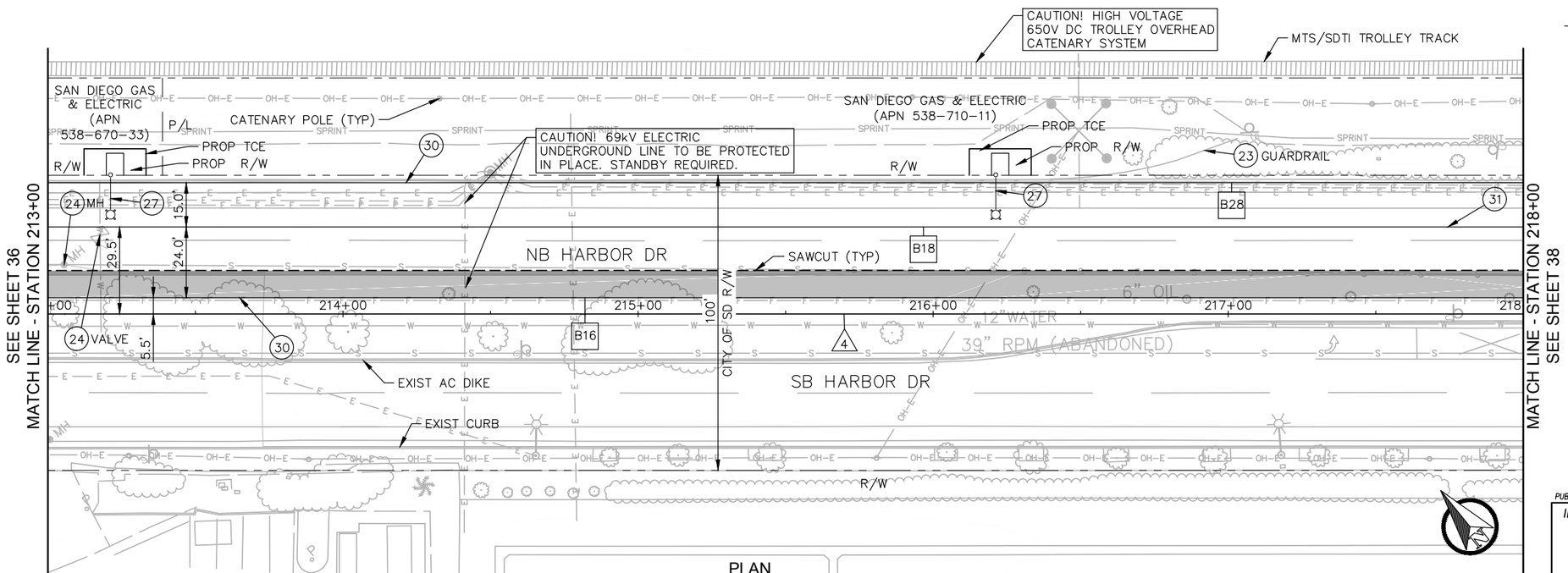
No.	BEARING/DELTA	RADIUS	LENGTH
B16	S 50°08'25" E	–	1349.16'
B18	S 50°08'25" E	–	1350.28'
B28	S 50°08'25" E	–	640.39'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
4	S 50°08'25" E	2997.42'	--	--

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

213+00 214+00 215+00 216+00 217+00 218+00



PLAN
20 0 20 40 FEET
1"=20'

CONSTRUCTION NOTES

(23) PROTECT IN PLACE
(24) ADJUST TO GRADE
(27) STREET LIGHT AND EQUIPMENT PER LIGHTING PLANS
(30) TYPE A HOT MIX AC DIKE PER SDRSD G-5
(31) DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 37 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 37 -D

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

811 Know what's below. Call before you dig.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 5:20:00 PM

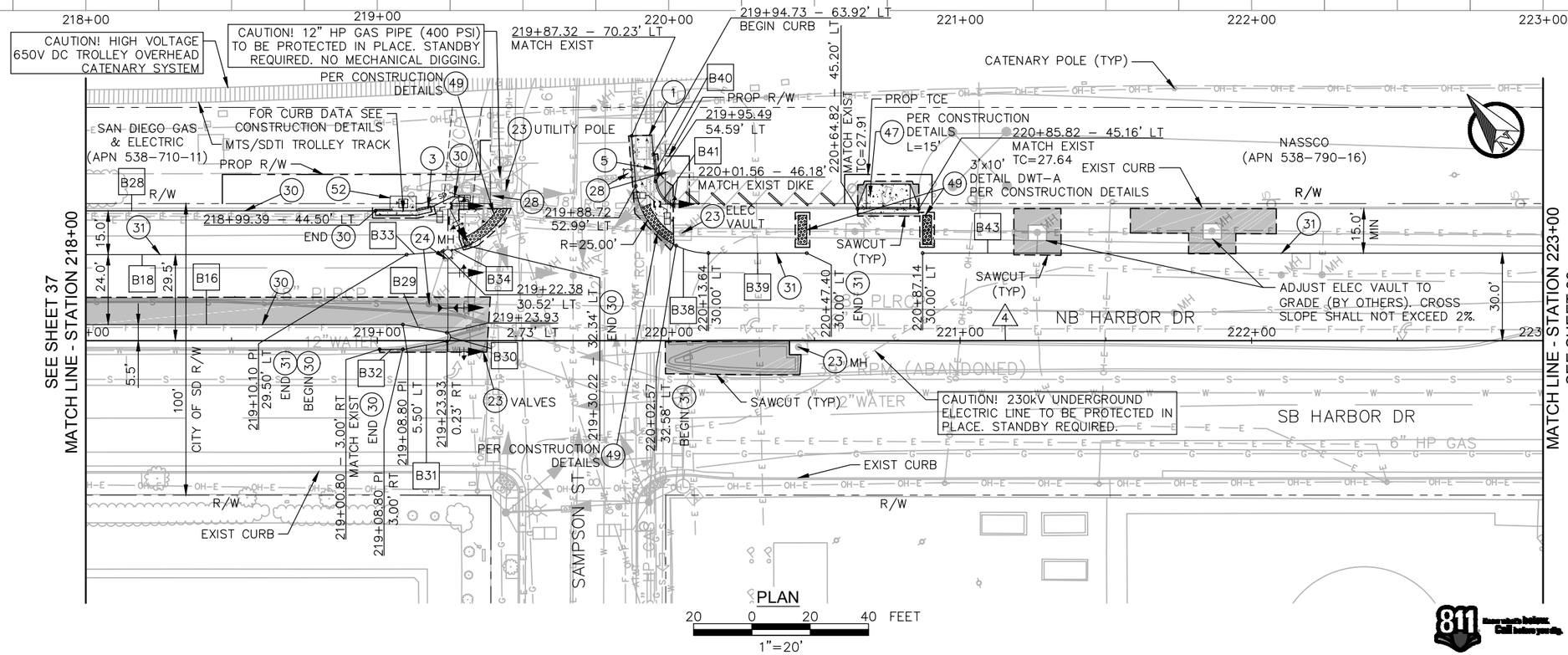
CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
B16	S 50°08'25" E	–	1349.16'
B18	S 50°08'25" E	–	1350.28'
B28	S 50°08'25" E	–	640.39'
B29	S 39°45'05" E	–	15.39'
B30	159°13'20"	1.50'	4.17'
B31	N 60°31'44" W	–	15.39'
B32	N 50°08'25" W	–	8.00'
B33	S 54°54'09" W	–	12.32'
B34	16°31'11"	28.00'	8.07'
B38	26°16'40"	25.00'	11.47'
B39	N 50°08'25" W	–	33.76'
B40	S 35°14'29" W	–	9.36'
B41	62°29'07"	10.00'	10.90'
B43	S 50°08'25" E	–	390.31'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
4	S 50°08'25" E	2997.42'	--	--

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN
20 0 20 40 FEET
1"=20'

CONSTRUCTION NOTES

1. SIDEWALK PER SDG-155
3. 6" TYPE G CURB AND GUTTER PER SDG-151
5. TYPE B-1 CURB PER SDG-154
6. TYPE B-4 CURB PER SDG-154
23. PROTECT IN PLACE
24. ADJUST TO GRADE
28. SIGNAL MODIFICATION AND EQUIPMENT PER SIGNAL MODIFICATION PLANS
30. TYPE A HOT MIX AC DIKE PER SDRSD G-5
31. DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS
47. COMMERCIAL CONCRETE DRIVEWAY PER SDG-163
49. DETECTABLE WARNING TILE PER SDG-130
52. FILTERRA DRAINAGE IMPROVEMENT PER LANDSCAPE AND IRRIGATION PLANS

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 38 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370- 38-D

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Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

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CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

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CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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5/5/2019 5:27:08 PM

NOT FOR CONSTRUCTION – MAY 6, 2019

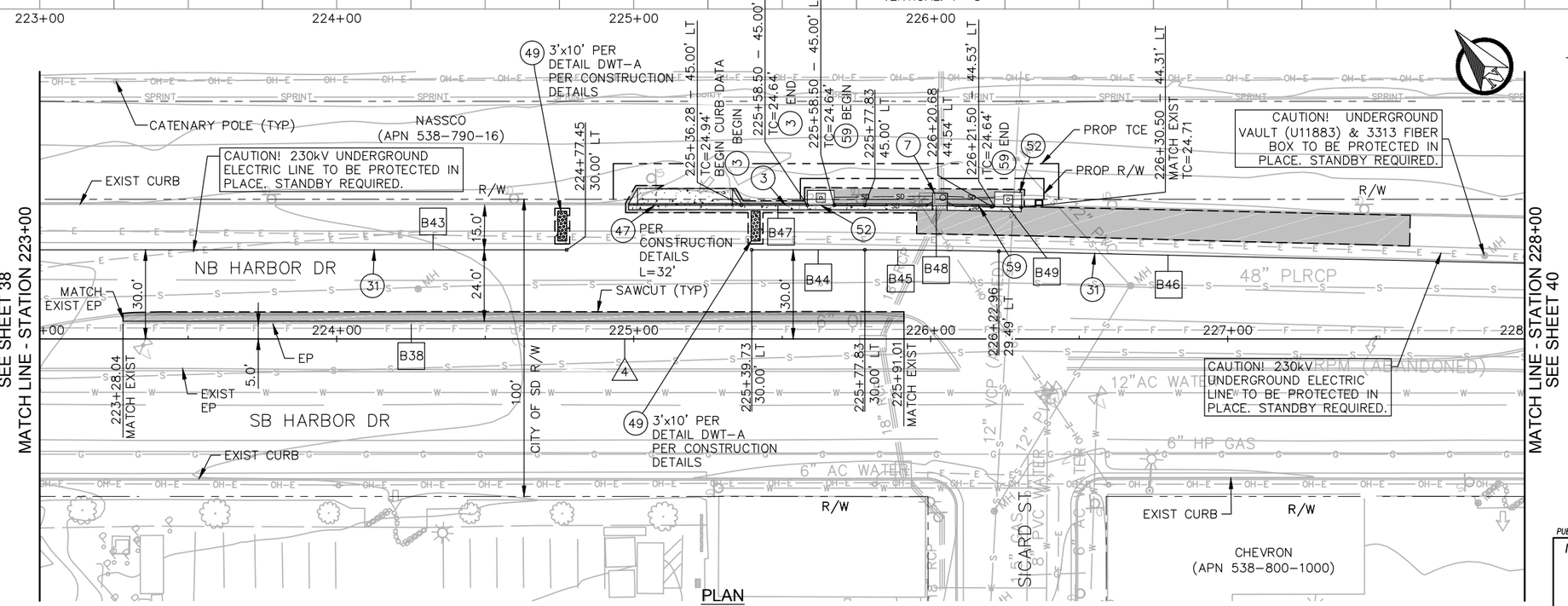
CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
B43	S 50°08'25" E	–	390.31'
B44	S 50°08'25" E	–	38.11''
B45	1°17'51"	1993.00'	45.13'
B46	S 48°50'34" E	–	197.11'
B47	S 50°08'25" E	–	41.55'
B48	1°30'10"	2008.00'	52.67'
B49	S 48°54'57" E	–	20.34'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
4	S 50°08'25" E	2997.42'	--	--

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



CONSTRUCTION NOTES

3 6" TYPE G CURB AND GUTTER PER SDG-151
5 TYPE B-1 CURB PER SDG-154
7 DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
9 INLET TRANSITION PROFILE AND MODIFIED TYPE G CURB AND GUTTER (TYPE B) PER CONSTRUCTION DETAILS
31 DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS
47 COMMERCIAL CONCRETE DRIVEWAY PER SDG-163
49 DETECTABLE WARNING TILE PER SDG-130
52 FILTERRA DRAINAGE IMPROVEMENT PER LANDSCAPE AND IRRIGATION PLANS
59 18" SLOTTED CORRUGATED STEEL PIPE (CURB AND GUTTER) PER DRAINAGE AND GRADING PLANS

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 39 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 39-D

0 1/2 1
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Quality Infrastructure Corporation
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619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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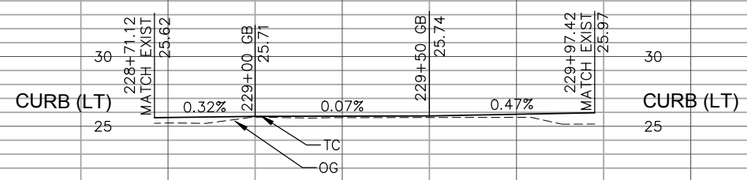


CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
B46	S 48°50'34" E	–	197.11'
B50	1°17'51"	4000.00'	90.58'
B51	S 50°08'25" E	–	86.82'
B52	4°08'30"	1826.00'	131.99'
B53	0°34'03"	3985.00'	39.48'
B54	S 50°08'25" E	–	86.82'
B55	N 83°41'14" E	–	30.24'
C1	8°10'02"	1828.00'	260.57'

ALIGNMENT DATA

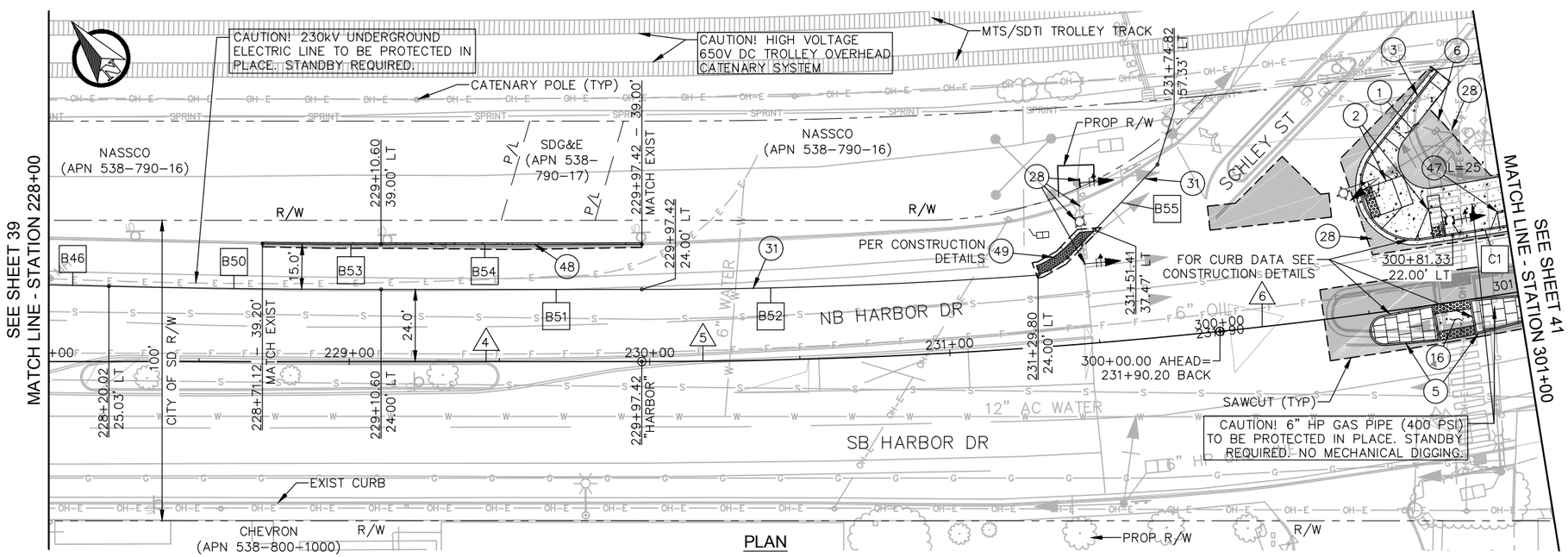
No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
4	S 50°08'25" E	2997.42'	--	--
5	5°58'14"	192.78'	1850.00'	96.48'
6	10°41'09"	345.03'	1850.00'	173.02'

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

228+00 229+00 230+00 231+00 300+00 301+00

CONSTRUCTION NOTES

1. SIDEWALK PER SDG-155
2. MODIFIED CURB RAMP PER CONSTRUCTION DETAILS
3. 6" TYPE G CURB AND GUTTER PER SDG-151
5. TYPE B-1 CURB PER SDG-154
6. TYPE B-4 CURB PER SDG-154
16. STRAIGHT PASSAGEWAY PER CONSTRUCTION DETAILS
28. SIGNAL MODIFICATION AND EQUIPMENT PER SIGNAL MODIFICATION PLANS
31. DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS
47. COMMERCIAL CONCRETE DRIVEWAY PER SDG-163
48. 8" CURB PER SDG-150
49. DETECTABLE WARNING TILE PER SDG-130



PLAN
20 0 20 40 FEET
1"=20'

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 40 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 40 **-D**

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www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
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DRAWING NO. –
SHEET NO.

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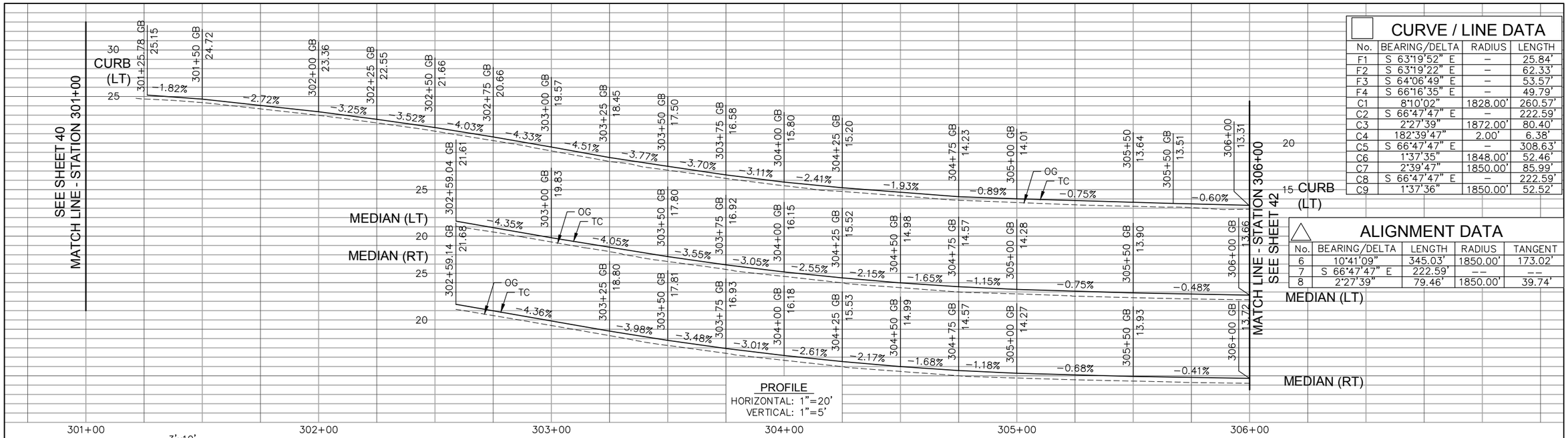


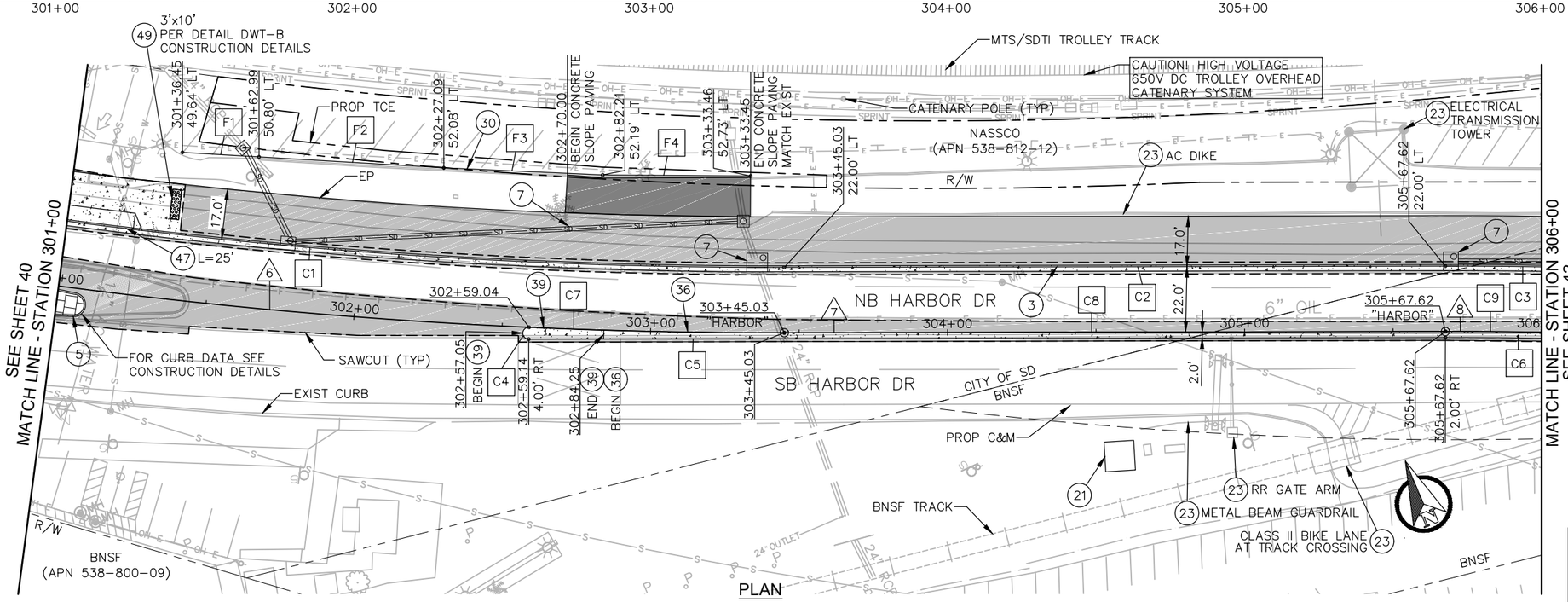
PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
F1	S 63°19'52" E	–	25.84'
F2	S 63°19'22" E	–	62.33'
F3	S 64°06'49" E	–	53.57'
F4	S 66°16'35" E	–	49.79'
C1	8°10'02"	1828.00'	260.57'
C2	S 66°47'47" E	–	222.59'
C3	2°27'39"	1872.00'	80.40'
C4	182°39'47"	2.00'	6.38'
C5	S 66°47'47" E	–	308.63'
C6	1°37'35"	1848.00'	52.46'
C7	2°39'47"	1850.00'	85.99'
C8	S 66°47'47" E	–	222.59'
C9	1°37'36"	1850.00'	52.52'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
6	10°41'09"	345.03'	1850.00'	173.02'
7	S 66°47'47" E	222.59'	--	--
8	2°27'39"	79.46'	1850.00'	39.74'



PLAN
20 0 20 40 FEET
1"=20'

CONSTRUCTION NOTES

1. SIDEWALK PER SDG-155
3. 6" TYPE G CURB AND GUTTER PER SDG-151
5. TYPE B-1 CURB PER SDG-154
7. DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
21. 10'X10' RAILROAD SIGNAL BUNGALOW – BY OTHERS
23. PROTECT IN PLACE
30. TYPE A HOT MIX AC DIKE PER SDRSD G-5
36. 2' CONTINUOUS MONOLITHIC MEDIAN PER CONSTRUCTION DETAILS
39. 3' CONTINUOUS MONOLITHIC MEDIAN PER CONSTRUCTION DETAILS
47. COMMERCIAL CONCRETE DRIVEWAY PER SDG-163
49. DETECTABLE WARNING TILE PER SDG-130

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 41 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 41 -D

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La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

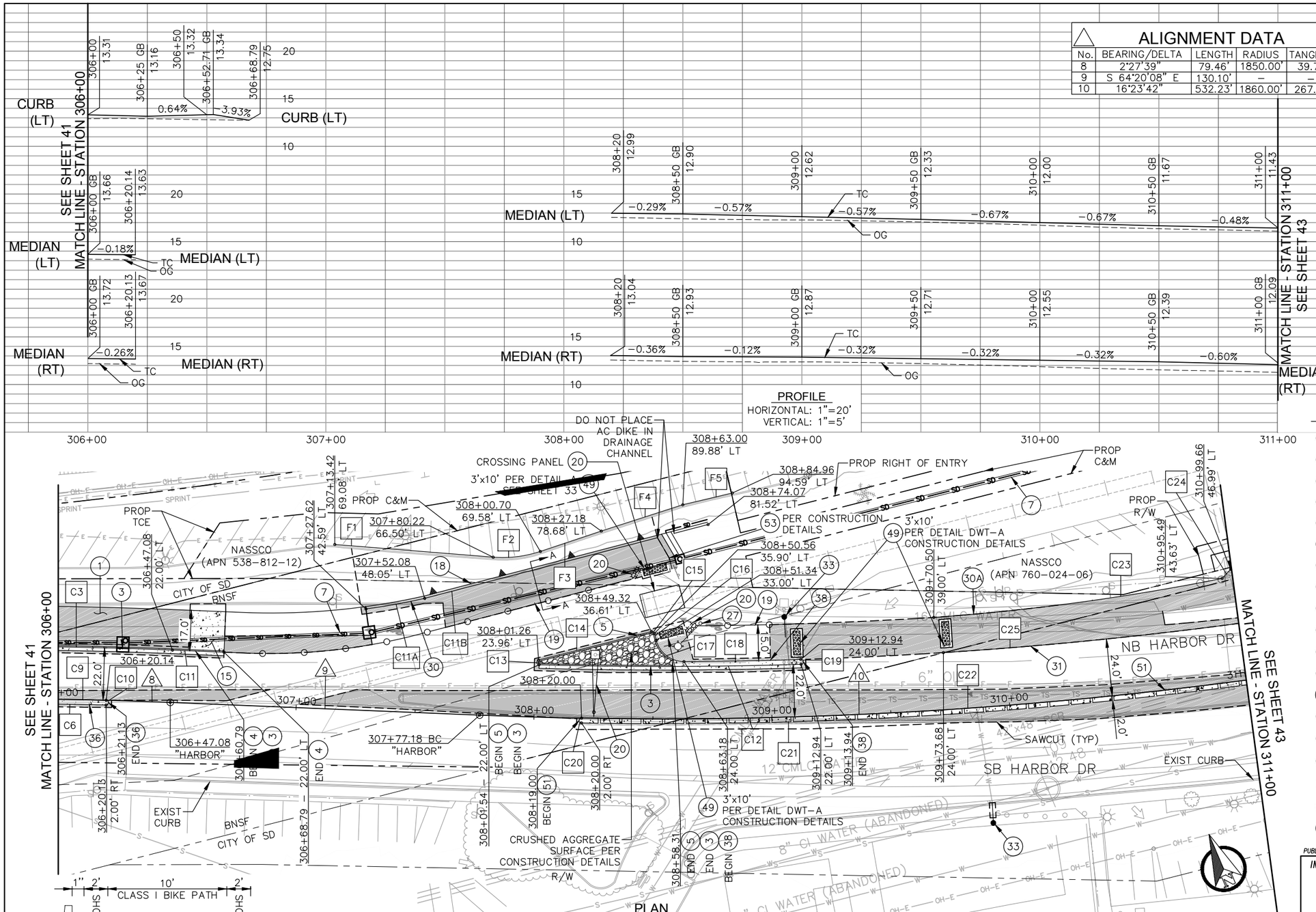
REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 5:48:09 PM



PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
8	2°27'39"	79.46'	1850.00'	39.74'
9	S 64°20'08" E	130.10'	–	–
10	16°23'42"	532.23'	1860.00'	267.95'

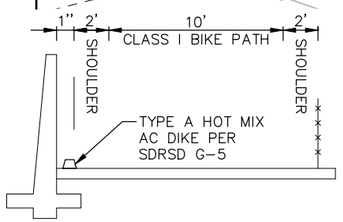
CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
F1	S 62°06'56" E	–	66.75'
F2	23°02'22"	50.00'	20.11'
F3	S 85°09'17" E	–	27.00'
F4	S 84°34'09" E	–	35.99'
F5	S 80°01'33" E	–	21.23'
C3	2°27'39"	1872.00'	80.40'
C6	1°37'35"	1848.00'	52.46'
C9	1°37'36"	1850.00'	52.52'
C10	180°00'00"	1.00'	3.14'
C11	S 64°20'08" E	–	21.71'
C11A	4°53'07"	294.00'	25.07'
C11B	S 81°17'17" E	–	123.05'
C12	3°25'54"	1838.00'	110.08'
C13	164°15'22"	1.00'	2.87'
C14	S 80°47'60" E	–	47.93'
C15	90°00'00"	1.00'	1.57'
C16	S 8°42'43" W	–	3.00'
C17	75°41'48"	12.00'	15.85'
C18	1°31'58"	1836.00'	49.12'
C19	180°00'00"	1.00'	3.14'
C20	180°00'00"	1.00'	3.14'
C21	15°04'33"	1862.00'	489.94'
C22	15°04'33"	1860.00'	489.41'
C23	7°07'54"	983.00'	122.36'
C24	N 66°11'08" E	–	5.28'
C25	10°20'30"	1836.00'	331.40'

CONSTRUCTION NOTES

1. SIDEWALK PER SDG-155
3. 6" TYPE G CURB AND GUTTER PER SDG-151
4. TYPE G CURB & GUTTER (MOD)
5. TYPE B-1 CURB PER SDG-154
7. DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
15. MINOR CONCRETE RAMP PER CONSTRUCTION DETAILS
18. RETAINING WALL PER RETAINING WALL PLANS
19. VINYL COATED CHAIN LINK FENCE (H=4') PER SDM-112
20. RAILROAD EQUIPMENT – BY OTHERS
23. PROTECT IN PLACE
27. STREET LIGHT AND EQUIPMENT PER LIGHTING PLANS
30. TYPE A HOT MIX AC DIKE PER SDRSD G-5
30A. TYPE B HOT MIX AC DIKE PER SDRSD G-5
33. COMBINATION AIR AND VACUUM VALVE AND ENCLOSURE PER SDW-117, SDW-159
36. 2' CONTINUOUS MONOLITHIC MEDIAN (TYPE A) PER CONSTRUCTION DETAILS
38. 2' CONTINUOUS MONOLITHIC MEDIAN (TYPE B-RT) PER CONSTRUCTION DETAILS
49. DETECTABLE WARNING TILE PER SDG-130
51. 2' DISCONTINUOUS MONOLITHIC MEDIAN PER CONSTRUCTION DETAILS
53. PIPE GUARDRAIL – POST TYPE PER SDM-118

PLAN
20 0 20 40 FEET
1"=20'



SECTION A-A

0 1/2 1
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STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 42 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

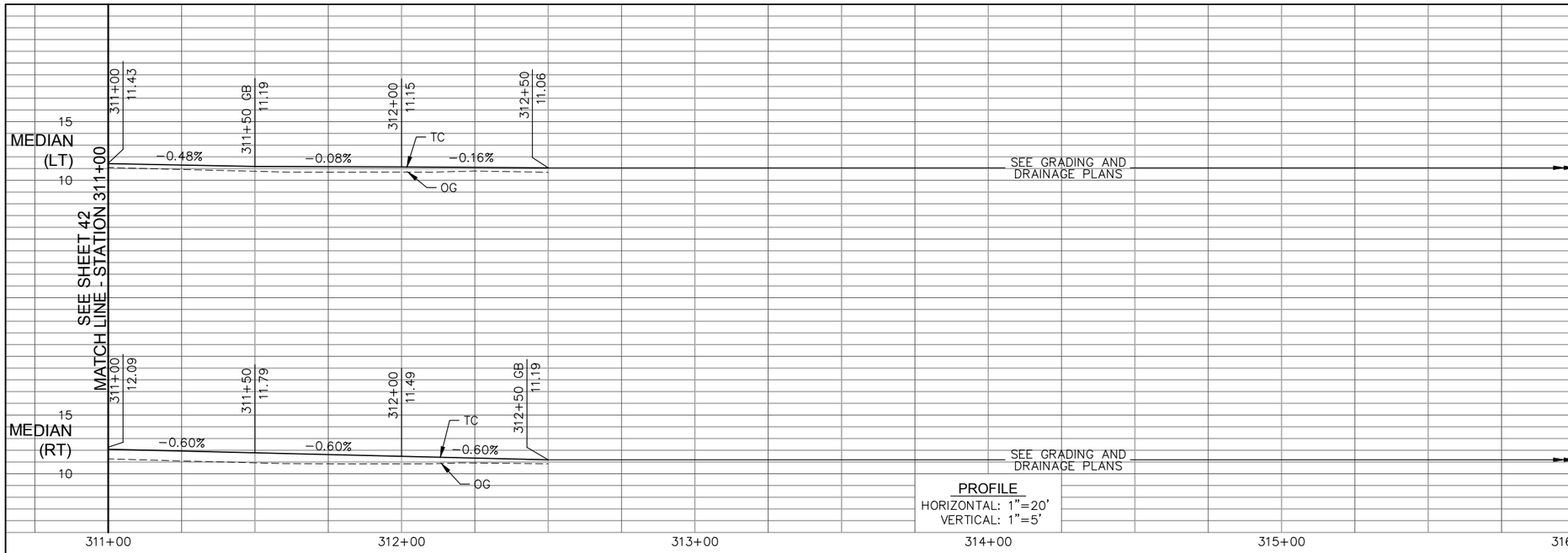
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 42 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 5:55:32 PM

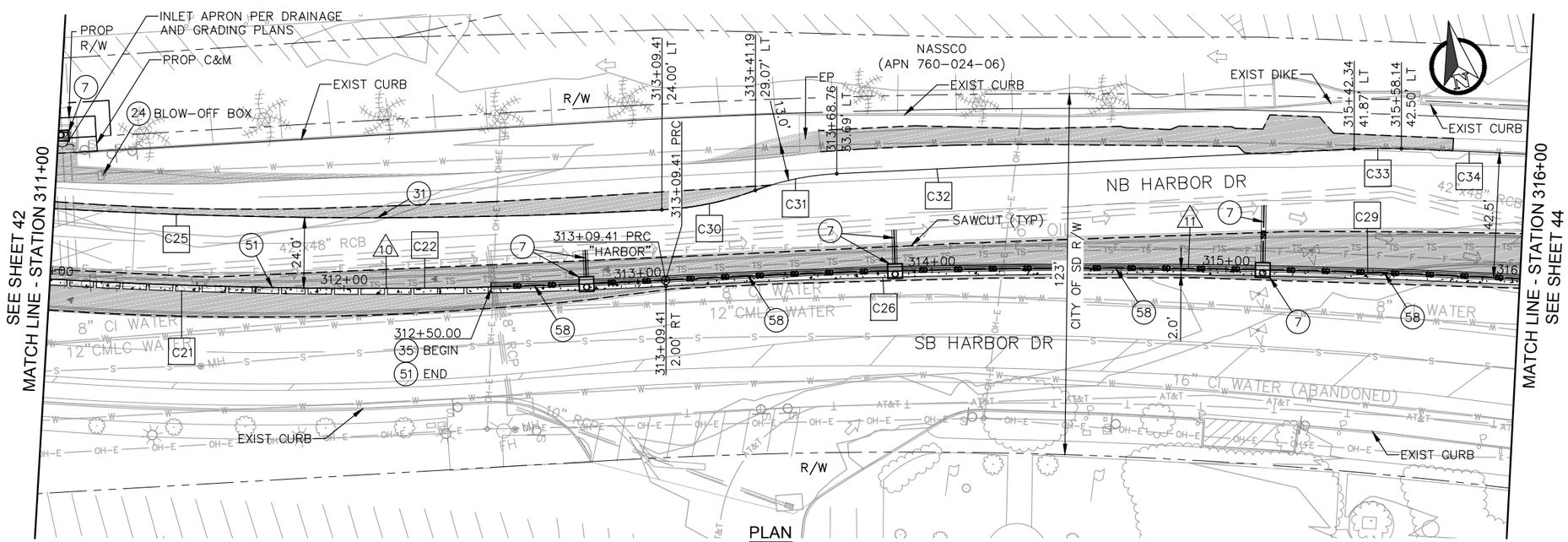


CURVE / LINE DATA

No.	BEARING/DELTA	RADIUS	LENGTH
C21	15°04'33"	1862.00'	489.94'
C22	15°04'33"	1860.00'	489.41'
C25	10°20'30"	1836.00'	331.40'
C26	9°26'33"	2758.00'	454.53'
C29	9°26'33"	2760.00'	454.86'
C30	17°17'59"	108.00'	32.61'
C31	17°40'17"	92.00'	28.38'
C32	S 80°21'32" E	–	176.11'
C33	4°47'30"	192.00'	16.06'
C34	2°00'33"	2802.50	98.27'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
10	16°23'42"	532.23'	1860.00'	267.95'
11	10°55'55"	526.60'	2760.00'	264.10'



CONSTRUCTION NOTES

5 TYPE B-1 CURB PER SDG-154

7 DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS

23 PROTECT IN PLACE

24 ADJUST TO GRADE

29 LEFT TURN MEDIAN TRANSITION PER SDM-101

31 DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS

51 2' DISCONTINUOUS MONOLITHIC MEDIAN PER CONSTRUCTION DETAILS

58 18" SLOTTED CORRUGATED STEEL PIPE (MONOLITHIC MEDIAN) PER DRAINAGE AND GRADING PLANS

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 43 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES

XXX-XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 43-D

0 1/2 1

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Quality Infrastructure Corporation
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La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
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SHEET NO.

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NOT FOR CONSTRUCTION – MAY 6, 2019

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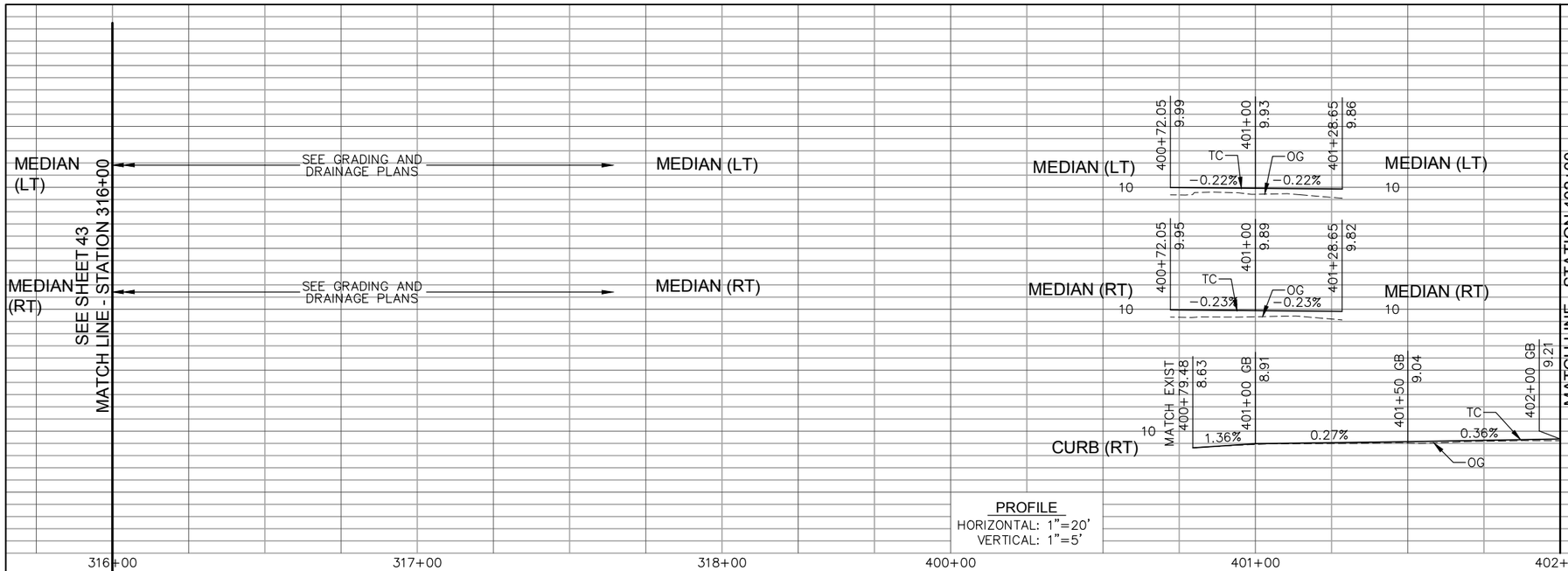


PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

CURVE / LINE DATA

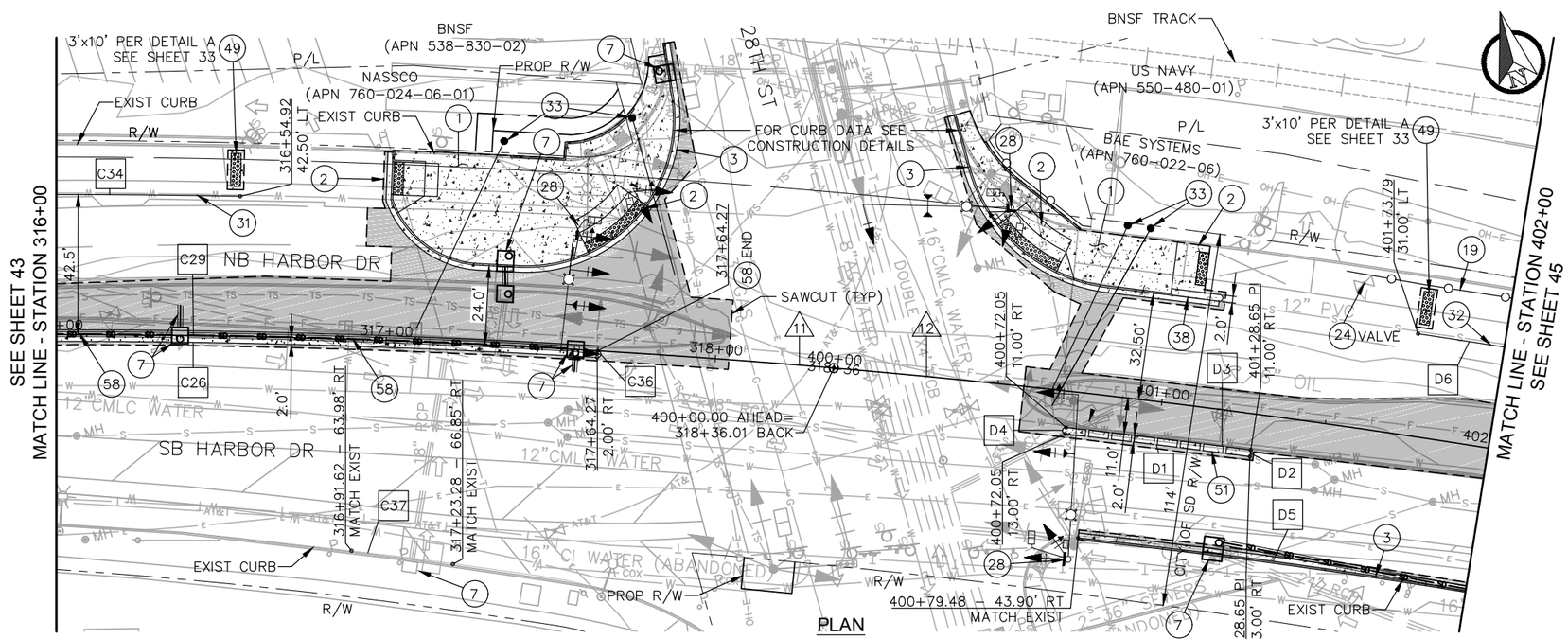
No.	BEARING/DELTA	RADIUS	LENGTH
C26	9°26'33"	2758.00'	454.53'
C29	9°26'33"	2760.00'	454.86'
C34	2°00'33"	2802.50	98.27'
C36	180°00'00"	1.00'	3.14'
C37	S 67°10'15" E	–	31.04'
D1	1°10'30"	2747.00'	56.33'
D2	N 22°52'19" E	–	2.00'
D3	1°10'31"	2749.00'	56.39'
D4	180°00'00"	1.00'	3.14'
D5	6°13'03"	1945.00'	211.06'
D6	0°54'23"	2791.00'	44.15'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
11	10°55'55"	526.60'	2760.00'	264.10'
12	19°35'54"	944.07'	2760.00'	476.69'

CONSTRUCTION NOTES

1. SIDEWALK PER SDG-155
2. MODIFIED CURB RAMP PER CONSTRUCTION DETAILS
3. 6" TYPE G CURB AND GUTTER PER SDG-151
5. TYPE B-1 CURB PER SDG-154
7. DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
19. VINYL COATED CHAIN LINK FENCE (H=4') PER SDM-112
23. PROTECT IN PLACE
24. ADJUST TO GRADE
28. SIGNAL MODIFICATION AND EQUIPMENT PER SIGNAL MODIFICATION PLANS
30. TYPE A HOT MIX AC DIKE PER SDRSD G-5
31. DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 5' O.C.) PER CONSTRUCTION DETAILS
32. DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS
33. RELOCATED COMBINATION AIR AND VACUUM VALVE AND ENCLOSURE PER CONSTRUCTION DETAILS
38. 2' CONTINUOUS MONOLITHIC MEDIAN (TYPE B-RT) PER CONSTRUCTION DETAILS
49. DETECTABLE WARNING TILE PER SDG-130
51. 2' DISCONTINUOUS MONOLITHIC MEDIAN PER CONSTRUCTION DETAILS
58. 18" SLOTTED CORRUGATED STEEL PIPE (MONOLITHIC MEDIAN) PER DRAINAGE AND GRADING PLANS



PLAN
20 0 20 40 FEET
1"=20'

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Quality Infrastructure Corporation
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La Mesa, CA 91942
619-741-9400
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

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SCALE: AS SHOWN
CONTRACT NO. –
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PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 44 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 44 -D

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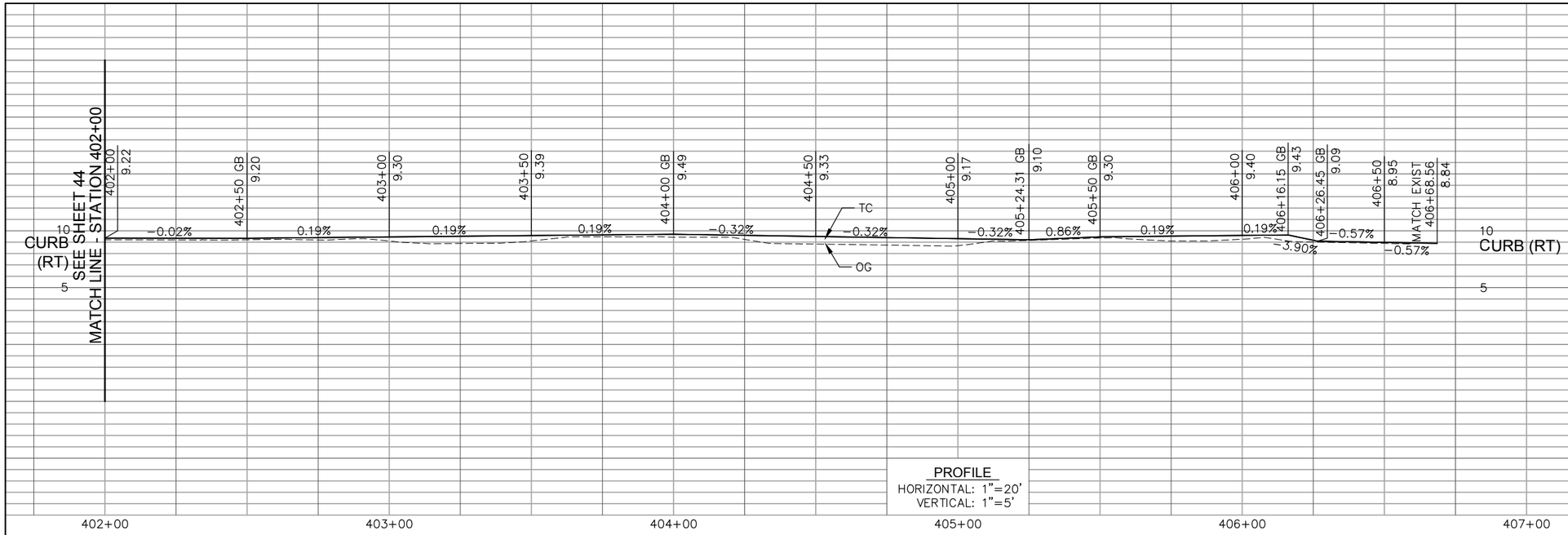


PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

CURVE / LINE DATA

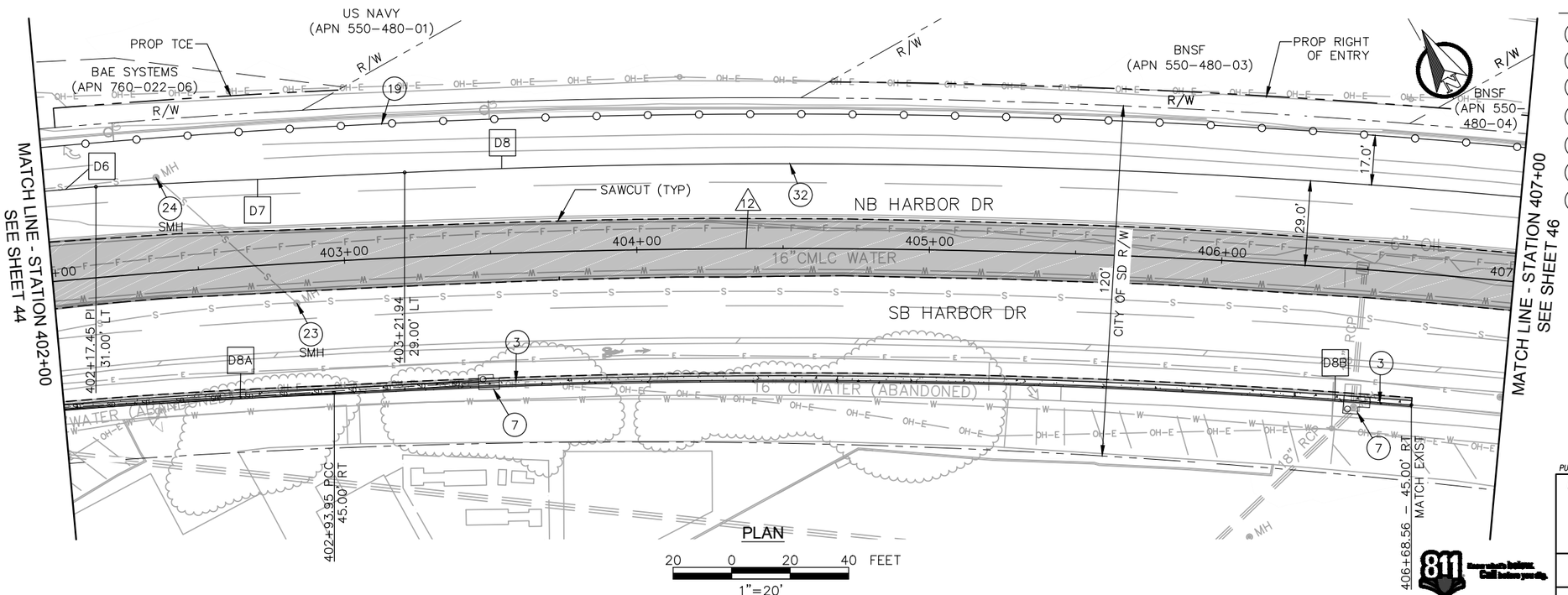
No.	BEARING/DELTA	RADIUS	LENGTH
D6	0°54'23"	2791.00'	44.15'
D7	S 63°06'55" E	–	105.64'
D8	12°54'54"	2789.00'	628.67'
D8A	6°13'3"	1945.00'	211.06'
D8B	7°46'36"	2715.00'	368.51'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
12	19°35'54"	944.07'	2760.00'	476.69'

CONSTRUCTION NOTES

(3) 6" TYPE G CURB AND GUTTER PER SDG-151
(5) TYPE B-1 CURB PER SDG-154
(7) DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
(19) VINYL COATED CHAIN LINK FENCE (H=4') PER SDM-112
(23) PROTECT IN PLACE
(24) ADJUST TO GRADE
(32) TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS



PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 45 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370- 45 **-D**

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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

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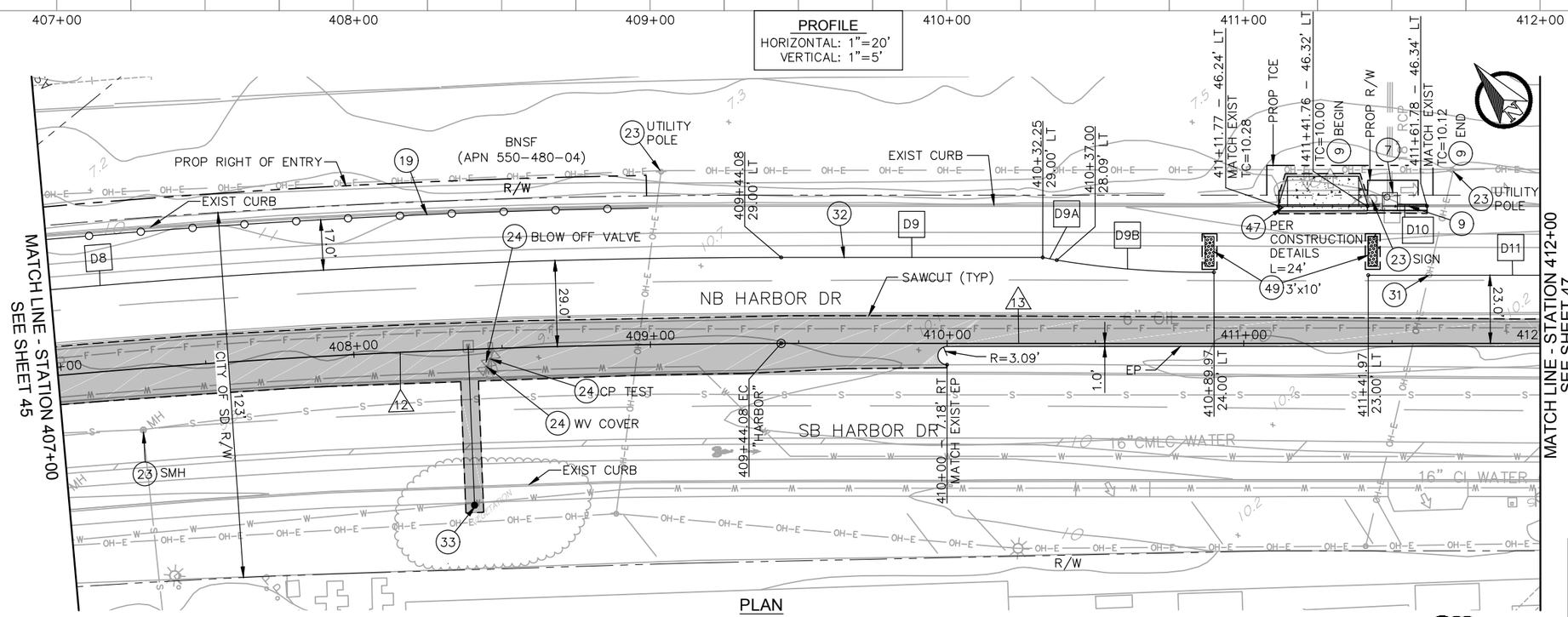
CURB DATA

No.	BEARING/DELTA	RADIUS	LENGTH
D8	12°54'54"	2789.00'	628.67'
D9	S 50°12'01" E	–	88.17'
D9A	S 39°18'44" E	–	4.84'
D9B	9°22'00"E	307.00'	50.19'
D10	S 50°15'02" E	–	20.26'
D11	S 50°12'01" E	–	223.04'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
12	19°35'54"	944.07'	2760.00'	476.69'
13	S 50°12'01" E	2453.50'	--	--



PLAN

20 0 20 40 FEET

1"=20'

CONSTRUCTION NOTES

7. DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
9. INLET TRANSITION PROFILE AND MODIFIED TYPE G CURB AND GUTTER (TYPE B) PER CONSTRUCTION DETAILS
19. VINYL COATED CHAIN LINK FENCE (H=4') PER SDM-112
23. PROTECT IN PLACE
24. ADJUST TO GRADE
31. DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS
32. DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 5' O.C.) PER CONSTRUCTION DETAILS
33. COMBINATION AIR AND VACUUM VALVE AND ENCLOSURE PER SDW-117, SDW-159
47. COMMERCIAL CONCRETE DRIVEWAY PER SDG-163
49. DETECTABLE WARNING TILE PER SDG-130

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PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 46 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
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AS-BUILTS				

1834-6287
NAD83 COORDINATES

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LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370- 46 -D

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www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

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CONTRACT NO. –
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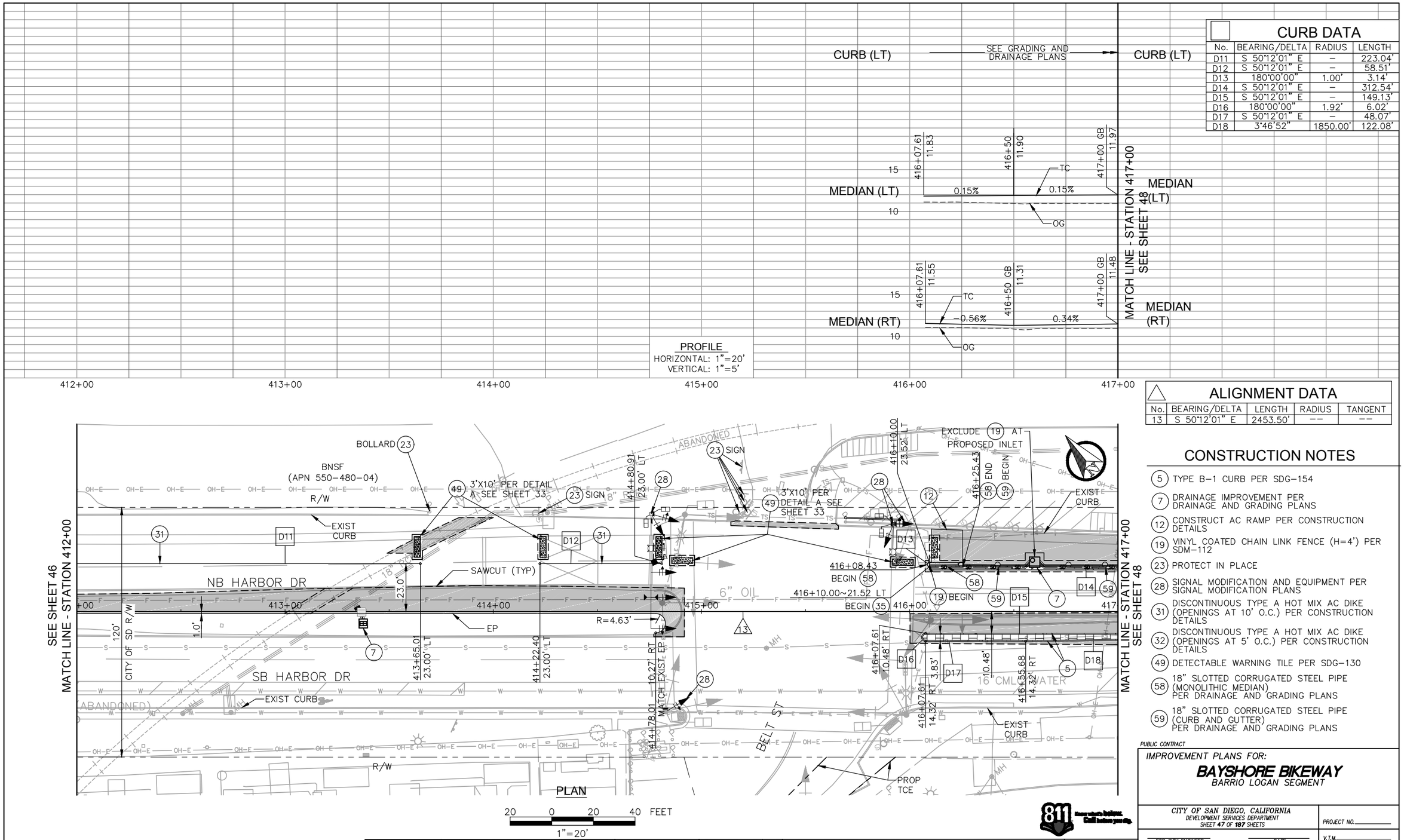

CURB DATA

No.	BEARING/DELTA	RADIUS	LENGTH
D11	S 50°12'01" E	–	223.04'
D12	S 50°12'01" E	–	58.51'
D13	180°00'00"	1.00'	3.14'
D14	S 50°12'01" E	–	312.54'
D15	S 50°12'01" E	–	149.13'
D16	180°00'00"	1.92'	6.02'
D17	S 50°12'01" E	–	48.07'
D18	3°46'52"	1850.00'	122.08'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
13	S 50°12'01" E	2453.50'	--	--

CONSTRUCTION NOTES

- (5) TYPE B-1 CURB PER SDG-154
- (7) DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
- (12) CONSTRUCT AC RAMP PER CONSTRUCTION DETAILS
- (19) VINYL COATED CHAIN LINK FENCE (H=4') PER SDM-112
- (23) PROTECT IN PLACE
- (28) SIGNAL MODIFICATION AND EQUIPMENT PER SIGNAL MODIFICATION PLANS
- (31) DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 10' O.C.) PER CONSTRUCTION DETAILS
- (32) DISCONTINUOUS TYPE A HOT MIX AC DIKE (OPENINGS AT 5' O.C.) PER CONSTRUCTION DETAILS
- (49) DETECTABLE WARNING TILE PER SDG-130
- (58) 18" SLOTTED CORRUGATED STEEL PIPE (MONOLITHIC MEDIAN) PER DRAINAGE AND GRADING PLANS
- (59) 18" SLOTTED CORRUGATED STEEL PIPE (CURB AND GUTTER) PER DRAINAGE AND GRADING PLANS

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 47 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

1834-6287 NAD83 COORDINATES

XXX-XXXX LAMBERT COORDINATES

41370- 47 **-D**

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www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER — ALEC E. RIVERA — No. 87936 — Exp. 12/31/19 — CIVIL — STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SCALE: AS SHOWN
CONTRACT NO. –
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SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

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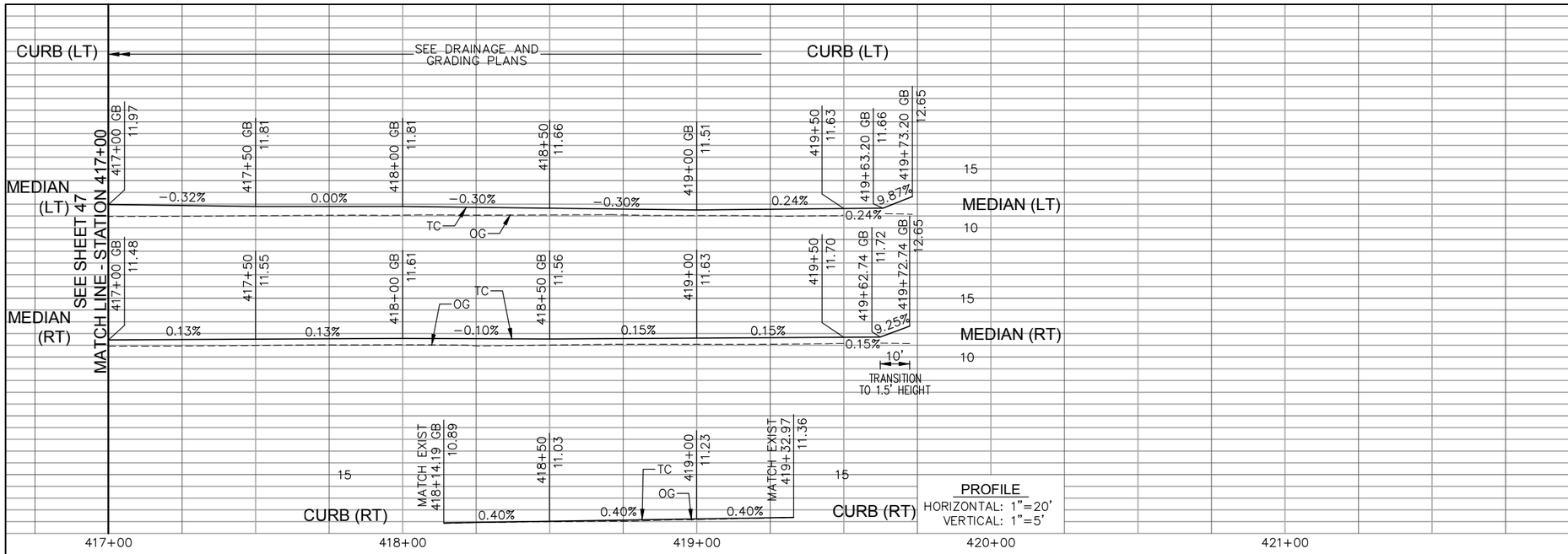


CURB DATA

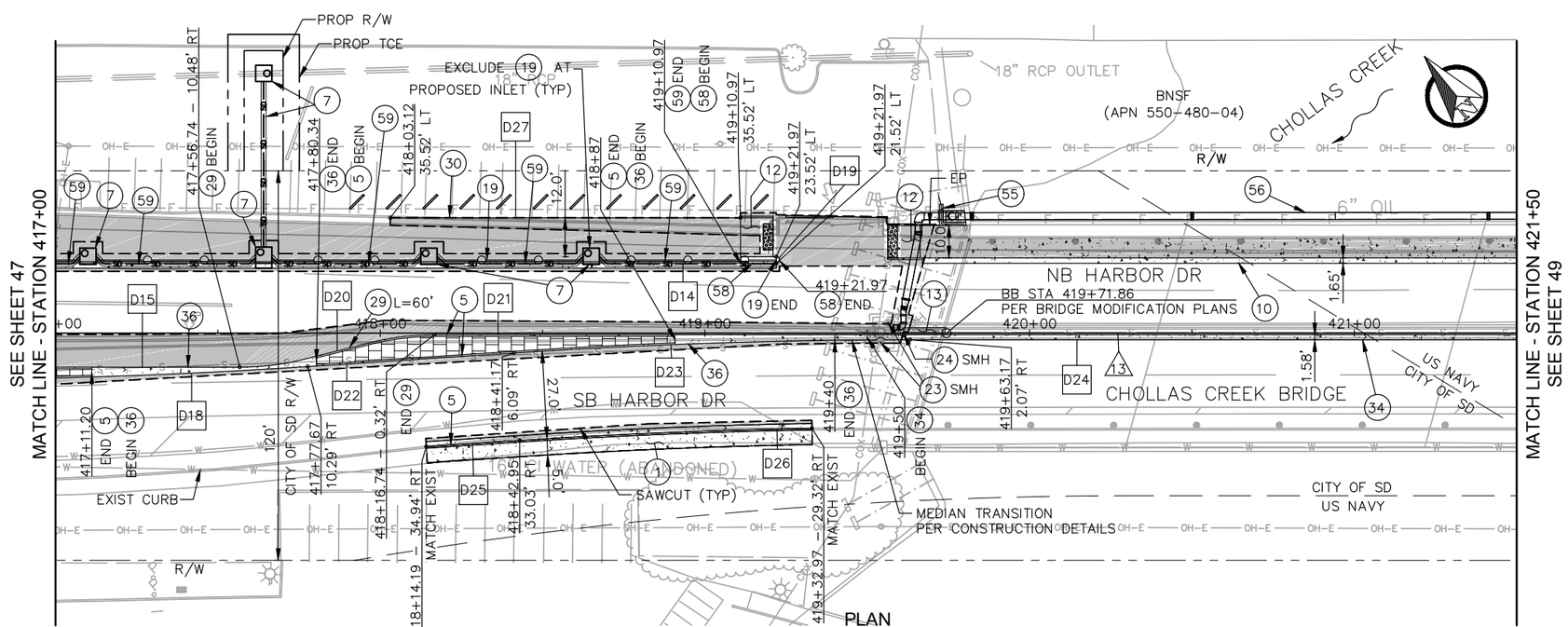
No.	BEARING/DELTA	RADIUS	LENGTH
D14	S 50°12'01" E	–	312.54'
D15	S 50°12'01" E	–	149.13'
D18	3°46'52"	1850.00'	122.08'
D19	180°00'00"	1.00'	3.14'
D20	PER SDM-101		
D21	S 50°12'01"	–	388.95'
D22	S 53°58'53" E	–	63.64'
D23	3°41'50"	1850.00	119.38'
D24	S 50°12'01" E	–	348.02'
D25	S 53°58'53" E	–	28.83'
D26	2°49'55"	1823.00	90.11'
D27	S 50°12'01" E	–	107.85'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
13	S 50°12'01" E	2453.50'	--	--

CONSTRUCTION NOTES

1. SIDEWALK PER SDG-115
5. TYPE B-1 CURB PER SDG-154
7. DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
10. CONCRETE BARRIER ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
12. AC RAMP PER CONSTRUCTION DETAILS
13. AC OVERLAY ON APPROACH SLAB PER BRIDGE MODIFICATION PLANS
14. MINOR CONCRETE ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
19. VINYL COATED CHAIN LINK FENCE (H=4') PER SDM-112
23. PROTECT IN PLACE
24. ADJUST TO GRADE
29. LEFT TURN MEDIAN TRANSITION PER SDM-101
30. TYPE A HOT MIX AC DIKE PER SDRSD G-5
34. CONCRETE RAISED MEDIAN ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
36. 2' CONTINUOUS MONOLITHIC MEDIAN (TYPE A) PER CONSTRUCTION DETAILS
44. 2' CONTINUOUS MONOLITHIC MEDIAN (SURFACE MOUNTED) PER CONSTRUCTION DETAILS
55. TYPE B GRAVITY RETAINING WALL (H=3') PER CONSTRUCTION DETAILS
56. SEWER SIPHON AIR JUMPER PER AIR JUMPER PLANS
58. 18" SLOTTED CORRUGATED STEEL PIPE (MONOLITHIC MEDIAN) PER DRAINAGE AND GRADING PLANS
59. 18" SLOTTED CORRUGATED STEEL PIPE (CURB AND GUTTER) PER DRAINAGE AND GRADING PLANS



PLAN

20 0 20 40 FEET

1"=20'

0 1/2 1

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CIVIL
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DRAWN BY	A. RAMIREZ	5/19
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SANDAG PRJ MGR	E. RODRIGUEZ	5/19

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PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 48 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 48 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

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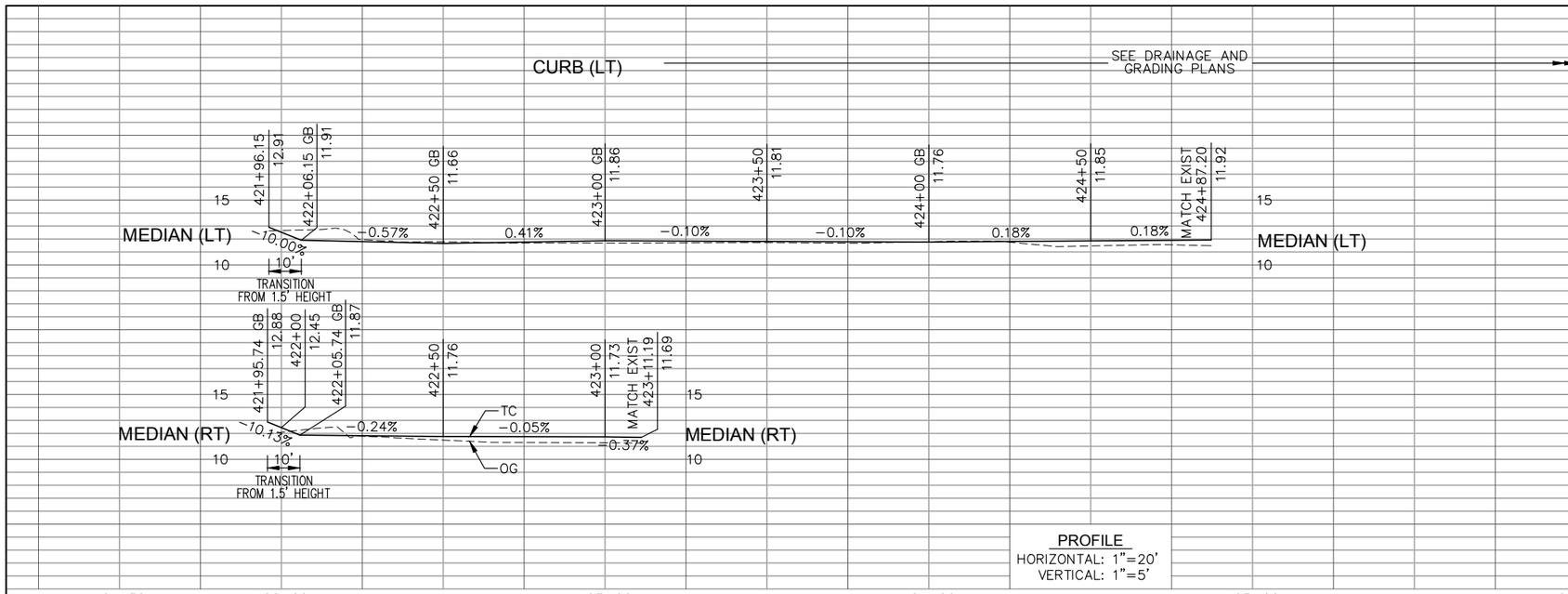


CURB DATA

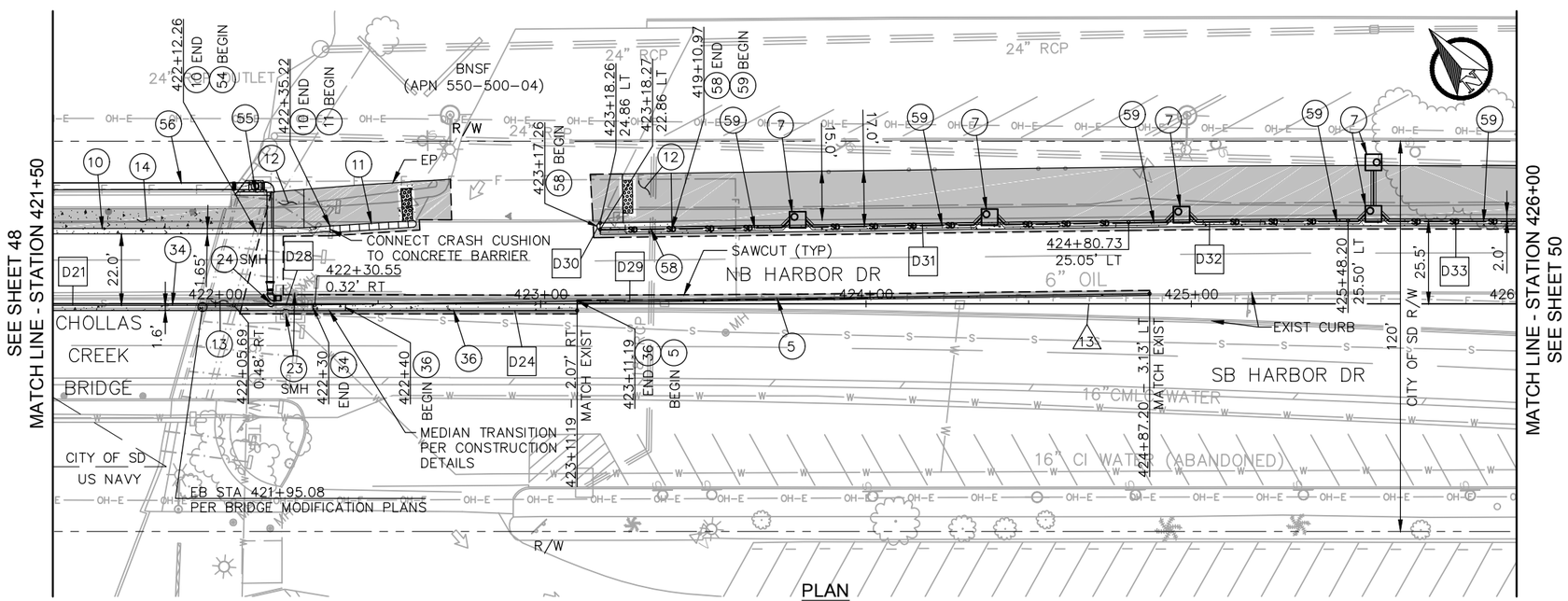
No.	BEARING/DELTA	RADIUS	LENGTH
D21	S 50°12'01" E	–	388.95'
D24	S 50°12'01" E	–	348.02'
D28	0°46'11"	1850.00'	24.86'
D29	S 50°58'12" E	–	256.68'
D30	180°00'00"	1.00'	3.14'
D31	S 50°58'12" E	–	162.46'
D32	0°46'11"	5022.00'	67.47'
D33	S 50°12'01" E	–	265.31'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
13	S 50°12'01" E	2453.50'	--	--

CONSTRUCTION NOTES

- (5) TYPE B-1 CURB PER SDG-154
- (7) DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
- (10) CONCRETE BARRIER ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
- (11) CRASH CUSHION PER SPECIFICATIONS
- (12) AC RAMP PER CONSTRUCTION DETAILS
- (13) AC OVERLAY ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
- (14) MINOR CONCRETE ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
- (23) PROTECT IN PLACE
- (24) ADJUST TO GRADE
- (34) CONCRETE RAISED MEDIAN ON BRIDGE DECK PER BRIDGE MODIFICATION PLANS
- (36) 2' CONTINUOUS MONOLITHIC MEDIAN (TYPE A) PER CONSTRUCTION DETAILS
- (54) CONCRETE BARRIER TYPE 836B PER RSP B11-80
- (55) TYPE B GRAVITY RETAINING WALL (H=3') PER CONSTRUCTION DETAILS
- (56) SEWER SIPHON AIR JUMPER PER AIR JUMPER PLANS
- (58) 18" SLOTTED CORRUGATED STEEL PIPE (MONOLITHIC MEDIAN) PER DRAINAGE AND GRADING PLANS
- (59) 18" SLOTTED CORRUGATED STEEL PIPE (CURB AND GUTTER) PER DRAINAGE AND GRADING PLANS



0 1/2 1

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DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 49 OF 187 SHEETS

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

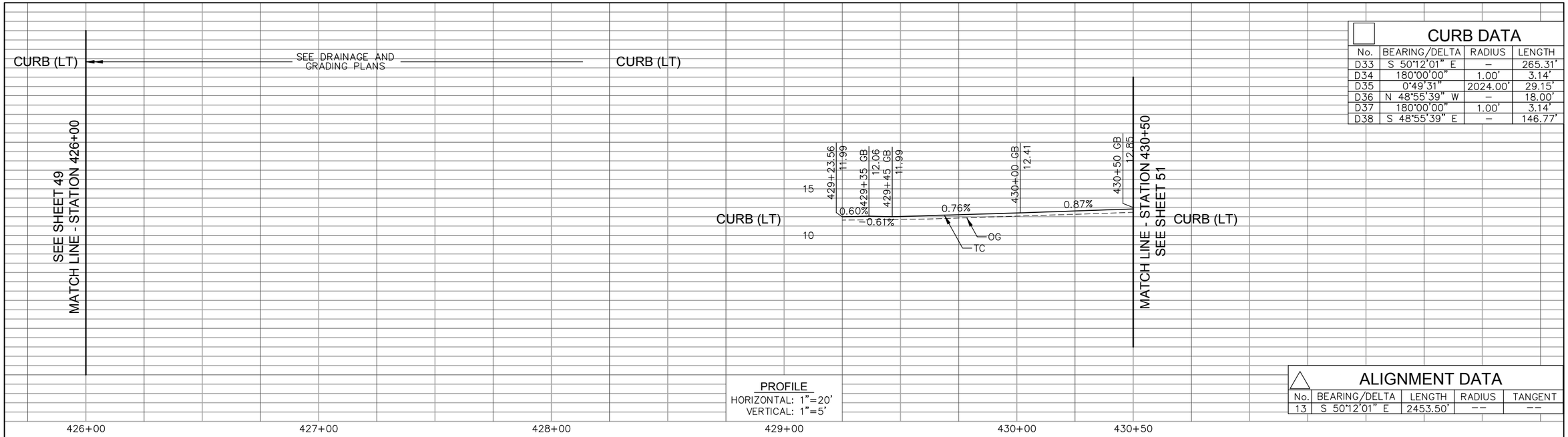
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

41370- 49 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 6:23:24 PM



PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

CURB DATA

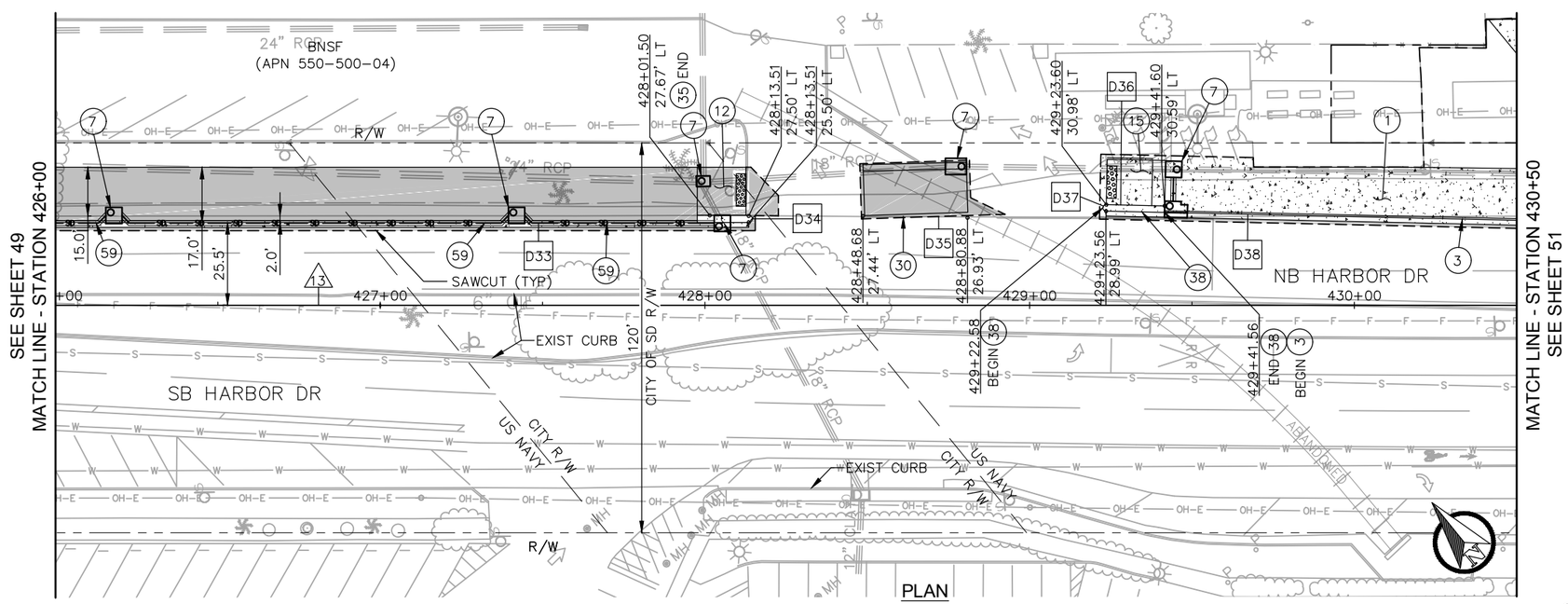
No.	BEARING/DELTA	RADIUS	LENGTH
D33	S 50°12'01" E	–	265.31'
D34	180°00'00"	1.00'	3.14'
D35	0°49'31"	2024.00'	29.15'
D36	N 48°55'39" W	–	18.00'
D37	180°00'00"	1.00'	3.14'
D38	S 48°55'39" E	–	146.77'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
13	S 50°12'01" E	2453.50'	--	--

CONSTRUCTION NOTES

1. SIDEWALK PER SDG-115
3. 6" TYPE G CURB AND GUTTER PER SDG-151
7. DRAINAGE IMPROVEMENT PER DRAINAGE AND GRADING PLANS
12. AC RAMP PER CONSTRUCTION DETAILS
15. MINOR CONCRETE RAMP PER CONSTRUCTION DETAILS
30. TYPE A HOT MIX AC DIKE PER SDRSD G-5
38. 2' CONTINUOUS MONOLITHIC MEDIAN (TYPE B-RT) PER CONSTRUCTION DETAILS
59. 18" SLOTTED CORRUGATED STEEL PIPE (CURB AND GUTTER) PER DRAINAGE AND GRADING PLANS



PLAN

20 0 20 40 FEET
1"=20'

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 50 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

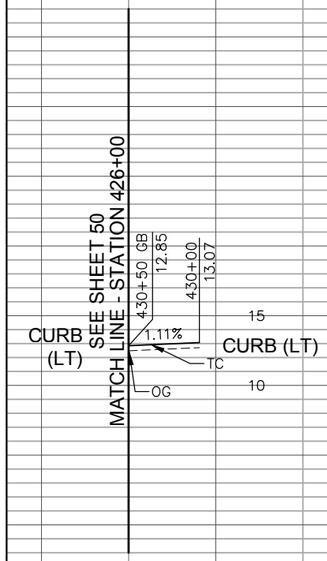
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 50-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 6:31:01 PM



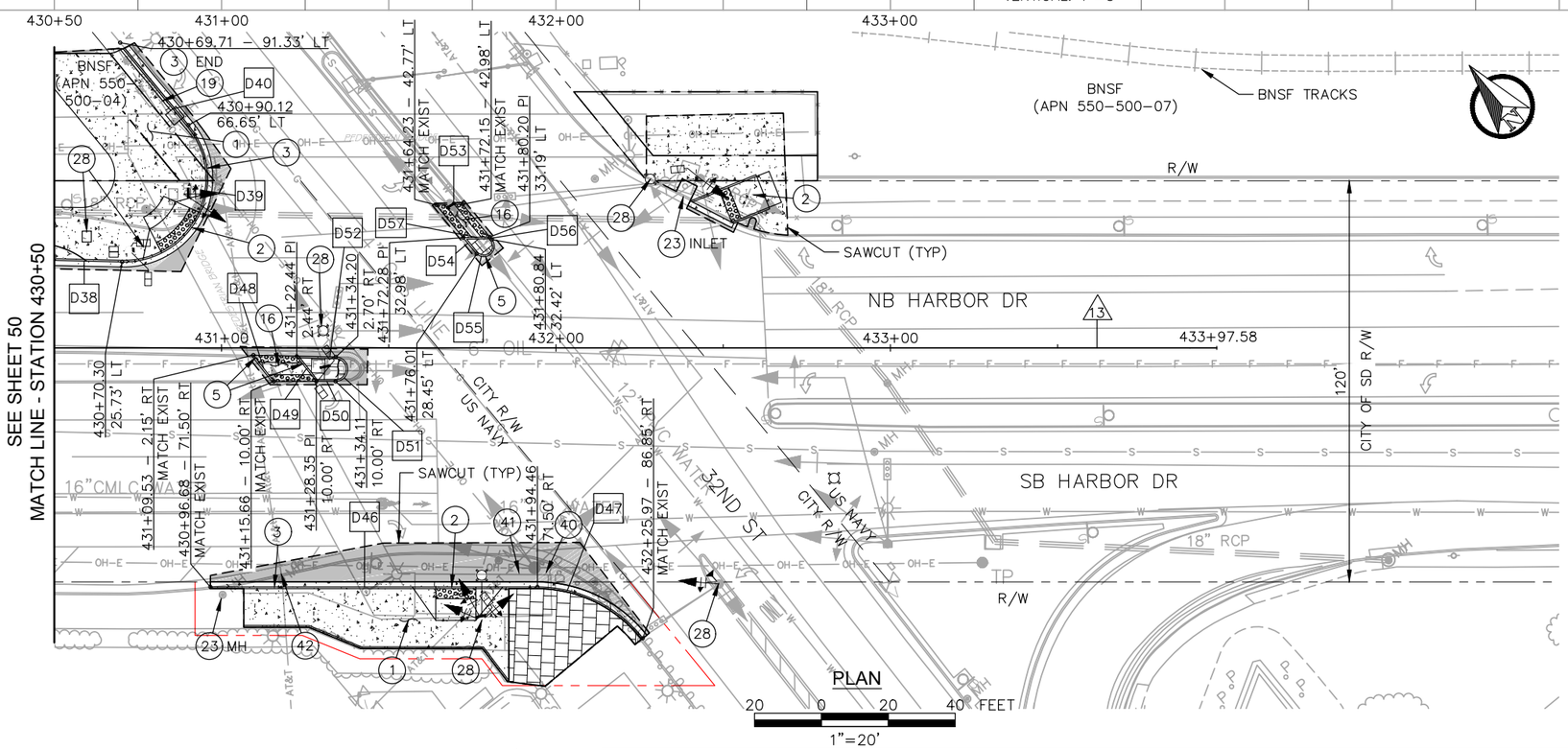
CURB DATA

No.	BEARING/DELTA	RADIUS	LENGTH
D38	S 48°55'39" E	–	146.77'
D39	130°52'15"	25.00'	57.10'
D40	N 0°12'06" E	–	32.02'
D46	S 50°12'01" E	–	97.78'
D47	51°57'55"	40.00	36.28'
D48	S 1°47'47" W	–	9.96'
D49	S 1°47'47" W	–	9.59'
D50	S 50°12'01" E	–	5.76'
D51	178°43'38"	3.65'	11.39'
D52	N 48°55'39" W	–	11.75
D53	S 51°44'10" E	–	7.92'
D54	S 0°20'22" W	–	5.87'
D55	180°00'00"	3.13'	9.82'
D56	N 0°20'22" E	–	1.00'
D57	N 51°44'10" W	–	7.92'

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

ALIGNMENT DATA

No.	BEARING/DELTA	LENGTH	RADIUS	TANGENT
13	S 50°12'01" E	2453.50'	--	--



CONSTRUCTION NOTES

1. SIDEWALK PER SDG-115
2. MODIFIED CURB RAMP PER CONSTRUCTION DETAILS
3. 6" TYPE G CURB AND GUTTER PER SDG-151
5. TYPE B-1 CURB PER SDG-154
16. STRAIGHT PASSAGEWAY PER CONSTRUCTION DETAILS
19. VINYL COATED CHAIN LINK FENCE (H=4') PER SDM-112
23. PROTECT IN PLACE
28. SIGNAL MODIFICATION AND EQUIPMENT PER SIGNAL MODIFICATION PLANS
40. RELOCATE UTILITY POLE (BY OTHERS)
41. RELOCATE CP RECTIFIER PER CATHODIC PROTECTION PLANS
42. RELOCATE ANODE PER CORROSION PROTECTION PLANS

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
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619-741-9400
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 51 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

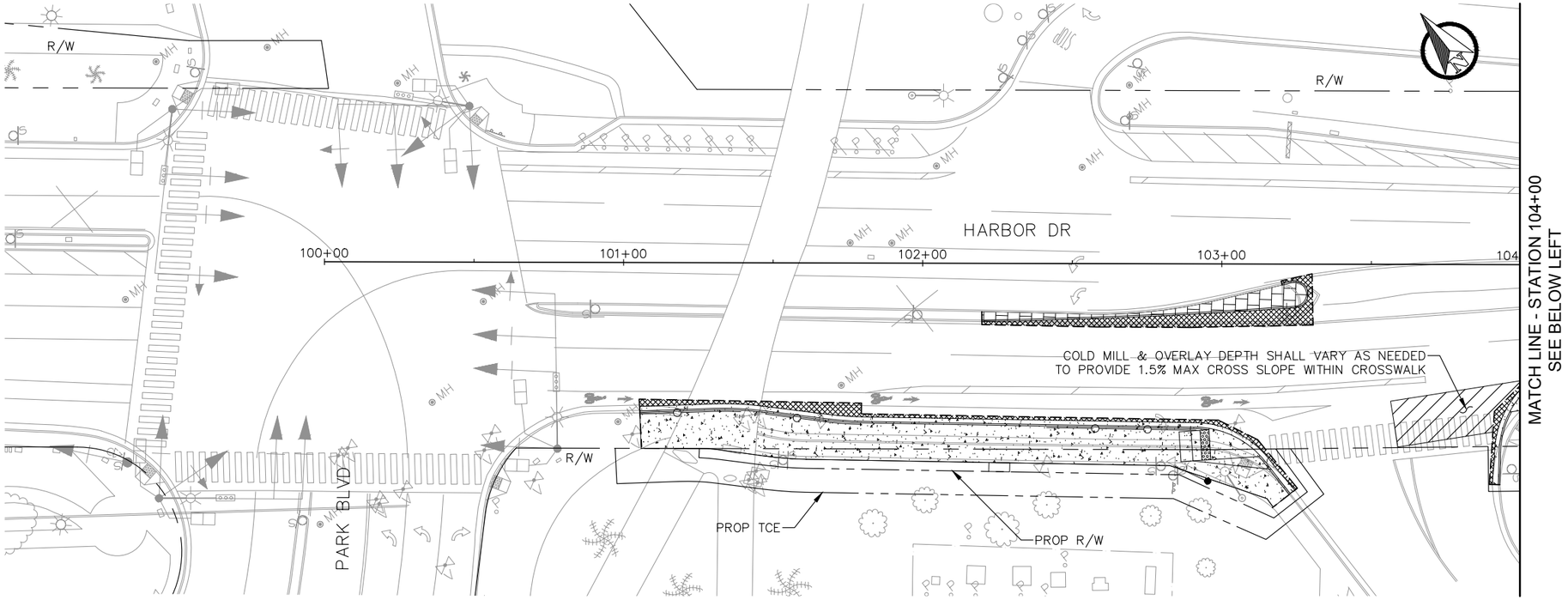
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

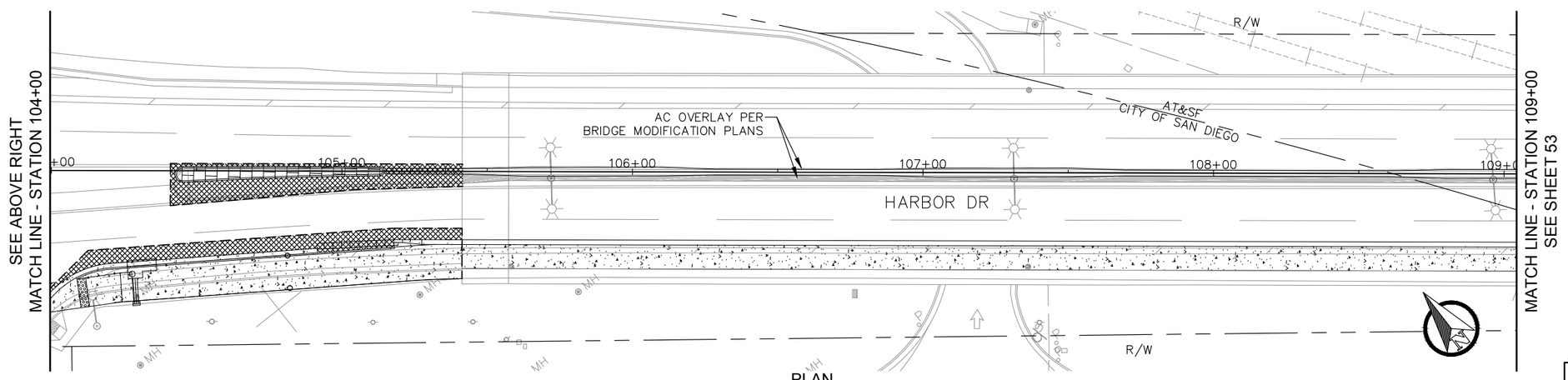
41370- 51 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 6:38:44 PM



PLAN



PLAN

LEGEND

- 3" AC / 10" CTB
- 3" AC / 5" CTB
- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
- 8" PCC
- SLURRY SEAL
- 1.5" COLD MILL & OVERLAY
- 2" COLD MILL, OVERLAY, & FABRIC
- CONCRETE PAVEMENT REPAIR
- VARIABLE DEPTH AC OVERLAY (1" MAX COLD MILL WHERE SHOWN ON SECTIONS)
- VARIABLE DEPTH AC OVERLAY WITH CRACK SEALENT AND PAVING FABRIC
- MINOR CONCRETE (SEE IMPROVEMENT PLANS)
- STAMPED CONCRETE
- DETECTABLE WARNING TILES PER SDG-130
- 3" AC VARIABLE DEPTH CTB

NOTES

1. UTILITY FEATURES ARE NOT SHOWN, UTILITIES SHALL BE PROTECTED IN PLACE OR ADJUSTED TO GRADE PER DEMOLITION AND IMPROVEMENT SHEETS
2. FOR EXISTING AC OVER PCC PAVEMENT SECTIONS, ONLY THE AC SECTION DEPTH SHALL BE COLD MILLED AND OVERLAID TO ORIGINAL GRADE WHERE EXISTING AC SECTION IS LESS THAN COLD MILL.

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 52 OF **187** SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

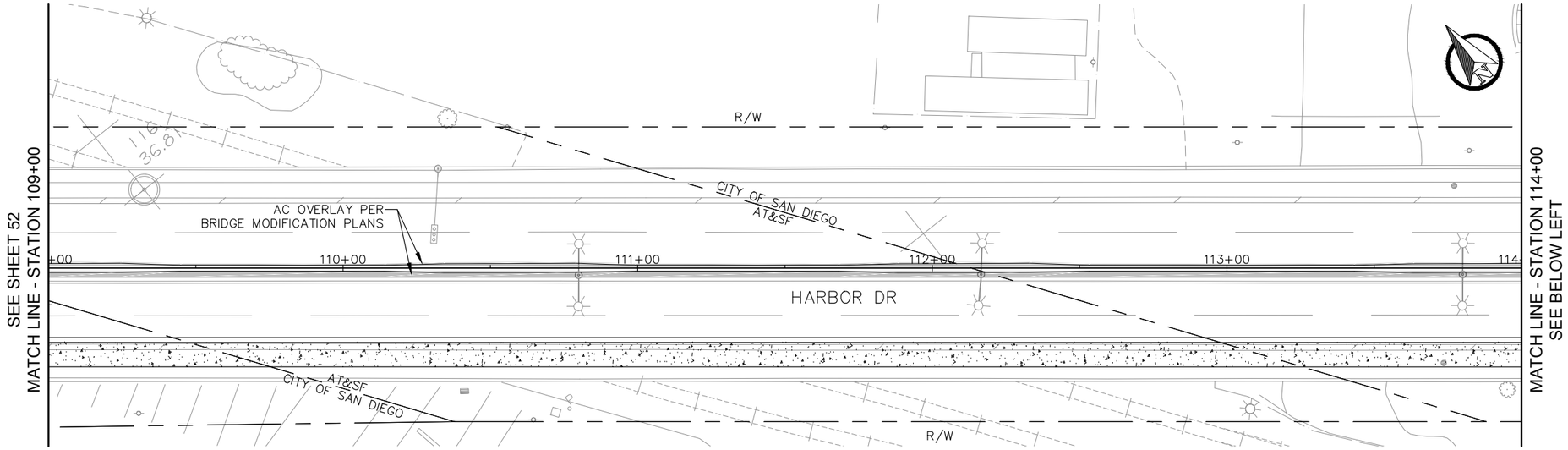
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

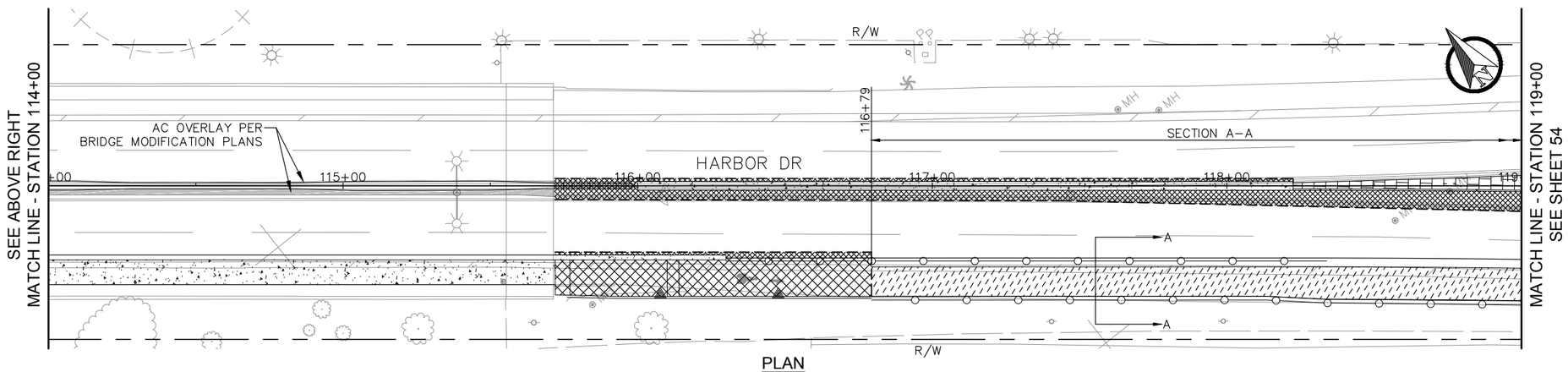
41370- 52 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/3/2019 10:13:42 AM



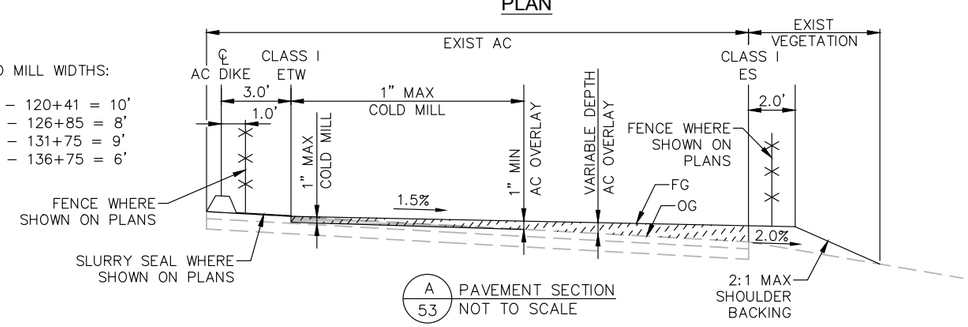
PLAN



PLAN

1" MAX COLD MILL WIDTHS:

STA 116+79 – 120+41 = 10'
STA 122+32 – 126+85 = 8'
STA 129+20 – 131+75 = 9'
STA 134+20 – 136+75 = 6'



A / 53 PAVEMENT SECTION
NOT TO SCALE

LEGEND

- 3" AC / 10" CTB
- 3" AC / 5" CTB
- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
- 8" PCC
- SLURRY SEAL
- 1.5" COLD MILL & OVERLAY
- 2" COLD MILL, OVERLAY, & FABRIC
- CONCRETE PAVEMENT REPAIR
- VARIABLE DEPTH AC OVERLAY (1" MAX COLD MILL WHERE SHOWN ON SECTIONS)
- VARIABLE DEPTH AC OVERLAY WITH CRACK SEALENT AND PAVING FABRIC
- MINOR CONCRETE (SEE IMPROVEMENT PLANS)
- STAMPED CONCRETE
- DETECTABLE WARNING TILES PER SDG–130
- 3" AC / VARIABLE DEPTH CTB

NOTES

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20 0 20 40 FEET
1"=20'

0 1/2 1
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CIVIL
STATE OF CALIFORNIA

		DATE
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DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 53 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

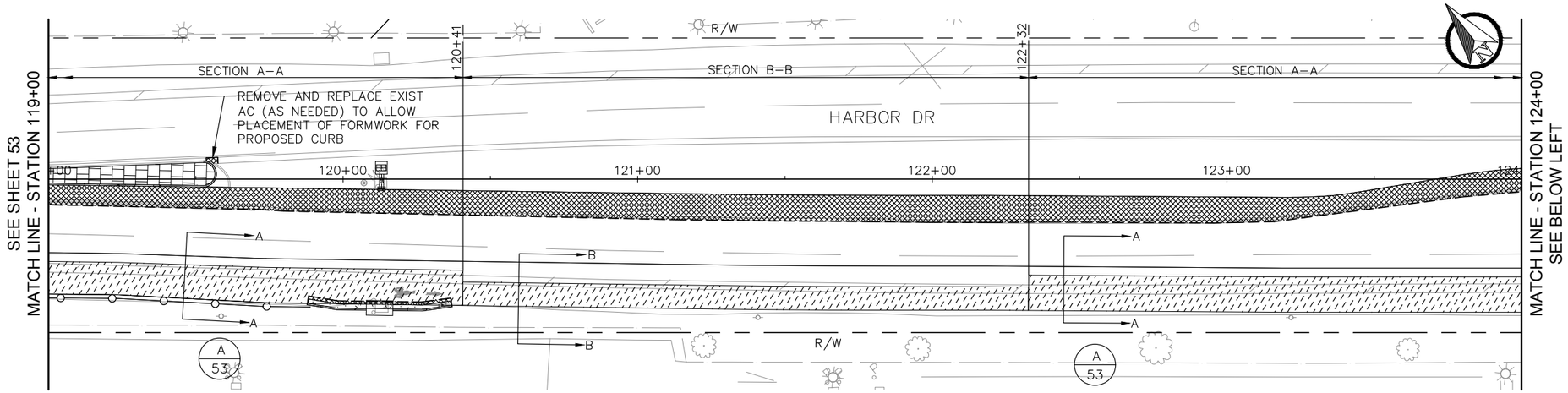
1834–6287 NAD83 COORDINATES
XXX–XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

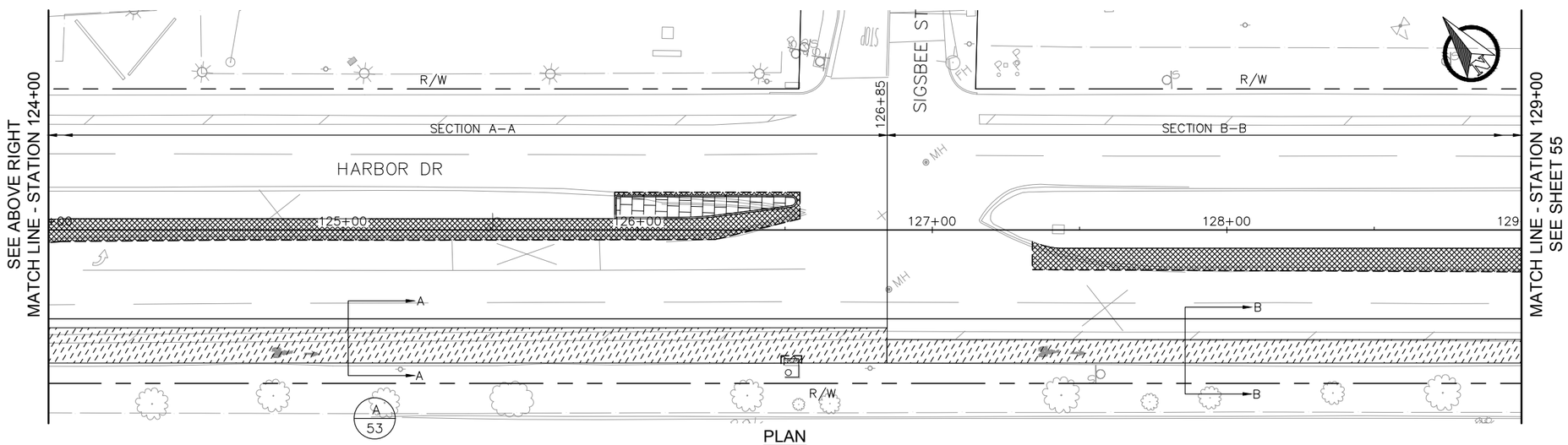
41370- 53-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/3/2019 10:22:46 AM



PLAN



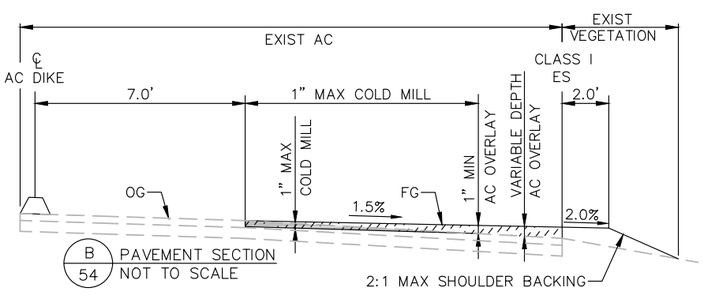
PLAN

LEGEND

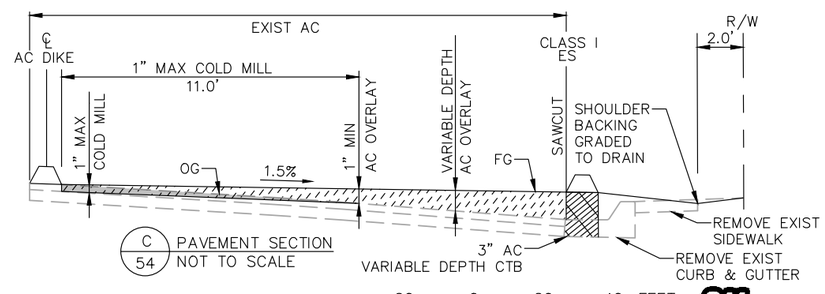
- 3" AC / 10" CTB
- 3" AC / 5" CTB
- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
- 8" PCC
- SLURRY SEAL
- 1.5" COLD MILL & OVERLAY
- 2" COLD MILL, OVERLAY, & FABRIC
- CONCRETE PAVEMENT REPAIR
- VARIABLE DEPTH AC OVERLAY (1" MAX COLD MILL WHERE SHOWN ON SECTIONS)
- VARIABLE DEPTH AC OVERLAY WITH CRACK SEALENT AND PAVING FABRIC
- MINOR CONCRETE (SEE IMPROVEMENT PLANS)
- STAMPED CONCRETE
- DETECTABLE WARNING TILES PER SDG–130
- 3" AC / VARIABLE DEPTH CTB

1" MAX COLD MILL WIDTHS:

STA 120+41 – 122+32 = 6'
STA 126+85 – 129+20= 7'



B 54 PAVEMENT SECTION NOT TO SCALE



C 54 PAVEMENT SECTION NOT TO SCALE

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

NOTES

1. UTILITY FEATURES ARE NOT SHOWN, UTILITIES SHALL BE PROTECTED IN PLACE OR ADJUSTED TO GRADE PER DEMOLITION AND IMPROVEMENT SHEETS
2. FOR EXISTING AC OVER PCC PAVEMENT SECTIONS, ONLY THE AC SECTION DEPTH SHALL BE COLD MILLED AND OVERLAID TO ORIGINAL GRADE WHERE EXISTING AC SECTION IS LESS THAN COLD MILL.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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619-741-9400
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 54 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

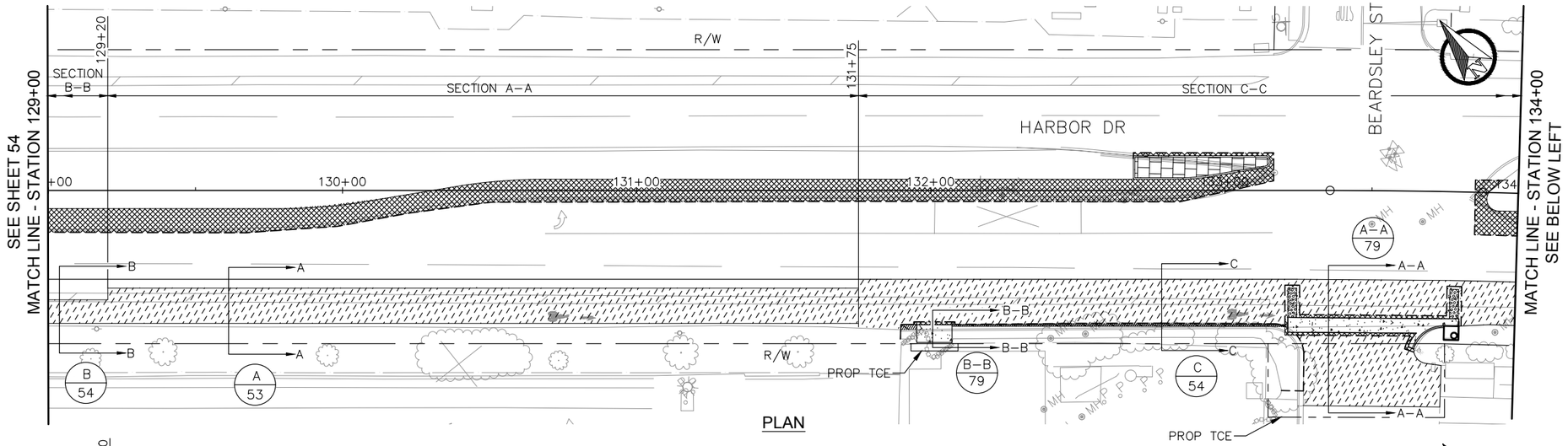
1834–6287 NAD83 COORDINATES
XXX–XXXX LAMBERT COORDINATES

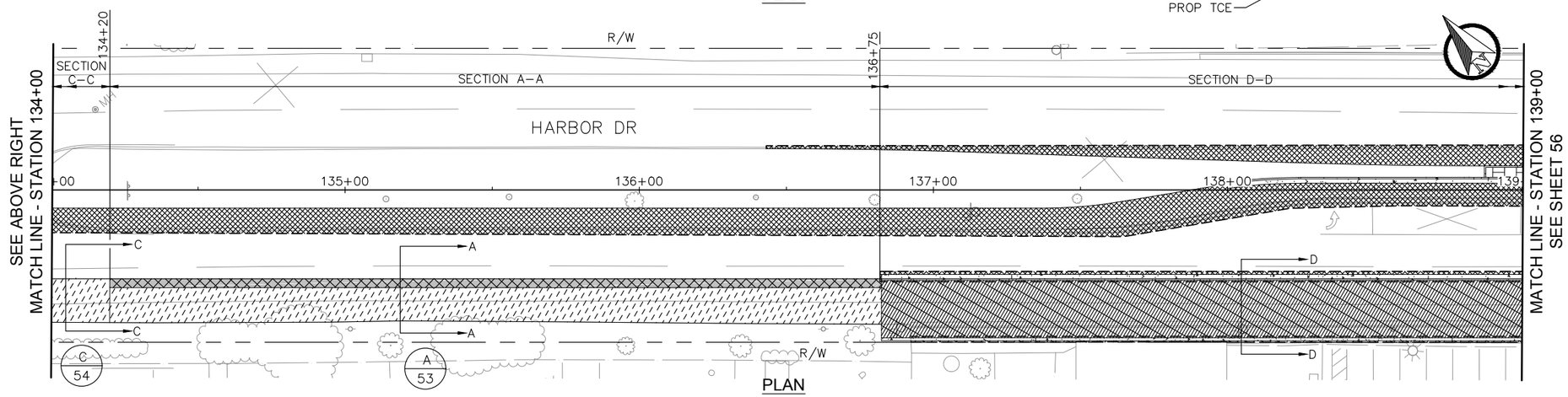
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

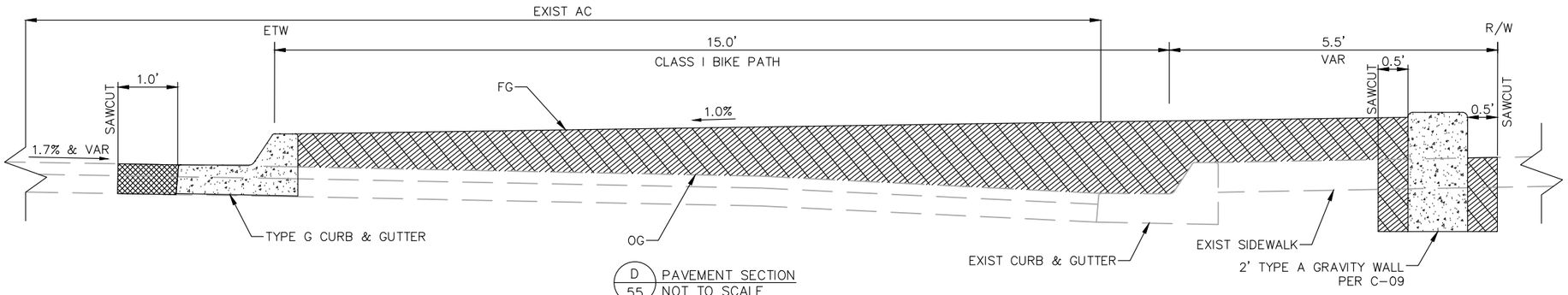
41370- 54-D

5/3/2019 1:35:30 PM

NOT FOR CONSTRUCTION – MAY 6, 2019







LEGEND

- 3" AC / 10" CTB
- 3" AC / 5" CTB
- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
- 8" PCC
- SLURRY SEAL
- 1.5" COLD MILL & OVERLAY
- 2" COLD MILL, OVERLAY, & FABRIC
- CONCRETE PAVEMENT REPAIR
- VARIABLE DEPTH AC OVERLAY (1" MAX COLD MILL WHERE SHOWN ON SECTIONS)
- VARIABLE DEPTH AC OVERLAY WITH CRACK SEALENT AND PAVING FABRIC
- MINOR CONCRETE (SEE IMPROVEMENT PLANS)
- STAMPED CONCRETE
- DETECTABLE WARNING TILES PER SDG-130
- 3" AC / VARIABLE DEPTH CTB

NOTES

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2. FOR EXISTING AC OVER PCC PAVEMENT SECTIONS, ONLY THE AC SECTION DEPTH SHALL BE COLD MILLED AND OVERLAID TO ORIGINAL GRADE WHERE EXISTING AC SECTION IS LESS THAN COLD MILL.

20 0 20 40 FEET
1"=20'

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0 1/2 1
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CIVIL
STATE OF CALIFORNIA

DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
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SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 55 OF 187 SHEETS

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

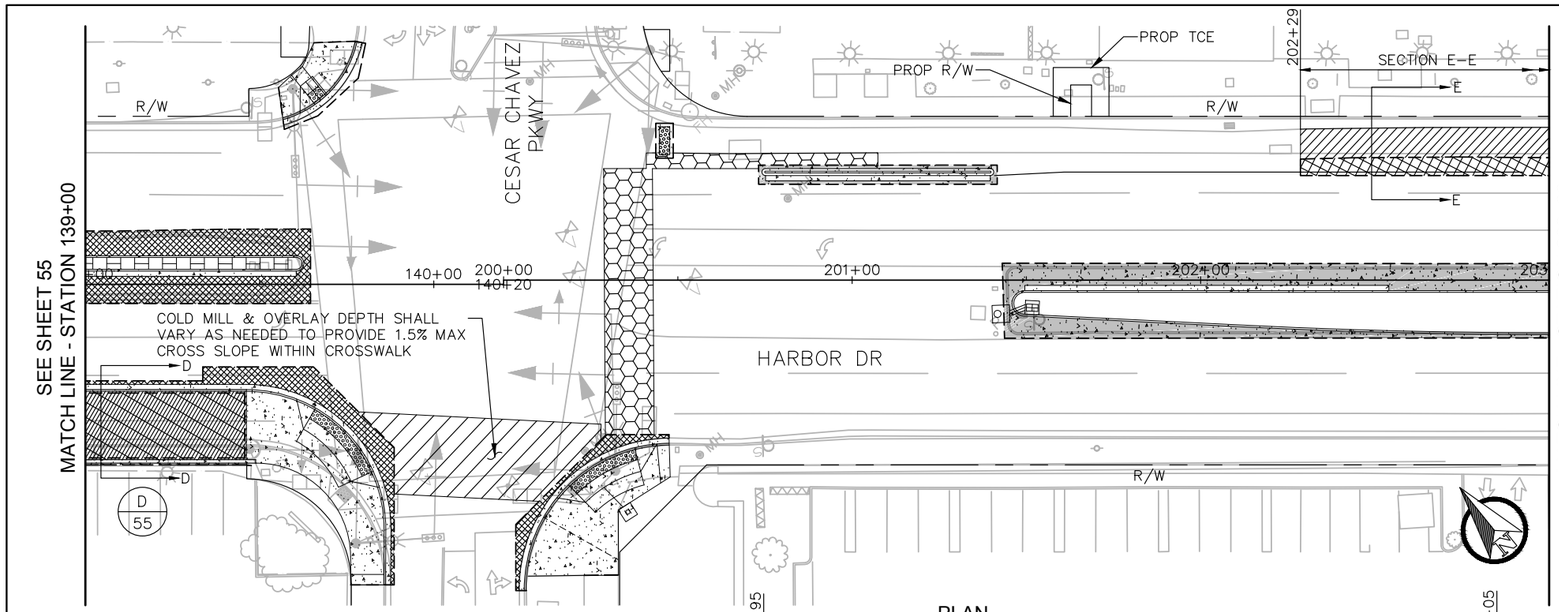
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

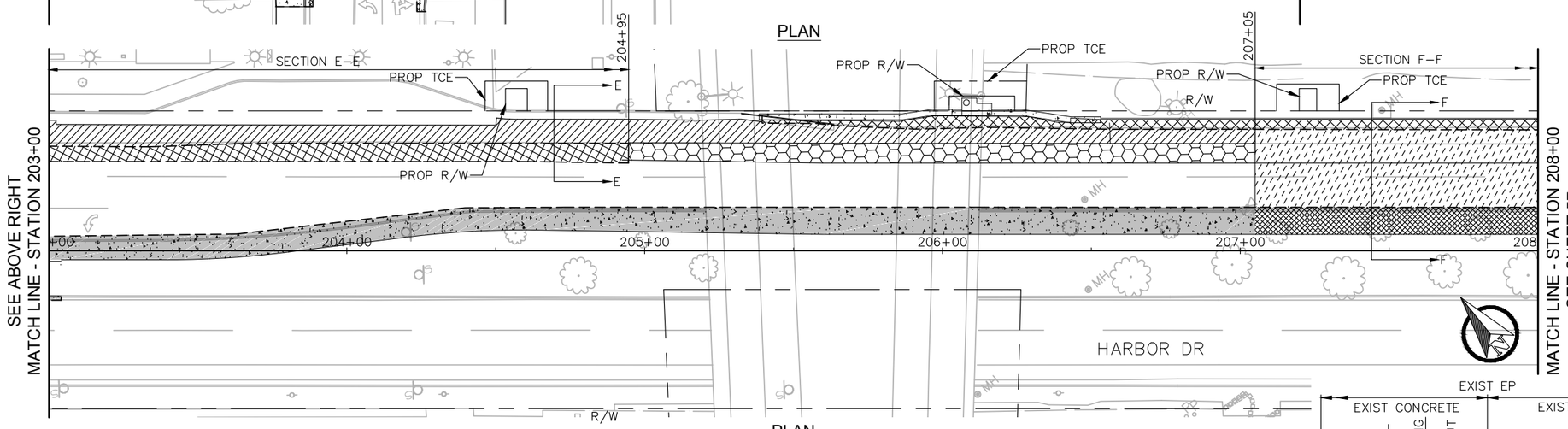
41370- 55-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/3/2019 12:12:32 PM



PLAN



PLAN

LEGEND

- 3" AC / 10" CTB
- 3" AC / 5" CTB
- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
- 8" PCC
- SLURRY SEAL
- 1.5" COLD MILL & OVERLAY
- 2" COLD MILL, OVERLAY, & FABRIC
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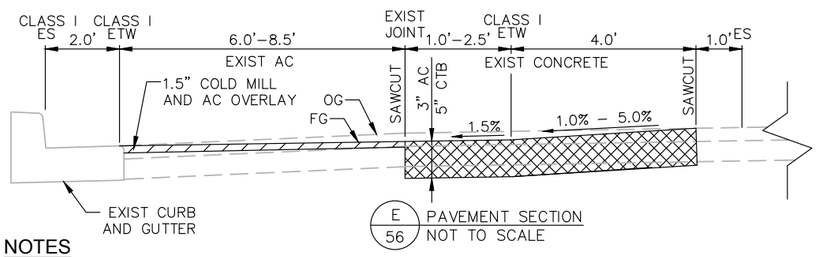
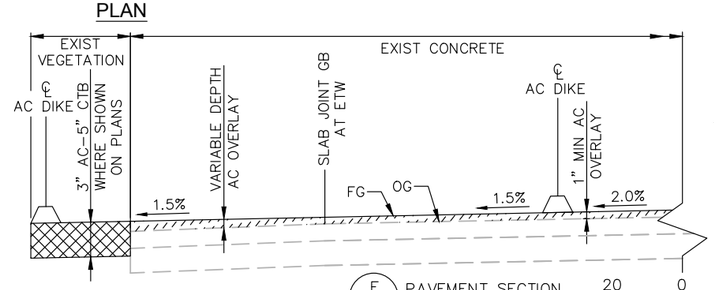
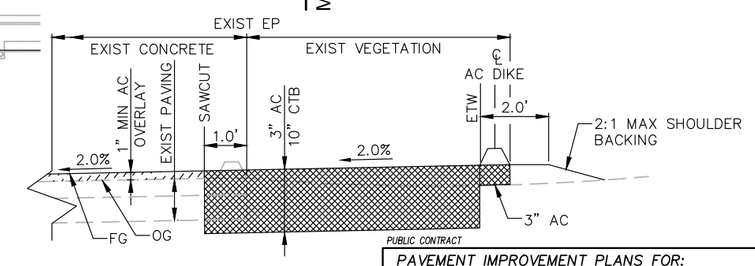
- VARIABLE DEPTH AC OVERLAY WITH CRACK SEALENT AND PAVING FABRIC
- MINOR CONCRETE (SEE IMPROVEMENT PLANS)
- STAMPED CONCRETE
- DETECTABLE WARNING TILES PER SDG-130
- 3" AC VARIABLE DEPTH CTB







20 0 20 40 FEET
1"=20'

NOTES

1. UTILITY FEATURES ARE NOT SHOWN, UTILITIES SHALL BE PROTECTED IN PLACE OR ADJUSTED TO GRADE PER DEMOLITION AND IMPROVEMENT SHEETS
2. FOR EXISTING AC OVER PCC PAVEMENT SECTIONS, ONLY THE AC SECTION DEPTH SHALL BE COLD MILLED AND OVERLAID TO ORIGINAL GRADE WHERE EXISTING AC SECTION IS LESS THAN COLD MILL.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 56 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 56 -D

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

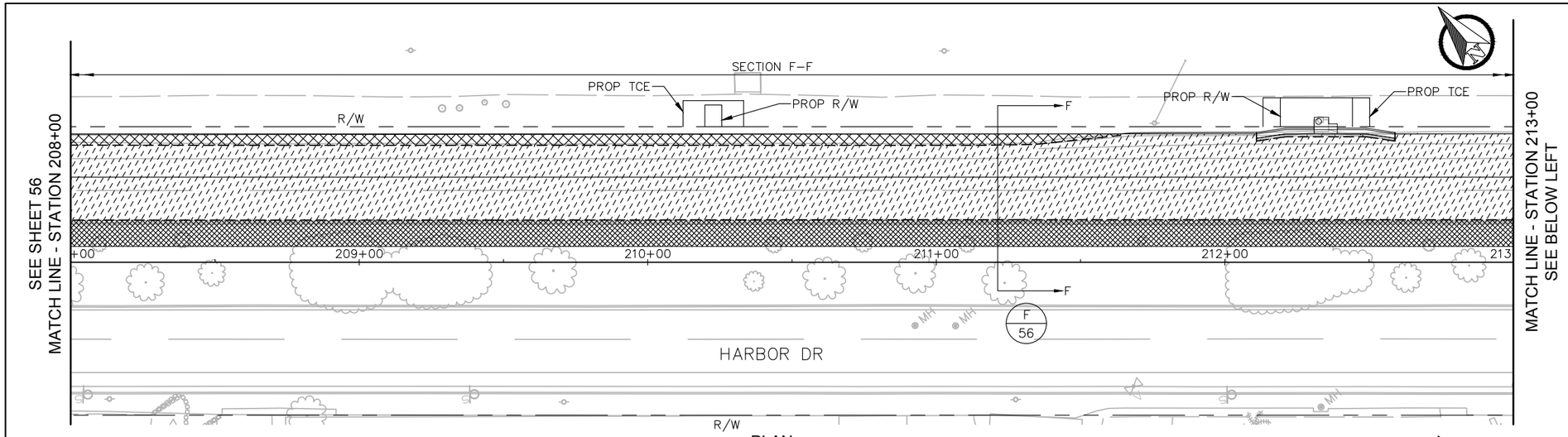
		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

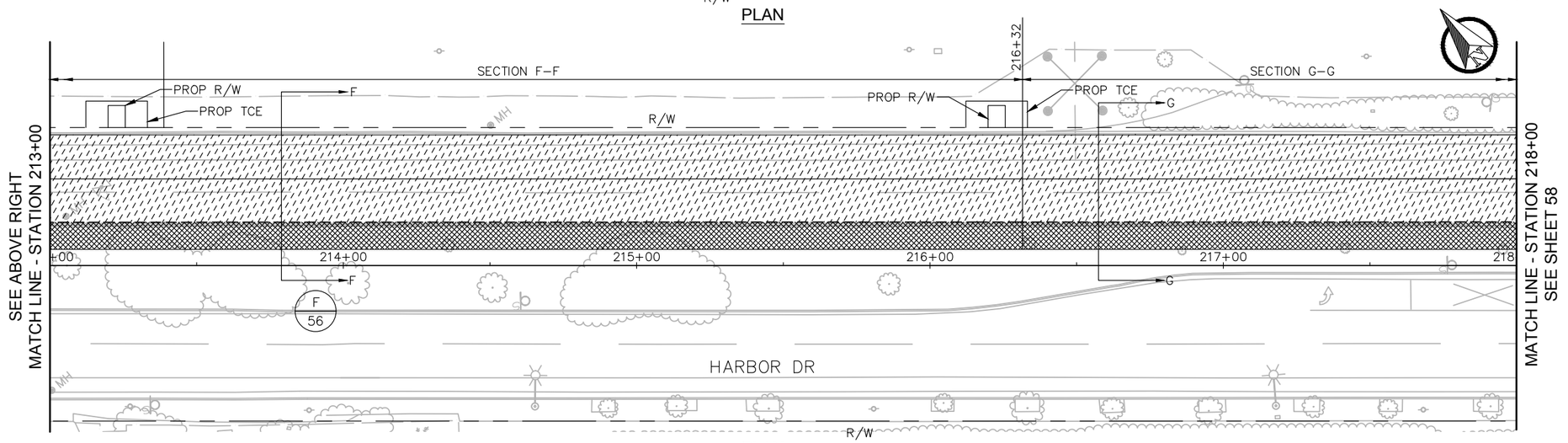
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/3/2019 3:14:48 PM



PLAN



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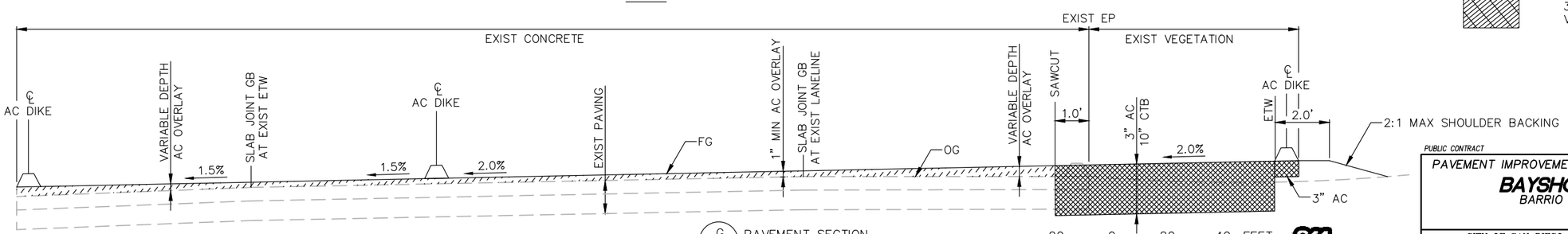

G / 57 PAVEMENT SECTION
NOT TO SCALE

20 0 20 40 FEET
1"=20'

LEGEND

- 3" AC / 10" CTB
- 3" AC / 5" CTB
- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
- 8" PCC
- SLURRY SEAL
- 1.5" COLD MILL & OVERLAY
- 2" COLD MILL, OVERLAY, & FABRIC
- CONCRETE PAVEMENT REPAIR
- VARIABLE DEPTH AC OVERLAY (1" MAX COLD MILL WHERE SHOWN ON SECTIONS)
- VARIABLE DEPTH AC OVERLAY WITH CRACK SEALENT AND PAVING FABRIC
- MINOR CONCRETE (SEE IMPROVEMENT PLANS)
- STAMPED CONCRETE
- DETECTABLE WARNING TILES PER SDG–130
- 3" AC / VARIABLE DEPTH CTB

NOTES

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0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC AC DIKE

Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
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619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 57 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

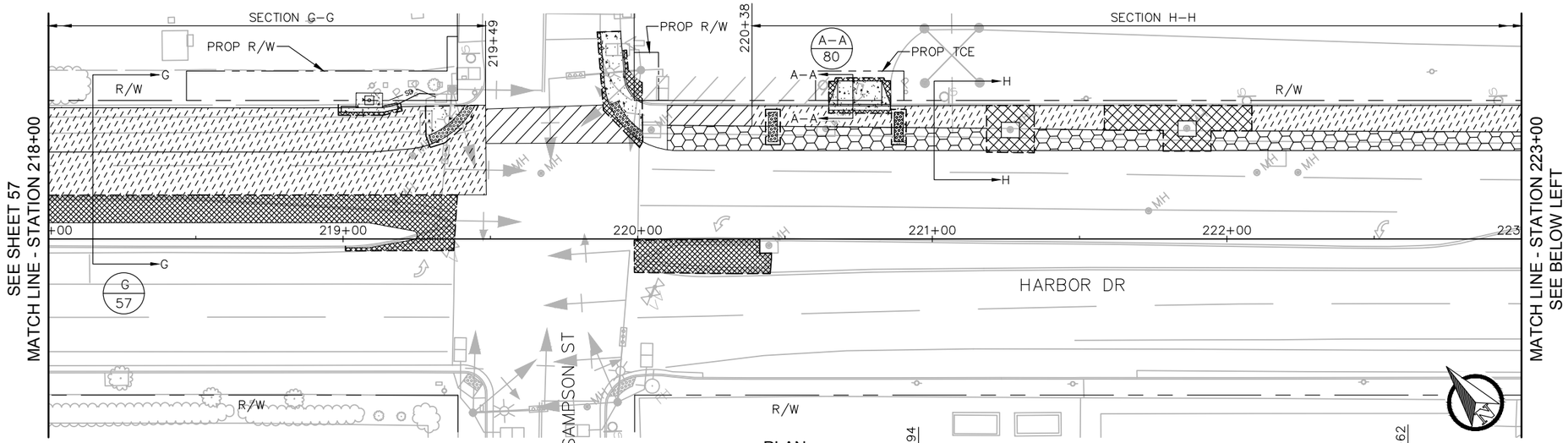
1834–6287 NAD83 COORDINATES
XXX–XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

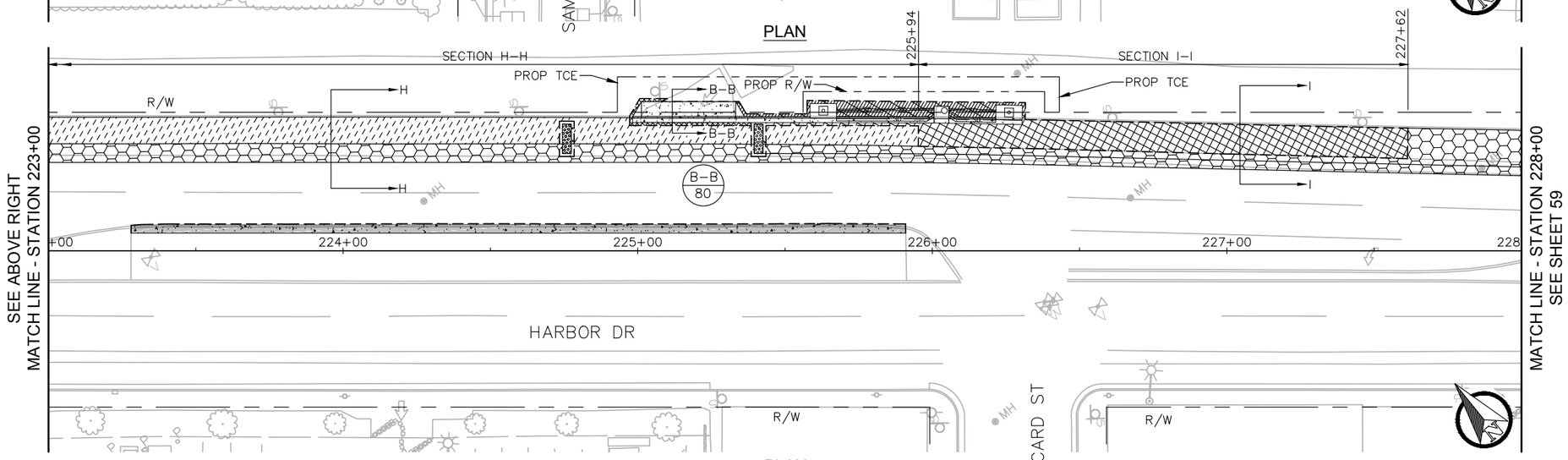
41370- 57 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/3/2019 1:46:50 PM



PLAN



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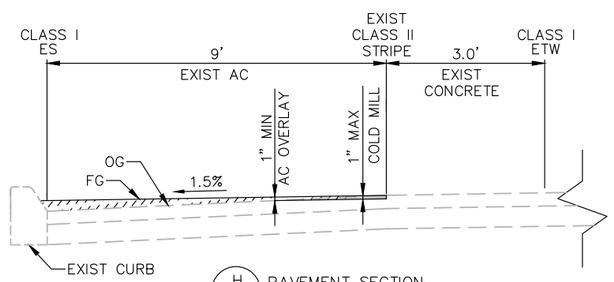
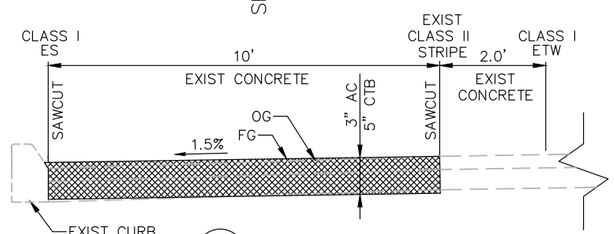


H 58 PAVEMENT SECTION
NOT TO SCALE



I 58 PAVEMENT SECTION
NOT TO SCALE

20 0 20 40 FEET
1"=20'

LEGEND

- 3" AC / 10" CTB
- 3" AC / 5" CTB
- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
- 8" PCC
- SLURRY SEAL
- 1.5" COLD MILL & OVERLAY
- 2" COLD MILL, OVERLAY, & FABRIC
- CONCRETE PAVEMENT REPAIR
- VARIABLE DEPTH AC OVERLAY (1" MAX COLD MILL WHERE SHOWN ON SECTIONS)
- VARIABLE DEPTH AC OVERLAY WITH CRACK SEALENT AND PAVING FABRIC
- MINOR CONCRETE (SEE IMPROVEMENT PLANS)
- STAMPED CONCRETE
- DETECTABLE WARNING TILES PER SDG–130
- 3" AC / VARIABLE DEPTH CTB

NOTES

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0 1/2 1
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QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 58 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

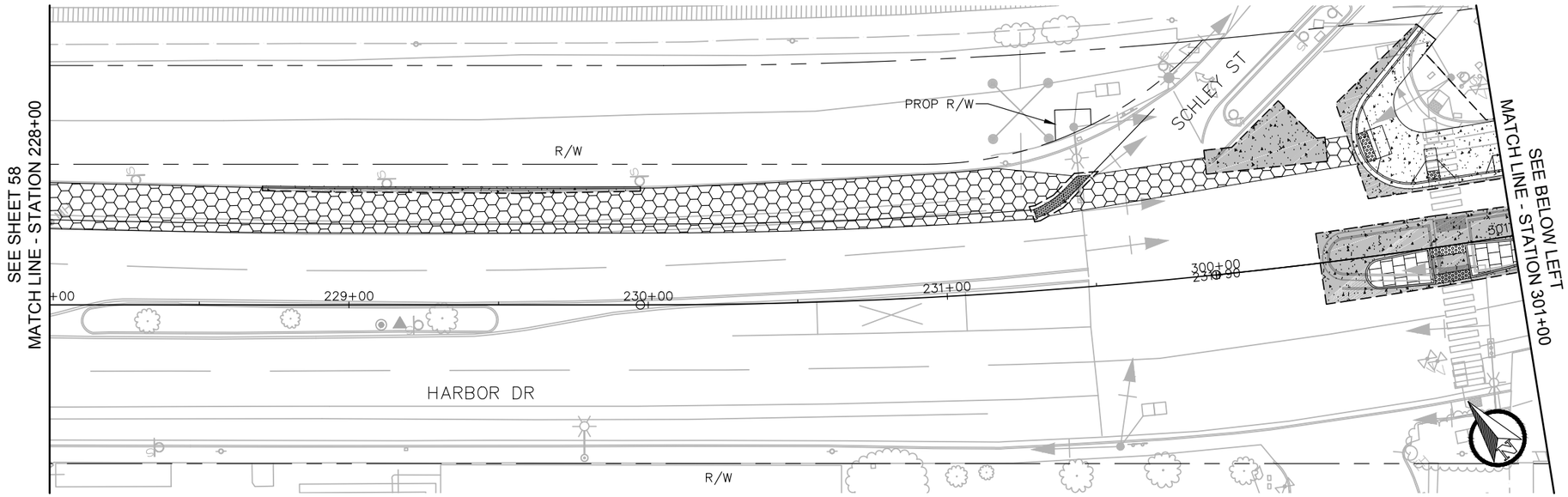
1834–6287
NAD83 COORDINATES
XXX–XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 58 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/3/2019 3:13:47 PM



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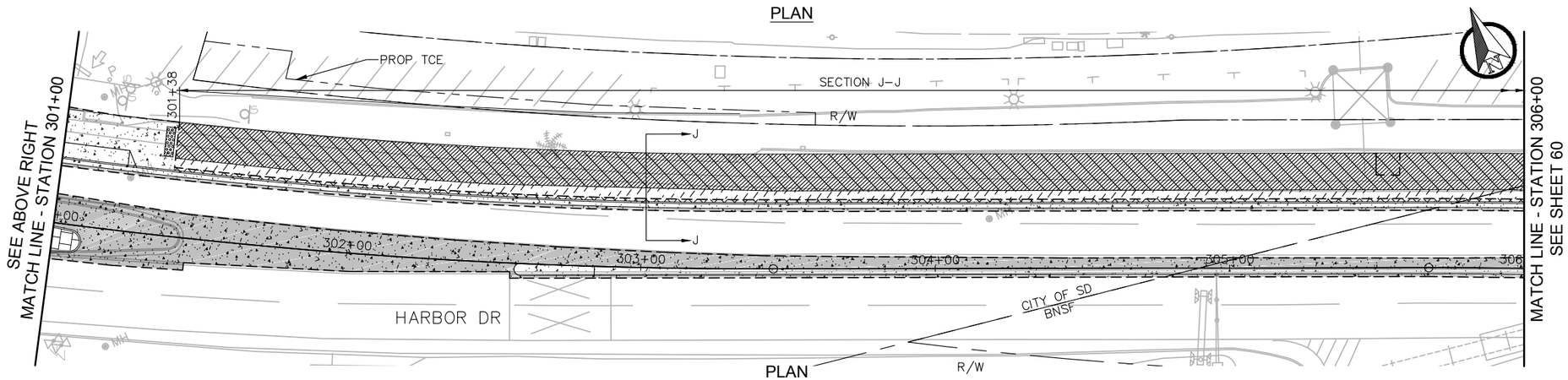
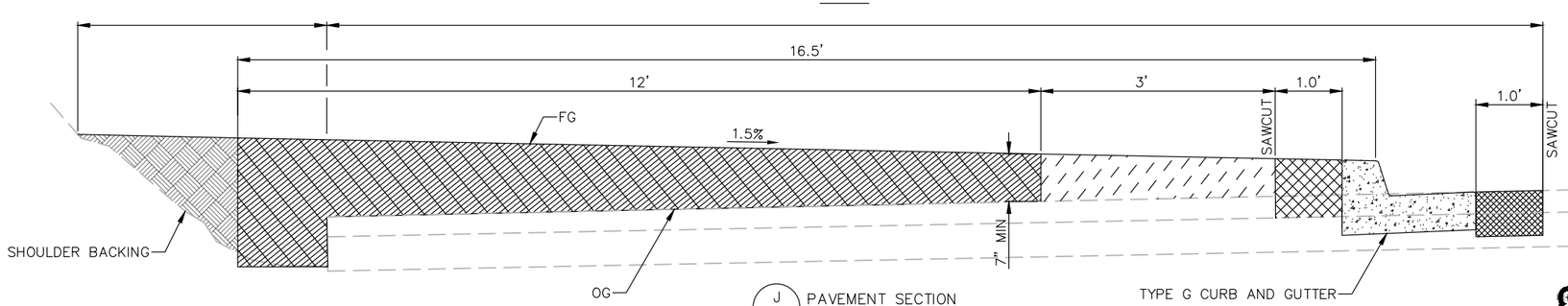


PLAN



J / 59 PAVEMENT SECTION
NOT TO SCALE

LEGEND

- 3" AC / 10" CTB
- 3" AC / 5" CTB
- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
- 8" PCC
- SLURRY SEAL
- 1.5" COLD MILL & OVERLAY
- 2" COLD MILL, OVERLAY, & FABRIC
- CONCRETE PAVEMENT REPAIR
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- STAMPED CONCRETE
- DETECTABLE WARNING TILES PER SDG–130
- 3" AC / VARIABLE DEPTH CTB

20 0 20 40 FEET
1"=20'

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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 59 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

1834–6287 NAD83 COORDINATES
XXX–XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 59 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

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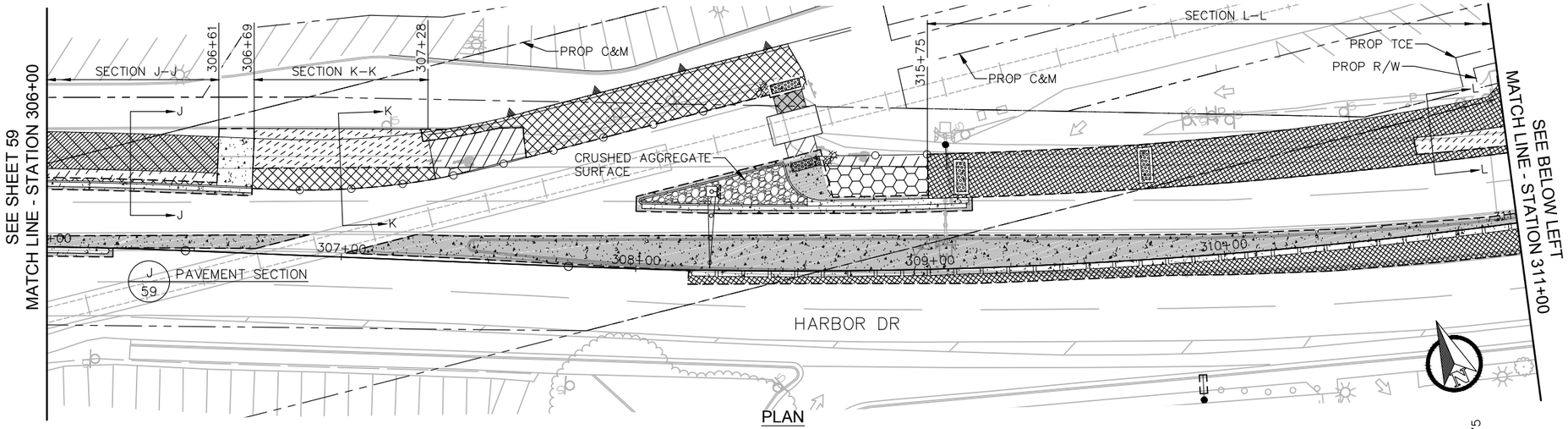

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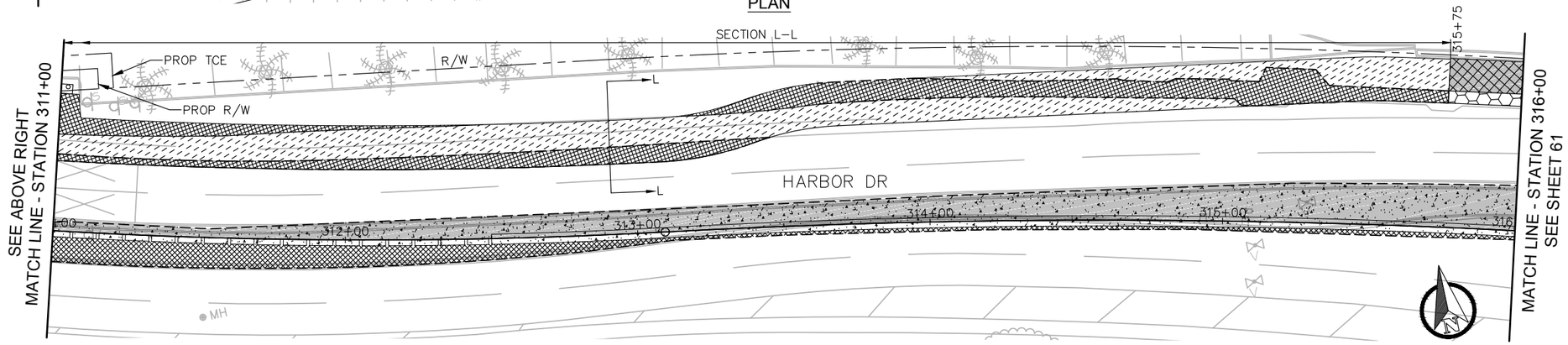

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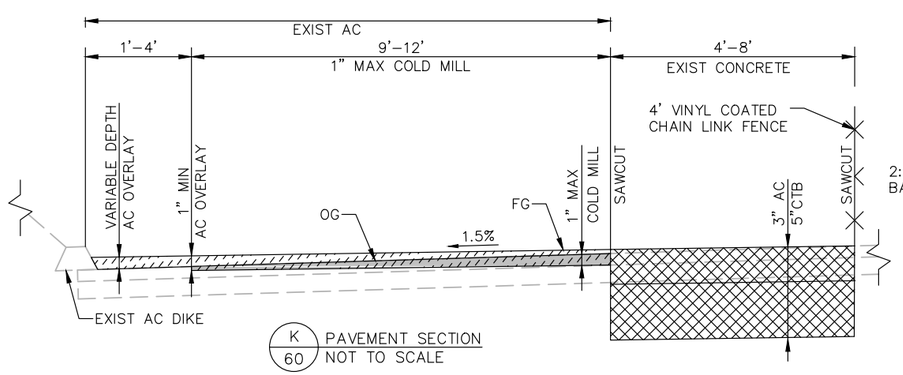

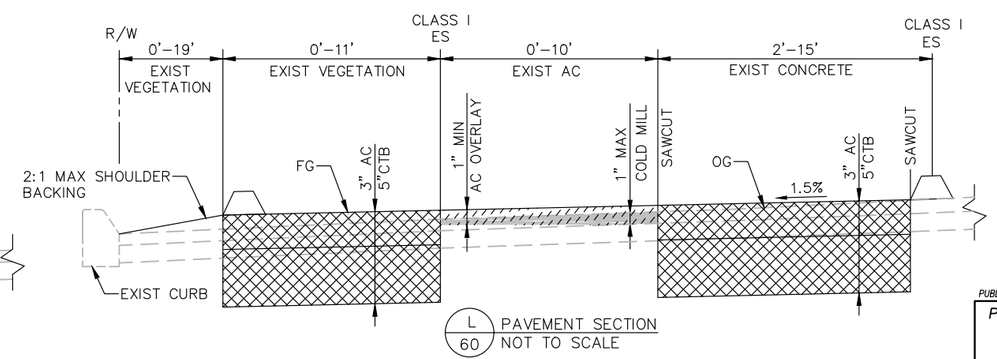

LEGEND

- 3" AC / 10" CTB
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- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
- 8" PCC
- SLURRY SEAL
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- DETECTABLE WARNING TILES PER SDG–130
- 3" AC / VARIABLE DEPTH CTB

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20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 60 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

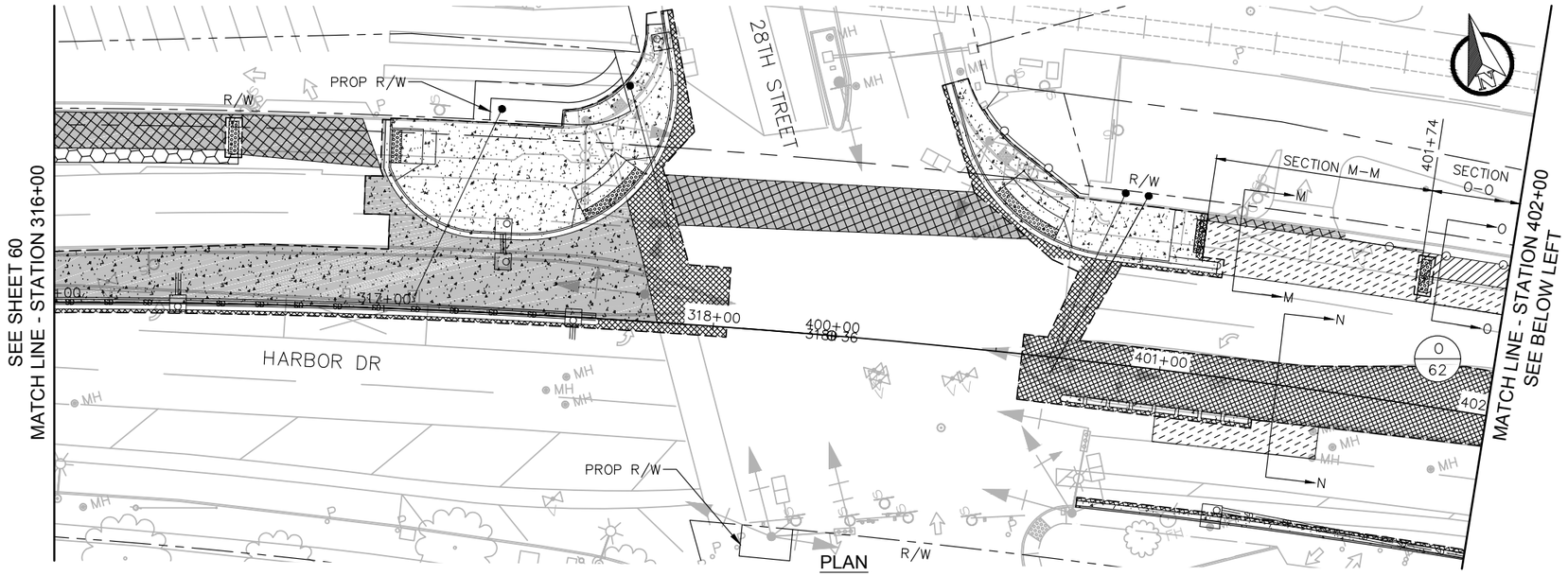
1834–6287 NAD83 COORDINATES
XXX–XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

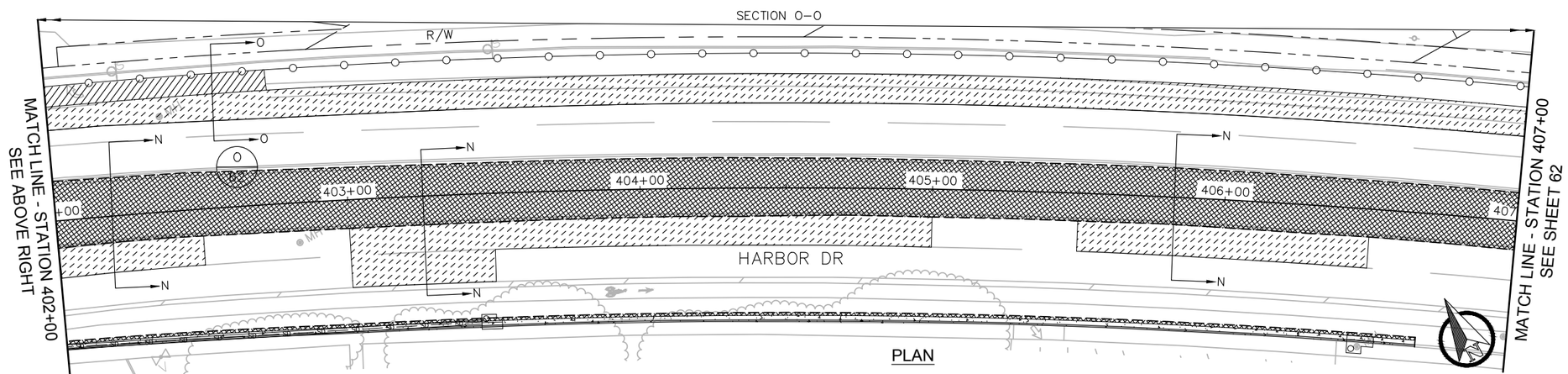
41370- 60-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/3/2019 2:58:08 PM



PLAN



PLAN

LEGEND

- 3" AC / 10" CTB
- 3" AC / 5" CTB
- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
- 8" PCC
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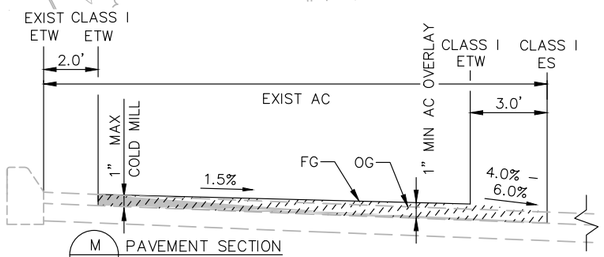
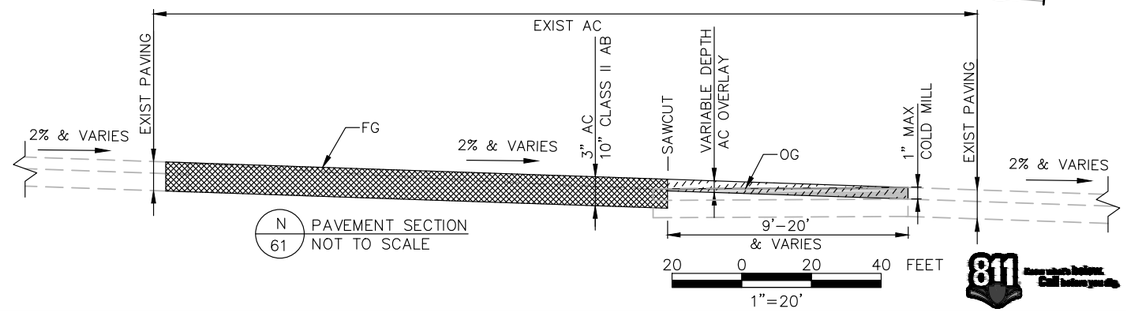
- DETECTABLE WARNING TILES PER SDG-130
- 3" AC / VARIABLE DEPTH CTB



M / 61 PAVEMENT SECTION
NOT TO SCALE



N / 61 PAVEMENT SECTION
NOT TO SCALE

NOTES

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0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 61 OF 187 SHEETS

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

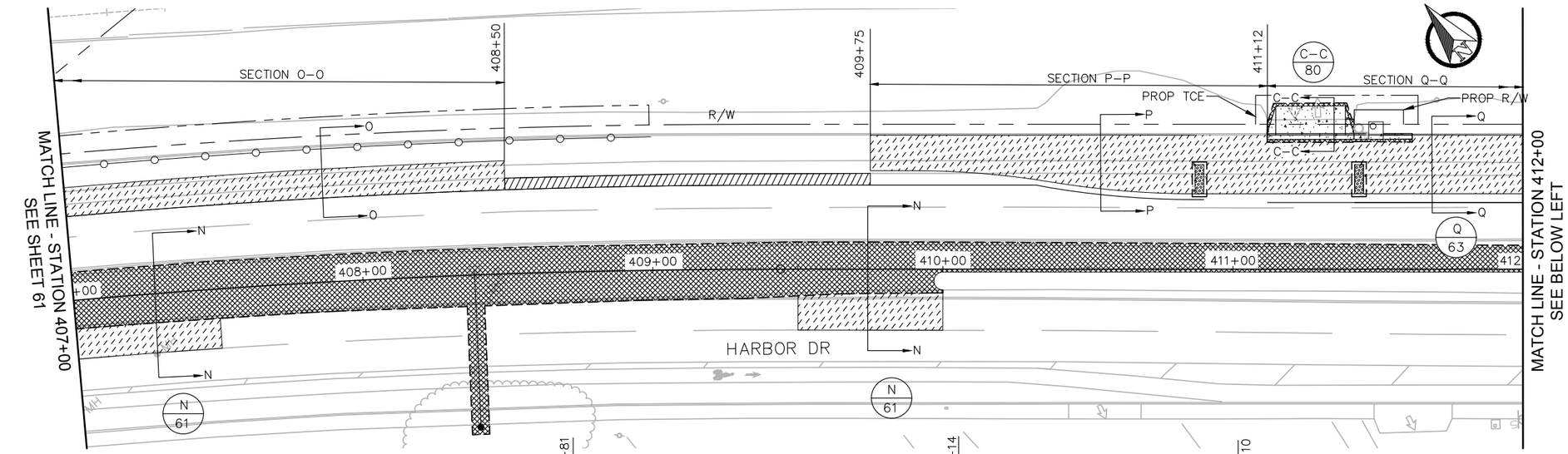
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

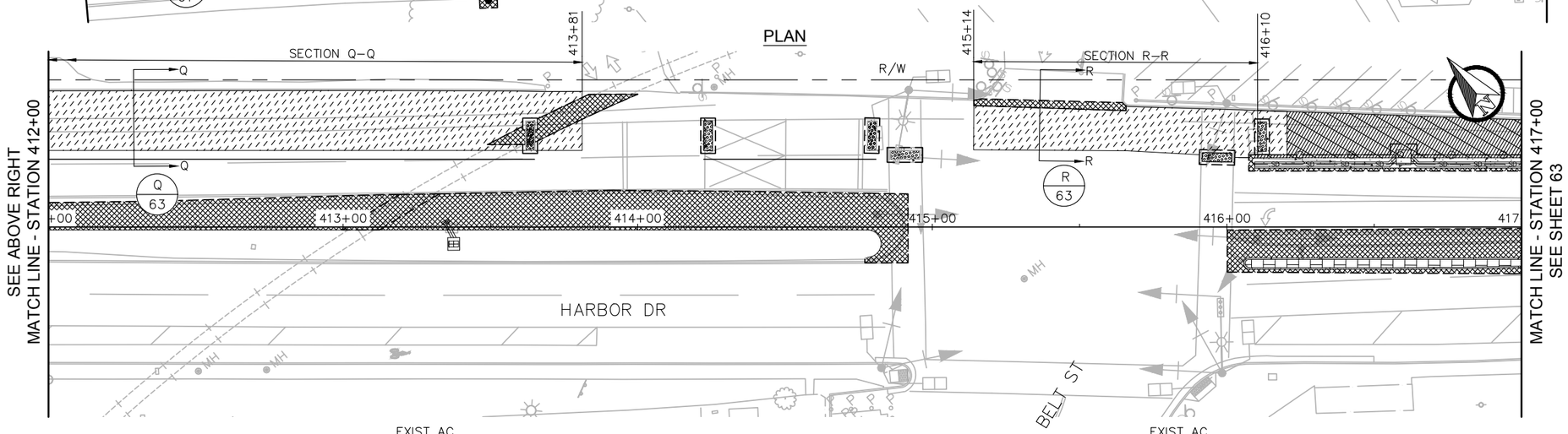
41370- 61 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/3/2019 3:20:16 PM



PLAN



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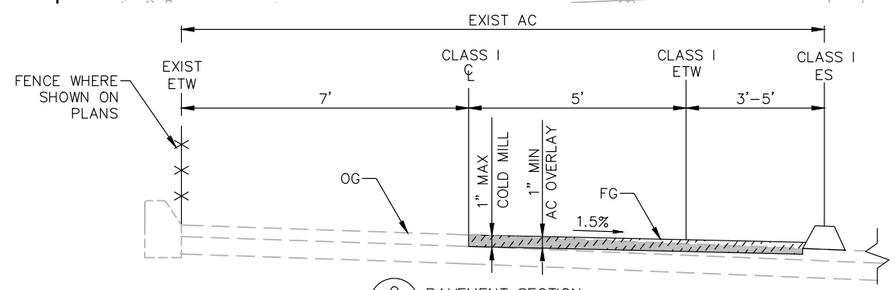
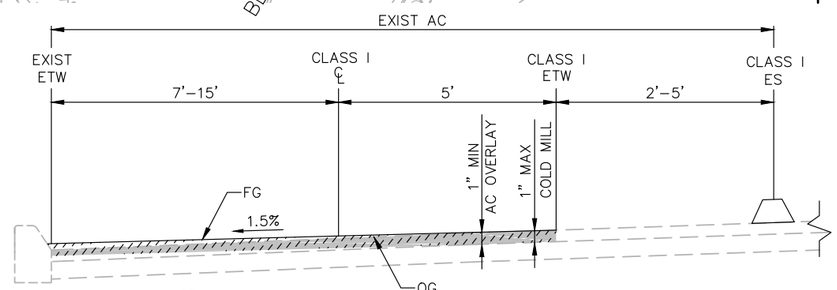


O 62 PAVEMENT SECTION NOT TO SCALE



P 62 PAVEMENT SECTION NOT TO SCALE

20 0 20 40 FEET
1"=20'

LEGEND

- 3" AC / 10" CTB
- 3" AC / 5" CTB
- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
- 8" PCC
- SLURRY SEAL
- 1.5" COLD MILL & OVERLAY
- 2" COLD MILL, OVERLAY, & FABRIC
- CONCRETE PAVEMENT REPAIR
- VARIABLE DEPTH AC OVERLAY (1" MAX COLD MILL WHERE SHOWN ON SECTIONS)
- VARIABLE DEPTH AC OVERLAY WITH CRACK SEALENT AND PAVING FABRIC
- MINOR CONCRETE (SEE IMPROVEMENT PLANS)
- STAMPED CONCRETE
- DETECTABLE WARNING TILES PER SDG–130
- 3" AC / VARIABLE DEPTH CTB

NOTES

1. UTILITY FEATURES ARE NOT SHOWN, UTILITIES SHALL BE PROTECTED IN PLACE OR ADJUSTED TO GRADE PER DEMOLITION AND IMPROVEMENT SHEETS
2. FOR EXISTING AC OVER PCC PAVEMENT SECTIONS, ONLY THE AC SECTION DEPTH SHALL BE COLD MILLED AND OVERLAID TO ORIGINAL GRADE WHERE EXISTING AC SECTION IS LESS THAN COLD MILL.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 62 OF 187 SHEETS

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834–6287 NAD83 COORDINATES
XXX–XXXX LAMBERT COORDINATES

41370- 62-D

NOT FOR CONSTRUCTION – MAY 6, 2019

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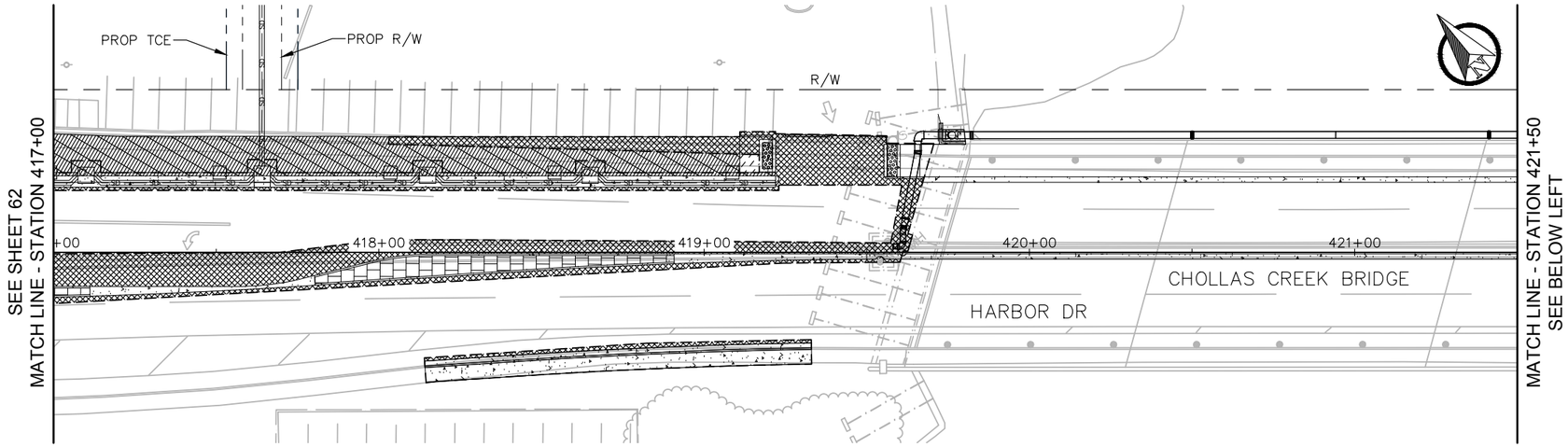
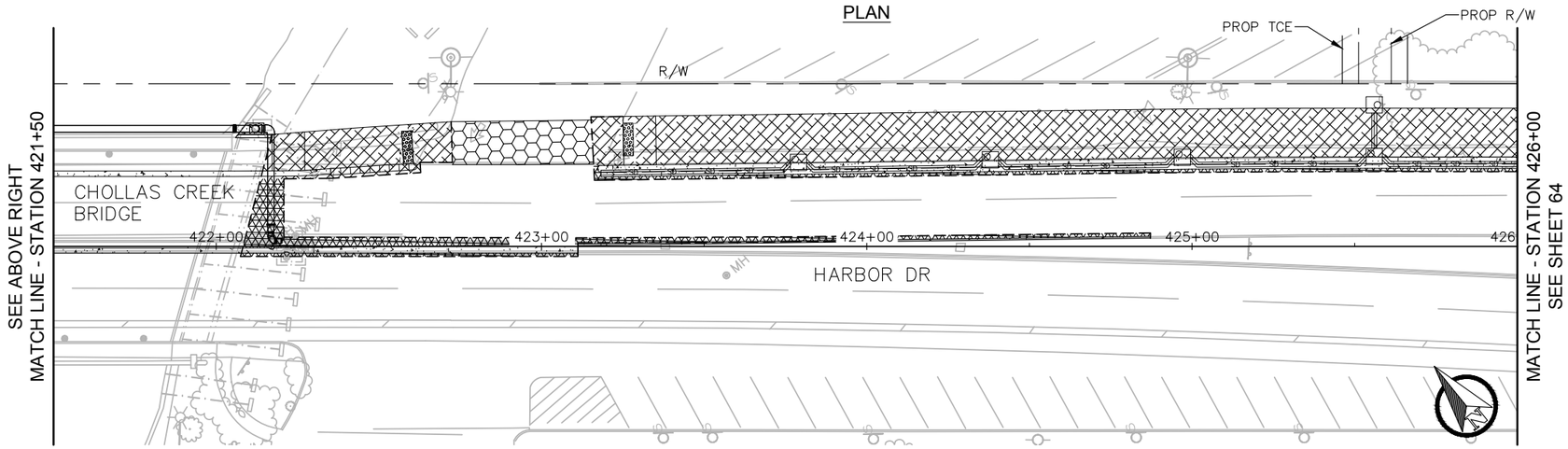


PLAN



PLAN

LEGEND

- 3" AC / 10" CTB
- 3" AC / 5" CTB
- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
- 8" PCC
- SLURRY SEAL
- 1.5" COLD MILL & OVERLAY
- 2" COLD MILL, OVERLAY, & FABRIC
- CONCRETE PAVEMENT REPAIR
- VARIABLE DEPTH AC OVERLAY (1" MAX COLD MILL WHERE SHOWN ON SECTIONS)
- VARIABLE DEPTH AC OVERLAY WITH CRACK SEALENT AND PAVING FABRIC
- MINOR CONCRETE (SEE IMPROVEMENT PLANS)
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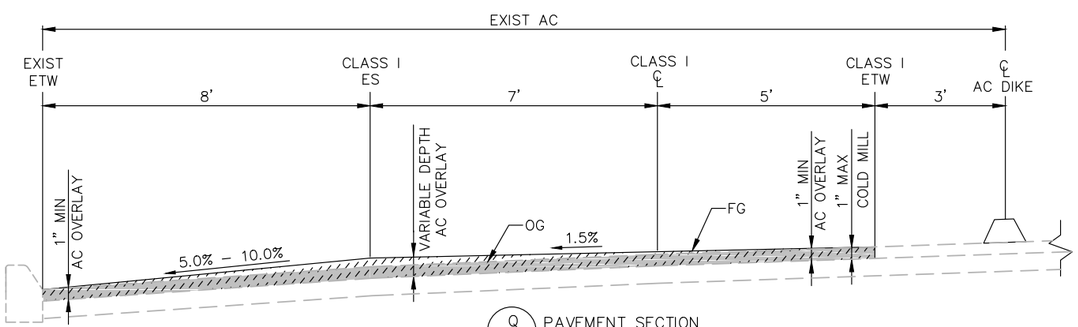
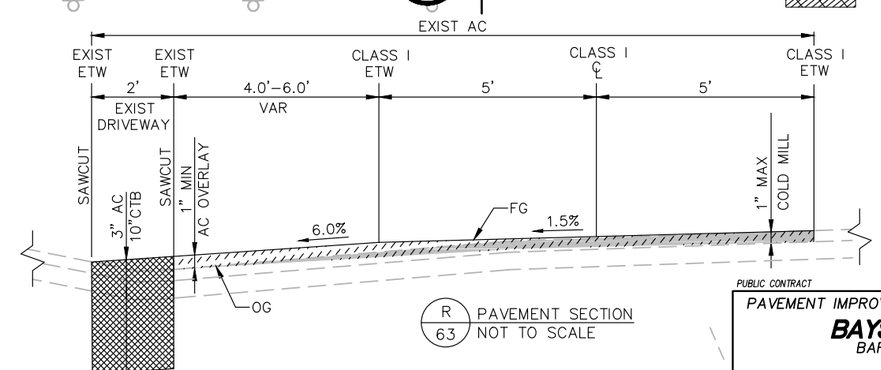
- DETECTABLE WARNING TILES PER SDG-130
- 3" AC / VARIABLE DEPTH CTB



Q 63 PAVEMENT SECTION NOT TO SCALE



R 63 PAVEMENT SECTION NOT TO SCALE

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

NOTES

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0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 63 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

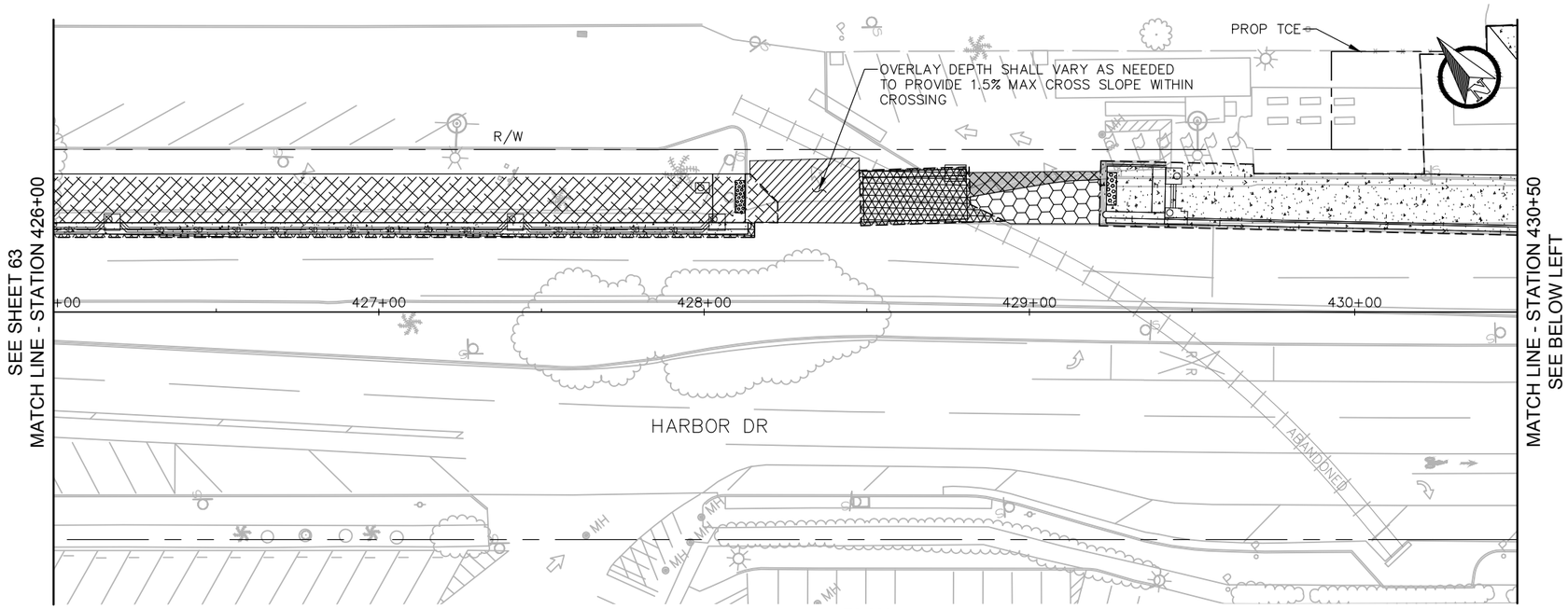
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

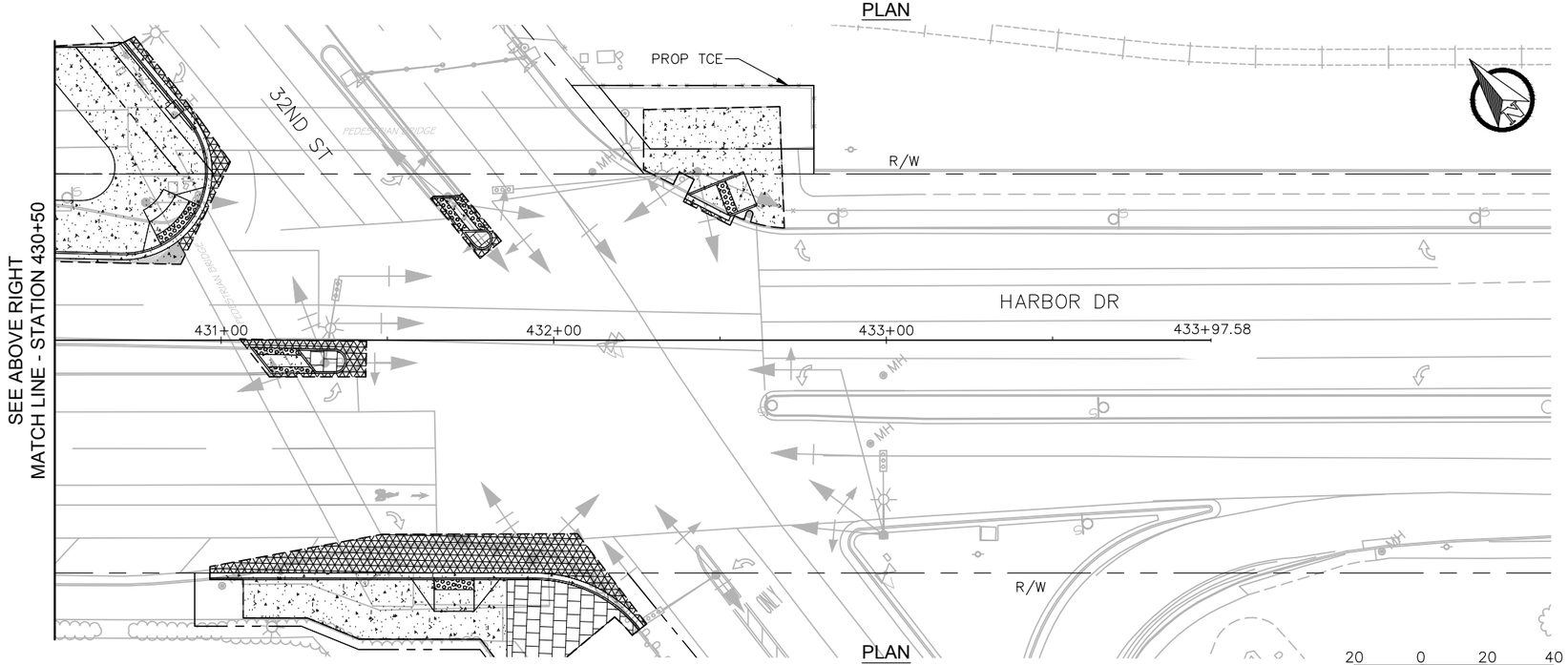
41370- 63-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/3/2019 3:51:45 PM



PLAN



PLAN

20 0 20 40 FEET
1"=20'

LEGEND

- 3" AC / 10" CTB
- 3" AC / 5" CTB
- FULL DEPTH AC (10.5" MIN ON SUBGRADE)
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- MINOR CONCRETE (SEE IMPROVEMENT PLANS)
- STAMPED CONCRETE
- DETECTABLE WARNING TILES PER SDG-130
- 3" AC VARIABLE DEPTH CTB

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0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

PAVEMENT IMPROVEMENT PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 64 OF 187 SHEETS

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

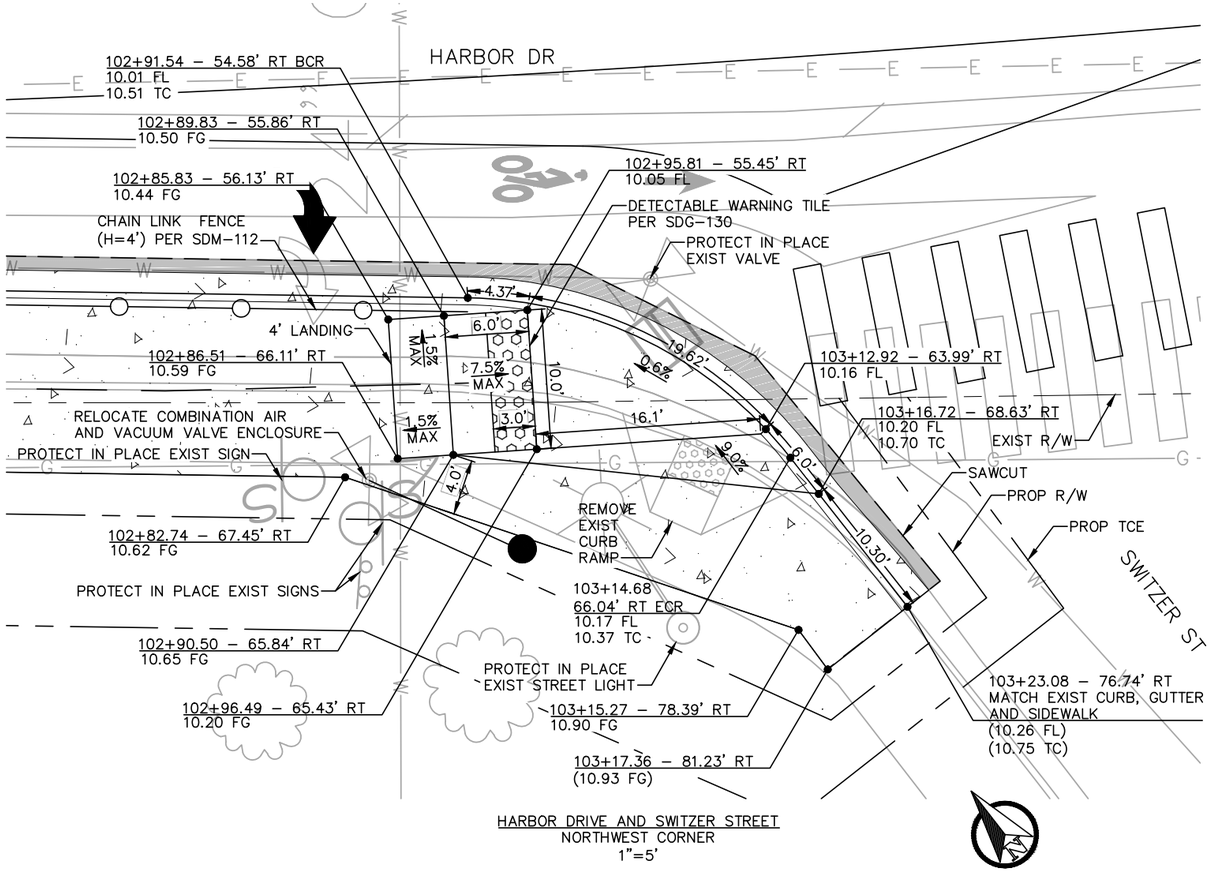
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

PROJECT NO. ____
V.T.M. ____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

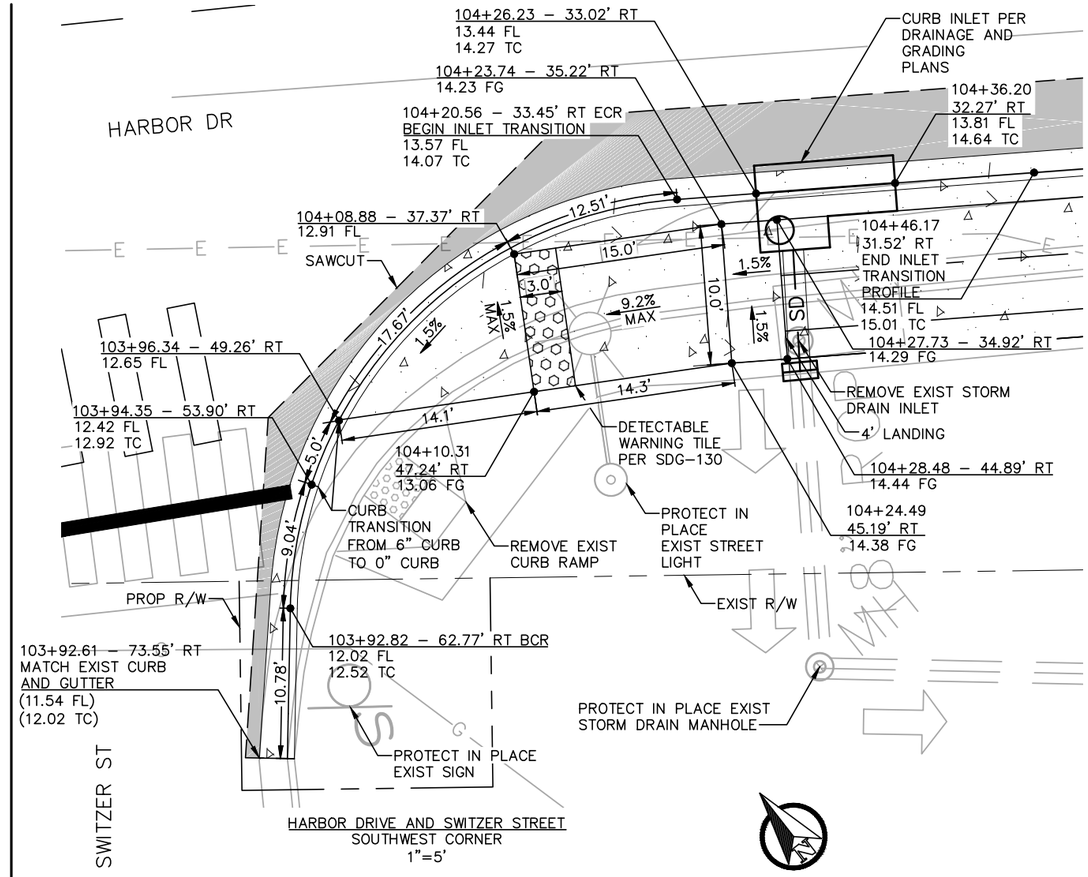
41370- 64-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/3/2019 3:55:04 PM



HARBOR DRIVE AND SWITZER STREET
NORTHWEST CORNER
1"=5'



HARBOR DRIVE AND SWITZER STREET
SOUTHWEST CORNER
1"=5'

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

811 Know what's below. Call before you dig.

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 65 OF 107 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- 65 **-D**

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

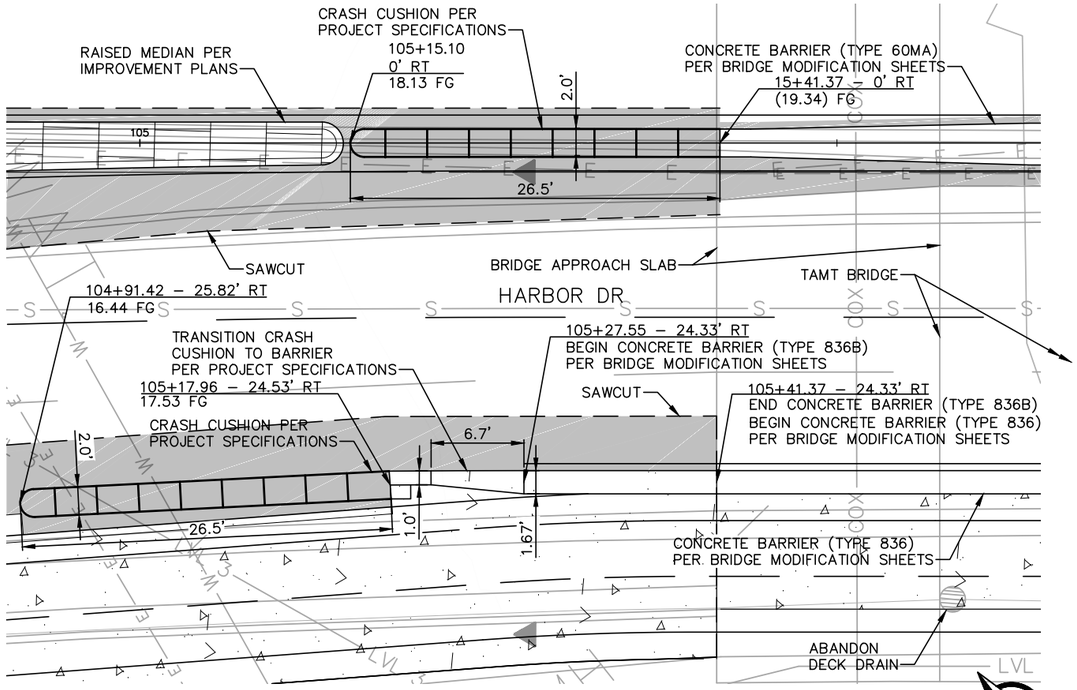
		DATE
DESIGNED BY	A. DODGE	5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

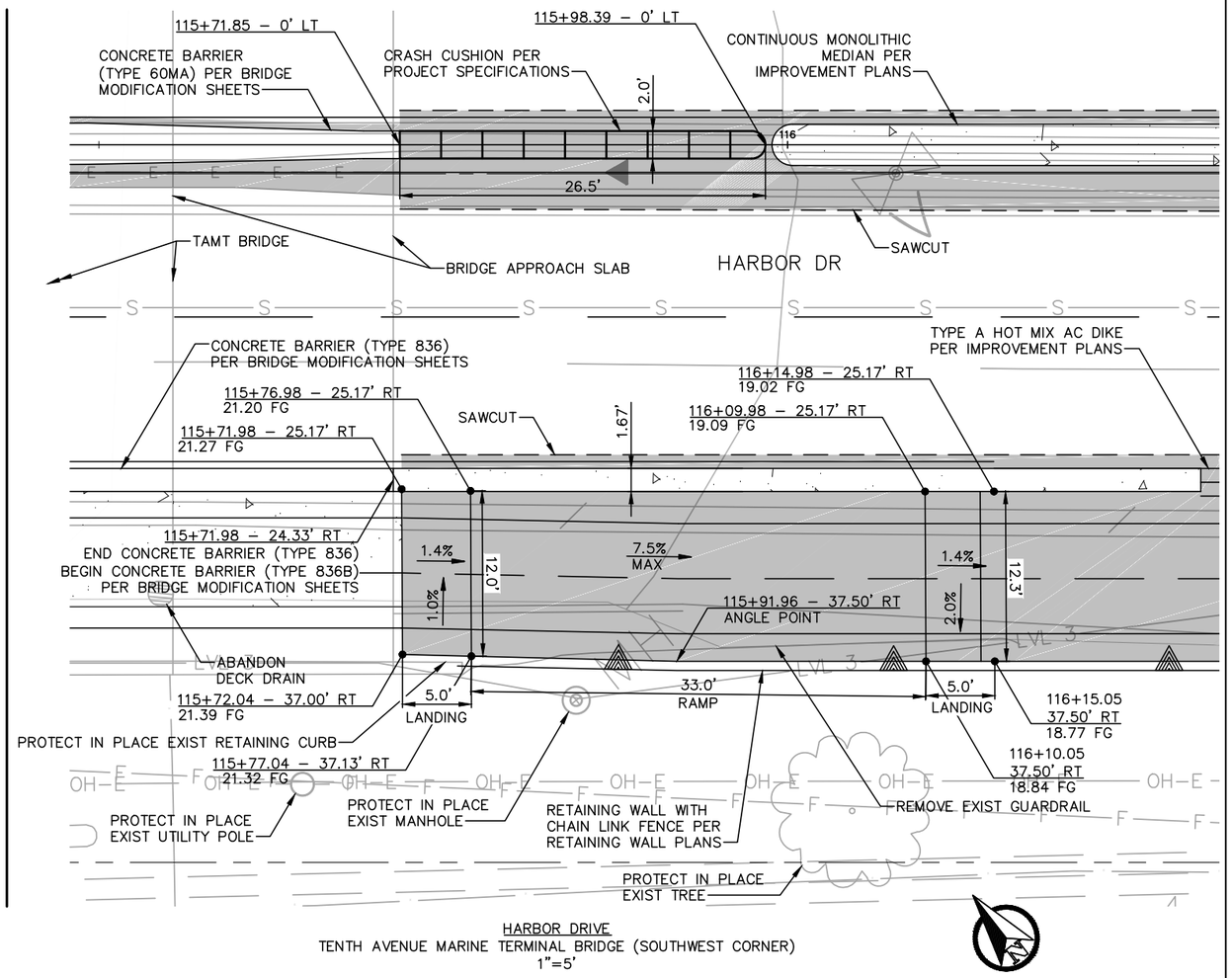
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/5/2019 12:26:51 PM

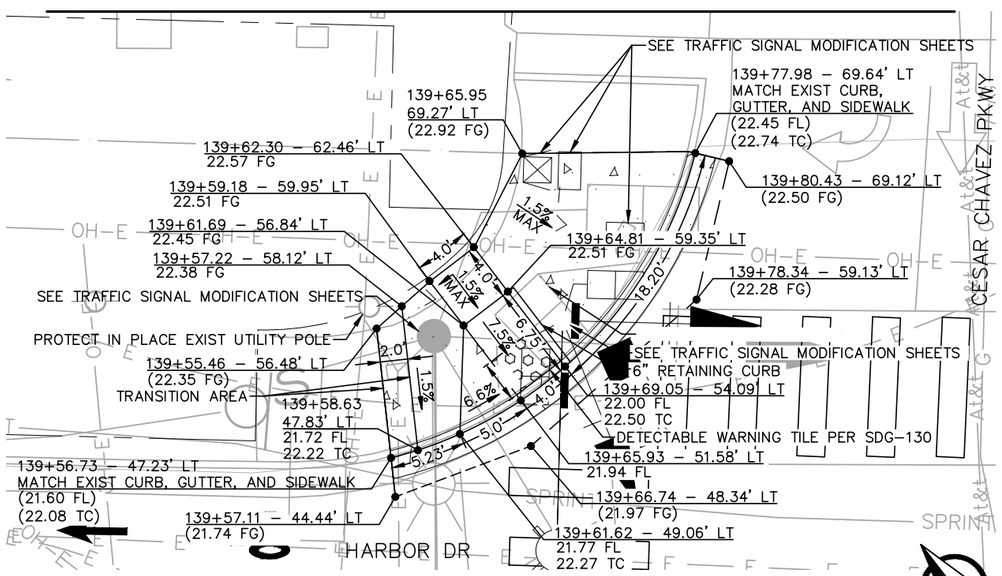
NOT FOR CONSTRUCTION – MAY 6, 2019



HARBOR DRIVE
TENTH AVENUE MARINE TERMINAL BRIDGE (NORTHWEST CORNER)
1"=5'



HARBOR DRIVE
TENTH AVENUE MARINE TERMINAL BRIDGE (SOUTHWEST CORNER)
1"=5'



HARBOR DRIVE AND CESAR CHAVEZ PARKWAY
NORTHEAST CORNER
1"=5'

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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619-741-9400
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ALEC E. RIVERA
No. 87936
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CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. DODGE	5/19
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SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

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SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 66 OF 107 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

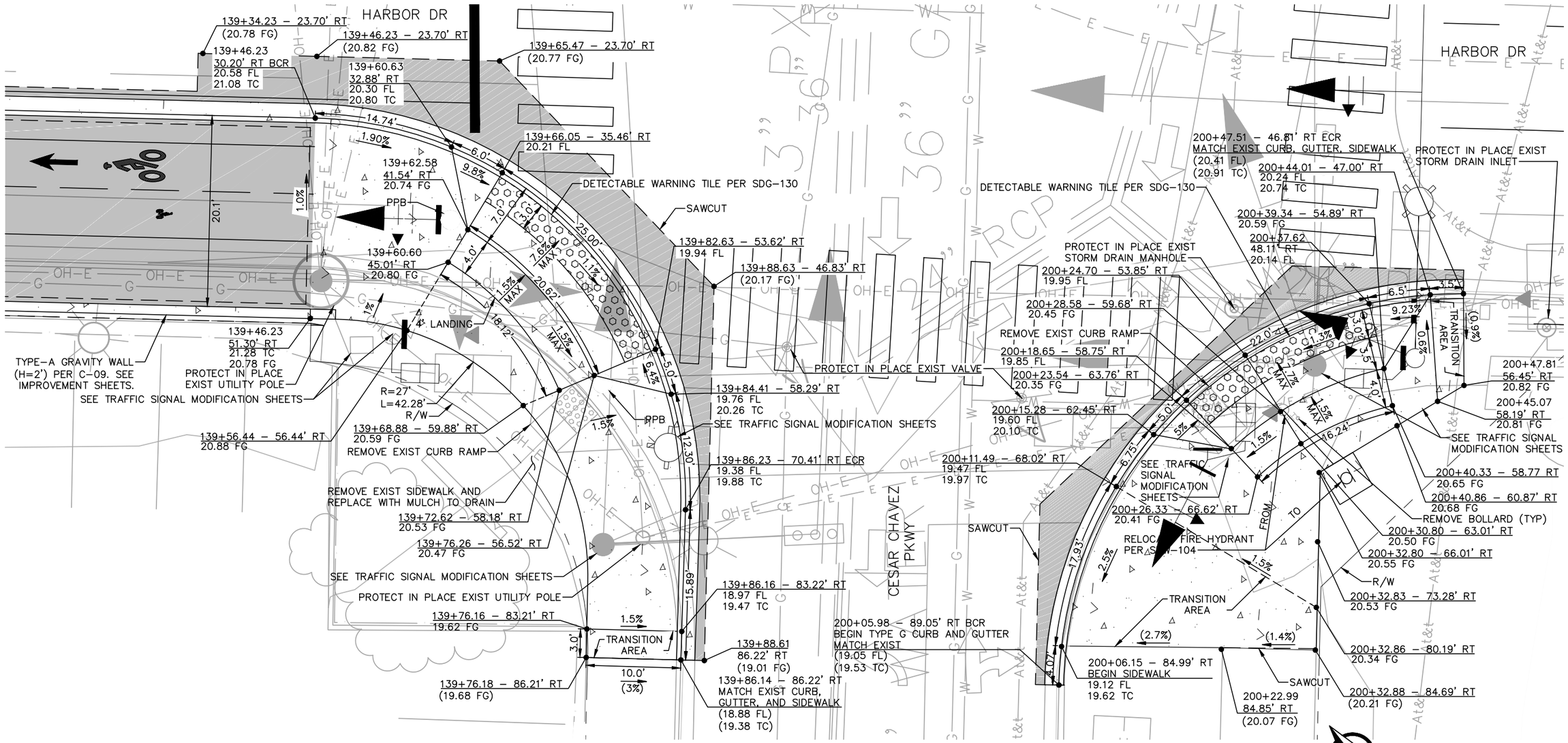
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 66 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 12:31:26 PM



HARBOR DRIVE AND CESAR CHAVEZ PARKWAY
NORTHWEST CORNER
1"=5'

HARBOR DRIVE AND CESAR CHAVEZ PARKWAY
SOUTHWEST CORNER
1"=5'

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

811 Know what's below. Call before you dig.

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 67 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- 67 **-D**

0 1/2 1
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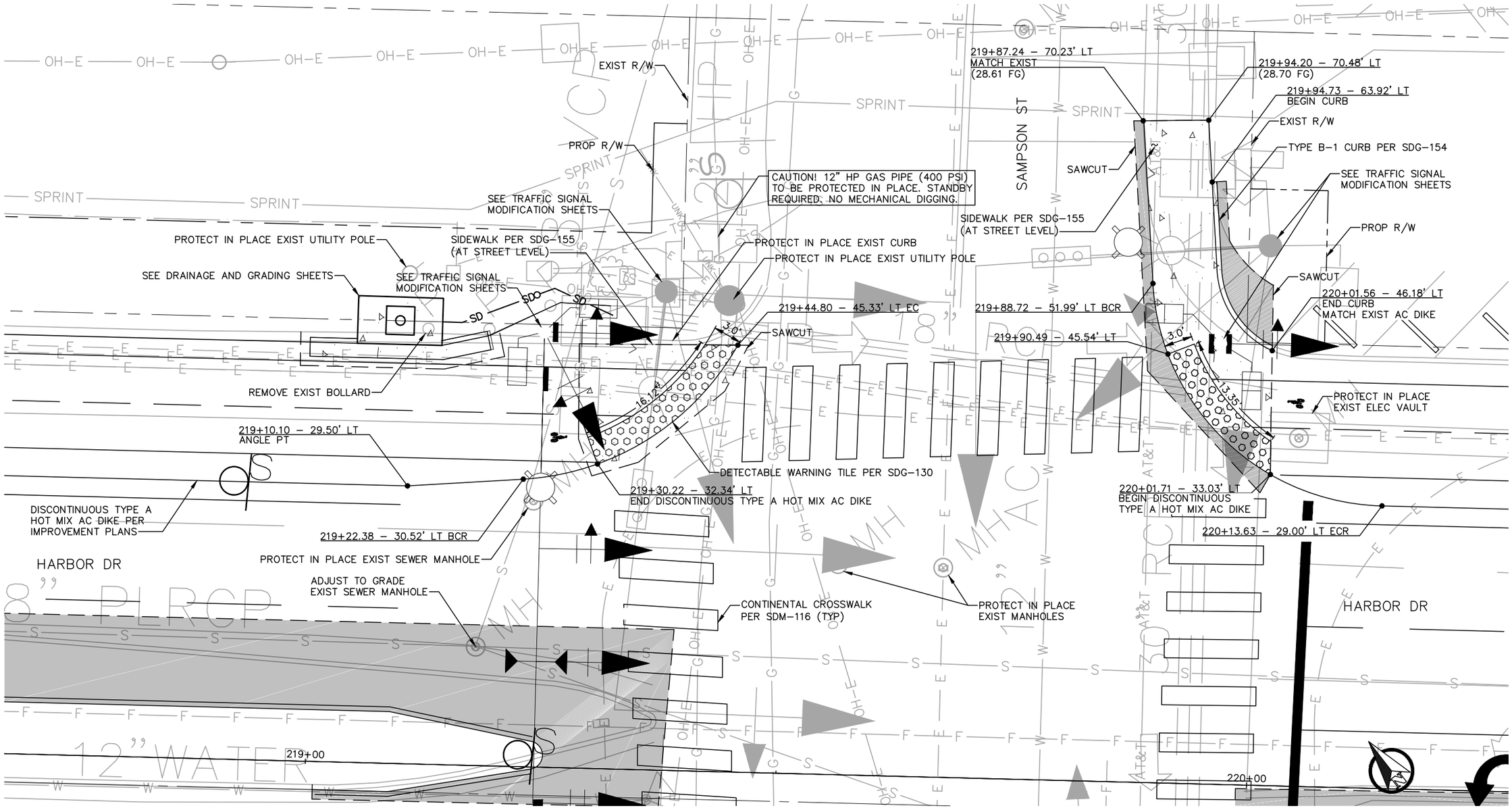
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/5/2019 12:36:10 PM

NOT FOR CONSTRUCTION – MAY 6, 2019



HARBOR DRIVE AND SAMPSON STREET
NORTHEAST CORNER
1"=5'

HARBOR DRIVE AND SAMPSON STREET
SOUTHEAST CORNER
1"=5'

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

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CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. DODGE	DATE 5/19	
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SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 68 OF 187 SHEETS

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

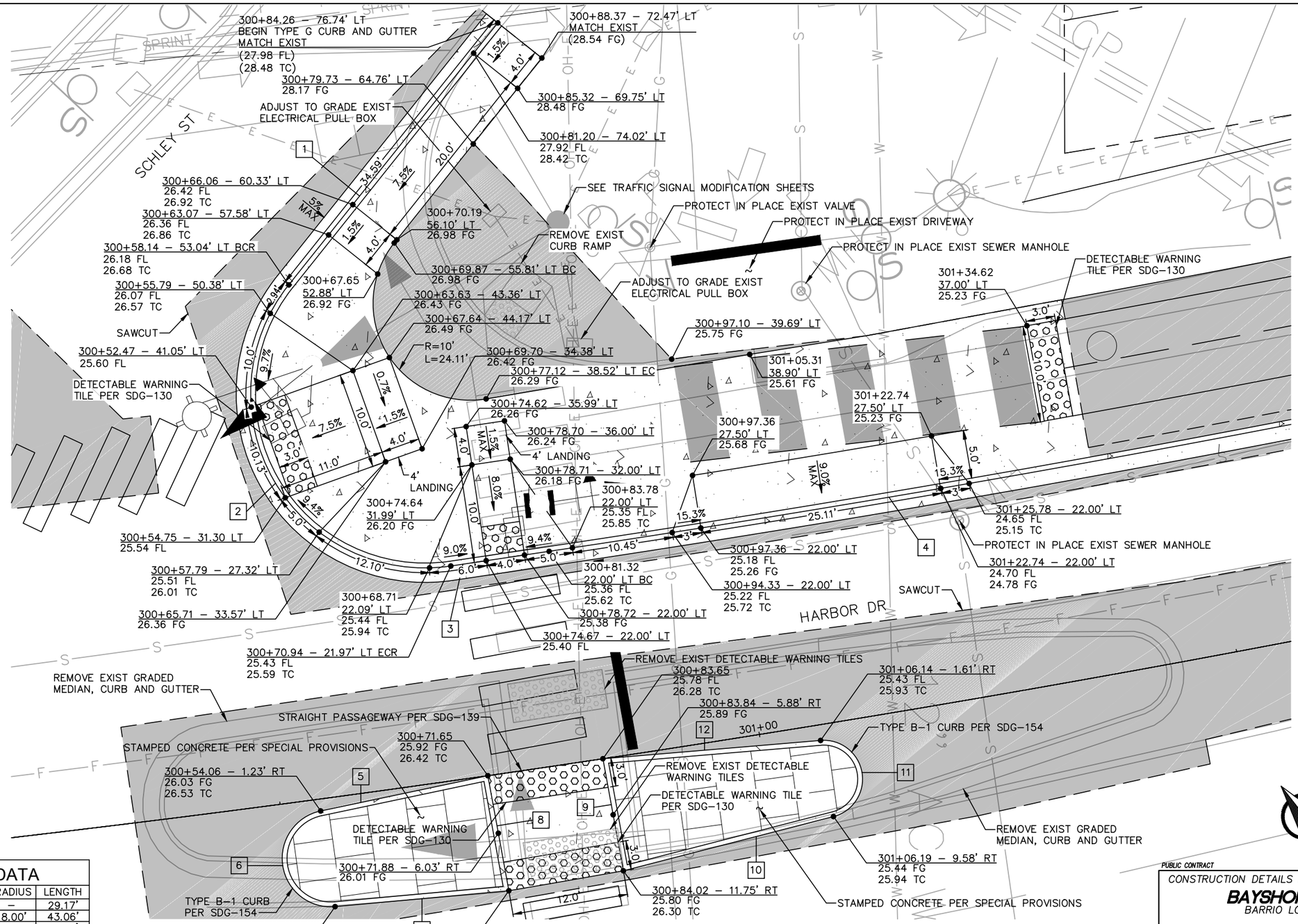
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

41370- 68 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 12:41:11 PM



CURB DATA

No.	BEARING/DELTA	RADIUS	LENGTH
1	S 78°26'25" W	–	29.17'
2	137°04'11"	18.00'	43.06'
3	S 58°37'46" E	–	10.26'
4	8°10'01"	1828.00'	260.57'
5	S 62°03'38" E	–	17.64'
6	173°17'57"	5.00'	15.12'
7	S 55°21'35" E	–	18.02'
8	S 29°30'05" W	–	12.07'
9	S 29°30'05" W	–	11.76'
10	S 64°36'38" E	–	22.40'
11	170°20'20"	4.00'	11.89'
12	S 54°56'58" E	–	22.55'

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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CONTRACT NO. –
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PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 69 OF 107 SHEETS

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

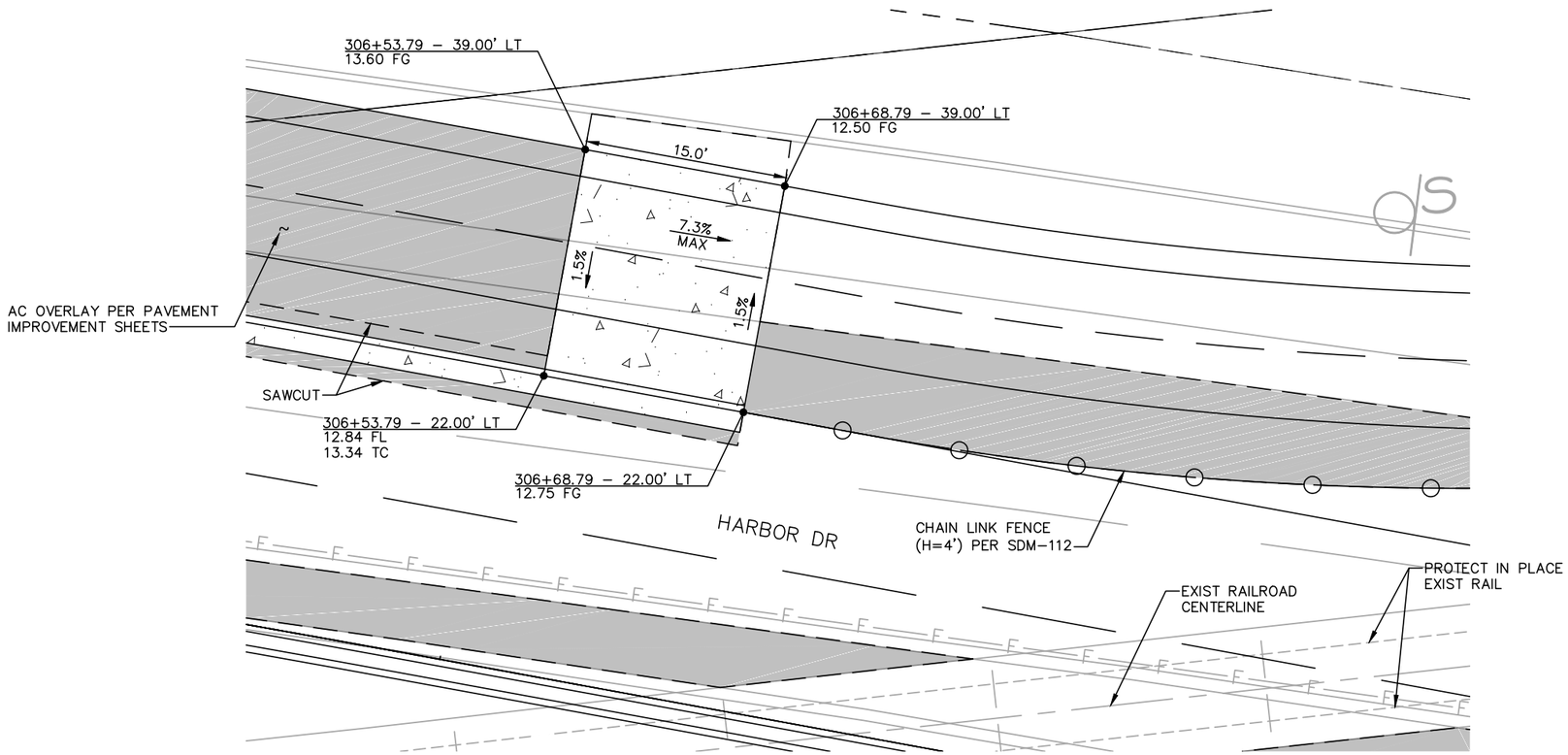
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834–6287
NAD83 COORDINATES
XXX–XXXX
LAMBERT COORDINATES

41370- 69 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 12:45:25 PM



AT-GRADE RAIL CROSSING SOUTH OF SCHLEY STREET
1"=5'

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 70 OF **187** SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 70 **-D**

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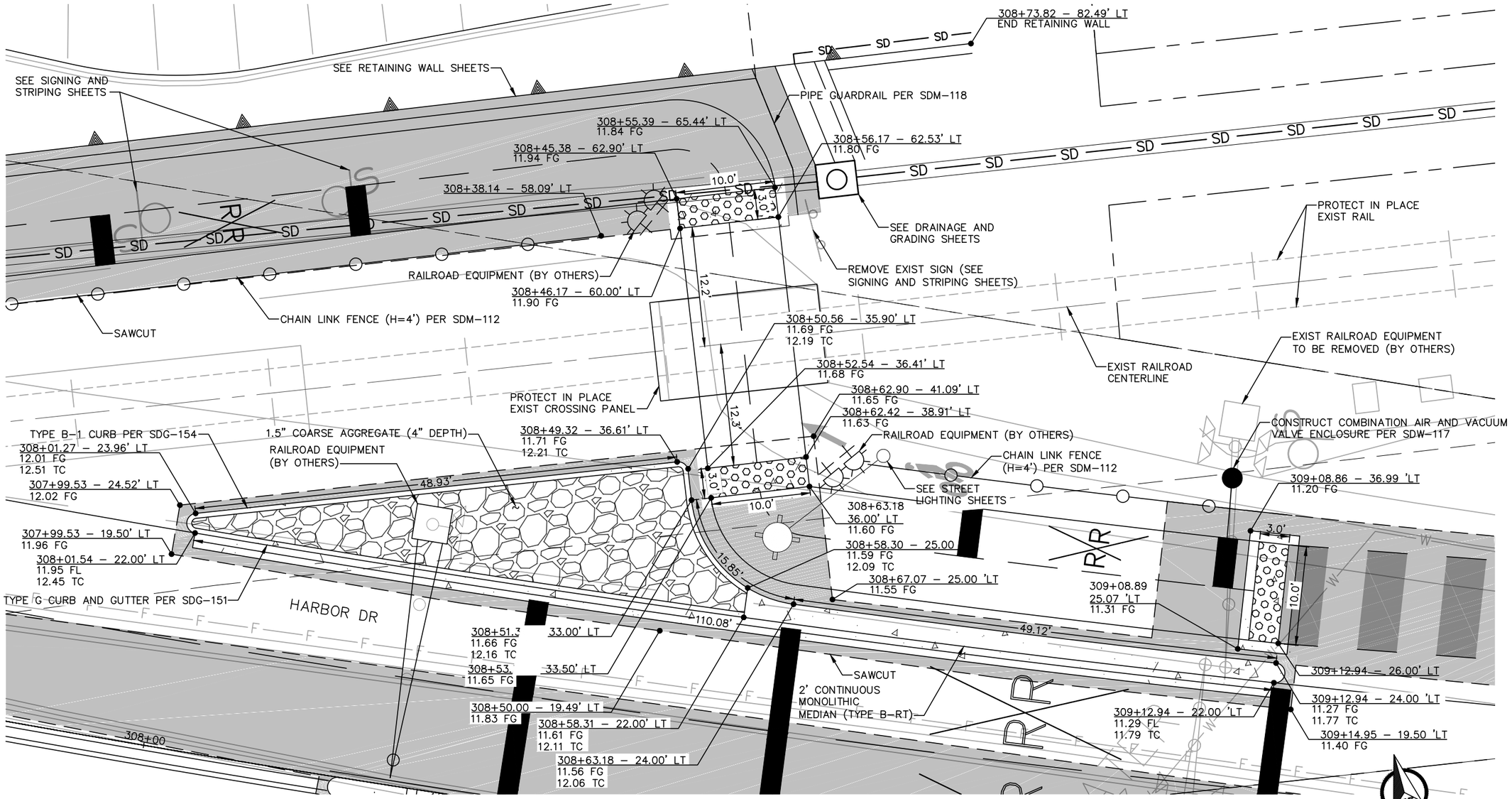
SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 12:49:30 PM



AT–GRADE RAIL CROSSING SOUTH OF SCHLEY STREET
1"=5'

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

811 Know what's below. Call before you dig.

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 71 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

1834–6287
NAD83 COORDINATES

XXX–XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- 71 **-D**

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

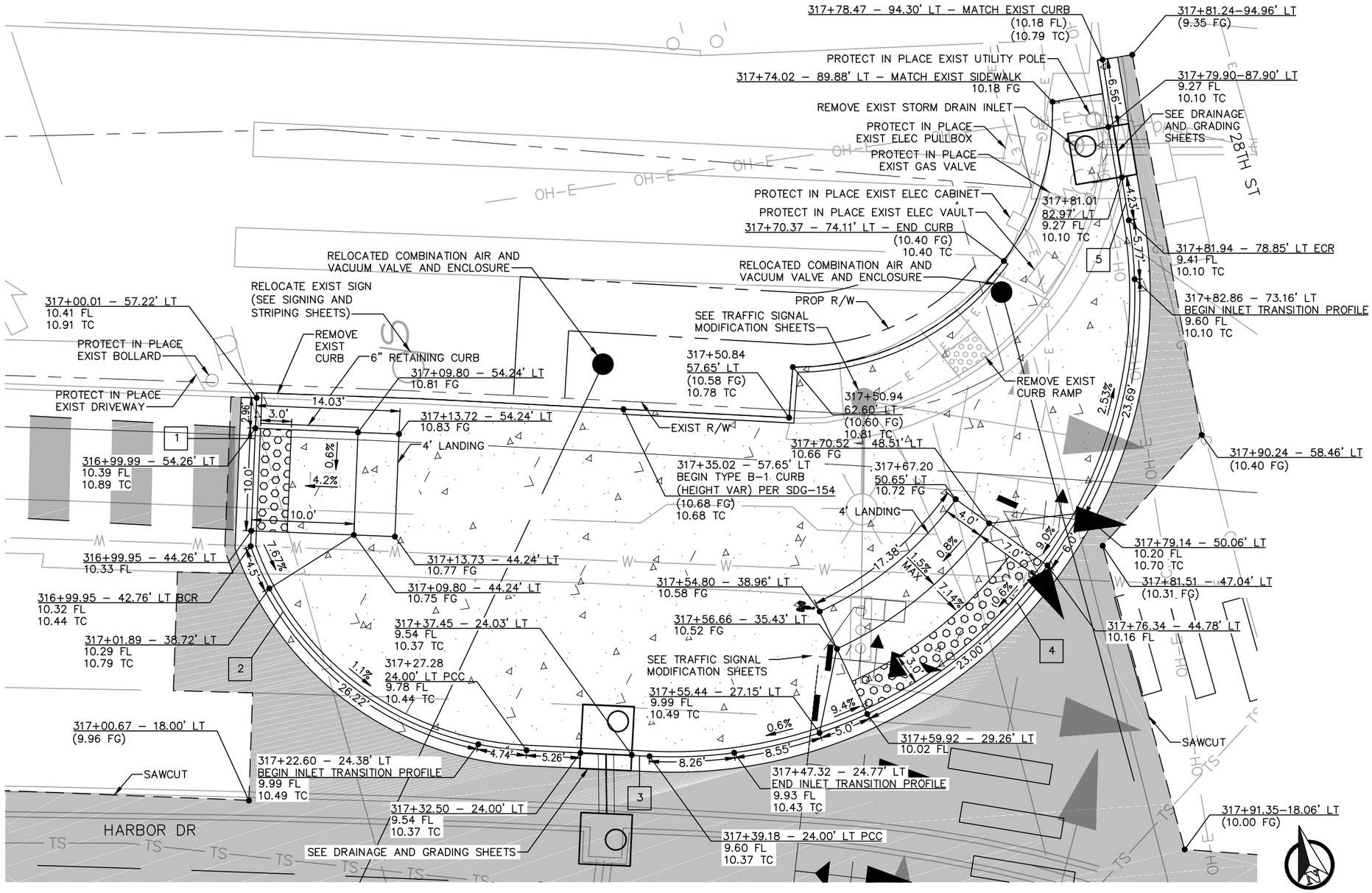
DESIGNED BY	A. DODGE	5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/5/2019 12:54:01 PM

NOT FOR CONSTRUCTION – MAY 6, 2019



HARBOR DRIVE AND 28TH STREET
NORTHEAST CORNER
1"=5'

CURB DATA

No.	BEARING/DELTA	RADIUS	LENGTH
1	S 17°36'52" W	–	14.46'
2	67°43'09"	30.00'	35.46'
3	0°14'46"	2792.00'	12.00'
4	102°11'49"	45.00'	80.27'
5	N 5°59'40" E	–	15.86'

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. DODGE	5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 72 OF 187 SHEETS

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

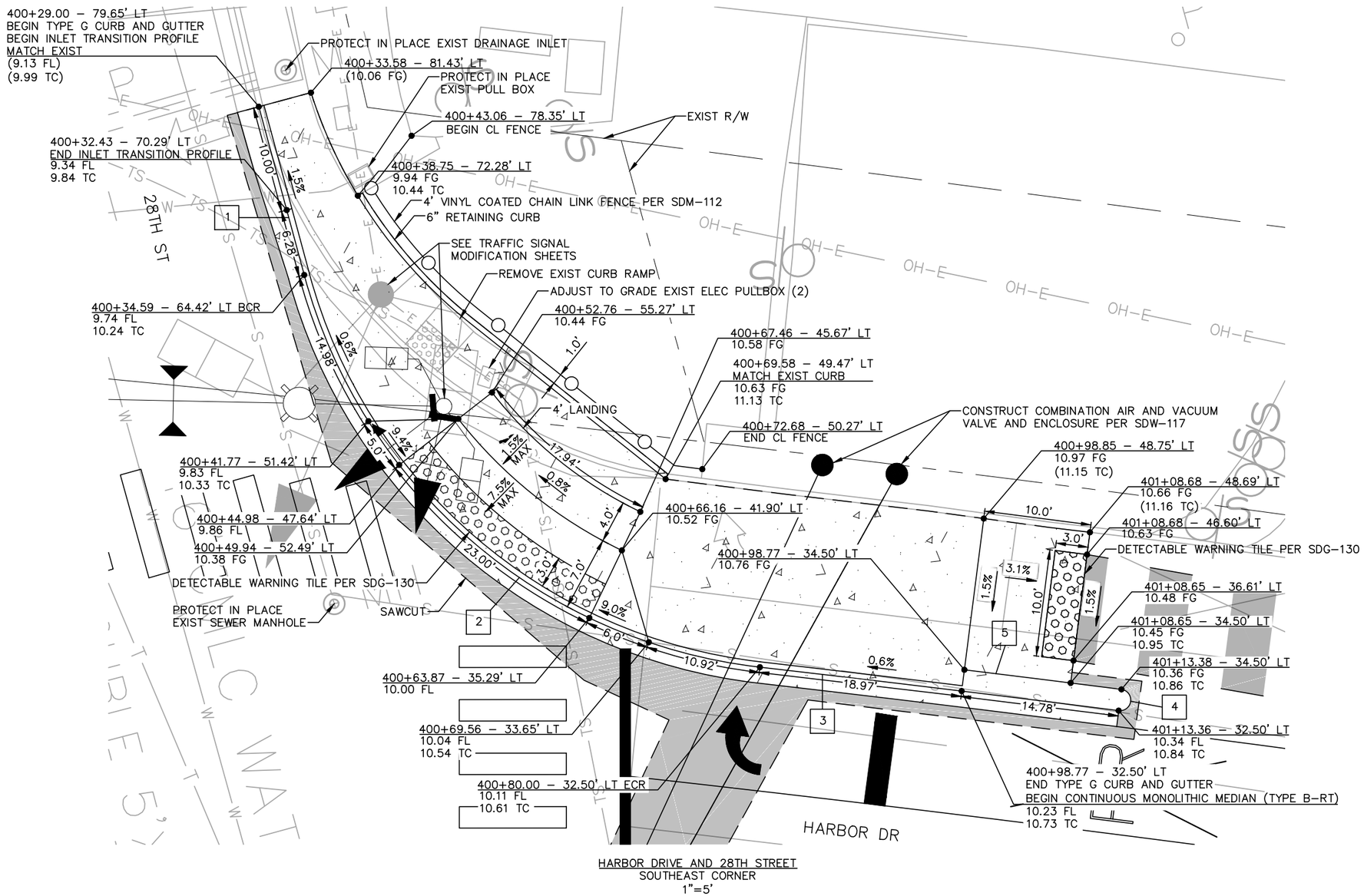
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834–6287 NAD83 COORDINATES
XXX–XXXX LAMBERT COORDINATES

41370- 72 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 12:58:28 PM



CURB DATA

No.	BEARING/DELTA	RADIUS	LENGTH
1	S 0°11'45" W	–	16.28'
2	68°20'01"	50.00'	59.63'
3	0°41'33"	2792.50'	33.75'
4	180°00'00"	1.00'	3.14'
5	0°18'11"	2794.50'	14.78'

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

811 Know what's below. Call before you dig.

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 73 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

1834–6287
NAD83 COORDINATES

XXX–XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

0 1/2 1

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www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. DODGE	5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN

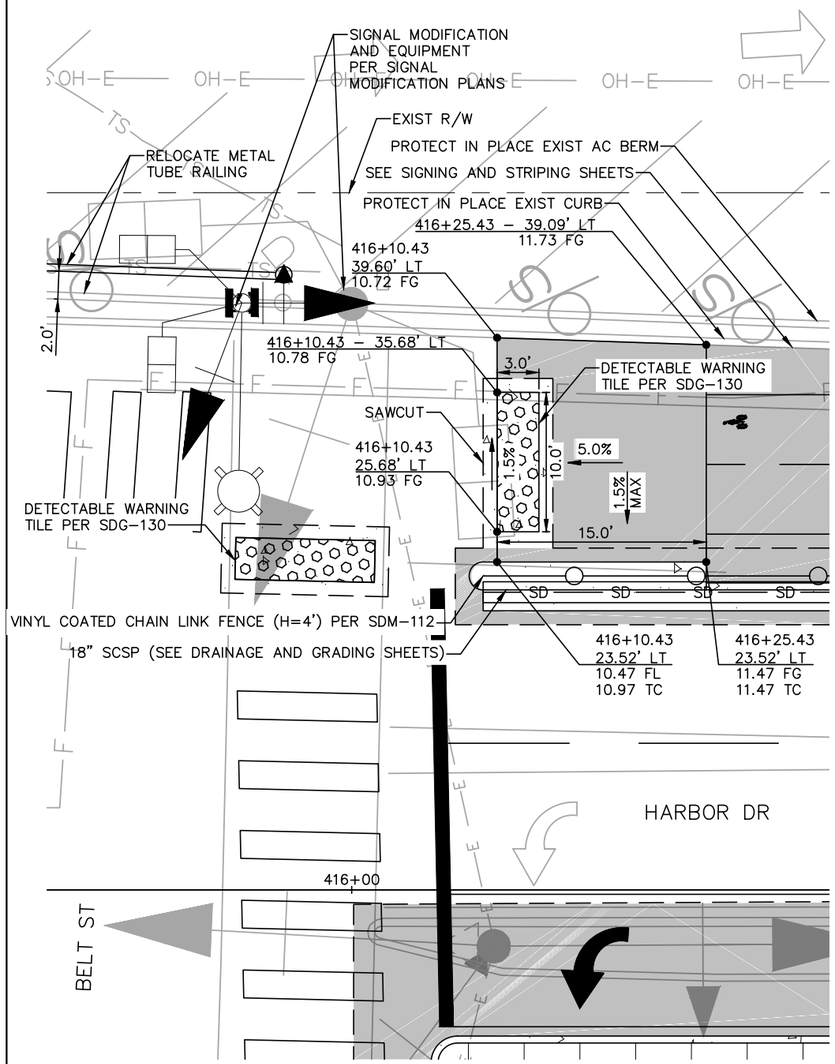
CONTRACT NO. –

DRAWING NO. –

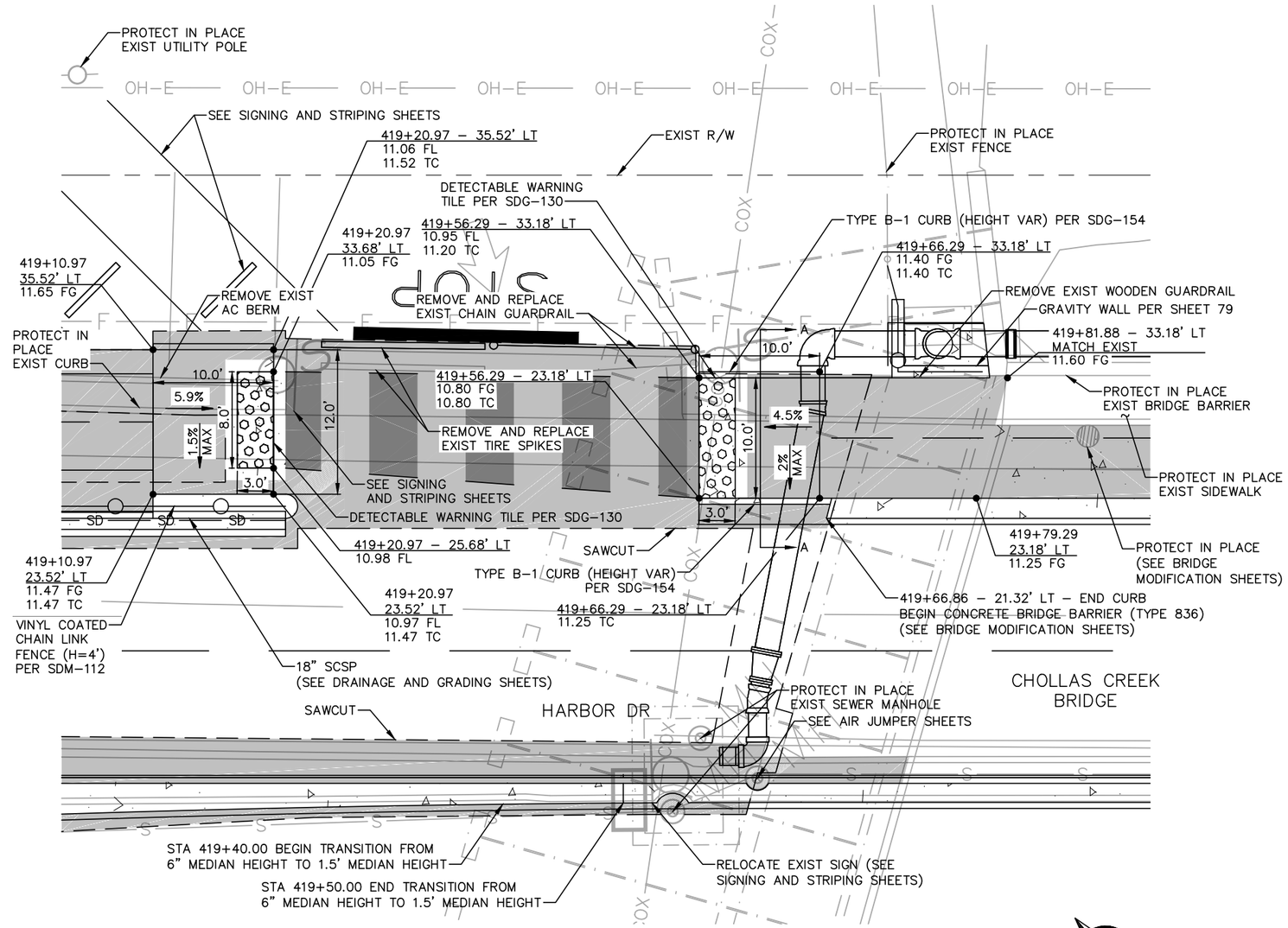
SHEET NO. **41370- 73 -D**

NOT FOR CONSTRUCTION – MAY 6, 2019

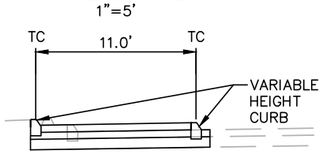
5/5/2019 1:02:36 PM



HARBOR DRIVE AND BELT STREET
SOUTHEAST CORNER
1"=5'



HARBOR DRIVE – CHOLLAS CREEK BRIDGE
NORTHEAST CORNER
1"=5'



SECTION A–A
1"=5'

NOTES:
1. FOR MEDIAN TRANSITION FROM 1.5' HEIGHT TO 6" HEIGHT, SEE DETAIL ON SHEET 85.

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 74 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370- 74 -D

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. DODGE	5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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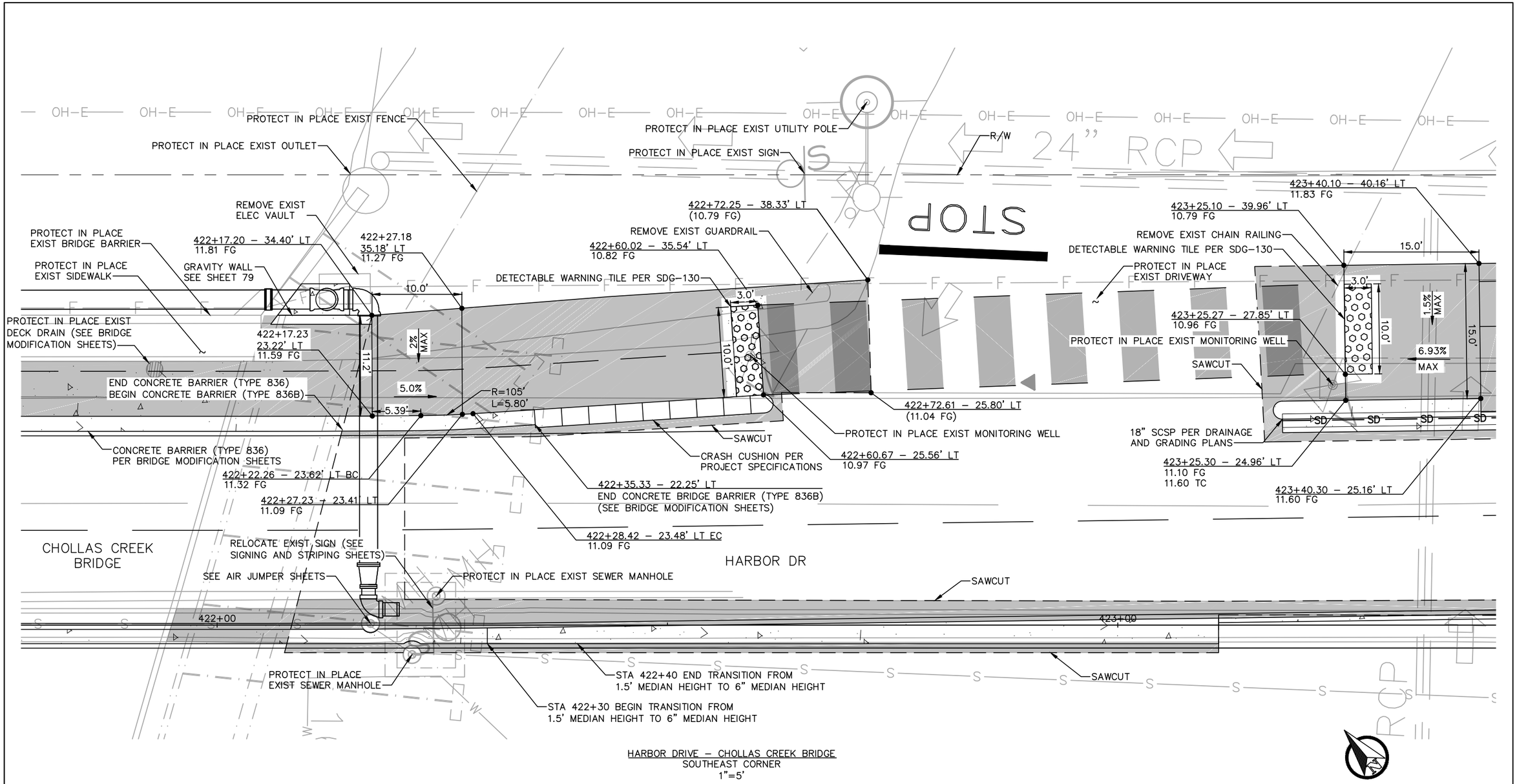
NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 2:30:58 PM



HARBOR DRIVE – CHOLLAS CREEK BRIDGE
SOUTHEAST CORNER
1"=5'

NOTES:
1. FOR MEDIAN TRANSITION FROM 1.5' HEIGHT TO 6" HEIGHT, SEE DETAIL ON SHEET 85.

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 75 OF **187** SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 75 **-D**

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. DODGE	5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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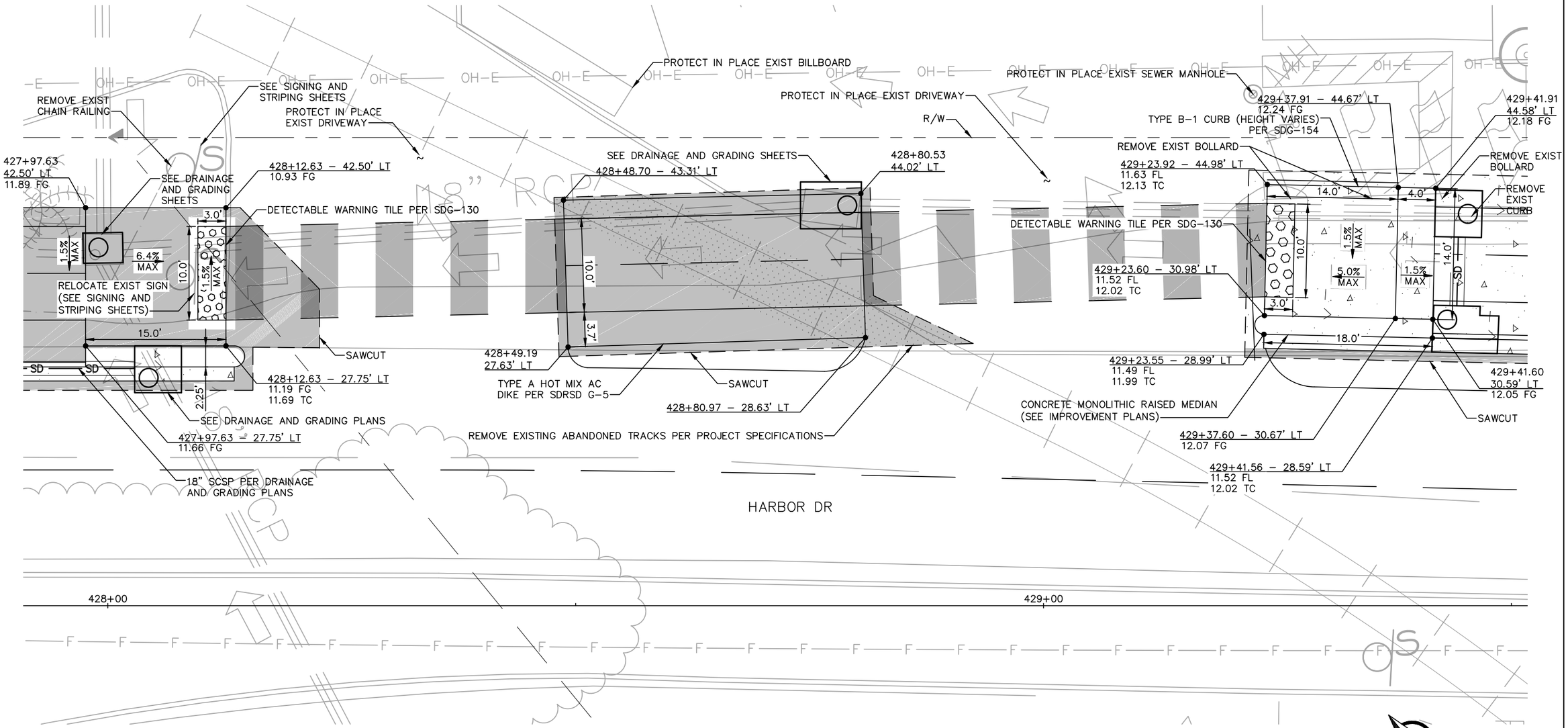
5/5/2019 2:38:12 PM



HARBOR DRIVE – SOUTH OF CHOLLAS CREEK BRIDGE
1"=5'

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

811 Know what's below. Call before you dig.

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 76 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- 76 **-D**

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

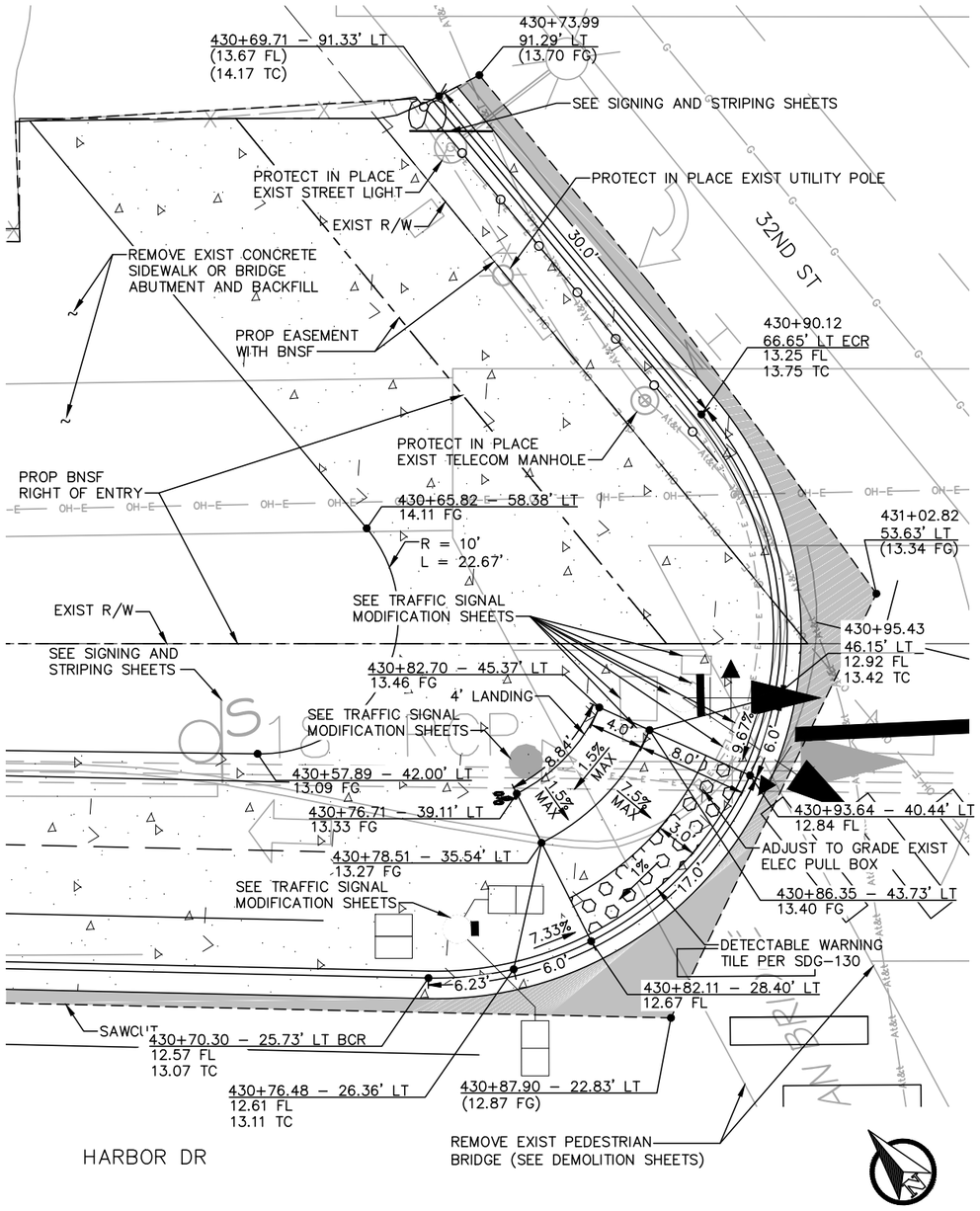
		DATE
DESIGNED BY	A. DODGE	5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

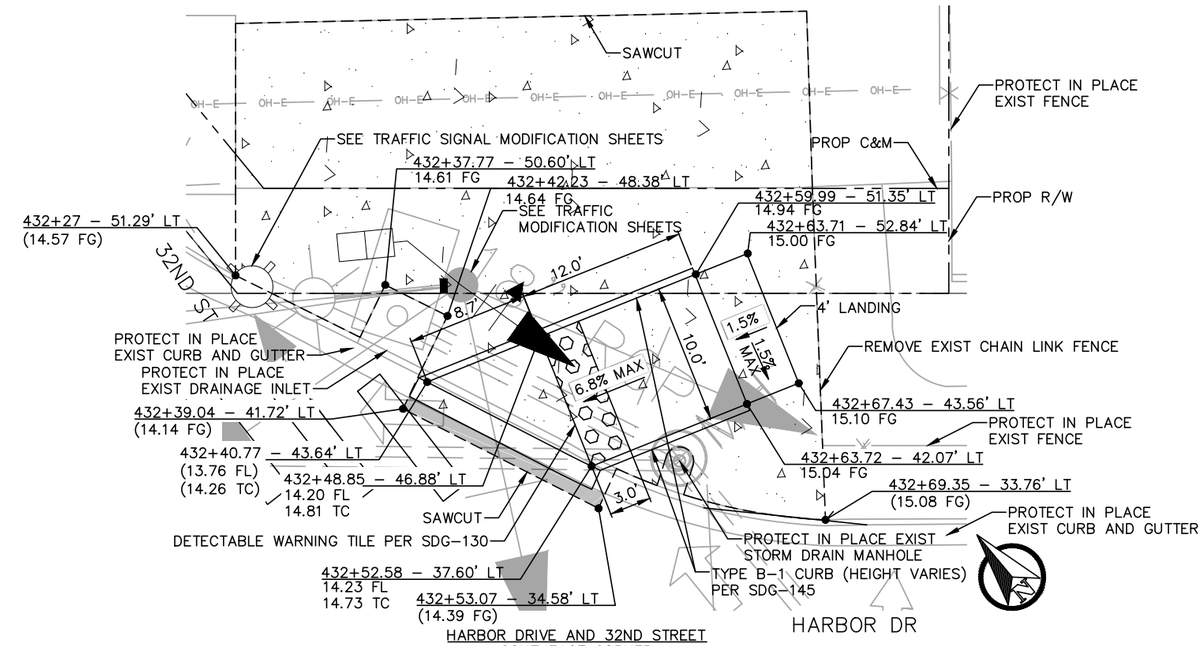
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

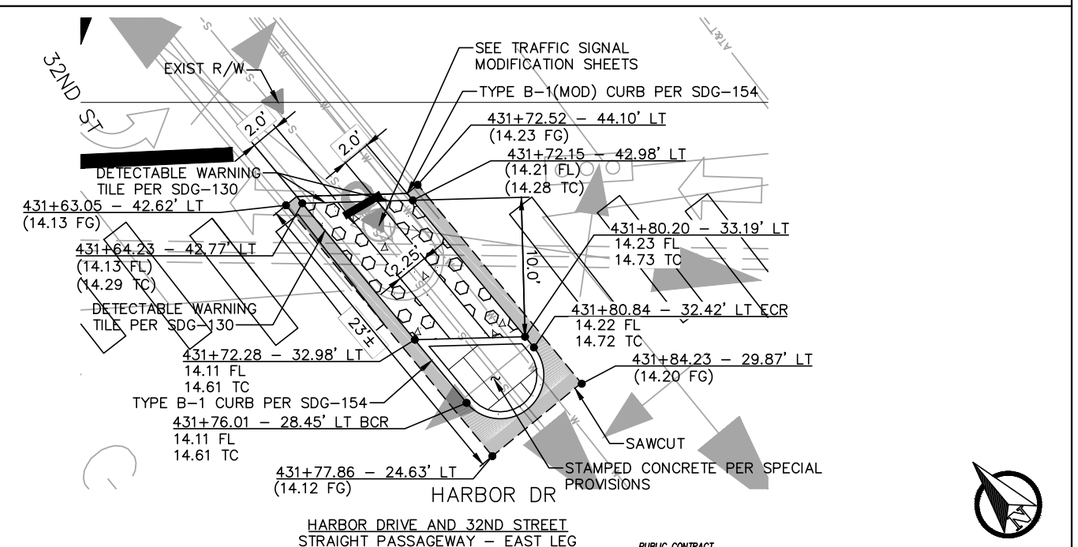
5/5/2019 2:41:20 PM



HARBOR DRIVE AND 32ND STREET
NORTHEAST CORNER
1"=5'



HARBOR DRIVE AND 32ND STREET
SOUTHEAST CORNER
1"=5'



HARBOR DRIVE AND 32ND STREET
STRAIGHT PASSAGEWAY – EAST LEG
1"=5'

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

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CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 77 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370- 77 -D

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

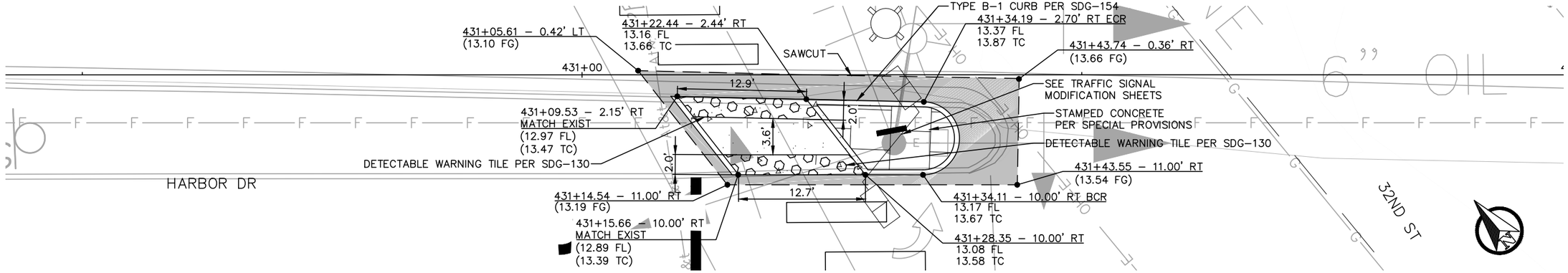
DESIGNED BY	A. DODGE	5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

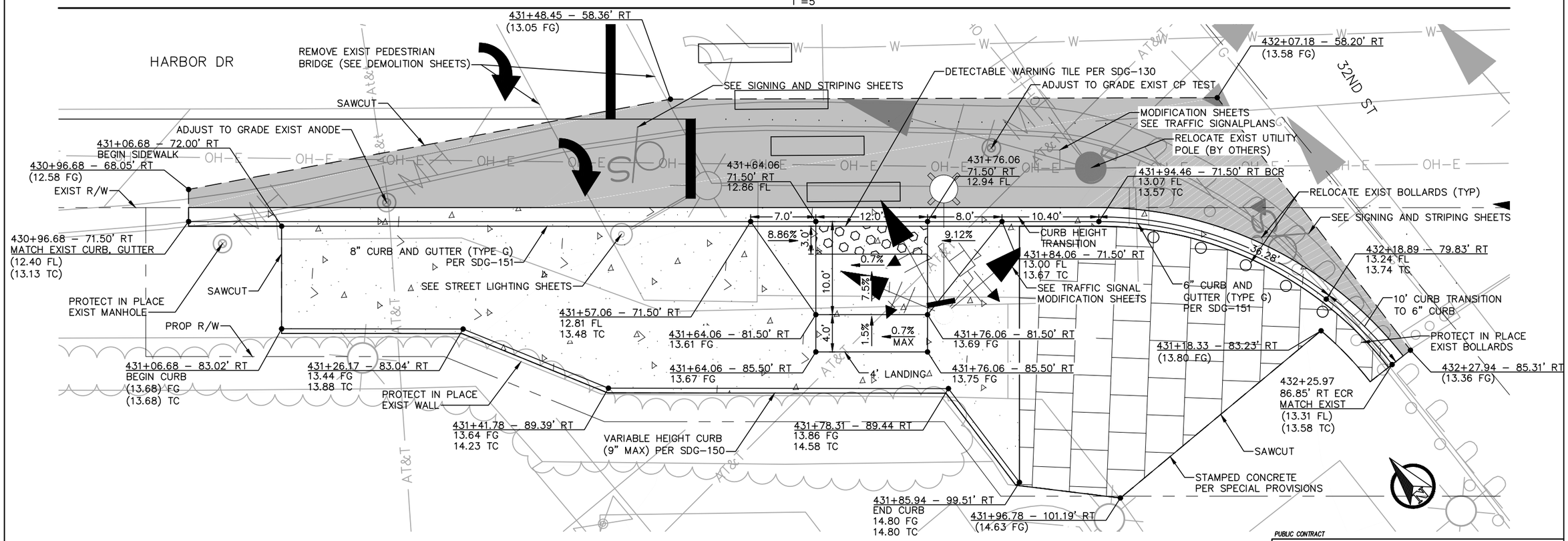
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 2:46:42 PM



HARBOR DRIVE AND 32ND STREET
STRAIGHT PASSAGEWAY – NORTH LEG
1"=5'



HARBOR DRIVE AND 32ND STREET
NORTHWEST CORNER
1"=5'

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

811 Know what's below. Call before you dig.

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 78 OF 187 SHEETS

PROJECT NO.
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FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 78 **-D**

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

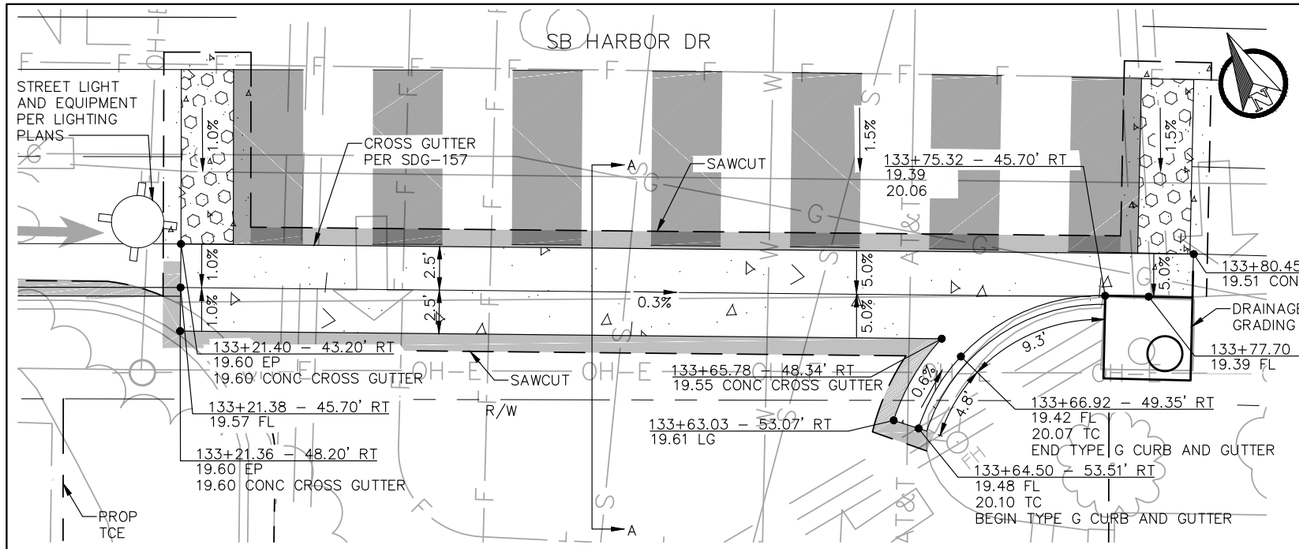
		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RIVERA	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

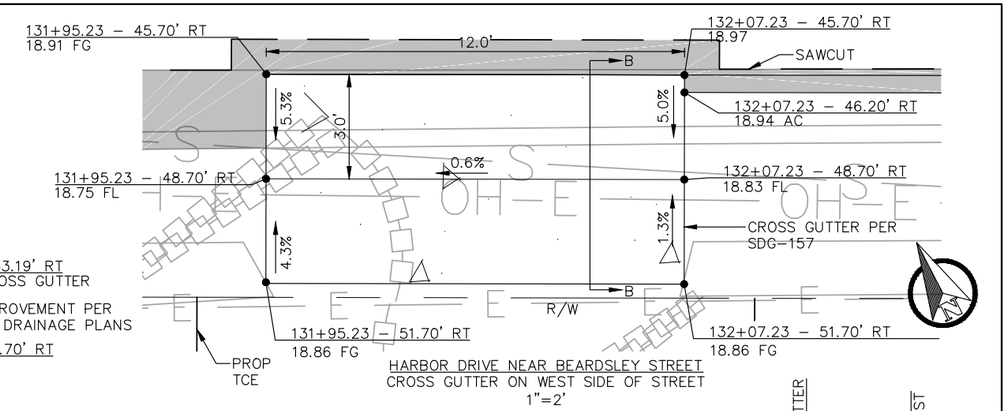
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/5/2019 2:51:54 PM

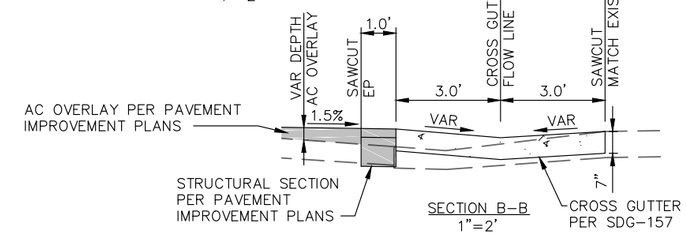
NOT FOR CONSTRUCTION – MAY 6, 2019



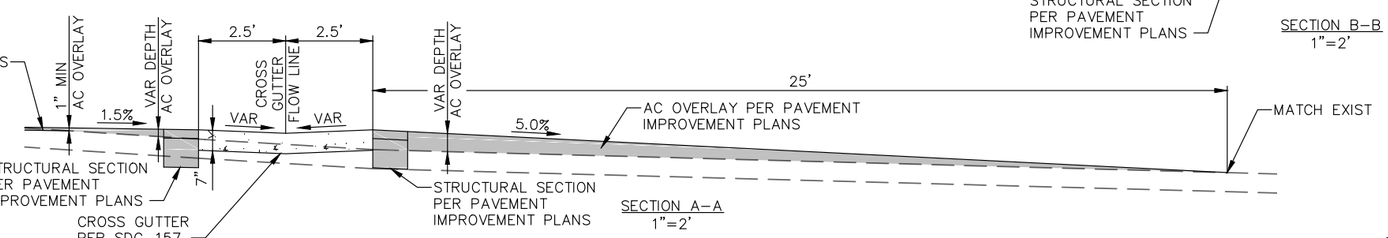
HARBOR DRIVE AT BEARDSLEY STREET
CROSS GUTTER ON WEST SIDE OF STREET
1"=4'



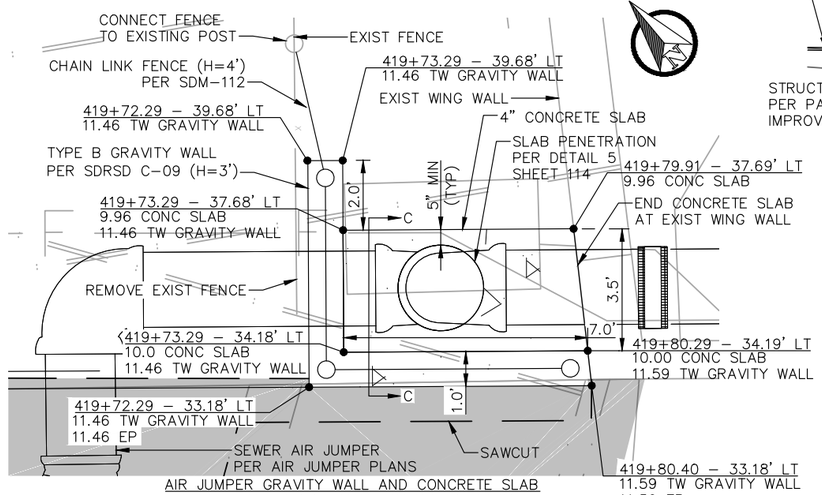
HARBOR DRIVE NEAR BEARDSLEY STREET
CROSS GUTTER ON WEST SIDE OF STREET
1"=2'



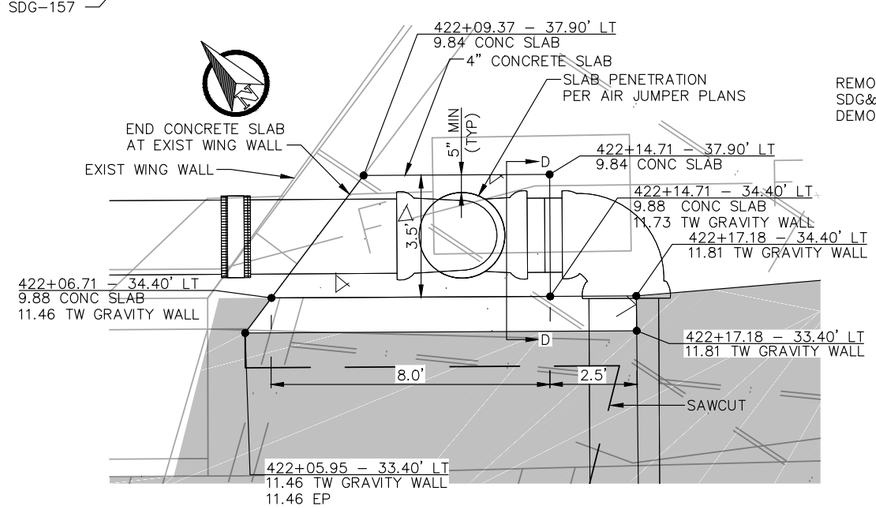
SECTION B–B
1"=2'



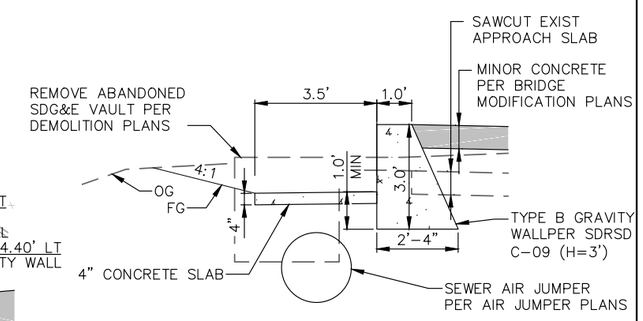
SECTION A–A
1"=2'



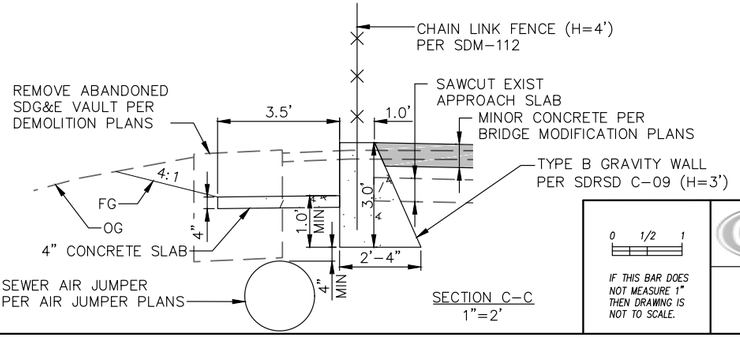
AIR JUMPER GRAVITY WALL AND CONCRETE SLAB
NORTHEAST END OF CHOLLAS CREEK BRIDGE
1"=2'



AIR JUMPER GRAVITY WALL AND CONCRETE SLAB
SOUTHEAST END OF CHOLLAS CREEK BRIDGE
1"=2'



SECTION D–D
1"=2'



SECTION C–C
1"=2'

0 1/2 1
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La Mesa, CA 91942
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www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY J. LAHAYE	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 79 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

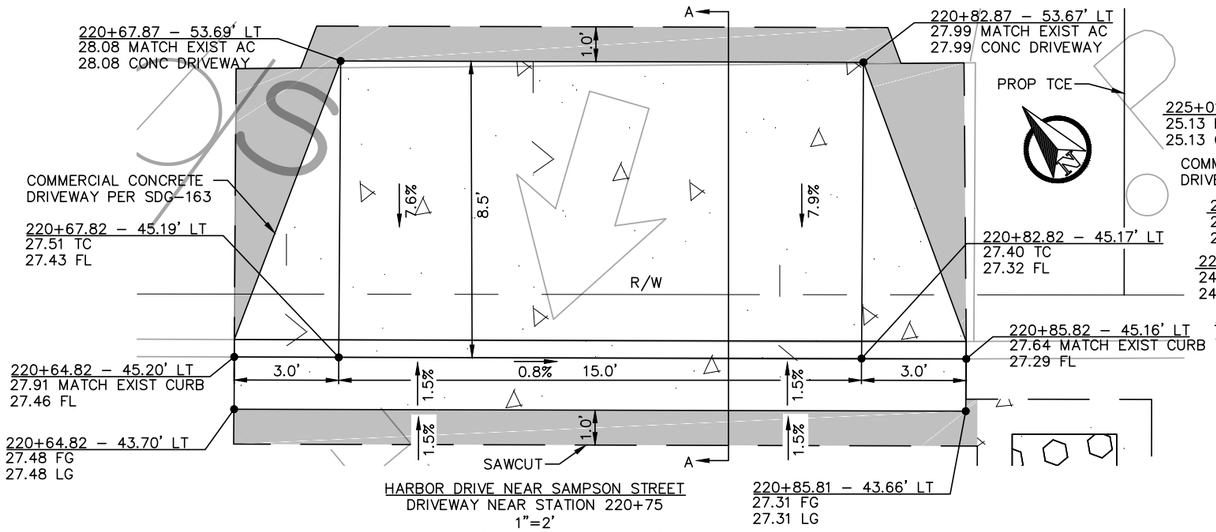
1834–6287
NAD83 COORDINATES
XXX–XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

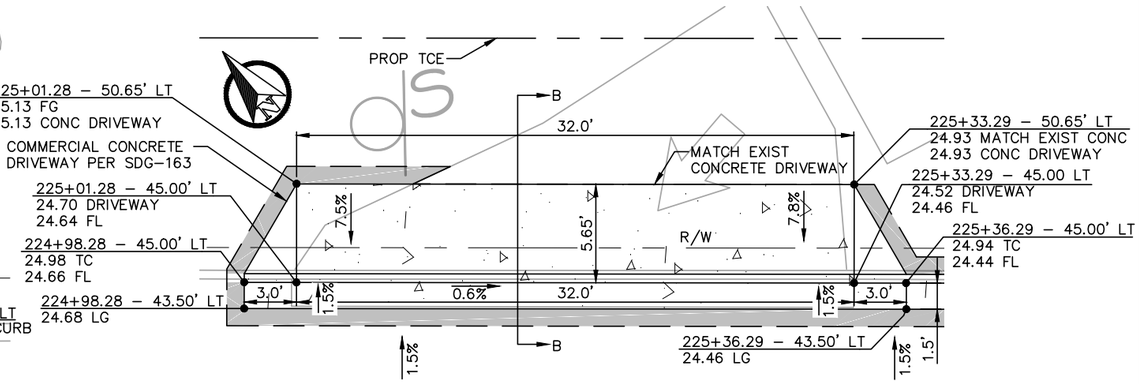
41370- 79 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

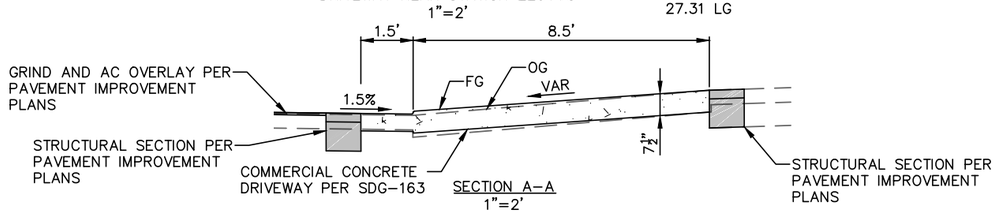
5/6/2019 10:29:50 AM



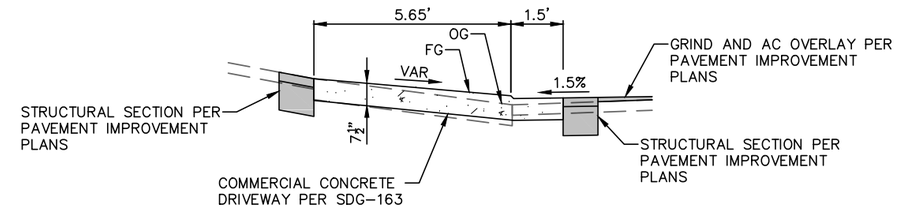
HARBOR DRIVE NEAR SAMPSON STREET
DRIVEWAY NEAR STATION 220+75
1"=2'



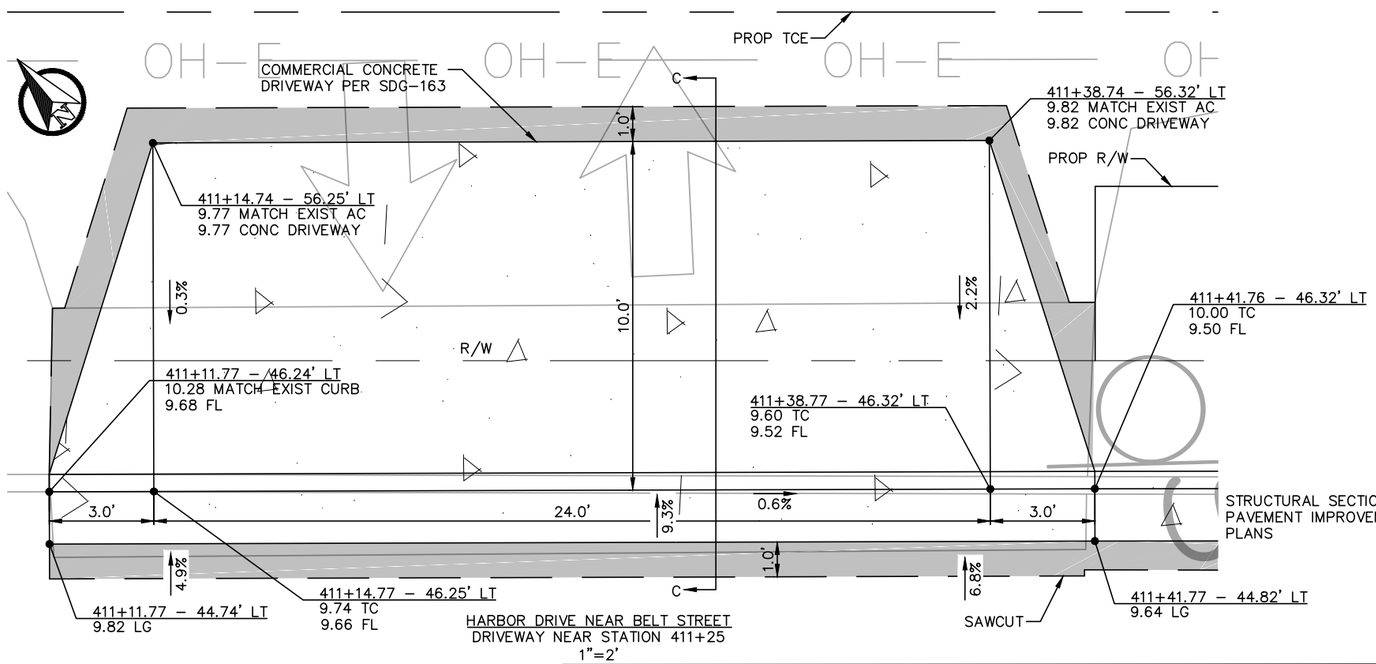
HARBOR DRIVE NEAR SICARD STREET
DRIVEWAY NEAR STATION 225+15
1"=4'



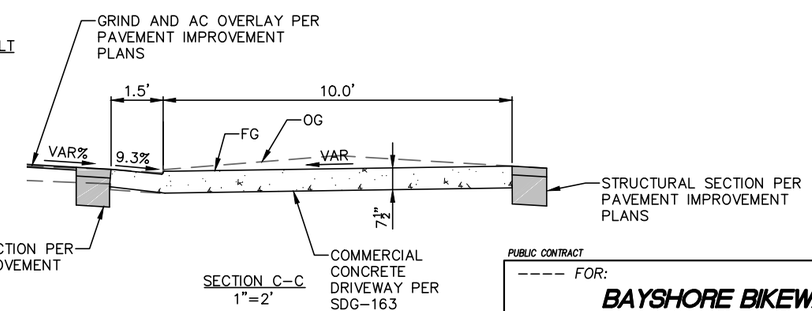
SECTION A–A
1"=2'



SECTION B–B
1"=2'



HARBOR DRIVE NEAR BELT STREET
DRIVEWAY NEAR STATION 411+25
1"=2'



SECTION C–C
1"=2'

PUBLIC CONTRACT

---- FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 80 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- 80-**D**

811 Know what's below. Call before you dig.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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Quality Infrastructure Corporation
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619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

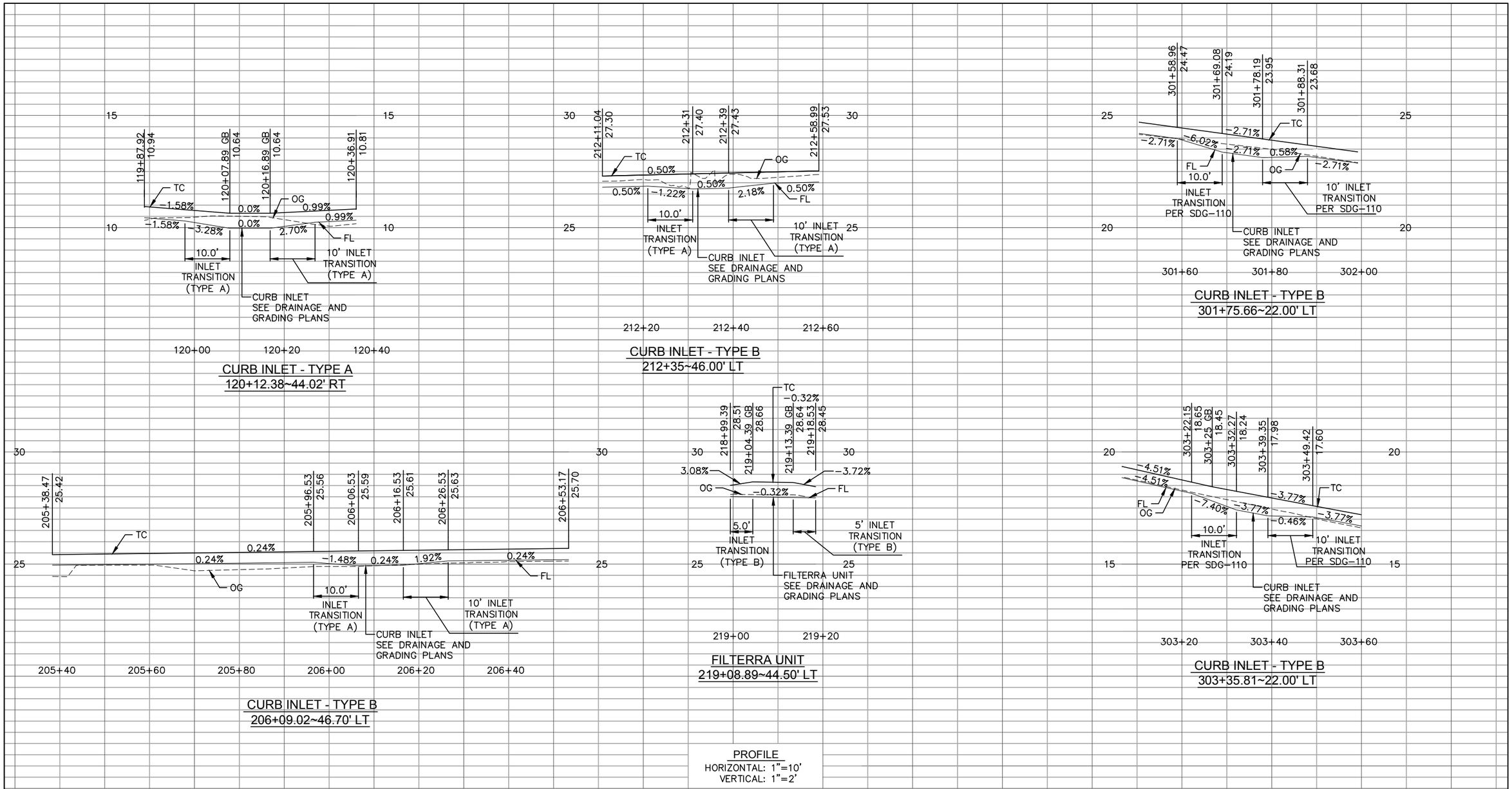
		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	J. LAHAYE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 3:02:30 PM



10 0 10 20 FEET
1"=10'

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY J. LAHAYE	DATE 5/19	
DRAWN BY J. LAHAYE	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
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PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 81 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

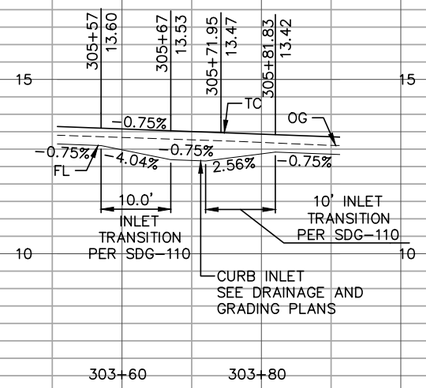
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

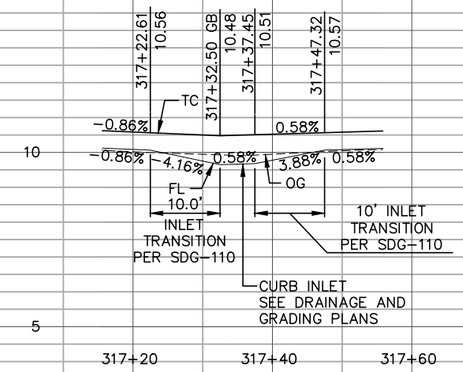
41370- 81 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

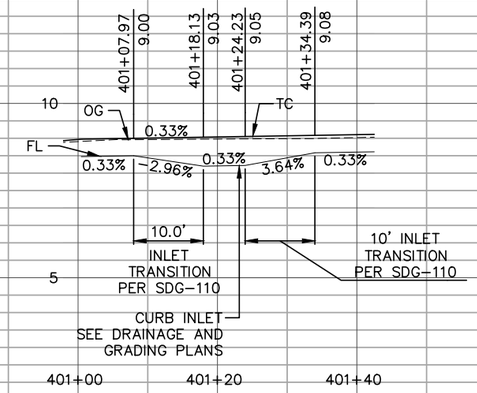
5/5/2019 3:08:21 PM



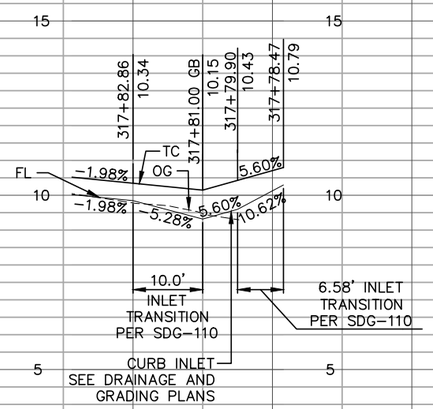
CURB INLET - TYPE B
305+69.48~22.00' LT



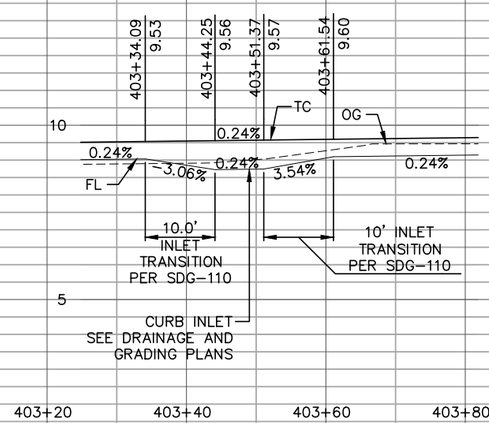
CURB INLET - TYPE B
317+34.98~24.02' LT



CURB INLET - TYPE A
401+21.18~43.61' RT



CURB INLET - TYPE B
317+81.53~85.86' LT



CURB INLET - TYPE A
403+46.80~44.03' RT

PROFILE
HORIZONTAL: 1"=10'
VERTICAL: 1"=2'

10 0 10 20 FEET
1"=10'

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0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY J. LAHAYE	DATE 5/19	
DRAWN BY J. LAHAYE	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 82 OF 107 SHEETS

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

41370- 82 **-D**

5/5/2019 3:16:14 PM

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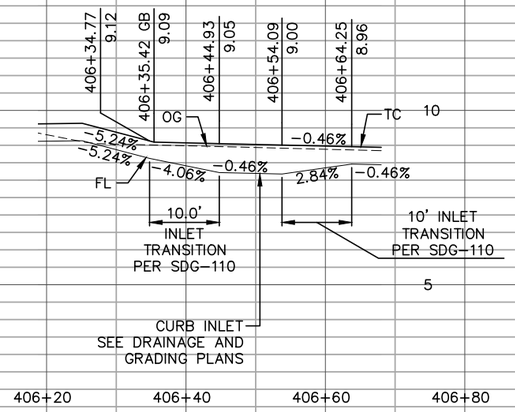
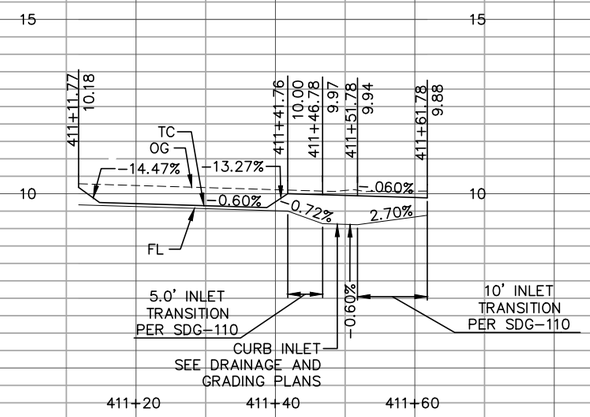
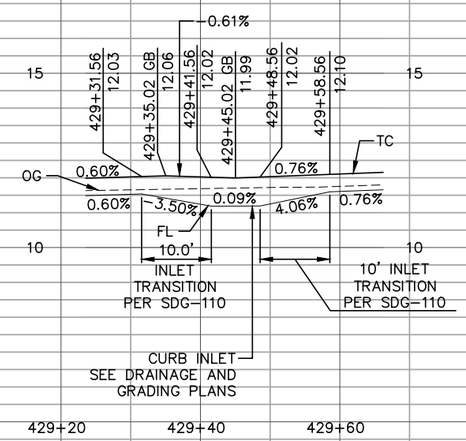


CURB INLET - TYPE B
406+49.00~45.00' RT



CURB INLET - TYPE B
411+48.78~46.33' LT



CURB INLET - TYPE B
429+44.09~28.53' LT

PROFILE
HORIZONTAL: 1"=10'
VERTICAL: 1"=2'

10 0 10 20 FEET
1"=10'

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0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	J. LAHAYE	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

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PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 83 OF 107 SHEETS

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

41370- 83 **-D**

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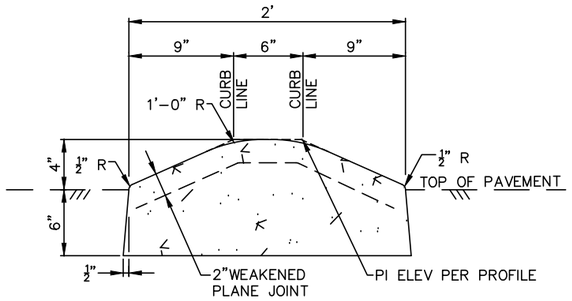
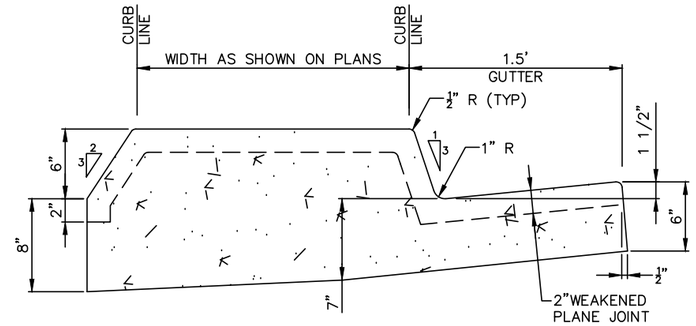
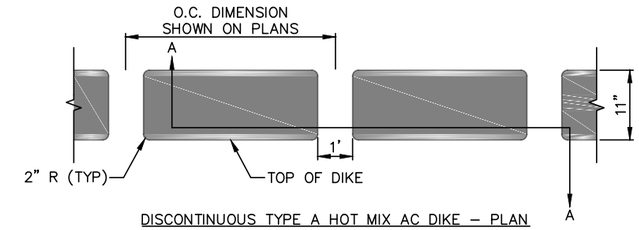
5/5/2019 3:22:49 PM



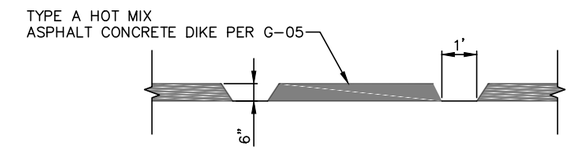
CONCRETE MOUNTABLE RAISED MEDIAN
2"=1'



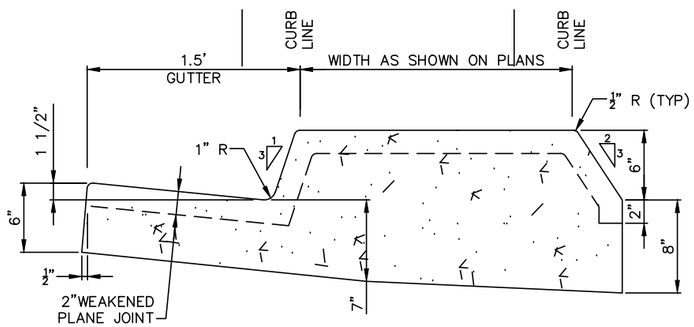
MONOLITHIC MEDIAN (TYPE B-RT)
2"=1'



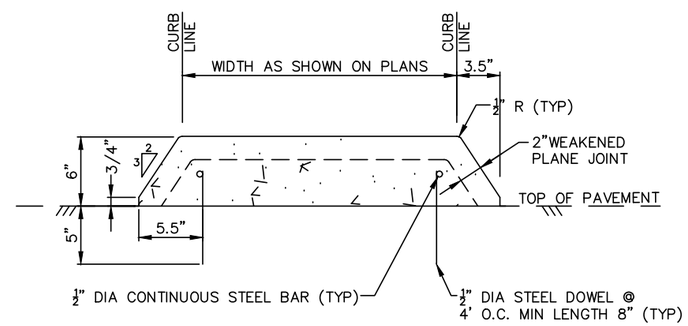
DISCONTINUOUS TYPE A HOT MIX AC DIKE – PLAN
1"=2'



DISCONTINUOUS TYPE A HOT MIX AC DIKE – SECTION A-A
1"=2'



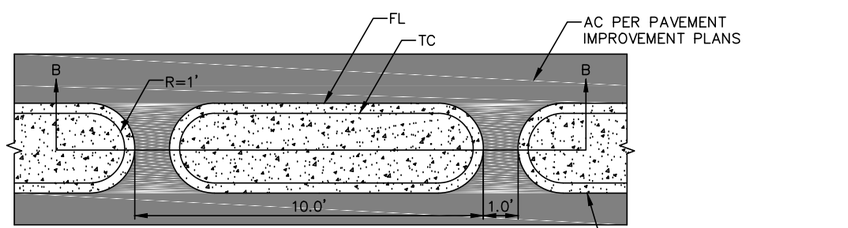
MONOLITHIC MEDIAN (TYPE B-LT)
2"=1'



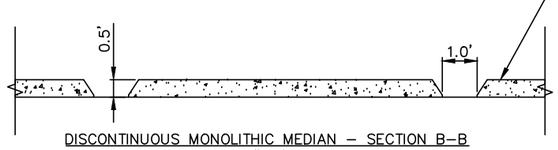
MONOLITHIC MEDIAN (TYPE A)
2"=1'

NOTE:

1) CONCRETE SHALL BE 520-C-2500.
2) SEE JOINT DETAIL DRAWING SDG-109 AND G-10.
3) ON THE SIDE OF SUPER ELEVATED CURVES THE GUTTER SHALL BE SLOPED TO MATCH CROSS SECTION GRADE OF THE ROADWAY.
4) PLACE EXPANSION JOINTS AT CURB RETURNS ADJACENT TO STRUCTURES AND AT NO GREATER THAN 45' INTERVALS.
5) PLACE WEAKED PLANE JOINTS AT DRIVEWAYS AND AT 15' INTERVALS FROM POINT OF CURB RETURN.
6) ALL HISTORICAL STAMPS/IMPRESSIONS SHALL BE PRESERVED PER SDG-115.



DISCONTINUOUS MONOLITHIC MEDIAN – PLAN
1"=2'



DISCONTINUOUS MONOLITHIC MEDIAN – SECTION B-B
1"=2'

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PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 84 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- 84 **-D**

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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

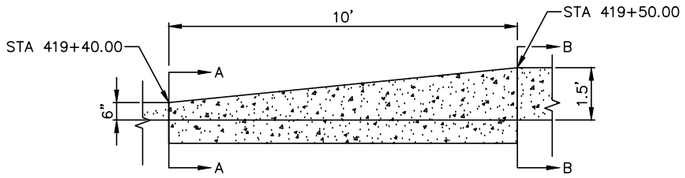
DESIGNED BY	A. RIVERA	DATE 5/19
DRAWN BY	A. DODGE	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

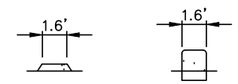
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

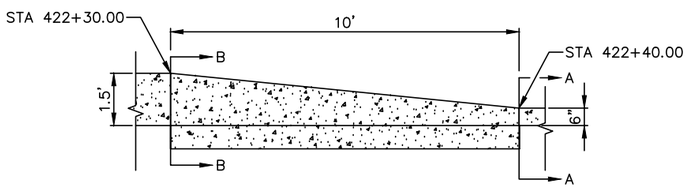
5/5/2019 3:23:53 PM



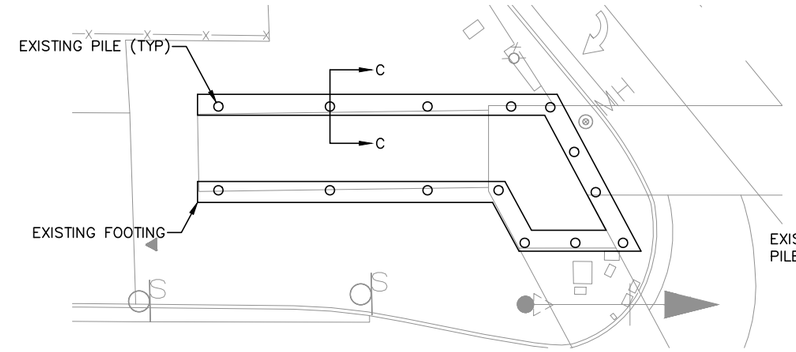
MEDIAN TRANSITION – NORTH OF CHOLLAS CREEK BRIDGE
1"=5'



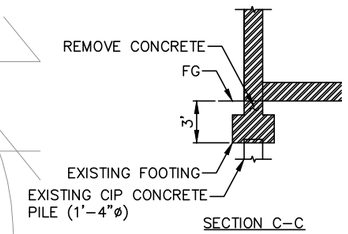
SECTION A–A SECTION B–B



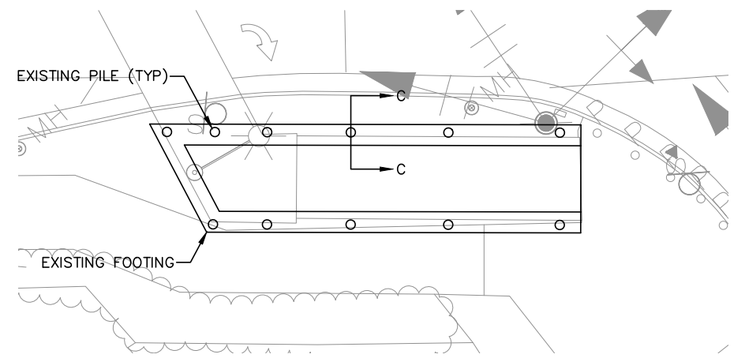
MEDIAN TRANSITION – SOUTH OF CHOLLAS CREEK BRIDGE
1"=5'



HARBOR DRIVE/32ND STREET PEDESTRIAN BRIDGE REMOVAL – WEST APPROACH
1"=10'



SECTION C–C

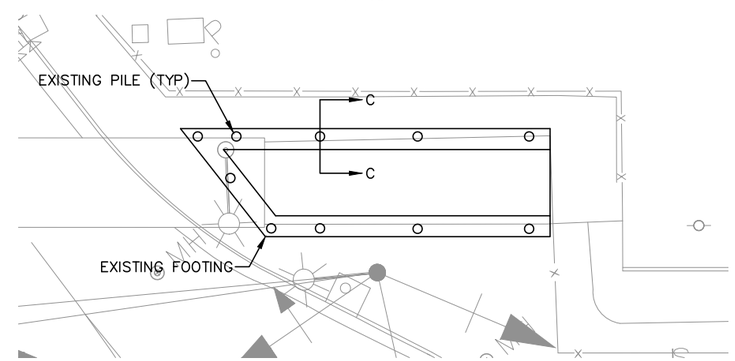


HARBOR DRIVE/32ND STREET PEDESTRIAN BRIDGE REMOVAL – SOUTH APPROACH
1"=10'

NOTE:

1) REMOVE ALL EXISTING CONCRETE AND REINFORCEMENT TO 3' BELOW FINISH GRADE.

2) ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE PROTECTED IN PLACE.



HARBOR DRIVE/32ND STREET PEDESTRIAN BRIDGE REMOVAL – EAST APPROACH
1"=10'

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PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 85 OF 107 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834–6287
NAD83 COORDINATES
XXX–XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

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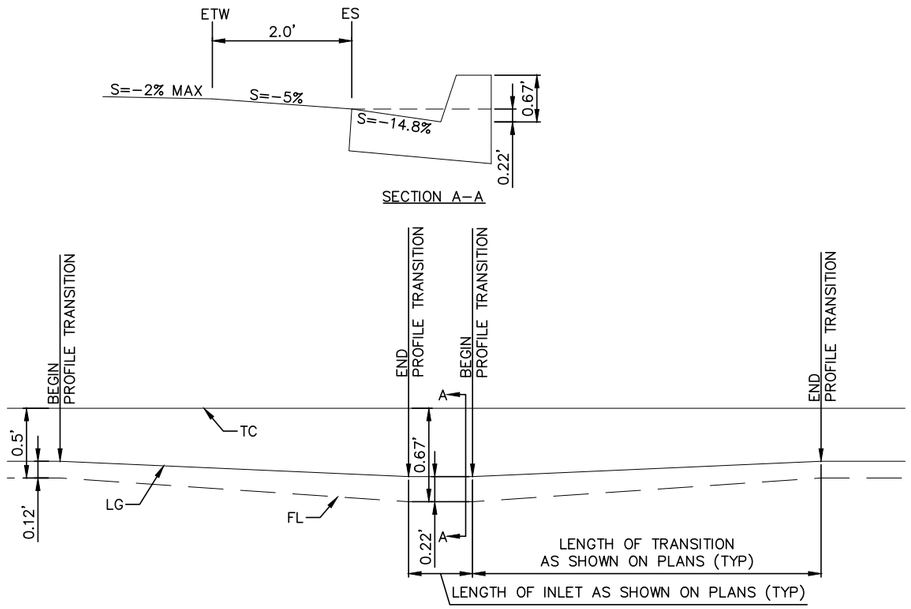
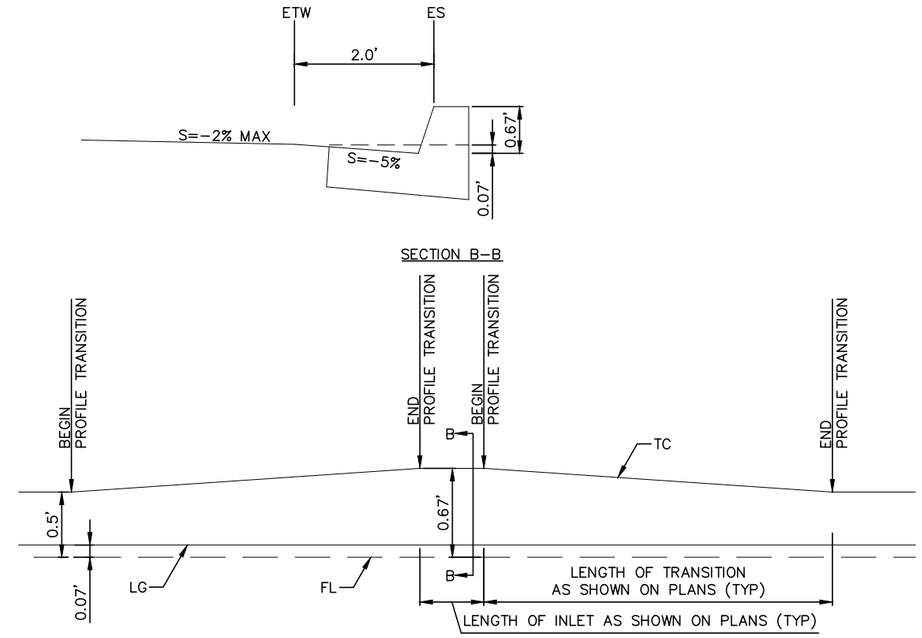
DRAWING NO. –
SHEET NO.

5/5/2019 3:24:44 PM

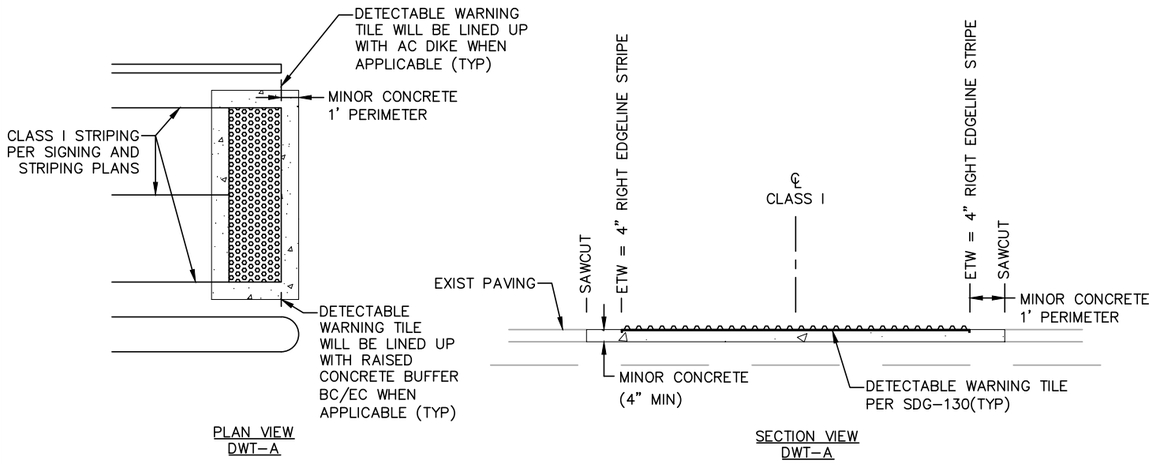
NOT FOR CONSTRUCTION – MAY 6, 2019



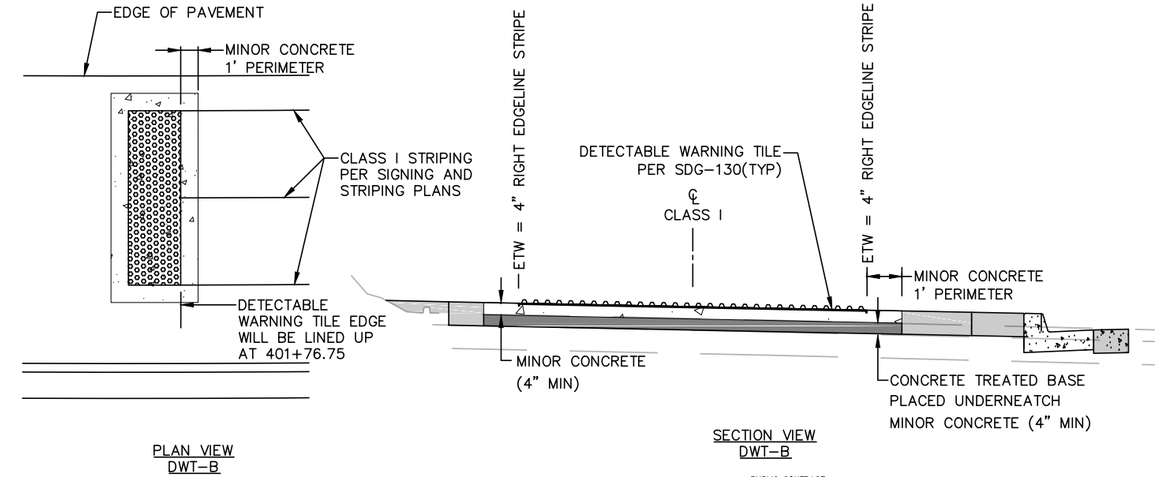
INLET TRANSITION PROFILE (TYPE A)
HORIZONTAL: 1"=2'
VERTICAL: 1"=0.5'



INLET TRANSITION PROFILE (TYPE B)
HORIZONTAL: 1"=2'
VERTICAL: 1"=0.5'



DETECTABLE WARNING TILE
PLACEMENT DWT-A
N.T.S.



DETECTABLE WARNING TILE
PLACEMENT DWT-B
N.T.S.

PUBLIC CONTRACT

CONSTRUCTION DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

811 Know what's below. Call before you dig.

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 86 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 86 **-D**

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY J. LAHAYE	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

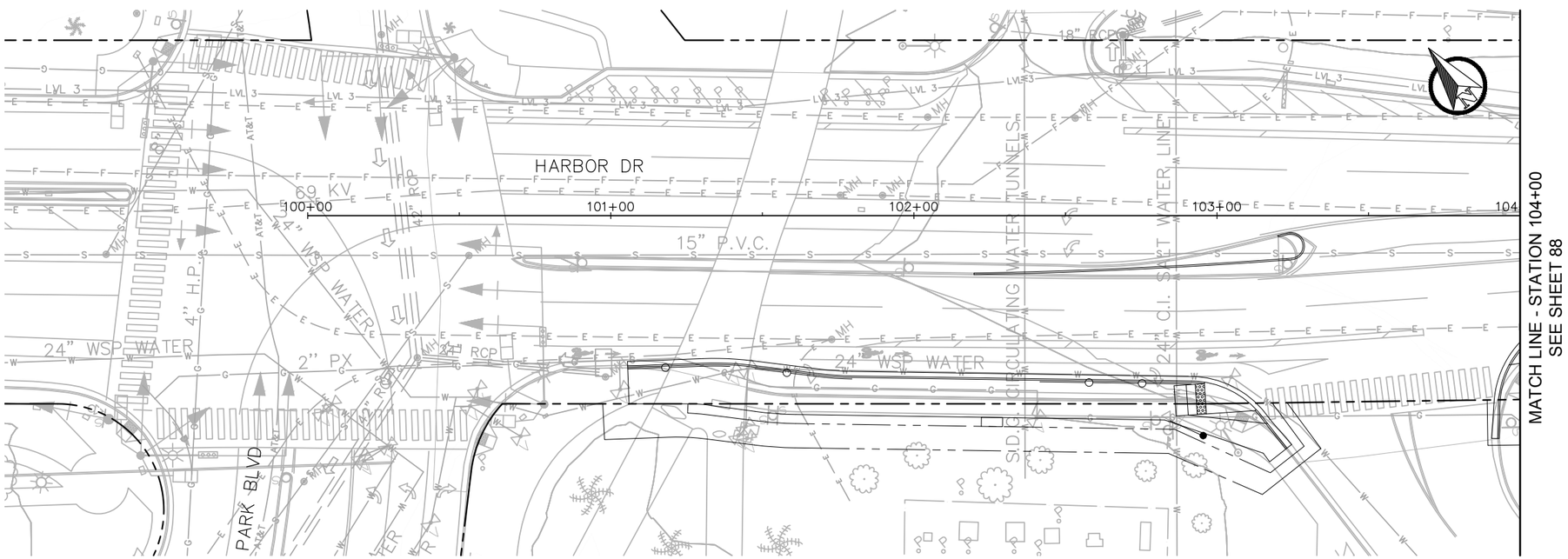
SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/5/2019 3:25:22 PM

NOT FOR CONSTRUCTION – MAY 6, 2019

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

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PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 87 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- 87 **-D**

0 1/2 1
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La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

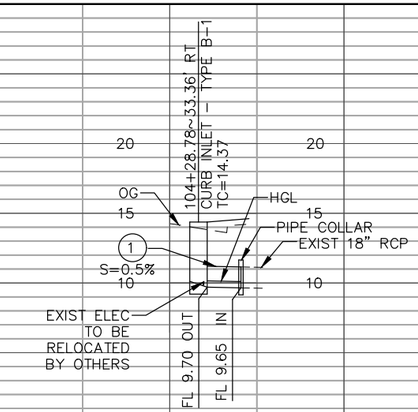
		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

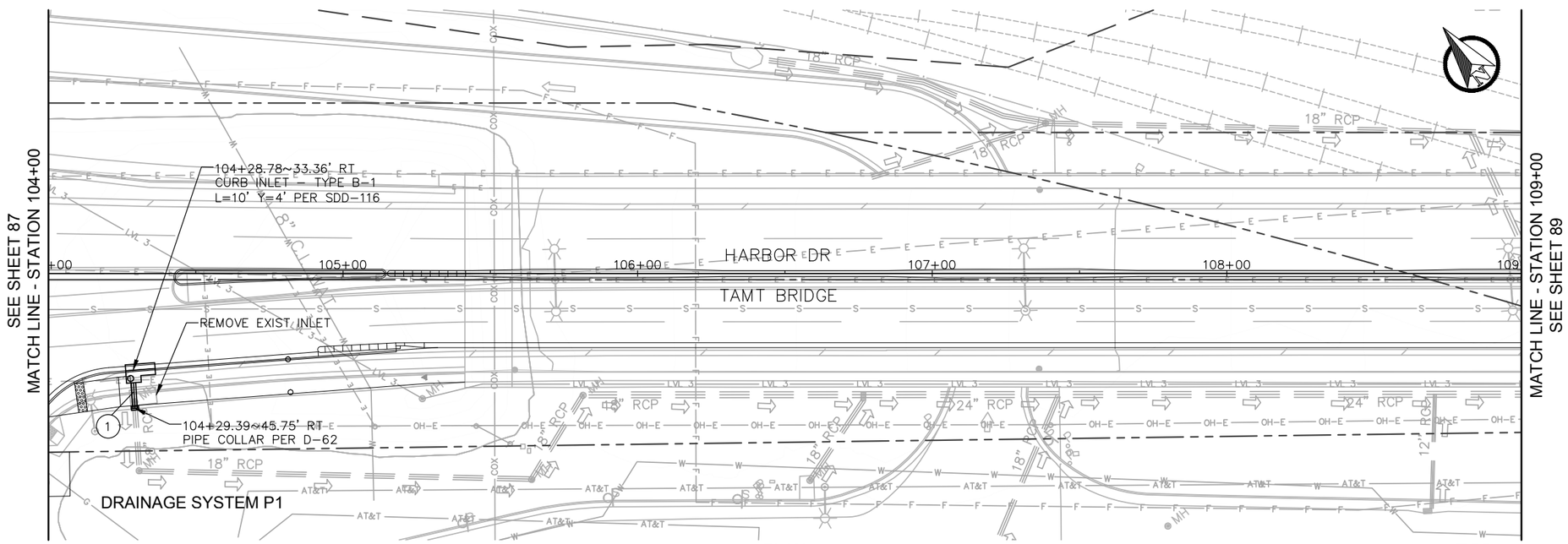
5/4/2019 9:01:24 PM

NOT FOR CONSTRUCTION – MAY 6, 2019



DRAINAGE SYSTEM P1

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
1	9.68'	18" RCP (950-D)	2.5	3.8

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 88 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

41370- 88 **-D**

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

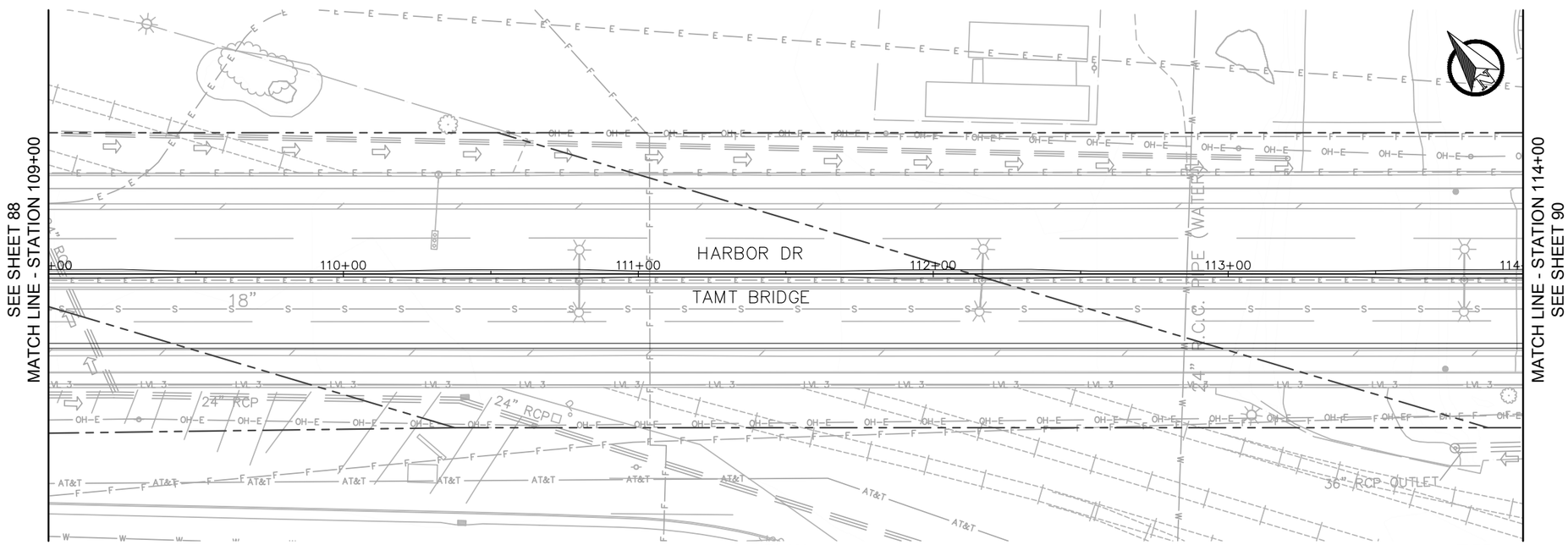
SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/4/2019 9:05:17 PM

NOT FOR CONSTRUCTION – MAY 6, 2019

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

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0 1/2 1
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No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY J. LAHAYE	DATE 5/19	
DRAWN BY D. LOPEZ	5/19	
CHECKED BY A. RIVERA	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 89 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

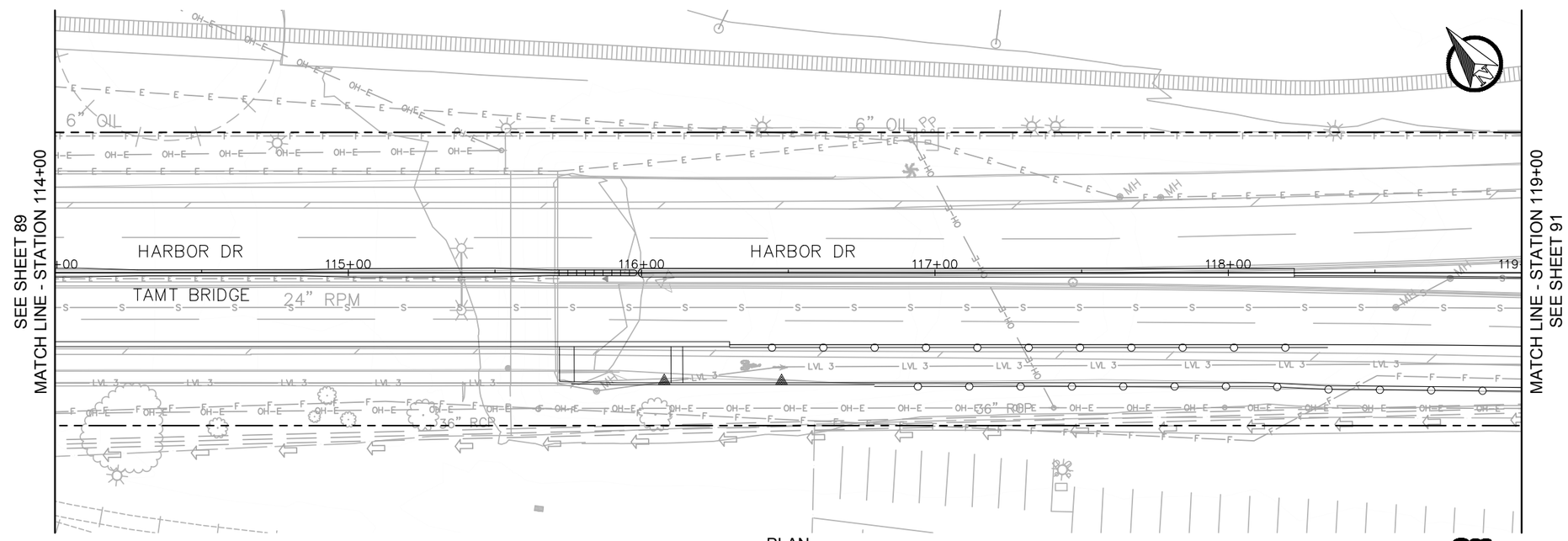
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 89 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/4/2019 8:09:09 PM

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

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0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY J. LAHAYE	DATE 5/19	
DRAWN BY D. LOPEZ	5/19	
CHECKED BY A. RIVERA	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 90 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

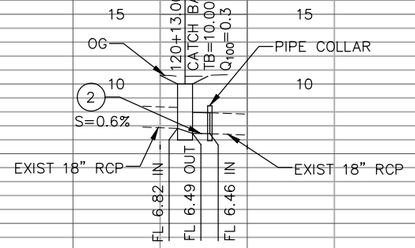
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

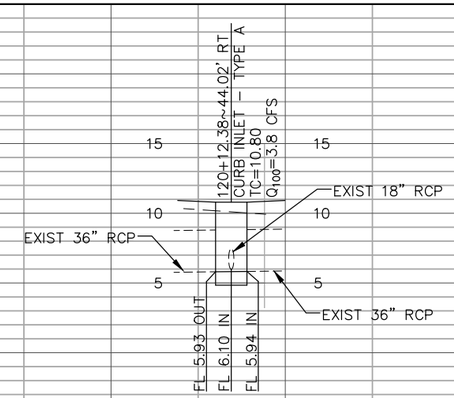
41370- 90 **-D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/4/2019 9:11:34 PM

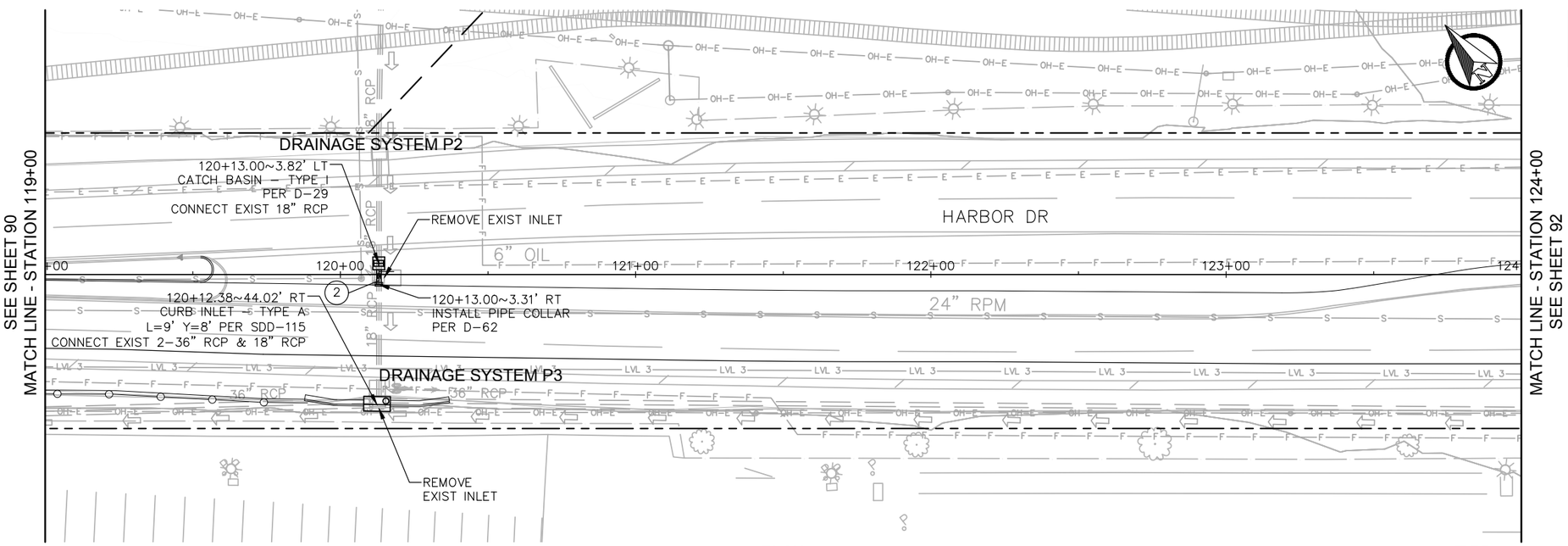


DRAINAGE SYSTEM P2



DRAINAGE SYSTEM P3

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
2	4.97'	18" RCP (950-D)	**	**

** UPSTREAM FLOW INFORMATION NOT KNOWN

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 91 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 91 **-D**

0 1/2 1
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ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY J. LAHAYE	DATE 5/19	
DRAWN BY D. LOPEZ	5/19	
CHECKED BY A. RIVERA	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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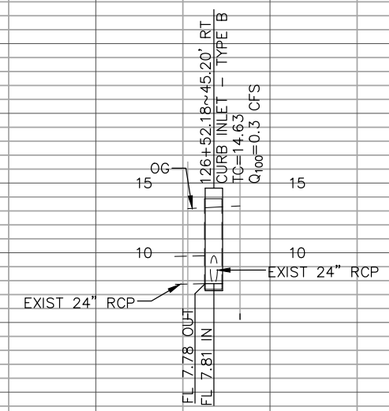
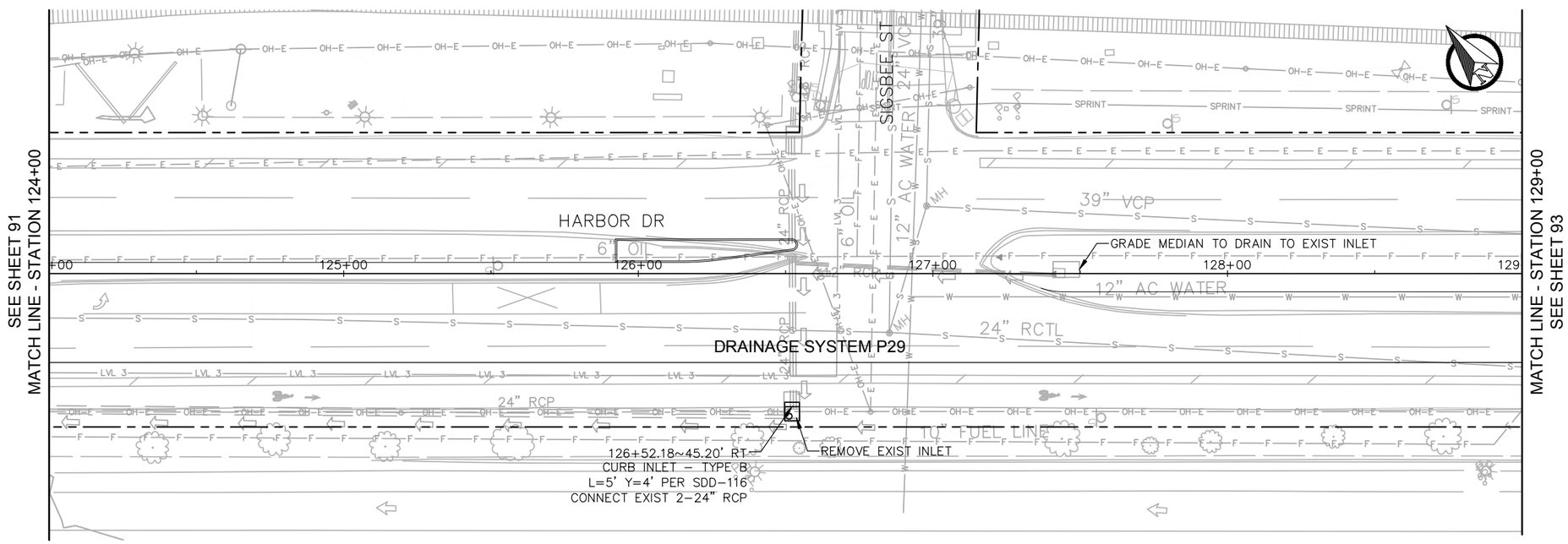


DRAINAGE SYSTEM P29

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 92 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 92-D

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/4/2019 9:19:20 PM

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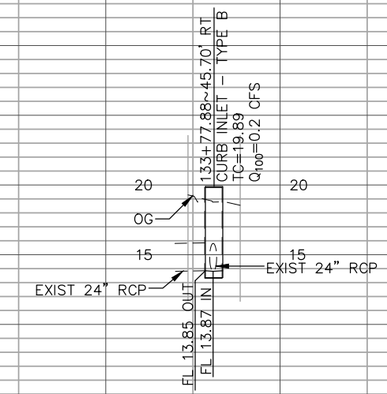
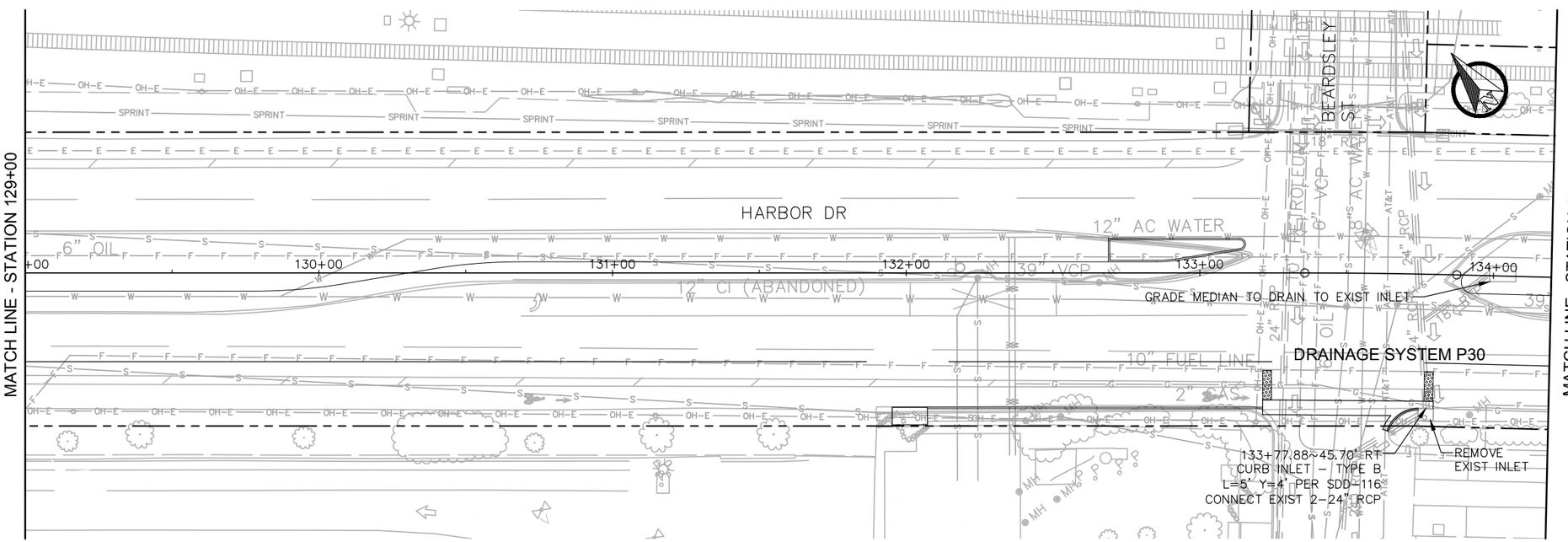


DRAINAGE SYSTEM P30

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 93 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 93-D

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REGISTERED PROFESSIONAL ENGINEER
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No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

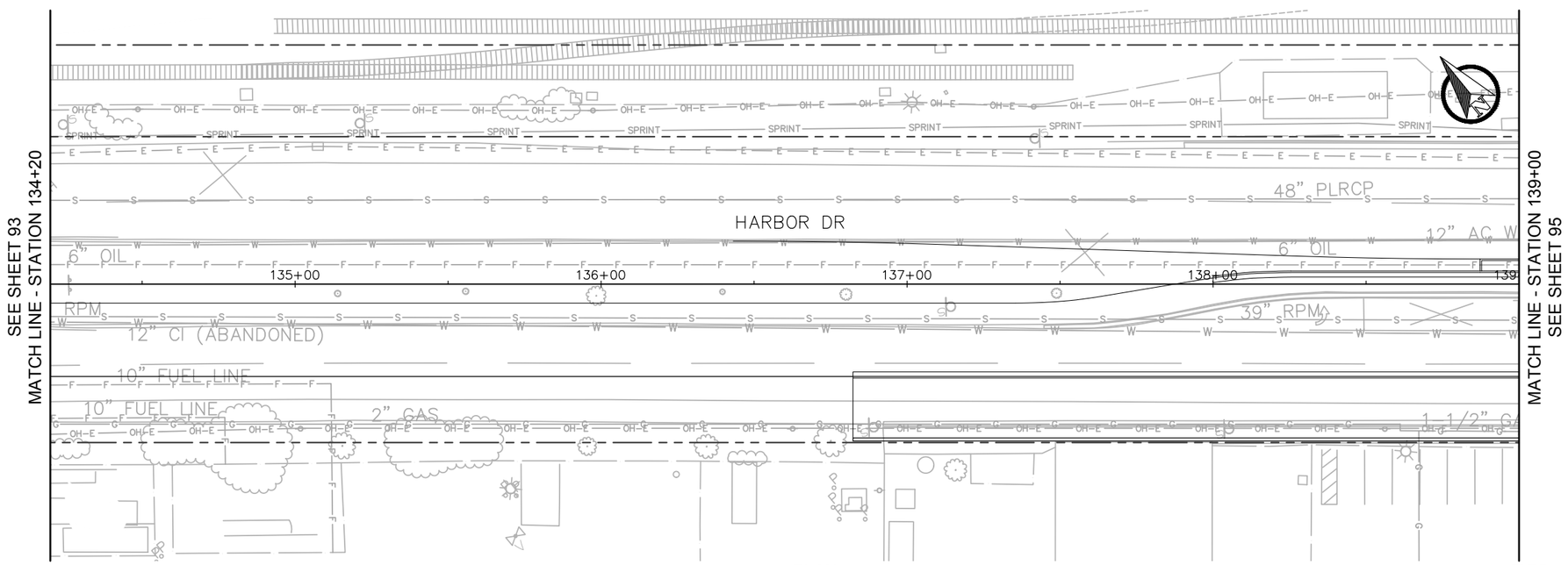
SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/4/2019 9:23:08 PM

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

0 1/2 1
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DRAWN BY D. LOPEZ	5/19	
CHECKED BY A. RIVERA	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 94 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

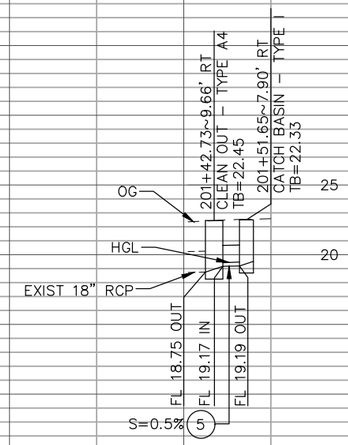
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 94-D

NOT FOR CONSTRUCTION – MAY 6, 2019

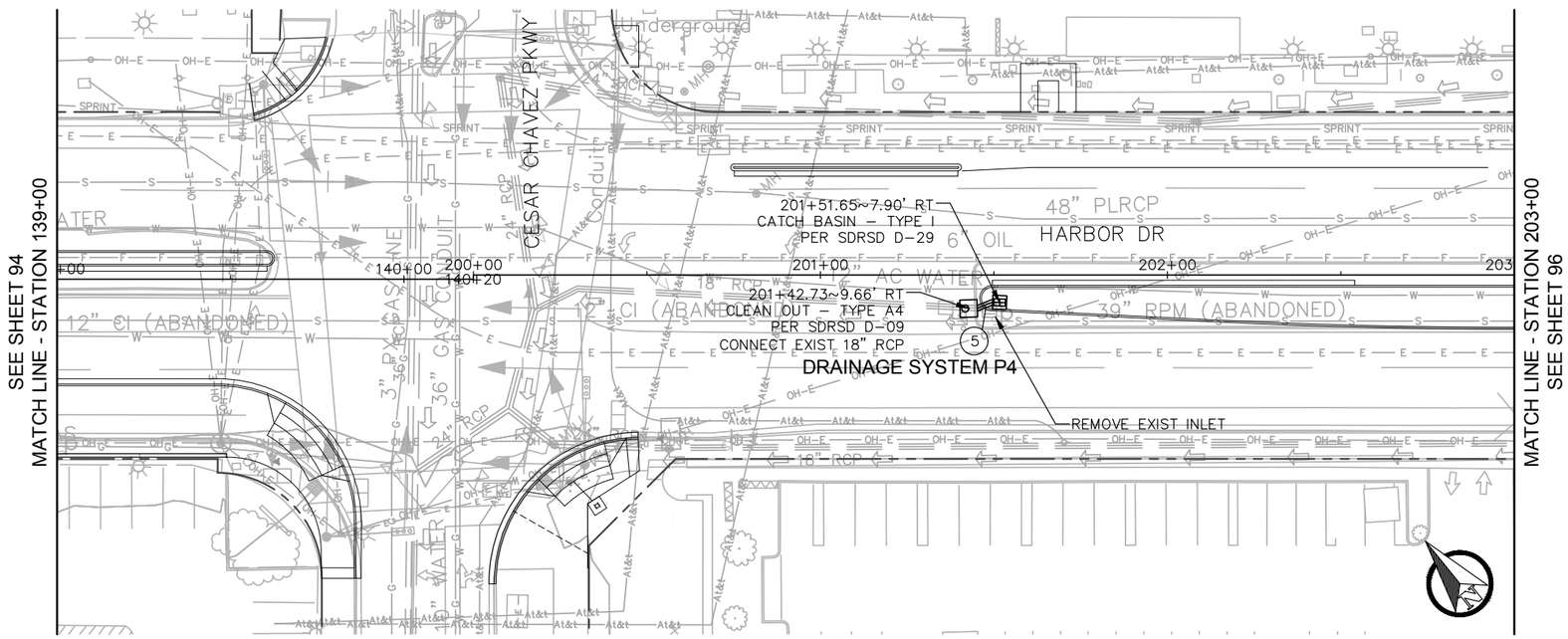
5/4/2019 9:25:34 PM



DRAINAGE SYSTEM P4

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
5	4.77'	18" RCP (1600-D)	0.5	2.4



PLAN

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 95 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

41370- 95-D

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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Exp. 12/31/19
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STATE OF CALIFORNIA

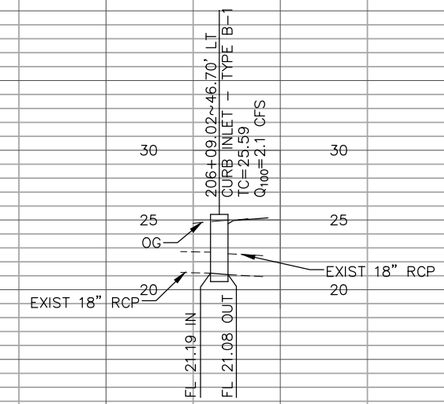
		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

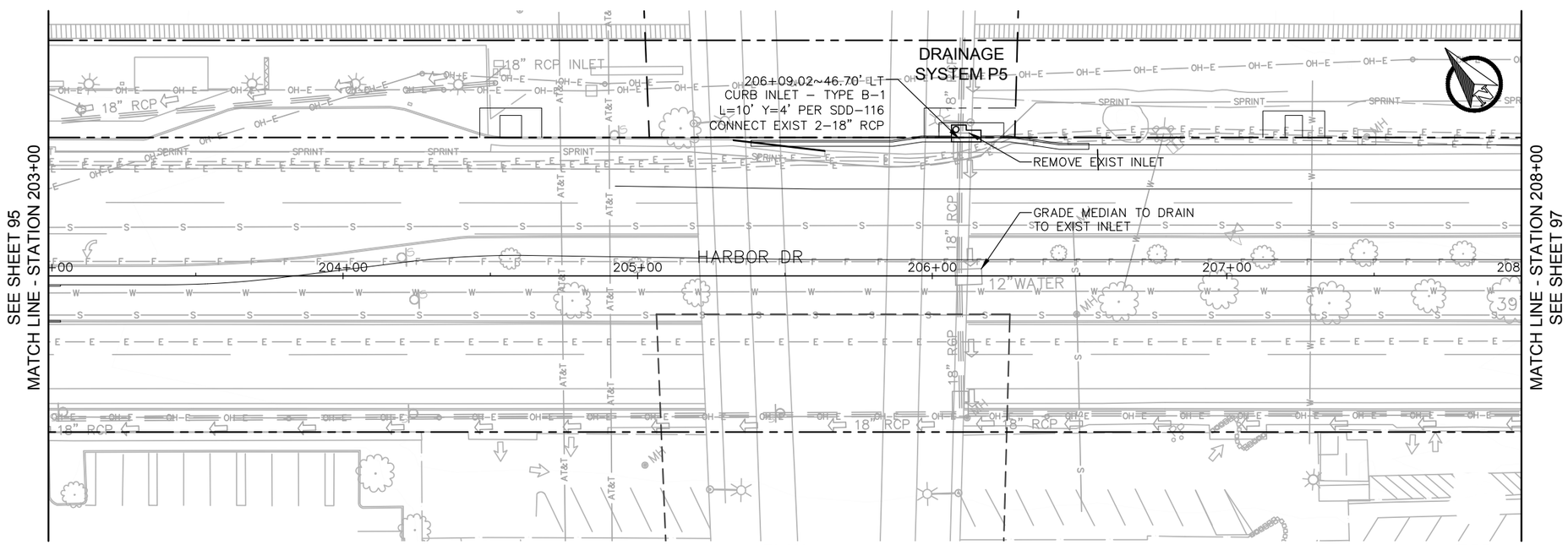
NOT FOR CONSTRUCTION – MAY 6, 2019

5/4/2019 9:29:26 PM



DRAINAGE SYSTEM P5

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 96 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834–6287
NAD83 COORDINATES

XXX–XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- 96 -D

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

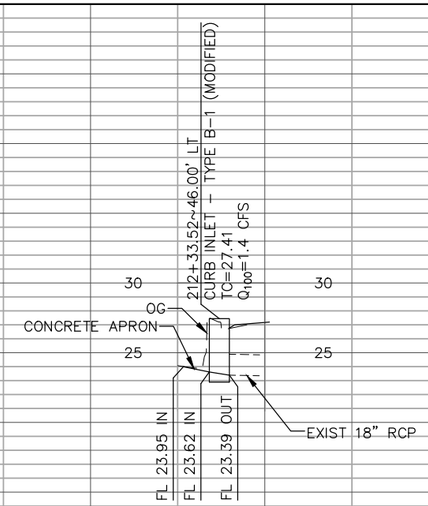
		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

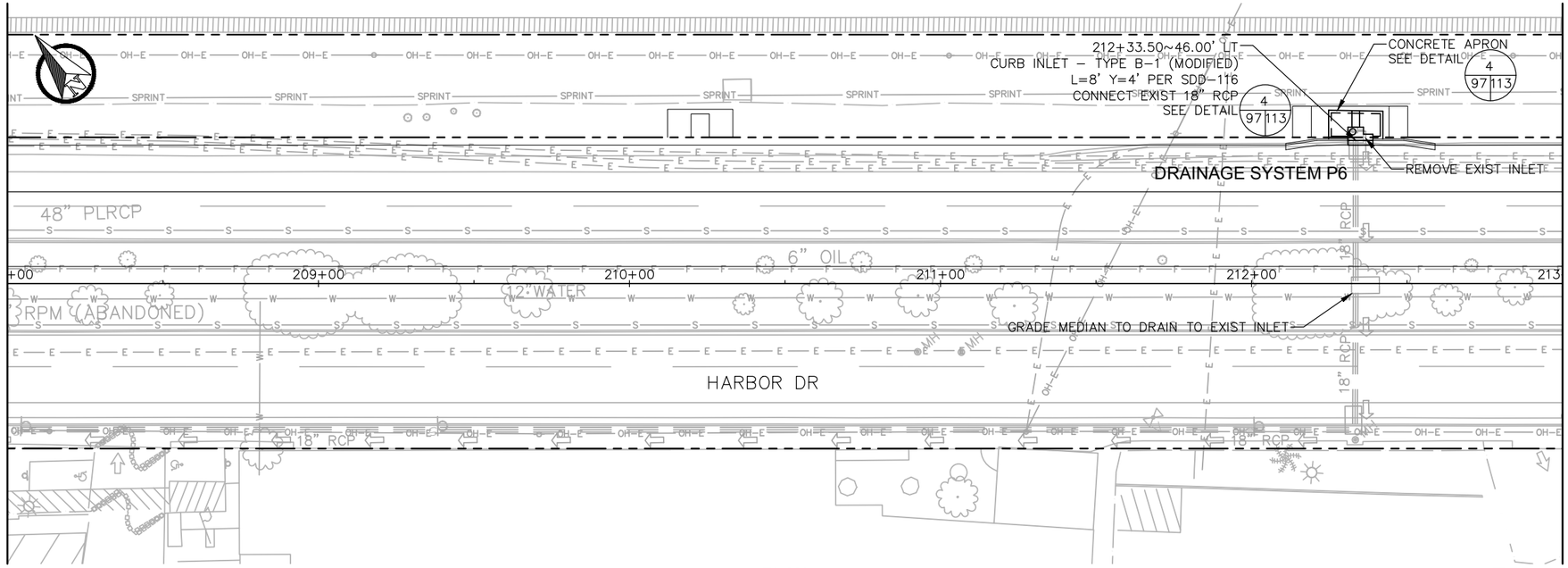
5/4/2019 9:33:24 PM

NOT FOR CONSTRUCTION – MAY 6, 2019



DRAINAGE SYSTEM P6

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 97 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370- 97-**D**

0 1/2 1
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CIVIL
STATE OF CALIFORNIA

DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

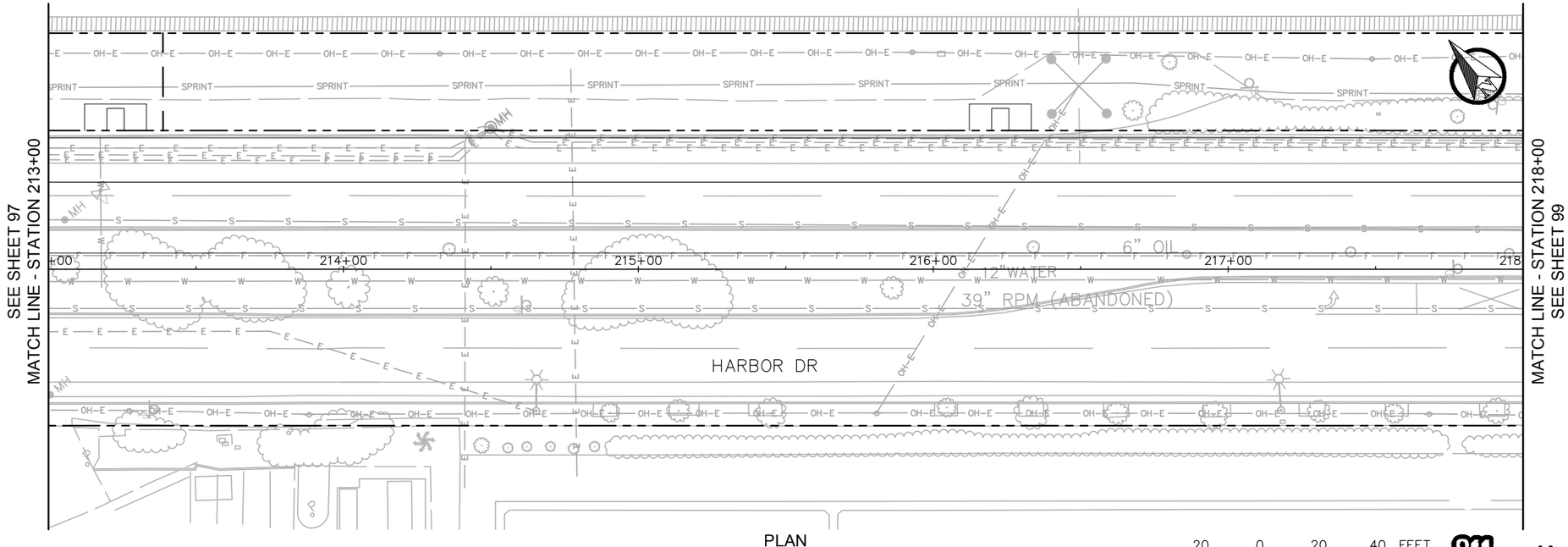
SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/4/2019 9:37:14 PM

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 98 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
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CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 98 **-D**

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ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/4/2019 9:39:39 PM

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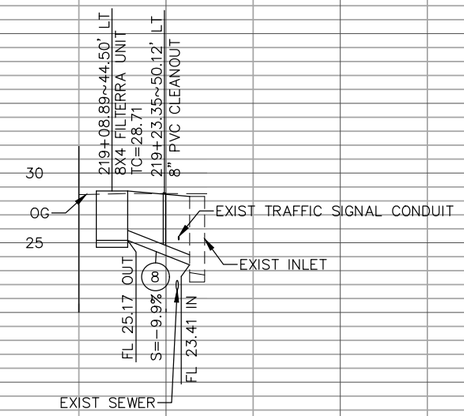
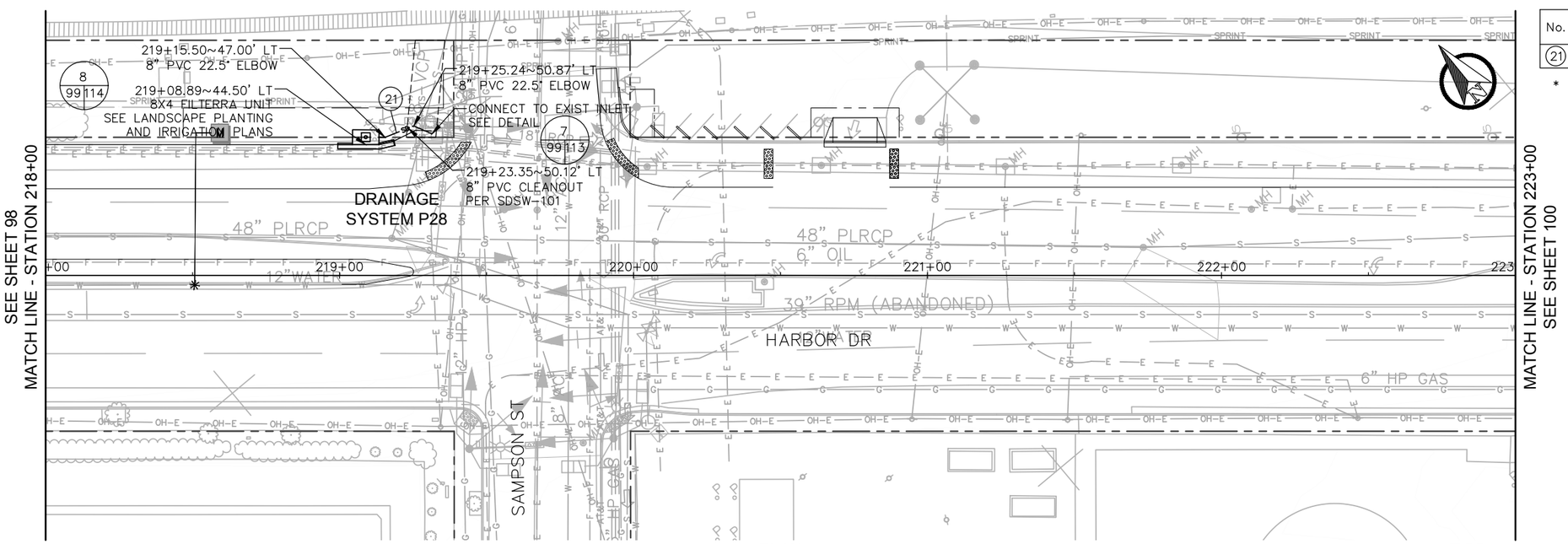


DRAINAGE SYSTEM P28

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
21	19.33'	8" PVC (SCH 40)	*	*

* DEPENDENT ON INFILTRATION RATE

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 99 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
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LAMBERT COORDINATES

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INSPECTOR — DATE COMPLETED

41370- 99 -D

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
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CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	J. LAHAYE	5/19
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CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

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SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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5/4/2019 9:43:31 PM

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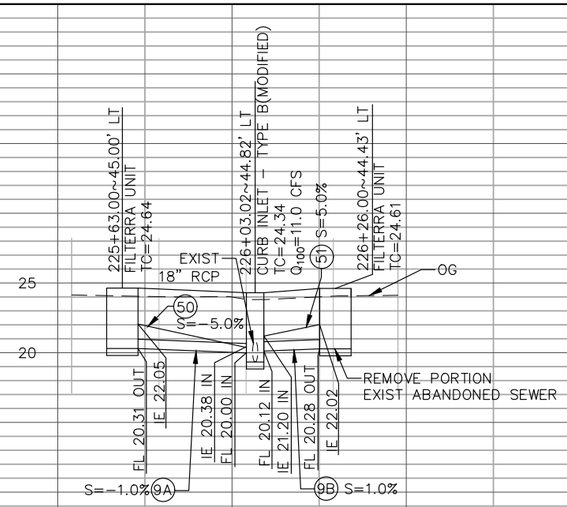
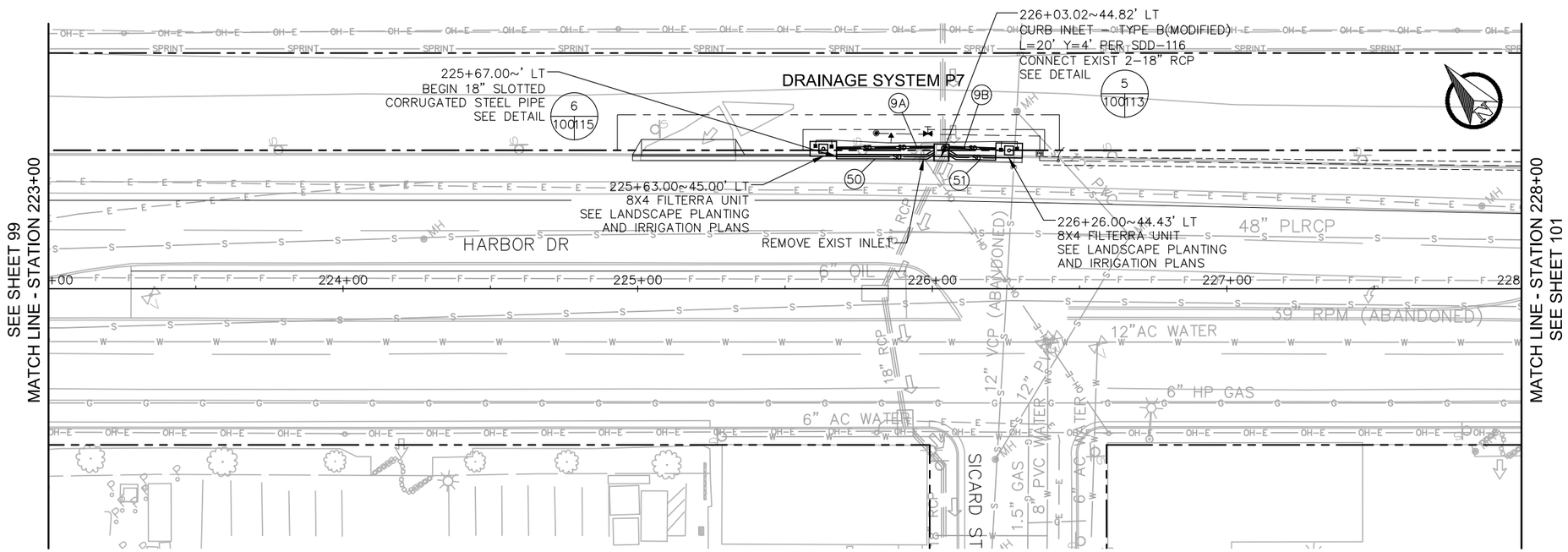


DRAINAGE SYSTEM P7

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
9A	31.00'	8" PVC (SCH 40)	*	*
9B	16.00'	8" PVC (SCH 40)	*	*
50	33.49'	18" SCSP		
51	16.33'	18" SCSP		

* DEPENDENT ON INFILTRATION RATE

20 0 20 40 FEET
1"=20'

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0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 100 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

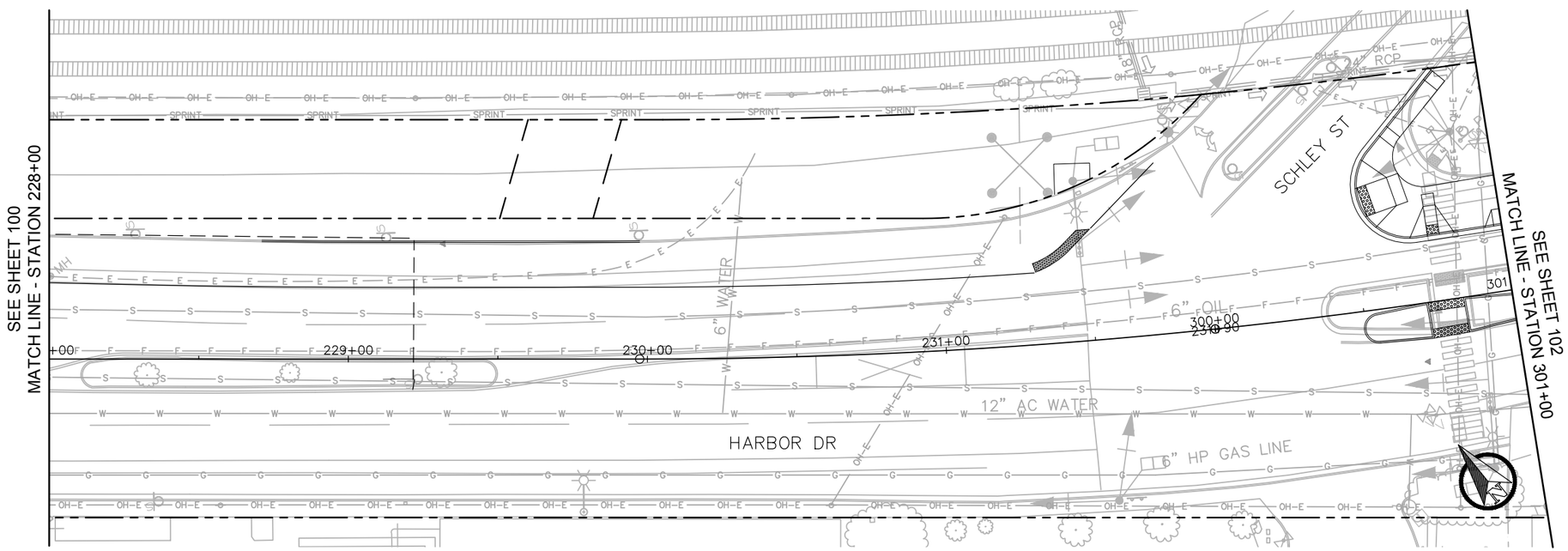
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 100-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 12:32:45 PM

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

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PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 101 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 101-**D**

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CIVIL
STATE OF CALIFORNIA

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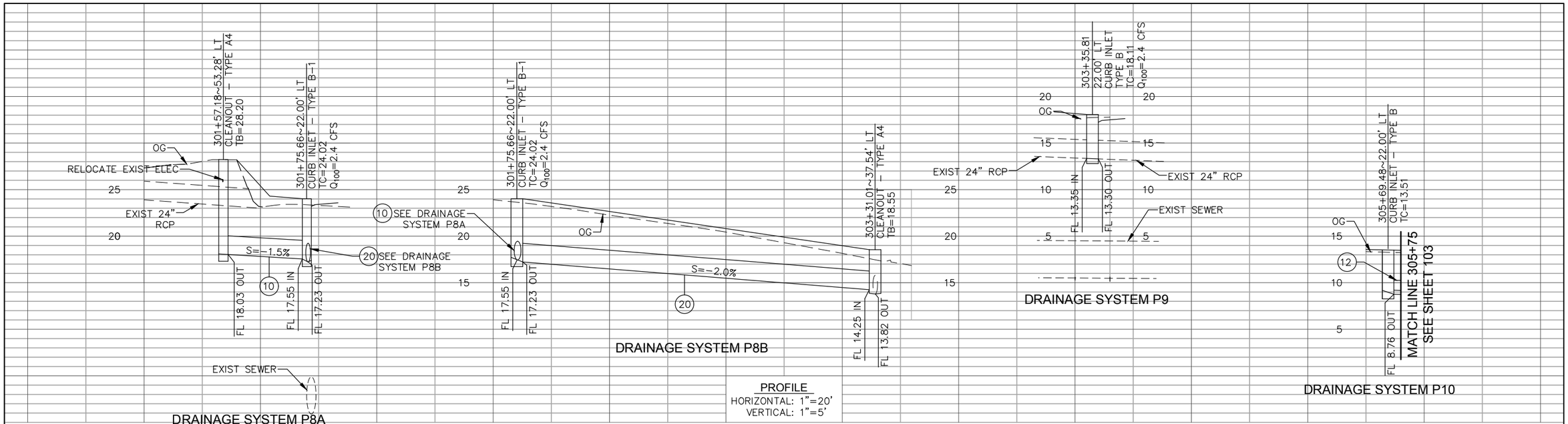
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

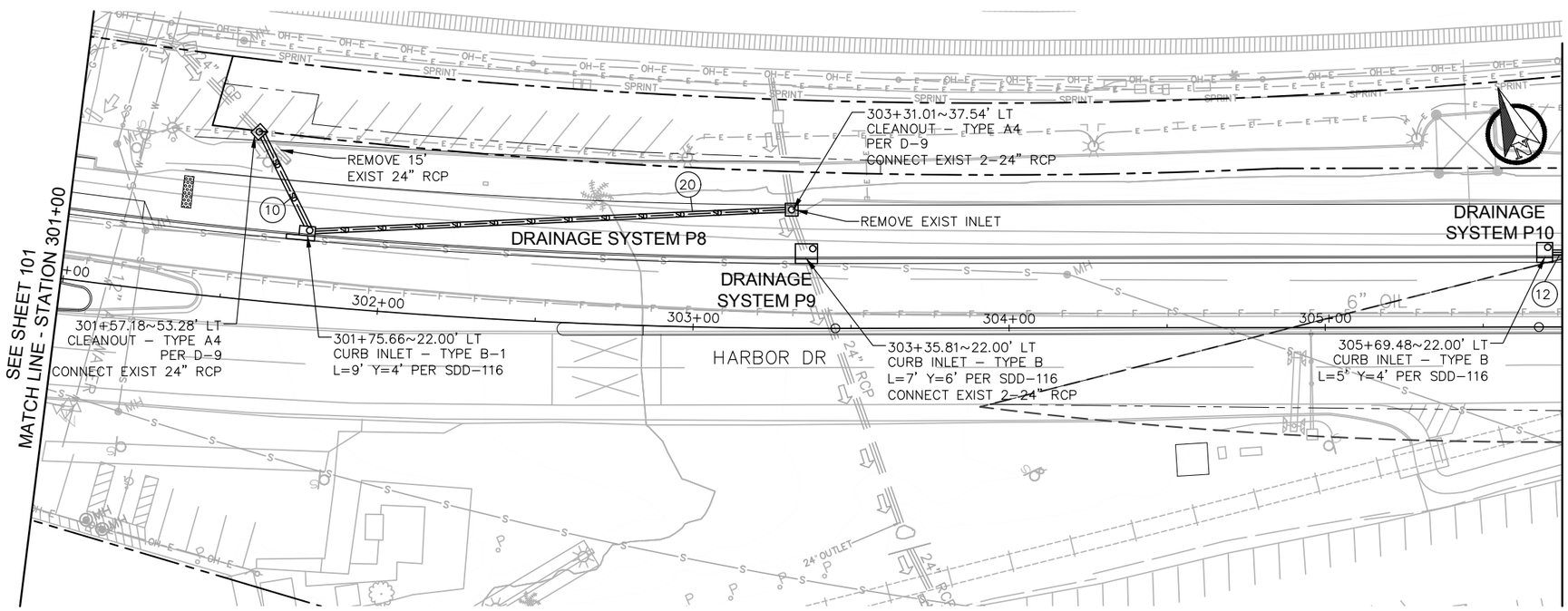
SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/4/2019 9:50:14 PM

NOT FOR CONSTRUCTION – MAY 6, 2019





PLAN

20 0 20 40 FEET
1"=20'

No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
10	31.92'	24" RCP (1000-D)	**	**
20	148.89'	24" RCP (1600-D)	**	**
12	52.74'	18" RCP (900-D)	1.2	4.3

** UPSTREAM FLOW INFORMATION NOT KNOWN

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0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 102 OF 187 SHEETS

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

41370- 102-**D**

NOT FOR CONSTRUCTION – MAY 6, 2019

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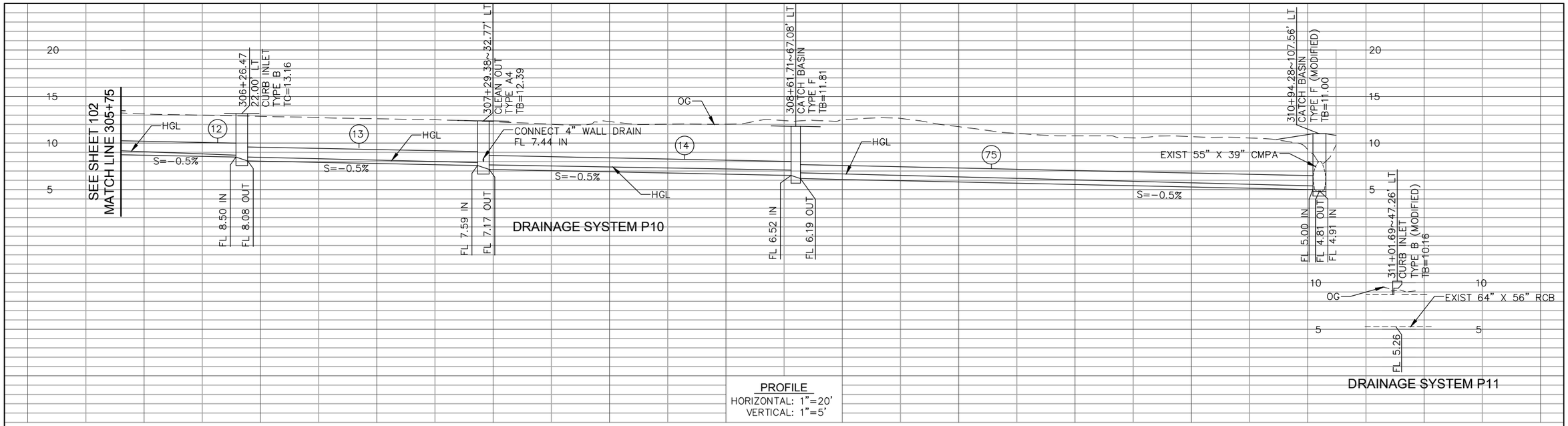

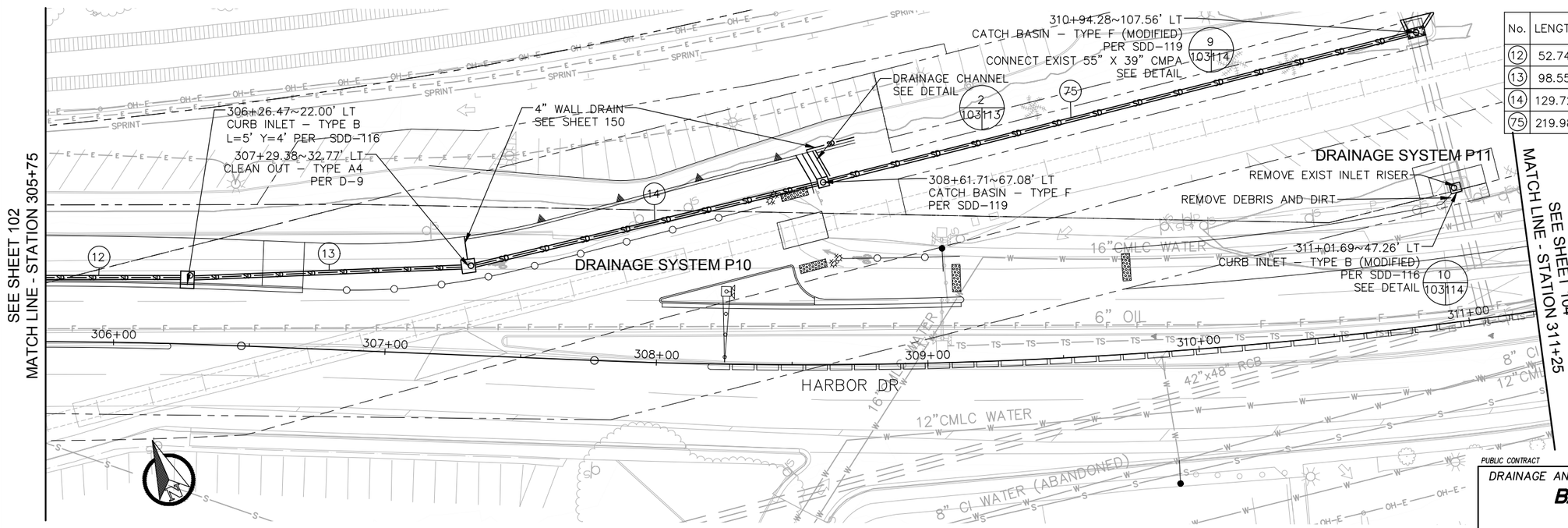

No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
12	52.74'	18" RCP (900-D)	1.2	4.3
13	98.55'	18" RCP (1150-D)	1.5	3.9
14	129.72'	18" RCP (900-D)	1.6	3.9
75	219.98'	18" RCP (850-D)	2.8	4.1

PLAN

20 0 20 40 FEET
1"=20'

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0 1/2 1
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CIVIL
STATE OF CALIFORNIA

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DESIGNED BY	J. LAHAYE	5/19
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SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

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PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 103 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 103-**D**

5/4/2019 9:58:52 PM

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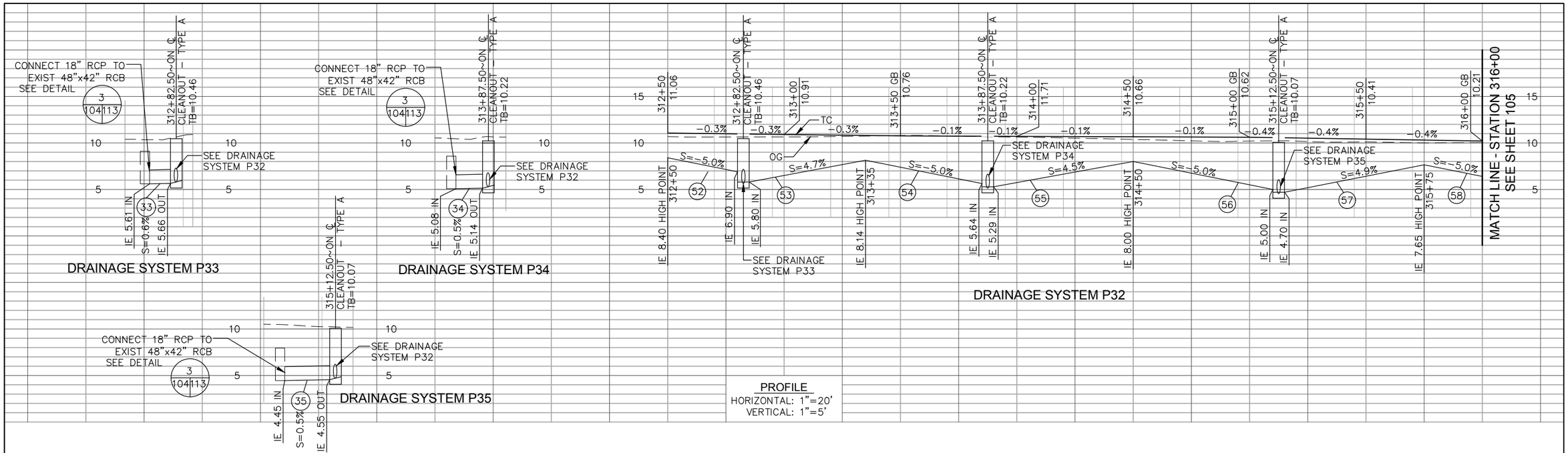

No.	LENGTH	TYPE	Q (CFS)	V (FT/S)
33	8.95'	18" RCP (800-D)		
34	11.46'	18" RCP (800-D)		
35	19.32'	18" RCP (800-D)		
52	30.00'	18" SCSP		
53	50.00'	18" SCSP		
54	50.00'	18" SCSP		
55	60.00'	18" SCSP		
56	60.00'	18" SCSP		
57	60.00'	18" SCSP		
58	60.00'	18" SCSP		

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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No. 87936
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CIVIL
STATE OF CALIFORNIA

DESIGNED BY J. LAHAYE	DATE 5/19	
DRAWN BY D. LOPEZ	5/19	
CHECKED BY A. RIVERA	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
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PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 104 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

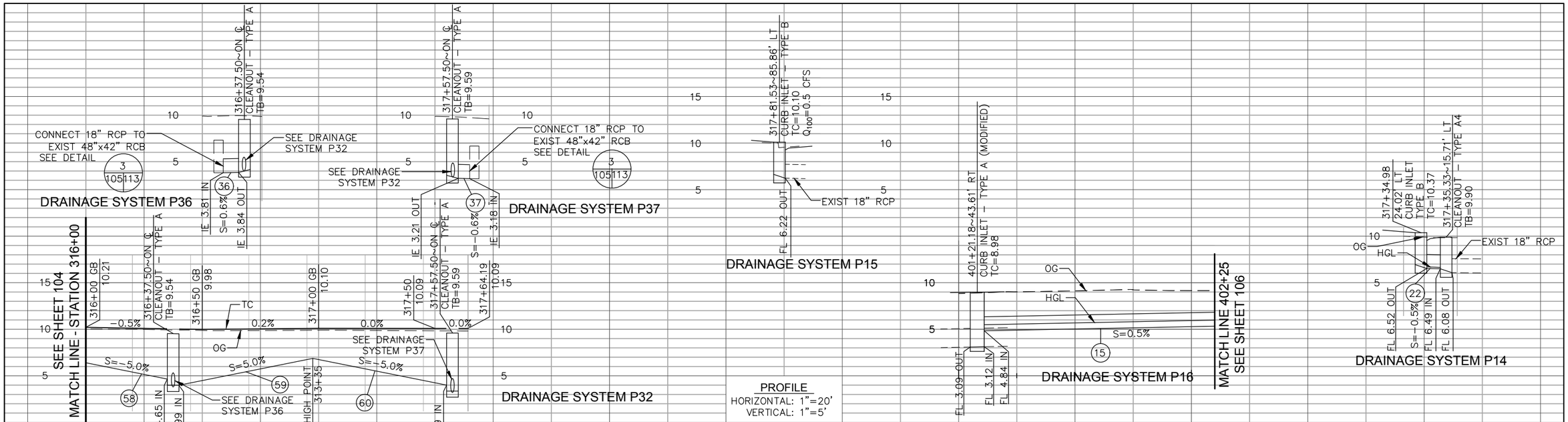
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

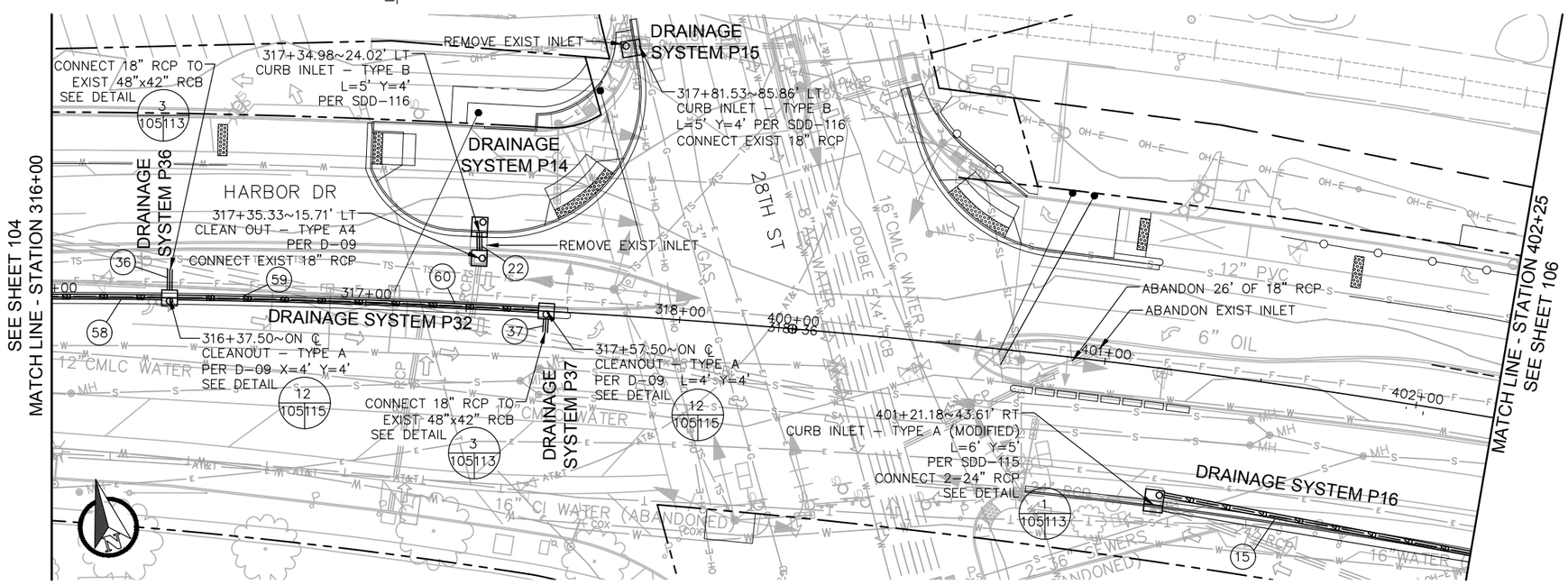
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 104-**D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/4/2019 10:04:40 PM





No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
22	5.80'	18" RCP (1650–D)	0.2	1.9
15	216.44'	18" RCP (1600–D)	2.9	3.9
36	6.61'	18" RCP (800–D)		
37	4.91'	18" RCP (800–D)		
58	60.00'	18" SCSP		
59	57.50'	18" SCSP		
60	57.50'	18" SCSP		

PLAN

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

0 1/2 1
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SANDAG PRJ MGR	E. RODRIGUEZ	5/19

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PUBLIC CONTRACT

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CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 105 OF 187 SHEETS

PROJECT NO.
V.T.M.

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DESCRIPTION	BY	APPROVED	DATE	FILMED
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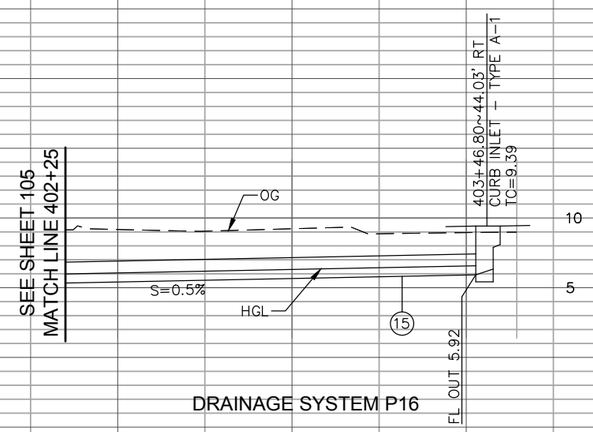
XXX-XXXX
LAMBERT COORDINATES

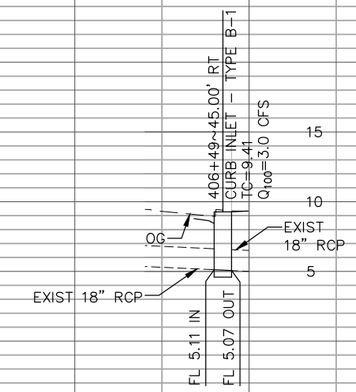
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370-105-D

NOT FOR CONSTRUCTION – MAY 6, 2019

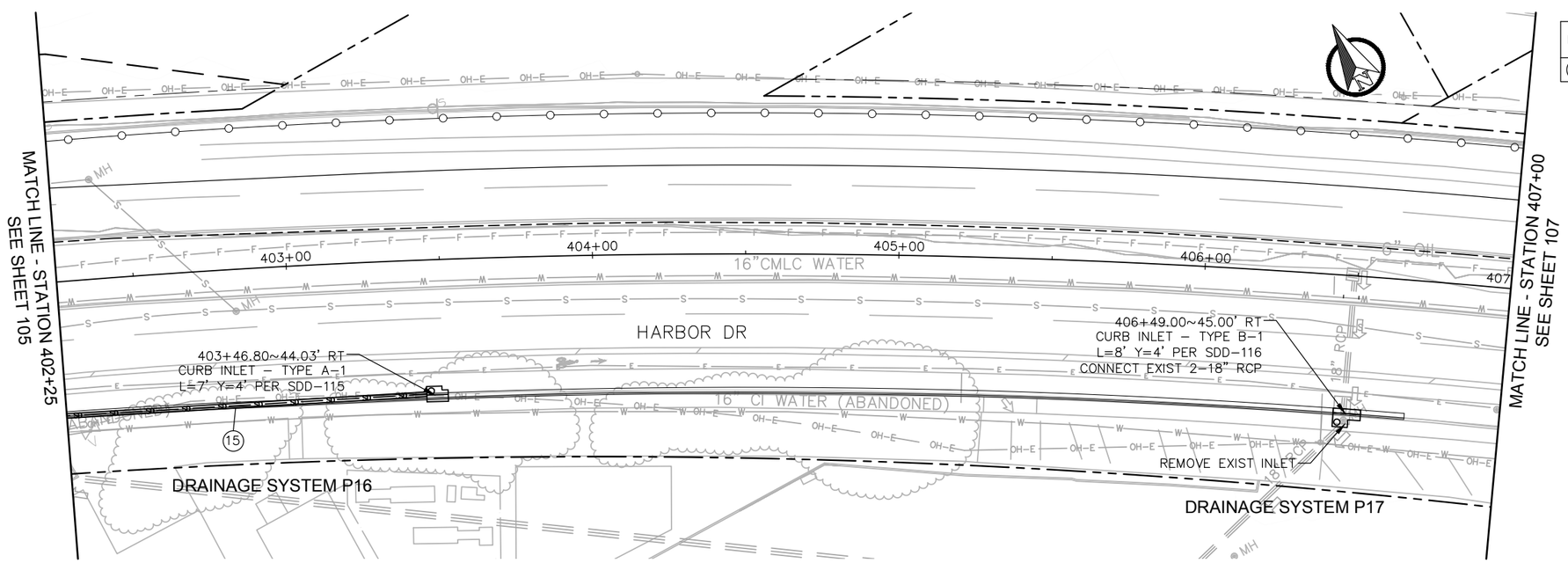
5/4/2019 10:09:01 PM





PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
15	216.44'	18" RCP (CLASS 1600–D)	2.9	3.9



PLAN

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 106 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

1834–6287
NAD83 COORDINATES
XXX–XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 106-**D**

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

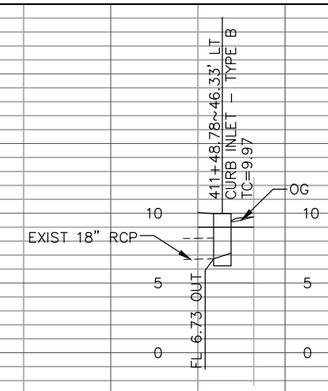
		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

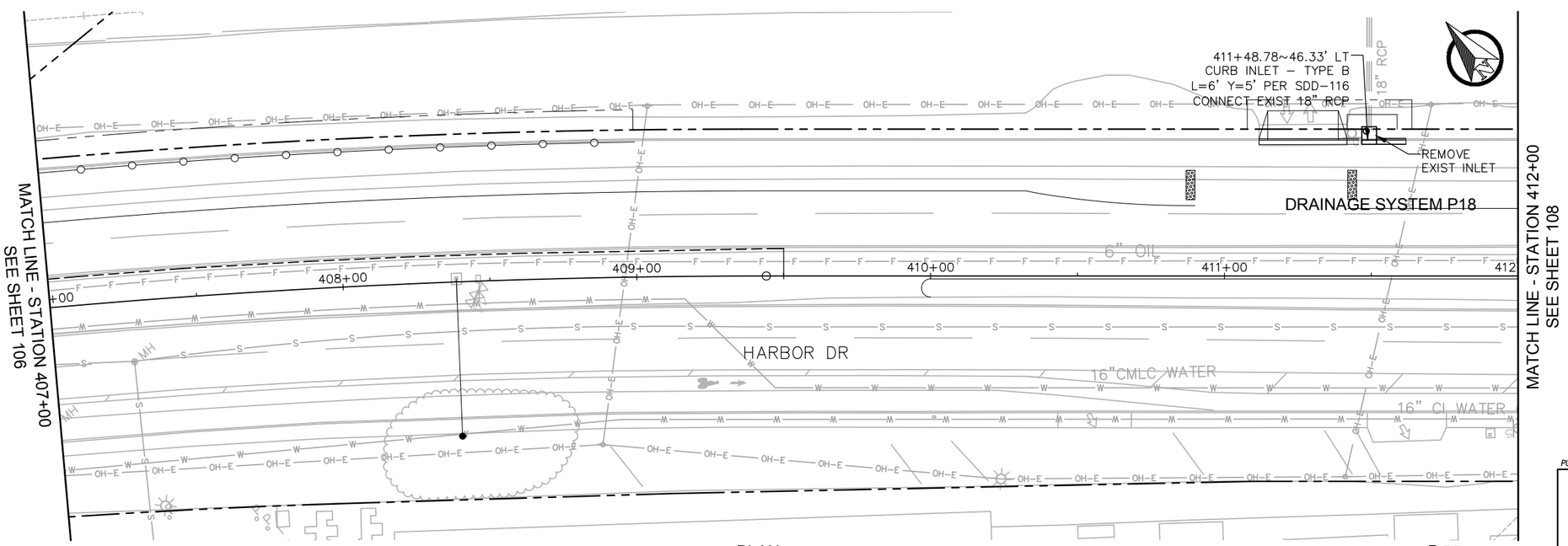
5/4/2019 10:13:18 PM

NOT FOR CONSTRUCTION – MAY 6, 2019



DRAINAGE SYSTEM P18

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 107 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-107-**D**

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

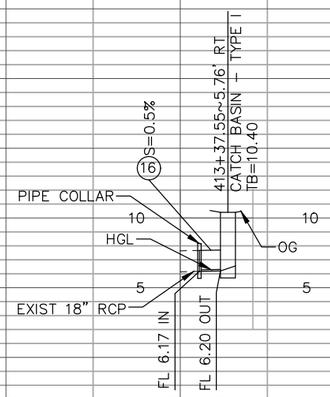
		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

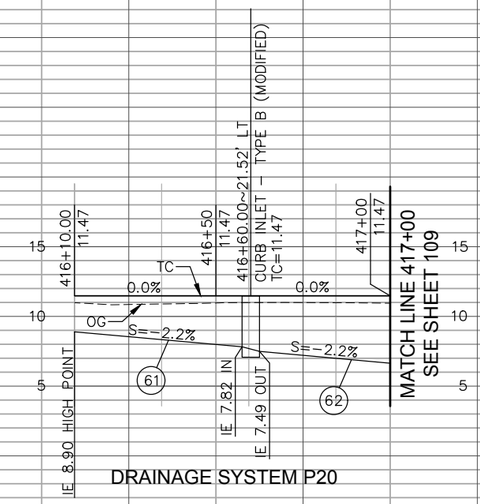
NOT FOR CONSTRUCTION – MAY 6, 2019

5/4/2019 10:17:09 PM

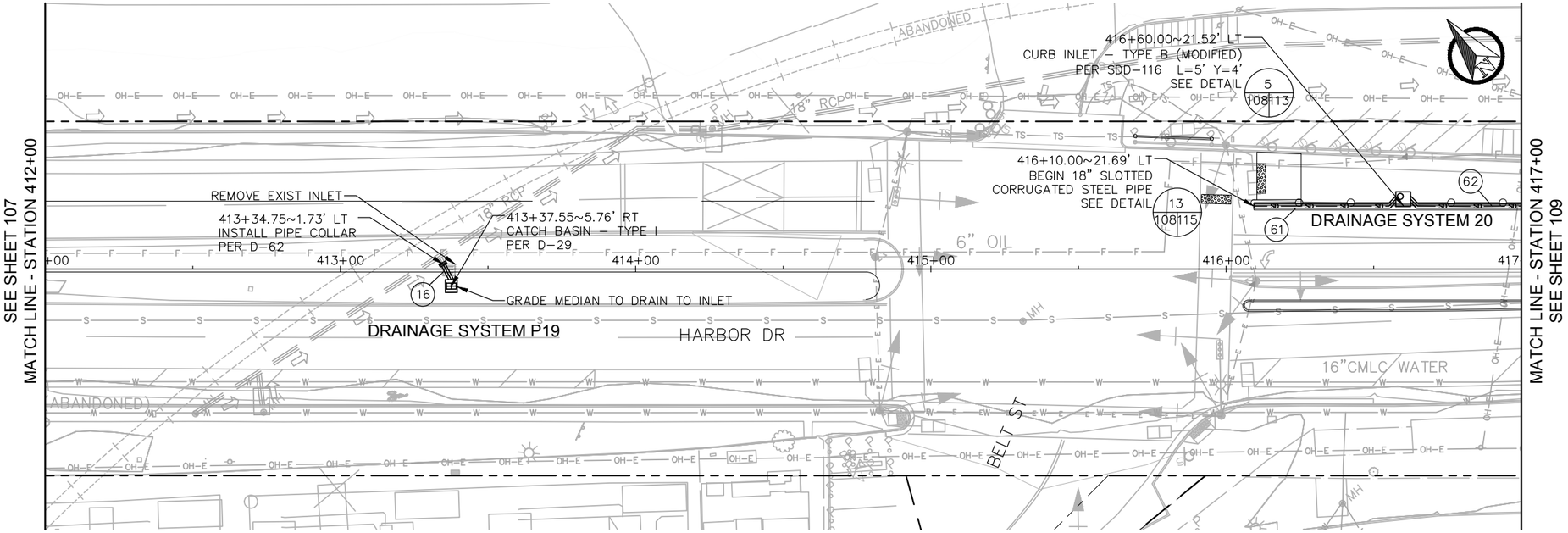


DRAINAGE SYSTEM P19

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



DRAINAGE SYSTEM P20



PLAN

20 0 20 40 FEET
1"=20'

No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
16	6.03'	18" RCP (1650-D)	0.1	1.6
61	49.04'	18" SCSP		
62	46.93'	18" SCSP		

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 108 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 108-**D**

0 1/2 1
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QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

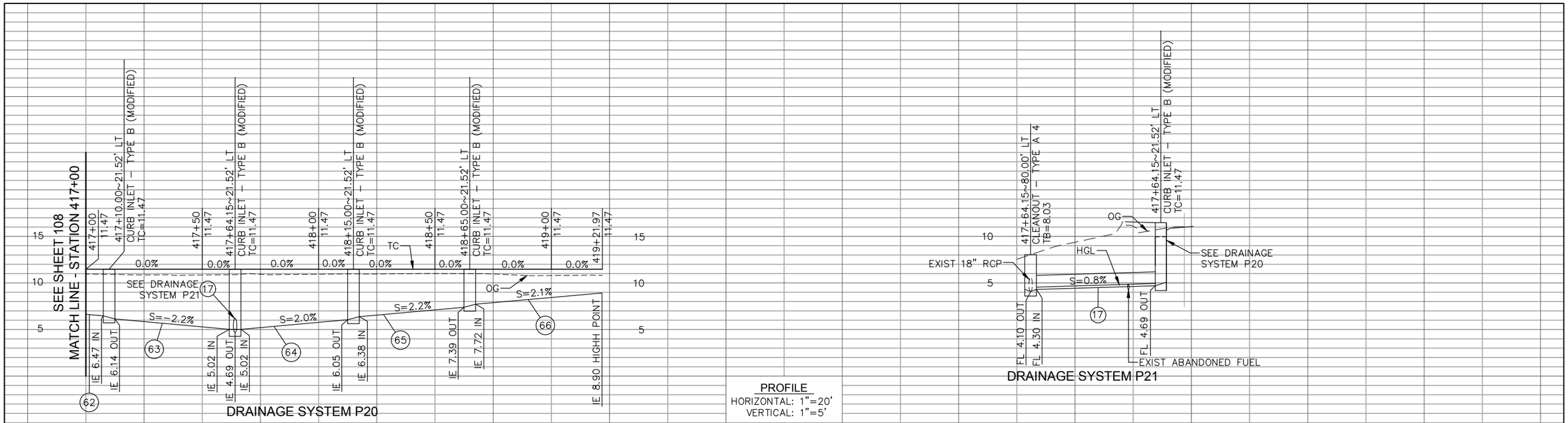
SANDAG

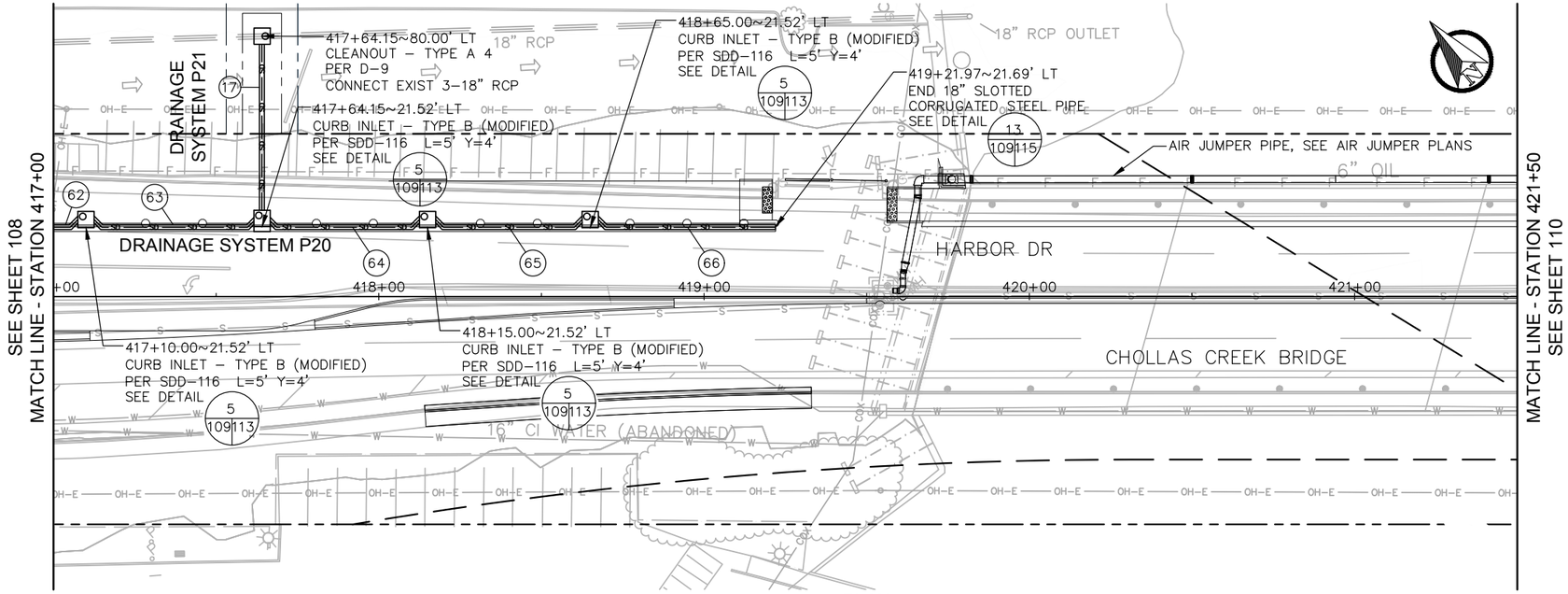
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

811 Know what's below. Call before you dig.

5/4/2019 10:22:59 PM

NOT FOR CONSTRUCTION – MAY 6, 2019





PLAN

20 0 20 40 FEET
1"=20'

No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
17	51.07'	18" RCP (CLASS 1650-D)	1.6	
62	46.93'	18" SCSP		
63	50.90'	18" SCSP		
64	47.61'	18" SCSP		
65	46.93'	18" SCSP		
66	55.44'	18" SCSP		

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
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www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 109 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

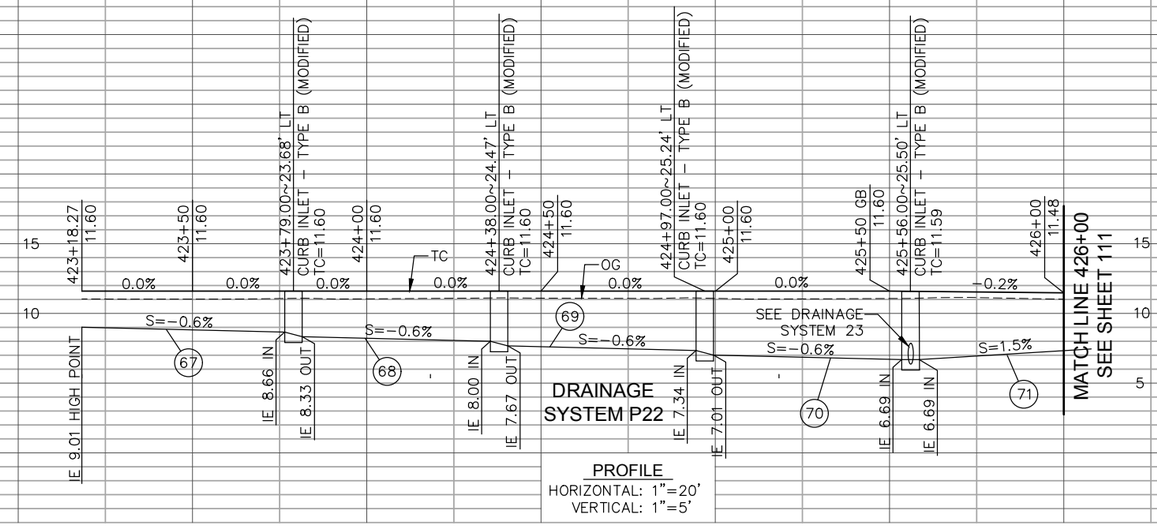
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

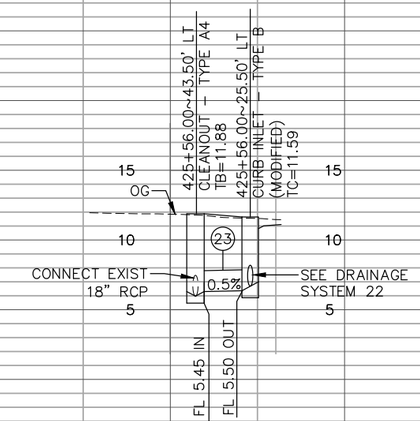
41370- 109-**D**

NOT FOR CONSTRUCTION – MAY 6, 2019

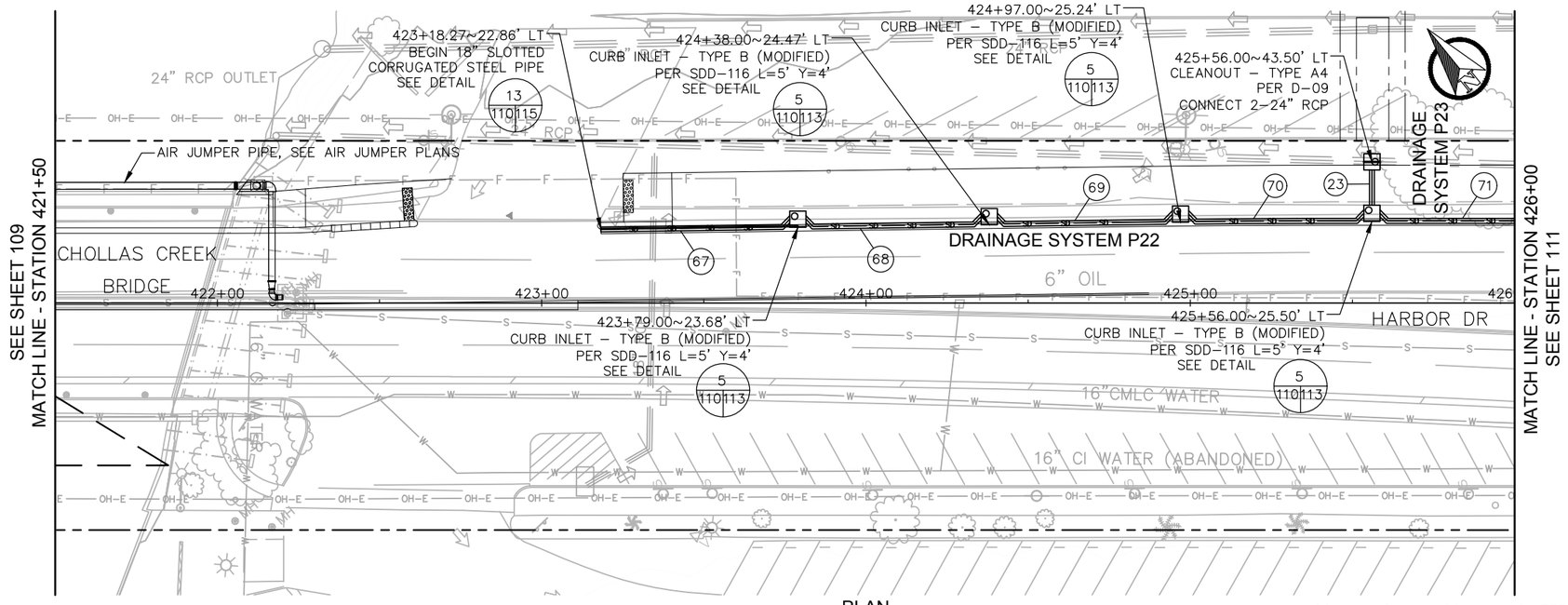
5/4/2019 10:28:47 PM



PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



DRAINAGE SYSTEM P23



PLAN

20 0 20 40 FEET
1"=20'

No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
23	10.84'	18" RCP (1650-D)	3.8	13.0
67	59.23'	18" SCSP		
68	55.95'	18" SCSP		
69	55.95'	18" SCSP		
70	55.95'	18" SCSP		
71	58.97'	18" SCSP		

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY J. LAHAYE	DATE 5/19	
DRAWN BY D. LOPEZ	5/19	
CHECKED BY A. RIVERA	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 110 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

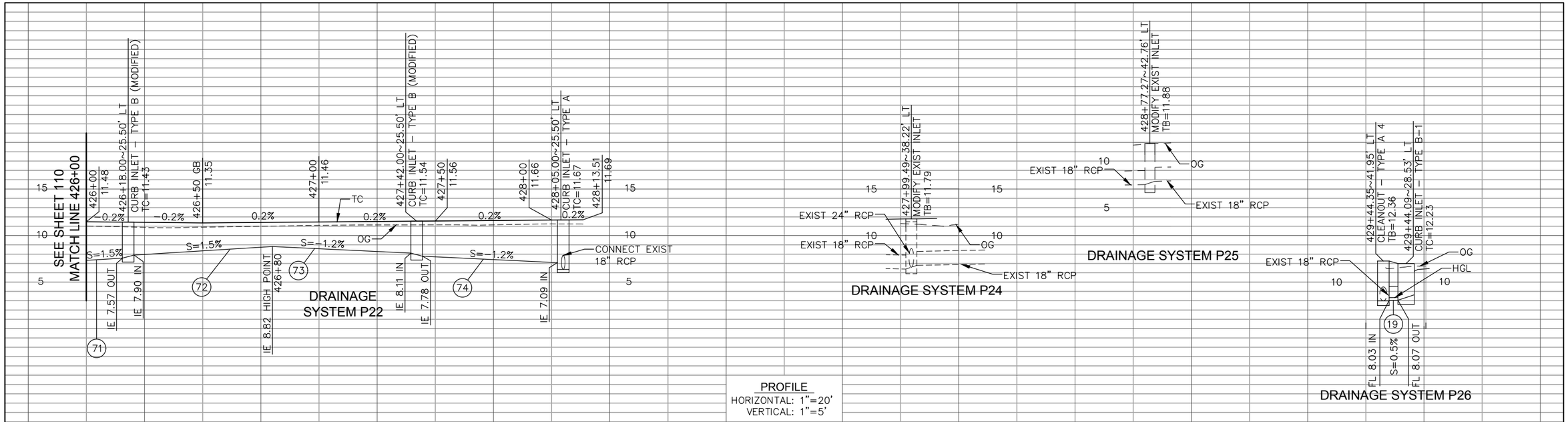
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

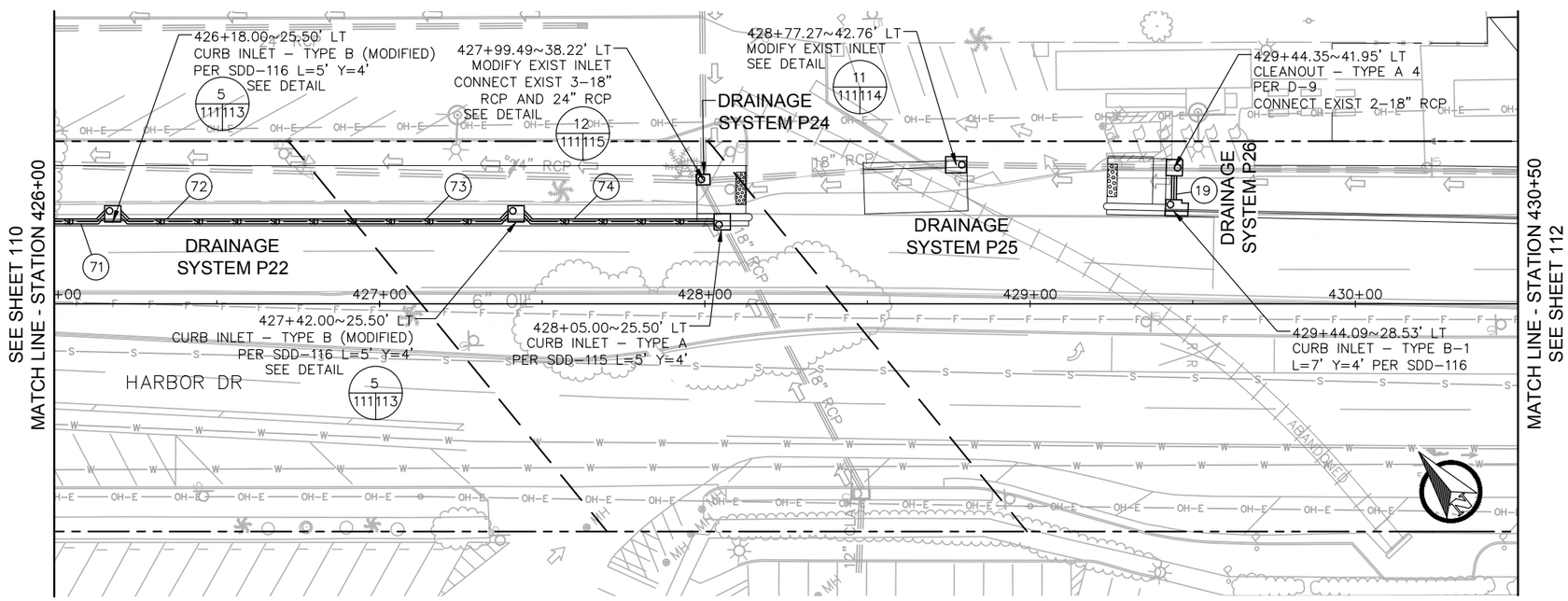
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 110-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/4/2019 10:34:38 PM





No.	LENGTH	TYPE	Q_{100} (CFS)	V_{100} (FT/S)
19	7.34'	18" RCP (900-D)	1.6	2.4
71	58.97'	18" SCSP		
72	60.48'	18" SCSP		
73	60.48'	18" SCSP		
74	59.97'	18" SCSP		

PLAN

20 0 20 40 FEET
1"=20'

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY J. LAHAYE	DATE 5/19	
DRAWN BY D. LOPEZ	5/19	
CHECKED BY A. RIVERA	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 111 OF 187 SHEETS

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

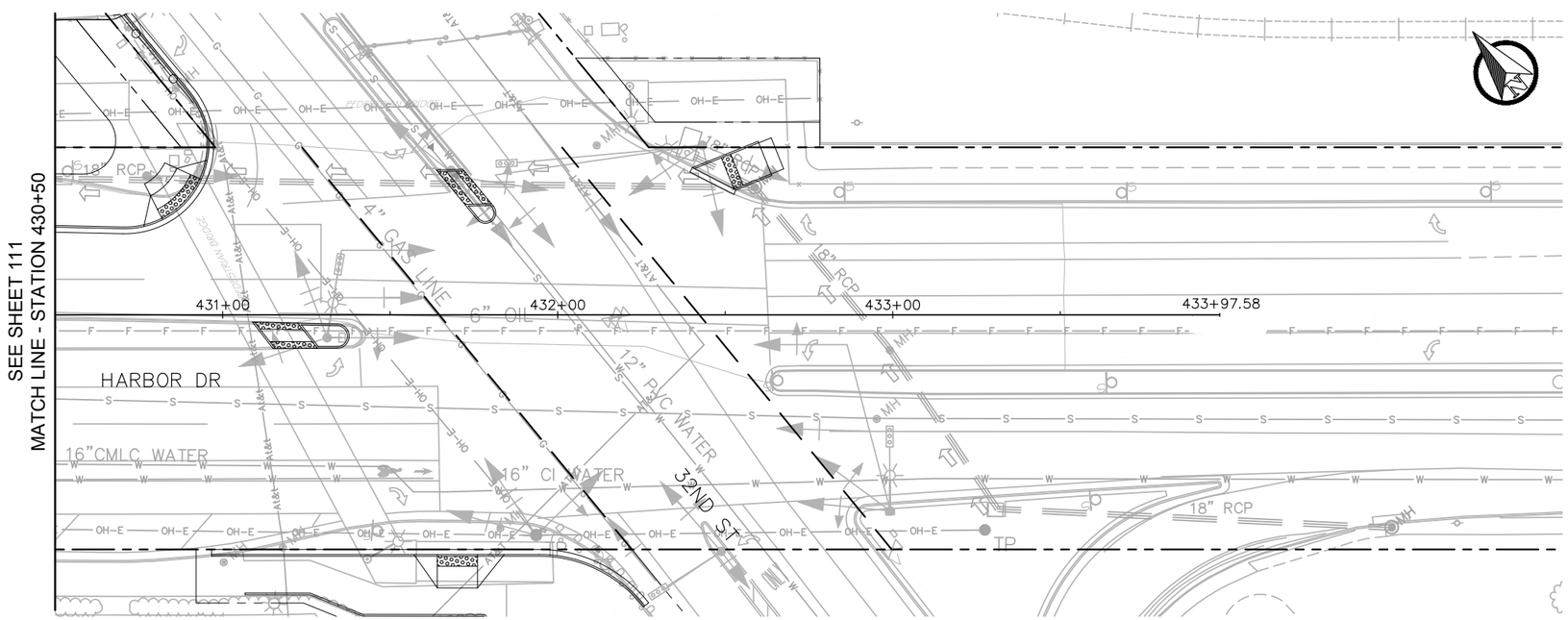
PROJECT NO. ____
V.T.M. ____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

41370- 111-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 3:03:15 PM

PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



PLAN

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

DRAINAGE AND GRADING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 112 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 112-**D**

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
JENNEVIEVE J. LAHAYE
No. 67653
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

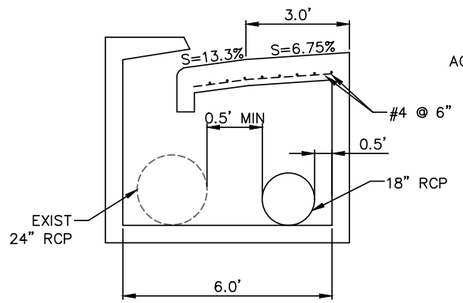
		DATE
DESIGNED BY	J. LAHAYE	5/19
DRAWN BY	D. LOPEZ	5/19
CHECKED BY	A. RIVERA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

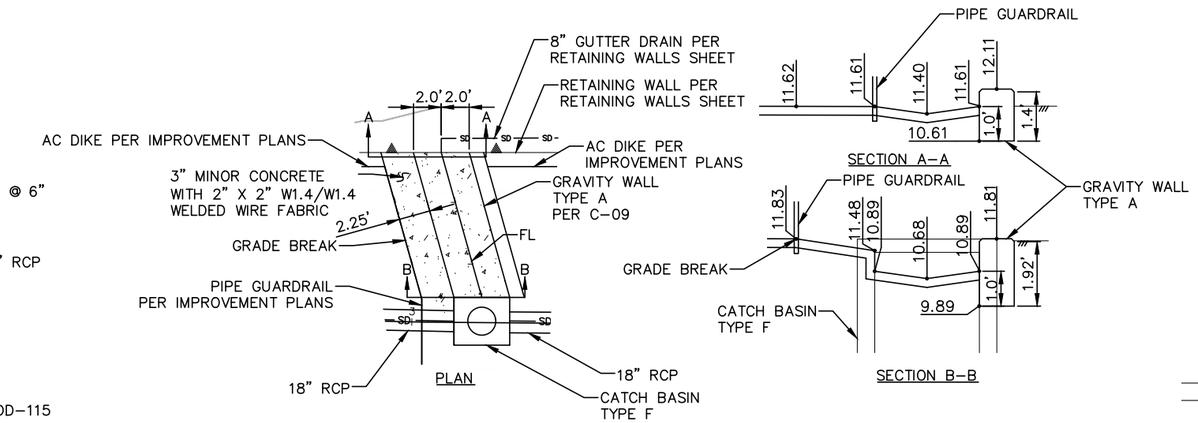
5/4/2019 10:43:00 PM

NOT FOR CONSTRUCTION – MAY 6, 2019

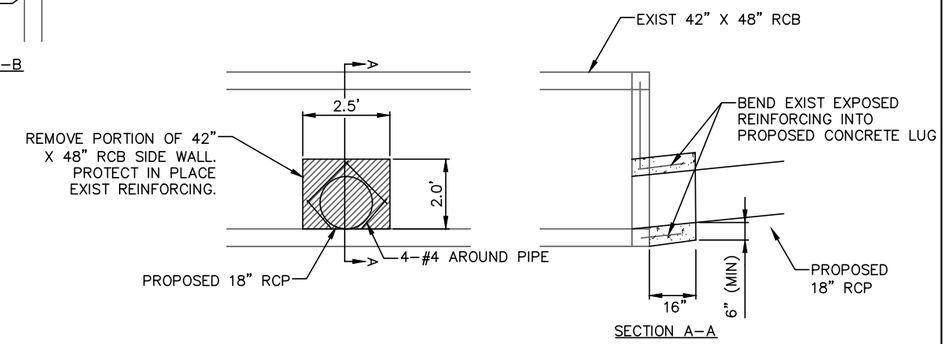


CURB INLET TO BE CONSTRUCTED PER SDD-115
EXCEPT AS SHOWN ABOVE

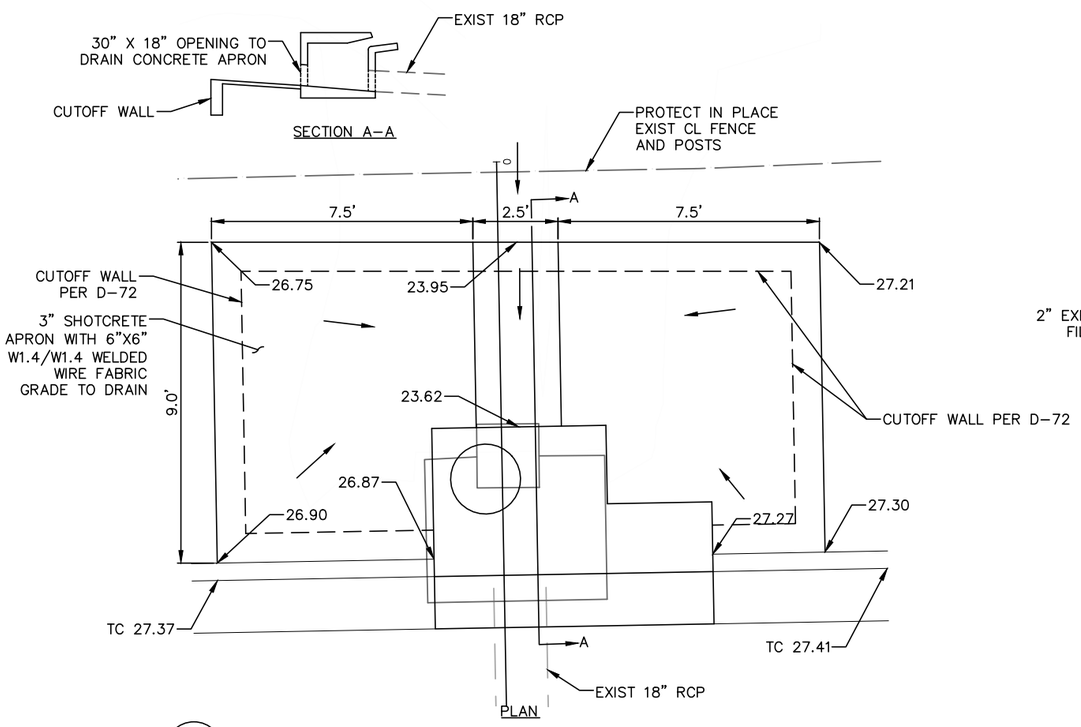
1 / 105 113 CURB INLET - TYPE A (MODIFIED)
NTS



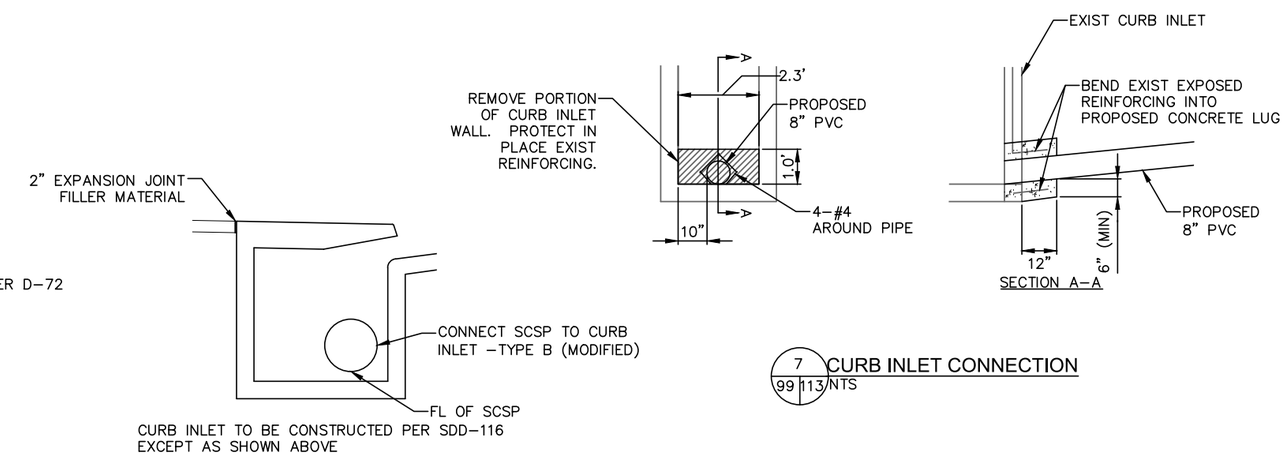
2 / 103 113 DRAINAGE CHANNEL
NTS



3 / 104 113 RCB CONNECTION
NTS



4 / 97 113 CURB INLET (MODIFIED) AND CONCRETE APRON
1" = 2'



5 / VAR 113 CURB INLET - TYPE B (MODIFIED)
NTS

7 / 99 113 CURB INLET CONNECTION
NTS

811 Know what's below. Call before you dig.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY J. LAHAYE	DATE 5/19	
DRAWN BY J. LAHAYE	5/19	
CHECKED BY A. RIVERA	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

DRAINAGE DETAILS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 113 OF 107 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

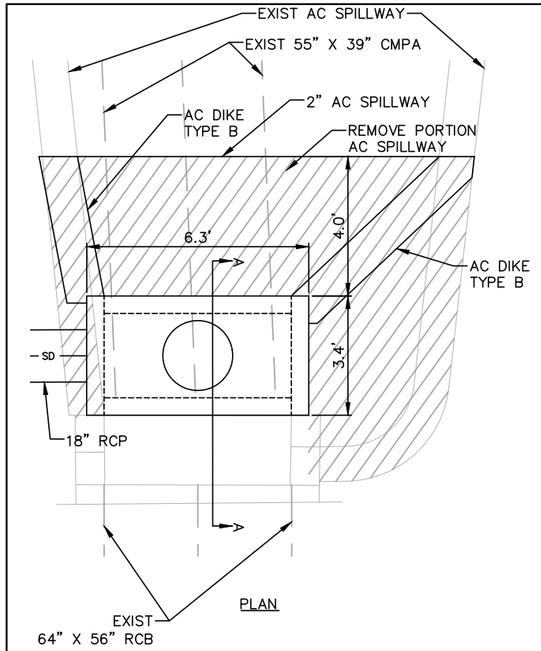
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

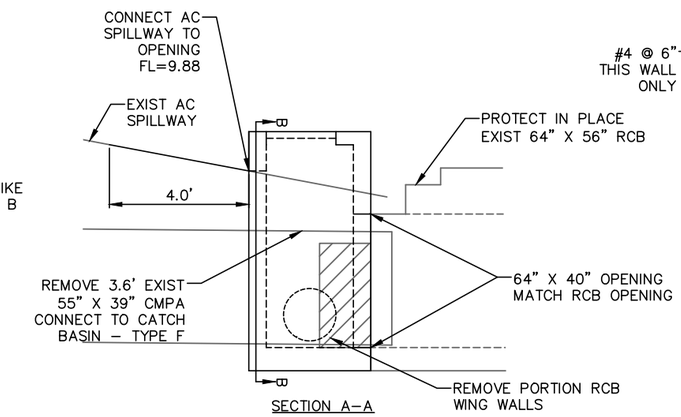
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 113-**D**

NOT FOR CONSTRUCTION – MAY 6, 2019

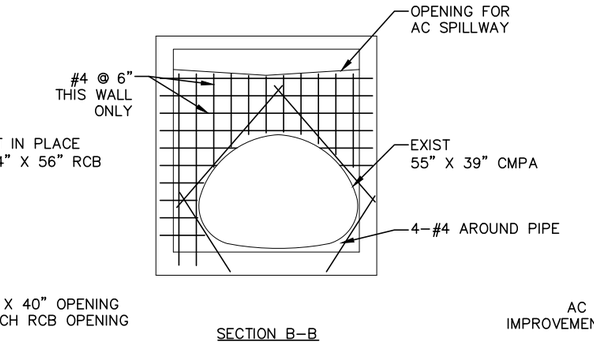
5/14/2019 1:43:13 PM

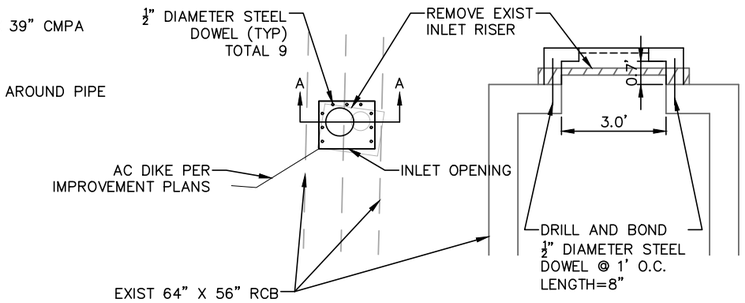




CATCH BASIN TO BE CONSTRUCTED PER SDD–119 EXCEPT AS SHOWN ABOVE.

9 / 103 114 CATCH BASIN - TYPE F (MODIFIED)
NTS

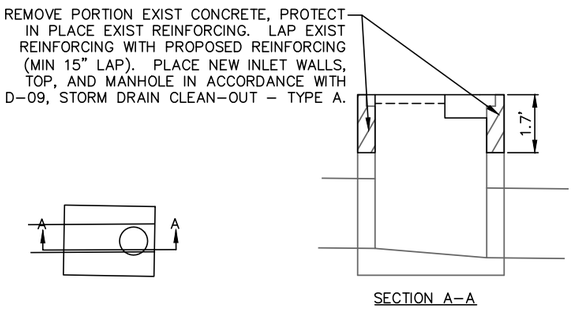




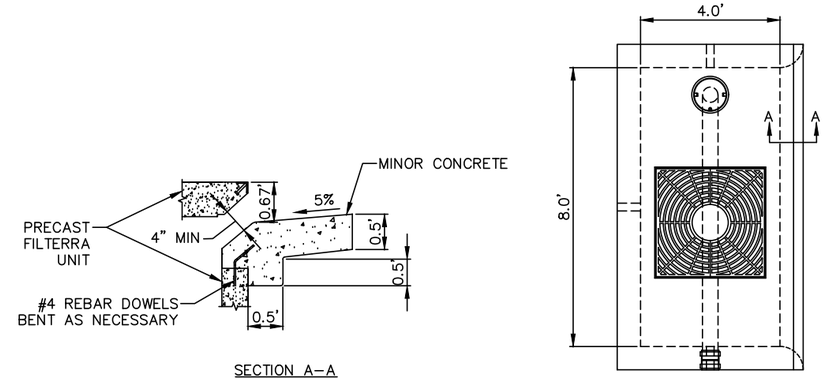
CONSTRUCT INLET DIMENSIONS AND REINFORCING AS PER SDD–116, EXCEPT AS SHOWN HERE.

10 / 103 114 CURB INLET - TYPE B (MODIFIED)
NTS

REMOVE PORTION EXIST CONCRETE, PROTECT IN PLACE EXIST REINFORCING. LAP EXIST REINFORCING WITH PROPOSED REINFORCING (MIN 15" LAP). PLACE NEW INLET WALLS, TOP, AND MANHOLE IN ACCORDANCE WITH D–09, STORM DRAIN CLEAN–OUT – TYPE A.



11 / 111 114 MODIFY EXIST INLET
NTS



8 / VAR 114 8X4 FILTERRA UNIT
NTS

PUBLIC CONTRACT

DRAINAGE DETAILS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 114 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS–BUILTS				

1834–6287 NAD83 COORDINATES
XXX–XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 114-**D**

811 Know what's below. Call before you dig.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
JENNEVIEVE J. LAHAYE
No. 67653
Exp. 06/30/19
CIVIL
STATE OF CALIFORNIA

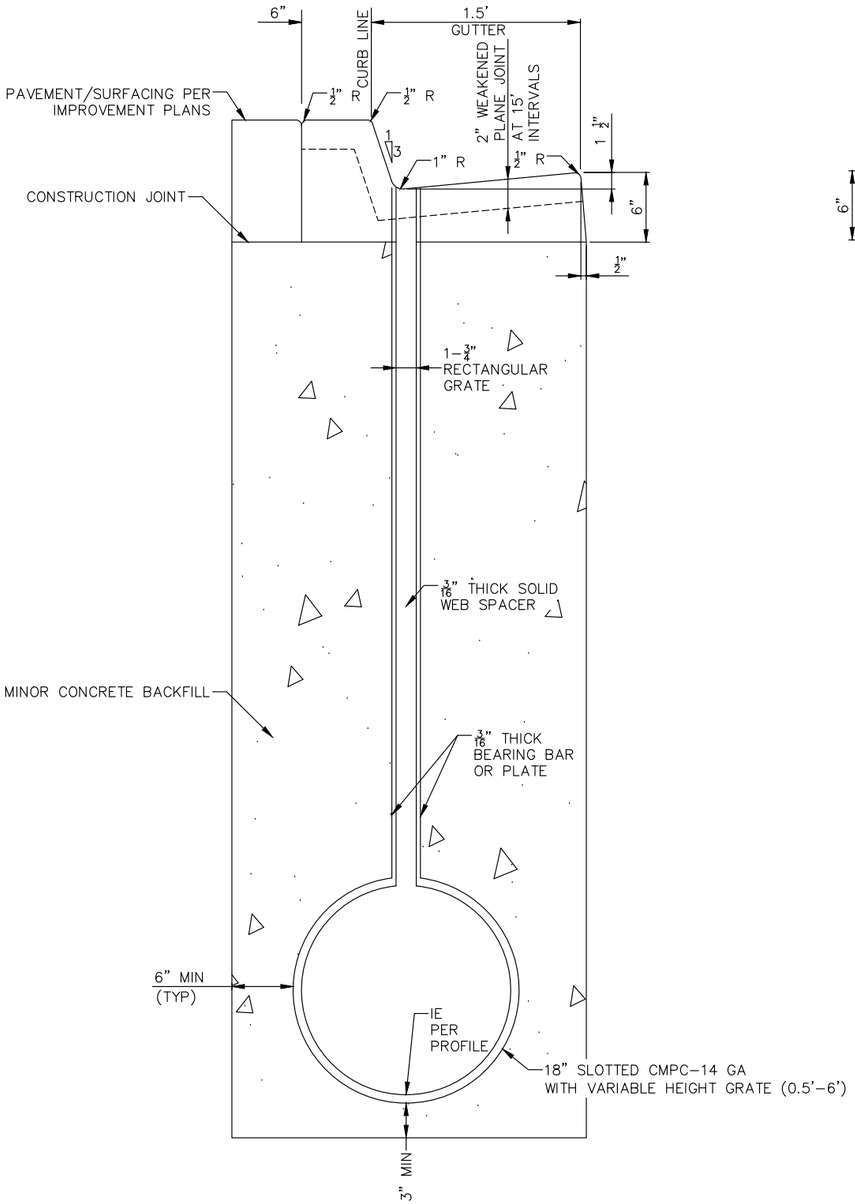
DESIGNED BY J. LAHAYE	DATE 5/19	
DRAWN BY J. LAHAYE	5/19	
CHECKED BY A. RIVERA	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

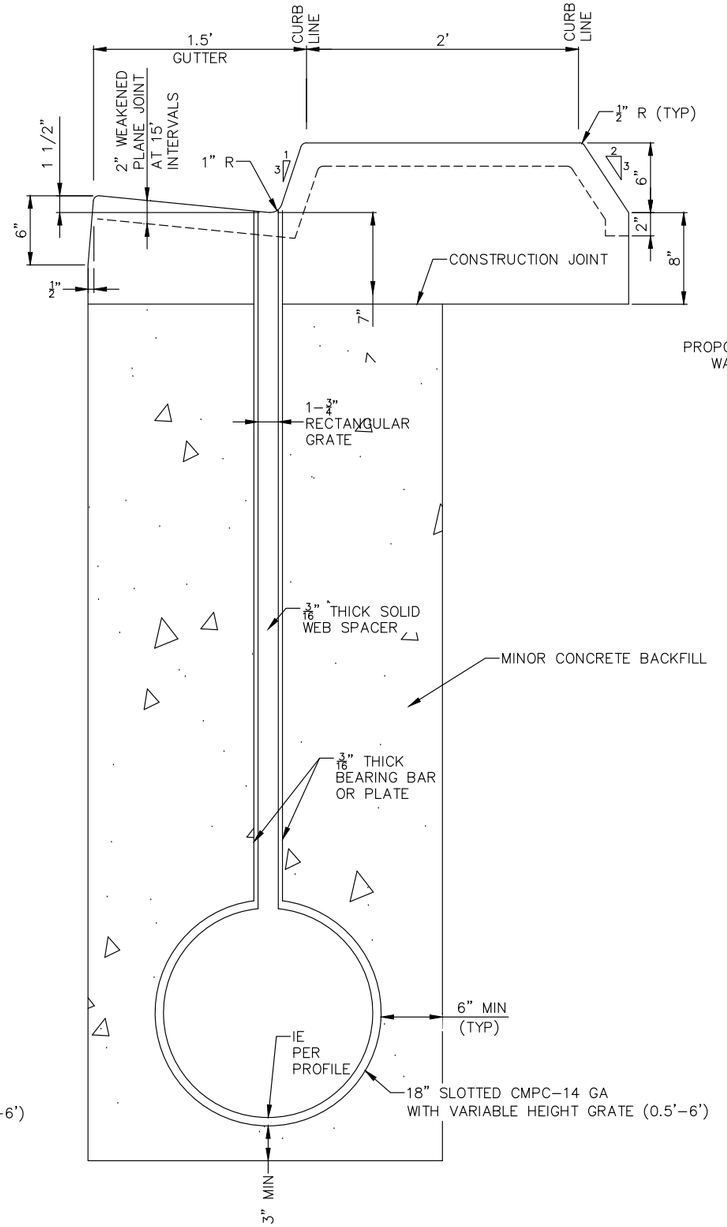
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

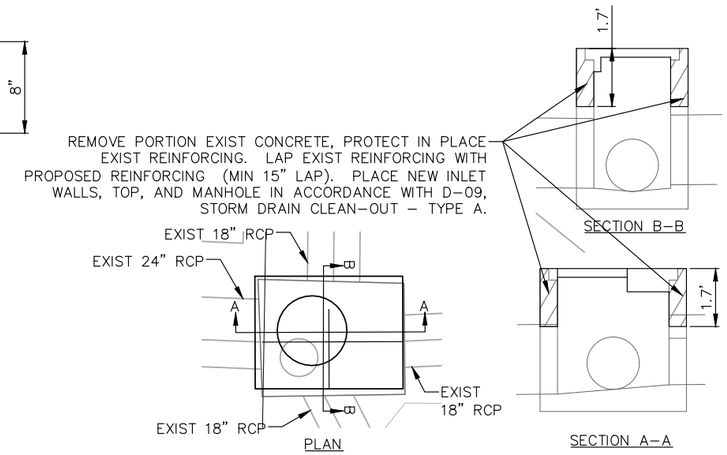
5/5/2019 9:59:39 AM



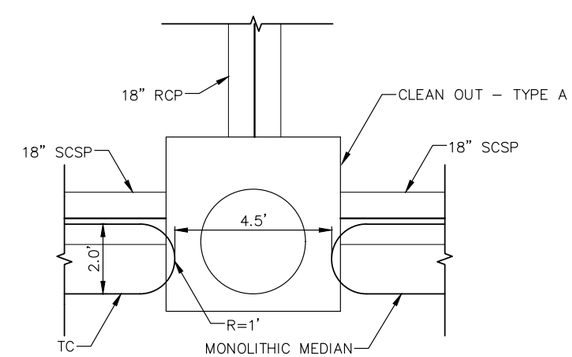
6 VAR 115 SLOTTED CORRUGATED STEEL PIPE (CURB AND GUTTER)
NTS



13 VAR 115 SLOTTED CORRUGATED STEEL PIPE (MONOLITHIC MEDIAN)
NTS



12 111 115 MODIFY EXIST INLET
NTS



15 104 115 CLEANOUT - TYPE A AND MONOLITHIC MEDIAN
NTS

PUBLIC CONTRACT

DRAINAGE DETAILS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 115 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 115-**D**

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0 1/2 1
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QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

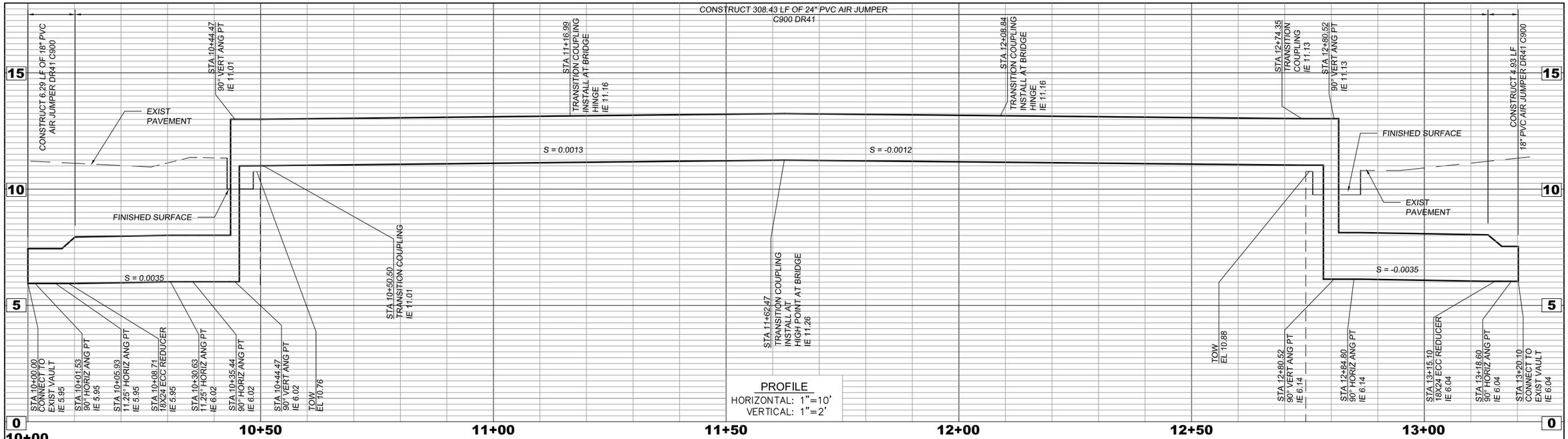
		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	J. LAHAYE	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

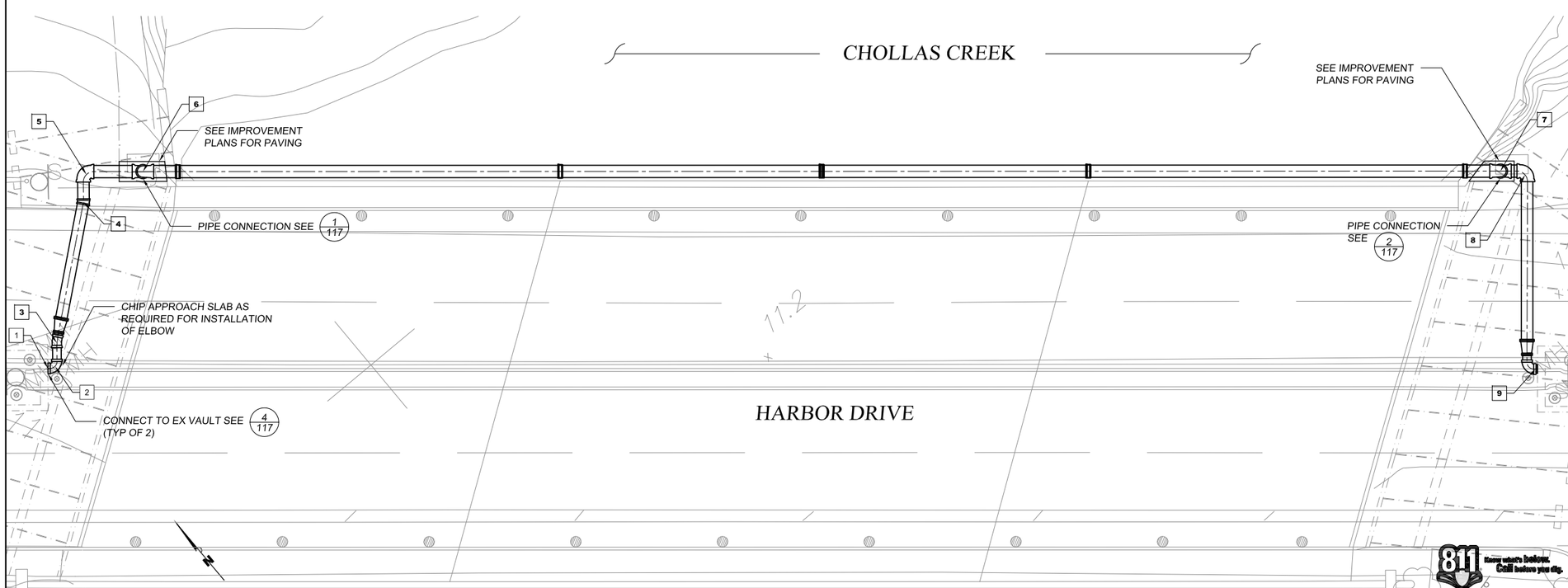
SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/6/2019 11:47:19 AM





NOTES:

1. INSTALL TRANSITION COUPLING WITH SHEAR SHIELD (TYP OF 5).
2. FOR ALL BURIED PIPING INSTALL WARNING AND LOCATING TAPE (AS SEWER PIPE)
3. SEE BRIDGE PLANS FOR PIPE SUPPORT AND ANCHORS AT BRIDGE.
4. SEE IMPROVEMENT PLANS FOR PAVING AND MINOR RETAINING WALL DETAILS.
5. ALL JOINTS ARE PUSH ON.

COORDINATE TABLE

NO	STATION	NORTHING	EASTING	DESCRIPTION
1	10+00.00			EXIST VAULT
2				ANG PT
3				11.25° ANG PT
4				11.25° ANG PT
5				ANG PT
6				ANG PT
7				ANG PT
8				ANG PT
9				EXIST VAULT

PUBLIC CONTRACT

CHOLLAS CREEK BRIDGE
AIR JUMPER PLAN & PROFILE
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 116 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	IEC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-116-D

811 Know what's below. Call before you dig.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

Infrastructure ENGINEERING CORPORATION
14271 Danielson Street
Poway, California 92064
T 858.413.2400 F 858.413.2440
www.iecorporation.com

REGISTERED PROFESSIONAL ENGINEER ARTC M. GNESA No. 68339 Exp. 9-30-19 CIVIL STATE OF CALIFORNIA

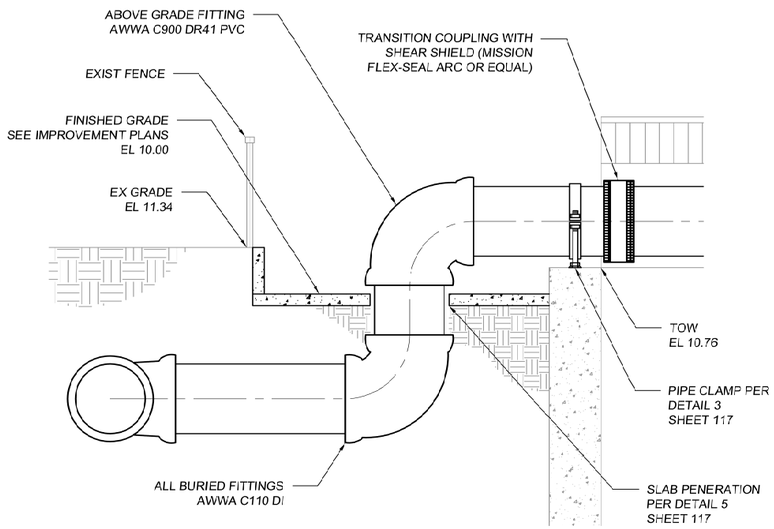
		DATE
DESIGNED BY	V. VO	5/19
DRAWN BY	V. VO	5/19
CHECKED BY	A. GNESA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO. 116

5/2/2019 9:45:53 AM

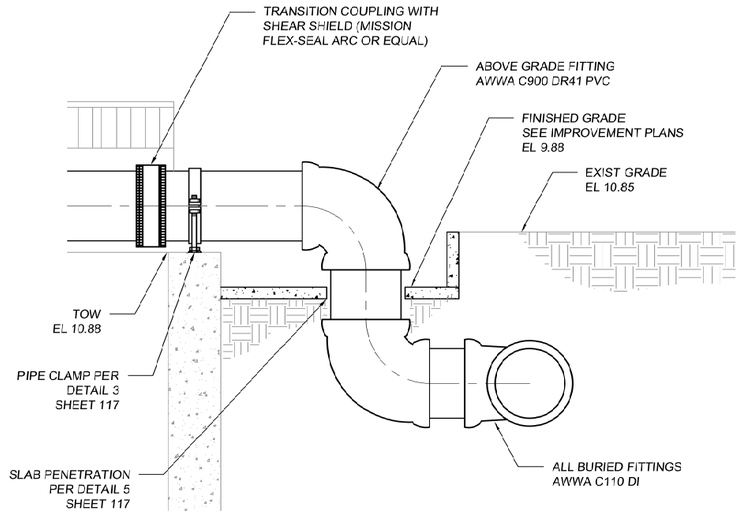
NOT FOR CONSTRUCTION – MAY 6, 2019



NORTH PIPE CONNECTION (1/117)

SCALE: 1" = 2'

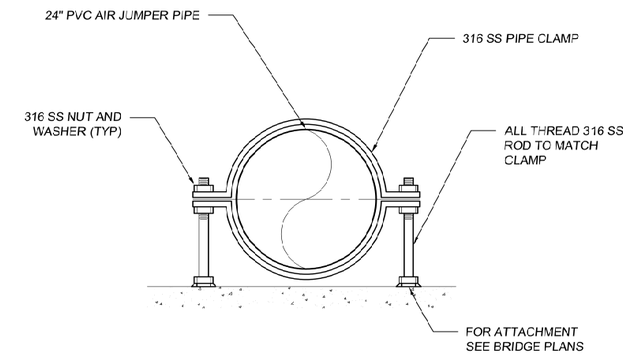
NOTES:
1. ALL JOINTS ARE PUSH-ON.



SOUTH PIPE CONNECTION (2/117)

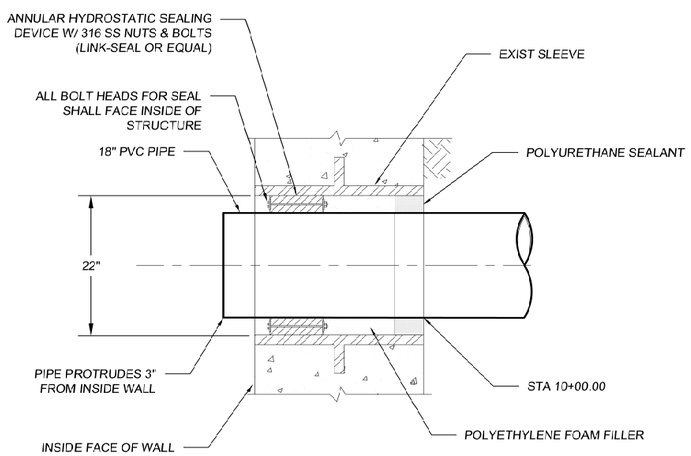
SCALE: 1" = 2'

NOTES:
1. ALL JOINTS ARE PUSH-ON.



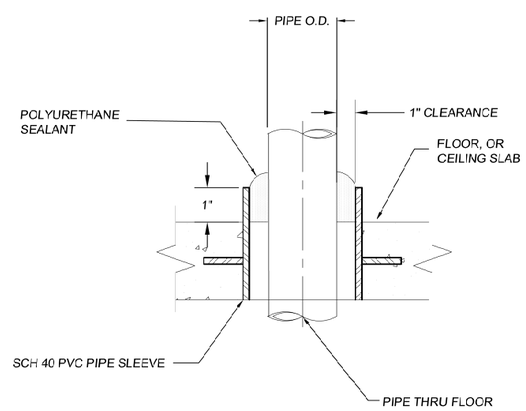
PIPE SUPPORT AT WING WALL (TYP) (3/117)

SCALE: NTS



CONNECTION TO EXISTING VAULT (TYP) (4/117)

SCALE: NTS



SLAB PENETRATION (5/117)

SCALE: NTS

PUBLIC CONTRACT

CHOLLAS CREEK BRIDGE
AIR JUMPER DETAILS

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 117 OF 187 SHEETS

PROJECT NO. _____
V.T.M _____

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	IEC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- 117-D

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Infrastructure ENGINEERING CORPORATION
14271 Danielson Street
Poway, California 92064
T 858.413.2400 F 858.413.2440
www.iecorporation.com

REGISTERED PROFESSIONAL ENGINEER ARIC M. GNESA No. 68339 Exp. 9-30-19 CIVIL STATE OF CALIFORNIA

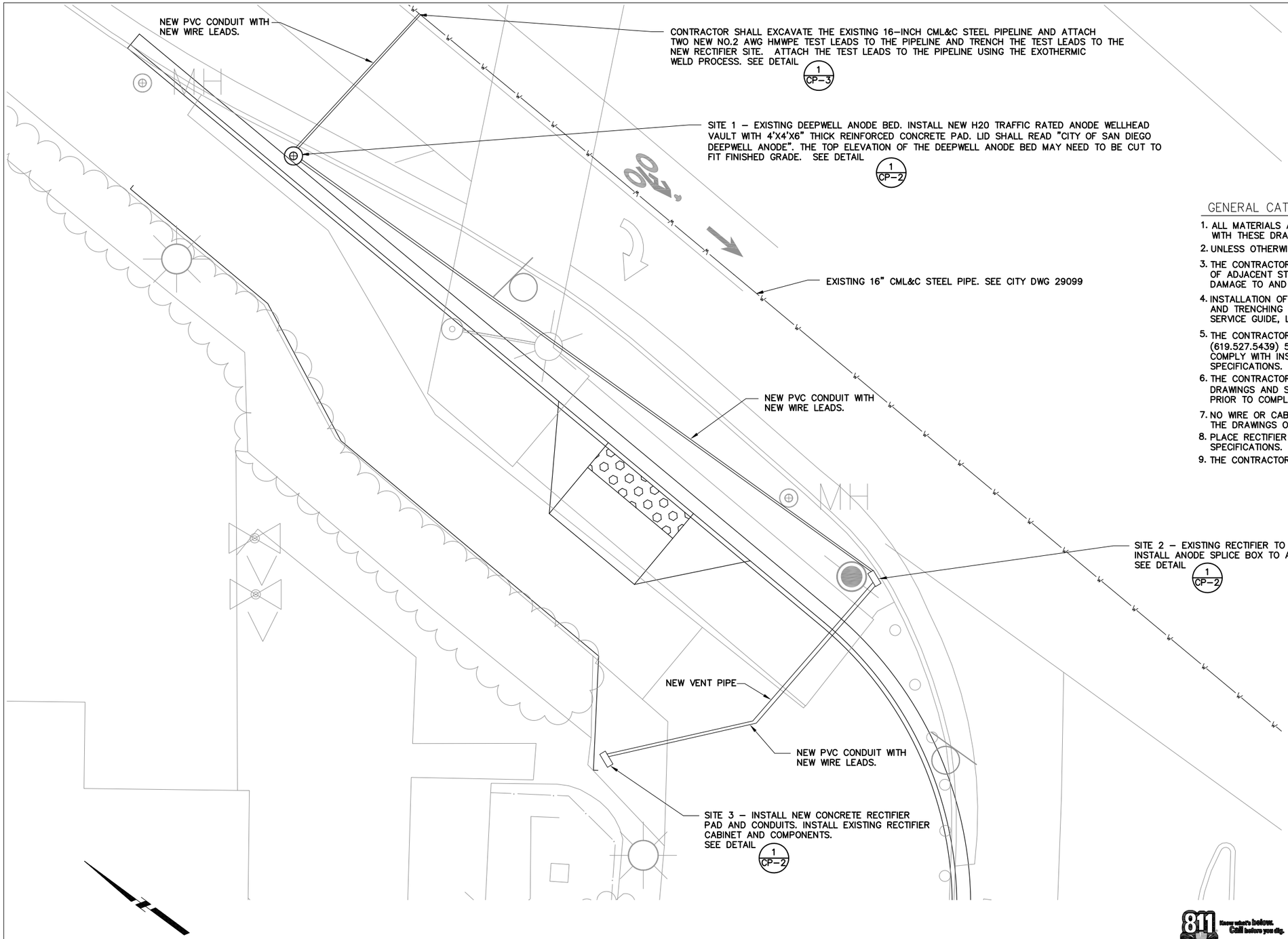
DESIGNED BY	V. VO	5/19
DRAWN BY	V. VO	5/19
CHECKED BY	A. GNESA	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO. 117

NOT FOR CONSTRUCTION – MAY 6, 2019

5/6/2019 9:32:43 AM



GENERAL CATHODIC PROTECTION NOTES

1. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND TECHNICAL SPECIFICATIONS
2. UNLESS OTHERWISE NOTED DRAWINGS ARE NOT SHOWN TO SCALE.
3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ADJACENT STRUCTURES AND UTILITIES AND FOR AVOIDING DAMAGE TO AND CONFLICT WITH THESE STRUCTURES OR UTILITIES.
4. INSTALLATION OF WATT-HOUR METER, SOCKET, AC WIRING, CONDUIT AND TRENCHING FOR AC WIRING MUST BE IN COMPLIANCE WITH SDG&E SERVICE GUIDE, LATEST EDITION.
5. THE CONTRACTOR SHALL NOTIFY THE CITY'S CORROSION SECTION (619.527.5439) 5 DAYS PRIOR TO WIRE SPLICE INSTALLATIONS AND COMPLY WITH INSPECTION REQUIREMENTS AS INDICATED IN THE SPECIFICATIONS.
6. THE CONTRACTOR SHALL DOCUMENT ALL CHANGES FROM THESE DRAWINGS AND SUBMIT 'AS-BUILT' DRAWINGS TO THE ENGINEER PRIOR TO COMPLETION OF THE WORK.
7. NO WIRE OR CABLE SPLICES ARE PERMITTED EXCEPT AS INDICATED IN THE DRAWINGS OR AS SPECIFICALLY APPROVED BY THE ENGINEER.
8. PLACE RECTIFIER WITHIN CITY EASEMENT. TRENCH WIRES PER SPECIFICATIONS.
9. THE CONTRACTOR SHALL REPLACE LANDSCAPING IN KIND.

PUBLIC CONTRACT

CP-1

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CATHODIC PROTECTION SITE PLAN

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 118 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	RFYE			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-118-D

811 Know what's below. Call before you dig.

0 1/2 1
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R.F. Yeager
CORROSION ENGINEERING CONSULTANTS
1016 BROADWAY, SUITE A
EL CAJON, CA 92021
PHONE: 619.312.0195
FAX: 619.312.0197

REGISTERED PROFESSIONAL ENGINEER
RICHARD F. YEAGER JR.
No. 70686
Exp. 06-30-19
CIVIL
STATE OF CALIFORNIA

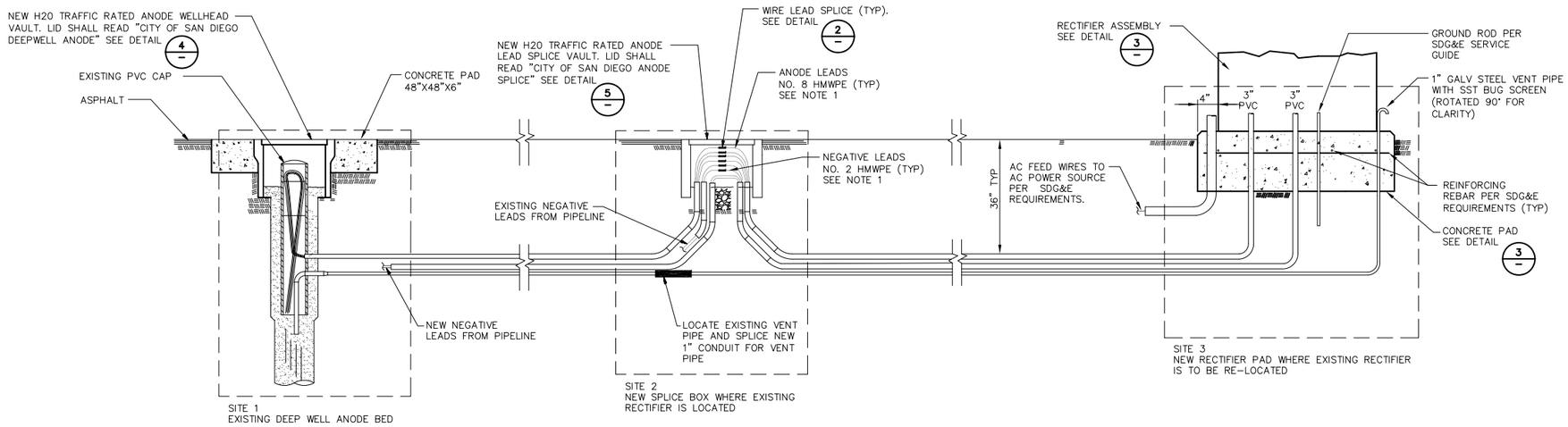
	DATE
DESIGNED BY RFYJ	04/19
DRAWN BY GPM	04/19
CHECKED BY RJG	04/19
SANDAG PRJ MGR E. RODRIGUEZ	04/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 10:20:43 AM

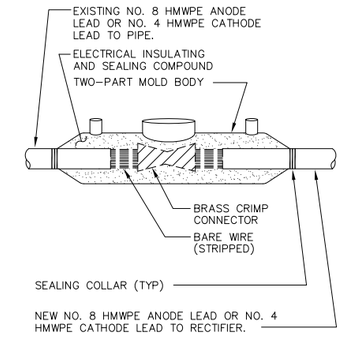


NOTE

1. CONTRACTOR SHALL TAKE CARE SO AS NOT TO NICK, CUT, OR DAMAGE ANODE LEAD WIRE INSULATION. ANY DAMAGED WIRE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE

ANODE WELLHEAD, SPLICE BOX, NEW RECTIFIER PAD (1 / VAR)

NOT TO SCALE

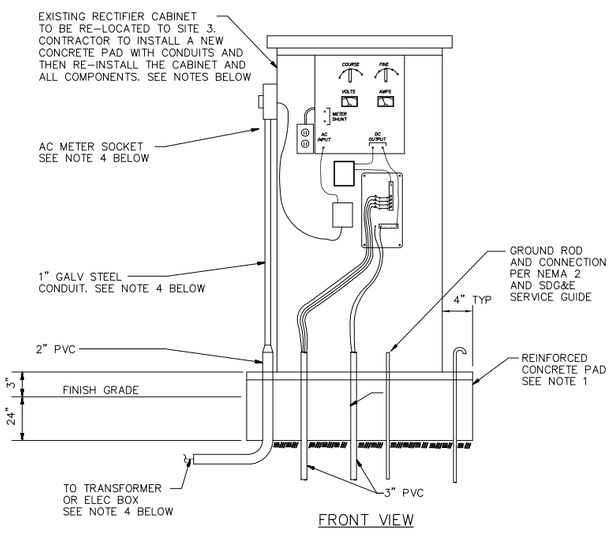


NOTES:

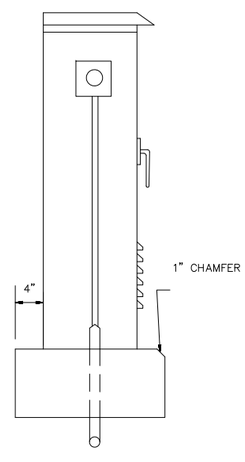
1. USE 3M SCOTCHCAST 72-N SPLICE KIT, OR APPROVED EQUAL.
2. ALTERNATE SPLICE METHODS MUST BE SUBMITTED TO THE CITY'S CORROSION SECTION FOR APPROVAL.

WIRE LEAD SPLICE (2 / -)

NOT TO SCALE



FRONT VIEW



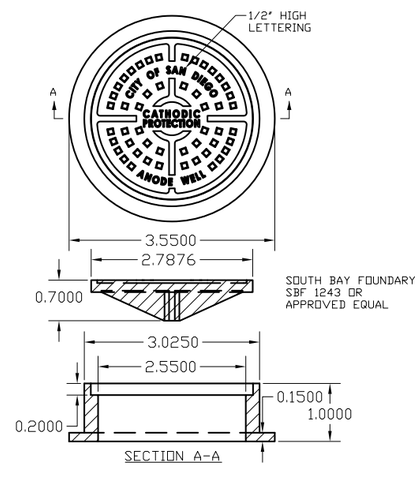
SIDE VIEW

NOTES:

1. CONCRETE PAD TO BE 4" LARGER THAN ENCLOSURE ON ALL SIDES.
2. PROVIDE INSULATED BACK PANEL SUITABLE FOR MOUNTING ALL COMPONENTS.
3. ALL TRENCHING OF CONDUITS SHALL BE PER SDG-117 OR SDG&E REQUIREMENTS.
4. METER SOCKET WILL NOT BE REQUIRED IF A NEW AC METER PEDESTAL IS INSTALLED NEAR THE NEW TRANSFORMER.

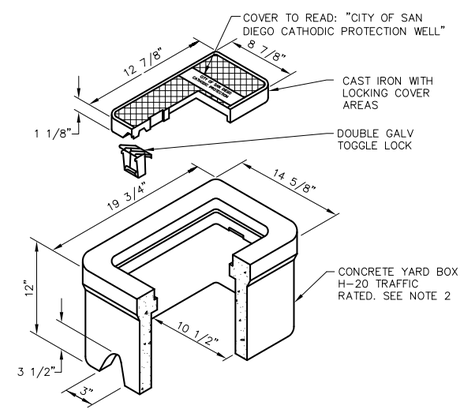
RECTIFIER ASSEMBLY (3 / -)

NOT TO SCALE



ANODE WELLHEAD COVER (4 / -)

NOT TO SCALE



NOTES:

1. USE CHRISTY H-20 TRAFFIC RATED BOX OR APPROVED EQUAL.

ANODE SPLICE BOX (5 / -)

NOT TO SCALE

0 1/2 1

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R.F. Yeager ENGINEERING — CORROSION ENGINEERING CONSULTANTS
1016 BROADWAY, SUITE A
EL CAJON, CA 92021
PHONE: 619.312.0195
FAX: 619.312.0197

REGISTERED PROFESSIONAL ENGINEER — RICHARD F. YEAGER — No. 70686 — Exp. 06-30-19 — CIVIL — STATE OF CALIFORNIA

DESIGNED BY	RFYJ	DATE 04/19
DRAWN BY	GPM	04/19
CHECKED BY	RJG	04/19
SANDAG PRJ MGR	E. RODRIGUEZ	04/19

SANDAG

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PUBLIC CONTRACT

CP-2

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CATHODIC PROTECTION DETAILS

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 119 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	RFYE			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

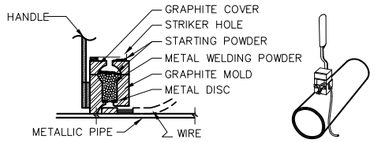
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

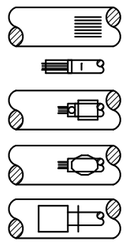
CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-119-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 10:21:36 AM





STEP 1. FILE STRUCTURE CONNECTION AREA (3 IN. x 3 IN.) TO BARE SHINY METAL AND CLEAN.

STEP 2. STRIP INSULATION FROM WIRE.

STEP 3. HOLD MOLD FIRMLY WITH OPENING AWAY FROM OPERATOR AND IGNITE WITH STRIKER.

STEP 4. REMOVE SLAG FROM CONNECTION AND PEEN WELD FOR SOUNDNESS.

STEP 5. COVER CONNECTION AND EXPOSED STRUCTURE SURFACE WITH A BITUMINOUS COATING COMPOUND. PLACE PLASTIC SHIELD CAP FIRMLY OVER CONNECTION.

EXOTHERMIC WELD NOTES:

1. ONE WELD SHALL BE USED FOR EACH.
2. CLEAN OIL OR GREASE FROM CABLE WITH A RAPID-DRYING SOLVENT. REMOVE ONLY ENOUGH INSULATION FROM THE CABLE TO ALLOW THE EXOTHERMIC WELD CONNECTION TO BE MADE.
3. REMOVE ALL COATING, DIRT, GRIME, AND GREASE FROM THE METAL STRUCTURE AT WELD LOCATIONS BY WIRE BRUSHING AND/OR USE OF SUITABLE SAFE SOLVENTS. CLEAN THE STRUCTURE TO A BRIGHT, SHINY SURFACE. THE AREA OF THE STRUCTURE WHERE THE ATTACHMENT IS TO BE MADE MUST BE DRY.
4. OPEN WELD MOLD AND PLACE METAL DISC INSIDE AT BOTTOM OF MOLD. POUR METAL WELDING POWDER INTO MOLD AND ON TOP OF METAL DISC. STARTING POWDER IS CAKED AT THE BOTTOM OF THE WELD CHARGE CONTAINER. TAP WELD CHARGE CONTAINER AND POUR HALF OF STARTING POWDER INTO WELD MOLD. CLOSE THE TOP OF WELD MOLD AND POUR THE REMAINING STARTING POWDER IN STRIKING HOLE. THE WELD MOLD IS NOW LOADED AND READY FOR USE.
5. THE LEAD WIRE IS TO BE HELD AT AN ANGLE TO THE SURFACE WHEN WELDING. ONLY ONE WIRE SHALL BE ATTACHED WITH EACH WELD. HOLD LOADED WELD MOLD FIRMLY ON PIPE AND WIRE. IGNITE STARTING POWDER IN STRIKING HOLE USING A STRIKER. HOLD WELD MOLD FIRMLY AGAINST PIPE FOR 5 SECONDS TO ALLOW FOR WELD PROCESS.
6. WELDS SHALL BE TESTED BY STRIKING THE WELD NUGGET WITH A TWO POUND HAMMER WHILE PULLING FIRMLY ON THE WIRE. ALL UNSOUND WELDS SHALL BE REMOVED, THE SURFACES RECLEANED, REWELDED, AND RETESTED. WELD SLAG SHALL BE REMOVED.
7. APPLY PRIMER AND ELASTOMERIC WELD CAP TO THE WELD AND APPLY A BITUMASTIC COATING MATERIAL TO ALL EXPOSED AREAS AROUND THE CAP AND WIRES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE COATING SHALL OVERLAP THE STRUCTURE COATING A MINIMUM OF 3 INCHES.

EXOTHERMIC WELD

NOT TO SCALE

1 / -

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

CP-3

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CATHODIC PROTECTION DETAILS

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 12 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	RFYE			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-120-D

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

R F Yeager ENGINEERING
CORROSION ENGINEERING CONSULTANTS
1016 BROADWAY, SUITE A
EL CAJON, CA 92021
PHONE: 619.312.0195
FAX: 619.312.0197

REGISTERED PROFESSIONAL ENGINEER
RICHARD F. YEAGER
No. 70686
Exp. 06-30-19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY RFYJ	DATE 04/19
DRAWN BY GPM	04/19
CHECKED BY RJG	04/19
SANDAG PRJ MGR E. RODRIGUEZ	04/19

SANDAG

SCALE: AS SHOWN

CONTRACT NO. –

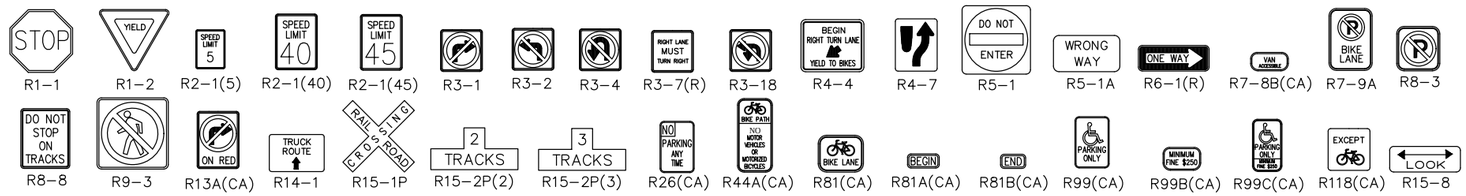
DRAWING NO. –

SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 10:22:09 AM

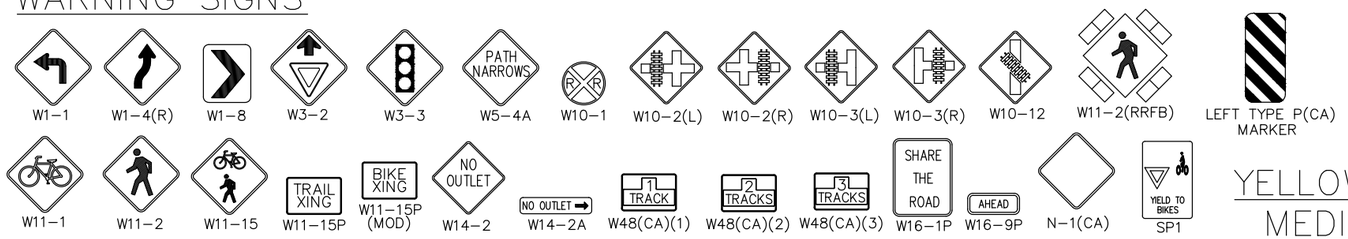
REGULATORY SIGNS



R1-1 R1-2 R2-1(5) R2-1(40) R2-1(45) R3-1 R3-2 R3-4 R3-7(R) R3-18 R4-4 R4-7 R5-1 R5-1A R6-1(R) R7-8B(CA) R7-9A R8-3

R8-8 R9-3 R13A(CA) R14-1 R15-1P R15-2P(2) R15-2P(3) R26(CA) R44A(CA) R81(CA) R81A(CA) R81B(CA) R99(CA) R99B(CA) R99C(CA) R118(CA) R15-8

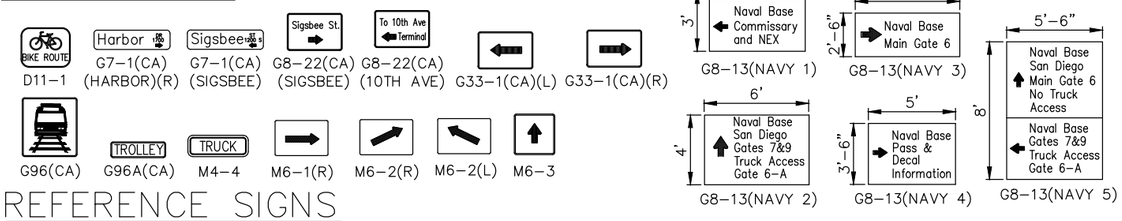
WARNING SIGNS



W1-1 W1-4(R) W1-8 W3-2 W3-3 W5-4A W10-1 W10-2(L) W10-2(R) W10-3(L) W10-3(R) W10-12 W11-2(RRFB) LEFT TYPE P(CA) MARKER

W11-1 W11-2 W11-15 W11-15P W11-15P (MOD) W14-2 W14-2A W48(CA)(1) W48(CA)(2) W48(CA)(3) W16-1P W16-9P N-1(CA) SP1

GUIDE SIGNS

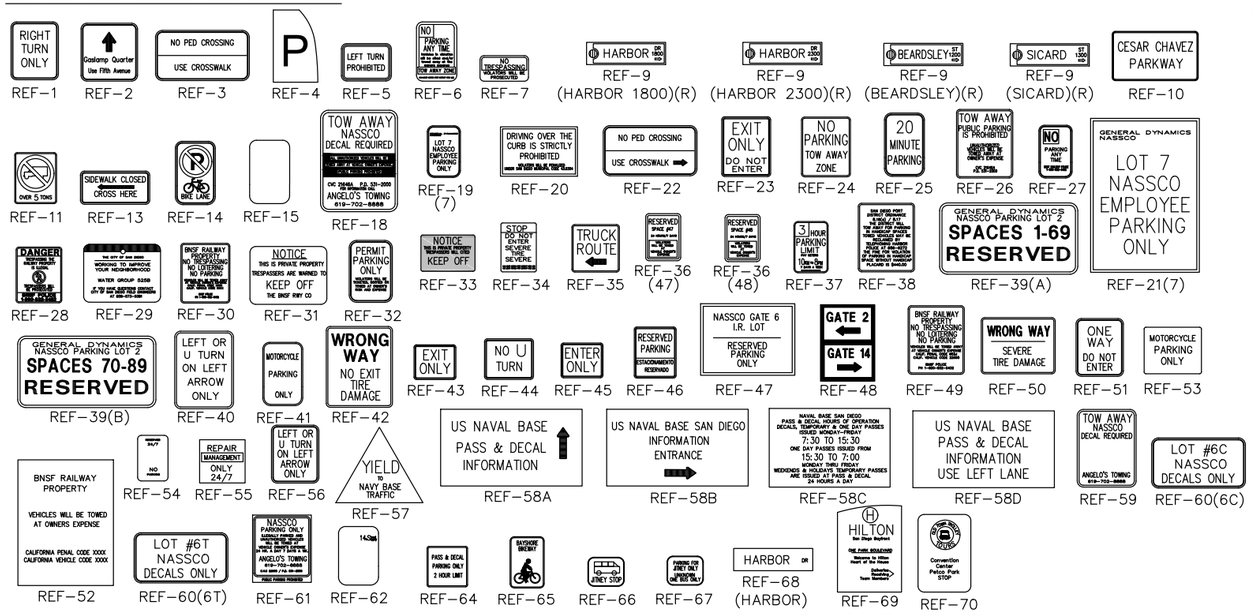


D11-1 G7-1(CA) (HARBOR)(R) G7-1(CA) (SIGSBEE) G8-22(CA) (SIGSBEE) G8-22(CA) (10TH AVE) G33-1(CA)(L) G33-1(CA)(R)

G96(CA) G96A(CA) M4-4 M6-1(R) M6-2(R) M6-2(L) M6-3

G8-13(NAVY 1) G8-13(NAVY 2) G8-13(NAVY 3) G8-13(NAVY 4) G8-13(NAVY 5)

REFERENCE SIGNS



REF-1 REF-2 REF-3 REF-4 REF-5 REF-6 REF-7 REF-9 (HARBOR 1800)(R) REF-9 (HARBOR 2300)(R) REF-9 (BEARDSLEY)(R) REF-9 (SICARD)(R) REF-10

REF-11 REF-13 REF-14 REF-15 REF-18 REF-19 (7) REF-20 REF-22 REF-23 REF-24 REF-25 REF-26 REF-27 REF-21(7)

REF-28 REF-29 REF-30 REF-31 REF-32 REF-33 REF-34 REF-35 REF-36 (47) REF-36 (48) REF-37 REF-38 REF-39(A)

REF-39(B) REF-40 REF-41 REF-42 REF-43 REF-44 REF-45 REF-46 REF-47 REF-48 REF-49 REF-50 REF-51 REF-53

REF-54 REF-55 REF-56 REF-57 REF-58A REF-58B REF-58C REF-58D REF-59 REF-60(6C)

REF-52 REF-60(6T) REF-61 REF-62 REF-64 REF-65 REF-66 REF-67 REF-68 (HARBOR) REF-69 REF-70

REPORT EMERGENCY CALL 1-619-295-5900 OR CESAR CHAVEZ PKWY OPOC 036-30 USDOT 661795 — REF-X1 (CESAR)

REPORT EMERGENCY CALL 1-619-295-5900 OR SCHLEY ST OPOC 036-30 X-1900 USDOT 661800 — REF-X1 (SCHLEY)

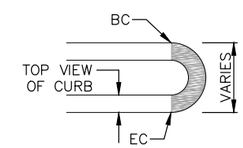
REPORT PROBLEM OR EMERGENCY 1-800-532-5450 X-1900 USDOT 661800 — REF-X1 (X-ING 1)

REPORT PROBLEM OR EMERGENCY 1-800-532-5450 X-1900 USDOT 661800 — REF-X1 (X-ING 2)

REPORT EMERGENCY CALL 1-619-295-5900 OR 28TH ST OPOC 036-30 USDOT 661807 — REF-X1 (28TH)

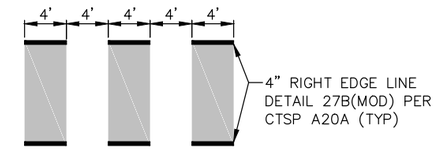
REPORT EMERGENCY CALL 1-619-295-5900 OR 32ND ST OPOC 036-30 USDOT 661807 — REF-X1 (32ND)

YELLOW TREATED MEDIAN NOSE DETAIL



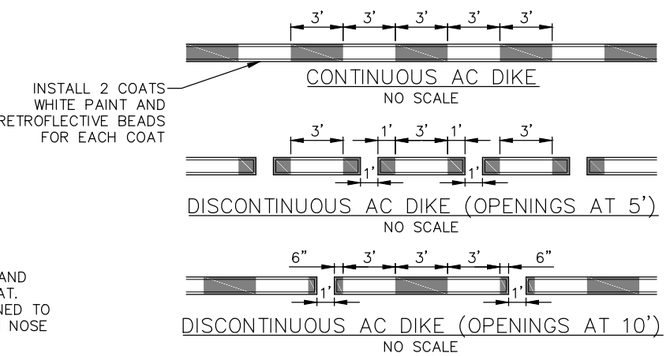
NOTE
1. INSTALL 2 COATS OF YELLOW PAINT AND RETROFLECTIVE BEADS FOR EACH COAT.
2. YELLOW TREATMENT SHALL BE CONFINED TO BETWEEN THE BC AND EC OF MEDIAN NOSE CURVE.

SKIPPED GREEN DRIVEWAY CONFLICT PACKAGE DETAIL

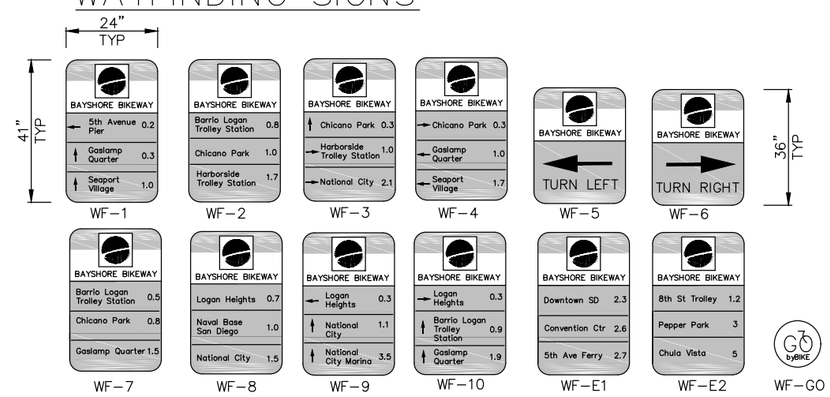


NOTE
1. WIDTH TO MATCH CLASS I BIKE PATH WIDTH.
2. INSTALL 2 COATS OF ENNIS #985206 GREEN PAINT AND RETROREFLECTIVE BEADS FOR EACH COAT. GREEN PAINT SHOULD NOT BE PLACED IN GUTTER PANS WHERE PRESENT.

AC DIKE STRIPING DETAILS



WAYFINDING SIGNS



WF-1 WF-2 WF-3 WF-4 WF-5 WF-6

WF-7 WF-8 WF-9 WF-10 WF-E1 WF-E2 WF-GO

PUBLIC CONTRACT

0 1/2 1

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QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER — ALEC E. RIVERA — No. 87936 — Exp. 12/31/19 — CIVIL — STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

811 Know what's below. Call before you dig.

SIGNING AND STRIPING PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 121 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			

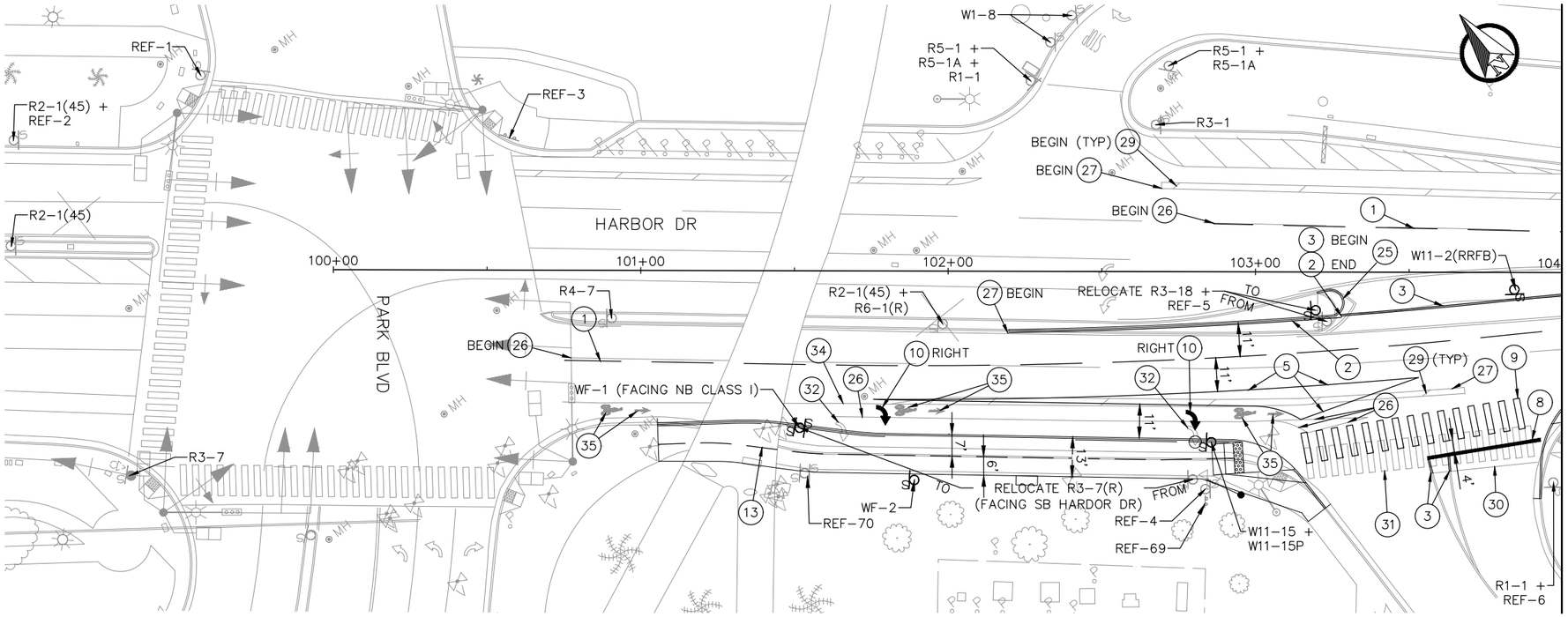
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

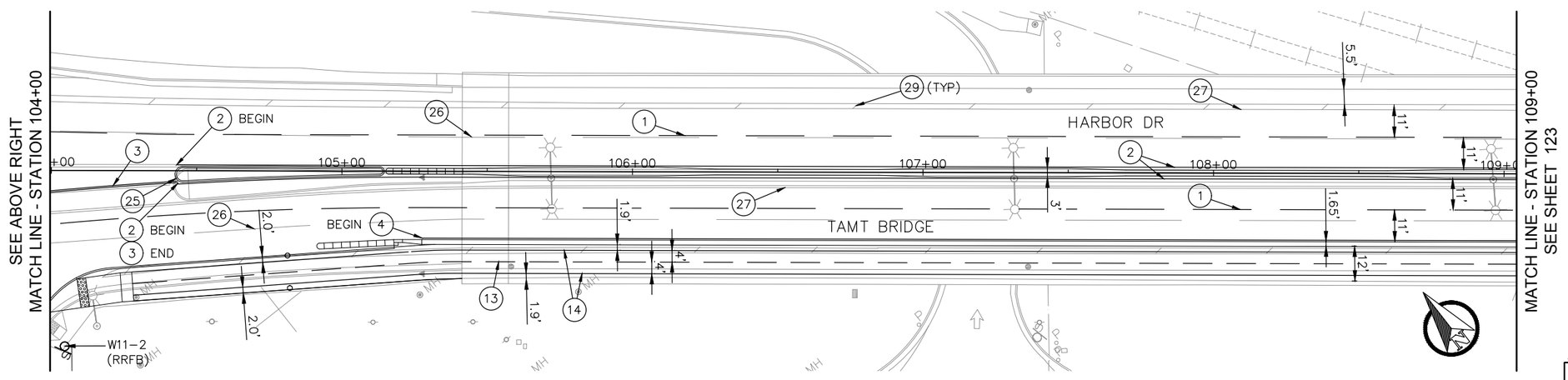
CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370- 121-**D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/6/2019 8:57:05 AM





LEGEND

- EXIST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- EXIST DOUBLE POST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- PROPOSED SIGN LOCATION
- PROPOSED DOUBLE POST SIGN LOCATION

STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
2. LEFT EDGE LINE DETAIL 25 PER CTSP A20B
3. LEFT EDGE LINE DETAIL 27 PER CTSP A20B
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
5. CHANNELIZING LINE DETAIL 38 PER CTSP A20D
8. 12" WIDE WHITE THERMOPLASTIC LIMIT LINE
9. CONTINENTAL CROSSWALK PER SDM-116
10. TYPE IV ARROW PER CTSP A24A
13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
14. 4" RIGHT EDGE LINE DETAIL 27B(MOD) PER CTSP A20B
25. YELLOW TREATED MEDIAN NOSE PER DETAIL, SHEET 121
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
29. REMOVE BUFFER LINE
30. REMOVE LIMIT LINE
31. REMOVE CROSSWALK MARKINGS
32. REMOVE ARROW
34. REMOVE BIKE LANE LINE
35. REMOVE BIKE LANE SYMBOLS

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

SIGNING AND STRIPING FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 122 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 122-**D**

NOT FOR CONSTRUCTION – MAY 6, 2019

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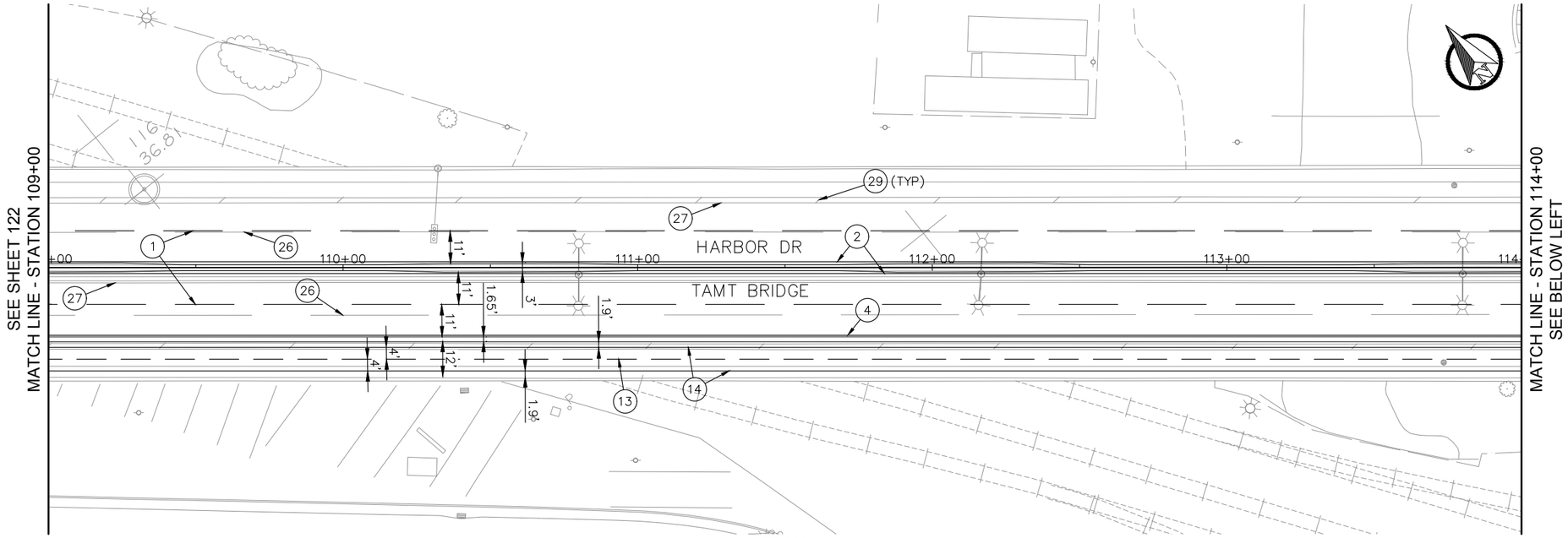
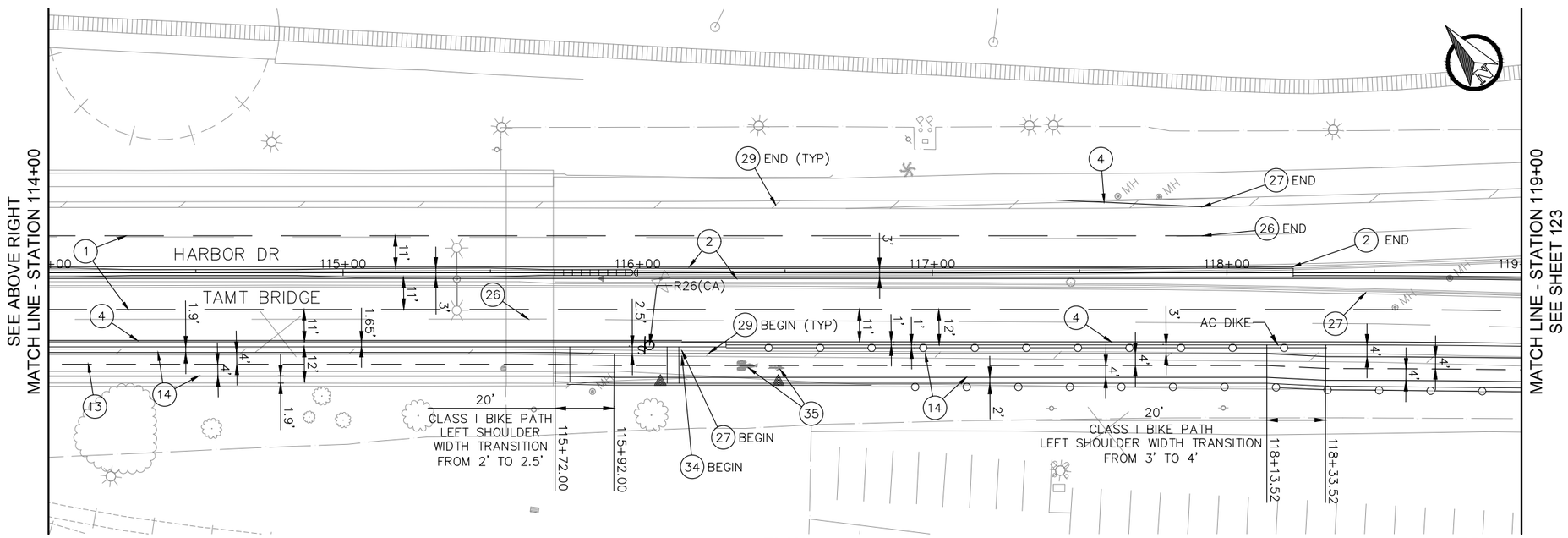


PLAN



PLAN

20 0 20 40 FEET
1"=20'

LEGEND

- EXIST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- EXIST DOUBLE POST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- PROPOSED SIGN LOCATION
- PROPOSED DOUBLE POST SIGN LOCATION

STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
2. LEFT EDGE LINE DETAIL 25 PER CTSP A20B
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
14. 4" RIGHT EDGE LINE DETAIL 27B(MOD) PER CTSP A20B
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
29. REMOVE BUFFER LINE
34. REMOVE BIKE LANE LINE
35. REMOVE BIKE LANE SYMBOLS

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

SIGNING AND STRIPING FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 123 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-123-D

NOT FOR CONSTRUCTION – MAY 6, 2019

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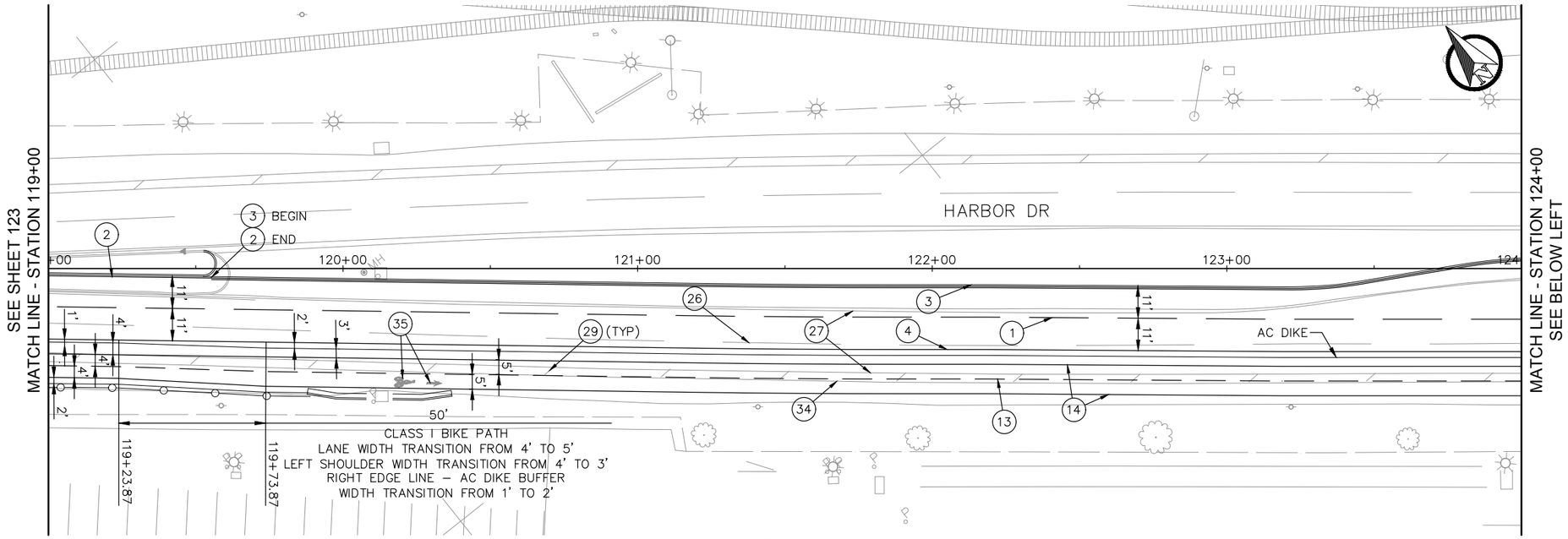
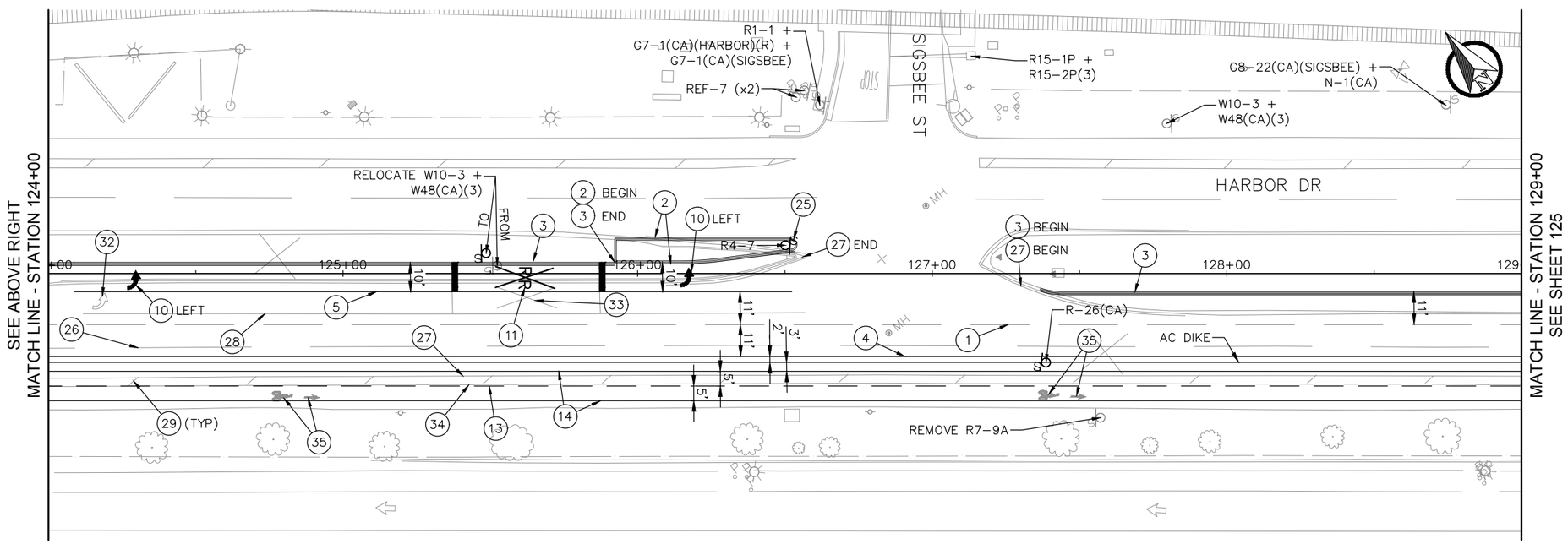


PLAN



PLAN

LEGEND

- EXIST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- EXIST DOUBLE POST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- PROPOSED SIGN LOCATION
- PROPOSED DOUBLE POST SIGN LOCATION

STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
2. LEFT EDGE LINE DETAIL 25 PER CTSP A20B
3. LEFT EDGE LINE DETAIL 27 PER CTSP A20B
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
5. CHANNELIZING LINE DETAIL 38 PER CTSP A20D
10. TYPE IV ARROW PER CTSP A24A
11. RAILROAD CROSSING SYMBOL PER CTSP A24B
13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
14. 4" RIGHT EDGE LINE DETAIL 27B(MOD) PER CTSP A20B
25. YELLOW TREATED MEDIAN NOSE PER DETAIL, SHEET 121
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
28. REMOVE CHANNELIZING LINE
29. REMOVE BUFFER LINE
32. REMOVE ARROW
33. REMOVE RAILROAD CROSSING SYMBOL
34. REMOVE BIKE LANE LINE
35. REMOVE BIKE LANE SYMBOLS

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

SIGNING AND STRIPING FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 124 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR
INSPECTOR
DATE STARTED
DATE COMPLETED

41370- 124-**D**

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

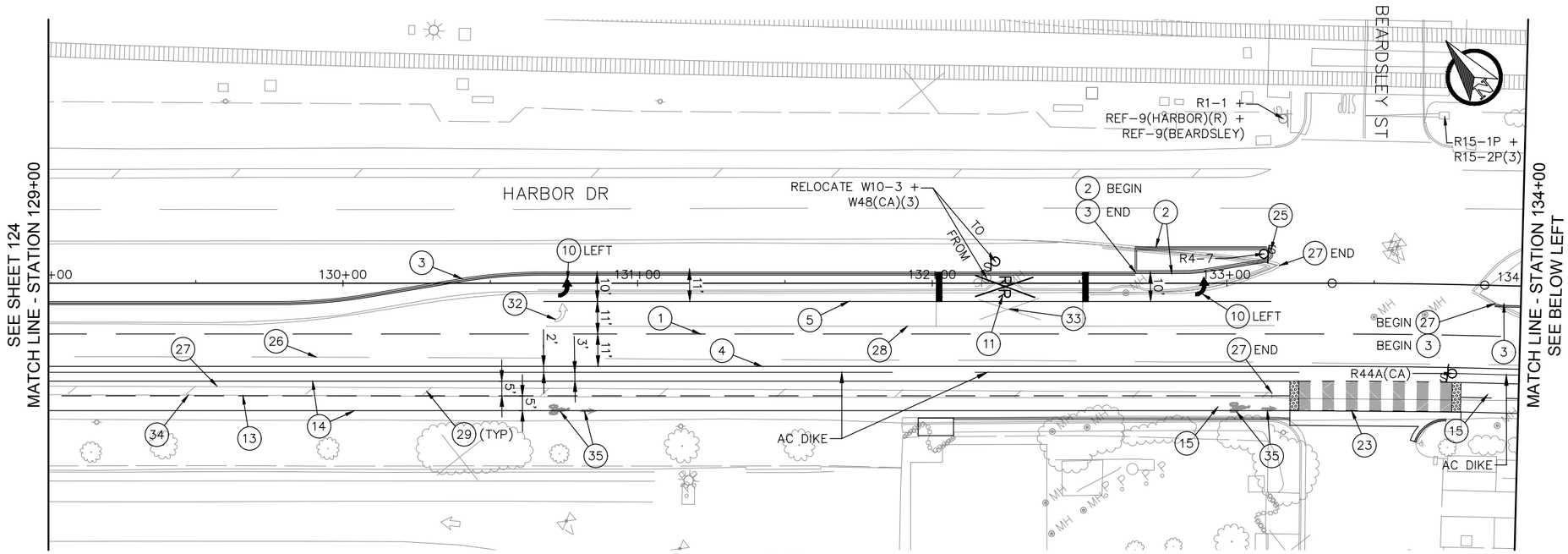
		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

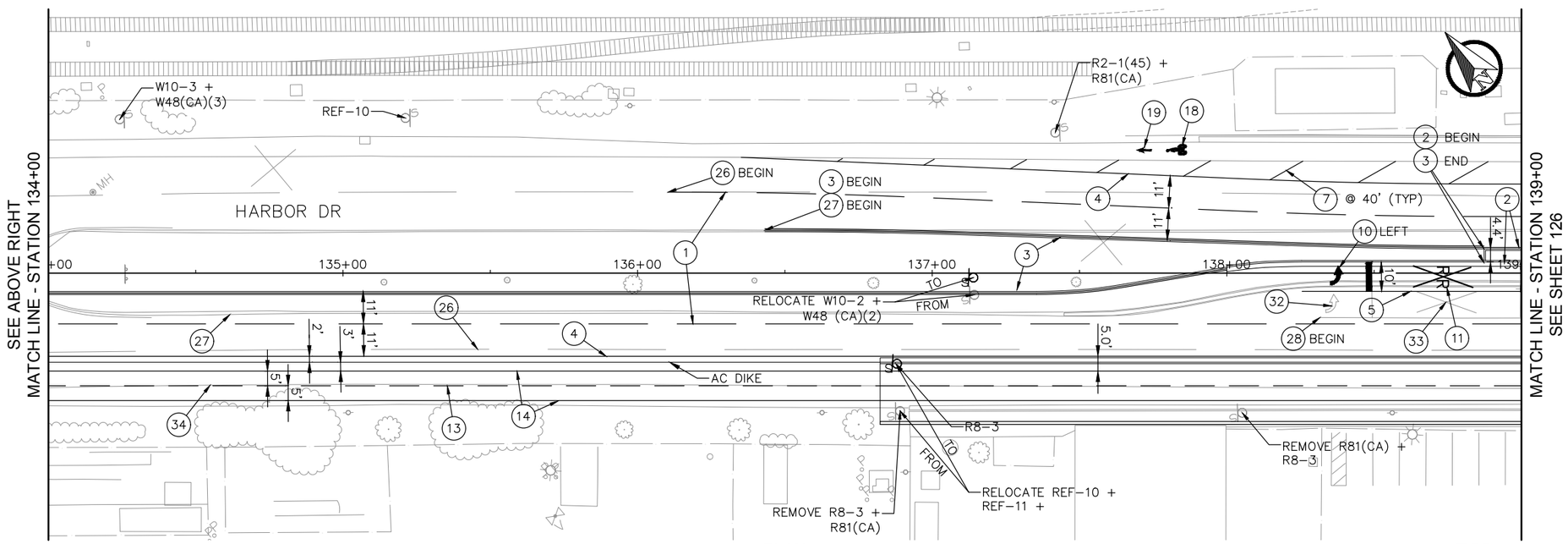
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/6/2019 8:58:16 AM

NOT FOR CONSTRUCTION – MAY 6, 2019



PLAN



PLAN

20 0 20 40 FEET
1"=20'

LEGEND

- EXIST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- EXIST DOUBLE POST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- PROPOSED SIGN LOCATION
- PROPOSED DOUBLE POST SIGN LOCATION

STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
2. LEFT EDGE LINE DETAIL 25 PER CTSP A20B
3. LEFT EDGE LINE DETAIL 27 PER CTSP A20B
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
5. CHANNELIZING LINE DETAIL 38 PER CTSP A20D
7. 4" WIDE WHITE STRIPE
10. TYPE IV ARROW PER CTSP A24A
11. RAILROAD CROSSING SYMBOL PER CTSP A24B
13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
14. 4" RIGHT EDGE LINE DETAIL 27B(MOD) PER CTSP A20B
18. BIKE LANE SYMBOL WITH PERSON PER CTSP A24C
19. BIKE LANE ARROW PER CTSP A24A
23. SKIPPED GREEN DRIVEWAY CONFLICT PACKAGE PER DETAIL, SHEET 121
25. YELLOW TREATED MEDIAN NOSE PER DETAIL, SHEET 121
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
28. REMOVE CHANNELIZING LINE
29. REMOVE BUFFER LINE
32. REMOVE ARROW
33. REMOVE RAILROAD CROSSING SYMBOL
34. REMOVE BIKE LANE LINE
35. REMOVE BIKE LANE SYMBOLS

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

SIGNING AND STRIPING FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 125 OF 187 SHEETS

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

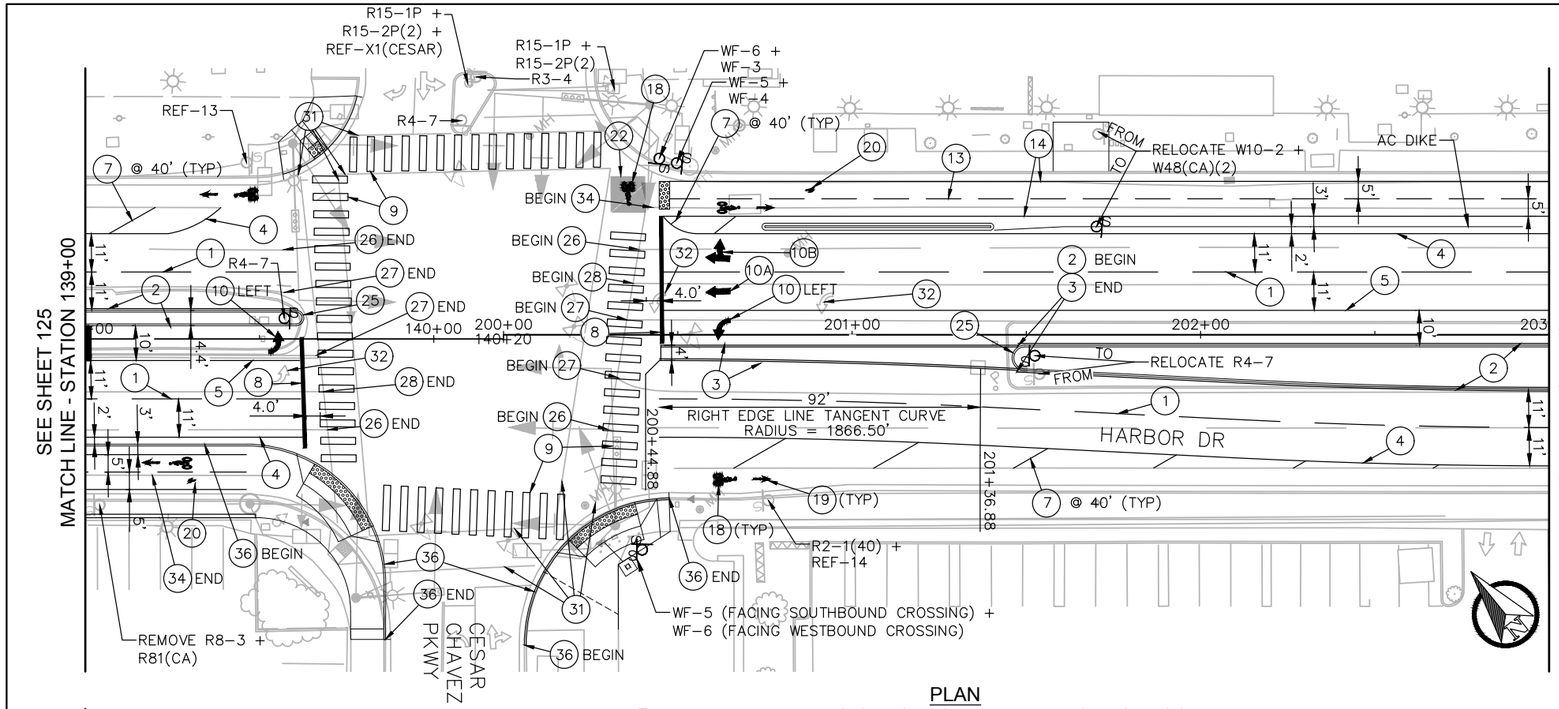
PROJECT NO. _____
V.T.M. _____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

41370- 125-D

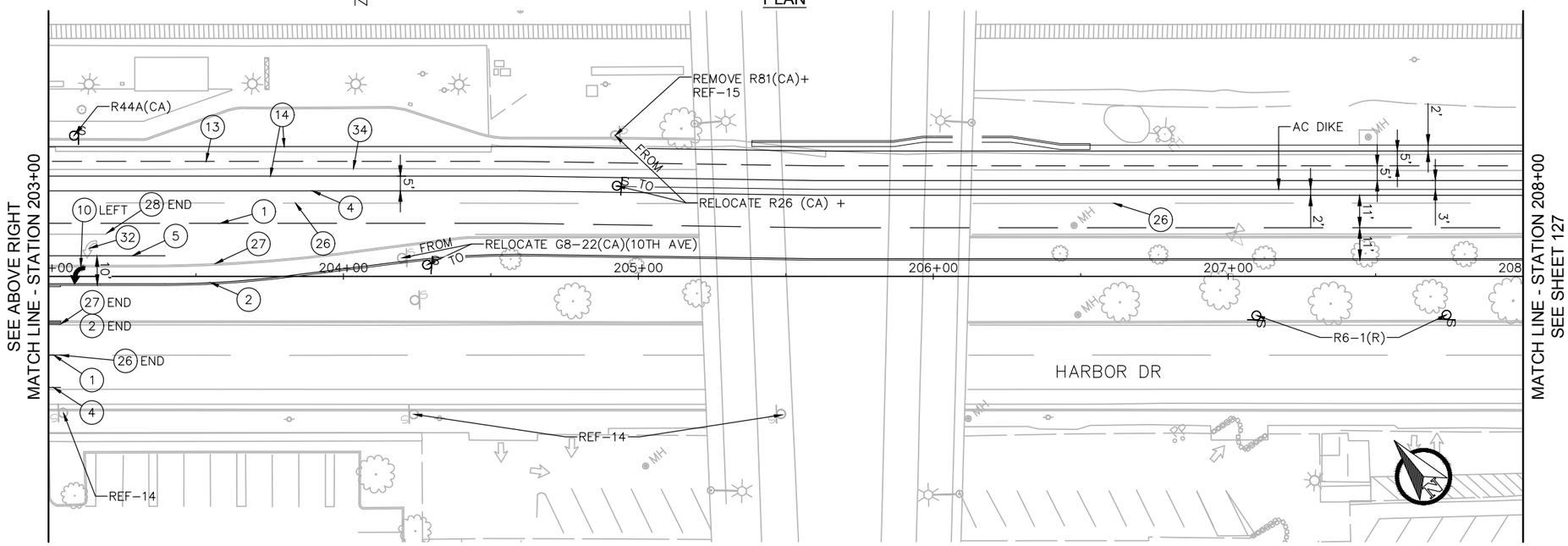
811 Know what's below. Call before you dig.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 1:19:18 PM



PLAN



PLAN

20 0 20 40 FEET
1"=20'

LEGEND

- EXIST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- EXIST DOUBLE POST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- PROPOSED SIGN LOCATION
- PROPOSED DOUBLE POST SIGN LOCATION

STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
2. LEFT EDGE LINE DETAIL 25 PER CTSP A20B
3. LEFT EDGE LINE DETAIL 27 PER CTSP A20B
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
5. CHANNELIZING LINE DETAIL 38 PER CTSP A20D
7. 4" WIDE WHITE STRIPE
8. 12" WIDE WHITE THERMOPLASTIC LIMIT LINE
9. CONTINENTAL CROSSWALK PER SDM-116
10. TYPE IV ARROW PER CTSP A24A
10A. TYPE I 10'-0" ARROW PER CTSP A24A
10B. TYPE VII (R) ARROW PER CTSP A24A
13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
14. 4" RIGHT EDGE LINE DETAIL 27B(MOD) PER CTSP A20B
18. BIKE LANE SYMBOL WITH PERSON PER CTSP A24C
19. BIKE LANE ARROW PER CTSP A24A
20. BICYCLE LOOP DETECTOR SYMBOL PER CTSP A24C
22. GREEN TREATED PAVEMENT
25. YELLOW TREATED MEDIAN NOSE PER DETAIL, SEE SHEET 121
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
28. REMOVE CHANNELIZING LINE
31. REMOVE CROSSWALK MARKINGS
32. REMOVE ARROW
34. REMOVE BIKE LANE LINE
36. RED TREATED CURB

PUBLIC CONTRACT

SIGNING AND STRIPING FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 126 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- 126-D

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

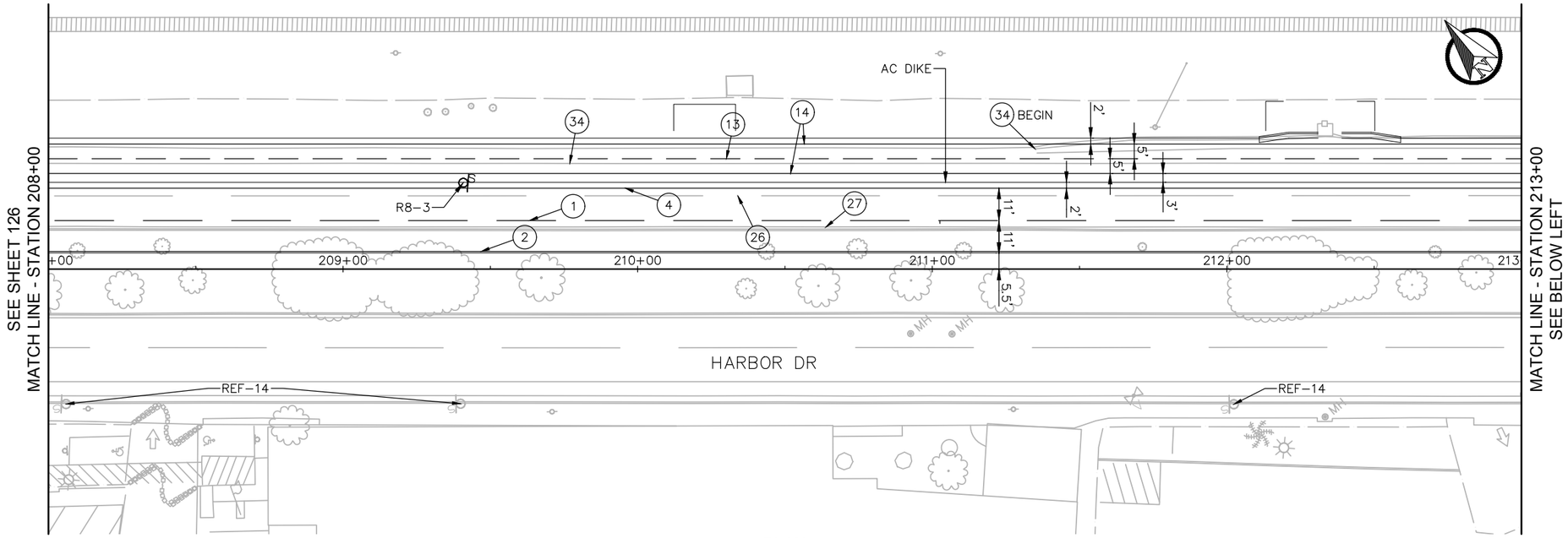
REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

	DATE
DESIGNED BY A. RIVERA	5/19
DRAWN BY A. RAMIREZ	5/19
CHECKED BY K. BRADBURY	5/19
SANDAG PRJ MGR E. RODRIGUEZ	5/19

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/6/2019 9:28:37 AM



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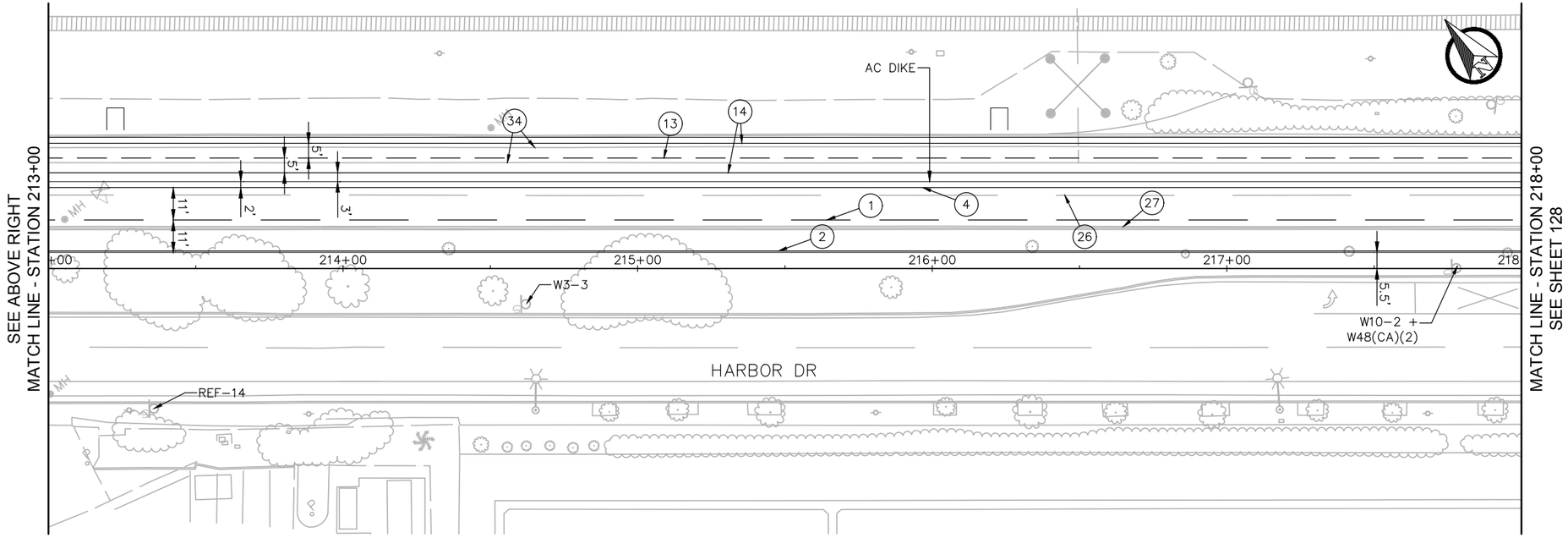

PLAN

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STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
2. LEFT EDGE LINE DETAIL 25 PER CTSP A20B
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
14. 4" RIGHT EDGE LINE DETAIL 27B(MOD) PER CTSP A20B
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
34. REMOVE BIKE LANE LINE

PUBLIC CONTRACT

SIGNING AND STRIPING FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 127 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-127-**D**

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

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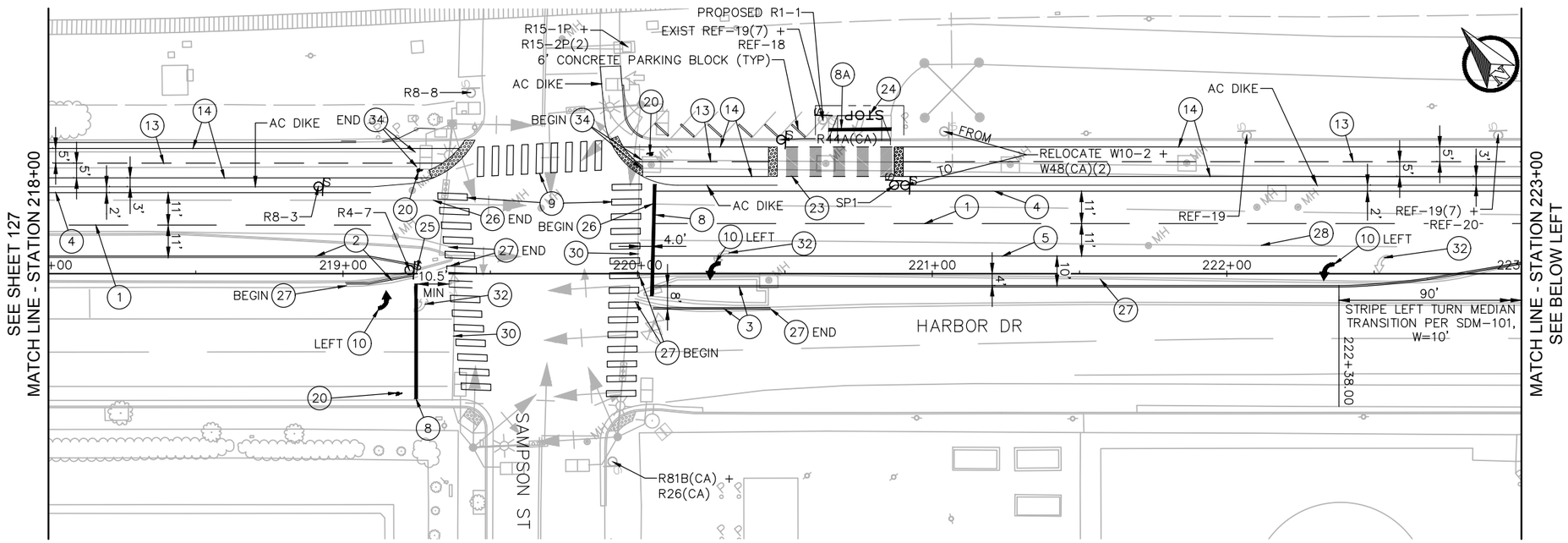

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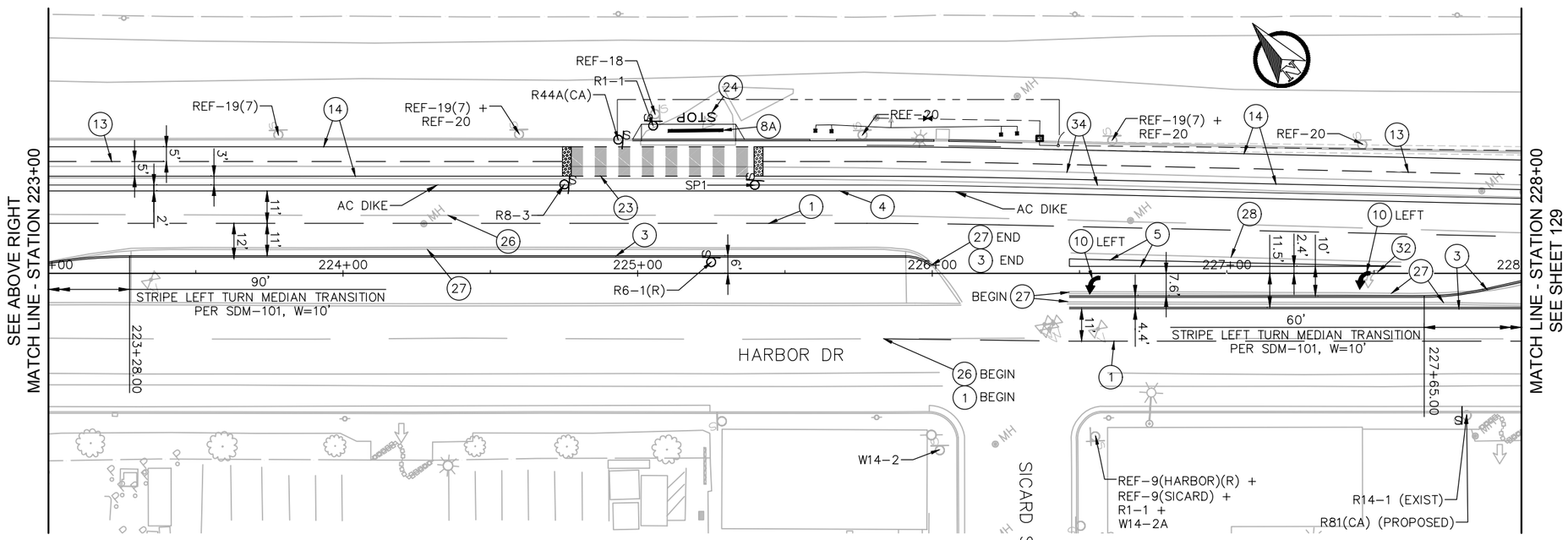

PLAN

20 0 20 40 FEET
1"=20'

LEGEND

- EXIST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- EXIST DOUBLE POST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- PROPOSED SIGN LOCATION
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STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
2. LEFT EDGE LINE DETAIL 25 PER CTSP A20B
3. LEFT EDGE LINE DETAIL 27 PER CTSP A20B
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
5. CHANNELIZING LINE DETAIL 38 PER CTSP A20D
8. 12" WHITE THERMOPLASTIC LIMIT LINE
8A. LIMIT LINE PER CTSP A24G
9. CONTINENTAL CROSSWALK PER SDM-116
10. TYPE IV ARROW PER CTSP A24A
13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
14. 4" RIGHT EDGE LINE DETAIL 27B(MOD) PER CTSP A20B
20. BICYCLE LOOP DETECTOR SYMBOL PER CTSP A24C
23. SKIPPED GREEN DRIVEWAY CONFLICT PACKAGE PER DETAIL
24. STOP PAVEMENT MARKING PER CTSP A24D
25. YELLOW TREATED MEDIAN NOSE PER DETAIL, SHEET 121
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
28. REMOVE CHANNELIZING LINE
30. REMOVE LIMIT LINE
32. REMOVE ARROW
34. REMOVE BIKE LANE LINE

PUBLIC CONTRACT

SIGNING AND STRIPING FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 128 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-128-D

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La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER — ALEC E. RIVERA — No. 87936 — Exp. 12/31/19 — CIVIL — STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

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CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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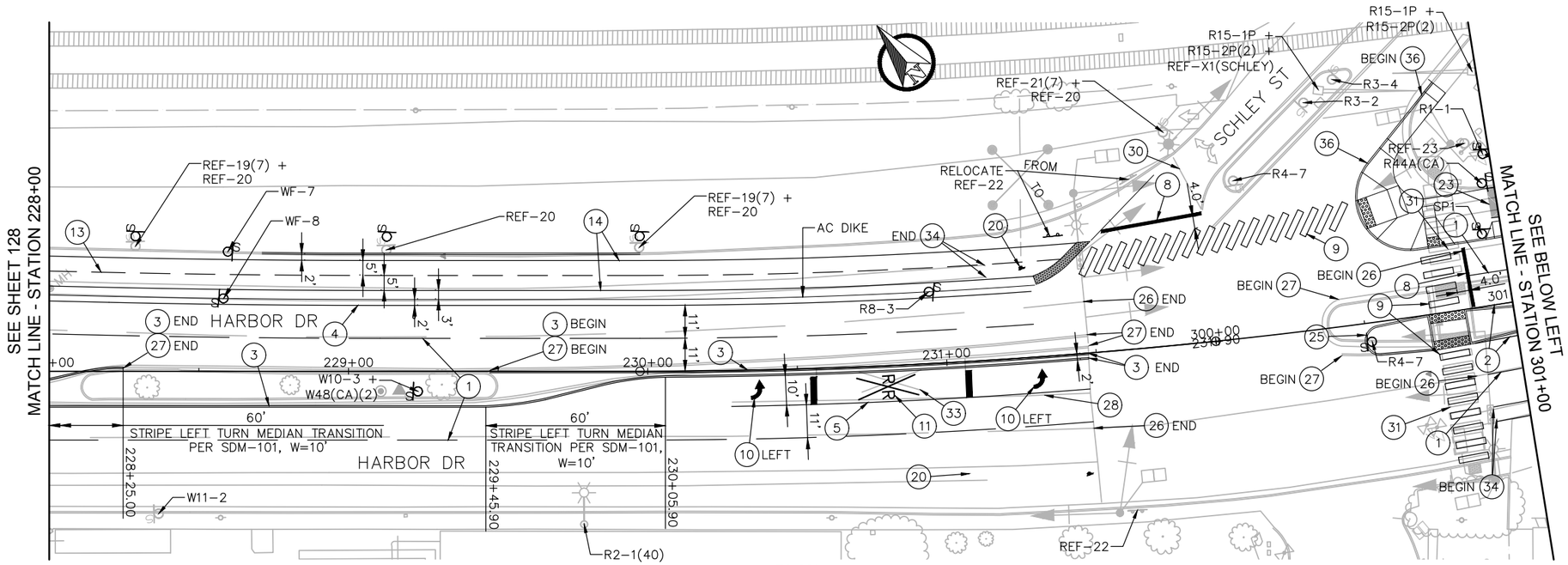
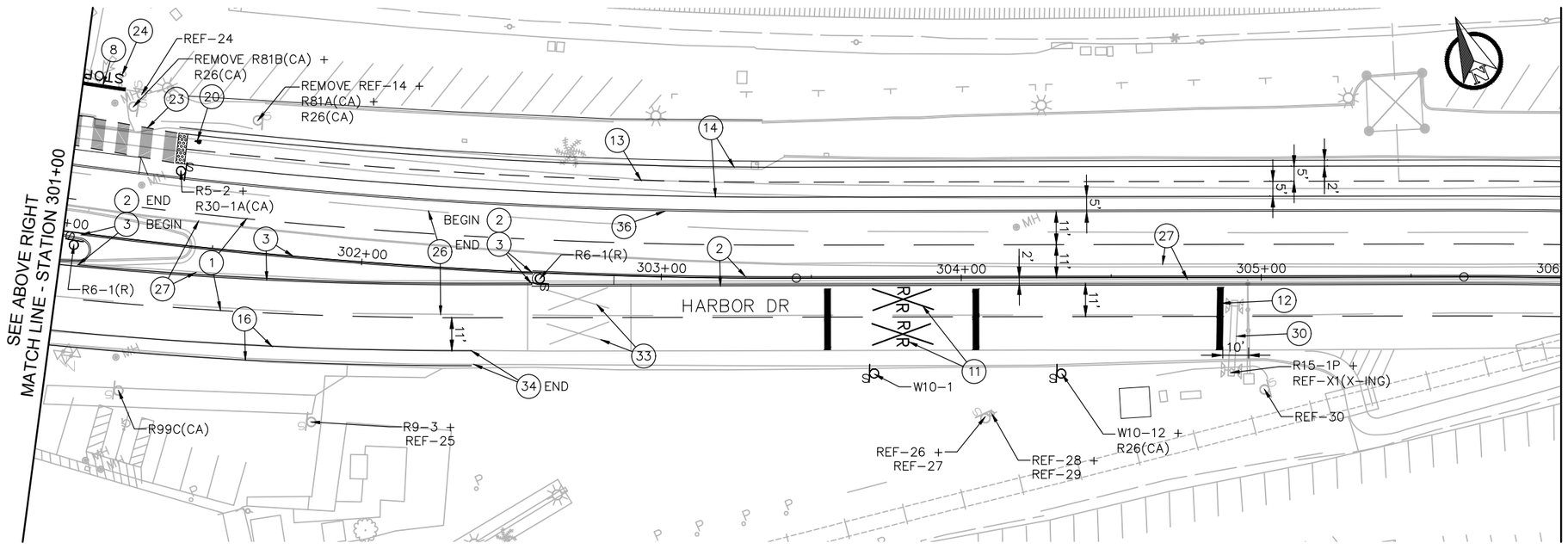
5/5/2019 1:28:41 PM



PLAN



PLAN

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1"=20'

LEGEND

- EXIST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
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STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
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4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
5. CHANNELIZING LINE DETAIL 38 PER CTSP A20D
8. 12" WIDE WHITE THERMOPLASTIC LIMIT LINE
9. CONTINENTAL CROSSWALK PER SDM-116
10. TYPE IV ARROW PER CTSP A24A
11. RAILROAD CROSSING SYMBOL PER CTSP A24B
12. 2' WIDE WHITE STRIPE PER CA MUTCD FIGURE 8B-6(CA)
13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
14. 4" RIGHT EDGE LINE DETAIL 27B(MOD) PER CTSP A20B
16. BIKE LANE LINE DETAIL 39 PER CTSP A20D
20. BICYCLE LOOP DETECTOR SYMBOL PER CTSP A24C
23. SKIPPED GREEN DRIVEWAY CONFLICT PACKAGE PER DETAIL, SHEET 121
24. STOP PAVEMENT MARKING PER CTSP A24D
25. YELLOW TREATED MEDIAN NOSE PER DETAIL, SHEET 121
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
28. REMOVE CHANNELIZING LINE
30. REMOVE LIMIT LINE
31. REMOVE CROSSWALK MARKINGS
33. REMOVE RAILROAD CROSSING SYMBOL
34. REMOVE BIKE LANE LINE
36. RED TREATED CURB

PUBLIC CONTRACT

SIGNING AND STRIPING FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 129 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 129-D

0 1/2 1
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619-741-9400
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

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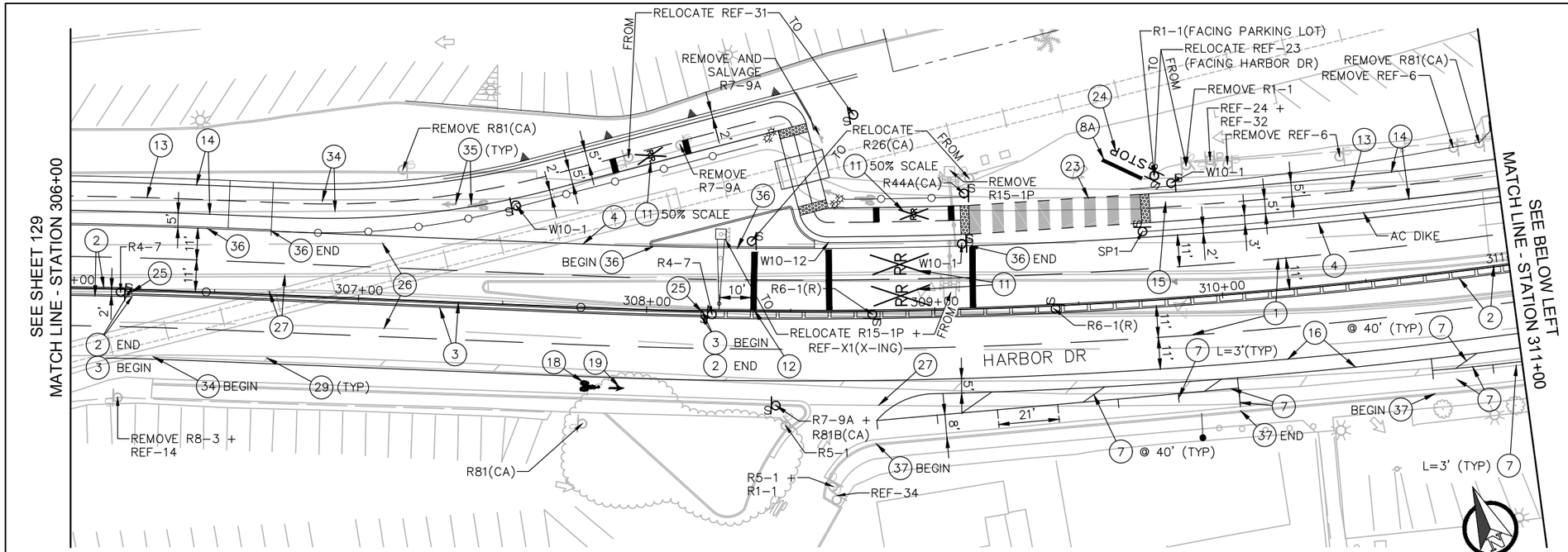
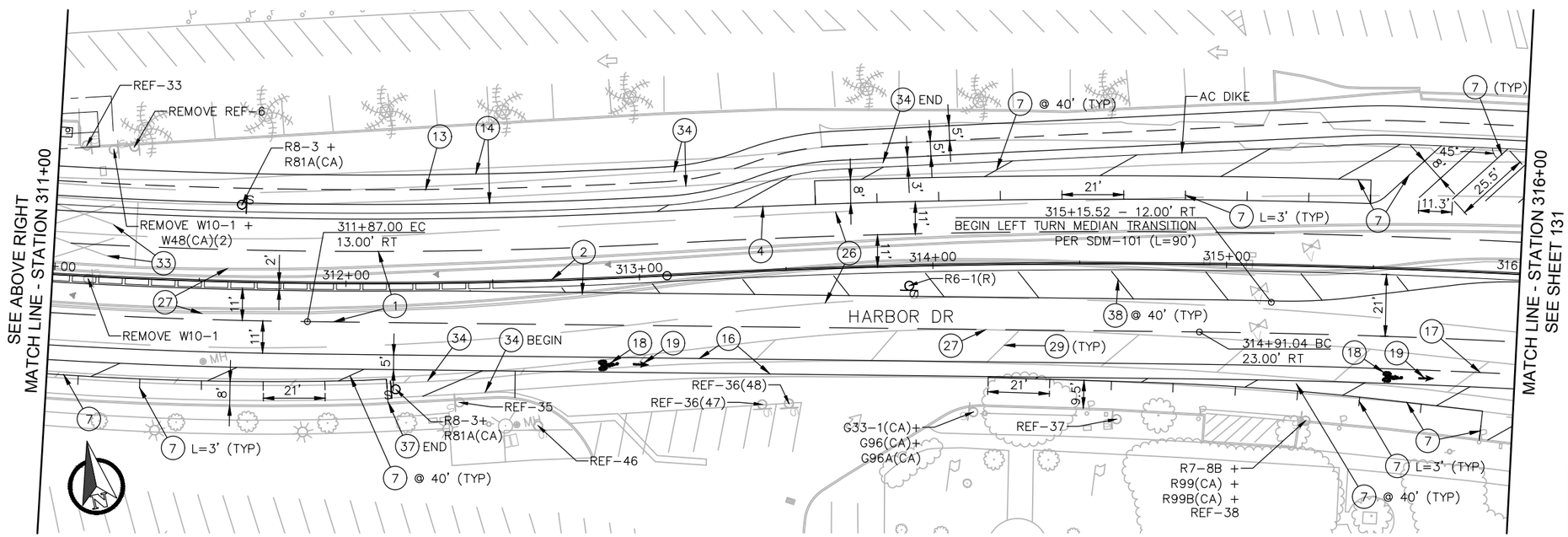


PLAN



PLAN

LEGEND

- EXIST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- EXIST DOUBLE POST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- PROPOSED SIGN LOCATION
- PROPOSED DOUBLE POST SIGN LOCATION

STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
2. LEFT EDGE LINE DETAIL 25 PER CTSP A20B
3. LEFT EDGE LINE DETAIL 27 PER CTSP A20B
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
7. 4" WIDE WHITE STRIPE
8A. LIMIT LINE PER CTSP A24G
11. RAILROAD CROSSING SYMBOL PER CTSP A24B
12. 2' WIDE WHITE STRIPE PER CA MUTCD FIGURE 8B-6(CA)
13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
14. 4" RIGHT EDGE LINE DETAIL 27B(MOD) PER CTSP A20B
16. BIKE LANE LINE DETAIL 39 PER CTSP A20D
17. BIKE LANE LINE DETAIL 39A PER CTSP A20D
18. BIKE LANE SYMBOL WITH PERSON PER CTSP A24C
19. BIKE LANE ARROW PER CTSP A24A
23. SKIPPED GREEN DRIVEWAY CONFLICT PACKAGE PER DETAIL, SHEET 121
24. STOP PAVEMENT MARKING PER CTSP A24D
25. YELLOW TREATED MEDIAN NOSE PER DETAIL, SHEET 121
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
29. REMOVE BUFFER LINE
33. REMOVE RAILROAD CROSSING SYMBOL
34. REMOVE BIKE LANE LINE
35. REMOVE BIKE LANE SYMBOLS
36. RED TREATED CURB
37. REMOVE RED TREATED CURB
38. 4" WIDE YELLOW STRIPE

20 0 20 40 FEET
1"=20'

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0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
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7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

SIGNING AND STRIPING FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 130 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 130-**D**

NOT FOR CONSTRUCTION – MAY 6, 2019

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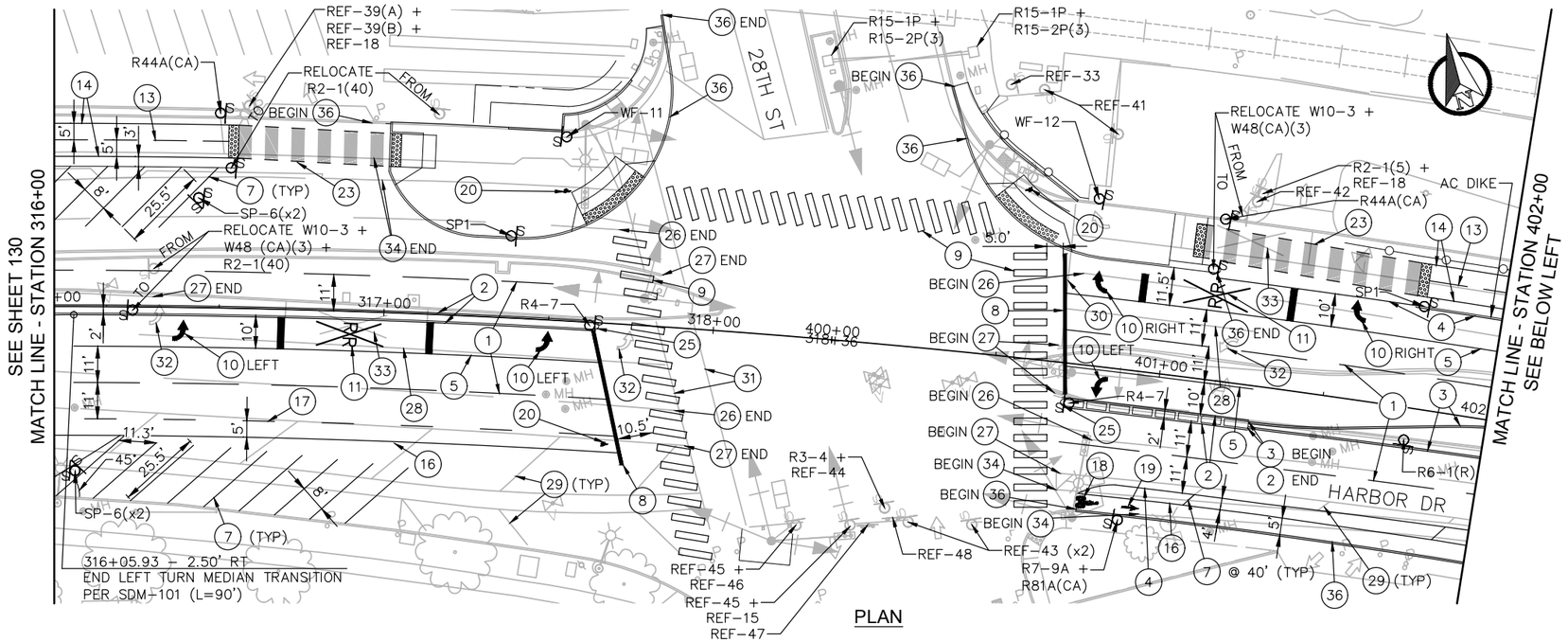
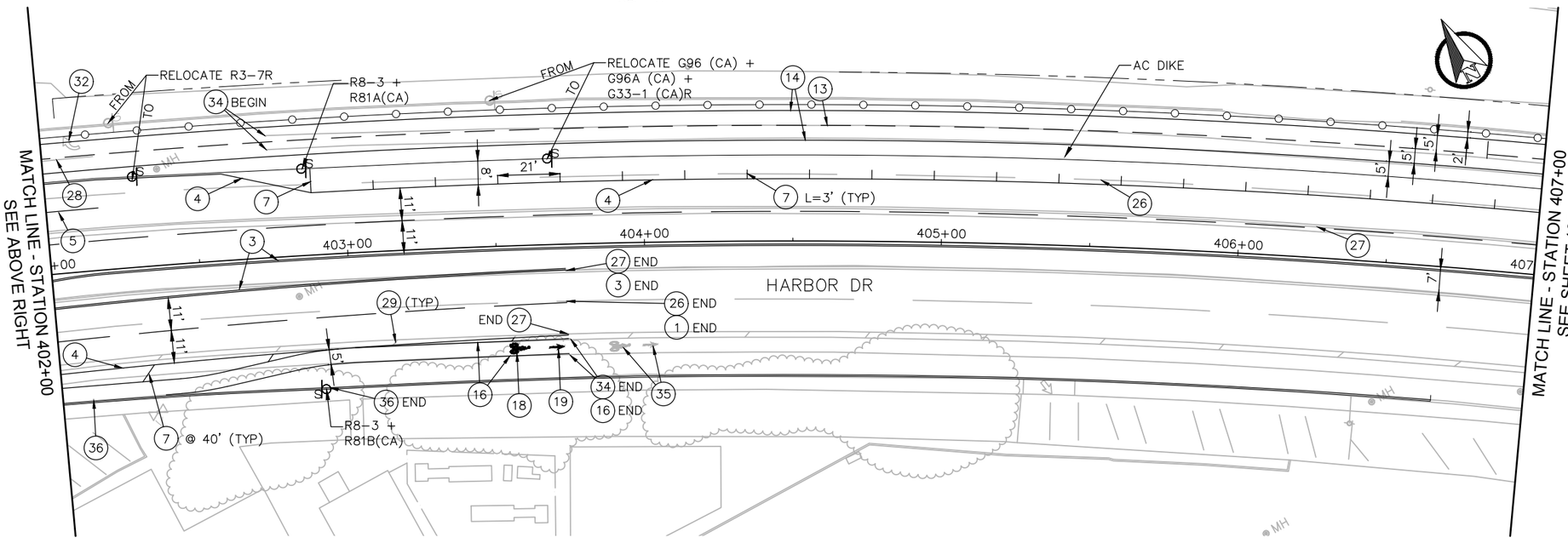


PLAN



PLAN

STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
2. LEFT EDGE LINE DETAIL 25 PER CTSP A20B
3. LEFT EDGE LINE DETAIL 27 PER CTSP A20B
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
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9. CONTINENTAL CROSSWALK PER SDM-116
10. TYPE IV ARROW PER CTSP A24A
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13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
14. 4" RIGHT EDGE LINE DETAIL 27B(MOD) PER CTSP A20B
16. BIKE LANE LINE DETAIL 39 PER CTSP A20D
17. BIKE LANE LINE DETAIL 39A PER CTSP A20D
18. BIKE LANE SYMBOL WITH PERSON PER CTSP A24C
19. BIKE LANE ARROW PER CTSP A24A
20. BICYCLE LOOP DETECTOR SYMBOL PER CTSP A24C
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25. YELLOW TREATED MEDIAN NOSE PER DETAIL, SHEET 121
26. REMOVE LANE LINE
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34. REMOVE BIKE LANE LINE
35. REMOVE BIKE LANE SYMBOLS
36. RED TREATED CURB

LEGEND

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- PROPOSED SIGN LOCATION
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619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY	A. RIVERA	DATE 5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

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CONTRACT NO. –
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PUBLIC CONTRACT

SIGNING AND STRIPING FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 131 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

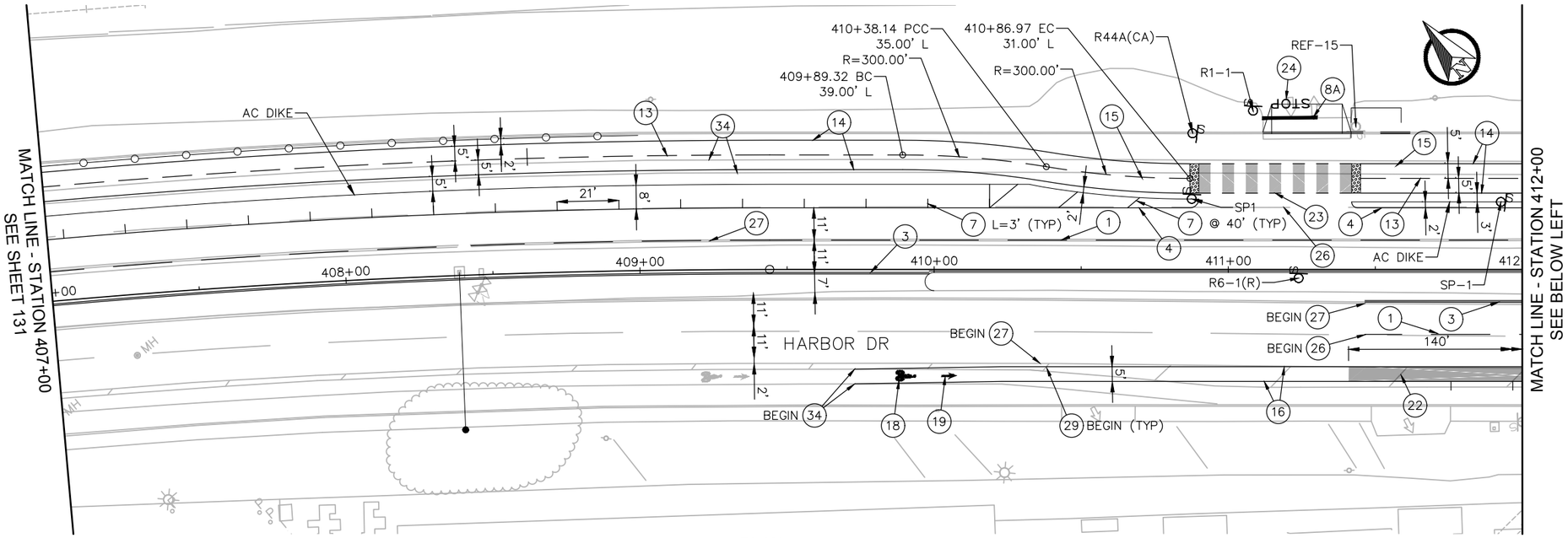
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

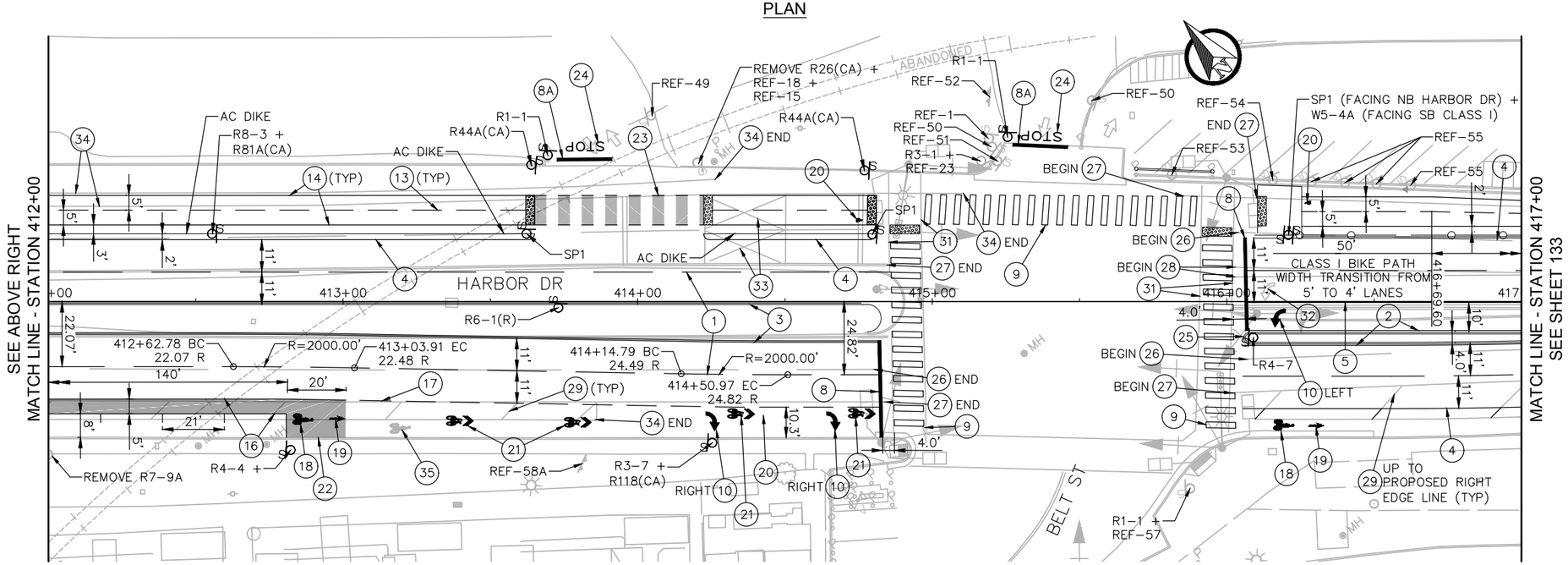
41370- 131-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/6/2019 9:00:06 AM



PLAN



PLAN

STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
2. LEFT EDGE LINE DETAIL 25 PER CTSP A20B
3. LEFT EDGE LINE DETAIL 27 PER CTSP A20B
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
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18. BIKE LANE SYMBOL WITH PERSON PER CTSP A24C
19. BIKE LANE ARROW PER CTSP A24A
20. BICYCLE LOOP DETECTOR SYMBOL PER CTSP A24C
21. SHARED ROADWAY BICYCLE MARKINGS PER CTSP A24C
22. GREEN TREATED PAVEMENT
23. SKIPPED GREEN DRIVEWAY CONFLICT PACKAGE PER DETAIL, SHEET 121
24. STOP PAVEMENT MARKING PER CTSP A24D
25. YELLOW TREATED MEDIAN NOSE PER DETAIL, SHEET 121
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
28. REMOVE CHANNELIZING LINE
29. REMOVE BUFFER LINE
31. REMOVE CROSSWALK MARKINGS
32. REMOVE ARROW
33. REMOVE RAILROAD CROSSING SYMBOL
34. REMOVE BIKE LANE LINE
35. REMOVE BIKE LANE SYMBOLS
36. RED TREATED CURB

LEGEND

- EXIST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- EXIST DOUBLE POST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- PROPOSED SIGN LOCATION
- PROPOSED DOUBLE POST SIGN LOCATION

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

20 0 20 40 FEET
1"=20'

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QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

SIGNING AND STRIPING FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 132 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- 132-**D**

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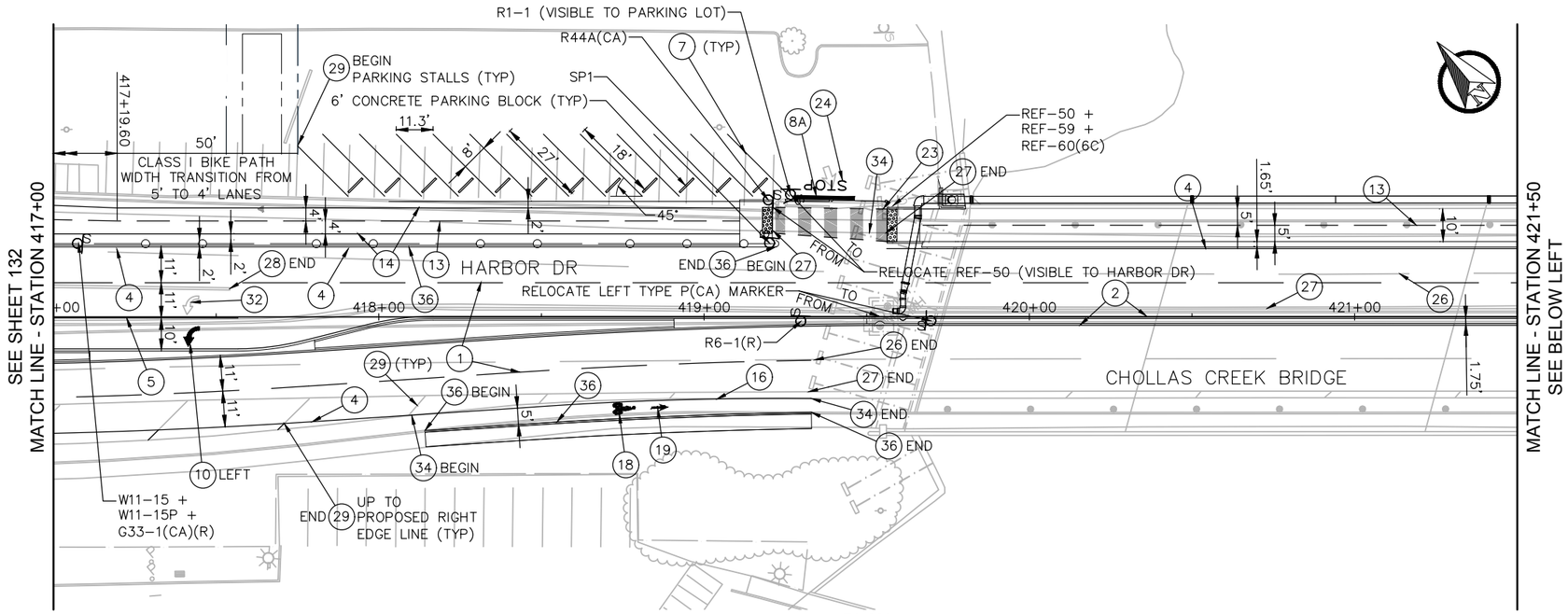
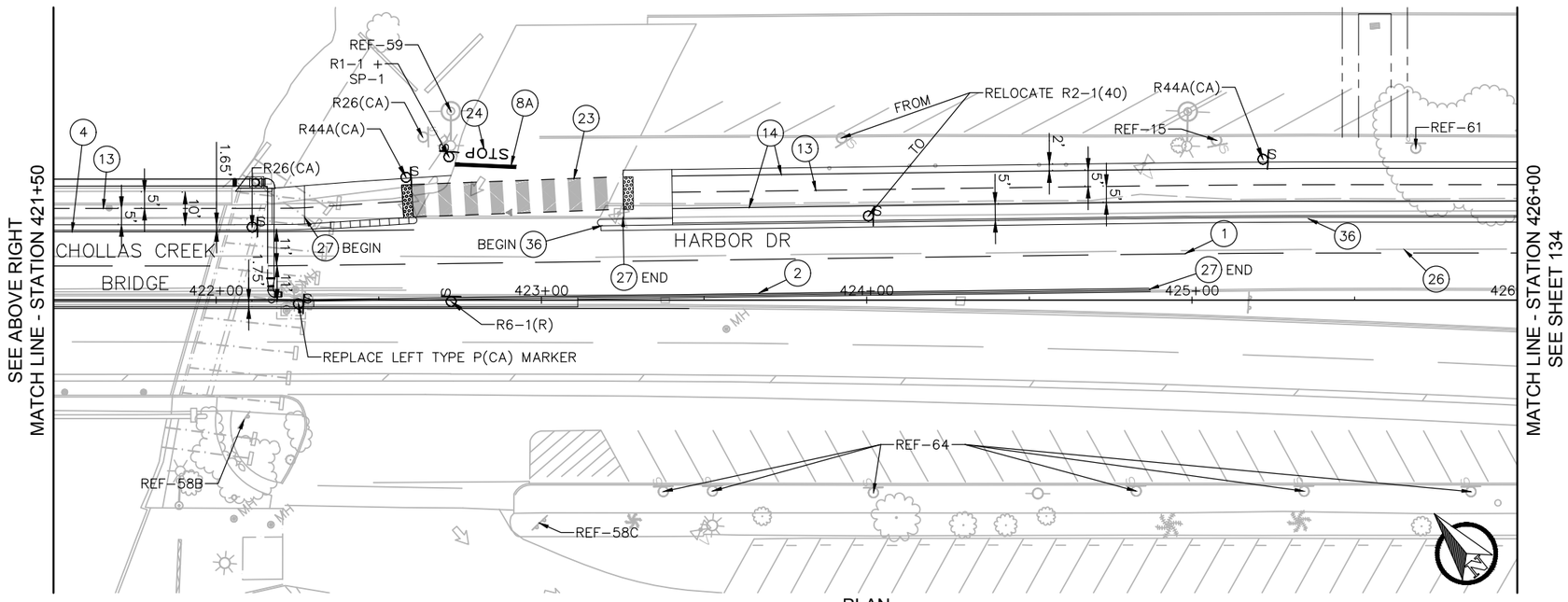


PLAN



PLAN

20 0 20 40 FEET
1"=20'

LEGEND

- EXIST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- EXIST DOUBLE POST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- EXIST TRAFFIC SIGNAL
- PROPOSED SIGN LOCATION
- PROPOSED DOUBLE POST SIGN LOCATION

STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
2. LEFT EDGE LINE DETAIL 25 PER CTSP A20B
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
5. CHANNELIZING LINE DETAIL 38 PER CTSP A20D
7. 4" WIDE WHITE STRIPE
8A. LIMIT LINE PER CTSP A24G
10. TYPE IV ARROW PER CTSP A24A
13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
14. 4" RIGHT EDGE LINE DETAIL 27B(MOD) PER CTSP A20B
16. BIKE LANE LINE DETAIL 39 PER CTSP A20D
18. BIKE LANE SYMBOL WITH PERSON PER CTSP A24C
19. BIKE LANE ARROW PER CTSP A24A
23. SKIPPED GREEN DRIVEWAY CONFLICT PACKAGE PER DETAIL, SHEET 121
24. STOP PAVEMENT MARKINGS PER CTSP A24D
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
28. REMOVE CHANNELIZING LINE
29. REMOVE BUFFER LINE
32. REMOVE ARROW
34. REMOVE BIKE LANE LINE
36. RED TREATED CURB

0 1/2 1
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SIGNING AND STRIPING FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 133 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

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AS-BUILTS				

1834-6287 NAD83 COORDINATES
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41370-133-D

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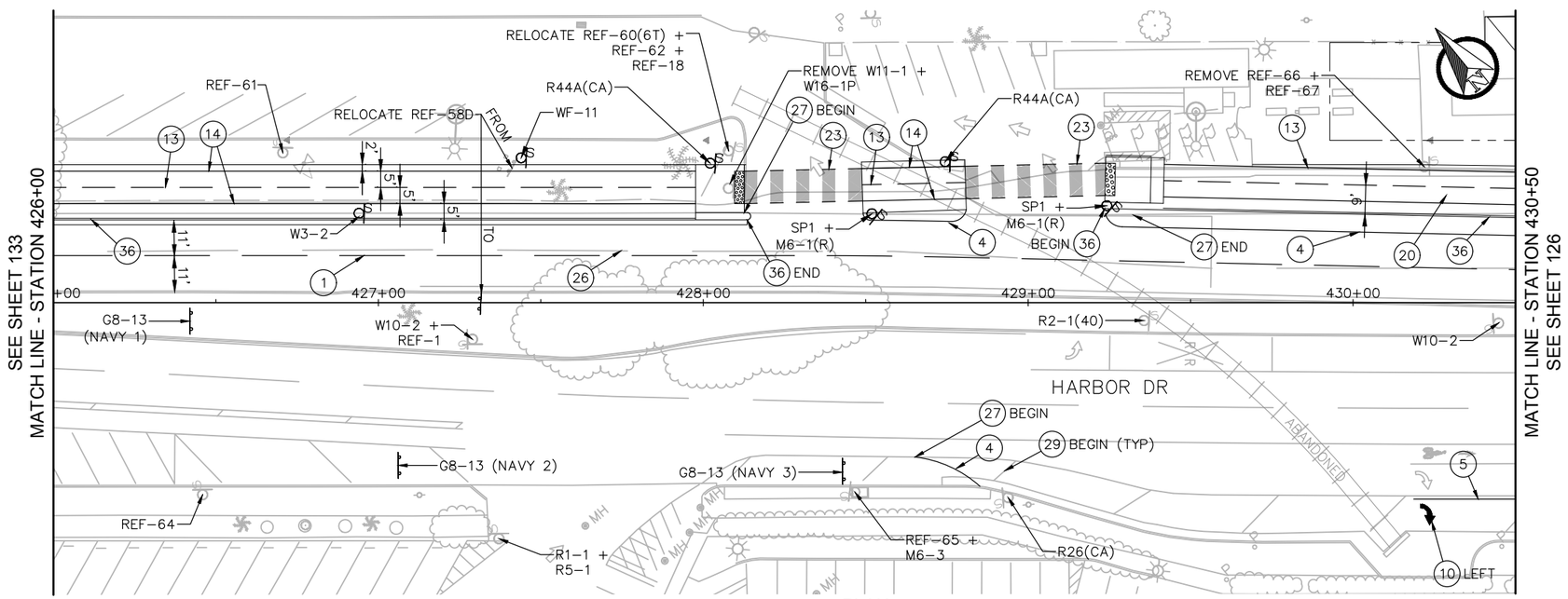
LEGEND

- EXIST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- EXIST DOUBLE POST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- PROPOSED SIGN LOCATION
- PROPOSED DOUBLE POST SIGN LOCATION

STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
5. CHANNELIZING LINE DETAIL 38 PER CTSP A20D
10. TYPE IV ARROW PER CTSP A24A
13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
14. 4" RIGHT EDGE LINE DETAIL 27B(MOD) PER CTSP A20B
20. BICYCLE LOOP DETECTOR SYMBOL PER CTSP A24C
23. SKIPPED GREEN DRIVEWAY CONFLICT PACKAGE PER DETAIL, SHEET 121
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
29. REMOVE BUFFER LINE
36. RED TREATED CURB



PLAN

20 0 20 40 FEET
1"=20'

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0 1/2 1
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BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 134 OF 187 SHEETS

PROJECT NO.
V.T.M.

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DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
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1834-6287 NAD83 COORDINATES
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INSPECTOR ____ DATE COMPLETED ____

41370- 134-D

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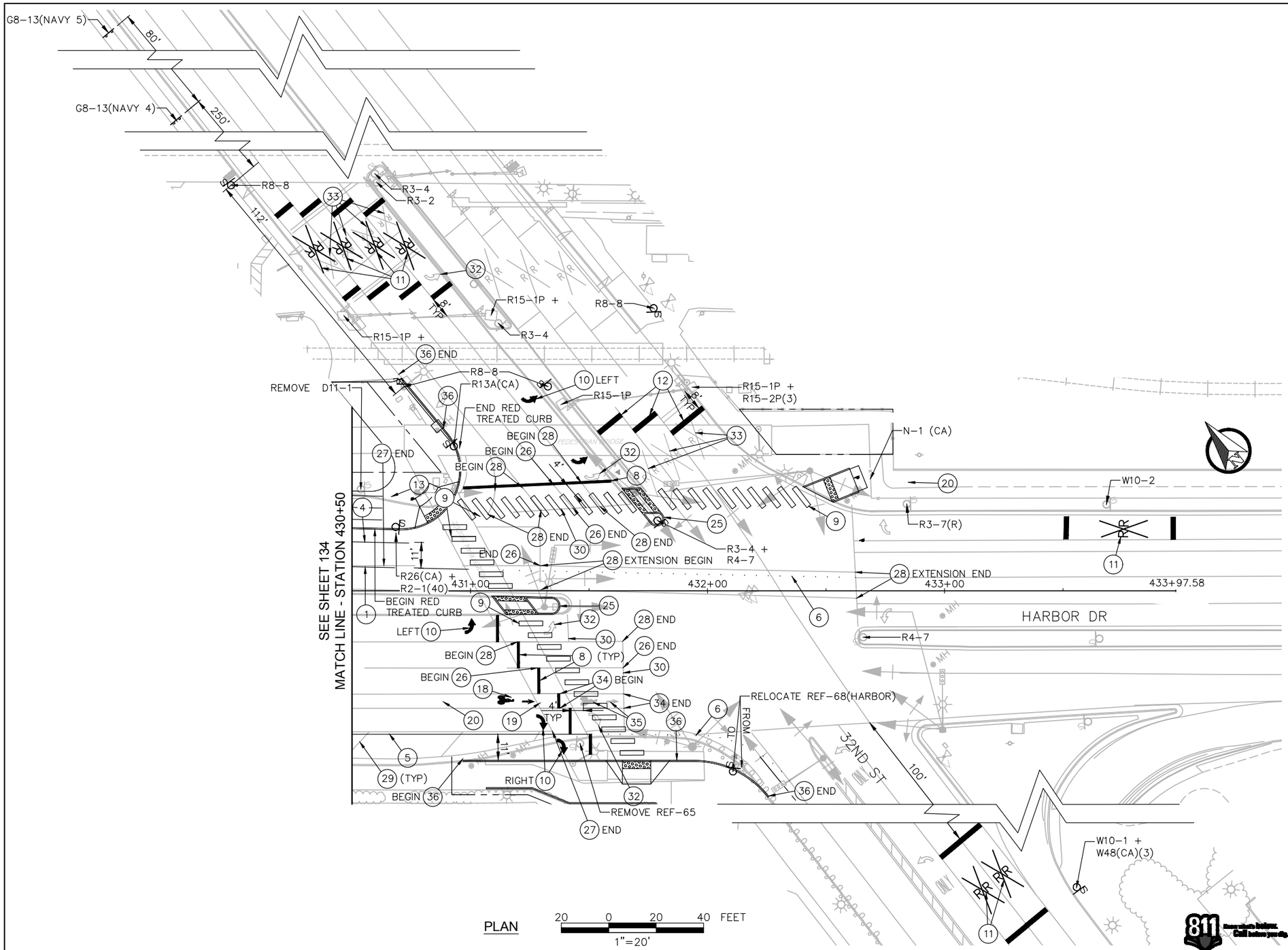

PLAN

20 0 20 40 FEET

1"=20'

LEGEND

- EXIST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- EXIST DOUBLE POST SIGN PROTECT IN PLACE (UNLESS OTHERWISE STATED)
- PROPOSED SIGN LOCATION
- PROPOSED DOUBLE POST SIGN LOCATION

STRIPING NOTES

1. LANE LINE STRIPE DETAIL 12 PER CTSP A20A
4. RIGHT EDGE LINE DETAIL 27B PER CTSP A20B
5. CHANNELIZING LINE DETAIL 38 PER CTSP A20D
6. LANE LINE EXTENSION DETAIL 40 PER CTSP A20D
8. 12" WIDE WHITE THERMOPLASTIC LIMIT LINE
9. CONTINENTAL CROSSWALK PER SDM-116
10. TYPE IV ARROW PER CTSP A24A
11. RAILROAD CROSSING SYMBOL PER CTSP A24B
12. 2' WIDE WHITE STRIPE PER CA MUTCD FIGURE 8B-6(CA)
13. CENTERLINE YELLOW STRIPE DETAIL 1 PER CTSP A20A
18. BIKE LANE SYMBOL WITH PERSON PER CTSP A24C
19. BIKE LANE ARROW PER CTSP A24A
20. BICYCLE LOOP DETECTOR SYMBOL PER CTSP A24C
25. YELLOW TREATED MEDIAN NOSE PER DETAIL, SHEET 121
26. REMOVE LANE LINE
27. REMOVE EDGE LINE
28. REMOVE CHANNELIZING LINE
30. REMOVE LIMIT LINE
32. REMOVE ARROW
33. REMOVE RAILROAD CROSSING SYMBOL
34. REMOVE BIKE LANE LINE
35. REMOVE BIKE LANE SYMBOLS
36. RED TREATED CURB

0 1/2 1

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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

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DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

SIGNING AND STRIPING FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 135 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
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CONTRACTOR DATE STARTED
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41370- 135-D

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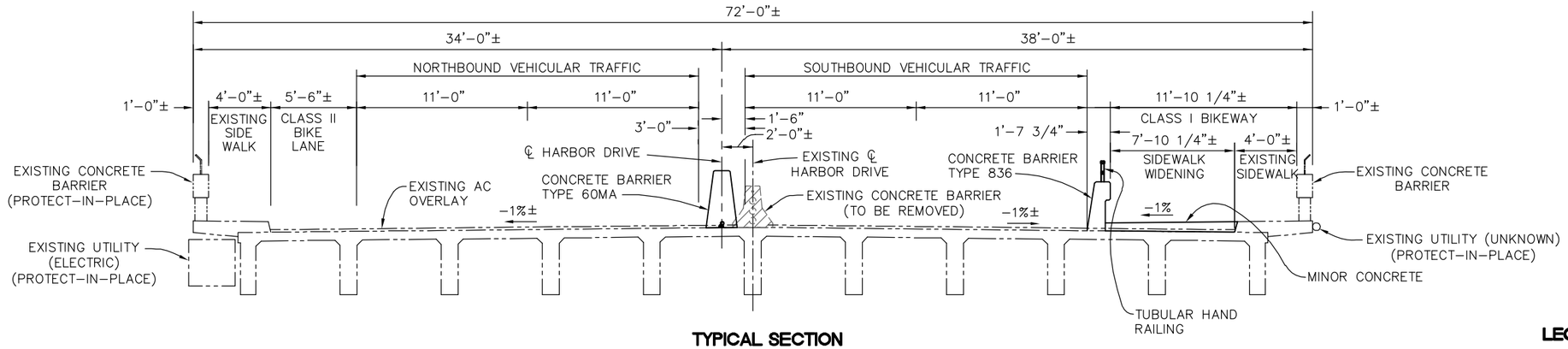
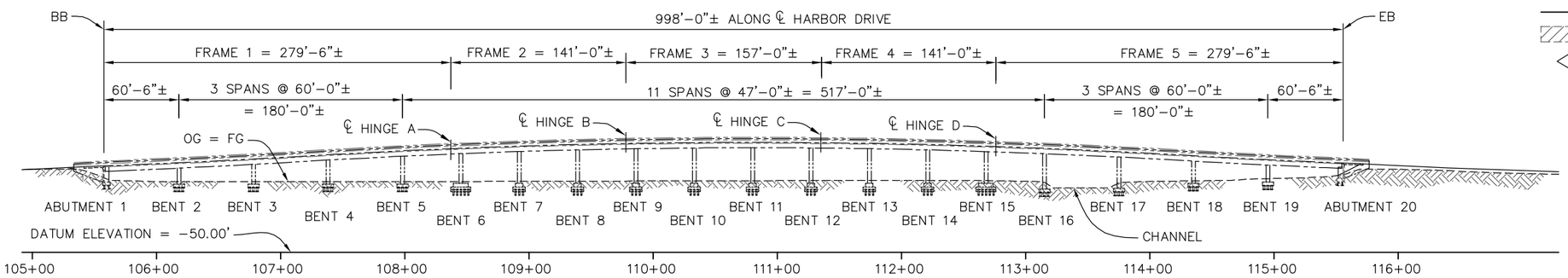


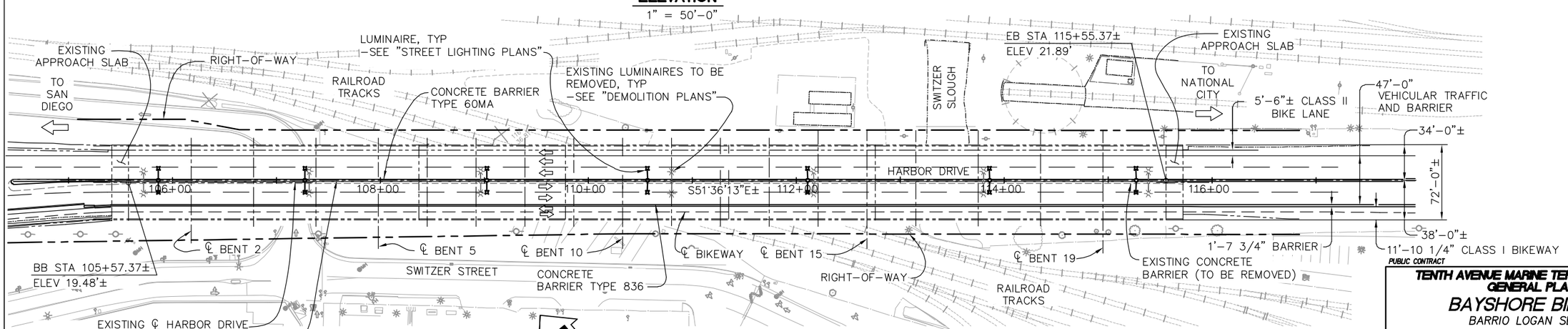
TYPICAL SECTION

1/4" = 1'-0"



ELEVATION

1" = 50'-0"



PLAN

1" = 50'-0"

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES NEW CONSTRUCTION
- INDICATES REMOVAL
- INDICATES DIRECTION OF TRAFFIC

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PUBLIC CONTRACT

TENTH AVENUE MARINE TERMINAL BRIDGE GENERAL PLAN

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
SHEET 136 OF 167 SHEETS

PROJECT NO.

FOR CITY ENGINEER DATE
PRINT NAME RCE#

V.T.M.

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
AS-BUILTS				

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KLEINFELDER
Bright people. Right Solutions.
550 West C Street, Suite 1200 San Diego, CA. 92101
Tel (619) 831-4600

REGISTERED PROFESSIONAL ENGINEER JASON C. SANDERS C83976 CIVIL STATE OF CALIFORNIA

	DATE
DESIGNED BY M. PETROS	05/19
DRAWN BY G. BUELOW	05/19
CHECKED BY K. GAZAWAY	05/19
SANDAG PRJ MGR E. RODRIGUEZ	

SANDAG

SCALE: AS SHOWN
CONTRACT NO.
DRAWING NO.
SHEET NO.

NOT FOR CONSTRUCTION - MAY 6, 2019

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	GENERAL NOTES
3	DECK DETAILS NO. 1
4	DECK DETAILS NO. 2
5	CONCRETE BARRIER TYPE 60MA DETAILS
6	CONCRETE BARRIER TYPE 60R DETAILS NO. 1
7	CONCRETE BARRIER TYPE 60R DETAILS NO. 2
8	ELECTRICAL MOUNTING DETAILS

PLAN SYMBOLS

A — SECTION IDENTIFICATION

CALTRANS STANDARD PLAN SHEET NO.

DETAIL NO.

CALTRANS STANDARD PLANS DATED 2018

	A3A	ABBREVIATIONS (SHEET 1 OF 3)
	A3B	ABBREVIATIONS (SHEET 2 OF 3)
	A3C	ABBREVIATIONS (SHEET 3 OF 3)
	A76A	CONCRETE BARRIER TYPE 60M
	B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
	B11-51	TUBULAR HAND RAILING
RSP	B11-80	CONCRETE BARRIER TYPE 836
	ES-6B	ELECTRICAL SYSTEMS (ELECTROLIER ANCHORAGE AND GROUTING FOR TYPES 15 AND 21, BARRIER RAIL MOUNTED)
RSP	ES-9C	ELECTRICAL SYSTEMS (STRUCTURE PULL BOX)

GENERAL NOTES

DESIGN: CHECK OF EXISTING COMPONENTS:
CALTRANS BRIDGE DESIGN SPECIFICATIONS, APRIL 2000 (LFD)

DESIGN OF NEW COMPONENTS:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2012 (6TH EDITION)
WITH CALIFORNIA AMENDMENTS DATED MARCH 2014

STRUCTURAL CONCRETE: f'c = 3.6 ksi
fy = 60 ksi
n = 8

STRUCTURAL STEEL: ASTM A36 (UNLESS OTHERWISE NOTED)

ANCHOR RODS: ASTM A307, GRADE C GALVANIZED

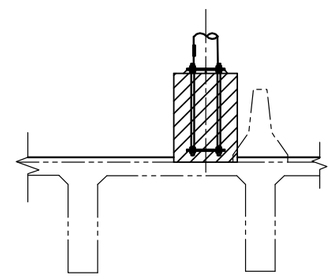
SPECIFICATIONS

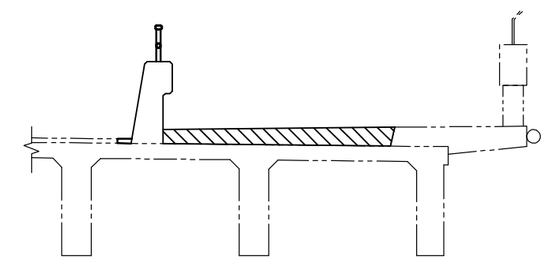
STANDARD SPECIFICATIONS DATED JUNE 2018, STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION

QUANTITIES

ITEM	QTY
STRUCTURAL CONCRETE, BRIDGE	5 CY
MINOR CONCRETE	185 CY
DRILL AND BOND DOWEL	620 LF
JOINT SEAL (TYPE A)	90 LF
BAR REINFORCING STEEL (BRIDGE)	17,068 LB
REMOVE ASPHALT CONCRETE SURFACING	13,331 SQ FT
HOT MIX ASPHALT (TYPE A)	60 TON
PREPARE CONCRETE BRIDGE DECK SURFACE	14,361 SQ FT
MISCELLANEOUS METAL	512 LB
TUBULAR HAND RAILING	1,030 LF
CONCRETE BARRIER (TYPE 60MA)	1,030 LF
CONCRETE BARRIER (TYPE 836)	1,030 LF
REMOVE CONCRETE BARRIER	1,030 LF

NOTE: MINOR CONCRETE DOES NOT INCLUDE PAYMENT FOR BAR REINFORCING STEEL.





LEGEND:

STRUCTURAL CONCRETE, BRIDGE (f'c = 3.6 ksi)

MINOR CONCRETE

CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

811 Know what's below. Call before you dig.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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550 West C Street, Suite 1200 San Diego, CA. 92101
Tel (619) 831-4600

REGISTERED PROFESSIONAL ENGINEER JASON C. SANDERS C83976 CIVIL STATE OF CALIFORNIA

		DATE
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CHECKED BY	K. GAZAWAY	05/19
SANDAG PRJ MGR	E. RODRIGUEZ	

SANDAG

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PUBLIC CONTRACT

TENTH AVENUE MARINE TERMINAL BRIDGE GENERAL NOTES

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
SHEET 137 OF 187 SHEETS

PROJECT NO.

FOR CITY ENGINEER — DATE
PRINT NAME — RCE#

V.T.M.

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
AS-BUILTS				

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41370-137-D

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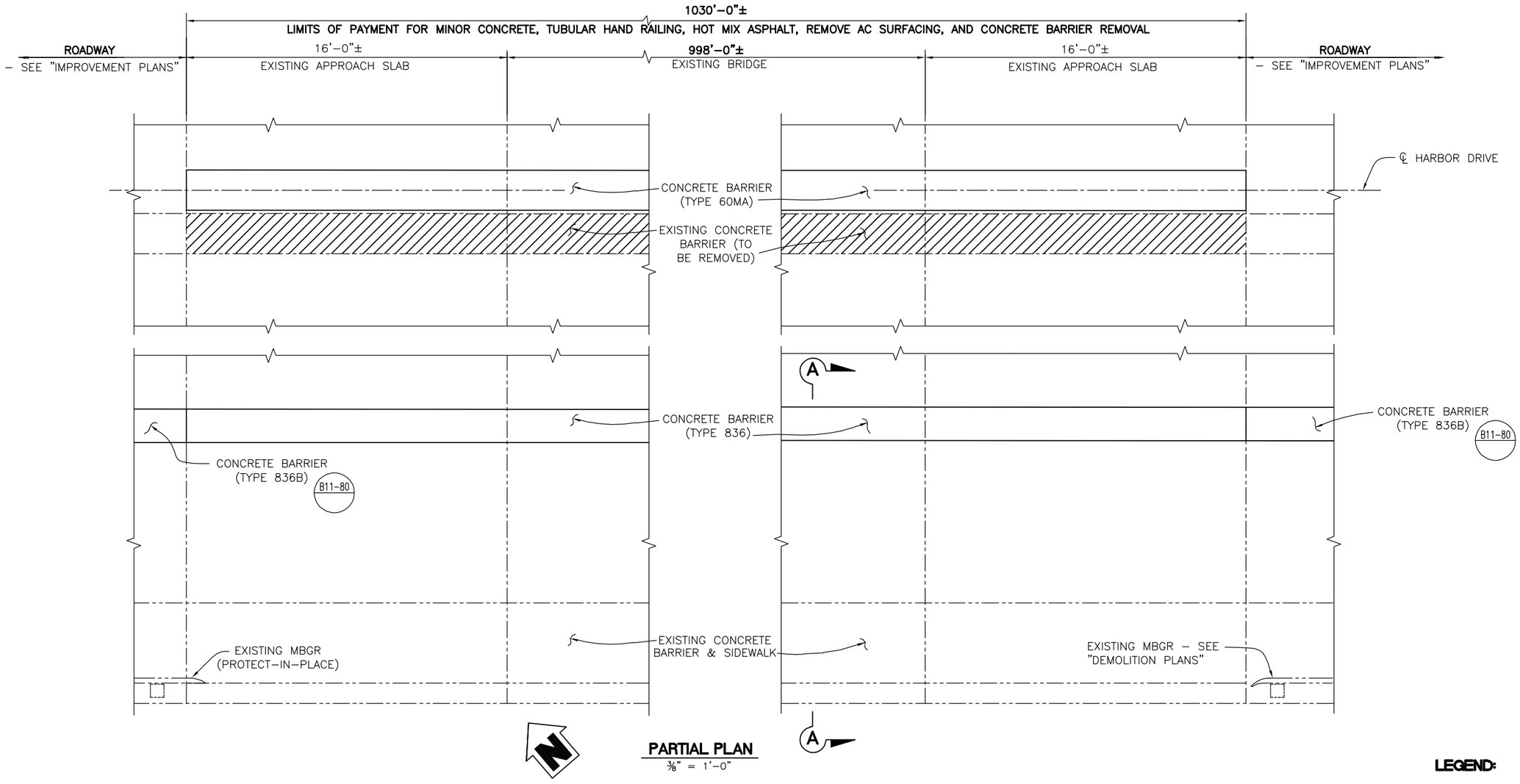

PARTIAL PLAN

3/8" = 1'-0"

LEGEND:

INDICATES LIMITS OF CONCRETE BARRIER REMOVAL

NOTES:

1. FOR SECTION "A-A", SEE DECK DETAILS NO. 2" SHEET.
2. FOR CONCRETE BARRIER TYPE 60MA DETAILS, SEE "CONCRETE BARRIER TYPE 60MA DETAILS" SHEET.
3. FOR CONCRETE BARRIER TRANSITIONS AT LUMINAIRE, SEE "CONCRETE BARRIER TYPE 60R DETAILS NO. 1" SHEET.

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PUBLIC CONTRACT

TENTH AVENUE MARINE TERMINAL BRIDGE
DECK DETAILS NO. 1

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
SHEET 138 OF 167 SHEETS

PROJECT NO.

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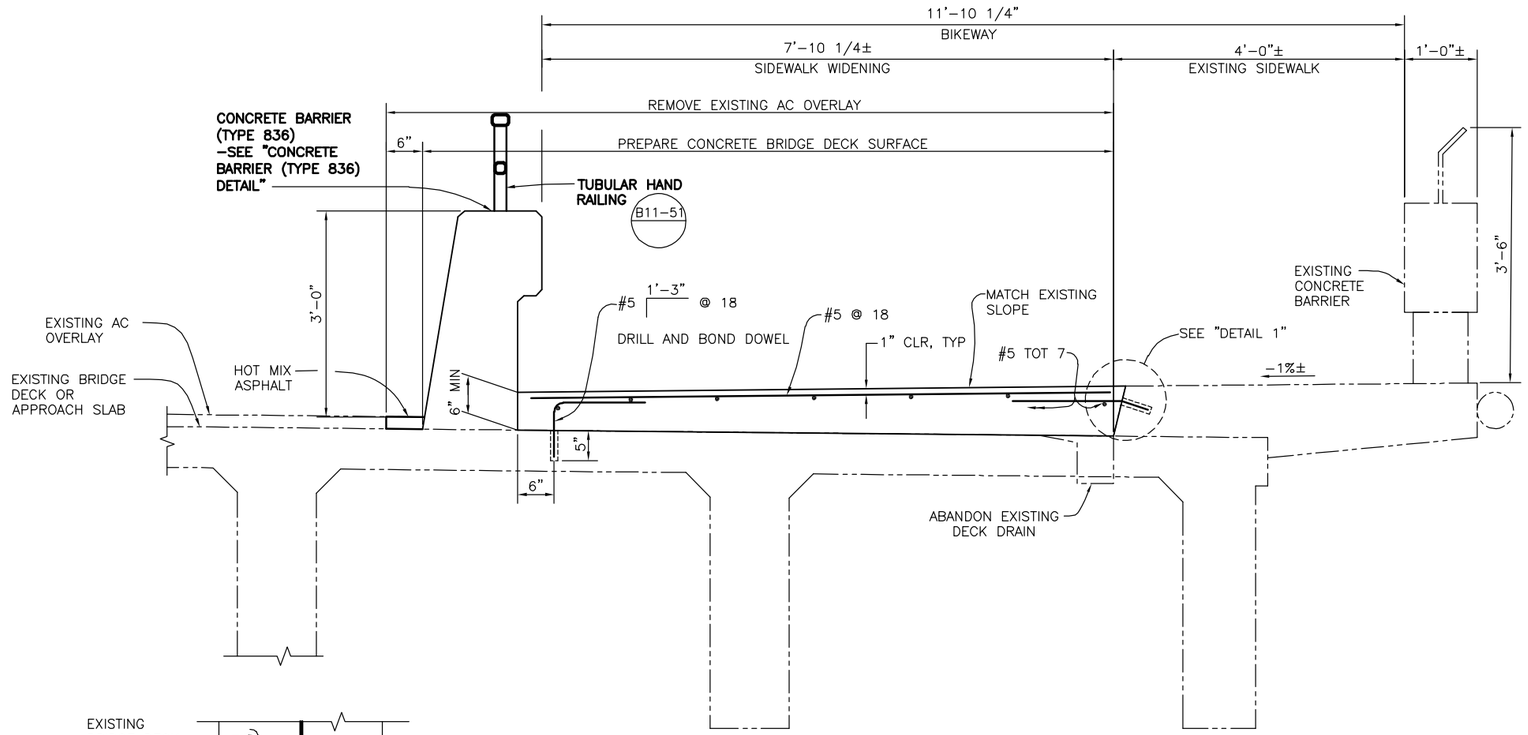
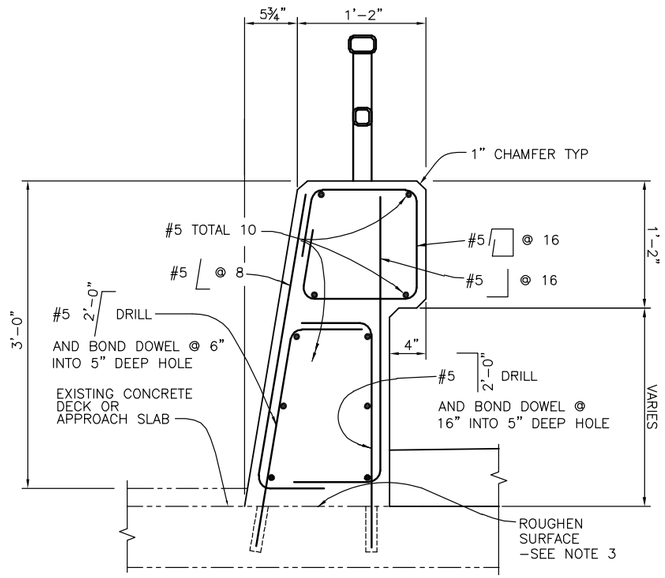


SECTION A-A

1" = 1'-0"

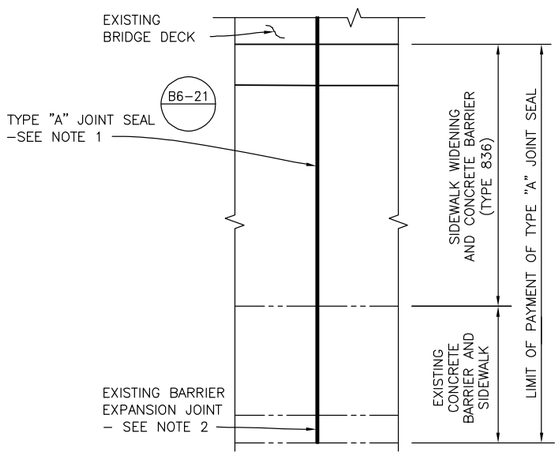


CONCRETE BARRIER (TYPE 836) DETAIL

1½" = 1'-0"

NOTES:

1. AVOID EXISTING REINFORCEMENT WHEN DRILLING.
2. CLEARANCE TO REINFORCING STEEL IN BARRIER TO BE 1", EXCEPT AS NOTED. LONGITUDINAL REINFORCEMENT TO STOP AT EXPANSION JOINTS.
3. ROUGHEN EXISTING BRIDGE DECK SURFACE BELOW BARRIER TO ¼" AMPLITUDE BEFORE CASTING NEW CONCRETE AGAINST EXISTING CONCRETE.

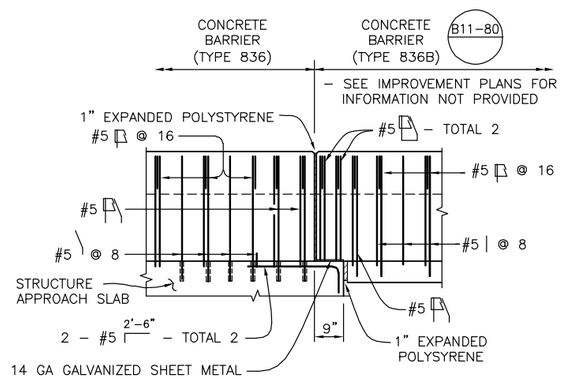


NOTES:

1. JOINT OPENING WIDTH TO MATCH EXISTING BARRIER EXPANSION JOINT WIDTH.
2. REMOVE EXISTING JOINT SEAL AND REPLACE WITH TYPE "A" JOINT SEAL.
3. FOR CONCRETE BARRIER TYPE 60MA EXPANSION JOINT DETAILS, SEE "CONCRETE BARRIER TYPE 60MA DETAILS" SHEET.
4. INSTALL TYPE "A" JOINT SEAL AT EXISTING BARRIER EXPANSION JOINTS AND HINGE EXPANSION JOINTS.

SIDEWALK WIDENING EXPANSION JOINT DETAIL

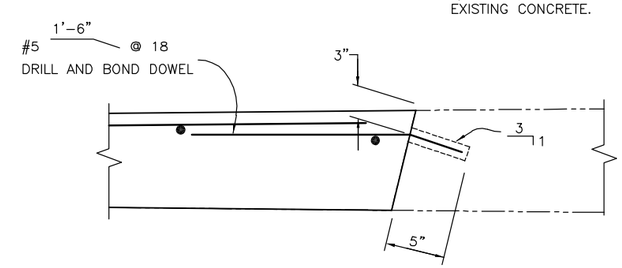
⅜" = 1'-0"



ELEVATION

CONNECTION TO STRUCTURE

NO SCALE



DETAIL 1

2" = 1'-0"

PUBLIC CONTRACT

TENTH AVENUE MARINE TERMINAL BRIDGE DECK DETAILS NO. 2

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
SHEET 139 OF 167 SHEETS

PROJECT NO.

FOR CITY ENGINEER — DATE
PRINT NAME — RCE #

V.T.M.

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
AS-BUILTS				

1834-6287 NAD83 COORDINATES

XXX-XXXX LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370-139-D

811 Know what's below. Call before you dig.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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550 West C Street, Suite 1200 San Diego, CA. 92101
Tel (619) 831-4600

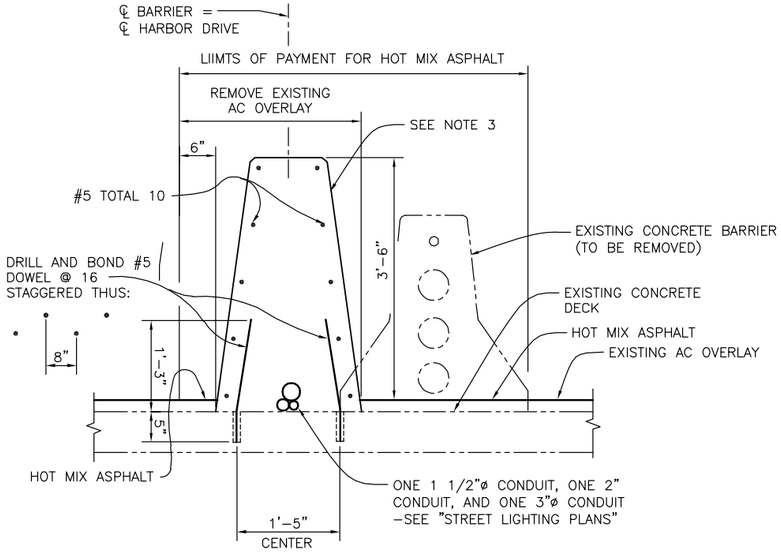
REGISTERED PROFESSIONAL ENGINEER JASON C. SANDERS C83976 CIVIL STATE OF CALIFORNIA

		DATE
DESIGNED BY	M. PETROS	05/19
DRAWN BY	G. BUELOW	05/19
CHECKED BY	K. GAZAWAY	05/19
SANDAG PRJ MGR	E. RODRIGUEZ	

SANDAG

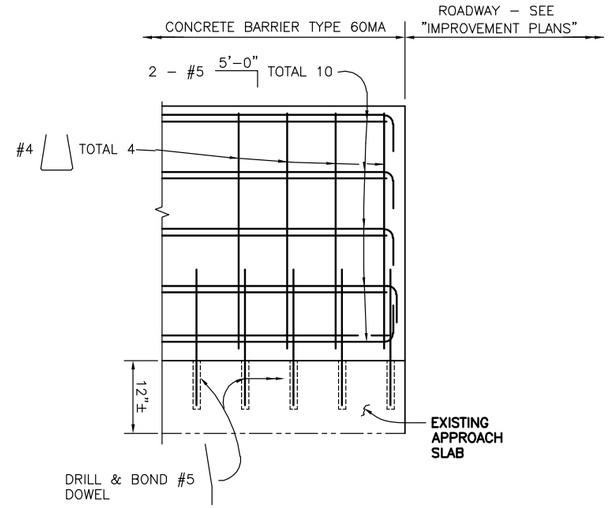
SCALE: AS SHOWN
CONTRACT NO.
DRAWING NO.
SHEET NO.

NOT FOR CONSTRUCTION - MAY 6, 2019



CONCRETE BARRIER (TYPE 60MA) DETAIL

1" = 1'-0"

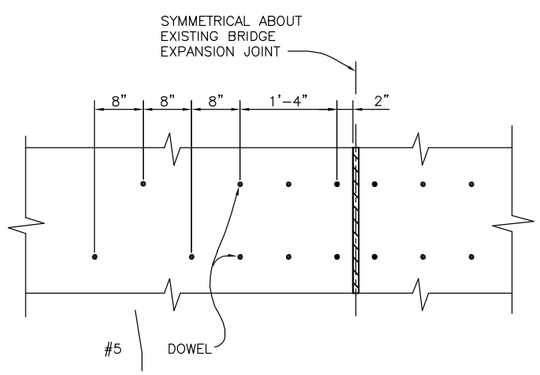


ELEVATION
CONNECTION TO STRUCTURE

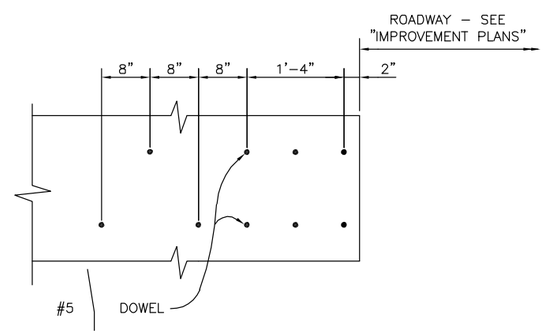
1" = 1'-0"

NOTES:

1. TRANSVERSE EXPANSION JOINTS IN CONCRETE BARRIER SHALL MATCH ALL DECK JOINTS.
2. MINOR ADJUSTMENTS MAY BE MADE IN DOWEL SPACING TO CLEAR MAIN REINFORCEMENT.
3. FOR CONCRETE BARRIER TYPE 60MA DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLAN A76A.
4. ROUGHEN EXISTING SURFACE BELOW BARRIER TO ¼" AMPLITUDE.
5. CLEARANCE TO REINFORCING STEEL IN BARRIER TO BE 1" EXCEPT AS NOTED.



PLAN - BRIDGE JOINT



PLAN - APPROACH SLAB AND ROADWAY BARRIER

CONNECTION TO STRUCTURE

1" = 1'-0"

0 1/2 1

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REGISTERED PROFESSIONAL ENGINEER JASON C. SANDERS C83976 CIVIL STATE OF CALIFORNIA

DESIGNED BY	M. PETROS	DATE 05/19
DRAWN BY	G. BUELOW	05/19
CHECKED BY	K. GAZAWAY	05/19
SANDAG PRJ MGR	E. RODRIGUEZ	

SANDAG

SCALE: AS SHOWN
CONTRACT NO.
DRAWING NO.
SHEET NO.

PUBLIC CONTRACT

TENTH AVENUE MARINE TERMINAL BRIDGE
CONCRETE BARRIER TYPE 60MA DETAILS

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
SHEET 140 OF 167 SHEETS

PROJECT NO.

FOR CITY ENGINEER — DATE
PRINT NAME — RCE #

V.T.M.

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370-140-D

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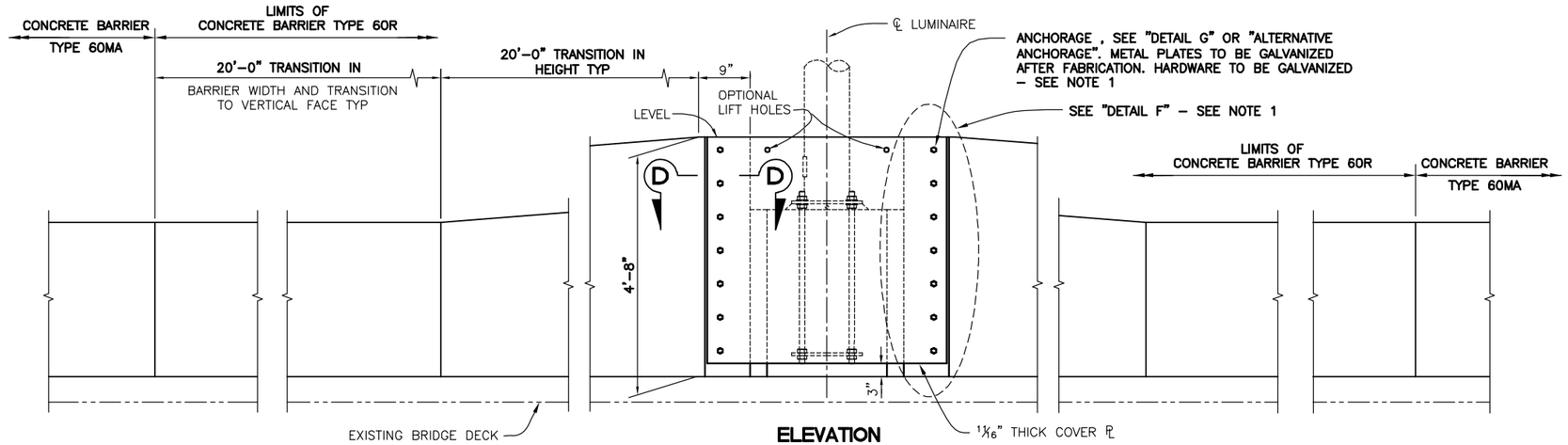
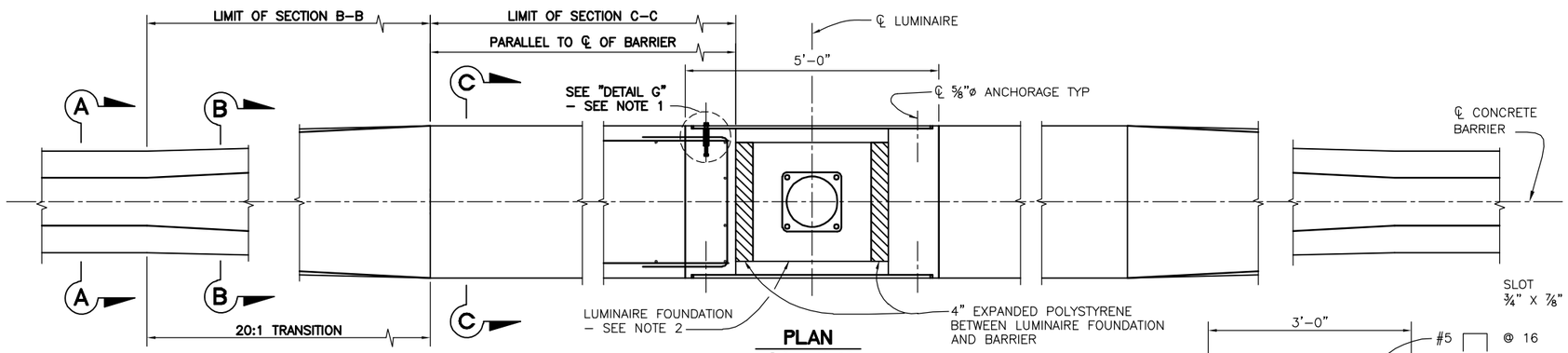
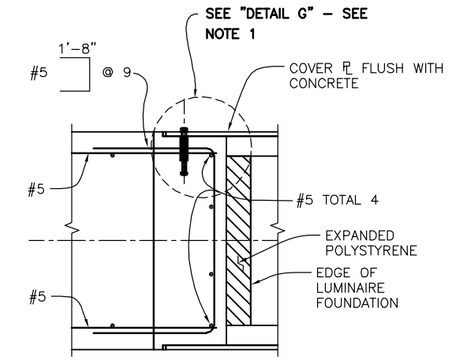


ELEVATION
¾" = 1'-0"



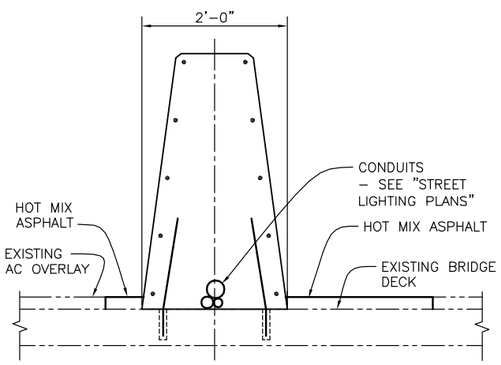
PLAN
¾" = 1'-0"



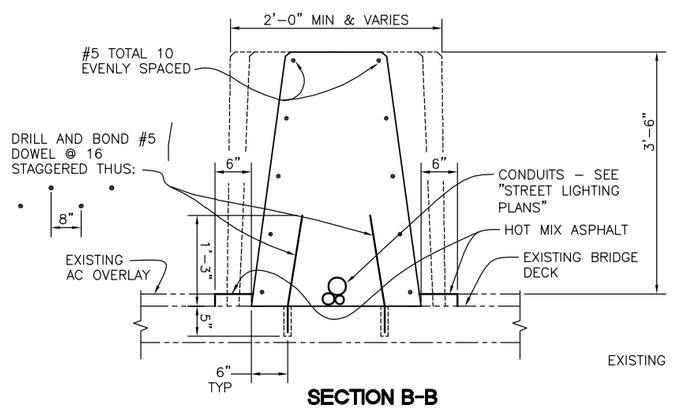
SECTION D-D
1" = 1'-0"

NOTES:

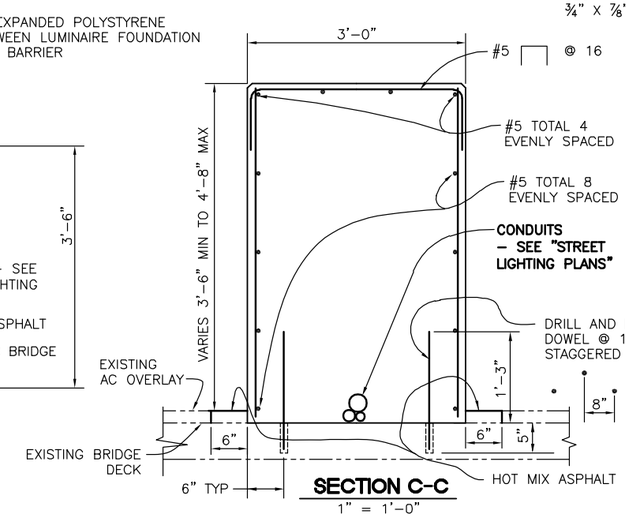
1. FOR "DETAIL F" AND "DETAIL G", SEE "BARRIER-CONCRETE TYPE 60R DETAILS NO. 2" SHEET.
2. FOR LUMINAIRE FOUNDATION DETAILS, SEE "ELECTRICAL MOUNTING DETAILS" SHEET.
3. ADJUST HEIGHT OF CONCRETE BARRIERS WALL ON LOW SIDE OF OFFSET OR SUPERELEVATED ROADWAYS TO PROVIDE LEVEL GRADE ACROSS TOP OF CONCRETE BARRIER CAP.
4. ROUGHEN EXISTING SURFACE BELOW BARRIER TO ¼" AMPLITUDE.
5. CLEARANCE TO REINFORCING STEEL IN BARRIER TO BE 1" EXCEPT AS NOTED.
6. EXISTING MEDIAN NOT SHOWN FOR CLARITY.
7. COVER PLATE SHALL BE ASTM A709/A709M GRADE 50 STRUCTURAL STEEL.



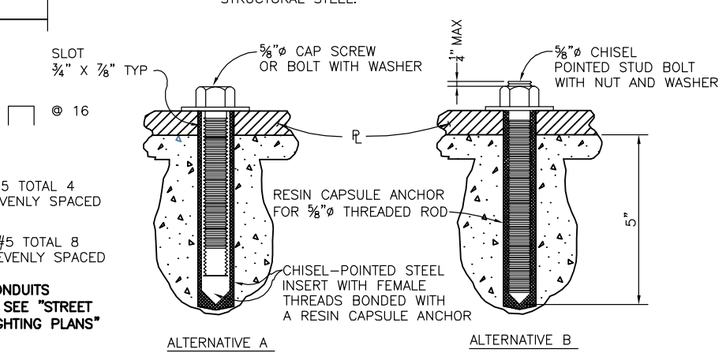
SECTION A-A
1" = 1'-0"



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



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



ALTERNATIVE ANCHORAGE
NO SCALE

PUBLIC CONTRACT

TENTH AVENUE TERMINAL BRIDGE
CONCRETE BARRIER TYPE 60R DETAILS NO. 1
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
SHEET 141 OF 167 SHEETS

PROJECT NO.
FOR CITY ENGINEER — DATE
PRINT NAME — RCE#
V.T.M.

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370-141-D

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Tel (619) 831-4600

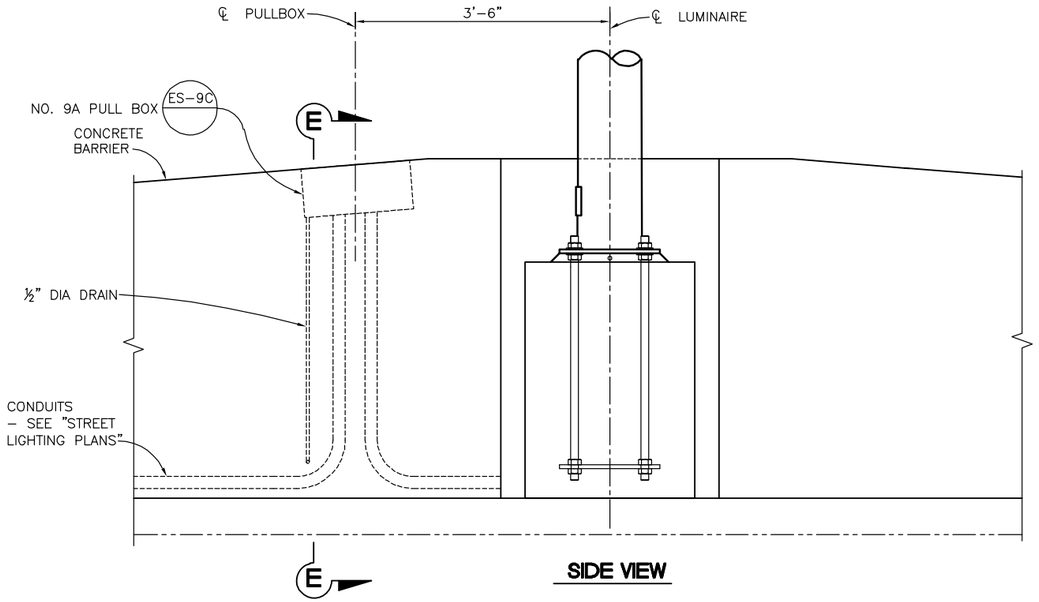
REGISTERED PROFESSIONAL ENGINEER JASON C. SANDERS C83976 CIVIL STATE OF CALIFORNIA

		DATE
DESIGNED BY	M. PETROS	05/19
DRAWN BY	G. BUELOW	05/19
CHECKED BY	K. GAZAWAY	05/19
SANDAG PRJ MGR	E. RODRIGUEZ	

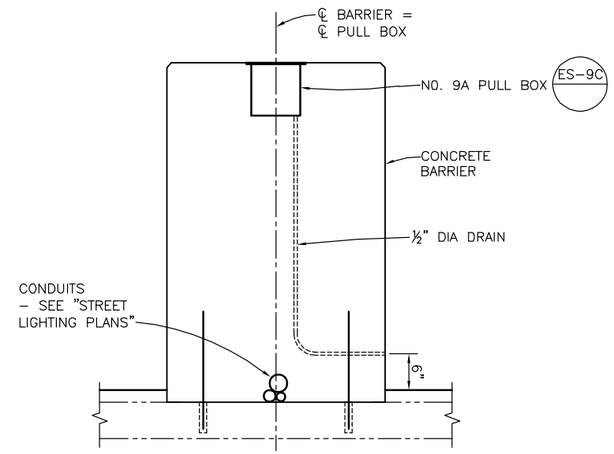
SANDAG

SCALE: AS SHOWN
CONTRACT NO.
DRAWING NO.
SHEET NO.

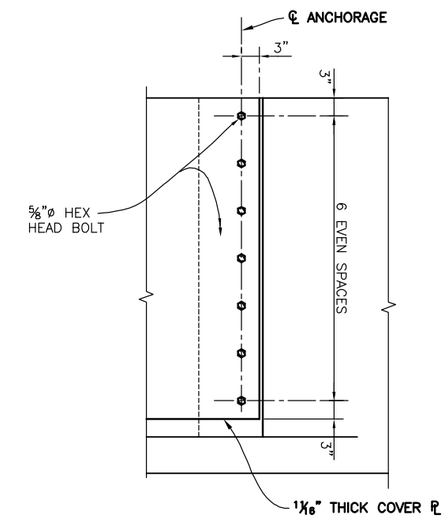
NOT FOR CONSTRUCTION - MAY 6, 2019



SIDE VIEW



SECTION E-E

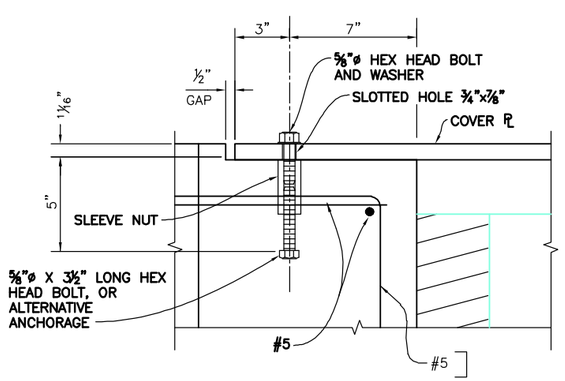


DETAIL F
1" = 1'-0"

NOTES:

1. AXIS OF PULL BOX SHALL BE PARALLEL TO TOP OF BARRIER.
2. BOXES INSIDE OF VERTICAL BARRIER SHALL BE CLOSED DURING POURING OF PCC WITH ¼" PLYWOOD OF SUFFICIENT SIZE TO PROVIDE 1:1 CHAMFER ON 3 SIDES OF COVER. UPPER EDGE OF PLYWOOD SHALL FIT AGAINST LOWER EDGE OF RAINTIGHT HOOD.
3. USE DRAIN AT LOW END OF BOX.
4. REINFORCEMENT IN BARRIER MAY BE MOVED TO ACCOMMODATE PULL BOX, BUT AMOUNT OF REINFORCEMENT IN BARRIER SHALL NOT BE REDUCED.

PULL BOX DETAIL
1" = 1'-0"



DETAIL G
1" = 1'-0"

0 1/2 1

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REGISTERED PROFESSIONAL ENGINEER JASON C. SANDERS C83976 CIVIL STATE OF CALIFORNIA

		DATE
DESIGNED BY	M. PETROS	05/19
DRAWN BY	G. BUELOW	05/19
CHECKED BY	K. GAZAWAY	05/19
SANDAG PRJ MGR	E. RODRIGUEZ	

SANDAG

SCALE: AS SHOWN
CONTRACT NO.
DRAWING NO.
SHEET NO.

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PUBLIC CONTRACT

TENTH AVENUE MARINE TERMINAL BRIDGE CONCRETE BARRIER TYPE 60R DETAILS NO. 2

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
SHEET 142 OF 167 SHEETS

PROJECT NO.

FOR CITY ENGINEER — DATE
PRINT NAME — RCE #

V.T.M.

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
AS-BUILTS				

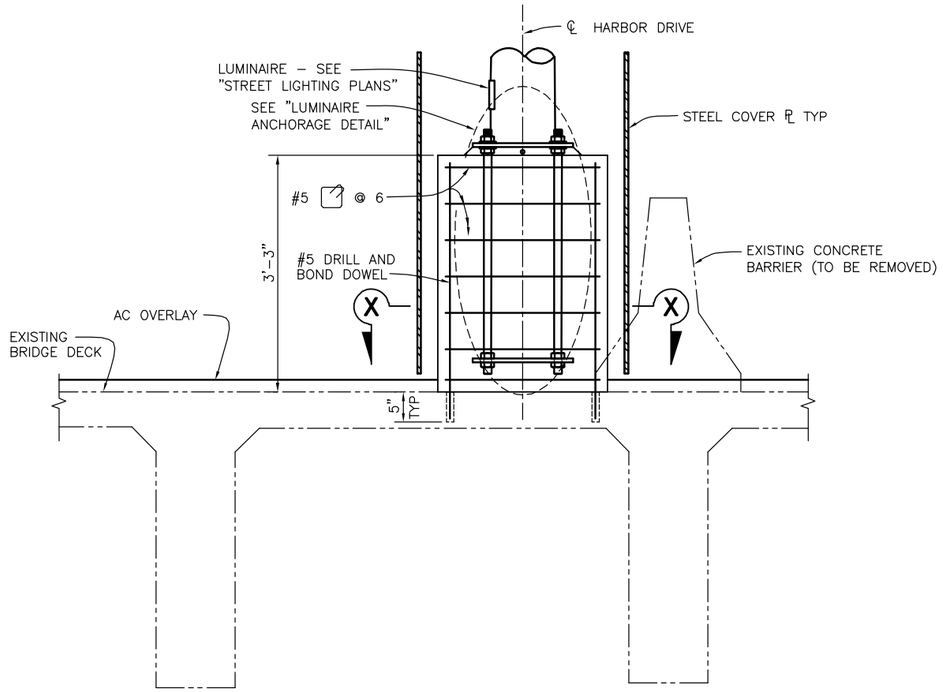
1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

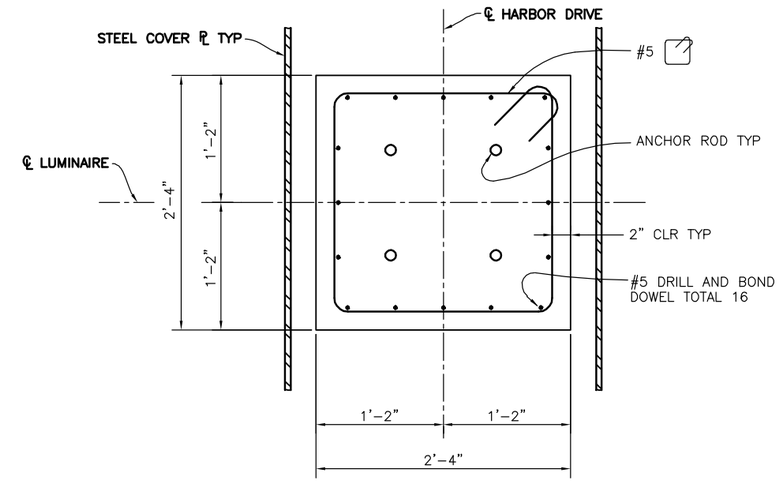
41370-142-D

NOT FOR CONSTRUCTION - MAY 6, 2019



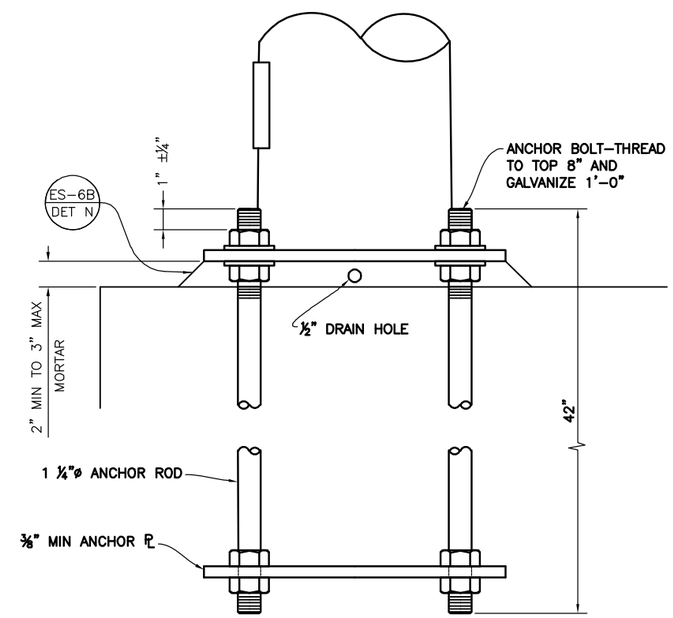
LUMINAIRE FOUNDATION DETAIL

1" = 1'-0"



SECTION X-X

1½" = 1'-0"



LUMINAIRE ANCHORAGE DETAIL

3" = 1'-0"

811 Know what's below. Call before you dig.

0 1/2 1

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DESIGNED BY M. PETROS	DATE 05/19	
DRAWN BY G. BUELOW	05/19	
CHECKED BY K. GAZAWAY	05/19	
SANDAG PRJ MGR E. RODRIGUEZ		

SANDAG

SCALE: AS SHOWN
CONTRACT NO.
DRAWING NO.
SHEET NO.

PUBLIC CONTRACT

TENTH AVENUE MARINE TERMINAL BRIDGE ELECTRICAL MOUNTING DETAILS

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
SHEET 143 OF 167 SHEETS

PROJECT NO.

FOR CITY ENGINEER DATE
PRINT NAME RCE#

V.T.M.

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
AS-BUILTS				

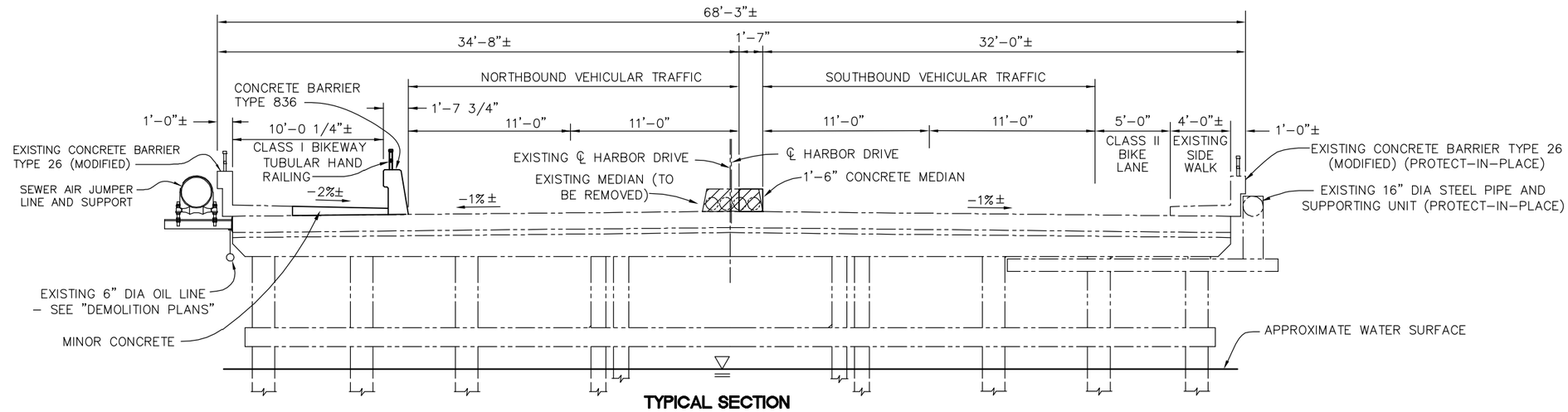
1834-6287 NAD83 COORDINATES

XXX-XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

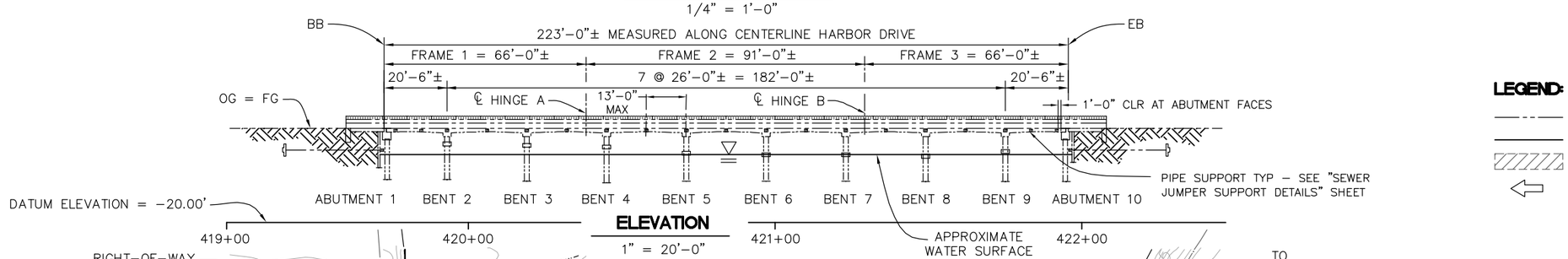
41370-143-D

NOT FOR CONSTRUCTION - MAY 6, 2019



TYPICAL SECTION

1/4" = 1'-0"

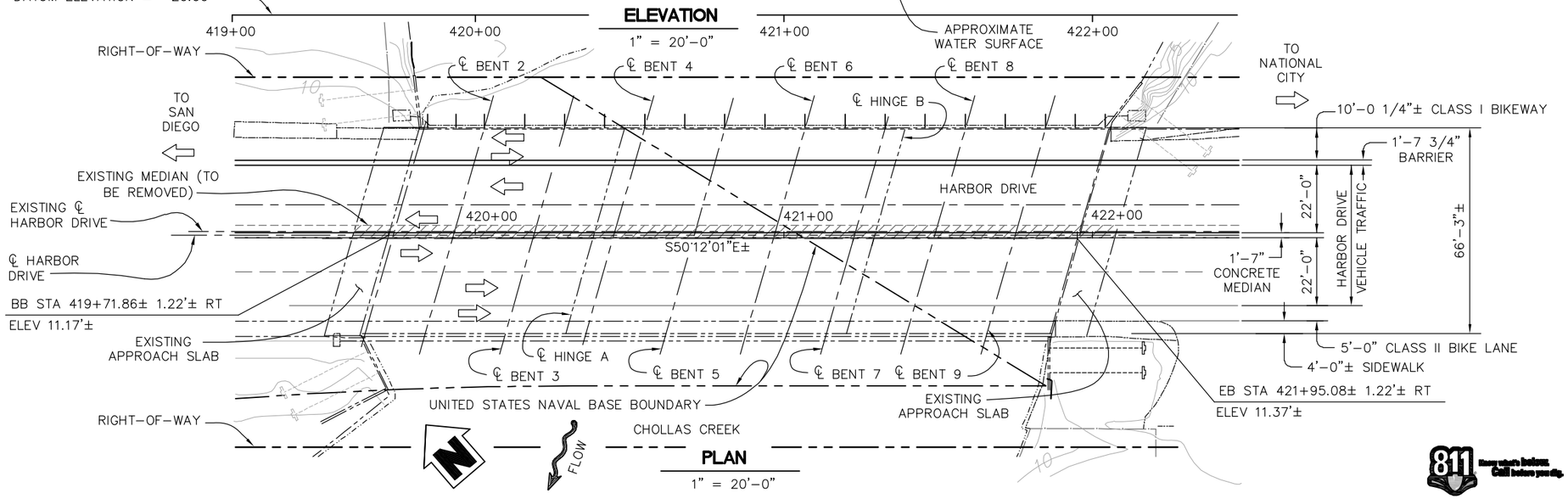


ELEVATION

1" = 20'-0"

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES NEW CONSTRUCTION
- INDICATES REMOVAL
- INDICATES DIRECTION OF TRAFFIC



PLAN

1" = 20'-0"

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0 1/2 1

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SANDAG PRJ MGR E. RODRIGUEZ		

SANDAG

SCALE: AS SHOWN
CONTRACT NO.
DRAWING NO.
SHEET NO.

PUBLIC CONTRACT

CHOLLAS CREEK BRIDGE GENERAL PLAN

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
SHEET 144 OF 167 SHEETS

PROJECT NO.

FOR CITY ENGINEER — DATE
PRINT NAME — RCE#

V.T.M.

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
AS-BUILTS				

1834-6287 NAD83 COORDINATES

XXX-XXXX LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

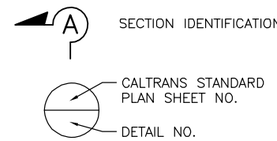
41370-144-D

NOT FOR CONSTRUCTION - MAY 6, 2019

INDEX TO PLANS

SHEET NO.	TITLE
134	GENERAL PLAN
135	GENERAL NOTES
136	IMPROVEMENT DETAILS
137	AC OVERLAY AND CONCRETE REMOVAL DETAILS
138	SEWER AIR JUMPER SUPPORT DETAILS

PLAN SYMBOLS



GENERAL NOTES

DESIGN:	CHECK OF EXISTING COMPONENTS: CALTRANS BRIDGE DESIGN SPECIFICATIONS, APRIL 2000 (LFD) DESIGN OF NEW COMPONENTS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2012 (6TH EDITION) WITH CALIFORNIA AMENDMENTS DATED MARCH 2014
STRUCTURAL STEEL:	ASTM A36 (UNLESS OTHERWISE NOTED)
THREADED RODS:	ASTM, A307 GRADE C, GALVANIZED
SEWER AIR JUMPER LINE DESIGN LOADS:	DEAD LOAD = 50 PLF LIVE LOAD = 50 PLF

CALTRANS STANDARD PLANS DATED 2018

	A3A	ABBREVIATIONS (SHEET 1 OF 3)
	A3B	ABBREVIATIONS (SHEET 2 OF 3)
	A3C	ABBREVIATIONS (SHEET 3 OF 3)
	B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
RSP	B11-51	TUBULAR HAND RAILING
RSP	B11-80	CONCRETE BARRIER TYPE 836

SPECIFICATIONS

STANDARD SPECIFICATIONS DATED JUNE 2018, STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION

QUANTITIES

ITEM	QTY
REMOVE CONCRETE (CY)	61 CY
MINOR CONCRETE	60 CY
DRILL AND BOND DOWEL	266 LF
DRILL AND BOND DOWEL (CHEMICAL ADHESIVE)	76 EA
JOINT SEAL (TYPE A)	61 LF
BAR REINFORCING STEEL (BRIDGE)	6,232 LB
REMOVE ASPHALT CONCRETE SURFACING	325 SQ FT
HOT MIX ASPHALT (TYPE A)	2 TON
PREPARE CONCRETE BRIDGE DECK SURFACE	3,358 SQ FT
MISCELLANEOUS METAL	543 LB
TUBULAR HAND RAILING	247 LF
CONCRETE BARRIER (TYPE 836)	247 LF
AIR JUMPER SUPPORTS	1 LS

NOTE: MINOR CONCRETE DOES NOT INCLUDE PAYMENT FOR BAR REINFORCING STEEL.

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0 1/2 1

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PUBLIC CONTRACT

CHOLLAS CREEK BRIDGE GENERAL NOTES

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
SHEET 145 OF 187 SHEETS

PROJECT NO. _____

FOR CITY ENGINEER _____ DATE _____
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V.T.M. _____

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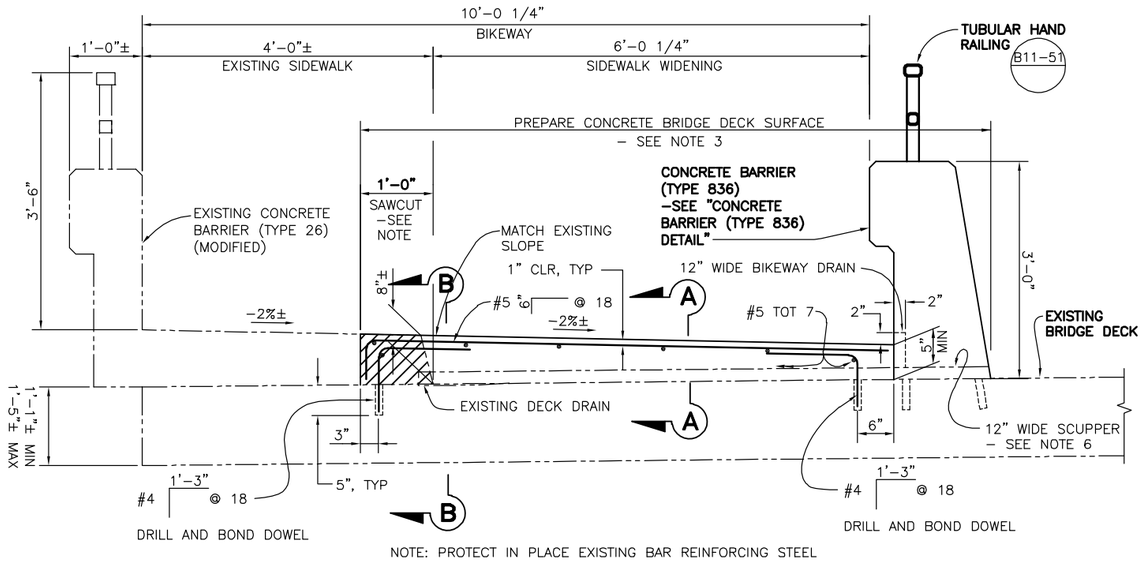
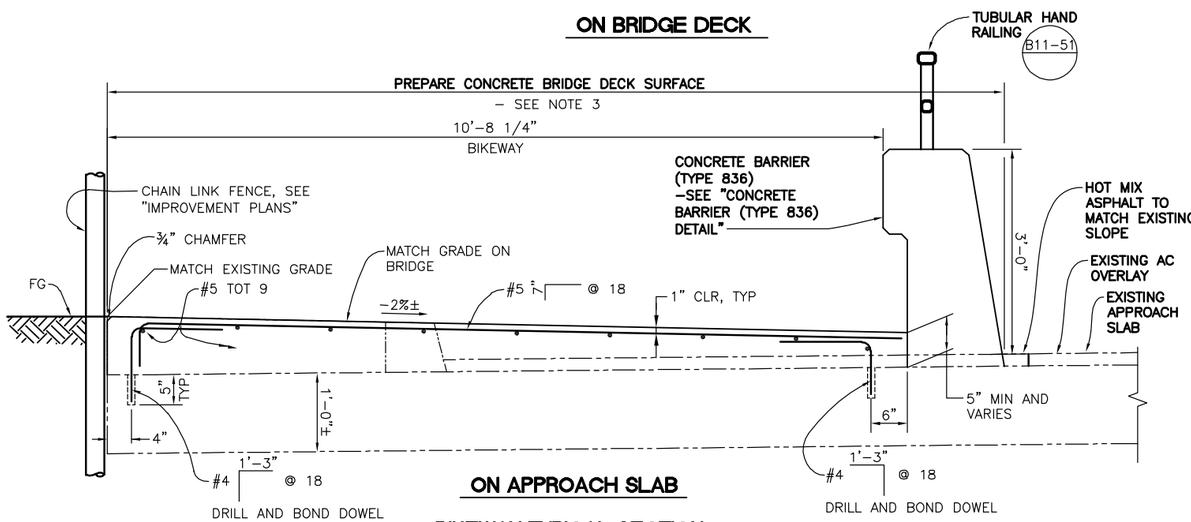


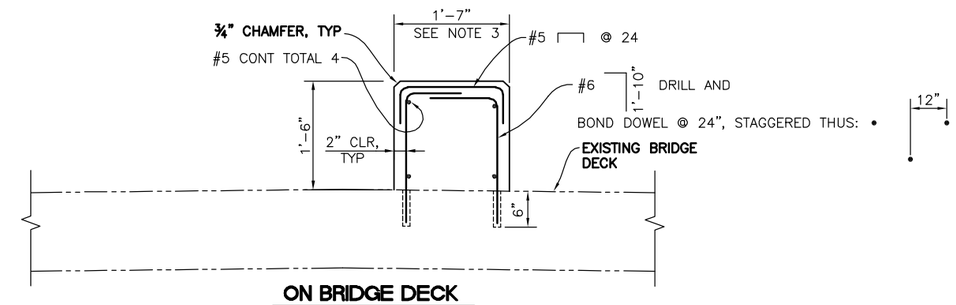
ON BRIDGE DECK



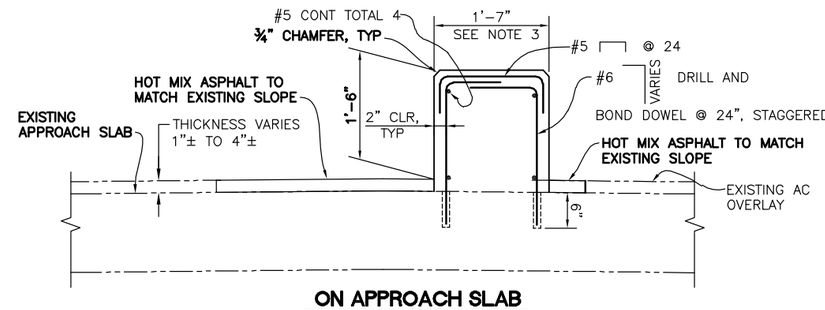
ON APPROACH SLAB

BIKEWAY TYPICAL SECTION

1" = 1'-0"



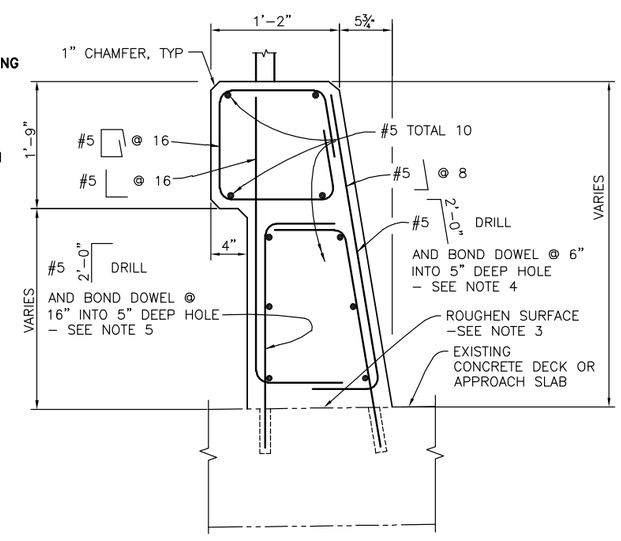
ON BRIDGE DECK



ON APPROACH SLAB

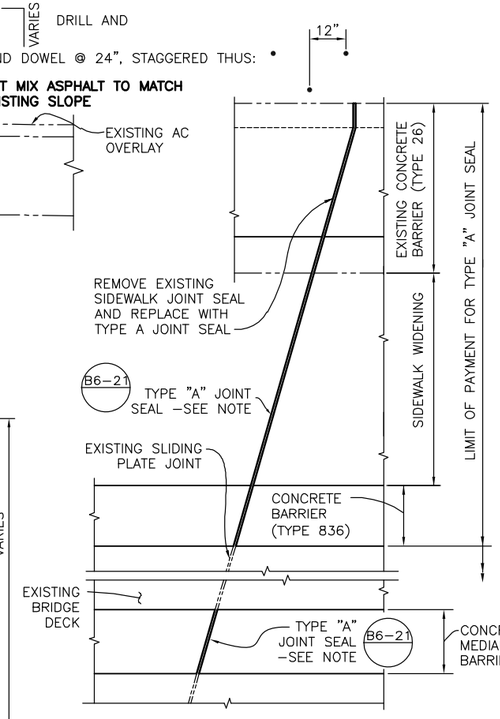
MEDIAN TYPICAL SECTION

1" = 1'-0"



CONCRETE BARRIER (TYPE 836) DETAIL

1½" = 1'-0"



NOTE: JOINT OPENING WIDTH TO MATCH EXISTING.

PARTIAL PLAN AT JOINT

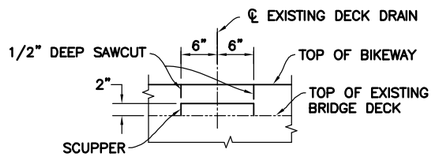
NO SCALE

NOTES:

1. AVOID EXISTING REINFORCEMENT WHEN DRILLING.
2. CLEARANCE TO REINFORCING STEEL IN BARRIER TO BE 1", EXCEPT AS NOTED. LONGITUDINAL REINFORCEMENT TO STOP AT EXPANSION JOINTS.
3. ROUGHEN EXISTING BRIDGE DECK SURFACE TO ¼" AMPLITUDE BELOW BIKEWAY, MEDIAN AND BARRIER BEFORE CASTING NEW CONCRETE AGAINST EXISTING CONCRETE.
4. UP TO TWO BARS MAY BE OMITTED AT LOCATION OF DECK DRAINS.
5. NO BARS SHALL BE OMITTED AT DECK DRAINS.
6. EXTEND SCUPPER BEYOND EXISTING DECK DRAIN.
7. FOR "SECTION B-B", SEE "AC OVERLAY AND CONCRETE REMOVAL DETAILS" SHEET.

LEGEND:

- INDICATES REMOVAL



SECTION A-A

NO SCALE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

KLEINFELDER
Bright people. Right Solutions.
550 West C Street, Suite 1200 San Diego, CA. 92101
Tel (619) 831-4600

REGISTERED PROFESSIONAL ENGINEER JASON C. SANDERS C83976 CIVIL STATE OF CALIFORNIA

DESIGNED BY M. PETROS	DATE 05/19	
DRAWN BY G. BUELOW	05/19	
CHECKED BY K. GAZAWAY	05/19	
SANDAG PRJ MGR E. RODRIGUEZ		

SANDAG

SCALE: AS SHOWN
CONTRACT NO.
DRAWING NO.
SHEET NO.

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

CHOLLAS CREEK BRIDGE IMPROVEMENT DETAILS

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
SHEET 146 OF 167 SHEETS

PROJECT NO.

FOR CITY ENGINEER — DATE
PRINT NAME — RCE #

V.T.M.

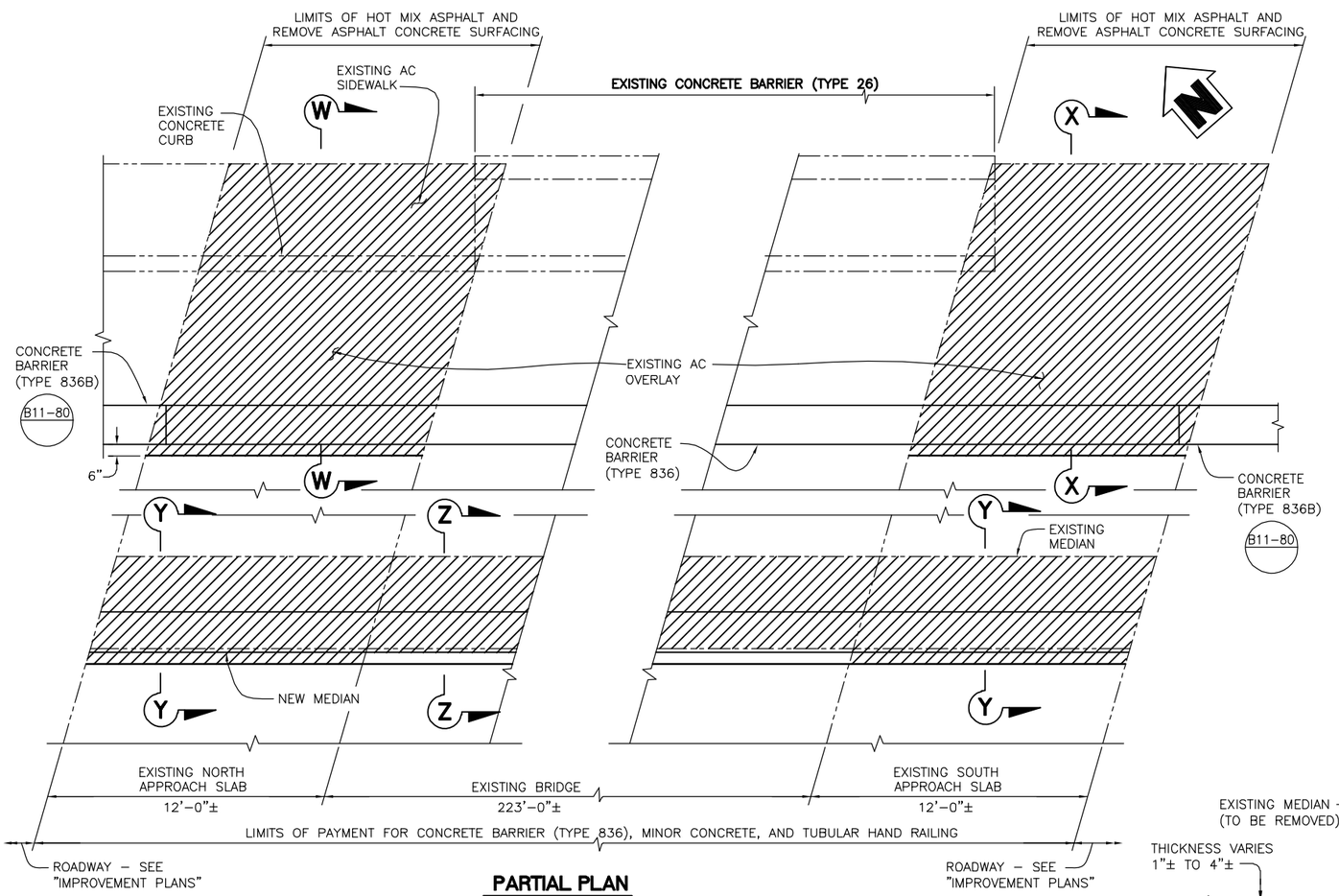
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

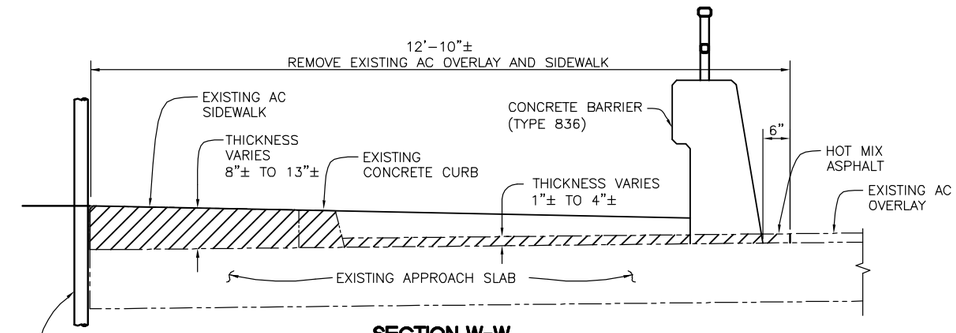
41370-146-D

NOT FOR CONSTRUCTION - MAY 6, 2019



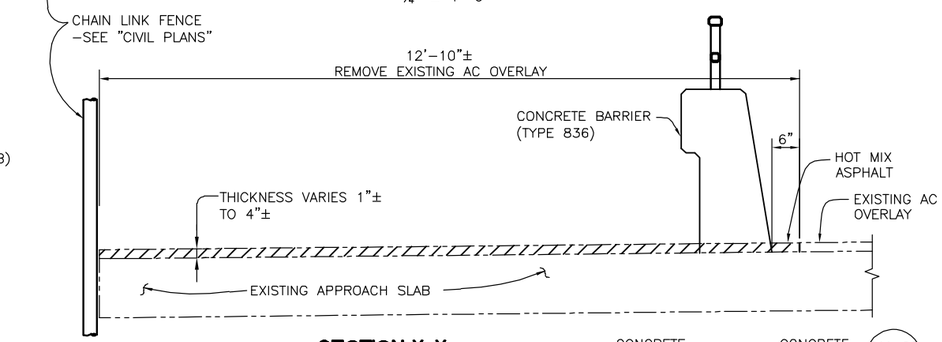
PARTIAL PLAN

⅜" = 1'-0"



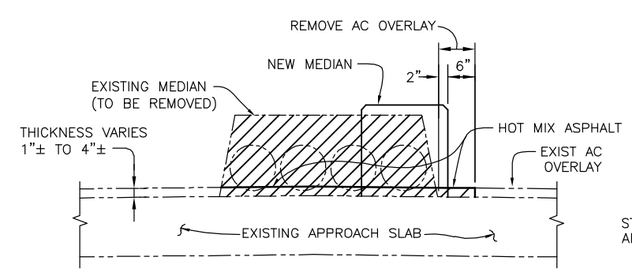
SECTION W-W

¾" = 1'-0"



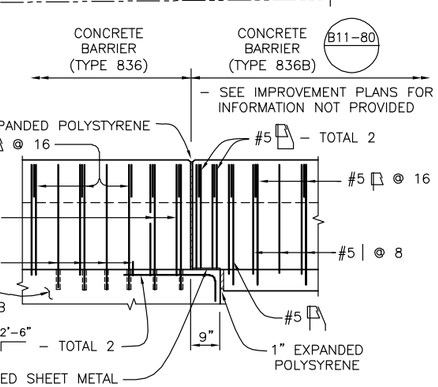
SECTION X-X

¾" = 1'-0"



SECTION Y-Y

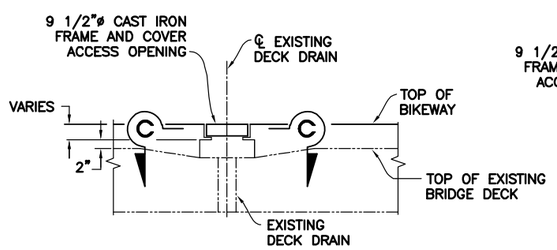
¾" = 1'-0"



ELEVATION

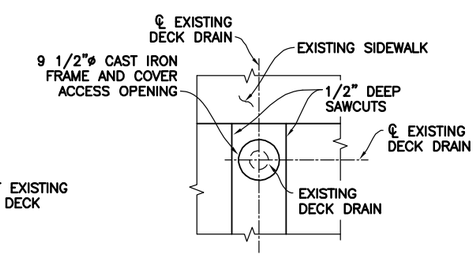
CONNECTION TO STRUCTURE

NO SCALE



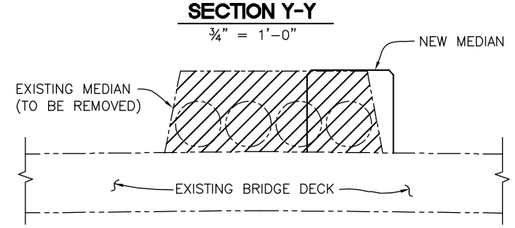
SECTION B-B

¾" = 1'-0"



SECTION C-C

¾" = 1'-0"



SECTION Z-Z

¾" = 1'-0"

NOTE: SIDEWALK WIDENING AND MEDIAN BARRIER ARE PAID FOR AS MINOR CONCRETE.

LEGEND:

INDICATES LIMITS OF AC OVERLAY, CONCRETE MEDIAN AND SIDEWALK REMOVAL

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

KLEINFELDER
Bright people. Right Solutions.
550 West C Street, Suite 1200 San Diego, CA. 92101
Tel (619) 831-4600

REGISTERED PROFESSIONAL ENGINEER JASON C. SANDERS C83976 CIVIL STATE OF CALIFORNIA

DESIGNED BY M. PETROS	DATE 05/19	
DRAWN BY G. BUELOW	05/19	
CHECKED BY K. GAZAWAY	05/19	
SANDAG PRJ MGR E. RODRIGUEZ		

SANDAG

SCALE: AS SHOWN
CONTRACT NO.
DRAWING NO.
SHEET NO.

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

CHOLLAS CREEK BRIDGE
AC OVERLAY AND CONCRETE REMOVAL DETAILS
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
SHEET 147 OF 167 SHEETS

PROJECT NO.

FOR CITY ENGINEER — DATE
PRINT NAME — RCE#

V.T.M.

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
AS-BUILTS				

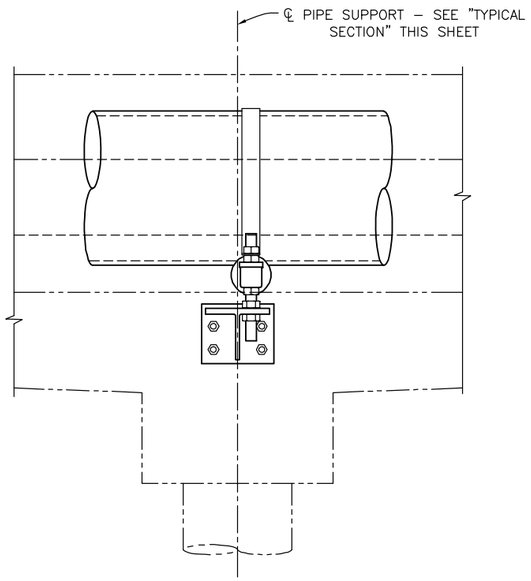
1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

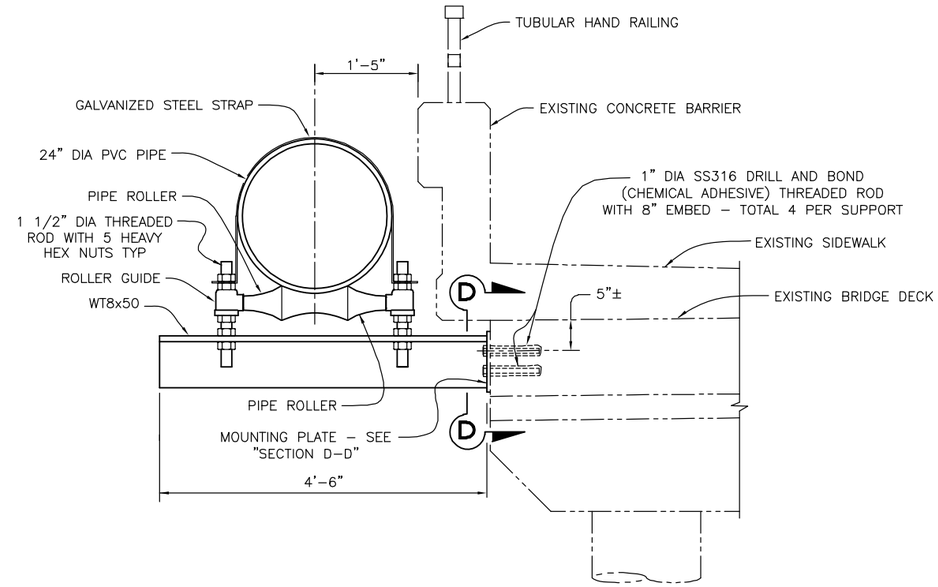
41370-147-D

NOT FOR CONSTRUCTION - MAY 6, 2019

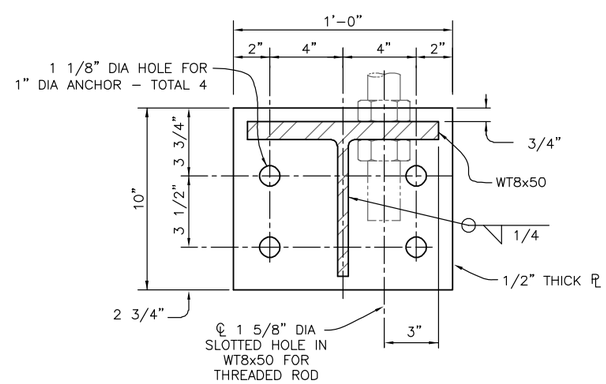


NOTE: TUBULAR HAND RAILING NOT SHOWN FOR CLARITY.

PARTIAL ELEVATION
1" = 1'–0"



TYPICAL SECTION
1" = 1'–0"



SECTION D–D
3" = 1'–0"

NOTES:

1. PIPE SUPPORTS SHALL BE LOCATED AT CENTERLINE BENTS AND MIDSPAN AT A MAXIMUM SPACING OF 13'–0". AT ABUTMENTS, PIPE SUPPORTS SHALL BE LOCATED 1'–0"± CLEAR OF FACE OF ABUTMENT. SEE "GENERAL PLAN" SHEET FOR LOCATIONS.
2. SEWER AIR JUMPER LINE WILL ONLY CONVEY AIR. AIR JUMPER SUPPORTS ARE NOT TO SUPPORT PIPE WITH FLUIDS OF ANY KIND.
3. STEEL STRAPS ALLOW PVC PIPE TO SLIDE LONGITUDINALLY.
4. CONTRACTOR MUST SUBMIT SHOP DRAWINGS FOR PIPELINE SUPPORTS AND ROLLER ASSEMBLIES FOR APPROVAL BY ENGINEER.
5. ROLLER ASSEMBLIES MUST CONSIST OF NON–METALLIC POLYURETHANE ROLLERS WITH HOT–DIP GALVANIZED SOCKETS AND STAINLESS STEEL HARDWARE.
6. CONTRACTOR SHALL AVOID EXISTING REINFORCEMENT IN DECK FOR INSTALLATION OF DRILL AND BOND ANCHORS.

PUBLIC CONTRACT

CHOLLAS CREEK BRIDGE
SEWER AIR JUMPER SUPPORT DETAILS
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

811 Know what's below. Call before you dig.

CITY OF SAN DIEGO, CALIFORNIA
SHEET 148 OF 167 SHEETS

PROJECT NO.

FOR CITY ENGINEER — DATE
PRINT NAME — RCE #

V.T.M.

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
AS–BUILTS				

1834–6287 NAD83 COORDINATES
XXX–XXXX LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370–148–D

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

KLEINFELDER
Bright people. Right Solutions.
550 West C Street, Suite 1200 San Diego, CA. 92101
Tel (619) 831–4600

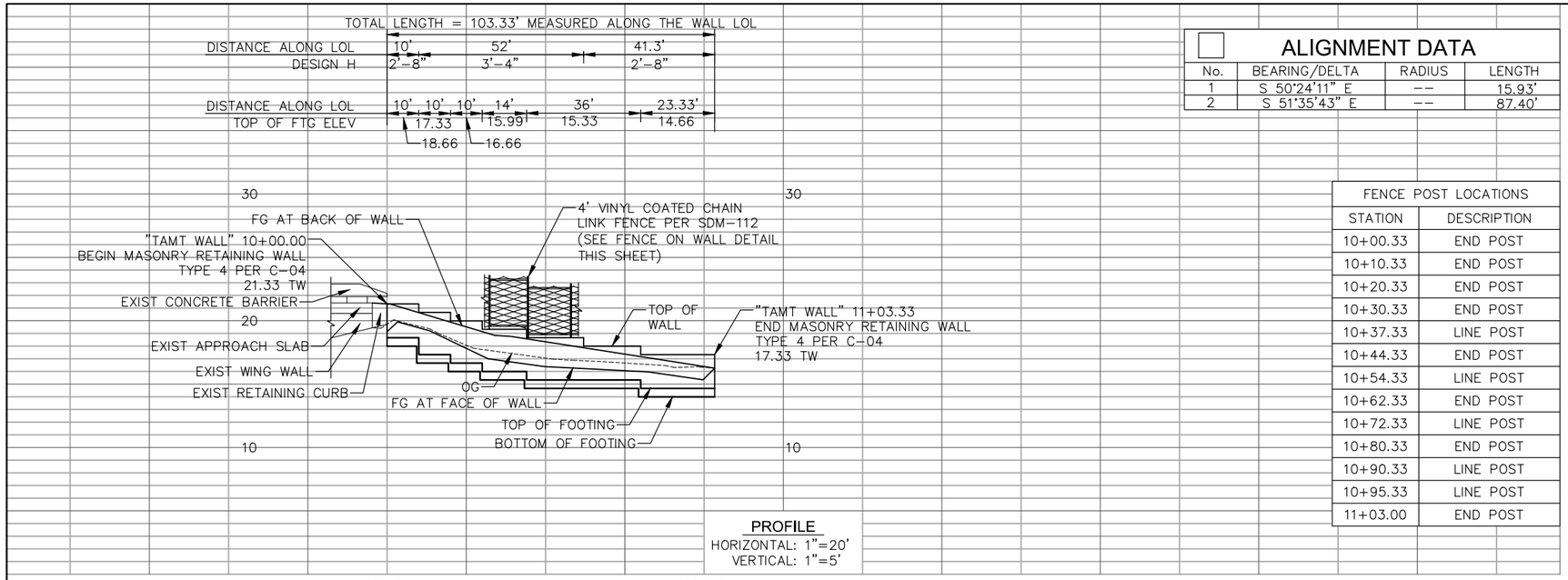
REGISTERED PROFESSIONAL ENGINEER JASON C. SANDERS C83976 CIVIL STATE OF CALIFORNIA

	DATE
DESIGNED BY M. PETROS	05/19
DRAWN BY T. BRITTAIN	05/19
CHECKED BY K. GAZAWAY	05/19
SANDAG PRJ MGR E. RODRIGUEZ	

SANDAG

SCALE: AS SHOWN
CONTRACT NO.
DRAWING NO.
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

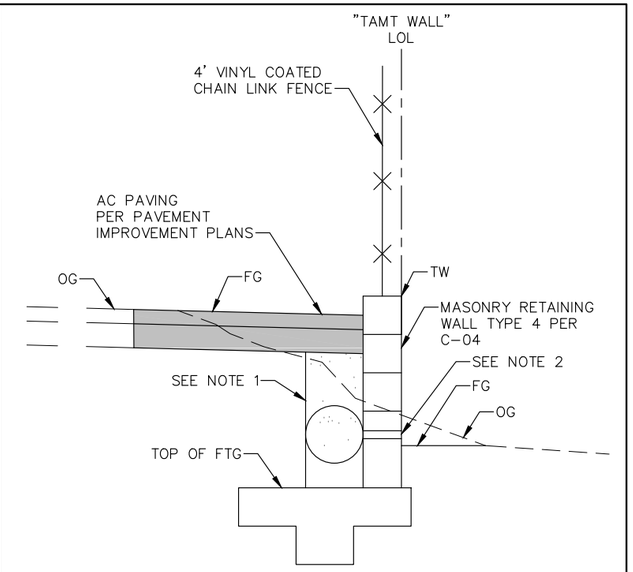


PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

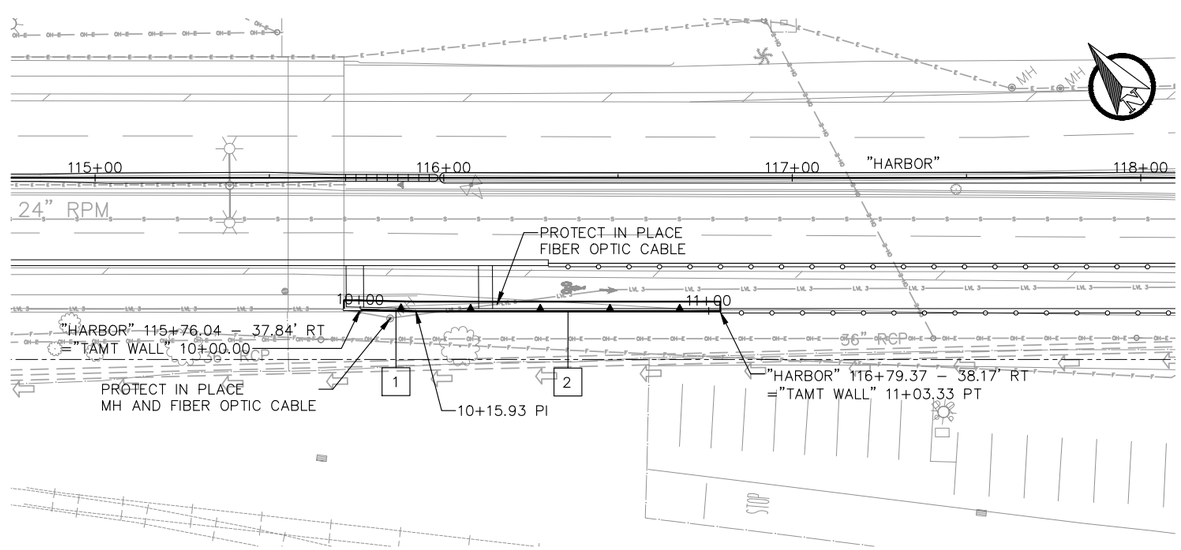
ALIGNMENT DATA

No.	BEARING/DELTA	RADIUS	LENGTH
1	S 50°24'11" E	--	15.93'
2	S 51°35'43" E	--	87.40'

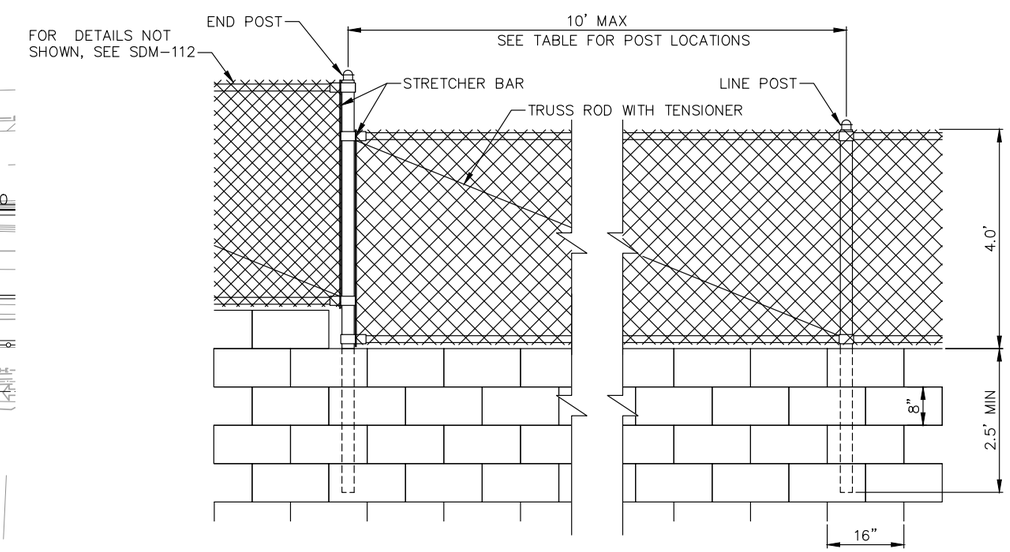
FENCE POST LOCATIONS	
STATION	DESCRIPTION
10+00.33	END POST
10+10.33	END POST
10+20.33	END POST
10+30.33	END POST
10+37.33	LINE POST
10+44.33	END POST
10+54.33	LINE POST
10+62.33	END POST
10+72.33	LINE POST
10+80.33	END POST
10+90.33	LINE POST
10+95.33	LINE POST
11+03.00	END POST



TYPICAL SECTION



PLAN



FENCE ON WALL DETAIL

NOTES:
1. PERVIOUS BACKFILL MATERIAL WRAPPED IN FILTER FABRIC CONTINUOUS BEHIND RETINING WALL.
2. 3" DIAMETER DRAINS AT 25' MAXIMUM CENTER TO CENTER.

20 0 20 40 FEET
1"=20'

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RIVERA	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

811 Know what's below. Call before you dig.

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

RETAINING WALLS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 149 OF 187 SHEETS

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

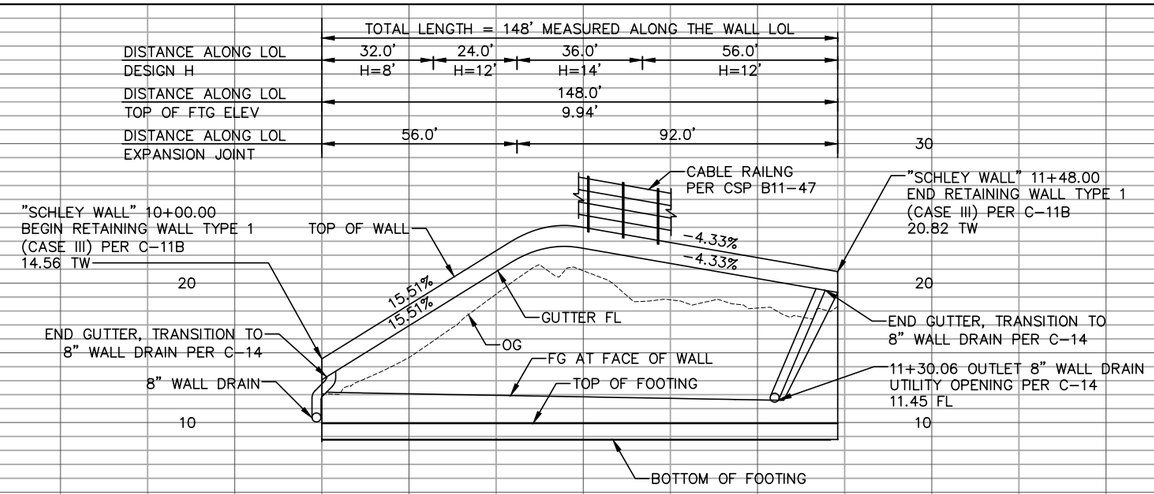
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

41370-149-D

NOT FOR CONSTRUCTION – MAY 6, 2019

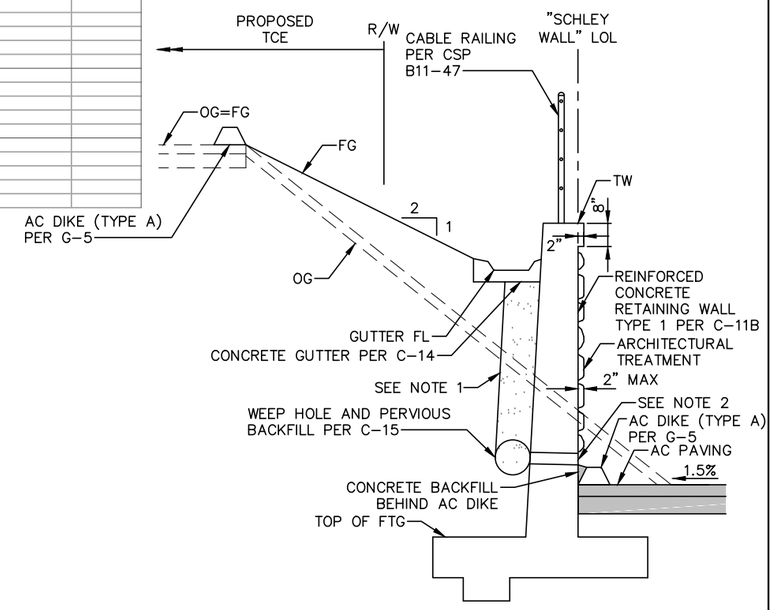
5/5/2019 4:58:17 PM



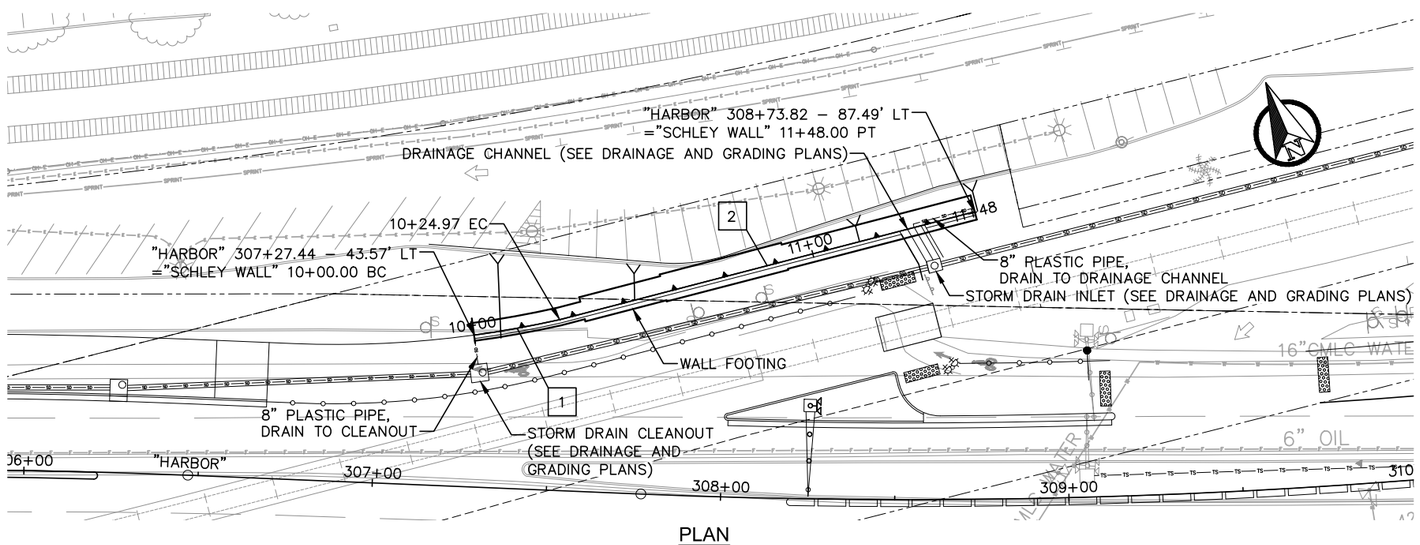
PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

VPI LOCATIONS			
No.	STATION	PI ELEV	REMARKS
1	10+63.90	24.47'	20' VC PER C-13A

TOP OF WALL	
STATION	TW ELEV
10+00.00	14.56
10+50.00	22.31
11+00.00	22.90
11+48.00	20.82



TYPICAL SECTION



PLAN

NOTES:
1. PERVIOUS BACKFILL MATERIAL WRAPPED IN FILTER FABRIC CONTINUOUS BEHIND RETINING WALL.
2. 3" DIAMETER DRAINS AT 25' MAXIMUM CENTER TO CENTER.

ALIGNMENT DATA			
No.	BEARING/DELTA	RADIUS	LENGTH
1	4°52'55"	293.00'	24.97'
2	S 81°17'17" E	--	123.03'

20 0 20 40 FEET
1"=20'

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RIVERA	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

RETAINING WALLS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 150 OF 187 SHEETS

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

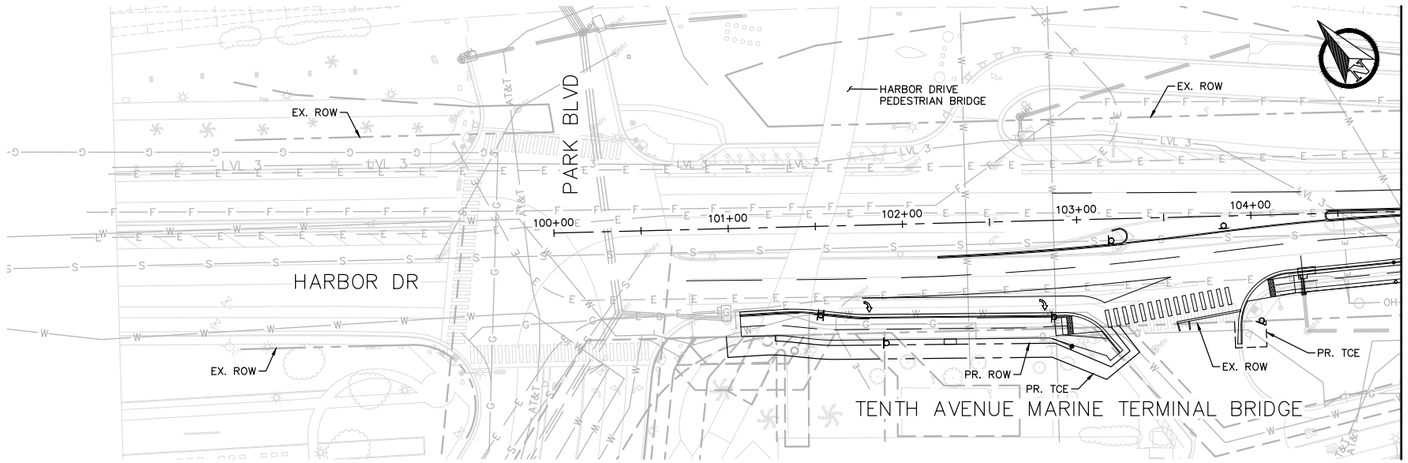
41370- 150-**D**

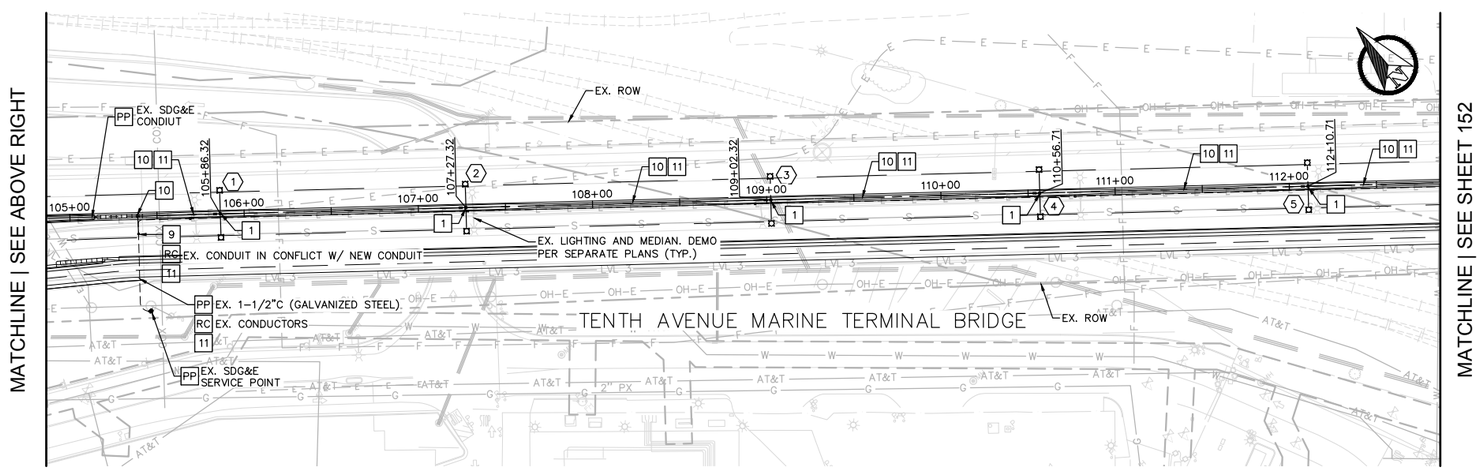
NOT FOR CONSTRUCTION – MAY 6, 2019

5/5/2019 5:00:18 PM

LIGHTING SCHEDULE

POLE NO.	POLE TYPE	POLE HEIGHT	LUMINAIRE TYPE	WATTS	REMARKS
1	15D	30'	(2) NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	(2) 133W	ALL NEW EQUIPMENT, SEE STRUCTURAL PLANS FOR DETAILS.
2	15D	30'	(2) NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	(2) 133W	ALL NEW EQUIPMENT, SEE STRUCTURAL PLANS FOR DETAILS.
3	15D	30'	(2) NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	(2) 133W	ALL NEW EQUIPMENT, SEE STRUCTURAL PLANS FOR DETAILS.
4	15D	30'	(2) NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	(2) 133W	ALL NEW EQUIPMENT, SEE STRUCTURAL PLANS FOR DETAILS.
5	15D	30'	(2) NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	(2) 133W	ALL NEW EQUIPMENT, SEE STRUCTURAL PLANS FOR DETAILS.





0' 40' 80'
SCALE: 1"= 40'

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
PWPI070116-01	STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2015 EDITION
PWPI070116-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2015 EDITION
PWPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PITS070112-04	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECS., 2010 EDITION

STANDARD DRAWINGS:

DOCUMENT NO.	DESCRIPTION
PWP1070116-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION
PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION

LIGHTING CONSTRUCTION NOTES:

- RC EQUIPMENT OR MATERIAL TO BE REMOVED AS NOTED.
- PP PROTECT IN PLACE AS NOTED.
- 1 NEW EQUIPMENT. SEE SCHEDULE ON THIS SHEET FOR DETAILS.
- 9 INTERCEPT EX. 1-1/2"C (GALVANIZED STEEL) WITH NEW 1-1/2"C (GALVANIZED STEEL) AND EXTEND TO NEW PULL BOX IN BARRIER.
- 10 1-1/2"C AND 9A SPLICE BOXES IN BARRIER TO BE INSTALLED PER BRIDGE PLANS. CONDUCTORS TO BE INSTALLED AS INDICATED ON THIS SHEET.
- 11 NEW 2#6, 1#6 GND.

* CONTRACTOR SHALL USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING CONDUIT & CONDUCTORS WHEN INSTALLING NEW PULL BOXES.

PUBLIC CONTRACT

STREET LIGHTING PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT
TENTH AVE MARINE TERMINAL BRIDGE

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 151 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370-151-D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN ASSOCIATES
Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CARPUZZI NO. 68816 REN. 12-30-20 CIVIL STATE OF CALIFORNIA

DESIGNED BY I. LOH, N.A.	DATE 5/19	
DRAWN BY I. LOH, N.A.	5/19	
CHECKED BY M. CAPUZZI	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

811 Know what's below. Call before you dig.

MAY 6, 2019

LIGHTING SCHEDULE

POLE NO.	POLE TYPE	POLE HEIGHT	LUMINAIRE TYPE	WATTS	REMARKS
6	15D	30'	(2) NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	(2) 133W	ALL NEW EQUIPMENT, SEE STRUCTURAL PLANS FOR DETAILS.
7	15D	30'	(2) NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	(2) 133W	ALL NEW EQUIPMENT, SEE STRUCTURAL PLANS FOR DETAILS.

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
PWPI070116-01	STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2015 EDITION
PWPI070116-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2015 EDITION
PWPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PITS070112-04	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECS., 2010 EDITION

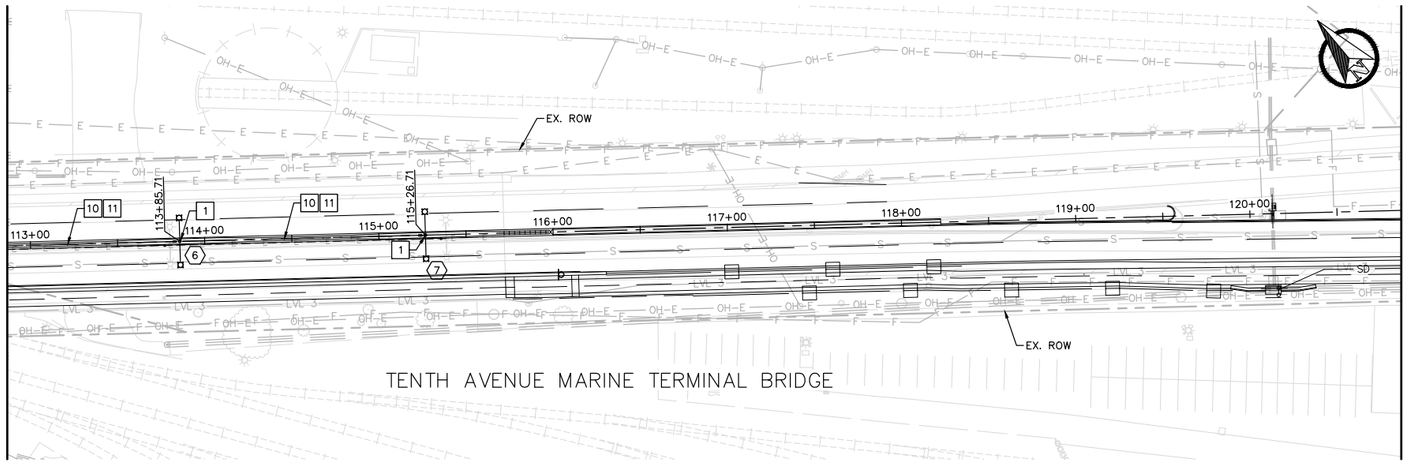
STANDARD DRAWINGS:

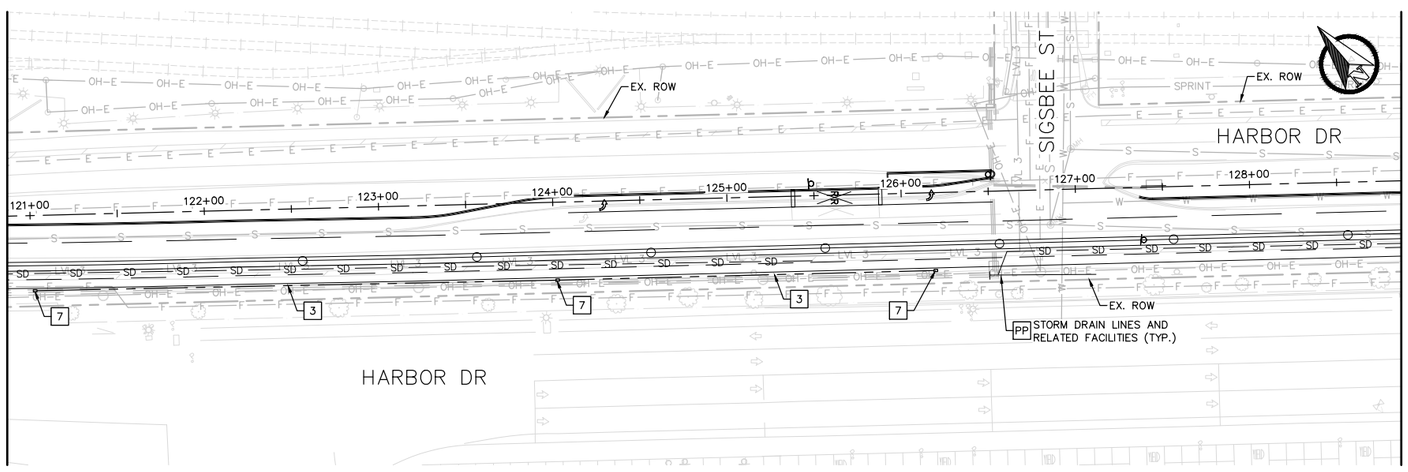
DOCUMENT NO.	DESCRIPTION
PWP1070116-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION
PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION

LIGHTING CONSTRUCTION NOTES:

- PP PROTECT IN PLACE AS NOTED.
- 1 NEW EQUIPMENT. SEE SCHEDULE ON THIS SHEET FOR DETAILS.
- 3 NEW 1-1/2"C. INSTALL IN BIKEWAY SHOULDER WHERE FEASIBLE.
- 7 NEW PULL BOX. NO. 5 UNLESS NOTED OTHERWISE.* INSTALL IN BIKEWAY SHOULDER WHERE FEASIBLE.
- 10 1-1/2"C AND 9A SPLICE BOXES IN BARRIER TO BE INSTALLED PER BRIDGE PLANS. CONDUCTORS TO BE INSTALLED AS INDICATED ON THIS SHEET.
- 11 NEW 2#6, 1#6 GND.

* CONTRACTOR SHALL USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING CONDUIT & CONDUCTORS WHEN INSTALLING NEW PULL BOXES.





0' 40' 80'
SCALE: 1"= 40'

PUBLIC CONTRACT

STREET LIGHTING PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT
T.A.M.T. BRIDGE & SIGSBEE ST

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 152 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-152-D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN ASSOCIATES
Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CARLSON No. 68816 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION 12-30-20

		DATE
DESIGNED BY	I. LOH, N.A.	5/19
DRAWN BY	I. LOH, N.A.	5/19
CHECKED BY	M. CAPUZZI	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

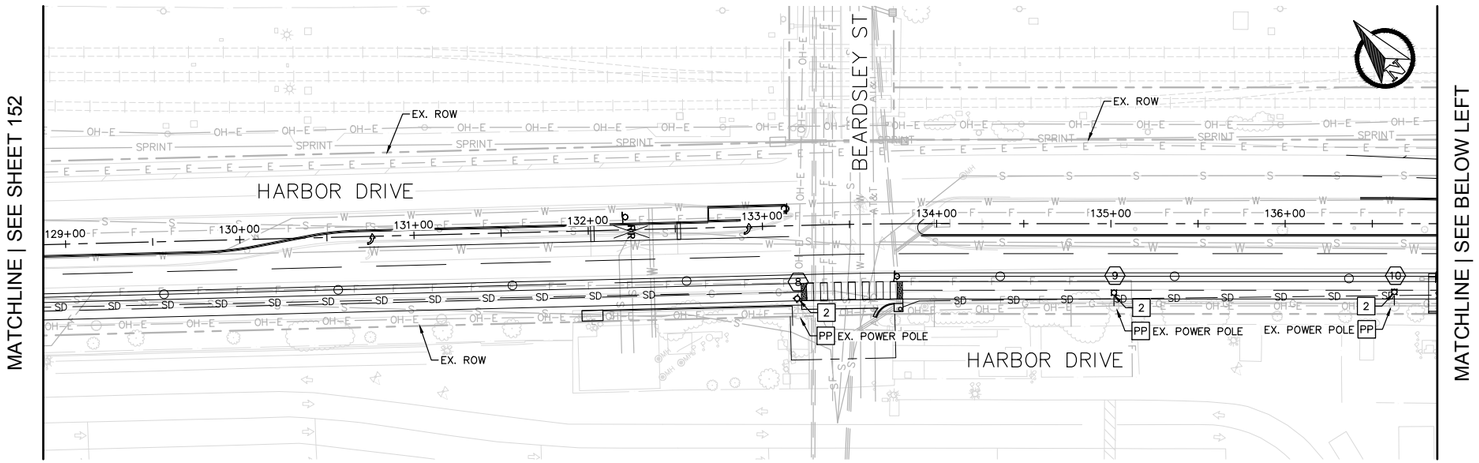
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

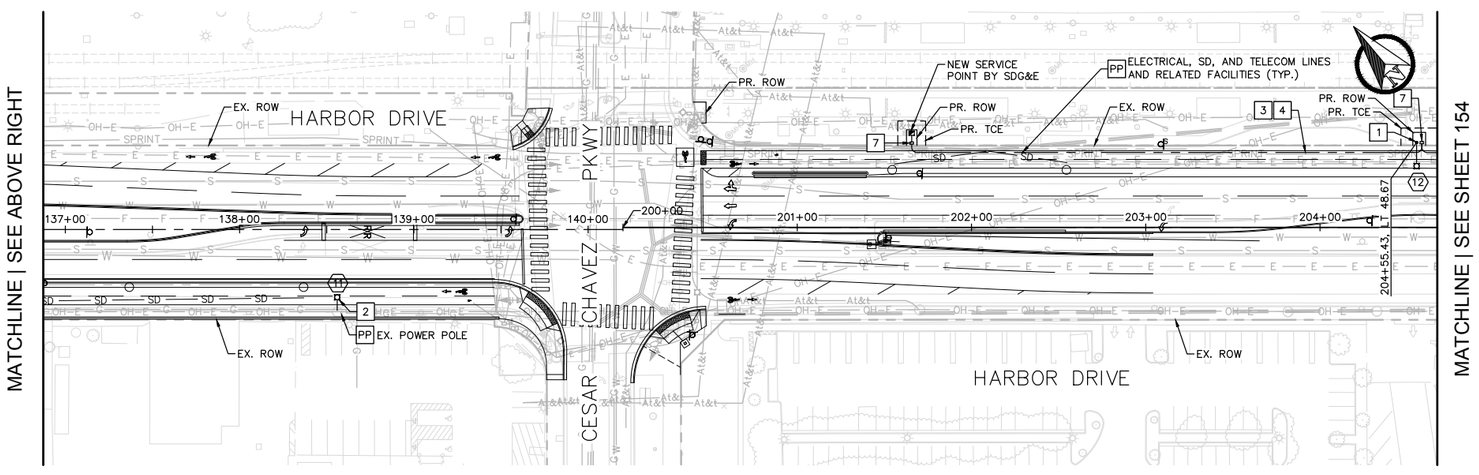
811 Know what's below. Call before you dig.

MAY 6, 2019

LIGHTING SCHEDULE

POLE NO.	POLE TYPE	POLE HEIGHT	LUMINAIRE TYPE	WATTS	REMARKS
8	EX.	EX.	NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	133W	SDG&E TO REMOVE EX. LUM. AND REPLACE WITH NEW LED LUM.
9	EX.	EX.	NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	133W	SDG&E TO INSTALL NEW ARM & LED LUMINAIRE.
10	EX.	EX.	NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	133W	SDG&E TO INSTALL NEW ARM & LED LUMINAIRE.
11	EX.	EX.	NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	133W	SDG&E TO INSTALL NEW ARM & LED LUMINAIRE.
12	15	30'	NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	133W	ALL NEW EQUIPMENT.





0' 40' 80'
SCALE: 1"= 40'

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
PWPI070116-01	STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2015 EDITION
PWPI070116-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2015 EDITION
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PITS070112-04	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECS., 2010 EDITION

STANDARD DRAWINGS:

DOCUMENT NO.	DESCRIPTION
PWP1070116-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION
PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION

LIGHTING CONSTRUCTION NOTES:

PP PROTECT IN PLACE AS NOTED.

1 NEW EQUIPMENT. SEE SCHEDULE ON THIS SHEET FOR DETAILS.

2 NEW EQUIPMENT. TO BE INSTALLED BY SDG&E.

3 NEW 1-1/2"C. INSTALL IN BIKEWAY SHOULDER WHERE FEASIBLE.

4 NEW 6#8, 1#8 GND.

7 NEW PULL BOX. NO. 5 UNLESS NOTED OTHERWISE.* INSTALL IN BIKEWAY SHOULDER WHERE FEASIBLE.

* CONTRACTOR SHALL USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING CONDUIT & CONDUCTORS WHEN INSTALLING NEW PULL BOXES.

PUBLIC CONTRACT

STREET LIGHTING PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT
CESAR E. CHAVEZ PKWY

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 153 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-153-D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN ASSOCIATES
Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CAPUZZI NO. 68816 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION 5/30/20

DESIGNED BY I. LOH, N.A.	DATE 5/19	
DRAWN BY I. LOH, N.A.	5/19	
CHECKED BY M. CAPUZZI	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

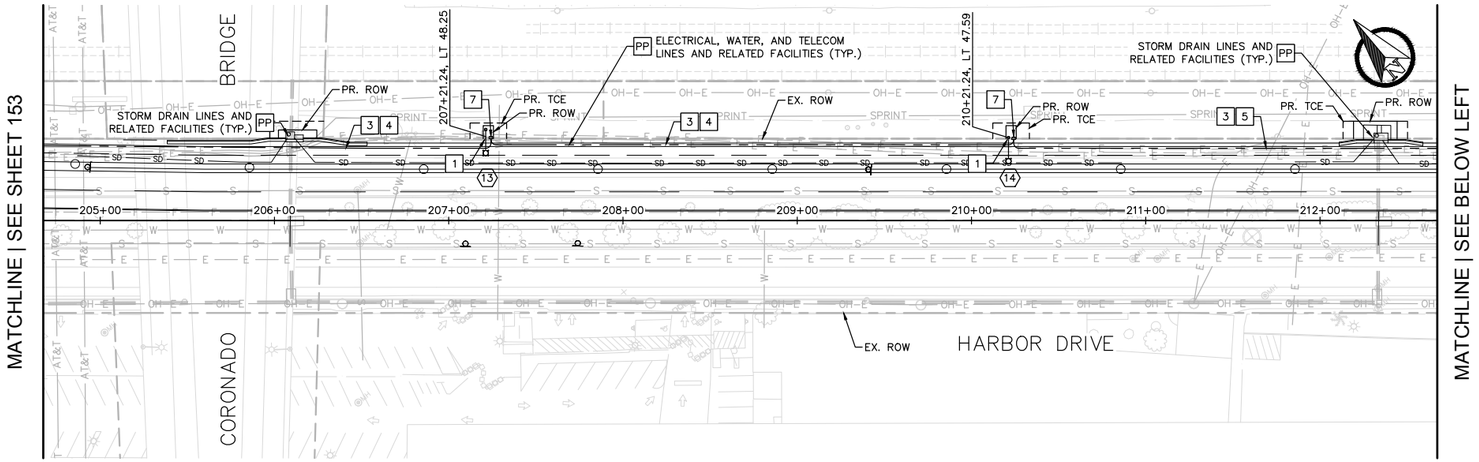
SANDAG

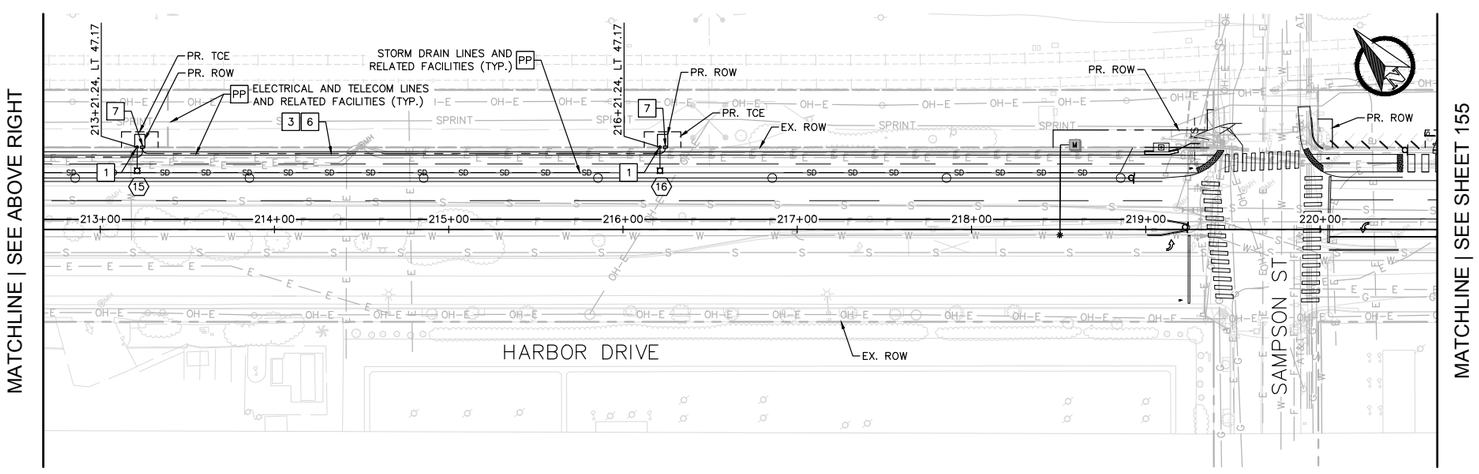
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

MAY 6, 2019

LIGHTING SCHEDULE

POLE NO.	POLE TYPE	POLE HEIGHT	LUMINAIRE TYPE	WATTS	REMARKS
13	15	30'	NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	133W	ALL NEW EQUIPMENT.
14	15	30'	NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	133W	ALL NEW EQUIPMENT.
15	15	30'	NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	133W	ALL NEW EQUIPMENT.
16	15	30'	NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	133W	ALL NEW EQUIPMENT.





0' 40' 80'
SCALE: 1"= 40'

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
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PWPI070116-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2015 EDITION
PWPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PITS070112-04	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECS., 2010 EDITION

STANDARD DRAWINGS:

DOCUMENT NO.	DESCRIPTION
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PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION

LIGHTING CONSTRUCTION NOTES:

- PP PROTECT IN PLACE AS NOTED.
- 1 NEW EQUIPMENT. SEE SCHEDULE ON THIS SHEET FOR DETAILS.
- 3 NEW 1-1/2"C. INSTALL IN BIKEWAY SHOULDER WHERE FEASIBLE.
- 4 NEW 6#8, 1#8 GND.
- 5 NEW 4#8, 1#8 GND.
- 6 NEW 2#8, 1#8 GND.
- 7 NEW PULL BOX. NO. 5 UNLESS NOTED OTHERWISE.* INSTALL IN BIKEWAY SHOULDER WHERE FEASIBLE.

* CONTRACTOR SHALL USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING CONDUIT & CONDUCTORS WHEN INSTALLING NEW PULL BOXES.

PUBLIC CONTRACT

STREET LIGHTING PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT
SAMPSON ST

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 154 OF 187 SHEETS

PROJECT NO. _____
V.T.M. _____

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370-154-D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN ASSOCIATES
Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CABLE C 68810 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION 10-30-20

		DATE
DESIGNED BY	I. LOH, N.A.	5/19
DRAWN BY	I. LOH, N.A.	5/19
CHECKED BY	M. CAPUZZI	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

811 Know what's below. Call before you dig.

MAY 6, 2019

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
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PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION

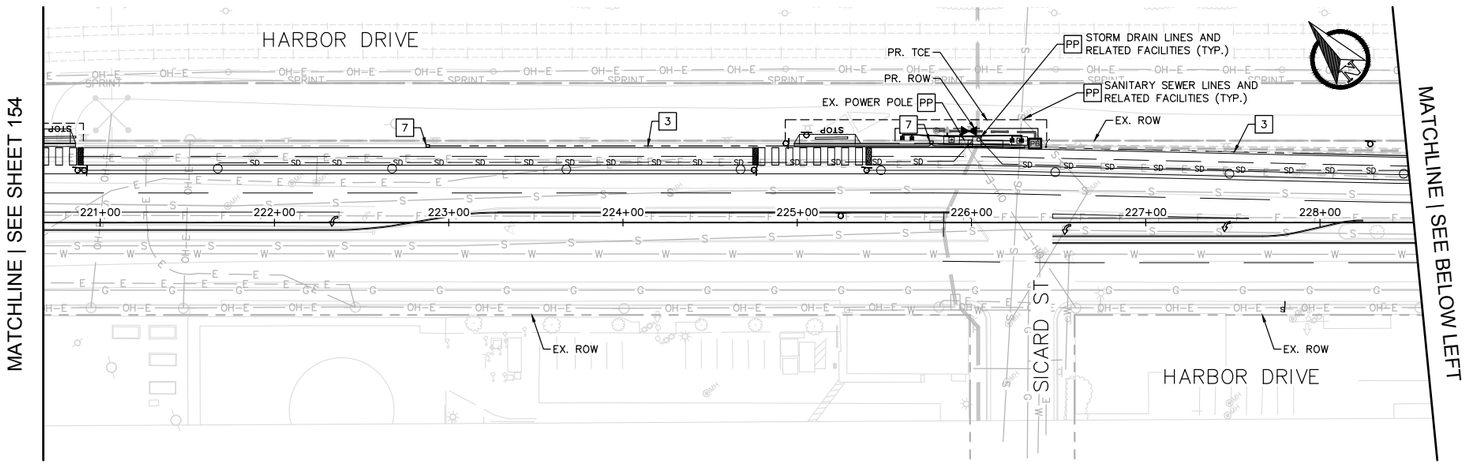
LIGHTING CONSTRUCTION NOTES:

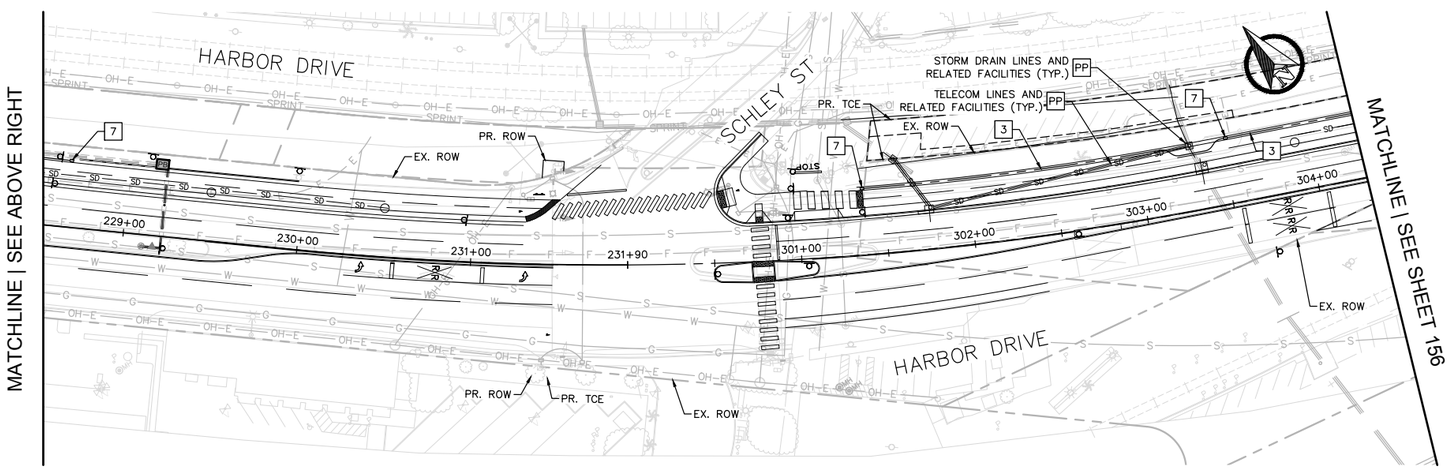
PP PROTECT IN PLACE AS NOTED.

3 NEW 1-1/2"C. INSTALL IN BIKEWAY SHOULDER WHERE FEASIBLE.

7 NEW PULL BOX. NO. 5 UNLESS NOTED OTHERWISE.* INSTALL IN BIKEWAY SHOULDER WHERE FEASIBLE.

* CONTRACTOR SHALL USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING CONDUIT & CONDUCTORS WHEN INSTALLING NEW PULL BOXES.





0' 40' 80'

SCALE: 1"= 40'

PUBLIC CONTRACT

STREET LIGHTING PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT
SICARD ST & SCHLEY ST

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 155 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370-155-D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN ASSOCIATES

Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CRAIG No. 76890 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION 10/30/20

		DATE
DESIGNED BY	I. LOH, N.A.	5/19
DRAWN BY	I. LOH, N.A.	5/19
CHECKED BY	M. CAPUZZI	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN

CONTRACT NO. –

DRAWING NO. –

SHEET NO.

MAY 6, 2019

LIGHTING SCHEDULE

POLE NO.	POLE TYPE	POLE HEIGHT	LUMINAIRE TYPE	WATTS	REMARKS
17	15	30'	NXT-60M-5-7-3LB-7-GY-3-UL-X-2H	133W	ALL NEW EQUIPMENT.

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
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PWPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PITS070112-04	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECS., 2010 EDITION

STANDARD DRAWINGS:

DOCUMENT NO.	DESCRIPTION
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PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION

LIGHTING CONSTRUCTION NOTES:

PP PROTECT IN PLACE AS NOTED.

1 NEW EQUIPMENT. SEE SCHEDULE ON THIS SHEET FOR DETAILS.

3 NEW 1-1/2"C. INSTALL IN BIKEWAY SHOULDER WHERE FEASIBLE.

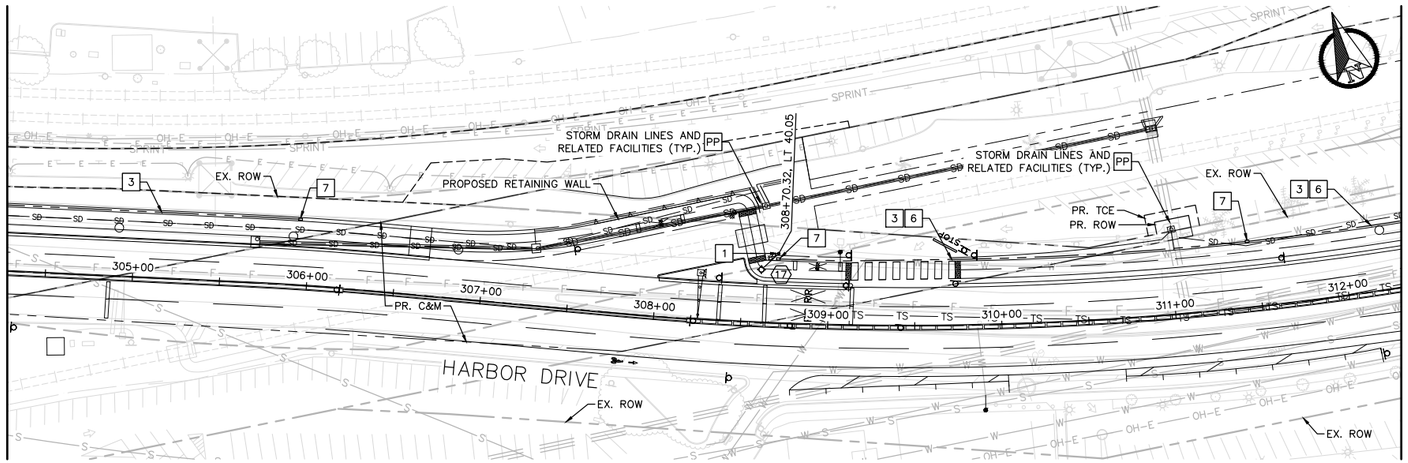
6 NEW 2#8, 1#8 GND.

7 NEW PULL BOX. NO. 5 UNLESS NOTED OTHERWISE.* INSTALL IN BIKEWAY SHOULDER WHERE FEASIBLE.

8 INSTALL NEW CONDUIT INTO PULL BOX AND SPLICE CONDUCTORS.

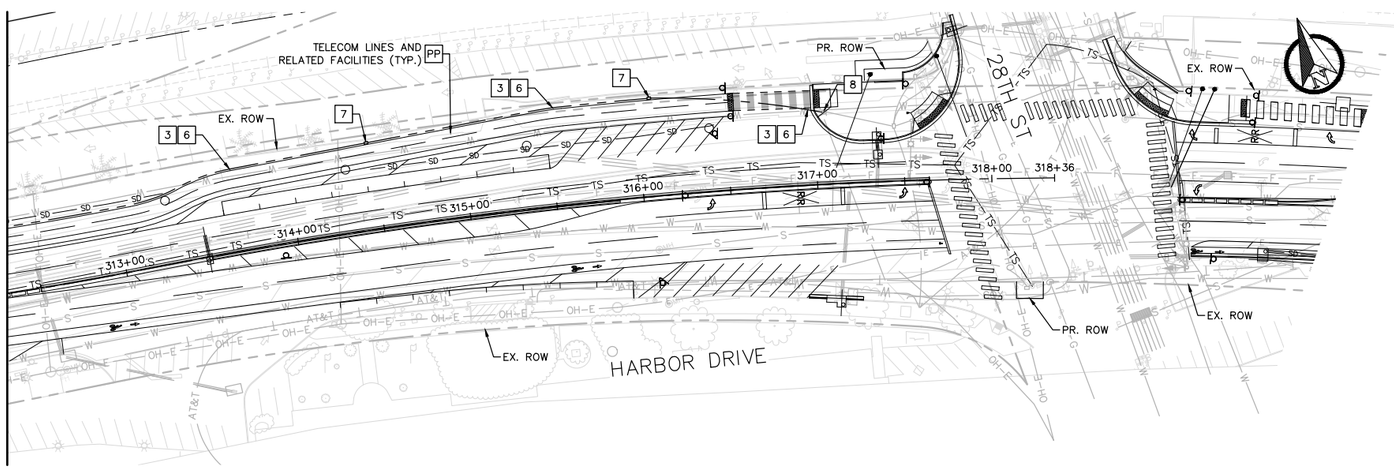
* CONTRACTOR SHALL USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING CONDUIT & CONDUCTORS WHEN INSTALLING NEW PULL BOXES.

MATCHLINE | SEE SHEET 155



MATCHLINE | SEE BELOW LEFT

MATCHLINE | SEE ABOVE RIGHT



0' 40' 80'

SCALE: 1"= 40'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

STREET LIGHTING PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

28TH STREET

CITY OF SAN DIEGO, CALIFORNIA

DEVELOPMENT SERVICES DEPARTMENT

SHEET 156 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287 NAD83 COORDINATES

XXX-XXXX LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____

INSPECTOR _____ DATE COMPLETED _____

41370-156-D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN ASSOCIATES

Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CAPUZZI No. 68819 CIVIL STATE OF CALIFORNIA

NOT FOR CONSTRUCTION 6/30/20

DESIGNED BY	I. LOH, N.A.	DATE 5/19
DRAWN BY	I. LOH, N.A.	5/19
CHECKED BY	M. CAPUZZI	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN

CONTRACT NO. –

DRAWING NO. –

SHEET NO.

MAY 6, 2019

POLE & EQUIPMENT SCHEDULE

NO.	STANDARD TYPE	STANDARD HEIGHT	STANDARD MAST ARM LEN. SIG.	STANDARD MAST ARM LEN. LUM.	LUM.	STD. POLE PLACEMENT A	STD. POLE PLACEMENT B	SIGNAL MOUNTING AND PLACEMENT: VEHICLE SIGNAL MOUNTING	VEHICLE SIGNAL INDICATION	VEHICLE SIGNAL PHASE	PED SIGNAL MOUNTING	PED SIGNAL PHASE	PED PUSH BUTTON LOCATION	PED PUSH BUTTON PHASE	NOTES
A	EX.	EX.	EX.	EX.	EX.	EX.	EX.	MAS MAS SV-2-TA	RA,YA,GA R,Y,G R,Y,G R,Y,G	Ø1 Ø6 Ø6 Ø8	EX.	Ø4P Ø6P	a	Ø4P Ø6P	REMOVE AND SAVE EX. VIDEO DETECTION UNIT AND EQUIP. FOR REUSE. REMOVE EX POLE, MAST ARM, SIGNS, FOUNDATION AND ALL OTHER EQUIP.
B	29-5-100	30'	50'	15'	LED 133W	STA 139+68.78, 57.38' LT		MAS MAS MAS SV-2-TB MISC. EQ.	RA,YA,GA R,Y,G R,Y,G R,Y,G R,Y,G B.O.	Ø1 Ø6 Ø6 Ø6 Ø8 RR	SP-2-T	Ø4P Ø6P	b	Ø4P Ø6P	ALL NEW EQUIPMENT. INSTALL NEW SIGNS PER PLAN.
C	EX.	EX.	45'TBV	10'TBV	LED 133W	EX.	EX.	MAT MAS SV-2-TB MISC. EQ.	R,Y,G R,Y,G,FYA R,Y,G,FYA RA,YA,GA B.O.	Ø8 Ø8 Ø8 Ø5 Ø8LPI	SP-2-T	Ø6P Ø8P	b	Ø6P Ø8P	REMOVE EX. Ø8 SV-2-TB MOUNTED (R,Y,G) VEH. HEAD AND EX. Ø8 MAS MOUNTED (R,Y,G) VEH. HEAD. REPLACE BOTH WITH NEW (R,Y,G,FYA) VEH. HEADS. REMOVE EX. Ø8P PED. HEAD AND REPLACE WITH NEW LED COUNTDOWN PED. HEAD. REMOVE EX. LUMINAIRE AND REPLACE WITH NEW LED LUMINAIRE. INSTALL NEW SIGNS PER PLAN. PROTECT IN PLACE ALL OTHER EX. EQUIPMENT.
D	EX.	EX.	EX.	EX.	EX.	EX.	EX.	MAT MAS SV-2-TB	R,Y,G R,Y,G R,Y,G RA,YA,GA	Ø5 Ø2 Ø2 Ø4	EX.	Ø2P Ø8P	a	Ø2P Ø8P	REMOVE EX. POLE, MAST ARM, SIGNS, FOUNDATION AND ALL EQUIPMENT.
E	29-5-100	30'	55'	15'	LED 133W	5'	6.5'	MAS MAS MAS SV-2-TB MISC. EQ.	RA,YA,GA R,Y,G R,Y,G,FYA R,Y,G,FYA R,Y,G B.O.	Ø5 Ø2 Ø2 Ø2 Ø4 Ø2LPI	SP-1-T	Ø2P	b	Ø8P	ALL NEW EQUIPMENT. INSTALL NEW SIGNS PER PLAN.
F	1-A	10'	–	–	–	24'	6'	TV-1-T	R,Y,G,FYA	Ø8	SP-1-T	Ø8P	a	Ø2P	ALL NEW EQUIPMENT.
G	EX.	EX.	EX.	EX.	LED 133W	EX.	EX.	MAS SV-1-T	R,Y,G R,Y,G	Ø4 Ø4	SP-1-T	Ø4P	a	Ø4P	REMOVE EX. PPB. REMOVE EXISTING LUMINAIRE AND REPLACE WITH NEW LED LUMINAIRE. PROTECT IN PLACE ALL OTHER EX. EQUIPMENT. INSTALL NEW SIGNS PER PLAN.
H	EX.	EX.	–	–	–	EX.	EX.	TV-1-T	RA,YA,GA	Ø1	SP-1-T	Ø2P	a	Ø2P	REMOVE EX. Ø2P PED. HEAD AND REPLACE WITH NEW LED COUNTDOWN PED. HEAD. REMOVE EX. PPB. INSTALL NEW SIGN PER PLAN. PROTECT IN PLACE ALL OTHER EX. EQUIPMENT.
I	PPB	3.5'	–	–	–	13.0'	6.5'	–	–	–	–	–	a	Ø2P	ALL NEW EQUIPMENT.
J	1-A	10'	–	–	–	14.5'	7.0'	TV-1-T	R,Y,G,FYA	–	–	–	a	Ø4P	ALL NEW EQUIPMENT.

NOTE: LUMINAIRE TYPE, NXT-60M-5-7-3LB-7-GY-3-UL-X-2H.

DETECTOR SCHEDULE

DETECTOR	PHASE	SLOT	TERMINAL
1	Ø6	J2U	T3-5&6
2	Ø6	J2L	T3-7&8
3	Ø6	J4U	T5-1&2
4	Ø6	J4L	T5-3&4
5	Ø8P	J7U	T7-1&2
6	Ø1	I1U	T2-1&2
7	Ø2	I2U	T2-5&6
8	Ø2	I2L	T2-7&8
9	Ø2	I4U	T4-1&2
10	Ø2	I4L	T4-3&4
11	Ø2P	I3U	T2-9&10
12	Ø5	J1U	T3-1&2
13	Ø4	I6U	T4-9&10
14	Ø4	I6L	T4-11&12
15	Ø4	I8U	T6-5&6
16	Ø4	I8L	T6-7&8
17	Ø8	J8U	VIDEO
18	Ø8	J8L	VIDEO
PPB	Ø2P	I12U	T8-4&COM6
PPB	Ø4P	I12L	T8-5&COM6
PPB	Ø6P	I13U	T8-7&COM9
PPB	Ø8P	I13L	T8-8&COM9
EVA	Ø2+Ø5	J12U	T9-4&COM6
EVB	Ø4	J13U	T9-7&COM9
EVC	Ø1+Ø6	J12L	T9-5&COM6
EVD	Ø8	J13L	T9-8&COM9
FLASH SENSE		I14U	T8-10&COM12
RR2 LTD OPE		I14L	T9-11&COM12

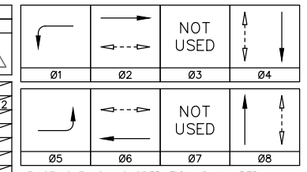
CONDUIT & CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE AND RUN 3-4" (1)	3-4" (2)	2-4" (3)	2-3" (4)	2-3" (5)	2-3" (6)	3" (7)	3" (8)	3" (9)
3 CONDUCTOR		POLE B	2 2 2 2								
		POLE C	2 2 2 2							2 2 2 2	
		POLE E	1 2 1 2	1 2	1 2	1 2	1 2	1 2	1 2		
		POLE F	1 1 1 1	1 1	1 1	1 1	1 1	1 1			
		POLE G	1 1 1 1		1 1	1 1					
		POLE H	1 1 1 1		1 1	1 1					
		POLE I	1 1 1 1	1 1	1 1	1 1					
12 CONDUCTOR		POLE J	1 1 1 1		1 1						
TOTAL CABLES			8 10 8 10	4 6	3 5	3 4	2 3	1 2	2 2	2 2	2 2
#6		SIGNAL SERVICE	2 2								
#8		COMMON GROUND	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	
#10		SAFETY LIGHTING			2 2	2 2	2 2	2 2	2 2		
#14		RR PREEMPTION	6 6								
6P#22		INTERCONNECT	1 1								
TYPE 'B' DLC	Ø1	LOOP DETECTOR	1 1							1 1	
	Ø2	" "	4 4	4							
	Ø2P	" "	1 1	1 1	1 1						
	Ø4	" "	4 4								
	Ø5	" "	1 1	1 1	1						
	Ø6	" "	4 4							4 4	
	Ø8P	" "	1 1							1 1	
EV-DLC		EV DETECTION	4 4	2 2	2 2	1 1	1 1				
VIDEO CABLE		VIDEO DETECTION	1 1								
VIDEO COAX			1 1								
TOTAL CONDUCTORS / CABLES			50 50	21 14	12 9	7 14	14				
CONDUIT FILL			22% 22%	17% 23%	19% 14%	19% 27%	27%				

NOTE: ALL NEW WIRING UNLESS NOTED AS EXISTING

NOTE: CONTRACTOR IS RESPONSIBLE TO USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING LOOP DETECTORS.

EXISTING PHASE DIAGRAM



EXISTING FLASHING OPERATION IS ALL RED.
LEADING PEDESTRIAN INTERVAL GIVEN IN Ø2, Ø8, Ø4, AND Ø6.

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
PWPI070116-01	STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2015 EDITION
PWPI070116-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2015 EDITION
PWPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PITS070112-04	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECS. 2010 EDITION

STANDARD DRAWINGS:

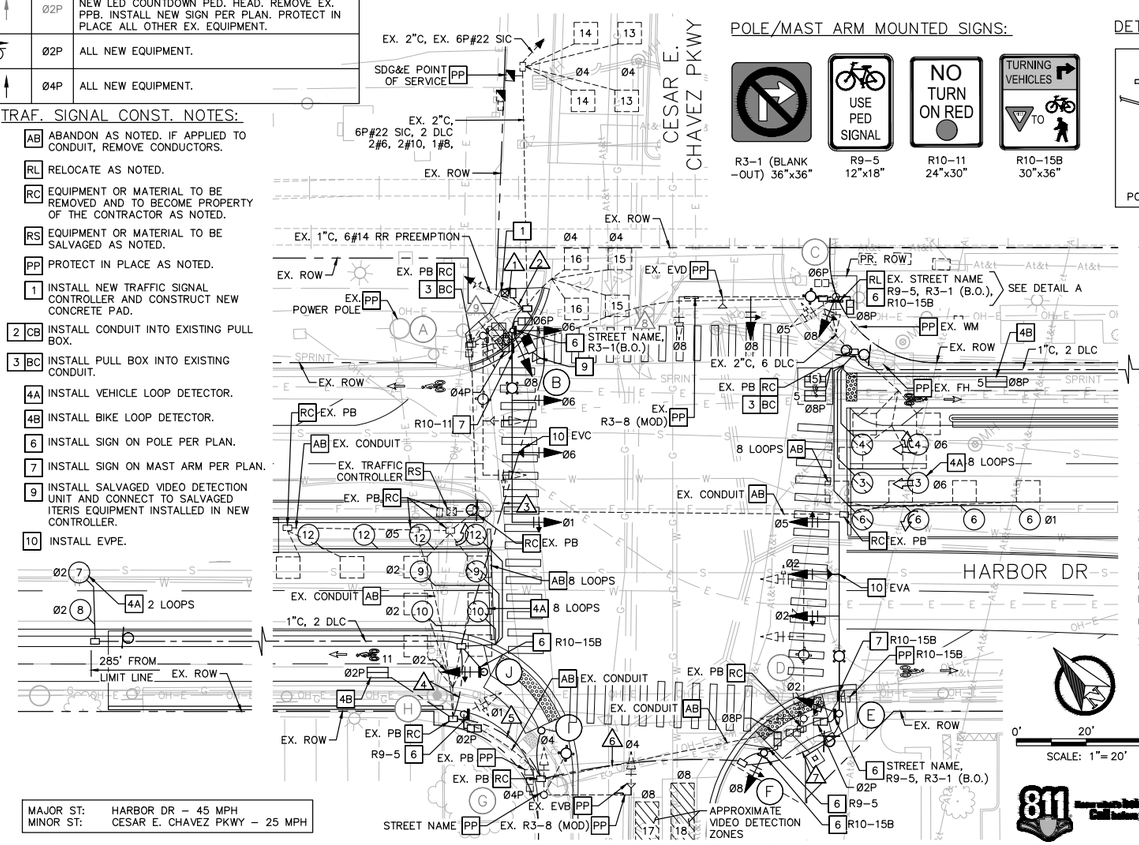
DOCUMENT NO.	DESCRIPTION
PWP1070116-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION
PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION

TRAFFIC SIGNAL GENERAL NOTES:

1. PULL BOXES SHALL BE NO.6, AND CONDUIT 3" UNLESS NOTED OTHERWISE.
2. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE.
3. THE TRAFFIC SIGNAL CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PLAN PERMIT FROM THE CITY OF SAN DIEGO PERMIT CENTER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
4. ALL TRAFFIC SIGNAL POLE FOUNDATIONS SHALL HAVE A 3" CONDUIT INSTALLED TO THE ADJACENT PULL BOX AND THE CONTROLLER FOUNDATION SHALL HAVE A SPARE 3" CONDUIT INSTALLED TO THE ADJACENT #6 PULL BOX FOR FUTURE USE.
5. THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF LOOP DETECTORS, TRAFFIC STRIPING, PAVEMENT MARKINGS, PARKING REMOVAL AND TRAFFIC SIGNING (EXCEPT "G" SERIES STREET NAME SIGNS) AS SHOWN ON THESE PLANS.
6. THE TRAFFIC SIGNAL CONTRACTOR SHALL OBTAIN THE APPROVAL OF CITY RESIDENT ENGINEER OF THE LOOP LOCATION PRIOR TO CUTTING AND THE STRIPING, PAVEMENT MARKING, PARKING REMOVAL AND SIGN LOCATIONS PRIOR TO PAINTING AND INSTALLATION.
7. AFTER APPROVAL OF LOCATION, THE TRAFFIC SIGNAL CONTRACTOR SHALL WAIT A MINIMUM OF FIFTEEN (15) WORKING DAYS BEFORE PERMANENTLY REMOVING ANY PARKING, SO THAT ADVANCE NOTICE TO ADJACENT PROPERTY OWNERS CAN BE MADE BY THE CITY.
8. THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL UNNECESSARY AND CONFLICTING STRIPING AND PAVEMENT MARKING.
9. THE TRAFFIC SIGNAL CONTRACTOR SHALL NOT ERECT ANY SIGNAL STANDARDS MORE THAN THREE (3) WEEKS PRIOR TO SCHEDULED TRAFFIC SIGNAL TURN ON.
10. CONTRACTOR SHALL PROVIDE ALL CABLING AND CONDUCTORS NECESSARY TO PERFORM ALL FUNCTIONS SHOWN ON THESE PLANS.
11. ALL POLES, CONDUIT, PULL BOXES, STRIPING AND LOOP DETECTOR LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND AS DIRECTED BY THE CITY OF SAN DIEGO.
12. ROUTING AND LOCATIONS OF UNDERGROUND ELECTRICAL SYSTEM IS DIAGRAMMATIC AND SUBJECT TO APPROVAL OF THE ENGINEER. UNDERGROUND ELECTRICAL LINES AND SUBSURFACE STRUCTURES MAY BE RELOCATED IF NECESSARY TO CLEAR OTHER EXISTING UNDERGROUND FACILITIES.
13. ALL TREES AND SHRUBS SHALL BE TRIMMED OR REMOVED AS DETERMINED BY THE CITY RESIDENT ENGINEER AS REQUIRED TO MAINTAIN SIGNAL HEAD VISIBILITY AND SIGHT DISTANCE.
14. ALL VEHICLE SIGNAL HEADS SHALL BE 12" WITH BACKPLATES.
15. ALL SIGNAL AND PEDESTRIAN INDICATIONS SHALL BE L.E.D.
16. ALL LOOPS TO BE TYPE "E" AS SHOWN ON THIS PLAN. LOOP DETECTORS SHALL BE 6' DIAMETER WITH 10' SPACING AND POSITIONED IN CENTER OF LANE UNLESS OTHERWISE SHOWN. SEE CALIFORNIA STANDARD PLAN SHEET ES-5B, FOR DETECTOR LEGEND AND DETAILS. FRONT LOOPS SHALL BE MODIFIED TYPE "E" LOOPS PER SDE-104.
17. PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS SHALL BE INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS SHALL BE 16"X18" L.E.D. COUNTDOWN INDICATIONS. PEDESTRIAN PUSH BUTTONS SHALL BE 2" PER ADA REQUIREMENTS.
18. PLACE TEXTURED HORIZONTAL YELLOW BAND 2 INCHES IN WIDTH ENCIRCLING THE POLE, AND A 1 INCH WIDE DARK BORDER BAND ABOVE AND BELOW THIS YELLOW BAND WHEN PPB ARE PLACED ON A TRAFFIC SIGNAL POLE. (PER CALIFORNIA BUILDING CODE 11B-703.7.2.7).

TRAF. SIGNAL CONST. NOTES:

- AB ABANDON AS NOTED. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RL RELOCATE AS NOTED.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND TO BECOME PROPERTY OF THE CONTRACTOR AS NOTED.
- RS EQUIPMENT OR MATERIAL TO BE SALVAGED AS NOTED.
- PP PROTECT IN PLACE AS NOTED.
- 1 INSTALL NEW TRAFFIC SIGNAL CONTROLLER AND CONSTRUCT NEW CONCRETE PAD.
- 2 CB INSTALL CONDUIT INTO EXISTING PULL BOX.
- 3 BC INSTALL PULL BOX INTO EXISTING CONDUIT.
- 4A INSTALL VEHICLE LOOP DETECTOR.
- 4B INSTALL BIKE LOOP DETECTOR.
- 6 INSTALL SIGN ON POLE PER PLAN.
- 7 INSTALL SIGN ON MAST ARM PER PLAN.
- 9 INSTALL SALVAGED VIDEO DETECTION UNIT AND CONNECT TO SALVAGED ITERIS EQUIPMENT INSTALLED IN NEW CONTROLLER.
- 10 INSTALL EVPE.

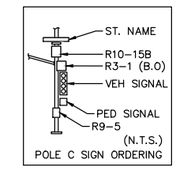


MAJOR ST: HARBOR DR – 45 MPH
MINOR ST: CESAR E. CHAVEZ PKWY – 25 MPH

POLE/MAST ARM MOUNTED SIGNS:

R3-1 (BLANK -OUT) 36"x36" | R9-5 12"x18" | R10-11 24"x30" | R10-15B 30"x36"

DETAIL A:



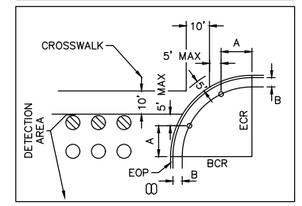
POLE C SIGN ORDERING

SPECIAL NOTE:

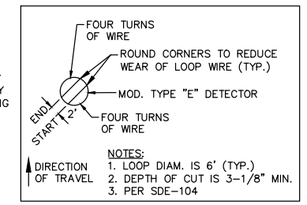
CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF EXCAVATION:

UNDERGROUND SERVICE ALERT (USA)
1-800-422-4133

DETECTOR LOOP & POLE DETAIL



SAWCUT & WINDING DETAIL



NOTES:
1. LOOP DIAM. IS 6' (TYP.)
2. DEPTH OF CUT IS 3-1/8" MIN.
3. PER SDE-104

PUBLIC CONTRACT

TRAFFIC SIGNAL PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT
CESAR E. CHAVEZ PKWY

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 157 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

41370-157-D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN ASSOCIATES
Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CARLSON NO. 68819 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION 10-30-20

		DATE
DESIGNED BY	I. LOH, N.A.	5/19
DRAWN BY	I. LOH, N.A.	5/19
CHECKED BY	M. CAPUZZI	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

MAY 6, 2019

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD TYPE	STANDARD HEIGHT	STANDARD MAST ARM LEN. SIG.	STANDARD MAST ARM LEN. LUM.	LUM.	STD. POLE PLACEMENT A	STD. POLE PLACEMENT B	SIGNAL MOUNTING AND PLACEMENT: VEHICLE SIGNAL MOUNTING	VEHICLE SIGNAL INDICATION	VEHICLE SIGNAL PHASE	PED SIGNAL MOUNTING	PED SIGNAL PHASE	PED PUSH BUTTON LOCATION	PED PUSH BUTTON PHASE	NOTES
(A)	PPB	3.5'	–	–	–	STA 219+37.87, 47.04' LT		–	–	–	–	–		Ø4P Ø6P	ALL NEW EQUIPMENT.
(B)	EX.	EX.	EX.	EX.	EX.	EX.	EX.	MAS MAS SV-2-TB	RA,YA,GA R,Y,G R,Y,G RA,YA,GA	Ø1 Ø6 Ø6 Ø3	SP-2-T	Ø4P Ø6P		Ø4P Ø6P	REMOVE EX. POLE, MAST ARM, SIGNS, FOUNDATION AND ALL EQUIPMENT.
(C)	29-5-100	30'	50'	15'	LED 133W	STA 219+24.25, 46.21' LT		MAS MAS MAS SV-2-TB MISC. EQ.	RA,YA,GA R,Y,G RA,YA,GA R,Y,G,FYA RA,YA,GA B.O	Ø1 Ø6 Ø6 Ø3 Ø6 Ø6LPI/RR	SP-2-T	Ø4P Ø6P	–	–	ALL NEW EQUIPMENT.
(D)	1-A	10'	–	–	–	STA 219+96.05, 46.81' LT		TV-1T	R,Y,G,FYA	Ø3P Ø6P	SP-2-T	Ø3P Ø6P		Ø3P Ø6P	ALL NEW EQUIPMENT.
(E)	EX.	EX.	EX.	EX.	LED 133W	EX.	EX.	MAS SV-2-TB	R,Y,G,GA R,Y,G RA,YA,GA	Ø3 Ø3 Ø5	SP-2-T	Ø3P Ø6P		Ø3P Ø6P	REMOVE EX PPB(S). REMOVE EX. Ø6P AND Ø3P PED. HEAD. REMOVE EX. LUMINAIRE AND REPLACE WITH NEW LED LUMINAIRE. PROTECT IN PLACE ALL OTHER EX. EQUIPMENT. INSTALL NEW SIGNS PER PLAN.
(F)	EX.	EX.	EX.	EX.	EX.	EX.	EX.	MAS MAS MAS SV-2-TB	RA,YA,GA R,Y,G R,Y,G R,Y,G RA,YA,GA	Ø5 Ø2 Ø2 Ø2 Ø4	SP-2-T	Ø2P Ø3P		Ø2P Ø3P	EXISTING EQUIPMENT TO REMAIN
(G)	EX.	EX.	EX.	EX.	EX.	EX.	EX.	MAS SV-2-TB	R,Y,G,GA R,Y,G RA,YA,GA	Ø4 Ø4 Ø1	SP-2-T	Ø4P Ø2P		Ø4P Ø2P	EXISTING EQUIPMENT TO REMAIN

NOTE: LUMINAIRE TYPE, NXT-60M-5-7-3LB-7-GY-3-UL-X-2H.

DETECTOR SCHEDULE

DETECTOR	PHASE	SLOT	TERMINAL
1	Ø6	J2U	T3-5&6
2	Ø6	J2L	T3-7&8
3	Ø6	J4U	T5-1&2
4	Ø6	J4L	T5-3&4
5	Ø6P	J3U	T3-9&10
6	Ø1	I1U	T2-1&2
7	Ø2	I2U	T2-5&6
8	Ø2	I2L	T2-7&8
9	Ø2	I4U	T4-1&2
10	Ø2	I4L	T4-3&4
11	Ø2	I3U	T2-9&10
12	Ø2	I3L	T2-11&12
13	Ø5	J1U	T3-1&2
14	Ø6P	J9U	T7-9&10
15	Ø3	I5U	T4-5&6
16	Ø4	I8U	T6-5&6
17	Ø4	I6U	VIDEO
PPB	Ø2P	I12U	T8-4&COM6
PPB	Ø3P	I13L	T8-8&COM9
PPB	Ø4P	I12L	T8-5&COM6
PPB	Ø6P	I13U	T8-7&COM9
EVA	Ø2+Ø5	J12U	T9-4&COM6
EVB	Ø4	J13U	T9-7&COM9
EVC	Ø6+Ø1	J12L	T9-5&COM6
EVD	Ø3	J13L	T9-8&COM9
FLASH	FLASH	I14U	T8-10&COM12

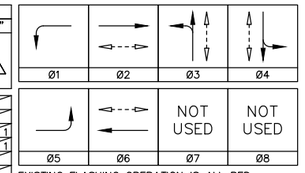
NOTE: CONTRACTOR IS RESPONSIBLE TO USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING LOOP DETECTORS.

CONDUIT & CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE AND RUN 3-4" (1)	2-4" (2)	3" (3)	2-3" (4)	2-3" (5)	3" (6)	2-3" (7)
3 CONDUCTOR		POLE (A)	2	2					
		POLE (C)	2		2				
		POLE (D)	2	1 2	1				2 1
		POLE (E)	1	1					1
		POLE (F)	2	2 2	2	2 2	2 2	2 2	
		POLE (G)	2	2 2	2	2 2	2 2		
12 CONDUCTOR									
TOTAL CABLES			8	8 8	6	2 4	4 4	4 2	2 2 2
#6		SIGNAL SERVICE	2						
#8		COMMON GROUND	1	1	1	1	1	1	1
#10		SAFETY LIGHTING		2	2	2	2	2	2
#14		RR PREEMP	6	6					
TYPE 'B' DLC	Ø1	LOOP DETECTOR	1	1					1
	Ø2	" "	5	5		1			
	Ø3	" "	1	1		1	1	1	
	Ø4	" "	1	1					
	Ø5	" "	1	1					
	Ø6	" "	4	4					4
	Ø6P	" "	2	1	1				1
EV-DLC		EV DETECTION	4	2	2				2
VIDEO CABLE		VIDEO DETECTION	1	1					1
VIDEO COAX			1	1					1
TOTAL CONDUCTORS / CABLES			47	42	8	14	12	8	17
PERCENT FULL			18%	22%	19%	20%	19%	21%	15%

NOTE: ALL NEW WIRING UNLESS NOTED AS EXISTING

EXISTING PHASE DIAGRAM



EXISTING FLASHING OPERATION IS ALL RED.
LEADING PEDESTRIAN INTERVAL GIVEN IN Ø6 AND Ø2.

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

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PWPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PITS070112-04	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECS. 2010 EDITION

STANDARD DRAWINGS:

DOCUMENT NO.	DESCRIPTION
PWP1070116-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION
PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION

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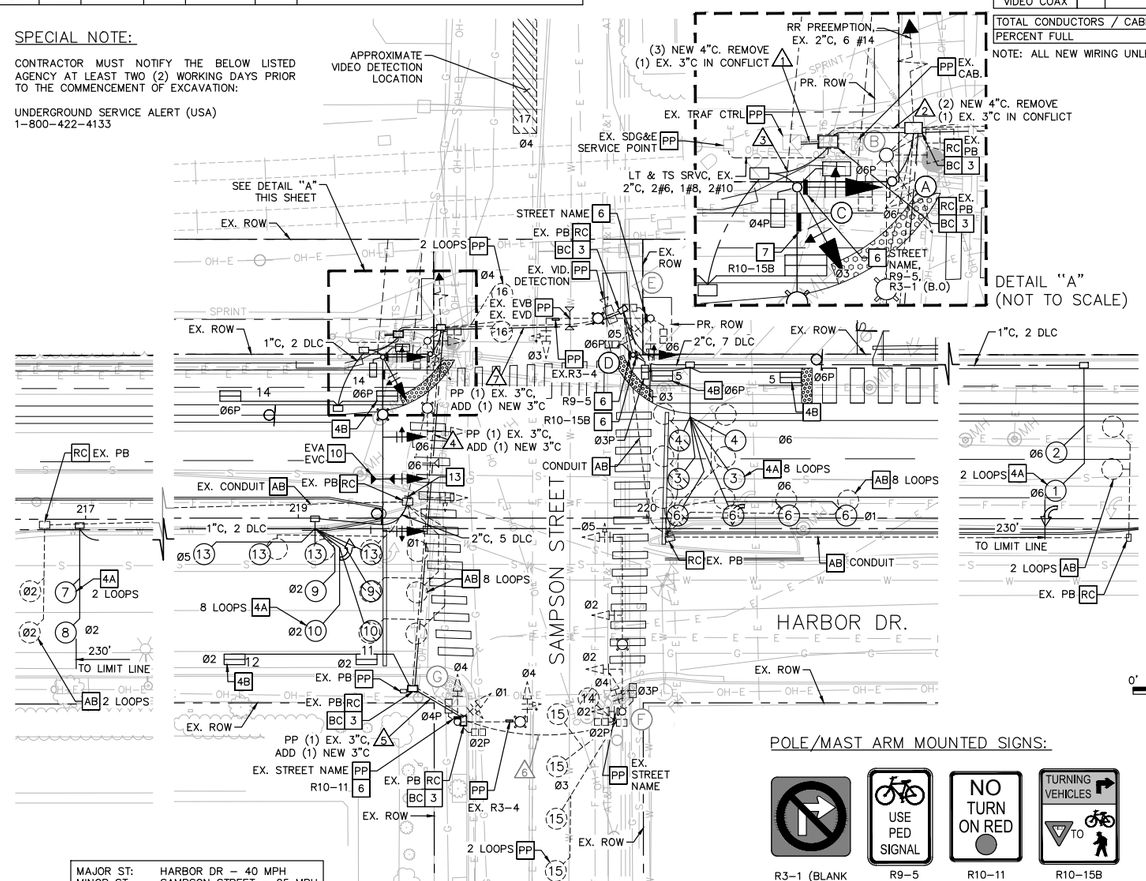
SPECIAL NOTE:

CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF EXCAVATION:

UNDERGROUND SERVICE ALERT (USA)
1-800-422-4133

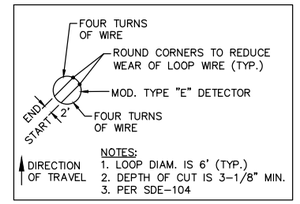


MAJOR ST: HARBOR DR – 40 MPH
MINOR ST: SAMPSON STREET – 25 MPH

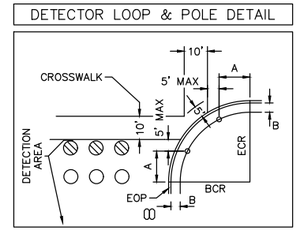
TRAFFIC SIGNAL CONSTRUCTION NOTES:

- AB ABANDON AS NOTED. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND TO BECOME PROPERTY OF THE CONTRACTOR AS NOTED.
- PP PROTECT IN PLACE AS NOTED.
- 2 CB INSTALL CONDUIT INTO EXISTING PULL BOX.
- 3 BC INSTALL PULL BOX INTO EXISTING CONDUIT.
- 4A INSTALL VEHICLE LOOP DETECTOR.
- 4B INSTALL BIKE LOOP DETECTOR.
- 6 INSTALL SIGN ON POLE PER PLAN.
- 7 INSTALL SIGN ON MAST ARM PER PLAN.
- 10 INSTALL EVPE.
- 13 CONNECT NEW AND EXSTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL NEW CONDUCTORS AS INDICATED ON SCHEDULES.

SAWCUT & WINDING DETAIL



DETECTOR LOOP & POLE DETAIL



POLE/MAST ARM MOUNTED SIGNS:

R3-1 (BLANK -OUT) 36"x36" | R9-5 12"x18" | R10-11 24"x30" | R10-15B 30"x36"

PUBLIC CONTRACT

TRAFFIC SIGNAL PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT
SAMPSON STREET

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 158 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370-158-D

MAY 6, 2019

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN
Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CAPUZZI NO. 76530 CIVIL STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

		DATE
DESIGNED BY	I. LOH, N.A.	5/19
DRAWN BY	I. LOH, N.A.	5/19
CHECKED BY	M. CAPUZZI	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

POLE & EQUIPMENT SCHEDULE

NO.	STANDARD TYPE	STANDARD HEIGHT	STANDARD MAST ARM LEN. SIG.	STANDARD MAST ARM LEN. LUM.	LUM.	STD. POLE PLACEMENT A	STD. POLE PLACEMENT B	SIGNAL MOUNTING AND PLACEMENT VEHICLE SIGNAL MOUNTING	VEHICLE SIGNAL INDICATION	VEHICLE SIGNAL PHASE	PED SIGNAL MOUNTING	PED SIGNAL PHASE	PED PUSH BUTTON LOCATION	PED PUSH BUTTON PHASE	NOTES
						STA									
A	1-A	10'	–	–	–	231+29.21	39.56 LT	–	–	–	SP-1-T	Ø6P		Ø6P	ALL NEW EQUIPMENT.
B	EX.	EX.	EX.	EX.	LED 133W	EX.	EX.	MAS MAS MAS SV-1-T MISC EQ	R,Y,G R,Y,G,FYA R,Y,G R,Y,G,FYA B.O.	Ø6 Ø6 Ø4 Ø6 Ø6LPI/RR	SP-1-T	Ø6P	–	–	REMOVE EX. SV-1-T MOUNTED (R,Y,G) VEH. HEAD AND EX MAS MOUNTED (R,Y,G) VEH. HEAD. REPLACE BOTH WITH NEW (R,Y,G,FYA) VEH. HEAD. REMOVE EX. Ø6P PED. HEAD. REMOVE EX. LUMINAIRE AND REPLACE WITH NEW LED LUMINAIRE. INSTALL NEW SIGNS PER PLAN. PROTECT IN PLACE ALL OTHER EX. EQUIPMENT.
C	EX.	EX.	EX.	EX.	EX.	EX.	EX.	TV-1-T	R,Y,G	Ø4	–	–		Ø6P	REMOVE EX. PPB.
D	15TS	30'	–	–	LED 133W	5'	6'	SV-1-T	RA,YA,GA	Ø5	SP-1-T	Ø4P		Ø6P	ALL NEW EQUIPMENT.
E	1-A	10'	–	–	–	-10'	5'	TV-1-T	R,Y,G,FYA	Ø6	SP-1-T	Ø6P		Ø4P	ALL NEW EQUIPMENT.
F	EX.	EX.	EX.	EX.	EX.	EX.	EX.	SV-1-T	RA,YA,GA	Ø5	SP-2-T	Ø4P Ø6P		Ø4P Ø6P	REMOVE EX. POLE, FOUNDATION, AND ALL EQUIPMENT.
G	PPB.	EX.	–	–	–	EX.	EX.	–	–	–	–	–		Ø2P Ø4P	EXISTING EQUIPMENT TO REMAIN.
H	EX.	EX.	EX.	EX.	EX.	EX.	EX.	MAS MAS SV-2-TB	RA,YA,GA R,Y,G R,Y,G R,Y,G	Ø5 Ø2 Ø2 Ø4	SP-2-T	Ø2P Ø4P	–	–	EXISTING EQUIPMENT TO REMAIN.
I	EX.	EX.	EX.	EX.	EX.	EX.	EX.	SV-2-TB	R,Y,G R,Y,G	Ø2 Ø4	SP-2-T	Ø2P		Ø2P	EXISTING EQUIPMENT TO REMAIN.

NOTE: LUMINAIRE TYPE, NXT-60M-5-7-3LB-7-GY-3-UL-X-2H.

DETECTOR SCHEDULE

DETECTOR	PHASE	SLOT	TERMINAL
1	Ø2	I2U	T2-5&6
2	Ø2	I2L	T2-7&8
3	Ø2	I3U	T2-9&10
4	Ø2	I3L	T2-11&12
5	Ø2	I4U	T4-1&2
6	Ø5	J1U	T3-1&2
7	Ø4	I8U	VIDEO
8	Ø6	J2U	T3-5&6
9	Ø6	J2L	T3-7&8
10	Ø6	J4L	T5-3&4
11	Ø6P	J3U	T3-9&10
12	Ø6P	J3L	T3-11&12
PPB	Ø2P	I12U	T8-4&COM6
PPB	Ø4P	I12L	T8-5&COM6
PPB	Ø6P	I13U	T8-7&COM9
EVA	Ø2+Ø5	J12U	T9-4&COM6
EVB	Ø4	J13U	T9-7&COM9
EVC	Ø6	J12L	T9-5&COM6
FLASH	–	I14U	T8-10&COM12

NOTE: CONTRACTOR IS RESPONSIBLE TO USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING LOOP DETECTORS.

SPECIAL NOTE:

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UNDERGROUND SERVICE ALERT (USA)
1-800-422-4133

CONDUIT & CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE AND RUN 3-3" (1)	3-3" (2)	2-3" (3)	2-3" (4)	3" (5)	3" (6)	3" (7)	3" (8)
CONDUCTOR 3		POLE A	1	1	1					
		POLE B	1	1	1					
		POLE C	1	1	1	1				
		POLE D	1	1	1	1	1	1	1	1
		POLE E	1	1	1	1	1	1	1	1
		POLE G	2	2						2
12		POLE H	2	2						2
CONDUCTOR		POLE I	1	1	1					
TOTAL CABLES			6	8	6	8	3	5	2	3
#6		SIGNAL SERVICE	2							
#8		COMMON GROUND	1	1	1	1	1	1	1	1
#10		SAFETY LIGHTING		2	2	2	2	2	2	2
#14		RR PREEMP	6	6	6	6	6			
TYPE 'B' DLC	Ø2	LOOP DETECTOR	4							
	Ø5	" "	1							
	Ø6	" "	3	3	3	3	3	3		
	Ø6P	" "	2	2	2	1	1	1		
EV-DLC		EV DETECTION	3	3	2					1
VIDEO CABLE		VIDEO DETECTION	1	1	1					
VIDEO COAX			1	1	1					
TOTAL CONDUCTORS / CABLES			38	33	26	18	17	11	7	8
CONDUIT FILL			29%	27%	27%	16%	25%	24%	20%	20%

NOTE: ALL NEW WIRING UNLESS NOTED AS EXISTING

EXISTING PHASE DIAGRAM

NOT USED		NOT USED	
Ø1	Ø2	Ø3	Ø4
		NOT USED	NOT USED
Ø5	Ø6	Ø7	Ø8

EXISTING FLASHING OPERATION IS ALL RED.
LEADING PEDESTRIAN INTERVALS GIVEN IN Ø6 & Ø2.

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
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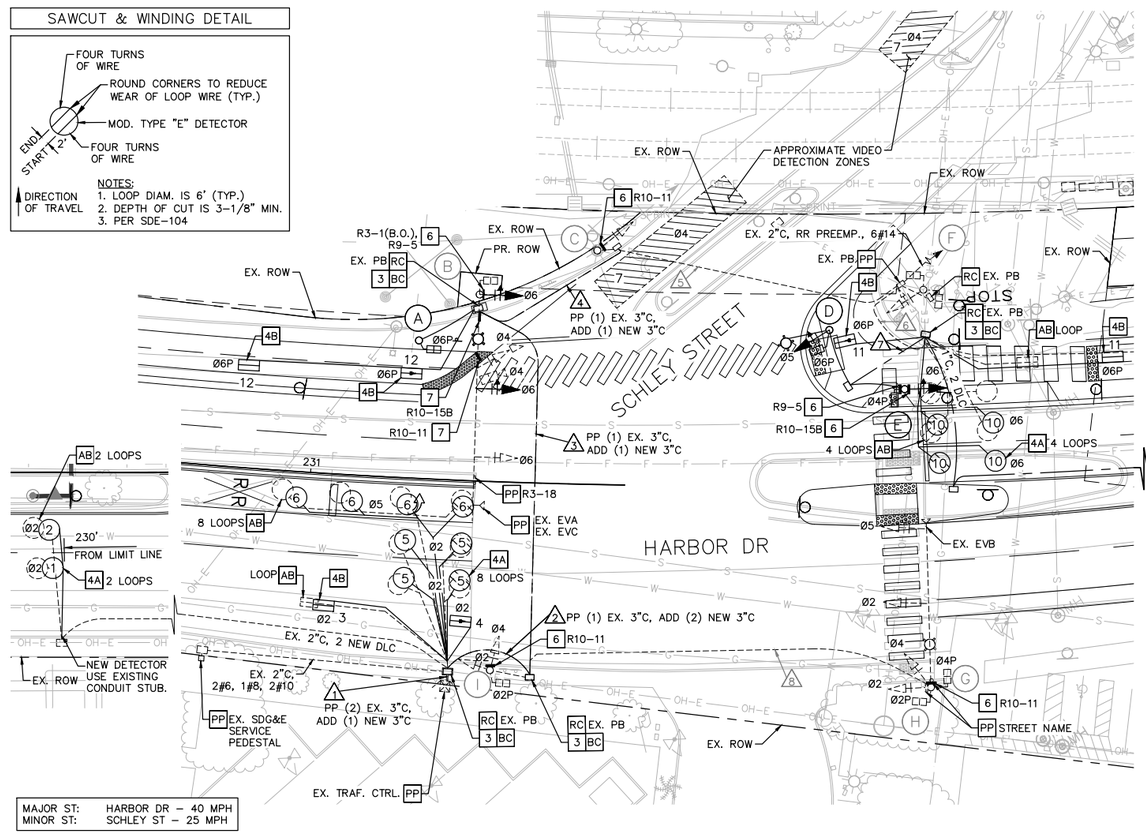
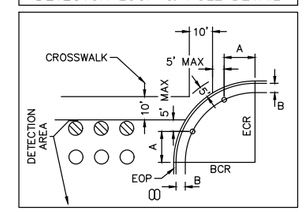
SAWCUT & WINDING DETAIL

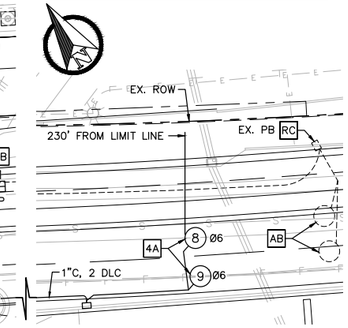
NOTES:
1. LOOP DIAM. IS 6' (TYP.)
2. DEPTH OF CUT IS 3-1/8" MIN.
3. PER SDE-104



MAJOR ST: HARBOR DR – 40 MPH
MINOR ST: SCHLEY ST – 25 MPH

DETECTOR LOOP & POLE DETAIL





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POLE/MAST ARM MOUNTED SIGNS:

R10-15B 30"x36" | R3-1 (BLANK -OUT) 36"x36" | R9-5 12"x18" | R10-11 24"x30"

0' 20' 40'
SCALE: 1"= 20'

PUBLIC CONTRACT

TRAFFIC SIGNAL PLANS FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT
SCHLEY STREET

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 159 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-159-D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN ASSOCIATES
Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CRAIG C-68690 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION 05/30/20

DESIGNED BY I. LOH, N.A.	DATE 5/19
DRAWN BY I. LOH, N.A.	5/19
CHECKED BY M. CAPUZZI	5/19
SANDAG PRJ MGR E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

MAY 6, 2019

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12. ROUTING AND LOCATIONS OF UNDERGROUND ELECTRICAL SYSTEM IS DIAGRAMMATIC AND SUBJECT TO APPROVAL OF THE ENGINEER. UNDERGROUND ELECTRICAL LINES AND SUBSURFACE STRUCTURES MAY BE RELOCATED IF NECESSARY TO CLEAR OTHER EXISTING UNDERGROUND FACILITIES.
13. ALL TREES AND SHRUBS SHALL BE TRIMMED OR REMOVED AS DETERMINED BY THE CITY RESIDENT ENGINEER AS REQUIRED TO MAINTAIN SIGNAL HEAD VISIBILITY AND SIGHT DISTANCE.
14. ALL VEHICLE SIGNAL HEADS SHALL BE 12" WITH BACKPLATES.
15. ALL SIGNAL AND PEDESTRIAN INDICATIONS SHALL BE L.E.D.
16. ALL LOOPS TO BE TYPE "E" AS SHOWN ON THIS PLAN. LOOP DETECTORS SHALL BE 6' DIAMETER WITH 10' SPACING AND POSITIONED IN CENTER OF LANE UNLESS OTHERWISE SHOWN. SEE CALIFORNIA STANDARD PLAN SHEET ES-5B, FOR DETECTOR LEGEND AND DETAILS. FRONT LOOPS SHALL BE MODIFIED TYPE "E" LOOPS PER SDE-104.
17. PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS SHALL BE INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS SHALL BE 16"X18" L.E.D. COUNTDOWN INDICATIONS. PEDESTRIAN PUSH BUTTONS SHALL BE 2" PER ADA REQUIREMENTS.
18. PLACE TEXTURED HORIZONTAL YELLOW BAND 2 INCHES IN WIDTH ENCIRCLING THE POLE, AND A 1 INCH WIDE DARK BORDER BAND ABOVE AND BELOW THIS YELLOW BAND WHEN PPB ARE PLACED ON A TRAFFIC SIGNAL POLE. (PER CALIFORNIA BUILDING CODE 11B-703.7.2.7).

POLE AND EQUIP. SCHEDULE

SEE SHEET 161

CONDUIT AND CONDUCTOR SCHEDULE

SEE SHEET 161

DETECTOR SCHEDULE

SEE SHEET 161

SAWCUT & WINDING DETAIL

DETECTOR LOOP & POLE DETAIL

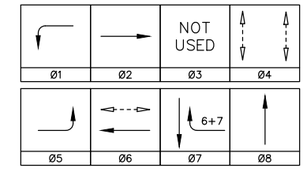
TRAFFIC SIGNAL CONSTRUCTION NOTES:

- AB ABANDON AS NOTED. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND TO BECOME PROPERTY OF THE CONTRACTOR AS NOTED.
- PP PROTECT IN PLACE AS NOTED.
- 3 BC INSTALL PULL BOX INTO EXISTING CONDUIT.
- 4A INSTALL VEHICLE LOOP DETECTOR.
- 4B INSTALL BIKE LOOP DETECTOR.
- 6 INSTALL SIGN ON POLE PER PLAN.
- 7 INSTALL SIGN ON MAST ARM PER PLAN.
- 10 INSTALL EVPE.
- 17 INSTALL NEW BBS SYSTEM AS NOTED.

POLE/MAST ARM MOUNTED SIGNS:

R3-1 (BLANK -OUT) 36"x36" | R9-5 12"x18" | R10-11 24"x30" | R10-15B 30"x36"

EXISTING PHASE DIAGRAM



EXISTING FLASHING OPERATION IS ALL RED.
LEADING PEDESTRIAN INTERVAL GIVEN IN Ø6.

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
PWPI070116-01	STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2015 EDITION
PWPI070116-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2015 EDITION
PWPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PITS070112-04	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECS. 2010 EDITION

STANDARD DRAWINGS:

DOCUMENT NO.	DESCRIPTION
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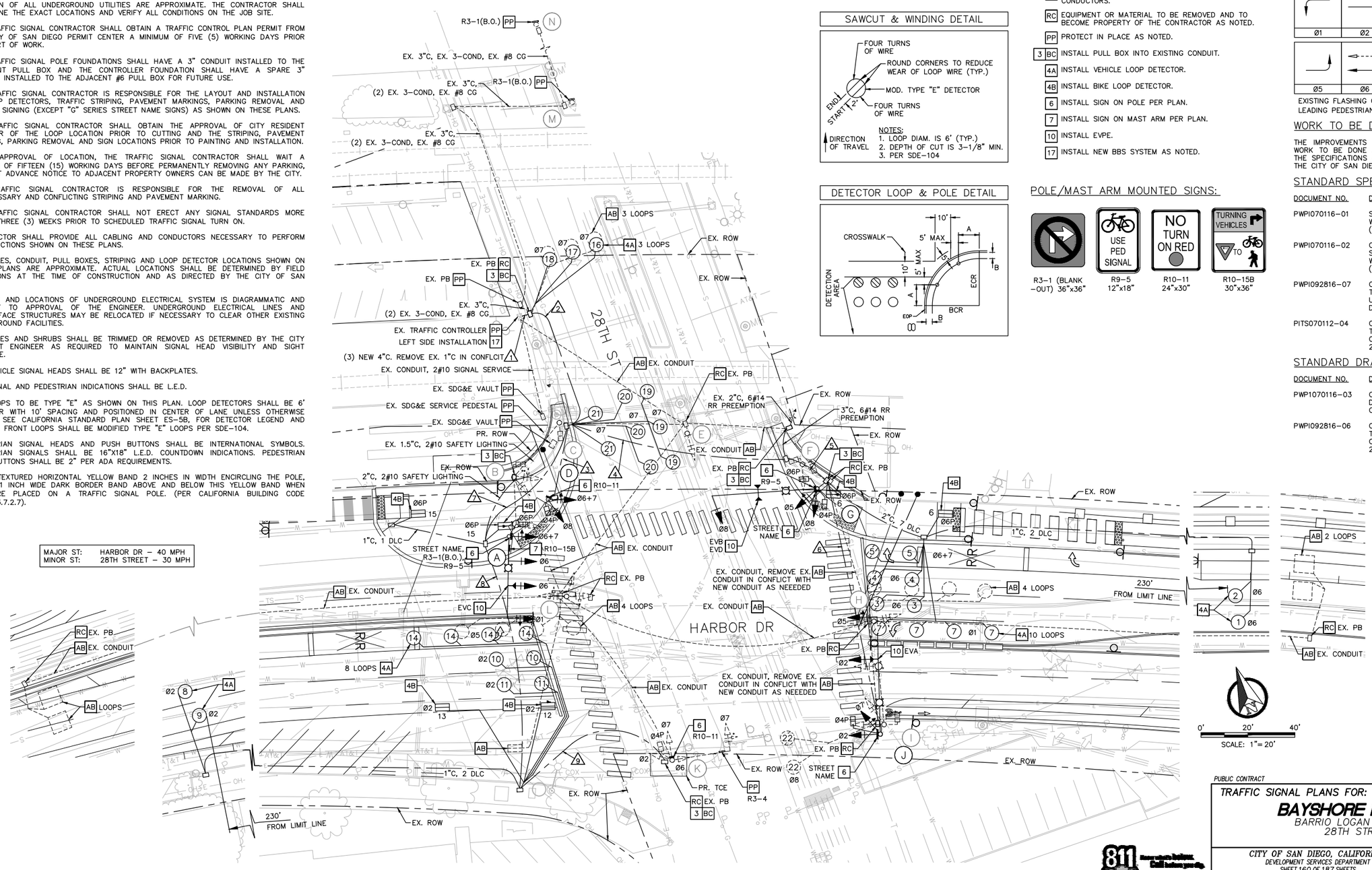
PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION



PUBLIC CONTRACT

TRAFFIC SIGNAL PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT
28TH STREET

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 160 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-160-D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN ASSOCIATES
Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CARLSON 68816 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION 12/30/20

DESIGNED BY I. LOH, N.A.	DATE 5/19	
DRAWN BY I. LOH, N.A.	5/19	
CHECKED BY M. CAPUZZI	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

MAY 6, 2019

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD TYPE	STANDARD HEIGHT	STANDARD MAST ARM LEN. SIG.	STANDARD MAST ARM LEN. LUM.	LUM.	STD. POLE PLACEMENT A	STD. POLE PLACEMENT B	SIGNAL MOUNTING AND PLACEMENT: VEHICLE SIGNAL MOUNTING	VEHICLE SIGNAL INDICATION	VEHICLE SIGNAL PHASE	PED SIGNAL MOUNTING	PED SIGNAL PHASE	PED PUSH BUTTON LOCATION	PED PUSH BUTTON PHASE	NOTES
A	24-4-100	30'	35'	12'	LED 133W	11.25'	5.20'	MAS MAS MAS SV-1-T MISC EQ	RA,YA,GA R,Y,G R,Y,G RA,YA,FYA,GA B.O.	Ø1 Ø6 Ø6 Ø6+Ø7 Ø6LPI/RR	SP-1-T	Ø6P		Ø4P	ALL NEW EQUIPMENT. INSTALL NEW SIGNS PER PLAN.
B	EXIST.	EX.	EX.	EX.	EX.	EX.	EX.	MAS SV-2-TB	R,Y,G R,Y,G,GA R,Y,G	Ø6 Ø6+7 Ø8	SP-1-T	Ø6P	–	–	REMOVE EXISTING POLE, MAST ARM, SIGNS, FOUNDATION AND ALL EQUIPMENT.
C	EXIST.	EX.	–	–	–	EX.	EX.	–	–	–	TP-1	Ø4P		Ø4P Ø6P	REMOVE EXISTING POLE, SIGNS, FOUNDATION AND ALL EQUIPMENT.
D	1-A	10'	–	–	–	25.37'	6.45'	TV-2-T	RA,YA,FYA,GA R,Y,G	Ø6+7 Ø8	SP-1-T	Ø4P		Ø6P	ALL NEW EQUIPMENT. INSTALL NEW SIGNS PER PLAN.
E	EXIST.	EX.	–	–	–	EX.	EX.	TV-1-T	R,Y,G	Ø8	–	–	–	–	REMOVE EXISTING POLE, SIGNS, FOUNDATION AND ALL EQUIPMENT.
F	EXIST.	EX.	–	–	–	EX.	EX.	TV-1	R,Y,G	Ø8	SP-2-T	Ø4P Ø6P		Ø4P Ø6P	REMOVE EXISTING POLE, SIGNS, FOUNDATION AND ALL EQUIPMENT.
G	26-3-100	30'	45'	12'	LED 133W	15.25'	6.62'	MAS SV-2-TB	R,Y,G R,Y,G RA,YA,GA	Ø8 Ø8 Ø5	SP-2-T	Ø4P Ø6P		Ø4P Ø6P	ALL NEW EQUIPMENT.
H	EXIST.	EX.	–	–	–	EX.	EX.	TV-1 SV-1	RA,YA,GA RA,YA,GA	Ø5 Ø1	–	–	–	–	REMOVE EXISTING POLE, SIGNS, FOUNDATION AND ALL EQUIPMENT.
I	EXIST.	EX.	EX.	EX.	EX.	EX.	EX.	–	R,Y,G, R,Y,G RA,YA,GA	Ø2 Ø2 Ø7	–	Ø4P		Ø2P Ø4P	REMOVE EXISTING POLE, MAST ARM, SIGNS, FOUNDATION AND ALL EQUIPMENT.
J	29-5-100	30'	50'	12'	LED 133W	2.61'	6.41'	MAS MAS SV-2-TB	RA,YA,GA R,Y,G R,Y,G RA,YA,GA	Ø5 Ø2 Ø2 Ø7	SP-1-T	Ø4P		Ø4P	ALL NEW EQUIPMENT.
K	EXIST.	EX.	EX.	–	–	EX.	EX.	MAS-4C SV-3-TA	R,Y,GA R,Y,G R,Y,G R,Y,G	Ø7 Ø7 Ø2 Ø6	SP-1	Ø4P		Ø2P Ø4P	REMOVE EXISTING Ø2P PPB.
L	EXIST.	EX.	–	–	–	EX.	EX.	TV-1 SV-1-T	R,Y,G RA,YA,GA RA,YA,GA	Ø7 Ø5 Ø1	–	–	–	–	REMOVE EXISTING POLE, MAST ARM, SIGNS, FOUNDATION AND ALL EQUIPMENT.
M	EXIST.	EX.	–	–	–	EX.	EX.	MISC EQ	B.O.	RR	–	–	–	–	EXISTING EQUIPMENT TO REMAIN.
N	EXIST.	EX.	–	–	–	EX.	EX.	MISC EQ	B.O.	RR	–	–	–	–	EXISTING EQUIPMENT TO REMAIN.

DETECTOR SCHEDULE

DETECTOR	PHASE	SLOT	TERMINAL
1	Ø6	J2U	T3-5&6
2	Ø6	J2L	T3-7&8
3	Ø6	J4U	T5-1&2
4	Ø6	J4L	T5-3&4
5	Ø6+7	J3L	T3-11&12
6	Ø6P	J3U	T3-9&10
7	Ø1	I1U	T2-1&2
8	Ø2	I2U	T2-5&6
9	Ø2	I2L	T2-7&8
10	Ø2	I4U	T4-1&2
11	Ø2	I4L	T4-3&4
12	Ø2	I3L	T2-11&12
13	Ø2	I3U	T2-9&10
14	Ø5	J1U	T3-1&2
15	Ø6P	J9U	T7-9&10
16	Ø7	I6U	T4-9&10
17	Ø4	I6L	T4-11&12
18	Ø4	I7U	T6-1&2
19	Ø4	I8U	T6-5&6
20	Ø4	I8L	T6-7&8
21	Ø4	I7L	T6-3&4
22	Ø8	J8U	T7-5&6
PPB	Ø4P	I12L	T8-5&COM6
PPB	Ø6P	I13U	T8-7&COM9
EVA	Ø2+Ø5	J12U	T9-4&COM6
EVB	Ø7	J13U	T9-7&COM9
EVC	Ø6+Ø1	J12L	T9-5&COM6
EVD	Ø8	J13L	T9-8&COM9
FLASH	FLASH	I14U	T8-10&COM12
RR2	LTD OPE	J14L	T9-11&COM12

NOTE: CONTRACTOR IS RESPONSIBLE TO USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING LOOP DETECTORS.

CONDUIT AND CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE AND RUN 3-4" (1)	3-4" (2)	3" (3)	2-4" (4)	2-4" (5)	2-3" (6)	2-3" (7)	2-3" (8)	3" (9)
3-COND.		POLE A	1 2	1 2					1 2		
		POLE D	1 1	1 1	1						
		POLE G	2 2	2 2		2 2	2 2				
		POLE J	1 2	1 2		1 2	1 2	1 2			
		POLE K	1 2	1 2					1 2	1 2	1 2
12 CONDUCTOR		POLE M	1								
		POLE N	1								
TOTAL CABLES			8 9	6 9	1 1	3 4	3 4	1 2	2 4	1 2	1 2
#10		SIGNAL SERVICE									
#8		COMMON GROUND	1	1	1	1	1	1	1	1	1
#10		SAFETY LIGHTING				2	2	2	2		
#14		RR PREEMPTION	6	6		6					
TYPE 'B' DLC	Ø1	LOOP DETECTION	1	1		1	1				
	Ø2	" "	6	6					6	6	
	Ø5	" "	1	1					1	1	
	Ø6	" "	4	4		4	4				
	Ø6P	" "	2	2		1	1		1		
	Ø7	" "	6	3							
	Ø6+7	" "	1	1		1	1				
	Ø8	" "	1	1		1	1	1			
EV-DLC		EV DETECTION	4	4		3	3	1	1		
TOTAL CONDUCTORS / CABLES			50	45	3	27	21	8	18	11	4
CONDUIT FILL			20%	19%	3%	14%	13%	10%	21%	12%	17%

NOTE: ALL NEW WIRING UNLESS NOTED AS EXISTING

PUBLIC CONTRACT

TRAFFIC SIGNAL PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT
28TH STREET – TABLES

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 161 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

41370-161-D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN ASSOCIATES
Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CAPUZZI NOT FOR CONSTRUCTION 18/30/20 CIVIL STATE OF CALIFORNIA

		DATE
DESIGNED BY	I. LOH, N.A.	5/19
DRAWN BY	I. LOH, N.A.	5/19
CHECKED BY	M. CAPUZZI	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN

CONTRACT NO. –

DRAWING NO. –

SHEET NO.

811 Know what's below. Call before you dig.

MAY 6, 2019

POLE & EQUIPMENT SCHEDULE

NO.	STANDARD TYPE	STANDARD HEIGHT	MAST ARM LEN. SIG.	MAST ARM LEN. LUM.	LUM.	STD. POLE PLACEMENT A	STD. POLE PLACEMENT B	VEHICLE SIGNAL MOUNTING	VEHICLE SIGNAL INDICATION	VEHICLE SIGNAL PHASE	PED SIGNAL MOUNTING	PED SIGNAL PHASE	PED PUSH BUTTON LOCATION	PED PUSH BUTTON PHASE	NOTES
A	29-5-100	30'	55'	15'	133W LED	STA 414+75.79, 46.83' LT		MAS MAS MAS SV-2-TB MISC. EQ.	RA,YA,GA R,Y,G R,Y,G,FYA R,Y,G,FYA R,Y,G B.O	Ø5 Ø2 Ø2 Ø2 Ø4 Ø2LPI	SP-2-T	Ø2P Ø4P		Ø2P Ø4P	ALL NEW EQUIPMENT.
B	EXISTING	EX.	EX.	EX.	EX.	EX.	EX.	MAS SV-2-TA	R,Y,G R,Y,G R,Y,G	Ø2 Ø2 Ø4	SP-2-T	Ø2P Ø4P		Ø2P Ø4P	REMOVE EX. POLE, MAST ARM, SIGNS, FOUNDATION AND ALL EQUIPMENT.
C	15TS	30'	–	–	133W LED	STA 415+92.13, 42.10' LT		SV-2-TA	R,Y,G,FYA R,Y,G	Ø2 Ø4	SP-2-T	Ø2P Ø4P	–	–	ALL NEW EQUIPMENT.
D	EXISTING	–	–	–	EX.	EX.	EX.	TV-1	R,Y,G	Ø4	SP-2-T	Ø2P Ø4P		Ø2P Ø4P	REMOVE EX. POLE, MAST ARM, SIGNS, FOUNDATION AND ALL EQUIPMENT.
E	EXISTING	–	–	–	EX.	EX.	EX.	SV-1 TV-2-T	R,Y,GA R,Y,G R,Y,G	Ø5 Ø4 Ø6	–	–		Ø4P	REMOVE EX. POLE, MAST ARM, SIGNS, FOUNDATION AND ALL EQUIPMENT.
F	EXISTING	EX.	EX.	EX.	EX.	EX.	EX.	MAS SV-2-TA	R,Y,G R,Y,G R,Y,G	Ø6 Ø6 Ø4	SP-2-T	Ø4P Ø6P		Ø4P Ø6P	EXISTING EQUIPMENT TO REMAIN.
G	EXISTING	–	–	–	–	–	–	TV-2-T	R,Y,G RA,YA,GA	Ø4 Ø5	SP-2-T	Ø4P Ø6P		Ø4P Ø6P	REMOVE EX. TV-2-T MOUNTED (R,Y,G-Ø2) VEH. HEAD. REPLACE WITH NEW (RA,YA,GA) VEH. HEAD. PROTECT IN PLACE ALL OTHER EXISTING EQUIP.
H	EXISTING	–	–	–	EX.	EX.	EX.	TV-1	R,Y,GA	Ø5	–	–		Ø4P	REMOVE EX. POLE, MAST ARM, SIGNS, FOUNDATION AND ALL EQUIPMENT.
I	EXISTING	–	–	–	EX.	EX.	EX.	TV-1	R,Y,G	Ø4	–	–	–	–	EXISTING EQUIPMENT TO REMAIN.
J	1-A	10'	–	–	–	STA 416+21.65, 40.87' LT		–	–	–	–	–		Ø2P Ø4P	ALL NEW EQUIPMENT.

NOTE: LUMINAIRE TYPE, NXT-60M-5-7-3LB-7-GY-3-UL-X-2H.

DETECTOR SCHEDULE

DETECTOR	PHASE	SLOT	TERMINAL
1	Ø2	I2U	T2-5&6
2	Ø2	I2L	T2-7&8
3	Ø2	I4U	T4-1&2
4	Ø2	I4L	T4-3&4
5	Ø2P	I3U	T2-9&10
6	Ø5	J1U	T3-1&2
7	Ø6	J2U	T3-5&6
8	Ø6	J2L	T3-7&8
9	Ø6	J4U	T5-1&2
10	Ø6	J4L	T5-3&4
11	Ø6	J3L	T3-11&12
12	Ø2P	I3L	T2-11&12
13	Ø4	I8U	T6-5&6
14	Ø4	I8L	T6-7&8
15	Ø4	I7L	VIDEO
PPB	Ø2P	I12U	T8-4&COM6
PPB	Ø4P	I12L	T8-5&COM6
PPB	Ø6P	I13U	T8-7&COM9
EVA	Ø2	J12U	T9-4&COM6
EVC	Ø6	J12L	T9-5&COM6
FLASH	FLASH	I14U	T8-10&COM12

NOTE: CONTRACTOR IS RESPONSIBLE TO USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING LOOP DETECTORS.

CONDUIT & CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	1 (3-4")	2 (2-3")	3 (2-3")	4 (2")	5 (3")	6 (3")	7 (2-3")
CONDUCTOR 3 / 12 CONDUCTOR		POLE A	2 / 2	2 / 2	2 / 2				
		POLE C	2 / 2	2 / 2					
		POLE F	2 / 2						
		POLE G	2 / 2						2 / 2
		POLE I	1				1	1	
		POLE J	1	1					
TOTAL CABLES			9 / 9	5 / 4	2 / 2		1	1	2 / 2
#6		SIGNAL SERVICE	2						
#8		COMMON GROUND	1	1	1		1	1	1
#10		SAFETY LIGHTING		2	2				
#14		RR PREEMP	12	12					
TYPE "B" DLC	Ø2	LOOP DETECTOR	4						
	Ø2P	" "	2	2	1				
	Ø4	" "	2			2			
	Ø5	" "	1						
	Ø6	" "	5						5
EV-DLC		EV DETECTION	2	2	2				
VIDEO CABLE		VIDEO DETECTION	1	1	1				
VIDEO COAX			1	1	1				
TOTAL CONDUCTORS / CABLES			51	30	12	2	2	2	10
CONDUIT FILL			20%	24%	12%	5%	9%	9%	12%

NOTE: ALL NEW WIRING UNLESS NOTED AS EXISTING

EXISTING PHASE DIAGRAM

Ø1	Ø2	Ø3	Ø4
NOT USED		NOT USED	

Ø5	Ø6	Ø7	Ø8
		NOT USED	NOT USED

EXISTING FLASHING OPERATION IS ALL RED
LEADING PEDESTRIAN INTERVAL GIVEN IN Ø2.

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

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PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION

TRAFFIC SIGNAL GENERAL NOTES:

1. PULL BOXES SHALL BE NO.6, AND CONDUIT 3" UNLESS NOTED OTHERWISE.
2. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE.
3. THE TRAFFIC SIGNAL CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PLAN PERMIT FROM THE CITY OF SAN DIEGO PERMIT CENTER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
4. ALL TRAFFIC SIGNAL POLE FOUNDATIONS SHALL HAVE A 3" CONDUIT INSTALLED TO THE ADJACENT PULL BOX AND THE CONTROLLER FOUNDATION SHALL HAVE A SPARE 3" CONDUIT INSTALLED TO THE ADJACENT #6 PULL BOX FOR FUTURE USE.
5. THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF LOOP DETECTORS, TRAFFIC STRIPING, PAVEMENT MARKINGS, PARKING REMOVAL AND TRAFFIC SIGNING (EXCEPT "G" SERIES STREET NAME SIGNS) AS SHOWN ON THESE PLANS.
6. THE TRAFFIC SIGNAL CONTRACTOR SHALL OBTAIN THE APPROVAL OF CITY RESIDENT ENGINEER OF THE LOOP LOCATION PRIOR TO CUTTING AND THE STRIPING, PAVEMENT MARKING, PARKING REMOVAL AND SIGN LOCATIONS PRIOR TO PAINTING AND INSTALLATION.
7. AFTER APPROVAL OF LOCATION, THE TRAFFIC SIGNAL CONTRACTOR SHALL WAIT A MINIMUM OF FIFTEEN (15) WORKING DAYS BEFORE PERMANENTLY REMOVING ANY PARKING, SO THAT ADVANCE NOTICE TO ADJACENT PROPERTY OWNERS CAN BE MADE BY THE CITY.
8. THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL UNNECESSARY AND CONFLICTING STRIPING AND PAVEMENT MARKING.
9. THE TRAFFIC SIGNAL CONTRACTOR SHALL NOT ERECT ANY SIGNAL STANDARDS MORE THAN THREE (3) WEEKS PRIOR TO SCHEDULED TRAFFIC SIGNAL TURN ON.
10. CONTRACTOR SHALL PROVIDE ALL CABLING AND CONDUCTORS NECESSARY TO PERFORM ALL FUNCTIONS SHOWN ON THESE PLANS.
11. ALL POLES, CONDUIT, PULL BOXES, STRIPING AND LOOP DETECTOR LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND AS DIRECTED BY THE CITY OF SAN DIEGO.
12. ROUTING AND LOCATIONS OF UNDERGROUND ELECTRICAL SYSTEM IS DIAGRAMMATIC AND SUBJECT TO APPROVAL OF THE ENGINEER. UNDERGROUND ELECTRICAL LINES AND SUBSURFACE STRUCTURES MAY BE RELOCATED IF NECESSARY TO CLEAR OTHER EXISTING UNDERGROUND FACILITIES.
13. ALL TREES AND SHRUBS SHALL BE TRIMMED OR REMOVED AS DETERMINED BY THE CITY RESIDENT ENGINEER AS REQUIRED TO MAINTAIN SIGNAL HEAD VISIBILITY AND SIGHT DISTANCE.
14. ALL VEHICLE SIGNAL HEADS SHALL BE 12" WITH BACKPLATES.
15. ALL SIGNAL AND PEDESTRIAN INDICATIONS SHALL BE L.E.D.
16. ALL LOOPS TO BE TYPE "E" AS SHOWN ON THIS PLAN. LOOP DETECTORS SHALL BE 6' DIAMETER WITH 10' SPACING AND POSITIONED IN CENTER OF LANE UNLESS OTHERWISE SHOWN. SEE CALIFORNIA STANDARD PLAN SHEET ES-5B, FOR DETECTOR LEGEND AND DETAILS. FRONT LOOPS SHALL BE MODIFIED TYPE "E" LOOPS PER SDE-104.
17. PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS SHALL BE INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS SHALL BE 16"X18" L.E.D. COUNTDOWN INDICATIONS. PEDESTRIAN PUSH BUTTONS SHALL BE 2" PER ADA REQUIREMENTS.
18. PLACE TEXTURED HORIZONTAL YELLOW BAND 2 INCHES IN WIDTH ENCIRCLING THE POLE, AND A 1 INCH WIDE DARK BORDER BAND ABOVE AND BELOW THIS YELLOW BAND WHEN PPB ARE PLACED ON A TRAFFIC SIGNAL POLE. (PER CALIFORNIA BUILDING CODE 11B-703.7.2.7).

TRAFFIC SIGNAL CONSTRUCTION NOTES:

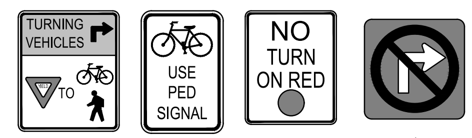
- AB — ABANDON AS NOTED. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RC — EQUIPMENT OR MATERIAL TO BE REMOVED AND TO BECOME PROPERTY OF THE CONTRACTOR AS NOTED.
- PP — PROTECT IN PLACE AS NOTED.
- 2 CB — INSTALL CONDUIT INTO EXISTING PULL BOX.
- 3 BC — INSTALL PULL BOX INTO EXISTING CONDUIT.
- 4A — INSTALL VEHICLE LOOP DETECTOR.
- 4B — INSTALL BIKE LOOP DETECTOR.
- 7 — INSTALL SIGN ON MAST ARM PER PLAN.
- 10 — INSTALL EVPE.
- 16 — INSTALL ITERIS VANTAGE RZ-4 AWDR VIDEO DETECTION UNIT, EQUIPMENT NEEDED IN CONTROLLER, AND ALL REQUIRED WIRING (OR APPROVED EQUALS).

SPECIAL NOTE:

CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF EXCAVATION:

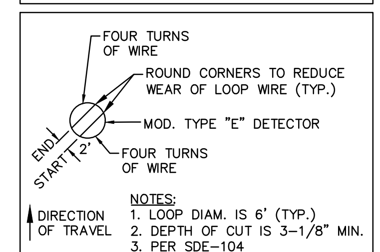
UNDERGROUND SERVICE ALERT (USA)
1-800-422-4133

POLE/MAST ARM MOUNTED SIGNS:



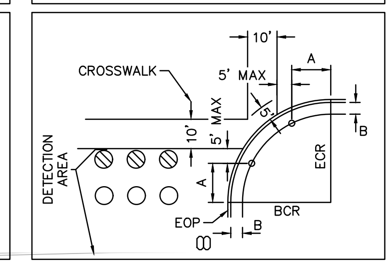
R10-15B 30"x36" | R9-5 12"x18" | R10-11 36"x48" | R3-1 (BLANK-OUT) 36"x36"

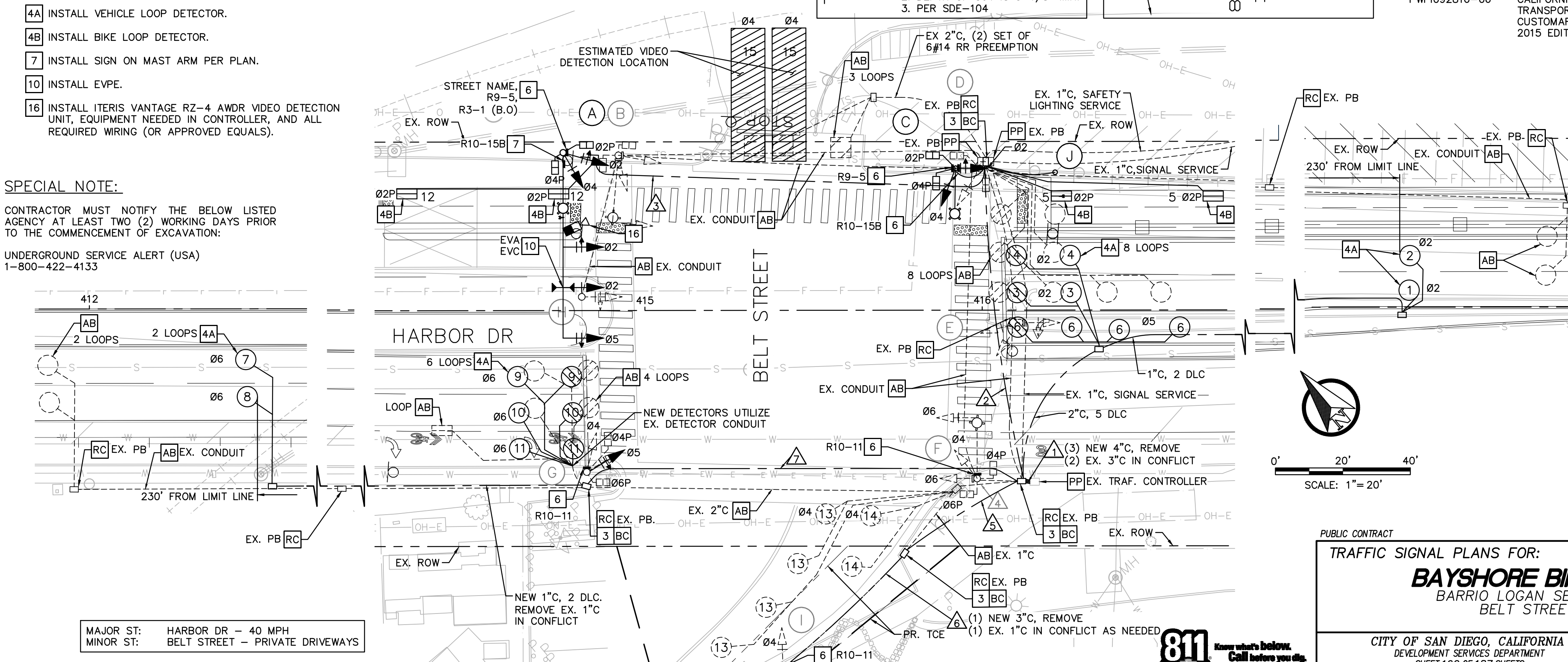
SAWCUT & WINDING DETAIL



NOTES:
1. LOOP DIAM. IS 6' (TYP.)
2. DEPTH OF CUT IS 3-1/8" MIN.
3. PER SDE-104

DETECTOR LOOP & POLE DETAIL





MAJOR ST:	HARBOR DR – 40 MPH
MINOR ST:	BELT STREET – PRIVATE DRIVEWAYS

811 Know what's below. Call before you dig.

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CAPUZZI C 69815 EXP. 06/30/20 CIVIL STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

DESIGNED BY I. LOH, N.A.	DATE 5/19
DRAWN BY I. LOH, N.A.	5/19
CHECKED BY M. CAPUZZI	5/19
SANDAG PRJ MGR E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC SIGNAL PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT
BELT STREET

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 162 OF 187 SHEETS

PROJECT NO.______
V.T.M.______

FOR CITY ENGINEER ______ DATE ______

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR______ DATE STARTED______
INSPECTOR______ DATE COMPLETED______

41370-162-D

MAY 6, 2019

TRAFFIC SIGNAL GENERAL NOTES

1. PULL BOXES SHALL BE NO.6, AND CONDUIT 3" UNLESS NOTED OTHERWISE.
2. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE.
3. THE TRAFFIC SIGNAL CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PLAN PERMIT FROM THE CITY OF SAN DIEGO PERMIT CENTER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
4. ALL TRAFFIC SIGNAL POLE FOUNDATIONS SHALL HAVE A 3" CONDUIT INSTALLED TO THE ADJACENT PULL BOX AND THE CONTROLLER FOUNDATION SHALL HAVE A SPARE 3" CONDUIT INSTALLED TO THE ADJACENT #6 PULL BOX FOR FUTURE USE.
5. THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF LOOP DETECTORS, TRAFFIC STRIPING, PAVEMENT MARKINGS, PARKING REMOVAL AND TRAFFIC SIGNING (EXCEPT "G" SERIES STREET NAME SIGNS) AS SHOWN ON THESE PLANS.
6. THE TRAFFIC SIGNAL CONTRACTOR SHALL OBTAIN THE APPROVAL OF CITY RESIDENT ENGINEER OF THE LOOP LOCATION PRIOR TO CUTTING AND THE STRIPING, PAVEMENT MARKING, PARKING REMOVAL AND SIGN LOCATIONS PRIOR TO PAINTING AND INSTALLATION.
7. AFTER APPROVAL OF LOCATION, THE TRAFFIC SIGNAL CONTRACTOR SHALL WAIT A MINIMUM OF FIFTEEN (15) WORKING DAYS BEFORE PERMANENTLY REMOVING ANY PARKING, SO THAT ADVANCE NOTICE TO ADJACENT PROPERTY OWNERS CAN BE MADE BY THE CITY.
8. THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL UNNECESSARY AND CONFLICTING STRIPING AND PAVEMENT MARKING.
9. THE TRAFFIC SIGNAL CONTRACTOR SHALL NOT ERECT ANY SIGNAL STANDARDS MORE THAN THREE (3) WEEKS PRIOR TO SCHEDULED TRAFFIC SIGNAL TURN ON.
10. CONTRACTOR SHALL PROVIDE ALL CABLING AND CONDUCTORS NECESSARY TO PERFORM ALL FUNCTIONS SHOWN ON THESE PLANS.
11. ALL POLES, CONDUIT, PULL BOXES, STRIPING AND LOOP DETECTOR LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND AS DIRECTED BY THE CITY OF SAN DIEGO.
12. ROUTING AND LOCATIONS OF UNDERGROUND ELECTRICAL SYSTEM IS DIAGRAMMATIC AND SUBJECT TO APPROVAL OF THE ENGINEER. UNDERGROUND ELECTRICAL LINES AND SUBSURFACE STRUCTURES MAY BE RELOCATED IF NECESSARY TO CLEAR OTHER EXISTING UNDERGROUND FACILITIES.
13. ALL TREES AND SHRUBS SHALL BE TRIMMED OR REMOVED AS DETERMINED BY THE CITY RESIDENT ENGINEER AS REQUIRED TO MAINTAIN SIGNAL HEAD VISIBILITY AND SIGHT DISTANCE.
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15. ALL SIGNAL AND PEDESTRIAN INDICATIONS SHALL BE L.E.D.
16. ALL LOOPS TO BE TYPE "E" AS SHOWN ON THIS PLAN. LOOP DETECTORS SHALL BE 6' DIAMETER WITH 10' SPACING AND POSITIONED IN CENTER OF LANE UNLESS OTHERWISE SHOWN. SEE CALIFORNIA STANDARD PLAN SHEET ES-5B, FOR DETECTOR LEGEND AND DETAILS. FRONT LOOPS SHALL BE MODIFIED TYPE "E" LOOPS PER SDE-104.
17. PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS SHALL BE INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS SHALL BE 16"X18" L.E.D. COUNTDOWN INDICATIONS. PEDESTRIAN PUSH BUTTONS SHALL BE 2" PER ADA REQUIREMENTS.
18. PLACE TEXTURED HORIZONTAL YELLOW BAND 2 INCHES IN WIDTH ENCIRCLING THE POLE, AND A 1 INCH WIDE DARK BORDER BAND ABOVE AND BELOW THIS YELLOW BAND WHEN PPB ARE PLACED ON A TRAFFIC SIGNAL POLE. (PER CALIFORNIA BUILDING CODE 11B-703.7.2.7).
19. CONTACT BNSF MANAGER OF PUBLIC PROJECTS PRIOR TO ANY WORK WITHIN BNSF R/W OR ANY WORK AFFECTING GRADE OPERATIONS.
20. EXISTING RR INTERCONNECTION TO RR SIGNAL SYSTEM(S) TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. IF DAMAGED AT ANYTIME, CONTRACTOR MUST CONTACT BNSF AND MTS EMERGENCY RESPONSE IMMEDIATELY: (800) 832-542 AND (619) 595-4960.

POLE AND EQUIP. SCHEDULE

SEE SHEET 164

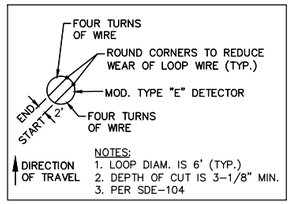
CONDUIT AND CONDUCTOR SCHEDULE

SEE SHEET 164

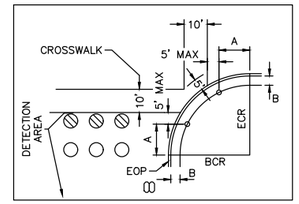
DETECTOR SCHEDULE

SEE SHEET 164

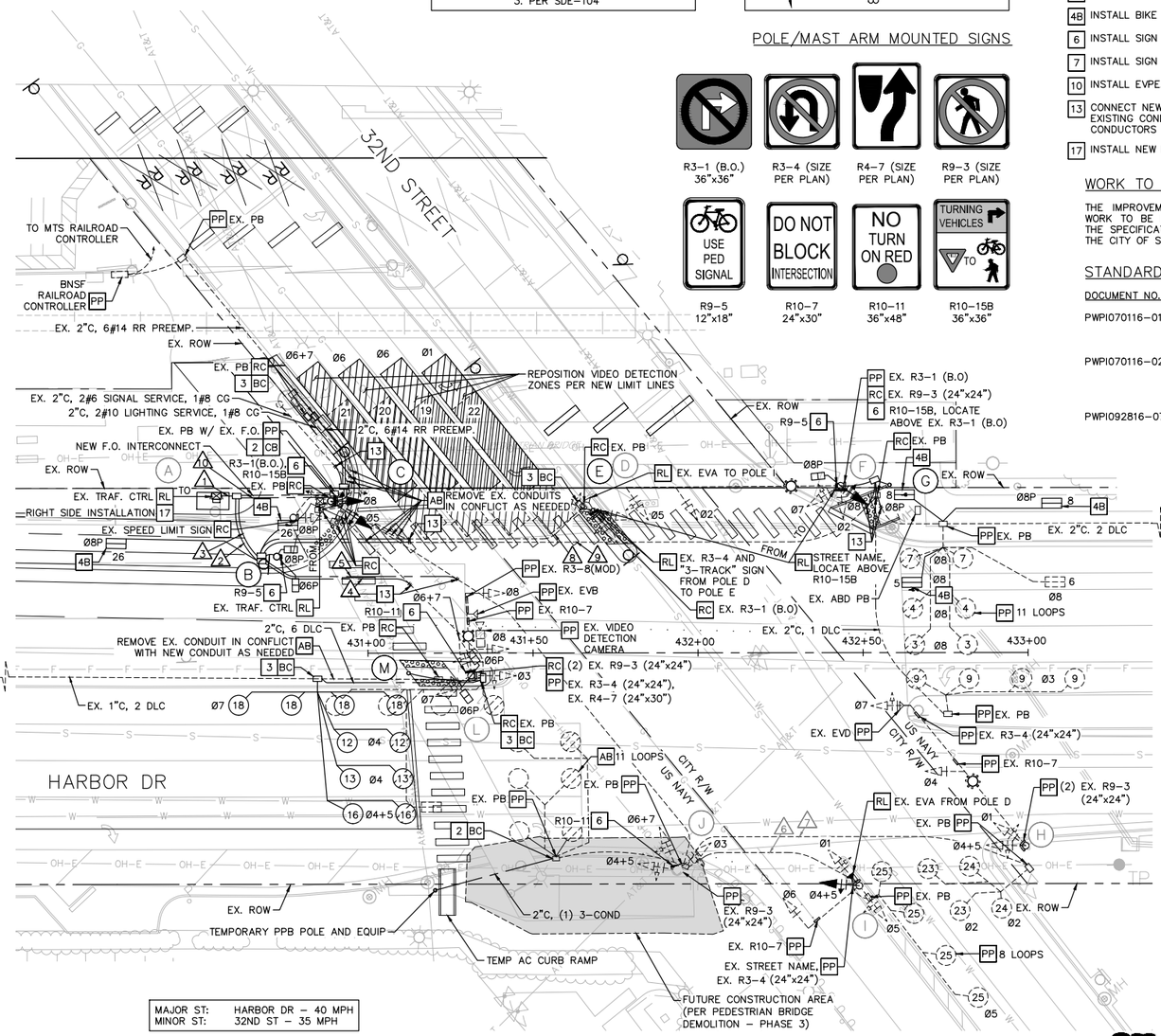
SAWCUT & WINDING DETAIL



DETECTOR LOOP & POLE DETAIL



POLE/MAST ARM MOUNTED SIGNS



MAJOR ST:	HARBOR DR - 40 MPH
MINOR ST:	32ND ST - 35 MPH

TRAFFIC SIGNAL CONSTRUCTION NOTES

- AB ABANDON AS NOTED. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RL RELOCATE AS NOTED.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND TO BECOME PROPERTY OF THE CONTRACTOR AS NOTED.
- PP PROTECT IN PLACE AS NOTED.
- 2 CB INSTALL CONDUIT INTO EXISTING PULL BOX.
- 3 BC INSTALL PULL BOX INTO EXISTING CONDUIT.
- 4A INSTALL VEHICLE LOOP DETECTOR.
- 4B INSTALL BIKE LOOP DETECTOR.
- 6 INSTALL SIGN ON POLE PER PLAN.
- 7 INSTALL SIGN ON MAST ARM PER PLAN.
- 10 INSTALL EVPE.
- 13 CONNECT NEW AND EXSTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL NEW CONDUCTORS AS INDICATED ON SCHEDULES.
- 17 INSTALL NEW BBS SYSTEM AS NOTED.

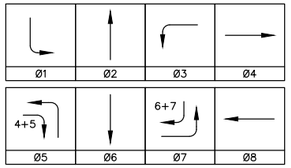
WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

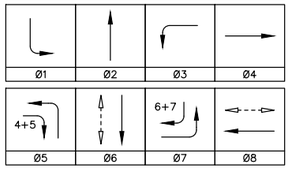
STANDARD SPECIFICATIONS

DOCUMENT NO.	DESCRIPTION
PWPI070116-01	STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2015 EDITION
PWPI070116-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2015 EDITION
PWPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION

EXISTING PHASE DIAGRAM



PROPOSED PHASE DIAGRAM

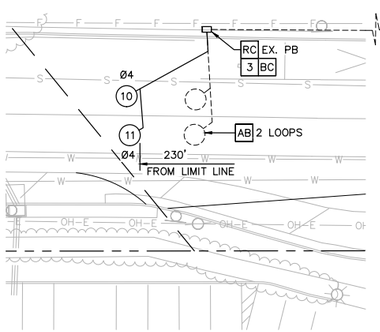


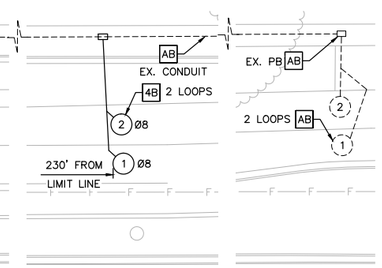
PROPOSED FLASHING OPERATION IS ALL RED
LEADING PEDESTRIAN INTERVAL GIVEN IN Ø8

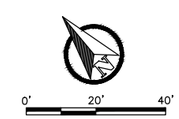
PITS070112-04	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECS. 2010 EDITION

STANDARD DRAWINGS

DOCUMENT NO.	DESCRIPTION
PWP1070116-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION
PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION







PUBLIC CONTRACT

TRAFFIC SIGNAL PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT
32ND STREET - PHASE 1

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 163 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-163-D

811 Know what's below. Call before you dig.

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN
Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CAPUZZI C 58430 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION 10/30/20

DESIGNED BY I. LOH, N.A.	DATE 5/19	
DRAWN BY I. LOH, N.A.	5/19	
CHECKED BY M. CAPUZZI	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. -
DRAWING NO. -
SHEET NO.

MAY 6, 2019

POLE & EQUIPMENT SCHEDULE

NO.	STANDARD TYPE	STANDARD HEIGHT	MAST ARM LEN. SIG.	MAST ARM LEN. LUM.	LUM.	STD. POLE PLACEMENT A	STD. POLE PLACEMENT B	VEHICLE SIGNAL MOUNTING	VEHICLE SIGNAL INDICATION	VEHICLE SIGNAL PHASE	PED SIGNAL MOUNTING	PED SIGNAL PHASE	PED PUSH BUTTON LOCATION	PED PUSH BUTTON PHASE	NOTES
A	EXIST.	EX.	–	–	–	EX.	EX.	TV–1	R,Y,G	Ø8	–	–	–	–	REMOVE EX. POLE, SIGNS, FOUNDATION, AND ALL EQUIPMENT.
B	1–A	10'	–	–	–	2'	3.75'	–	–	–	SP–2–T	Ø6P Ø8P		Ø6P Ø8P	ALL NEW EQUIPMENT.
C	1–A	10'	–	–	–	15'	6.50'	TV–2–T MISC EQ	RA,YA,GA R,YA,FYA B.O.	Ø5 Ø8 Ø8LPI/RR	–	–	–	–	ALL NEW EQUIPMENT.
D	EXIST.	EX.	–	–	–	EX.	EX.	SV–1–T MISC. EQ. SV–2–TA	RA,YA,GA B.O. RA,YA,GA R,Y,G	Ø1 – Ø5 Ø8	–	–	–	–	RELOCATE AND REMOVE EX. SIGNS PER PLAN. RELOCATE EX. EVP DETECTOR PER PLAN. REMOVE EX. POLE, FOUNDATION, AND ALL OTHER EQUIPMENT.
E	1–A	10'	–	–	–	STA 431+68.18, 43.27' LT		–	–	–	–	–		Ø8P	ALL NEW EQUIPMENT.
F	EXIST.	EX.	EX.	EX.	LED 133W	EX.	EX.	MAS MAS MISC. EQ. SV–3–TB	RA,YA,GA R,Y,G B.O. R,Y,G RA,YA,GA R,YA,FYA	Ø5 Ø2 Ø8LPI/RR Ø2 Ø7 Ø8	SP–1–T	Ø8P	–	–	REMOVE EX. Ø8 SV–3–TB MOUNTED (R,Y,G) VEH. SIGNAL AND REPLACE WITH NEW (R,YA,FYA) VEH. SIGNAL. INSTALL NEW Ø8P PED. SIGNAL HEAD. REMOVE EX. LUMINAIRE AND REPLACE WITH NEW LED LUMINAIRE. REMOVE EX., INSTALL NEW, AND PROTECT IN PLACE SIGNS PER PLAN. PROTECT IN PLACE ALL OTHER EX. EQUIPMENT.
G	PPB	3.5'	–	–	–	STA 432+58.04, 50.84' LT		–	–	–	–	–		Ø8P	ALL NEW EQUIPMENT.
H	EXIST.	EX.	EX.	EX.	LED 133W	EX.	EX.	MAS CUSTOM SV–2–TB	RA,YA,GA R,Y,G R,Y,G,YA,GA RA,YA,GA	Ø7 Ø4 Ø4+5 Ø1	–	–	–	–	REMOVE EX. LUMINAIRE AND REPLACE WITH NEW LED LUMINAIRE. REMOVE EX., INSTALL NEW, AND PROTECT IN PLACE SIGNS PER PLAN. PROTECT IN PLACE ALL OTHER EX. EQUIPMENT.
I	EXIST.	EX.	–	–	–	EX.	EX.	MAS SV–3–TA	R,Y,G RA,YA,GA R,Y,G,YA,GA RA,YA,GA	Ø6 Ø1 Ø4+5 Ø5	–	–	–	–	REMOVE EX. SV–1–T MOUNTS AND REPLACE WITH WITH NEW SV–3–TC MOUNT TO ACCOMMODATE NEW Ø4+5 VEH. SIGNAL. PROTECT IN PLACE ALL OTHER EXISTING EQUIP.
J	EXIST.	EX.	EX.	EX.	EX.	EX.	EX.	TV–3–T	R,Y,G,YA,GA R,Y,G,YA,GA RA,YA,GA	Ø4+5 Ø6+7 Ø3	–	–	–	–	EXISTING EQUIPMENT TO REMAIN.
K	RESERVED FOR FUTURE USE														
L	EXIST.	EX.	EX.	EX.	LED 133W	EX.	EX.	MAS MAS SV–3–TB	R,Y,G R,Y,G RA,YA,GA R,Y,G,YA,GA RA,YA,GA	Ø8 Ø8 Ø3 Ø6+7 Ø7	SP–2–T	Ø6P Ø6P	–	–	REMOVE EX. SV–1–T AND SV–2–TB MOUNT AND REPLACE WITH NEW SV–3–TB MOUNT TO CONSOLIDATE POLE MOUNTED VEH SIGNAL HEADS. INSTALL NEW Ø6P PED. SIGNAL HEADS. REMOVE EX. LUMINAIRE AND REPLACE WITH NEW LED LUMINAIRE. REMOVE EX., INSTALL NEW, AND PROTECT IN PLACE SIGNS PER PLAN. PROTECT IN PLACE ALL OTHER EX. EQUIPMENT.
M	PPB	3.5'	–	–	–	STA 431+12.28, 6.07' RT		–	–	–	–	–		Ø6P	ALL NEW EQUIPMENT.

NOTE: LUMINAIRE TYPE, NXT–60M–5–7–3LB–7–GY–3–UL–X–2H.

DETECTOR SCHEDULE

DETECTOR	PHASE	SLOT	TERMINAL
1	Ø8	J6U	T5–9&10
2	Ø8	J6L	T5–11&12
3	Ø8	J8U	T7–5&6
4	Ø8	J8L	T7–7&8
5	Ø8	J9U	T7–9&10
6	Ø8	J7U	T7–1&2
7	Ø8	J7L	T7–3&4
8	Ø8P	J9L	T7–11&12
9	Ø3	I5U	T4–5&6
10	Ø4	I6U	T4–9&10
11	Ø4	I6L	T4–11&12
12	Ø4	I8U	T6–5&6
13	Ø4	I8L	T6–7&8
14	RESERVED FOR FUTURE USE		
15			
16	Ø4+5	I7U	T6–1&2
17	Ø4+5	I7L	T6–3&4
18	Ø7	J5U	T5–5&6
19	Ø6	J4U	VIDEO
20	Ø6	J4L	VIDEO
21	Ø6+7	J3L	VIDEO
22	Ø1	I1U	VIDEO
23	Ø2	I4U	T4–1&2
24	Ø2	I4L	T4–3&4
25	Ø5	J1U	T3–1&2
26	Ø8P	J5L	T5–7&8
PPB	Ø6P	I13U	T8–7&COM9
PPB	Ø8P	I13L	T8–8&COM9
EVA	Ø2+Ø5	J12U	T9–4&COM6
EVB	Ø4+Ø7	J13U	T9–7&COM9
EVD	Ø3+Ø8	J13L	T9–8&COM9
FLASH	FLASH	I14U	T8–10&COM12

NOTE: CONTRACTOR IS RESPONSIBLE TO USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING LOOP DETECTORS.

CONDUIT AND CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE AND RUN 4–4" (1)	4–3" (2)	3–3" (3)	3" (4)	2–3" (5)	3" (6)	3" (7)	3" (8)	3" (9)	3" (10)
3–COND.		POLE B	2 1		2 1							
		POLE C	1									1
		POLE E	1		1					1		
		POLE F	2		2						2	
		POLE G	1		1						1	
		POLE H	2	2			2		2			
		POLE I	2	2			2	2				
		POLE J	2	2			2					
		POLE L	2	2		2						
12		POLE M	1	1		1						
CONDUCTOR		TEMP. PPB	1	1		1						
TOTAL CABLES			6 12	2 8	4 3	1 2	1 6	2	2	1	1 2	1
#6		SIGNAL SERVICE	2									2
#8		COMMON GROUND	1	1	1	1	1	1	1	1	1	1
#10		SAFETY LIGHTING		2	2	2	2		2		2	2
#14		RR PREEMPTION	6									6
F.O.		SIG. INTERCONNECT	1									
TYPE 'B' DLC	Ø2	LOOP DETECTION	2	2			2		2			
	Ø3	" "	1		1						1	
	Ø4	" "	4	4		4						
	Ø4+5	" "	1	1		1						
	Ø5	" "	1	1			1	1				
	Ø7	" "	1	1		1						
	Ø8	" "	7		7						7	
	Ø8P	" "	2		1						1	
COMB. VIDEO CABLE+COAX		VIDEO DETECTION	1	1		1						
EV–DLC		EV DETECTION	3	3		1	2	1	1			
TOTAL CONDUCTORS / CABLES			51	26	19	14	15	5	8	2	15	12
CONDUIT FILL			19%	19%	13%	28%	26%	17%	19%	3%	27%	13%

NOTE: ALL NEW WIRING UNLESS NOTED AS EXISTING

PUBLIC CONTRACT

TRAFFIC SIGNAL PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT
32ND STREET – PHASE 1 – TABLES

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 164 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS–BUILTS				

1834–6287
NAD83 COORDINATES
XXX–XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370-164-D

811 Know what's below. Call before you dig.

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN ASSOCIATES
Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER WITHEN B. CAPUZZI NO. C 45 813 EXP. 12/30/20 CIVIL STATE OF CALIFORNIA

		DATE
DESIGNED BY	I. LOH, N.A.	5/19
DRAWN BY	I. LOH, N.A.	5/19
CHECKED BY	M. CAPUZZI	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

MAY 6, 2019

TRAFFIC SIGNAL GENERAL NOTES

1. PULL BOXES SHALL BE NO.6, AND CONDUIT 3" UNLESS NOTED OTHERWISE.
2. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE.
3. THE TRAFFIC SIGNAL CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PLAN PERMIT FROM THE CITY OF SAN DIEGO PERMIT CENTER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
4. ALL TRAFFIC SIGNAL POLE FOUNDATIONS SHALL HAVE A 3" CONDUIT INSTALLED TO THE ADJACENT PULL BOX AND THE CONTROLLER FOUNDATION SHALL HAVE A SPARE 3" CONDUIT INSTALLED TO THE ADJACENT #6 PULL BOX FOR FUTURE USE.
5. THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF LOOP DETECTORS, TRAFFIC STRIPING, PAVEMENT MARKINGS, PARKING REMOVAL AND TRAFFIC SIGNING (EXCEPT "G" SERIES STREET NAME SIGNS) AS SHOWN ON THESE PLANS.
6. THE TRAFFIC SIGNAL CONTRACTOR SHALL OBTAIN THE APPROVAL OF CITY RESIDENT ENGINEER OF THE LOOP LOCATION PRIOR TO CUTTING AND THE STRIPING, PAVEMENT MARKING, PARKING REMOVAL AND SIGN LOCATIONS PRIOR TO PAINTING AND INSTALLATION.
7. AFTER APPROVAL OF LOCATION, THE TRAFFIC SIGNAL CONTRACTOR SHALL WAIT A MINIMUM OF FIFTEEN (15) WORKING DAYS BEFORE PERMANENTLY REMOVING ANY PARKING, SO THAT ADVANCE NOTICE TO ADJACENT PROPERTY OWNERS CAN BE MADE BY THE CITY.
8. THE TRAFFIC SIGNAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL UNNECESSARY AND CONFLICTING STRIPING AND PAVEMENT MARKING.
9. THE TRAFFIC SIGNAL CONTRACTOR SHALL NOT ERECT ANY SIGNAL STANDARDS MORE THAN THREE (3) WEEKS PRIOR TO SCHEDULED TRAFFIC SIGNAL TURN ON.
10. CONTRACTOR SHALL PROVIDE ALL CABLING AND CONDUCTORS NECESSARY TO PERFORM ALL FUNCTIONS SHOWN ON THESE PLANS.
11. ALL POLES, CONDUIT, PULL BOXES, STRIPING AND LOOP DETECTOR LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND AS DIRECTED BY THE CITY OF SAN DIEGO.
12. ROUTING AND LOCATIONS OF UNDERGROUND ELECTRICAL SYSTEM IS DIAGRAMMATIC AND SUBJECT TO APPROVAL OF THE ENGINEER. UNDERGROUND ELECTRICAL LINES AND SUBSURFACE STRUCTURES MAY BE RELOCATED IF NECESSARY TO CLEAR OTHER EXISTING UNDERGROUND FACILITIES.
13. ALL TREES AND SHRUBS SHALL BE TRIMMED OR REMOVED AS DETERMINED BY THE CITY RESIDENT ENGINEER AS REQUIRED TO MAINTAIN SIGNAL HEAD VISIBILITY AND SIGHT DISTANCE.
14. ALL VEHICLE SIGNAL HEADS SHALL BE 12" WITH BACKPLATES.
15. ALL SIGNAL AND PEDESTRIAN INDICATIONS SHALL BE L.E.D.
16. ALL LOOPS TO BE TYPE "E" AS SHOWN ON THIS PLAN. LOOP DETECTORS SHALL BE 6' DIAMETER WITH 10' SPACING AND POSITIONED IN CENTER OF LANE UNLESS OTHERWISE SHOWN. SEE CALIFORNIA STANDARD PLAN SHEET ES-5B, FOR DETECTOR LEGEND AND DETAILS. FRONT LOOPS SHALL BE MODIFIED TYPE "E" LOOPS PER SDE-104.
17. PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS SHALL BE INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS SHALL BE 16"X18" L.E.D. COUNTDOWN INDICATIONS. PEDESTRIAN PUSH BUTTONS SHALL BE 2" PER ADA REQUIREMENTS.
18. PLACE TEXTURED HORIZONTAL YELLOW BAND 2 INCHES IN WIDTH ENCIRCLING THE POLE, AND A 1 INCH WIDE DARK BORDER BAND ABOVE AND BELOW THIS YELLOW BAND WHEN PPB ARE PLACED ON A TRAFFIC SIGNAL POLE. (PER CALIFORNIA BUILDING CODE 11B-703.7.2.7).
19. CONTACT BNSF MANAGER OF PUBLIC PROJECTS PRIOR TO ANY WORK WITHIN BNSF R/W OR ANY WORK AFFECTING GRADE OPERATIONS.
20. EXISTING RR INTERCONNECTION TO RR SIGNAL SYSTEM(S) TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. IF DAMAGED AT ANYTIME, CONTRACTOR MUST CONTACT BNSF AND MTS EMERGENCY RESPONSE IMMEDIATELY: (800) 832-542 AND (619) 595-4960.

POLE AND EQUIP. SCHEDULE

SEE SHEET 163

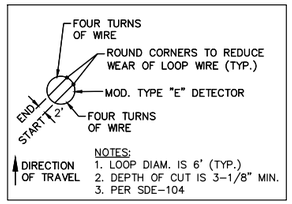
CONDUIT AND CONDUCTOR SCHEDULE

SEE SHEET 163

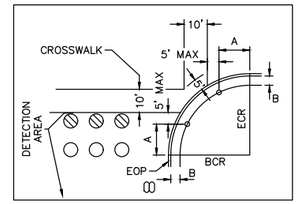
DETECTOR SCHEDULE

SEE SHEET 163

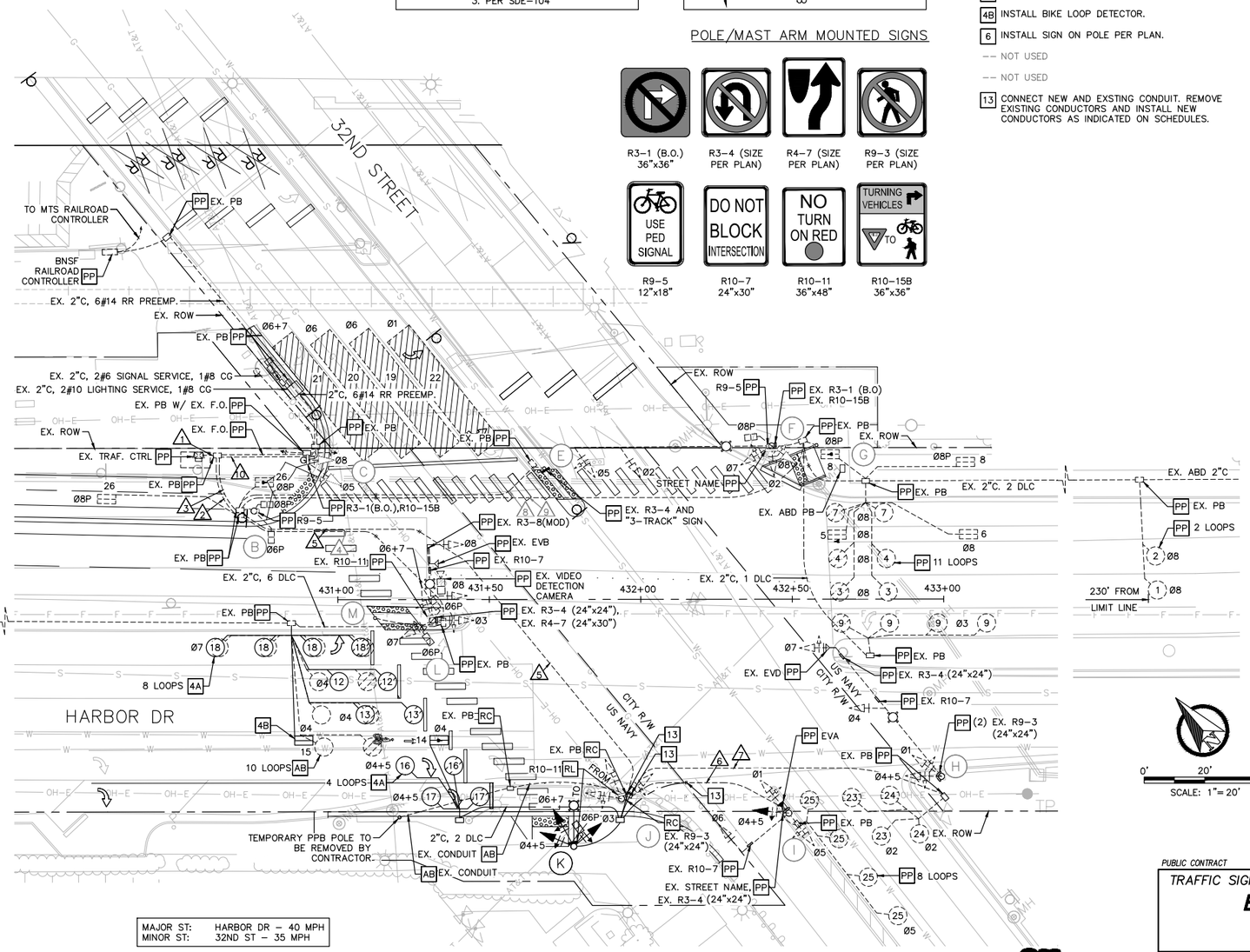
SAWCUT & WINDING DETAIL



DETECTOR LOOP & POLE DETAIL



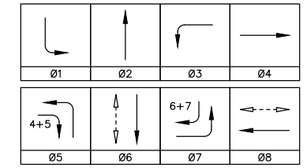
POLE/MAST ARM MOUNTED SIGNS



TRAFFIC SIGNAL CONSTRUCTION NOTES

- AB ABANDON AS NOTED. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- -- NOT USED
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND TO BECOME PROPERTY OF THE CONTRACTOR AS NOTED.
- PP PROTECT IN PLACE AS NOTED.
- -- NOT USED
- -- NOT USED
- 4A INSTALL VEHICLE LOOP DETECTOR.
- 4B INSTALL BIKE LOOP DETECTOR.
- 6 INSTALL SIGN ON POLE PER PLAN.
- -- NOT USED
- -- NOT USED
- 13 CONNECT NEW AND EXSTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL NEW CONDUCTORS AS INDICATED ON SCHEDULES.

PROPOSED PHASE DIAGRAM



PROPOSED FLASHING OPERATION IS ALL RED
LEADING PEDESTRIAN INTERVAL GIVEN IN Ø8

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS

DOCUMENT NO.	DESCRIPTION
PWPI070116-01	STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2015 EDITION
PWPI070116-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2015 EDITION
PWPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PITS070112-04	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECS. 2010 EDITION

STANDARD DRAWINGS

DOCUMENT NO.	DESCRIPTION
PWP1070116-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION
PWPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION

PUBLIC CONTRACT

TRAFFIC SIGNAL PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT
32ND STREET - PHASE 2

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 165 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

SCALE: AS SHOWN
CONTRACT NO. -
DRAWING NO. -
SHEET NO. 41370-165-D

811 Know what's below. Call before you dig.

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CHEN RYAN
Chen Ryan Associates, Inc.
3900 Fifth Ave, Suite 310
San Diego, CA 92103
619-795-6086
www.chenryanmobility.com

REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CAPUZZI NOT FOR CONSTRUCTION 10/30/20 CIVIL STATE OF CALIFORNIA

		DATE
DESIGNED BY	I. LOH, N.A.	5/19
DRAWN BY	I. LOH, N.A.	5/19
CHECKED BY	M. CAPUZZI	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

MAY 6, 2019

POLE & EQUIPMENT SCHEDULE

NO.	STANDARD TYPE	STANDARD HEIGHT	MAST ARM LEN. SIG.	MAST ARM LEN. LUM.	LUM.	STD. POLE PLACEMENT A	STD. POLE PLACEMENT B	VEHICLE SIGNAL MOUNTING	VEHICLE SIGNAL INDICATION	VEHICLE SIGNAL PHASE	PED SIGNAL MOUNTING	PED SIGNAL PHASE	PED PUSH BUTTON LOCATION	PED PUSH BUTTON PHASE	NOTES
A	NOT USED														
B	1-A	10'	–	–	–	EX.	EX.	–	–	–	SP-2-T	Ø6P Ø8P		Ø6P Ø8P	EXISTING EQUIPMENT TO REMAIN.
C	1-A	10'	–	–	–	EX.	EX.	TV-2-T MISC EQ	RA,YA,GA R,YA,FYA B.O.	Ø5 Ø8 Ø8LPI/RR	–	–	–	–	EXISTING EQUIPMENT TO REMAIN.
D	NOT USED														
E	1-A	10'	–	–	–	EX.	EX.	–	–	–	–	–		Ø8P	EXISTING EQUIPMENT TO REMAIN.
F	EXIST.	EX.	EX.	EX.	EX.	EX.	EX.	MAS MAS MISC. EQ. SV-3-TB	RA,YA,GA R,Y,G B.O. R,Y,G RA,YA,GA R,YA,FYA	Ø5 Ø2 Ø8LPI/RR Ø2 Ø7 Ø8	SP-1-T	Ø8P	–	–	EXISTING EQUIPMENT TO REMAIN.
G	PPB	3.5'	–	–	–	EX.	EX.	–	–	–	–	–		Ø8P	EXISTING EQUIPMENT TO REMAIN.
H	EXIST.	EX.	EX.	EX.	EX.	EX.	EX.	MAS CUSTOM SV-2-TB	RA,YA,GA R,Y,G R,Y,G,YA,GA RA,YA,GA	Ø7 Ø4 Ø4+5 Ø1	–	–	–	–	EXISTING EQUIPMENT TO REMAIN.
I	EXIST.	EX.	–	–	–	EX.	EX.	MAS SV-3-TA	R,Y,G RA,YA,GA R,Y,G,YA,GA RA,YA,GA	Ø6 Ø1 Ø4+5 Ø5	–	–	–	–	EXISTING EQUIPMENT TO REMAIN.
J	EXIST.	EX.	EX.	EX.	EX.	EX.	EX.	TV-3-T	R,Y,G,YA,GA R,Y,G,YA,GA RA,YA,GA	Ø4+5 Ø6+7 Ø3	–	–	–	–	REMOVE EX. POLE, SIGNS, FOUNDATION, AND ALL EQUIPMENT.
K	15TS	30'	–	–	–	STA 431+77.81, 81.50' RT		SV-3-TB	R,Y,G,YA,GA R,Y,G,YA,GA RA,YA,GA	Ø4+5 Ø6+7 Ø3	SP-1-T	Ø6P		Ø6P	ALL NEW EQUIPMENT.
L	EXIST.	EX.	EX.	EX.	EX.	EX.	EX.	MAS MAS SV-3-TB	R,Y,G R,Y,G RA,YA,GA R,Y,G,YA,GA RA,YA,GA	Ø8 Ø8 Ø3 Ø6+7 Ø7	SP-2-T	Ø6P Ø6P	–	–	EXISTING EQUIPMENT TO REMAIN.
M	PPB	3.5'	–	–	–	EX.	EX.	–	–	–	–	–		Ø6P	EXISTING EQUIPMENT TO REMAIN.

DETECTOR SCHEDULE

DETECTOR	PHASE	SLOT	TERMINAL
1	Ø8	J6U	T5-9&10
2	Ø8	J6L	T5-11&12
3	Ø8	J8U	T7-5&6
4	Ø8	J8L	T7-7&8
5	Ø8	J9U	T7-9&10
6	Ø8	J7U	T7-1&2
7	Ø8	J7L	T7-3&4
8	Ø8P	J9L	T7-11&12
9	Ø3	I5U	T4-5&6
10	Ø4	I6U	T4-9&10
11	Ø4	I6L	T4-11&12
12	Ø4	I8U	T6-5&6
13	Ø4	I8L	T6-7&8
14	Ø4	I9U	T6-9&10
15	Ø4	I9L	T6-11&12
16	Ø4+5	I7U	T6-1&2
17	Ø4+5	I7L	T6-3&4
18	Ø7	J5U	T5-5&6
19	Ø6	J4U	VIDEO
20	Ø6	J4L	VIDEO
21	Ø6+7	J3L	VIDEO
22	Ø1	I1U	VIDEO
23	Ø2	I4U	T4-1&2
24	Ø2	I4L	T4-3&4
25	Ø5	J1U	T3-1&2
26	Ø8P	J5L	T5-7&8
PPB	Ø6P	I13U	T8-7&COM9
PPB	Ø8P	I13L	T8-8&COM9
EVA	Ø2+Ø5	J12U	T9-4&COM6
EVB	Ø4+Ø7	J13U	T9-7&COM9
EVD	Ø3+Ø8	J13L	T9-8&COM9
FLASH	FLASH	I14U	T8-10&COM12

NOTE: CONTRACTOR IS RESPONSIBLE TO USE EXTREME CARE AND TAKE ALL PRECAUTIONARY MEASURES NOT TO DAMAGE EXISTING FUNCTIONING LOOP DETECTORS.

CONDUIT AND CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE AND RUN 4-4" (1)	4-3" (2)	3-3" (3)	3" (4)	2-3" (5)	3" (6)	3" (7)	3" (8)	3" (9)	3" (10)
3-COND.		POLE B	2 / 1		2 / 1							
		POLE C	/ 1									/ 1
		POLE E	1 /		/ 1					/ 1		
		POLE F	/ 2		/ 2						/ 2	
		POLE G	1 /		/ 1						/ 1	
		POLE H	/ 2	/ 2			/ 2		/ 2			
		POLE I	/ 2	/ 2			/ 2	/ 2				
		POLE K	1 / 2	/ 2		/ 1	/ 2					
12		POLE L	/ 2	/ 2		/ 2						
CONDUCTOR		POLE M	1 / 1	/ 1		/ 1						
TOTAL CABLES			6 / 12	2 / 8	4 / 3	1 / 2	1 / 6	/ 2	/ 2	1 /	1 / 2	/ 1
#6		SIGNAL SERVICE	2									2
#8		COMMON GROUND	1	1	1	1	1	1	1	1	1	1
#10		SAFETY LIGHTING		2	2	2	2		2		2	2
#14		RR PREEMPTION	6									6
F.O.		SIG. INTERCONNECT	1									
TYPE 'B' DLC	Ø2	LOOP DETECTION	2	2			2		2			
	Ø3	" "	1		1						1	
	Ø4	" "	6	6		5	1					
	Ø4+5	" "	2	2			2					
	Ø5	" "	1	1			1	1				
	Ø7	" "	1	1		1						
	Ø8	" "	7		7						7	
	Ø8P	" "	2		1						1	
COMB. VIDEO CABLE+COAX		VIDEO DETECTION	1	1		1						
EV-DLC		EV DETECTION	3	3		1	2	1	1			
TOTAL CONDUCTORS / CABLES			54	29	19	14	18	5	8	2	15	12
CONDUIT FILL			19%	20%	13%	28%	27%	17%	19%	3%	27%	13%

NOTE: ALL NEW WIRING UNLESS NOTED AS EXISTING

PUBLIC CONTRACT

TRAFFIC SIGNAL PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT
32ND STREET – PHASE 2 – TABLES

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 166 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-166-D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1

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619-795-6086
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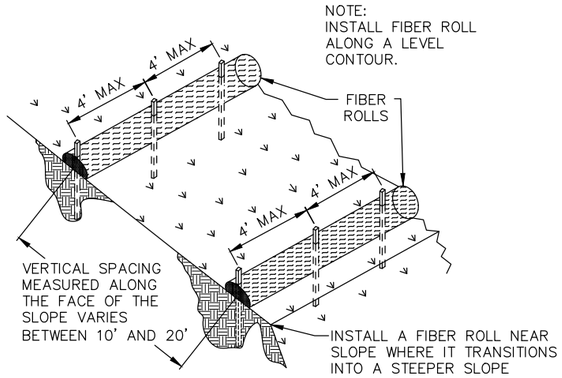
REGISTERED PROFESSIONAL ENGINEER MATTHEW B. CAPUZZI NO. 76730 CIVIL STATE OF CALIFORNIA NOT FOR CONSTRUCTION

DESIGNED BY	I. LOH, N.A.	DATE 5/19
DRAWN BY	I. LOH, N.A.	5/19
CHECKED BY	M. CAPUZZI	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

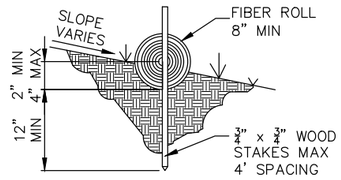
SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

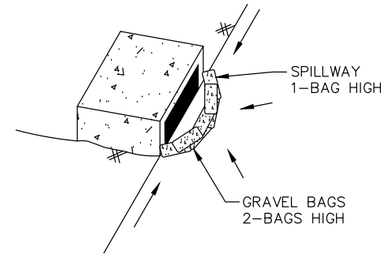
MAY 6, 2019



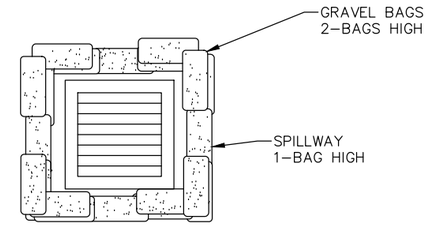
TYPICAL FIBER ROLL INSTALLATION
N.T.S.



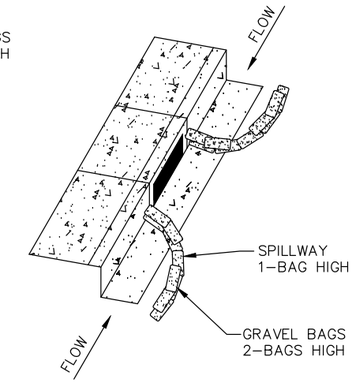
ENTRENCHMENT DETAIL
N.T.S.



GRAVEL BAG INLET PROTECTION AT CURB INLET
N.T.S.



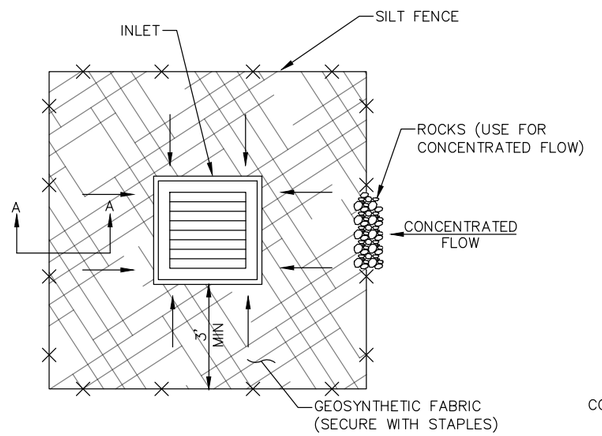
GRAVEL BAG INLET PROTECTION AT GRATE INLET
N.T.S.



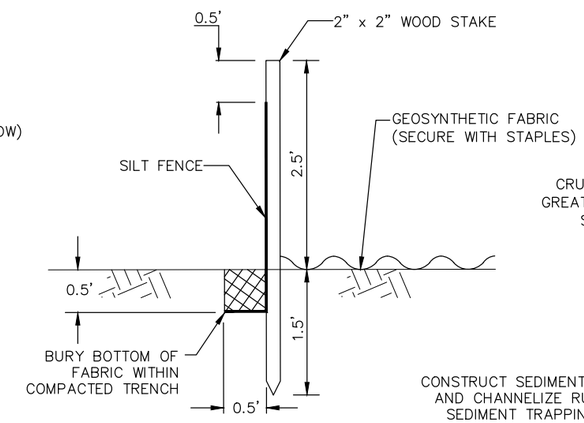
GRAVEL BAG INLET PROTECTION AT CURB INLET
N.T.S.

LEGEND:

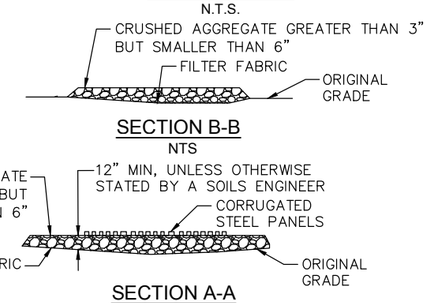
- GRAVEL BAG CHANNEL PROTECTION
- FR — FIBER ROLL
- GRAVEL BAG CURB INLET PROTECTION
- GRAVEL BAG INLET PROTECTION
- TEMPORARY CHECK DAM
- SILT FENCE INLET PROTECTION
- SAWCUT
- STABILIZED CONSTRUCTION ENTRANCE



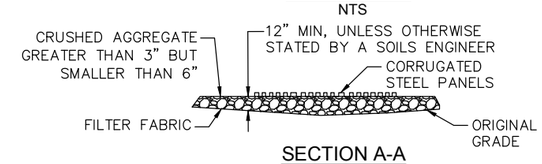
SILT FENCE INLET PROTECTION AT GRATE INLET
PLAN
N.T.S.



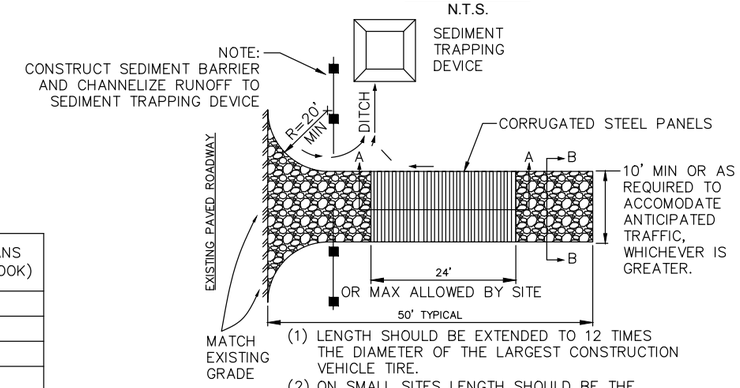
SILT FENCE SECTION A-A
N.T.S.



SECTION B-B
NTS

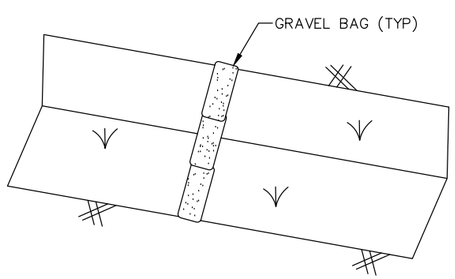


SECTION A-A
N.T.S.



(1) LENGTH SHOULD BE EXTENDED TO 12 TIMES THE DIAMETER OF THE LARGEST CONSTRUCTION VEHICLE TIRE.
(2) ON SMALL SITES LENGTH SHOULD BE THE MAXIMUM ALLOWED BY SITE.

STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



CHECK DAM
N.T.S.

ADDITIONAL BMPS REQUIRED AT THE FOLLOWING LOCATIONS/ACTIVITIES:

LOCATION/ ACTIVITY	POTENTIAL POLLUTANT SOURCES	BMP REQUIRED (PER CALTRANS STORMWATER QUALITY HANDBOOK)
STOCKPILING	AGGREGATE BASE, SOIL	SS-1, WM-3
SAW CUTTING ASPHALT	SLURRY WATER	WM-10, NS-3
CONCRETE WASHOUTS	WASH WATER	WM-4, WM-8, WM-10, NS-1, NS-6
ON-SITE STORAGE AREAS	LANDSCAPING MATERIALS, REBAR, MASONRY BLOCK	WM-1
TRASH/SOLID WASTE AREAS	LITTER, LANDSCAPING WASTE/BRUSH REMOVAL	WM-5
PAVEMENT DELINEATION	HAZARDOUS MATERIAL (PAINT)	WM-6
EQUIPMENT/VEHICLE FUELING	ENGINE FLUIDS, OIL, GREASE, FUEL	WM-4, NS-9
PORTABLE SANITARY FACILITIES	SANITARY WASTE	WM-4, WM-9
SANDBLASTING (PAINT REMOVAL)	SANDBLASTING MEDIA AND PAINT PARTICULATES	WE-1, NS-3

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

EROSION CONTROL FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 167 OF 187 SHEETS

PROJECT NO. _____
V.T.M. _____

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- 167-**D**

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

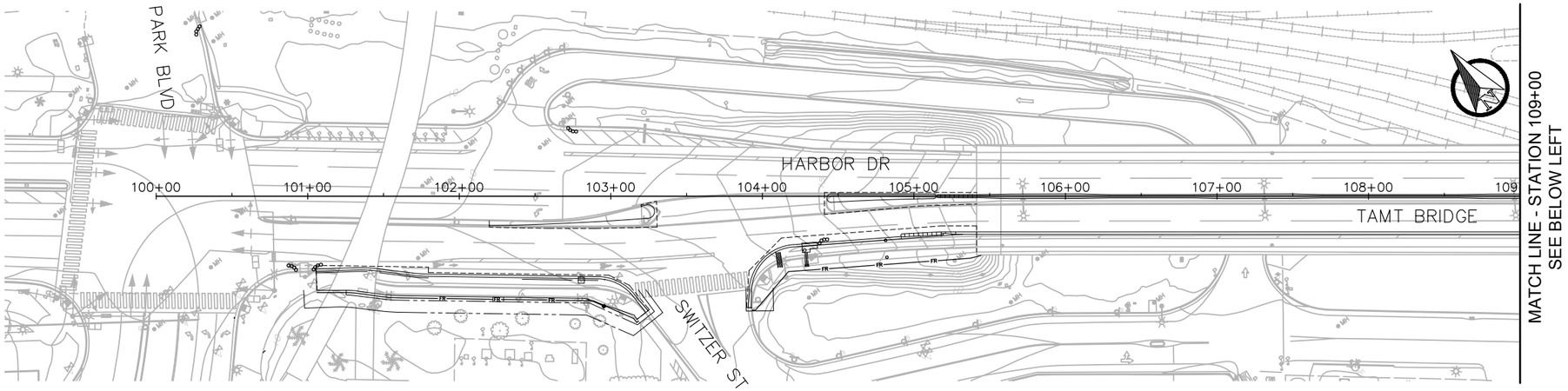
		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

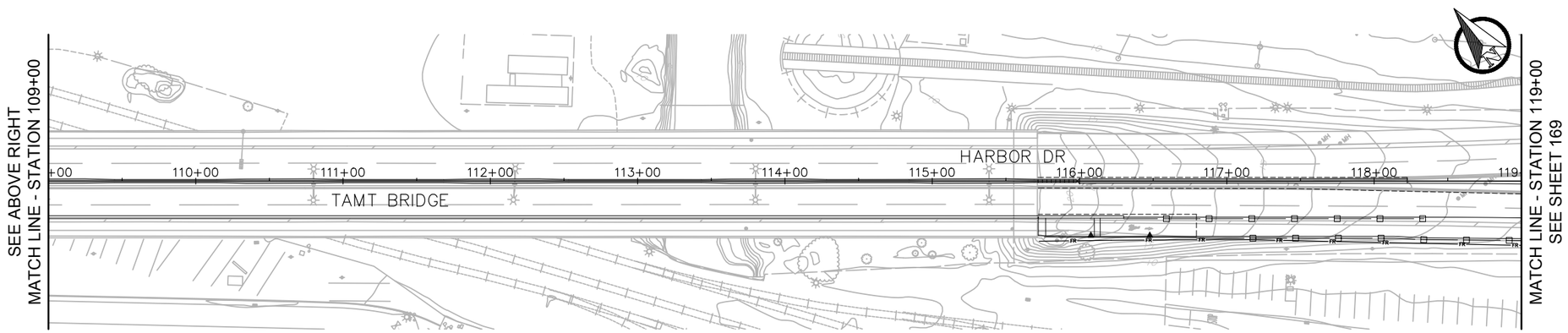
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/2/2019 12:14:18 PM

NOT FOR CONSTRUCTION – MAY 6, 2019



PLAN



PLAN

LEGEND:

- GRAVEL BAG CHANNEL PROTECTION
- FIBER ROLL
- GRAVEL BAG CURB INLET PROTECTION
- GRAVEL BAG INLET PROTECTION
- TEMPORARY CHECK DAM
- SILT FENCE INLET PROTECTION
- SAWCUT
- STABILIZED CONSTRUCTION ENTRANCE

40 0 40 80 FEET

1"=40'

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0 1/2 1

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CIVIL
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DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN

CONTRACT NO. –

DRAWING NO. –

SHEET NO.

PUBLIC CONTRACT

EROSION CONTROL FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 168 OF 187 SHEETS

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____

V.T.M. _____

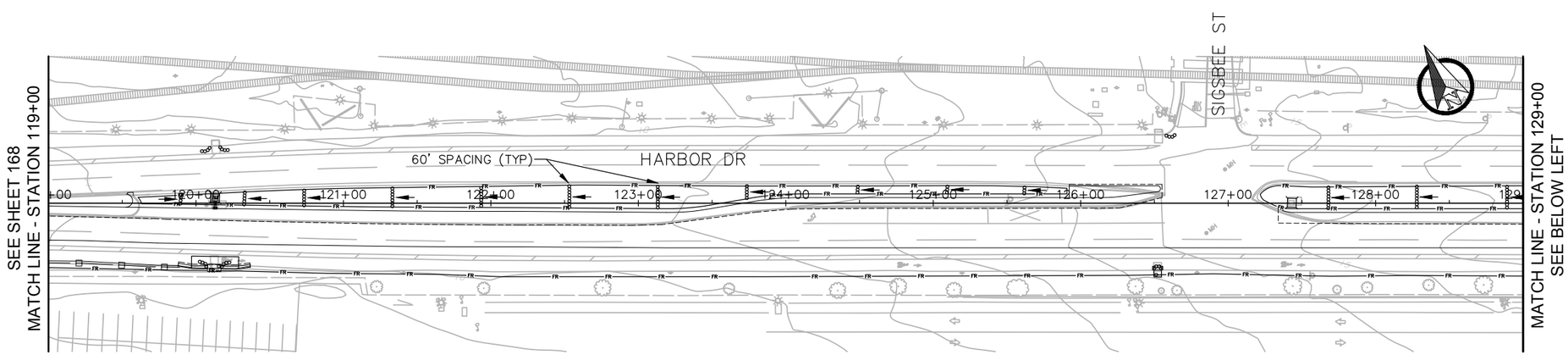
1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

41370-168-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 12:18:21 PM



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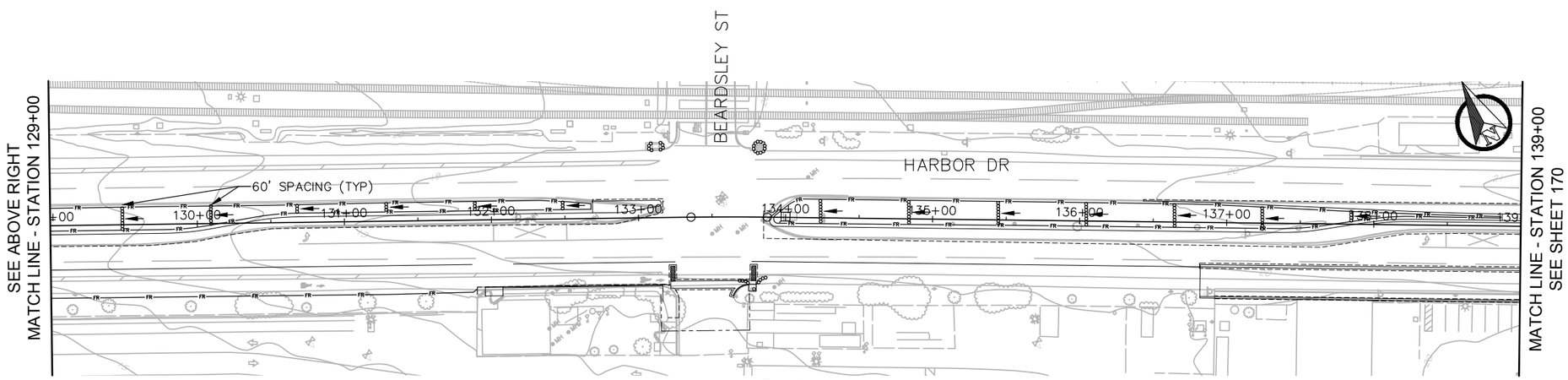

PLAN

LEGEND:

- GRAVEL BAG CHANNEL PROTECTION
- FIBER ROLL
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- SAWCUT
- STABILIZED CONSTRUCTION ENTRANCE

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PUBLIC CONTRACT

EROSION CONTROL FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 169 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR — DATE STARTED
INSPECTOR — DATE COMPLETED

SHEET NO. 41370-169-D

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –

DESIGNED BY	A. RIVERA	DATE 5/19
DRAWN BY	A. RAMIREZ	5/19
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

0 1/2 1
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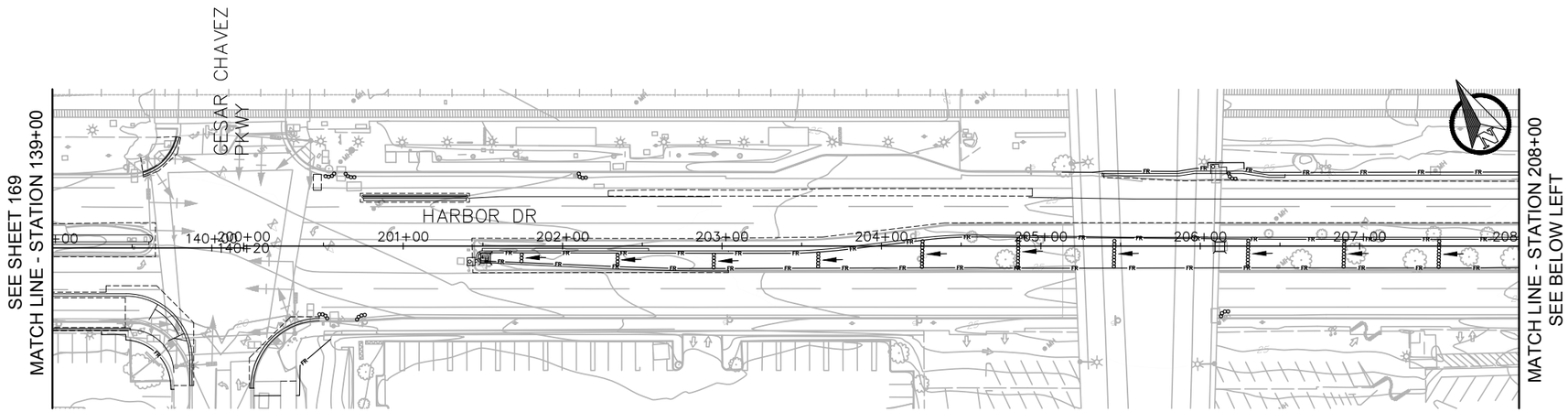

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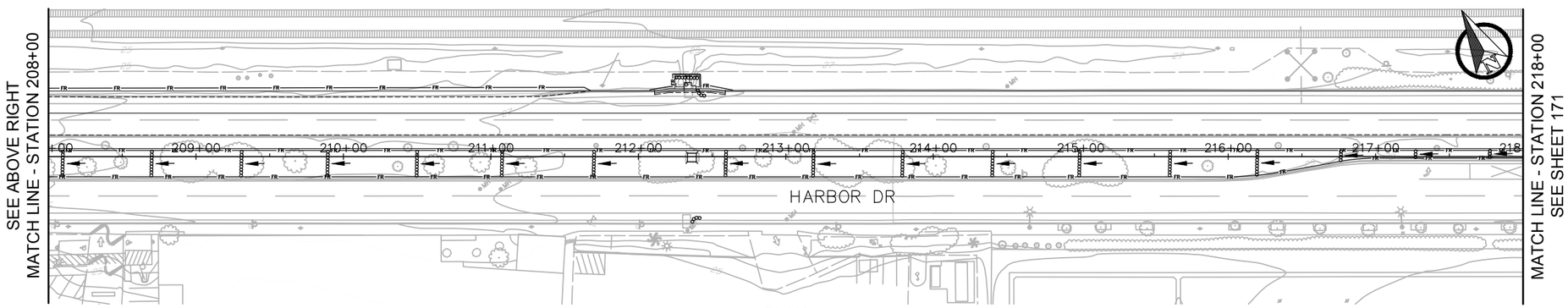

PLAN

LEGEND:

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CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

EROSION CONTROL FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 170 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

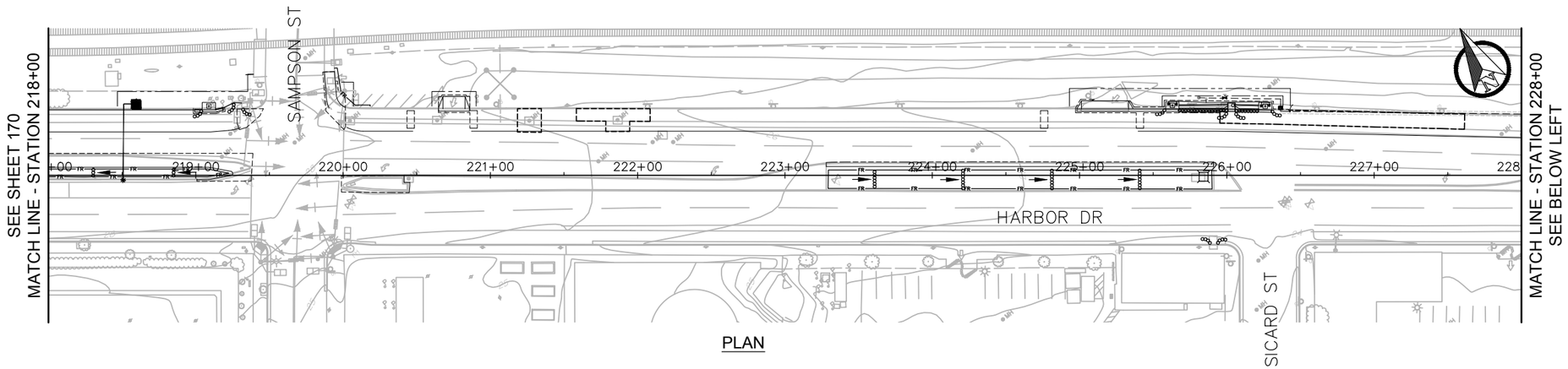
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370-170-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 12:27:03 PM



PLAN

LEGEND:

- GRAVEL BAG CHANNEL PROTECTION
- FIBER ROLL
- GRAVEL BAG CURB INLET PROTECTION
- GRAVEL BAG INLET PROTECTION
- TEMPORARY CHECK DAM
- SILT FENCE INLET PROTECTION
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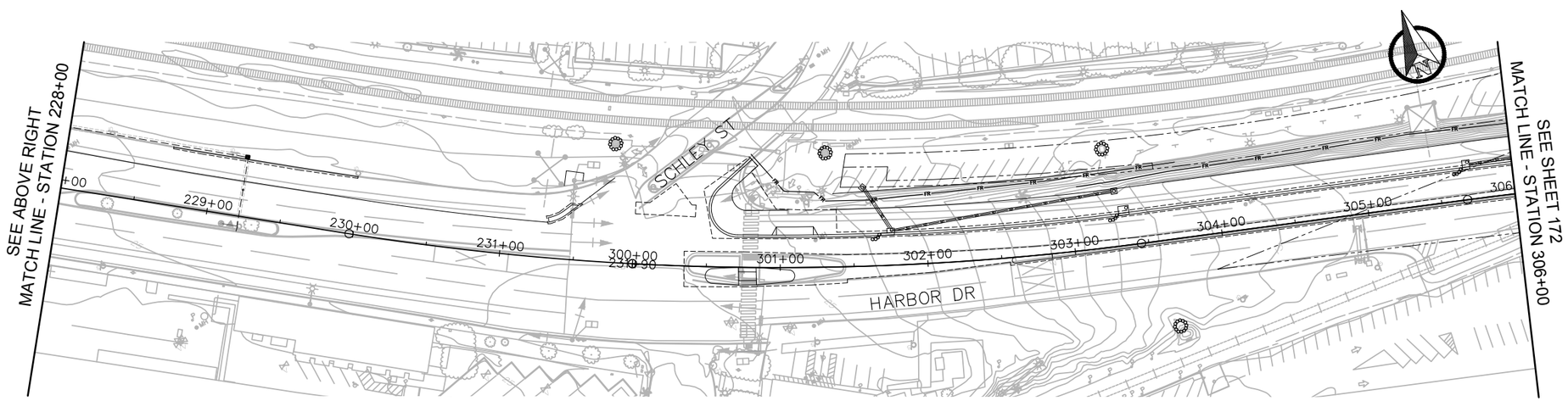
- STABILIZED CONSTRUCTION ENTRANCE



PLAN

40 0 40 80 FEET
1"=40'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

EROSION CONTROL FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 171 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- 171-**D**

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
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Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
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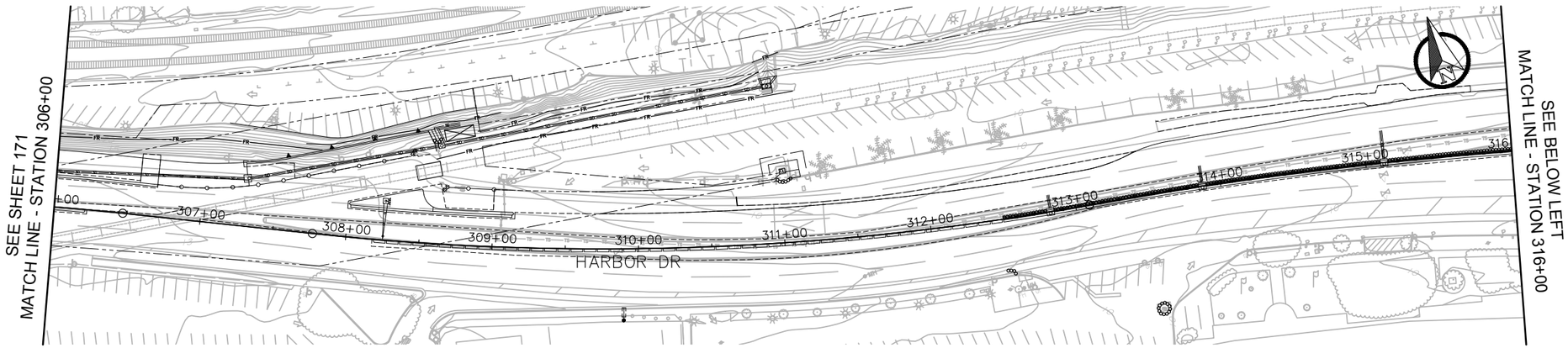
CHECKED BY	K. BRADBURY	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

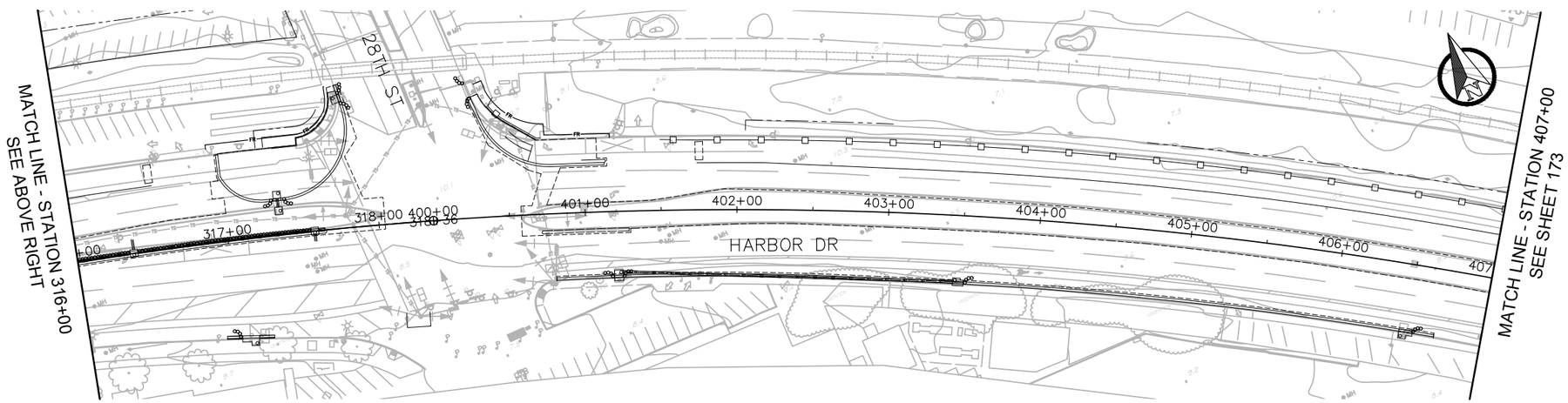
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/2/2019 12:30:45 PM

NOT FOR CONSTRUCTION – MAY 6, 2019



PLAN



PLAN

LEGEND:

- GRAVEL BAG CHANNEL PROTECTION
- FIBER ROLL
- GRAVEL BAG CURB INLET PROTECTION
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- SILT FENCE INLET PROTECTION
- SAWCUT
- STABILIZED CONSTRUCTION ENTRANCE

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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY A. RAMIREZ	5/19	
CHECKED BY K. BRADBURY	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

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SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

EROSION CONTROL FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 172 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

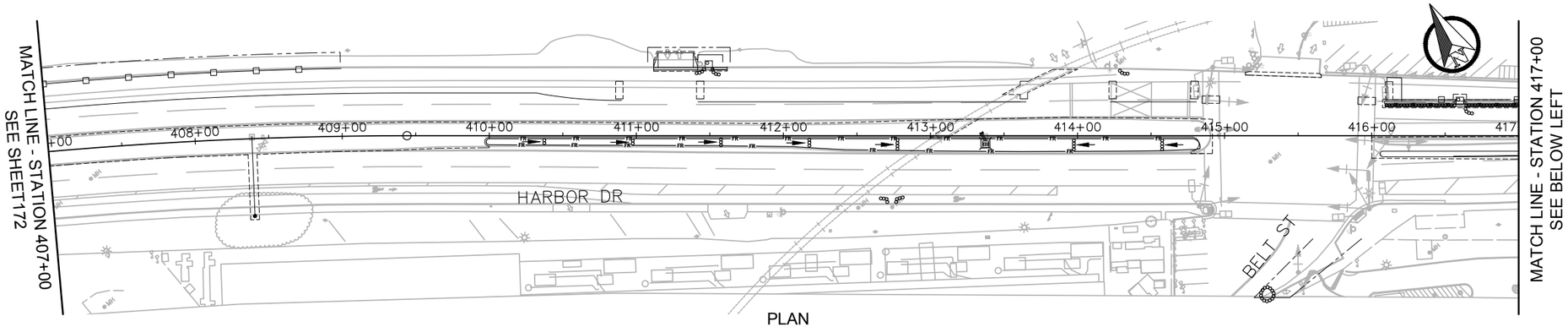
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370-172-**D**

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 12:35:19 PM



PLAN

LEGEND:

- GRAVEL BAG CHANNEL PROTECTION
- FIBER ROLL
- GRAVEL BAG CURB INLET PROTECTION
- GRAVEL BAG INLET PROTECTION
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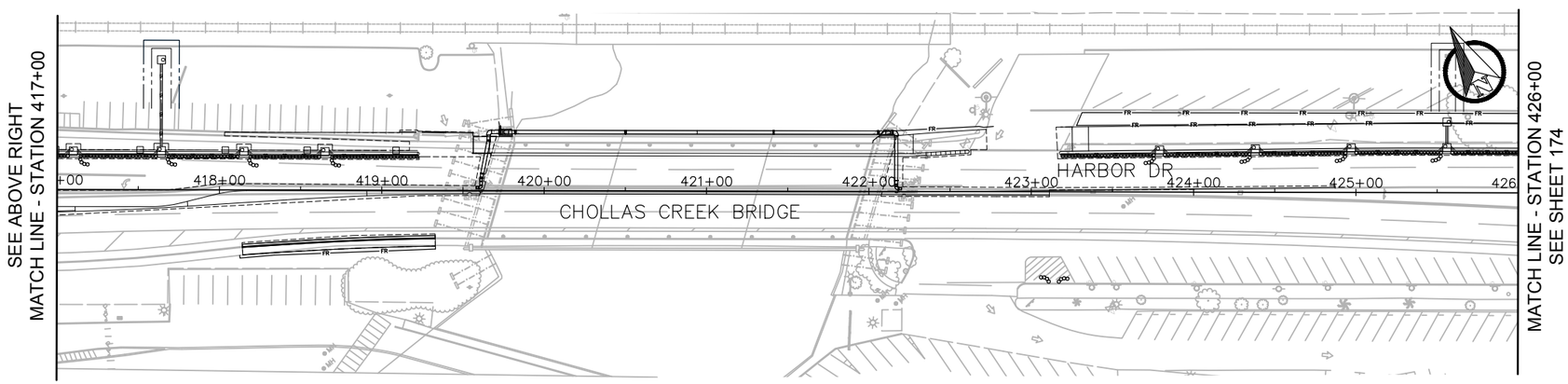
- SAWCUT
- STABILIZED CONSTRUCTION ENTRANCE



PLAN

40 0 40 80 FEET
1"=40'

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0 1/2 1
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PUBLIC CONTRACT

EROSION CONTROL FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 173 OF 187 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370-173-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 12:39:49 PM

LEGEND:

- GRAVEL BAG CHANNEL PROTECTION
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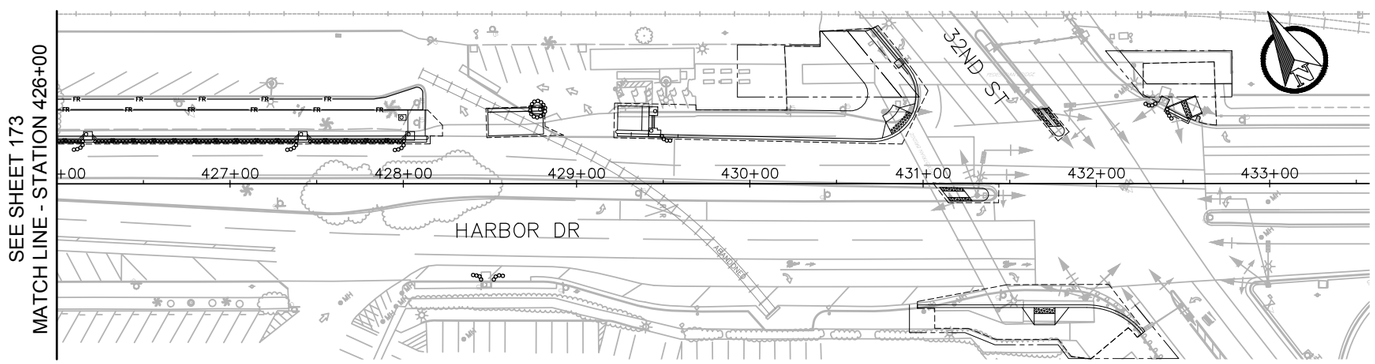

PLAN

40 0 40 80 FEET
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CIVIL
STATE OF CALIFORNIA

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SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

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CONTRACT NO. –
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SHEET NO.

PUBLIC CONTRACT

EROSION CONTROL FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 174 OF 187 SHEETS

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

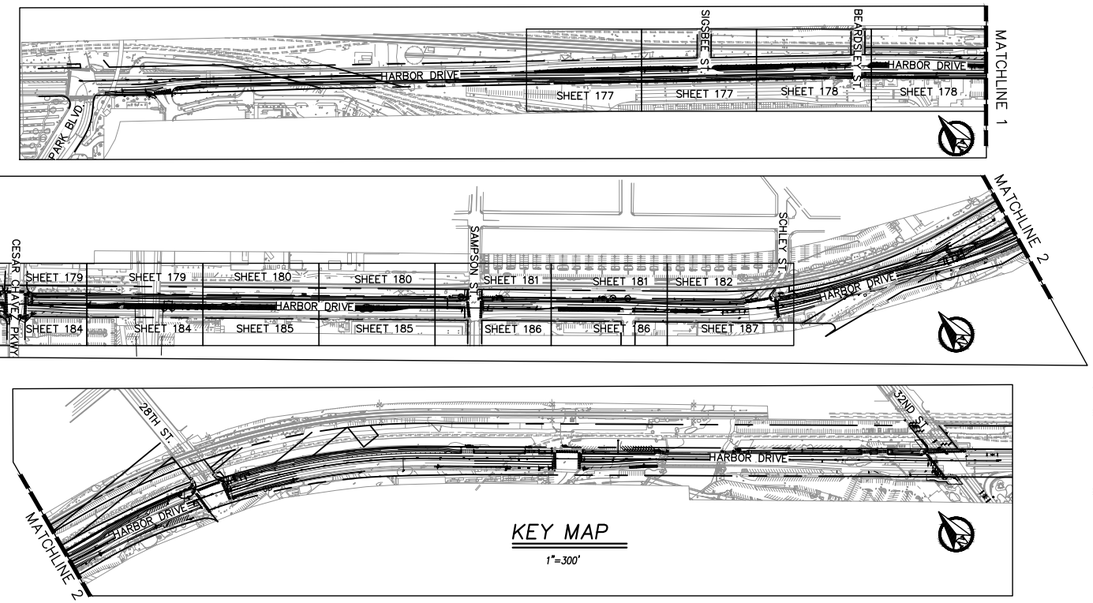
PROJECT NO. _____
V.T.M. _____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

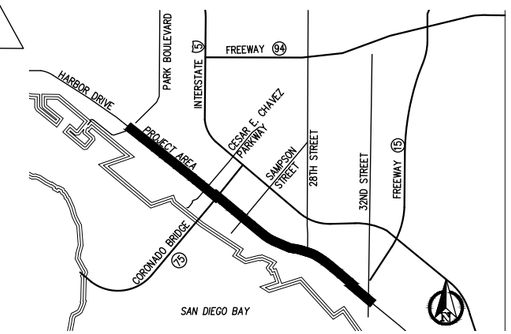
41370-174-D

5/2/2019 12:44:14 PM

NOT FOR CONSTRUCTION – MAY 6, 2019

LANDSCAPE PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT





VICINITY MAP
NO SCALE

LANDSCAPE PLANTING AND IRRIGATION SHEET INDEX

175	TITLE SHEET
176	PLANTING DETAILS AND NOTES
177	PLANTING PLAN
178	PLANTING PLAN
179	PLANTING PLAN
180	PLANTING PLAN
181	PLANTING PLAN
182	PLANTING PLAN
183	IRRIGATION LEGEND AND NOTES
184	IRRIGATION PLAN
185	IRRIGATION PLAN
186	IRRIGATION PLAN
187	IRRIGATION PLAN

PUBLIC CONTRACT

LANDSCAPE PLANTING AND IRRIGATION PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET175 OF 187 SHEETS

PROJECT NO._____

V.T.M._____

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR_____ DATE STARTED_____
INSPECTOR_____ DATE COMPLETED_____

41370-175-D

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7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com
SCHMIDT DESIGN GROUP

LICENSED LANDSCAPE ARCHITECT
JEFF A. JUSTUS No. 4028
SIGNATURE 05-31-19
RENEWAL DATE
05-06-19
DATE
STATE OF CALIFORNIA

DESIGNED BY	JM	DATE 5/19
DRAWN BY	TS	5/19
CHECKED BY	JM/JJ	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 5:41:42 PM

TREE PROTECTION NOTES:

A. THE CONTRACTOR SHALL RETAIN A CERTIFIED ARBORIST TO EVALUATE EXISTING TREE HEALTH AND TREE PROTECTION AS INDICATED BELOW.

B. SUBMITTALS - CONTRACTOR SHALL PROVIDE THE FOLLOWING SUBMITTALS:

1. PLANS SHOWING LOCATIONS OF PROTECTION-ZONE FENCING AND SIGNAGE, SHOWING RELATION OF EQUIPMENT-MOVEMENT ROUTES AND MATERIAL STORAGE LOCATIONS WITH PROTECTION ZONES.
2. DETAIL FABRICATION AND ASSEMBLY OF PROTECTION-ZONE FENCING AND SIGNAGE.
3. PLAN SHOWING EXTENT OF TRENCHING BY HAND OR WITH AIR SPADE WITHIN PROTECTION ZONES.
4. TREE PRUNING SCHEDULE: WRITTEN SCHEDULE DETAILING SCOPE AND EXTENT OF PRUNING OF TREES TO REMAIN THAT INTERFERE WITH OR ARE AFFECTED BY CONSTRUCTION
5. CERTIFICATION FROM ARBORIST, CERTIFYING THAT TREES INDICATED TO REMAIN HAVE BEEN PROTECTED DURING CONSTRUCTION ACCORDING TO RECOGNIZED STANDARDS AND THAT TREES WERE PROMPTLY AND PROPERLY TREATED AND REPAIRED WHEN DAMAGED.
6. MAINTENANCE RECOMMENDATIONS FROM ARBORIST, FOR CARE AND PROTECTION OF TREES AFFECTED BY CONSTRUCTION DURING AND AFTER COMPLETING THE WORK.
7. DOCUMENTATION OF EXISTING TREES AND PLANTINGS INDICATED TO REMAIN, WHICH ESTABLISHES PRECONSTRUCTION CONDITIONS THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.
   a. USE SUFFICIENTLY DETAILED PHOTOGRAPHS OR VIDEO RECORDINGS.
   b. INCLUDE PLANS AND NOTATIONS TO INDICATE SPECIFIC WOUNDS AND DAMAGE CONDITIONS OF EACH TREE OR OTHER PLANTS DESIGNATED TO REMAIN.

C. EXISTING VEGETATION PROTECTION - EXISTING TREES AND VEGETATION TO REMAIN ON SITE WITHIN THE AREA OF WORK SHALL BE PROTECTED IN PLACE UNLESS SPECIFICALLY NOTED ON THE DEMOLITION PLAN. PROVIDE THE FOLLOWING VEGETATION PROTECTION MEASURES:
1. A BRIGHT YELLOW OR ORANGE TEMPORARY FENCE PLACED AROUND THE EXISTING TREES AT THE DRIP LINE.
2. STOCKPILING, TOPSOIL DISTURBANCE, VEHICLE USE OR IDLING UNDER TREES, AND MATERIAL STORAGE OF ANY KIND IS PROHIBITED WITHIN THE DRIP LINE.
3. A TREE WATERING SCHEDULE SHALL BE MAINTAINED AND DOCUMENTED DURING CONSTRUCTION.

D. VEGETATION REPAIR AND REPLACEMENT - REPAIR OR REPLACE TREES, SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN THAT ARE DAMAGED BY CONSTRUCTION OPERATIONS:
1. REPAIR: SUBMIT DETAILS OF PROPOSED PRUNING AND REPAIRS. PERFORM REPAIRS OF DAMAGED TRUNKS, BRANCHES, AND ROOTS WITHIN 24 HOURS ACCORDING TO ARBORIST'S WRITTEN INSTRUCTIONS.
2. REPLACE: TREES AND OTHER PLANTS THAT CANNOT BE REPAIRED AND RESTORED TO FULL-GROWTH STATUS SHALL BE REPLACED AS FOLLOWS:
   a. REMOVE AND REPLACE TREES INDICATED TO REMAIN THAT ARE MORE THAN 50 PERCENT DEAD OR IN AN UNHEALTHY CONDITION BEFORE THE END OF THE CORRECTIONS PERIOD OR ARE DAMAGED DURING CONSTRUCTION OPERATIONS THAT LANDSCAPE ARCHITECT DETERMINES ARE INCAPABLE OF RESTORING TO NORMAL GROWTH PATTERN.
   b. SMALL TREES: PROVIDE NEW TREES OF SAME SIZE AS THOSE BEING REPLACED FOR EACH TREE THAT MEASURES 6 INCHES OR SMALLER IN CALIPER SIZE.
   c. LARGE TREES: PROVIDE ONE NEW TREE OF 6-INCH SIZE CALIPER SIZE FOR EACH TREE BEING REPLACED THAT MEASURES MORE THAN 6 INCHES IN CALIPER SIZE.
   d. SHRUBS: PROVIDE ONE NEW SHRUB OF 15 GALLON SIZE FOR EACH SHRUB BEING REPLACED.
   e. SPECIES: TO MATCH EXISTING.

PLANTING NOTES:

1. APPLICABLE STANDARD DRAWINGS AND SPECIFICATIONS:
   - CALTRANS STANDARD SPECIFICATIONS, 2015 EDITION
   - CITY OF SAN DIEGO STANDARD DRAWINGS
2. CONTRACTOR SHALL REVIEW PLANTING INSTALLATION DETAILS PRIOR TO BEGINNING WORK.
3. ALL PLANTS SHALL BE IN ACCORDANCE WITH ANSI Z60.1 (LATEST EDITION).
4. ALL WORK WILL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF SAN DIEGO, OR THE OTHER GOVERNING AGENCIES AND THE TECHNICAL SPECIFICATIONS FOR THE PROJECT.
5. CONTRACTOR SHALL IMMEDIATELY, UPON THE AWARD OF THE CONTRACT, ORDER, LOCATE AND PURCHASE (OR HAVE HELD) ALL PLANT MATERIAL REQUIRED BY THESE PLANS AND SPECIFICATIONS.
6. ALL PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT UNACCEPTABLE PLANT MATERIAL ON OR AFTER DELIVERY TO THE SITE.
7. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY REPAIRS MADE NECESSARY THROUGH THE ACTIONS OR NEGLIGENCE OF HIS EMPLOYEES AND SUBCONTRACTORS.
8. SOIL MIX FOR TREE AND SHRUB PITS:
   PLANTING AND BACKFILL MIX FOR TREE PITS AND TABLETS SHALL BE AS FOLLOWS PER CUBIC YARD:
   - 70% OF NATIVE SOIL
   - 30% HUMIC COMPOST AVAILABLE THROUGH AGRISERVICE OR APPROVED EQUAL
   - 16 LBS GRO-POWER PLUS
   - 2 LBS. FERROUS SULFATE

   THOROUGHLY BLEND THE ABOVE AT A CENTRAL ON-SITE LOCATION PRIOR TO USE. THE FERROUS SULFATE SHOULD NOT CONTACT PAVING SURFACES AS STAINING WILL RESULT.

   FILTERRA MEDIA IN PLANTERS:
   PROVIDED BY MANUFACTURER.

9. ALL TREES WITHIN 10' OR LESS OF HARDSCAPE SHALL BE INSTALLED WITH A ROOT BARRIER. ROOT BARRIER SHALL BE INSTALLED PARALLEL TO HARDSCAPE SURFACE FOR A DISTANCE OF 12' FROM THE CENTER LINE OF THE TREE TRUNK IN BOTH DIRECTIONS, OR AS INDICATED ON PLAN. ROOT BARRIER SHALL BE 19.5" DEEP BIO-BARRIER OR APPROVED EQUAL.
10. ALL PLANTING SHALL BE GUARANTEED THROUGH THE ESTABLISHMENT PERIOD. ESTABLISHMENT PERIOD SHALL BE 90 DAYS. TREES AND SHRUBS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR, BEGINNING FROM THE DATE OF FINAL ACCEPTANCE AFTER THE ESTABLISHMENT PERIOD.
11. USERS OF THIS DRAWING IS CAUTIONED THAT THE UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEE, NOR IS THERE GUARANTEE THAT ALL EXISTING UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT, ARE SHOWN ON THESE DRAWINGS. PRIOR TO WORKING IN THE VICINITY OF THE UTILITY, THE CONTRACTOR SHALL NOTIFY CALL BEFORE YOU DIG 811. THIS SHOULD BE DONE AT LEAST TWO (2) BUT NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO START OF WORK.

CITY OF SAN DIEGO LANDSCAPING NOTES:

1. A MINIMUM ROOT ZONE OF 40 SQ. FT. IN AREA SHALL BE PROVIDED FOR ALL TREES. THE MINIMUM DIMENSION FOR THIS AREA SHALL BE 5 FT. PER SDMC 142.0403(b)(5).
2. MINIMUM TREE SEPARATION DISTANCE UNLESS APPROVED BY THE CITY:

-TRAFFIC SIGNALS/ STOP SIGNS	20 FT.
-UNDERGROUND UTILITY LINES	5 FT. (10 FT. FOR SEWER)
-ABOVE GROUND UTILITY LINES	10 FT.
-DRIVEWAY ENTRIES	10 FT.
-INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS)	25 FT.

3. NO OBSTRUCTION INCLUDING LANDSCAPING OR SOLID WALLS WITHIN THE VISIBILITY TRIANGLE SHALL EXCEED 36" IN HEIGHT.
4. VEGETATION SHALL BE MAINTAINED IN SUCH A MANNER AS TO ALLOW IMMEDIATE ACCESS TO ALL HYDRANTS, VALVE, FIRE DEPARTMENT CONNECTIONS, PULL STATIONS, EXTINGUISHERS, SPRINKLER RISERS, ALARM CONTROL PANELS, RESCUE WINDOWS, AND OTHER DEVICES OR AREAS USED FOR FIREFIGHTING PURPOSES.
5. VEGETATION OR BUILDING FEATURES SHALL NOT OBSTRUCT ADDRESS NUMBERS OR INHIBIT THE FUNCTIONING OF ALARM BELLS, HORNS OR STROBES.
6. TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE, SECTION 142.0403(b)(10).
7. IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPAIRED AND/OR REPLACED IN KIND AND EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE.

PLANTING LEGEND:

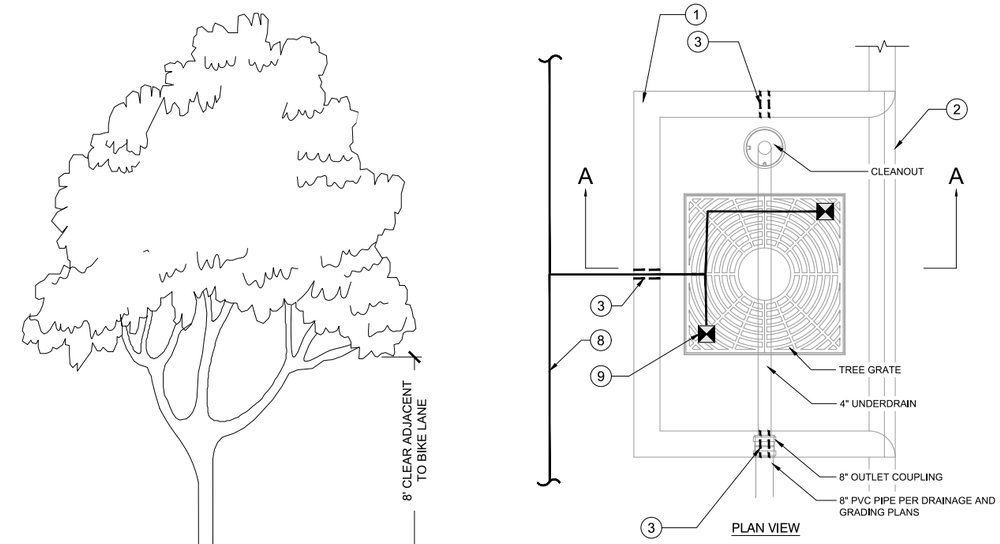
TREES	BOTANICAL NAME	COMMON NAME	CONT	DETAIL
	EXISTING TREE TO BE PROTECTED			
	PODOCARPUS GRACILIOR	FERN PINE	24" BOX	SDL-101
	FILTERRA UNIT PER DRAINAGE AND GRADING PLANS			DETAIL 1, THIS SHEET

PLANTING AREAS

NEW 2" DEPTH MULCH FOREST FINES BY AGRISERVICE OR APPROVED EQUAL.

PROTECT EXISTING PLANTING UNLESS OTHERWISE SPECIFICALLY NOTED ON DEMOLITION PLANS. CLEAR AND GRUB ALL WEEDS. INSTALL 2" DEPTH MULCH FOREST FINES BY AGRISERVICE OR APPROVED EQUAL.

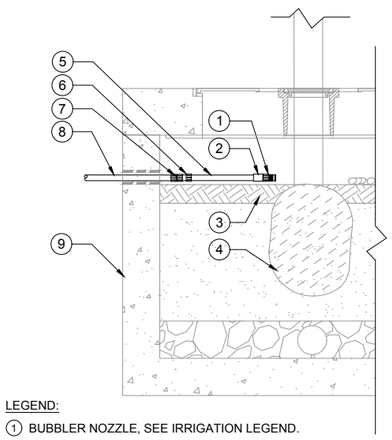
STRIPING PER CIVIL



NOTES:
A. SEE CIVIL PLANS FOR LAYOUT AND GRADING. CONTRACTOR IS RESPONSIBLE TO ENSURE THE GRADING AT THE FILTERRA UNIT ALLOWS STORM WATER TO ENTER THE UNIT PER THE MANUFACTURER'S RECOMMENDATIONS.

LEGEND:
1. FILTERRA UNIT PER CIVIL PLANS
2. CURB AND GUTTER (SEE IMPROVEMENT PLANS)
3. 2" DIA. IRRIGATION PORT, TYP. 3 PLACES
4. TREE ROOTBALL
5. 6" UNDERDRAIN, STONE LAYER (BY MANUFACTURER), FILTERRA MEDIA (BY MANUFACTURER)
6. ENERGY DISSIPATION ROCKS (BY MANUFACTURER)
7. 3" MULCH LAYER (BY MANUFACTURER)
8. IRRIGATION LATERAL LINE, SEE IRRIGATION LEGEND AND DETAIL 2, THIS SHEET, FOR MORE INFORMATION.
9. IRRIGATION EMITTER, SEE DETAIL 2, THIS SHEET, AND IRRIGATION LEGEND FOR MORE INFORMATION.
10. FILTERRA MEDIA (BY MANUFACTURER)

1 PLANTING AND IRRIGATION AT FILTERRA UNIT
NO SCALE



LEGEND:
1. BUBBLER NOZZLE, SEE IRRIGATION LEGEND.
2. ANTI-DRAIN VALVE
3. MULCH (PROVIDED BY MANUFACTURER)
4. ROOT BALL
5. FLEXIBLE 1/2" RISER ASSEMBLY WITH 1/2" MIPT THREADED ENDS, LENGTH AS REQUIRED
6. 1/2" SCH 40 FIPT X FIPT FEMALE ADAPTER
7. SCH 40 PVC TEE
8. LATERAL LINE
9. FILTERRA UNIT PER CIVIL PLANS

NOTES:
A. SEE DETAIL 1, THIS SHEET, AND IRRIGATION PLANS FOR IRRIGATION LAYOUT
B. SEE CIVIL PLANS FOR MORE INFORMATION ABOUT FILTERRA UNIT
C. INSTALL BUBBLER EMITTER ADJACENT TO ROOT BALL

2 POINT SOURCE EMITTER WITH ON GRADE LATERAL LINE
NO SCALE

PUBLIC CONTRACT

LANDSCAPE PLANTING AND IRRIGATION PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET176 OF 187 SHEETS

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

PROJECT NO. ____
V.T.M. ____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

41370-176-D

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www.qualityinfrastructure.com

SCHMIDT DESIGN GROUP

LICENSED LANDSCAPE ARCHITECT JEFF A. JUSTUS No. 4028 — SIGNATURE 05-31-19 RENEWAL DATE 05-06-19 DATE — STATE OF CALIFORNIA

		DATE
DESIGNED BY	JM	5/19
DRAWN BY	TS	5/19
CHECKED BY	JM/JJ	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

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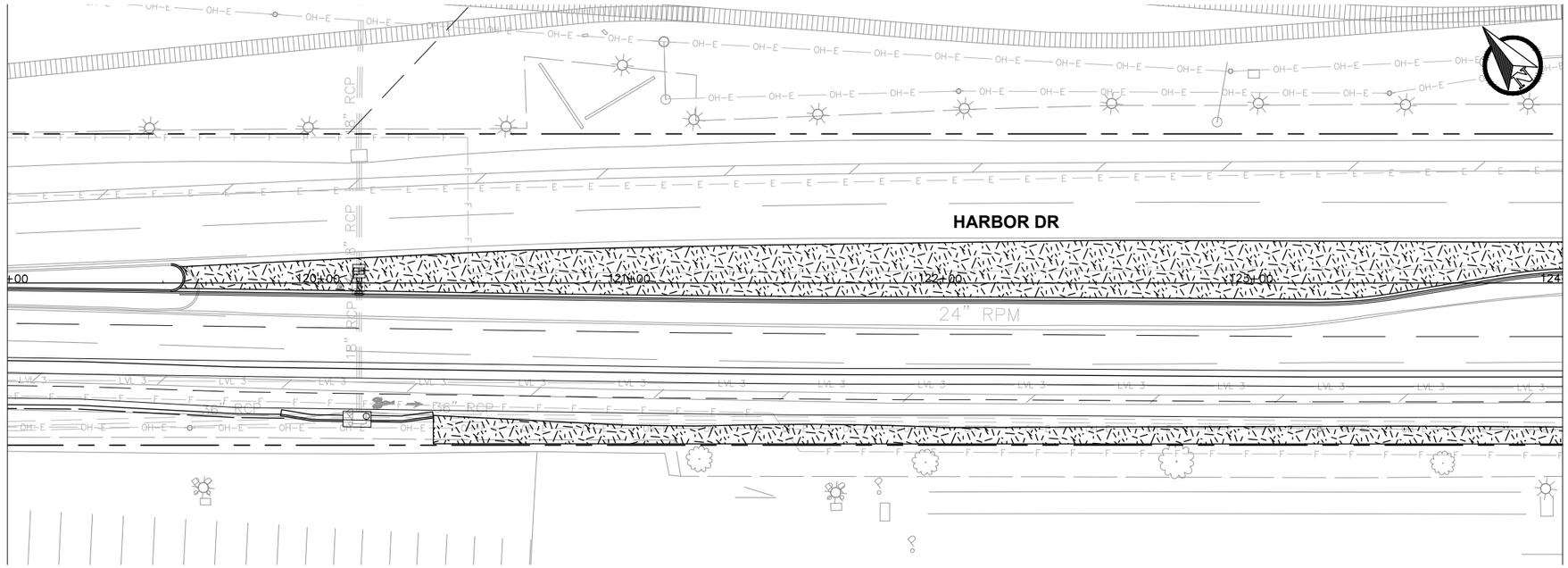

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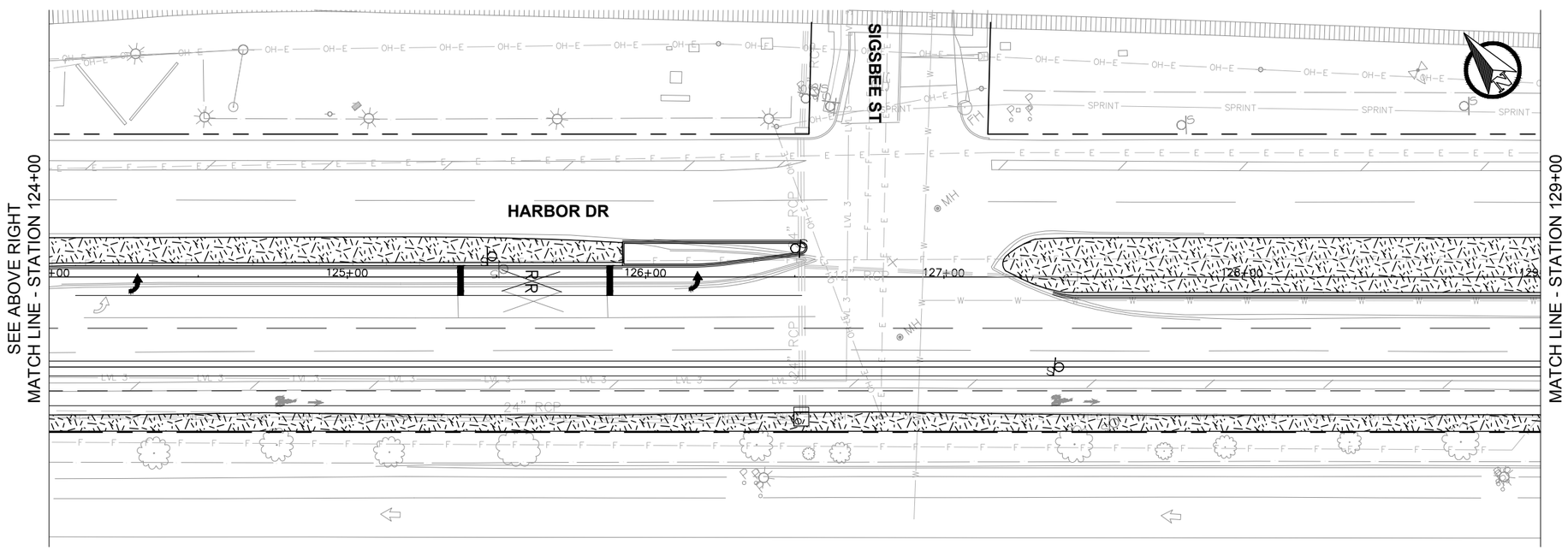

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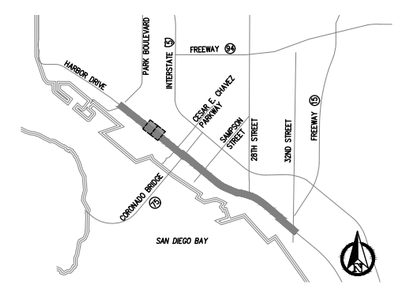

KEYMAP
NTS

20 0 20 40 FEET
1"=20'

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PUBLIC CONTRACT

LANDSCAPE PLANTING AND IRRIGATION PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 177 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
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SHEET NO. 41370-177-D

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LICENSED LANDSCAPE ARCHITECT
JEFF A. JUSTUS No. 4028
SIGNATURE 05-31-19
RENEWAL DATE
05-06-19
DATE
STATE OF CALIFORNIA

DESIGNED BY JM	DATE 5/19
DRAWN BY TS	5/19
CHECKED BY JM/JJ	5/19
SANDAG PRJ MGR E. RODRIGUEZ	5/19

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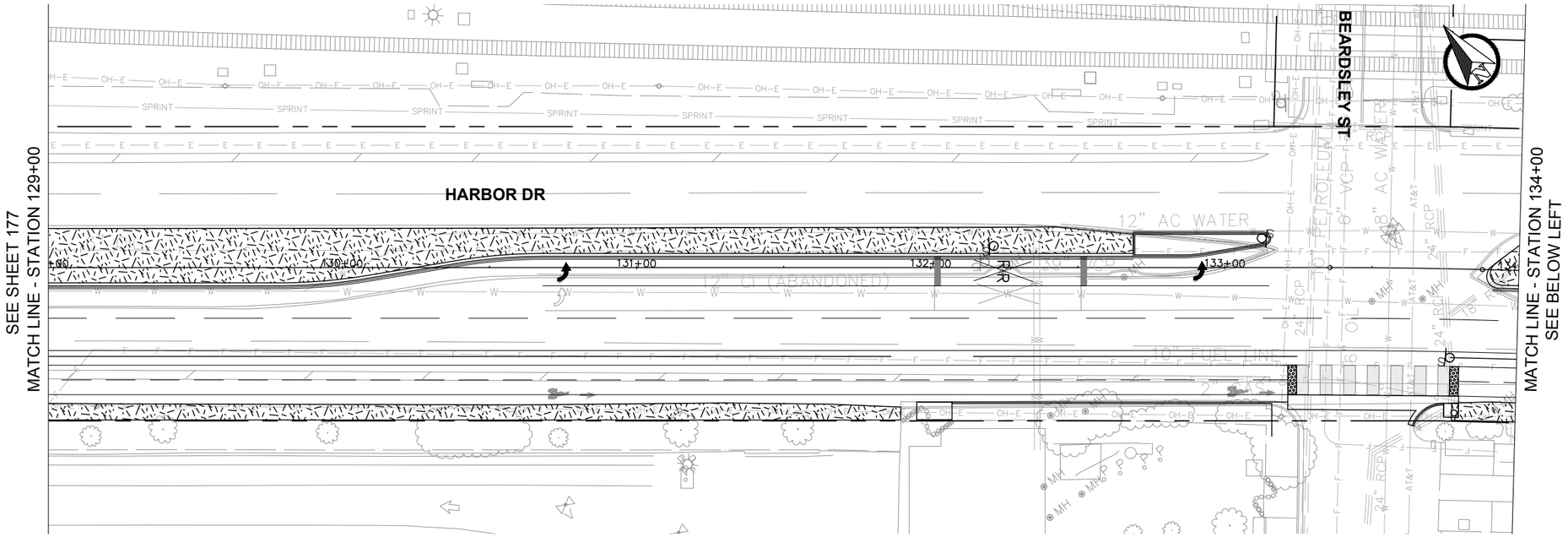

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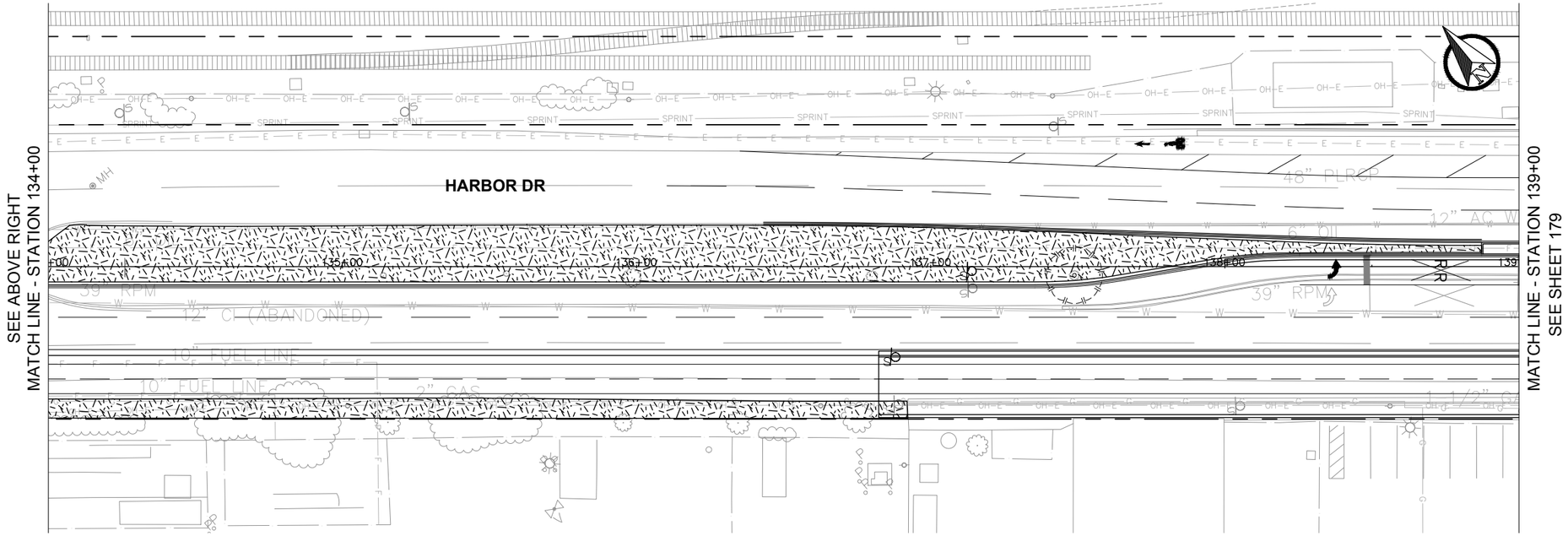

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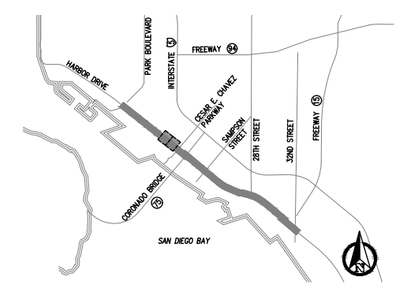

KEYMAP
NTS

20 0 20 40 FEET
1"=20'

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LANDSCAPE PLANTING AND IRRIGATION PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 178 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

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LAMBERT COORDINATES

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41370-178-D

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LICENSED LANDSCAPE ARCHITECT — JEFF A. JUSTUS — No. 4028 — SIGNATURE — 05-31-19 RENEWAL DATE — 05-06-19 DATE — STATE OF CALIFORNIA

		DATE
DESIGNED BY	JM	5/19
DRAWN BY	TS	5/19
CHECKED BY	JM/JJ	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

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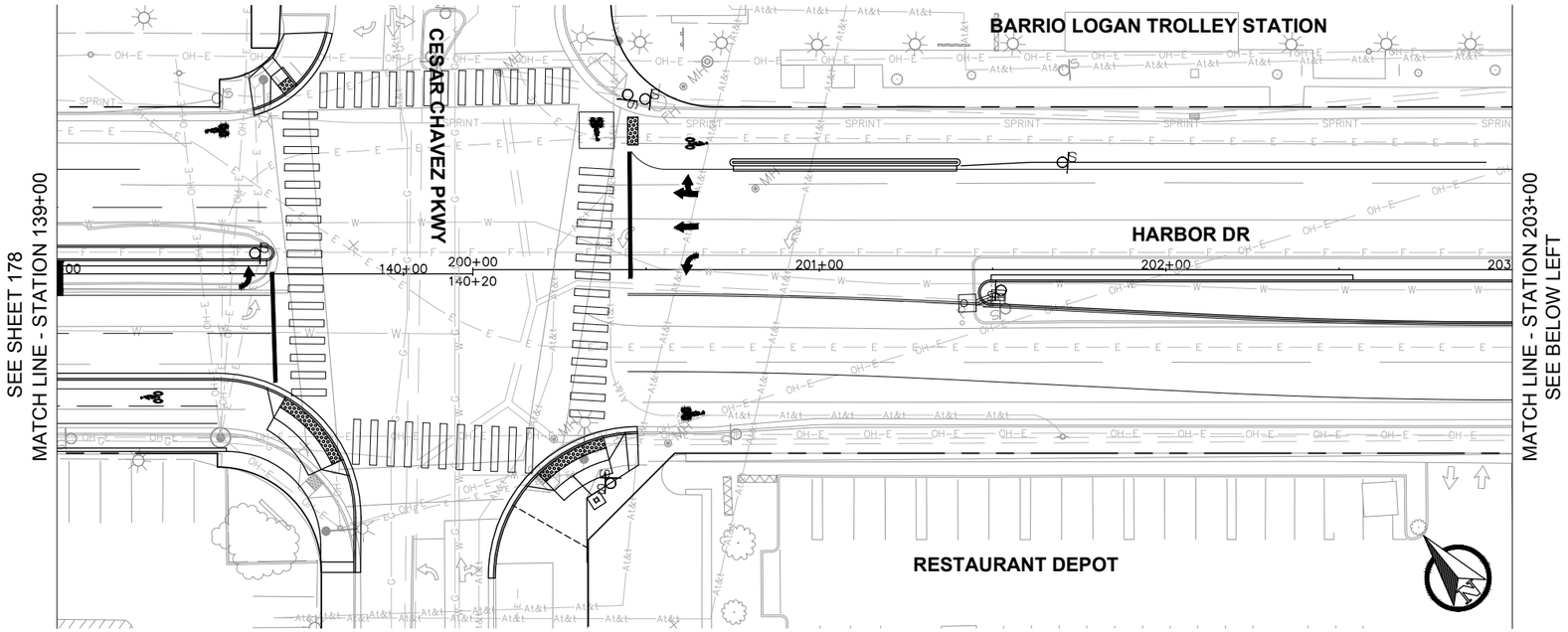

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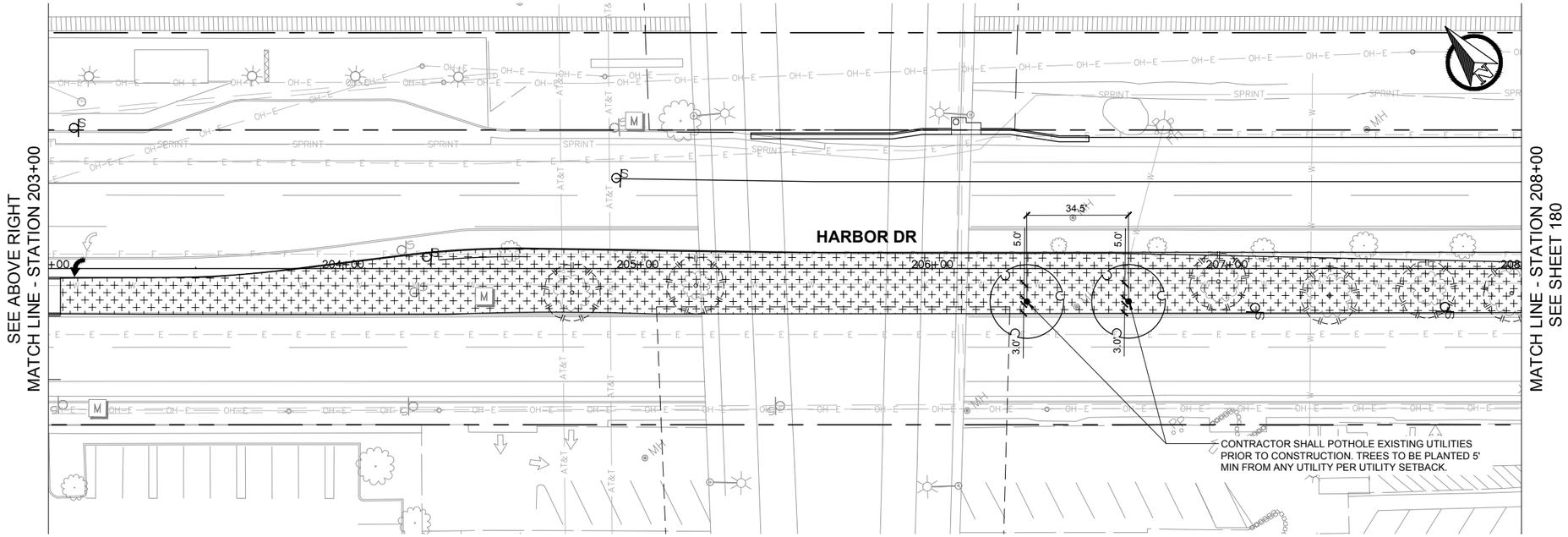

PLAN

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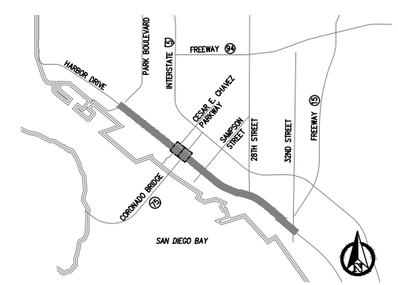
1"=20'



KEYMAP
NTS

PUBLIC CONTRACT

LANDSCAPE PLANTING AND IRRIGATION PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 179 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
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LICENSED LANDSCAPE ARCHITECT
JEFF A. JUSTUS No. 4028
SIGNATURE 05-31-19
RENEWAL DATE 05-06-19
DATE
STATE OF CALIFORNIA

		DATE
DESIGNED BY	JM	5/19
DRAWN BY	TS	5/19
CHECKED BY	JM/JJ	5/19
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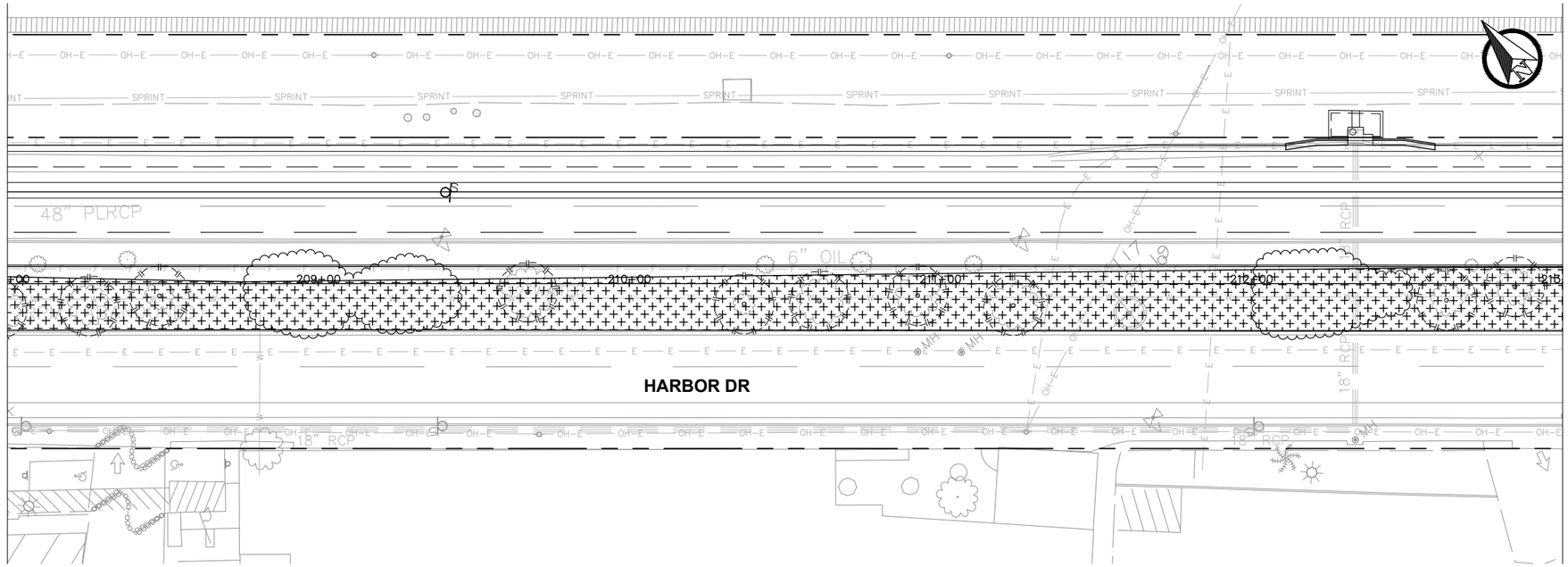
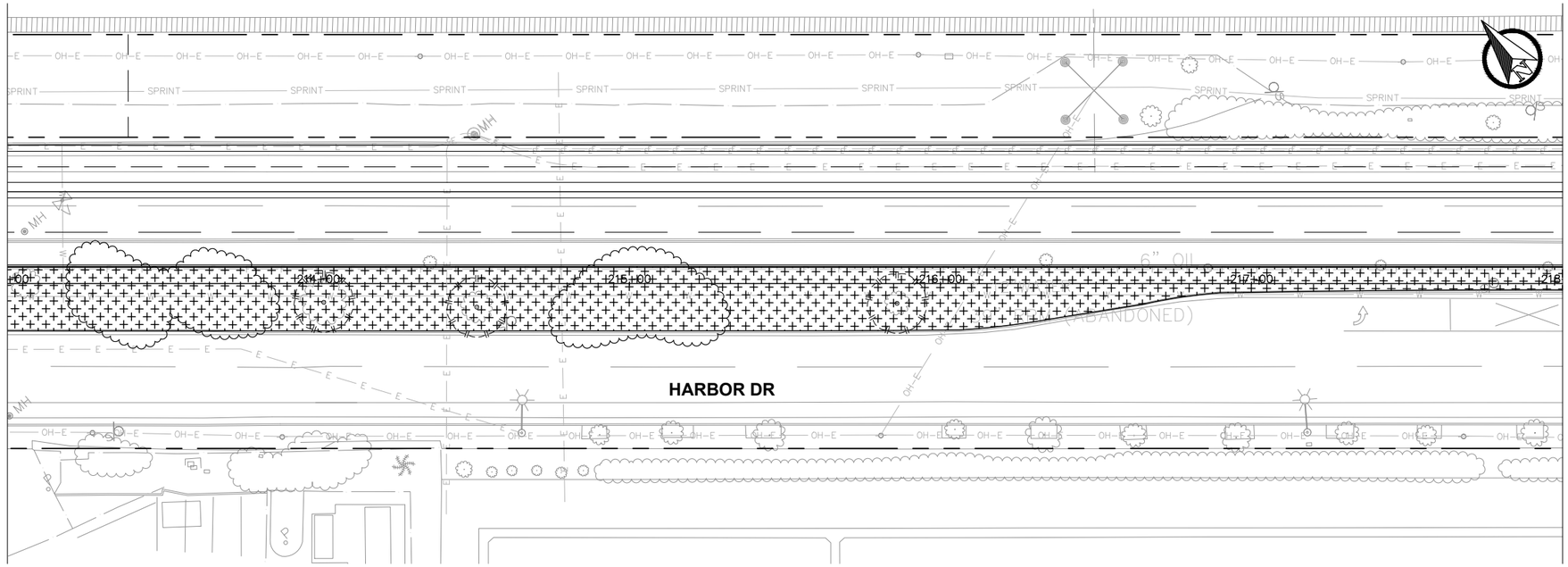
SEE SHEET 179
MATCH LINE - STATION 208+00



MATCH LINE - STATION 213+00
SEE BELOW LEFT

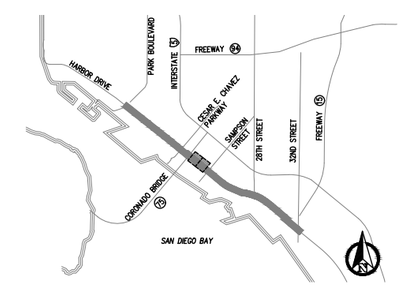
PLAN

SEE ABOVE RIGHT
MATCH LINE - STATION 213+00



MATCH LINE - STATION 218+00
SEE SHEET 181

PLAN



KEYMAP
NTS

20 0 20 40 FEET
1"=20'

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PUBLIC CONTRACT

LANDSCAPE PLANTING AND IRRIGATION PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 180 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
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JEFF A. JUSTUS No. 4028
SIGNATURE 05-31-19 RENEWAL DATE
05-06-19 DATE
STATE OF CALIFORNIA

DESIGNED BY	JM	DATE 5/19
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SANDAG PRJ MGR	E. RODRIGUEZ	5/19

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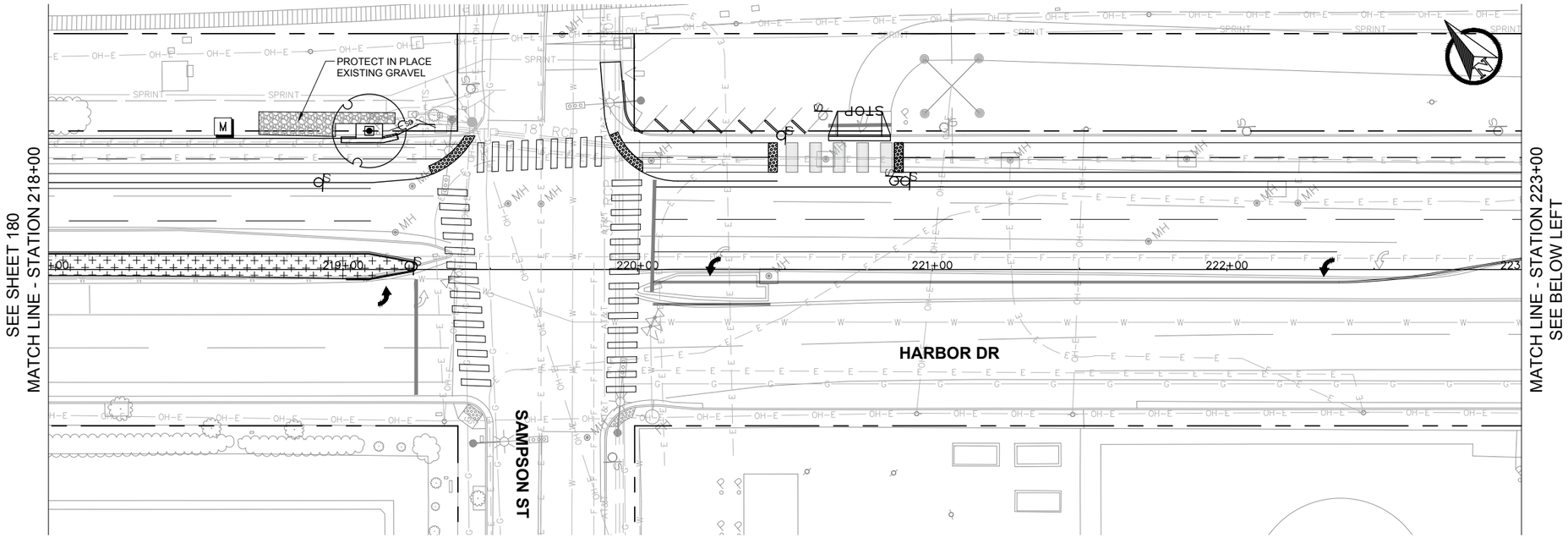
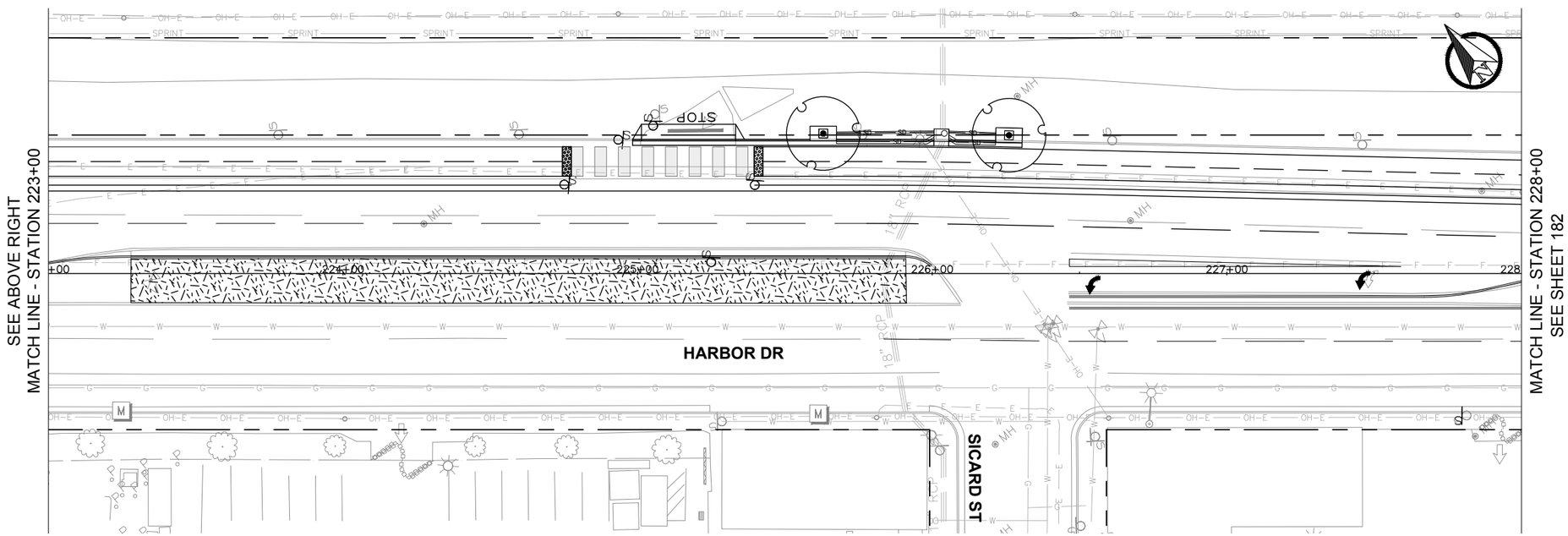


PLAN



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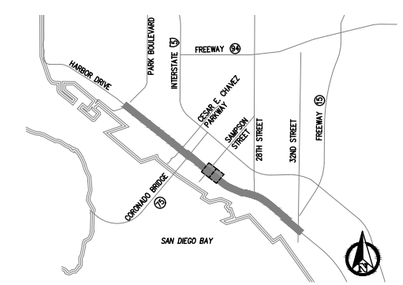

KEYMAP
NTS

20 0 20 40 FEET
1"=20'

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PUBLIC CONTRACT

LANDSCAPE PLANTING AND IRRIGATION PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 181 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

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INSPECTOR ____ DATE COMPLETED ____

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www.qualityinfrastructure.com
SCHMIDT DESIGN GROUP

LICENSED LANDSCAPE ARCHITECT — JEFF A. JUSTUS — NO. 4028 — STATE OF CALIFORNIA
SIGNATURE 05-31-19 RENEWAL DATE
05-06-19 DATE

DESIGNED BY	JM	DATE 5/19
DRAWN BY	TS	5/19
CHECKED BY	JM/JJ	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

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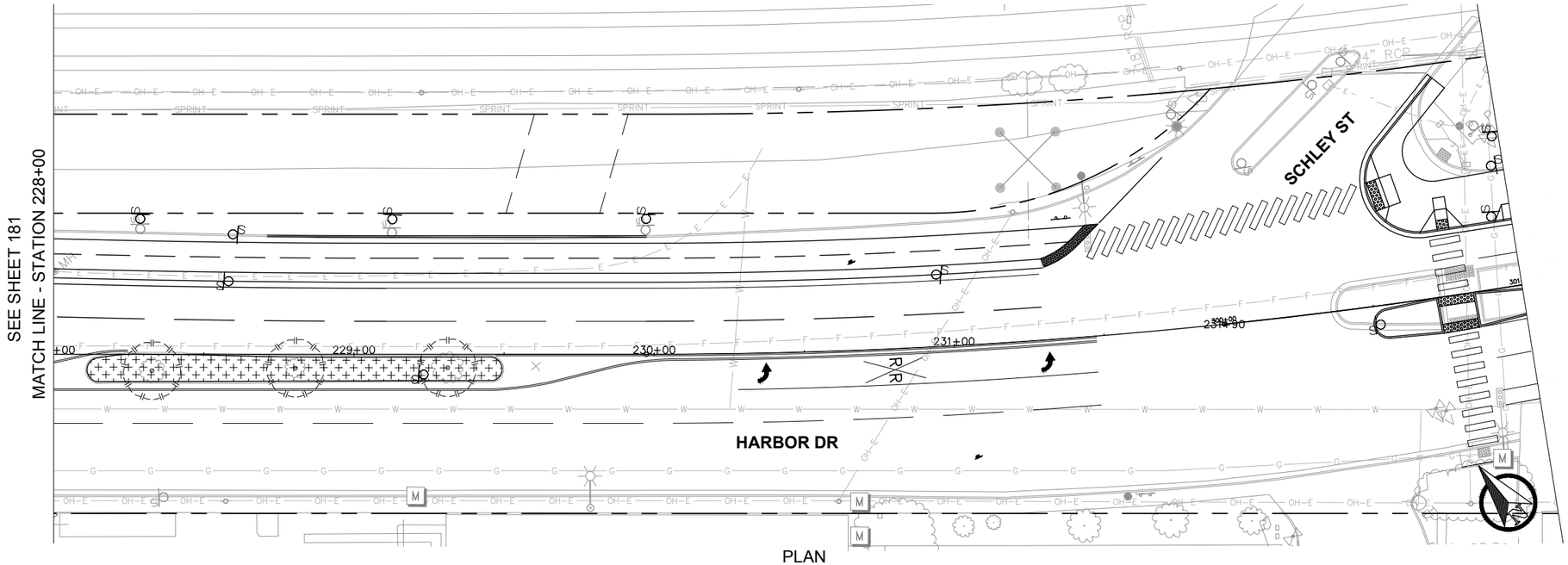

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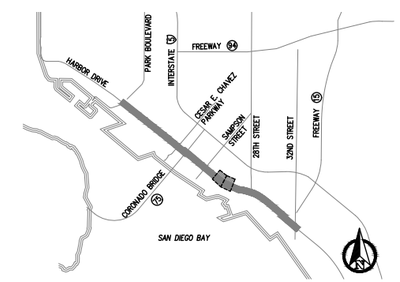

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BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 182 OF 187 SHEETS

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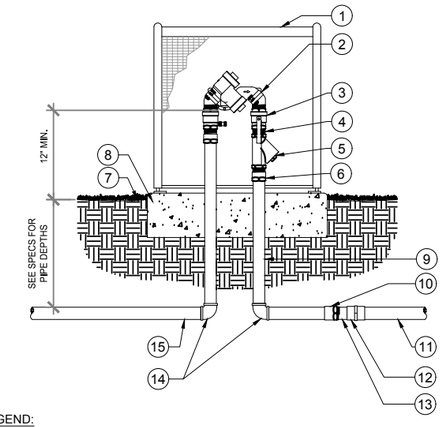
IRRIGATION PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

IRRIGATION NOTES:

1. APPLICABLE STANDARD DRAWINGS AND SPECIFICATIONS:
   - CALTRANS STANDARD SPECIFICATIONS, 2015 EDITION
   - THE CITY OF SAN DIEGO STANDARD DRAWINGS
2. THE IRRIGATION SYSTEM DESIGN FOR CONTROLLER 'A' (LOCATED AT STATION 218+50) IS BASED ON AN APPROXIMATE WATER PRESSURE OF __65__ PSI AT THE EXISTING MAINLINE (BASED ON THE FIELD PRESSURE TEST AT EXISTING Q.C. LOCATED NEAR STATION 229+00 9/25/2018). WATER COMPANY: SAN DIEGO COUNTY WATER AUTHORITY. PHONE NUMBER: (858) 522-6600. CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION AND REPORT ANY DIFFERENCES TO THE OWNER'S REPRESENTATIVE.
3. THE IRRIGATION SYSTEM DESIGN FOR CONTROLLER 'B' (LOCATED AT STATION 226+00) IS BASED ON AN APPROXIMATE WATER PRESSURE OF __65__ PSI AT THE EXISTING MAINLINE (BASED ON THE FIELD PRESSURE TEST AT EXISTING Q.C. IN FRONT OF CVX SAN DIEGO DISTRIBUTION TERMINAL 9/25/2018). WATER COMPANY: SAN DIEGO COUNTY WATER AUTHORITY. PHONE NUMBER: (858) 522-6600. CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION AND REPORT ANY DIFFERENCES TO THE OWNER'S REPRESENTATIVE.
4. THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY FOR CLARITY. LOCATE ALL PIPING, VALVES, BACKFLOW PREVENTERS, AND OTHER IRRIGATION EQUIPMENT WITHIN PLANTING AREAS IN RIGHT OF WAY UNLESS NOTED OR DIRECTED OTHERWISE. LOCATE ALL VALVES AND VALVE BOXES SIX INCHES FROM EDGE OF PAVING OR CURB UNLESS OTHERWISE NOTED.
5. EXISTING UTILITIES AND FIELD CONDITIONS: PRIOR TO EXCAVATION, LOCATE ALL CABLES, CONDUITS, AND UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR AN UNDERGROUND UTILITY SERVICE TO LOCATE AND MARK UTILITIES. CONTRACTOR WILL TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB SUCH UNDERGROUND IMPROVEMENTS. NOTIFY THE OWNER IMMEDIATELY IF A CONFLICT EXISTS BETWEEN SUCH OBSTACLES AND THE PROPOSED WORK. PROCEED IN SAME MANNER IF ROCK LAYERS OR ANY OTHER CONDITIONS ENCOUNTERED UNDERGROUND MAKE CHANGES ADVISABLE.
6. ALL PIPING AND WIRING UNDER ROADWAYS AND PAVING AND THROUGH WALLS SHALL BE SLEEVED.
7. USE TWO WRAPS OF THREE-QUARTER INCH (3/4") TEFLON TAPE FOR ALL THREADED VALVE CONNECTIONS.
8. PROVIDE PULL BOXES FOR CONTROL WIRING LOCATED UNDER PAVING AT ALL CHANGES IN DIRECTION GREATER THAN FORTY-FIVE (45) DEGREES AND WHERE WIRE RUNS EXCEED TWO HUNDRED FEET (200') IN LENGTH. WIRE SPLICES SHALL BE MADE IN PULL BOXES OR CONTROL VALVE BOXES ONLY.
9. AUTOMATIC IRRIGATION CONTROLLER IS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTION OF FIELD WIRES TO APPROPRIATE TERMINAL STRIPS.
10. CONTRACTOR TO ADJUST ALL SPRINKLERS TO AVOID OVERSPRAY ONTO WALLS, WALKS, STREETS, UTILITY BOXES,LIGHT POLES,FIRE HYDRANTS,FENCES, BUILDINGS AND OTHER IMPROVEMENTS.
11. VERIFY ALL SPRINKLER HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
12. WHERE TRENCHING NEAR TREE ROOTS, TAKE EXTREME CAUTION. NOTIFY OWNER AND LANDSCAPE ARCHITECT WHEN TRENCHING OPERATIONS HAVE SEVERED TREE ROOTS GREATER THAN THREE INCHES IN DIAMETER.
13. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO THE FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNED ON THE PLANS.
14. CONTRACTOR SHALL INSTALL IN-LINE ANTI-DRAIN VALVES AS WARRANTED BY SITE CONDITIONS TO ALLEVIATE LOW HEAD DRAINAGE AS DIRECTED BY THE RESIDENT ENGINEER.
15. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS NECESSARY.
16. THE CONTRACTOR SHALL KEEP AN UP-TO-DATE COMPLETE "AS-BUILT" RECORD SET OF PRINTS WHICH SHALL BE UPDATED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DESIGN.
17. ALL CONTROL VALVES SHALL BE MANIFOLDED AND GROUPED IN GENERAL AREAS SHOWN ON PLAN. VALVES SHALL BE LOCATED IN PLANTING AREAS AND IMMEDIATELY ADJACENT TO WALKS, CURBS, OR PAVING AREAS AND SET AT RIGHT ANGLES TO EDGES. INSTALL VALVE BOXES 6" FROM EDGES OF HARDSCAPE AREAS.
18. IRRIGATION LINES SHALL BE INSTALLED IN PLANTING AREAS WHEREVER FEASIBLE AND WITHIN 12" OF PLANTING AREA EDGES UNLESS SHOWN OTHERWISE.
19. CONTRACTOR SHALL REMOVE AND DISCARD DAILY, ALL PIPING DISTURBED DURING TRENCHING OPERATION.
20. CONTRACTOR SHALL REVIEW IRRIGATION SPECIFICATIONS PRIOR TO BEGINNING WORK. REFER TO TECHNICAL SPECIFICATIONS AND CONSTRUCTION DETAILS FOR INSTALLATION PROCEDURES.
21. CONTRACTOR SHALL PLACE IRRIGATION EQUIPMENT IN CONCRETE BOXES WITH THE FOLLOWING LABELS. LETTERING ON VALVE BOX LIDS SHALL BE PLACED ON THE SAME LOCATION ON EACH VALVE BOX LID, AND ALL LABELING SHALL FACE THE SAME DIRECTION.
    CONTROL VALVE BOXES SHALL BE LABELED WITH CONTROLLER DESIGNATION CONSECUTIVELY A-1, A-2, A-3, ETC.
    QUICK COUPLER VALVE BOXES SHALL BE LABELED "QVC"
    STUB OUT BOXES SHALL BE LABELED "SO"
    EXTRA CONTROL WIRE BOXES SHALL BE LABELED "LVW"
22. ALL BOLTS FOR LOCKING VALVE BOX LIDS SHALL BE STAINLESS STEEL.
23. CONTRACTOR WILL BE RESPONSIBLE FOR ANY CITY OF SAN DIEGO BUILDING PERMITS OR ENCROACHMENT EASEMENT PERMITS NECESSARY FOR WORK.
24. CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT PRIOR TO ANY TRENCHING OPERATIONS. THE RESIDENT ENGINEER AND CONTRACTOR TO DISCUSS TRENCHING OPERATIONS AROUND TREES AND PLANT MATERIAL TRIMMING REQUIREMENTS.
25. CONTRACTOR SHALL FLUSH ALL MAINLINES PRIOR TO INSTALLATION OF VALVES AND ALL LATERAL LINES PRIOR TO INSTALLATION OF HEADS.
26. PROVIDE 1 SPARE CONTROL WIRE FROM CONTROLLER TO EACH VALVE MANIFOLD. LOOP WIRE INTO EACH VALVE BOX AND TERMINATE IN VALVE BOX FURTHEST FROM CONTROLLER. PROVIDE MINIMUM 18" WIRE LOOP AT EACH VALVE BOX. COLORS TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PLACEMENT.
27. PROVIDE 1 SPARE COMMON WIRE FROM CONTROLLER LOOPED THROUGH ALL VALVE BOXES ON THE SITE. PROVIDE MINIMUM 18" WIRE LOOP AT EACH VALVE BOX. COLOR TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PLACEMENT.
28. CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT SHOWN ON THE PLANS UNLESS OTHERWISE INDICATED.
29. EXISTING IRRIGATION PROTECTION - EXISTING IRRIGATION TO REMAIN ON SITE WITHIN THE AREA OF WORK SHALL BE PROTECTED IN PLACE UNLESS SPECIFICALLY NOTED ON THE DEMOLITION PLAN. PROVIDE THE FOLLOWING IRRIGATION PROTECTION MEASURES:

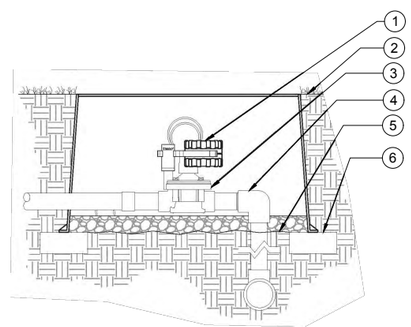
A. PROVIDE TEMPORARY IRRIGATION SYSTEM OR HAND-WATER EXISTING PLANTING AREAS AND TREES TO REMAIN DURING THE CONSTRUCTION AND MAINTENANCE PERIOD.
B. ALL EXISTING IRRIGATION LATERALS, HEADS, AND MAINLINES DISTURBED WITHIN THE CONSTRUCTION LIMIT SHALL BE ADJUSTED TO NEW CONSTRUCTION.
C. PATCH AND REPAIR EXISTING HEADS, LATERALS, MAINLINE, WIRES, ETC. IN ORDER TO PROVIDE 100% COVERAGE.
D. CONTRACTOR TO PROVIDE EXTRA REPLACEMENT HEADS OR PARTS.



LEGEND:

1. STAINLESS STEEL BACKFLOW ENCLOSURE, SMOOTH TOUCH (SEE LEGEND)
2. REDUCED PRESS. BACKFLOW PREVENTION DEVICE (SEE LEGEND FOR MODEL / SIZE)
3. BRASS BALL VALVE AS PART OF BFD ASSEMBLY, SIZE PER BFD (2 REQUIRED)
4. BRASS THREADED NIPPLE, SIZE PER BFD, LENGTH AS REQUIRED (1 REQUIRED)
5. BRONZE WYE STRAINER, SIZE PER BACK-FLOW PREVENTION DEVICE (SEE LEGEND)
6. COPPER MALE ADAPTER, SWEAT X MIPT, SIZE PER BFD (2 REQUIRED)
7. FINISHED GRADE
8. CONCRETE SLAB, MIN. 6" THICK, DIMENSIONS PER THE BFD ENCLOSURE MANUFACTURER
9. COPPER RISERS, SIZE PER BFD, LENGTH AS REQUIRED (2 REQUIRED)
10. COPPER FEMALE ADAPTER, SWEAT X FIPT, SIZE PER BFD (2 REQUIRED)
11. PVC IRRIGATION MAINLINE TO SYSTEM (SEE LEGEND AND PLANS)
12. SCH. 80 PVC COUPLING, SLIP, SIZE PER THE BFD (2 REQUIRED)
13. SCH. 80 PVC T.O.E. NIPPLE, SIZE PER BFD (2 REQUIRED)
14. COPPER 90 DEGREE ELLS, SWEAT X SWEAT (2 REQUIRED)
15. COPPER MAINLINE PIPING FROM WATER SOURCE (SEE LEGEND)

1 3/4" BACKFLOW PREVENTER
NO SCALE



LEGEND:

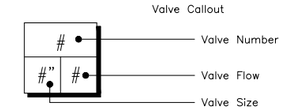
1. IRRIGATION CONTROLLER PER PLAN
2. FINISHED GRADE
3. VALVE PER PLAN
4. PVC MAINLINE
5. FILTER FABRIC
6. BRICK

2 CONTROLLER ON VALVE
NO SCALE

IRRIGATION LEGEND:

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS	DETAIL
	PRESSURE COMPENSATING BUBBLER FOR TREES TWO (2) BUBBLERS PER TREE. TWO RAINBIRD FLOOD BUBBLERS, POINT SOURCE EMITTER ON GRADE LATTERAL LINE, FACTORY INSTALLED ANTI-DRAIN CHECK VALVE.	30	0.50	3'	1 & 2 / 173
	BUCKNER / SUPERIOR 3200 3/4" LOW FLOW BRASS REMOTE CONTROL VALVE, WITH PRESSURE REGULATOR.				SDI-114 SDI-126
	RAIN BIRD 44-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.				SDI-105
	NIBCO T-235Y CLASS 150 BRONZE GLOBE SHUT OFF VALVE WITH CROSS HANDLE AND WEATHERMATIC. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. 906 LOCKING CAP ACCESS SLEEVE.				SDI-106
BF	FEBCO 825YA NEW 3/4" STAINLESS STEEL BACKFLOW PREVENTER IN VANDAL RESISTANT SMOOTH TOUCH ENCLOSURE, SIZE TO FIT.				1 / 180
M	NEW 3/4" WATER METER				PER CIVIL
M	EXISTING WATER METER				
A	RAIN BIRD TBOS CONTROLLER 1 STATION BATTERY OPERATED CONTROLLER WITH FIELD TRANSMITTER, COMMERCIAL GRADE. LOCATED IN VALVE BOX.				2 / 180
B	RAIN BIRD TBOS CONTROLLER 1 STATION BATTERY OPERATED CONTROLLER WITH FIELD TRANSMITTER, COMMERCIAL GRADE. LOCATED IN VALVE BOX.				2 / 180
PB	PULL BOX. SAN DIEGO PRECAST CONCRETE LOCKING PULL BOX.				SDI-115
	IRRIGATION LATERAL LINE: LASCO SCHEDULE 40 PVC LATERAL LINE, MIN. 3/4" UNLESS INDICATED OTHERWISE. INSTALL 15" BELLOW GRADE, TYP.; (INSTALL 18" BELOW GRADE WHERE 12" POP-UPS ARE USED).				SDI-110
	IRRIGATION MAINLINE: PVC IRRIGATION MAINLINE - SCH. 40 PIPE FOR SIZES UP TO 1-1/2"; CLASS 315 PIPE FOR SIZES 2"-4" WITH SCH.80 FITTINGS OR BELL SOLVENT WELD. MAINLINE SIZE INDICATED PER PLAN. INSTALL MAINLINE 21" BELOW GRADE (36" UNDER PAVEMENT).				SDI-110
	PIPE SLEEVE: LASCO SCHEDULE 40 PVC SCH. 40 SLEEVE, 2 X DIAMETER OF PIPE OR WIRE BUNDLE TO BE SLEEVED, MINIMUM 2" SIZE. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.				SDI-110
	EXISTING IRRIGATION TO BE PROTECTED IN PLACE. PATCH AND REPAIR AS NEEDED. SEE EXISTING IRRIGATION NOTES.				-

Valve Callout



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BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
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SHEET 183 OF 187 SHEETS

PROJECT NO.
V.T.M.

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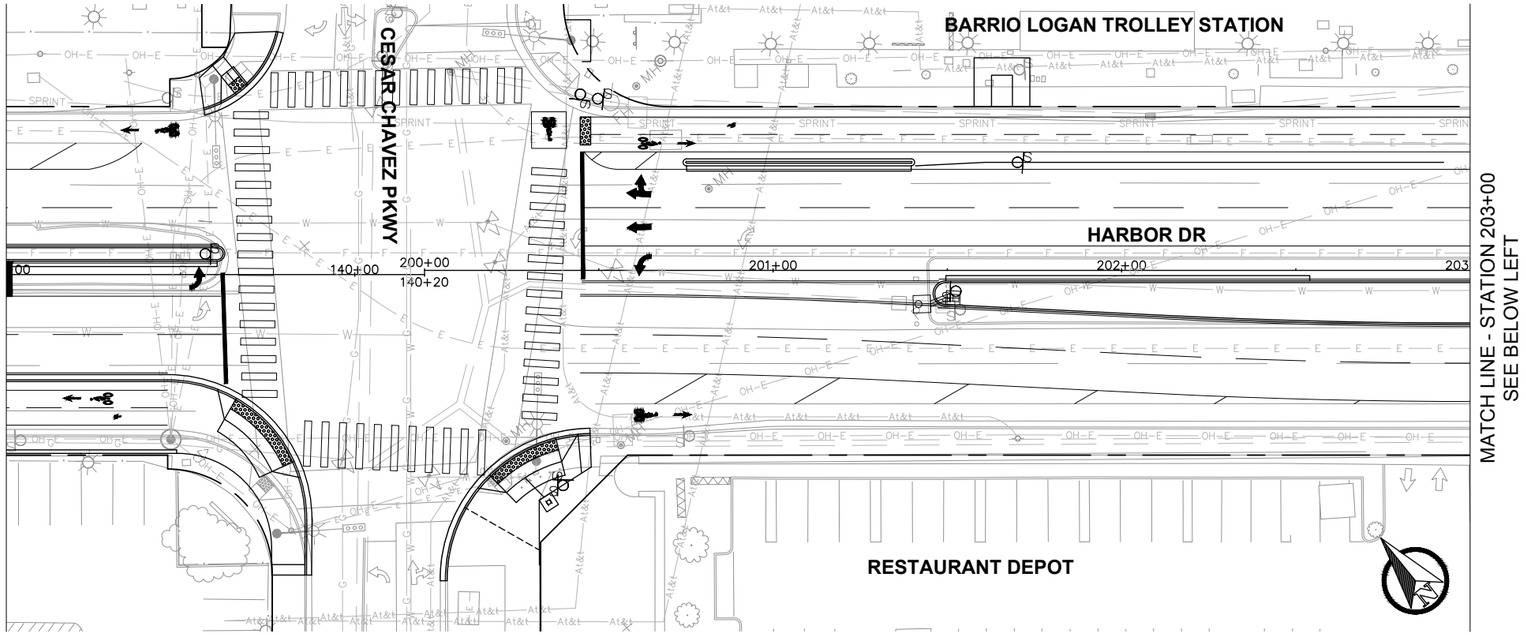
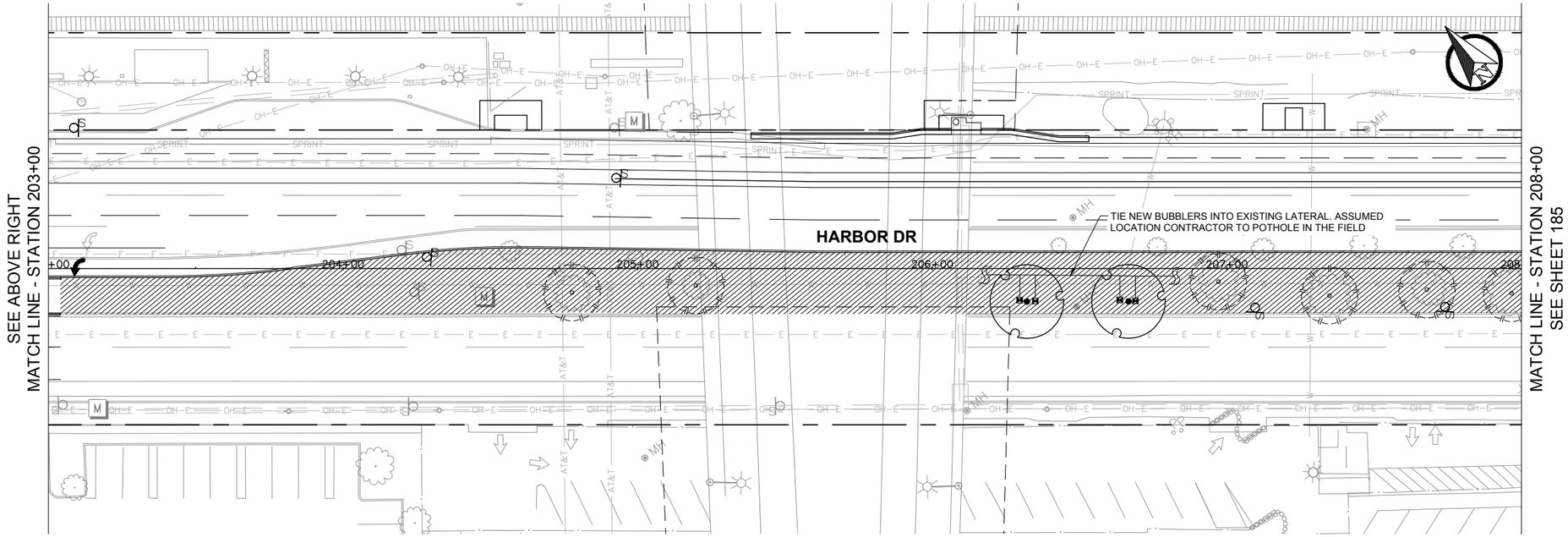


PLAN



PLAN

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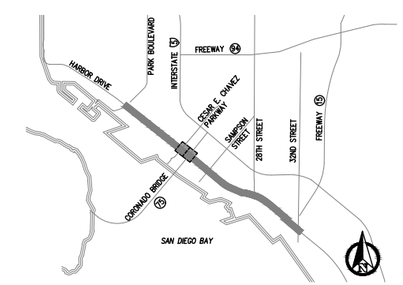
1"=20'



KEYMAP
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BAYSHORE BIKEWAY

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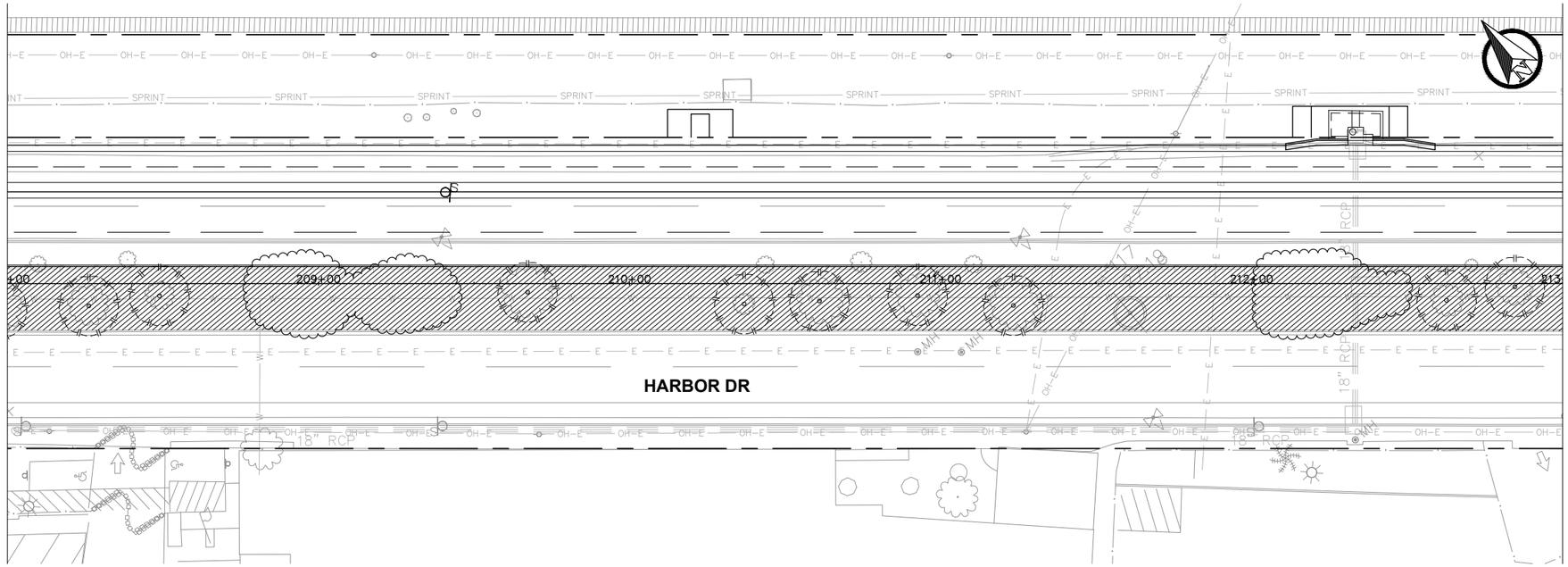
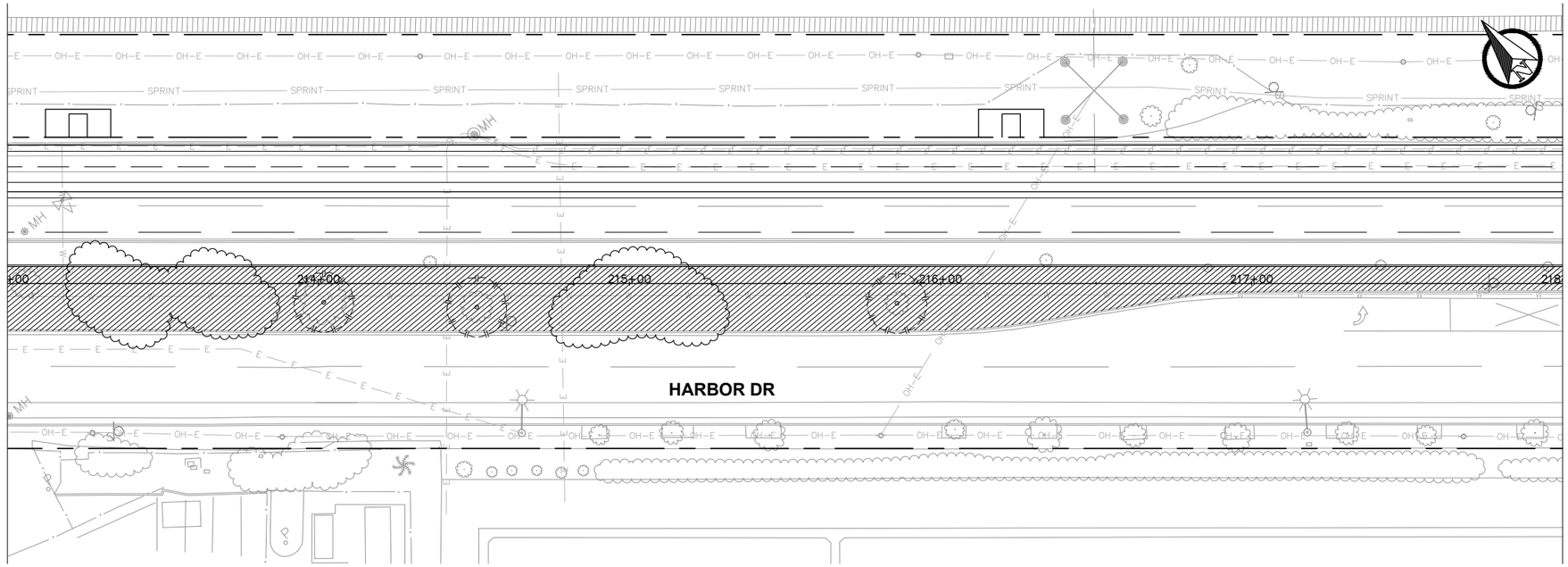
SEE SHEET 184
MATCH LINE - STATION 208+00



MATCH LINE - STATION 213+00
SEE BELOW LEFT

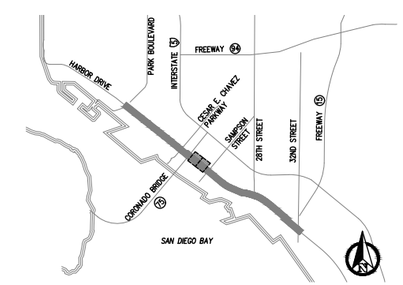
PLAN

SEE ABOVE RIGHT
MATCH LINE - STATION 213+00



MATCH LINE - STATION 218+00
SEE SHEET 186

PLAN



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SIGNATURE 05-31-19 RENEWAL DATE
05-06-19 DATE
STATE OF CALIFORNIA

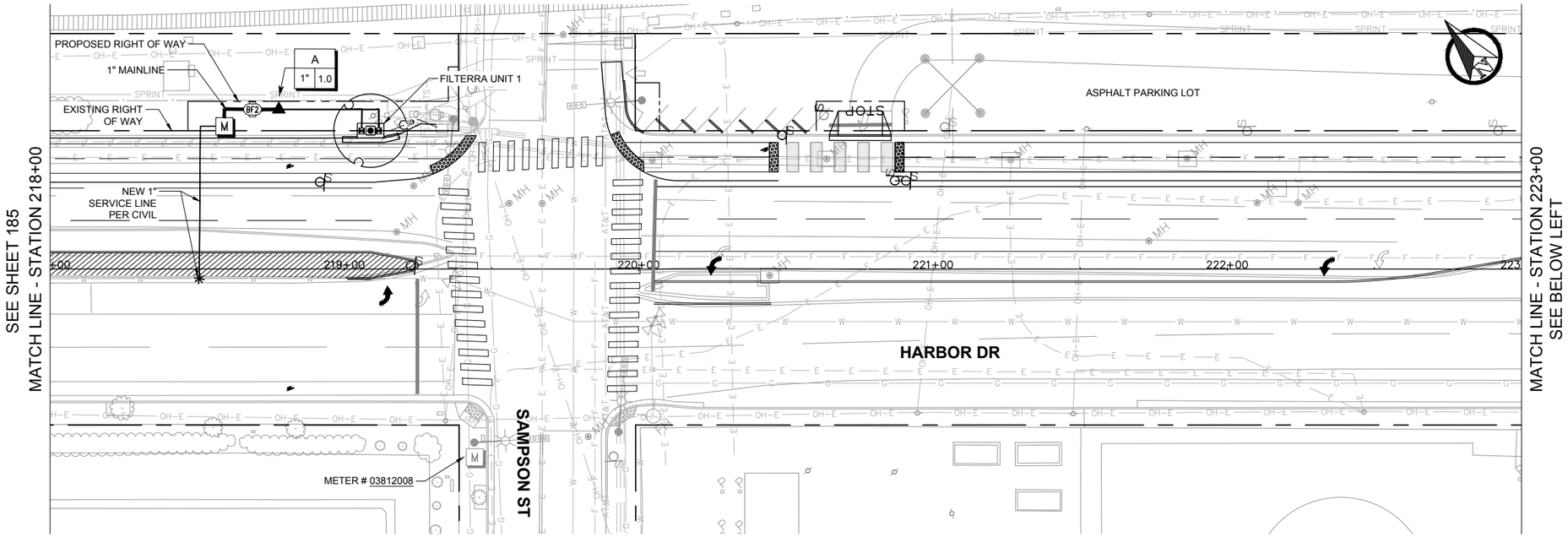
DESIGNED BY JM	DATE 5/19
DRAWN BY TS	5/19
CHECKED BY JM/JJ	5/19
SANDAG PRJ MGR E. RODRIGUEZ	5/19

SANDAG

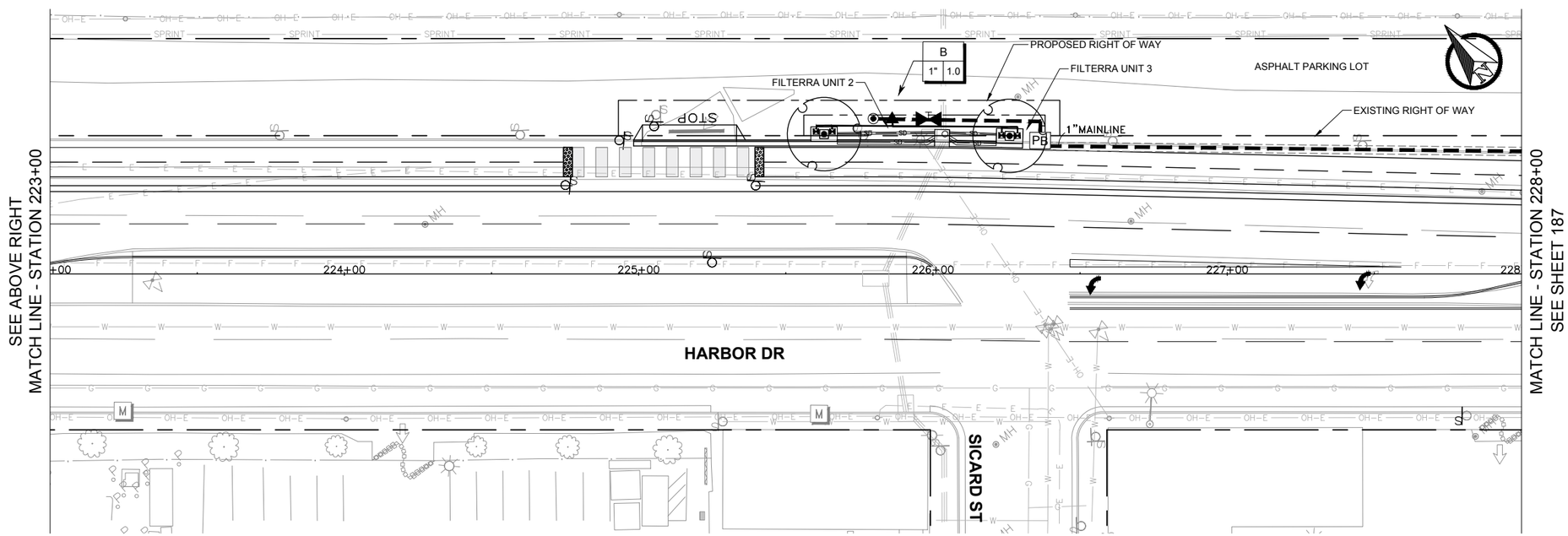
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 5:43:19 PM



PLAN



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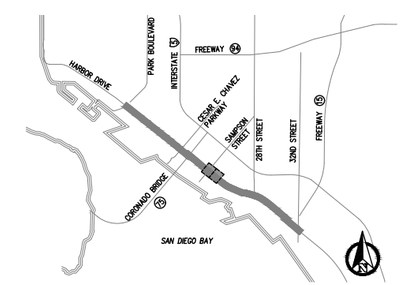


KEYMAP
NTS

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

LANDSCAPE PLANTING AND IRRIGATION PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 186 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR_____ DATE STARTED_____
INSPECTOR_____ DATE COMPLETED_____

41370-186-D

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com
SCHMIDT DESIGN GROUP

LICENSED LANDSCAPE ARCHITECT JEFF A. JUSTUS No. 4028 STATE OF CALIFORNIA
SIGNATURE 05-31-19 RENEWAL DATE
05-06-19 DATE

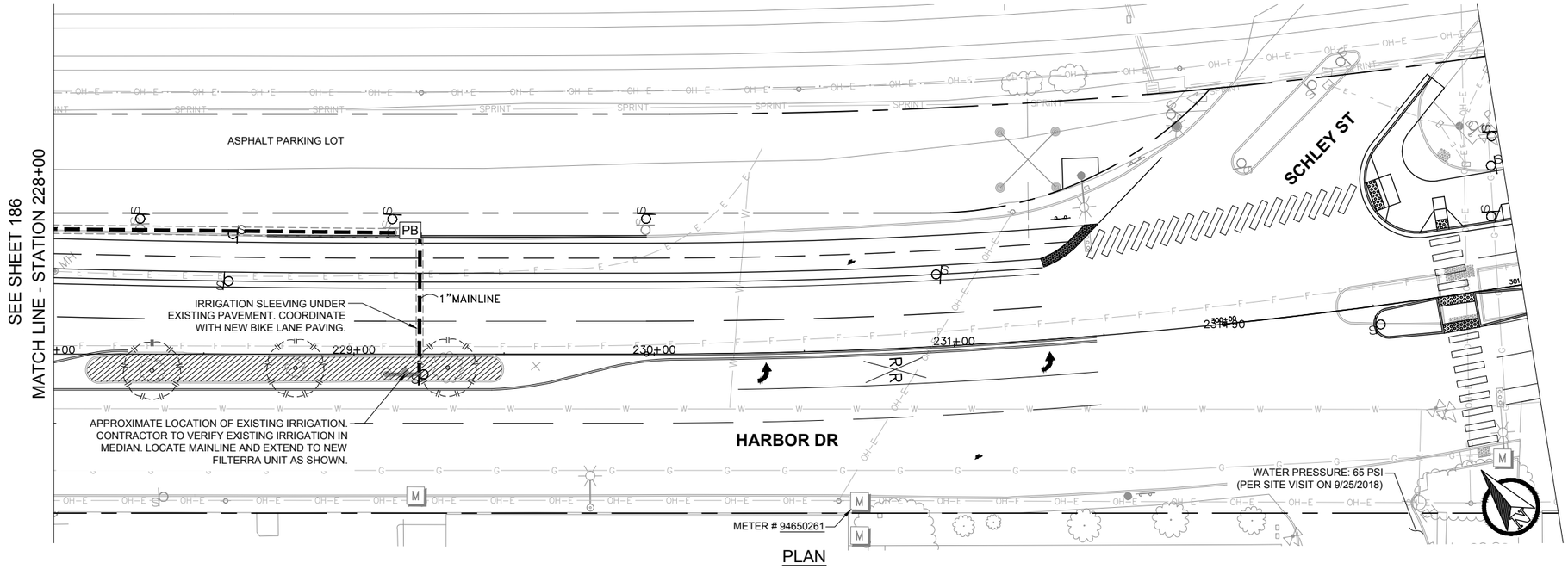
DESIGNED BY	JM	5/19
DRAWN BY	TS	5/19
CHECKED BY	JM/JJ	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

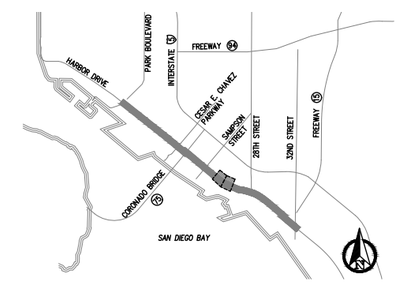
SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 5:43:29 PM



PLAN



KEYMAP
NTS

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

LANDSCAPE PLANTING AND IRRIGATION PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 187 OF 187 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370-187-D

0 1/2 1
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LICENSED LANDSCAPE ARCHITECT
JEFF J. JUSTUS No. 4028
SIGNATURE
05-31-19
RENEWAL DATE
05-06-19
DATE
STATE OF CALIFORNIA

DESIGNED BY	JM	5/19
DRAWN BY	TS	5/19
CHECKED BY	JM/JJ	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

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NOT FOR CONSTRUCTION – MAY 6, 2019

TRAFFIC CONTROL PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

TRAFFIC CONTROL NOTES

1. VALIDATION: THE TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES AND WORK HOURS ARE APPROVED. THE CONTRACTOR SHALL SUBMIT TWO (2) REDUCED COPIES OF TRAFFIC CONTROL PLANS (11"X17") TO THE TRAFFIC CONTROL PERMIT COUNTER, 3RD FLOOR DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM OF FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

2. CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858) 495-4742 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY CONSTRUCTION WORK AFFECTING TRAFFIC SIGNALS.

3. STANDARDS: THE TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF EACH OF THE FOLLOWING MANUALS:

DESCRIPTION	EDITION	DOCUMENT NO.
STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREENBOOK")	2015	PWP1070116-01
CITY OF SAN DIEGO STANDARD DRAWINGS	2016	PWP1070116-03
CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)	2014	PWP1092816-07
CALTRANS STANDARD PLANS	2015	–

4. NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL AFFECTING THE AGENCIES LISTED BELOW:

FIRE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(858) 573-1300
POLICE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(858) 495-7800
ENVIRONMENTAL SERVICES	(REFUSE COLLECTION)	(858) 492-5060
STREET DIVISION	(TRAFFIC SIGNALS)	(619) 527-7500
METROPOLITAN TRANSIT SYSTEM (MTS)	(BUS STOPS)	(619) 238-0100 EXT. 6451
METROPOLITAN TRANSIT SYSTEM (MTS)	(TAXI ZONES)	(619) 235-2644
METROPOLITAN TRANSIT SYSTEM (MTS)	(TROLLEY LINES)	(619) 595-4930
UNDERGROUND SERVICE ALERT	(ANY EXCAVATION)	(800) 422-4133
US NAVY	(32ND ST NAVAL STATION)	(619) 556-1319
SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY		(619) 400-2880

THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF STREETS.

THE CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGEMENT & FIELD SERVICES DIVISION AT (858) 627-3200 AND ARRANGE FOR INSPECTION A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK INVOLVING NIGHTTIME OR WEEKEND HOURS.

5. POSTING PARKING RESTRICTIONS: THE CONTRACTOR SHALL POST TOW-AWAY/NO PARKING SIGNS TWENTY-FOUR (24) HOURS IN ADVANCE OF PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES AND TIMES OF RESTRICTIONS. PARKING METERS SHALL BE BAGGED WHERE APPLICABLE.

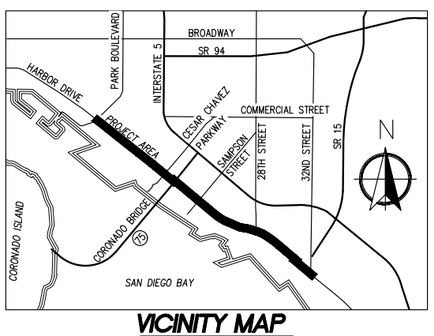
6. EXCAVATIONS: EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS, ALL TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORKDAY. AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCH PLATES DURING NON-WORKING HOURS TO ENSURE THAT THEY DO NOT BECOME DISLODGED. UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES, BIKE LANES, AND PEDESTRIAN WALKWAYS IN THE RIGHT-OF-WAY EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS.

7. COVERED PEDESTRIAN WALKWAY: THE CONTRACTOR SHALL CONTACT CITY RESIDENT ENGINEER AT (619) 627-3200 FOR INSPECTION OF ANY COVERED PEDESTRIAN WALKWAY DURING CONSTRUCTION OF SUCH WALKWAY.

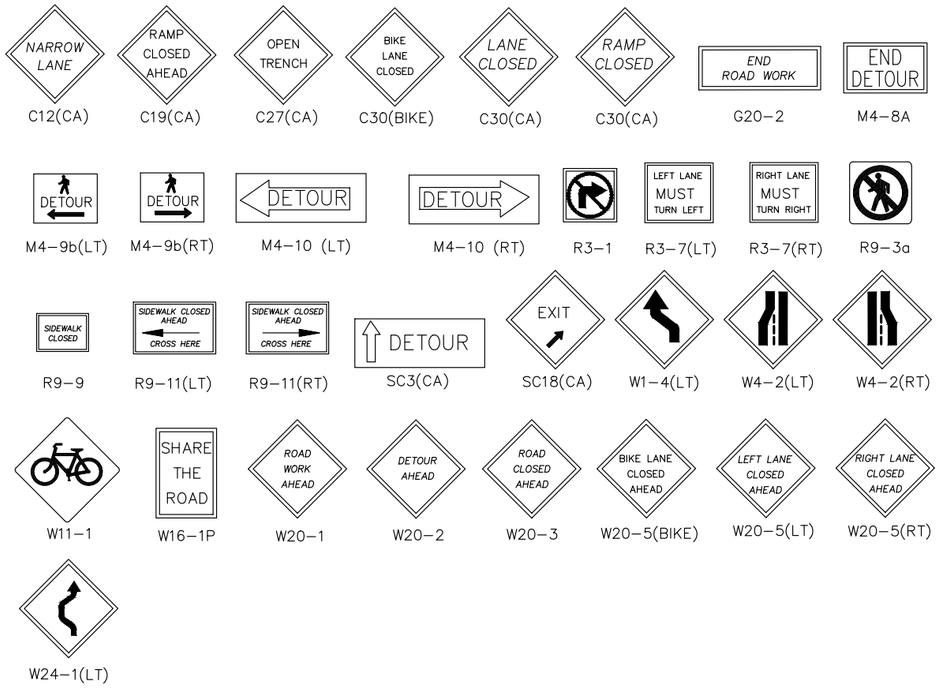
8. RESTORATION OF ROADWAY: THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING IMPROVEMENTS WITHIN THE RIGHT-OF-WAY NOT DESIGNATED FOR PERMANENT REMOVAL (TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) WHICH ARE DAMAGED OR REMOVED AS A RESULT OF OPERATIONS. REPAIRS AND REPLACEMENTS SHALL BE AT LEAST EQUAL TO EXISTING IMPROVEMENT.

9. PROVISION OF TEMPORARY TRAFFIC SIGNAL DETECTION: THE CONTRACTOR SHALL INSTALL CITY APPROVED TEMPORARY VIDEO OR RADAR DETECTION WHEN EXISTING TRAFFIC SIGNAL DETECTION SYSTEMS ARE DAMAGED, DISABLED, OR BECOME INEFFECTIVE DUE TO CONSTRUCTION ACTIVITIES FOR A PERIOD OF FIVE (5) OR MORE DAYS, SATISFACTORY TO THE CITY ENGINEER. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY TRAFFIC SIGNAL DETECTION EQUIPMENT AND RESTORE/INSTALL A CITY APPROVED PERMANENT VEHICLE DETECTION SYSTEM UPON COMPLETION OF CONSTRUCTION, SATISFACTORY TO THE CITY ENGINEER.

10. CHANGE IN WORK: THE CITY ENGINEER RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND TO MAKE ANY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL BE DOCUMENTED AND SUPERSEDE THESE PLANS.



VICINITY MAP
NO SCALE



NOTE: ALL SIGNS ARE STANDARD SIZE

TABLE 1
RECOMMENDED SIGN SPACING FOR ADVANCE WARNING SIGN SERIES

APPROACH SPEED (MPH)	MINIMUM DISTANCE IN FEET BETWEEN SIGNS AND FROM LAST SIGN TO TAPER	MAXIMUM DEVICE SPACING IN FEET	MINIMUM TAPER LENGTHS FOR LANE WIDTHS* 10 FT	11 FT	12 FT
25	150-200	25	105	115	125
30	200-300	30	150	165	180
35	250-400	35	205	225	245
40	350-500	40	265	295	320
45	500-750	45	450	495	540
50	500-1000	50	500	550	600
55+	500-1500	50	550	605	660

* $L=WS^2/60$ FOR SPEED OF 40 MPH OR LESS; $L=WS$ FOR SPEED GREATER THAN 40 MPH. TAPER LENGTHS SHOWN ARE ROUNDED TO NEAREST 5 FEET.

TABLE 2
RECOMMENDED TAPER LENGTH AND DEVICE SPACING FOR CHANNELIZING TAPERS

APPROACH SPEED (MPH)	MERGING TAPER LENGTH (L) *	SPACING OF CONES ALONG TAPER (FEET) ±
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
50+	660	50

* BASED ON 12-FOOT WIDE LANE. THIS COLUMN IS ALSO APPROPRIATE FOR LANE WIDTHS LESS THAN 12 FEET

A SHIFTING TAPER LENGTH SHALL BE AT LEAST 0.5L
A SHOULDER TAPER LENGTH SHALL BE AT LEAST 0.33L

NOTE:

TAPER FORMULA

$L = S \times W$ for speeds greater than 40 mph

$L = \frac{W \times S^2}{60}$ for speeds of 40 mph or less

Where:

L = minimum length of taper

S = numerical value of APPROACH speed prior to work (mph)

W = width of offset (feet)

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
S	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION
	TEMPORARY AC PAVING (6" MIN)

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

ALEC E. RIVERA R.C.E. NO. 87936 EXP. 12-31-19 DATE

QUALITY INFRASTRUCTURE CORPORATION
7777 ALVARADO ROAD, SUITE 606, LA MESA, CA 91942
(619) 741-9400
ARIVERA@QUALITYINFRASTRUCTURE.COM

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

TEMPORARY TRAFFIC CONTROL COVER SHEET FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T1 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- T1 -D

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER ALEC E. RIVERA No. 87936 Exp. 12/31/19 CIVIL STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

NOT FOR CONSTRUCTION – MAY 6, 2019

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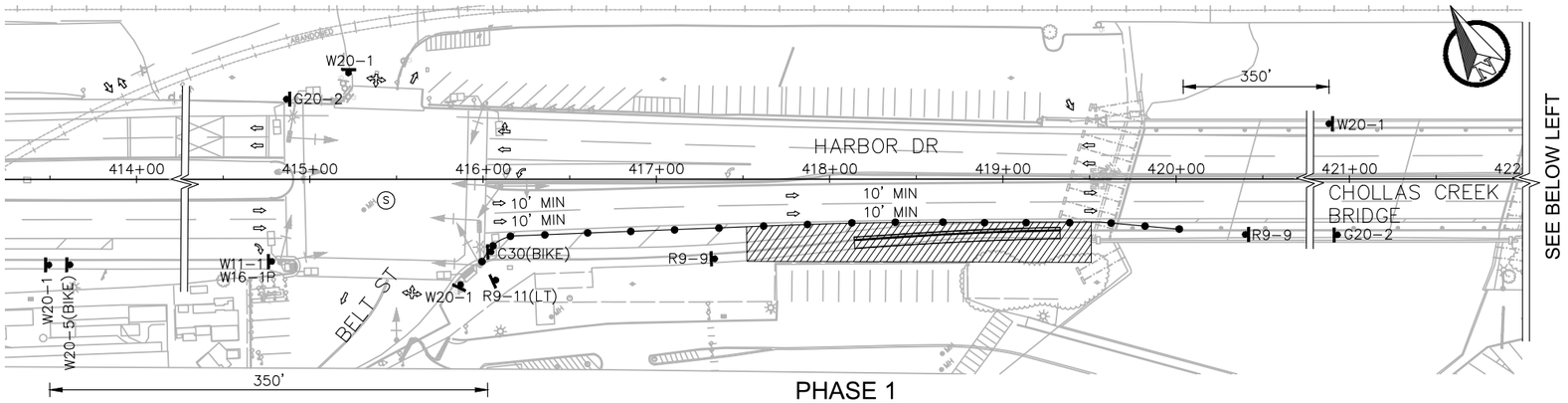
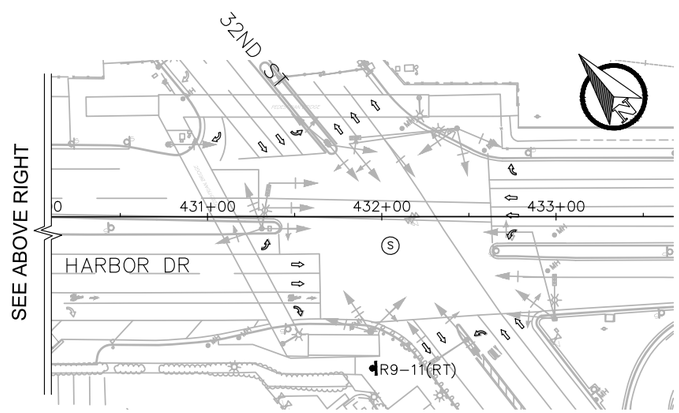


PHASE 1



PHASE 1

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
(S)	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

WORK HOURS 8:00 AM TO 5:00 PM

WORK DAYS MONDAY THROUGH FRIDAY

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
SB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	43 MPH	45 MPH	45' / 22'	350'
NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'

40 0 40 80 FEET

1"=40'

811 Know what's below. Call before you dig.

0 1/2 1

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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN

CONTRACT NO. –

DRAWING NO. –

SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 1 FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T2 OF T24 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED

INSPECTOR DATE COMPLETED

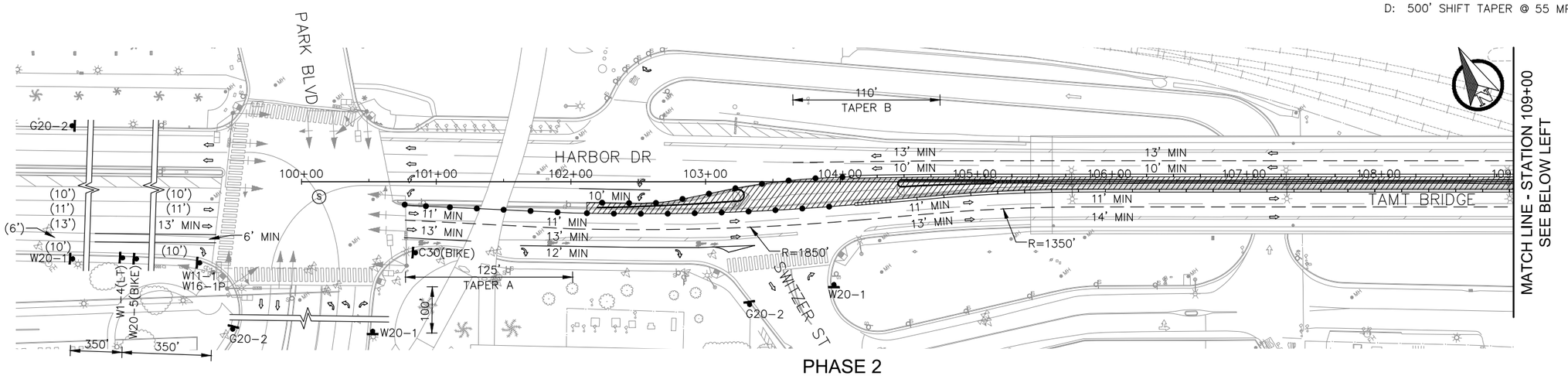
41370- T2 -D

5/2/2019 2:45:20 PM

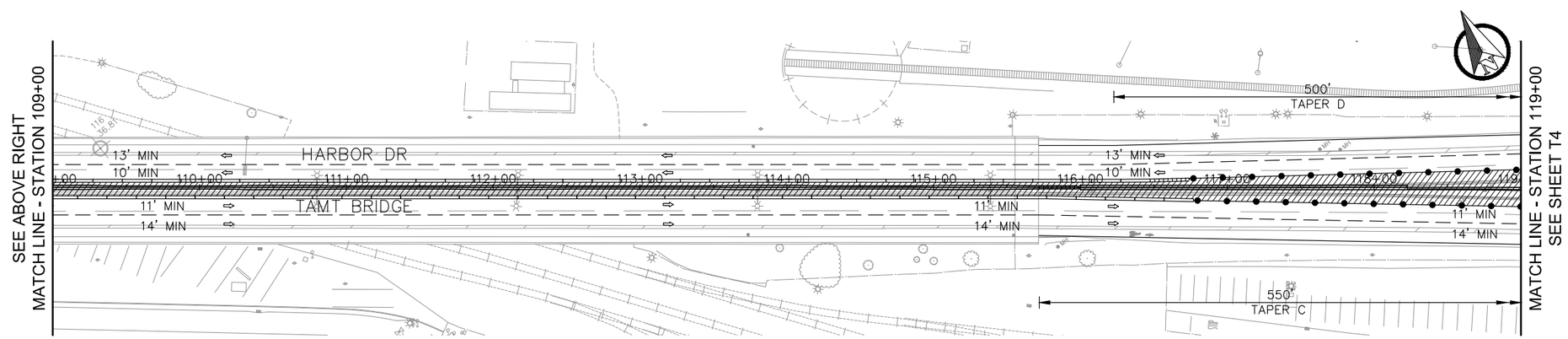
NOT FOR CONSTRUCTION – MAY 6, 2019

TAPER CALCULATIONS

A: 125' SHIFT TAPER @ 50 MPH = L/2 = (5*50)/2 = 125'
B: 110' SHIFT TAPER @ 55 MPH = L/2 = (4*55)/2 = 110'
C: 550' SHIFT TAPER @ 50 MPH = L/2 = (11*50)/2 = 275' MIN
D: 500' SHIFT TAPER @ 55 MPH = L/2 = (14*55)/2 = 385' MIN



PHASE 2



PHASE 2

NOTES:

1.) GRIND OFF EXIST STRIPING IN NB AND SB DIRECTIONS OF HARBOR DRIVE WHERE TEMPORARY STRIPING CONFLICTS.

WORK HOURS	8:00 AM	TO	5:00 PM
WORK DAYS	MONDAY THROUGH FRIDAY		

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
(S)	TRAFFIC SIGNAL
	WORKING AREA
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	TEMPORARY CRASH CUSHION

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
SB HARBOR DR (N)	PARK BLVD	CESAR CHAVEZ PK	45 MPH	50 MPH	50 MPH	50' / 25'	350'
NB HARBOR DR (N)	PARK BLVD	CESAR CHAVEZ PK	45 MPH	51 MPH	55 MPH	50' / 25'	350'
PARK BLVD	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'

40 0 40 80 FEET
1"=40'

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0 1/2 1
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619-741-9400
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY M. DOUGLAS	5/19	
CHECKED BY A. DODGE	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

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DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 2 FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T3 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

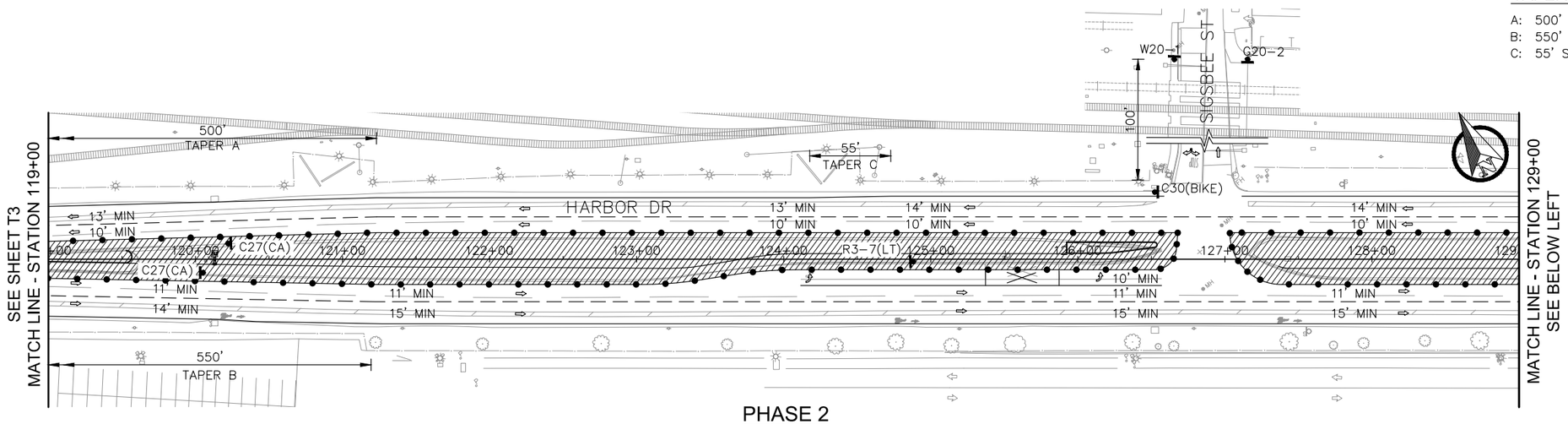
41370- T3-D

NOT FOR CONSTRUCTION – MAY 6, 2019

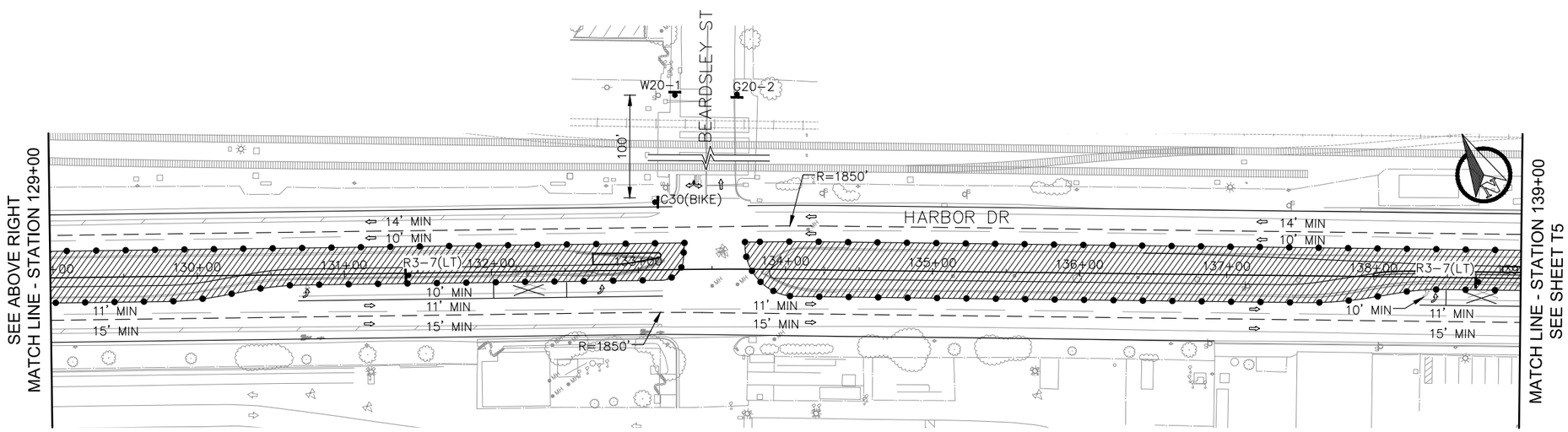
5/2/2019 2:47:29 PM

TAPER CALCULATIONS

A: 500' SHIFT TAPER @ 55 MPH = L/2 = (14*55)/2 = 385' MIN
B: 550' SHIFT TAPER @ 50 MPH = L/2 = (11*50)/2 = 275' MIN
C: 55' SHIFT TAPER @ 55 MPH = L/2 = (1*55)/2 = 28' MIN



PHASE 2



PHASE 2

NOTES:

1.) GRIND OFF EXIST STRIPING IN NB AND SB DIRECTIONS OF HARBOR DRIVE WHERE TEMPORARY STRIPING CONFLICTS.

WORK HOURS	8:00 AM	TO	5:00 PM
WORK DAYS	MONDAY THROUGH FRIDAY		

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
(S)	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
SB HARBOR DR (N)	PARK BLVD	CESAR CHAVEZ PK	45 MPH	50 MPH	50 MPH	50' / 25'	350'
NB HARBOR DR (N)	PARK BLVD	CESAR CHAVEZ PK	45 MPH	51 MPH	55 MPH	50' / 25'	350'
SIGSBEE ST	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'
BEARDSLEY ST	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'

40 0 40 80 FEET
1"=40'

811 Know what's below. Call before you dig.

0 1/2 1
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QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 2 FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T4 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

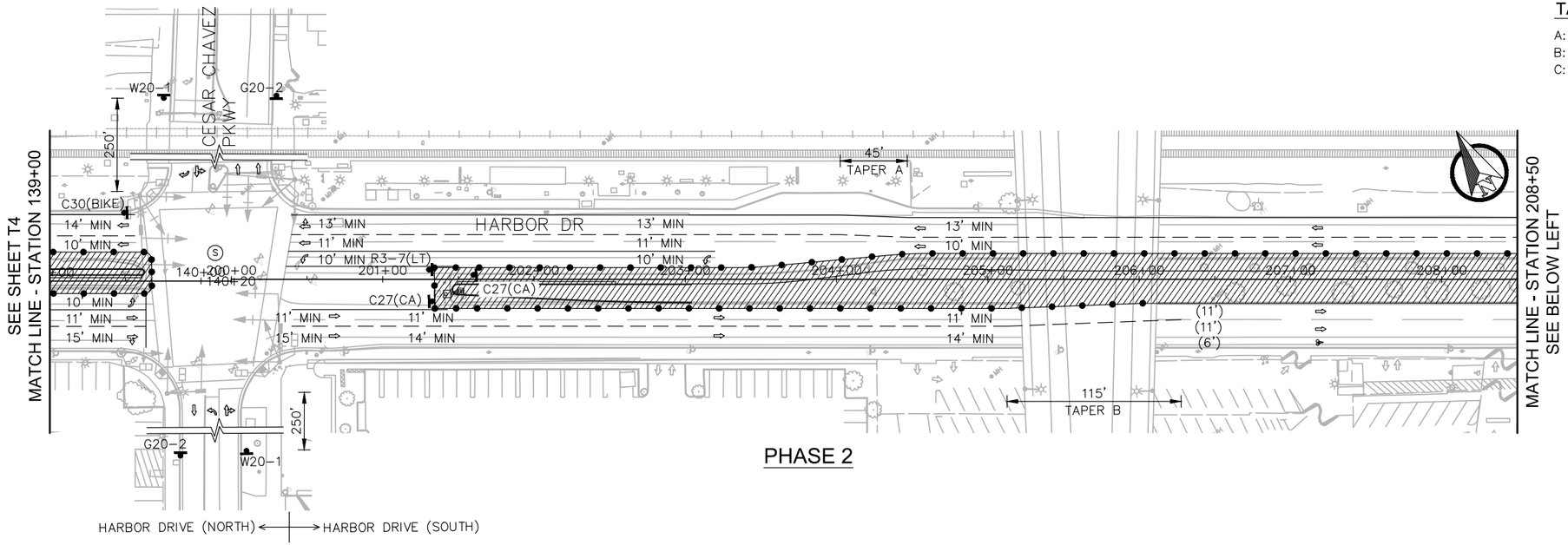
41370- T4-D

NOT FOR CONSTRUCTION – MAY 6, 2019

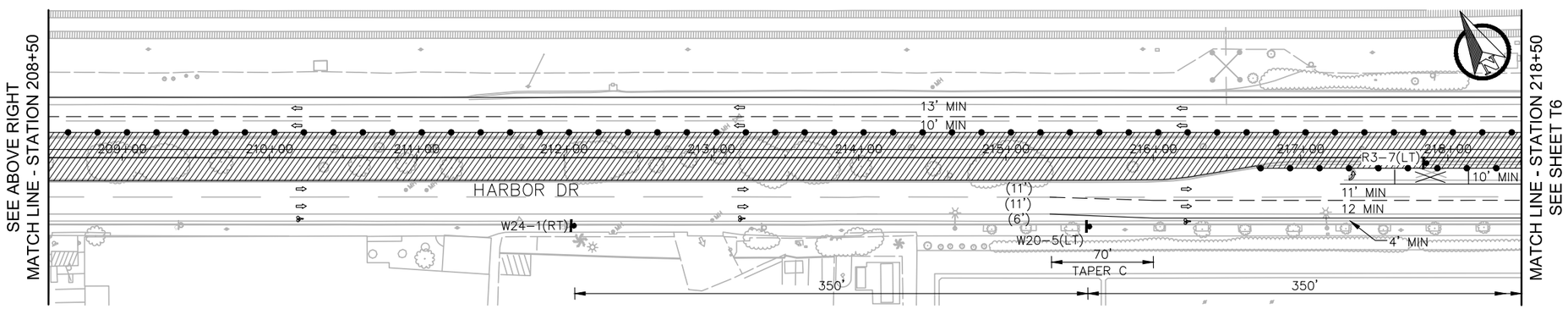
5/7/2019 2:49:25 PM

TAPER CALCULATIONS

A: 45' SHIFT TAPER @ 45 MPH = L/2 = (2*45)/2 = 45'
B: 115' SHIFT TAPER @ 45 MPH = L/2 = (5*45)/2 = 115'
C: 70' SHIFT TAPER @ 45 MPH = L/2 = (3*45)/2 = 35' MIN



PHASE 2



PHASE 2

NOTES:

1.) GRIND OFF EXIST STRIPING IN NB AND SB DIRECTIONS OF HARBOR DRIVE WHERE TEMPORARY STRIPING CONFLICTS.

WORK HOURS	8:00 AM	TO	5:00 PM
WORK DAYS	MONDAY THROUGH FRIDAY		

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
Ⓢ	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
SB HARBOR DR (N)	PARK BLVD	CESAR CHAVEZ PK	45 MPH	50 MPH	50 MPH	50' / 25'	350'
NB HARBOR DR (N)	PARK BLVD	CESAR CHAVEZ PK	45 MPH	51 MPH	55 MPH	50' / 25'	350'
SB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	43 MPH	45 MPH	45' / 22'	350'
NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'
CESAR CHAVEZ PK	—	—	25 MPH	30 MPH	30 MPH	30' / 15'	250'

40 0 40 80 FEET
1"=40'

811 Know what's below. Call before you dig.

0 1/2 1
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Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
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619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY M. DOUGLAS	5/19	
CHECKED BY A. DODGE	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 2 FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T5 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

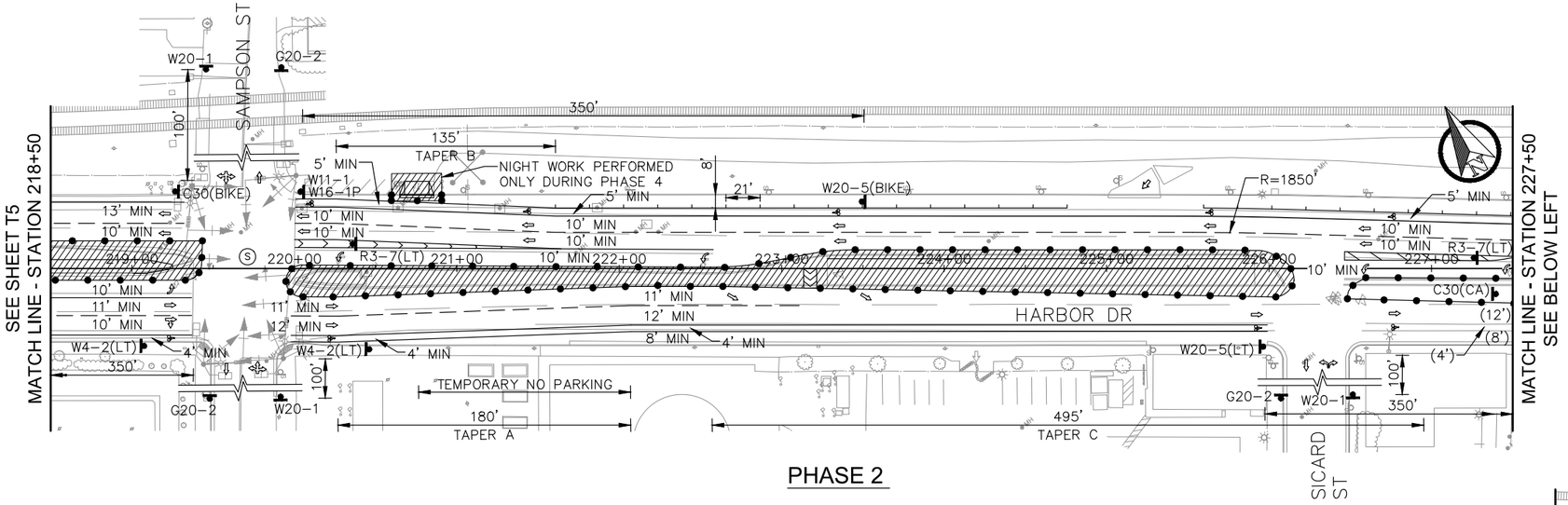
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

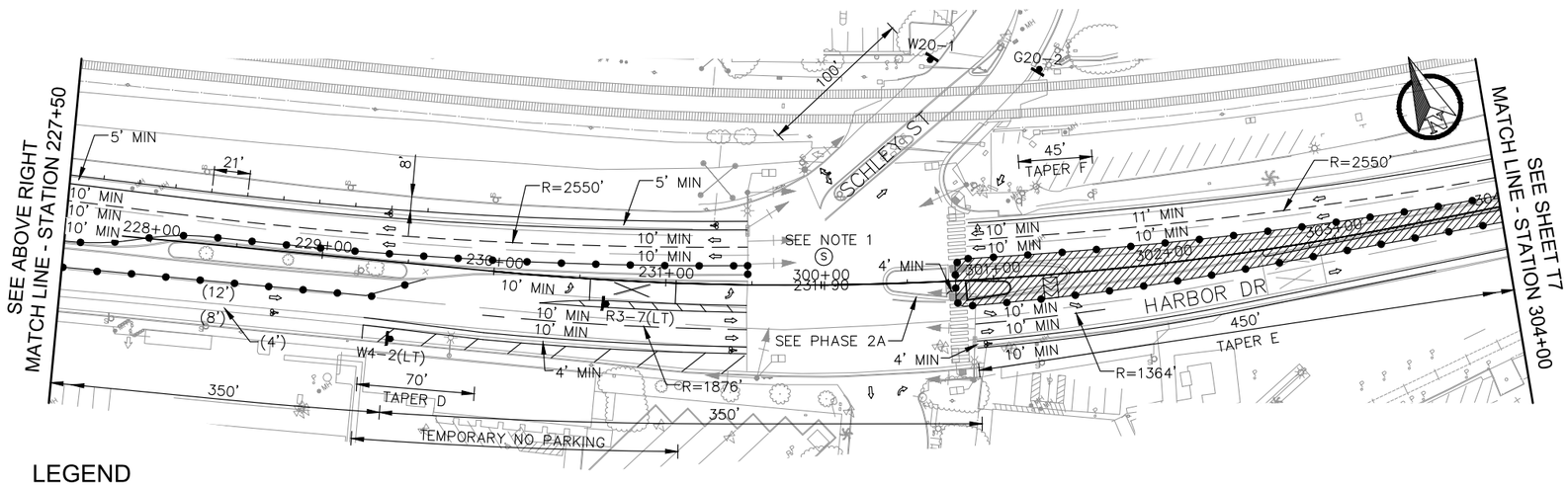
41370- T5-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 2:55:32 PM



PHASE 2



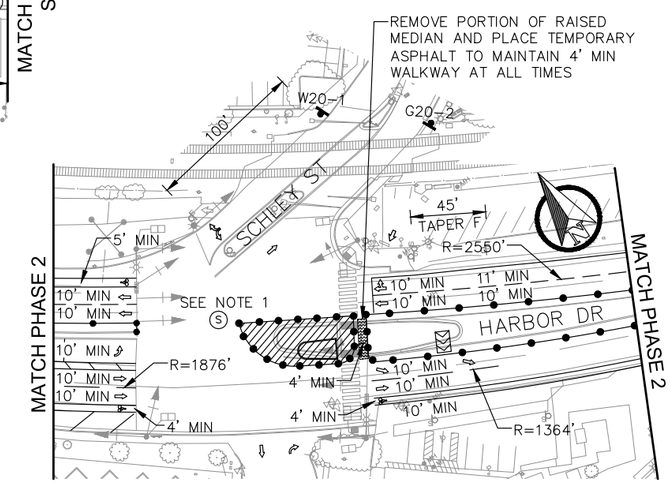
PHASE 2

TAPER CALCULATIONS

A: 180' SHIFT TAPER @ 45 MPH = L/2 = (8*45)/2 = 180'
B: 135' SHIFT TAPER @ 45 MPH = L/2 = (6*45)/2 = 135'
C: 495' MERGE TAPER @ 45 MPH = L = (11*45) = 495'
D: 70' SHIFT TAPER @ 45 MPH = L/2 = (3*45)/2 = 70'
E: 450' MERGE TAPER @ 45 MPH = L = (10*45) = 450'
F: 45' SHIFT TAPER @ 45 MPH = L/2 = (1*45)/2 = 23' MIN

NOTES:

1.) HARBOR DR. AND SCHLEY ST. INTERSECTION SIGNAL TO BE MODIFIED.
2.) GRIND OFF EXIST STRIPING IN NB AND SB DIRECTIONS OF HARBOR DRIVE WHERE TEMPORARY STRIPING CONFLICTS.



PHASE 2A

WORK HOURS 8:00 AM TO 5:00 PM
WORK DAYS MONDAY THROUGH FRIDAY

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION
	REMOVE PORTION OF RAISED MEDIAN AND PLACE TEMPORARY ASPHALT

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
SB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	43 MPH	45 MPH	45' / 22'	350'
NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'
SAMPSON ST	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'
SCHLEY ST	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'
SICARD ST	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'

40 0 40 80 FEET
1"=40'

811 Know what's below. Call before you dig.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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619-741-9400
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY M. DOUGLAS	5/19	
CHECKED BY A. DODGE	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 2 FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T6 OF T24 SHEETS

FOR CITY ENGINEER ____ DATE ____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

PROJECT NO. ____
V.T.M. ____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

41370- T6 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

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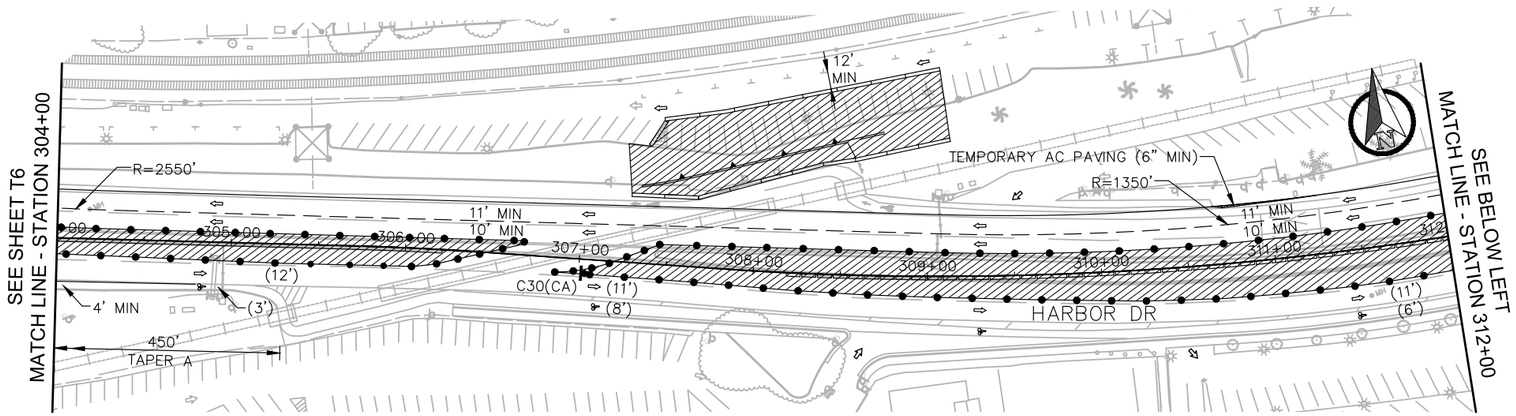
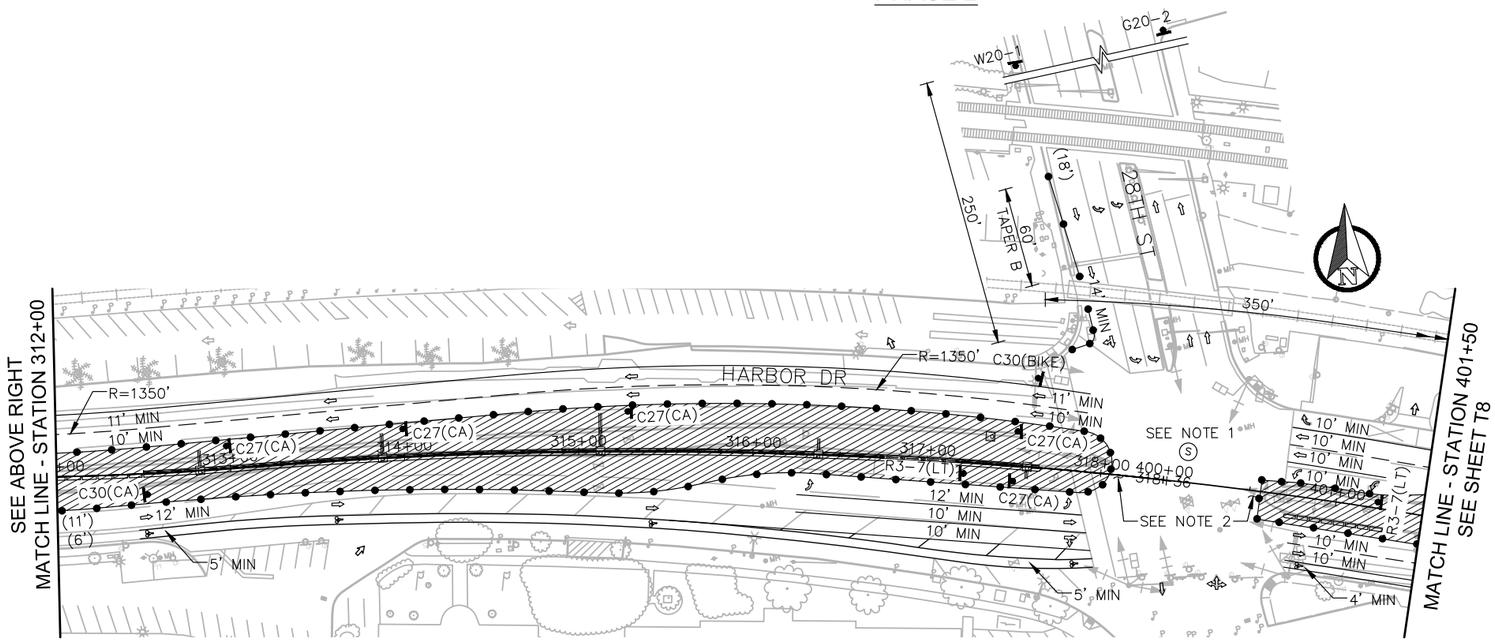


PHASE 2



PHASE 2

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
S	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION
	TEMPORARY AC PAVING (6" MIN)

NOTES:

1.) HARBOR DR. AND 28TH ST. INTERSECTION SIGNAL TO BE MODIFIED.
2.) CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ACROSS INTERSECTION DURING CONSTRUCTION.
3.) GRIND OFF EXIST STRIPING IN NB AND SB DIRECTIONS OF HARBOR DRIVE WHERE TEMPORARY STRIPING CONFLICTS.

WORK HOURS 8:00 AM TO 5:00 PM

WORK DAYS MONDAY THROUGH FRIDAY

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

SPEED DATA TABLE							
STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
SB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	43 MPH	45 MPH	45' / 22'	350'
NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'
28TH ST	NATIONAL AVE	HARBOR DR	30 MPH	27 MPH	30 MPH	30' / 15'	250'

40 0 40 80 FEET
1"=40'

811 Know what's below. Call before you dig.

TAPER CALCULATIONS

A: 450' MERGE TAPER @ 45 MPH = L = (10*45) = 450'
B: 60' SHIFT TAPER @ 30 MPH = L/2 = (4*30*30/60)/2 = 30' MIN

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY M. DOUGLAS	5/19	
CHECKED BY A. DODGE	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 2 FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T7 OF T24 SHEETS

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____
V.T.M. _____
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

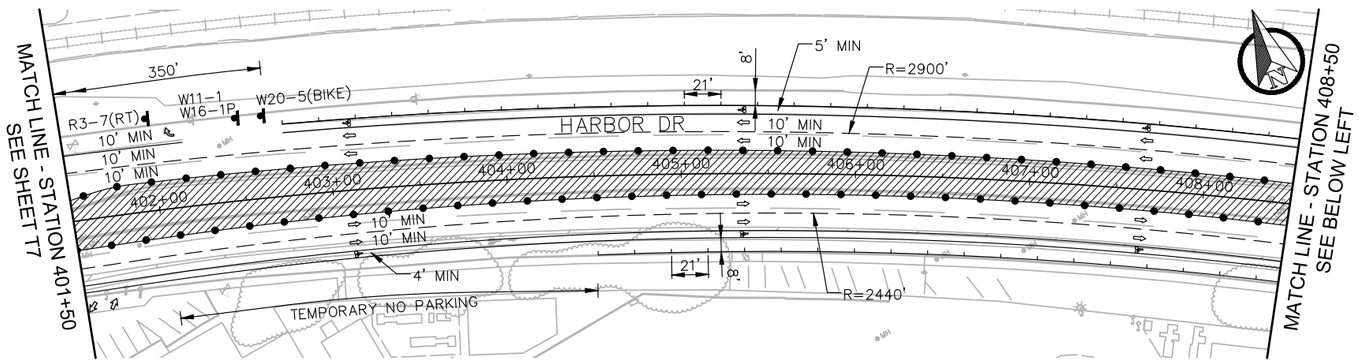
41370- T7 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

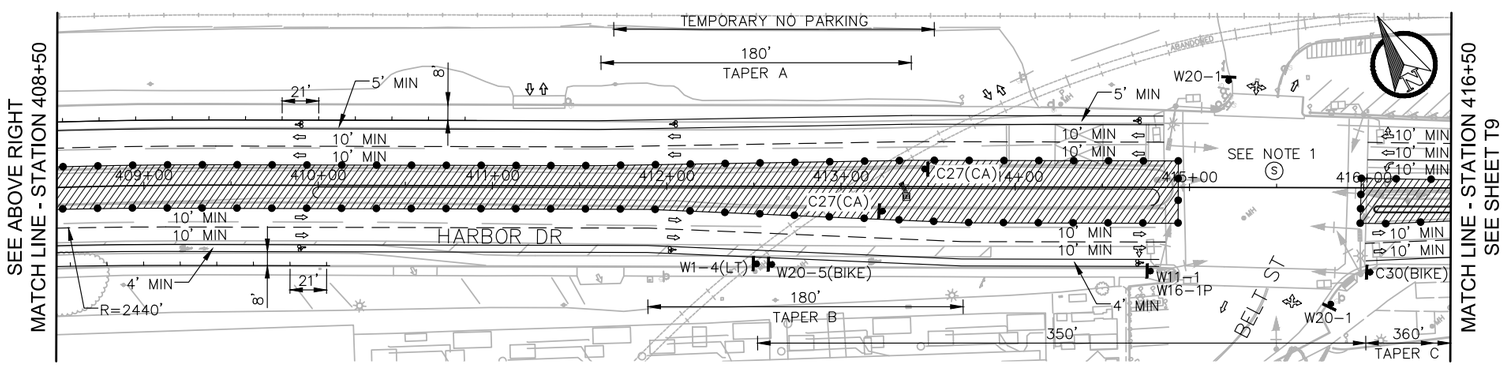
5/2/2019 2:54:57 PM

TAPER CALCULATIONS

A: 180' SHIFT TAPER @ 45 MPH = L = (4*45) = 180'
B: 180' SHIFT TAPER @ 45 MPH = L/2 = (8*45)/2 = 180'
C: 360' SHIFT TAPER @ 45 MPH = L/2 = (16*45)/2 = 360'



PHASE 2



PHASE 2

NOTES:

1.) HARBOR DR. AND BELT ST. INTERSECTION SIGNAL TO BE MODIFIED.
2.) GRIND OFF EXIST STRIPING IN NB AND SB DIRECTIONS OF HARBOR DRIVE WHERE TEMPORARY STRIPING CONFLICTS.

WORK HOURS 8:00 AM TO 5:00 PM

WORK DAYS MONDAY THROUGH FRIDAY

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
S	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
SB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	43 MPH	45 MPH	45' / 22'	350'
NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'

40 0 40 80 FEET
1"=40'

0 1/2 1
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CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY M. DOUGLAS	5/19	
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SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

811 Know what's below. Call before you dig.

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 2 FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T8 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

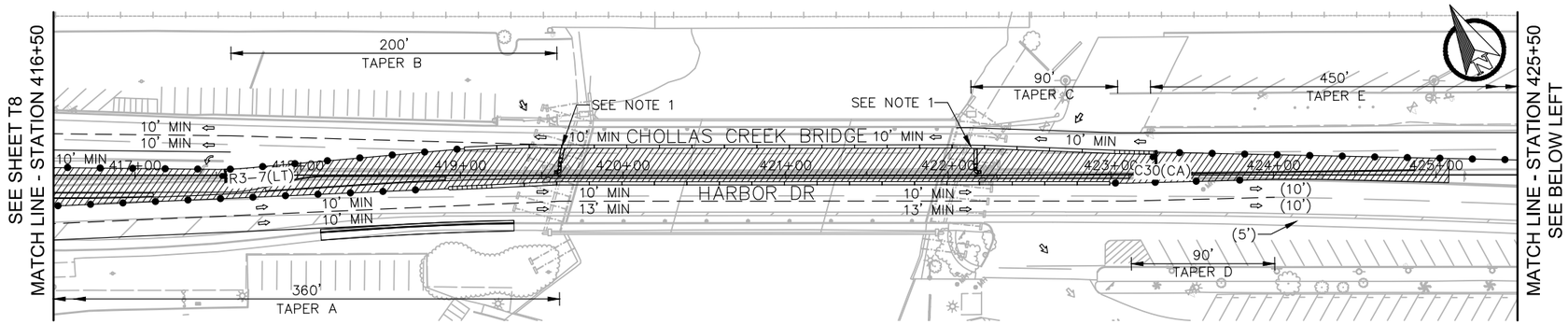
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- T8 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 2:56:37 PM



PHASE 2

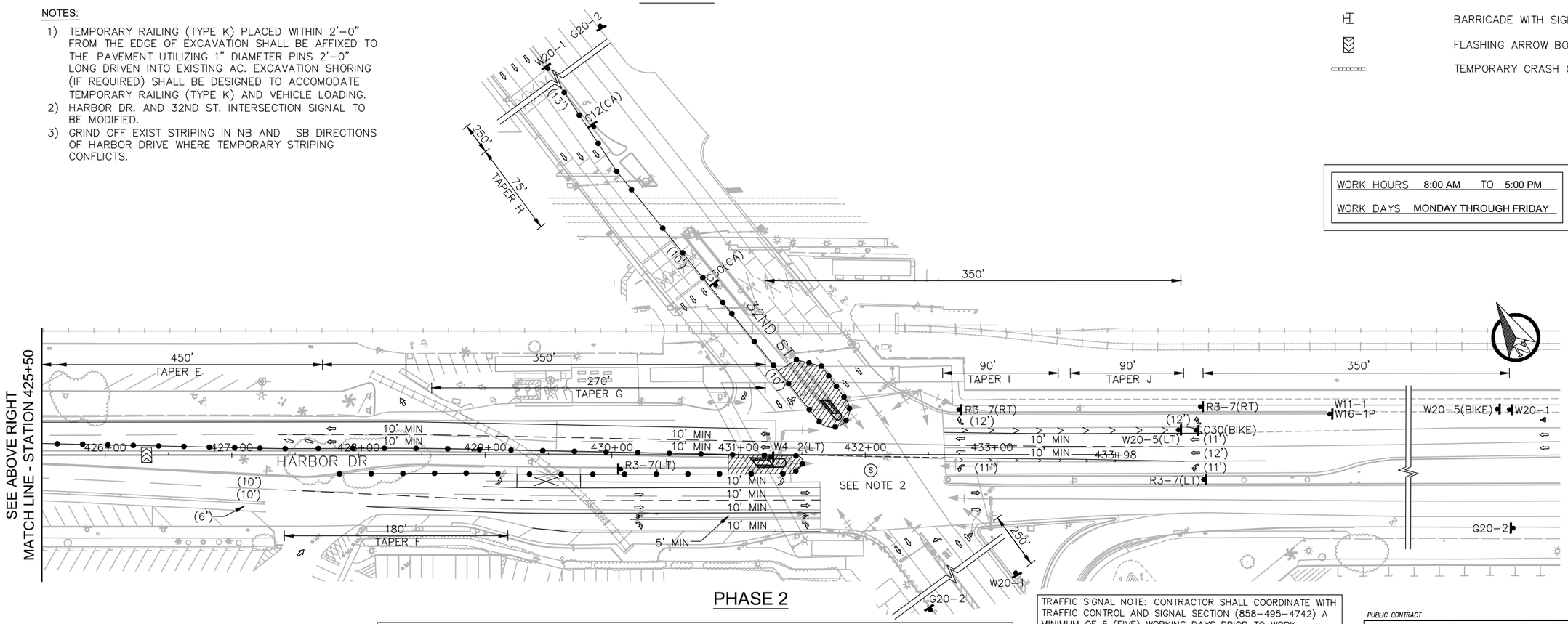
NOTES:

1) TEMPORARY RAILING (TYPE K) PLACED WITHIN 2'-0" FROM THE EDGE OF EXCAVATION SHALL BE AFFIXED TO THE PAVEMENT UTILIZING 1" DIAMETER PINS 2'-0" LONG DRIVEN INTO EXISTING AC. EXCAVATION SHORING (IF REQUIRED) SHALL BE DESIGNED TO ACCOMODATE TEMPORARY RAILING (TYPE K) AND VEHICLE LOADING.
2) HARBOR DR. AND 32ND ST. INTERSECTION SIGNAL TO BE MODIFIED.
3) GRIND OFF EXIST STRIPING IN NB AND SB DIRECTIONS OF HARBOR DRIVE WHERE TEMPORARY STRIPING CONFLICTS.

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

WORK HOURS	8:00 AM	TO	5:00 PM
WORK DAYS	MONDAY THROUGH FRIDAY		



PHASE 2

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

40 0 40 80 FEET
1"=40'

811 Know what's below. Call before you dig.

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
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NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'
32ND ST	HARBOR DR	NATIONAL AVE	30 MPH	35 MPH	35 MPH	35' / 17'	250'

TAPER CALCULATIONS

A: 360' SHIFT TAPER @ 45 MPH = L/2 = (16*45)/2 = 360'
B: 200' SHIFT TAPER @ 45 MPH = L/2 = (4*45)/2 = 90' MIN
C: 90' SHIFT TAPER @ 45 MPH = L/2 = (4*45)/2 = 90'
D: 90' SHIFT TAPER @ 45 MPH = L/2 = (4*45)/2 = 90'
E: 450' MERGE TAPER @ 45 MPH = L = (10*45) = 450'
F: 180' SHIFT TAPER @ 45 MPH = L/2 = (4*45)/2 = 90' MIN
G: 270' SHIFT TAPER @ 45 MPH = L/2 = (6*45)/2 = 135' MIN
H: 75' SHIFT TAPER @ 35 MPH = L/2 = (3*35*35/60)/2 = 38' MIN
I: 90' SHIFT TAPER @ 45 MPH = L/2 = (2*45)/2 = 45' MIN
J: 90' SHIFT TAPER @ 45 MPH = L/2 = (2*45)/2 = 45' MIN

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY M. DOUGLAS	5/19	
CHECKED BY A. DODGE	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 2 FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T9 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

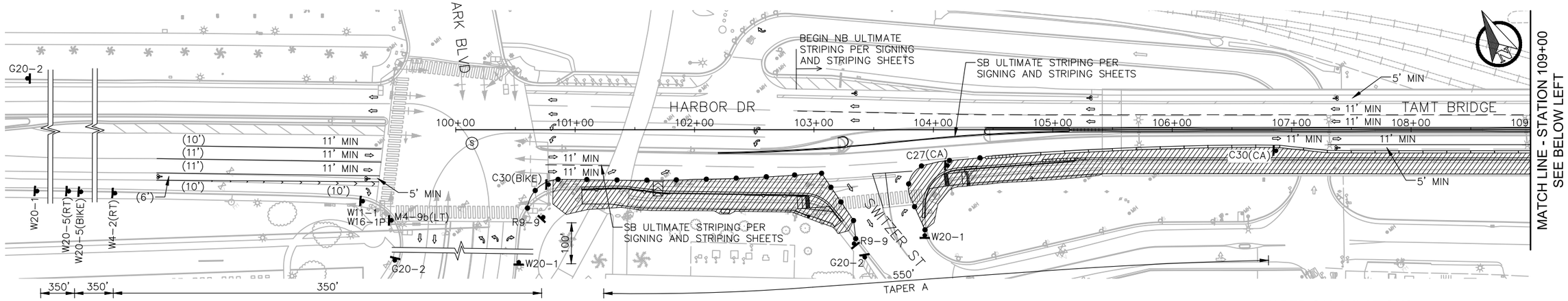
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- T9-D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 2:58:22 PM



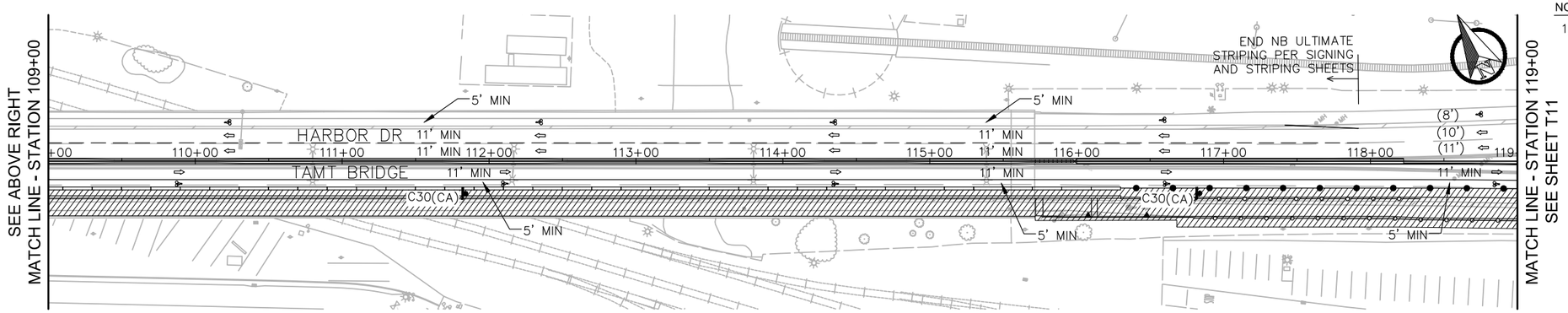
PHASE 3

TAPER CALCULATIONS

A: 550' MERGE TAPER @ 50 MPH = L = (11*50) = 550'

NOTES:

1) GRIND OFF PHASE 2 TEMPORARY STRIPING AND REPLACE WITH PHASE 3 TEMPORARY STRIPING (AS SHOWN) OR ULTIMATE STRIPING PER SIGNING AND STRIPING SHEETS WHERE IDENTIFIED.



PHASE 3

WORK HOURS	8:00 AM TO 5:00 PM
WORK DAYS	MONDAY THROUGH FRIDAY

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
(S)	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
SB HARBOR DR (N)	PARK BLVD	CESAR CHAVEZ PK	45 MPH	50 MPH	50 MPH	50' / 25'	350'
NB HARBOR DR (N)	PARK BLVD	CESAR CHAVEZ PK	45 MPH	51 MPH	55 MPH	50' / 25'	350'
PARK BLVD	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'

40 0 40 80 FEET
1"=40'

811 Know what's below. Call before you dig.

0 1/2 1
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QIC
Quality Infrastructure Corporation
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619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 3 FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T10 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

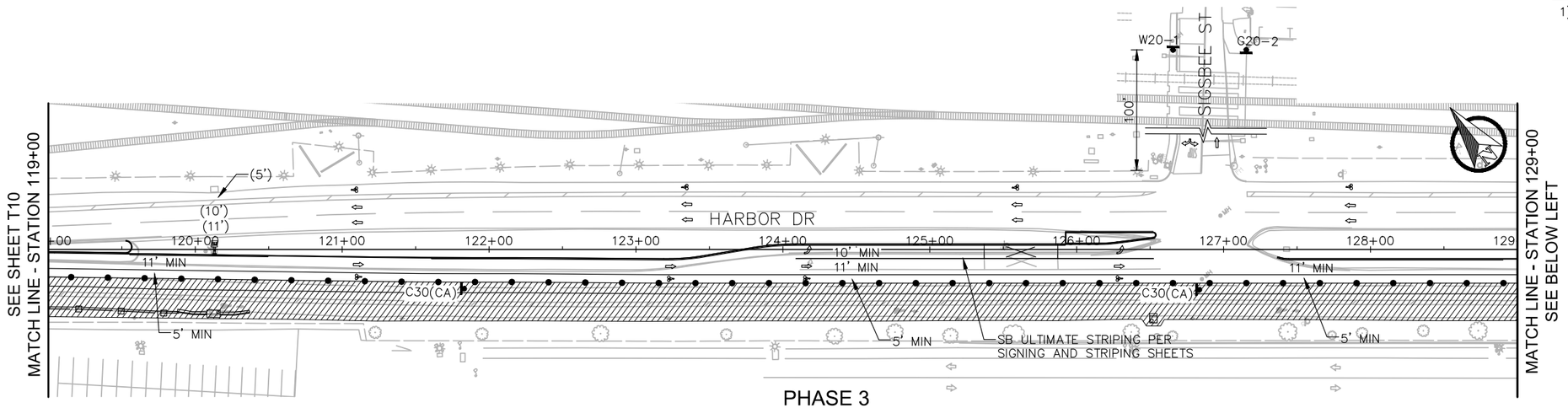
41370- T10 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

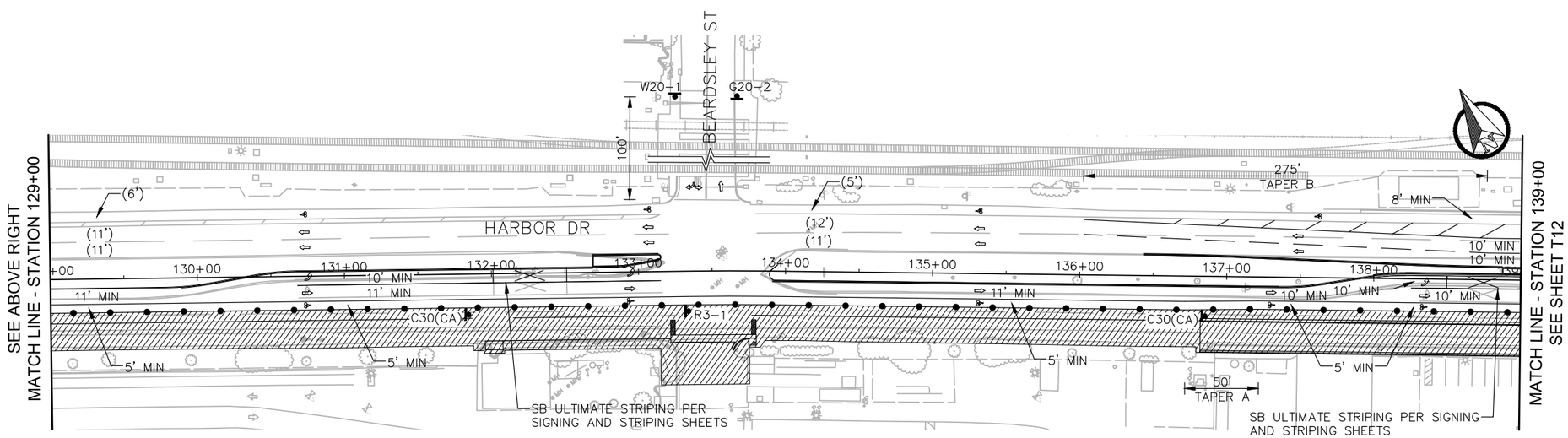
5/2/2019 2:59:52 PM

NOTES:

1) GRIND OFF PHASE 2 TEMPORARY STRIPING AND REPLACE WITH PHASE 3 TEMPORARY STRIPING (AS SHOWN) OR ULTIMATE STRIPING PER SIGNING AND STRIPING SHEETS WHERE IDENTIFIED.



PHASE 3



PHASE 3

WORK HOURS	8:00 AM	TO	5:00 PM
WORK DAYS	MONDAY THROUGH FRIDAY		

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
(S)	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

TAPER CALCULATIONS

A: 50' SHIFT TAPER @ 50 MPH = L/2 = (1*50)/2 = 25' MIN
B: 275' SHIFT TAPER @ 55 MPH = L/2 = (10*55)/2 = 275'

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
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NB HARBOR DR (N)	PARK BLVD	CESAR CHAVEZ PK	45 MPH	51 MPH	55 MPH	50' / 25'	350'
SIGSBEE ST	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'
BEARDSLEY ST	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'

40 0 40 80 FEET
1"=40'

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0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 3 FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T11 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

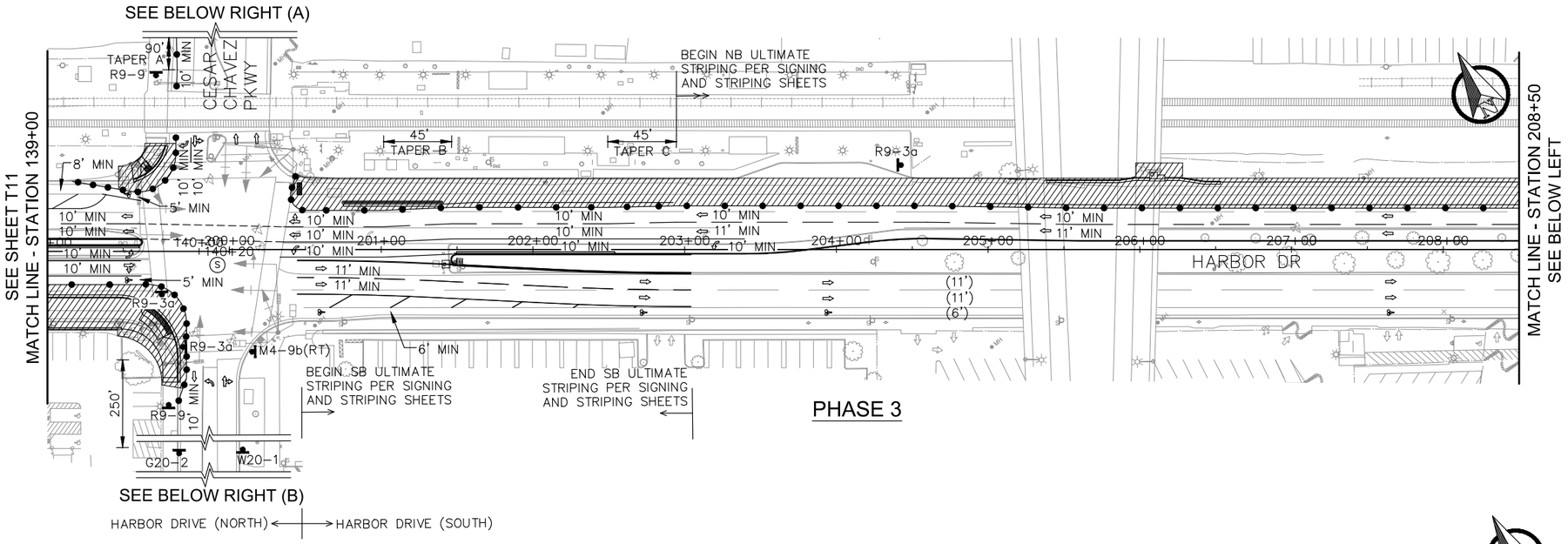
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

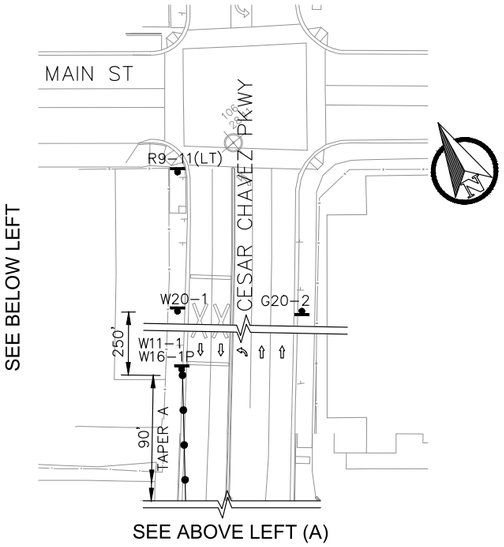
41370- T11 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

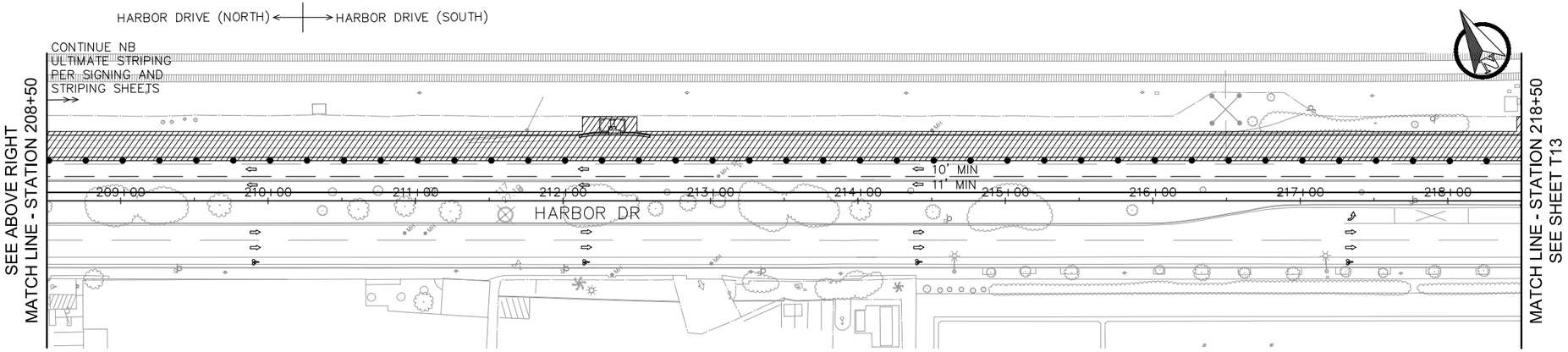
5/2/2019 3:08:51 PM



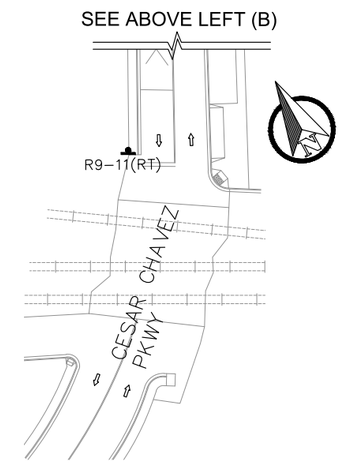
PHASE 3



PHASE 3



PHASE 3



PHASE 3

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

TAPER CALCULATIONS

A: 90' SHIFT TAPER @ 30 MPH = L/2 = (6*30*30/60)/2 = 45' MIN
B: 45' SHIFT TAPER @ 45 MPH = L/2 = (2*45)/2 = 45'
C: 45' SHIFT TAPER @ 45 MPH = L/2 = (1*45)/2 = 23' MIN

WORK HOURS 8:00 AM TO 5:00 PM
WORK DAYS MONDAY THROUGH FRIDAY

NOTES:

1) GRIND OFF PHASE 2 TEMPORARY STRIPING AND REPLACE WITH PHASE 3 TEMPORARY STRIPING (AS SHOWN) OR ULTIMATE STRIPING PER SIGNING AND STRIPING SHEETS WHERE IDENTIFIED.

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
SB HARBOR DR (N)	PARK BLVD	CESAR CHAVEZ PK	45 MPH	50 MPH	50 MPH	50' / 25'	350'
NB HARBOR DR (N)	PARK BLVD	CESAR CHAVEZ PK	45 MPH	51 MPH	55 MPH	50' / 25'	350'
SB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	43 MPH	45 MPH	45' / 22'	350'
NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'
CESAR CHAVEZ PK	N/A	N/A	25 MPH	30 MPH	30 MPH	30' / 15'	250'

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

40 0 40 80 FEET
1"=40'

811 Know what's below. Call before you dig.

0 1/2 1
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La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY M. DOUGLAS	5/19	
CHECKED BY A. DODGE	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 3 FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T12 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

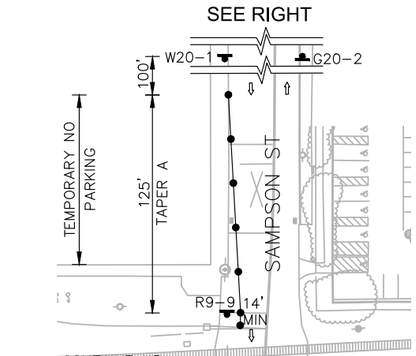
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

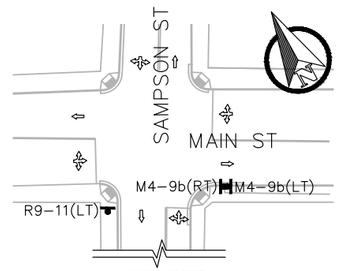
CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- T12 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 3:12:25 PM





PHASE 3

SPEED DATA TABLE							
STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
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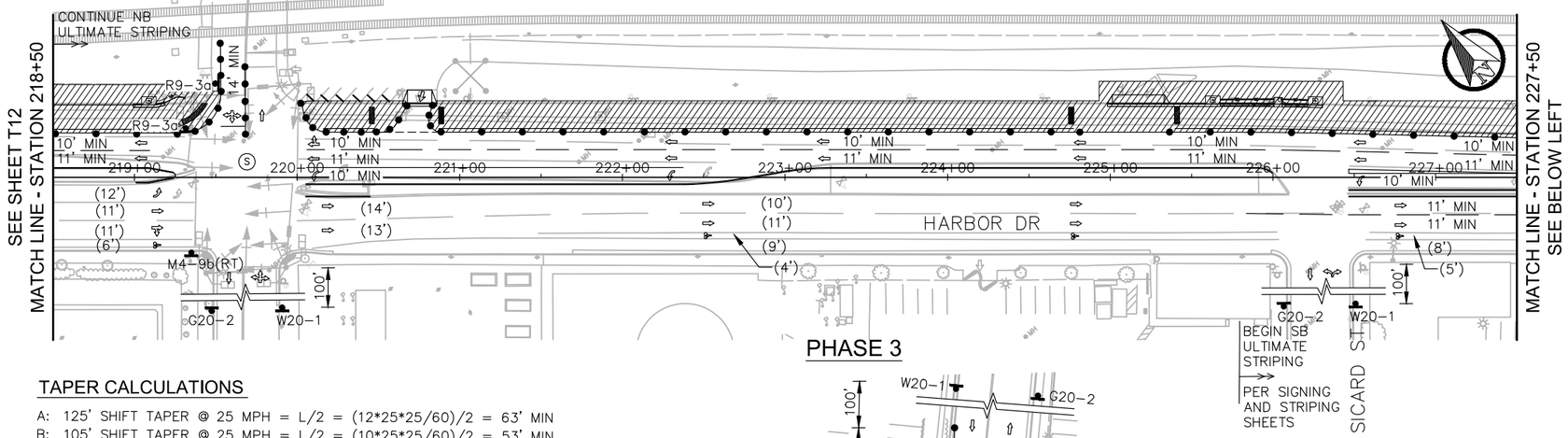
NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'
SAMPSON ST	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'
SCHLEY ST	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'
SICARD ST	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION



PHASE 3

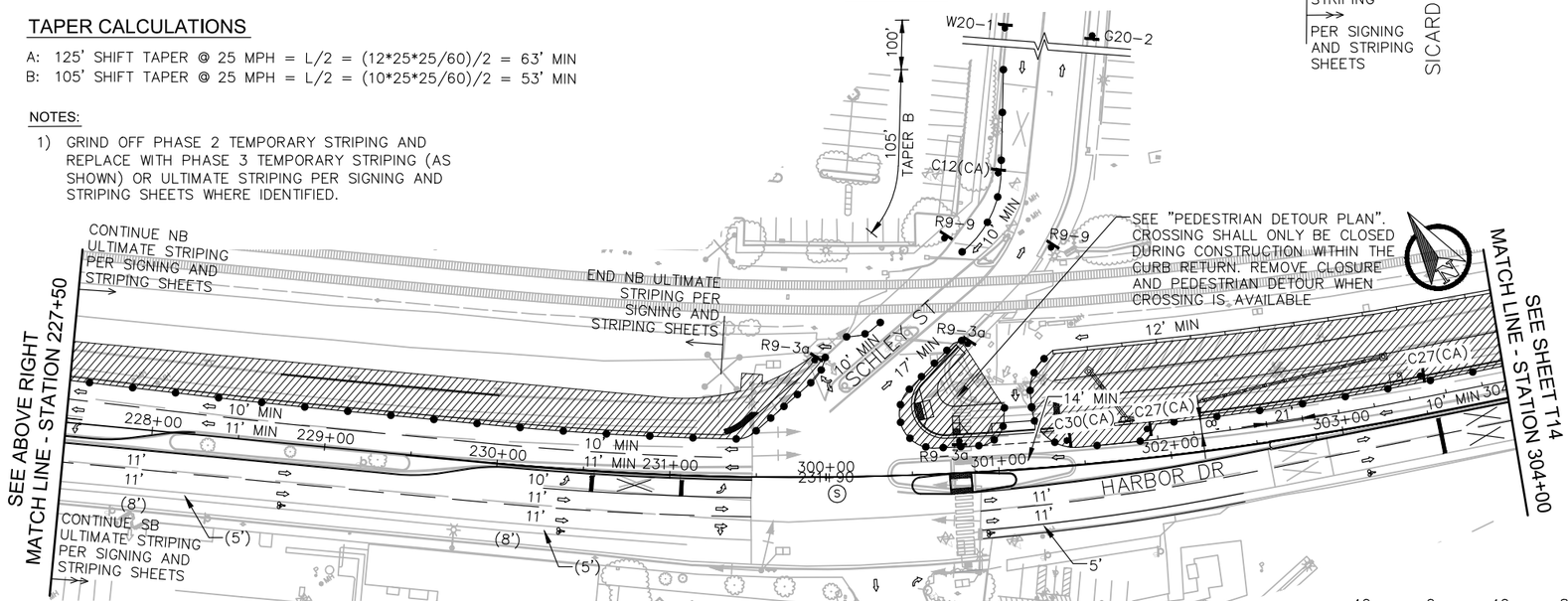
TAPER CALCULATIONS

A: 125' SHIFT TAPER @ 25 MPH = L/2 = (12*25*25/60)/2 = 63' MIN
B: 105' SHIFT TAPER @ 25 MPH = L/2 = (10*25*25/60)/2 = 53' MIN

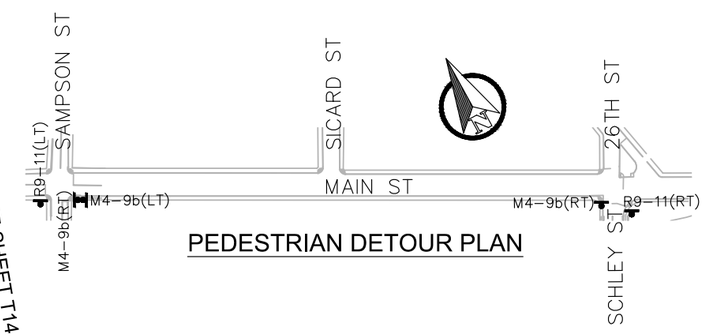
NOTES:

1) GRIND OFF PHASE 2 TEMPORARY STRIPING AND REPLACE WITH PHASE 3 TEMPORARY STRIPING (AS SHOWN) OR ULTIMATE STRIPING PER SIGNING AND STRIPING SHEETS WHERE IDENTIFIED.

WORK HOURS	8:00 AM TO 5:00 PM
WORK DAYS	MONDAY THROUGH FRIDAY



PHASE 3



PEDESTRIAN DETOUR PLAN

40 0 40 80 FEET
1"=40'

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

0 1/2 1
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Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 3 FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T13 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

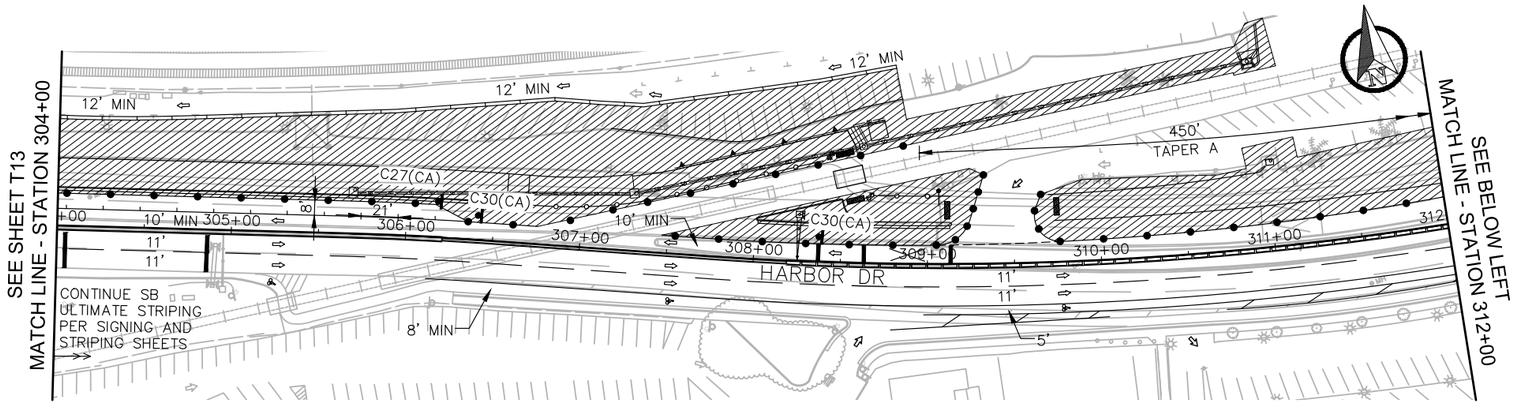
1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

41370- T13 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 3:23:10 PM



PHASE 3

LEGEND

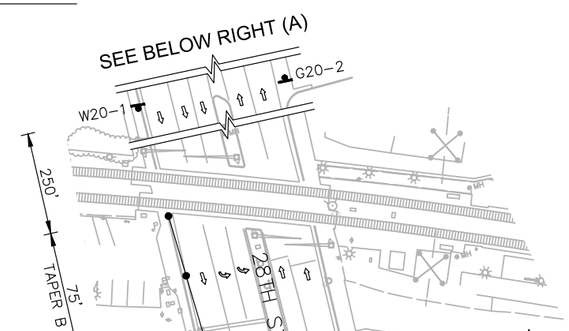
XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
(S)	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

TAPER CALCULATIONS

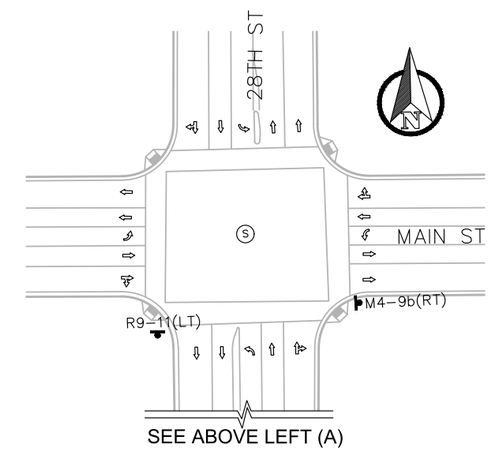
A: 450' MERGE TAPER @ 45 MPH = L = (45*10) = 450'
B: 75' SHIFT TAPER @ 30 MPH = L/2 = (5*30*30/60)/2 = 38' MIN

NOTES:

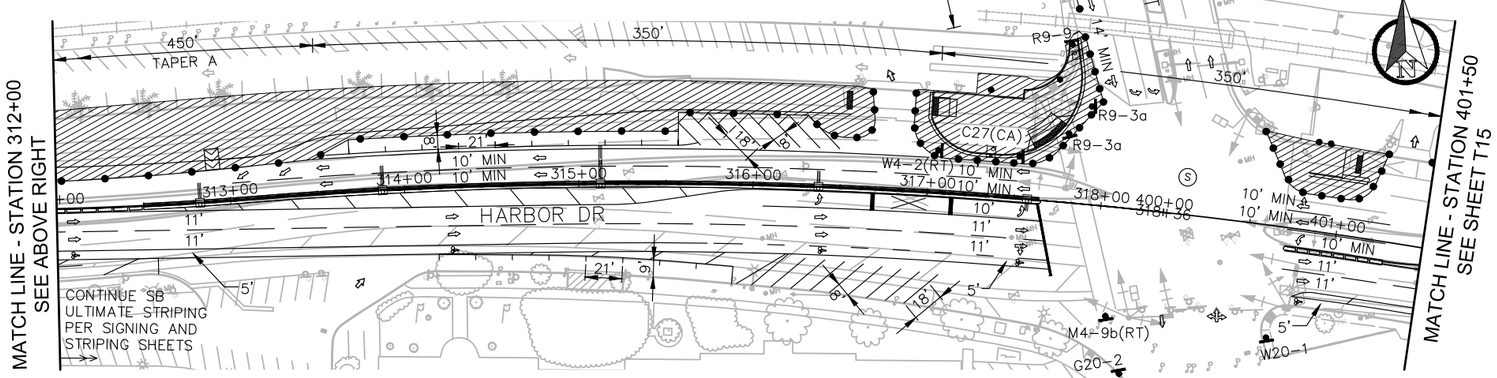
1) GRIND OFF PHASE 2 TEMPORARY STRIPING AND REPLACE WITH PHASE 3 TEMPORARY STRIPING (AS SHOWN) OR ULTIMATE STRIPING PER SIGNING AND STRIPING SHEETS WHERE IDENTIFIED.



PHASE 3



PHASE 3



PHASE 3

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

SPEED DATA TABLE

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NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'
28TH ST	NATIONAL AVE	HARBOR DR	30 MPH	27 MPH	30 MPH	30' / 15'	250'

WORK HOURS 8:00 AM TO 5:00 PM

WORK DAYS MONDAY THROUGH FRIDAY

40 0 40 80 FEET
1"=40'

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CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 3 FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T14 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

41370- T14 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

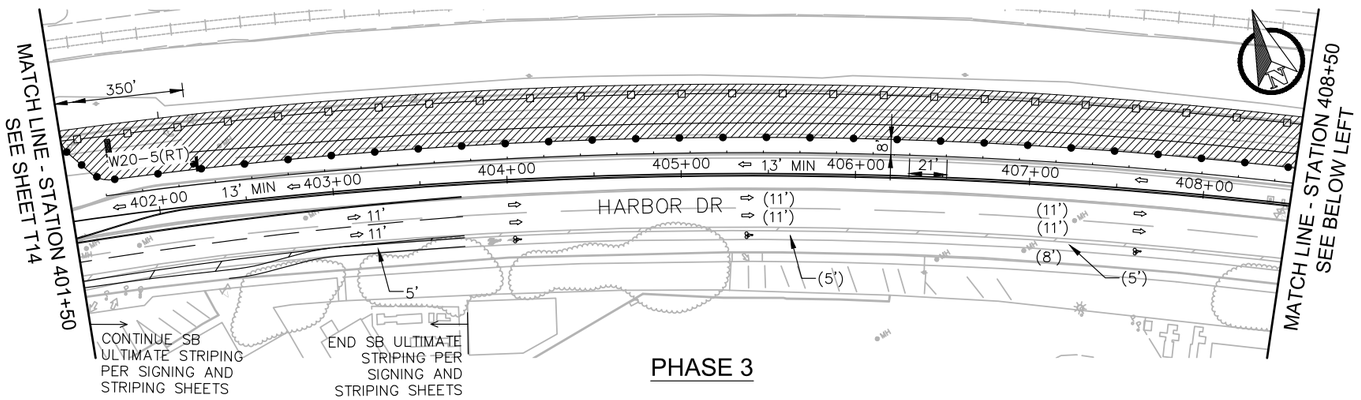
5/2/2019 3:25:32 PM

TAPER CALCULATIONS

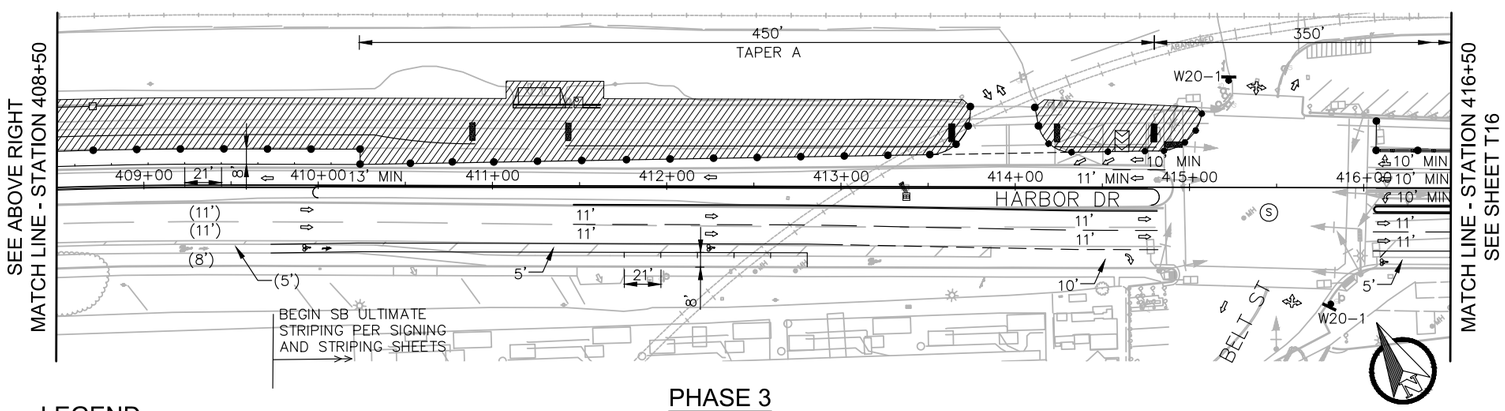
A: 450' MERGE TAPER @ 45 MPH = L = (45*10) = 450'

NOTES:

1) GRIND OFF PHASE 2 TEMPORARY STRIPING AND REPLACE WITH PHASE 3 TEMPORARY STRIPING (AS SHOWN) OR ULTIMATE STRIPING PER SIGNING AND STRIPING SHEETS WHERE IDENTIFIED.



PHASE 3



PHASE 3

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
(S)	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

WORK HOURS 8:00 AM TO 5:00 PM

WORK DAYS MONDAY THROUGH FRIDAY

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
SB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	43 MPH	45 MPH	45' / 22'	350'
NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'
28TH ST	NATIONAL AVE	HARBOR DR	30 MPH	27 MPH	30 MPH	30' / 15'	250'

40 0 40 80 FEET

1"=40'

811 Know what's below. Call before you dig.

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC

Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY M. DOUGLAS	5/19	
CHECKED BY A. DODGE	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN

CONTRACT NO. –

DRAWING NO. –

SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 3 FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T15 OF T24 SHEETS

FOR CITY ENGINEER _____ DATE _____

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

PROJECT NO. _____

V.T.M. _____

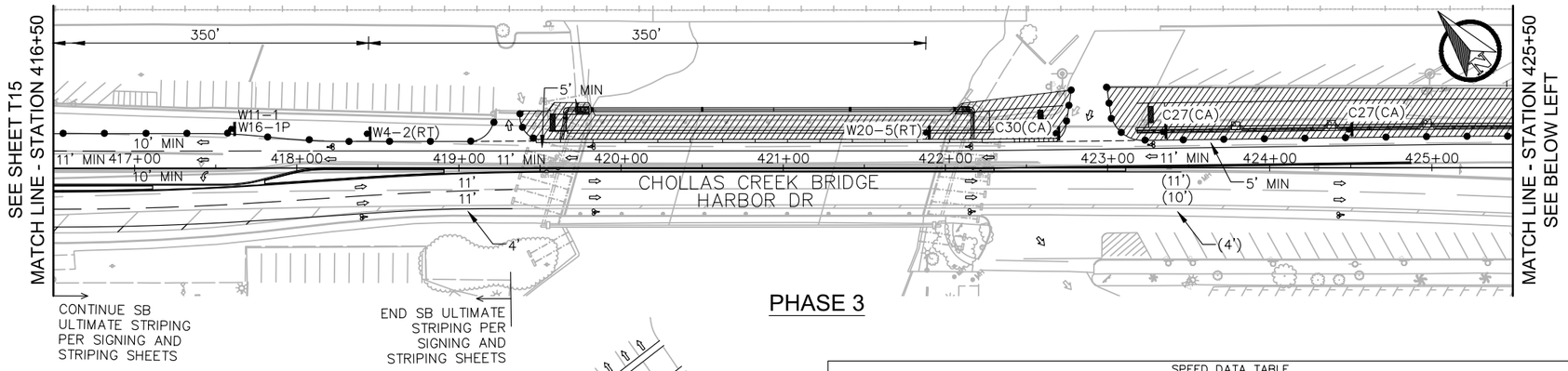
1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

41370- T15 -D

5/2/2019 3:27:37 PM

NOT FOR CONSTRUCTION – MAY 6, 2019



PHASE 3

LEGEND

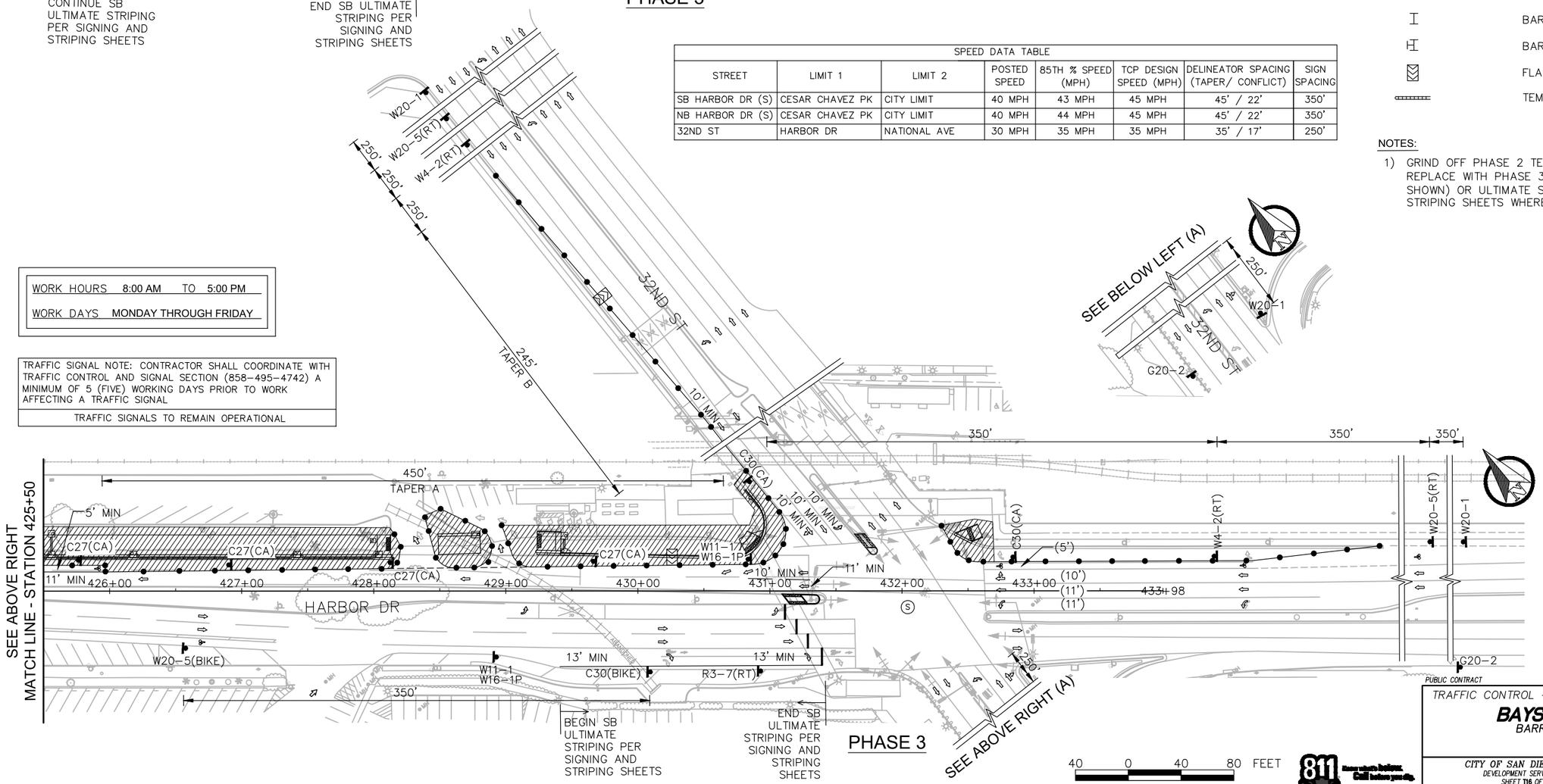
XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
(S)	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

NOTES:

1) GRIND OFF PHASE 2 TEMPORARY STRIPING AND REPLACE WITH PHASE 3 TEMPORARY STRIPING (AS SHOWN) OR ULTIMATE STRIPING PER SIGNING AND STRIPING SHEETS WHERE IDENTIFIED.

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
SB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	43 MPH	45 MPH	45' / 22'	350'
NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'
32ND ST	HARBOR DR	NATIONAL AVE	30 MPH	35 MPH	35 MPH	35' / 17'	250'



PHASE 3

WORK HOURS	8:00 AM TO 5:00 PM
WORK DAYS	MONDAY THROUGH FRIDAY

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

40 0 40 80 FEET
1"=40'

811 Know what's below. Call before you dig.

TAPER CALCULATIONS

A: 450' MERGE TAPER @ 45 MPH = L = (45*10) = 450'
B: 245' MERGE TAPER @ 35 MPH = L = (12*35*35/60) = 245'

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
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La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

TRAFFIC CONTROL – PHASE 3 FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T16 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

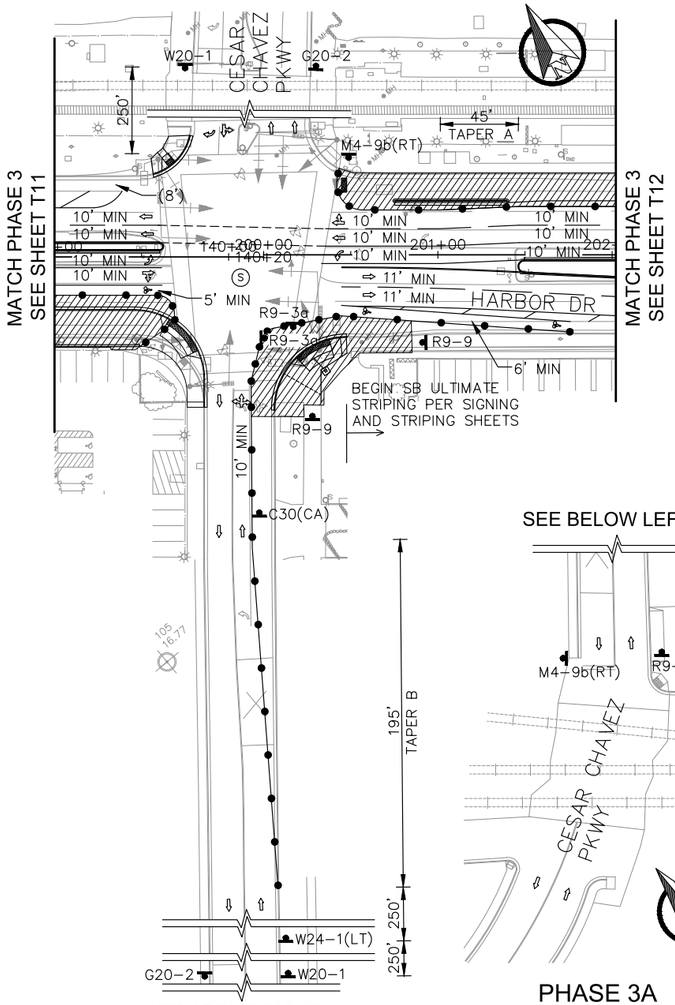
1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- T16 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

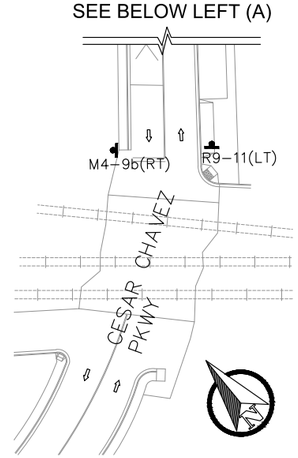
5/2/2019 3:59:01 PM



SEE ABOVE RIGHT (A)

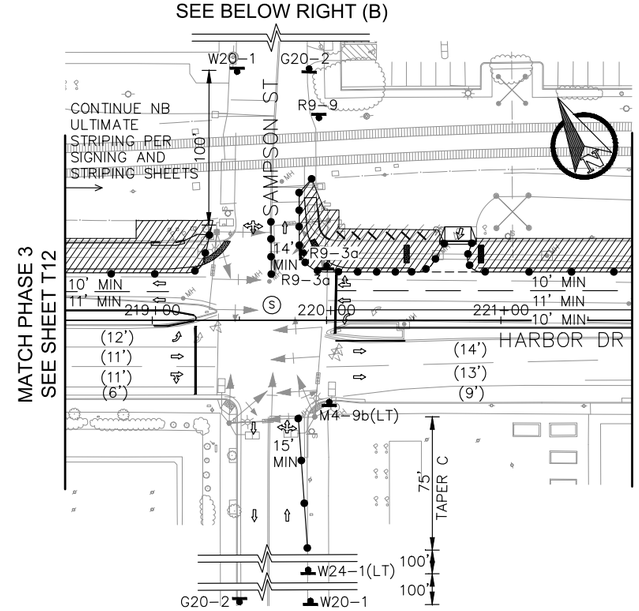
PHASE 3A

SEE BELOW LEFT (A)



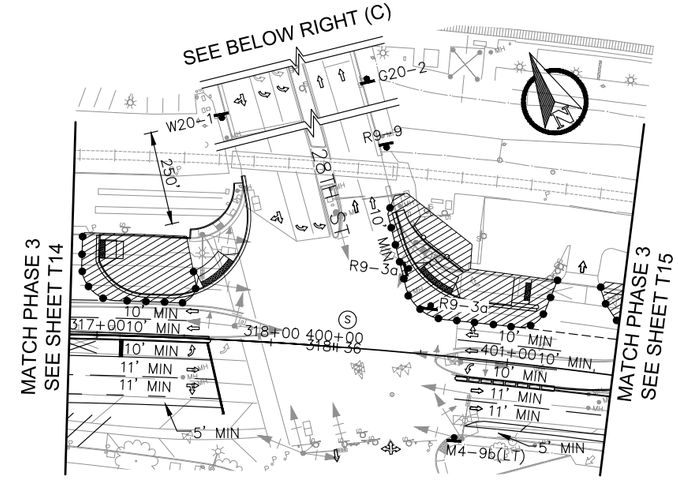
PHASE 3A

SEE BELOW RIGHT (B)



PHASE 3A

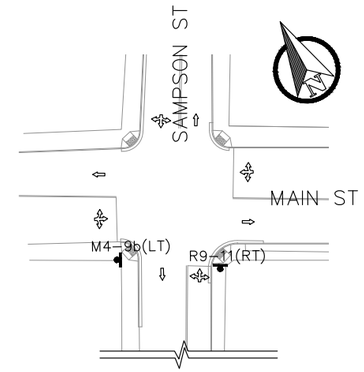
SEE BELOW RIGHT (C)



PHASE 3A

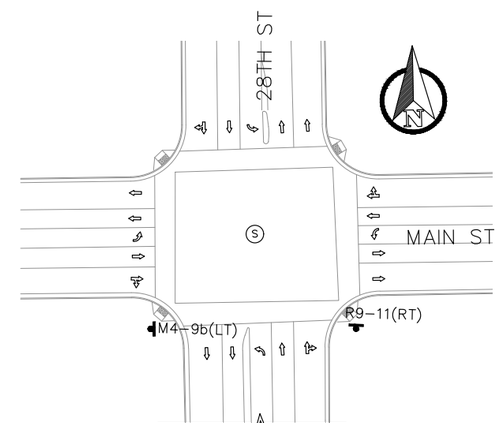
TAPER CALCULATIONS

A: 45' SHIFT TAPER @ 45 MPH = L/2 = (2*45)/2 = 45'
B: 195' SHIFT TAPER @ 30 MPH = L = (13*30*30/60)/2 = 98' MIN
C: 75' SHIFT TAPER @ 25 MPH = L/2 = (7*25*25/60)/2 = 38' MIN



SEE ABOVE LEFT (B)

PHASE 3A



SEE ABOVE LEFT (C)

PHASE 3A

NOTES:

1) GRIND OFF PHASE 3 TEMPORARY STRIPING AND REPLACE WITH PHASE 3A TEMPORARY STRIPING (AS SHOWN) OR ULTIMATE STRIPING PER SIGNING AND STRIPING SHEETS WHERE IDENTIFIED.

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

WORK HOURS 8:00 AM TO 5:00 PM

WORK DAYS MONDAY THROUGH FRIDAY

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
SB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	43 MPH	45 MPH	45' / 22'	350'
NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'
CESAR CHAVEZ PK	N/A	N/A	25 MPH	30 MPH	30 MPH	30' / 15'	250'
SAMPSON ST	N/A	N/A	25 MPH	N/A	25 MPH	25' / 12'	100'
28TH ST	NATIONAL AVE	HARBOR DR	30 MPH	27 MPH	30 MPH	30' / 15'	250'

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

40 0 40 80 FEET
1"=40'

811 Know what's below. Call before you dig.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC
Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

DESIGNED BY A. RIVERA	DATE 5/19	
DRAWN BY M. DOUGLAS	5/19	
CHECKED BY A. DODGE	5/19	
SANDAG PRJ MGR E. RODRIGUEZ	5/19	

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 3A FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T17 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

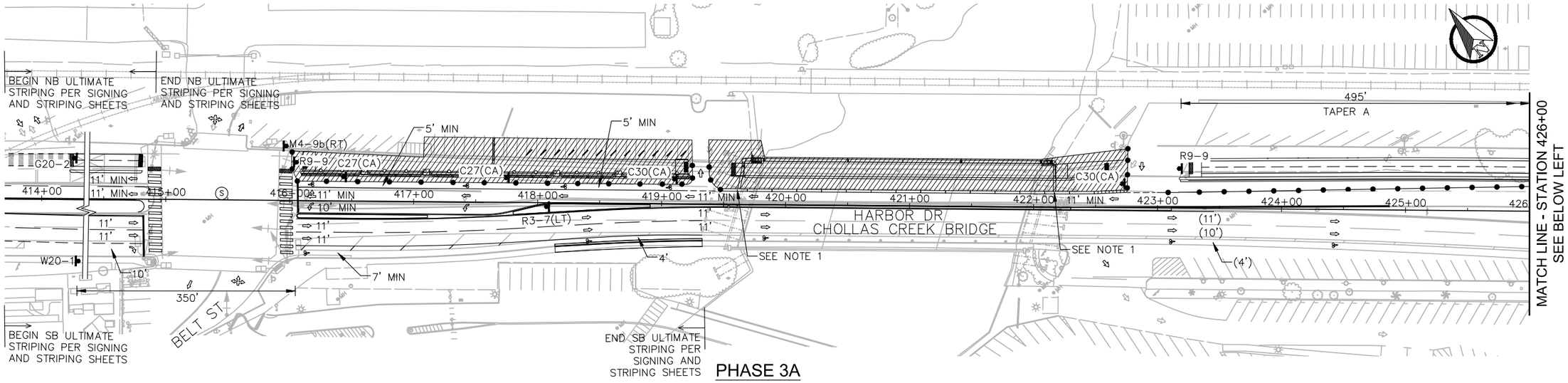
1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- T17 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 3:44:04 PM



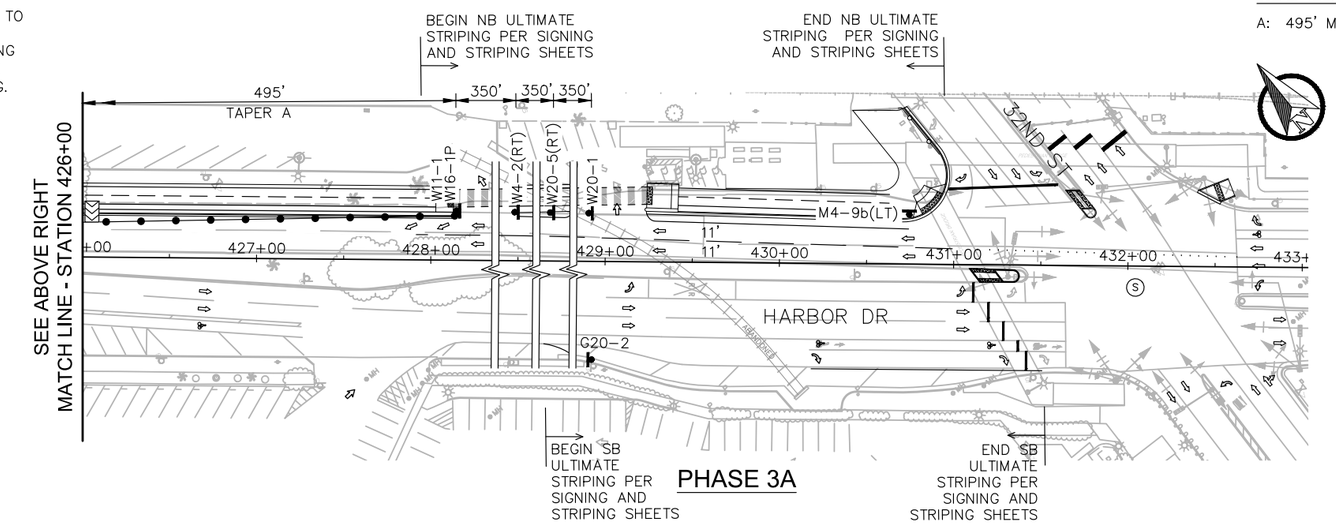
PHASE 3A

NOTES:

1) TEMPORARY RAILING (TYPE K) PLACED WITHIN 2'-0" FROM THE EDGE OF EXCAVATION SHALL BE AFFIXED TO THE PAVEMENT UTILIZING 1" DIAMETER PINS 2'-0" LONG DRIVEN INTO EXISTING AC. EXCAVATION SHORING (IF REQUIRED) SHALL BE DESIGNED TO ACCOMODATE TEMPORARY RAILING (TYPE K) AND VEHICLE LOADING.
2) GRIND OFF PHASE 3 TEMPORARY STRIPING AND REPLACE WITH PHASE 3A TEMPORARY STRIPING (AS SHOWN) OR ULTIMATE STRIPING PER SIGNING AND STRIPING SHEETS WHERE IDENTIFIED.

TAPER CALCULATIONS

A: 495' MERGE TAPER @ 45 MPH = L = (11*45) = 495'



PHASE 3A

WORK HOURS 8:00 AM TO 5:00 PM

WORK DAYS MONDAY THROUGH FRIDAY

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
(S)	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION

SPEED DATA TABLE

STREET	LIMIT 1	LIMIT 2	POSTED SPEED	85TH % SPEED (MPH)	TCP DESIGN SPEED (MPH)	DELINEATOR SPACING (TAPER/ CONFLICT)	SIGN SPACING
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NB HARBOR DR (S)	CESAR CHAVEZ PK	CITY LIMIT	40 MPH	44 MPH	45 MPH	45' / 22'	350'

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

40 0 40 80 FEET
1"=40'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 3A FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T18 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- T18 -D

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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Quality Infrastructure Corporation
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La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

5/2/2019 3:53:24 PM

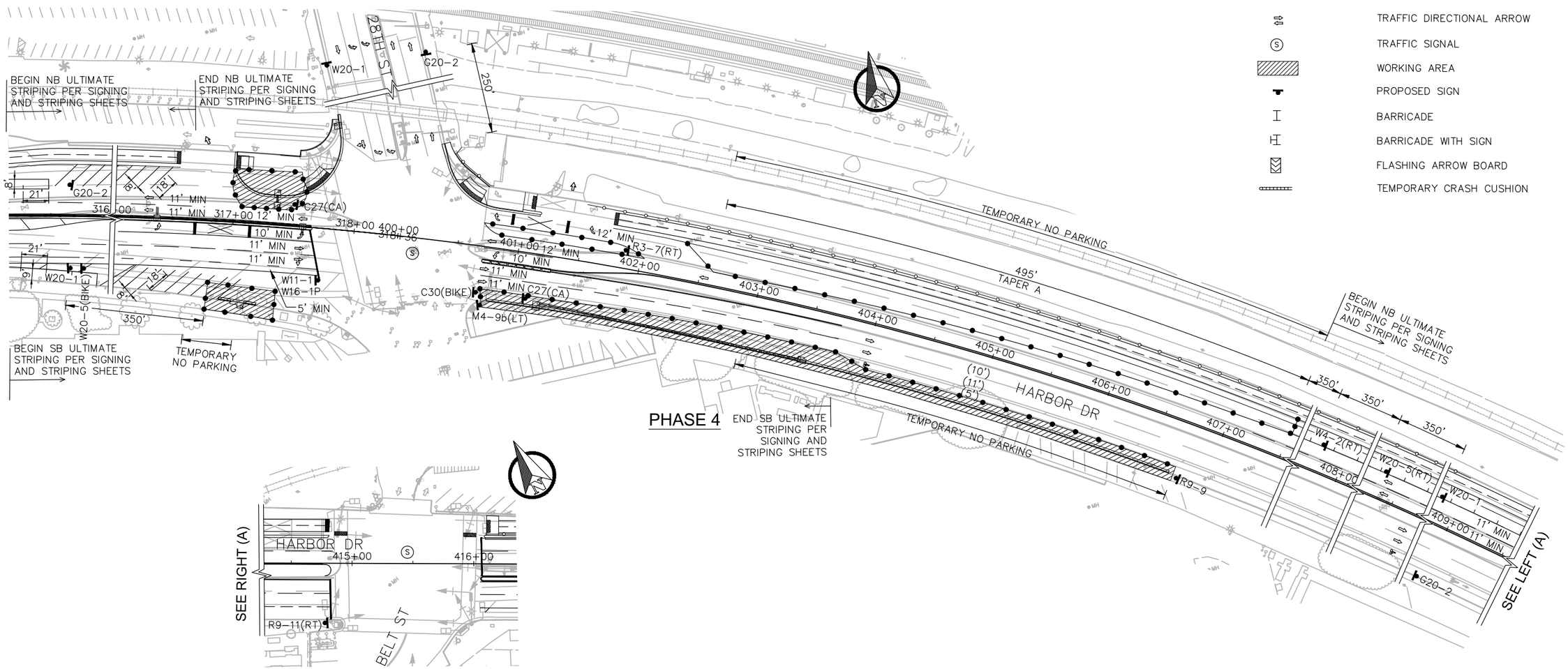
NOT FOR CONSTRUCTION – MAY 6, 2019

TAPER CALCULATIONS

A: 495' MERGE TAPER @ 45 MPH = L = (45*11) = 495'

LEGEND

XX' MIN	PROPOSED LANE WIDTH
(XX')	EXISTING LANE WIDTH
	TEMPORARY RAILING (TYPE K)
	DELINEATOR OR CONE
	TRAFFIC DIRECTIONAL ARROW
	TRAFFIC SIGNAL
	WORKING AREA
	PROPOSED SIGN
	BARRICADE
	BARRICADE WITH SIGN
	FLASHING ARROW BOARD
	TEMPORARY CRASH CUSHION



NOTES:

1) GRIND OFF PHASE 3/3A TEMPORARY STRIPING AND REPLACE WITH PHASE 4 TEMPORARY STRIPING (AS SHOWN) OR ULTIMATE STRIPING PER SIGNING AND STRIPING SHEETS WHERE IDENTIFIED.

WORK HOURS 9:00 PM TO 5:00 AM

WORK DAYS SUNDAY THROUGH THURSDAY

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

SPEED DATA TABLE

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28TH ST	NATIONAL AVE	HARBOR DR	30 MPH	27 MPH	30 MPH	30' / 15'	250'

40 0 40 80 FEET
1"=40'

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0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
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Exp. 12/31/19
CIVIL
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SCALE: AS SHOWN
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SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – PHASE 4 FOR:

BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T19 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES
XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____
INSPECTOR ____ DATE COMPLETED ____

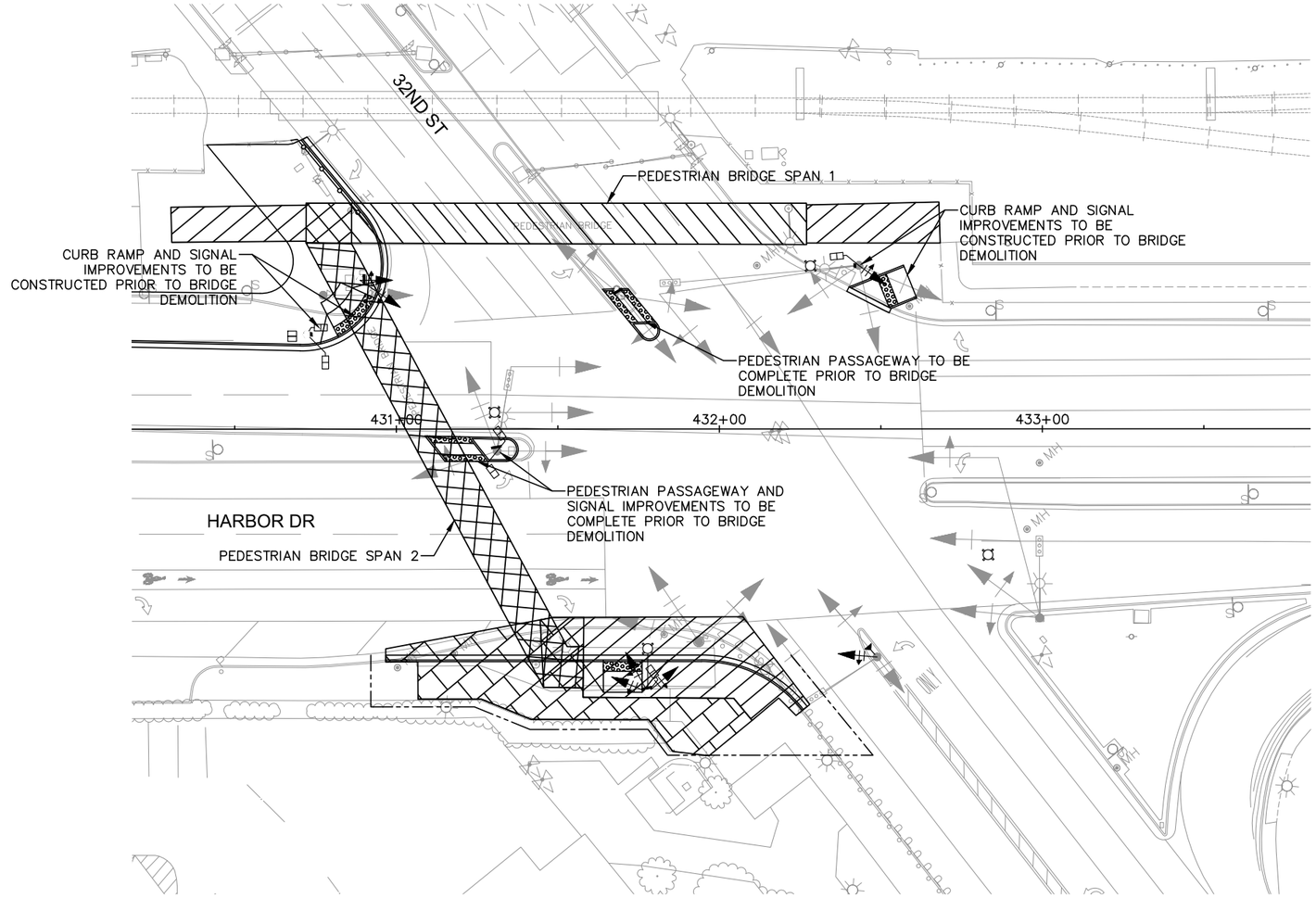
41370- T19 -D

NOT FOR CONSTRUCTION – MAY 6, 2019

5/2/2019 3:37:32 PM

LEGEND

- PHASE 1 – SPAN 1 REMOVAL. SEE SHEET T21.
- PHASE 2 – SPAN 2 REMOVAL. SEE SHEET T22.
- PHASE 3 – ABUTMENT/STAIRS REMOVAL. SEE SHEET T23.
- PHASE 4 – COMPLETE SURFACE IMPROVEMENTS. SEE SHEET T24.



PEDESTRIAN BRIDGE DEMOLITION - PHASING PLAN

20 0 20 40 FEET
1"=20'

811 Know what's below. Call before you dig.

WORK HOURS 9:00 PM TO 5:00 AM
WORK DAYS SUNDAY THROUGH THURSDAY

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
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DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – BRIDGE DEMOLITION PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T20 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES
XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

41370- T20-D

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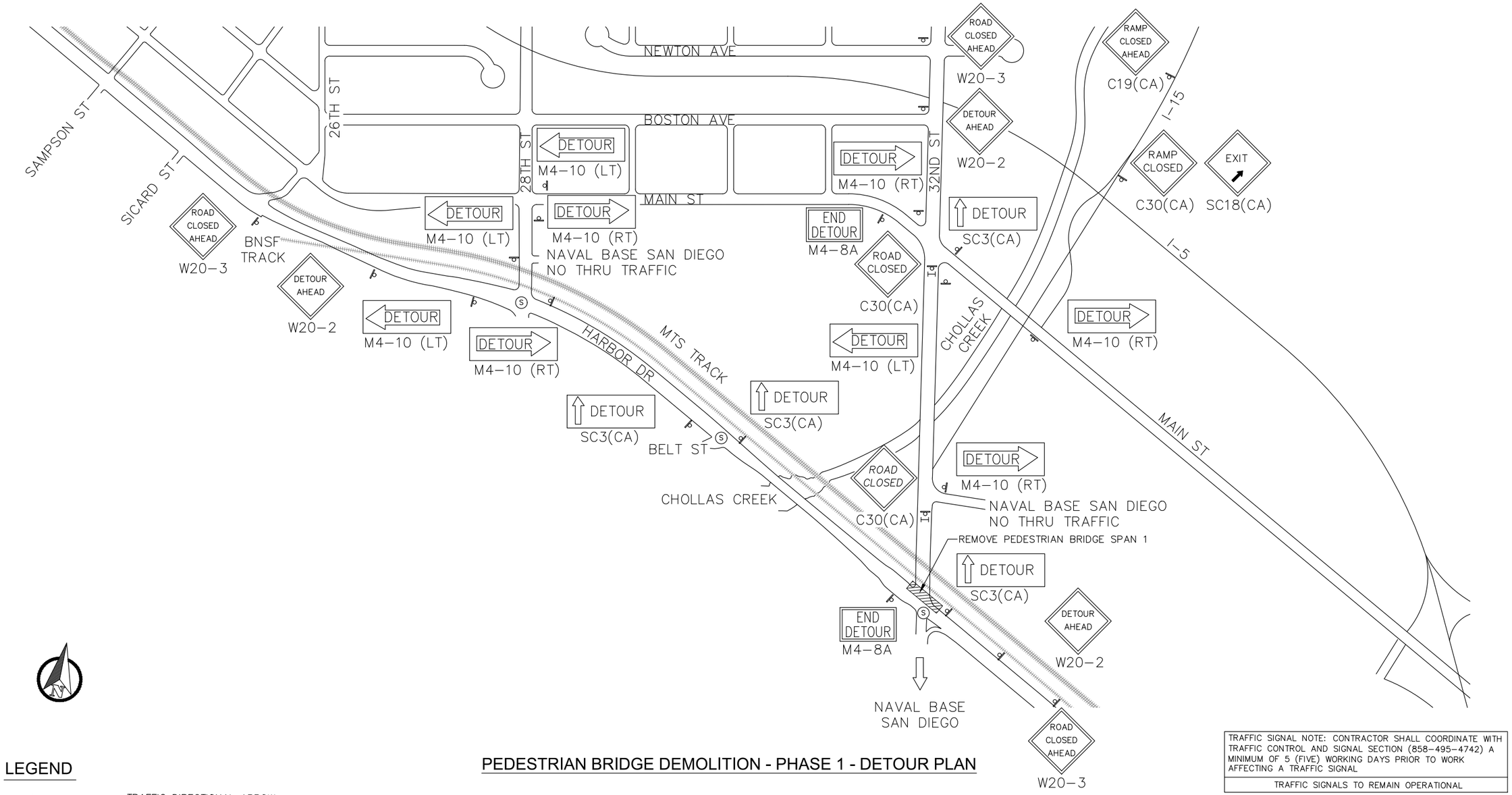
5/2/2019 3:36:25 PM



LEGEND

- TRAFFIC DIRECTIONAL ARROW
- TRAFFIC SIGNAL
- WORKING AREA
- PROPOSED SIGN
- BARRICADE

PEDESTRIAN BRIDGE DEMOLITION - PHASE 1 - DETOUR PLAN

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

WORK HOURS 9:00 PM TO 5:00 AM

WORK DAYS SUNDAY THROUGH THURSDAY

40 0 40 80 FEET

1"=40'

811 Know what's below. Call before you dig.

PUBLIC CONTRACT

TRAFFIC CONTROL – BRIDGE DEMOLITION PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T21 OF T24 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287 NAD83 COORDINATES

XXX-XXXX LAMBERT COORDINATES

CONTRACTOR ____ DATE STARTED ____

INSPECTOR ____ DATE COMPLETED ____

41370- T21-D

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

QIC

Quality Infrastructure Corporation
7777 Alvarado Road, Suite 606
La Mesa, CA 91942
619-741-9400
www.qualityinfrastructure.com

REGISTERED PROFESSIONAL ENGINEER
ALEC E. RIVERA
No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

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DRAWING NO. –

SHEET NO.

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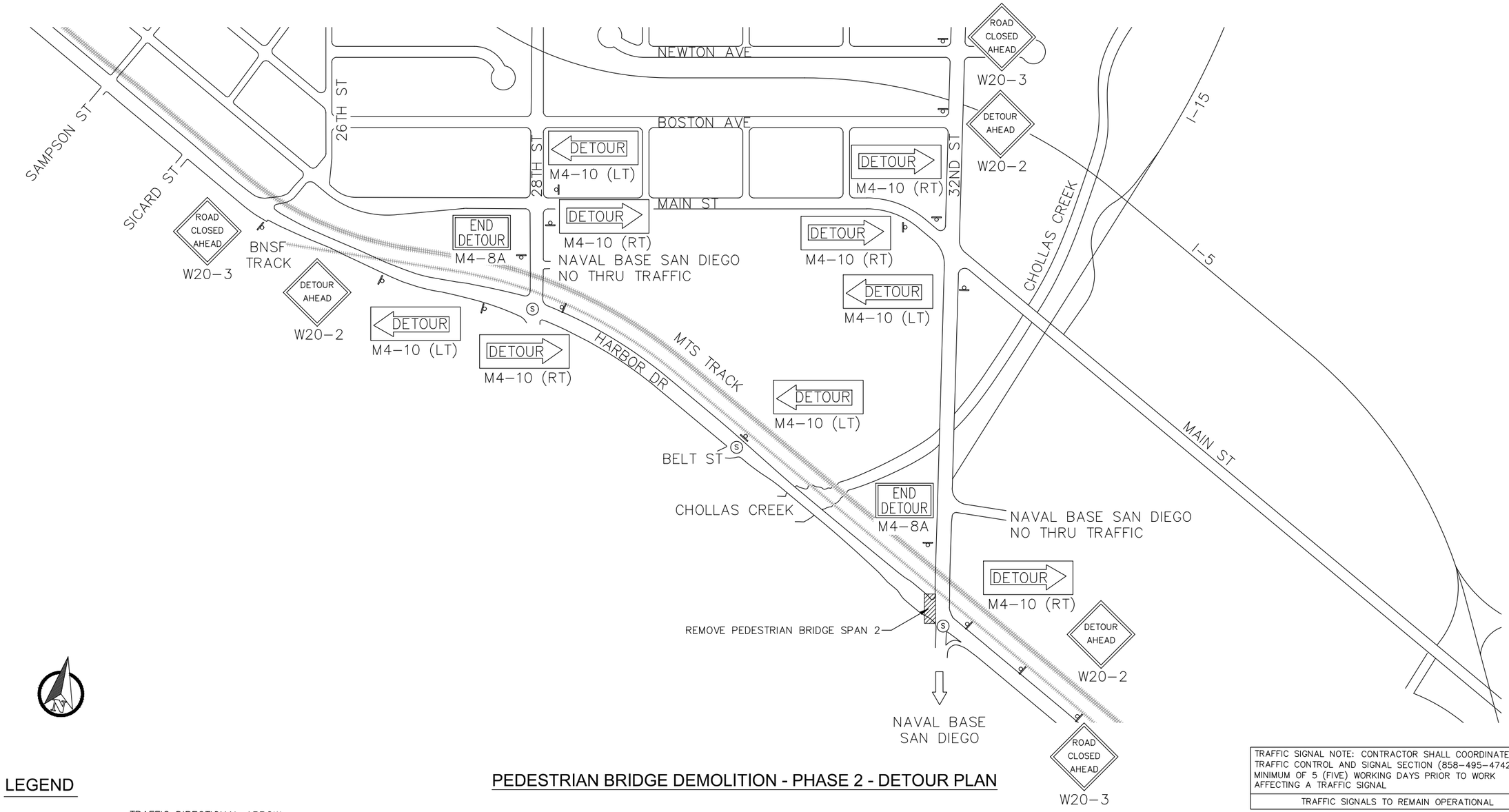

LEGEND

- TRAFFIC DIRECTIONAL ARROW
- TRAFFIC SIGNAL
- WORKING AREA
- PROPOSED SIGN

PEDESTRIAN BRIDGE DEMOLITION - PHASE 2 - DETOUR PLAN

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858-495-4742) A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL

TRAFFIC SIGNALS TO REMAIN OPERATIONAL

WORK HOURS 9:00 PM TO 5:00 AM

WORK DAYS SUNDAY THROUGH THURSDAY

40 0 40 80 FEET

1"=40'

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PUBLIC CONTRACT

TRAFFIC CONTROL – BRIDGE DEMOLITION PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T22 OF T24 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER — DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- T22-D

0 1/2 1

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ALEC E. RIVERA
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Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

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CONTRACT NO. –

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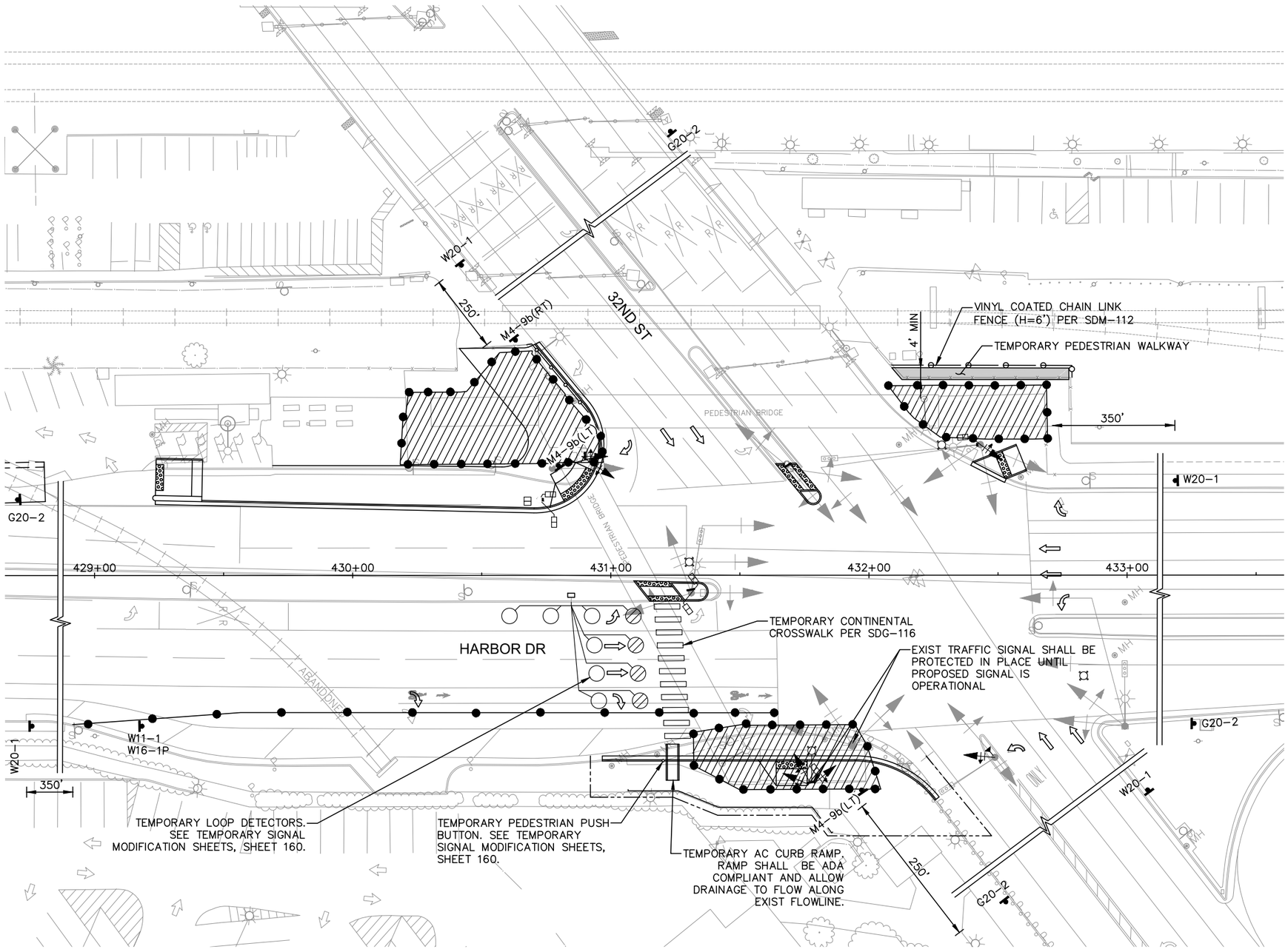

LEGEND

⇔	TRAFFIC DIRECTIONAL ARROW
Ⓢ	TRAFFIC SIGNAL
▨	WORKING AREA
⊢	PROPOSED SIGNAL
⊢	BARRICADE

20 0 20 40 FEET
1"=20'

PEDESTRIAN BRIDGE DEMOLITION - PHASE 3

WORK HOURS 8:00 AM TO 5:00 PM
WORK DAYS MONDAY THROUGH FRIDAY

0 1/2 1
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No. 87936
Exp. 12/31/19
CIVIL
STATE OF CALIFORNIA

		DATE
DESIGNED BY	A. RIVERA	5/19
DRAWN BY	M. DOUGLAS	5/19
CHECKED BY	A. DODGE	5/19
SANDAG PRJ MGR	E. RODRIGUEZ	5/19

SANDAG

SCALE: AS SHOWN
CONTRACT NO. –
DRAWING NO. –
SHEET NO.

PUBLIC CONTRACT

TRAFFIC CONTROL – BRIDGE DEMOLITION PLANS FOR:
BAYSHORE BIKEWAY
BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T23 OF T24 SHEETS

PROJECT NO.
V.T.M.

FOR CITY ENGINEER			DATE	
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ORIGINAL	QIC			
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LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

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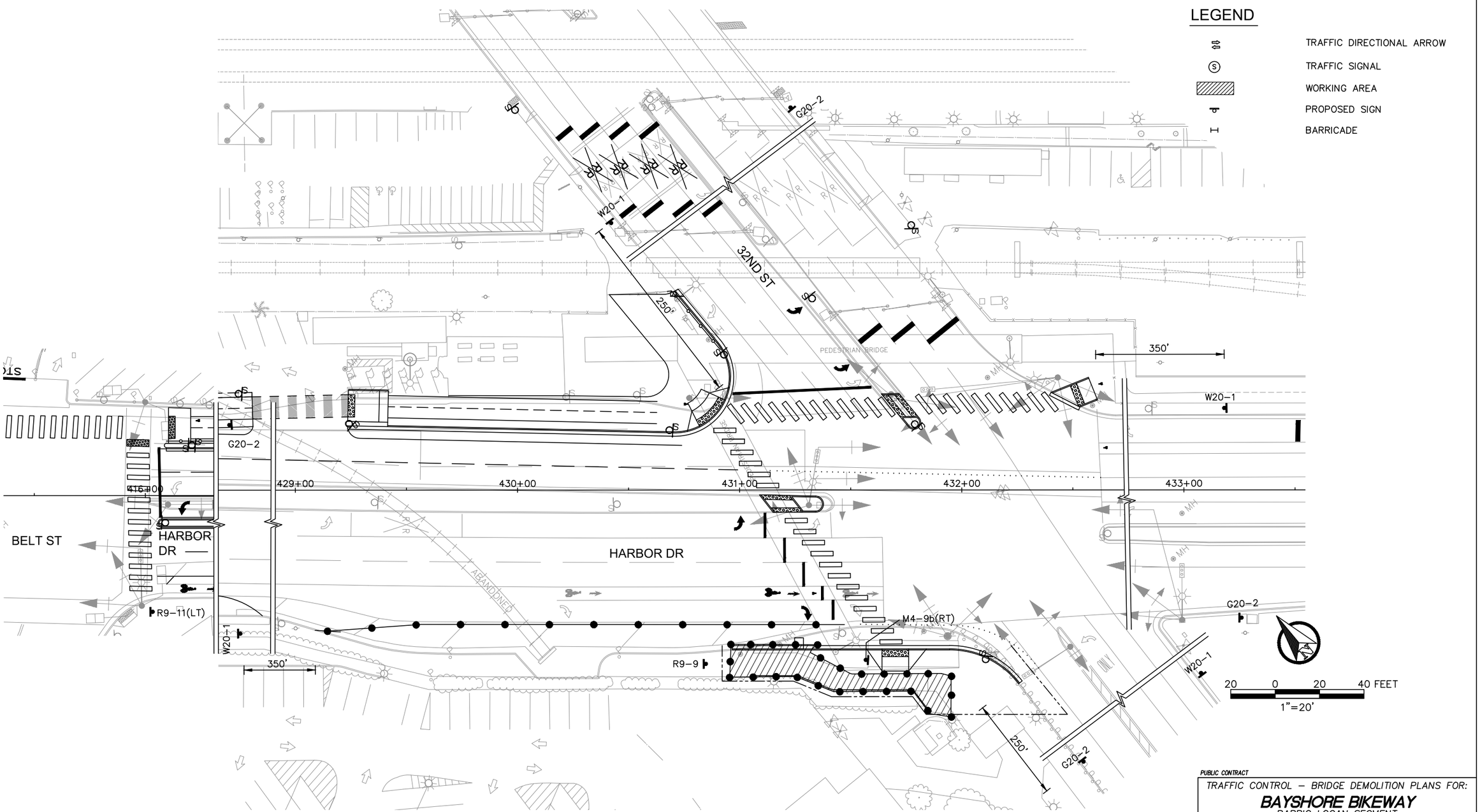

PEDESTRIAN BRIDGE DEMOLITION - PHASE 4

PUBLIC CONTRACT

TRAFFIC CONTROL – BRIDGE DEMOLITION PLANS FOR:

BAYSHORE BIKEWAY

BARRIO LOGAN SEGMENT

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET T24 OF T24 SHEETS

PROJECT NO.

V.T.M.

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	QIC			
AS-BUILTS				

1834-6287
NAD83 COORDINATES

XXX-XXXX
LAMBERT COORDINATES

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

41370- T24-D

WORK HOURS 8:00 AM TO 5:00 PM

WORK DAYS MONDAY THROUGH FRIDAY

0 1/2 1

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