

IMPERIAL COUNTY TRANSPORTATION COMMISSION (ICTC)

1503 N. Imperial Ave. Suite 104, El Centro, Ca. 92243
760-592-4494, FAX 760-592-4410

Date: October 27, 2025
To: Prospective Respondents
From: David Aguirre, Executive Director
REF: Architectural, Environmental and Engineering Services for the Imperial Valley
Transit Administration, Operations and Maintenance Facility
Request for Proposals (RFP) **ADDENDUM #2**

The following are clarifications to date based upon questions posed by potential respondents.

1. Is there an ALTA Survey available for review?

ICTC has not prepared an ALTA Survey for the project site. ICTC was able to obtain an exhibit from Chicago Title Company illustrating the plottable easements. Said exhibit is made a part of this addendum. ICTC is working with a surveying consultant to prepare an ALTA Survey. The ALTA Survey is anticipated to be completed prior to the award of contract.

2. What should we assume in terms of the extents of offsite street improvements, including both roadways and utilities to serve the project?

ICTC intends to fully utilize the anticipated offsite improvements within ICTC property boundaries. Offsite infrastructure may include extended roadway infrastructure, sidewalks, bike lanes, curb and gutter, driveway entrances, stormwater, water and sewer infrastructure etc. Anticipated improvements are expected for Waterman Avenue and Cruickshank Drive.

It should be noted that per the city of El Centro Circulation Element, Waterman Avenue is planned as a 4-Lane Arterial, while Cruickshank Drive is planned as a 2-Lane Arterial. The awarded consultant will need to complete the design and support services for the offsite infrastructure (within ICTC property boundaries) as part of this effort.

<https://www.cityofelcentro.org/1185/Planning-Documents>

The city of El Centro recently approved an amendment to the roadway layout to Waterman Avenue between Cruickshank Drive and Bradshaw Avenue. The same layout is anticipated to be utilized for the off-site design of Waterman Avenue associated with this project. The amended layout includes the addition of bicycle lanes, median island striping and similar items.

Communication and coordination with the city of El Centro is critical in the development of offsite infrastructure in addition to determining impacts to city water, sewer and stormwater infrastructure and capacity because of the facility's anticipated demand.

The amended Waterman Avenue layout is provided as part of this addendum.

3. Will ICTC coordinate and facilitate stakeholder outreach with the support of documents provided by the consultant, or will the consultant be responsible for coordinating and facilitating outreach?

It is expected that the consultant will lead the outreach efforts. ICTC will assist with coordination and will participate in the outreach efforts to offer support to the consulting team.

4. Will stakeholder outreach documentation need to be presented and communicated in both English and Spanish?

Yes, all outreach documentation will need to be prepared in English and Spanish. ICTC will provide support to the consulting team during outreach presentations.

5. Will the offsite improvements include any improvements to existing adjacent bus stops or the addition of new bus stops?

The offsite improvements will not include any improvements to existing adjacent bus stops. It is not anticipated that ICTC will be adding any new bus stop infrastructure near the new facility.

6. Are there any master planned public improvements required of the City of El Centro to be implemented as part of this project?

ICTC is not aware of any master planned public improvements to the area outside of those associated with Waterman Avenue and Cruickshank Drive as noted within the city circulation element and the adjustments to Waterman Avenue as provided within the attached the City of El Centro Jacaranda Gardens Improvement Plans specifically Sheet 5.

7. We request clarification on the statement regarding "Language in the Geotechnical Report that prohibits the use of a separate Geotechnical Consultant during construction efforts is prohibited." It is our understanding that it is industry standard to include language in a

geotechnical report that recommends that the geotechnical firm be retained to provide construction testing and inspection services to the project. It does not prohibit the “owner” from using a different geotechnical firm to provide the testing services as long as the geotechnical firm selected by the “owner” assumes the responsibility (and liability) of the geotechnical aspects of the project.

ICTC has previously encountered concerns from federal funding agencies pertaining to the recommended language noted by Geotechnical Engineering Firms within Geotechnical Reports. It was communicated that the language restricts the ability of other geotechnical firms from competing and securing opportunities during the construction phase of the project. ICTC will work with our federal funding partners during the construction phase to remedy this issue for this project.

Therefore, ICTC amends Section 5, Item 13 – Task – Site Civil Design as follows:

Site data and geotechnical investigation. The Consultant will provide a geotechnical survey of the Transit Facility. ~~(Language within the Geotechnical Report that prohibits the use of a separate Geotechnical Consultant during construction efforts is prohibited).~~ At a minimum, surveying shall locate physical features such as sidewalks, trees, ...

8. We did not find language in the RFP that prohibits the Geotechnical Consultant that provides the Geotechnical Investigation Report for the design consultant team during the design phase of the project from working on the construction project as a 3rd Party Material Testing & Inspection Laboratory. Please confirm the Geotechnical Consultant will not be excluded from the construction testing aspects of the project.

The Geotechnical Consultant who prepares the Geotechnical Investigation Report is always retained through the prime design engineering consultant to assist with questions or clarifications to the project design during construction. The Geotechnical Consultant is not excluded from the construction testing aspects of the project, however, ICTC will issue a separate RFP for construction related material testing and laboratory inspections during the construction phase of the project to which a separate geotechnical consultant may be selected. ICTC encourages fair and equal opportunities for all consulting firms interested in participating in ICTC projects.

9. Would ICTC consider extending the due date for proposals?

Section 2 – Item 2.3 – Proposal Submittance is hereby amended as follows:

The hard copies and USB drive shall be mailed, or hand delivered to the Imperial County Transportation Commission, 1503 N. Imperial Avenue, Suite 104, El Centro, CA, and received prior to 3:00 PM, on December 1, 2025.

Any proposals received prior to the time and date specified for the Proposal Due Date in the Schedule of Events above may be withdrawn or modified by written request of the Consultant. To be considered, however, the modified Proposal must be received prior to 3:00 P.M., December 1, 2025.

The amended anticipated date of award/contract execution is hereby amended to January 28, 2026, or February 25, 2026.

10. Regarding LEED Silver Certification reference in Section 5 - Scope of Work, item 7, bullet #6. Is it ICTC's intent to actually certify the project or just design to the intent of LEED silver certification? The process of certification involves additional professional services and construction soft costs for management of this process.

It is ICTC's intent to design the facility to incorporate LEED Silver components, framework and benefits. ICTC is not currently anticipating certifying the project. ICTC is downgrading its goal to design to LEED Silver to LEED Certified.

11. Please confirm the 18 - 36 month schedule reference in Section 5, item 8, is for the design and permitting process, and does not include the construction duration of the project.

ICTC confirms that the proposed 18-36 month schedule is specifically for the design and permitting process and does not include construction efforts.

12. Please confirm Construction Management services will be provided by a third party. Typical construction support services (construction admin) by the design team are understood to be included in the project scope. Typical for a project of this size, the owner hires a CM firm to facilitate the bidding and construction phases in collaboration with the design team.

ICTC confirms that Construction Management Services will be provided by a separate third party. ICTC will issue a separate Request for Proposals (RFP) for the effort at a later time.

The consulting team selected for this project will be responsible for providing the services outlined in Section 5 – Item 22 – Technical Construction Support. Such services include but are not limited to: Assisting ICTC with responding to questions during the construction bidding process pertaining to the project design and specifications.

13. Does ICTC have any design or documentation standards that we should be aware of? Does ICTC have any CAD standards the awarded team is to adhere to?

ICTC has previously prepared a Bus Stop Design and Safety Guidelines Handbook. The document contains some general standards; however, the document is primarily tailored towards bus stop improvements. The document is located within ICTC's website at the following location: <https://www.imperialctc.org/publications-and-reports/transit-and-non-motorized>

Off-Site Improvements inclusive of applicable On-Site Improvements should adhere to the city of El Centro Design and Construction Standards. More information can be found at the following location. <https://www.cityofelcentro.org/1306/Construction-Standards>

14. Are new signalized intersections expected to be included as a part of the project?

ICTC is not anticipating any signalized intersections associated with the project.

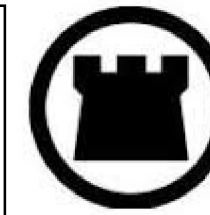
15. Amendments to the Proposed Agreement

ICTC will discuss and consider proposed amendments to the agreement upon selection of the consultant.

16. ICTC has placed the Microsoft Excel/Word Version of Attachment B – Cost Proposal Form on the ICTC website for consultant use.

17. Section 2 – Item 2.9 Equal Opportunity – The project specific Disadvantaged Business Enterprise (DBE) goal of 14% for the project has been amended to 0%. The adjustment has been implemented due to the recent United States Department of Transportation (USDOT) Interim Final Rule. The components of the Interim Final Rule are effective as of October 3, 2025. ICTC continues to support and encourage the use of all qualified consulting firms for the project.

Thank you for your interest in the bid process. Should there be any further questions, please email davidaguirre@imperialctc.org.



CHICAGO TITLE
COMPANY

ORDER NO.

7102500645

06/17/2025

APN

064-450-076-000

Legend



PIQ

Ease for Public Road recorded
05/06/1905 Bk310 Pg302 Deeds - Item 6
(Unlocatable)



Ease for Drainage Ditch recorded
12/01/1924 Bk68 Pg123 OR - Item 7

Ease for Sewer Line recorded
04/08/1937 Bk484 Pg120 OR - Item 8
(Unlocatable)



Ease for Rights of Way recorded
Bk9 Pg71 License Survey Maps - Item 9

Ease for Power Line & Necessary recorded
08/02/1939 Bk526 Pg575 OR - Item 10
(Unlocatable)



Ease for Canal, Telephone & Electric
Power Lines recorded
09/22/1939 Bk534 Pg423 OR - Item 11

Ease for Water Pipe recorded
10/24/1955 # 35 Bk922 Pg30 &
36 Bk922 Pg32 OR - Item 12
(Unlocatable)

Ease for Construction, Installation, Maintenance,
Service & Repair of Underground Sewer Mains recorded
12/13/1957 # 9 Bk981 Pg329 OR - Item 13
(Unlocatable)

Ease for Public Street recorded
11/05/2001 # 2001-024820 Bk2089 Pg703 OR - Item 15
(Unlocatable)

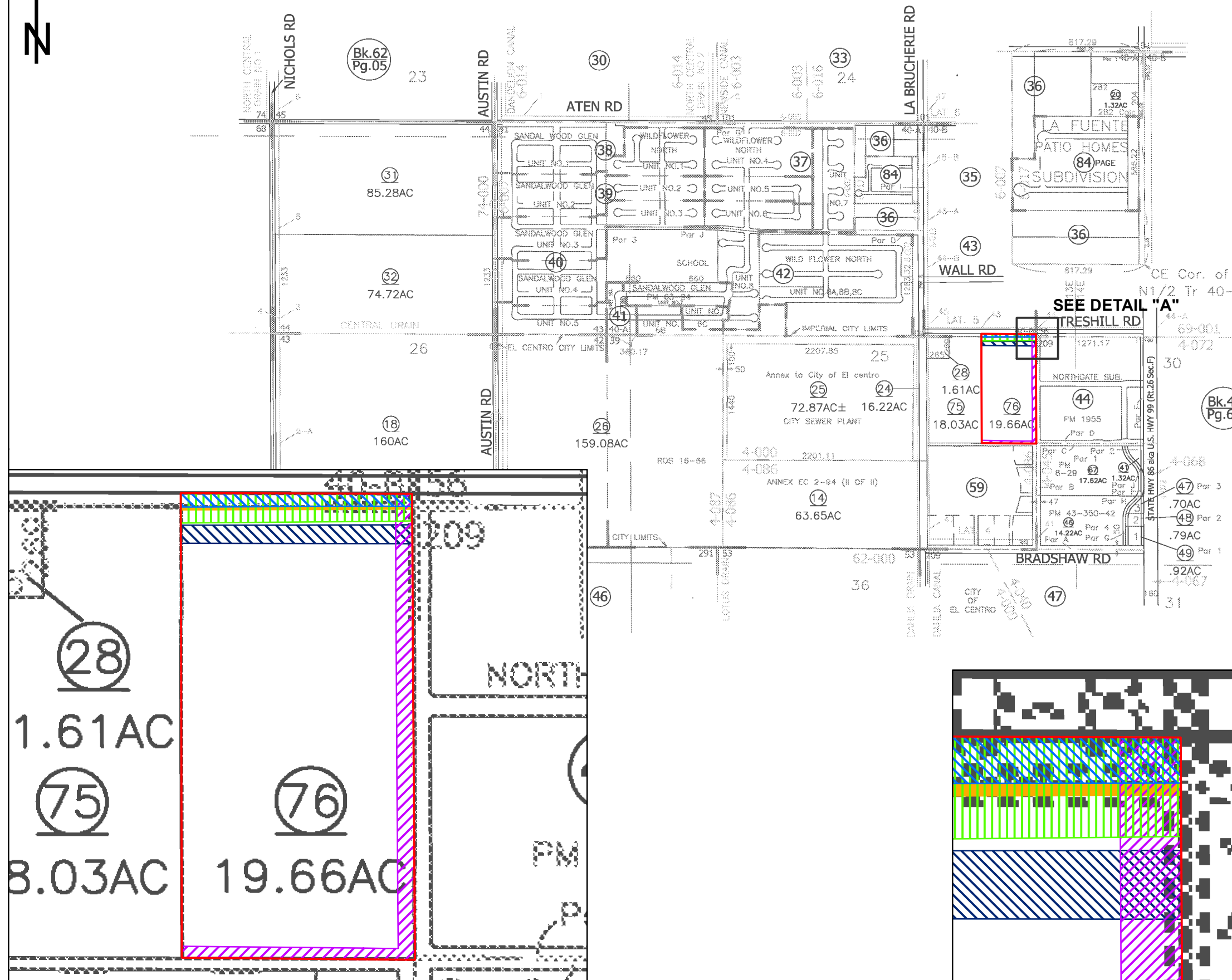


Ease for Road recorded
Parcel Map # 43-350-29 - Item 16



Ease for Transmission & Distribution of Electricity recorded
08/19/2022 # 2022017914 OR - Item 20

This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.



DETAIL

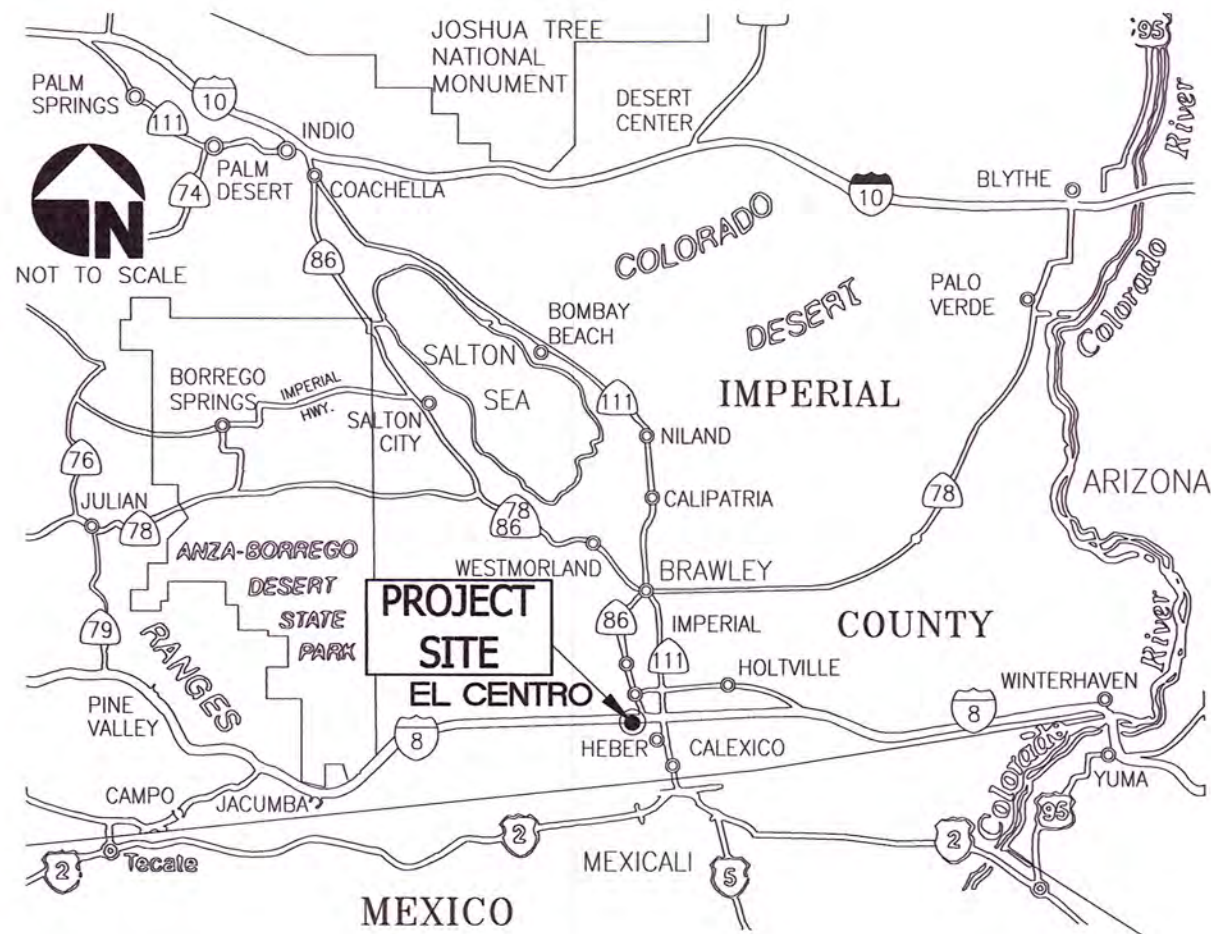
DETAIL "A"

JACARANDA GARDENS PROJECT AHSC GRANT

BIKE LANES AND STREET IMPROVEMENTS

EL CENTRO, CA

VICINITY MAP



DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THE 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 CENTRO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

CARLOS BELTRAN, P.E.
DYNAMIC CONSULTING ENGINEERS, INC
2415 IMPERIAL BUSINESS PARK DR. SUITE B
IMPERIAL, CA 92251
(760) 545-0162



8/7/25
DATE

NOTE TO CONTRACTOR

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

ENGINEER'S NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

NOTE:
ANY REFERENCES TO SPECIFIC MANUFACTURERS OR MODELS ARE FOR DESCRIPTIVE PURPOSES ONLY. CONTRACTORS ARE ALLOWED TO PROVIDE APPROVED EQUAL MATERIALS OR PRODUCTS SUBJECT TO ENGINEER'S APPROVAL.

PROJECT INFORMATION

PROJECT OWNER

CITY OF EL CENTRO
1275 MAIN STREET
EL CENTRO, CA 92243
PHONE: 760-337-5182
EMAIL: Acampos@cityofelcentro.org

ENGINEER

DYNAMIC CONSULTING ENGINEERS, INC.
2415 IMPERIAL BUSINESS PARK DR, SUITE B
IMPERIAL, CA 92251
TEL (760) 545-0162
FAX (760) 545-0163

AGENCY CONTACTS

CITY OF EL CENTRO

PUBLIC WORK DEPARTMENT
ABRAHAM CAMPOS, PE
1275 MAIN STREET
EL CENTRO, CA 92243
PHONE: 760-337-5182
EMAIL: Acampos@cityofelcentro.org

CITY OF EL CENTRO

GENERAL SERVICES DEPARTMENT
WATER, SEWER AND GEN. SERVICES
PHONE: 760-337-4505

IMPERIAL IRRIGATION

ENERGY DEPARTMENT
333 E. BARIOMI BLVD.
IMPERIAL, CA 92251
TEL (760) 339-9280
FAX (760) 339-9471

GAS COMPANY

ENRIQUE CUEVAS
602 E. ROSS ROAD, SC8054
EL CENTRO, CA 92243-1515
PHONE: 760-370-5812
FAX: 760-352-5721

TELEPHONE

AT&T
CARLOS SOTO
760-554-7214
EMAIL: cs6198@att.com

CITY COUNCIL

SONIA CARTER

JOHN "MARTY" ELLET

SYLVIA MARROQUIN

CLAUDIA CAMARENA

MIKE CRANKSHAW

MAYOR

MAYOR PRO-TEM

COUNCIL MEMBER

COUNCIL MEMBER

COUNCIL MEMBER

SHEET INDEX

1. TITLE SHEET, VICINITY MAP AND GENERAL NOTES
2. INDEX SHEET
3. WATERMAN AVE. AND VILLA WAY CLASS III BIKE LANE
4. WATERMAN AVE. STREET IMPROVEMENTS STA 19+17 TO STA 27+00
5. WATERMAN AVE. STREET IMPROVEMENTS STA 27+00 TO STA 39+71
6. BRADSHAW AVE. STREET IMPROVEMENTS STA 00+00 TO STA 15+50
7. BRADSHAW AVE. STREET IMPROVEMENTS STA 15+50 TO STA 27+00
8. 12TH STREET DEMOLITION PLAN STA 2+00 TO STA 9+35
9. 12TH STREET IMPROVEMENTS PLAN STA 2+00 TO STA 9+35
10. 12TH STREET STRIPING PLAN
11. DETAILS
12. DETAILS
13. DETAILS
14. BLOW-UP DETAILS

SYMBOLS

ITEM NO.	ITEM	SYMBOL
1	STREET R/W LINE	—
2	STREET C/L	—
3	CABLE TV	— CABLE —
4	DRAIN (FIELD)	—
5	EX. EDGE OF ASPHALT	—
6	PROP. EDGE OF ASPHALT	—
7	EX. ASPHALT CONCRETE	—
8	PROP. ASPHALT CONCRETE	—
9	EDGE OF DIRT	—
10	CONCRETE SECTION	—
11	ROAD STRIPING	—
12	CONTOURS - MAJOR	—
13	CONTOURS - MINOR	—
14	CONTROL	△ N-17
15	SPOT ELEVATION	× 961.44
16	BENCHMARK (SEE DESCRIPTION)	⊕ 967.06±
17	BORROW PIT ELEVATIONS	—
18	PROPOSED BORROW PIT	—
19	LIMIT OF RECONSTRUCTION	—

BENCHMARK:

THE BENCHMARK USED HEREON IS THE COUNTY OF IMPERIAL BENCHMARK "N-90" BEING A BRASS CAP RESET IN 1995 AT THE SOUTHWEST CORNER OF THE HEADGATE FOR THE UNDERGROUND DAHLIA CANAL ON THE EAST SIDE OF LA BRUCHERIE AND THE SOUTH SIDE OF THE RAILROAD TRACKS.

ELEVATION = 964.32' (NAVD 88 +1000')

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS S89°53'57"E WHICH IS THE BEARING OF SOUTH LINES OF PARCEL 4 OF PARCEL MAP NO. 43-350-29 ACCORDING TO THE PARCEL MAP RECORDED IN BOOK 12, PAGE 6 OF PARCEL MAPS IN THE OFFICE OF THE COUNTY IMPERIAL COUNTY RECORDER.

SOILS ENGINEER

ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED SOILS ENGINEER AND IN CONFORMANCE WITH THE RECOMMENDATIONS AS OUTLINED IN THE SOILS REPORTS ENTITLED "PAVEMENT STRUCTURAL SECTION REPORT.

LCI REPORT NO. LE24052, DATED APRIL 8, 2024.

LANDMARK CONSULTANTS, INC
780 N. 4TH STREET
EL CENTRO, CA 92243
(760) 370-3000

THIS REPORT SHALL BE CONSIDERED AS PART OF THESE PLANS.

SOILS ENGINEER STATEMENT

A SOILS REPORT HAS BEEN PREPARED FOR THIS PROJECT BY LANDMARK CONSULTANTS, INC. OF EL CENTRO CALIFORNIA. PLANS HAVE BEEN REVIEWED BY THE SOILS ENGINEER FOR CONFORMANCE TO THE GEOTECHNICAL SITE CONSTRAINTS AND RECOMMENDATIONS INCLUDED IN SAID REPORT IDENTIFIED AS LE24052 DATED 4/8/2024.

8/11/2025
DATE

REVIEWED BY:
PETER LaBRUCHERIE, PRINCIPAL ENGINEER
RCE: 84812

ABBREVIATIONS

AGG.	AGGREGATE	MIN	MINIMUM
APPROX.	APPROXIMATE	N	NORTH
Asph.	ASPHALT	N/O	NORTH OF
B.M.	BENCHMARK	N.T.S.	NOT TO SCALE
CL	CENTERLINE	DHE	OVER HEAD ELECTR
CLR	CLEARANCE	PROP.	PROPOSED
CONC.	CONCRETE	R/W OR ROW	RIGHT-OF-WAY
E	EAST	RD	ROAD
E/O	EAST OF	STA.	STATION
E.P.	EDGE OF PAVEMENT	S	SEWER
EL. OR ELEV.	ELEVATION	SD	STORM DRAIN
EX. OR EXIST.	EXISTING	T.P.	TOP OF PAVEMENT
F.L.	FLOW LINE	THK.	THICK
F.S.	FINISH SURFACE	TYP	TYPICAL
L.F.	LINEAL FEET	W	WATER
MAX	MAXIMUM	W/O	WEST OF
←	DIRECTION OF FLOW		

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS DR. STE B, IMPERIAL CA 92251
TEL (760) 545-0162 FAX (760) 545-0163
www.dynamicconsultingengineers.com

UNAUTHORIZED CHANGES AND USES :

Design Engineer will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert
Call: TOLL FREE

811

TWO WORKING DAYS BEFORE YOU DIG.

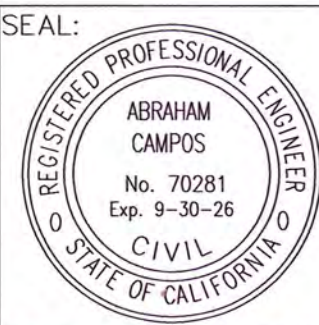
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APPROVED FOR CONSTRUCTION:

ABRAHAM CAMPOS, P.E. No. 70281
CITY ENGINEER

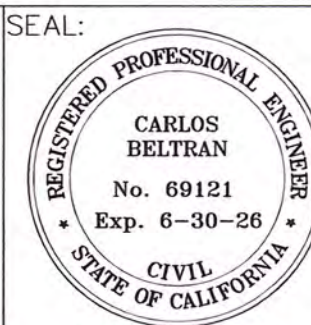
8/13/25
DATE



ENGINEER OF WORK:

CARLOS BELTRAN, P.E. No. 69121

8/7/25
DATE



DRAWN BY: DB

CHECK BY: CB

DATE: 7/29/25

PROJECT:

FILE NAME:

LAST REVISED:

PROJECT DESCRIPTION:

JACARANDA GARDENS PROJECT
AHSC GRANT
OFF SITE IMPROVEMENTS
IN THE CITY OF EL CENTRO

SHEET TITLE:

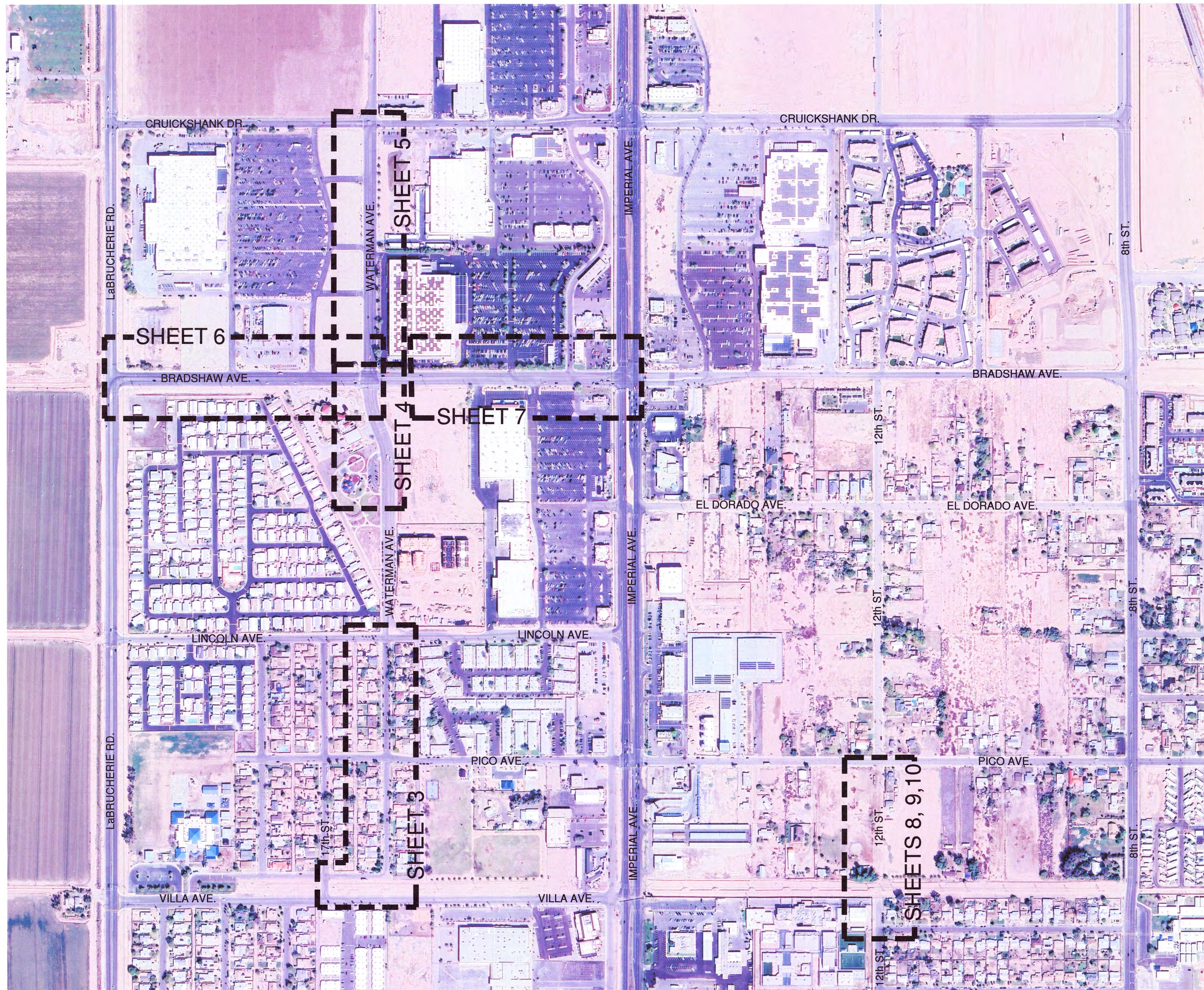
TITLE SHEET

SHEET:

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OF

14



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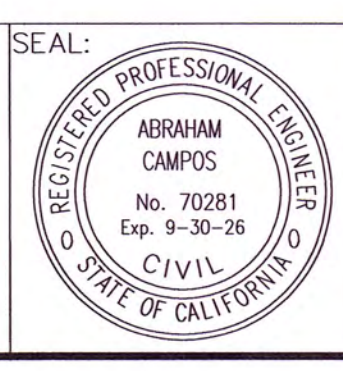
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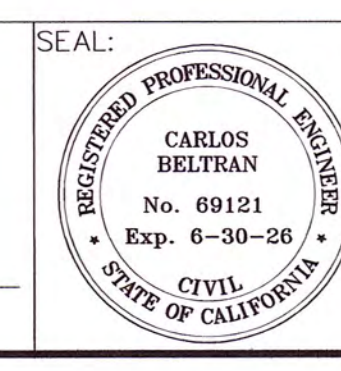
APPROVED FOR CONSTRUCTION:

ABRAHAM CAMPOS, P.E. No. 70281
CITY ENGINEER
DATE 8/7/25



ENGINEER OF WORK:

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DATE 8/7/25

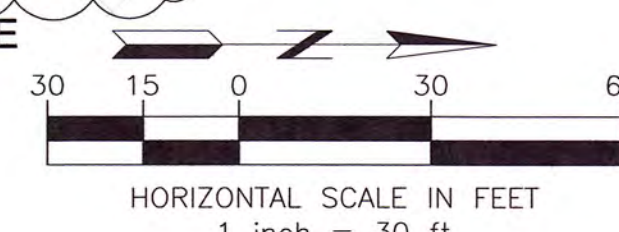
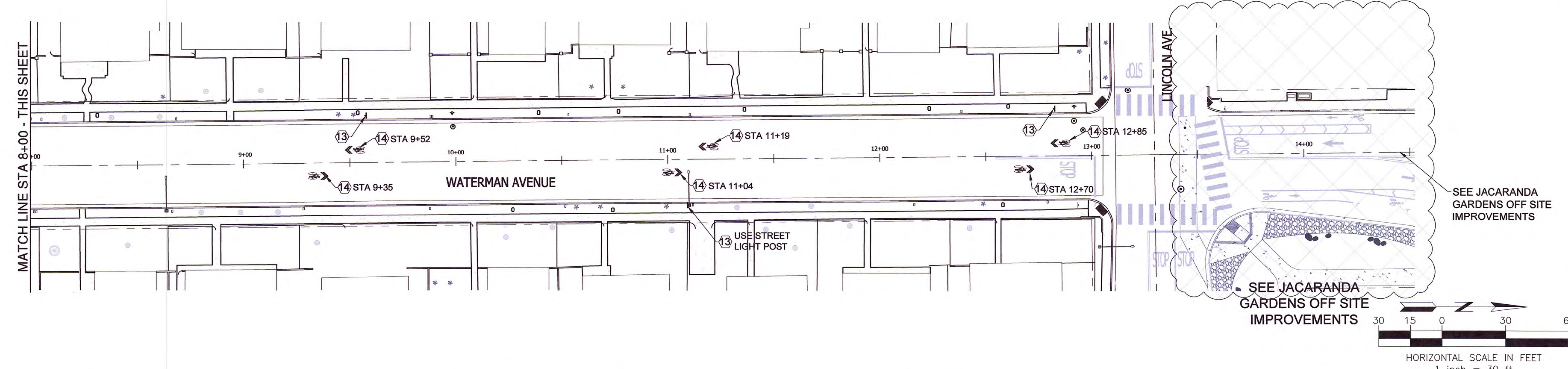
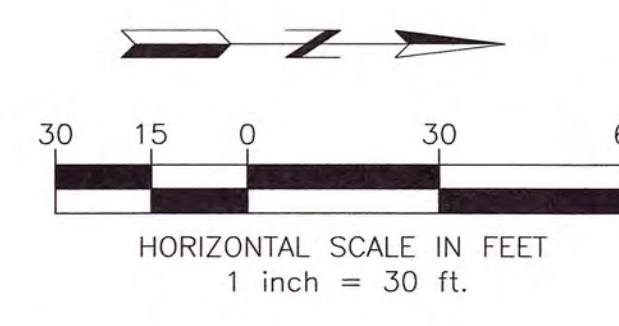
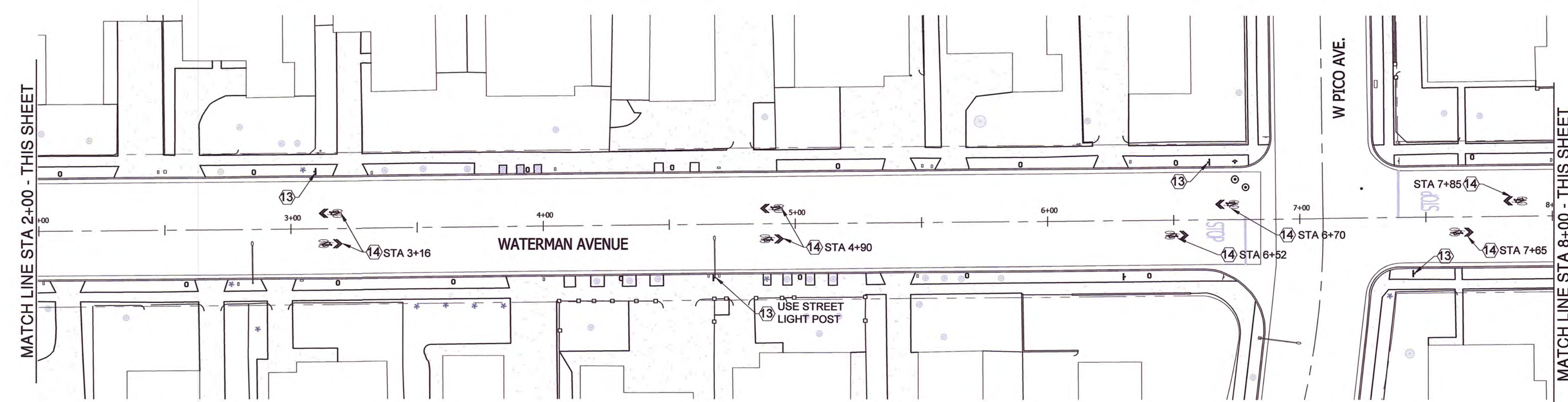
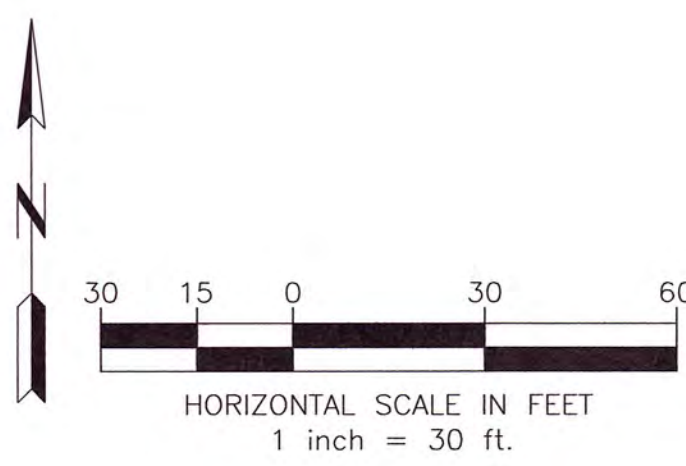
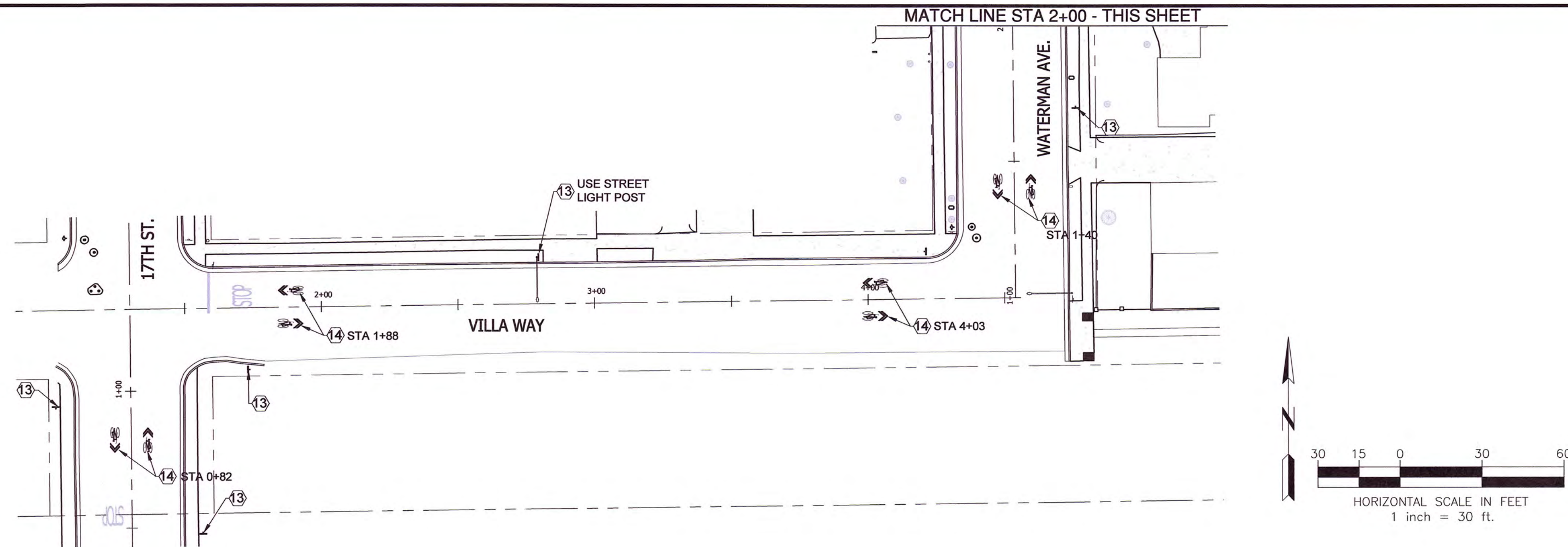


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SHEET TITLE:
INDEX SHEET

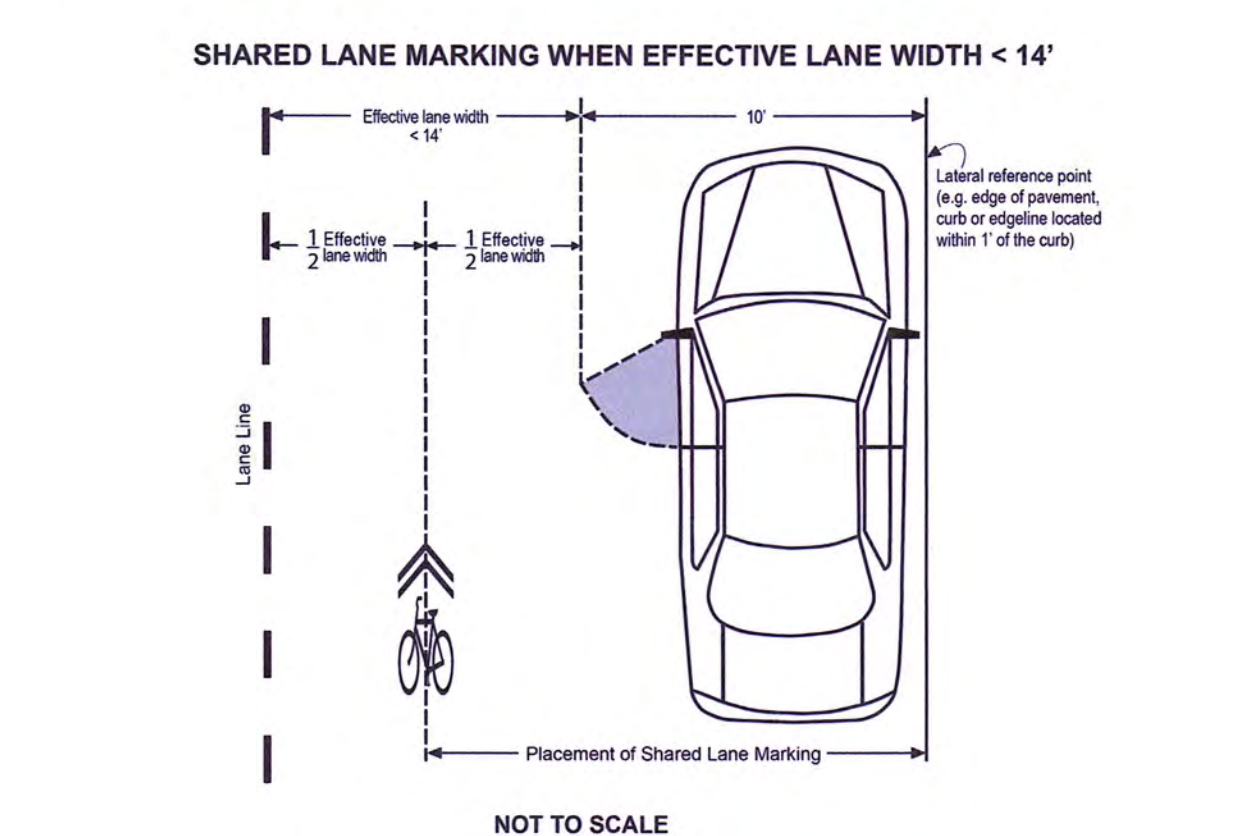
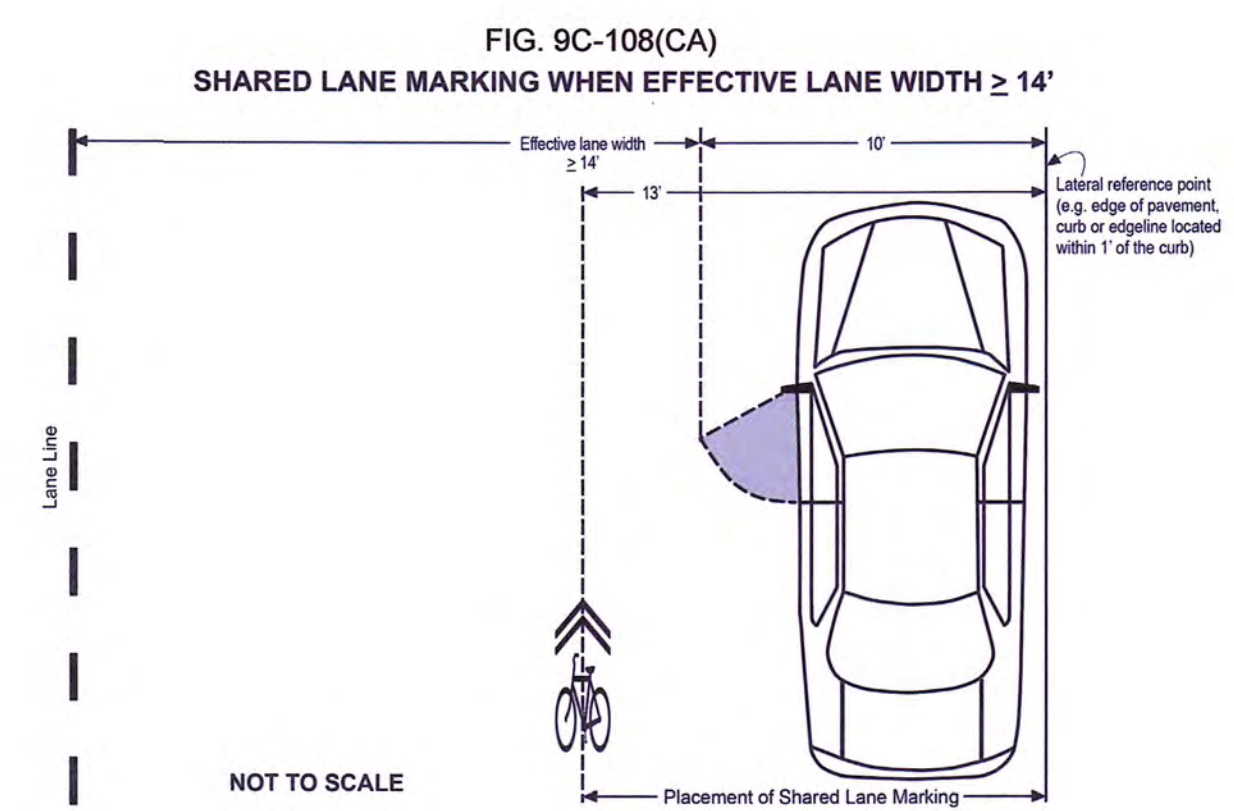
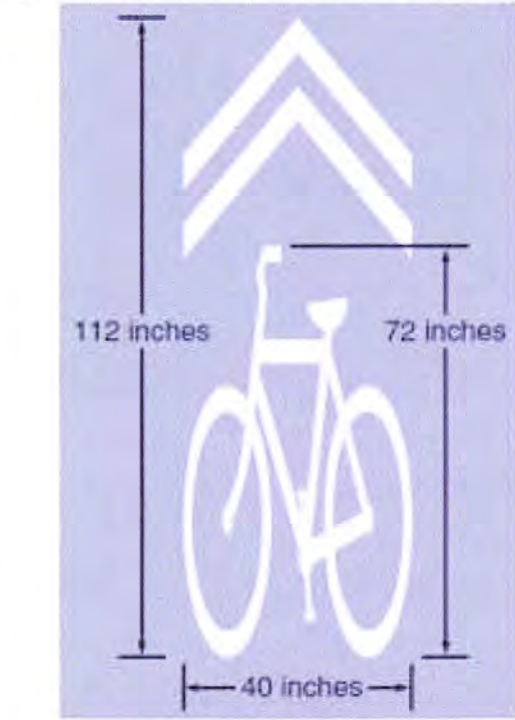
SHEET:
2
OF
14



- LEGEND AND CONSTRUCTION NOTES:**
- ⑬ INSTALL "BICYCLE MAY USE FULL LANE" SIGN PER MUTCD SIGN R4-11
 - ⑭ INSTALL SHARED LANE MARKING PER CA MUTCD FIGURE 9C-9 AND FIGURE 9C-10B.
- STRIPING LEGEND:**



Figure 9C-9. Shared Lane Marking



NOTE:
STRIPING TO BE THERMOPLASTIC
FOR ONLY LEGENDS AND
SHARED LANE MARKINGS

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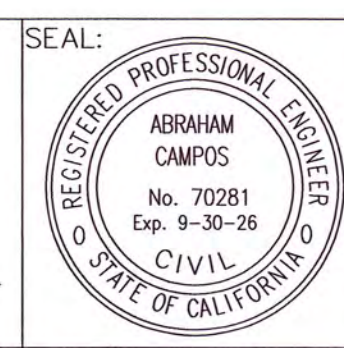
NO.	BY:	REVISION COMMENTS



APPROVED FOR CONSTRUCTION:

ABRAHAM CAMPOS, P.E. No. 70281
CITY ENGINEER

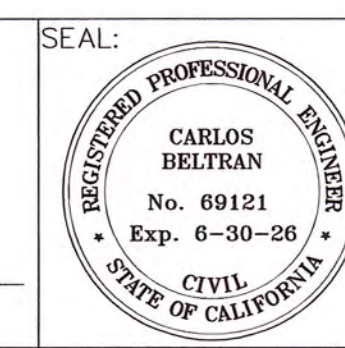
8/7/25
DATE



ENGINEER OF WORK:

CARLOS BELTRAN, P.E. No. 69121

8/7/25
DATE



DRAWN BY: DB
CHECK BY: CB
DATE: 7/29/25
PROJECT:
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
JACARANDA GARDENS PROJECT
AHSC GRANT
OFF SITE IMPROVEMENTS
IN THE CITY OF EL CENTRO

SHEET TITLE:
WATERMAN AVE.
AND VILLA WAY
CLASS III BIKE LANE

SHEET:
3
OF
14

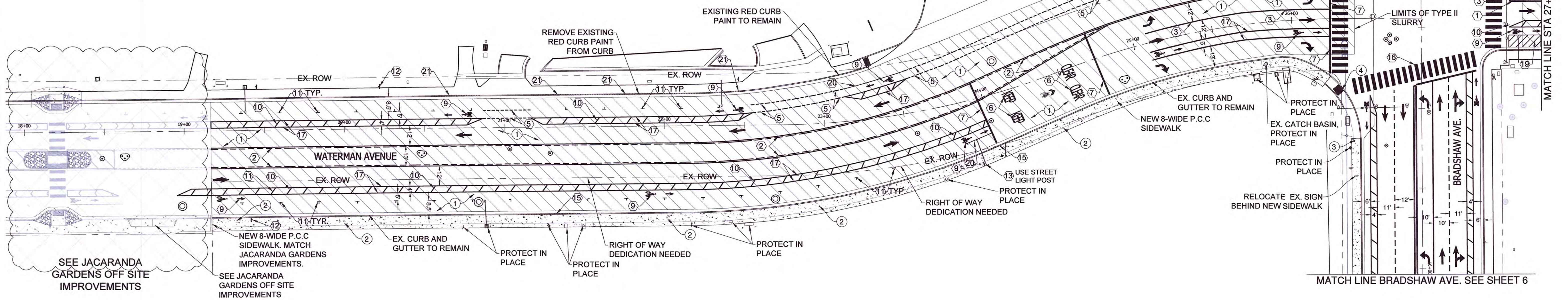
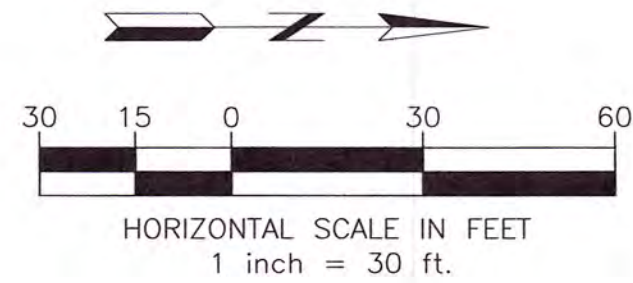
CONSTRUCTION NOTES:

1. INSTALL TYPE II POLYMODIFIED SLURRY SEAL. PRIOR TO INSTALLATION OF TYPE II POLYMODIFIED SLURRY SEAL, ALL CRACKS EQUAL OR GREATER THAN 1/4", SHALL BE PRESSURE-BLOWN FREE OF DEBRIS AND SEALED WITH A POLYMER MODIFIED ASPHALT-RUBBER CRACK SEALANT.
2. INSTALL 8-FT WIDE P.C.C. CONCRETE SIDEWALK PER DETAIL 4 ON SHEET 11. REMOVE AND DISPOSE EXISTING 5.5-FT WIDE SIDEWALK FOR THE LENGTH OF THE NEW 8-FT WIDE SIDEWALK.
3. INSTALL 5.5-FT WIDE P.C.C. CONCRETE SIDEWALK PER DETAIL 4 ON SHEET 11.
4. INSTALL P.C.C. HANDICAP RAMP PER DETAIL 10 ON SHEET 12.
5. INSTALL PINNED RAISED CONCRETE CURB PER DETAIL C1-6 (STANDARD PLAN 120-2) OF THE GREENBOOK STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION. SEE DETAIL 11 ON SHEET 12.
6. INSTALL RAISED MEDIAN PER DETAIL 20, SEE SHEET 13. SAWCUT EXISTING AC PAVEMENT AND REMOVE AND DISPOSE EXISTING ASPHALT CONCRETE AND UNDERLYING BASE MATERIAL.
7. INSTALL ROLLED CURB PER DETAIL 21, SEE SHEET 13.
8. INSTALL CONCRETE MEDIAN PER DETAIL 22, SEE SHEET 13.

CONSTRUCTION LEGEND:

PROPOSED IMPROVEMENTS NOT PART OF THIS PROJECT. PART OF JACARANDA GARDENS OFF SITE IMPROVEMENTS PROJECT

PROPOSED TYPE II POLYMODIFIED SLURRY SEAL



EXISTING STRIPING REMOVAL NOTE:
ALL EXISTING TRAFFIC STRIPING AND PAVEMENT MARKERS SHALL BE REMOVED VIA WET SAND-BLASTING.

STRIPING CONSTRUCTION NOTES:

1. INSTALL DOUBLE YELLOW NO PASSING LINE PER CALTRANS STANDARD PLAN A20A DETAIL 22.
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6. INSTALL "STOP", "KEEP", "CLEAR" LEGEND PER CALTRANS STANDARD PLAN A24D.
7. INSTALL LIMIT LINE (STOP LINE) PER CALTRANS STANDARD PLAN A24G.
8. INSTALL 8" DIAGONAL YELLOW LINES SPACED 20 FT APART.
9. INSTALL HELMETED BICYCLIST SYMBOL AND ARROW PAVEMENT MARKING PER CA MUTCD FIGURE 9C-3, B - HELMETED BICYCLIST SYMBOL LEGEND.
10. INSTALL 4 FT WIDE BUFFER AREA WITH WHITE DIAGONAL MARKINGS AND 6 INCH SOLID WHITE LINES ON BOTH SIDES. SEE CA MUTCD SECTION 9C.
11. INSTALL 4 INCH WHITE MARKINGS FOR PARALLEL PARKING 24 FT OFF CENTER. SEE MUTCD FIGURE 3B-21 (CA) FOR DETAILS.
12. INSTALL BIKE LANE SIGN PER MUTCD SIGN R81 CA, AND CITY OF EL CENTRO DETAIL EC 830. MAINTAIN 50 INCH CLEARANCE FOR ADA ACCESS/PATH OF TRAVEL.
13. INSTALL "BICYCLE MAY USE FULL LANE" SIGN PER MUTCD SIGN R4-11 CA, AND CITY OF EL CENTRO DETAIL EC 830.
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15. PAINT RED CURB (NO PARKING)
16. INSTALL 2 FT. WIDE X 10 FT. WHITE CONTINENTAL CROSSWALK PER CALTRANS STANDARD PLAN A24F.
17. INSTALL 6 INCH WHITE BIKE LANE LINE PER CALTRANS STANDARD PLAN A20D DETAIL 39.
18. INSTALL "END" PER MUTCD SIGN R881 CA, AND CITY OF EL CENTRO DETAIL EC 830. MAINTAIN 50 INCH CLEARANCE FOR ADA ACCESS/PATH OF TRAVEL.
19. INSTALL 4" DIAGONAL WHITE LINES SPACED 4 FT APART.
20. INSTALL 4 INCH WHITE MARKING FOR RIGHT SIDE OF BIKE LANE.
21. REMOVE EXISTING (NO PARKING) RED PAINT FROM EXISTING CURB.

STRIPING LEGEND:

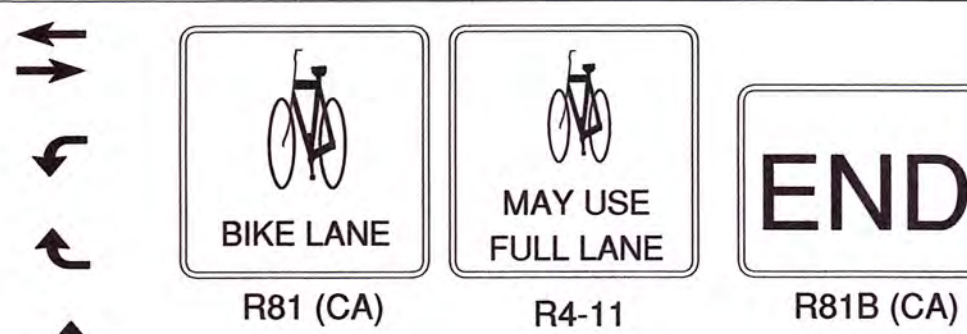
INSTALL TYPE I 10' ARROWS PER CALTRANS STANDARD PLAN A24A

INSTALL TYPE IV (L) ARROW PER CALTRANS STANDARD PLAN A24B

INSTALL TYPE IV (R) ARROW PER CALTRANS STANDARD PLAN A24B

INSTALL TYPE VII (R) ARROW PER CALTRANS STANDARD PLAN A24B

STRIPING TO BE THERMOPLASTIC FOR ONLY LEGENDS AND SHARED LANE MARKINGS



NOTE:
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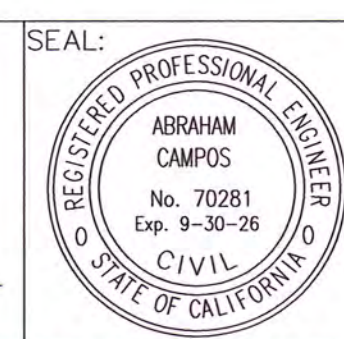
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APPROVED FOR CONSTRUCTION:

ABRAHAM CAMPOS, P.E. No. 70281
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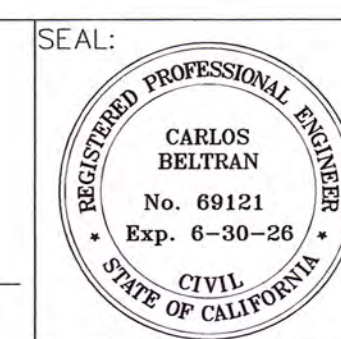
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JACARANDA GARDENS PROJECT
AHSC GRANT
OFF SITE IMPROVEMENTS
IN THE CITY OF EL CENTRO

SHEET TITLE:
WATERMAN AVE.
STREET IMPROVEMENTS
STA 19+17 TO STA 27+00

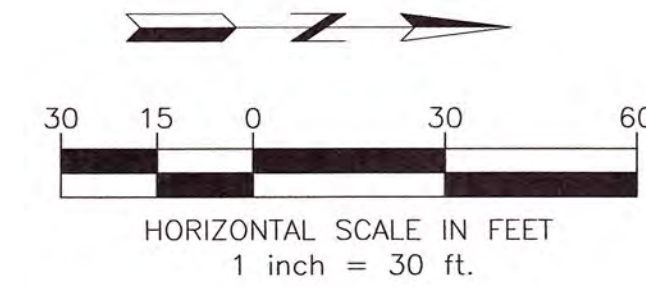
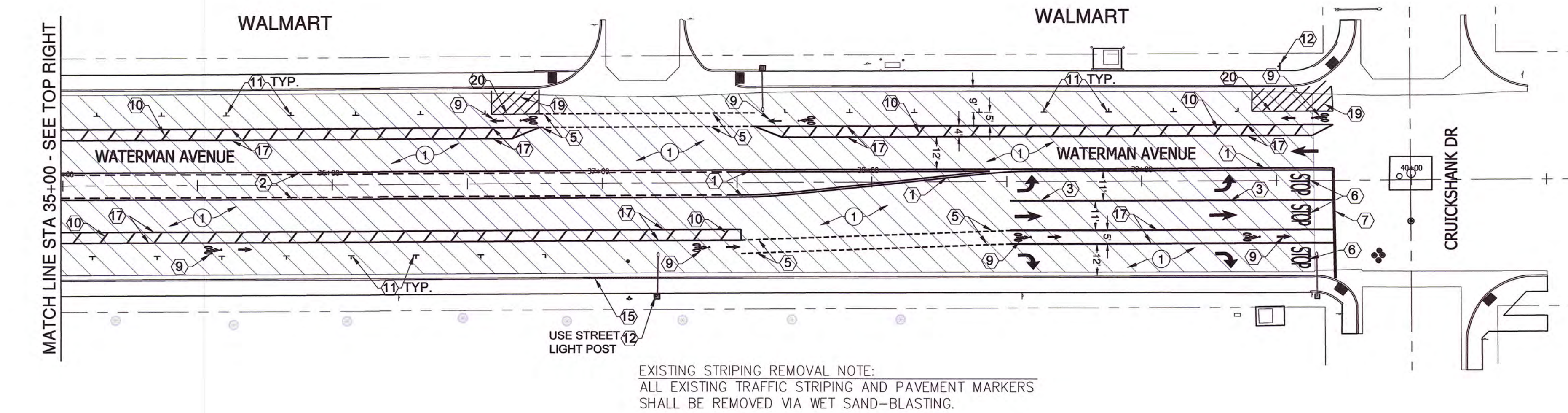
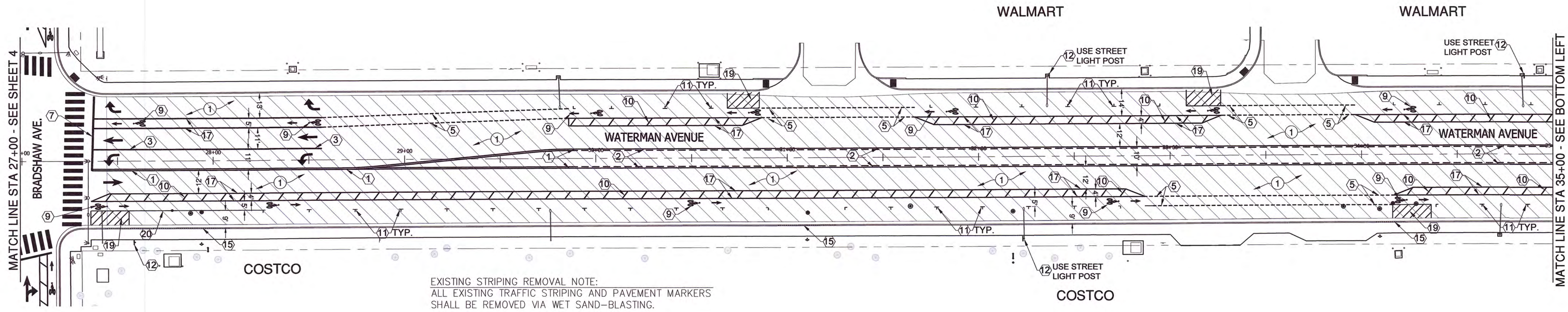
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OF
14

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CONSTRUCTION LEGEND:

PROPOSED TYPE II POLYMODIFIED SLURRY SEAL



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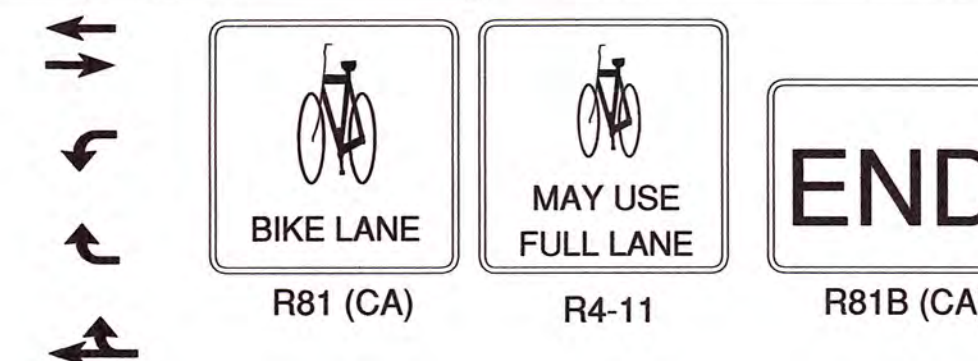
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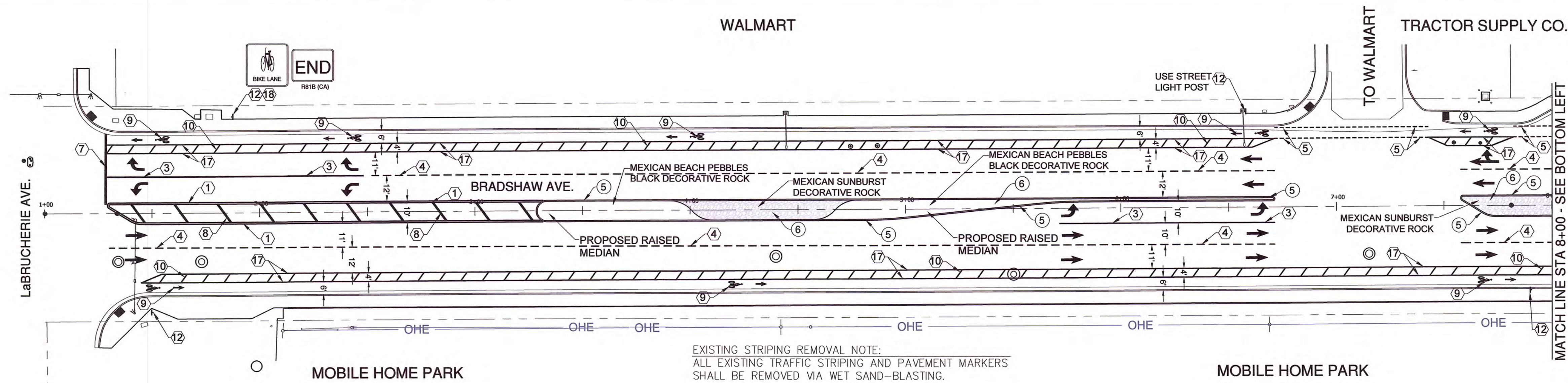
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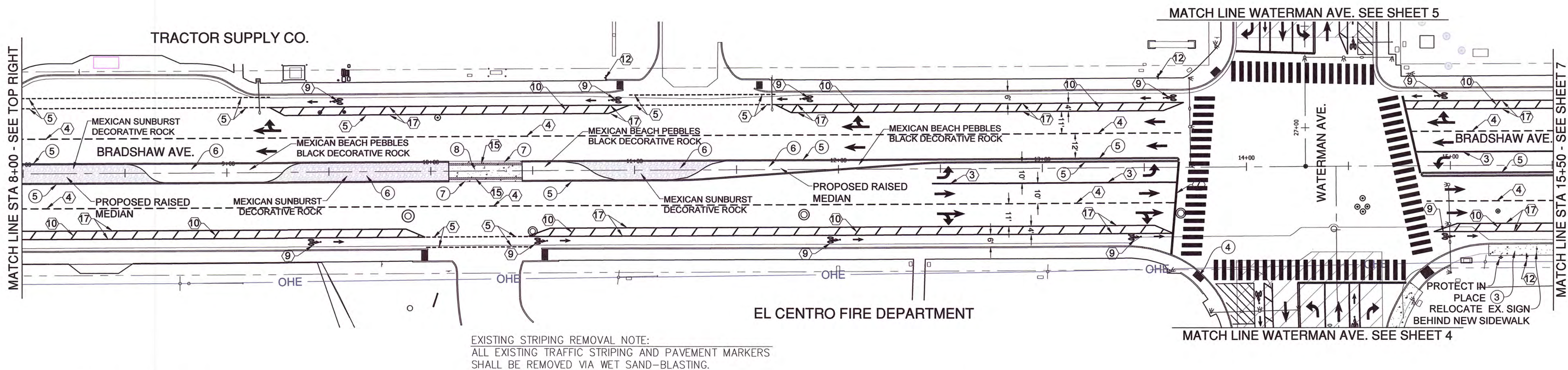
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NO.	BY:	REVISION COMMENTS	APPROVED FOR CONSTRUCTION:	SEAL:	ENGINEER OF WORK:	SEAL:	DRAWN BY: DB	PROJECT DESCRIPTION:	SHEET TITLE:	SHEET:
			ABRAHAM CAMPOS, P.E. No. 70281 CITY ENGINEER	ABRAHAM CAMPOS No. 70281 Exp. 9-30-26 CIVIL STATE OF CALIFORNIA	CARLOS BELTRAN, P.E. No. 69121	CARLOS BELTRAN No. 69121 Exp. 6-30-26 CIVIL STATE OF CALIFORNIA	CHECK BY: CB DATE: 7/29/25 PROJECT: FILE NAME: LAST REVISED:	JACARANDA GARDENS PROJECT AHSC GRANT OFF SITE IMPROVEMENTS IN THE CITY OF EL CENTRO	WATERMAN AVE. STREET IMPROVEMENTS STA 27+00 TO STA 39+71	5 OF 14



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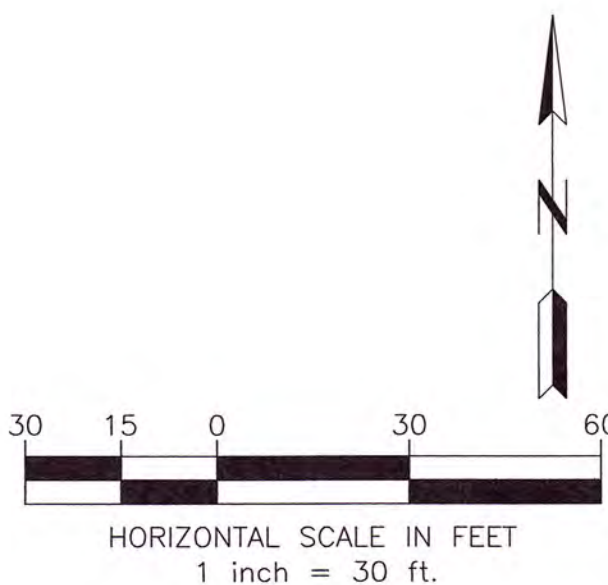
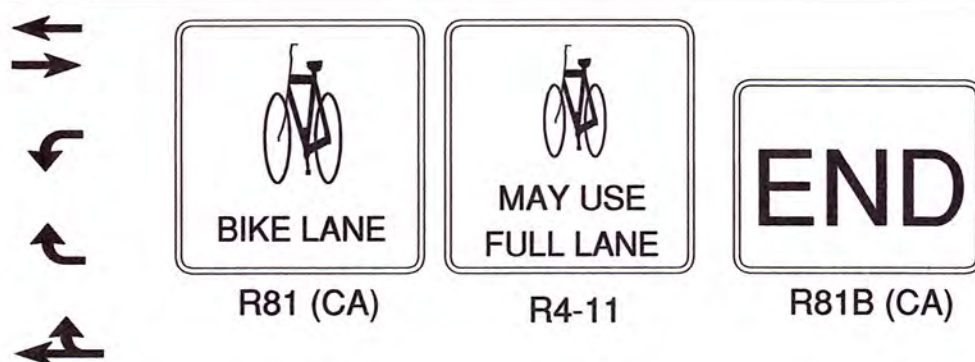
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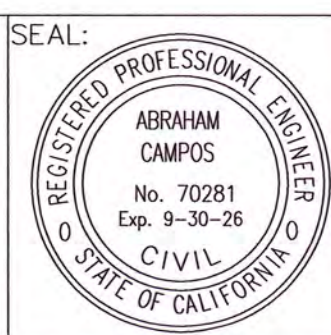
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APPROVED FOR CONSTRUCTION:

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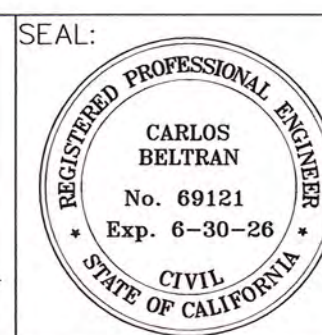
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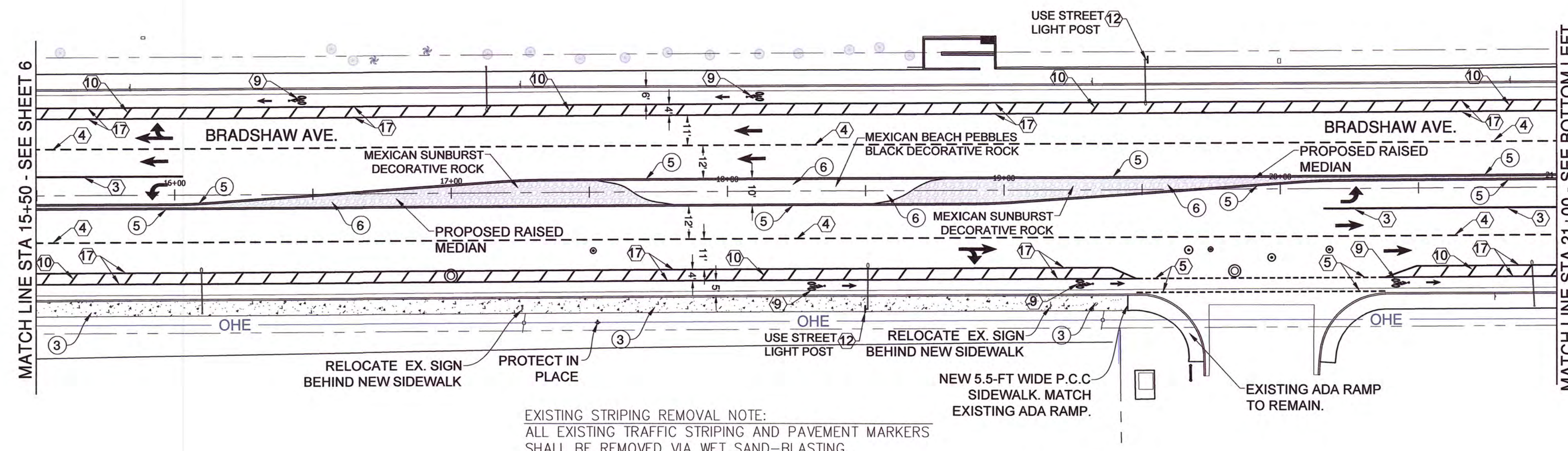
JACARANDA GARDENS PROJECT
AHSC GRANT
OFF SITE IMPROVEMENTS
IN THE CITY OF EL CENTRO

SHEET TITLE:

BRADSHAW AVE.
STREET IMPROVEMENTS
STA 0+00 TO STA 15+50

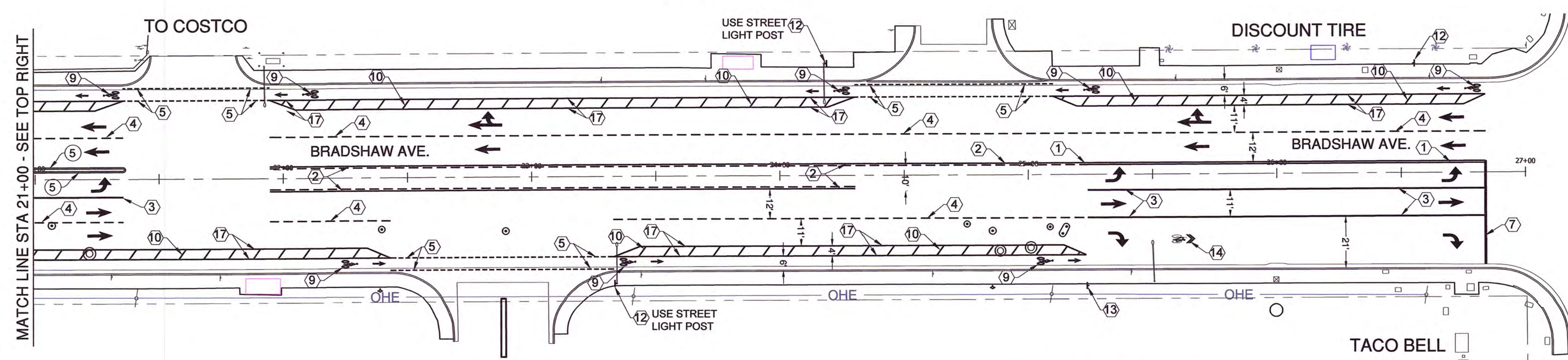
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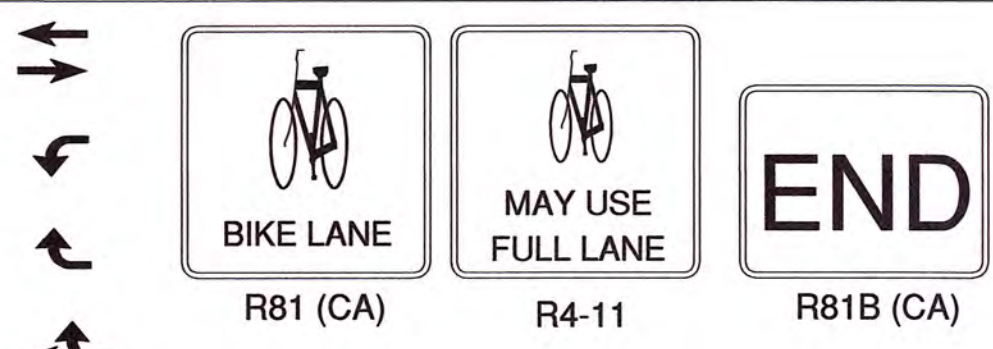
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- | | |
|--|--|
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|--|--|

STRIPING LEGEND:

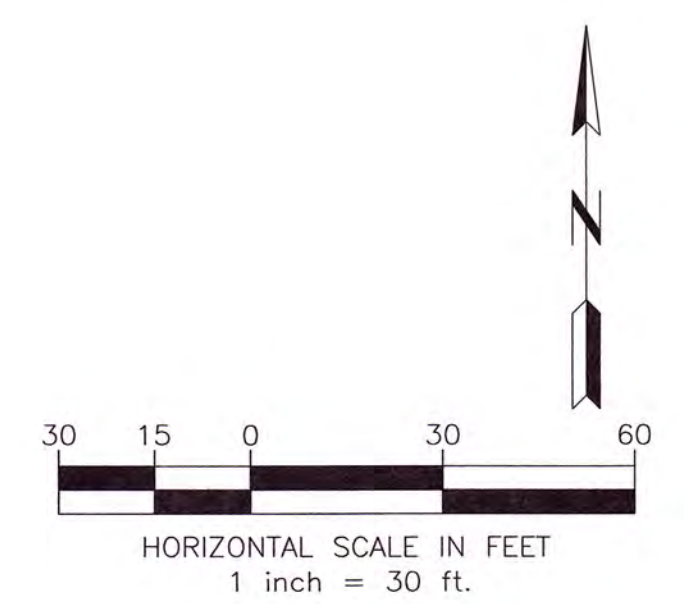
- INSTALL TYPE I 10' ARROWS PER CALTRANS STANDARD PLAN A24A
- INSTALL TYPE IV (L) ARROW PER CALTRANS STANDARD PLAN A24B
- INSTALL TYPE IV (R) ARROW PER CALTRANS STANDARD PLAN A24B
- INSTALL TYPE VII (R) ARROW PER CALTRANS STANDARD PLAN A24B
- STRIPING TO BE THERMOPLASTIC FOR ONLY LEGENDS AND SHARED LANE MARKINGS



NOTE:
ALL TRAFFIC STRIPING AND PAVEMENT MARKERS SHALL BE COMPLETED PER LATEST EDITION OF THE CA (MUTCD) MANUAL OF TRAFFIC CONTROL DEVICES AND THE LATEST EDITION OF THE CALTRANS STANDARD PLANS AND SPECIFICATIONS. THREE (3) COATS AND NO SPRAYABLE THERMOPLASTIC SHALL BE USED ON THIS PROJECT.

CONSTRUCTION NOTES:

- ① INSTALL TYPE II POLYMODIFIED SLURRY SEAL. PRIOR TO INSTALLATION OF TYPE II POLYMODIFIED SLURRY SEAL, ALL CRACKS EQUAL OR GREATER THAN 1/4", SHALL BE PRESSURE-BLOWN FREE OF DEBRIS AND SEALED WITH A POLYMER MODIFIED ASPHALT-RUBBER CRACK SEALANT.
- ② INSTALL 8-FT WIDE P.C.C. CONCRETE SIDEWALK PER DETAIL 4 ON SHEET 11. REMOVE AND DISPOSE EXISTING 5.5-FT WIDE SIDEWALK FOR THE LENGTH OF THE NEW 8-FT WIDE SIDEWALK.
- ③ INSTALL 5.5-FT WIDE P.C.C. CONCRETE SIDEWALK PER DETAIL 4 ON SHEET 11.
- ④ INSTALL P.C.C. HANDICAP RAMP PER DETAIL 10 ON SHEET 12.
- ⑤ INSTALL PINNED RAISED CONCRETE CURB PER DETAIL C1-6 (STANDARD PLAN 120-2) OF THE GREENBOOK STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION. SEE DETAIL 11 ON SHEET 12.
- ⑥ INSTALL RAISED MEDIAN PER DETAIL 20, SEE SHEET 13. SAWCUT EXISTING AC PAVEMENT AND REMOVE AND DISPOSE EXISTING ASPHALT CONCRETE AND UNDERLYING BASE MATERIAL.
- ⑦ INSTALL ROLLED CURB PER DETAIL 21, SEE SHEET 13.
- ⑧ INSTALL CONCRETE MEDIAN PER DETAIL 22, SEE SHEET 13.



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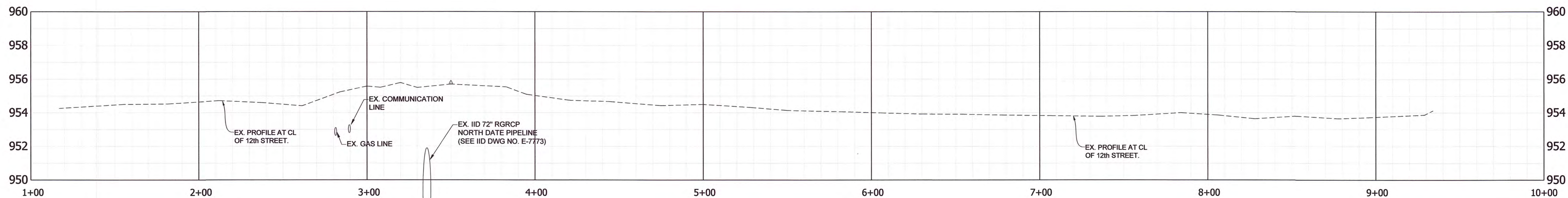
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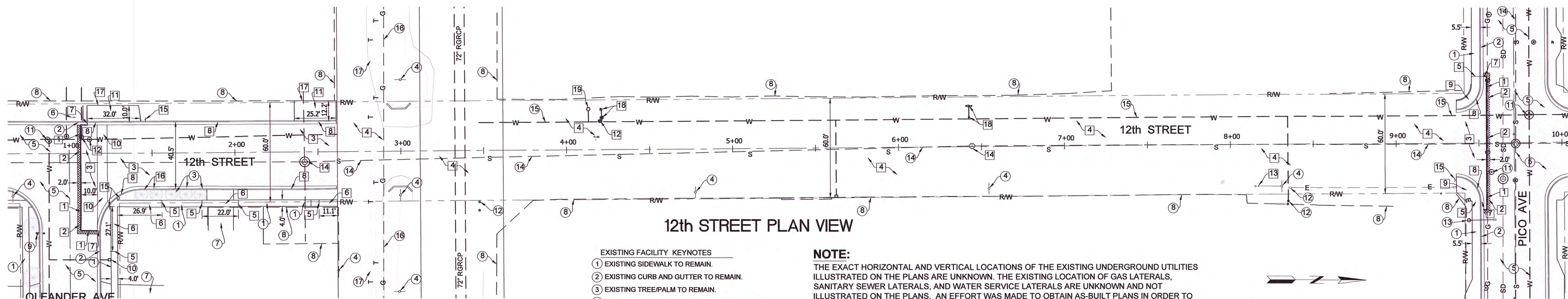
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				 ABRAHAM CAMPOS, P.E. No. 70281 CITY ENGINEER	 No. 70281 Exp. 9-30-26 CIVIL	 CARLOS BELTRAN, P.E. No. 69121	 No. 69121 Exp. 6-30-26 CIVIL	CHECK BY: CB DATE: 7/29/25 PROJECT: FILE NAME: LAST REVISED:	JACARANDA GARDENS PROJECT AHSC GRANT OFF SITE IMPROVEMENTS IN THE CITY OF EL CENTRO	BRADSHAW AVE. STREET IMPROVEMENTS STA 15+50 TO STA 27+00	7 OF 14



12th STREET PROFILE
HORIZONTAL SCALE 1"=30'
VERTICAL SCALE 1"=3'



12th STREET PLAN VIEW

DEMOLITION KEYNOTES

- 1 SAWCUT THE EXISTING A.C. PAVEMENT FOR THE FULL DEPTH OF THE A.C. PAVEMENT
- 2 COLD PLANE EXISTING A.C. PAVEMENT FOR A THICKNESS OF 0.12-FOOT PER CONSTRUCTION PAVEMENT EXTENSION JOINT PER DETAIL 7 ON SHEET 11. REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT MATERIAL
- 3 REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE TO ACCOMMODATE NEW 4-INCHES OF A.C. PAVEMENT OVER 13-INCHES OF CLASS 2 BASE.
- 4 REMOVE AND DISPOSE OF EXISTING NATIVE MATERIAL TO SUBBASE DESIGN GRADE.
- 5 SAWCUT THE EXISTING P.C.C. SIDEWALK FOR THE FULL DEPTH OF THE P.C.C. SIDEWALK.
- 6 REMOVE AND DISPOSE OF EXISTING P.C.C. SIDEWALK AND UNDERLYING MATERIAL TO DESIGN SUBBASE GRADE PER DETAIL 3 ON SHEET 11.
- 7 SAWCUT THE EXISTING P.C.C. CURB AND GUTTER FOR THE FULL DEPTH OF THE P.C.C. CURB AND GUTTER.
- 8 REMOVE AND DISPOSE OF EXISTING P.C.C. CURB AND GUTTER AND UNDERLYING MATERIAL TO DESIGN SUBBASE GRADE PER DETAIL 3 ON SHEET 11.
- 9 REMOVE AND DISPOSE OF EXISTING P.C.C. HANDICAP CURB RAMP AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.
- 10 REMOVE AND DISPOSE OF EXISTING P.C.C. CROSS GUTTER AND UNDERLYING MATERIAL TO DESIGN SUBBASE GRADE.

- 11 REMOVE AND DISPOSE OF EXISTING P.C.C. DRIVEWAY INCLUDING REBARS AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.
- 12 CONTRACTOR TO LOWER THE WATER VALVE RISER TO 0.30 FEET BELOW GRADE PRIOR TO PAVING ACTIVITIES.
- 13 REMOVE AND RELOCATE EXISTING GUY WIRE BY OTHERS.
- 14 CONTRACTOR TO LOWER EXISTING SANITARY SEWER MANHOLE FRAME AND COVER TO 0.30 FEET BELOW GRADE PRIOR TO PAVING ACTIVITIES.
- 15 REMOVE AND DELIVER EXISTING STOP OR STREET SIGN TO THE CITY OF EL CENTRO PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF EL CENTRO FOR THE DELIVERY LOCATION OF THE EXISTING SIGN.
- 16 REMOVE AND DISPOSE OF EXISTING TREE.
- 17 SAWCUT THE EXISTING P.C.C. DRIVEWAY FOR THE FULL DEPTH OF THE P.C.C. DRIVEWAY.
- 18 REMOVE AND RELOCATE EXISTING FIRE HYDRANT AND WATER VALVE ASSEMBLY.
- 19 REMOVE AND RELOCATE EXISTING WATER UTILITY MISC. ASSEMBLY.

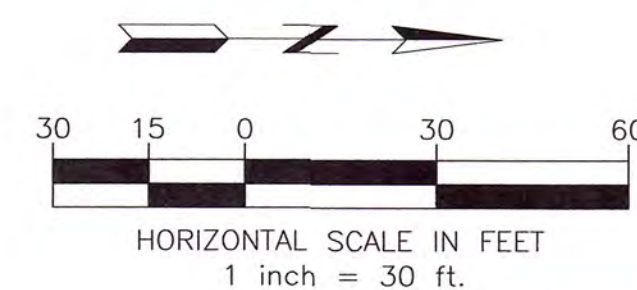
EXISTING FACILITY KEYNOTES

- 1 EXISTING SIDEWALK TO REMAIN.
- 2 EXISTING CURB AND GUTTER TO REMAIN.
- 3 EXISTING TREE/PALM TO REMAIN.
- 4 EXISTING POWER/TELEPHONE POLE TO REMAIN.
- 5 EXISTING A.C. PAVEMENT TO REMAIN.
- 6 EXISTING SIGN TO REMAIN.
- 7 EXISTING DRIVEWAY TO REMAIN.
- 8 EXISTING FENCE TO REMAIN.
- 9 EXISTING FIRE HYDRANT TO REMAIN (PROTECT IN PLACE).
- 10 EXISTING WATER METER TO REMAIN.
- 11 EXISTING WATER/GAS VALVE TO REMAIN.
- 12 EXISTING UTILITY BOX TO REMAIN.
- 13 EXISTING ELECTRICAL LIGHT POLE TO REMAIN.
- 14 EXISTING SEWER LINE TO REMAIN.
- 15 EXISTING WATER LINE TO REMAIN.
- 16 EXISTING GAS LINE TO REMAIN.
- 17 EXISTING AT&T LINE TO REMAIN.

NOTE:

THE EXACT HORIZONTAL AND VERTICAL LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ILLUSTRATED ON THE PLANS ARE UNKNOWN. THE EXISTING LOCATION OF GAS LATERALS, SANITARY SEWER LATERALS, AND WATER SERVICE LATERALS ARE UNKNOWN AND NOT ILLUSTRATED ON THE PLANS. AN EFFORT WAS MADE TO OBTAIN AS-BUILT PLANS IN ORDER TO ACCURATELY ILLUSTRATE THE EXISTING KNOWN UTILITIES DURING DESIGN PHASE; HOWEVER, THERE MAY BE ADDITIONAL UNDERGROUND UTILITIES NOT ILLUSTRATED ON THE PLANS. CONTRACTOR SHALL "POT-HOLE" THE EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION UNDER A.C. PAVEMENT AND CONCRETE AREAS WITHIN FIVE (5) DAYS FROM THE ISSUANCE OF THE NOTICE TO PROCEED. THE CONTRACTOR SHALL COORDINATE THE "POT-HOLING" WITH THE UTILITY COMPANIES AND CONSTRUCTION MANAGER. IT SHALL BE VERIFIED THAT THE EXISTING UTILITIES ARE LOCATED BELOW THE SUBBASE DESIGN ELEVATION OF THE NEW STREET SECTION IMPROVEMENTS. RELOCATION OF THE UTILITIES SHALL BE COORDINATED WITH THE UTILITY COMPANY. THERE ARE EXISTING UNDERGROUND TELEPHONE CABLE, WATER, SANITARY SEWER, AND GAS ALONG 12TH STREET. THE CONTRACTOR SHALL POT-HOLE AND EXPOSE THE UTILITIES PRIOR TO THE EXCAVATION OF SUBGRADE ALONG THE NEW PAVEMENT STRUCTURAL SECTION. THE CONSTRUCTION MANAGER AND UTILITY PURVEYOR SHALL OBSERVE THE UTILITIES PRIOR TO DEMOLITION OF THE ROADWAY. THE WATER PIPELINE BENEATH A.C. PAVEMENT OR P.C.C. CONCRETE SHALL BE POT-HOLED AT 100 FOOT ON CENTER. PIPELINES OBSERVED AND IDENTIFIED AS TOO SHALLOW BY THE UTILITY PURVEYORS SHALL BE PROTECTED BY USING LIGHTER COMPACTION EQUIPMENT IN THE VICINITY OF THE UTILITIES.

CONTRACTOR SHALL INSTALL (PLANT) 3 TREES AT LOCATION DESIGNATED BY THE CONSTRUCTION MANAGER. THE TREE SHALL BE A 16-GALLON TREE AND OF THE SAME SPECIES AS THE TREE REMOVED.



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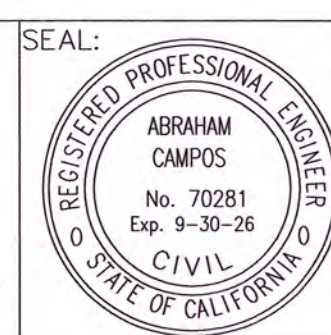
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APPROVED FOR CONSTRUCTION:

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CITY ENGINEER

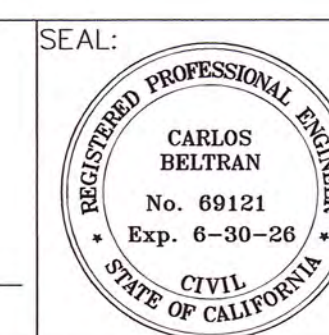
DATE 8/7/25



ENGINEER OF WORK:

CARLOS BELTRAN, P.E. No. 69121

DATE 8/7/25

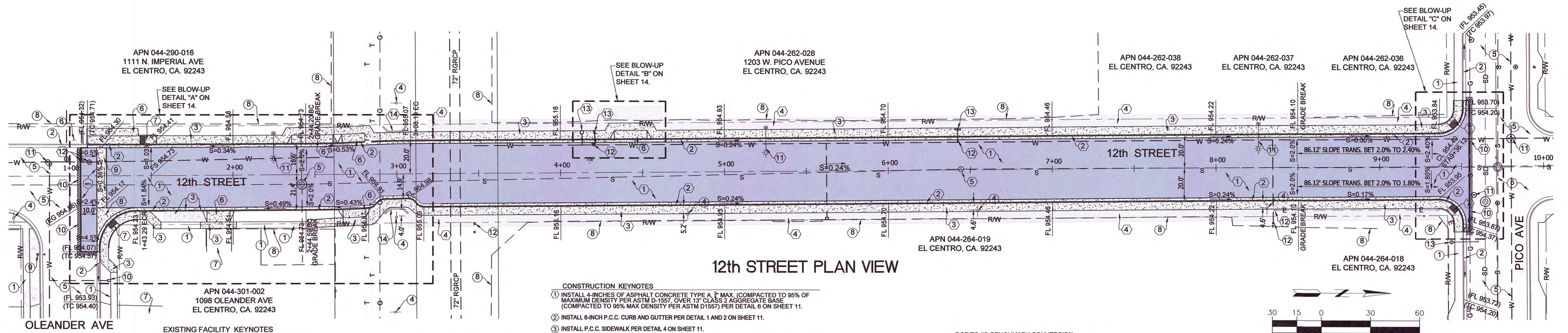
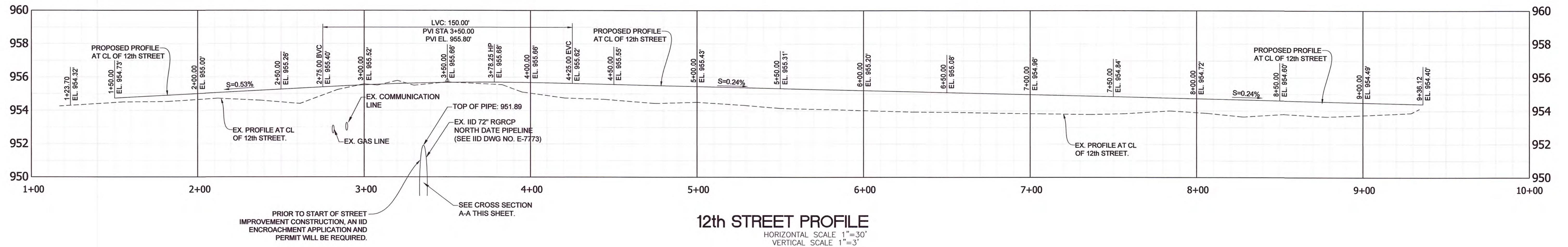


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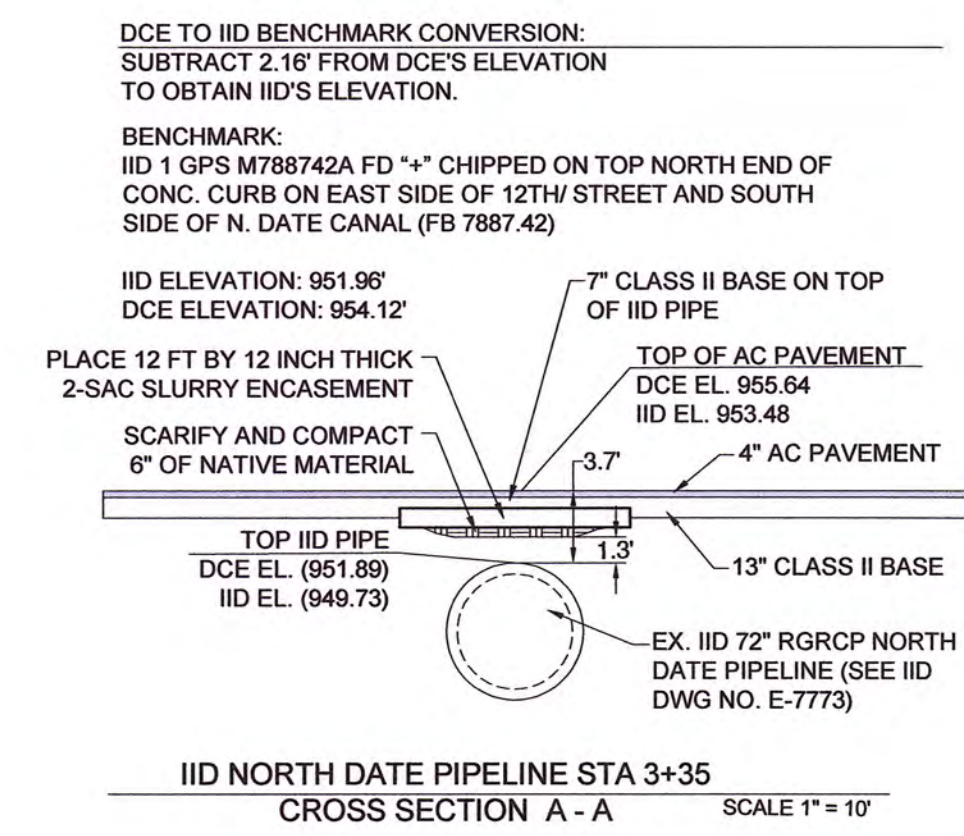
PROJECT DESCRIPTION:
JACARANDA GARDENS PROJECT
AHSC GRANT
OFF SITE IMPROVEMENTS
IN THE CITY OF EL CENTRO

SHEET TITLE:
12TH ST.
DEMOLITION PLAN
STA 2+00 TO STA 9+35

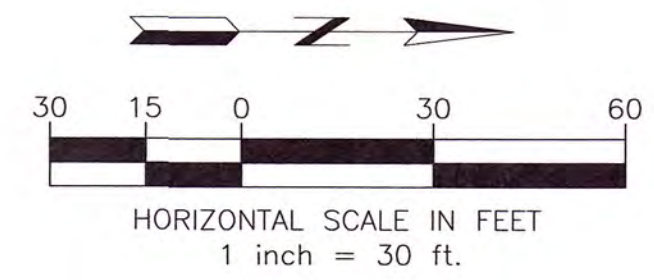
SHEET:
8
OF
14



- CONSTRUCTION KEYNOTES**
1. INSTALL 4-INCHES OF ASPHALT CONCRETE TYPE A 3" MAX. (COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM D-1557, OVER 13" CLASS 2 AGGREGATE BASE (COMPACTED TO 95% MAX DENSITY PER ASTM D-1557) PER DETAIL 6 ON SHEET 11.
 2. INSTALL 6-INCH P.C.C. CURB AND GUTTER PER DETAIL 1 AND 2 ON SHEET 11.
 3. INSTALL P.C.C. SIDEWALK PER DETAIL 4 ON SHEET 11.
 4. AFTER THE PLACEMENT OF THE P.C.C. SIDEWALK OR THE P.C.C. CURB AND GUTTER IS COMPLETED PLACE NATIVE MATERIAL 0.05 FEET BELOW P.C.C. SIDEWALK OR THE CURB AND GUTTER SURFACE FOR A HORIZONTAL DISTANCE OF 7 FEET TO DAY LIGHT OR 10 FEET TO DAY LIGHT OR AS ILLUSTRATED BY THE HATCH AREA (EXISTING GRADE). COMPACT NATIVE MATERIAL TO 95% PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. APPLY LIGHT MIST OF WATER TO THE SURFACE OF THE NATIVE MATERIAL AFTER FINAL GRADING IS SATISFACTORILY COMPLETED. SEE DETAIL ON SHEET 11.
 5. ADJUST THE EXISTING SANITARY SEWER MANHOLE FRAME AND COVER TO FINISH GRADE AFTER PAVING OPERATIONS ARE COMPLETE. PLACE A 12-INCH WIDE, 12-INCH DEEP, 5,000 PSI CONCRETE RING AROUND THE EXTERIOR CIRCUMFERENCE OF THE MANHOLE PER DETAIL ON SHEET 11.
 6. INSTALL DRIVEWAY PER DETAIL 5 ON SHEET 11.
 7. INSTALL P.C.C. ACCESSIBLE RAMP PER DETAIL 10 ON SHEET 12.
 8. INSTALL P.C.C. SPANDREL PER DETAIL 8 ON SHEET 12.
 9. INSTALL P.C.C. CROSS GUTTER PER DETAIL 8 ON SHEET 12.
 10. NEW CONSTRUCTION PAVEMENT EXTENSION JOINT PER DETAIL 7 ON SHEET 11.
 11. INSTALL NEW STREET LIGHT POLE PER DETAIL 13 ON SHEET 12.
 12. ADJUST THE EXISTING WATER VALVE RISER TO FINISH PAVEMENT GRADE. AFTER PAVING OPERATION ARE COMPLETE PLACE AN 8-INCH WIDE, 8-INCH DEEP, 5,000 PSI CONCRETE RING AROUND THE EXTERIOR CIRCUMFERENCE OF THE WATER VALVE RISER.
 13. EXISTING FIRE HYDRANT/AIR RELEASE/BLOW-OFF ASSEMBLY TO BE RELOCATED BY CONTRACTOR. THE FIRE HYDRANT/AIR RELEASE/BLOW-OFF ASSEMBLY SHALL BE RELOCATED OUTSIDE OF THE CONCRETE INFRASTRUCTURE AREA IN THE NATIVE EARTH AREAS. CONTRACTOR TO COORDINATE WITH CONSTRUCTION MANAGER THE NEW FIRE HYDRANT LOCATION.
 14. INSTALL NEW RETAINING WALL PER DETAIL 15 ON SHEET 12.



- EXISTING FACILITY KEYNOTES**
1. EXISTING SIDEWALK TO REMAIN.
 2. EXISTING CURB AND GUTTER TO REMAIN.
 3. EXISTING TREE/PALM TO REMAIN.
 4. EXISTING POWER/TELEPHONE POLE TO REMAIN.
 5. EXISTING A.C. PAVEMENT TO REMAIN.
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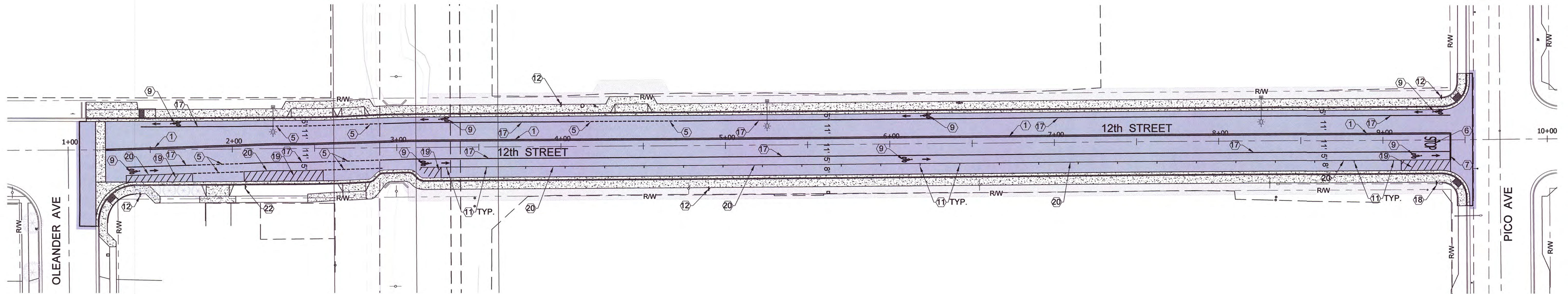
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			ABRAHAM CAMPOS, P.E. No. 70281 CITY ENGINEER	CARLOS BELTRAN, P.E. No. 69121	JACARANDA GARDENS PROJECT AHSC GRANT OFF SITE IMPROVEMENTS IN THE CITY OF EL CENTRO	12TH ST. IMPROVEMENTS PLAN STA 2+00 TO STA 9+35	9 OF 14



EXISTING STRIPING REMOVAL NOTE:
ALL EXISTING TRAFFIC STRIPING AND PAVEMENT MARKERS
SHALL BE REMOVED VIA WET SAND-BLASTING.

STRIPING CONSTRUCTION NOTES:

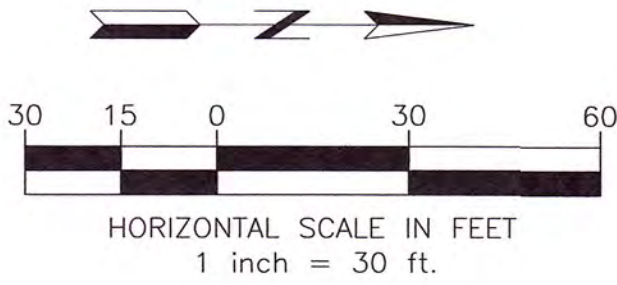
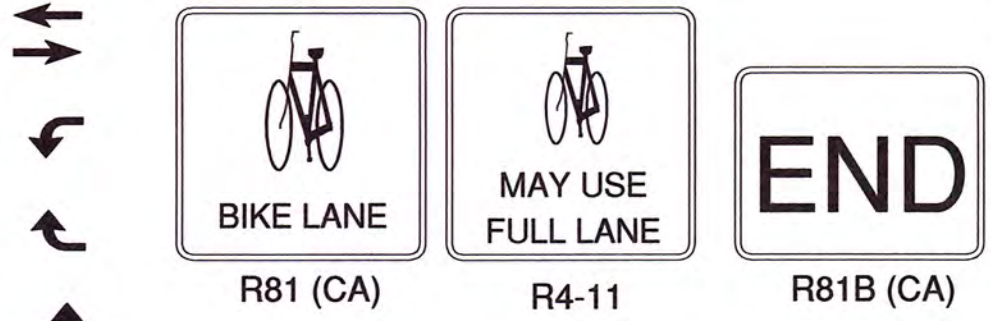
- ① INSTALL DOUBLE YELLOW NO PASSING LINE PER CALTRANS STANDARD PLAN A20A DETAIL 22.
- ⑤ INSTALL 6" WHITE INTERSECTION LINE BIKE LANE PER CALTRANS STANDARD PLAN A20D DETAIL 39A.
- ⑥ INSTALL "STOP", "KEEP", "CLEAR" LEGEND PER CALTRANS STANDARD PLAN A24D
- ⑦ INSTALL LIMIT LINE (STOP LINE) PER CALTRANS STANDARD PLAN A24G
- ⑧ INSTALL 8" DIAGONAL YELLOW LINES SPACED 10 FT APART.
- ⑨ INSTALL HELMETED BICYCLIST SYMBOL AND ARROW PAVEMENT MARKING PER CA MUTCD FIGURE 9C-3, B - HELMETED BICYCLIST SYMBOL LEGEND.
- ⑪ INSTALL 4 INCH WHITE MARKINGS FOR PARALLEL PARKING 24 FT OFF CENTER. SEE MUTCD FIGURE 3B-21 (CA) FOR DETAILS.
- ⑫ INSTALL BIKE LANE SIGN PER MUTCD SIGN R81 CA, AND CITY OF EL CENTRO DETAIL EC 830. MAINTAIN 50 INCH CLEARANCE FOR ADA ACCESS/PATH OF TRAVEL
- ⑬ INSTALL 6 INCH WHITE BIKE LANE LINE PER CALTRANS STANDARD PLAN A20D DETAIL 39.
- ⑭ INSTALL "END" PER MUTCD SIGN R881 CA, AND CITY OF EL CENTRO DETAIL EC 830. MAINTAIN 50 INCH CLEARANCE FOR ADA ACCESS/PATH OF TRAVEL
- ⑮ INSTALL 4" DIAGONAL WHITE LINES SPACED 4 FT APART.
- ⑯ INSTALL 4 INCH WHITE MARKING FOR RIGHT SIDE OF BIKE LANE.
- ⑰ INSTALL "NO PARKING ANY TIME" SIGN PER CA MUTCD SIGN R28 (CA), AND CITY OF EL CENTRO DETAIL EC 830.

STRIPING LEGEND:

- INSTALL TYPE I 10' ARROWS PER CALTRANS STANDARD PLAN A24A
- INSTALL TYPE IV (L) ARROW PER CALTRANS STANDARD PLAN A24B
- INSTALL TYPE IV (R) ARROW PER CALTRANS STANDARD PLAN A24B
- INSTALL TYPE VII (R) ARROW PER CALTRANS STANDARD PLAN A24B

STRIPING TO BE THERMOPLASTIC FOR ONLY LEGENDS AND SHARED LANE MARKINGS

NOTE:
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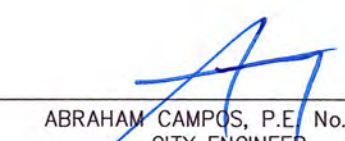
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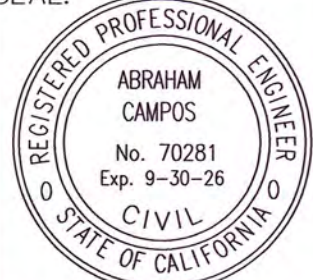


APPROVED FOR CONSTRUCTION:


ABRAHAM CAMPOS, P.E. No. 70281
CITY ENGINEER

9/7/25
DATE

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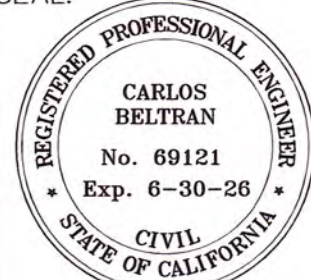


ENGINEER OF WORK:


CARLOS BELTRAN, P.E. No. 69121

8/7/25
DATE

SEAL:



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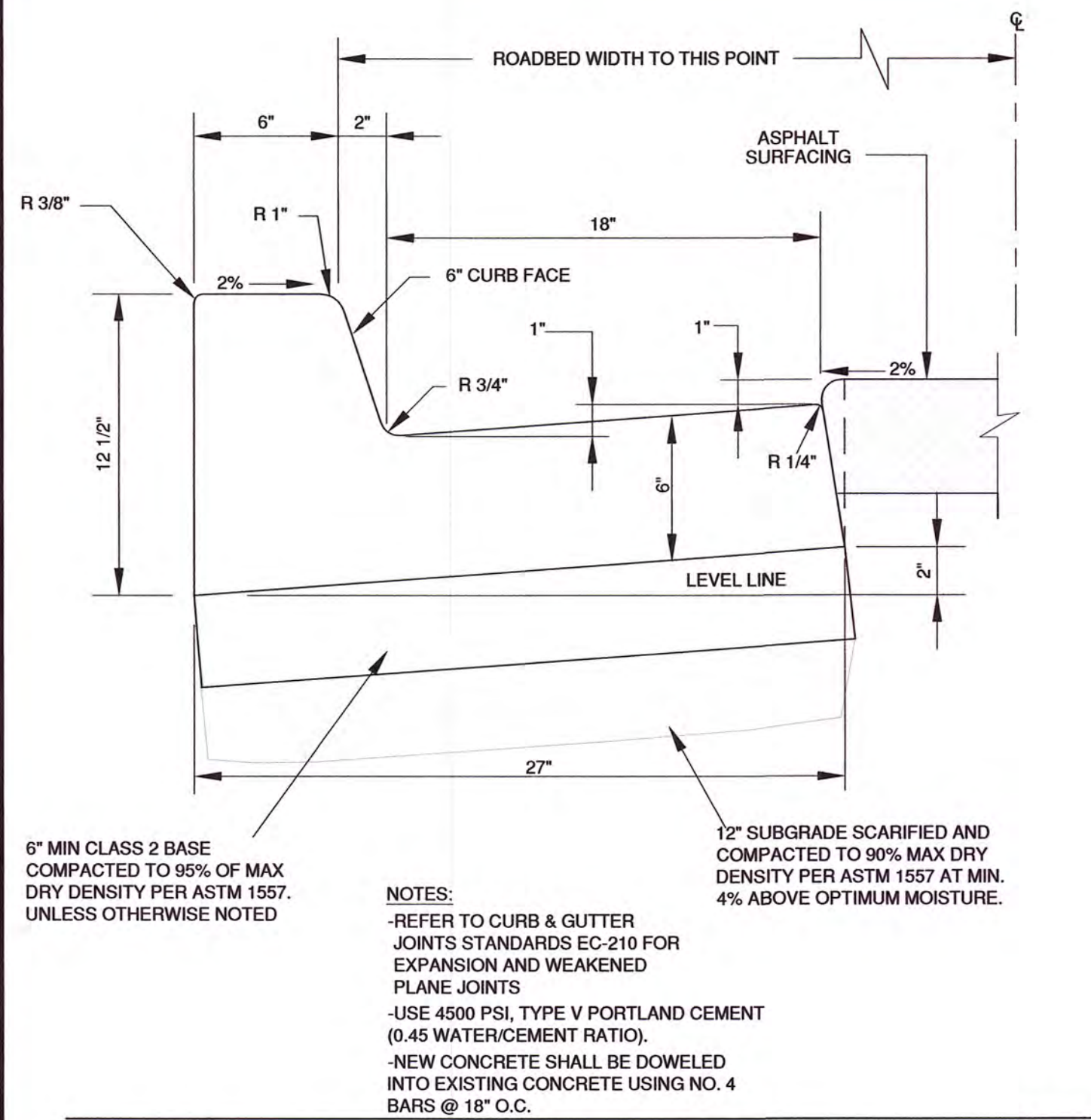
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AHSC GRANT
OFF SITE IMPROVEMENTS
IN THE CITY OF EL CENTRO

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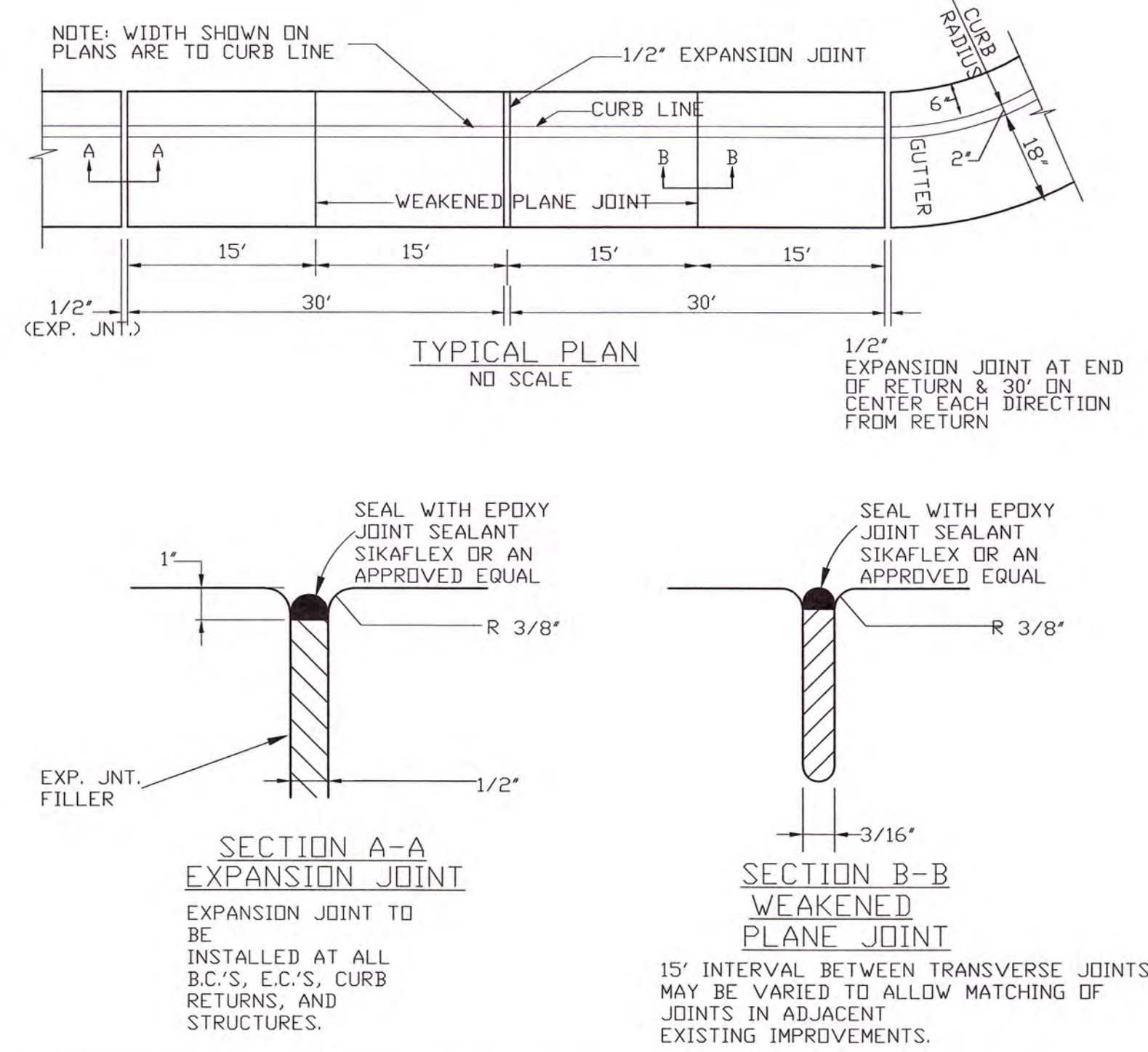
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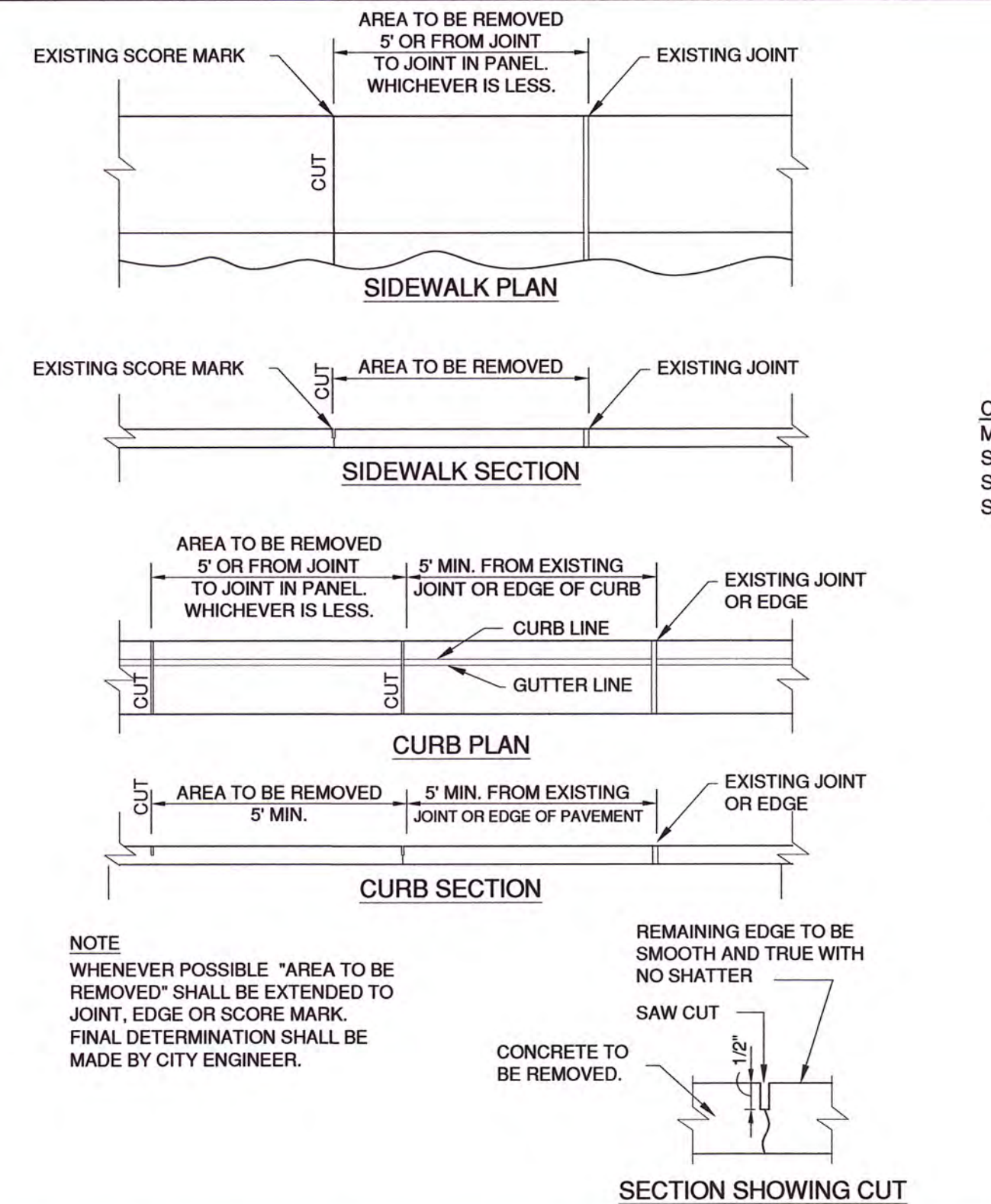
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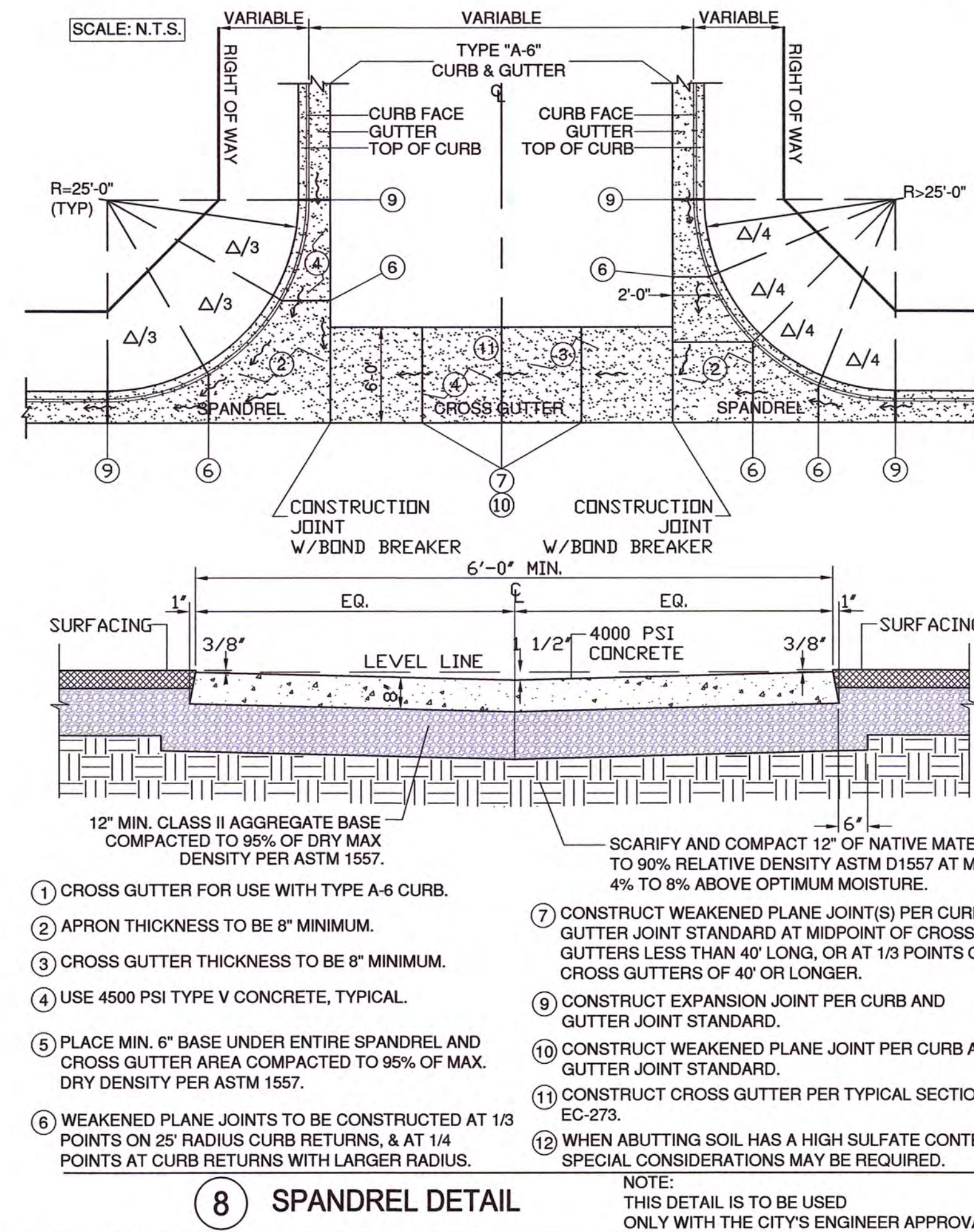
1 TYPE A - 6 CURB & GUTTER DETAIL



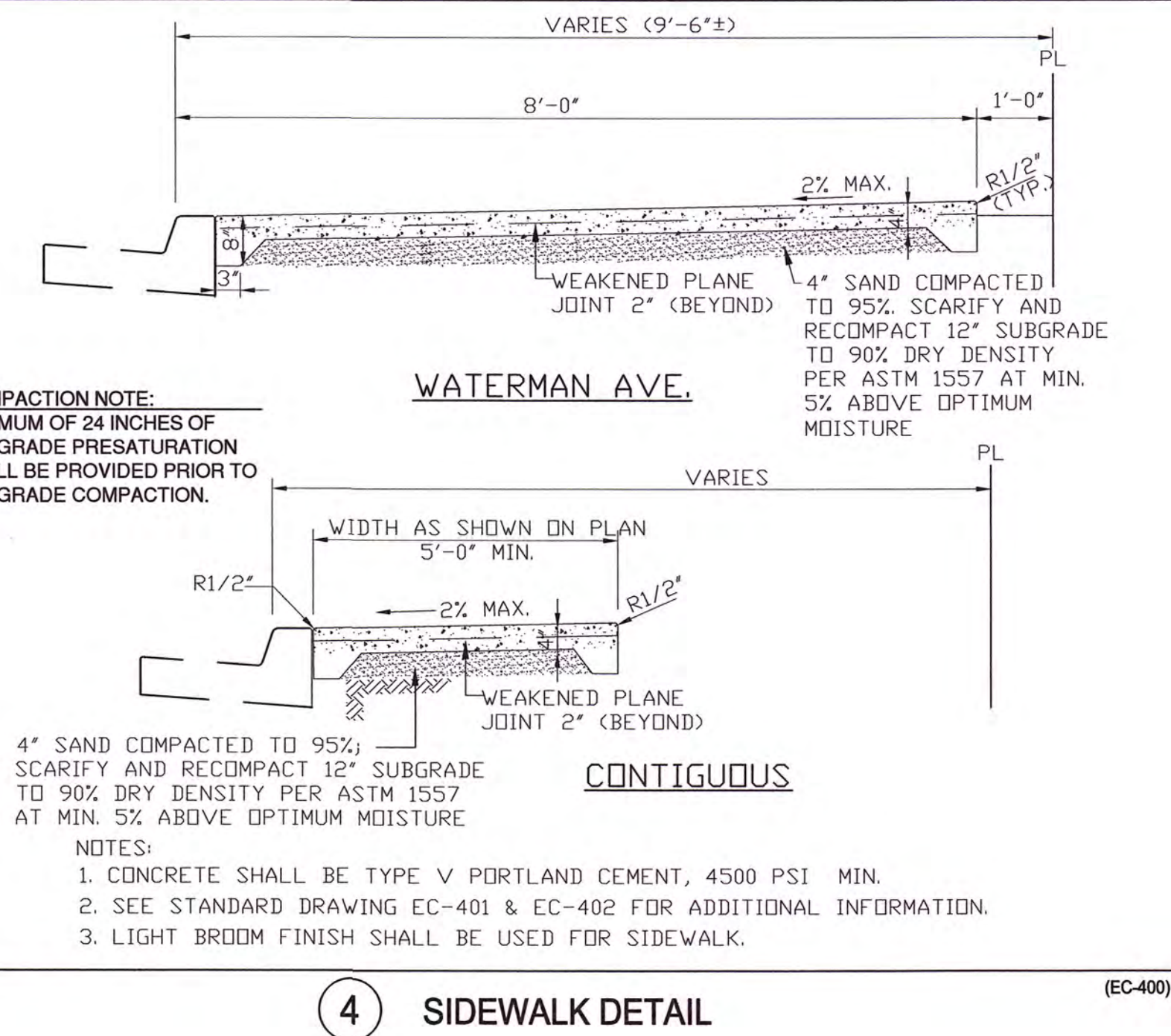
2 CURB AND GUTTER JOINTS DETAIL



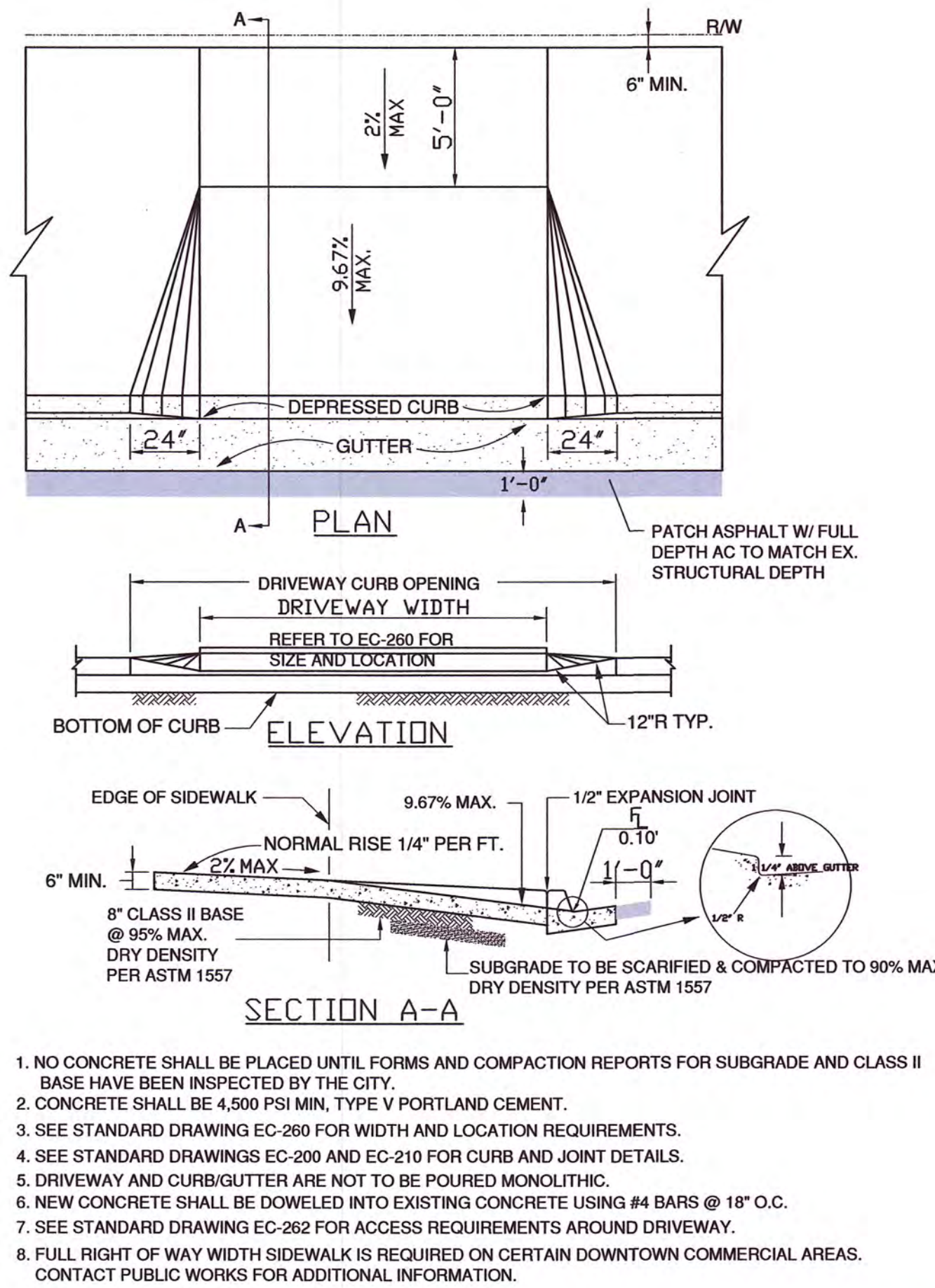
3 SIDE WALK, CURB & GUTTER REMOVAL AND REPLACEMENT



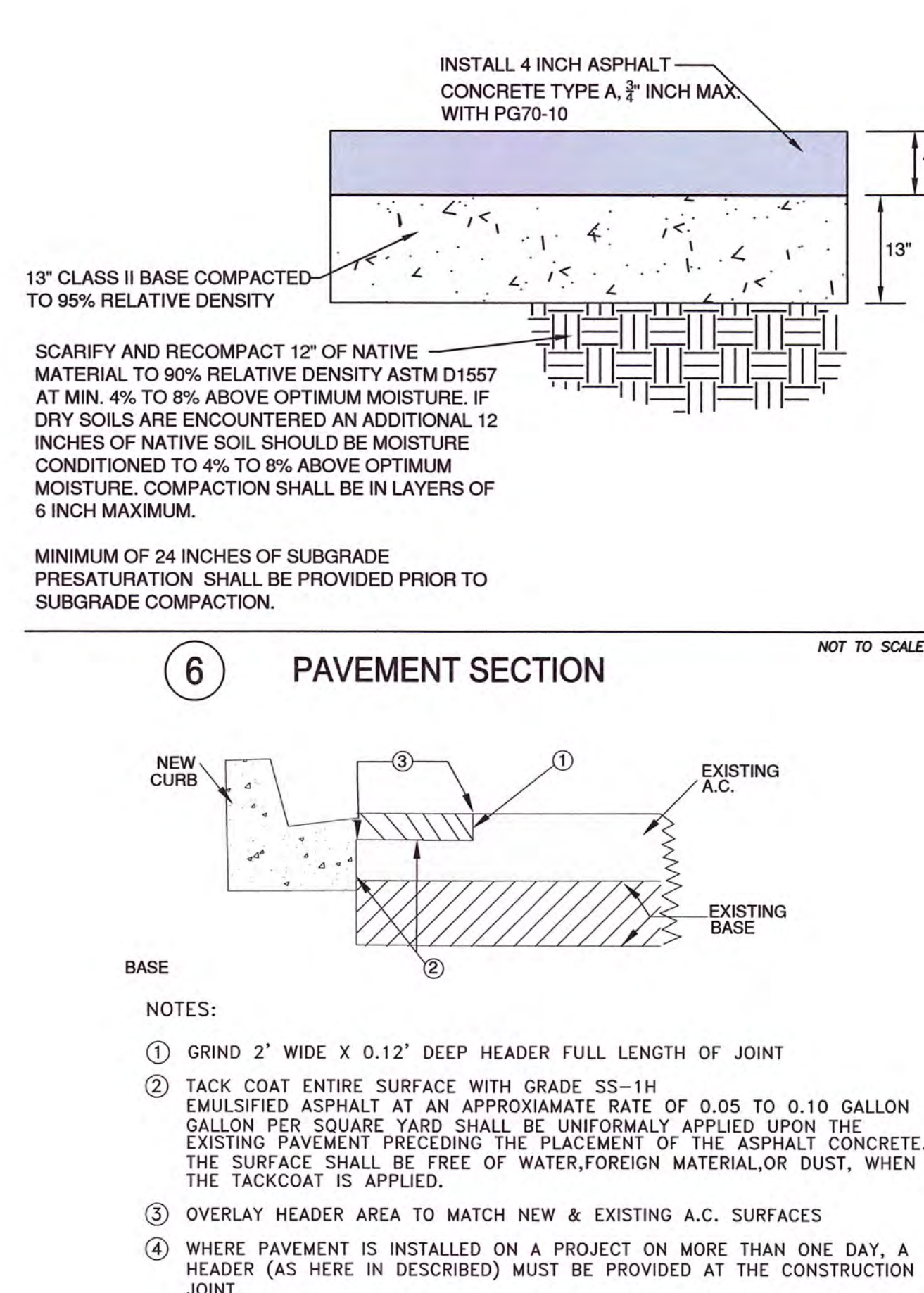
8 SPANDREL DETAIL



4 SIDEWALK DETAIL

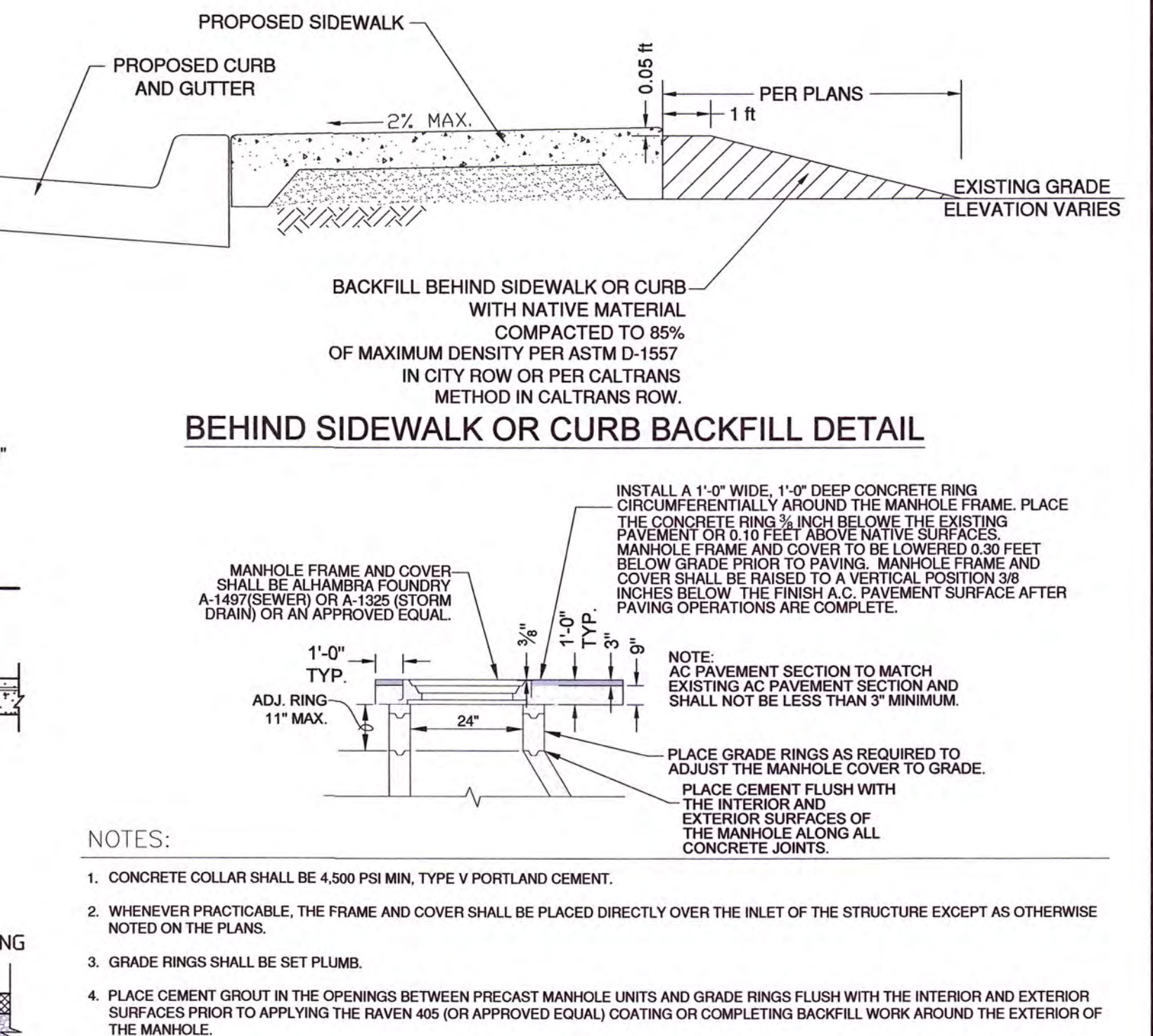


5 DRIVEWAY DETAIL



6 PAVEMENT SECTION

7 NEW CONSTRUCTION PAVEMENT EXTENSION JOINT



BEHIND SIDEWALK OR CURB BACKFILL DETAIL

SANITARY SEWER MANHOLE AND COVER ADJUSTMENT DETAIL

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2415 IMPERIAL BUSINESS DR. STE B, IMPERIAL CA 92251
TEL: (760) 545-0162 FAX: (760) 545-0163
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NO.	BY:	REVISION	COMMENTS

APPROVED FOR CONSTRUCTION:

ABRAHAM CAMPOS, P.E. No. 70281
CITY ENGINEER

DATE: 8/7/25

SEAL:

ENGINEER OF WORK:

CARLOS BELTRAN, P.E. No. 69121

DATE: 8/7/25

SEAL:

DRAWN BY: DB
CHECK BY: CB
DATE: 7/29/25
PROJECT:
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:

JACARANDA GARDENS PROJECT
AHSC GRANT
OFF SITE IMPROVEMENTS
IN THE CITY OF EL CENTRO

SHEET TITLE:

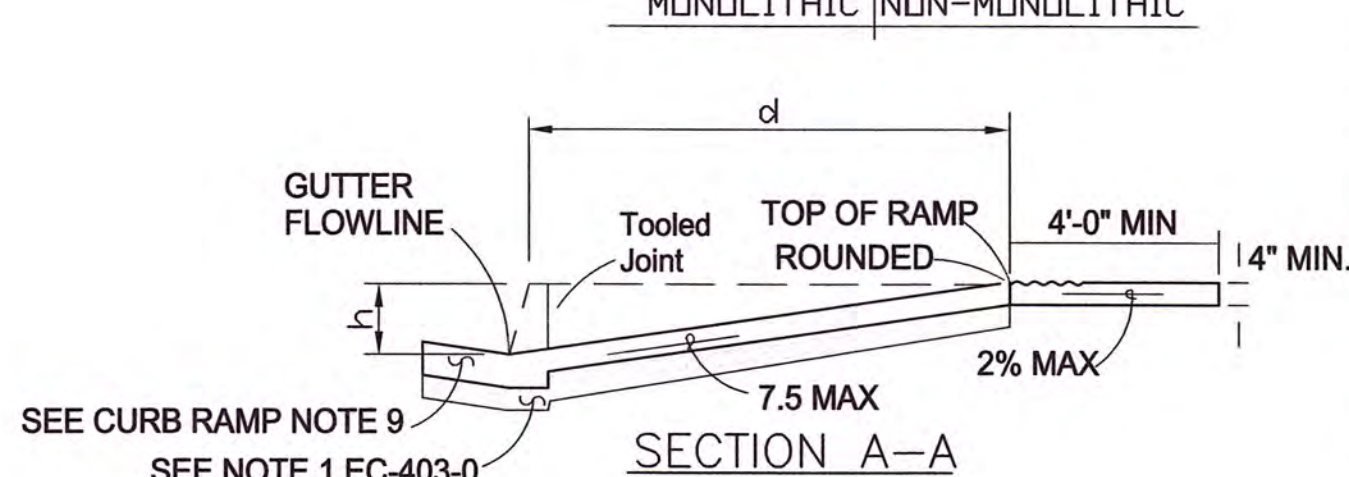
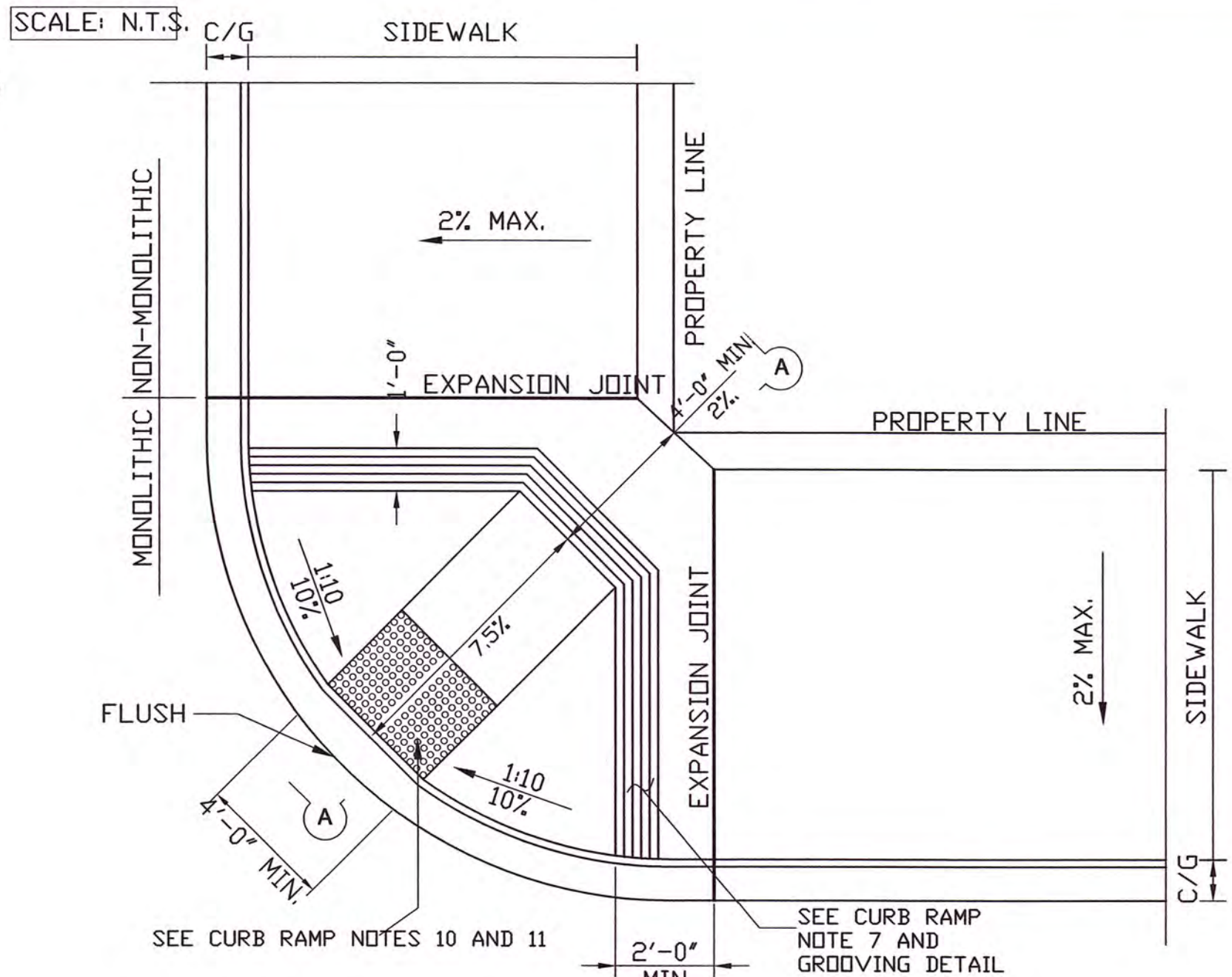
DETAILS

SHEET:

11 OF 14

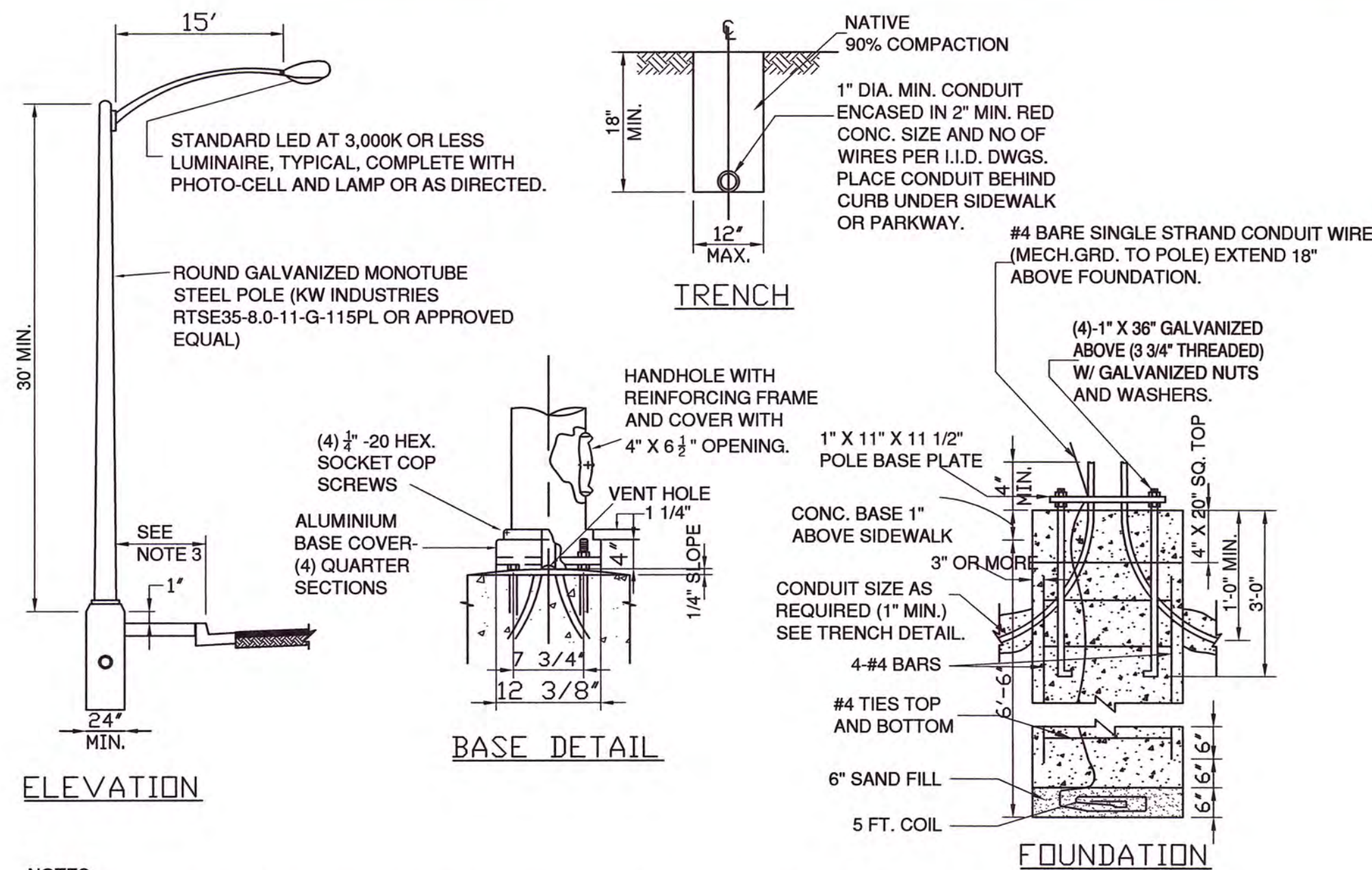
CURB RAMP NOTES

- Sidewalk and ramp shall be 4 inches P.C.C. and attain 4,000psi compressive strength after 28 day curing. Concrete shall be placed over 6" Class II base. Subgrade shall be scarified and recompacted to 90% max. dry density per ASTM 1557 with optimal moisture.
- If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-0" platform (landing) as shown in Case A (EC-403-2), the sidewalk may be depressed longitudinally as in case C (EC-403-7), or may be widened as in Case D (EC-403-11).
- When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B of the CALTRANS 2010 Revised Std. Plan RSP A88A & A88B.
- Prior to construction, the contractor shall determine and locate the existing right of way at curb ramps, see note 2 above. Modifications to the ramps shown is at the discretion of the City Engineer.
- If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-0".
- Side slope of ramp flares vary uniformly from a maximum of 10% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C.
- The curb ramp shall be outlined, as shown, with a 12" wide border with 1/4" grooves approximately 3/4" on center. See grooving detail EC-403-1.
- Transitions from ramps to walks, gutters or streets shall be flush and free of abrupt changes.
- Maximum slopes of adjoining gutters, the road surface immediately adjacent to the curb ramp and continuous passage to the curb ramp shall not exceed 5 percent within 4'-0" of the top or bottom of the curb ramp.
- Curb ramps shall have a detectable safety yellow warning surface that extends the full width and 3'-0" depth of the ramp. Detectable Warning Surfaces shall conform to the details shown in EC-403-1 and the requirements in the Caltrans Special Provisions. Detectable warning surface shall be cast in place Polymer Composite/Fiberglass Rigid Panels. Surface applied systems are to be used only at retrofit conditions and with the approval of the City Engineer.
- The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
- Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the contractor prior to, or in conjunction with, curb ramp construction. Approval for relocation shall be obtained from the City Engineer.
- For retrofit conditions, sawcut existing curb, gutter & sidewalk per EC-220. Also, existing corner monuments shall be tied and filed at the County of Imperial and re-placed by a licensed land surveyor.
- Concrete curb ramp and adjoining curb gutter shall be placed monolithic.
- All details used and/or modified per CALTRANS 2010 Revised Std. Plan RSP A88A
- Reference CALTRANS 2010 Revised Std. Plan RSP A88A & A88B for other conditions. More stringent condition shall apply; City Engineer has ultimate discretion.
- New concrete shall be doweled into existing concrete using #4 bars @ 18" O.C.
- All ramps will have a 1'-0" wide asphalt patch with full depth HMA to match existing structural depth.



h	d
4"	5'-6"
4 1/2"	5'-6"
5"	5'-6"
5 1/2"	5'-6"
6"	6'-0"
6 1/2"	6'-6"
7"	7'-0"
7 1/2"	7'-0"
8"	8'-0"

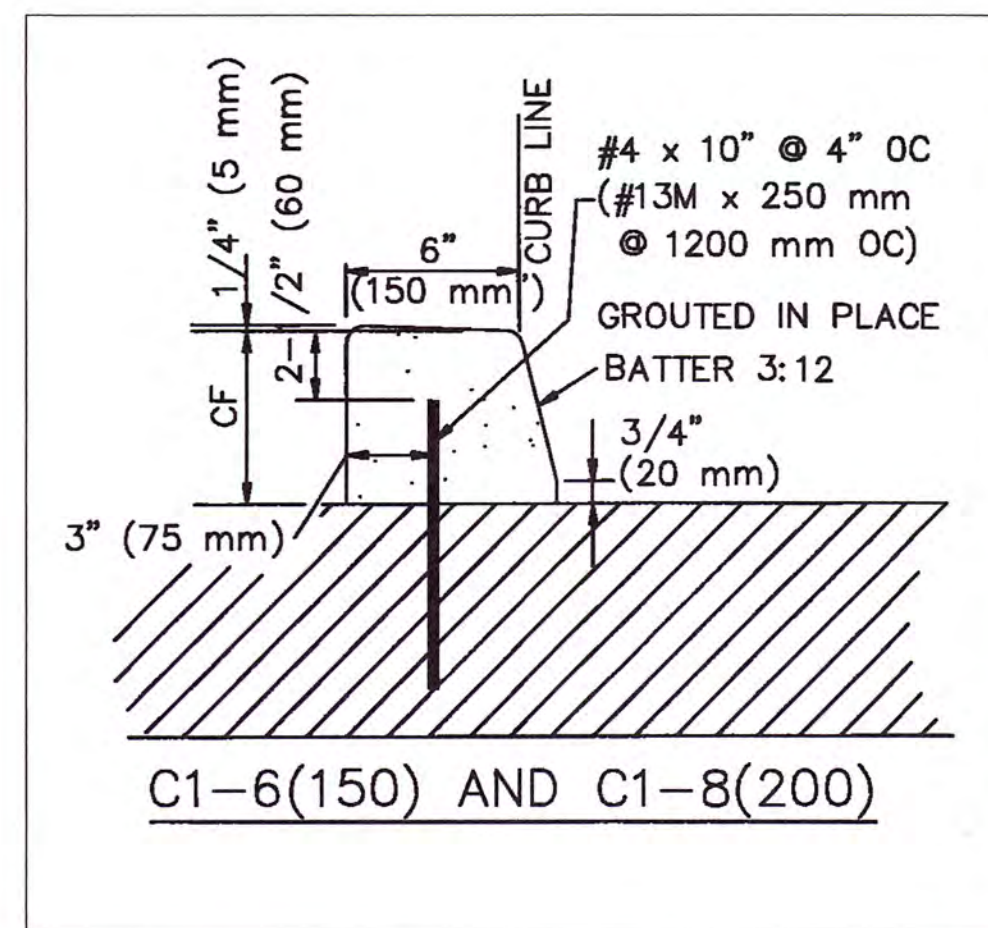
Contractor shall verify right of way limits prior to start of work.



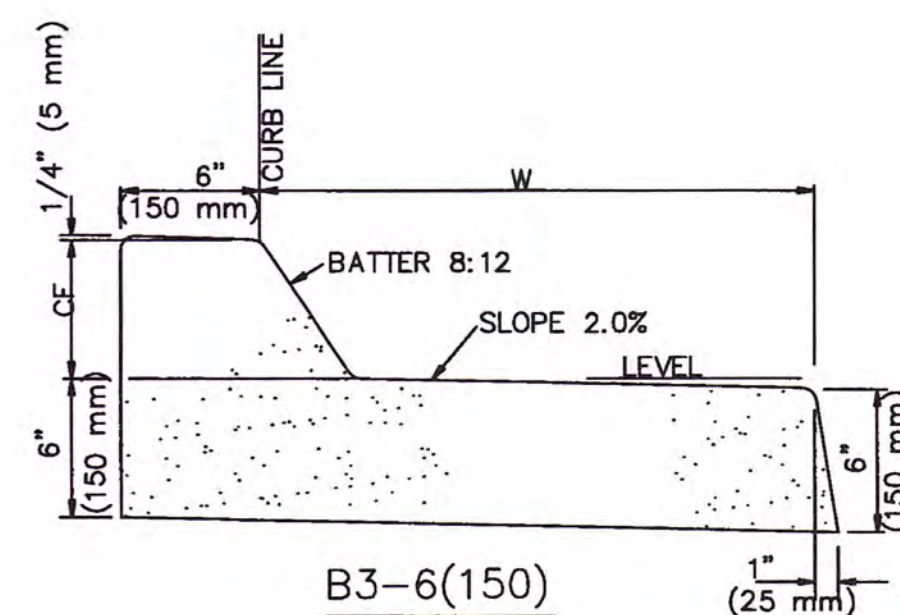
NOTES:

- 250 WATTS LUMINAIRE @ STREET INTERSECTIONS OR IN FRONT OF INTERSECTION & 100 WATTS @ OTHER LOCATIONS, OR SIMILAR LUMEN STRENGTH IF LED IS PROPOSED.
- #4 TIES TO BE @ 12" MIN. SEPARATION FROM TOP TO BOTTOM. SIDEWALL REBAR TO BE 3" OR MORE FROM EXCAVATION WALLS AND BOTTOM.
- 1'-6" @ AREAS W/PARKWAY OR NO SIDEWALK, 5'-6" ELSEWHERE.
- THIS DETAIL IS SUBJECT TO APPROVAL BY APPROPRIATE UTILITY AGENCY.
- FOUNDATION CONCRETE TO BE 4500 PSI MIN. STRENGTH AND POURED AGAINST UNDISTURBED OR COMPACTED SOIL.
- DRILL OR BORE INTO UNDISTURBED OR COMPACTED SOIL (95% OF MAX DRY DENSITY), SONOTUBES NOT ALLOWED.

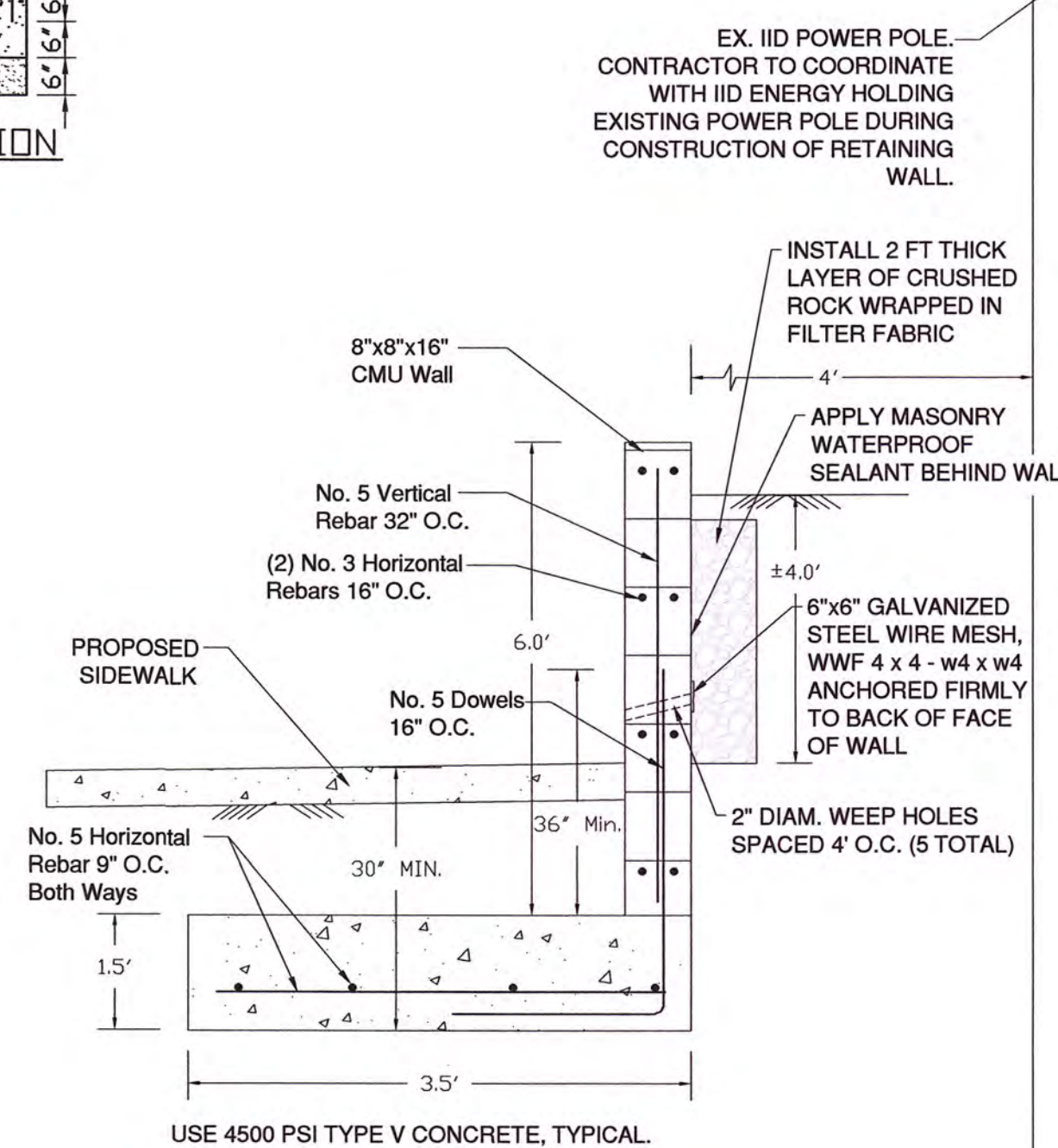
13 STREET LIGHT DETAIL



11 RAISED BARRIER CURB OVER EXISTING ASPHALT

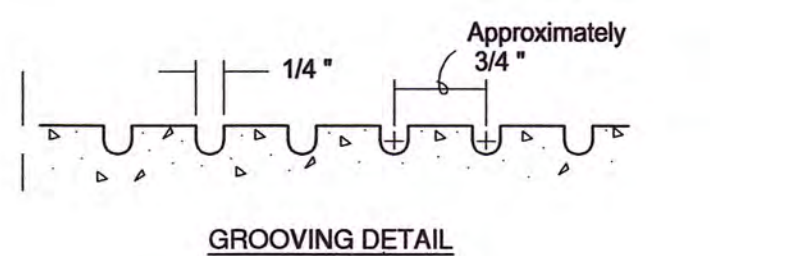


12 MODIFIED CURB DETAIL PER GREENBOOK DETAIL B3-6(150) STANDARD PLAN 121-2



EXPOSED SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF 18 INCHES, UNIFORMLY MOISTURE CONDITIONED TO 5% TO 10% ABOVE OPTIMUM AND RECOMPACTED TO 85% TO 90% OF THE MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH ASTM D1557 METHODS. SUBGRADE PREPARATION SHOULD EXTEND 18 INCHES IN ALL DIRECTIONS.

14 RETAINING WALL DETAIL

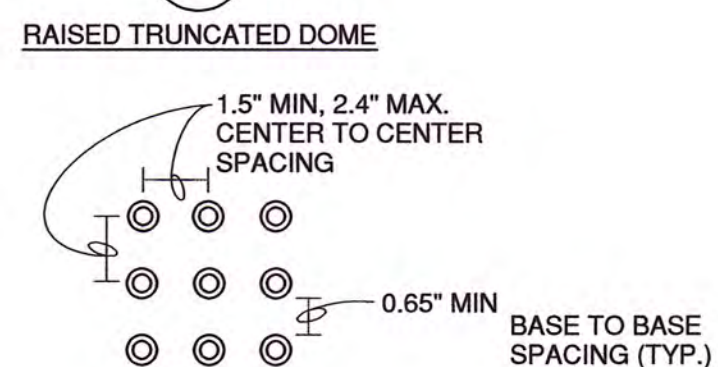


See Curb ramp Note 4 (EC-403-0)

0.2"

TOP DIA. MIN. 50% OF BASE DIA. MAX. 65% OF BASE DIA

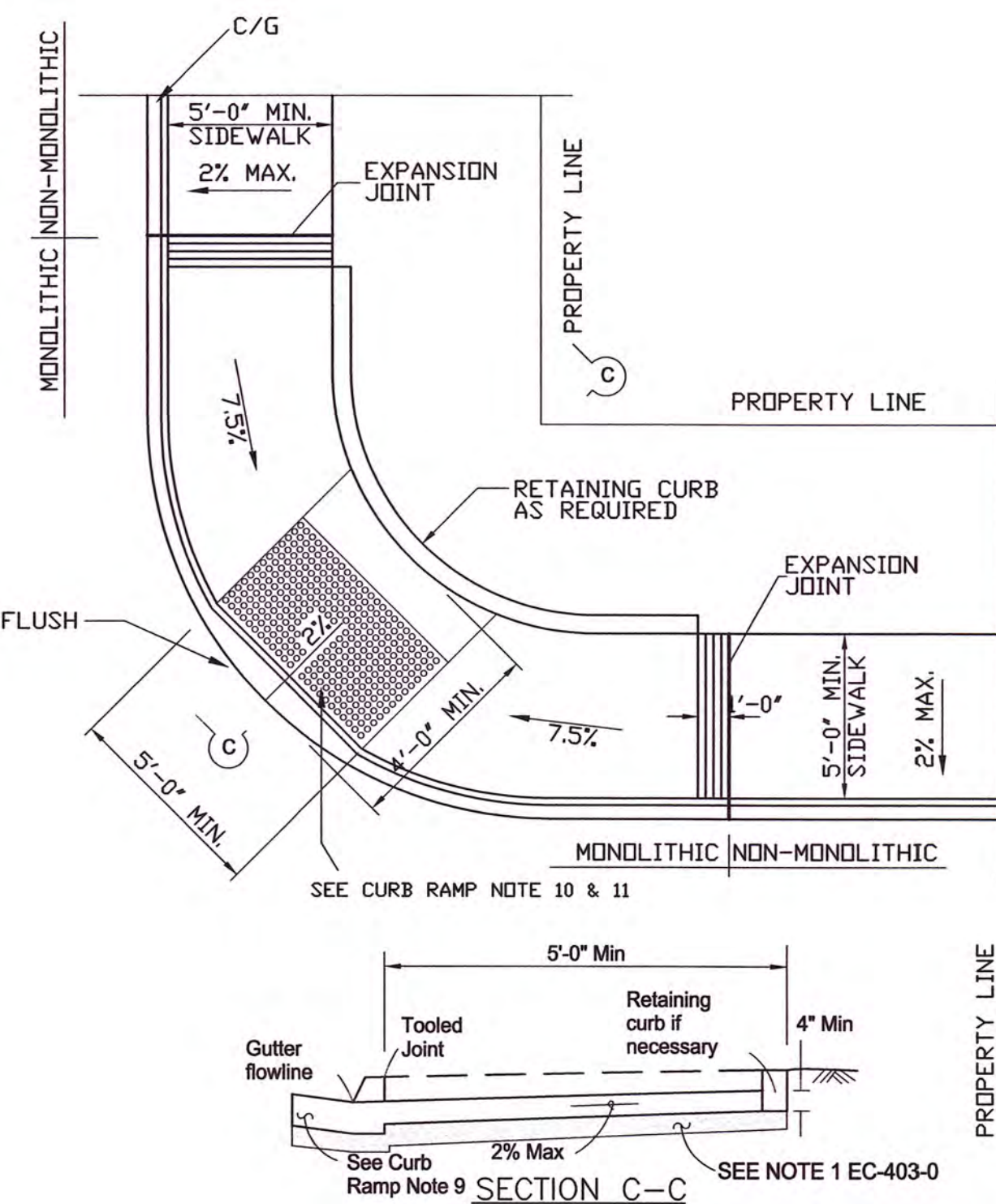
0.9" BASE DIA



DETECTABLE WARNING SURFACE

See Curb Ramp Note 10 (EC-403-0)

10 ACCESSIBLE RAMP



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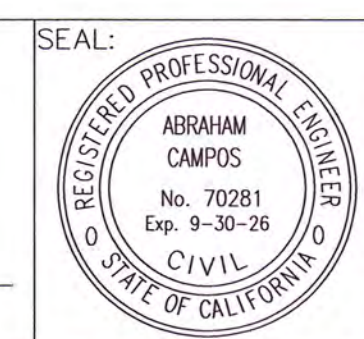


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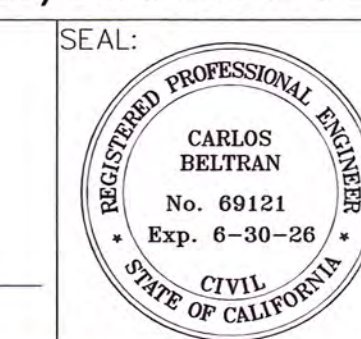


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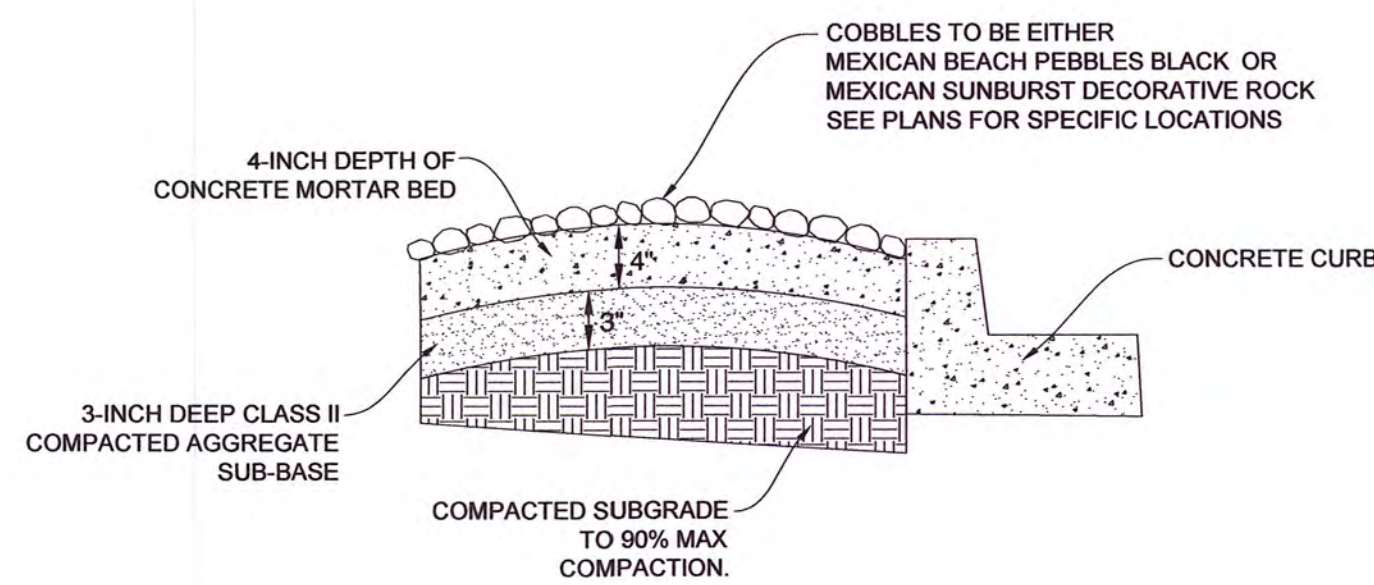
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MEXICAN BEACH PEBBLES BLACK
3" TO 5" DECORATIVE ROCK



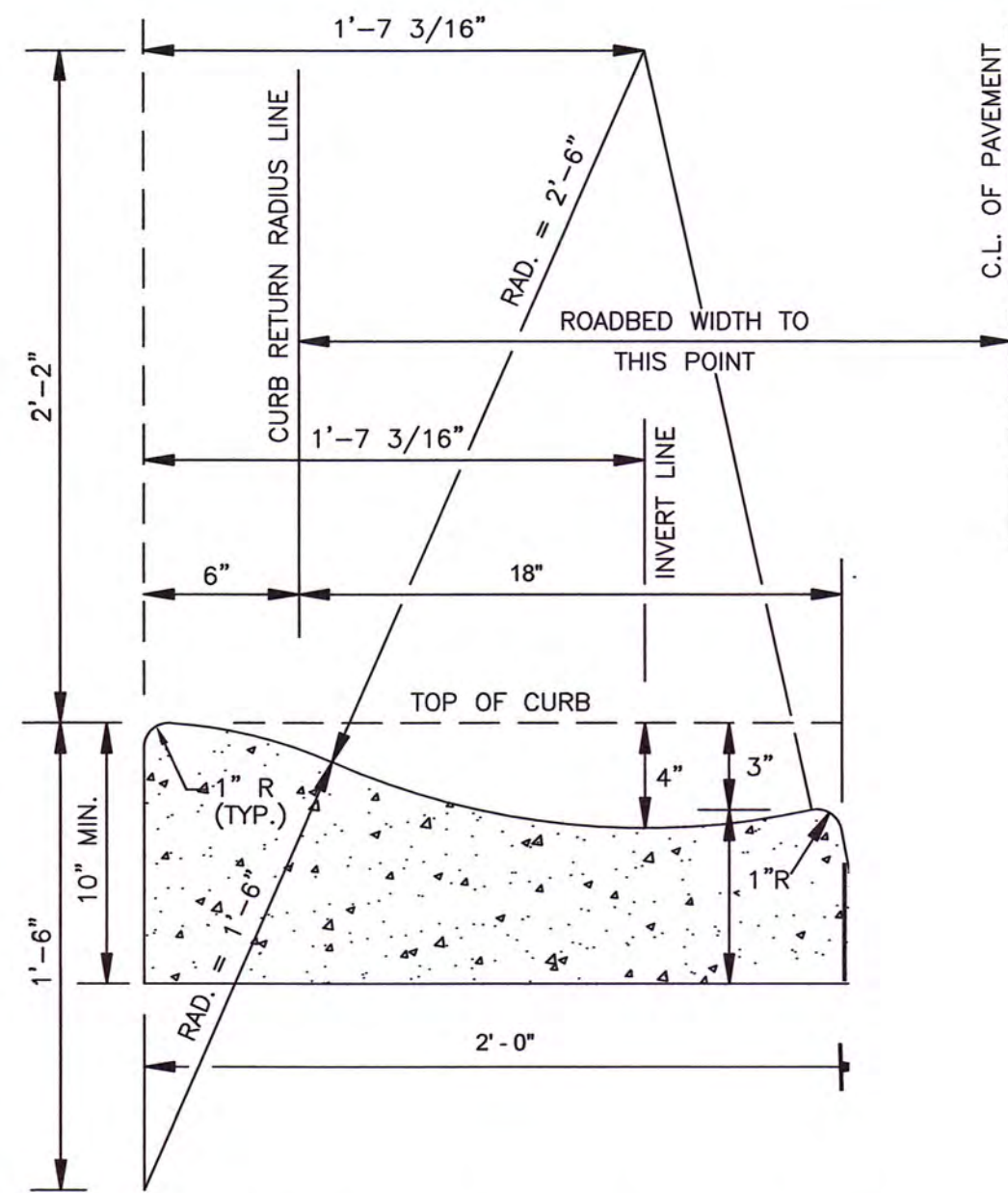
MEXICAN SUNBURST
3" TO 5" DECORATIVE ROCK



NOTES:

1. GRADE TO DRAIN TOWARDS ROADWAY
2. MINIMIZED VISIBLE EXPOSED GROUT AT COBBLE JOINTS
3. SURFACE OF COBBLE FIELD TO BE SMOOTH AND FLAT TO GRADE WITHOUT VARIATION IN HEIGHT OF INDIVIDUAL COBBLES
4. COBBLES WITH BREAKS OR FRACTURES ARE NOT ALLOWED
5. ROCK SHALL BE 'SATURATED SURFACE MOIST' (SSM) PRIOR TO PLACEMENT
6. CONCRETE MORTAR BED SHALL HAVE A CEMENT RATIO PER CUBIC YARD OF CONCRETE ON NOT LESS THAN 564 POUNDS: SLUMP MAX. OF 3", AGGREGATE SIZE $\frac{3}{4}$ " MAXIMUM.
7. COBBLE SHALL BE 3" TO 5" COBBLE. SET $\frac{1}{2}$ OF THE COBBLE DIAMETER INTO CEMENT GROUT

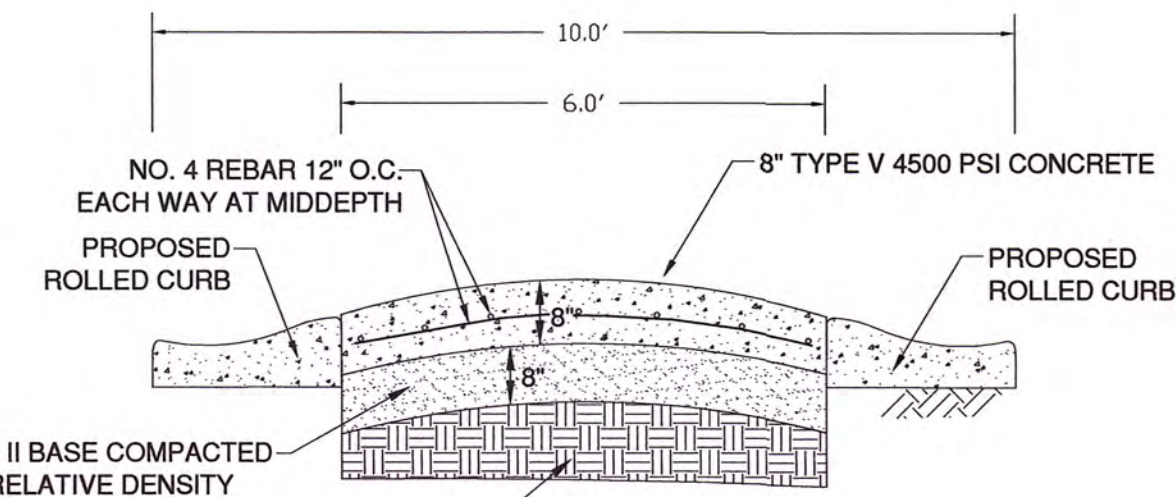
20 COBBLE SET IN CONCRETE DETAIL



NOTES:

1. CURB AND GUTTER SHALL BE CLASS "3" CONCRETE WHICH SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI IN ACCORDANCE WITH ASTM C39/C39M-99 AND SHALL CONTAIN 1-1/2 LBS. POLYPROPYLENE FIBER PER CUBIC YARD. FIBER BY FIBERMESH CO., FORTA MONO, O.A.E.
2. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 10-FOOT INTERVALS, EXCEPT THAT THE INTERVAL SHALL BE VARIED TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS.
3. CURING COMPOUND SHALL BE CURE-TREAT (CONCRETE CONDITIONER AND CURING AID) AS MANUFACTURED BY W.R. MEADOWS, INC. OR APPROVED EQUAL. COMPOUND SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION.
4. WHEN CURB AND GUTTER IS PLACED BY AN EXTRUSION MACHINE MINOR FINISHING SHALL BE DONE TO PROVIDE AN ACCEPTABLE FINISH AND THE WEAKENED PLANE JOINT MAY BE SAWCUT.
5. ALL STREET AND ALLEY DRAINAGE SLOPE SHALL BE NOT LESS THAN 0.10%.
6. ALL METAL FORM STAKES MUST HAVE PROTECTIVE DEVICES SUCH AS "MUSHROOMS" INSTALLED AT ALL TIMES DURING USE, TO ADEQUATELY INSURE THE PUBLIC SAFETY.
7. N/A
8. THE CURB EDGES SHALL BE PLACED TRUE TO LINE AND GRADE. VERTICAL ELEVATIONS SHALL NOT VARY MORE THAN $\pm 0.01'$ WITH A MAXIMUM VARIANCE OF 0.02' FROM DESIGN GRADE OCCURRING IN ANY GIVEN 100 FEET SECTION. THE HORIZONTAL CURB EDGES SHALL NOT VARY MORE THAN 1/4" INCH IN ANY GIVEN 100 FOOT SECTION.

21 ROLLED CURB DETAIL



22 CONCRETE MEDIAN DETAIL AT CROSSING

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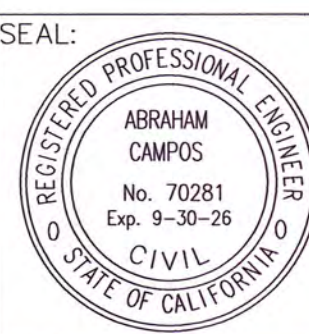


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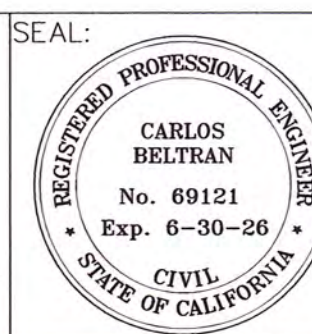


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OF
14

