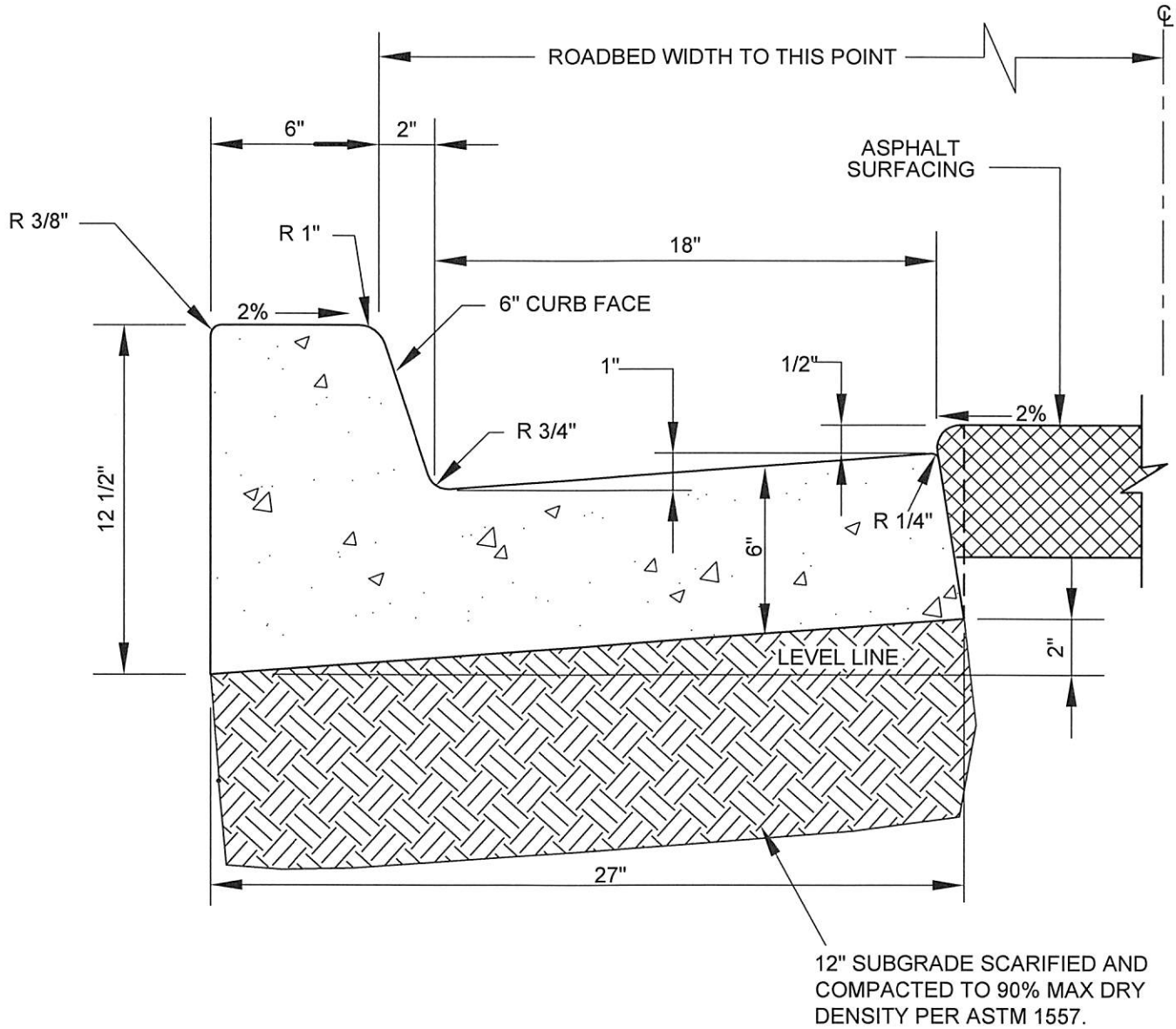


SCALE: N.T.S.



**NOTES:**

- REFER TO CURB & GUTTER JOINTS STANDARDS EC-210 FOR EXPANSION AND WEAKENED PLANE JOINTS
- USE 4000 PSI CONCRETE

- NO CONCRETE SHALL BE PLACED UNTIL ALL FORMS/STRINGLINE AND SUBGRADE COMPACTION REPORTS HAVE BEEN INSPECTED AND APPROVED BY THE CITY.
- NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE USING #4 BARS @ 18" O.C.

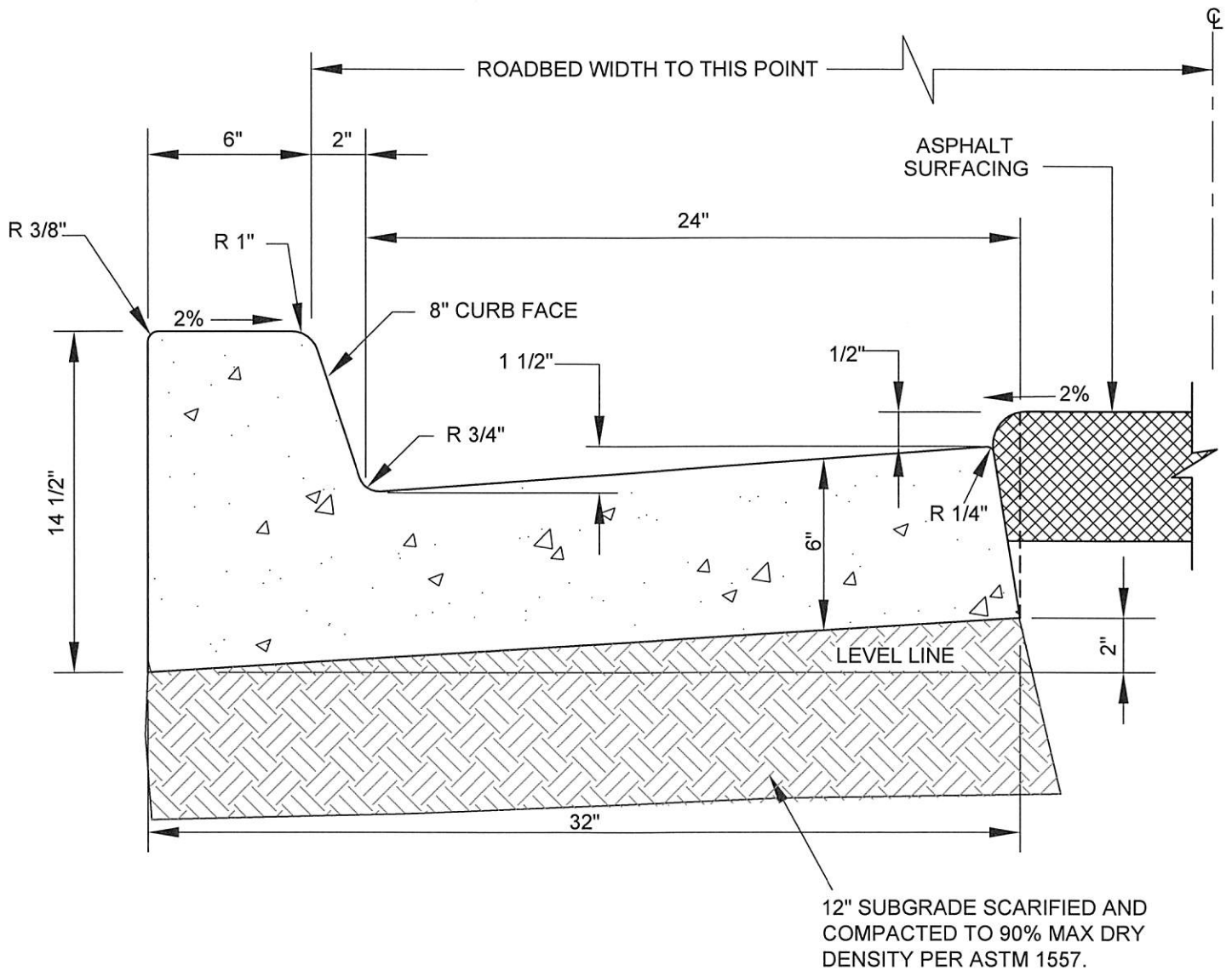


REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

APPROVED BY THE CITY OF EL CENTRO PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION		
<i>[Signature]</i>	R.C.E. 70281	05.29.15
ABRAHAM CAMPOS, P.E. SENIOR ENGINEER		DATE
<i>[Signature]</i>	R.C.E. 24740	05.29.15
TERRY L. HAGEN, P.E. DIRECTOR OF PUBLIC WORKS		DATE

<b>CITY OF EL CENTRO</b> PUBLIC WORKS DEPARTMENT	
<b>TYPE A-6 CURB</b>	
DWG NO.	<b>EC-200</b>

SCALE: N.T.S.



**NOTES:**

- REFER TO CURB & GUTTER JOINTS STANDARDS EC-210 FOR EXPANSION AND WEAKENED PLANE JOINTS
- USE 4,000 PSI CONCRETE

- NO CONCRETE SHALL BE PLACED UNTIL ALL FORMS/STRINGLINE AND SUBGRADE COMPACTION REPORTS HAVE BEEN INSPECTED AND APPROVED BY THE CITY.
- NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE USING #4 BARS @ 18" O.C.



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

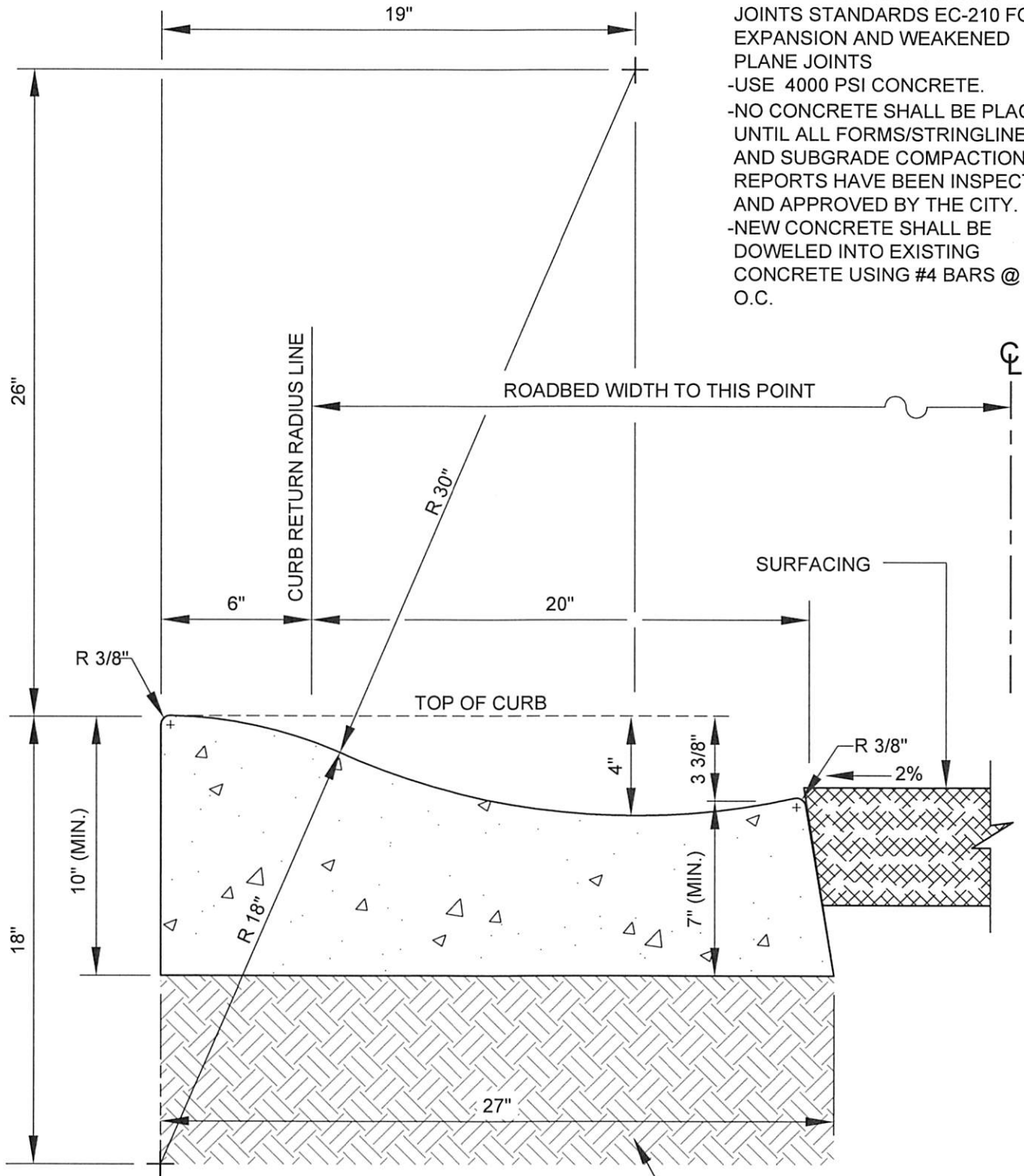
APPROVED BY THE CITY OF EL CENTRO PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION		
<i>Abraham Campos</i>	R.C.E. 70281	05.29.15
ABRAHAM CAMPOS, P.E. SENIOR ENGINEER		DATE
<i>Terry L. Hagen</i>	R.C.E. 24740	05.29.15
TERRY L. HAGEN, P.E. DIRECTOR OF PUBLIC WORKS		DATE

CITY OF EL CENTRO PUBLIC WORKS DEPARTMENT	
<b>TYPE A-8 CURB</b>	
DWG NO.	EC-201

SCALE: N.T.S.

**NOTES:**

- REFER TO CURB & GUTTER JOINTS STANDARDS EC-210 FOR EXPANSION AND WEAKENED PLANE JOINTS
- USE 4000 PSI CONCRETE.
- NO CONCRETE SHALL BE PLACED UNTIL ALL FORMS/STRINGLINE AND SUBGRADE COMPACTION REPORTS HAVE BEEN INSPECTED AND APPROVED BY THE CITY.
- NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE USING #4 BARS @ 18" O.C.



12" SUBGRADE SCARIFIED AND COMPACTED TO 90% MAX DRY DENSITY PER ASTM 1557.



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

*Abraham Campos*  
ABRAHAM CAMPOS, P.E.  
SENIOR ENGINEER  
R.C.E. 70281 05.29.15  
DATE

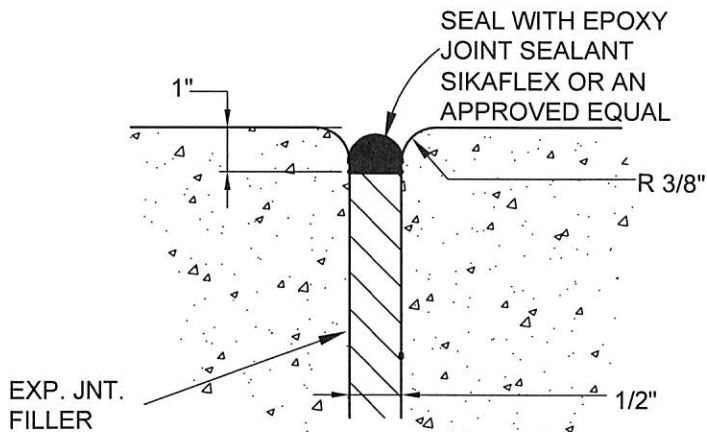
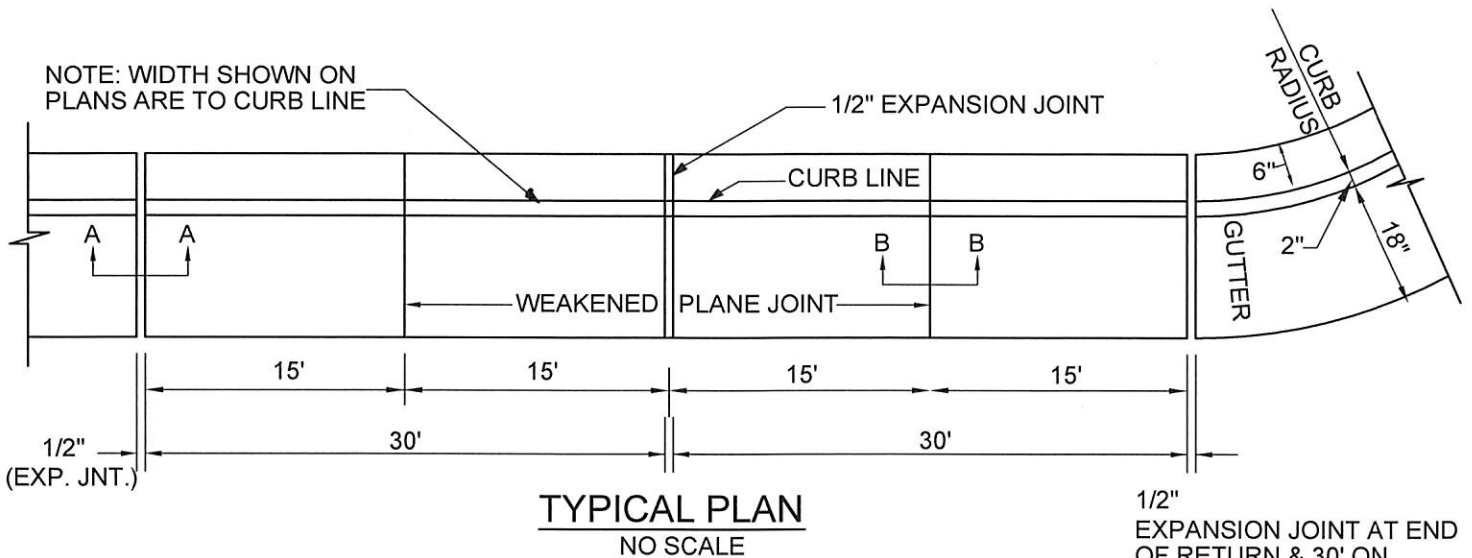
*Terry L. Hagen*  
TERRY L. HAGEN, P.E.  
DIRECTOR OF PUBLIC WORKS  
R.C.E. 24740 05.29.15  
DATE

**CITY OF EL CENTRO**  
PUBLIC WORKS DEPARTMENT

**ROLLED CURB**

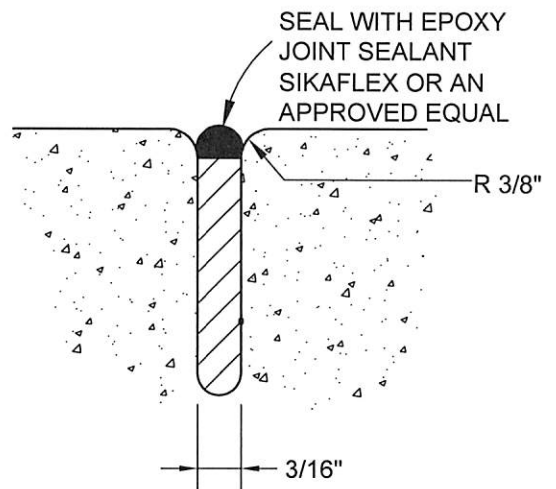
DWG NO. **EC-202**

SCALE: N.T.S.



**SECTION A-A**  
**EXPANSION JOINT**

EXPANSION JOINT TO BE INSTALLED AT ALL B.C.'S, E.C.'S, CURB RETURNS, AND STRUCTURES.



**SECTION B-B**  
**WEAKENED PLANE JOINT**

15' MAX INTERVAL BETWEEN TRANSVERSE JOINTS MAY BE VARIED TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS.



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

*Abraham Campos*  
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DATE  
ABRAHAM CAMPOS, P.E.  
SENIOR ENGINEER

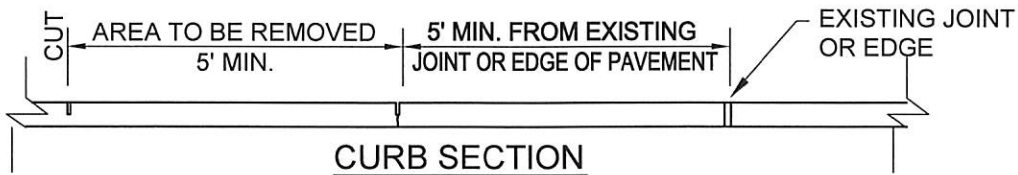
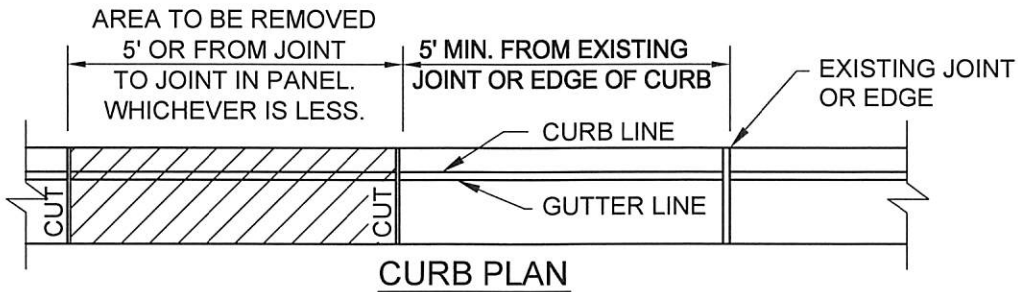
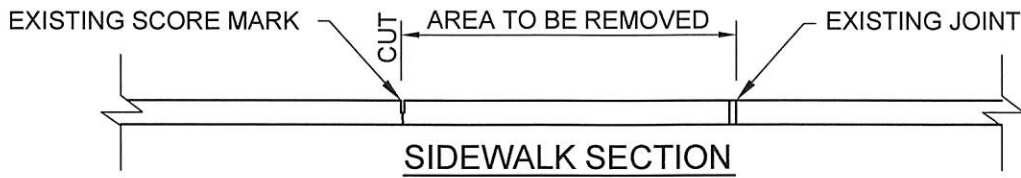
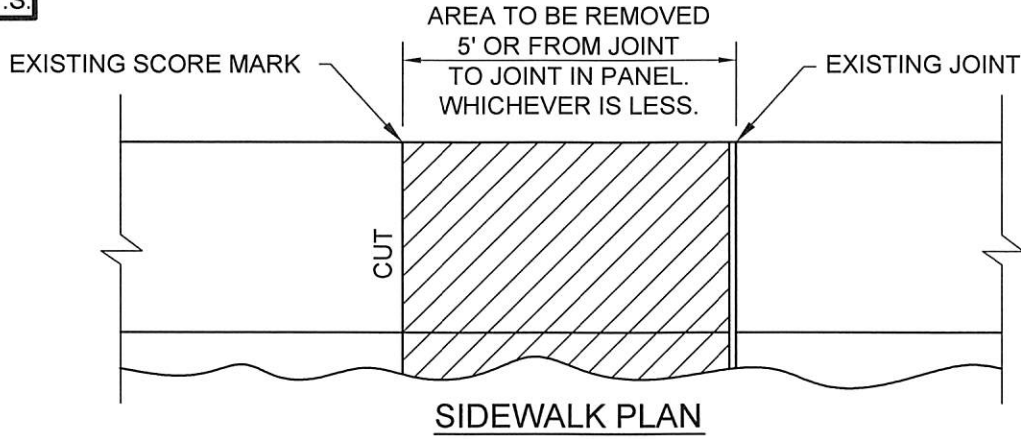
*Terry L. Hagen*  
R.C.E. 24740 05.29.15  
DATE  
TERRY L. HAGEN, P.E.  
DIRECTOR OF PUBLIC WORKS

**CITY OF EL CENTRO**  
PUBLIC WORKS DEPARTMENT

**CURB & GUTTER JOINTS**

DWG NO. **EC-210**

SCALE: N.T.S.

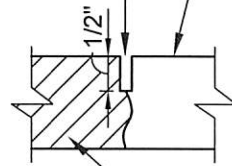


**NOTE**

WHENEVER POSSIBLE "AREA TO BE REMOVED" SHALL BE EXTENDED TO JOINT, EDGE OR SCORE MARK. FINAL DETERMINATION SHALL BE MADE BY CITY ENGINEER.

REMAINING EDGE TO BE SMOOTH AND TRUE WITH NO SHATTER

SAW CUT



CONCRETE TO BE REMOVED.

**SECTION SHOWING CUT**



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

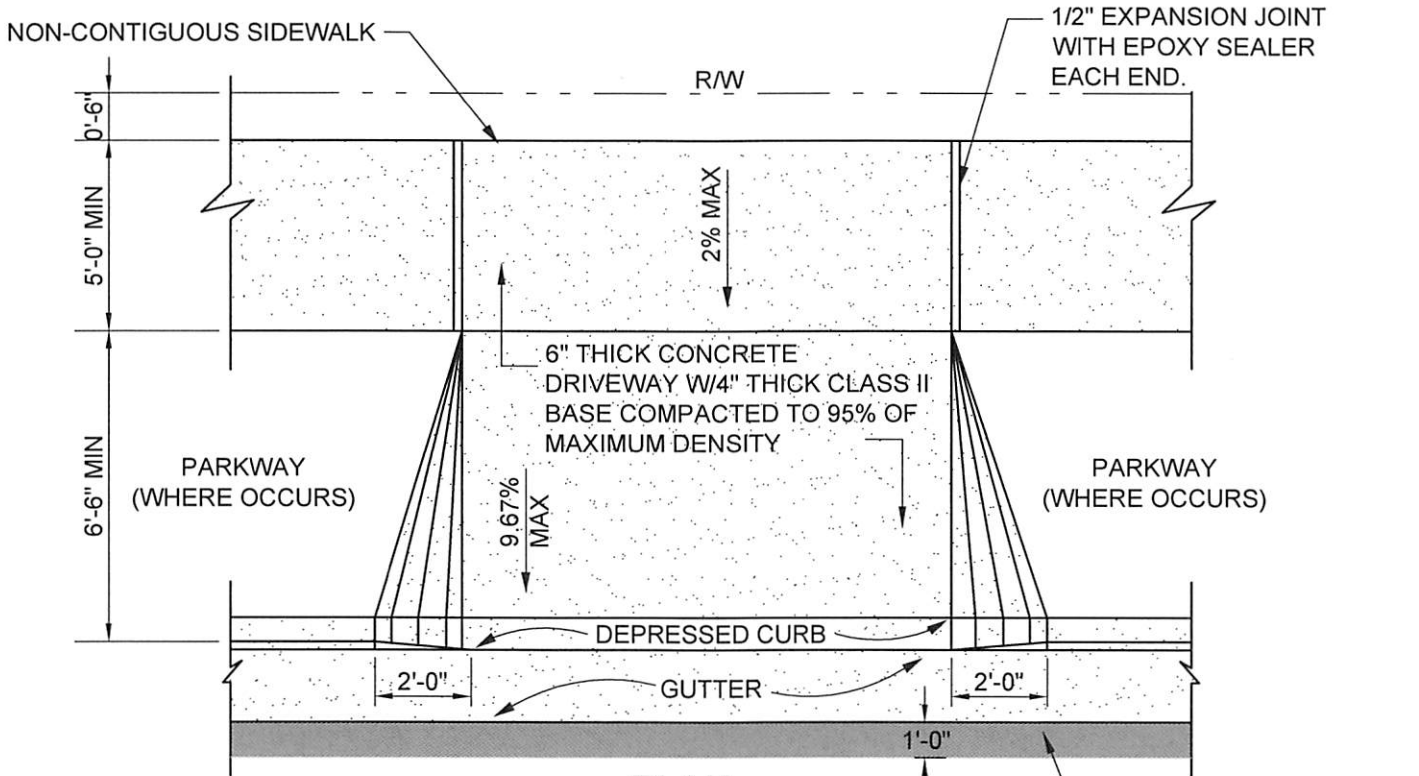
*[Signature]* R.C.E. 70281 05.29.15  
ABRAHAM CAMPOS, P.E.  
SENIOR ENGINEER DATE

*[Signature]* R.C.E. 24740 05.29.15  
TERRY L. HAGEN, P.E.  
DIRECTOR OF PUBLIC WORKS DATE

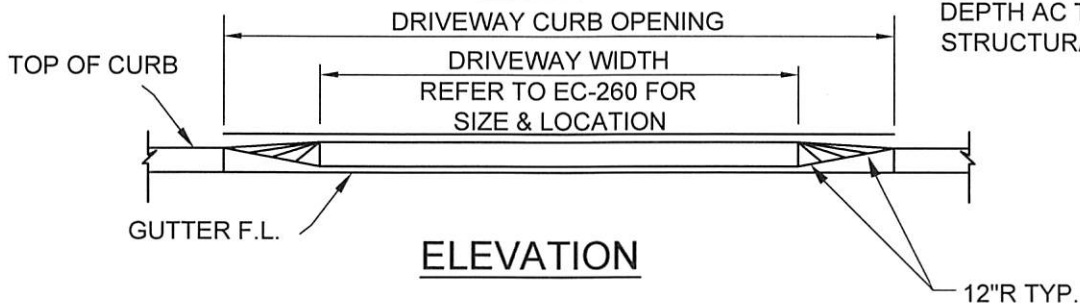
**CITY OF EL CENTRO**  
PUBLIC WORKS DEPARTMENT

**CONCRETE CURB, GUTTER,  
SIDEWALK AND PAVEMENT  
REMOVAL AND REPLACEMENT**

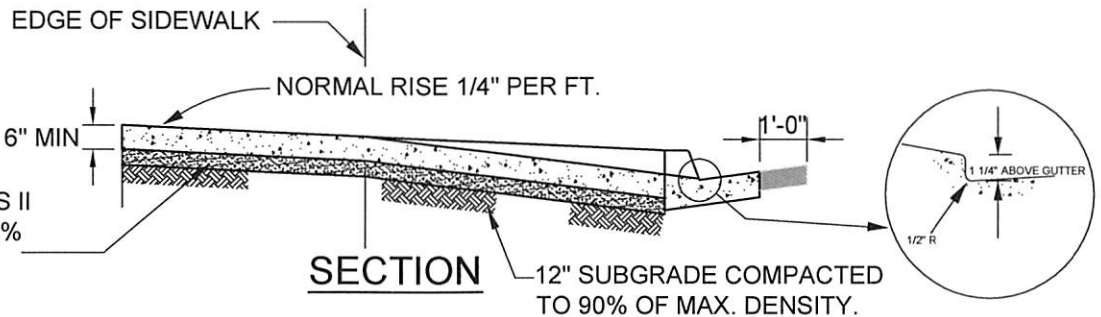
DWG NO. **EC-220**



**PLAN**



**ELEVATION**



**SECTION**

MINIMUM 6" THICK CLASS II BASE COMPACTED TO 95% OF MAX. DRY DENSITY UNDER DRIVEWAY

1. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND COMPACTION REPORTS FOR SUBGRADE AND CLASS II BASE HAVE BEEN INSPECTED BY THE CITY.
2. CONCRETE SHALL BE 4,000 PSI MIN
3. SEE STANDARD DRAWING EC-260 FOR WIDTH AND LOCATION REQUIREMENTS.
4. SEE STANDARD DRAWINGS EC-200 AND EC-210 FOR CURB AND JOINT DETAILS.
5. DRIVEWAY AND CURB/GUTTER ARE NOT TO BE POURED MONOLITHIC.
6. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE USING #4 BARS @ 18" O.C.
7. SEE STANDARD DRAWING EC-262 FOR ACCESS REQUIREMENTS AROUND DRIVEWAY.



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

ABRAHAM CAMPOS, P.E.  
SENIOR ENGINEER  
R.C.E. 70281 05.29.15 DATE

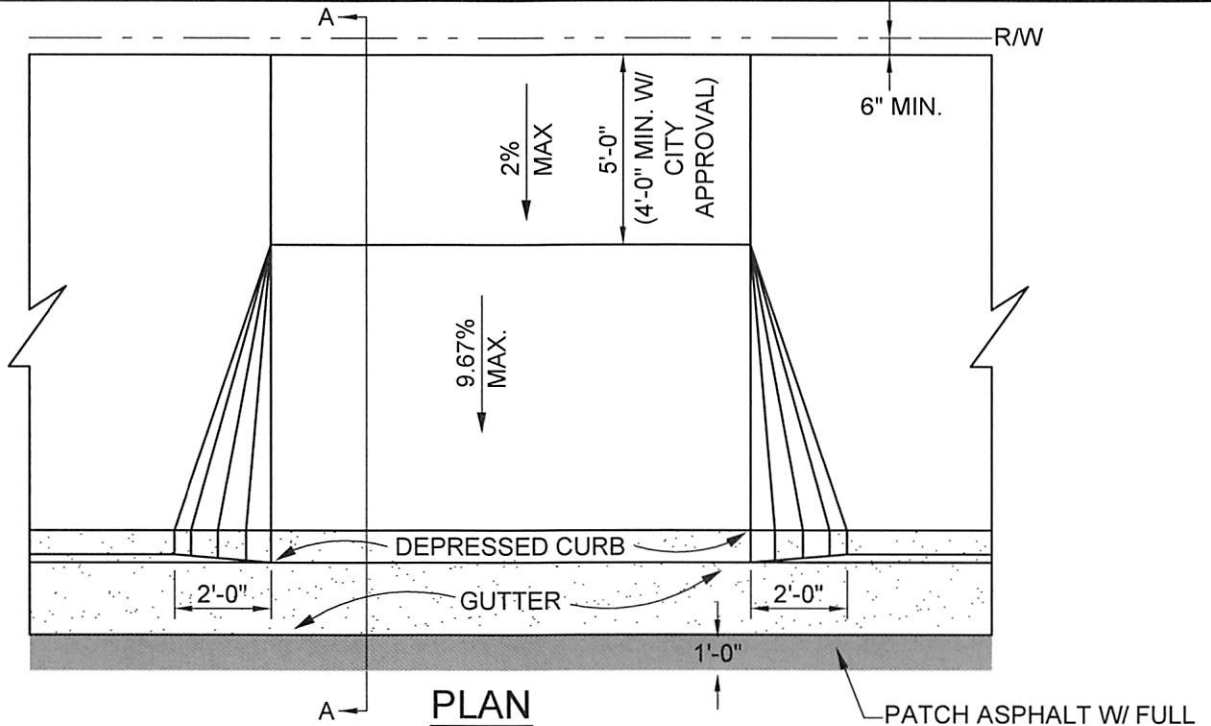
TERRY L. HAGEN, P.E.  
DIRECTOR OF PUBLIC WORKS  
R.C.E. 24740 05.29.15 DATE

**CITY OF EL CENTRO**  
PUBLIC WORKS DEPARTMENT

**RESIDENTIAL CONCRETE DRIVEWAY**

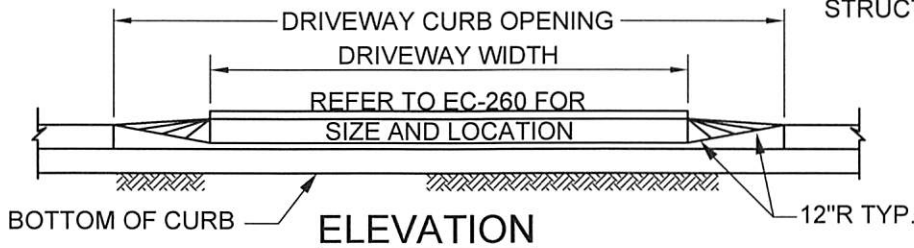
DWG NO. **EC-230**

SCALE: N.T.S.

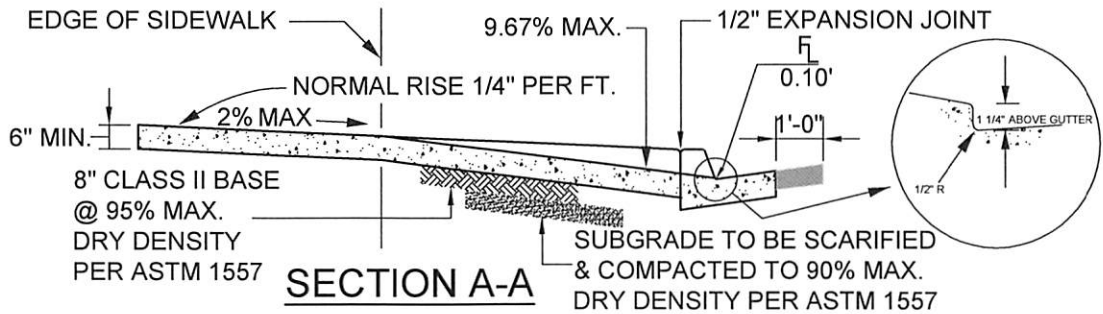


**PLAN**

PATCH ASPHALT W/ FULL DEPTH AC TO MATCH EX. STRUCTURAL DEPTH



**ELEVATION**



**SECTION A-A**

1. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND COMPACTION REPORTS FOR SUBGRADE AND CLASS II BASE HAVE BEEN INSPECTED BY THE CITY.
2. CONCRETE SHALL BE 4,000 PSI MIN
3. SEE STANDARD DRAWING EC-260 FOR WIDTH AND LOCATION REQUIREMENTS.
4. SEE STANDARD DRAWINGS EC-200 AND EC-210 FOR CURB AND JOINT DETAILS.
5. DRIVEWAY AND CURB/GUTTER ARE NOT TO BE POURED MONOLITHIC.
6. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE USING #4 BARS @ 18" O.C.
7. SEE STANDARD DRAWING EC-262 FOR ACCESS REQUIREMENTS AROUND DRIVEWAY.
8. FULL RIGHT OF WAY WIDTH SIDEWALK IS REQUIRED ON CERTAIN DOWNTOWN COMMERCIAL AREAS. CONTACT PUBLIC WORKS FOR ADDITIONAL INFORMATION.



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

*[Signature]*  
R.C.E. 70281 05.29.15  
DATE

ABRAHAM CAMPOS, P.E.  
SENIOR ENGINEER

*[Signature]*  
R.C.E. 24740 05.29.15  
DATE

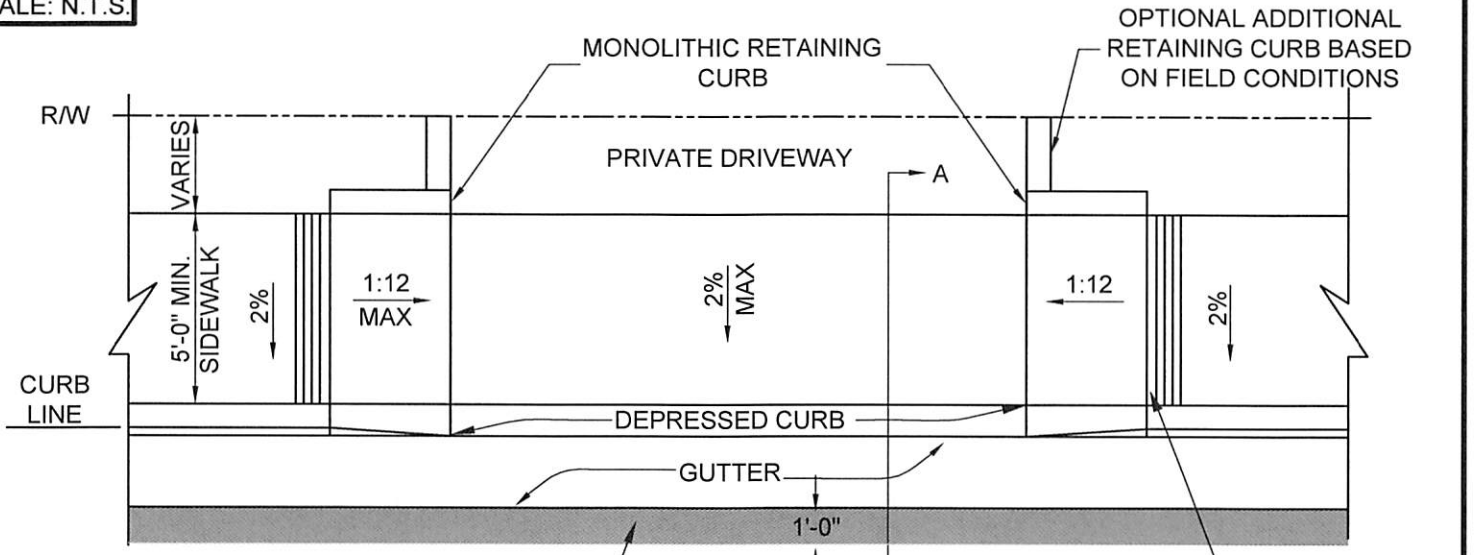
TERRY L. HAGEN, P.E.  
DIRECTOR OF PUBLIC WORKS

**CITY OF EL CENTRO**  
PUBLIC WORKS DEPARTMENT

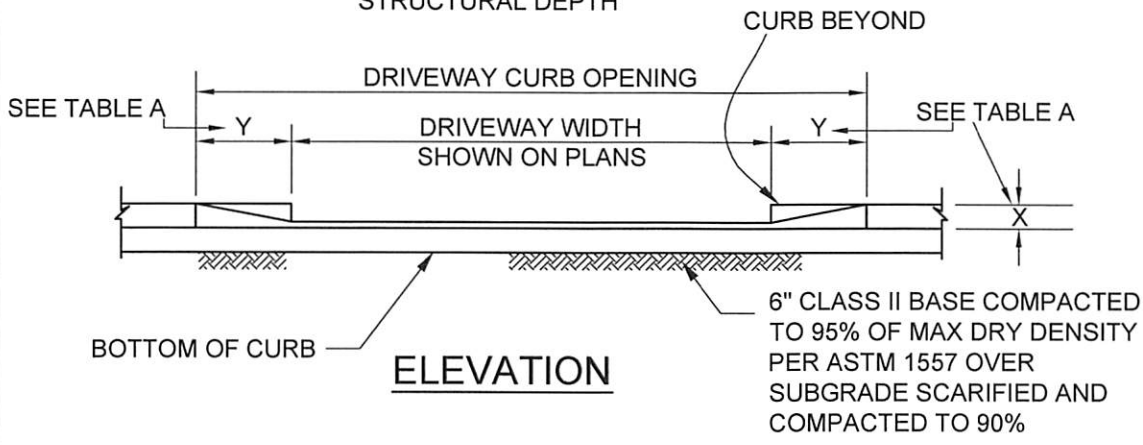
**COMMERCIAL CONCRETE DRIVEWAY**  
(CONTIGUOUS SIDEWALK)

DWG NO. **EC-240**

SCALE: N.T.S.

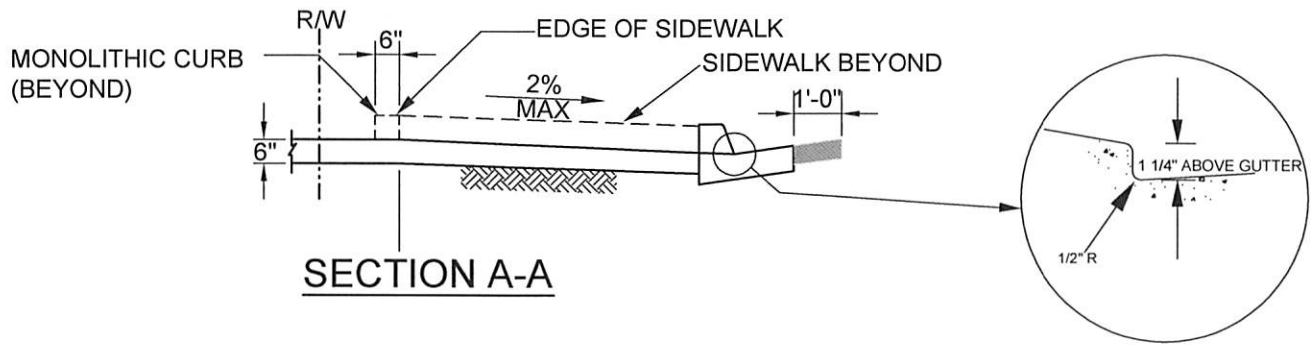


**PLAN**



**ELEVATION**

TABLE A	
X CURB HEIGHT	Y RAMP LENGHT
1"	0'-6"
2"	1'-6"
3"	2'-6"
4"	3'-6"
5"	4'-6"
6"	5'-6"
7"	6'-6"
8"	7'-6"



**SECTION A-A**

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4. SEE STANDARD DRAWINGS EC-200 AND EC-210 FOR CURB AND JOINT DETAILS.
5. DRIVEWAY AND CURB/GUTTER ARE NOT TO BE POURED MONOLITHIC.
6. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE USING #4 BARS @ 18" O.C.



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REV. 1	AC/JF	J.F./J.G.M.	05/29/15

APPROVED BY THE CITY OF EL CENTRO  
PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

*Abraham Campos*  
R.C.E. 70281 05.29.15  
DATE  
ABRAHAM CAMPOS, P.E.  
SENIOR ENGINEER

*Terry L. Hagen*  
R.C.E. 24740 05.29.15  
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TERRY L. HAGEN, P.E.  
DIRECTOR OF PUBLIC WORKS

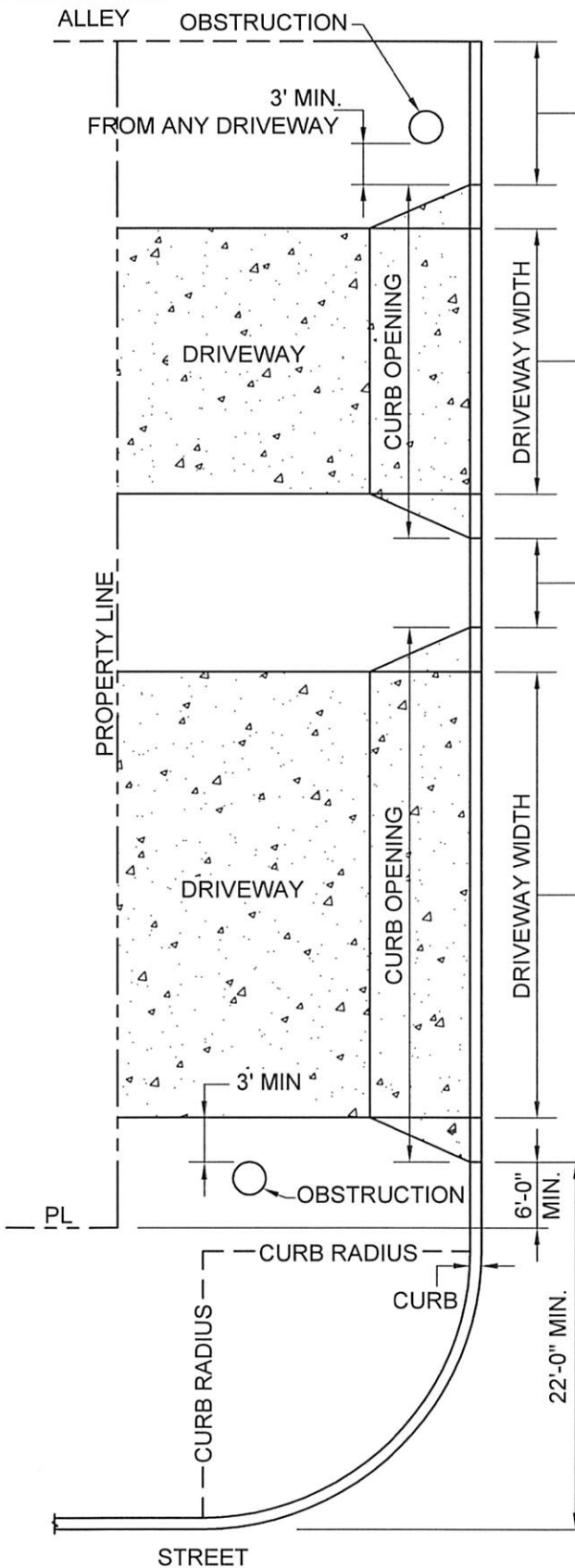
**CITY OF EL CENTRO**  
PUBLIC WORKS DEPARTMENT

**CONCRETE DRIVEWAY**  
FOR CONFINED RIGHT-OF-WAY

DWG NO. **EC-250**



SCALE: N.T.S.



6' MIN. FROM ALLEY OR DRAINAGE OUTLET.

RESIDENTIAL DRIVEWAY WIDTH 10' MIN., 26' MAX.

RESIDENTIAL : 60' MIN. BETWEEN CURB OPENINGS SERVING SAME PARCEL  
 COMMERCIAL: 60' MIN. BETWEEN CURB OPENINGS SERVING SAME PARCEL.

COMMERCIAL DRIVEWAY WIDTH 10' MIN., 32' MAX.

NOTES:

1. CURB OPENINGS, EXCEPT FOR JOINT-USE DRIVEWAYS AND DRIVEWAYS ON LOTS HAVING 21'- FRONTAGE OR LESS, SHALL BE LOCATED AT LEAST 3' FROM THE SIDE PROPERTY LINE EXTENDED.
2. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER, NOT MORE THAN 40% OF THE PROPERTY FRONTAGE ON RESIDENTIAL LOTS, NOR 60% OF THE PROPERTY FRONTAGE ON COMMERCIAL LOTS MAY BE ALLOCATED FOR DRIVEWAY CURB OPENINGS, EXCEPT THAT LOTS HAVING FRONTAGE OF LESS THAN 45' ARE ENTITLED TO ONE 10' DRIVEWAY. (14' CURB OPENING)
3. ALL DRIVEWAYS AND CURB OPENINGS SHALL BE A MINIMUM OF 3' FROM ANY OBSTRUCTION, I.E., POLES, HYDRANTS, ETC.
4. NO PORTION OF ANY DRIVEWAY SHALL BE ALLOWED ACROSS A LINE EXTENDING NORMAL TO THE ROADWAY FROM THE FRONT CORNER OF THE PROPERTY, EXCEPT THAT JOINT-USE DRIVEWAYS MAY BE PERMITTED IN SPECIAL INSTANCES WHERE WRITTEN APPROVAL OF BOTH PROPERTY OWNERS IS FILED WITH THE CITY.
5. NO PORTION OF ANY DRIVEWAY CURB OPENING SHALL BE ALLOWED TO ENCROACH IN A CURB RETURN RADIUS.



REVISION	DESIGN	DRAWN	DATE
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REV. 1	AC/JF	J.F./G.M.	05/29/15

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 R.C.E. 70281 05.29.15  
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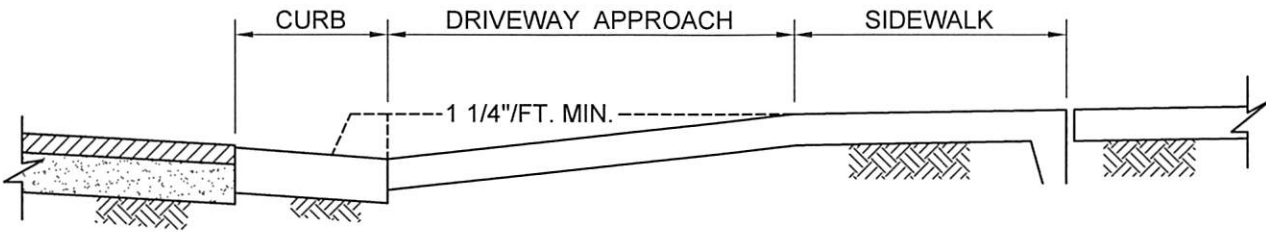
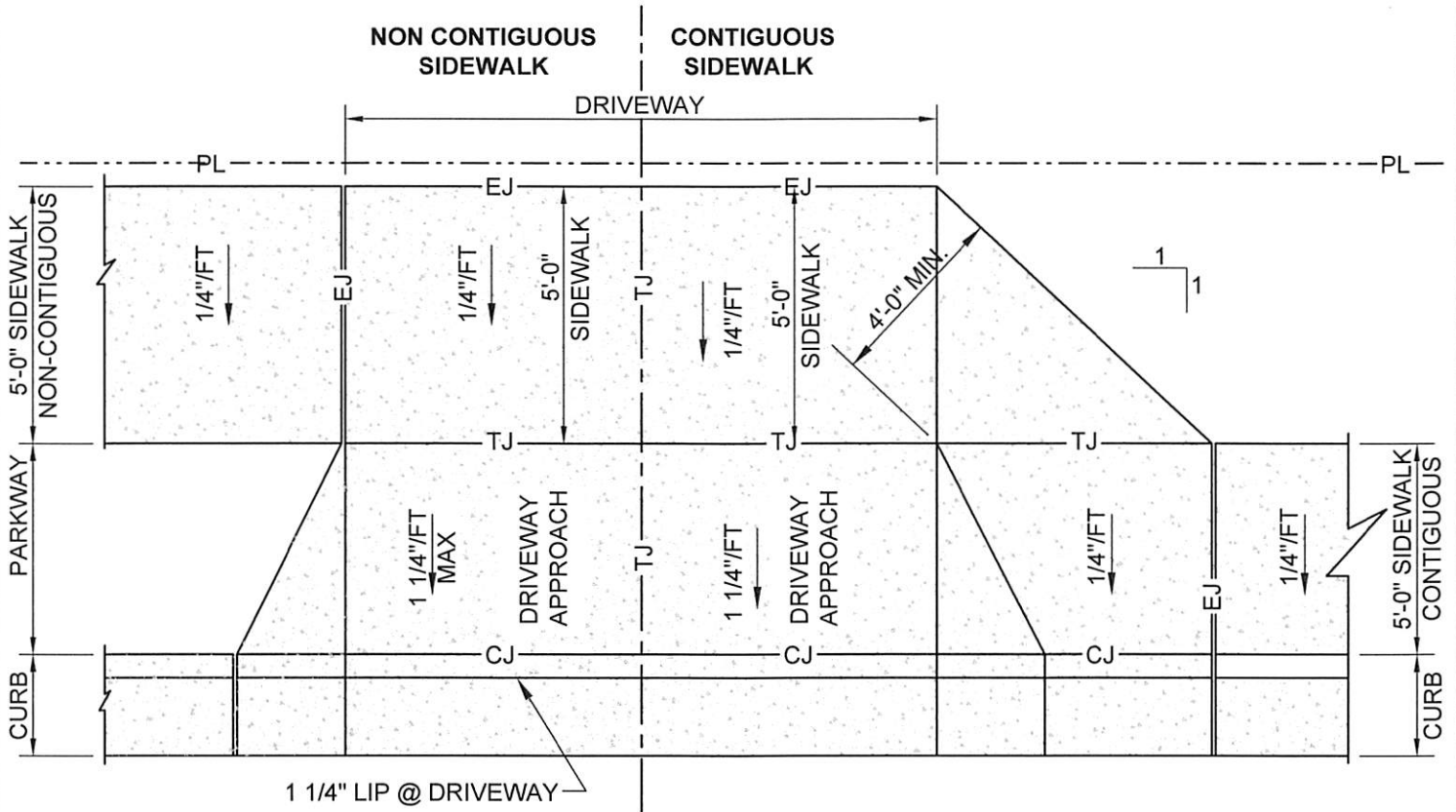
**CITY OF EL CENTRO**  
 PUBLIC WORKS DEPARTMENT

**DRIVEWAY LOCATION  
 AND WIDTH REQUIREMENTS**

DWG NO. **EC-260**

SCALE: N.T.S.

EJ: EXPANSION JOINT  
 CJ: CONSTRUCTION JOINT  
 TL: TOOLED JOINT  
 PL: PROPERTY LINE



REVISION	DESIGN	DRAWN	DATE
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REV. 1	AC/JF	J.F./G.M.	05/29/15

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ABRAHAM CAMPOS, P.E.  
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 R.C.E. 70281 05.29.15

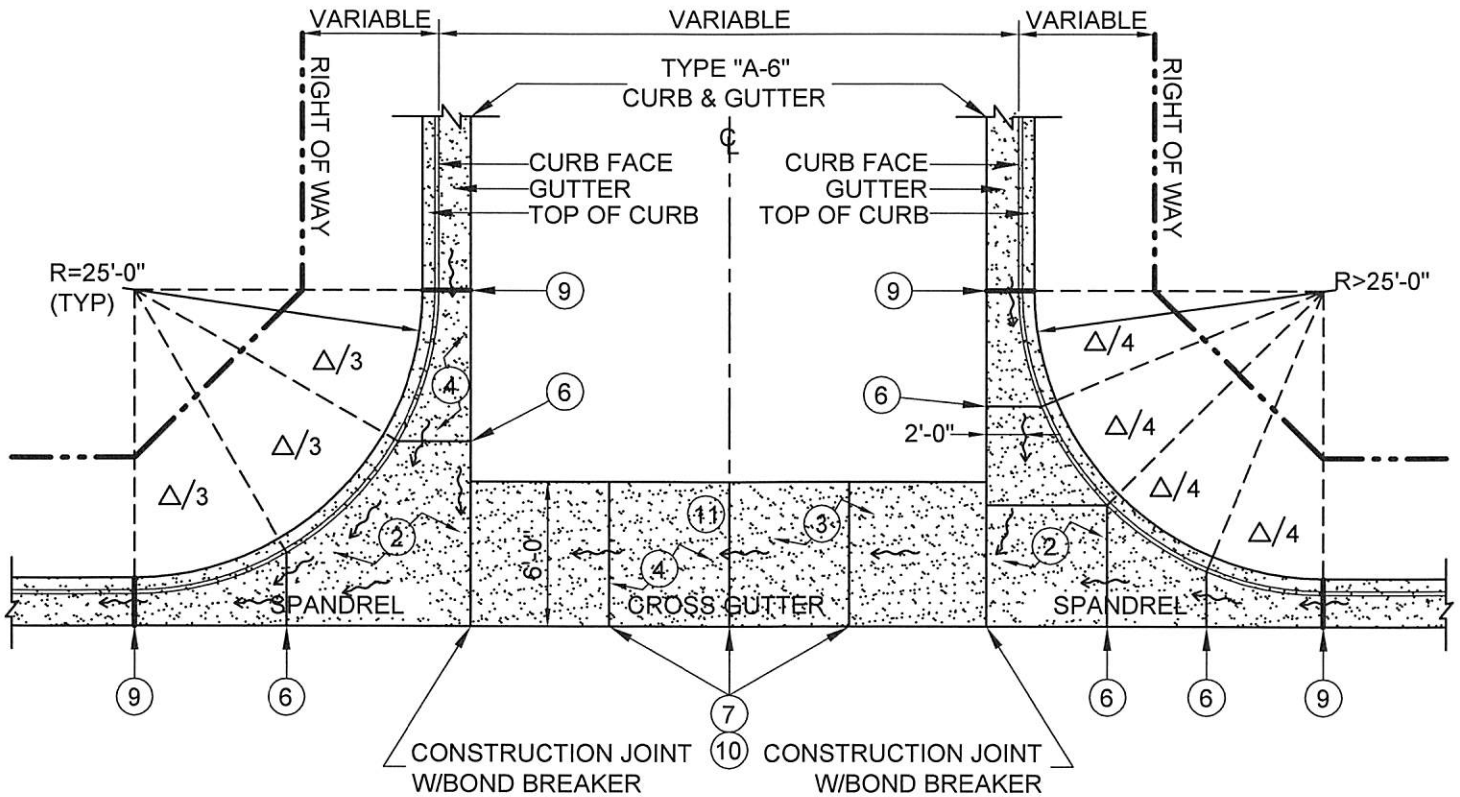
TERRY L. HAGEN, P.E.  
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**CITY OF EL CENTRO**  
 PUBLIC WORKS DEPARTMENT

**ACCESS AROUND  
 DRIVEWAY APPROACHES**

DWG NO. **EC-262**

SCALE: N.T.S.



- ① CROSS GUTTER FOR USE WITH TYPE A-6 CURB.
- ② APRON THICKNESS TO BE 8" MINIMUM.
- ③ CROSS GUTTER THICKNESS TO BE 8" MINIMUM.
- ④ USE 4000 PSI CONCRETE, TYPICAL.
- ⑤ PLACE MIN. 6" BASE UNDER ENTIRE SPANDREL AND CROSS GUTTER AREA COMPACTED TO 95% OF MAX. DRY DENSITY PER ASTM 1557.
- ⑥ WEAKENED PLANE JOINTS TO BE CONSTRUCTED AT 1/3 POINTS ON 25' RADIUS CURB RETURNS, & AT 1/4 POINTS AT CURB RETURNS WITH LARGER RADIUS.
- ⑦ CONSTRUCT WEAKENED PLANE JOINT(S) PER CURB & GUTTER JOINT STANDARD AT MIDPOINT OF CROSS GUTTERS LESS THAN 40' LONG, OR AT 1/3 POINTS OF CROSS GUTTERS OF 40' OR LONGER.
- ⑨ CONSTRUCT EXPANSION JOINT PER CURB AND GUTTER JOINT STANDARD.
- ⑩ CONSTRUCT WEAKENED PLANE JOINT PER CURB AND GUTTER JOINT STANDARD.
- ⑪ CONSTRUCT CROSS GUTTER PER TYPICAL SECTION EC-273.
- ⑫ WHEN ABUTTING SOIL HAS A HIGH SULFATE CONTENT, SPECIAL CONSIDERATIONS MAY BE REQUIRED.

NOTE:  
THIS DETAIL IS TO BE USED  
ONLY WITH THE CITY'S ENGINEER APPROVAL.



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SENIOR ENGINEER  
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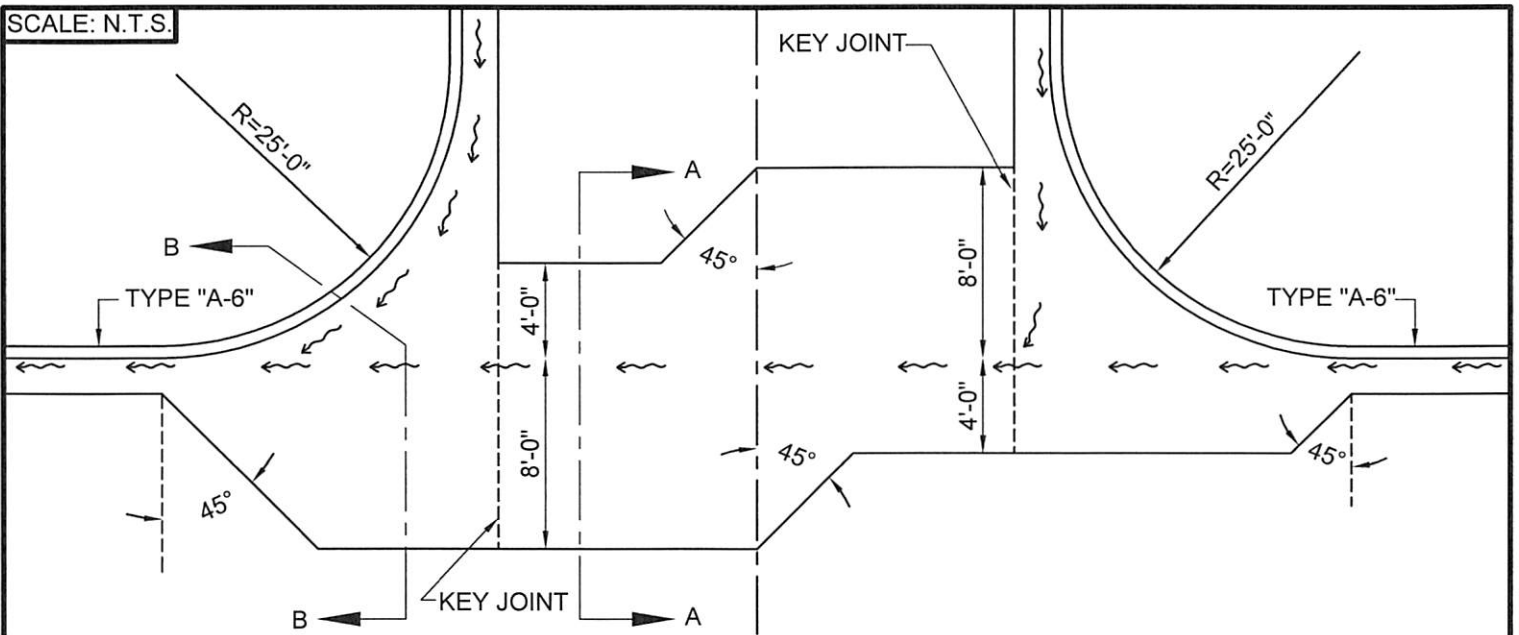
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PUBLIC WORKS DEPARTMENT

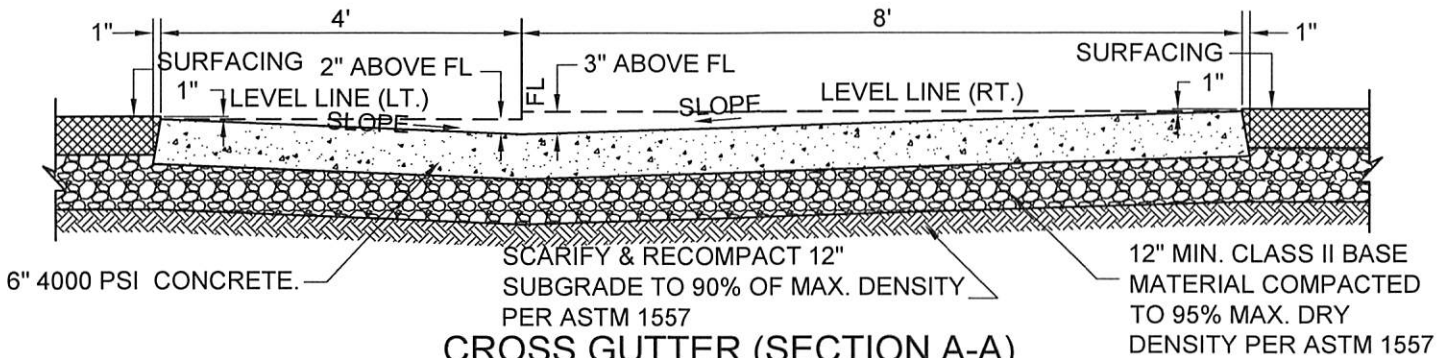
**CROSS GUTTER**  
LAYOUT

DWG NO. **EC-270**

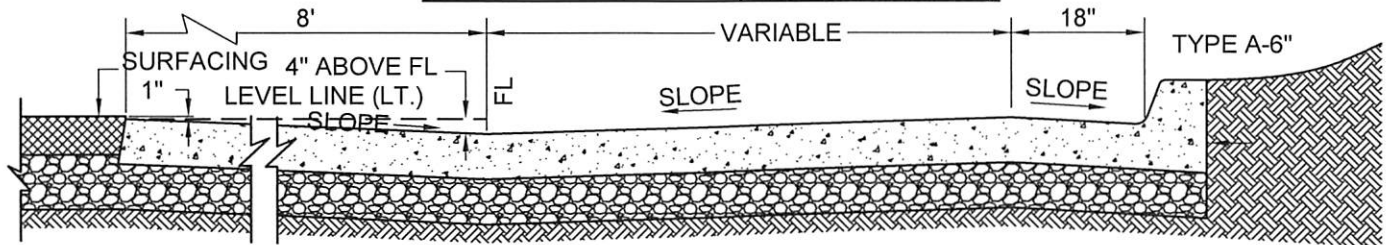
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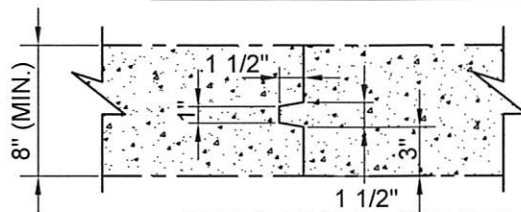
**PLAN VIEW**



**CROSS GUTTER (SECTION A-A)**



**SPANDREL (SECTION B-B)**



**KEY JOINT (SECTION)**

NOTE:

1. THIS CROSS GUTTER STANDARD TO BE CONSTRUCTED IN AREAS WHERE STREET GUTTERS HAVE CONSTANT OR FREQUENT FLOWS FROM LANDSCAPED PARKWAYS AND MEDIANS, GOLF COURSE, AND AGRICULTURAL RUNOFF IN AREAS WHEN GRADIENT IS LESS THAN 0.8%.



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PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

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SENIOR ENGINEER  
R.C.E. 70281 05.29.15  
DATE

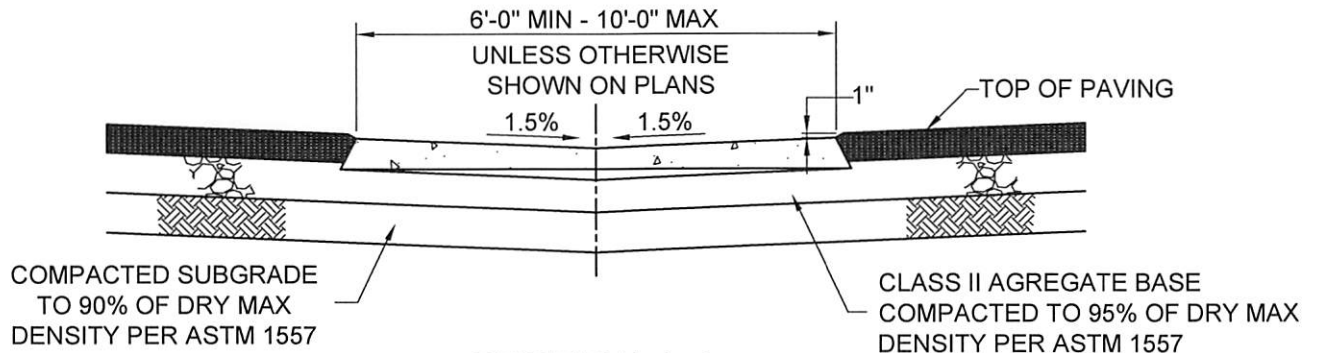
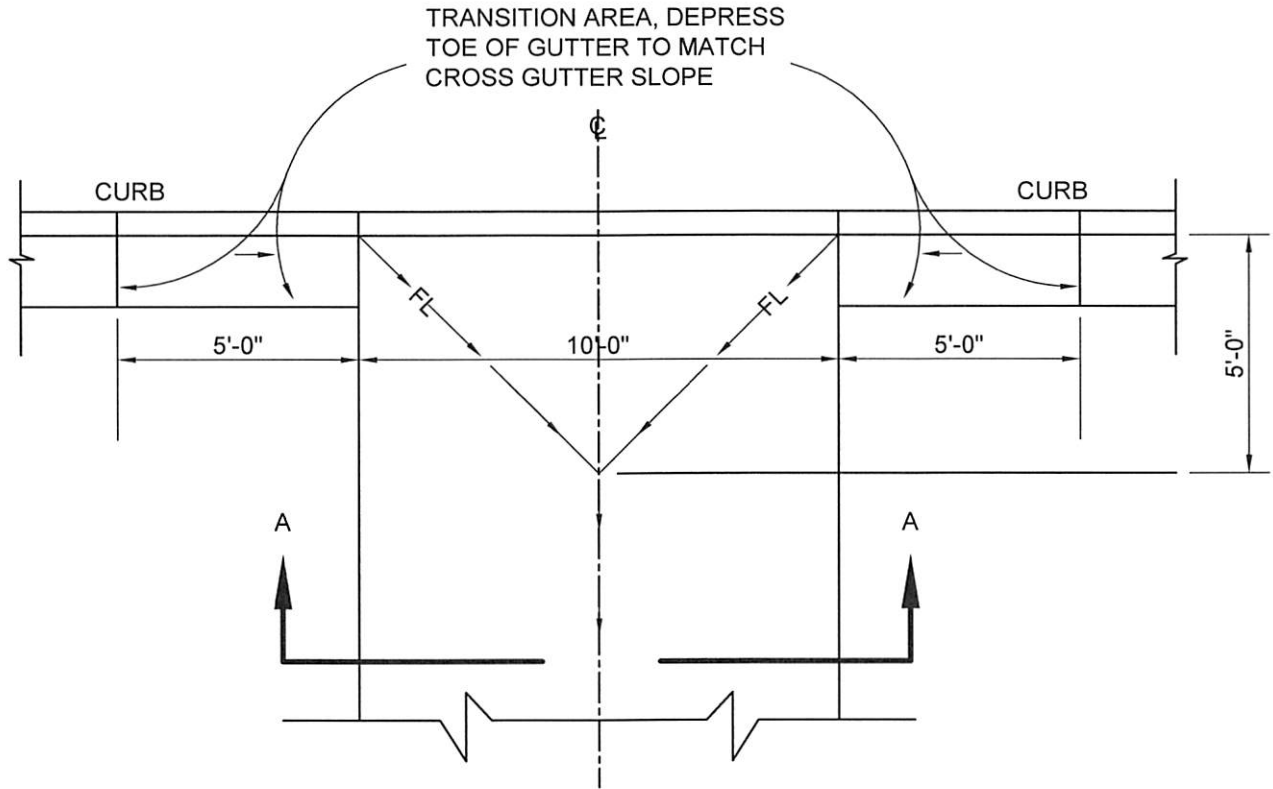
TERRY L. HAGEN, P.E.  
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R.C.E. 24740 05.29.15  
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**CITY OF EL CENTRO**  
PUBLIC WORKS DEPARTMENT

**CROSS GUTTER**  
WITH SPLASH AREA

DWG NO. **EC-271**

SCALE: N.T.S.



**SECTION A-A**

(PER CROSS GUTTER TYPICAL SECTION EC-273)

NOTES:

1. CROSS GUTTER TO BE CONSTRUCTED WHERE THE DRAINAGE IS CARRIED ACROSS STREET AND ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
2. MINIMUM ALLOWABLE CROSS SLOPE IS 1.5%.
3. CONCRETE SHALL BE 4000 PSI MIN.
4. CURB WITHIN CROSS GUTTER AREA TO BE POURED MONOLITHIC WITH CROSS GUTTER.
5. MINIMUM SLOPE OF FLOW LINE IS 0.5%.

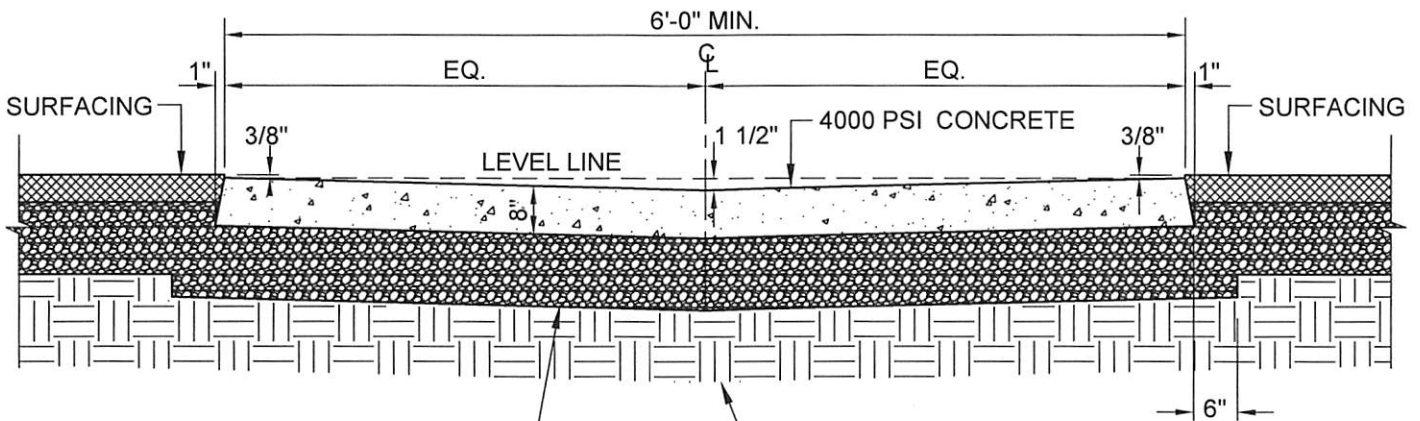


REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

APPROVED BY THE CITY OF EL CENTRO PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION		
	R.C.E. 70281	05.29.15
ABRAHAM CAMPOS, P.E. SENIOR ENGINEER		DATE
	R.C.E. 24740	05.29.15
TERRY L. HAGEN, P.E. DIRECTOR OF PUBLIC WORKS		DATE

<b>CITY OF EL CENTRO</b> PUBLIC WORKS DEPARTMENT	
<b>CROSS GUTTER MID-BLOCK</b>	
DWG NO.	<b>EC-272</b>

SCALE: N.T.S.



12" MIN. CLASS II AGGREGATE BASE  
COMPACTED TO 95% OF DRY MAX  
DENSITY PER ASTM 1557.

12" MIN. SUBGRADE SCARIFIED AND COMPACTED  
TO 90% MAX DRY DENSITY PER ASTM 1557



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**CITY OF EL CENTRO**  
PUBLIC WORKS DEPARTMENT

**CROSS GUTTER**  
(TYPICAL SECTION)

DWG NO.    **EC-273**