

HARDSCAPE

<u>NUMBER</u>	<u>TITLE</u>	<u>NUMBER</u>	<u>TITLE</u>
H-01.0	GENERAL CONCRETE - NOTES	H-05.0	CROSS GUTTER
H-02.0	STANDARD & FAUX SANDSTONE CURB AND GUTTER	H-06.0	SIDEWALK - TYPE & SECTIONS
H-02.1	NON-STANDARD CURB AND GUTTER	H-07.0	ACCESS RAMP NOTES
H-02.2	SANDSTONE CURB AND CONCRETE GUTTER	H-07.1	ACCESS RAMP - DUAL DIRECTIONAL DETAILS
H-02.3	STEEL CURB	H-07.2	ACCESS RAMP - ONE-WAY DIRECTIONAL DETAILS
H-03.0	RESIDENTIAL DRIVEWAY	H-07.3	ACCESS RAMP - DIAGONAL RAMP DETAILS
H-03.1	COMMERCIAL DRIVEWAY	H-07.4	ACCESS RAMP - BLENDED TRANSITION DETAILS
H-04.0	ALLEY ENTRANCE	H-08.0	CONCRETE BUS POCKET
		H-08.1	CONCRETE BUS POCKET - REVERSE TAPER



HARDSCAPE TABLE OF CONTENTS

REV. DATE: 09/19 | DETAIL: H-00.0

APPROVED:

09/23/19 *Bill*
CITY ENGINEER

William J. Bill
PUBLIC WORKS DIRECTOR

GENERAL CONCRETE NOTES:

1. Improvements constructed under this Standard shall conform to applicable provisions of the Standard Specifications for Public Works Construction (latest edition of Green Book).
2. Concrete shall be minimum of 520-C-2500 or greater where specified, per Standard Specifications for Public Works Construction (Greenbook).
3. Concrete shall have a light broom finish, except as noted. Broom direction shall be perpendicular to path of travel. All exposed edges shall be tool finished with a $\frac{1}{2}$ inch radius.
4. Compact native soil 8 inches deep to 90% relative compaction. Under all concrete improvements except sidewalk, place crushed aggregate base 6 inches compacted to 95% relative compaction before placing concrete. Under sidewalk, place minimum of 4" crushed aggregate base compacted to 95% relative compaction. At City Engineer or designee's discretion, 2" of sand may be allowed under sidewalk in place of crushed aggregate base. Crushed miscellaneous base may be substituted for crushed aggregate base at City Engineer or designee's discretion.
5. Clear drying fugitive dye curing compound shall be applied to all exposed concrete surfaces immediately after finishing.
6. Calcium chloride shall not be added to concrete unless approved by the City Engineer or designee.
7. Sawcut and remove a 24" minimum width or more of existing asphalt concrete pavement adjacent to all new concrete as directed by the City Engineer or designee. After constructing new concrete, replace pavement with asphalt concrete and aggregate base to match existing, but not less than 3 inch asphalt concrete over 8 inch aggregate base. Where concrete section exists, replace to match existing, overlaid with 2 inch minimum asphalt concrete. Tack coat all vertical surfaces with SS-1h emulsion where asphalt is to be placed.
8. All concrete shall be placed within forms except where it is poured directly against existing sawcut concrete.
9. Survey monuments within the limits of work shall be referenced, tied out, and have a corner record filed prior to construction by a licensed land surveyor. Monuments lost or disturbed shall be replaced and have a corner record filed by a licensed land surveyor or civil engineer in accordance with the State of California Professional Land Surveyors' Act, Section 8771.
10. Asphalt concrete shall be laid in courses not exceeding 4 inches in thickness. Asphalt concrete shall be Class C2 Grade PG 64-10 for finish courses, Class D1 Grade PG 64-10 for leveling courses, and Class B Grade PG 64-10 for base courses.
11. State Street brick paver sidewalks from Cabrillo Blvd. to Victoria Street shall be a Pacific Clay Bear Path Red Flashed paver. Contact the City Engineer or designee for details.



GENERAL CONCRETE NOTES

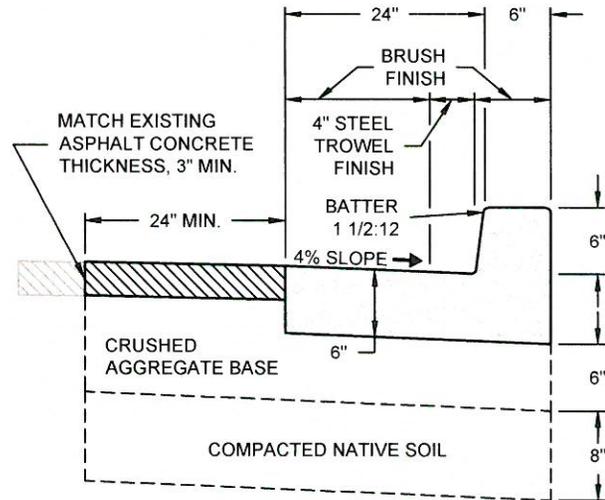
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APPROVED:

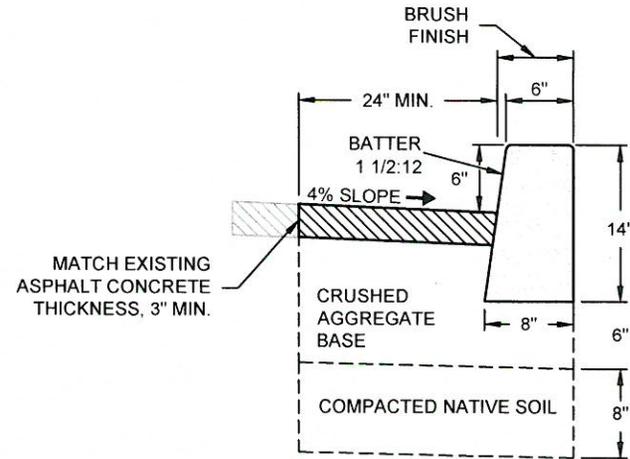
07/23/19
CITY ENGINEER

PUBLIC WORKS DIRECTOR

CURB WITH 24 INCH GUTTER



CURB ONLY



STANDARD NOTES:

1. All curbs and gutters shall be placed monolithically.
2. Premolded 0.25 inch thick expansion joints shall be placed at the ends of curb returns. Provide 1.5 inch deep contraction joints in all curb and gutter at approximately 10 foot intervals to match score marks in existing sidewalk.
3. The top edge of curb, the gutter flow line and the gutter edge shall have 0.5 inch radius, unless otherwise noted.
4. Minimum 6 inch crushed aggregate base under curb and gutter to 95% relative compaction.
5. Compact native soil to a depth of 8 inches beneath aggregate base below curb and gutter, to 90% relative compaction.
6. Standard curb and gutter shall be used for all new construction unless other types are approved by the City Engineer.
7. Cuts in existing curbs and gutters shall be made at right angles to the face of curb.
8. Where existing curb height varies, match existing or adjacent curb for short reaches.
9. Extruded or slip-formed curb and gutter is not permitted.
10. Where a curb comes to an end, taper the curb down to the gutter at a 1:1 slope.

FAUX SANDSTONE CONCRETE CURB & GUTTER

NOTES:

1. Mix sifted yellow sand into concrete for faux sandstone curb and gutter as needed to match existing sandstone or faux sandstone curbs.
2. Use textured matte finish to achieve faux sandstone finished look on top of curb and curb face portion only. Gutter shall be broom finished with the exception of a 4" steel trowel finish along the gutter flow line.
3. Geometry shall match that of the Standard curb and gutter.



CURB AND GUTTER STANDARD & FAUX SANDSTONE

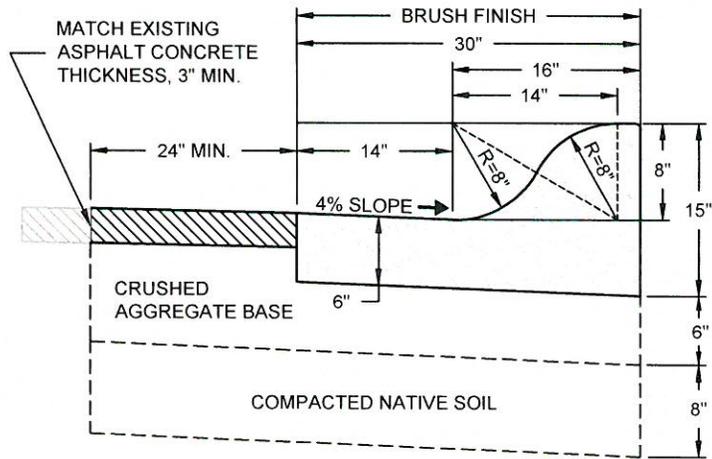
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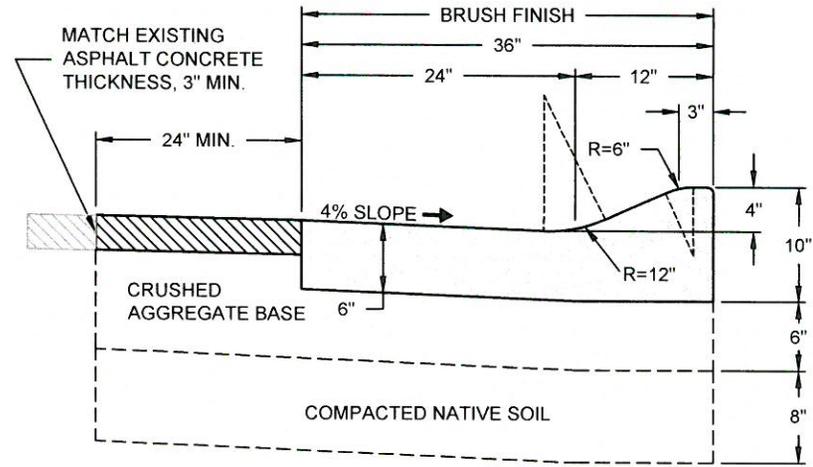
09/23/19
B. J. J.
CITY ENGINEER

J. J. J.
PUBLIC WORKS DIRECTOR

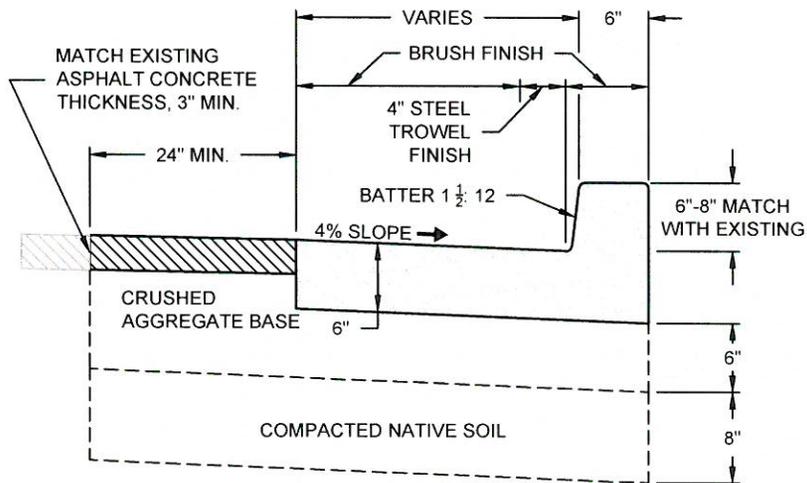
30" ROLLED CURB AND GUTTER



36" ROLLED CURB AND GUTTER



CURB WITH VARIABLE GUTTER



NOTES:

1. Non-Standard curb and gutter should only be used to replace existing non-standard curb and gutter in-kind.
2. For standard curb and gutter notes, see Standard Detail H-02.0.



CURB AND GUTTER NON-STANDARD

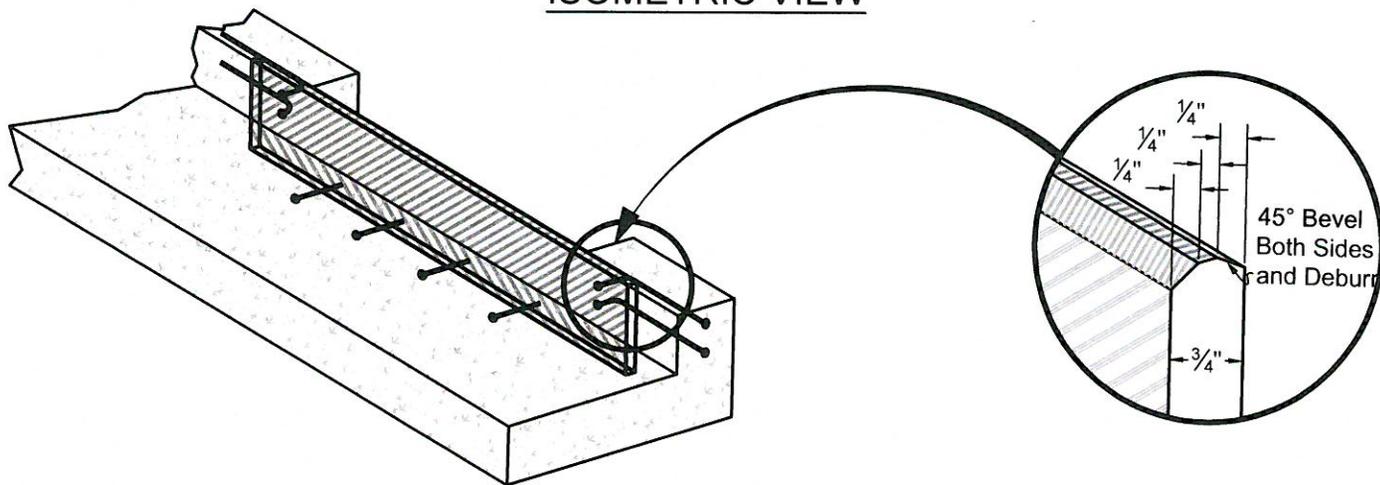
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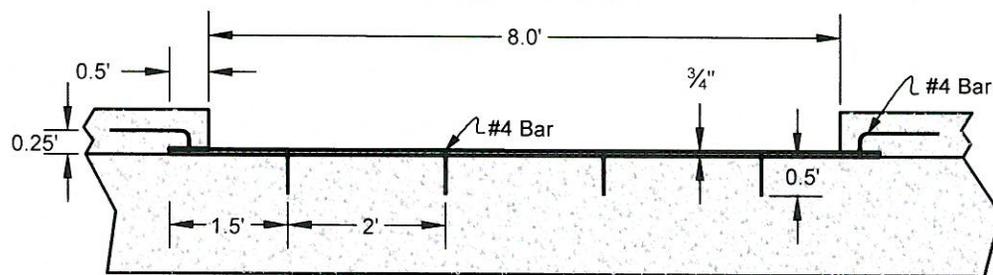
Bin Pan
CITY ENGINEER

Bin Pan
PUBLIC WORKS DIRECTOR

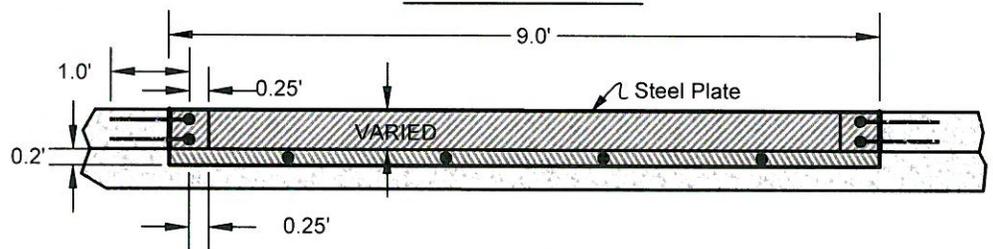
ISOMETRIC VIEW



TOP VIEW



FRONT VIEW



NOTES:

1. Use 9'L x 3/4" thick varied width steel plate. Bevel edge as directed and weld #4 bars to plate using a full penetration weld. Galvanize after fabrication per Greenbook Standard Specifications.
2. Mount plate flush with top of curb and curb face.
3. Steel plate width shall be sufficient to extend 0.2' minimum below the flowline.
4. There shall be a minimum of 1.5" concrete cover over all rebar.
5. Match existing curb face and gutter.

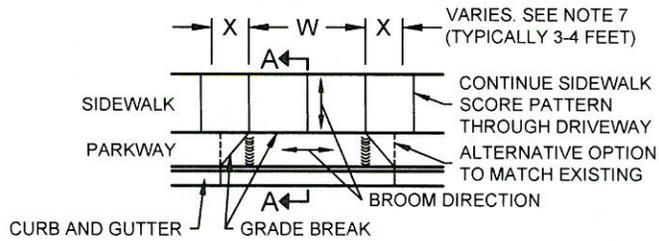


STEEL CURB

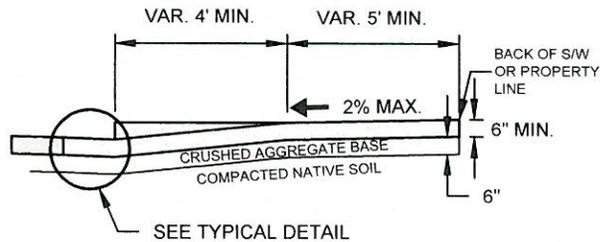
REV. DATE: 09/19 DETAIL: H-02.3

APPROVED:
Bill
 CITY ENGINEER
Rebecca J. Bil
 PUBLIC WORKS DIRECTOR

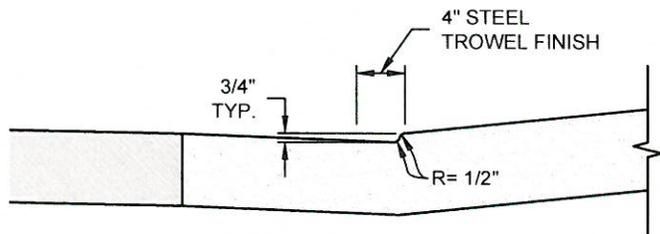
PLAN VIEW



SECTION A-A



TYPICAL DETAIL



NOTES:

1. This driveway is to be used in residential areas, when plans showing such use are approved by the City Engineer, or designee, and for replacement of driveway only.
2. Driveway width (W) shall be 10 feet minimum and 16 feet maximum. Any driveway or combination of driveways which exceed the maximum width must be approved by the City Engineer, or designee.
3. Where multifamily driveway width exceeds 12 feet, provide a 1.5 inch deep contraction joint in center.
4. The driveway slab shall be 6 inches thick. The sidewalk within the driveway width shall be 6 inches thick (see note 5 for exceptions).
5. Driveway with 8 inch slab thickness shall be used when serving three or more residences, or when plans showing such use are approved by the City Engineer or designee.
6. Gutter width shall match adjacent gutter.
7. Flare width (X) shall be 1 foot for each 2 inches of curb height.
8. Where existing gutter has been overlaid, and a new driveway is being installed, the new gutter shall be installed to match existing gutter. Asphalt concrete shall be placed over the new gutter to the grade of the existing pavement.
9. Driveway approach consists of gutter, ramp, flares, and sidewalk portions, placed monolithically.
10. See detail H-06.1 for sidewalk.
11. Where existing gutter exceed 3 feet, and concrete is in good condition, an 18" cut into existing gutter may be made if approved by City inspector.
12. Provide a minimum 5' wide sidewalk across driveway, or as approved by City Engineer, at 2% slope.



RESIDENTIAL DRIVEWAY

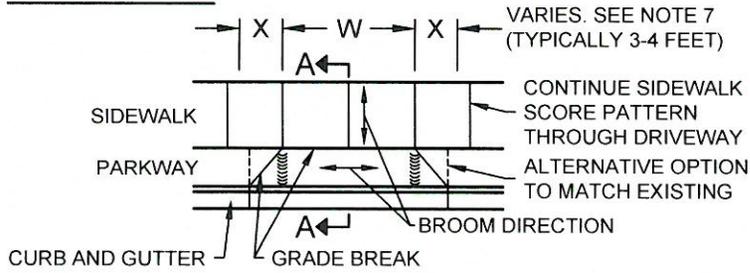
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APPROVED:

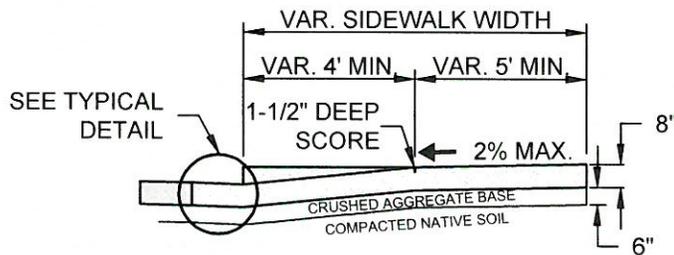
09/23/19 *Bill*
CITY ENGINEER

Robert J. Bill
PUBLIC WORKS DIRECTOR

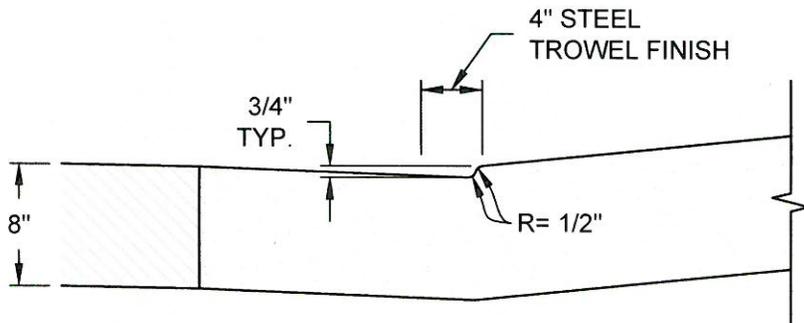
PLAN VIEW



SECTION A-A



TYPICAL DETAIL



NOTES:

1. Driveway width (W) shall be 12 feet minimum and 30 feet maximum.
2. Driveway shall be 8 inches thick. Slab within sidewalk area shall be 8 inches and placed monolithically with driveway.
3. Where driveway width exceeds 16 feet, provide a 2 inch deep contraction joint in center.
4. Gutter width shall match adjacent gutter.
5. Flare width (X) shall be 1 foot for every 2 inches of curb height.
6. Where existing gutter has been overlaid, the new driveway gutter shall be installed to match the existing gutter, and asphalt placed over new gutter to grade of existing pavement.
7. Driveway flares, slabs, sidewalks, and gutters shall be placed monolithically.
8. Provide minimum 5 feet of sidewalk width across driveway, at 2% slope, or as approved by City Engineer or designee.
9. Use 560-C-3250 for all commercial driveways.
10. Driveway should generally rise to sidewalk level as opposed to depressing sidewalk to driveway level.
11. See Detail H-06.1 for sidewalk.
12. Where existing gutter exceeds 3 feet, and concrete is in good condition, an 18" cut into existing gutter may be made if approved by City Inspector.



COMMERCIAL DRIVEWAY

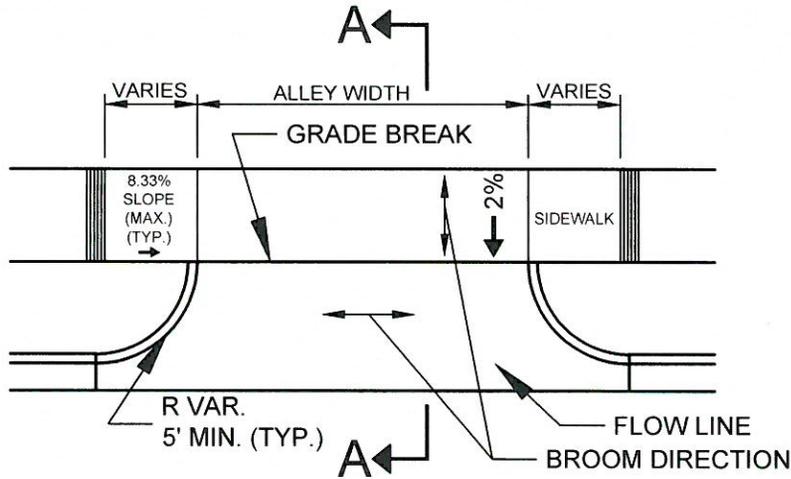
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APPROVED:

09/23/19 *Bin De*
CITY ENGINEER

Heber Bjl
PUBLIC WORKS DIRECTOR

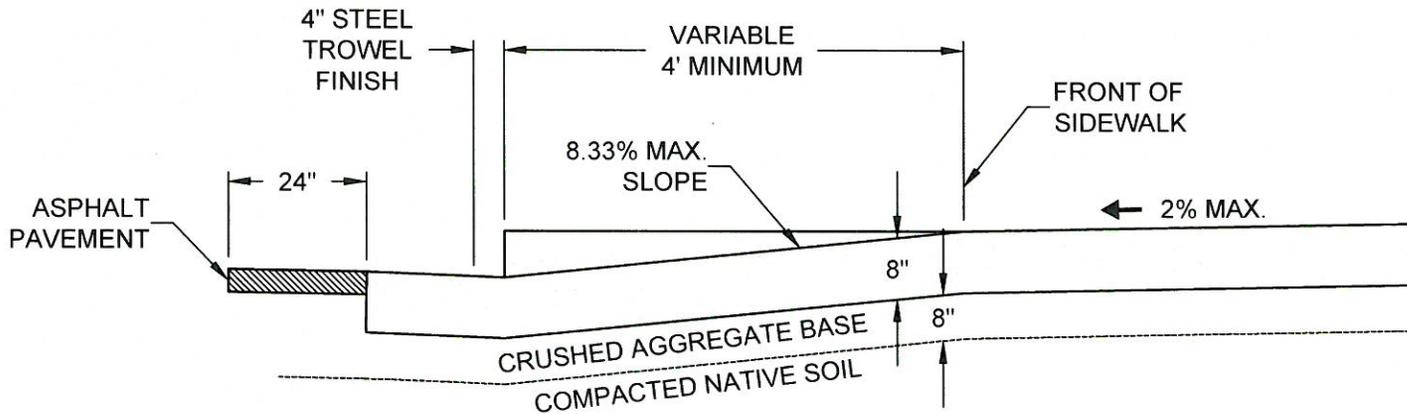
PLAN VIEW



NOTES:

1. Concrete slab shall be in line with the back of sidewalk and shall conform to alley V-section.
2. Curb returns, slab, sidewalk, and gutters shall be placed monolithically.
3. Slab, gutter, and curb returns shall be broom finished and flow lines shall be steel trowel finished.
4. Alley approach slope shall not exceed 8.33%. Depress sidewalk to meet maximum alley approach slope. Sidewalk depression shall not exceed 8.33% maximum slope.
5. Use 560-C-3250 concrete.
6. At discretion of City Engineer or designee, alleys may be reconstructed as Commercial Style Driveways, per Detail H-03.1. Generally the alley entrance is not appropriate for Commercial or Residential Driveways.

SECTION A-A

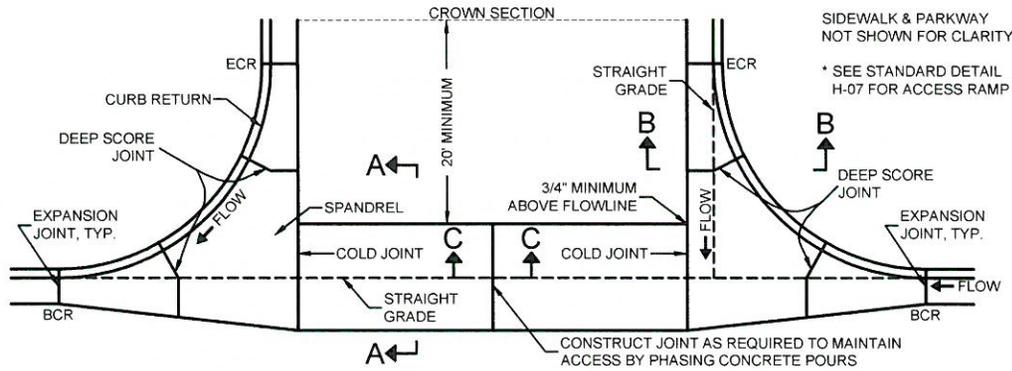


ALLEY ENTRANCE

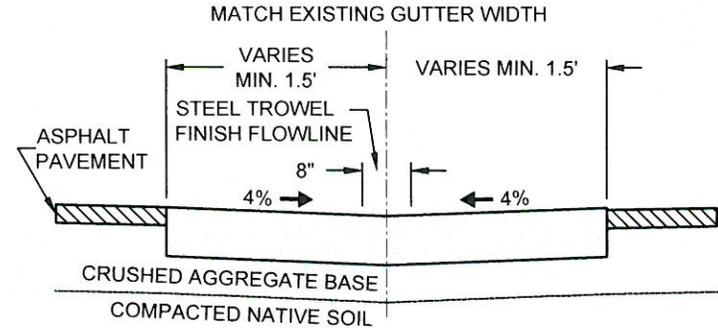
REV. DATE: 09/19 DETAIL: H-04.0

APPROVED:
[Signature]
 CITY ENGINEER
[Signature]
 PUBLIC WORKS DIRECTOR

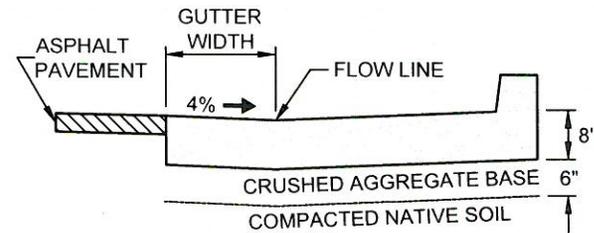
PLAN VIEW



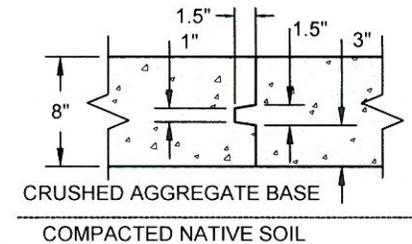
SECTION A-A



SECTION B-B



SECTION C-C



NOTES:

1. Curb return radius shall be as shown on the plans.
2. Gutter and spandrels shall be 8 inches thick.
3. Curb return and spandrel shall be placed monolithically.
4. Concrete shall be 560-C-3250
5. Finish shall be steel float, lightly broomed on gutter and spandrels, brush on curb returns and steel trowel at flow lines.
6. Asphalt concrete taper from crown section to cross gutter shall be a minimum of 20 feet.
7. Deep score joints shall be a minimum of 2 inches deep.

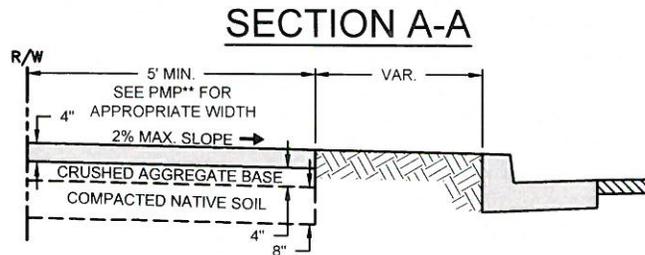
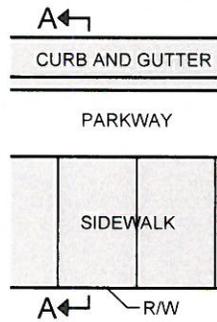


CROSS GUTTER

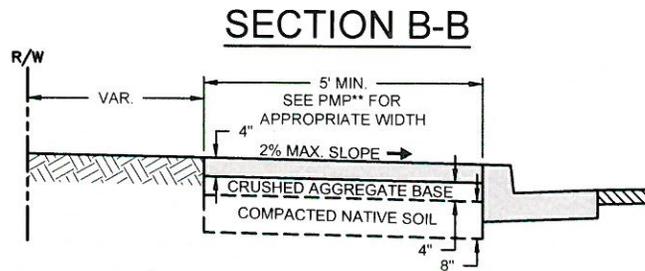
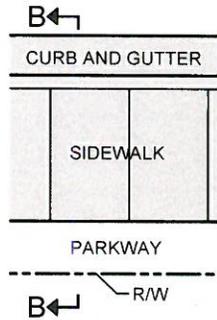
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APPROVED:
 09/22/19 *Bridget*
 CITY ENGINEER
Robert Bjel
 PUBLIC WORKS DIRECTOR

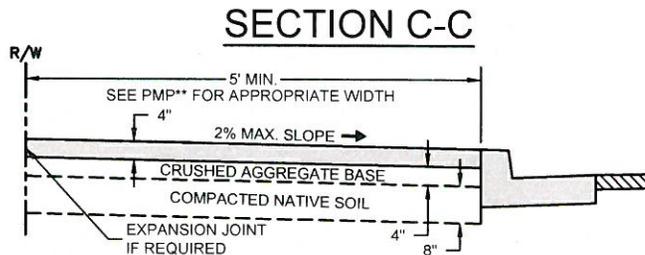
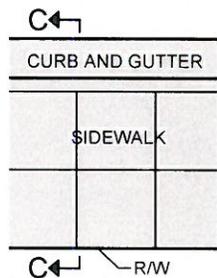
TYPE A - Residential Areas



TYPE B - Special Approval Required



TYPE C - Commercial Areas



NOTES:

1. Type "A" sidewalk shall be used in residential areas.
2. Type "B" sidewalk may be used during reconstruction as an alternate to Type "A" in residential areas, when approved by the City Engineer or designee.
3. Type "C" sidewalk shall be used in commercial areas.
4. Sidewalk width shall be as shown, unless otherwise specified on the plans
5. Provide 1.5 inch deep score joints @ 10 feet (30 feet if trees present), and 0.25 inch scoremarks at 5 foot spacing, and isolation joints at all adjacent structures, or match existing score pattern.
6. Exposed edges, joints and score marks shall be round-finish with an approved tool.
7. All survey monuments shall be identified, protected, and reset by a licensed land surveyor. (See General Note 9 on Standard Detail H-01.0).
8. Where necessary to replace existing sidewalk, cold joint shall be made at existing joint, or min. 1.5 inch sawcut at nearest score mark. Score pattern to match existing pattern unless directed by City Staff.
9. In special districts of the City, sidewalk shall match scoring and color of existing decorative sidewalk. (i.e., State Street, Carrillo Street, Chapala Street).
10. All utility boxes shall be placed at the back of curb.
11. Minimum of 4 feet clear space shall be provided around all tree wells, utility boxes/poles, benches, and other obstructions (5 feet preferred).

*R/W = Right of Way

**PMP = Pedestrian Master Plan, www.santabarbaraca.gov/pmp



SIDEWALK TYPE & SECTIONS

REV. DATE: 09/19 | DETAIL: H-06.0

APPROVED:

[Signature]
 CITY ENGINEER
[Signature]
 PUBLIC WORKS DIRECTOR

NOTES:

GENERAL

1. All access ramps shall be constructed in accordance with Title 24 of the Americans with Disabilities Act (ADA), the California Building Standards Code (CBC), and these Standard Details.
2. Ramp thickness shall be 4 inches in residential areas and 6 inches in commercial areas.
3. Transitions from ramps to sidewalks, gutters, or streets shall be flush and free of abrupt changes. Maximum slopes of adjoining gutters and road surface immediately adjacent to the curb ramp shall not exceed 1:20.
4. The minimum width of a diagonal curb ramp shall be 60 inches, exclusive of flared sides, unless approved by City Engineer, or designee. The minimum width of a directional curb ramp shall be 60 inches, exclusive of flared sides.
5. Thirty working days prior to commencing demolition activities the Contractor shall contact a licensed Land Surveyor to tie out any survey monuments and other recorded survey markers.
6. Existing survey monuments located adjacent to and outside of construction areas shall be adequately protected from any damage that may result from the Contractor's operations.
7. Existing street name stamps located in concrete to be demolished, or carefully removed, preserved, and relocated into the adjacent parkway area, as directed by City Engineer or designee.
8. Existing curb paint shall be repainted to existing condition on all new or retrofit curbs.
9. Use 560-C-3250 concrete for all access ramps.

RAMP STYLE

1. In general, dual directional or blended transition ramps are preferred. In higher volume areas or where physical constraints dictate, diagonal ramps may be used. Consult the City Engineer or designee for preferred ramp style.
2. When constructing one new ramp at an intersection, the selected ramp standard should be most compatible with existing ramps, or per City Engineer, or designee.

DETECTABLE WARNINGS

1. Dome height and size shall be minimum specified by the CBC, dome spacing shall be maximum specified by the CBC.
2. Detectable warning surfaces shall extend 36 inches minimum in the direction of travel and the full width of the curb ramp.
3. For new construction, detectable warnings shall be Tekway Dome-Tiles or an equivalent approved by the City Engineer.
4. For retrofit installations, detectable warnings shall be SafetyStepTD or an equivalent approved by the City Engineer.
5. Color shall be Federal Yellow per the current California Building Code.

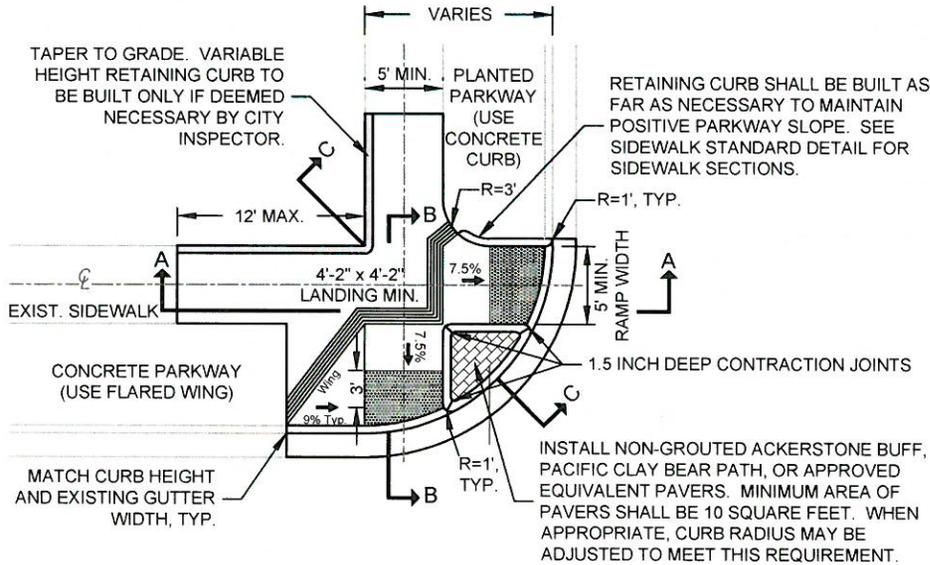


**ACCESS RAMP
NOTES**

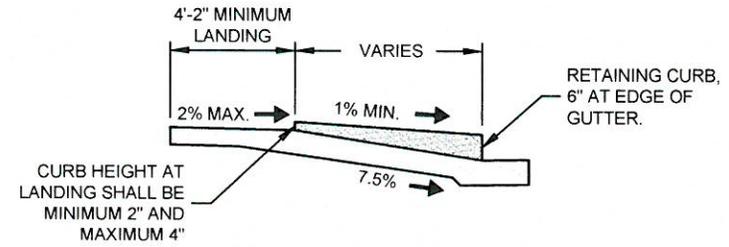
REV. DATE: 09/19 | DETAIL: H-07.0

APPROVED:
09/23/19 *Brian*
CITY ENGINEER
Shirley Bjell
PUBLIC WORKS DIRECTOR

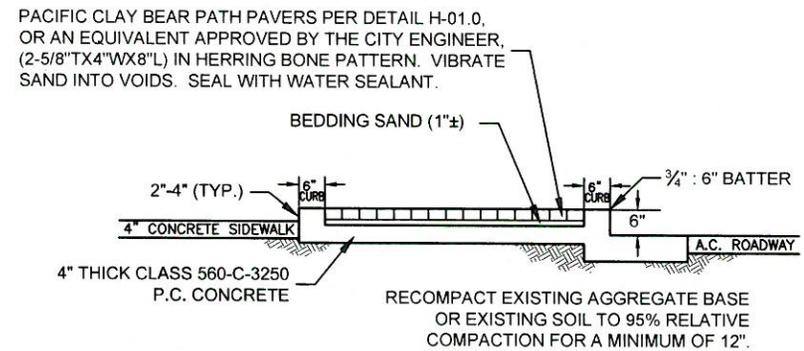
PLAN VIEW



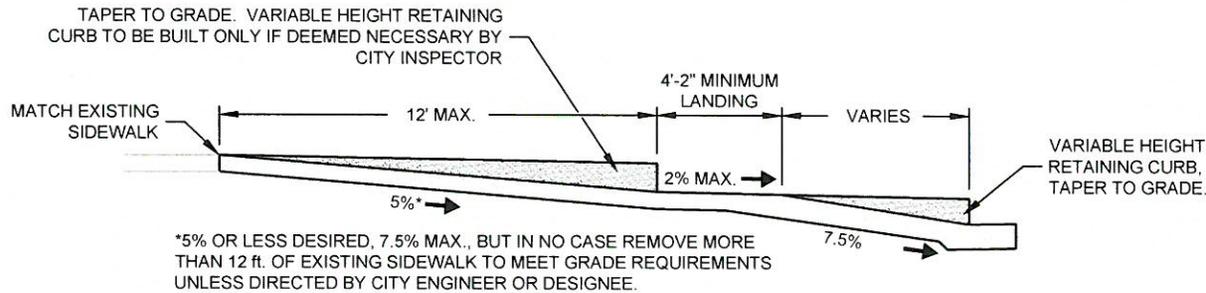
SECTION B-B



SECTION C-C



SECTION A-A



Directional curb ramps shall match the width and alignment of adjoining sidewalk.



ACCESS RAMP DETAILS DUAL DIRECTIONAL

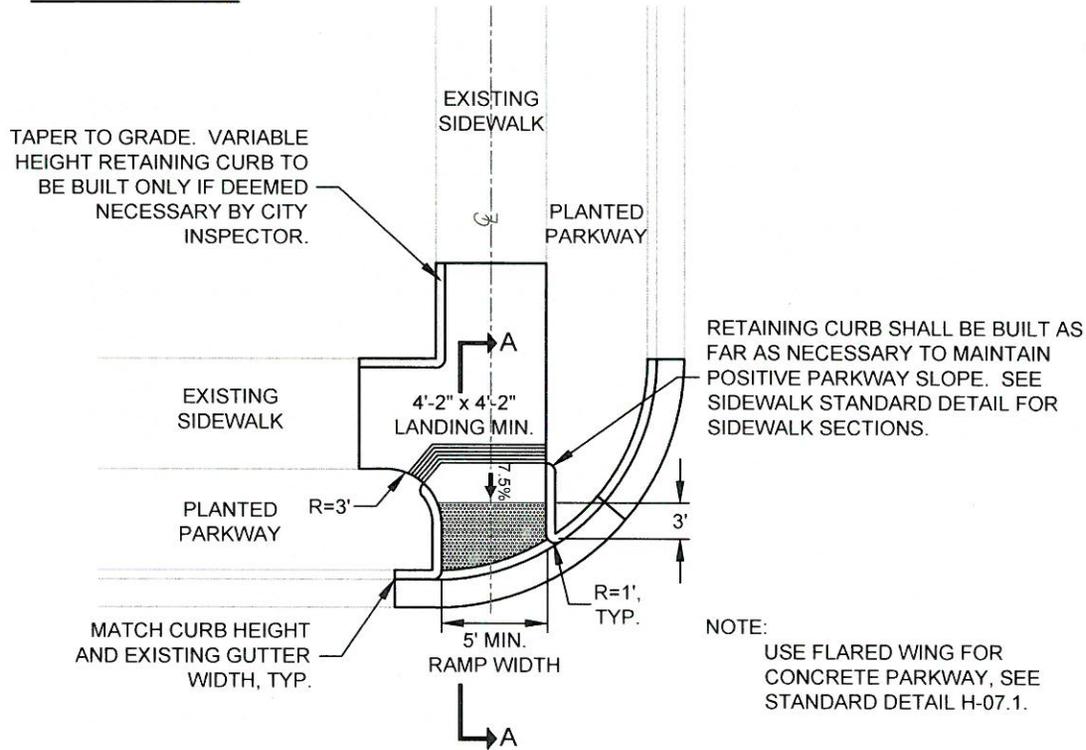
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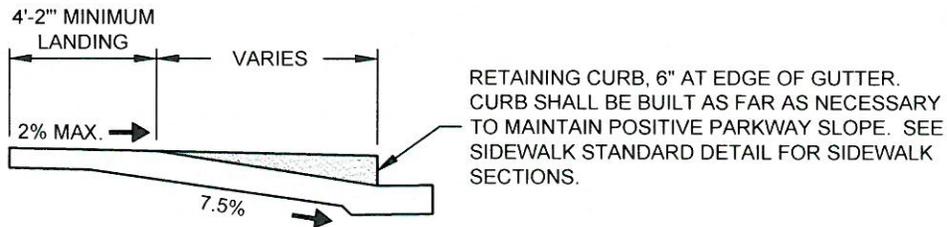
09/23/19 *Bill*
CITY ENGINEER

Robert F. B...
PUBLIC WORKS DIRECTOR

PLAN VIEW



SECTION A-A



Directional curb ramps shall match the width and alignment of adjoining sidewalk.



ACCESS RAMP DETAILS

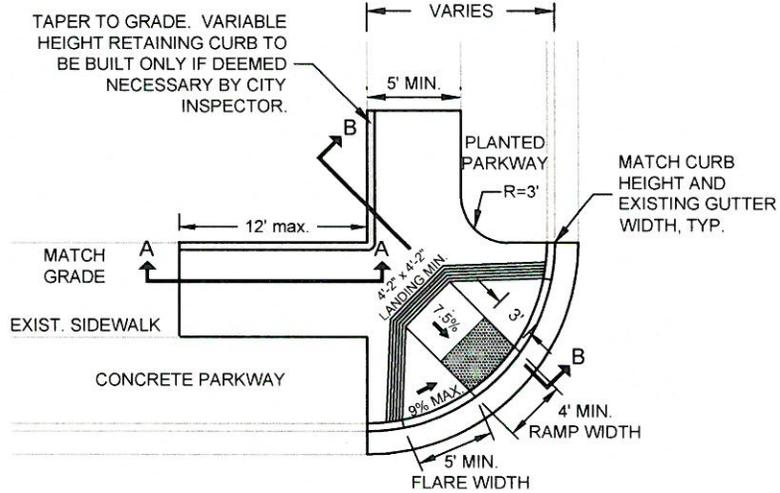
ONE-WAY DIRECTIONAL

REV. DATE: 09/19 | DETAIL: H-07.2

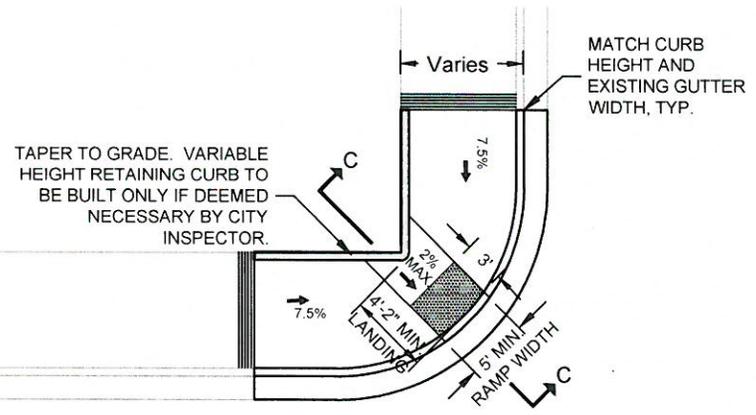
APPROVED: *Brandon*
 CITY ENGINEER
Rebecca J. Byrd
 PUBLIC WORKS DIRECTOR

PLAN VIEW - STANDARD DIAGONAL ACCESS RAMP*

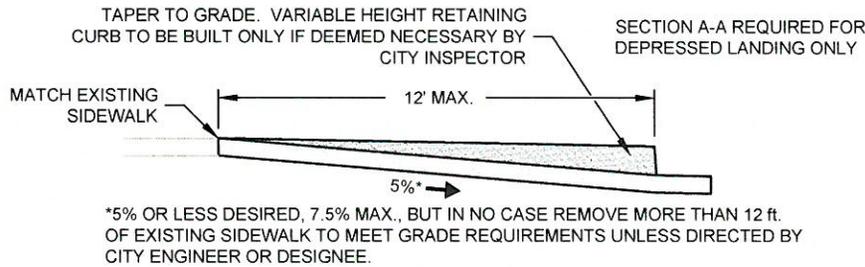
*ONLY TO BE USED WITH APPROVAL BY CITY ENGINEER OR DESIGNEE



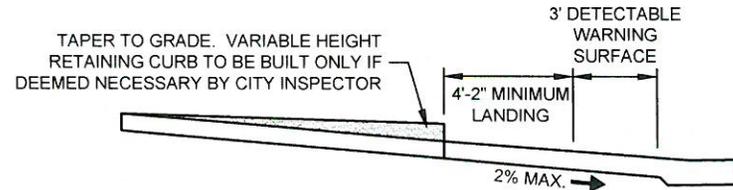
PLAN VIEW - MODIFIED DIAGONAL ACCESS RAMP FOR CURB FACE SIDEWALK



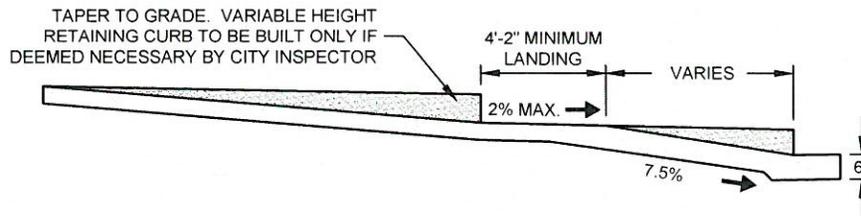
SECTION A-A



SECTION C-C



SECTION B-B



ACCESS RAMP DETAILS

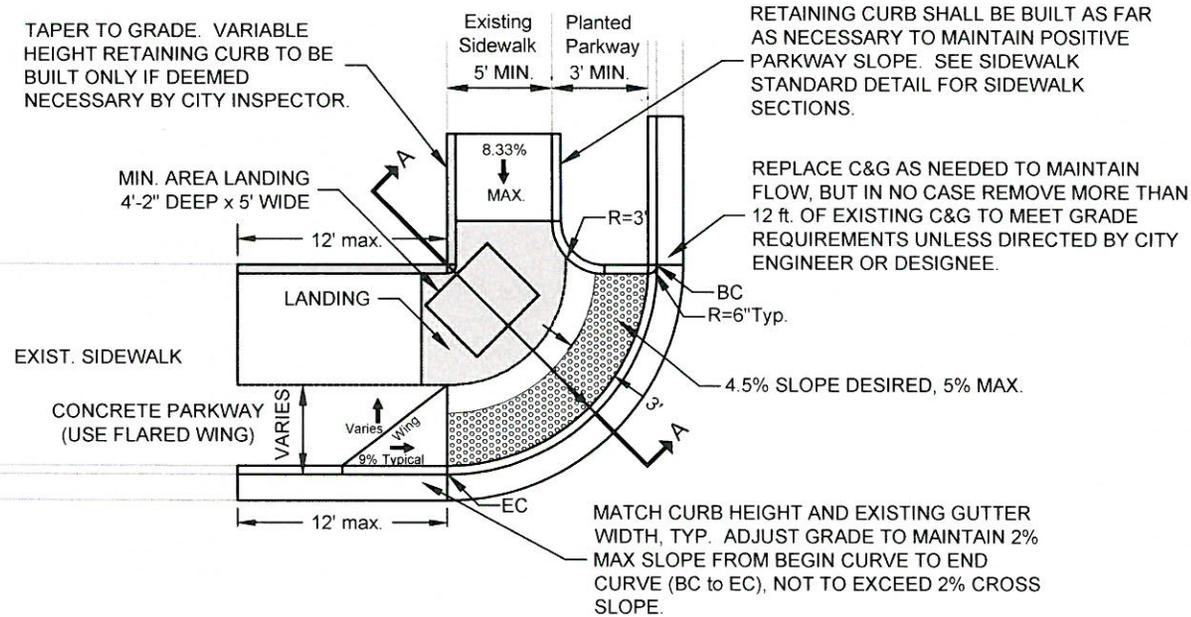
DIAGONAL

REV. DATE: 09/19 | DETAIL: H-07.3

APPROVED:

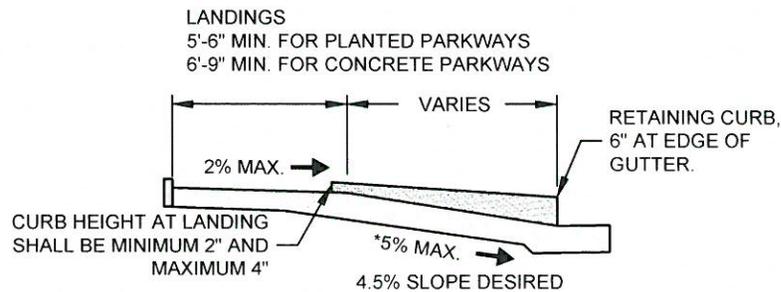
09/23/19 *Bill*
 CITY ENGINEER
Leberast Bjie
 PUBLIC WORKS DIRECTOR

PLAN



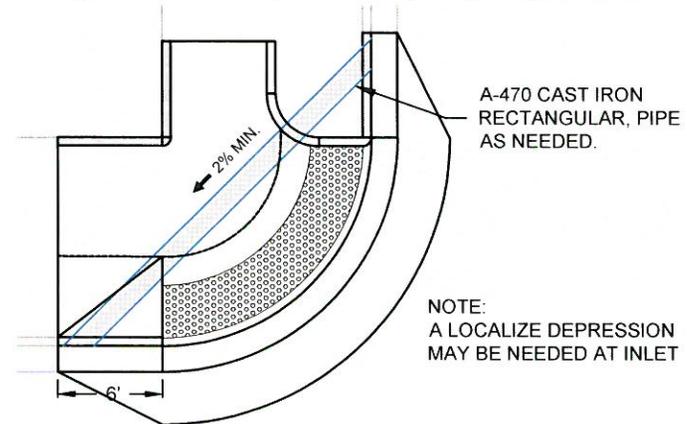
A Blended Transitional Ramp (BTR) must be approved by City Engineer or designee, and be accompanied with a full survey of the impacted area.

SECTION A-A



ALTERNATIVE DRAINAGE

Designs must be approved by City Engineer or designee



ACCESS RAMP DETAILS

BLENDED TRANSITION

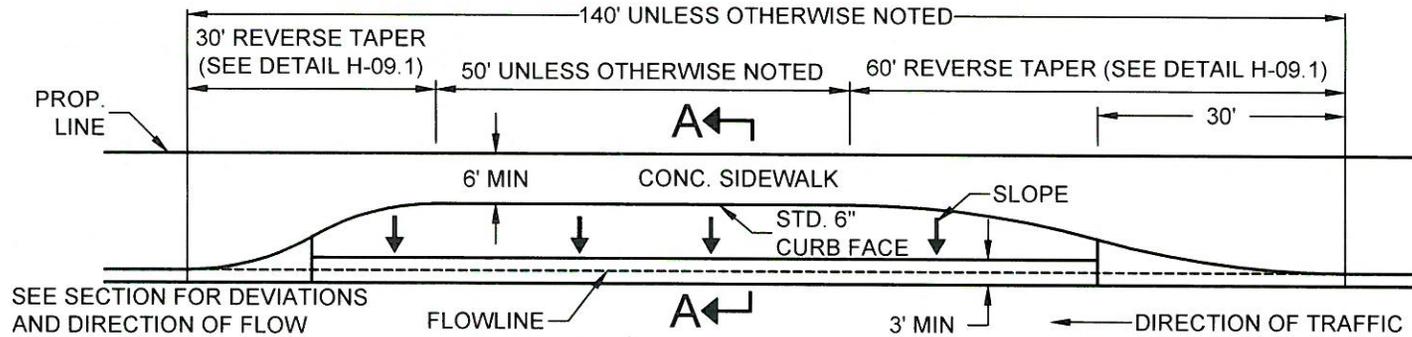
REV. DATE: 09/19 DETAIL: H-07.4

APPROVED:

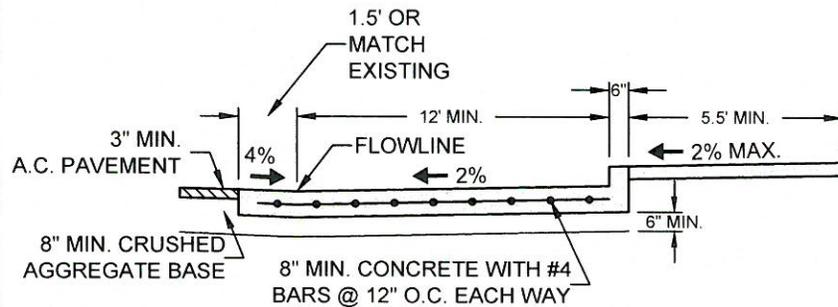
Billie
CITY ENGINEER

Robert J. Bjork
PUBLIC WORKS DIRECTOR

PLAN VIEW



SECTION A-A



NOTES:

1. Concrete shall be Class 560-C-3250 per Standard Specifications for Public Works Construction (Green Book).
2. Bus pocket slab, curb and gutter shall be poured monolithically. Optional 3 foot gutter may be placed first for control of flowline however, dowels will be required for second pour.
3. Bus pocket slab shall be 8 inches thick.
4. Pre-molded 0.25 inch thick steel expansion joints shall be placed at beginning and end of bus pocket. 1.5 inch deep contraction joints shall be placed at 30' intervals.
5. All concrete edges shall have 0.5 inch radius unless otherwise noted.
6. Clear drying fugitive dye curing compound shall be applied to all exposed surfaces immediately after finishing.
7. Height of the curb face to be 6-inch standard unless otherwise noted.
8. Joints and sawcuts in existing curbs shall be at right angles.



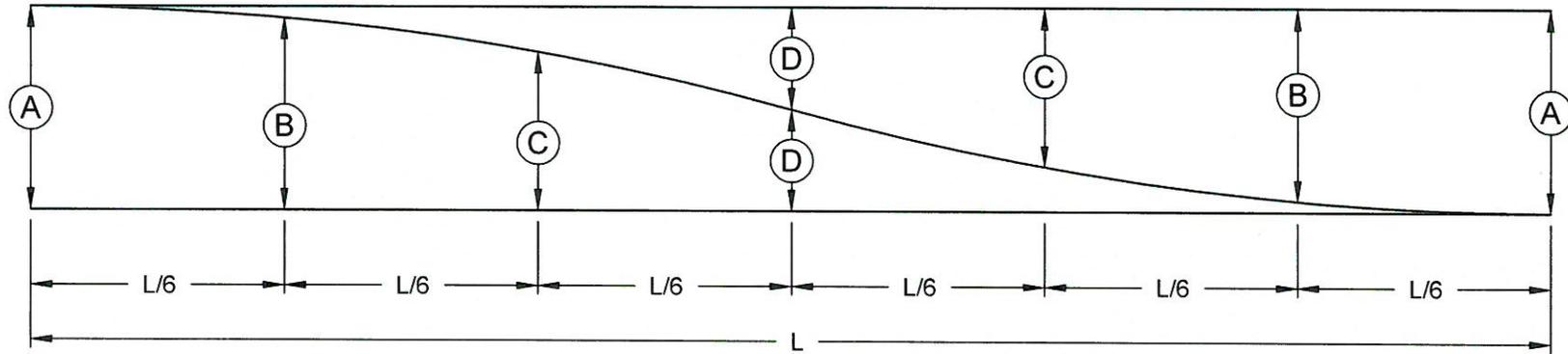
CONCRETE BUS POCKET

REV. DATE: 09/19 | DETAIL: H-08.0

APPROVED:

B. Dan
CITY ENGINEER

Richard B. Jr.
PUBLIC WORKS DIRECTOR



L	L/6	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ
60.00'	10.00'	8.00'	7.56'	6.24'	4.00'	114.50'
30.00'	5.00'	8.00'	7.58'	6.29'	4.00'	30.13'



CONCRETE BUS POCKET

REVERSE TAPER - GEOMETRICS

REV. DATE: 09/19 | DETAIL: H-08.1

APPROVED:

09/23/19 *Brida*
 CITY ENGINEER
Kerrigan Bjir
 PUBLIC WORKS DIRECTOR