

STREET STANDARD PLANS

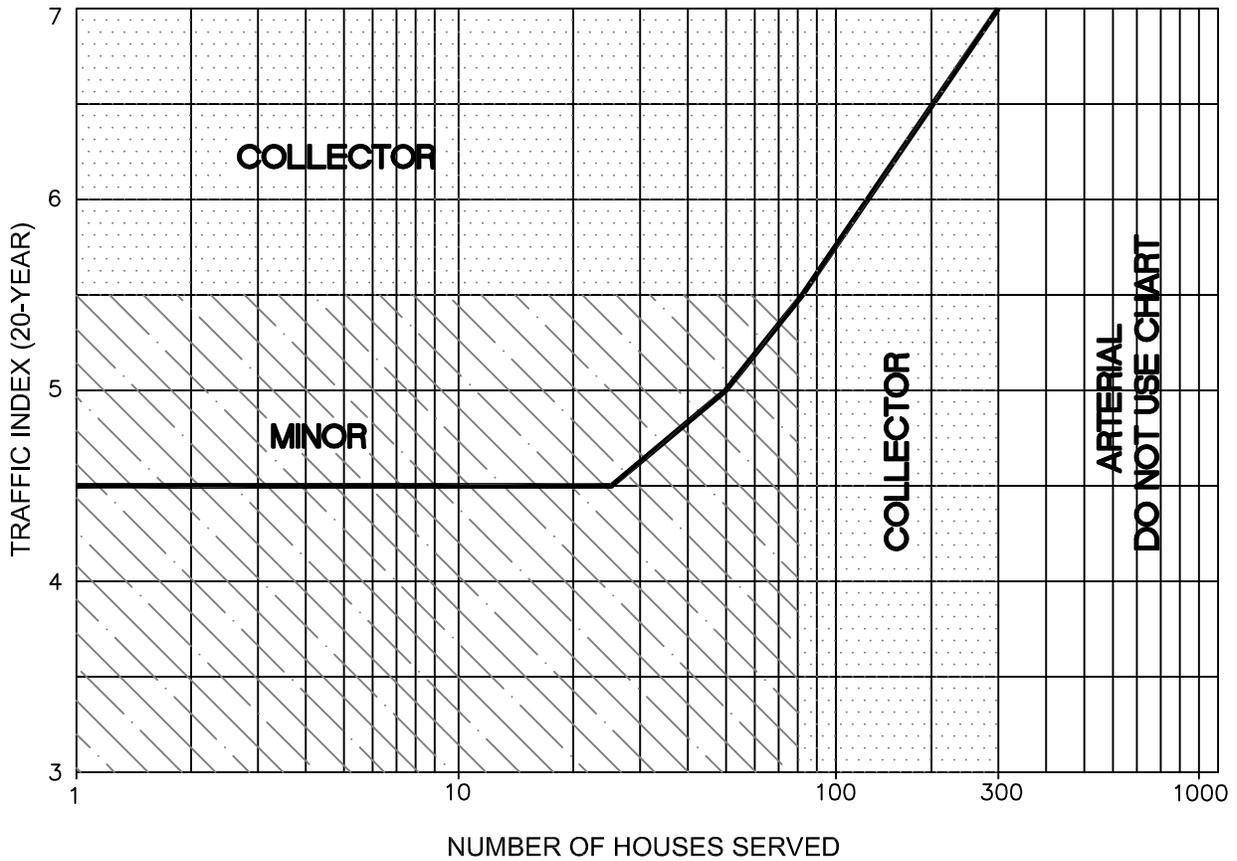
DESCRIPTION

200 SERIES - STREETS

201	Traffic Index Chart for Flexible Pavements
202	Structural Design Chart for Flexible Pavements
203	Street Layout
204	Street Sections
205	Curb, Gutter and Sidewalk
206	Curb and Gutter Near Tree Details
207	Curb Return, Sidewalk Warp and Corner Bulbout Retrofit
208	Visibility Requirements
209	Pedestrian Ramp Details
210	Driveway Details
211	Bus Turnout Details
212	Residential Cul-de-Sac
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215	Street Widening/Paveout Detail
216	Side Street and End of Overlay Conform
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CHART FOR ESTIMATION OF TRAFFIC INDEX
USING A HOUSE COUNT



$$T.I. = 2.472 (\text{HOUSES})^{0.1825}$$

MIN. T.I. = 4.5

NOTES:

1. FOR USE WITHIN SUBDIVISIONS, RESIDENTIAL AND RESIDENTIAL COLLECTOR STREETS.
2. FOR ALL OTHER STREETS, THE T.I. WILL BE DETERMINED BY THE CITY ENGINEER.
3. CHART IS BASED ON A 20 YEAR DESIGN LIFE.

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**TRAFFIC INDEX CHART
FOR FLEXIBLE PAVEMENTS**

STD. NO.
201

SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Mannett*

DATE: OCT 2009

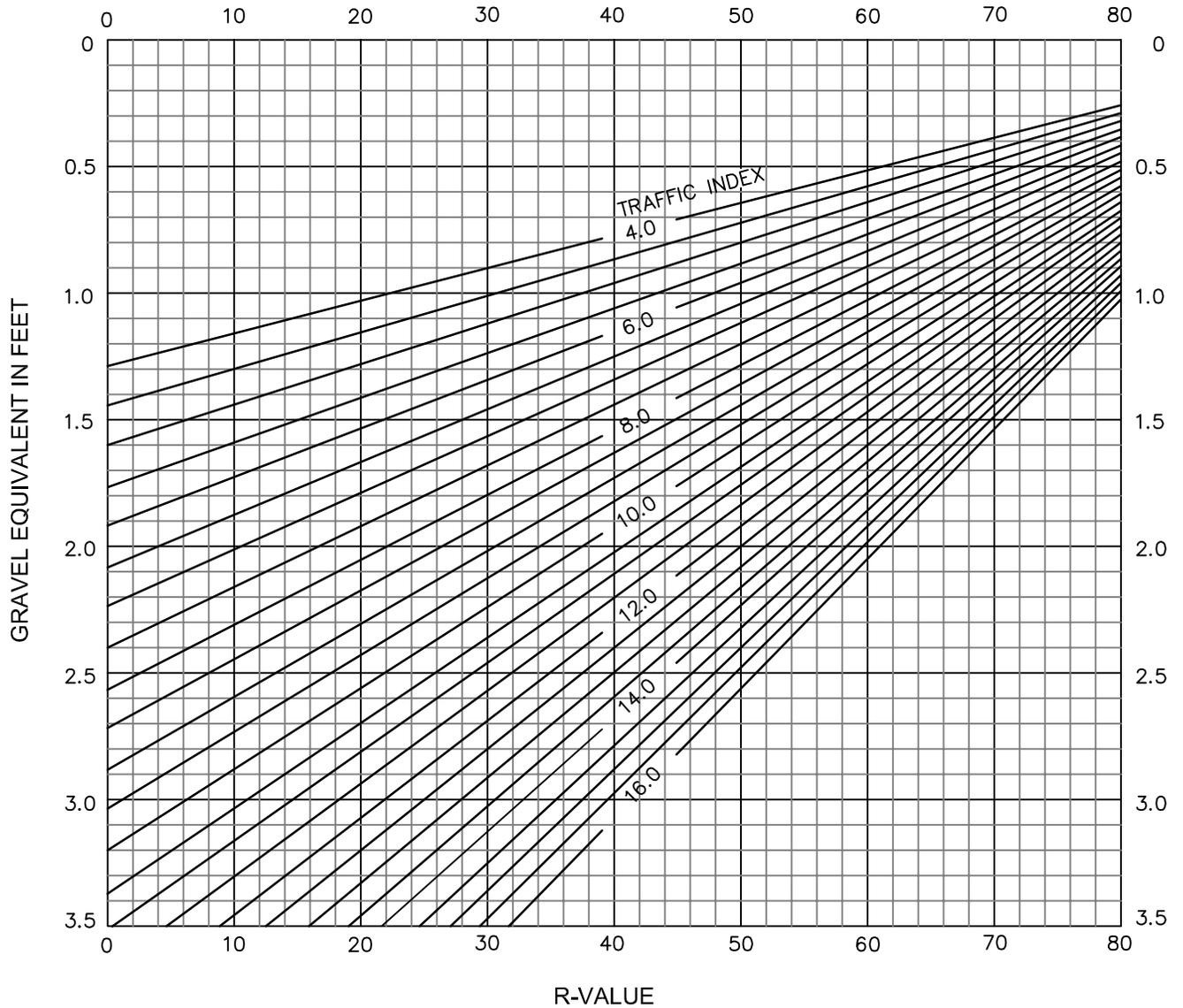
STRUCTURAL DESIGN CHART FOR FLEXIBLE PAVEMENTS

EQUATION:

$$G.E. = 0.0032 (T.I.)(100-R)$$

WHERE:

- G.E. = GRAVEL EQUIVALENT
- T.I. = TRAFFIC INDEX
- R = RESISTANCE VALUE



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STRUCTURAL DESIGN CHART FOR FLEXIBLE PAVEMENTS

STD. NO.
202

SCALE: NONE

DRAWN: CFB

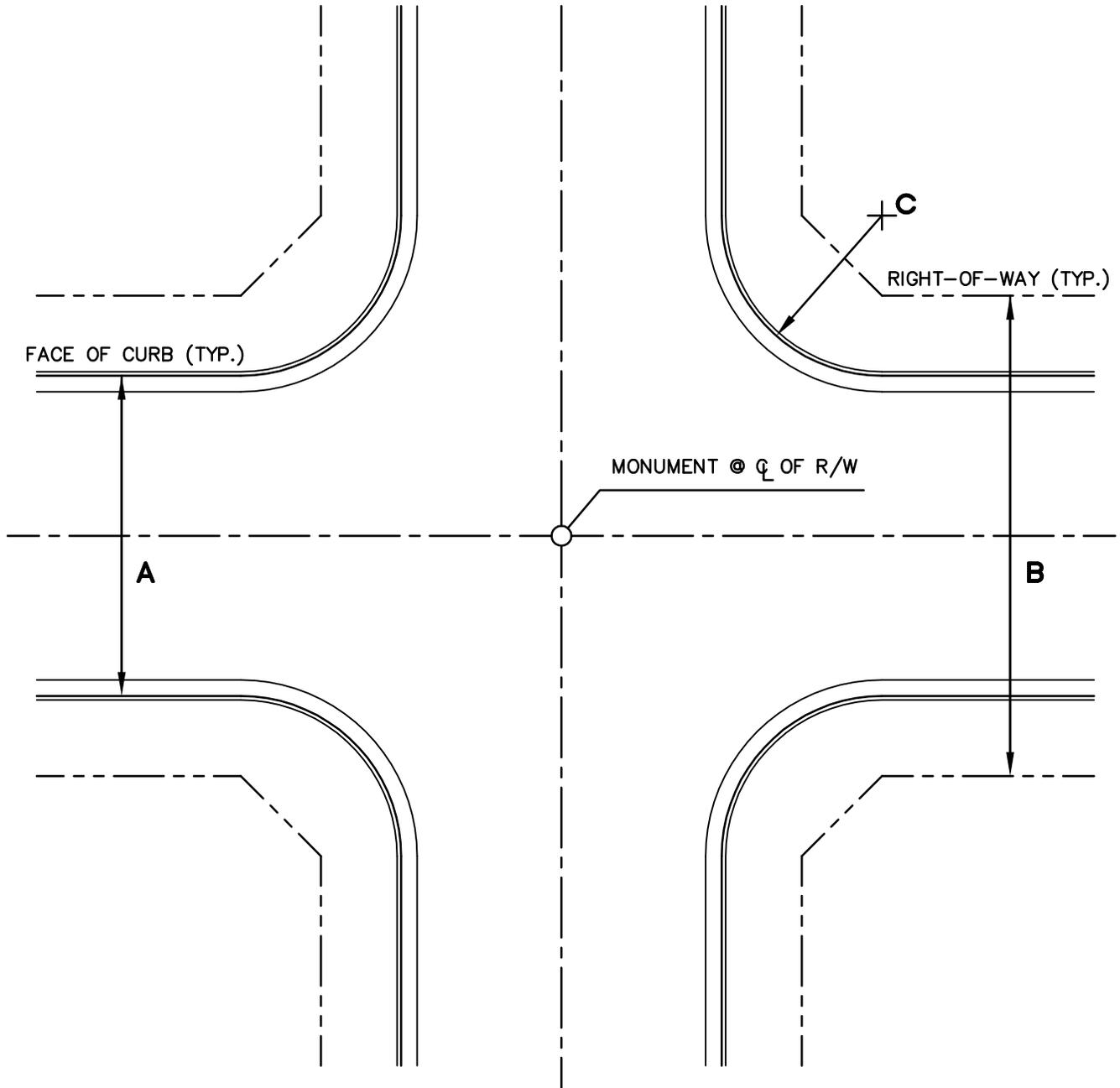
CHK: MGK

APPVD: *Thomas M. Mannett*

DATE: OCT 2009

STREET TYPE	A CURB TO CURB WIDTH	B RIGHT-OF-WAY WIDTH	C CURB RETURN RADIUS
ARTERIAL	70' - 84'	88' - 102' * **	35'
COLLECTOR	36'	56' *	30'
INDUSTRIAL/COMMERCIAL	40'	60' **	35'
RESIDENTIAL/MINOR	34'	56' **	20'

* ADDITIONAL LANDSCAPE PARCELS & PUBLIC UTILITY EASEMENTS MAY BE REQUIRED PER ZONING CODE.
 ** ADDITIONAL PUBLIC UTILITY EASEMENTS MAY BE REQUIRED ON BOTH SIDES OF RIGHT-OF-WAY.



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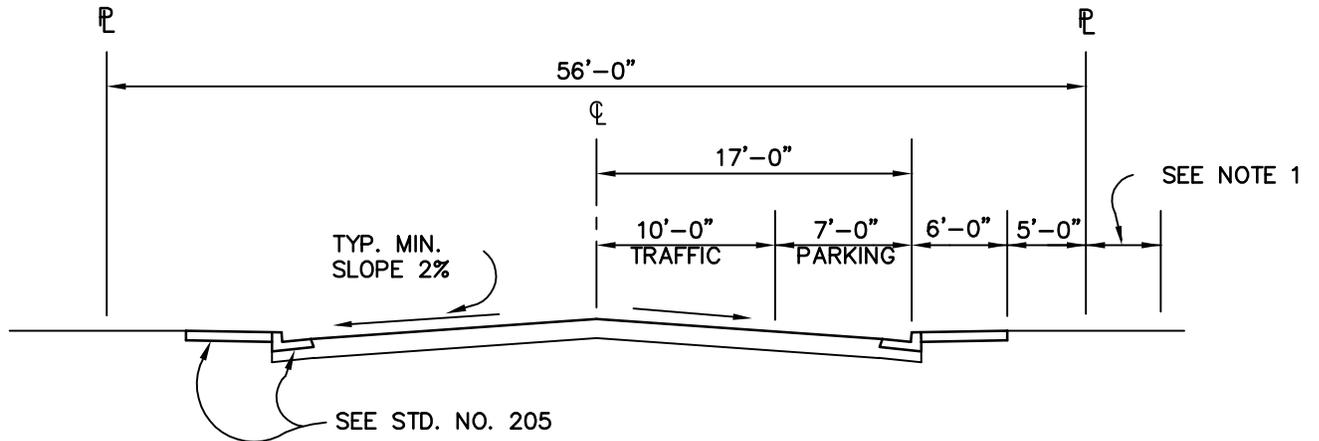
STREET LAYOUT

STD. NO.
203

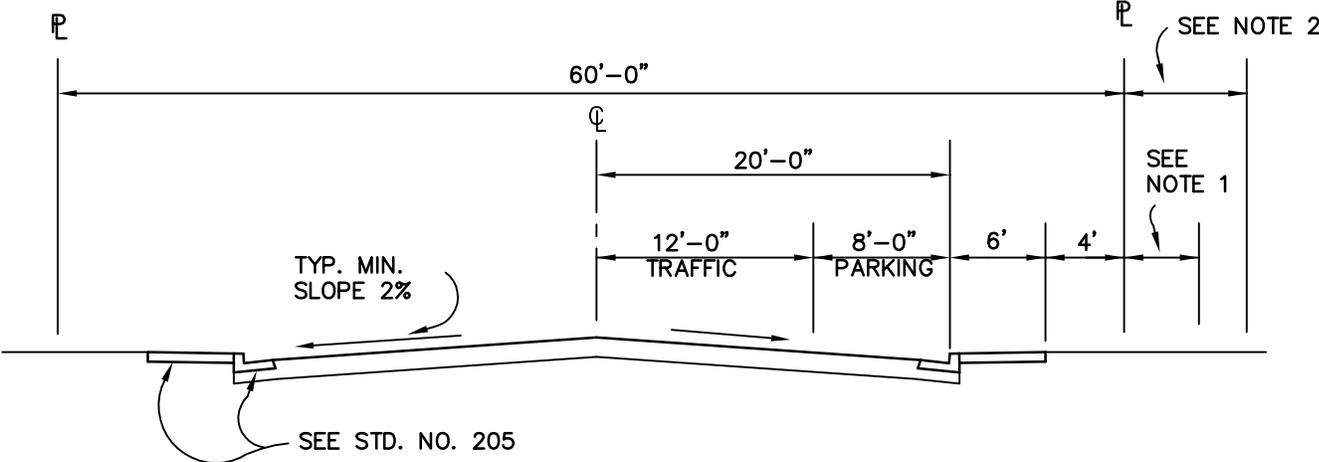
SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mannett*

DATE: OCT 2009

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MINOR



COLLECTOR

NOTES:

1. ADDITIONAL P.U.E.'S IF REQUIRED BY UTILITY COMPANIES.
2. ADDITIONAL LANDSCAPE PARCELS IF REQUIRED BY ZONING CODE.
3. WHEN BIKE LANES ARE REQUIRED, ADD 10' TOTAL TO PAVEMENT SECTION AND RIGHT-OF-WAY.

SHEET 1 OF 4



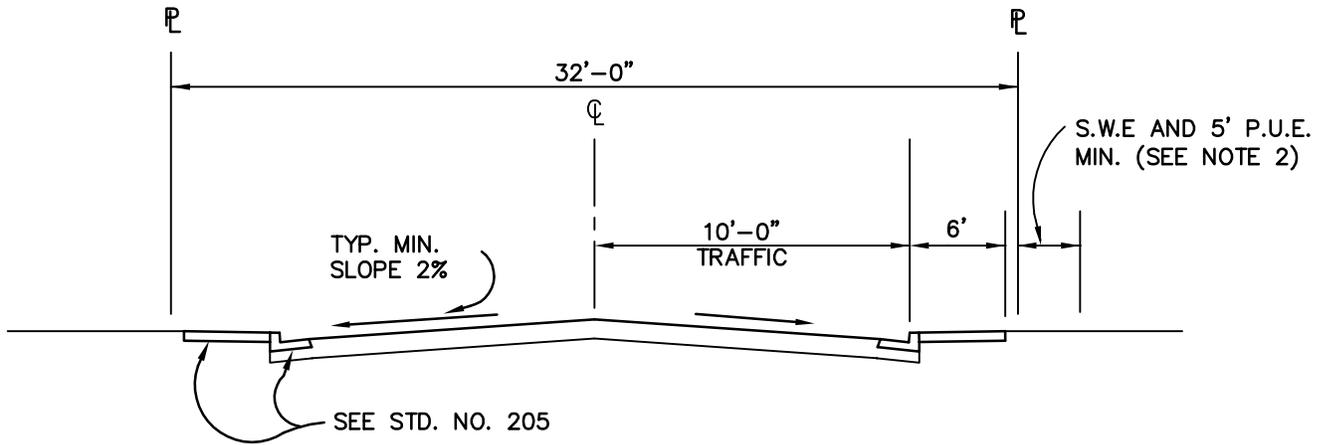
MINOR AND COLLECTOR STREET SECTION

STD. NO.
204

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mannett*

DATE: OCT 2009

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NOTES:

1. THIS STANDARD SHALL BE USED ONLY WITH THE EXPRESS AUTHORIZATION OF THE CITY ENGINEER.
2. ADDITIONAL P.U.E. IF REQUIRED BY UTILITY COMPANIES.
3. THIS STANDARD MAY BE USED IN R-1 SUBDIVISIONS ONLY.
4. STREET MUST BE POSTED "NO PARKING" ON BOTH SIDES.
5. A MINIMUM 20' x 20' PAVED GUEST PARKING AREA SHALL BE PROVIDED ON EACH LOT IN ADDITION TO PARKING REQUIRED BY THE ZONING ORDINANCE.
6. THE MINIMUM CENTERLINE RADIUS IS 100 FEET.
7. NO GRADE RATE IN EXCESS OF 15% WILL BE ALLOWED UNLESS AUTHORIZED BY THE CITY ENGINEER.
8. THE MINIMUM LENGTH OF VERTICAL PARABOLIC CURVES SHALL BE 100 FEET.
9. THE MAXIMUM CROSS SLOPE IN CUL-DE-SAC BULBS SHALL BE 8%.

SHEET 2 OF 4



**HILLSIDE MINOR
STREET SECTION**

STD. NO.
204

SCALE: NONE

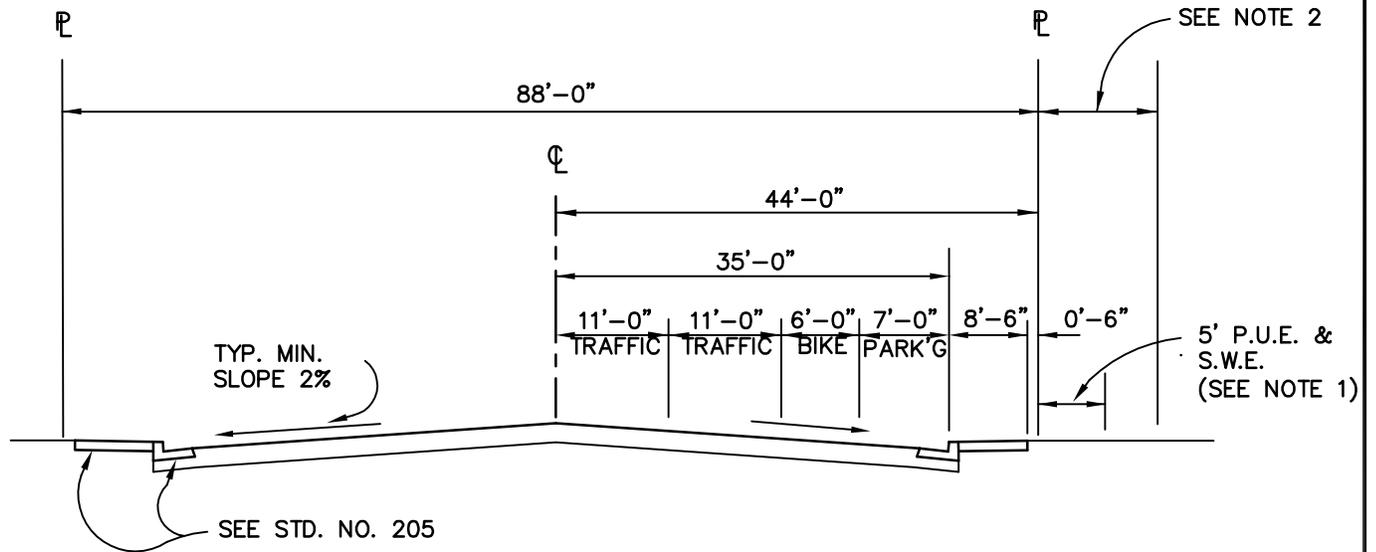
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CHK: MGK

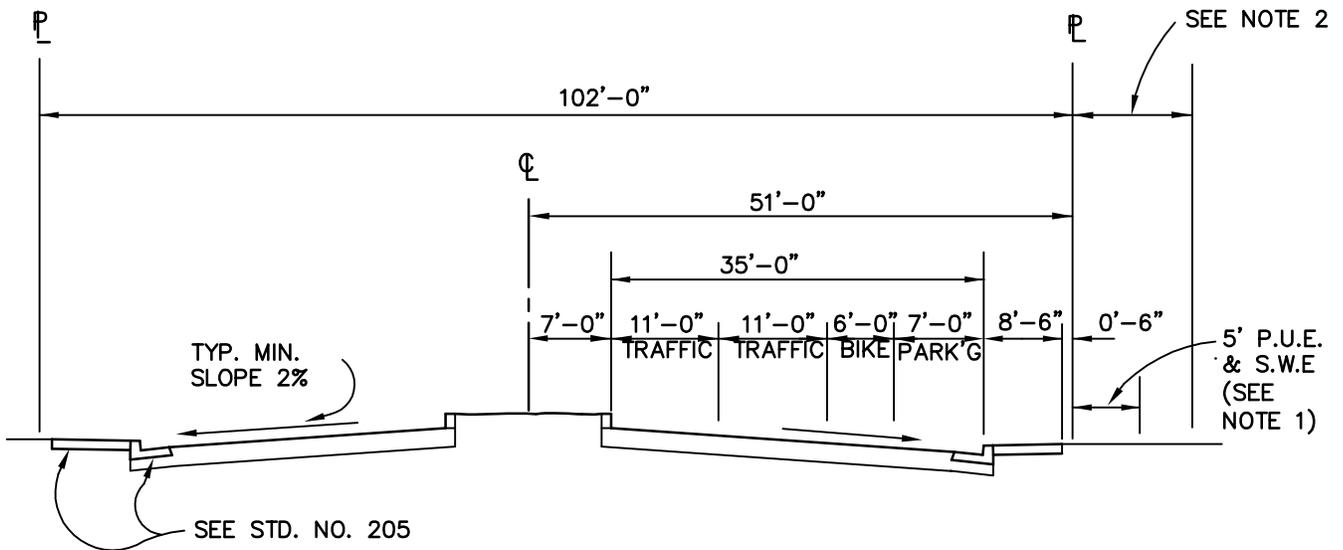
APPVD: *Thomas M. Mennett*

DATE: OCT 2009

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UNDIVIDED



DIVIDED

NOTES:

1. ADDITIONAL P.U.E.'S IF REQUIRED BY UTILITY COMPANIES.
2. ADDITIONAL LANDSCAPE PARCELS IF REQUIRED BY ZONING CODE.
3. WHEN BIKE LANES ARE REQUIRED, ADD 12' TOTAL TO PAVEMENT SECTION AND RIGHT-OF-WAY.

SHEET 3 OF 4

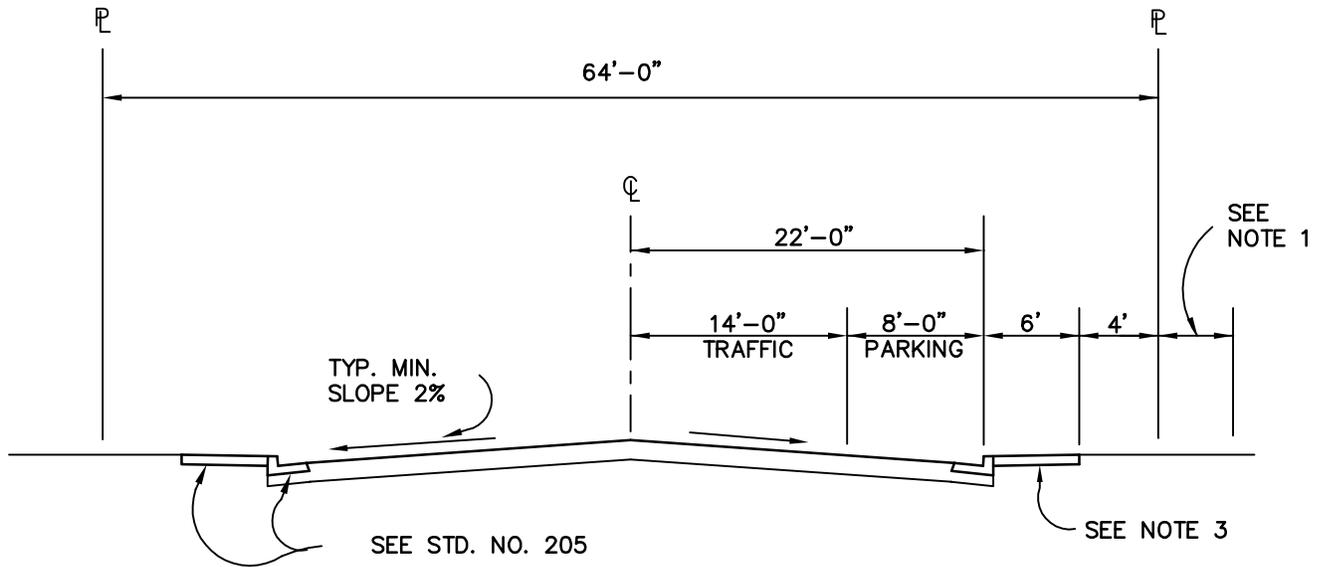


**ARTERIAL
STREET SECTION**

STD. NO.
204

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mennett*

DATE: OCT 2009



NOTES:

1. ADDITIONAL P.U.E.'S IF REQUIRED BY UTILITY COMPANIES.
2. WHEN BIKE LANES ARE REQUIRED, ADD 10' TOTAL TO PAVEMENT SECTION AND RIGHT-OF-WAY.
3. CONSTRUCTION OF SIDEWALKS SHALL BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER.

SHEET 4 OF 4



**INDUSTRIAL/COMMERCIAL
STREET SECTION**

STD. NO.
204

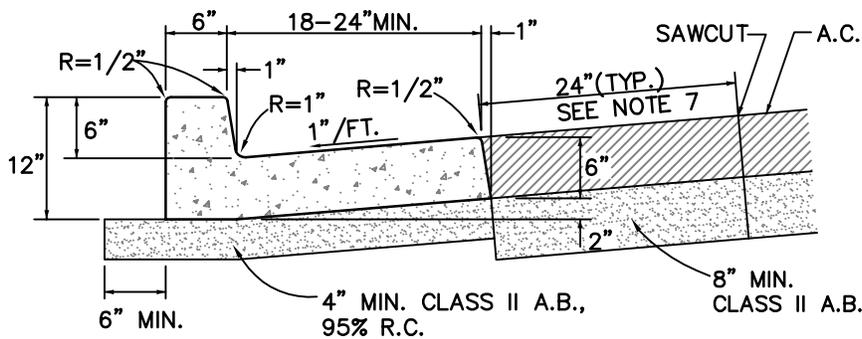
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DRAWN: CFB

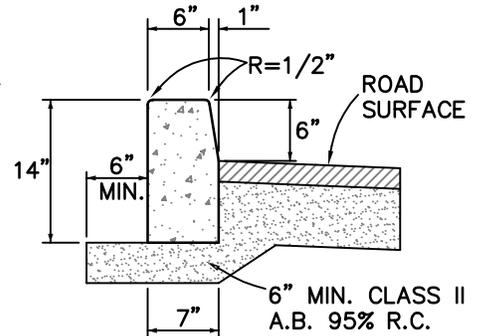
CHK: MGK

APPVD: *Thomas M. Mannett*

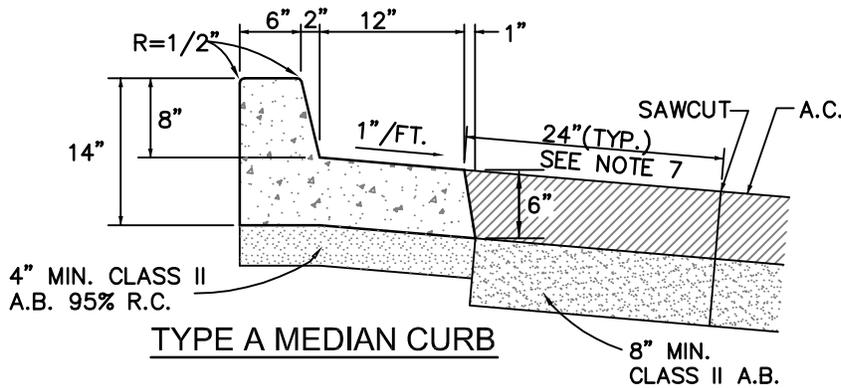
DATE: OCT 2009



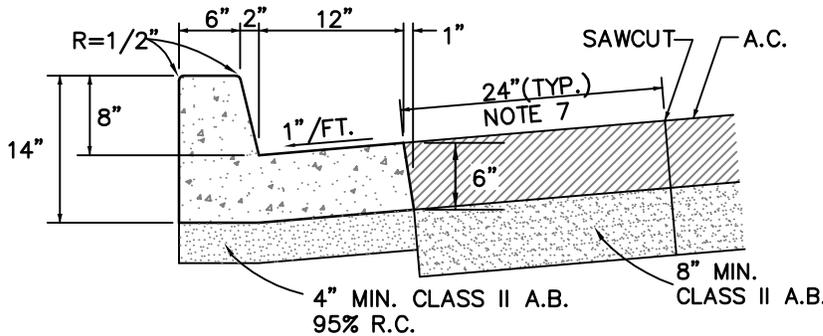
STANDARD CURB AND GUTTER



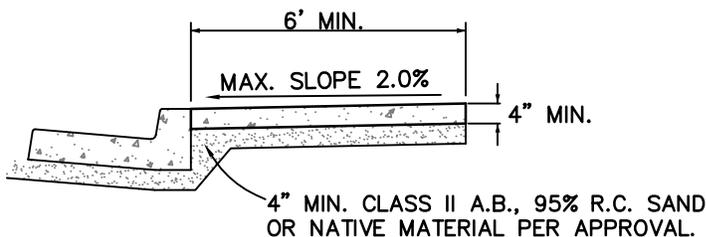
STANDARD VERTICAL CURB



TYPE A MEDIAN CURB



TYPE B MEDIAN CURB



STANDARD SIDEWALK

NOT TO SCALE

NOTES:

1. CONCRETE SHALL BE CLASS A AND SHALL CONTAIN NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD.
2. DEEP SCORES (1/4 WAY THROUGH THICKNESS OF CONCRETE) EVERY 12 FEET.
3. SIDEWALKS SHALL BE SCORED INTO 5 FOOT SQUARES UNLESS OTHERWISE SPECIFIED BY ENGINEER.
4. IF EXTRUSION MACHINE IS USED, EXPANSION JOINTS SHALL BE DEEP SCORED 1/3 THE THICKNESS.
5. WEIGHT OF CURB AND/OR SIDEWALK AND CLASS 2 AGGREGATE SHALL EXCEED THE EXPANSION PRESSURE OF THE BASEMENT SOIL 'R' VALUEE
6. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
7. WHERE APPLICABLE, NEATLY CUT AND REMOVE PAVEMENT. REPLACE WITH NEW A.C. AFTER CURB AND GUTTER IMPROVEMENTS ARE COMPLETE.



CURB, GUTTER AND SIDEWALK

STD. NO.
205

SCALE: NONE

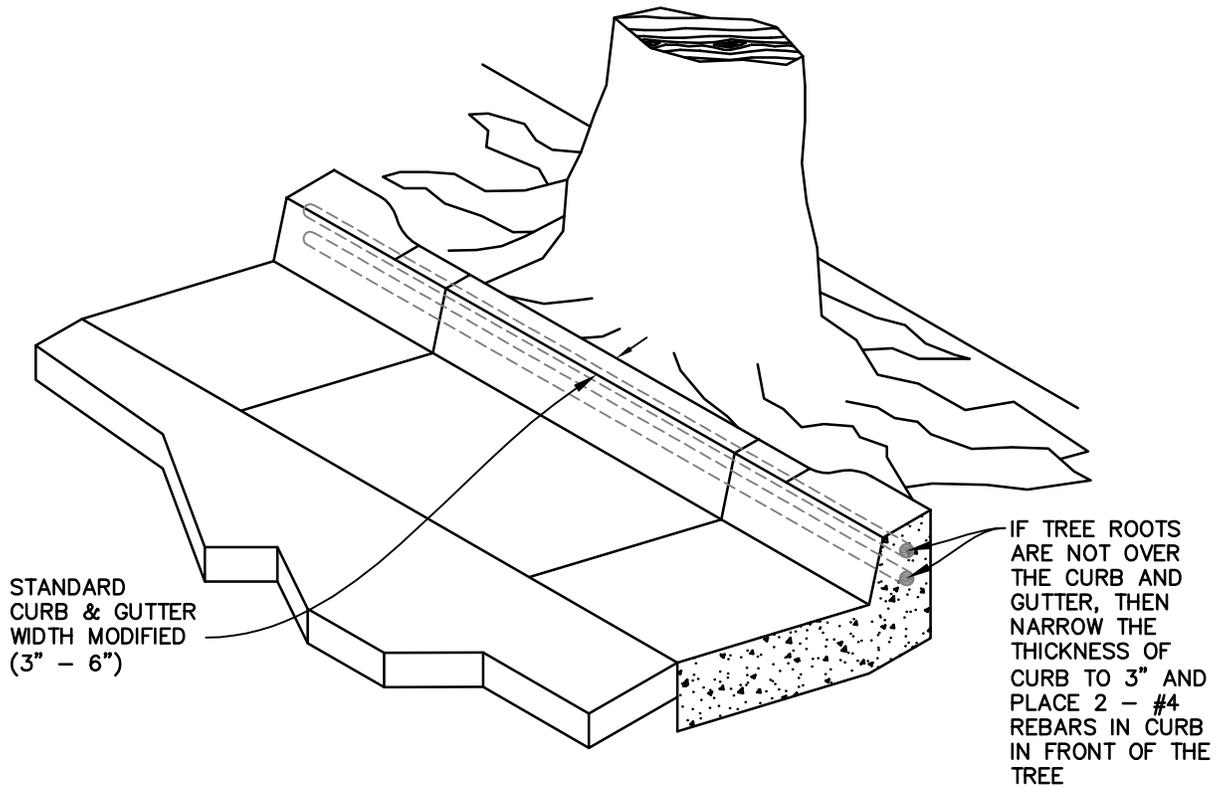
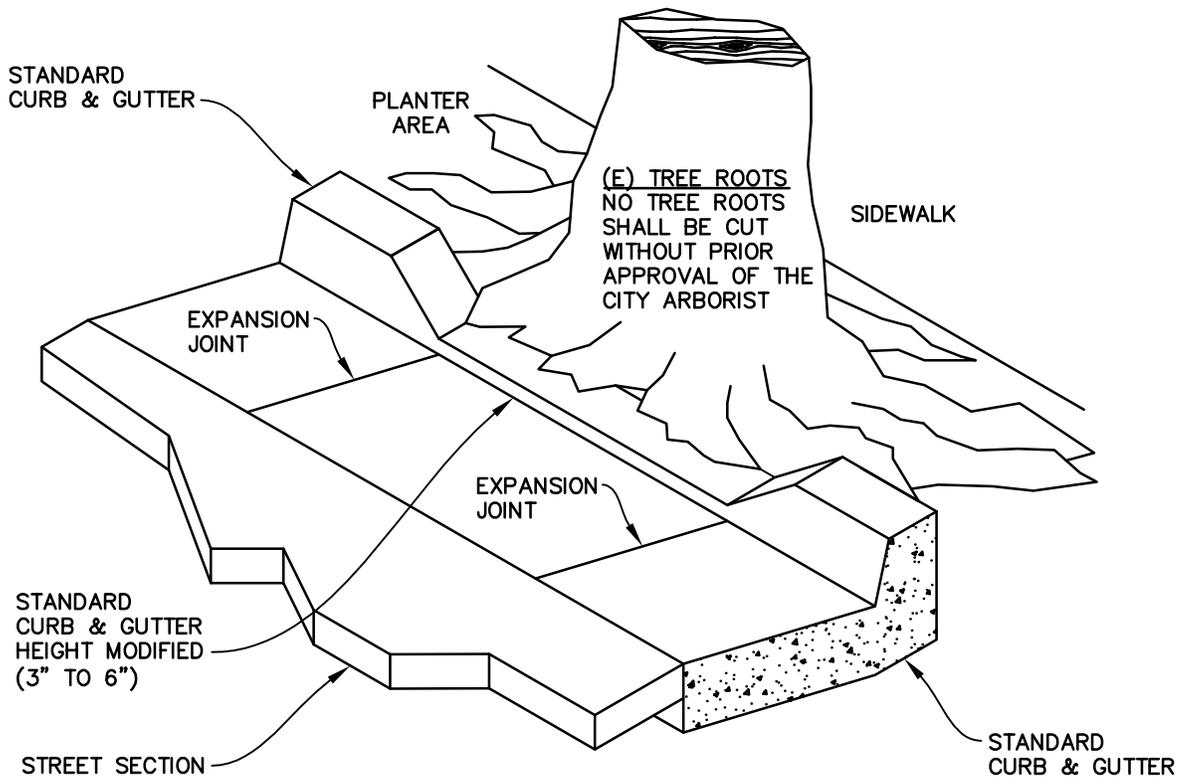
DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Marshall*

DATE: OCT 2009

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CURB AND GUTTER NEAR TREE DETAILS

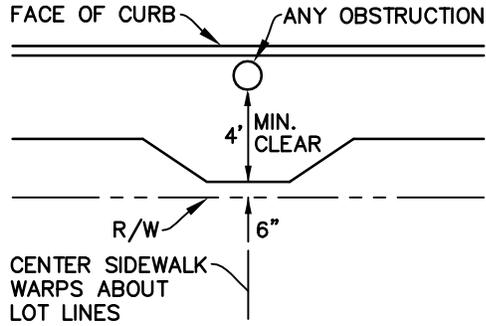
STD. NO.
206

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mannett*

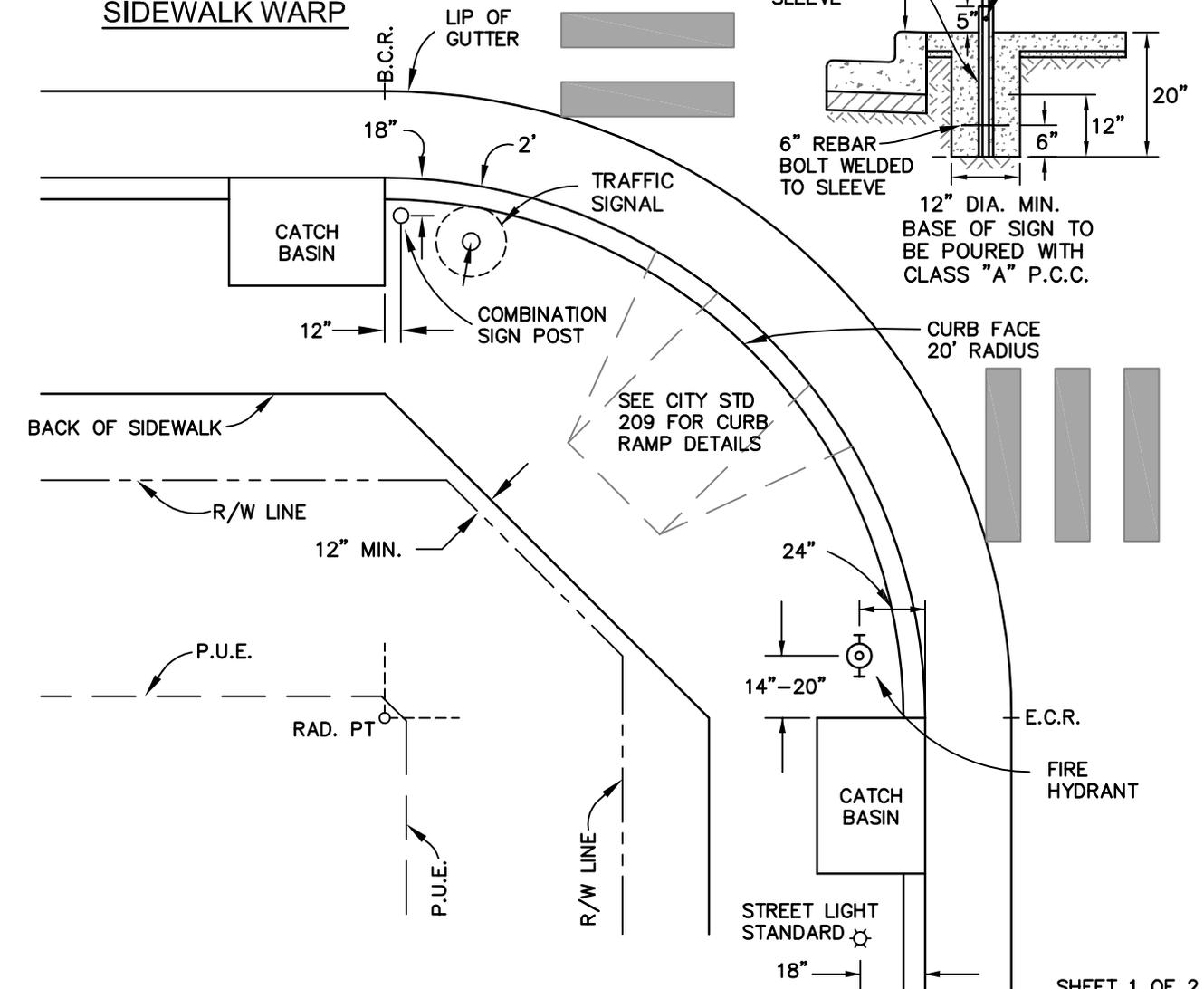
DATE: OCT 2009

NOTES:

1. COMBINATION STREET NAME & STOP SIGN. SIGN POST SHALL BE MINIMUM 18" BEHIND CURB FACE OR 6" BEHIND SIDEWALK.
2. WIDEN OR MEANDER SIDEWALK AT OBSTRUCTIONS (INCLUDING DRIVEWAYS) TO MAINTAIN 4' MIN. CLEARANCE.
3. A 3' CLEAR SPACE SHALL BE MAINTAINED AROUND THE FIRE HYDRANT EXCEPT AS OTHERWISE REQUIRED OR APPROVED.



SIDEWALK WARP



SHEET 1 OF 2

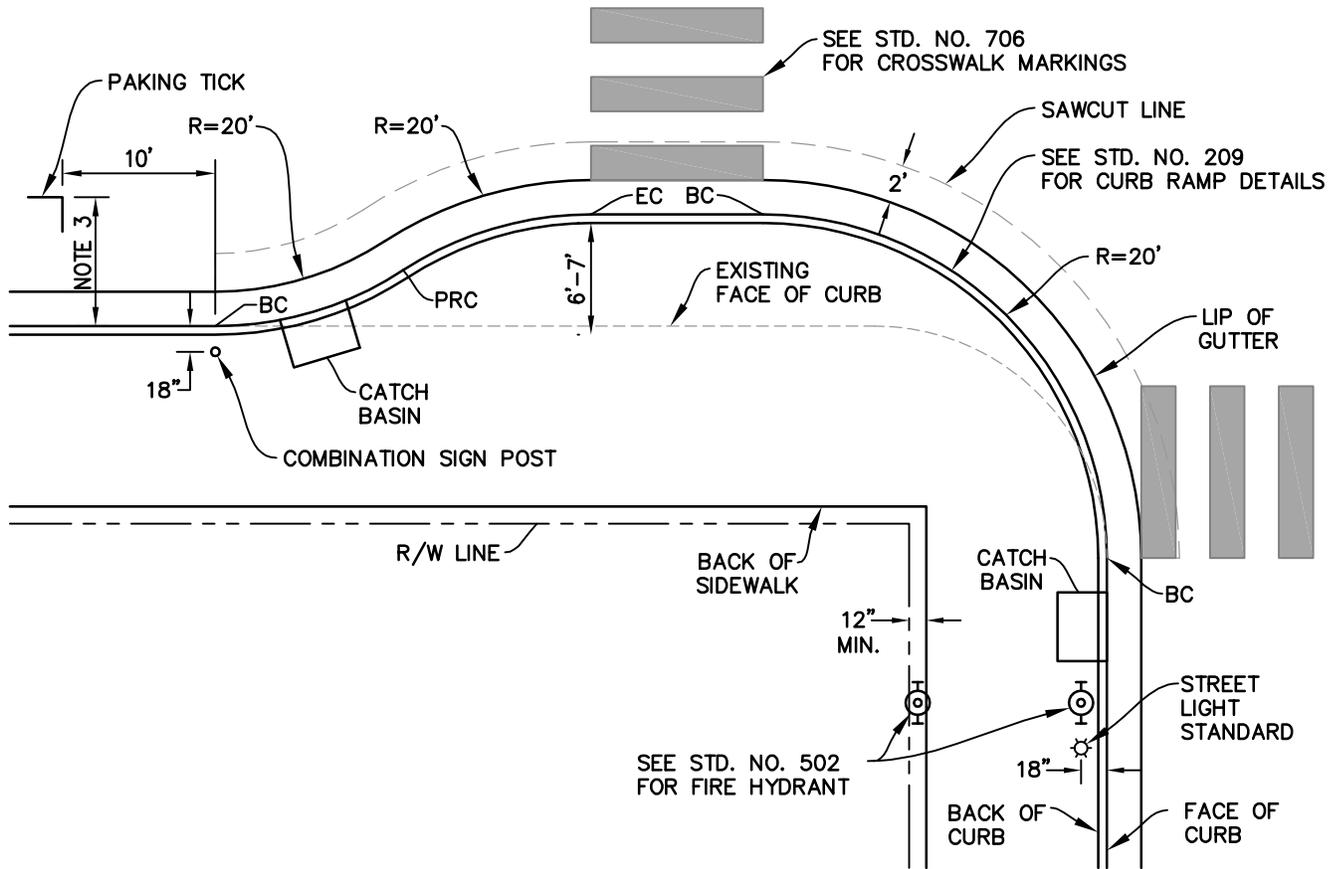
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CURB RETURN, SIDEWALK WARP AND CORNER BULBOUT RETROFIT

STD. NO. **207**

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Marshall* | DATE: OCT 2009



NOTES:

1. COMBINATION STREET NAME & STOP SIGN. SIGN POST SHALL BE MINIMUM 18" BEHIND CURB FACE OR 6" BEHIND SIDEWALK
2. WIDEN OR MEANDER SIDEWALK AT OBSTRUCTIONS (INCLUDING DRIVEWAYS) TO MAINTAIN 6' MIN. CLEARANCE.
3. MATCH PARKING WIDTH.

SHEET 2 OF 2



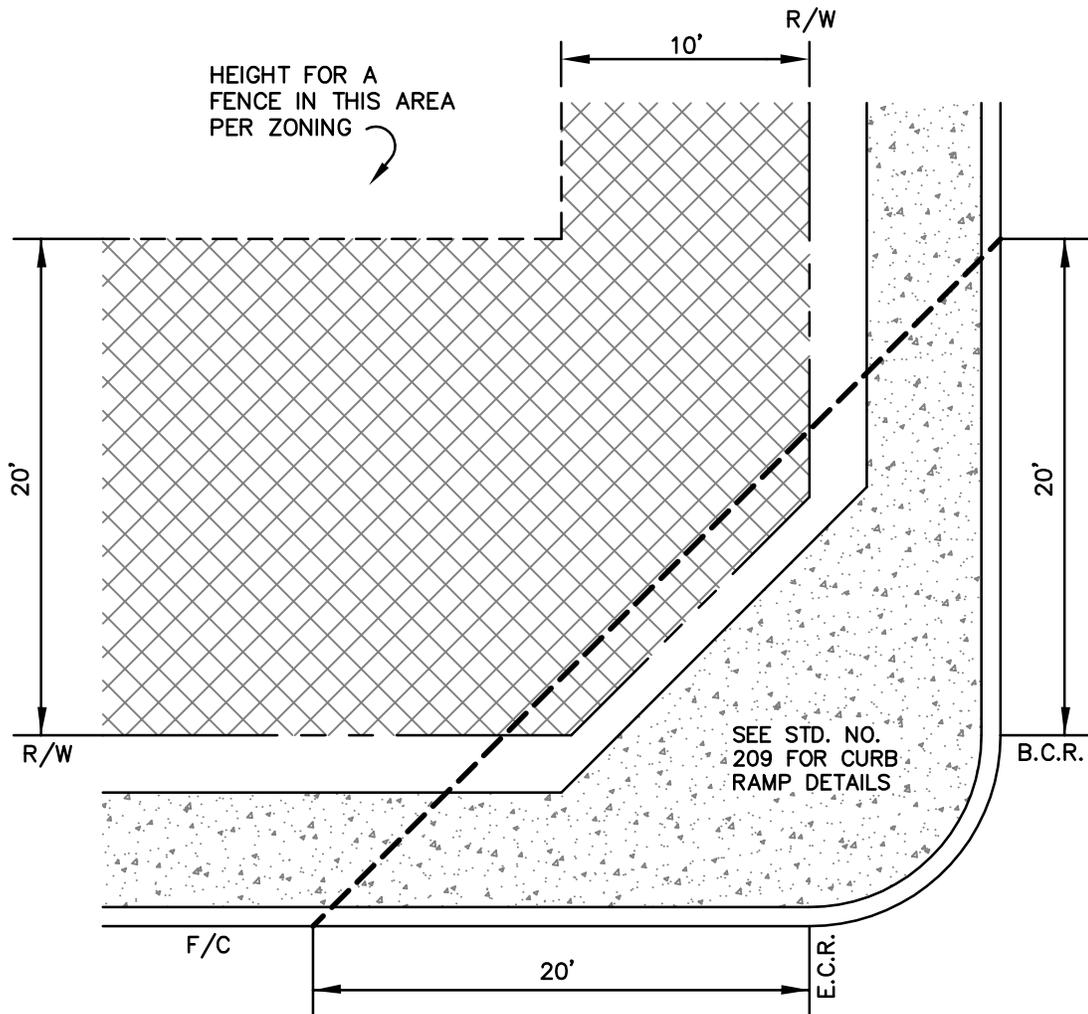
**CURB RETURN, SIDEWALK WARP
AND CORNER BULBOUT RETROFIT**

STD. NO.
207

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mennett*

DATE: OCT 2009

Images: Willits Logo.jpg Xrefs: Path: \\erosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits201-210.dwg Layout Name: 208 Plot Date: Sep 29, 2009 at 10:28



INTERSECTION

LEGEND:



WITHIN THIS AREA ALL SHRUBS, BUSHES, FENCES, AND OTHER IMPROVEMENTS SHALL BE RESTRICTED TO A 24" MAXIMUM HEIGHT, AND TREES MAINTAINED TO A CLEARANCE OF 7'-0" ABOVE GROUND (MIN.)



VISIBILITY REQUIREMENTS

STD. NO.
208

SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Mannett*

DATE: OCT 2009

Images: Willits Logo.ppt; Xrefs: Path: \\arosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001\Willits City Standards\CAD\01064-09-001\dwg\Willits201-210.dwg Layout Name: 209 (1) Plot Date: Sep 29, 2009 at 10:28

1. SIDEWALK TRANSITIONS

- LOCATED ABOVE RAMP OR LANDING
- 48" MIN. WIDTH
- 2% (1:50) MAXIMUM CROSS-SLOPE AT RAMP OR LANDING
- 8.33% (1:12) MAXIMUM SLOPE

2. LANDINGS

- LOCATED ABOVE RAMP
- 48" MIN. DIMENSION IN ALL DIRECTIONS
- 2% (1:50) MAXIMUM CROSS-SLOPE OR SLOPE IN ALL DIRECTIONS, INCLUDING DIAGONAL

3. RAMPS

- LOCATED ABOVE PAN OR BELOW LANDINGS
- 48" MIN. WIDTH
- 2% (1:50) MAXIMUM CROSS-SLOPE
- 8.33% (1:12) MAXIMUM SLOPE
- TRANSITION TO GUTTER SHALL BE FLUSH AND FREE OF ABRUPT CHANGES

4. PANS

- LOCATED BELOW RAMP
- 48" MIN. AT BACK OF PAN
- 48" MIN. FROM BACK OF PAN TO FLOW LINE
- 1% (1:100) MINIMUM SLOPE FROM BACK OF PAN TO FLOW LINE
- 2% (1:12) MAXIMUM CROSS-SLOPE OR SLOPE IN ALL DIRECTIONS, INCLUDING DIAGONAL
- ON CORNERS, PAN BOUNDARIES ARE TO BE RADIAL TRANSITION TO GUTTER SHALL BE FLUSH AND FREE OF ABRUPT CHANGES

5. GUTTERS

- ADJACENT TO RAMP OR PAN
- 1% (1:100) MINIMUM SLOPE FROM BACK OF PAN TO FLOW LINE
- 2% (1:12) MAXIMUM CROSS-SLOPE OR SLOPE IN ALL DIRECTIONS, INCLUDING DIAGONAL
- ON CORNERS, PAN BOUNDARIES ARE TO BE RADIAL TRANSITION TO GUTTER SHALL BE FLUSH AND FREE OF ABRUPT CHANGES
- DUAL CURB RAMPS ARE REQUIRED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL ELEMENTS, EXCEPT GUTTERS AND RETAINING CURBS, MUST BE CONSTRUCTED PLANAR IN NATURE WITH WEAKENED PLANE JOINTS SCORED BETWEEN EACH ELEMENT.
- WHEN FEASIBLE, OPPOSING CURB RAMPS SHALL ALIGN, THESE DEFINITIONS AND STANDARDS, GENERAL DETAILS, AND STANDARD DRAWINGS SHALL APPLY TO ALL CURB AND GUTTER TYPES.
- THERE ARE VARIATIONS AND ADJUSTMENTS THAT MAY BE REQUIRED UPON THE APPROVAL OF THE ENGINEER.
- THERE ARE NO VARIANCES THE THE MAXIMUM ALLOWABLE SLOPES AND CROSS-SLOPES.

6. FLARES

- LOCATED ADJACENT TO RAMP
- REQUIRED BETWEEN RAMPS WHERE THERE IS NO PLANTER AREA
- REQUIRED ON THE EXTERIOR OF RAMPS WHERE THERE IS AN ADJACENT CONCRETE SIDEWALK, REGARDLESS OF OBSTACLES
- GENERALLY TRIANGULAR-SHAPED
- 10% (1:10) MAXIMUM SLOPE

7. RETAINING CURB

- REQUIRED ADJACENT TO SIDEWALK TRANSITIONS, LANDINGS, RAMPS, AND PANS WHERE THE EXISTING LANDSCAPE (PLANTER) AREA IS 4" OR HIGHER AT ANY POINT ABOVE THE NEWLY CONSTRUCTED CURB RAMP ELEMENT
- REQUIRED FOR EXISTING PLANTER AREAS BETWEEN RAMPS
- RETAINING CURBS ARE TO HAVE A 6" WIDTH AND A VERTICAL FACE
- RETAINING CURB FOUNDATIONS ARE TO EXTEND 8" BELOW THE ADJACENT RAMP ELEMENT SURFACE
- OUTSIDE CORNERS OF RETAINING CURBS MUST HAVE A 6" RADIUS

8. 12" GROOVING DETAILS

- REQUIRED ADJACENT TO (ON FLAT AREAS ABOVE) RAMP AND FLARE
- REQUIRED TO BE PERPENDICULAR TO THE PATH OF TRAVEL

9. CONCRETE COLORING

- LAMP BLACK OR OTHER COLORING SHALL BE ADDED TO NEW CONCRETE AS NECESSARY TO MATCH EXISTING COLOR. THIS APPLIES TO ALL IN FILL LOCATIONS.

10. DETECTABLE WARNING SURFACE

- DETECTABLE WARNING SURFACE SHALL CONFORM TO CALTRANS STANDARD PLAN RSP A88A OR NEWEST VERSION.

11. SIGHT DISTANCE

- MATURE PLANT HEIGHT IN LANDSCAPE PLANTER STRIPS SHALL NOT EXCEED 24" WITHIN CORNER SIGHT VISIBILITY TRIANGLES

SHEET 1 OF 12



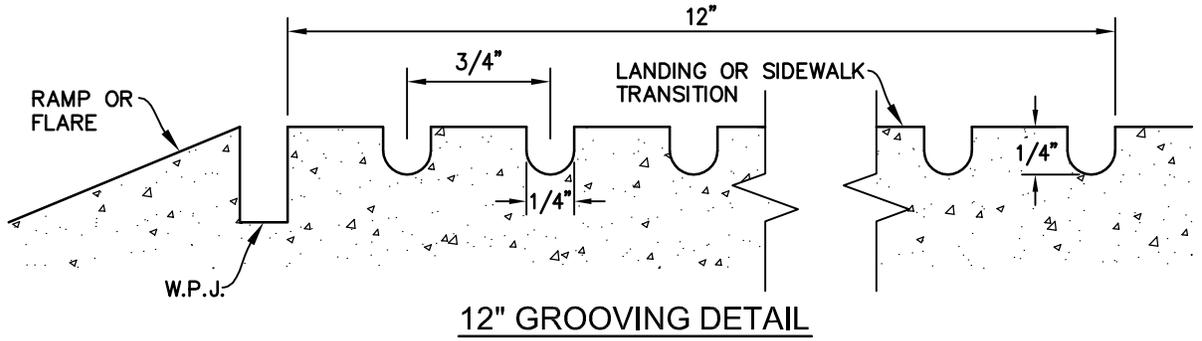
**PEDESTRIAN RAMP ELEMENTS
DEFINITIONS AND STANDARDS**

STD. NO.
209

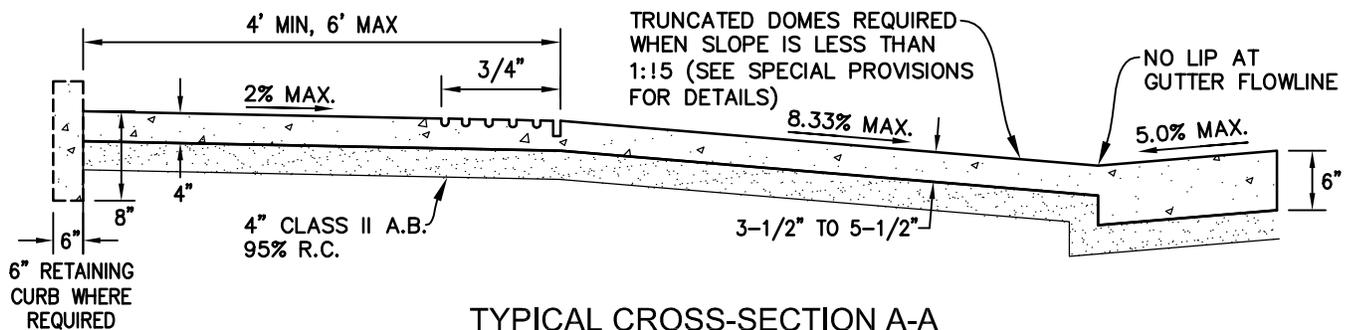
SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mennett*

DATE: OCT 2009

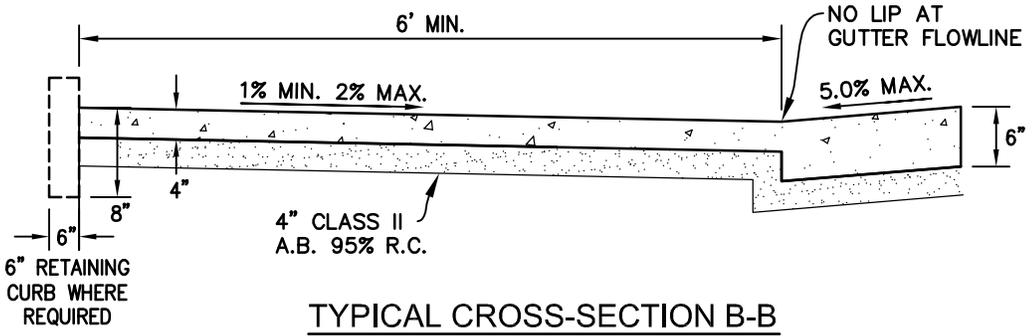
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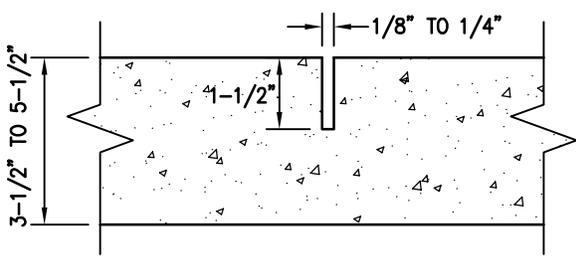
12" GROOVING DETAIL



TYPICAL CROSS-SECTION A-A FOR CENTERLINE OF TYPE A,B,C



TYPICAL CROSS-SECTION B-B FOR CENTERLINE OF TYPE F



WEAKENED PLANE JOINT (WPJ)

NOTES:

1. ON RAMPS ADJACENT TO PANS TRUNCATED DOMES ARE REQUIRED WHEN SLOPE IS LESS THAN 1:15 (SEE STANDARD SPECIFICATIONS FOR DETAILS).
2. SURFACE OF RAMPS AND PANS SHALL HAVE A TRANSVERSE BROOM SURFACE TEXTURE ROUGHER THAN ADJACENT SIDEWALK.



PEDESTRIAN RAMP GENERAL DETAILS

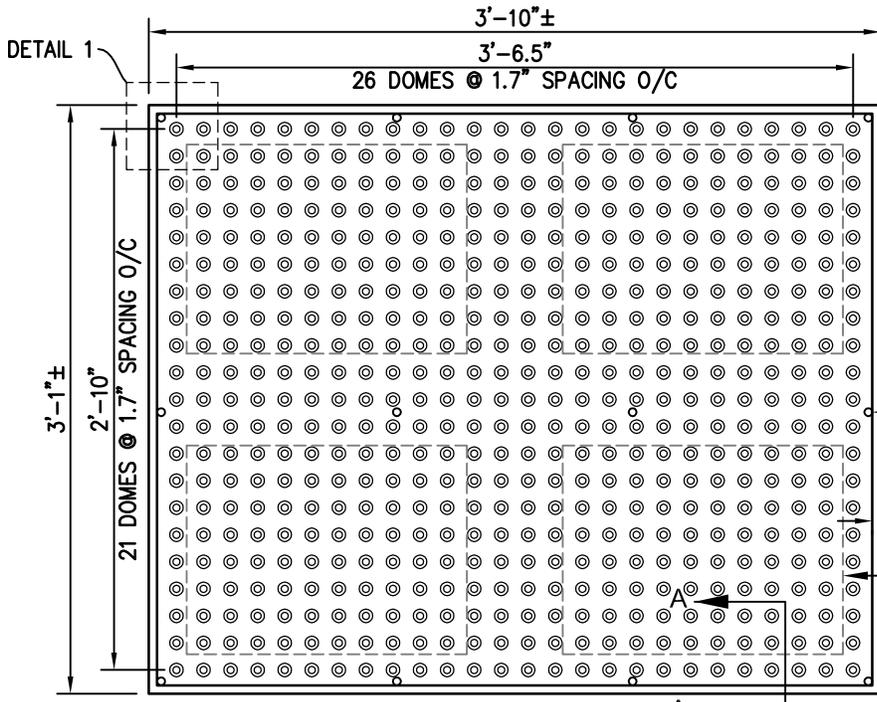
STD. NO.
209

SCALE: NONE DRAWN: CFB CHK: MGK APPVD: *Thomas M. Mennett*

DATE: OCT 2009

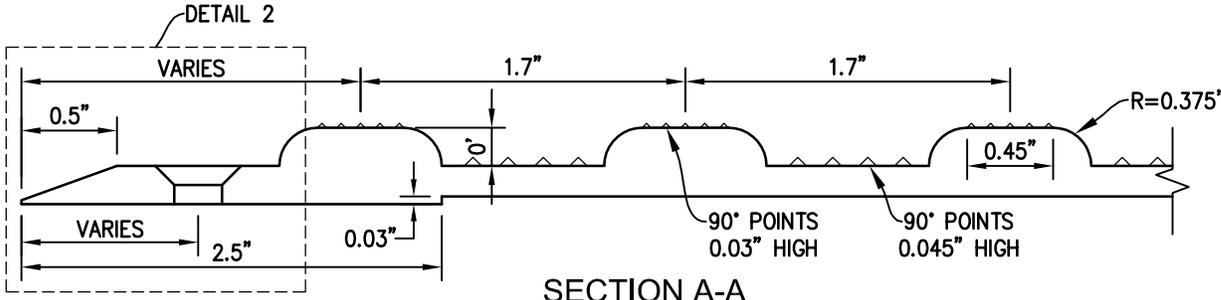
NOTE:

SURFACE MOUNTED TILE DETAILS SHOWN. DETAILS ARE APPLICABLE TO TILE SURFACE SECTION ONLY. CAST-IN-PLACE TILE UNIT DESIGN AND DETAILS TO BE APPROVED BY THE ENGINEER. TILE MATERIAL, FASTENERS, AND ADHESIVE TO BE APPROVED BY THE ENGINEER.

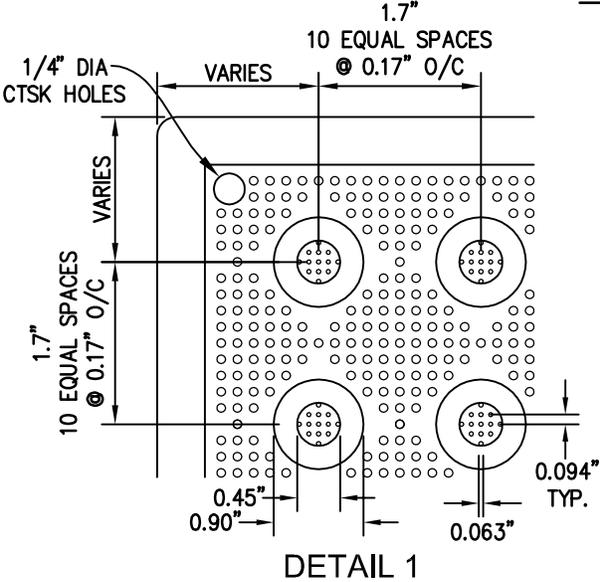


- 1/4" DIA. CTSK HOLES (TYP. 12 LOCATIONS)
- 0.5" (TYP. AROUND PERIMETER)
- 2.5" WIDE BOSS AT UNDERSIDE OF TILE FOR STRUCTURAL ADHESIVE AT FULL PERIMETER AND THROUGH CENTER TILE

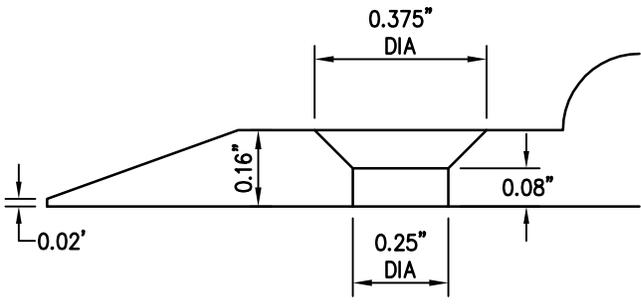
PLAN - TILE



SECTION A-A



DETAIL 1



DETAIL 2

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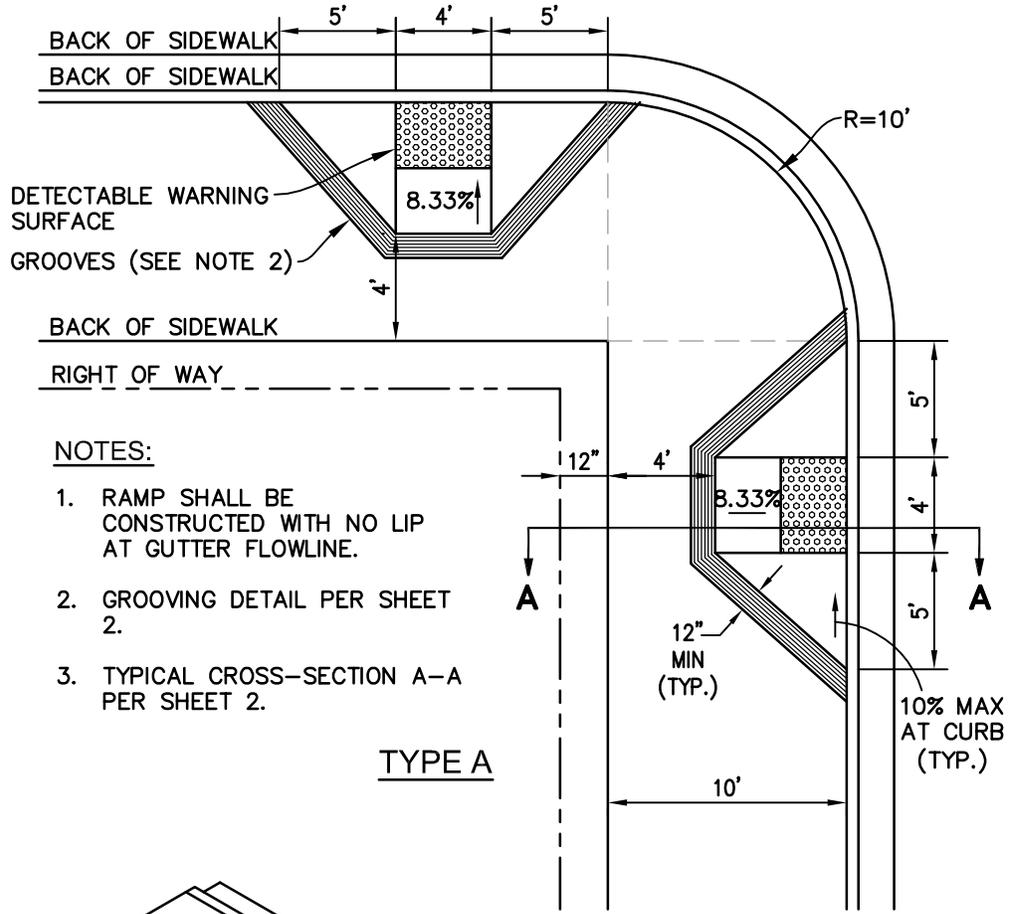
PEDESTRIAN RAMP TRUNCATED DOME DETAILS

STD. NO.
209

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mennett*

DATE: OCT 2009

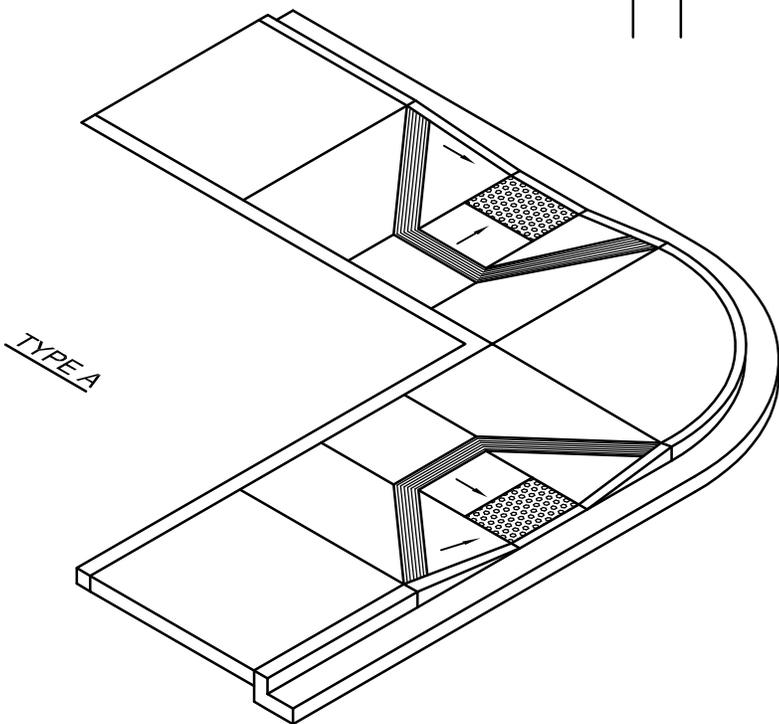
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NOTES:

1. RAMP SHALL BE CONSTRUCTED WITH NO LIP AT GUTTER FLOWLINE.
2. GROOVING DETAIL PER SHEET 2.
3. TYPICAL CROSS-SECTION A-A PER SHEET 2.

TYPE A



TYPE A

SHEET 4 of 12



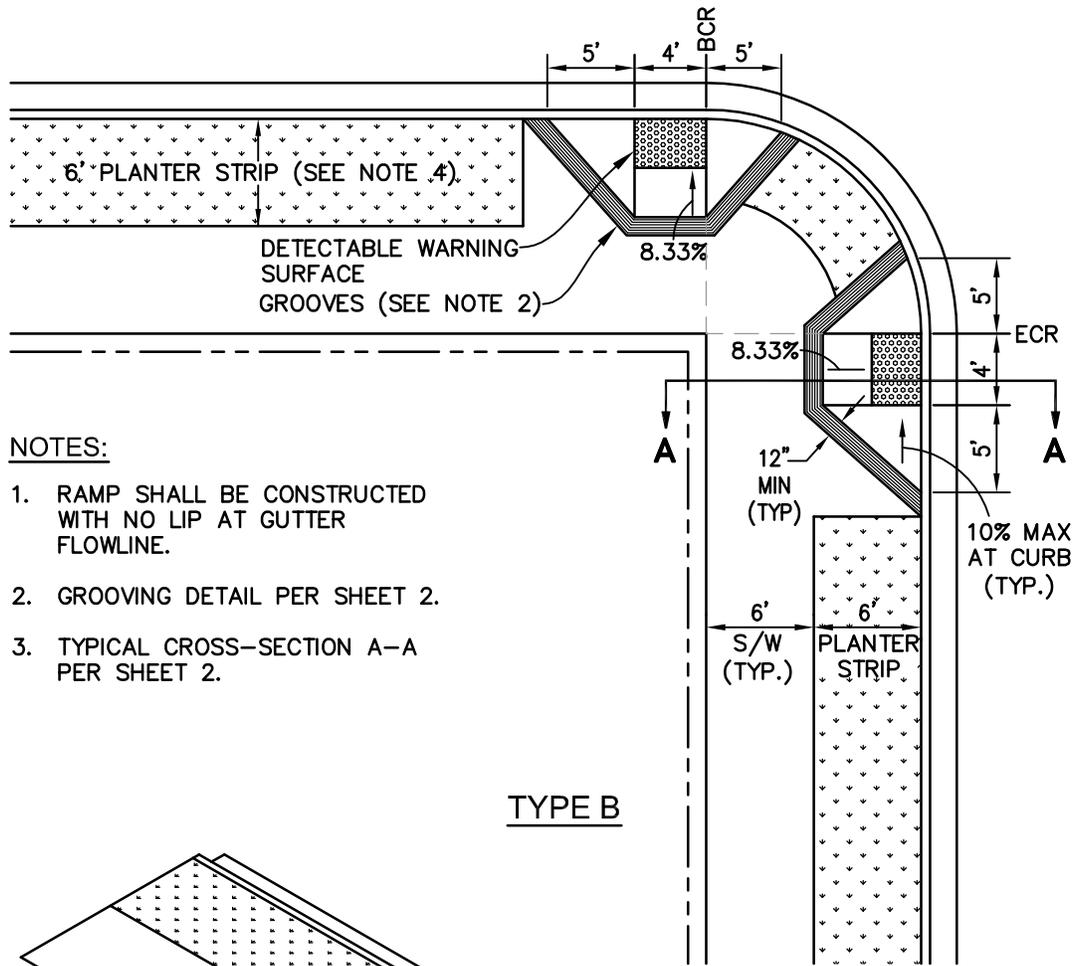
**PEDESTRIAN RAMP
TYPE A**

STD. NO.
209

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mannett*

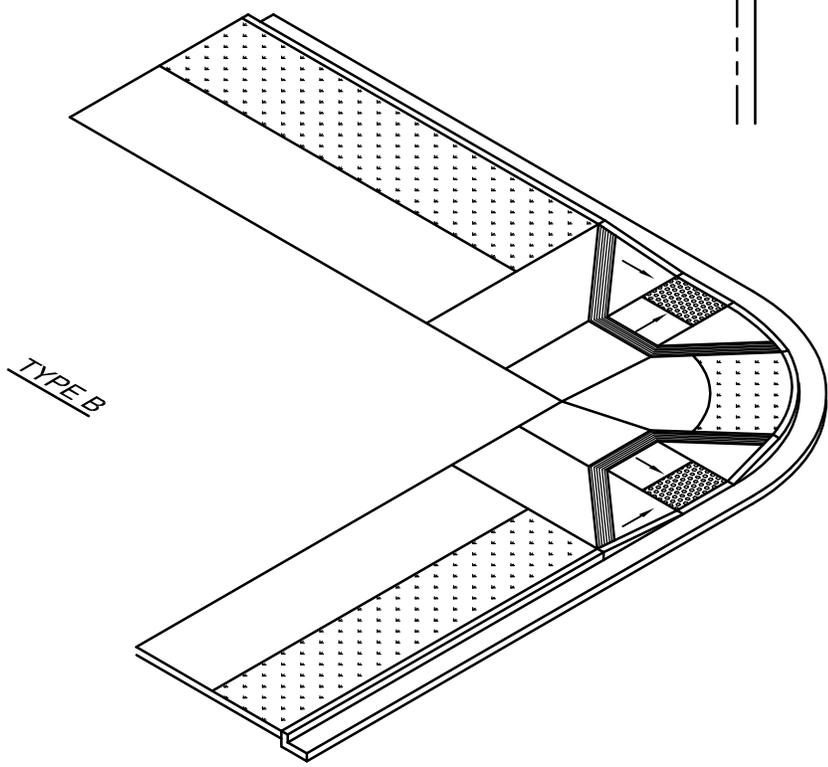
DATE: OCT 2009

Images: Willits Logo.ppt; Xrefs: Path: \\grosrv1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits201-210.dwg Layout Name: 209 (5) Plot Date: Sep 29, 2009 at 10:28



- NOTES:**
1. RAMP SHALL BE CONSTRUCTED WITH NO LIP AT GUTTER FLOWLINE.
 2. GROOVING DETAIL PER SHEET 2.
 3. TYPICAL CROSS-SECTION A-A PER SHEET 2.

TYPE B



TYPE B

SHEET 5 of 12



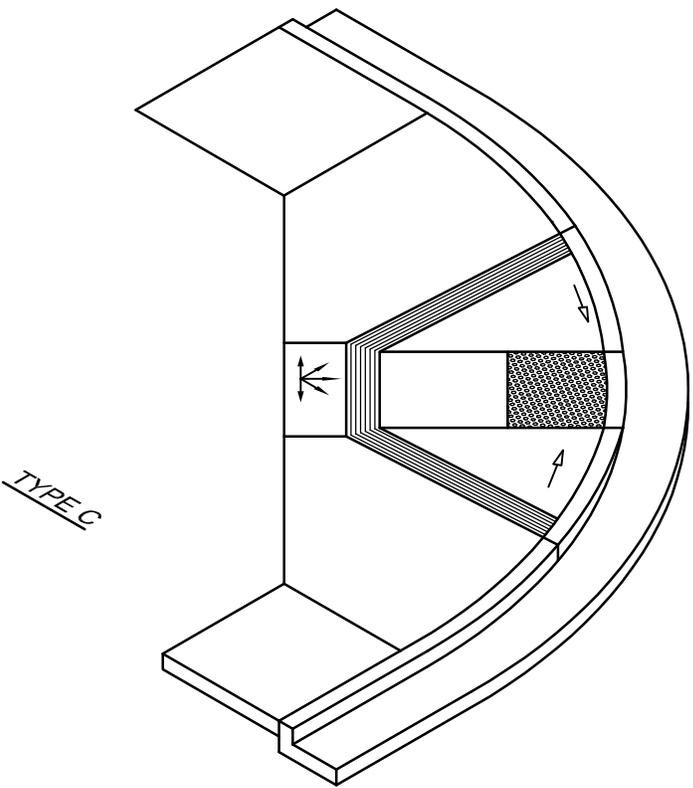
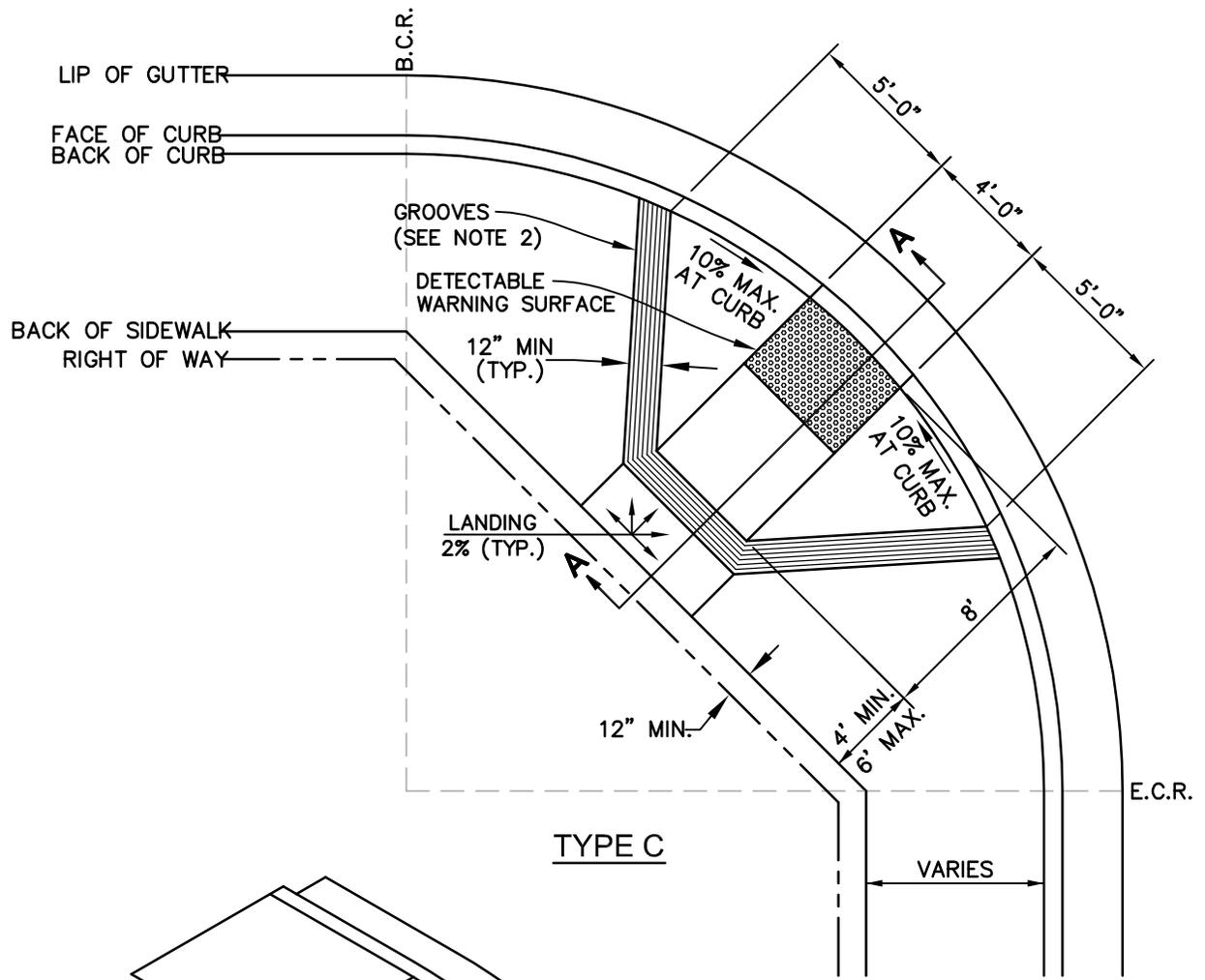
**PEDESTRIAN RAMP
TYPE B**

STD. NO.
209

SCALE: NONE DRAWN: CFB CHK: MGK APPVD: *Thomas M. Mannett*

DATE: OCT 2009

Images: Willits Logo.ppt; Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits201-210.dwg Layout Name: 209 (6) Plot Date: Sep 29, 2009 at 10:28



- NOTES:**
1. RAMP SHALL BE CONSTRUCTED WITH NO LIP AT GUTTER FLOWLINE.
 2. GROOVING DETAIL PER SHEET 2.
 3. TYPICAL CROSS-SECTION A-A PER SHEET 2.

SHEET 6 of 12



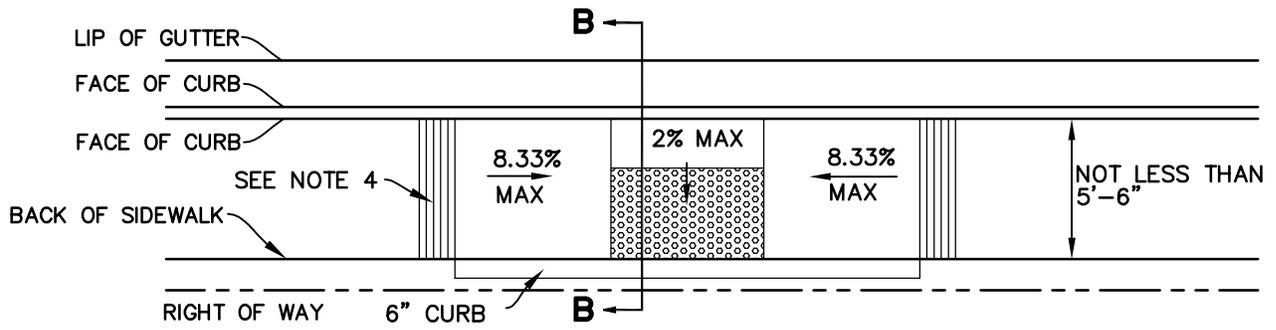
PEDESTRIAN RAMP TYPE C

STD. NO.
209

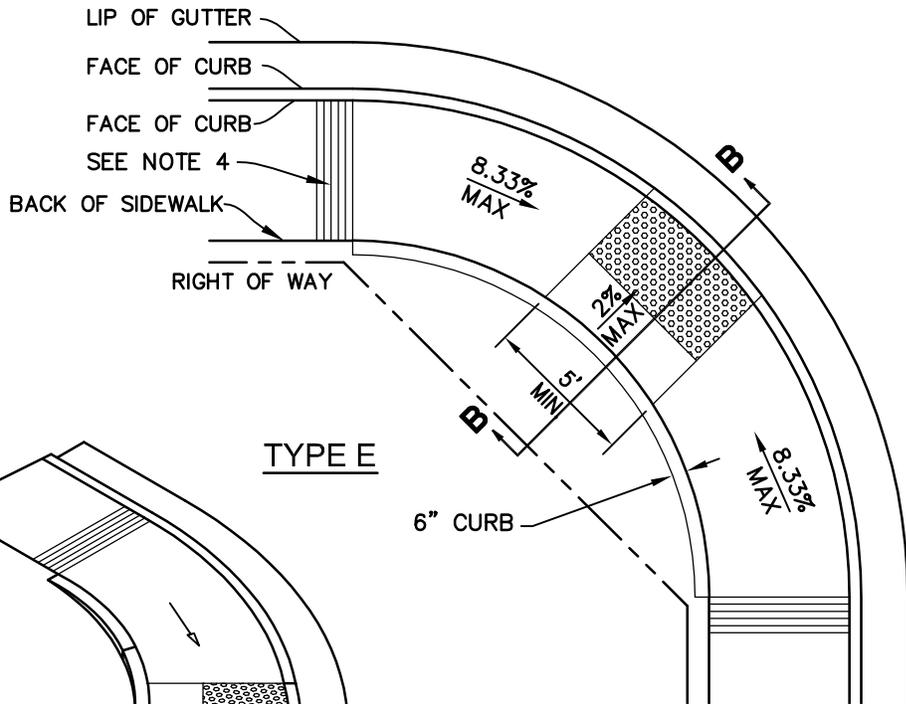
SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mennett*

DATE: OCT 2009

Images: Willits Logo.ppt; Xrefs: Path: \\erosvr1.corp.w-and-k.com\PROJECTS\01064-09-001\PROJECTS\01064-09-001\Willits City Standards\CAD\01064-09-001.dwg; Willits201-210.dwg; Layout Name: 209 (7); Plot Date: Sep 29, 2009 at 10:28



TYPE D



TYPE E

TYPE C

NOTES:

1. RAMP SHALL BE CONSTRUCTED WITH NO LIP AT GUTTER FLOWLINE.
2. TYPE D AND E RAMPS SHALL BE LOCATED AT THE CENTER OF THE CURB RETURN.
3. CONCRETE SHALL BE CLASS "A" WITH NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD. SIDEWALK AND RAMP THICKNESS SHALL BE 4".
4. GROOVING DETAIL PER SHEET 2 of 12.
5. DESIGN SHALL CONFORM TO THESE REQUIREMENTS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.

SHEET 7 of 12



**PEDESTRIAN RAMP
TYPE D & E**

STD. NO.
209

SCALE: NONE

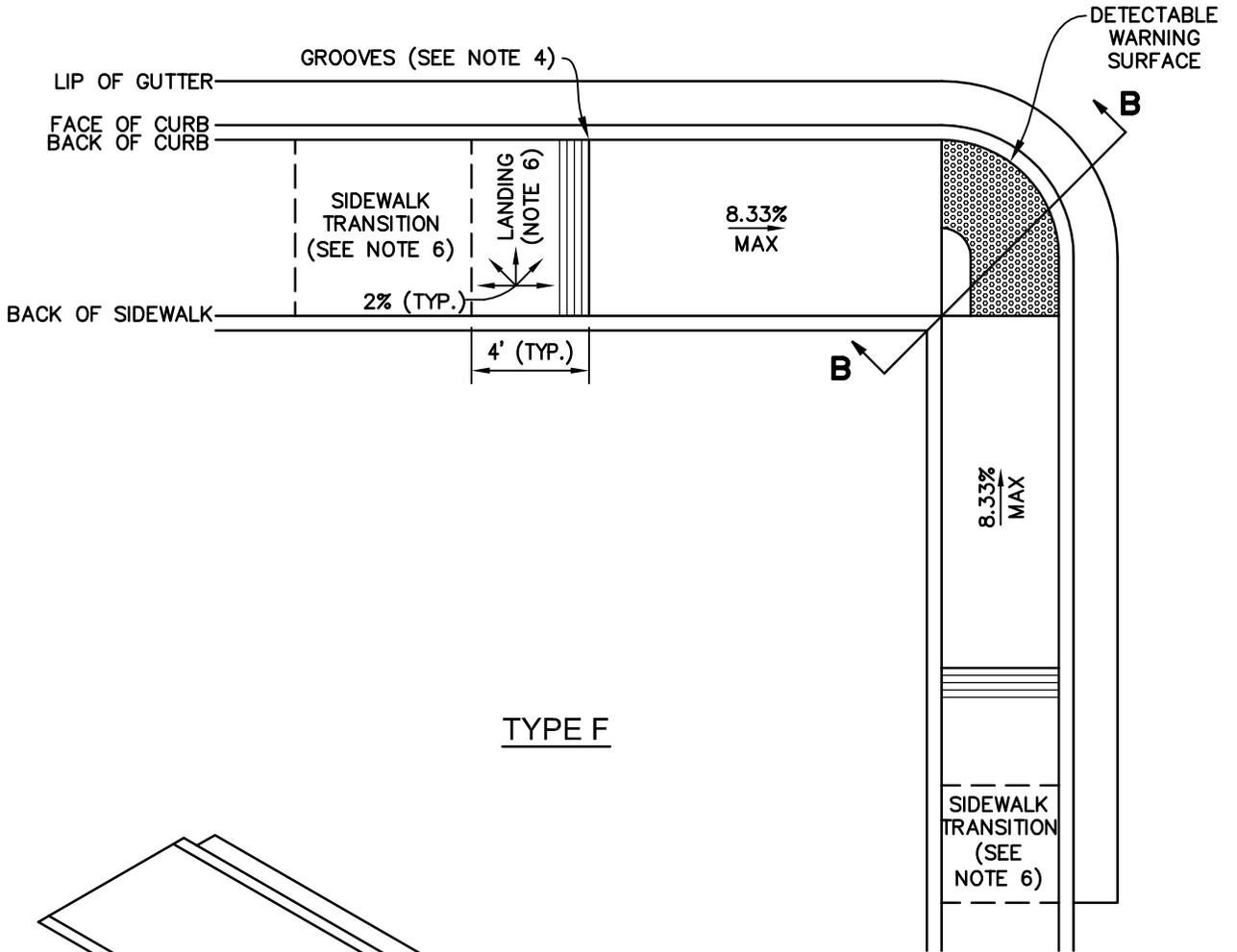
DRAWN: CFB

CHK: MGK

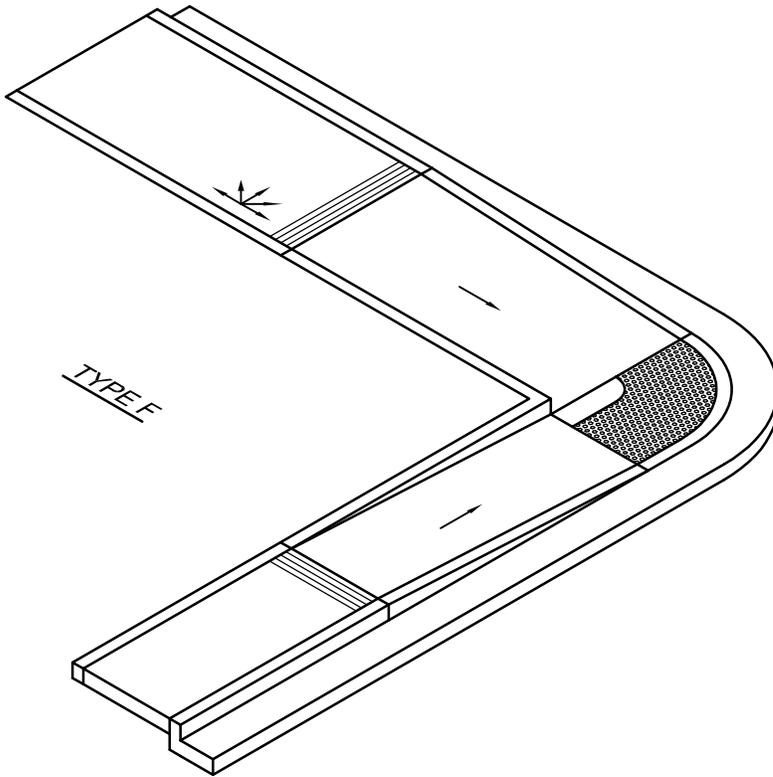
APPVD: *Thomas M. Mannett*

DATE: OCT 2009

Images: Willits Logo.jpg Xrefs:
 Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits201-210.dwg Layout Name: 209 (6) Plot Date: Sep 29, 2009 at 10:28



TYPE F



TYPE F

SHEET 8 of 12



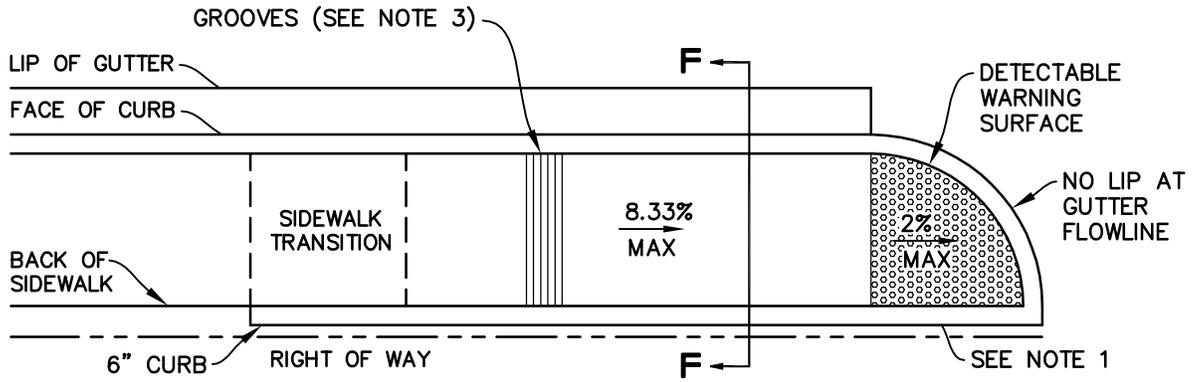
**PEDESTRIAN RAMP
 TYPE F**

STD. NO.
209

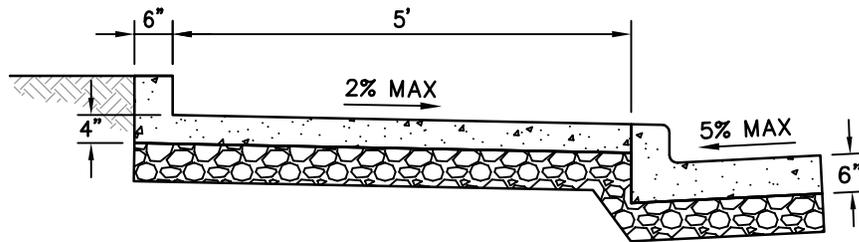
SCALE: NONE DRAWN: CFB CHK: MGK APPVD: *Thomas M. Mannett*

DATE: OCT 2009

Images: Willits Logo.jpg Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits201-210.dwg Layout Name: 209 (9) Plot Date: Sep 29, 2009 at 10:28



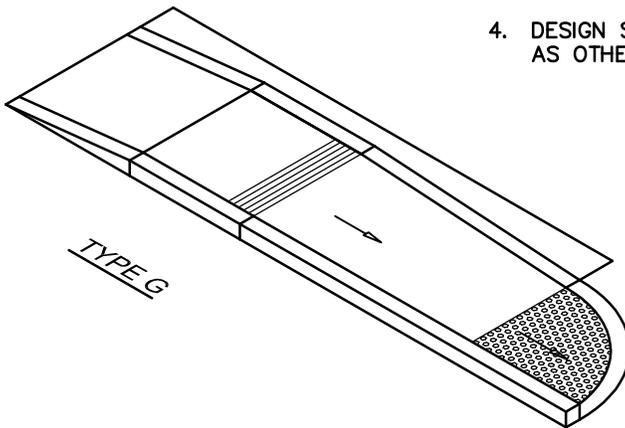
TYPE G



SECTION F-F

NOTES:

1. RAMP SHALL BE CONSTRUCTED WITH NO LIP AT GUTTER FLOWLINE.
2. CONCRETE SHALL BE CLASS "A" WITH NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD.
3. GROOVING DETAIL PER SHEET 2.
4. DESIGN SHALL CONFORM TO THESE REQUIREMENTS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.



SHEET 9 of 12

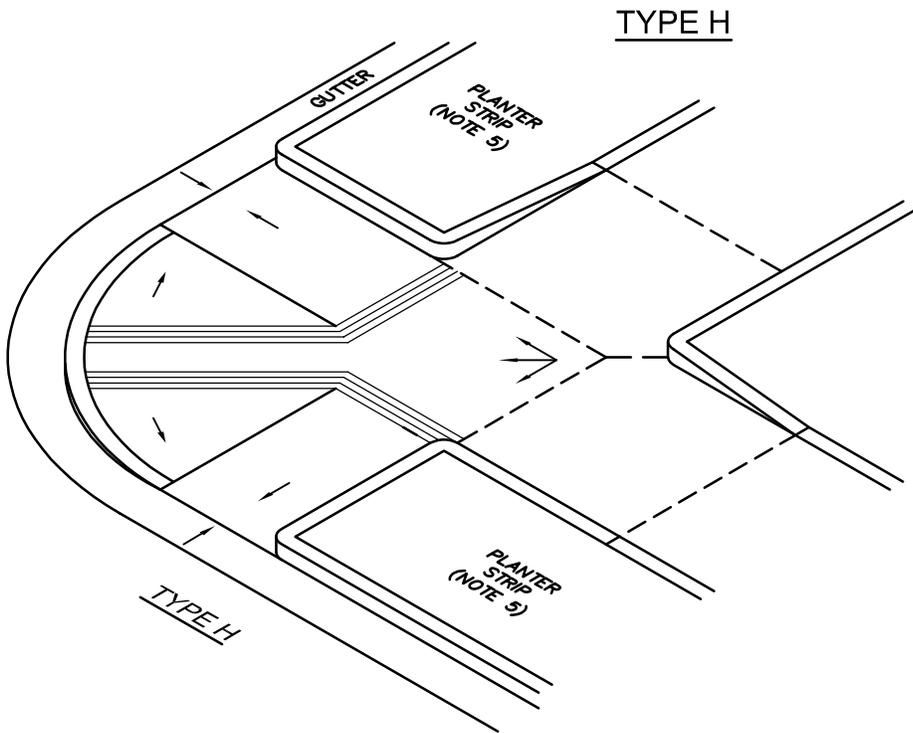
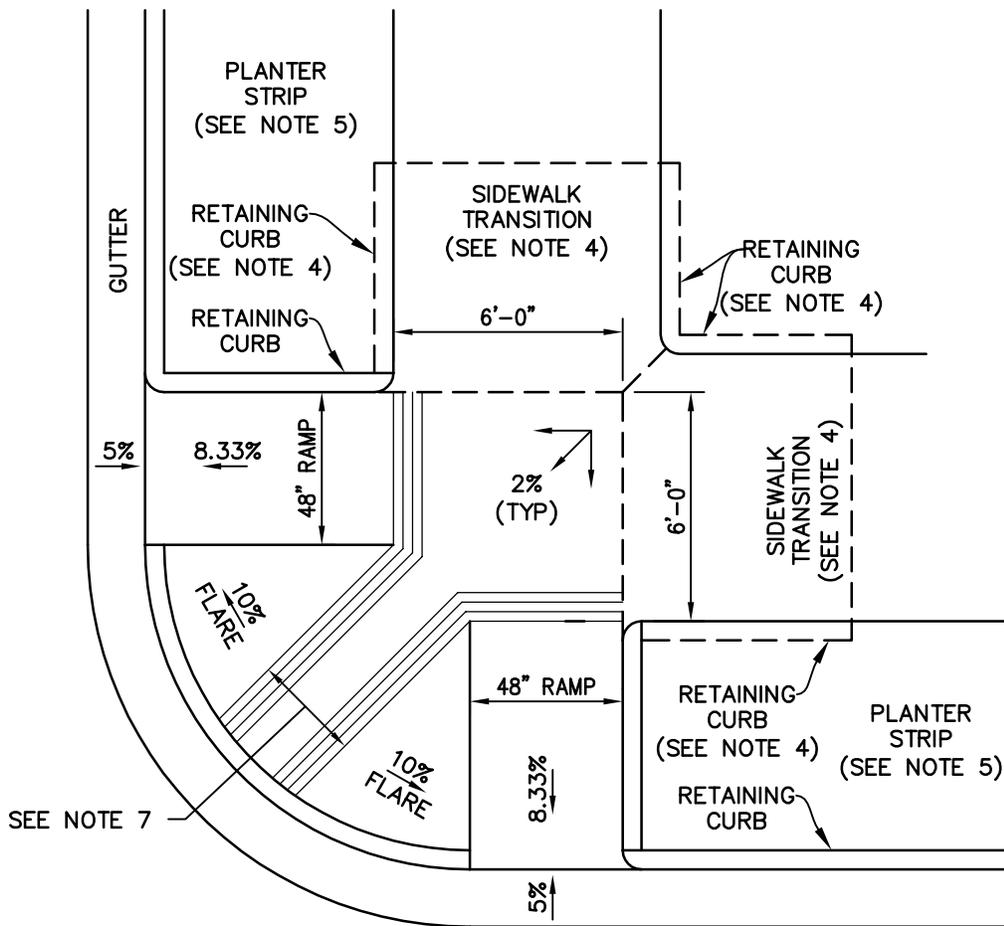


**PEDESTRIAN RAMP
TYPE G**

STD. NO.
209

SCALE: NONE DRAWN: CFB CHK: MGK APPVD: *Thomas M. Mannett*

DATE: OCT 2009



NOTES:

1. ALL SLOPES SHOWN ARE MAXIMUMS.
2. ALL DIMENSIONS SHOWN ARE MAXIMUMS.
3. ALL RAMPS MUST BE LOCATED INSIDE CROSSWALKS OR IN FRONT OF STOP BARS.
4. CONSTRUCTED IF REQUIRED BY EXISTING CONDITIONS.
5. CONTINUE TO MATCH SIDEWALK WITH AND SCORE PATTERN (MIN. 48")
6. MATURE PLANT HEIGHT SHALL NOT EXCEED 24" WITHIN CORNER SIGHT TRIANGLES.
7. NO MINIMUM DIMENSION. GROOVE PATTERNS OR FLARES CAN INTERSECT.

SHEET 10 of 12



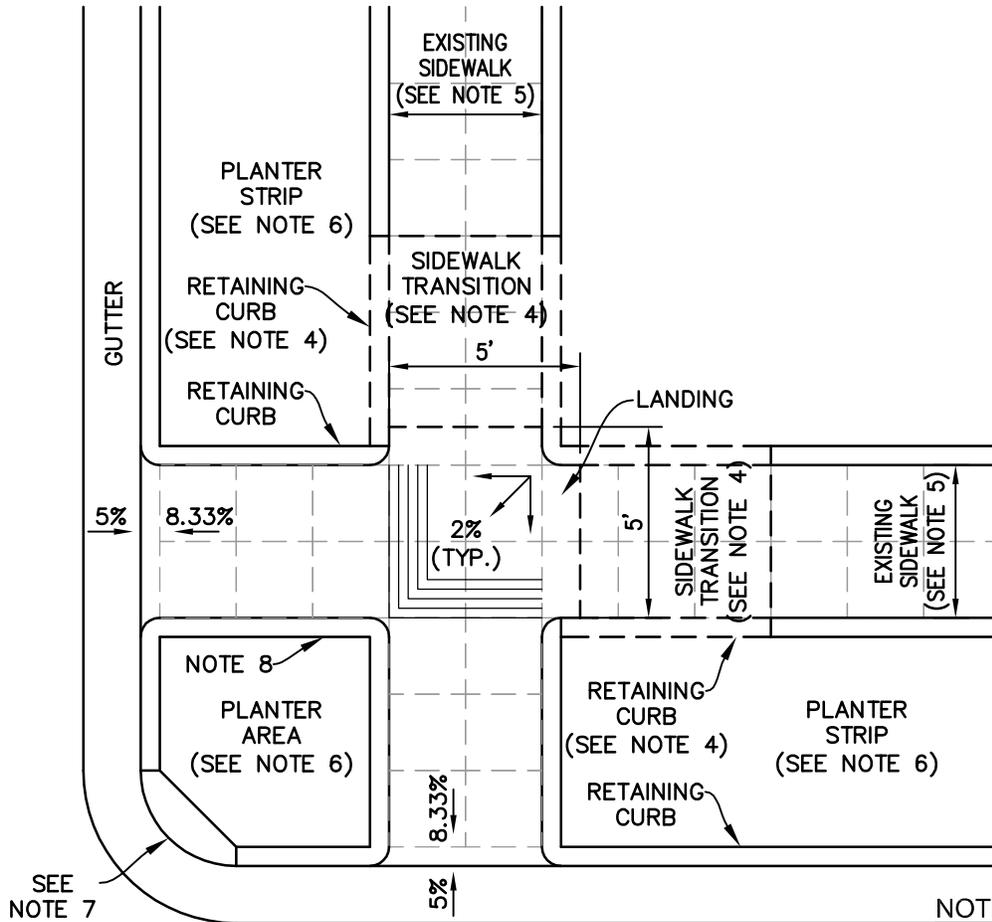
**PEDESTRIAN RAMP
TYPE H**

STD. NO.
209

SCALE: NONE DRAWN: CFB CHK: MGK APPVD: *Thomas M. Mennett*

DATE: OCT 2009

Images: Willits Logo.jpg Xrefs: Path: \\erosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits201-210.dwg Layout Name: 209 (11) Plot Date: Sep 29, 2009 at 10:28



NOTES:

1. ALL SLOPES SHOWN ARE MAXIMUMS.
2. ALL DIMENSIONS SHOWN ARE MAXIMUMS.
3. ALL RAMPS MUST BE LOCATED INSIDE CROSSWALKS OR IN FRONT OF STOP BARS.
4. CONSTRUCTED IF REQUIRED BY EXISTING CONDITIONS.
5. CONTINUE TO MATCH SIDEWALK WITH AND SCORE PATTERN (MIN. 48")
6. MATURE PLANT HEIGHT SHALL NOT EXCEED 24" WITHIN CORNER SIGHT TRIANGLES.
7. STANDARD CURB HEIGHT TO MATCH EXISTING.
8. TOP OF RETAINING CURB TO MATCH ADJACENT RETAINING CURB ELEVATIONS. CAN BE FLUSH WITH LANDING

SHEET 11 of 12



**PEDESTRIAN RAMP
TYPE I**

STD. NO.
209

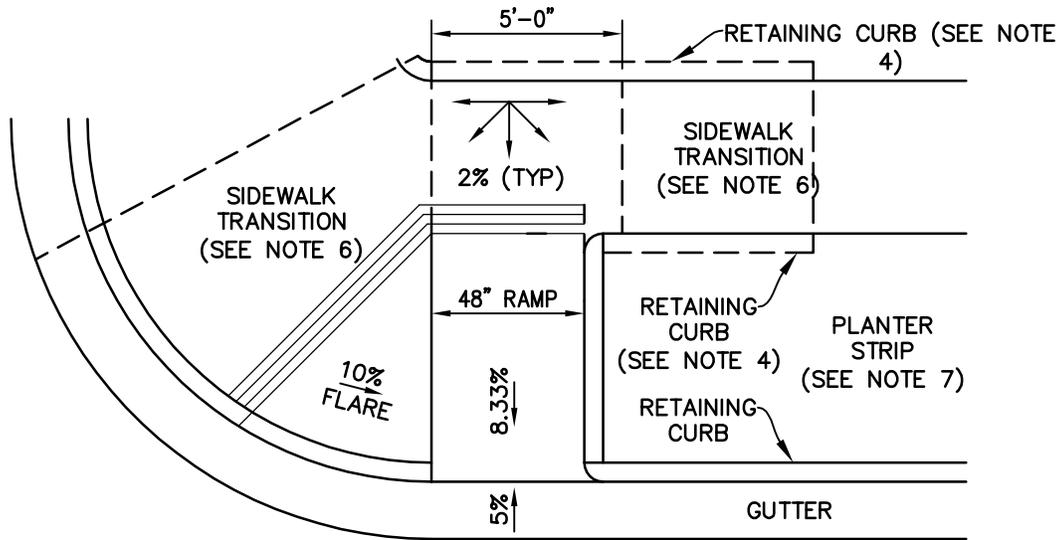
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Mennett*

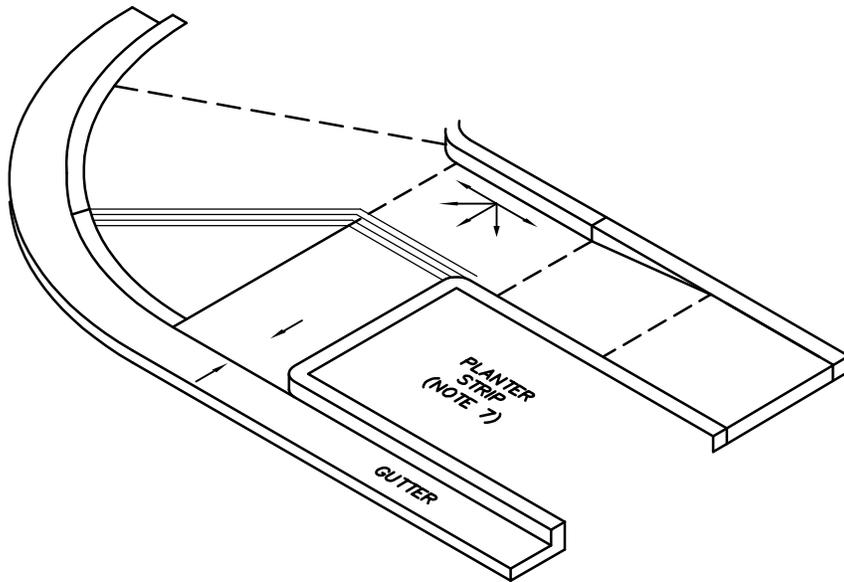
DATE: OCT 2009



TYPE J

NOTES:

1. ALL SLOPES SHOWN ARE MAXIMUMS.
2. ALL DIMENSIONS SHOWN ARE MINIMUMS.
3. ALL RAMPS MUST BE LOCATED INSIDE CROSSWALKS OR IN FRONT OF STOP BARS.
4. ALL JOINTS BETWEEN ELEMENTS, EXCEPT BETWEEN RAMP AND FLARE, ARE RADIAL. RAMP WIDTH REMAINS CONSTANT.
5. SINGLE RAMPS CAN BE CONSTRUCTED ON A TANGENT.
6. CONSTRUCTED IF REQUIRED BY EXISTING CONDITIONS.
7. MATURE PLANT HEIGHT SHALL NOT EXCEED 24" WITHIN CORNER SIGHT TRIANGLES.



SHEET 12 of 12



**PEDESTRIAN RAMP
TYPE J**

STD. NO.
209

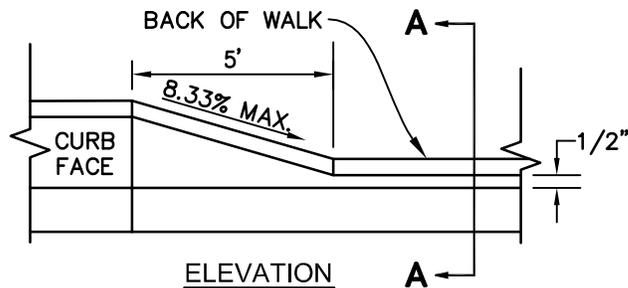
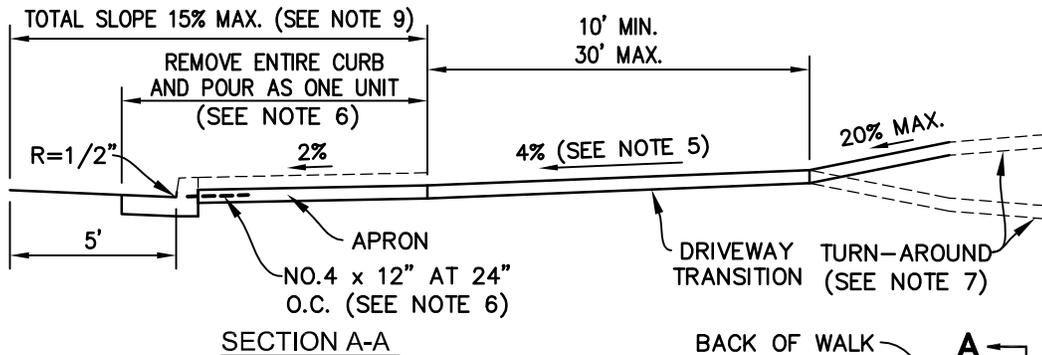
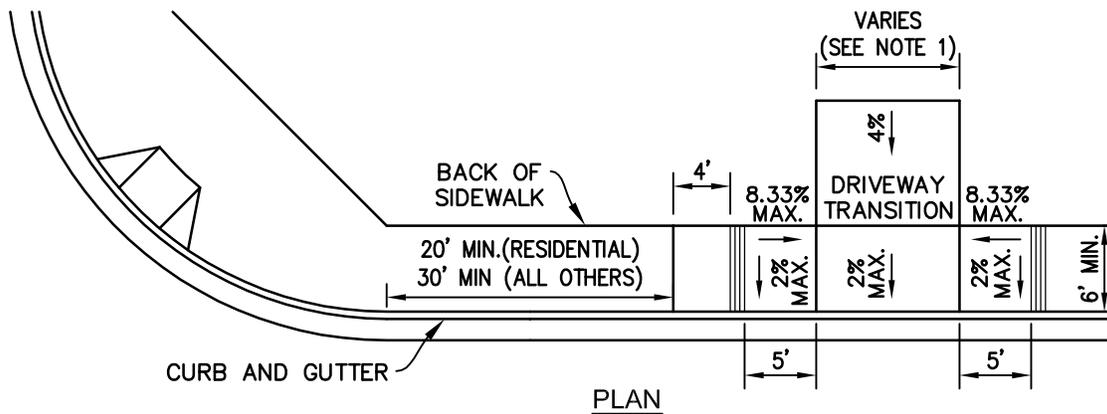
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Mannett*

DATE: OCT 2009

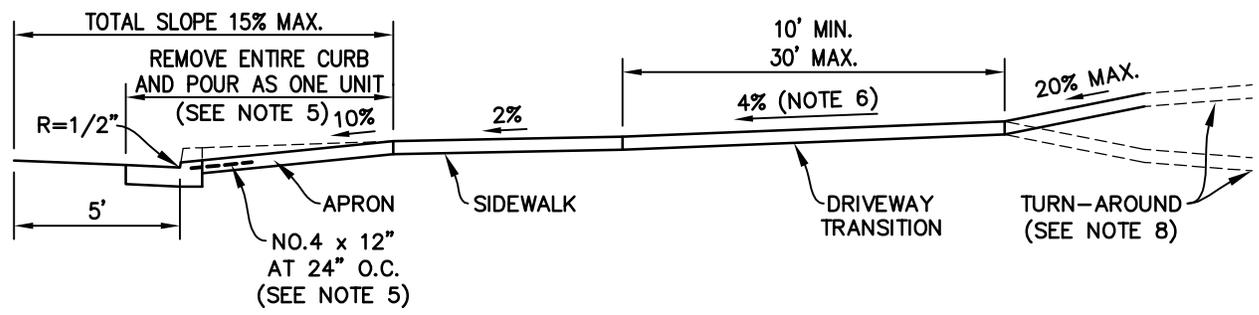
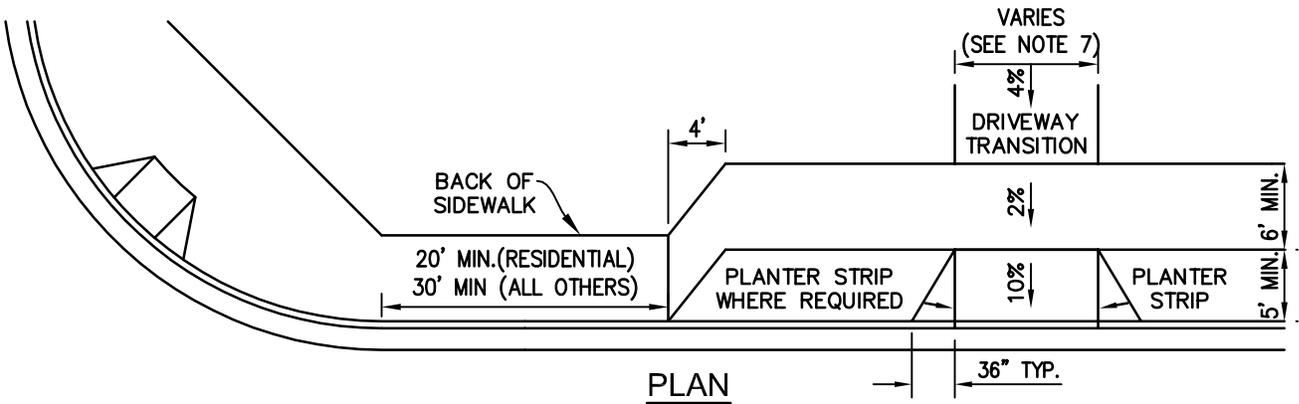


NOTES:

1. DRIVEWAY WIDTH AS PER SHEET 2.
2. WEAKENED PLANE JOINTS (WPJ) REQUIRED ON CENTERLINE FOR DRIVEWAYS 10' TO 19' WIDE. DRIVEWAYS SHALL HAVE TWO WPJ EVENLY SPACED AT 1/3 AND 2/3 POINTS. SEE STD 209 SHEET 2 FOR WPJ DETAIL.
3. ALL CONSTRUCTION AND MATERIALS IN CONFORMANCE WITH CITY STANDARDS.
4. THICKNESS OF APRONS SHALL BE 6". ON COMERCIAL DRIVEWAYS SIDEWALK SHALL BE REMOVED AND REPLACED WITH 6" CONCRETE.
5. ON RECONSTRUCTION PROJECTS THE SLOPE CAN BE 10%.
6. IF CURB AND GUTTER ARE POURED SEPARATE OF APRON THEN DOWELS ARE REQUIRED AT BACK OF CURB. 3" IN CURB AND 9" IN CENTER OF APRON.
7. PROVIDE TURN-AROUND IN ACCORDANCE WITH FIRE DEPARTMENT REQUIREMENTS.
8. BUILDING ADDRESS(ES) SHALL BE CAST IN FACE OF CURB (3" TALL DIGITS) IN ALL NEW AND RECONSTRUCTED RESIDENTIAL AND COMMERCIAL DRIVEWAYS.
9. THE SLOPE DIFFERENCE BETWEEN THE DRIVEWAY RAMPS AND SLOPE OF THE LINE BETWEEN FLOWLINE AND A POINT IN THE THE ROADWAY 5 FT FROM THE GUTTER FLOWLINE SHALL NOT EXCEED 15%.
10. REINFORCING STEEL REQUIRED IN CONCRETE: #4 @ 12" O.C. OR #5 @ 16" O.C. PLACE THROUGHOUT COMMERCIAL AND INDUSTRIAL DRIVEWAYS WITHIN THE RIGHT-OF-WAY.
11. WIDEN OR MEANDER SIDEWALK AT OBSTRUCTIONS (INCLUDING DRIVEWAYS) TO MAINTAIN 6' MIN. CLEARANCE.

SHEET 1 OF 2

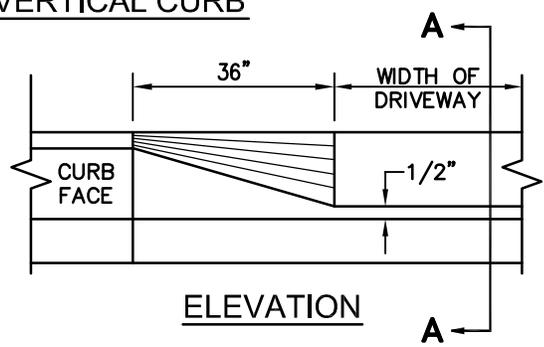
	DRIVEWAY DETAILS				STD. NO. 210
	SCALE: NONE	DRAWN: CFB	CHK: MGK	APPVD: <i>Thomas M. Mennett</i>	DATE: OCT 2009



SECTION A-A WITH VERTICAL CURB

NOTES:

1. WEAKENED PLANE JOINTS (WPJ) REQUIRED ON CENTERLINE FOR ALL DRIVEWAYS. DRIVEWAYS SHALL HAVE TWO WPJ EVENLY SPACED AT 1/3 AND 2/3 POINTS. SEE STD 209 SHEET 2 FOR WPJ DETAIL.
2. ALL CONSTRUCTION AND MATERIALS IN CONFORMANCE WITH CITY STANDARDS.
3. THICKNESS OF APRONS SHALL BE 6". ON COMMERCIAL DRIVEWAYS SIDEWALK SHALL BE REMOVED AND REPLACED WITH 6" CONCRETE.
4. WIDEN OR MEANDER SIDEWALK AT OBSTRUCTIONS (INCLUDING DRIVEWAYS) TO MAINTAIN 6' MIN. CLEARANCE.
5. IF CURB AND GUTTER ARE POURED SEPARATE OF APRON THEN DOWELS ARE REQUIRED AT BACK OF CURB. 3" IN CURB AND 9" IN CENTER OF APRON.
6. ON RECONSTRUCTION PROJECTS THE SLOPE CAN BE 10%.
7. DRIVEWAY WIDTHS SHALL BE AS FOLLOWS:



DRIVEWAY TYPE	MAX. WIDTH
RESIDENTIAL SINGLE	10'
RESIDENTIAL DOUBLE	19'
COMMERCIAL SINGLE	12'
COMMERCIAL DOUBLE	22'
COMMERCIAL DOUBLE WITH 5' MEDIAN	27'

9. PROVIDE TURN-AROUND IN ACCORDANCE WITH FIRE DEPARTMENT REQUIREMENTS.



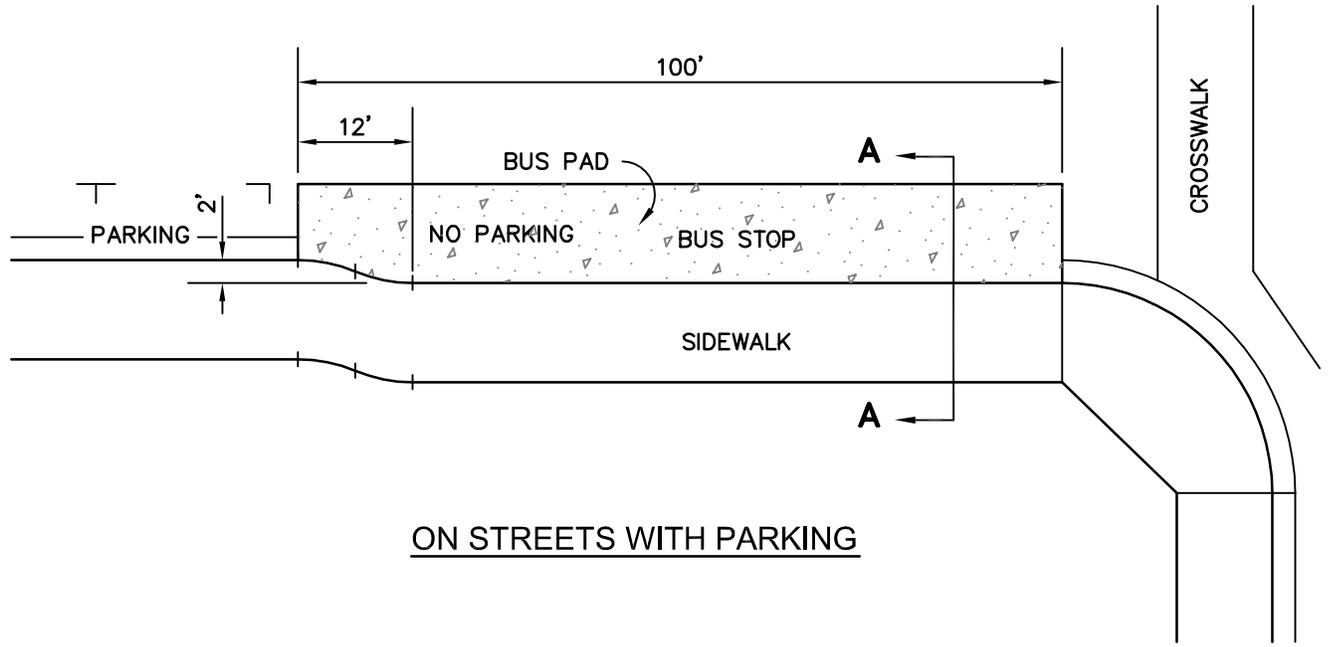
DRIVEWAY DETAILS

STD. NO.
210

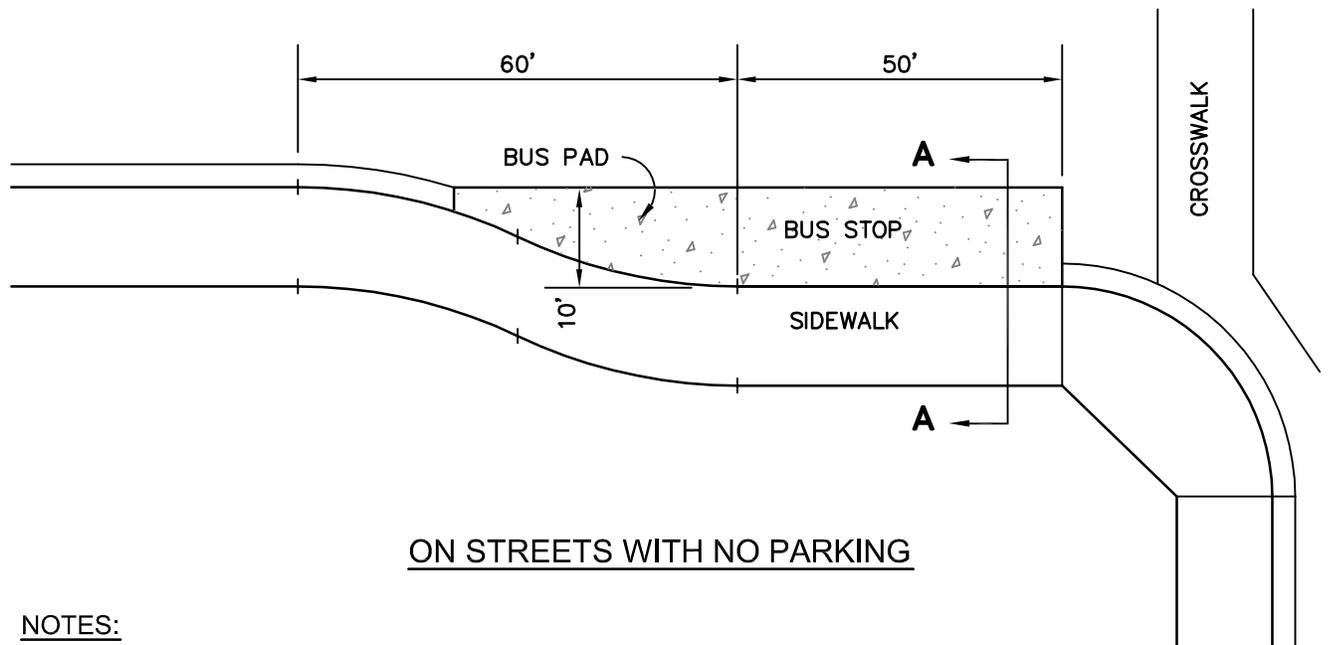
SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mennett*

DATE: OCT 2009

Images: Willits Logo.jpg Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits211-220.dwg Layout Name: 211 (1) Plot Date: Sep 29, 2009 at 10:30



ON STREETS WITH PARKING



ON STREETS WITH NO PARKING

NOTES:

1. SEE SECTION A-A, SHEET 4.
2. BUS BENCHES AND SHELTER SHALL BE LOCATED BEHIND THE SIDEWALK OR IN SUCH A MANNER THAT A MINIMUM 5' CLEAR SIDEWALK IS PROVIDED.
3. DESIGN SHALL CONFORM TO THESE REQUIREMENTS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.

SHEET 1 OF 4



BUS STOP AT INTERSECTION

STD. NO.
211

SCALE: NONE

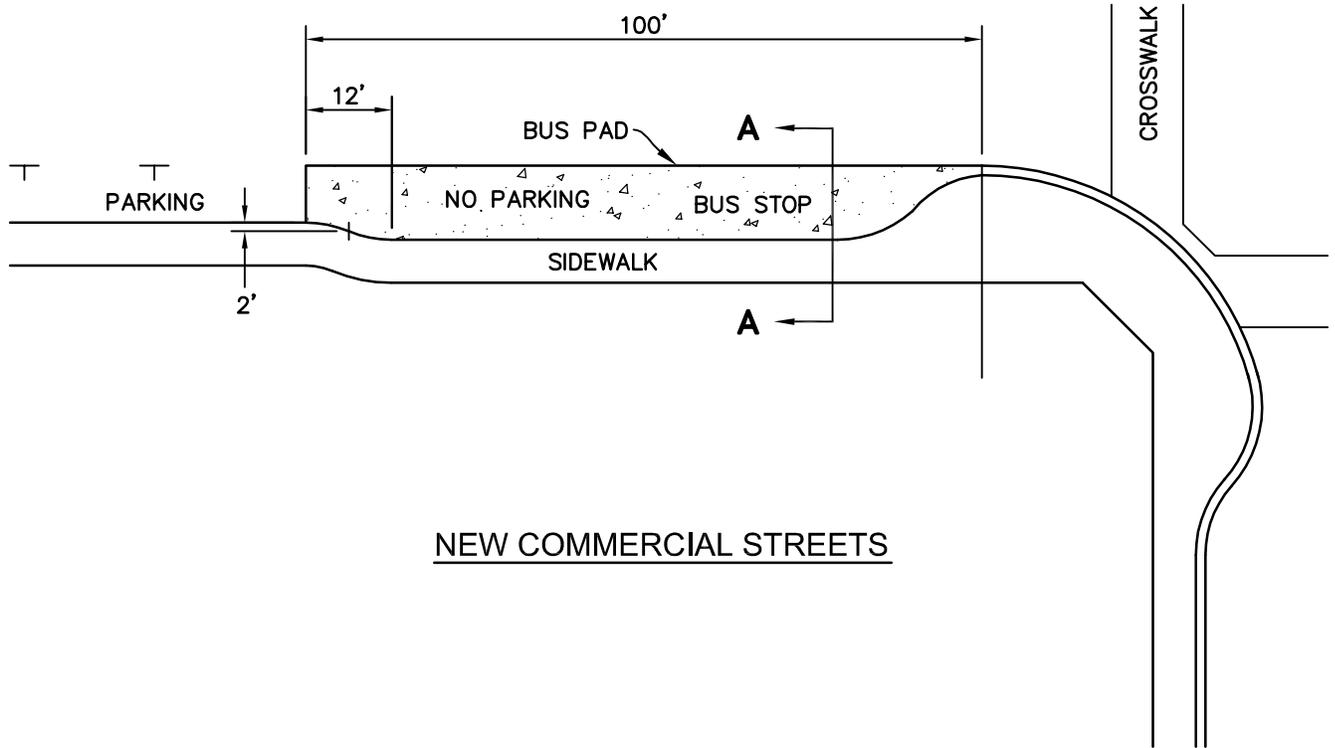
DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Mannett*

DATE: OCT 2009

Images: Willits Logo.jpg Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits211-220.dwg Layout Name: 211 (2) Plot Date: Sep 29, 2009 at 10:30



NEW COMMERCIAL STREETS

NOTES:

1. SEE SECTION A-A, SHEET 4.
2. BUS BENCHES AND SHELTER SHALL BE LOCATED BEHIND THE SIDEWALK OR IN SUCH A MANNER THAT A MINIMUM 5' CLEAR SIDEWALK IS PROVIDED.
3. DESIGN SHALL CONFORM TO THESE REQUIREMENTS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.

SHEET 2 OF 4



**BUS STOP
AT INTERSECTION**

STD. NO.
211

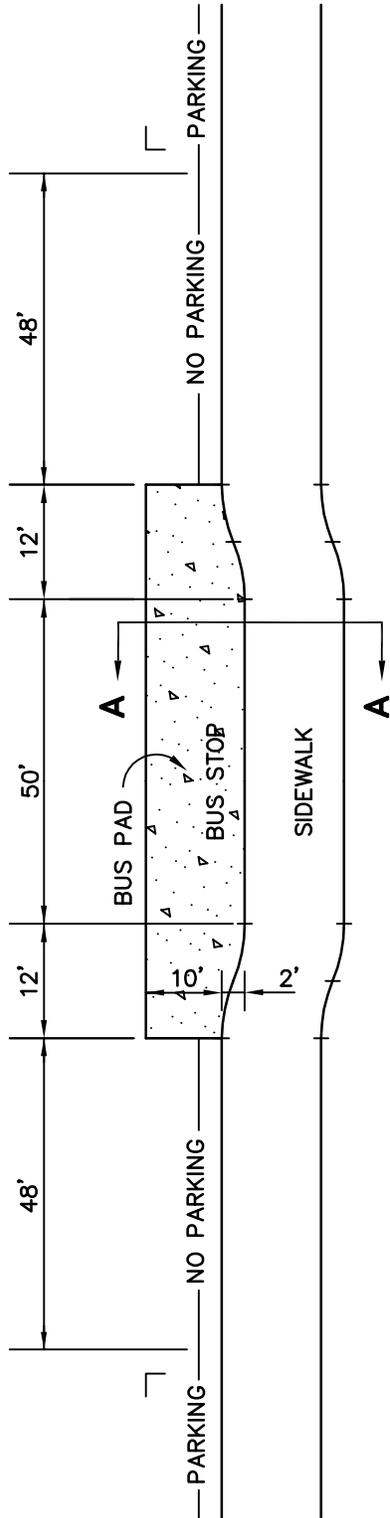
SCALE: NONE

DRAWN: CFB

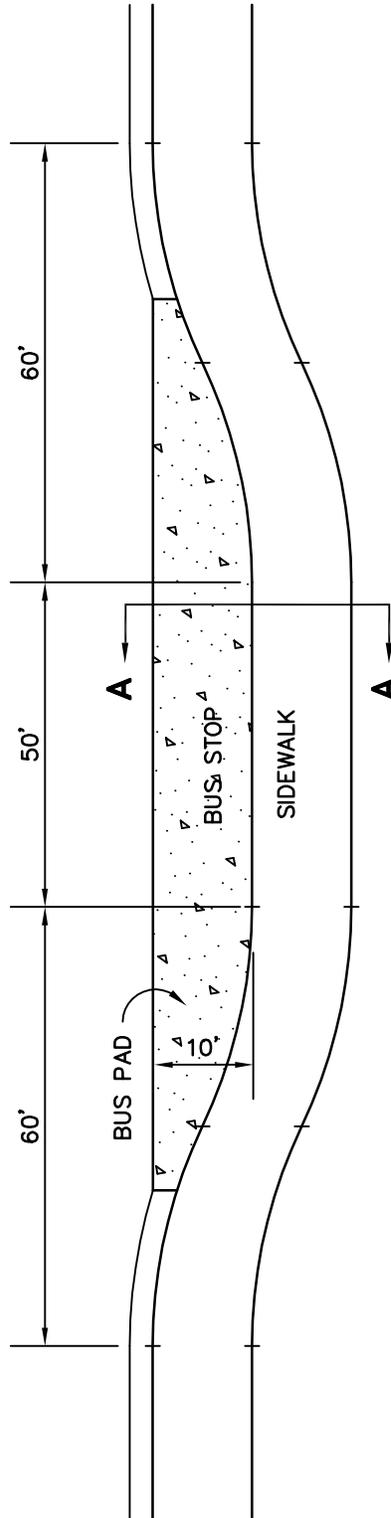
CHK: MGK

APPVD: *Thomas M. Mannett*

DATE: OCT 2009



ON STREETS WITH PARKING



ON STREETS WITH NO PARKING

NOTES:

1. SEE SECTION A-A, SHEET 3.
2. BUS BENCHES AND SHELTER SHALL BE LOCATED BEHIND THE SIDEWALK OR IN SUCH A MANNER THAT A MINIMUM 5' CLEAR SIDEWALK IS PROVIDED.
3. DESIGN SHALL CONFORM TO THESE REQUIREMENTS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.

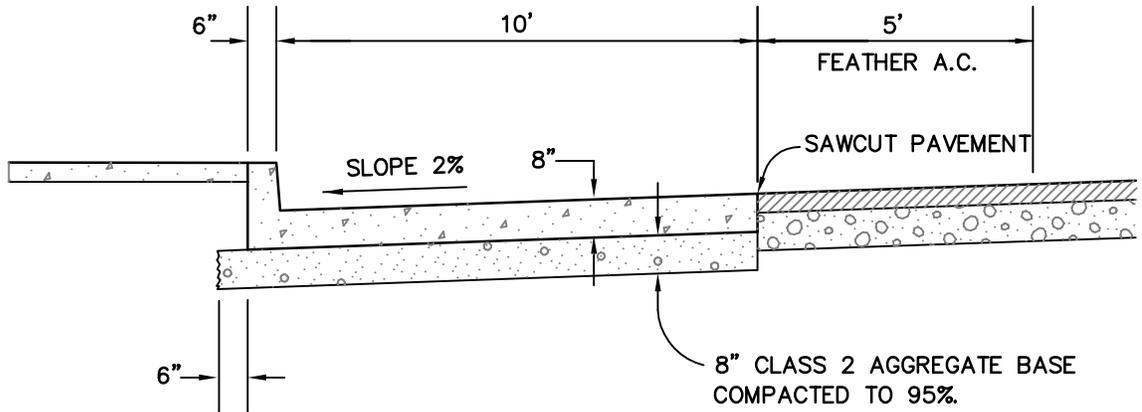


MID BLOCK BUS STOP

STD. NO.
211

SCALE: NONE DRAWN: CFB CHK: MGK APPVD: *Thomas M. Mannett*

DATE: OCT 2009



SECTION A-A

NOTES:

1. EXPANSION JOINTS & SCORE MARKS TO MATCH EXISTING CURB, GUTTER, & SIDEWALK.
2. USE CLASS "A" P.C.C.
3. CONSTRUCT SUBDRAINS WHEN REQUIRED BY CITY ENGINEER.
4. REINFORCING STEEL REQUIRED IN CONC. #4 @ 12" O.C. EACH WAY, OR #5 @ 16" O.C. EACH WAY.
5. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.

SHEET 4 OF 4



CONCRETE BUS PAD DETAIL

STD. NO.
211

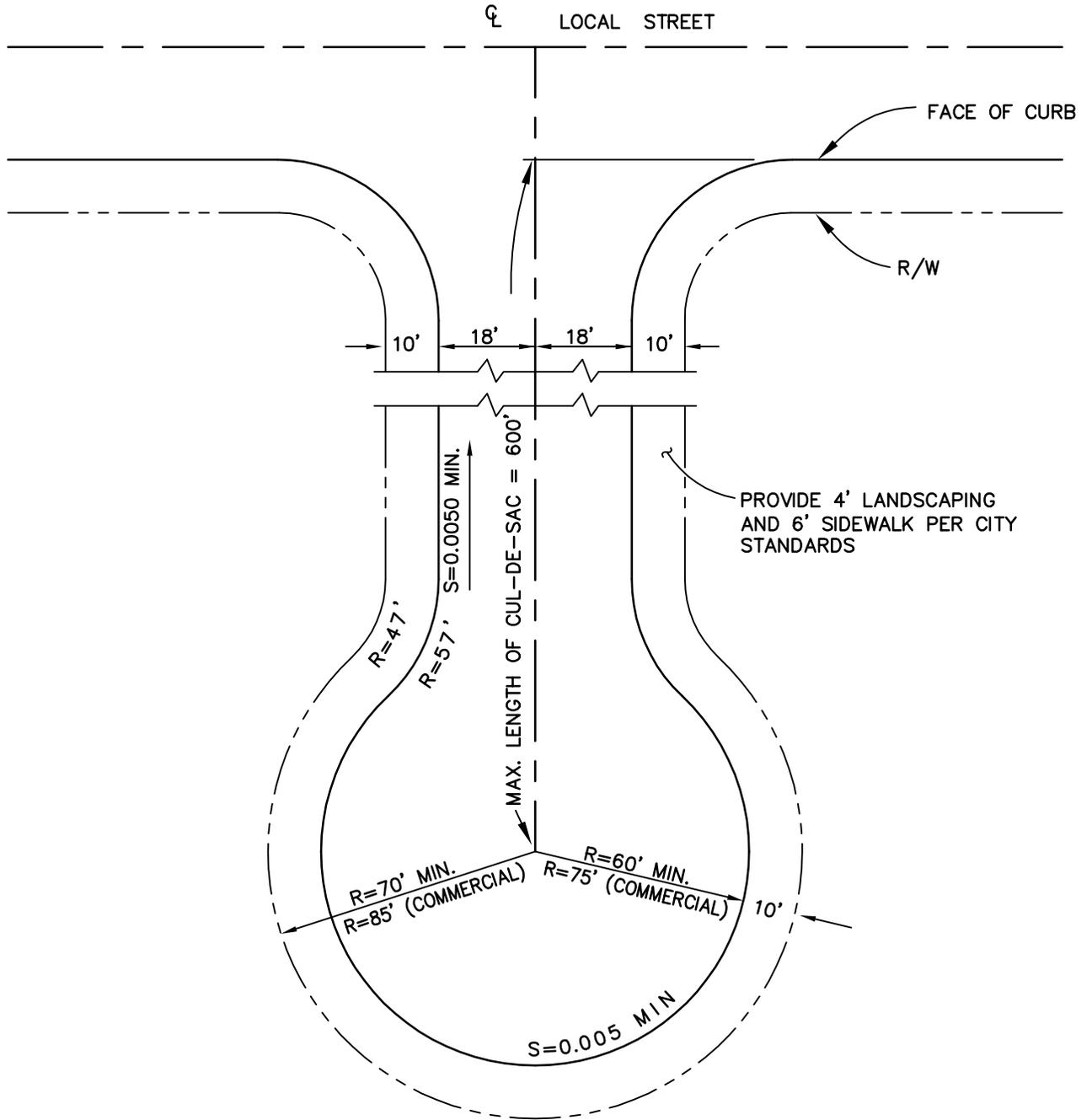
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Mannett*

DATE: OCT 2009



CROSS SLOPE IN BULB AREA SHALL BE MIN 2%.

SHEET 1 OF 2



RESIDENTIAL CUL-DE-SAC

STD. NO.
212

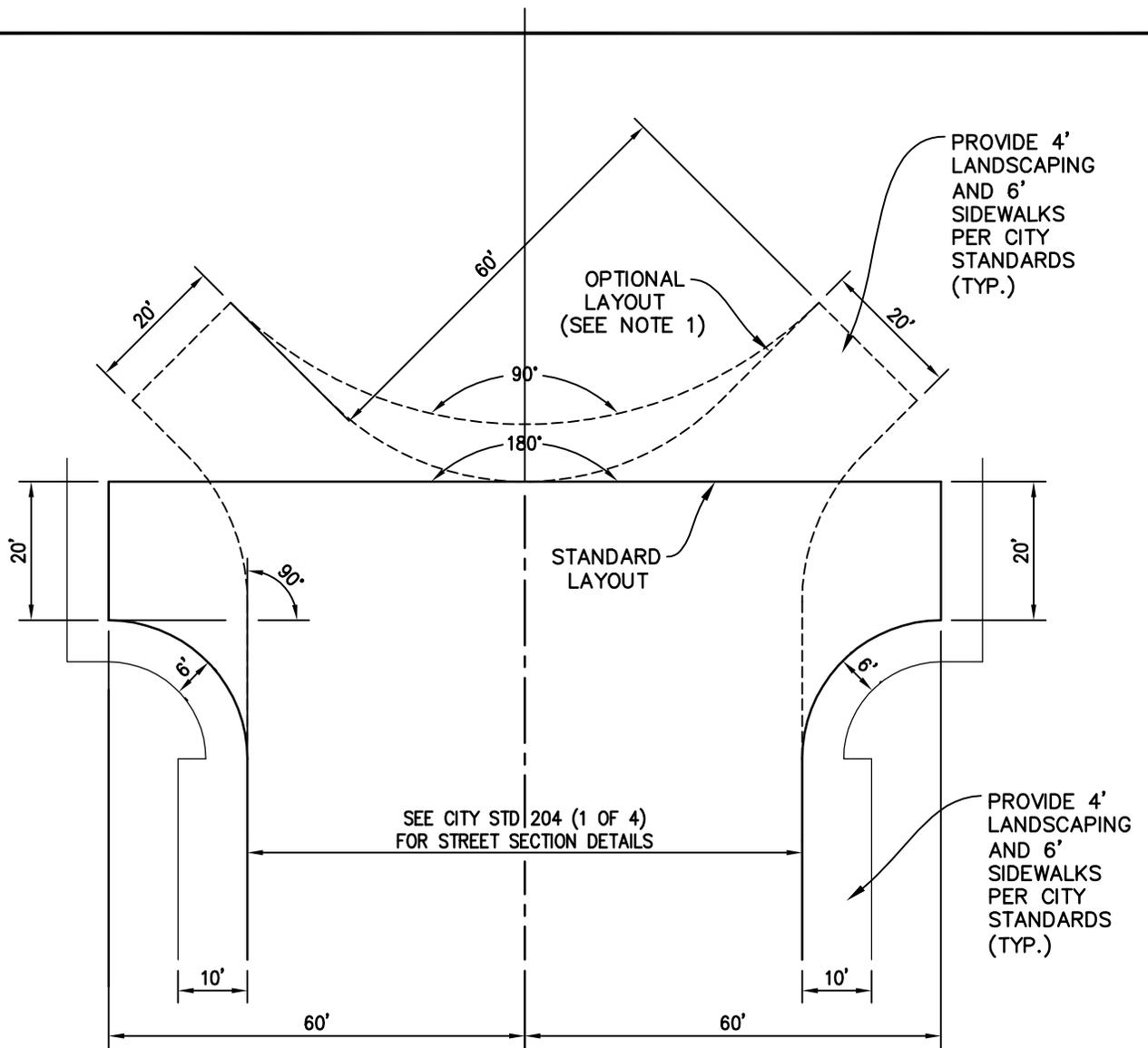
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Marnett*

DATE: OCT 2009



NOTES:

1. FOR RESIDENTIAL AND PRIVATE STREETS. SEE CITY STD. 204 (1 OF 4) FOR STREET SECTION DETAILS.
2. TO BE USED ONLY WHEN SPECIFICALLY AUTHORIZED BY THE CITY ENGINEER AND FIRE PROTECTION DISTRICT.
3. ALL RADII 20' EXCEPT AS NOTED.
4. SINGLE-SIDED TURNAROUNDS OF EQUIVALENT DIMENSIONS MAY BE USED.

SHEET 2 OF 2

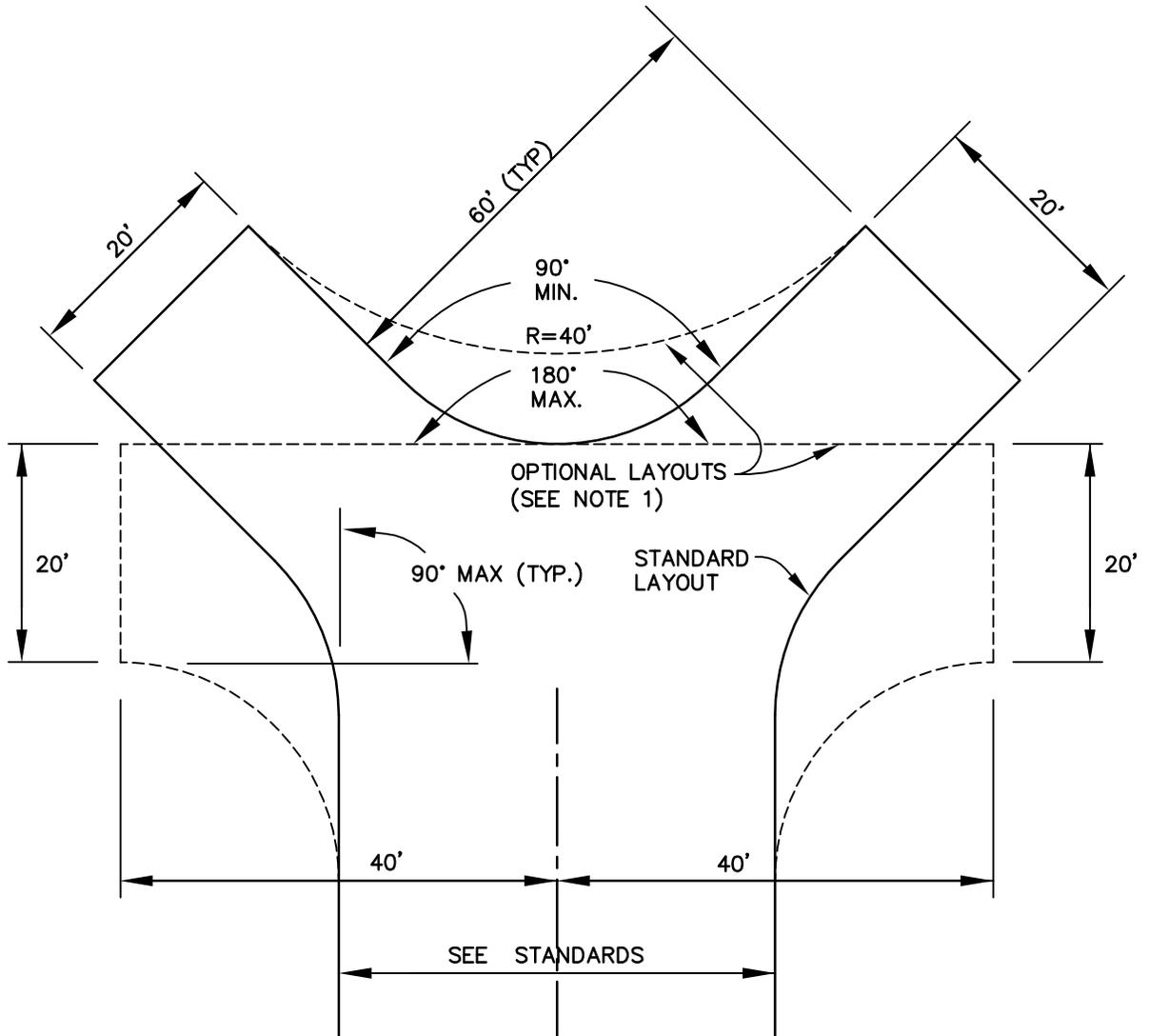


HAMMERHEAD TURN-AROUND

STD. NO.
212

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mannett*

DATE: OCT 2009



NOTES:

1. TO BE USED ONLY WHEN SPECIFICALLY AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS AND FIRE MARSHALL.
2. ALL RADII 20', EXCEPT AS NOTED.
3. SINGLE SIDED TURNAROUNDS OF EQUIVELENT DIMENSIONS MAY BE USED.



**HAMMERHEAD TURN AROUND
RESIDENTIAL PRIVATE STREETS
AND ACCESS WAYS**

STD. NO.
213

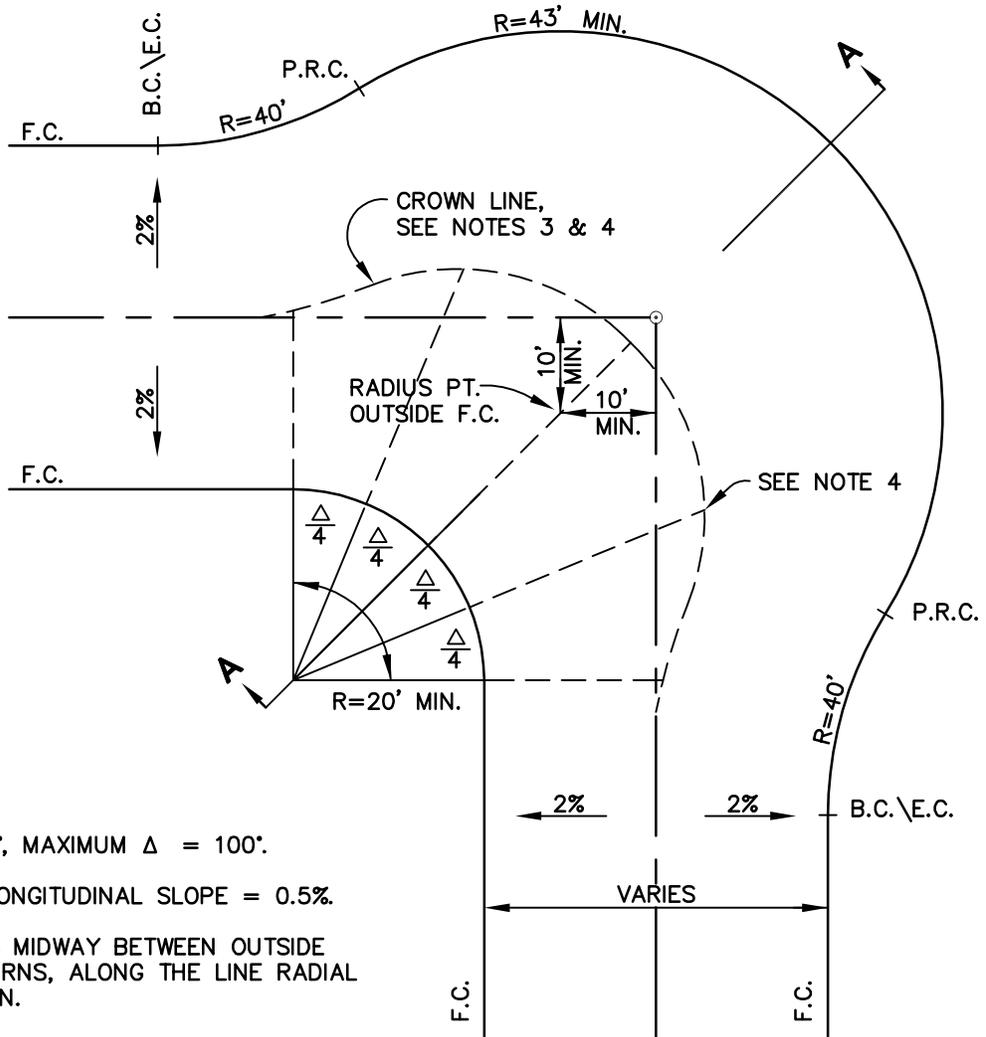
SCALE: NONE

DRAWN: CFB

CHK: MGK

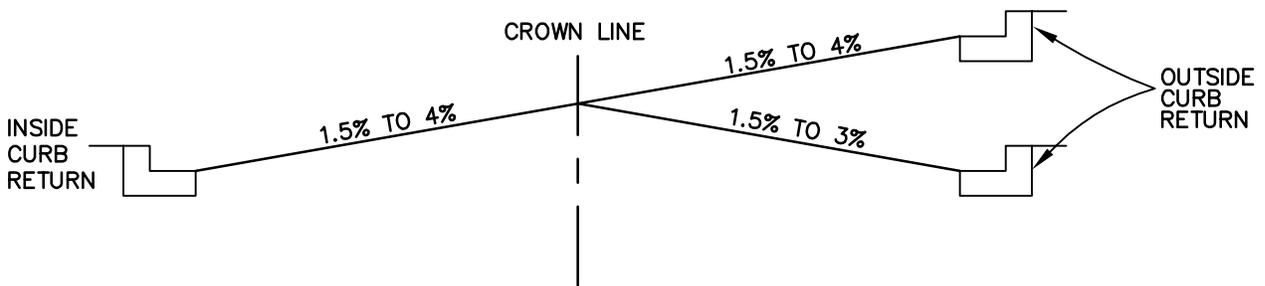
APPVD: *Thomas M. Mannett*

DATE: OCT 2009



NOTES:

1. MINIMUM $\Delta = 60^\circ$, MAXIMUM $\Delta = 100^\circ$.
2. MINIMUM CURB LONGITUDINAL SLOPE = 0.5%.
3. CROWN LINE LIES MIDWAY BETWEEN OUTSIDE AND INSIDE RETURNS, ALONG THE LINE RADIAL TO INSIDE RETURN.
4. CROWN LINE ELEVATION TO BE SHOWN ON THE PLANS AT $\Delta/4$ POINTS.
5. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.



SECTION A-A

MAXIMUM & MINIMUM CROSS SLOPES



**STANDARD STREET KNUCKLE
RESIDENTIAL AND MINOR STREETS**

STD. NO.
214

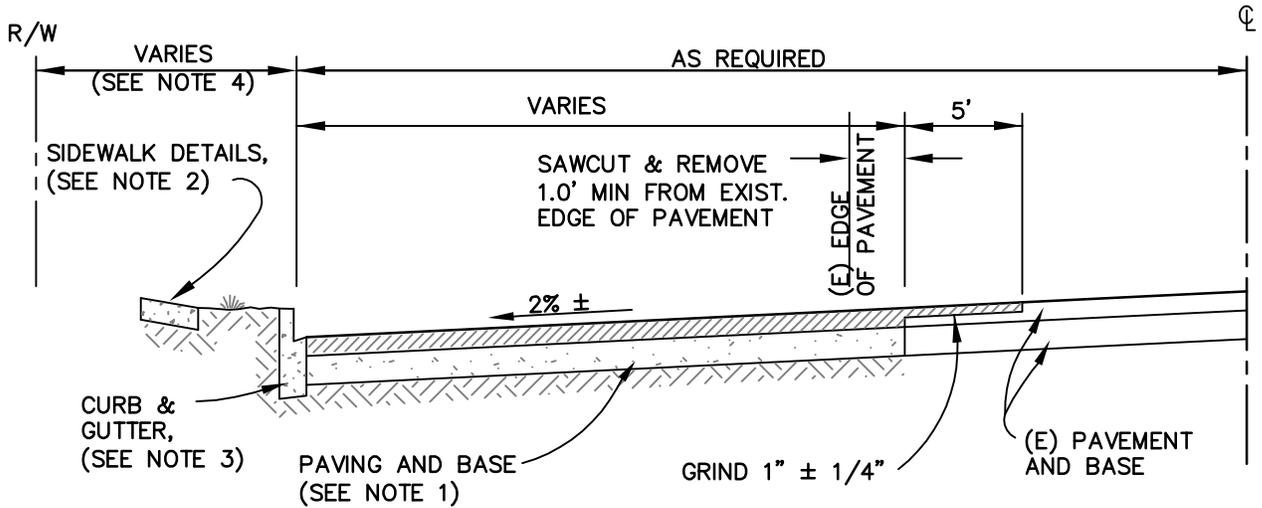
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Mannett*

DATE: OCT 2009



NOTES:

1. PAVING AND BASE THICKNESS TO BE DETERMINED USING CITY PAVEMENT DESIGN STANDARDS. MINIMUM PAVEMENT THICKNESS TO BE 0.25'.
2. SEE STD. 205 FOR SIDEWALK DETAILS.
3. SEE STD. 205 FOR CURB & GUTTER DETAILS.
4. DISTANCE BETWEEN FACE OF CURB AND RIGHT-OF-WAY TO BE PER STDS. 203 AND 204.



STREET WIDENING/PAVEOUT DETAIL

STD. NO.
215

SCALE: NONE

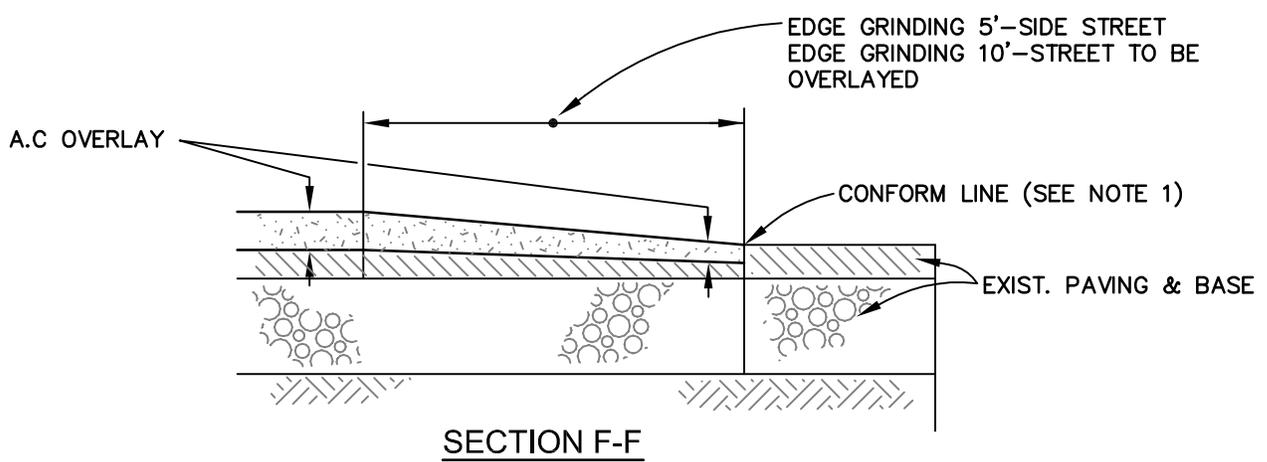
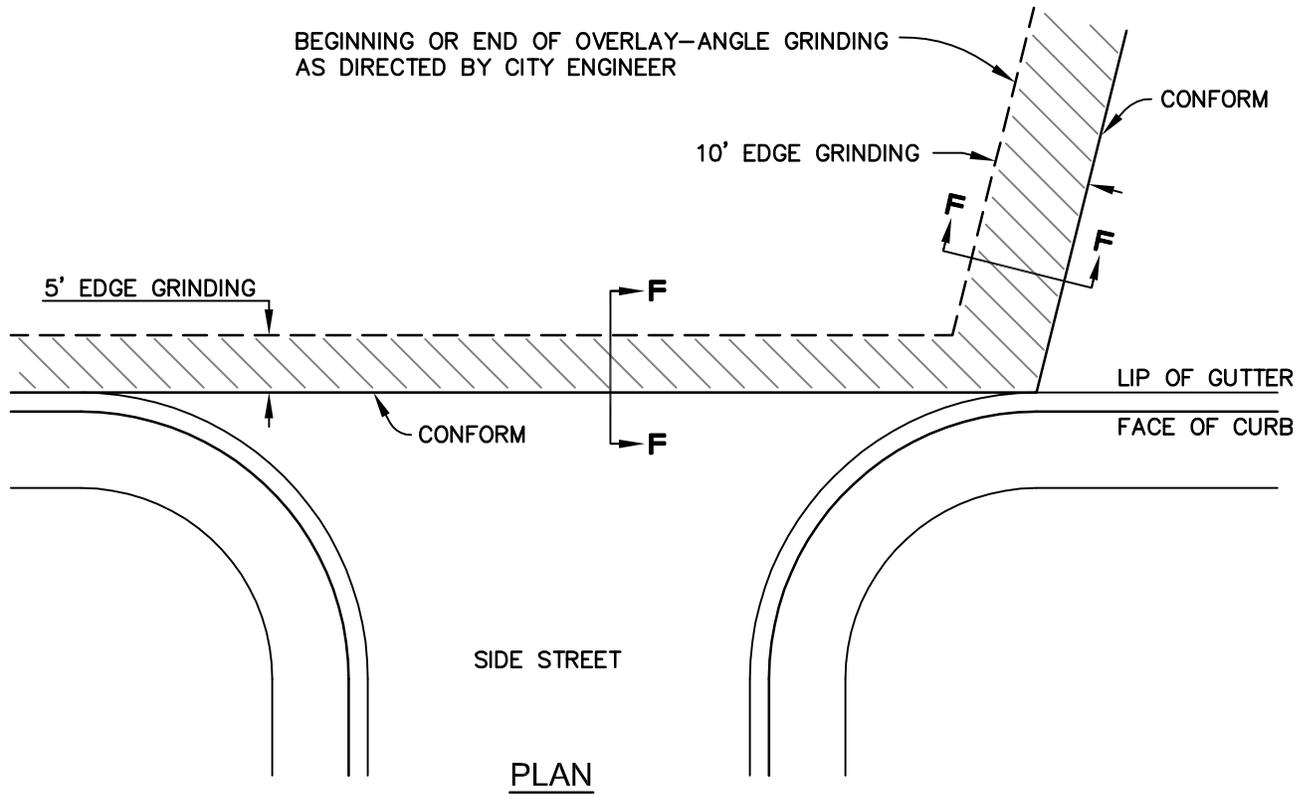
DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Mannett*

DATE: OCT 2009

Images: Willits Logo.jpg Xrefs: Path: \\grosv1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001\dwg\Willits211-220.dwg Layout Name: 216 Plot Date: Sep 29, 2009 at 10:30



NOTES:

1. EDGE GRINDING SHALL BE 1"±1/4".
2. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.



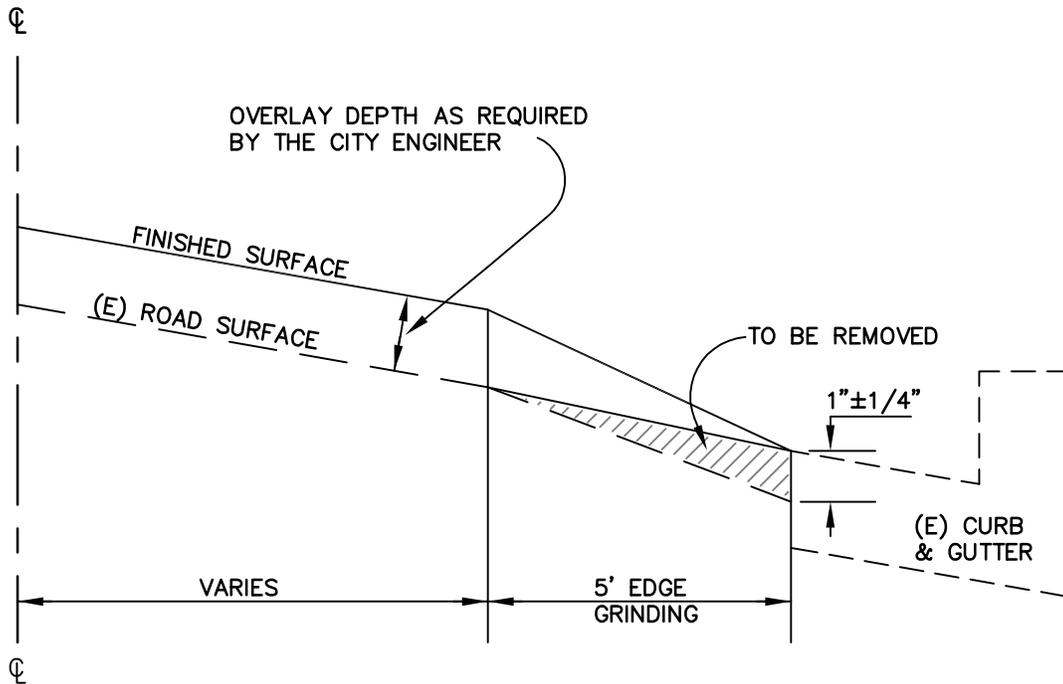
**SIDE STREET AND
END OF OVERLAY CONFORM**

STD. NO.
216

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mannett*

DATE: OCT 2009

Images: Willits Logo.jpg Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits211-220.dwg Layout Name: 217 Plot Date: Sep 29, 2009 at 10:30



NOTES:

- DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.



**EDGE GRINDING AT LIP OF GUTTER
FOR OVERLAY**

STD. NO.
217

SCALE: NONE

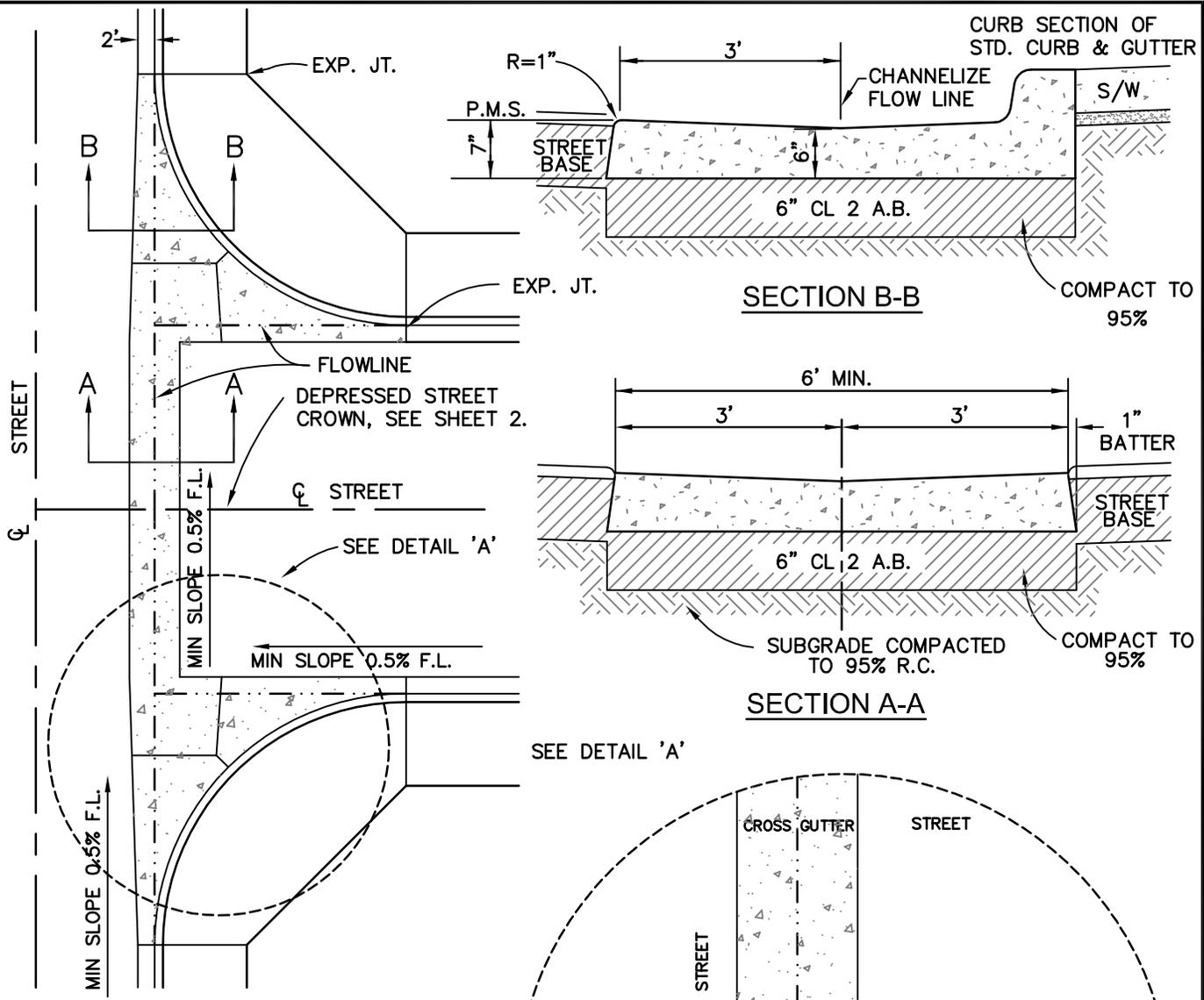
DRAWN: CFB

CHK: MGK

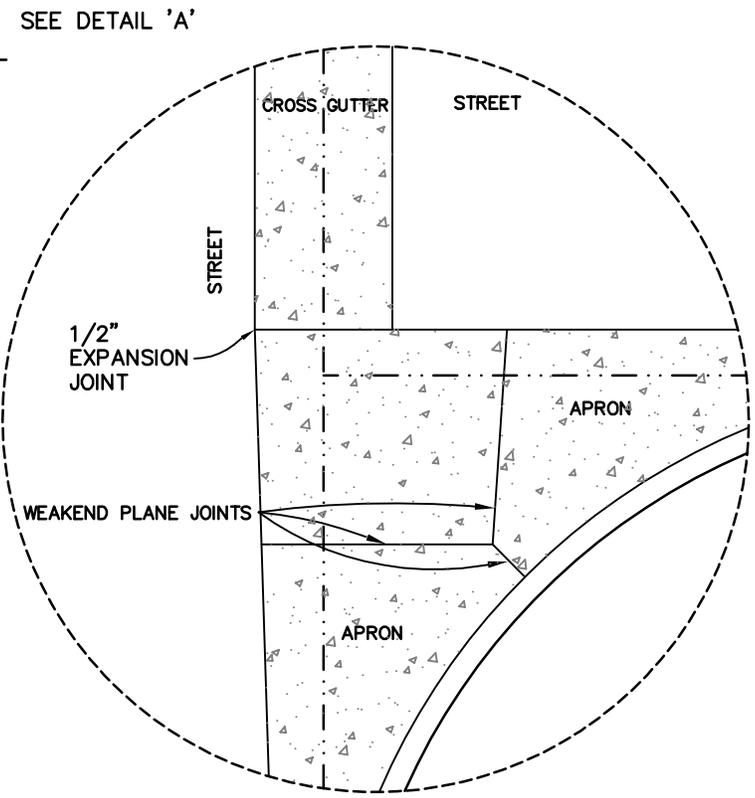
APPVD: *Thomas M. Mannett*

DATE: OCT 2009

Images: Willits Logo.ppt; Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD\01064-09-001\dwg\Willits211-220.dwg Layout Name: 218 (1 of 2) Plot Date: Sep 29, 2009 at 10:30



TYP. CROSS-GUTTER PLAN



DETAIL "A"
TYPICAL BOTH SIDES SHEET 1 OF 2

NOTE:

ALL CONCRETE TO BE CLASS "A"
(6 SACK/CUBIC YARD)

LEGEND:

- EXP. JOINT 1/2" EXPANSION JOINT
- AREA OF APRON & CROSS GUTTER



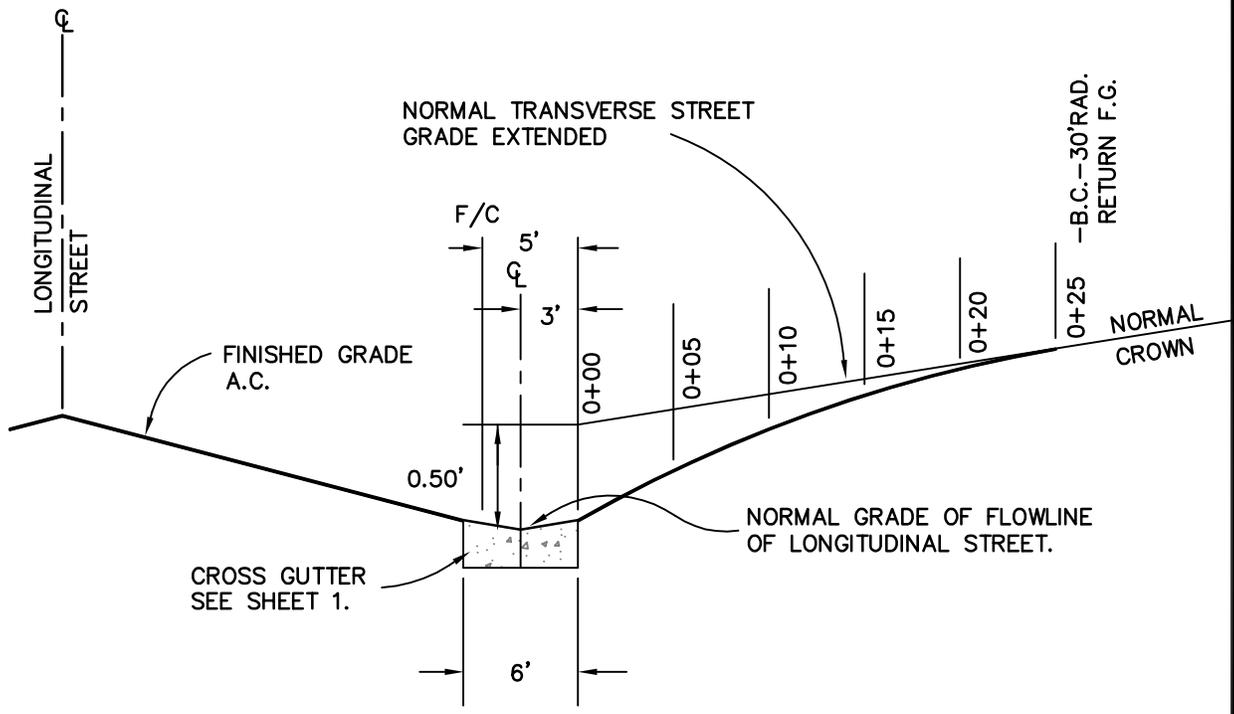
STANDARD P.C.C. CROSS GUTTER

STD. NO.
218

SCALE: NONE DRAWN: CFB CHK: MGK APPVD: *Thomas M. Mennett*

DATE: OCT 2009

Images: Willits Logo.jpg Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits211-220.dwg Layout Name: 218 (2 of 2) Plot Date: Sep 29, 2009 at 10:30



PROFILE ALONG Q TRANSVERSE STREET

NOTES:

ORDINATES, IN DECIMAL PARTS OF A FOOT, ESTABLISH THE DISTANCE OF THE PAVEMENT SURFACE OF THE TRANSVERSE STREET BELOW THE NORMAL STREET GRADE, FROM STA 0+00 TO 0+25.

A.C. SURFACING						
STA	0+00	0+05	0+10	0+15	0+20	0+25
ORDIN	0.42	0.31	0.20	0.09	0.02	0.00

SHEET 2 OF 2



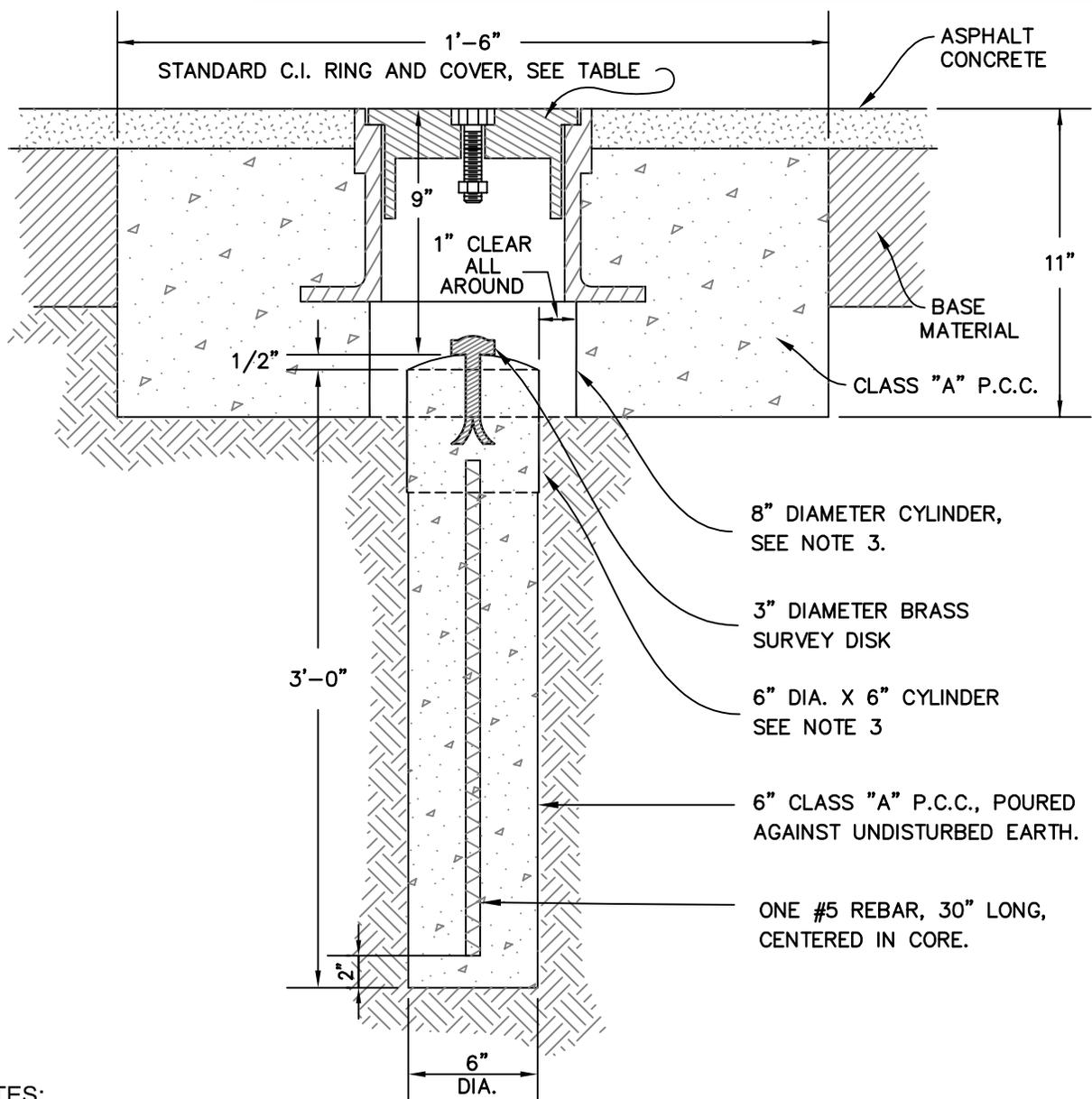
**STANDARD STREET PROFILE
AT P.C.C. CROSS GUTTER**

STD. NO.
218

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mannett*

DATE: OCT 2009

Images: Willits Logo.jpg Xrefs: Path: \\erosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001\Willits City Standards\CAD\01064-09-001\dwg\Willits211-220.dwg Layout Name: 219 Plot Date: Sep 29, 2009 at 10:30



NOTES:

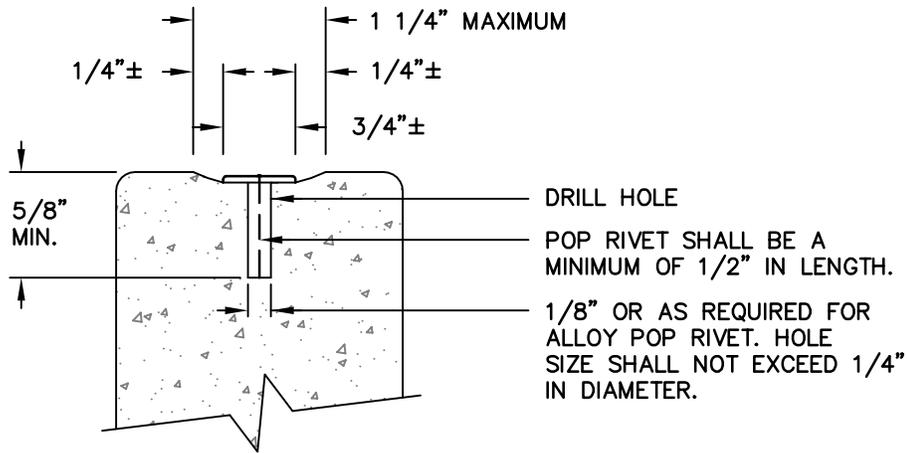
1. SURVEYOR OR ENGINEER SETTING THE MONUMENT SHALL INDICATE EXACT POINT BY MAKING A CROSS ON THE CAP AND SHALL STAMP YEAR SET AND HIS/HER LICENSE TYPE AND NUMBER.
2. THE DEPTH OF THE MONUMENT POST SHALL BE LENGTHENED OR SHORTENED AS DICTATED BY THE GROUND CONDITIONS OR AS APPROVED BY THE CITY ENGINEER. IN SOFT GROUND OR FILL ARE AS THE MONUMENT POST SHALL BE LENGTHENED TO BED IT ON A STABLE BASE.
3. CYLINDER MATERIAL SHALL BE THINWALL A.B.S. OR P.V.C. PLASTIC PIPE.
4. TOP OF MONUMENT CORE SHALL BE FINISHED SMOOTH AND ROUNDED WITH NO CONCRETE ABOVE EDGE OF BRASS SURVEY MARKER.
5. ASTM CLASS 30 IRON CASTINGS DIPPED IN ASPHALT PAINT

APPROVED MONUMENT COVERS:
<ol style="list-style-type: none"> 1. SOUTH BAY FOUNDRY SBF 1201 2. "VISCO NO. 129" 3. "AMERICAN BRASS AND IRON FOUNDRY MODEL 5020-21" 4. ARTMARK PROD. CO. APC-51 5. SANTA ROSA CAST PRODUCTS SP-51

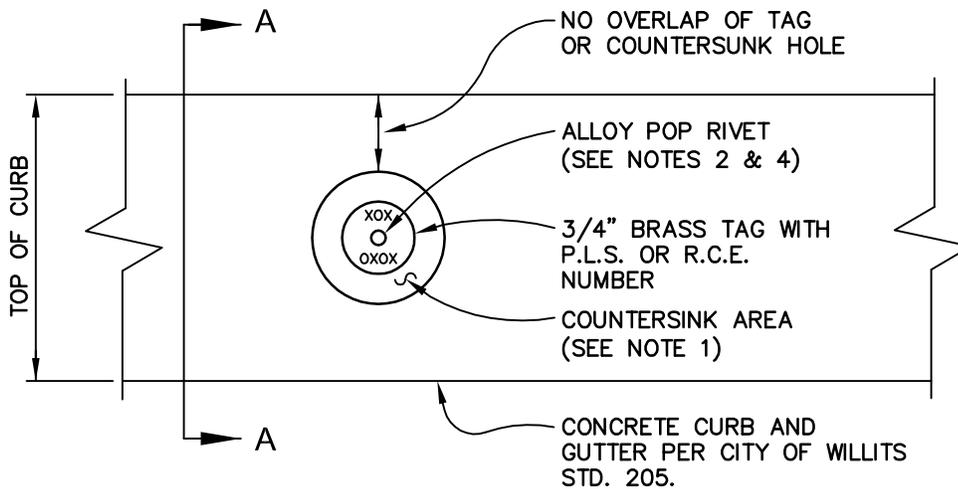


CITY MONUMENT				
SCALE: NONE	DRAWN: CFB	CHK: MGK	APPVD: <i>Thomas M. Mennett</i>	

STD. NO. 219
DATE: OCT 2009



SECTION A-A



NOTES:

1. BRASS TAG SHALL BE COUNTERSUNK SO THAT TOP OF TAG AND RIVET IS AT OR BELOW THE SURFACE OF THE TOP OF CURB. BRASS TAG SHALL BE SET TO ENSURE A PERMANENTLY PLACED MONUMENT. EPOXY RESIN MAY BE USED IN ADDITION TO ABOVE METHODS.
2. DRILL HOLE SHALL BE DRILLED ONLY. AN ALLOY POP RIVET SHALL BE USED TO ATTACH BRASS TAG TO TOP OF CURB.
3. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
4. IMPACT FASTENERS ARE NOT ALLOWED.



**LOT CORNER REFERENCE MONUMENT
AT STREET FRONTAGE**

STD. NO.
220

SCALE: NONE

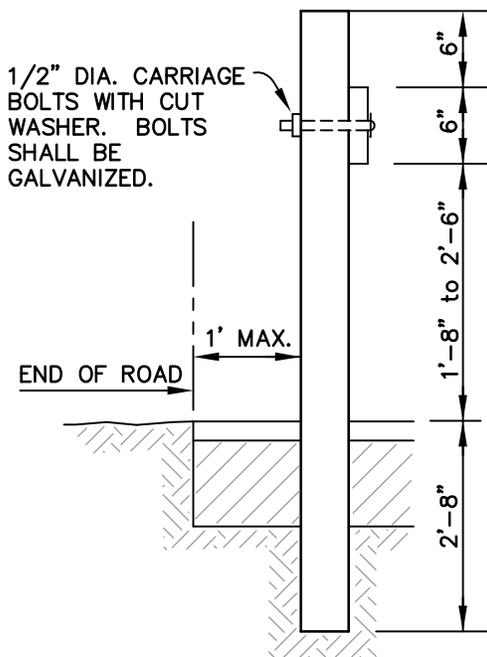
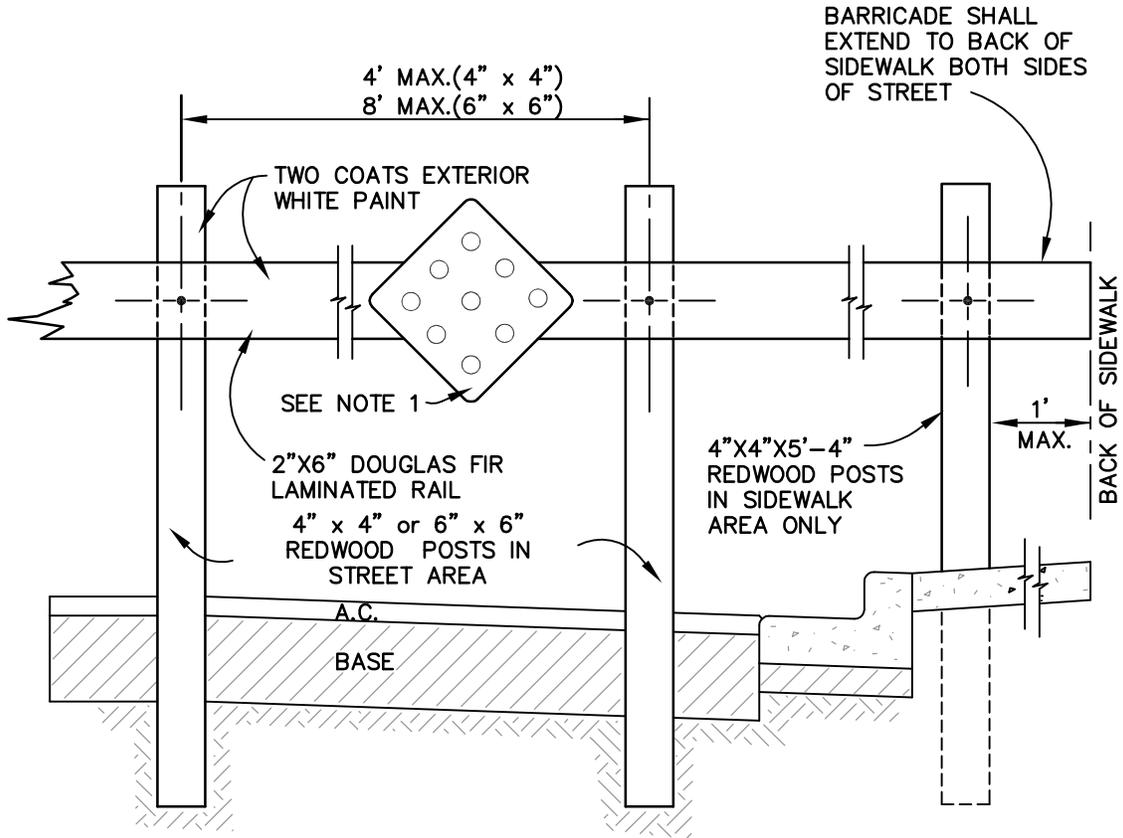
DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Mennett*

DATE: OCT 2009

Images: Willits Logo.jpg Xrefs: Path: \\srosr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits21-224.dwg Layout Name: 221 Plot Date: Sep 29, 2009 at 10:31



NOTES:

1. INSTALL 18" X 18" ALUMINUM TYPE N-2 REFLECTOR, NO MORE THAN 8' O.C., MINIMUM 3
2. SIDEWALKS ONLY - INSTALL 4" YELLOW REFLECTORS.



STANDARD BARRICADE

STD. NO.
221

SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Mennett*

DATE: OCT 2009

NOTES:

1. WHERE EXISTING STREET IS PCC OVERLAID WITH AC, THE PCC SECTION REMOVED BY TRENCHING SHALL NOT BE REPLACED.
2. FINAL TRENCH PAVING IS REQUIRED TO BE EXPANDED TO A PAINTED LANE STRIPE, EXISTING PAVEMENT PATCH, THE LIP OF GUTTER OR EDGE OF PAVEMENT WHERE SUCH STREET FEATURE IS WITHIN 3 FEET OF THE FINAL SAWCUT.
3. PERMANENT PAVING MUST BE COMPLETED WITHIN 30 DAYS. AC OR CUTBACK (1" THICK) MAY BE PLACED AS A TEMPORARY SURFACE IN ROADWAY AREAS AND SHALL BE MAINTAINED UNTIL PERMANENT PAVING IS COMPLETED. WHERE WARRANTED AND AT THE DISCRETION OF THE CITY ENGINEER, TRENCH PLATES MAY BE USED FOR UP TO 2 WEEKS. TRENCH PLATES SHALL HAVE A SKID RESISTANT SURFACE, SECURED WITH 24" WIDE COLLAR OF CURBACK AROUND ALL SIDES OF PLATE, AND TAPERED TO PROVIDE SMOOTH TRANSITIONS.
4. A TACK COAT OF ASPHALTIC EMULSION OR PAVING GRADE ASPHALT SHALL BE APPLIED TO EXISTING A.C. PAVEMENT AT ALL CONTACT SURFACES PRIOR TO PERMANENT A.C. PAVING PER SECTION 22-7 OF STANDARD SPECIFICATIONS.
5. UNLESS OTHERWISE SPECIFIED, PERMANENT PAVEMENT SHALL CONFORM IN QUALITY AND THICKNESS TO THE TYPE OF PAVEMENT REMOVED, BUT IN NO CASE SHALL BE LESS THAN FOUR INCHES (4") OF ASPHALTIC CONCRETE ON TWELVE INCHES (12") OF AGGREGATE BASE CLASS 2.
6. EXISTING PAVEMENT SHALL BE SAWCUT AND REMOVED IN SUCH A MANNER AS NOT TO TEAR, BULGE, OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL WHEN PRACTICAL. ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO THE STREET CENTERLINE.
7. R.C. – RELATIVE COMPACTION AS DETERMINED BY ASTM DESIGNATION D 2922-81 AND CITY STANDARDS.
8. NO SOLID BLOCKING PERMISSIBLE BENEATH PIPE.
9. JETTING BACKFILL IS NOT PERMITTED.
10. ROCKS EXCEEDING 6" SHALL NOT BE PERMITTED WITHIN THE TRENCH SECTION.
11. THE MINIMUM EQUIPMENT REQUIRED FOR COMPACTION OF NATIVE BACKFILL MATERIAL SHALL CONSIST OF A SHEEPSFOOT VIBRATORY ROLLER WITH A MINIMUM DRUM WIDTH OF 48", A MINIMUM GROSS WEIGHT OF 4600 LBS, OR MUST MEET APPROVAL OF THE CITY ENGINEER.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE PRIVATE SOILS ENGINEER AND THE CITY INSPECTOR 48 HOURS PRIOR TO EXCAVATION.
13. THE PRIVATE SOILS ENGINEER SHALL PROVIDE TESTING AND OBSERVATIONS ON A FULLTIME BASIS DURING ALL NATIVE BACKFILLING OPERATIONS. THE PRIVATE SOILS ENGINEER IS RESPONSIBLE FOR THE VERIFICATION OF ALL NATIVE BACKFILL WORK INCLUDING COMPACTION AND UNIFORM MOISTURE CONDITIONING, AND THAT MOISTURE CONTENT IS ABOVE OPTIMUM MOISTURE TO THE EXTENT APPROPRIATE FOR THE NATIVE MATERIAL BEING USED.
14. STREETS WHERE NATIVE TRENCH BACKFILL IS USED, TREATED (LIME, CEMENT, FLYASH, ETC.) SUBGRADE SHALL NOT BE USED AS PART OF THE STRUCTURAL SECTION.

TRENCH WIDTH FOR HDPE PIPE	
PIPE SIZE*	TRENCH WIDTH (MIN.)
15"	36"
18"	48"
24"	54"
30"	60"
36"	72"

PIPE MUST BE CENTERED IN THE TRENCH.
*INSIDE DIAMETER

TABLE 1			
NOMINAL PIPE SIZE	MINIMUM DIMENSIONS		
	A	B	C
≥12"	6"	3"	6"
>12"-18"	9"	6"	8"
>18"-24"	9"	6"	8"
>24"	12"	6"	12"

SHEET 1 OF 2

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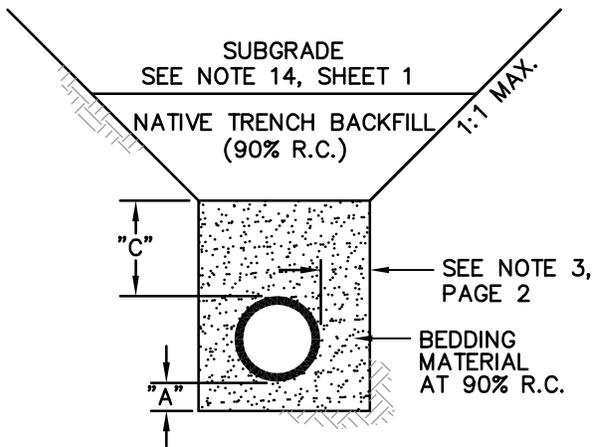


STANDARD TRENCH NOTES

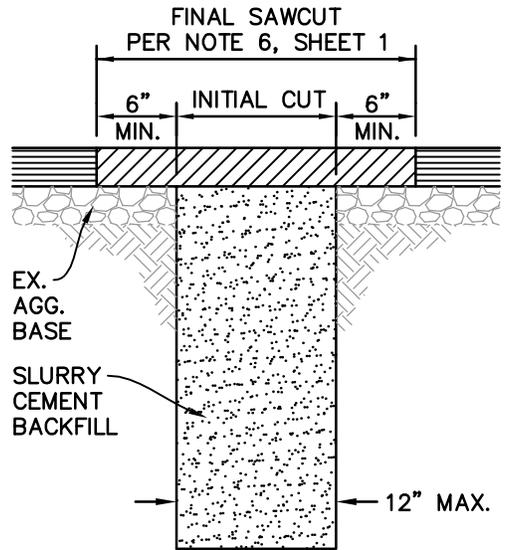
STD. NO.
222

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mennett* | DATE: OCT 2009

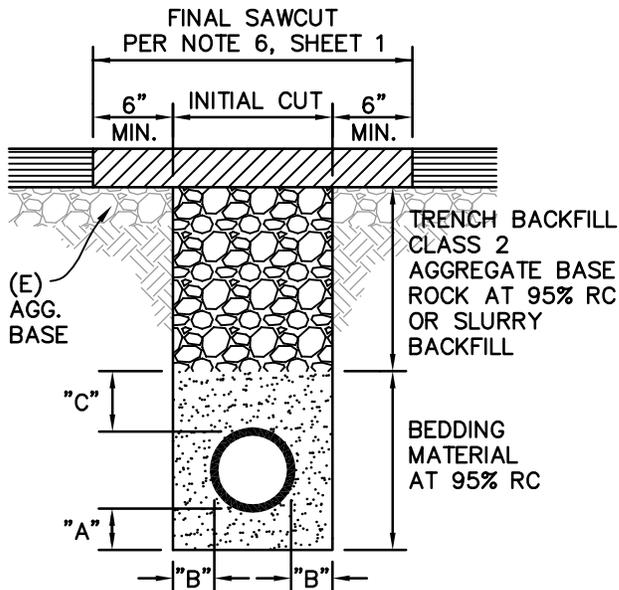
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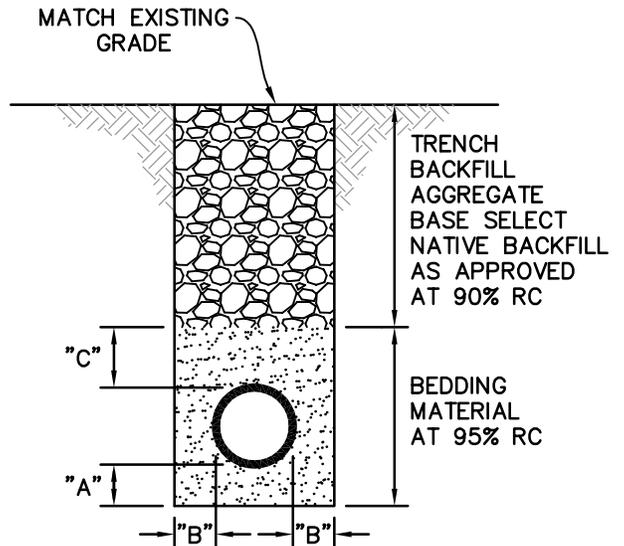
NEW STREETS UNDER CONSTRUCTION



NARROW TRENCH



ROADWAYS



NON-ROADWAY AREAS

NOTE:
SEE SHEET 1 FOR TRENCH DIMENSIONS

SHEET 2 OF 2



**STANDARD TRENCH DETAIL
TRENCH BACKFILL**

STD. NO.
222

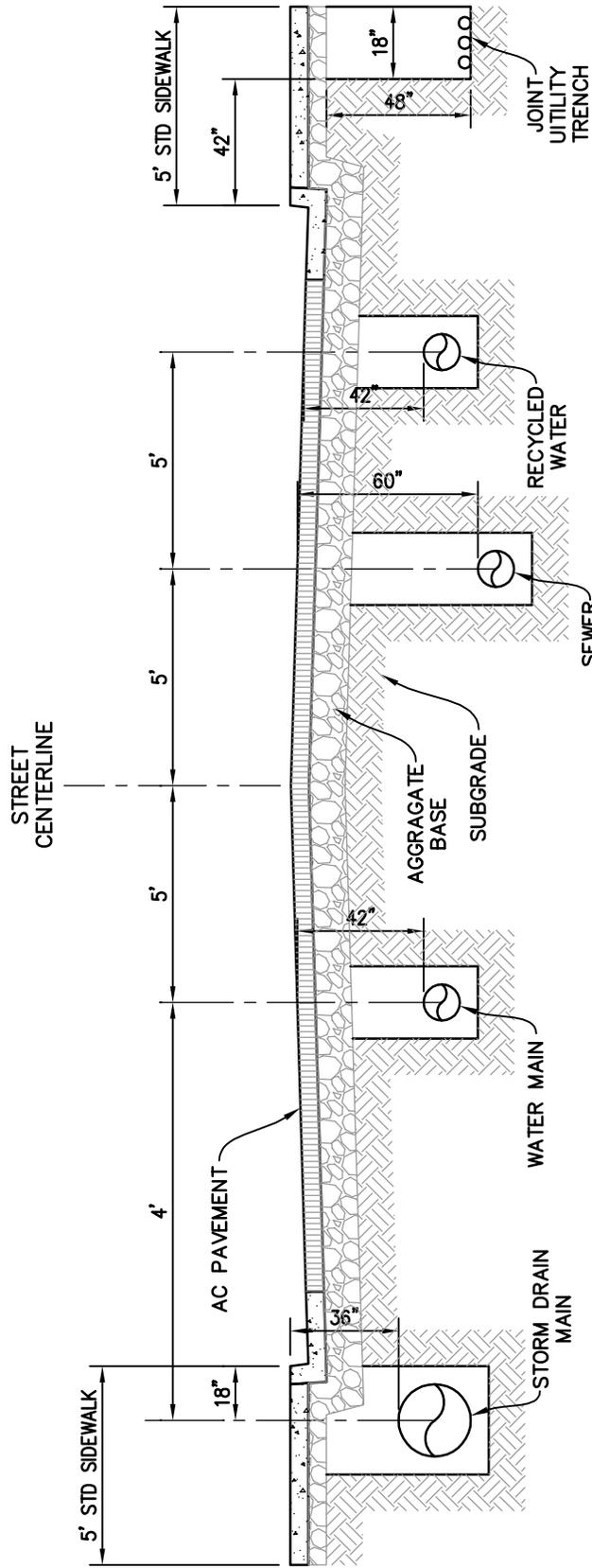
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD: *Thomas M. Mennett*

DATE: OCT 2009



NOTE:
 MINIMUM VERTICAL SEPARATION BETWEEN CROSSING UTILITIES (SEWER, WATER, RECYCLED WATER & STORM DRAIN) SHALL BE 12", EXCEPT: 6" VERTICAL SEPARATION SHALL BE MAINTAINED WHEN CROSSING DRY UTILITIES AND JOINT UTILITY TRENCH.

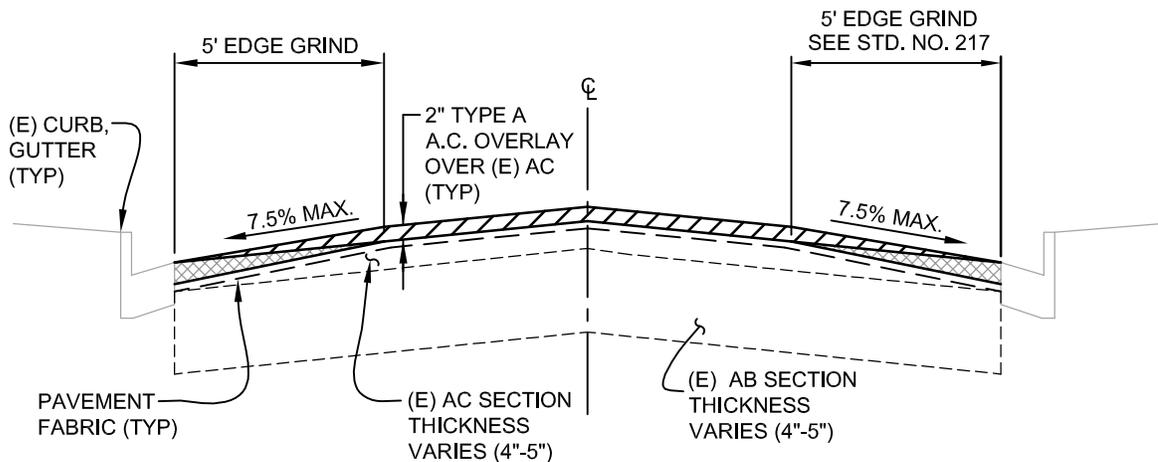
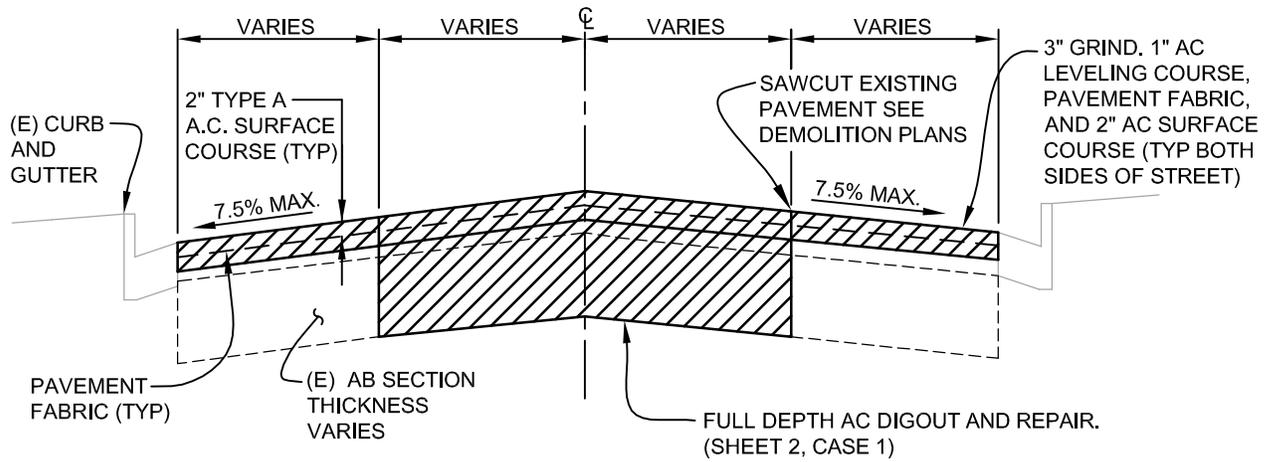
PUBLIC UTILITIES TYPICAL LOCATION

STD. NO.
223

SCALE: NONE DRAWN: CFB CHK: MGK APPVD: *Thomas M. Mannett*

DATE: OCT 2009

Images: Willits Logo.jpg Xrefs: Path: \\erosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001\Willits City Standards\CAD\01064-09-001\dwg\Willits21-224.dwg Layout Name: 224 (1) Plot Date: Sep 29, 2009 at 10:31



NOTE:

THE FINISHED AC GRADE AT THE FACE OF THE GUTTER SHALL BE 1/4" HIGHER THAN THE LIP OF THE GUTTER (TYP)

SHEET 1 OF 2



**FULL DEPTH
AC REPAIR AND OVERLAY**

STD. NO.
224

SCALE: NONE

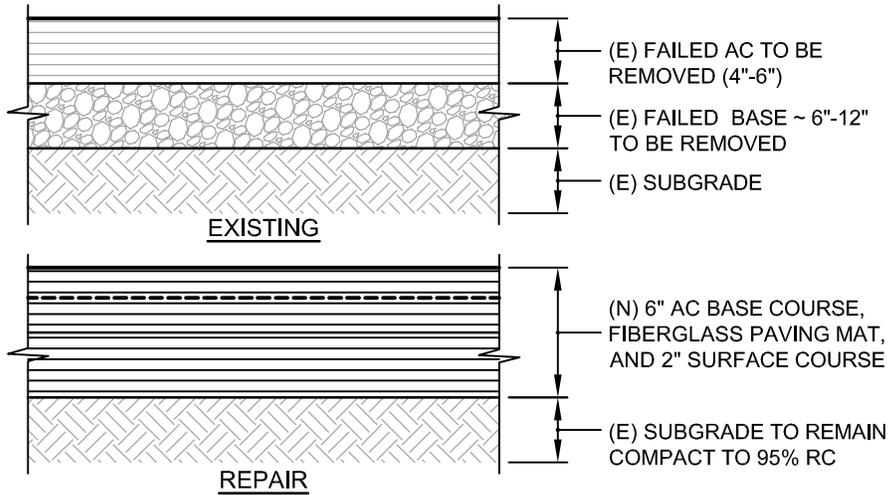
DRAWN: CFB

CHK: MGK

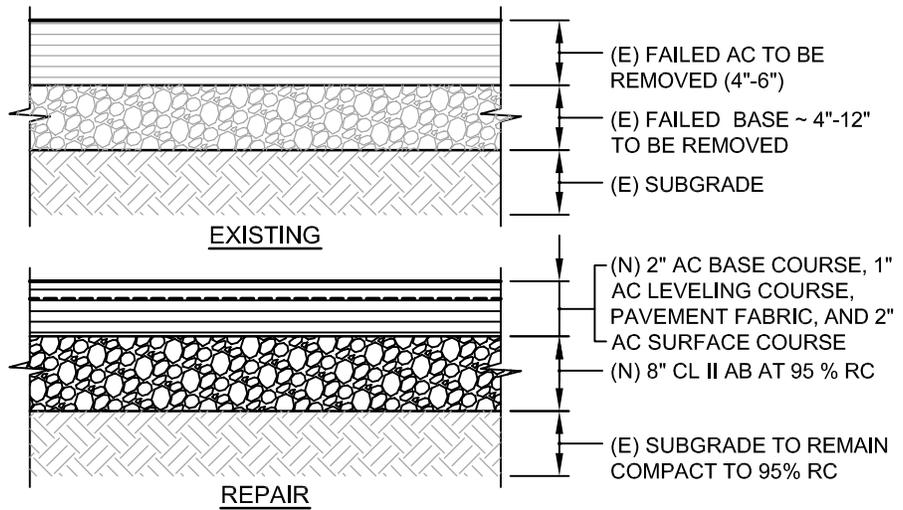
APPVD: *Thomas M. Mennett*

DATE: OCT 2009

Images: Willits Logo.ppt; Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD\01064-09-001.dwg\Willits21-224.dwg Layout Name: 224 (2) Plot Date: Sep 29, 2009 at 10:31

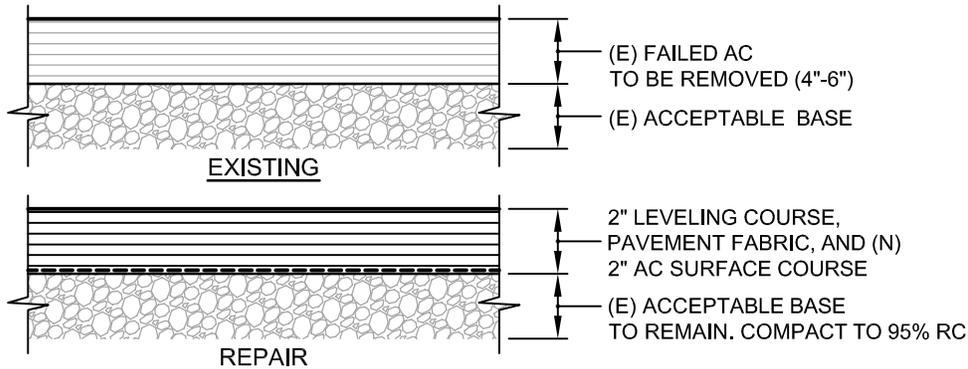


CASE 1: FULL DEPTH AC



CASE 2: REPLACE EXISTING AB

NOTE:
(E) AGG. BASE TO BE REMOVED



CASE 3: EXISTING AB TO REMAIN

SHEET 2 OF 2



AC REPAIR AND OVERLAY

STD. NO.
224

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: *Thomas M. Mennett*

DATE: OCT 2009