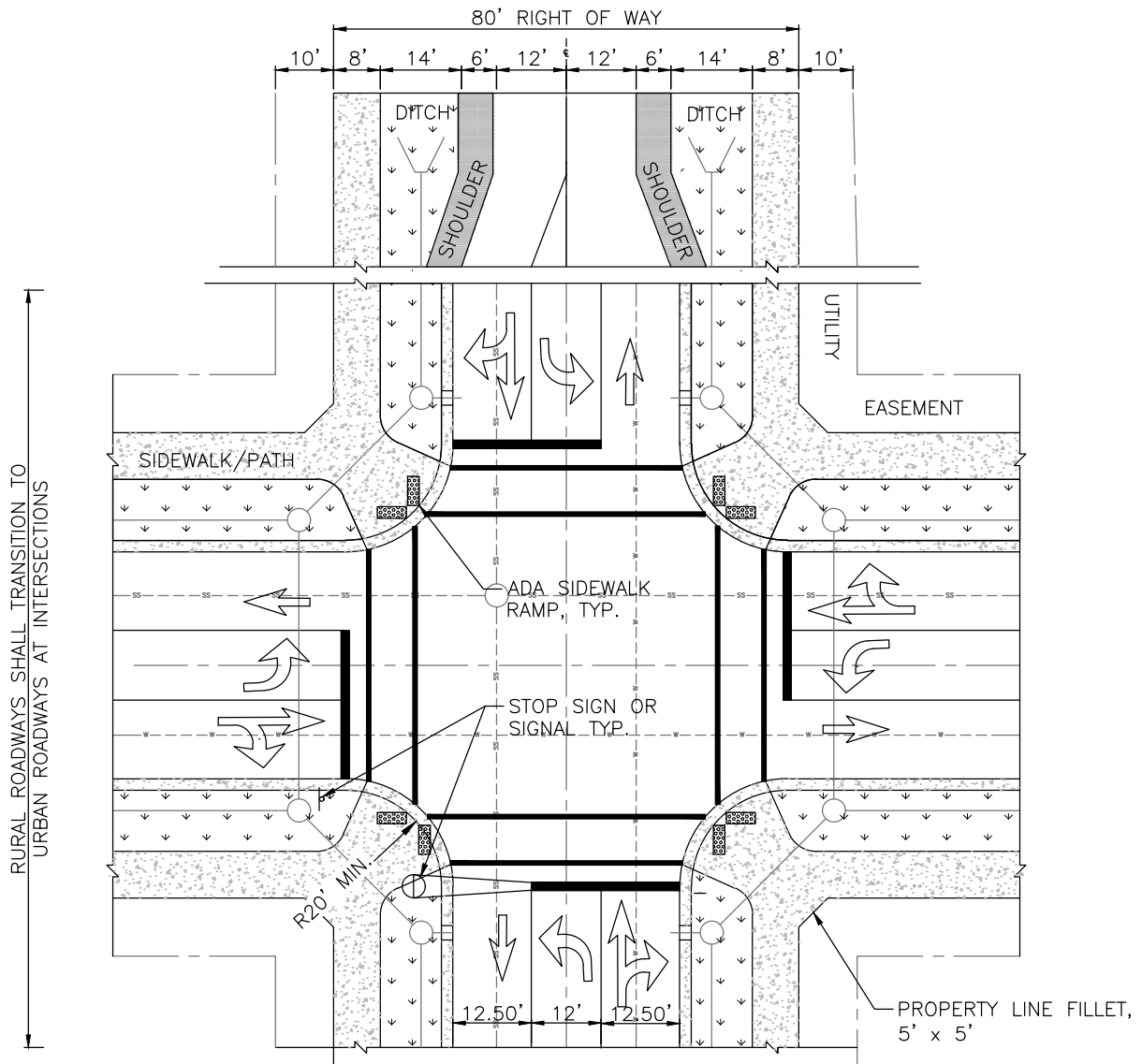
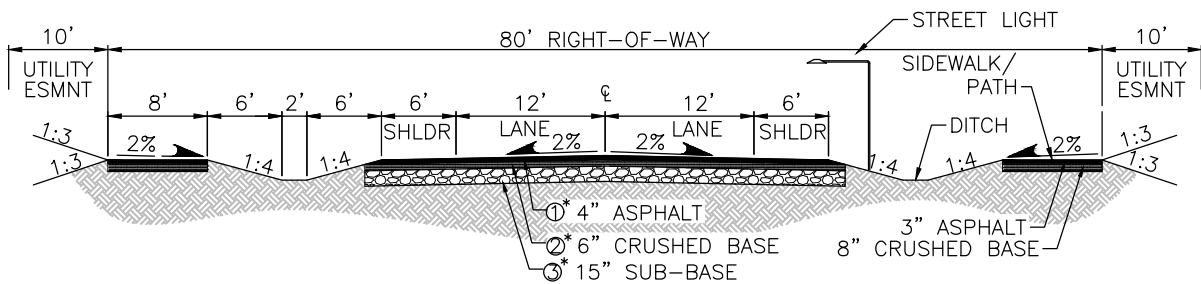


⊙ SEE ROAD CONSTRUCTION GENERAL NOTES FOR MATERIAL SPECIFICATIONS

UTILITY NOTE:
 ALL NEW UTILITIES SHALL BE PLACED UNDERGROUND. EXCEPT FOR SEWER AND WATER, UNDERGROUND UTILITIES, IF PLACED IN RIGHT OF WAY OR EASEMENT SHALL BE LOCATED BETWEEN THE BACK OF SIDEWALK AND EASEMENT LINE. NO UNDERGROUND UTILITIES SHALL BE PLACED IN THE BOULEVARD BETWEEN THE BACK OF CURB AND SIDEWALK.



1. LANE CONFIGURATION AND LENGTHS TO BE DETERMINED BY TRAFFIC ANALYSIS
2. TAPER RATES SHALL BE DETERMINED BY DESIGN SPEED OF THE ROADWAY
3. ALL PAVEMENT MARKINGS SHALL BE EPOXY AND CONFORM TO CURRENT MUTCD STANDARDS

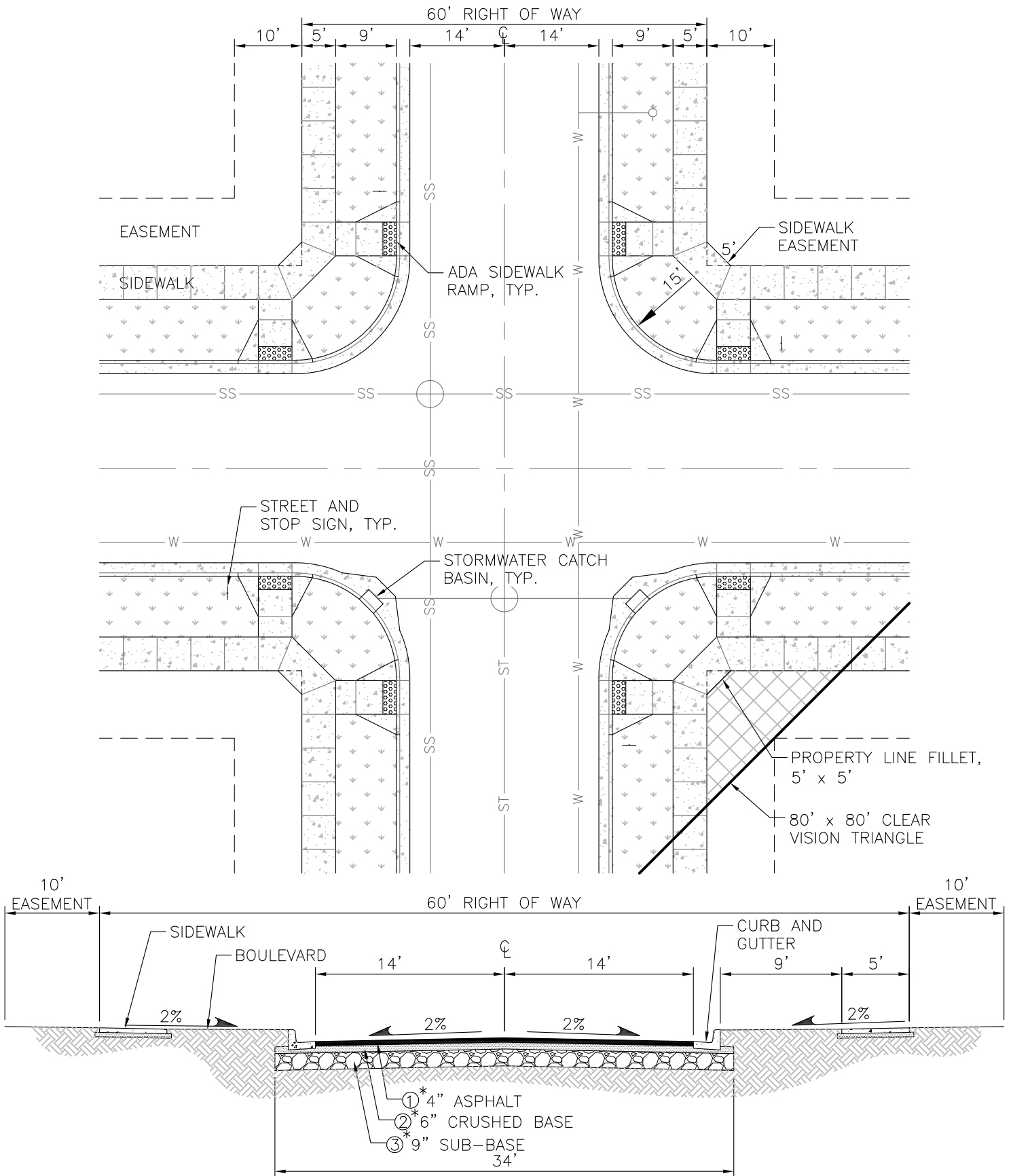


* SEE ROAD CONSTRUCTION GENERAL NOTES FOR MATERIAL SPECIFICATIONS

UTILITY NOTE:
ALL NEW UTILITIES SHALL BE PLACED UNDERGROUND.

ST.2

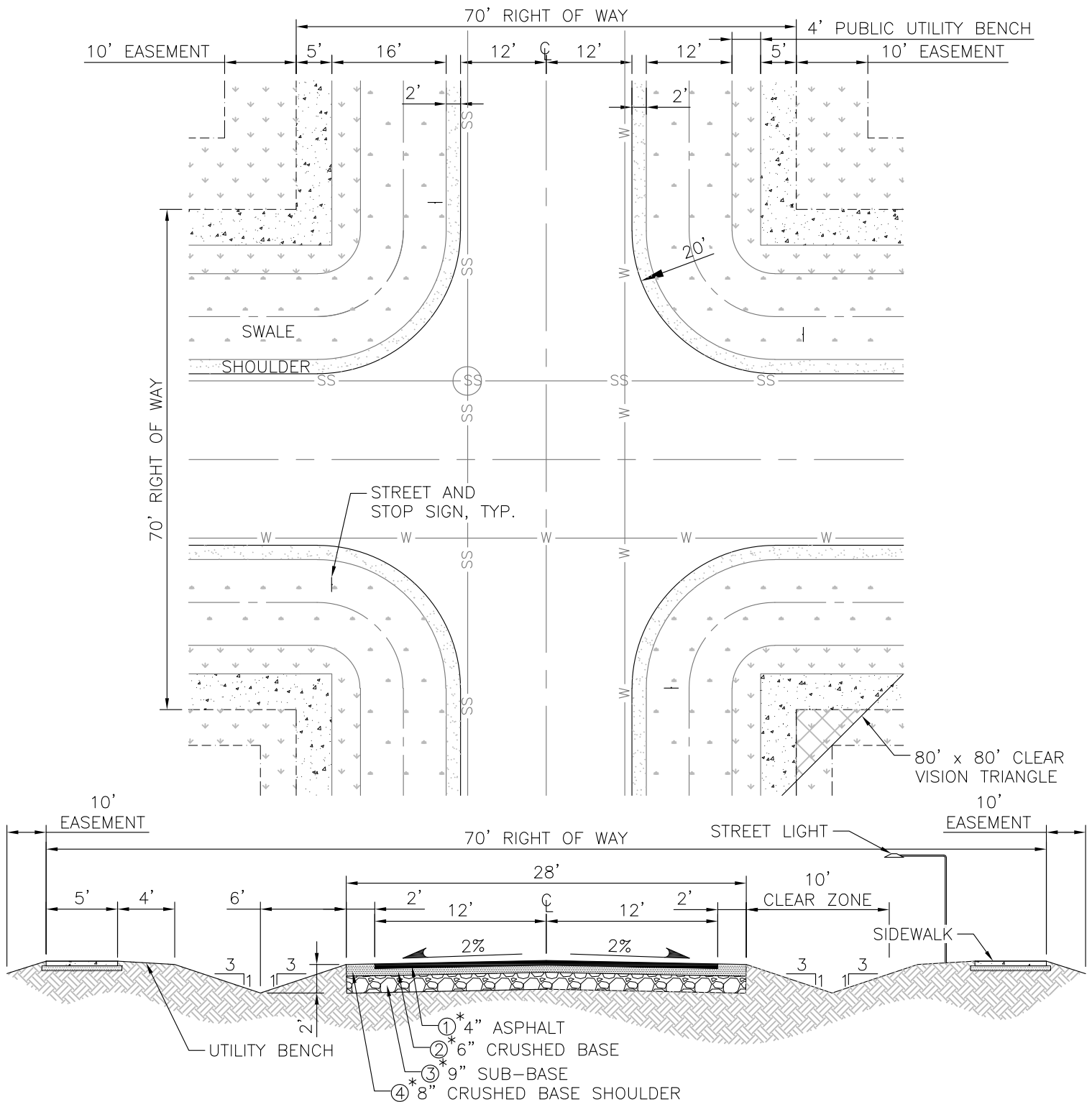
RURAL COLLECTOR



⊛ SEE ROAD CONSTRUCTION GENERAL NOTES FOR MATERIAL SPECIFICATIONS

UTILITY NOTE:

ALL NEW UTILITIES SHALL BE PLACED UNDERGROUND. EXCEPT FOR SEWER AND WATER, UNDERGROUND UTILITIES, IF PLACED IN RIGHT OF WAY OR EASEMENT SHALL BE LOCATED BETWEEN THE BACK OF SIDEWALK AND EASEMENT LINE. NO UNDERGROUND UTILITIES SHALL BE PLACED IN THE BOULEVARD BETWEEN THE BACK OF CURB AND SIDEWALK.



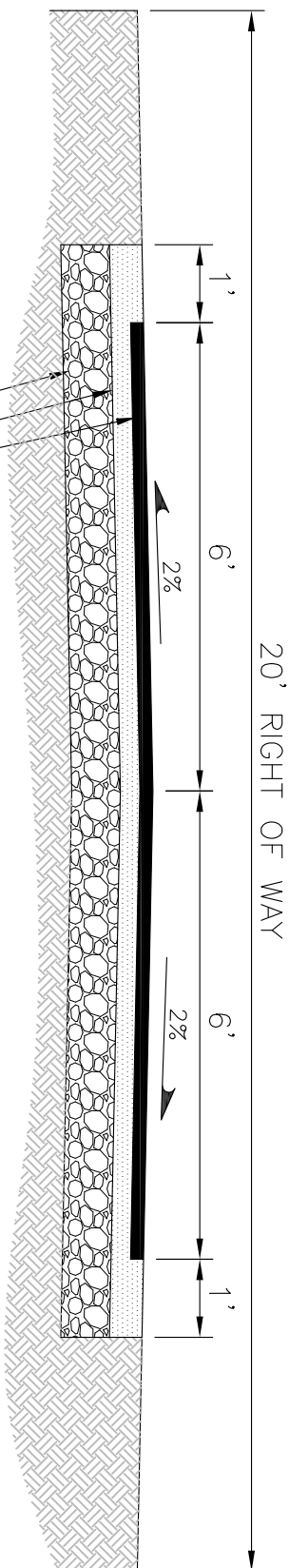
⊛ SEE ROAD CONSTRUCTION GENERAL NOTES FOR MATERIAL SPECIFICATIONS

UTILITY NOTE:

ALL NEW UTILITIES SHALL BE PLACED UNDERGROUND. EXCEPT FOR SEWER AND WATER, UNDERGROUND UTILITIES, IF PLACED IN RIGHT OF WAY OR EASEMENT SHALL BE LOCATED OUTSIDE OF DITCH SECTIONS, AND BIKE PATHS. NO PRIVATE UNDERGROUND UTILITIES SHALL BE PLACED IN THE PUBLIC RIGHT-OF-WAY.

NOTE:

1. THIS CROSS SECTION MAY BE USED ONLY WHEN THE AREA ADJACENT TO THE PROPOSED DEVELOPMENT DOES NOT HAVE CURBING OR ESTABLISHED STORM DRAINAGE SYSTEMS. THIS CROSS SECTION SHALL ONLY BE USED IN R1 ZONING AND MUST BE APPROVED BY THE CITY COUNCIL PRIOR TO INCORPORATING INTO THE DRAWINGS.
2. A 10 FT CLEAR ZONE MUST BE MAINTAINED ADJACENT TO SHOULDER OF ROAD. NO ADDRESS POSTS OR MAILBOXES MAY BE PLACED IN THE CLEAR ZONE.
3. NO PARKING IS ALLOWED ALONG THE STREET

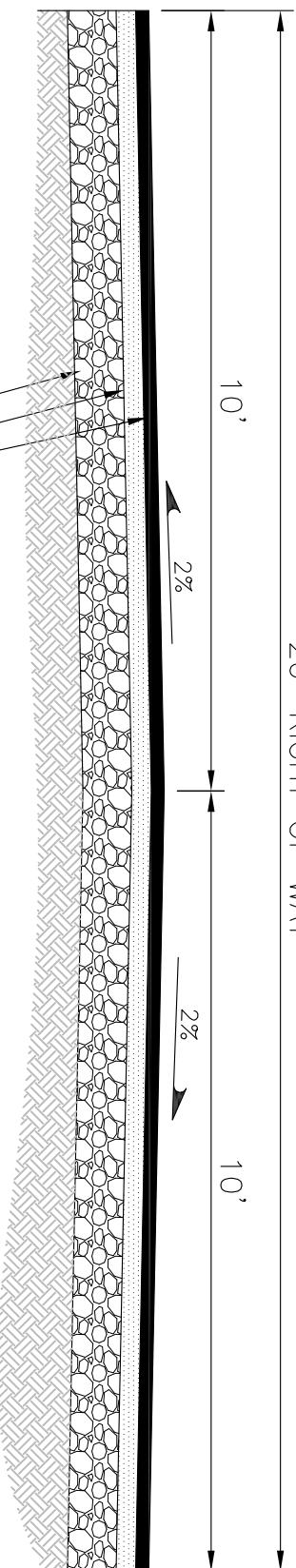


- ①* 4" ASPHALT
- ②* 6" CRUSHED BASE
- ③* 15" SELECT SUB-BASE

⊛ SEE ROAD CONSTRUCTION GENERAL NOTES FOR MATERIAL SPECIFICATIONS

RESIDENTIAL

20' RIGHT OF WAY



- ①* 4" ASPHALT
- ②* 6" CRUSHED BASE
- ③* 15" SELECT SUB-BASE

⊛ SEE ROAD CONSTRUCTION GENERAL NOTES FOR MATERIAL SPECIFICATIONS

COMMERCIAL

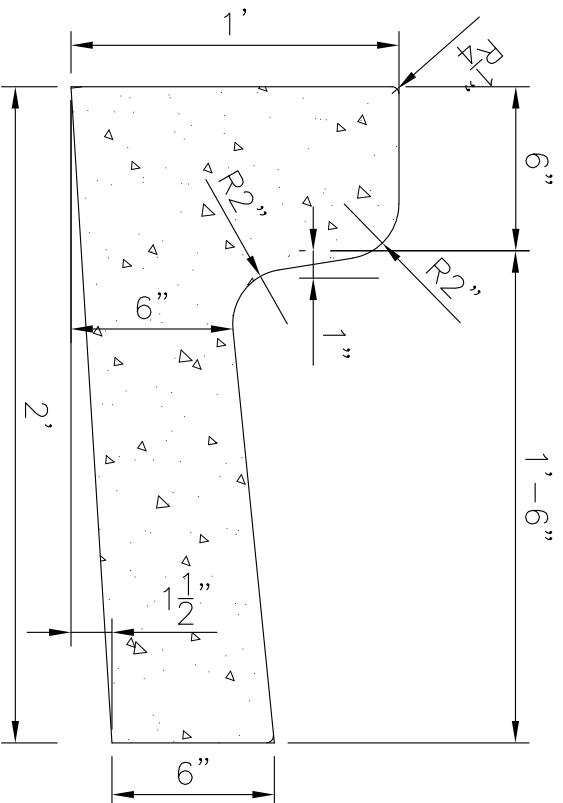
ALLEY TYPICAL SECTION

ST.5

- ① ASPHALT – SHALL BE PG58-28 ASPHALT CONCRETE PAVEMENT SURFACE COURSE PG58-28 SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 02510 MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, FIFTH EDITION, APRIL 2010. SEE CITY OF KALISPELL STANDARDS FOR DESIGN AND CONSTRUCTION FOR PAVEMENT AND MATERIAL TESTING REQUIREMENTS.
- ② CRUSHED GRAVEL BASE, -3/4” DIAMETER @95% MAX DRY DENSITY (\pm 3% OPTIMUM MOISTURE) PER AASHTO T-99
- ③ SUB-BASE @95% MAX DRY DENSITY (\pm 3% OPTIMUM MOISTURE) PER AASHTO T-991.
- ④ CRUSHED GRAVEL SHOULDER, -3/4” DIAMETER @ 95% MAX DRY DENSITY (+/- 3% OPTIMUM MOISTURE) PER AASHTO T-99.
- A. THICKNESSES OF ASPHALT, CRUSHED GRAVEL AND SUB-BASE SHALL BE AS SHOWN, UNLESS AN ALTERNATE DESIGN IS APPROVED. THE FINAL STREET DESIGN SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO START OF CONSTRUCTION.
- B. THE WIDTH OF THE RIGHT-OF-WAY MAY BE INCREASED DUE TO UTILITIES, OR OTHER REQUIREMENTS.
- C. THE MAXIMUM GRADE SHALL BE 8%.
- D. ON STREET PARKING GOVERNED BY CITY OF KALISPELL SUBDIVISION REGULATIONS.

ROAD CONSTRUCTION NOTES AND SPECIFICATIONS

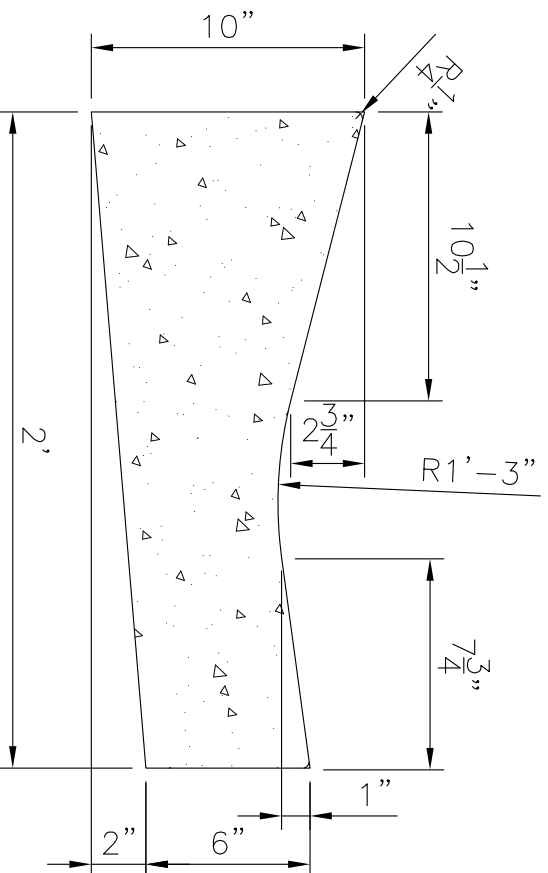
ST.6



1. 1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AT EACH POINT OF CURVATURE AND POINT OF TANGENCY.
2. CONTRACTION JOINTS SHALL BE PLACED AT EVERY 10' OF CURB LENGTH AND SHALL HAVE A MINIMUM DEPTH OF 1 1/2" AND A MINIMUM WIDTH OF 1/8". CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING. A TOOL SHALL BE USED WHICH WILL LEAVE CORNERS ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR THE SPECIFIED MINIMUM DEPTH.
3. EXPOSED EDGES SHALL BE FINISHED TO A RADIUS OF 1/4".
4. CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28-DAY STRENGTH OF 4000 PSJ, 6% ± 1 1/2% AIR ENTRAINMENT, AND MAXIMUM SLUMP OF 4".
5. INDIVIDUAL CONTRACTORS FORMS MAY VARY SLIGHTLY FROM THIS PATTERN. PATTERNS DIFFERING MATERIALLY FROM THE ABOVE DIMENSIONS SHALL BE SUBMITTED TO THE CITY FOR REVIEW.
6. FOUR INCHES OF CRUSHED GRAVEL BASE MATERIAL, -3/4" DIAMETER IS REQUIRED FOR THE CURB AND GUTTER FOUNDATION. THE BASE MATERIAL SHALL BE COMPACTED TO 95% DENSITY (± 3% OPTIMUM MOISTURE) PER AASHTO T-99.

STANDARD CURB AND GUTTER SECTION

ST.7



1. 1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AT EACH POINT OF CURVATURE AND POINT OF TANGENCY.

2. CONTRACTION JOINTS SHALL BE PLACED AT EVERY 10' OF CURB LENGTH AND SHALL HAVE A MINIMUM DEPTH OF 1 1/2" AND A MINIMUM WIDTH OF 1/8". CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OF SCORING. A TOOL SHALL BE USED WHICH WILL LEAVE CORNERS ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR THE SPECIFIED MINIMUM DEPTH.

3. EXPOSED EDGES SHALL BE FINISHED TO A RADIUS OF 1/4".

4. CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28-DAY STRENGTH OF 4000 PSI, 6% ± 1 1/2% AIR ENTRAINMENT, AND MAXIMUM SLUMP OF 4".

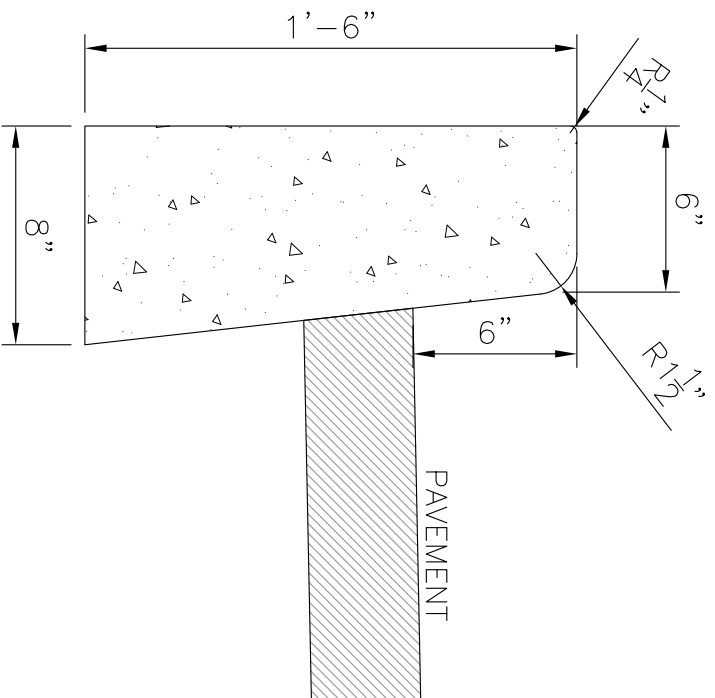
5. INDIVIDUAL CONTRACTORS FORMS MAY VARY SLIGHTLY FROM THIS PATTERN. PATTERNS DIFFERING MATERIALLY FROM THE ABOVE DIMENSIONS SHALL BE SUBMITTED TO THE CITY FOR REVIEW.

6. FOUR INCHES OF CRUSHED GRAVEL BASE MATERIAL, -3/4" DIAMETER IS REQUIRED FOR THE CURB AND GUTTER FOUNDATION. THE BASE MATERIAL SHALL BE COMPACTED TO 95% DENSITY (± 3% OPTIMUM MOISTURE) PER AASHTO T-99.

7. THIS CURB DOES NOT MEET HANDICAPPED ACCESS REQUIREMENTS AND SHALL NOT BE USED FOR ACCESS RAMPS.

ST.8

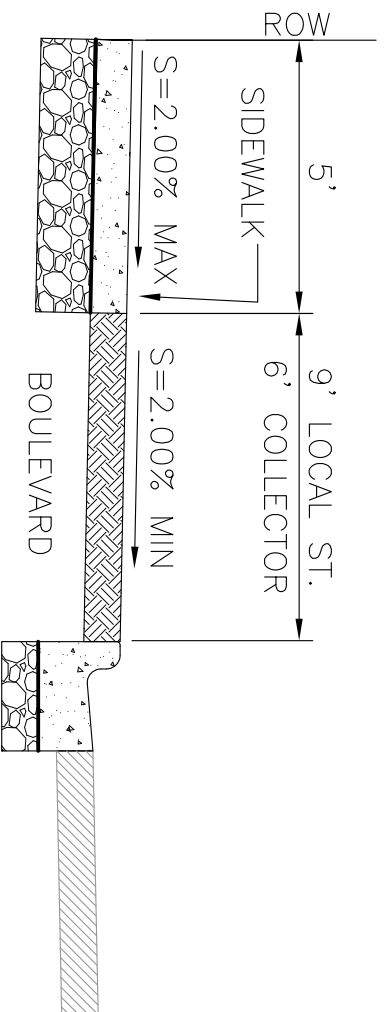
STANDARD DRIVE OVER CURB AND GUTTER



1. 1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AT EACH POINT OF CURVATURE AND POINT OF TANGENCY.
2. CONTRACTION JOINTS SHALL BE PLACED AT EVERY 10' OF CURB LENGTH AND SHALL HAVE A MINIMUM DEPTH OF 1 1/2" AND A MINIMUM WIDTH OF 1/8". CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING. A TOOL SHALL BE USED WHICH WILL LEAVE CORNERS ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR THE SPECIFIED MINIMUM DEPTH.
3. VISIBLE EDGES SHALL BE FINISHED TO A RADIUS OF 1/4", UNLESS OTHERWISE NOTED.
4. GRADE, ALIGNMENT AND FORMS SHALL BE INSPECTED BY THE CITY PRIOR TO POURING.
5. CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28-DAY STRENGTH OF 4000 PSI, 6% TO 8% AIR ENTRAINMENT, AND MAXIMUM SLUMP OF 4".
6. INDIVIDUAL CONTRACTORS FORMS MAY VARY SLIGHTLY FROM THIS PATTERN. PATTERNS DIFFERING MATERIALLY FROM THE ABOVE DIMENSIONS SHALL BE SUBMITTED TO THE CITY FOR REVIEW.
7. FOUR INCHES OF CRUSHED GRAVEL BASE MATERIAL, -3/4" DIAMETER IS REQUIRED FOR THE CURB FOUNDATION. THE BASE MATERIAL SHALL BE COMPACTED TO 95% MDD (+/- 3% MOISTURE) PER AASHTO T-99.
8. IF SLIP-FORMS ARE USED, A TEST SECTION SHALL BE POURED, INSPECTED AND APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO PLACEMENT OF ANY PERMANENT STRAIGHT CURB.
9. ONLY ALLOWED WITH SPECIFIC APPROVAL OF CITY ENGINEER TO MATCH EXISTING CURB.

STRAIGHT CURB SECTION

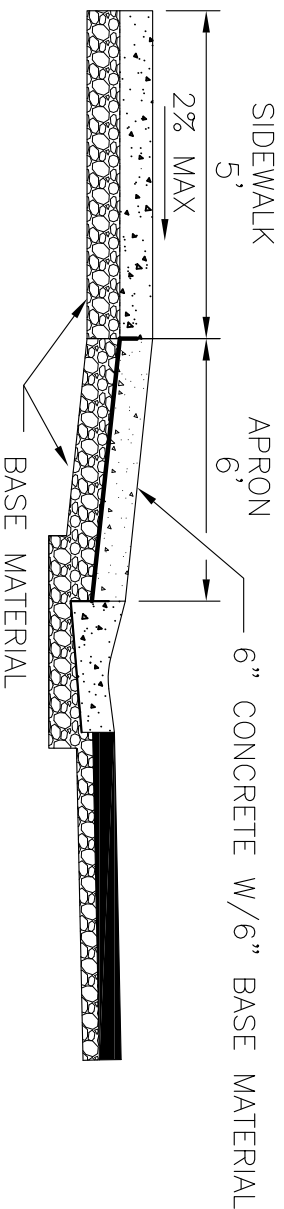
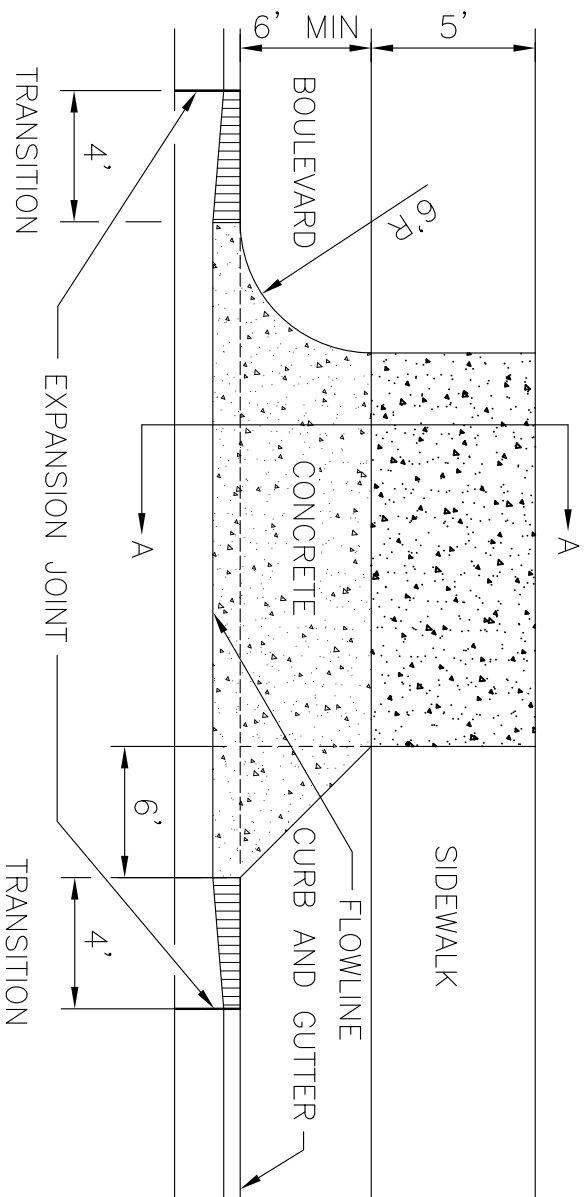
ST.9



1. PRE-FORMED 1/2" EXPANSION JOINT MATERIAL MEETING THE REQUIREMENTS OF AASHTO M-213 SHALL BE PLACED AT 45-FOOT INTERVALS AND AT ALL COLD JOINTS.
2. CONTRACTION JOINTS SHALL BE SPACED THE APPROXIMATE SAME DIMENSION AS THE WIDTH, BUT NOT TO EXCEED SIX FEET. CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING. A TOOL SHALL BE USED WHICH WILL LEAVE THE EDGES ROUNDED AND DESTROY AGGREGATE INTERLOCK FOR THE SPECIFIED MINIMUM DEPTH. CONTRACTION JOINTS SHALL BE A MINIMUM OF 1/4 TIMES THE SIDEWALK THICKNESS.
3. ALL VISIBLE EDGES AND JOINTS SHALL BE ROUNDED WITH AN EDGING TOOL WITH A MINIMUM 1/4" RADIUS.
4. CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28-DAY STRENGTH OF 4000 PSI, 6%± 1 1/2% AIR ENTRAINMENT, AND MAXIMUM SLUMP OF 4".
5. SIX INCHES OF CRUSHED GRAVEL BASE MATERIAL, -3/4" DIAMETER IS REQUIRED FOR THE SIDEWALK FOUNDATION. THE BASE MATERIAL SHALL BE COMPACTED TO 95% DENSITY (± 3% OPTIMUM MOISTURE) PER AASHTO T-99.
6. SIDEWALK MINIMUM THICKNESS:
 RESIDENTIAL: 4"
 COMMERCIAL OR AT DRIVE APPROACH: 6"

ST.10

STANDARD SIDEWALK SECTION

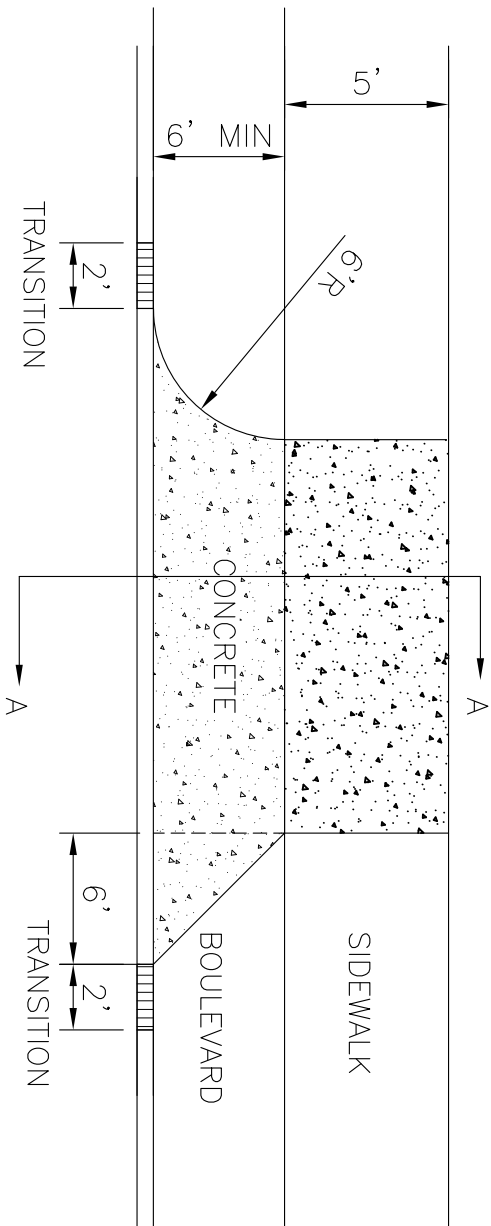


1. BASE MATERIAL SHALL BE CRUSHED GRAVEL, -3/4" DIAMETER COMPACTED TO 95% DENSITY (+/- 3% OPTIMUM MOISTURE) PER AASHTO T-99.
2. CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28-DAY STRENGTH OF 4000 PSI, 6% +/- 1 1/2% AIR ENTRAINMENT, AND MAXIMUM SLUMP OF 4"

SECTION A-A

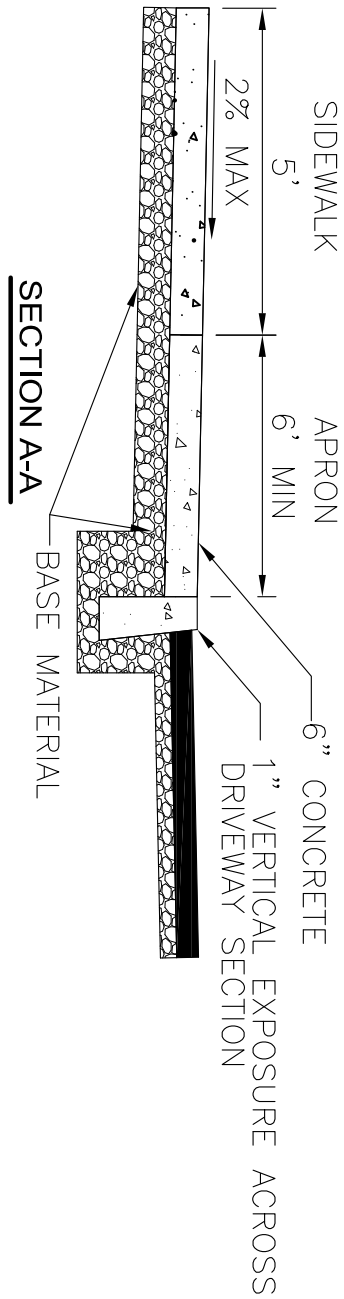
DRIVEWAY DETAIL FOR CURB & GUTTER

ST. 11



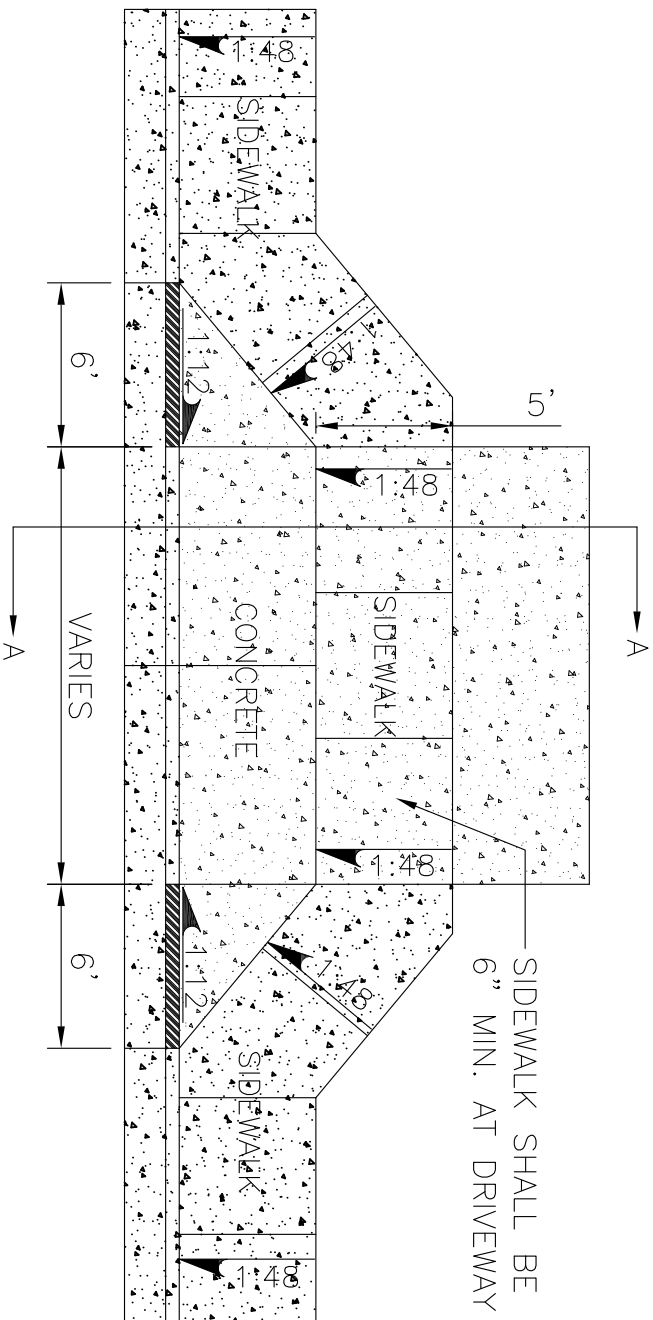
1. BASE MATERIAL SHALL BE CRUSHED GRAVEL, - 3/4" DIAMETER COMPACTED TO 95% MAX DRY DENSITY (+/- 3% OPTIMUM MOISTURE) PER AASHTO T-99.

2. CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28 DAY STRENGTH OF 4000 PSI, 6% +/- 1.5% AIR ENTRAINMENT, AND A MAXIMUM SLUMP OF 4"

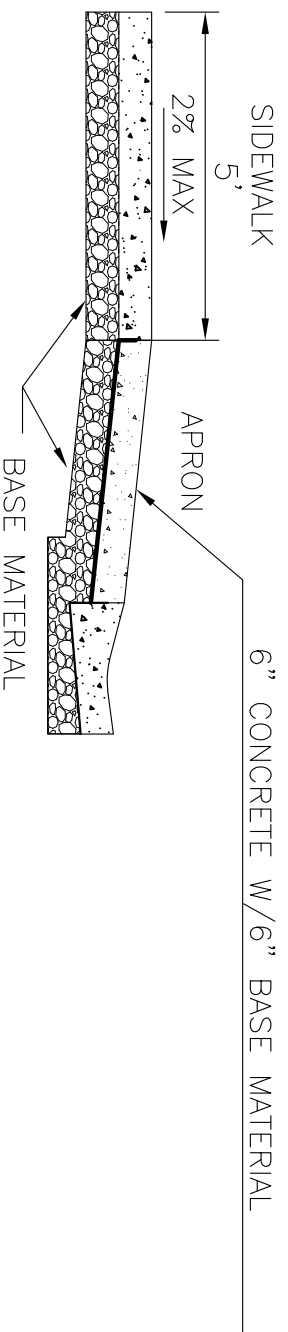


DRIVEWAY DETAIL FOR STRAIGHT CURB

ST.12



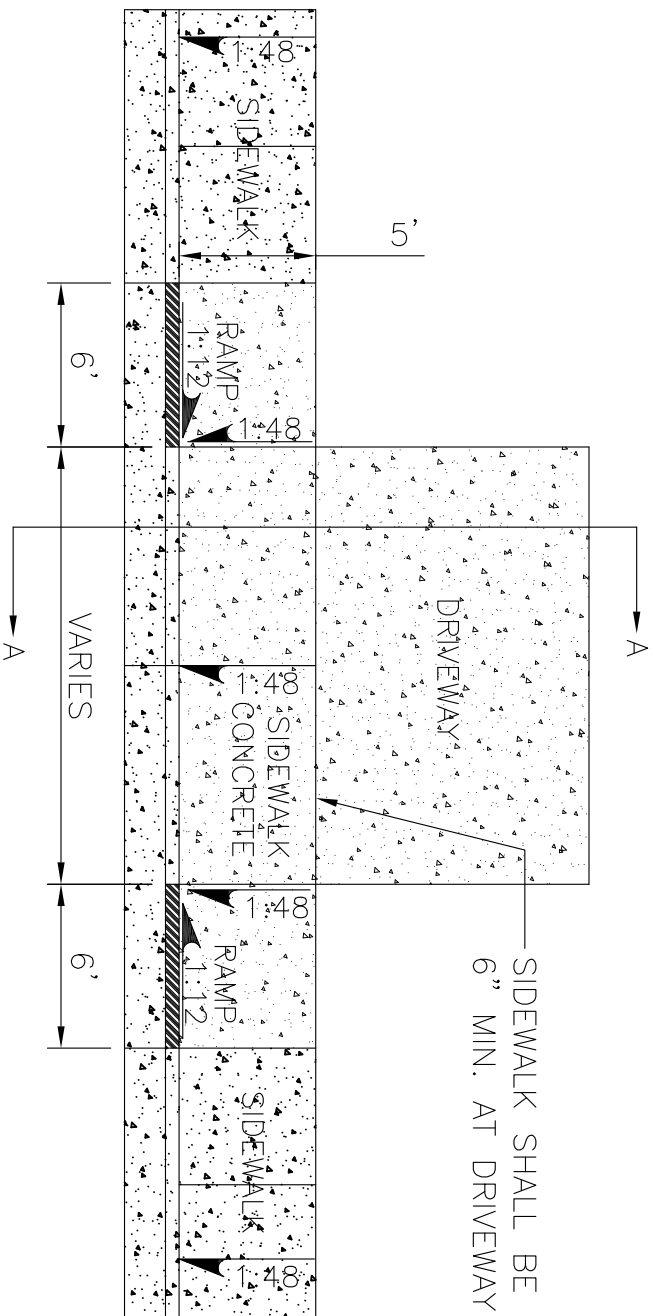
1. BASE MATERIAL SHALL BE CRUSHED GRAVEL, -3/4" DIAMETER COMPACTED TO 95% DENSITY (+/- 3% OPTIMUM MOISTURE) PER AASHTO T-99.
2. CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28-DAY STRENGTH OF 4000 PSI, 6% +/- 1 1/2% AIR ENTRANEMENT, AND MAXIMUM SLUMP OF 4"



SECTION A-A

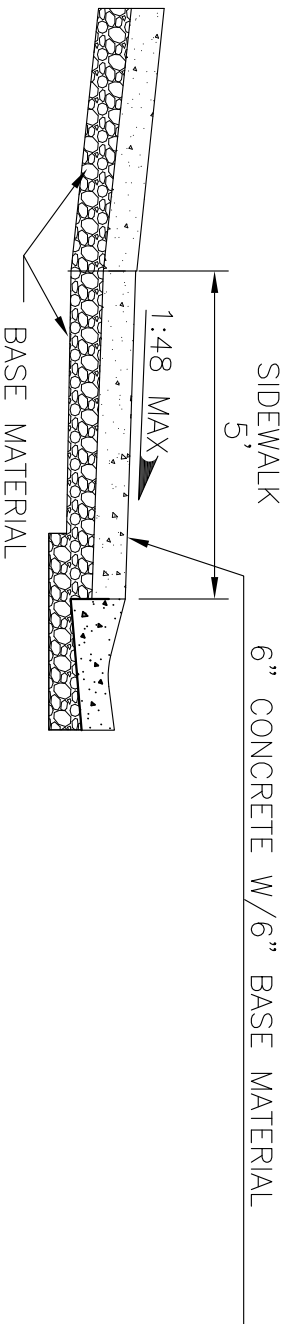
DRIVEWAY DETAIL SIDEWALK AT CURRB ALT 1

ST. 13



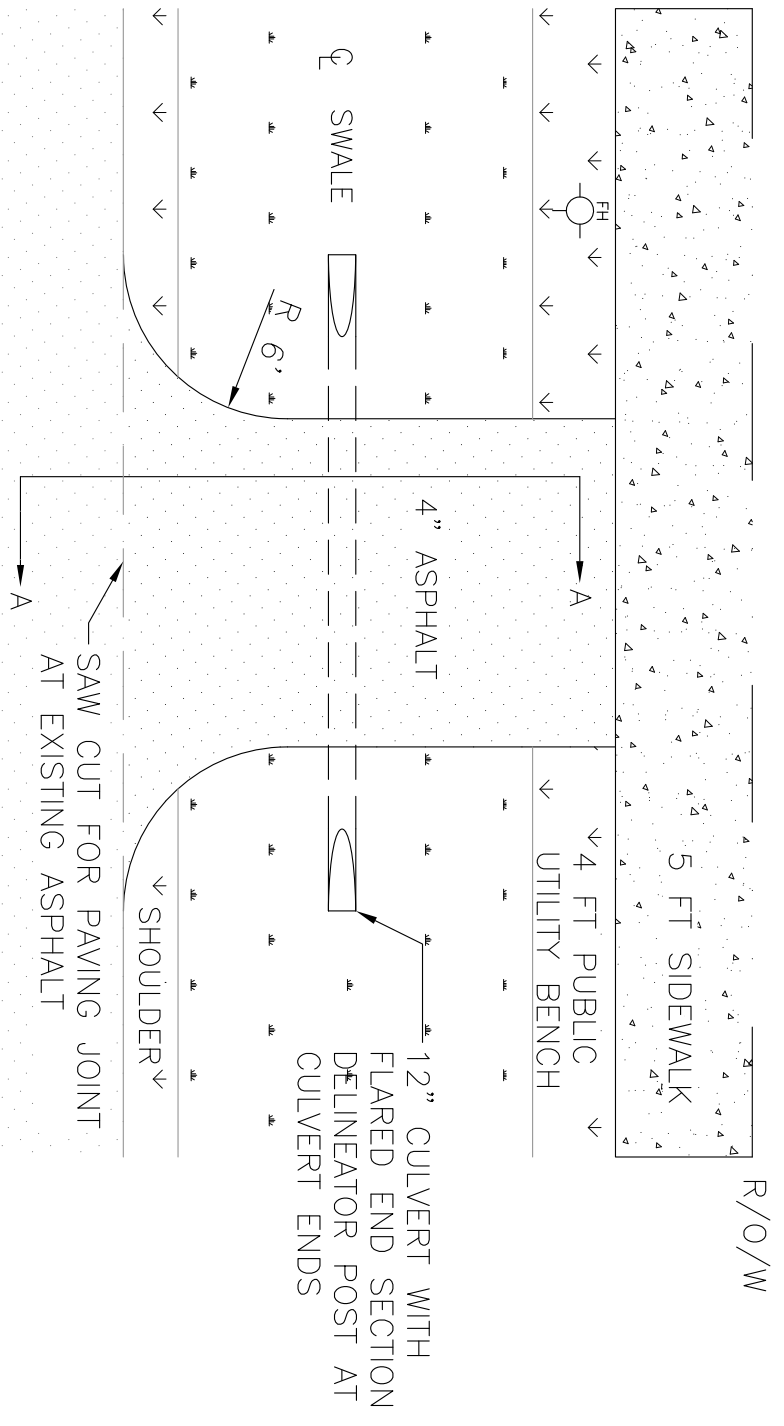
SIDEWALK SHALL BE 6" MIN. AT DRIVEWAY

1. BASE MATERIAL SHALL BE CRUSHED GRAVEL, -3/4" DIAMETER COMPACTED TO 95% DENSITY (+/- 3% OPTIMUM MOISTURE) PER AASHTO T-99.
2. CONCRETE SHALL BE M-4000 WITH 3/4" MAXIMUM AGGREGATE, MINIMUM 28-DAY STRENGTH OF 4000 PSI, 6% +/- 1 1/2% AIR ENTRAINMENT, AND MAXIMUM SLUMP OF 4"

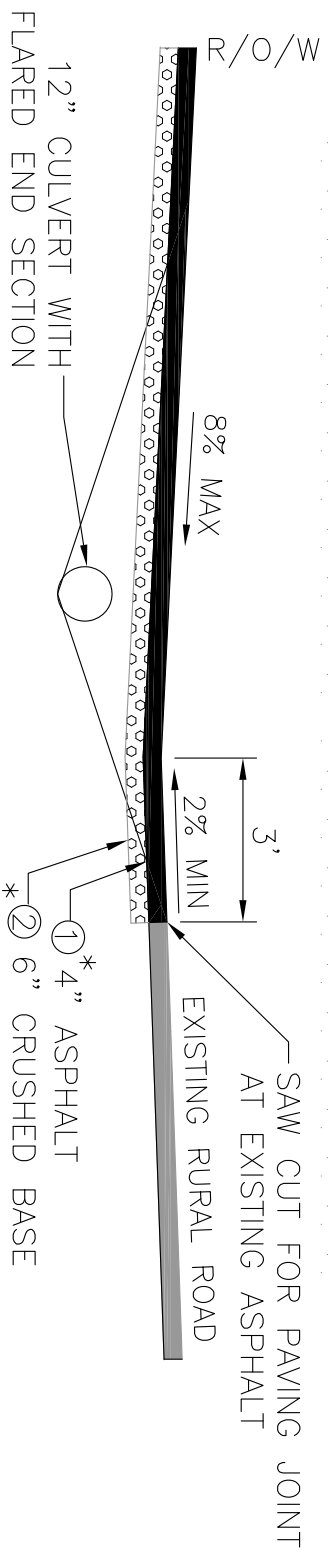


ST.14

DRIVEWAY DETAIL SIDEWALK AT CURB ALT 2



R/O/W



⊛ SEE ROAD CONSTRUCTION GENERAL NOTES FOR MATERIAL SPECIFICATIONS

SECTION A-A

DRIVEWAY DETAIL FOR RURAL ROAD

ST.15

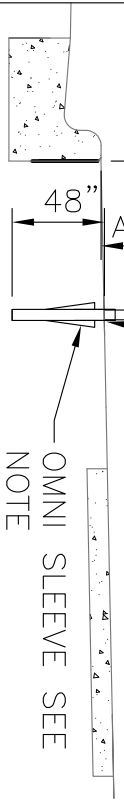
24" MINIMUM BACK OF CURB TO EDGE OF SIGN IN URBAN AREAS. IN RURAL AREAS MINIMUM EDGE OF PAVEMENT TO EDGE OF SIGN. SIGN HEIGHT IN RURAL AREAS SHALL BE MEASURED FROM EDGE OF PAVEMENT

'STOP' SIGN SIZED PER MUTCD (MIN. 30")

AS SPECIFIED PER MUTCD
7' MINIMUM HEIGHT

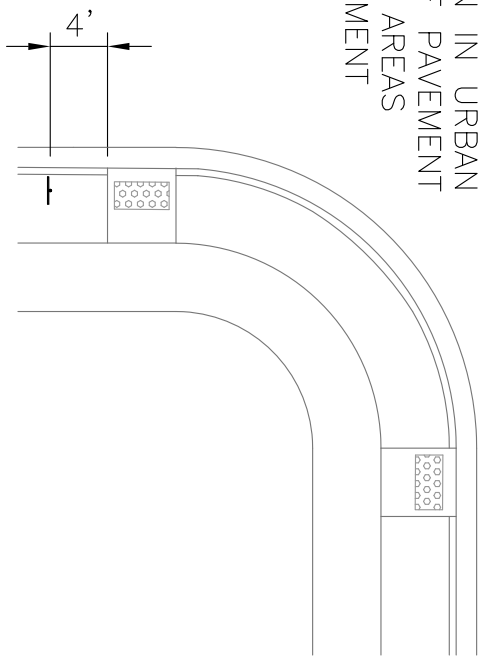
2" GALVANIZED 12 GA PSST*

2 1/4" GALVANIZED 12 GA PSST CONNECTION MEETING MDT BREAKAWAY REQUIREMENTS. EMBED 4" WITH 2" EXPOSED. PROVIDE 2.5" GALVANIZED NON-PERFORATED SLEEVE FOR TOP 18" OF ANCHOR.*



OMNI SLEEVE SEE NOTE

* SIGNAGE ON STREETS WITH A SPEED LIMIT GREATER THAN 25 MPH SHALL UTILIZE 2.5" GALVANIZED 12 GA PSST FOR THE POLE AND A 3" SQUARE NON-PERFORATED 7 GA TUBE FOR THE ANCHOR SLEEVE. THE SIGN POST SHALL BE CONNECTED TO THE ANCHOR SLEEVE USING A TRIANGULAR SLIP BASE ASSEMBLY INSTALLED PER THE MANUFACTURER RECOMMENDATIONS. SHIM AS REQUIRED PER MANUFACTURER RECOMMENDATION TO TAKE UP TOLERANCE BETWEEN SLIP BASE STUB AND ANCHOR SLEEVE.



ALL STREET NAME SIGNS SHALL BE 0.125 GAUGE FLAT ALUMINUM STOCK. ALL OTHER SIGN BLANKS SHALL BE 0.080 GAUGE FLAT ALUMINUM STOCK.

STREET NAME SIGN BLANKS SHALL BE 9" IN HEIGHT. LENGTH SHALL BE DETERMINED BY THE STREET NAME. CORNER RADIUS SHALL BE 1.5"

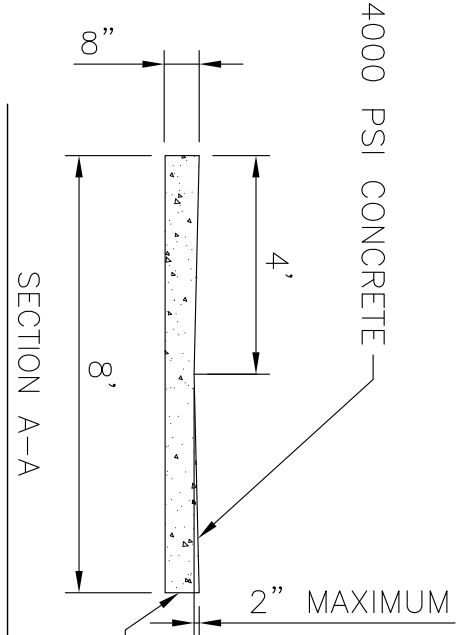
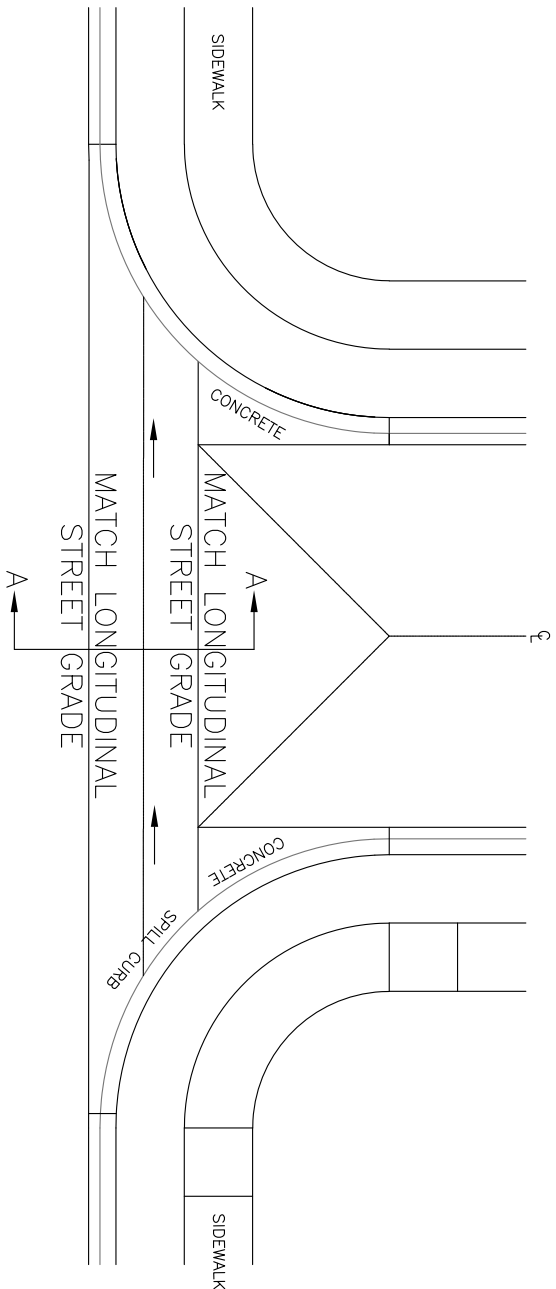
STREET SIGN SHALL BE WHITE ON GREEN ACCORDING TO MUTCD WITH 1/2" WHITE BORDER. LETTERING SHALL BE 6" HIGH IN CAPITAL LETTERS. PREFIX & SUFFIX SHALL BE 4". LETTERING SHALL BE HWY B FONT.

ALL SIGN FACES SHALL BE 3M HIGH INTENSITY DIAMOND GRADE REFLECTIVE SHEETING OR APPROVED EQUAL.

STREET NAME SIGNS SHALL BE ATTACHED TO THE TOP OF THE SIGN POST WITH A SQUARE CAP SIGN HOLDER WITH A 12" LONG MOUNTING BRACKET. A 12" LONG 90° CROSSPIECE SHALL BE USED FOR DUAL SIGN APPLICATIONS.

INSTALL 2 1/2" x 18" x 12GA. OMNI SLEEVE IN UNDISTURBED AREAS. IN DISTURBED AREAS ENCASE POST WITH A MINIMUM OF 18" DIAMETER BY 24" LONG CONCRETE BASE.

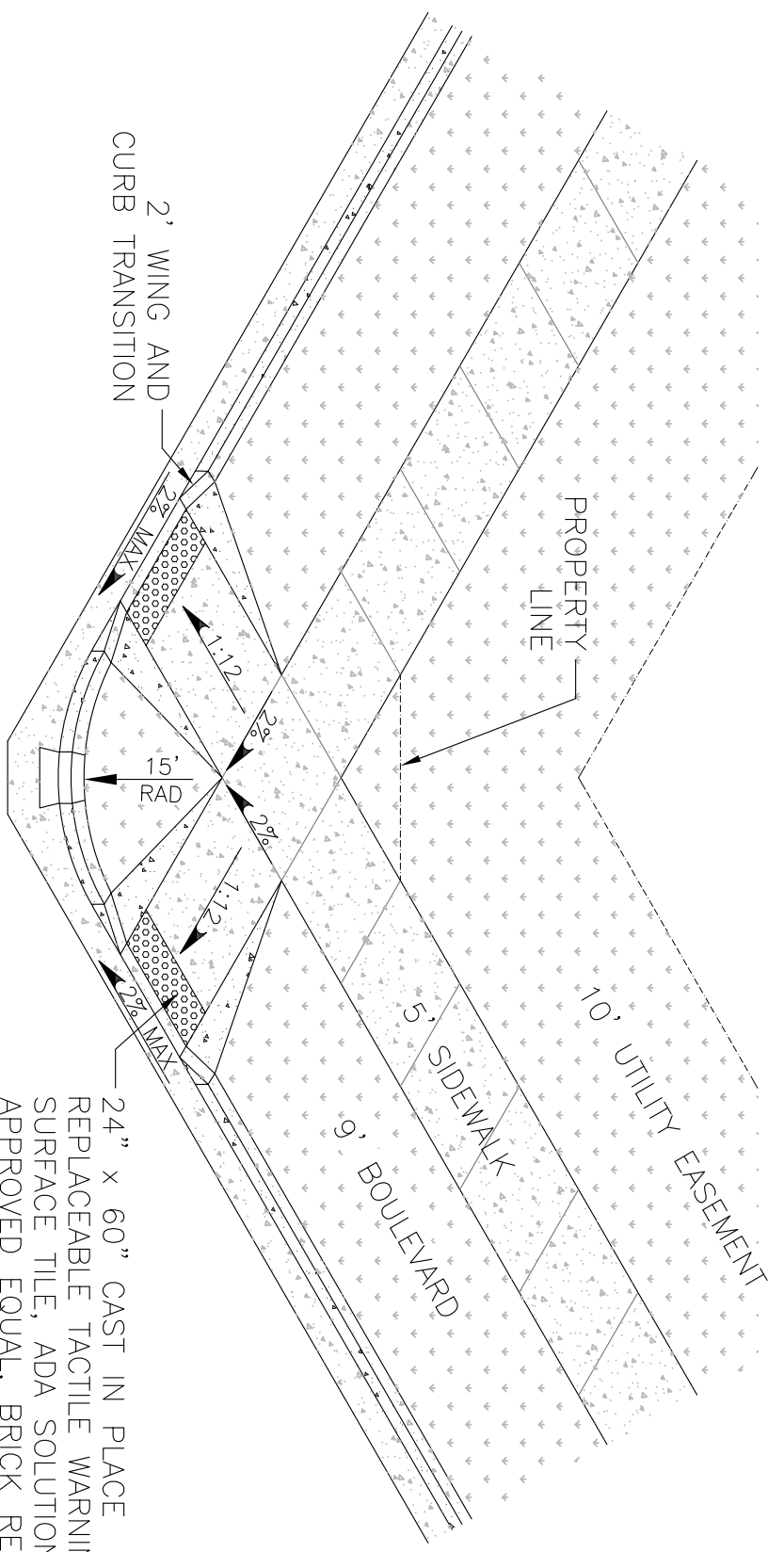
STANDARD STREET SIGN DETAIL



REINFORCED WITH 10/10 6x6 WWF
SUPPORTED WITH #3 REINFORCING BARS AT
48" ON CENTER EACH WAY ON 3" CHAIRS

STREET INTERSECTION GUTTER DETAIL

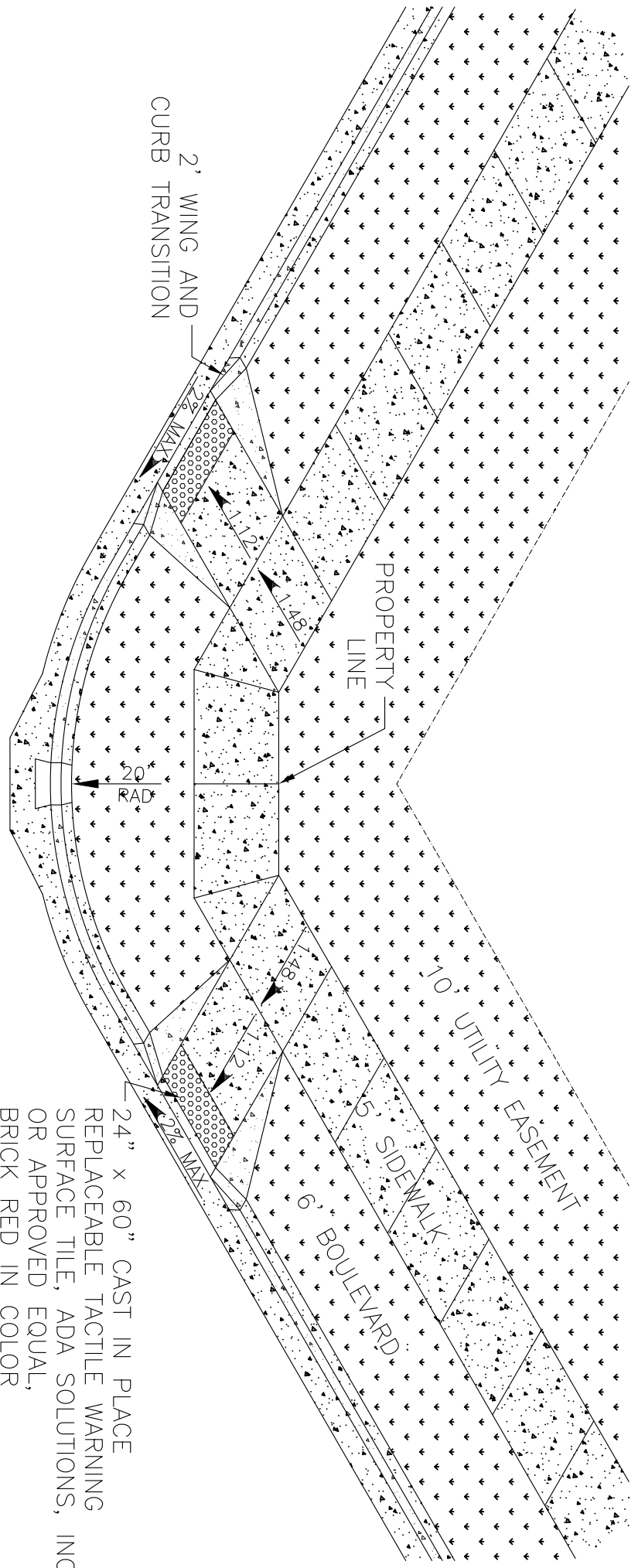
ST.17



1. PEDESTRIAN RAMPS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT/ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
2. THE LEAST POSSIBLE SLOPE SHALL BE USED FOR PEDESTRIAN RAMPS. THE MAXIMUM SLOPE SHALL BE 1:12 (8.33%).
3. THE CROSS SLOPE SHALL BE NO GREATER THAN 1:48 (2%).
4. A LANDING AREA THE WIDTH OF THE RAMP AND AT LEAST 36 INCHES IN LENGTH SHALL BE PROVIDED AT THE TOP OF THE RAMP. SLOPE OF THE LANDING SHALL NOT EXCEED 1:48 (2%) IN ALL DIRECTIONS.
5. ALTERNATE DESIGNS AND LOCATIONS SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT/ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AND SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO START OF CONSTRUCTION.
6. PEDESTRIAN RAMPS SHALL BE A MINIMUM OF 60 INCHES WIDE.

TYPICAL PEDESTRIAN RAMP DETAIL

ST.18

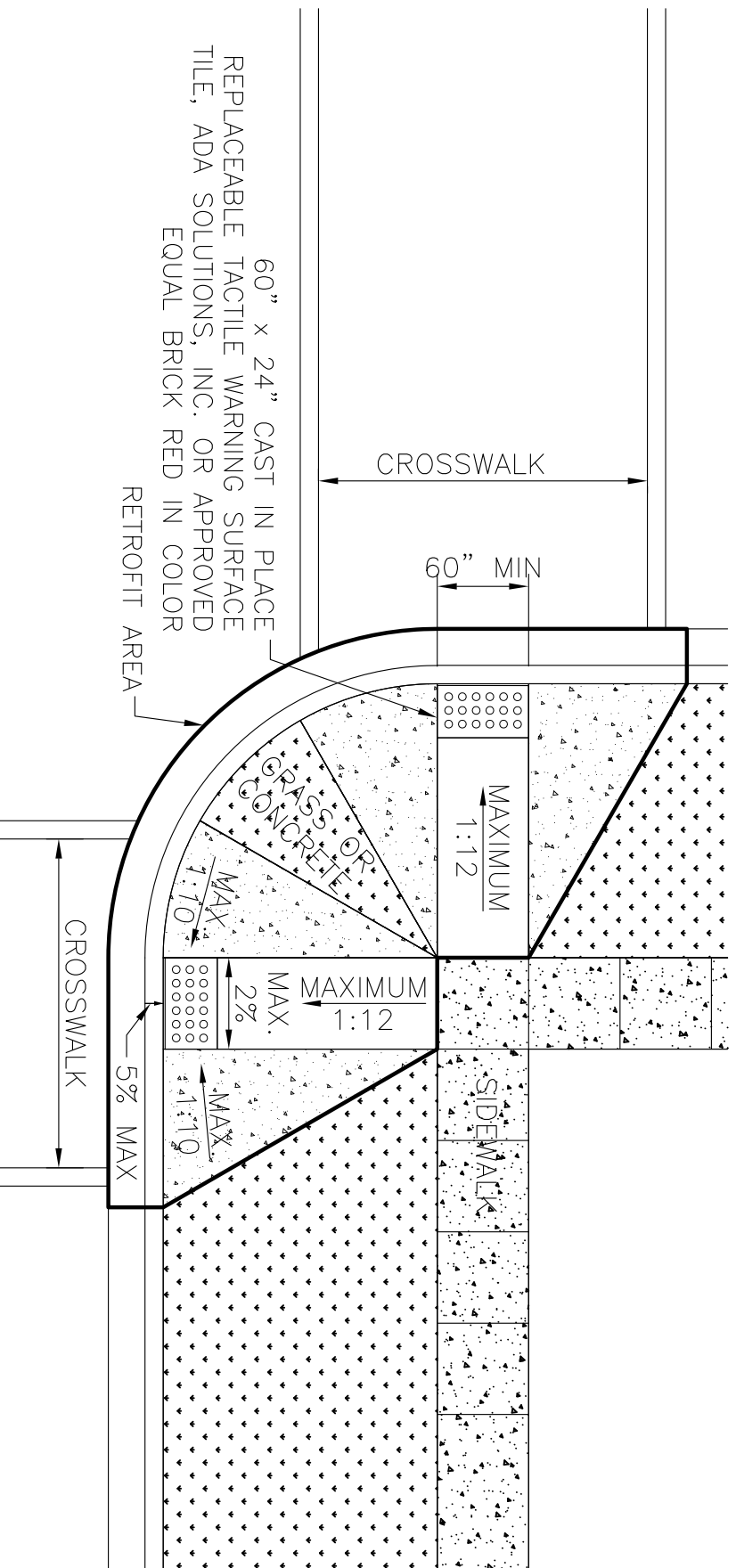


24" x 60" CAST IN PLACE
 REPLACEABLE TACTILE WARNING
 SURFACE TILE, ADA SOLUTIONS, INC
 OR APPROVED EQUAL,
 BRICK RED IN COLOR

1. PEDESTRIAN RAMPS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT/ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
2. THE LEAST POSSIBLE SLOPE SHALL BE USED FOR PEDESTRIAN RAMPS. THE MAXIMUM SLOPE SHALL BE 1:12 (8.33%).
3. THE CROSS SLOPE SHALL BE NO GREATER THAN 1:48 (2%).
4. A LANDING AREA THE WIDTH OF THE RAMP AND AT LEAST 36 INCHES IN LENGTH SHALL BE PROVIDED AT THE TOP OF THE RAMP. SLOPE OF THE LANDING SHALL NOT EXCEED 1:48 (2%) IN ALL DIRECTIONS.
5. ALTERNATE DESIGNS AND LOCATIONS SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT/ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AND SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO START OF CONSTRUCTION.
6. PEDESTRIAN RAMPS SHALL BE A MINIMUM OF 60 INCHES WIDE.

ST.19

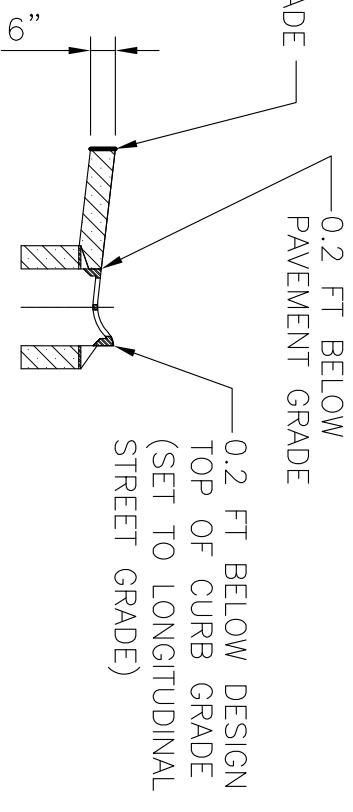
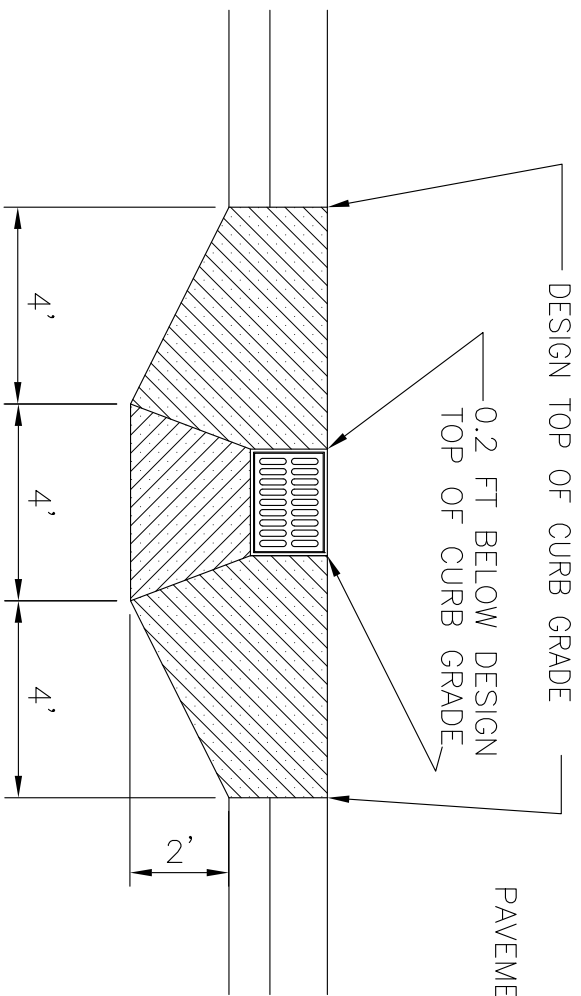
TYPICAL COLLECTOR PEDESTRIAN RAMP DETAIL



1. PEDESTRIAN RAMPS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT/ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
2. THE LEAST POSSIBLE SLOPE SHALL BE USED FOR PEDESTRIAN RAMPS. THE MAXIMUM SLOPE SHALL BE 1:12 (8.33%).
3. THE CROSS SLOPE SHALL BE NO GREATER THAN 1:48 (2%).
4. A LANDING AREA THE WIDTH OF THE RAMP AND AT LEAST 36 INCHES IN LENGTH SHALL BE PROVIDED AT THE TOP OF THE RAMP. SLOPE OF THE LANDING SHALL NOT EXCEED 1:48 (2%) IN ALL DIRECTIONS.
5. IN INSTANCES WHEN IT WILL BE TECHNICALLY INFEASIBLE FOR A PEDESTRIAN RAMP TO BE CONSTRUCTED TO FULL AND STRICT COMPLIANCE WITH ADA STANDARDS, THE PEDESTRIAN RAMP MUST BE INSTALLED TO PROVIDE ACCESSIBILITY TO THE MAXIMUM EXTENT FEASIBLE. ALTERNATIVE DESIGNS SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.
6. PEDESTRIAN RAMPS SHALL BE A MINIMUM OF 60 INCHES WIDE.

ST.20

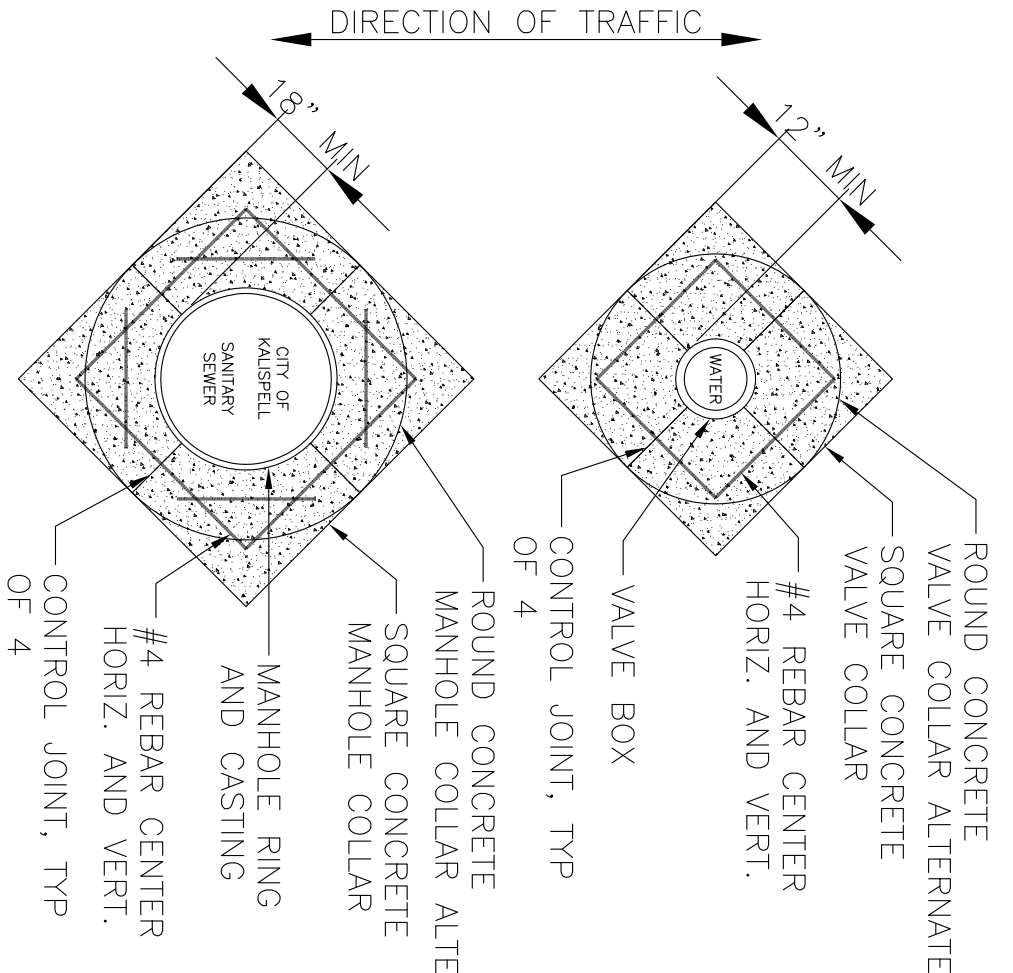
RETROFIT PEDESTRIAN RAMP DETAIL



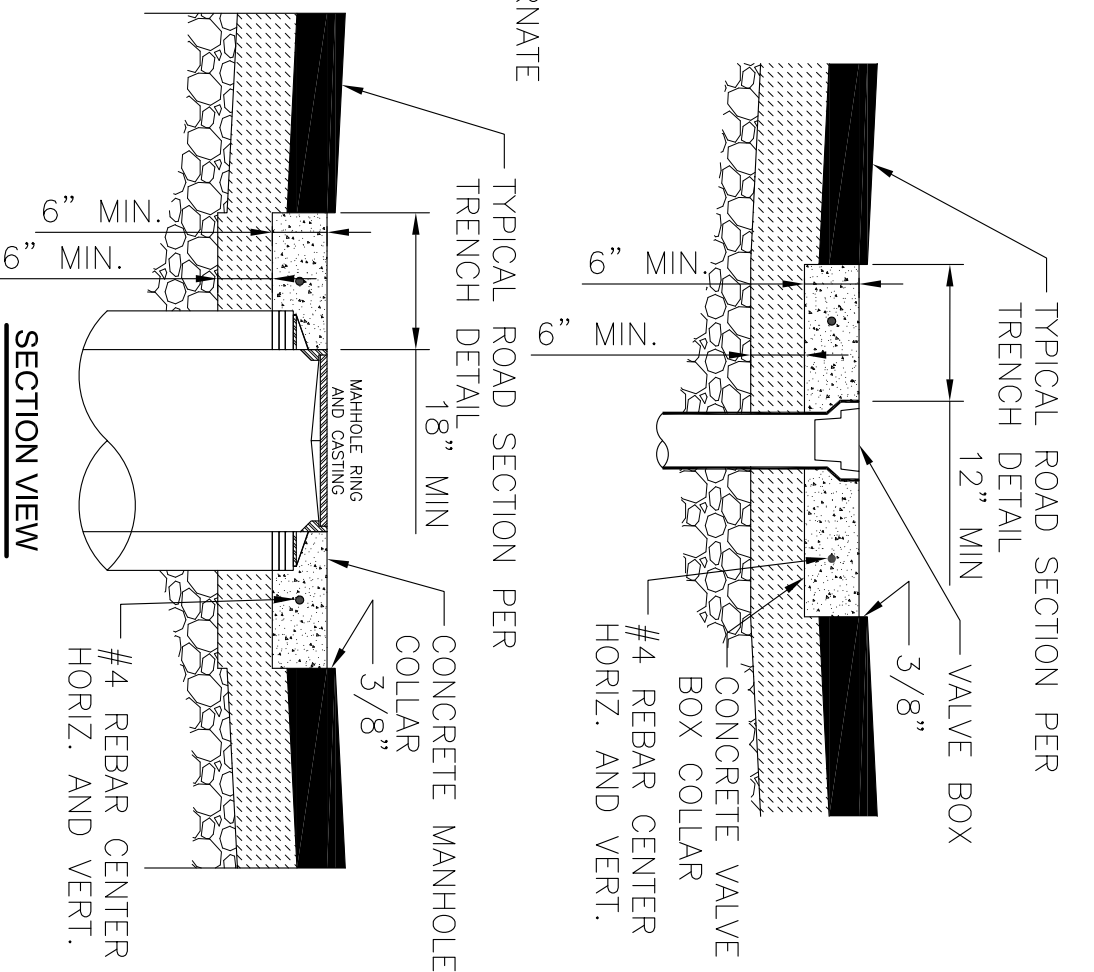
1. REINFORCE CONCRETE WITH 10/10 6 X 6 WWF SUPPORTED WITH #3 REINFORCING BARS AT 48" ON CENTER EACH WAY ON 3" HIGH CHAIRS
2. CONSTRUCT PRIOR TO PAVING.

ST.21

CONCRETE CURB INLET APRON DETAIL



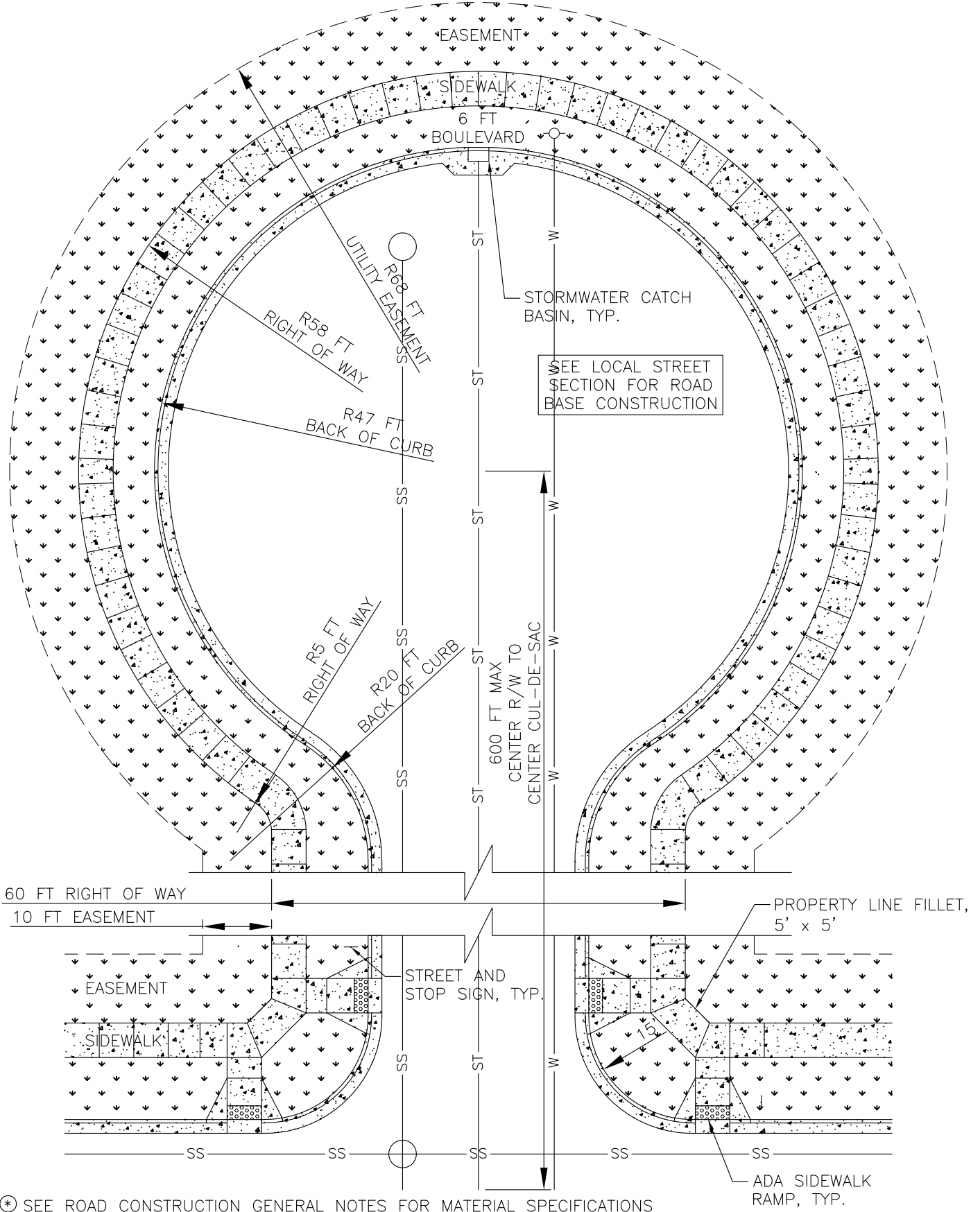
PLAN VIEW



SECTION VIEW

- NOTE:**
1. ALL VISIBLE EDGES AND JOINTS SHALL BE ROUNDED WITH A 1/4" RADIUS EDGING TOOL.
 2. CONCRETE SHALL BE M-4000 WITH 3/4" MAX. AGGREGATE, MIN. 28 DAY STRENGTH OF 4000 PSI, 6% +/- 1.5% AIR ENTRAINMENT AND MAX SLUMP OF 4".
 3. ALL JOINTS SHALL BE SAW CUT.

CONCRETE COLLAR DETAILS



⊛ SEE ROAD CONSTRUCTION GENERAL NOTES FOR MATERIAL SPECIFICATIONS

UTILITY NOTE:

ALL NEW UTILITIES SHALL BE PLACED UNDERGROUND. EXCEPT FOR SEWER AND WATER, UNDERGROUND UTILITIES, IF PLACED IN RIGHT OF WAY OR EASEMENT SHALL BE LOCATED BETWEEN THE BACK OF SIDEWALK AND EASEMENT LINE. NO UNDERGROUND UTILITIES SHALL BE PLACED IN THE BOULEVARD BETWEEN THE BACK OF CURB AND SIDEWALK.