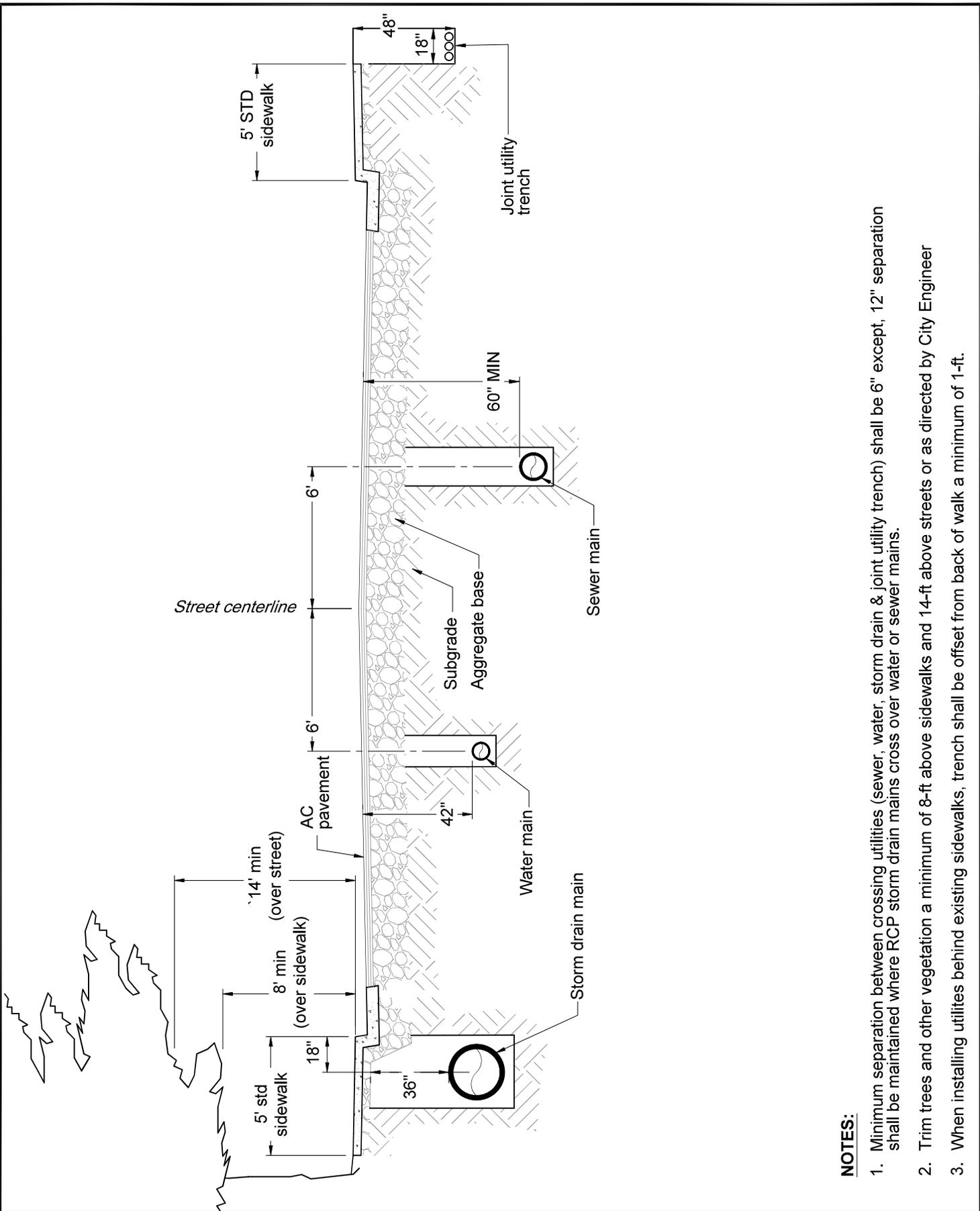


# HEALDSBURG PUBLIC WORKS STANDARDS

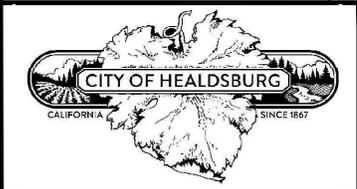
## Index of Standard Details

STREETS	STANDARD #	TITLE
	ST01	Public Utilities (typical location)
	ST02	Street (typical cross section)
	ST03	Curb, Gutter and Sidewalk
	ST04	Residential Drive Approach (Low speed/volume road)
	ST05	Commercial Drive Approach (Residential high volume/speed)
	ST06	Drive Approach (Alternative Design for residential/commercial)
	ST07	Curb Ramp (type "A")
	ST08	Curb Ramp (type "B")
	ST09	Curb Ramp (type "C")
	ST10	Valley Gutter
	ST11.1	Trench (backfill and resurfacing)
	ST11.2	Trench (backfill and resurfacing)
	ST12	Survey Monument
	ST13	Street Sign (typical location)
	ST14	Street Sign (post and sleeve installation)
	ST15	Street Sign (street name)
	ST16	Private Street Sign (street name)
	ST17	Street Sign (advance street name)
	ST18	Street Sign (mast arm mounted)
	ST19	Street Barricade
	ST20	Sidewalk Barricade
	ST21	Sidewalk Obstruction
	ST22	Bollard
	ST23	Stop Bar and Stop Legend



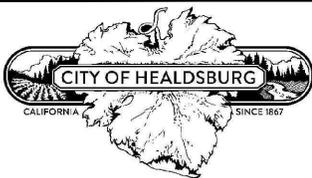
**NOTES:**

1. Minimum separation between crossing utilities (sewer, water, storm drain & joint utility trench) shall be 6" except, 12" separation shall be maintained where RCP storm drain mains cross over water or sewer mains.
2. Trim trees and other vegetation a minimum of 8-ft above sidewalks and 14-ft above streets or as directed by City Engineer
3. When installing utilities behind existing sidewalks, trench shall be offset from back of walk a minimum of 1-ft.



<b>PUBLIC UTILITIES</b>		
Typical Location		
SCALE: NONE	APPROVED: <i>Larry Zimmer</i> Director of Public Works Larry Zimmer	DATE: June 2024

STANDARD DETAIL  
**ST01**



# STREET Typical Cross Section

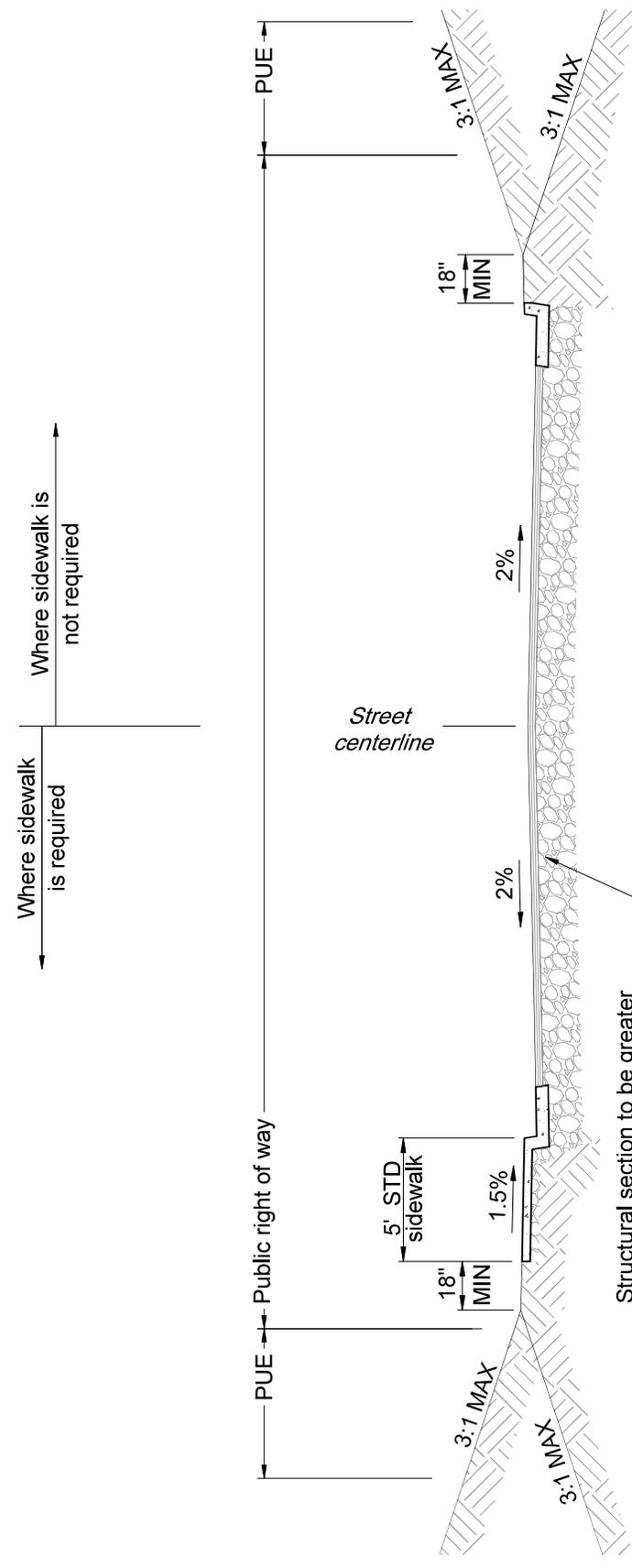
STANDARD DETAIL

## ST02

SCALE: NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June 2024



Structural section to be greater than specified in the table if recommended by the project Geotechnical Engineer. Minimum section to be per section 3 of Engineering Design Standards as determined by the roadway classification

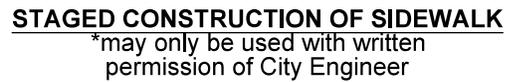
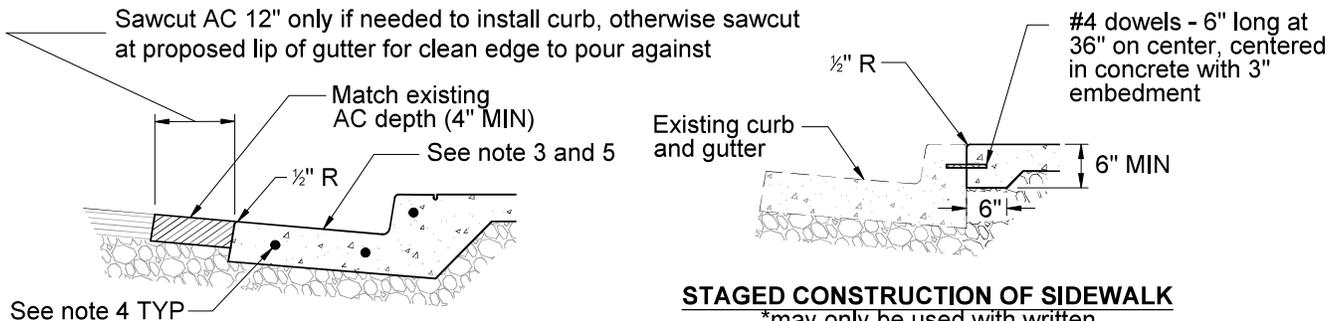
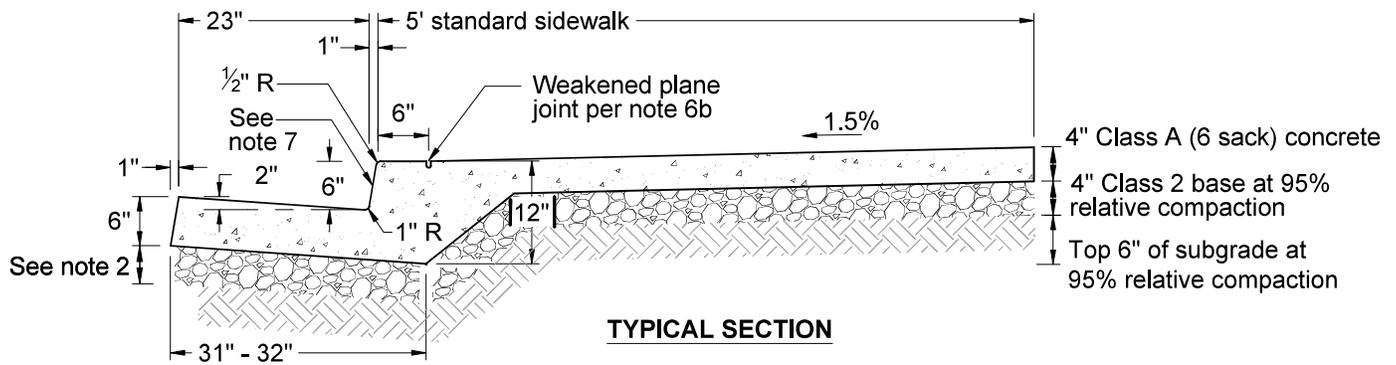
### ROADWAY STRUCTURAL SECTIONS

Road Class	Traffic Index	Standard Pavement Section
Arterial	9	0.45 AC / 1.9 AB
Collector	8	0.4 AC / 1.7 AB
Residential	7	0.35 AC / 1.5 AB
Industrial	9	0.45 AC / 1.9 AB
Hillside	7	0.35 AC / 1.5 AB

\*Or match existing section, whichever is greater. Road Classifications can be found in the Transportation Element of the Healdsburg General Plan

### NOTES

- Street, public right of way and public utility easement (PUE) widths shall be as specified in the general plan, specific plan or approved tentative map.
- The structural section on this detail and provided in section 3 of the Engineering Design Standards represents the minimum structural section allowed. A thicker structural section will be required if specified in the geotechnical study.



**NOTES:**

1. Curb, gutter and sidewalk shall be poured monolithically. Separated sidewalk with a landscape strip between back of curb and sidewalk may be used with approval of the City Engineer.
2. Class 2 aggregate base at 95% compaction. a minimum of 6-inches thick, shall extend under curb and gutter.
3. Where sidewalk and/or curb and gutter are to be removed or repaired, the concrete shall be removed by saw cutting its full depth at the nearest score mark or joint. When the area of work is less than 5 feet from any joint or crack, the removal shall be extended to nearest joint or crack.
4. Install three #4 dowels - 6" long, centered in concrete curb and gutter with 3" embedment to secure to adjacent curb and gutter.
5. Where the existing AC pavement surface covers the gutter pan, the replacement curb and gutter shall be installed and broom finished to match the adjacent curb and gutter, and the AC shall be re-installed over the gutter pan to preserve the flow line.
6. Jointing:
  - a. All joints shall be straight and perpendicular to the longitudinal axis of the sidewalk and/or curb.
  - b. Weakened plane joints shall be  $\frac{1}{8}$ " wide and 1" deep in sidewalks and  $\frac{1}{8}$ " wide and  $1\frac{1}{2}$ " deep in curb and gutter, spaced 10' on center and at back of curb. Weakened plane joints in sidewalks shall match joints in the curb and gutter.
  - c. Expansion joint material shall be  $\frac{1}{2}$ " thick premolded joint filler placed through the full thickness of the concrete every 30'. Where pouring up against a cold joint or saw cut, no joint fill shall be used.
  - d. Score marks on sidewalks shall be installed to match adjacent sidewalk with a MAX spacing of every 5'.
  - e. Sidewalks wider than 5 feet shall have a longitudinal score mark installed along the center of the sidewalk.
7. Where new curb crosses water and/or sewer laterals or lines, the face of the curb shall be impressed with a 3" tall "W" or "S" symbol, respectively. The "W" and "S" symbols may be checked out from Public Works at the CDC.
8. All exposed surfaces shall have a medium broom finish. Sidewalks and driveways shall be broom finished perpendicular to the longitudinal axis of the sidewalk.
9. Contractor shall be responsible for protecting fresh concrete from damage, regardless of the source. Patching of damaged concrete is not permitted.
10. Longitudinal rebar may be required in sidewalk as determined by the City Engineer.



**CURB, GUTTER and SIDEWALK**

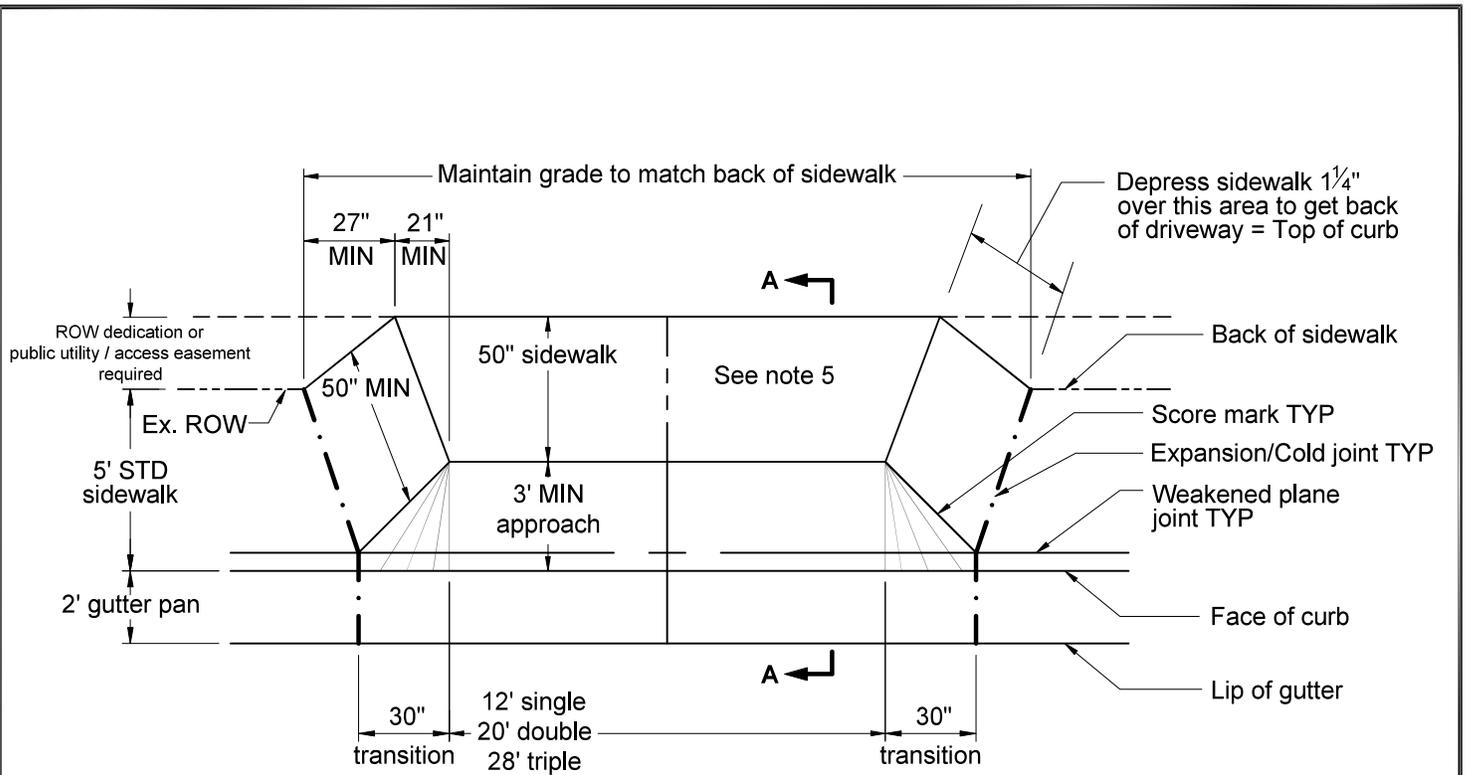
STANDARD DETAIL

**ST03**

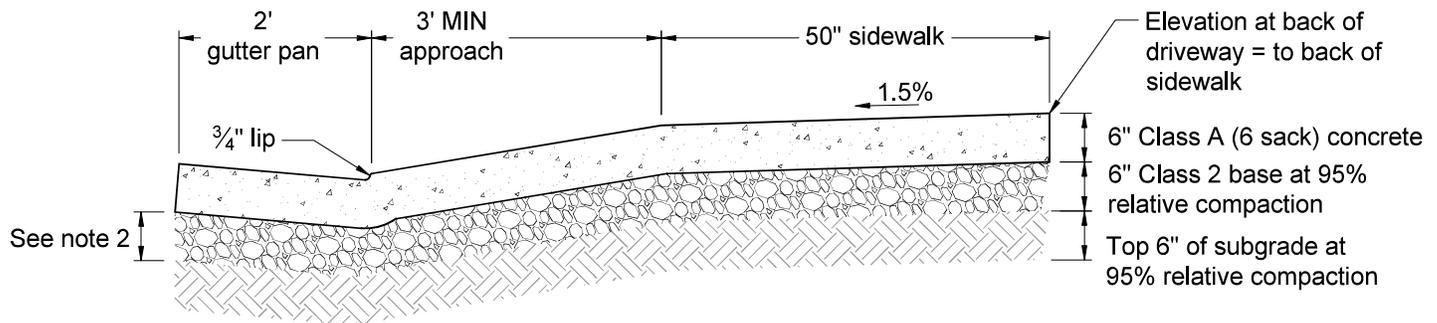
SCALE:  
NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024



**PLAN VIEW**



**SECTION A-A**

- NOTES:**
1. Driveways shall be located a MIN of 2.5' from a property line and a MIN of 5' from a water meter, sewer cleanout, or other utility box, adjacent driveway, sign post, power pole, fire hydrant, etc. (as measured from the top of the driveway transition).
  2. Class 2 aggregate base at 95% compaction, a minimum of 6-inches thick, shall extend under curb and gutter.
  3. The driveway shall be poured monolithically with the curb and gutter.
  4. Jointing (between expansion joints):
    - a. Weakened plane joints shall be installed at 10' MAX spacing and run continuous through the sidewalk, approach and gutter pan.
    - b. Score marks through 50" sidewalk section shall be installed to match adjacent sidewalk with a 5' MAX spacing.
  5. All exposed surfaces shall have a medium broom finish. Sidewalks and driveways shall be broom finished perpendicular to the longitudinal axis of the sidewalk.
  6. Driveways shall be installed perpendicular to the curblines unless otherwise approved by the City Engineer.
  7. See ST03 for additional information.



# RESIDENTIAL DRIVE APPROACH

on Low Speed/Volume Road

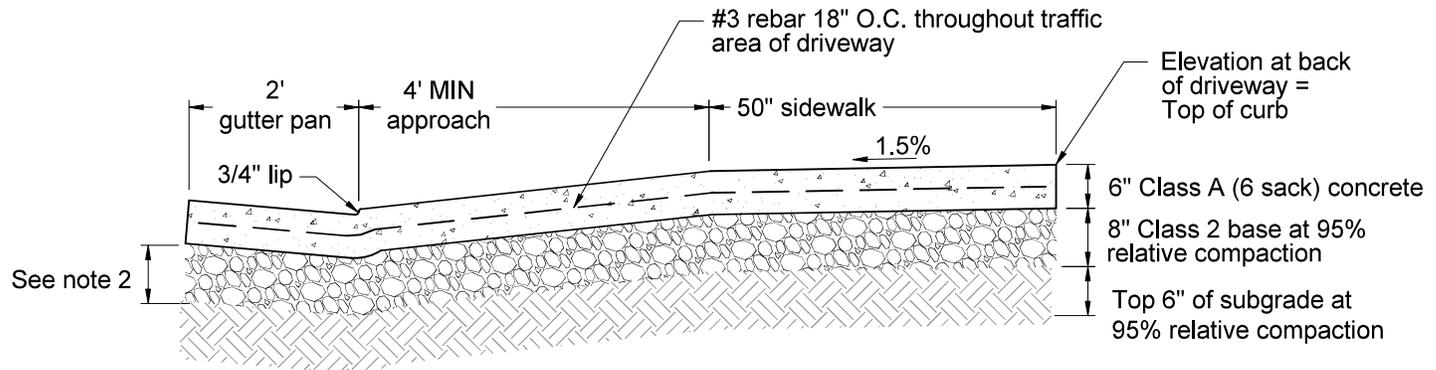
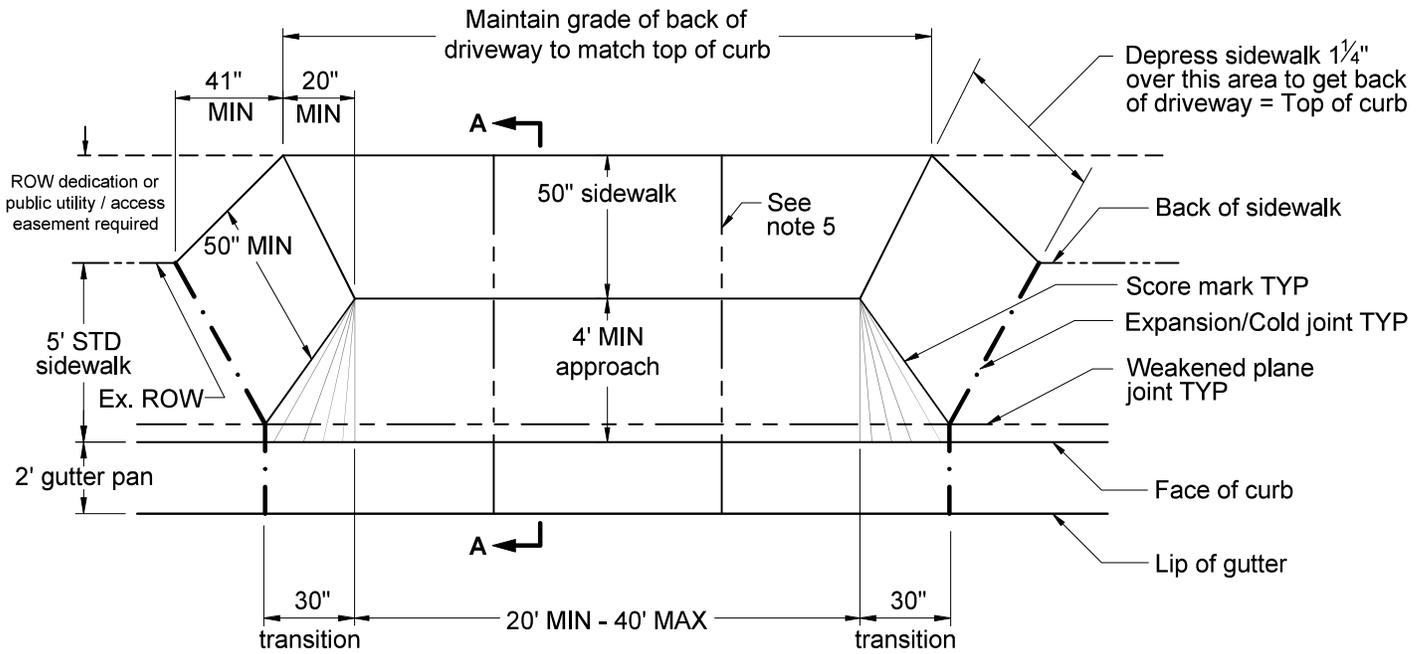
STANDARD DETAIL

## ST04

SCALE:  
NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024



**SECTION A-A**

**NOTES:**

1. Driveways shall be located a MIN of 2.5' from a property line and a MIN of 5' from a water meter, sewer cleanout, or other utility box, adjacent driveway, sign post, power pole, fire hydrant, etc. (as measured from the top of the driveway transition).
2. Class 2 aggregate base at 95% compaction, a minimum of 6-inches thick, shall extend under curb and gutter.
3. The driveway shall be poured monolithically with the curb and gutter.
4. Jointing (between expansion joints):
  - a. Weakened plane joints shall be installed at 10' MAX spacing and run continuous through the sidewalk, approach and gutter pan.
  - b. Score marks through 50" sidewalk section shall be installed to match adjacent sidewalk with a 5' MAX spacing.
5. All exposed surfaces shall have a medium broom finish. Sidewalks and driveways shall be broom finished perpendicular to the longitudinal axis of the sidewalk.
6. Driveways shall be installed perpendicular to the curblines unless otherwise approved by the City Engineer.
7. See ST03 for additional information.



**COMMERCIAL DRIVE APPROACH**  
and Residential Driveway on High Speed/Volume Road

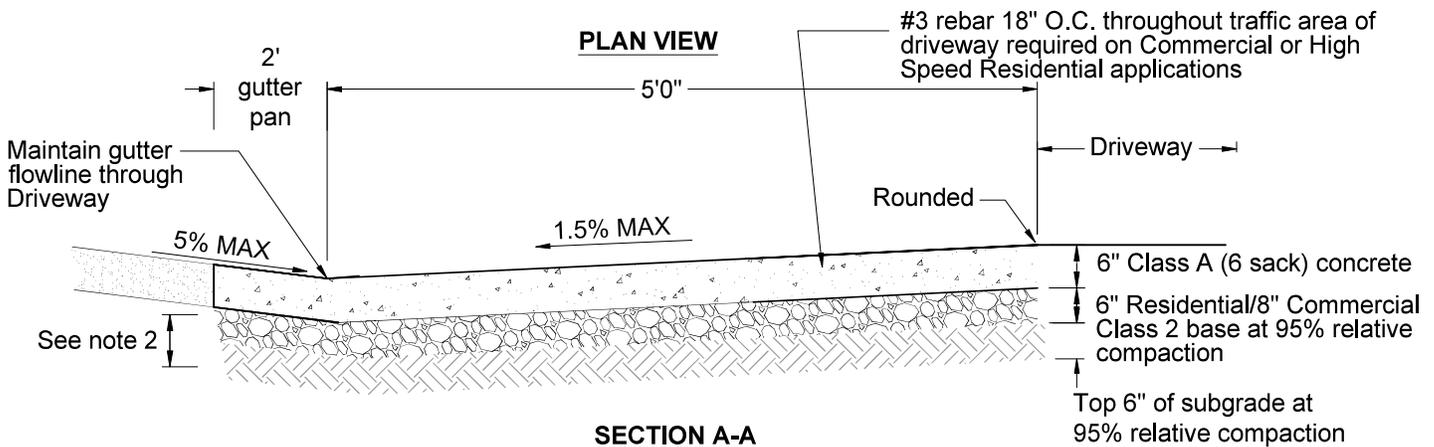
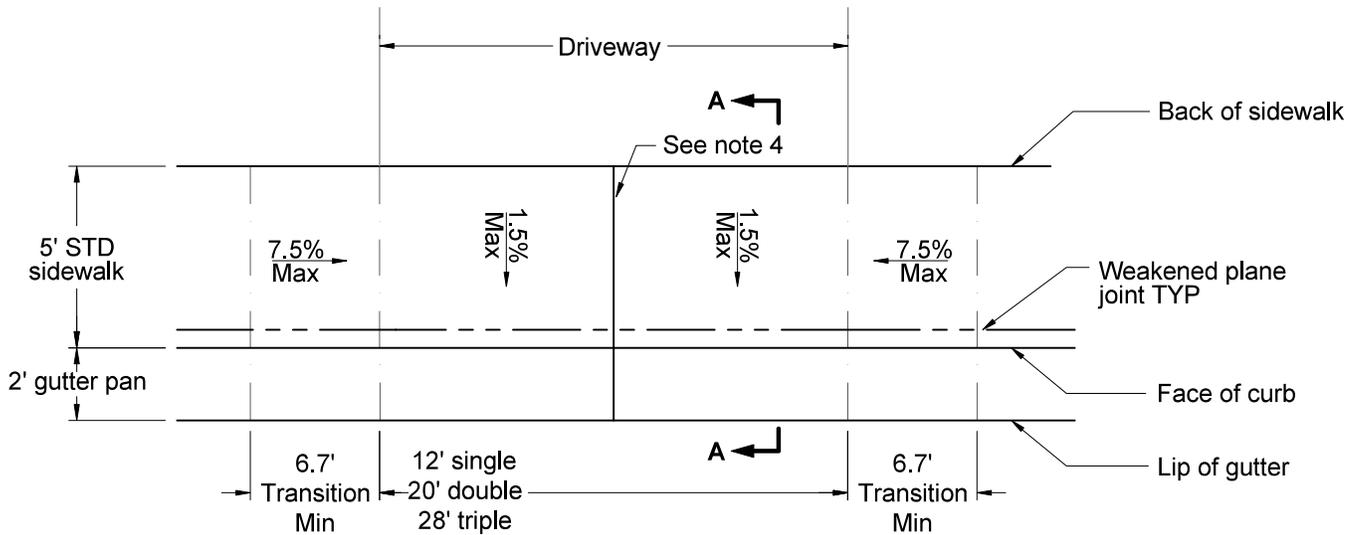
STANDARD DETAIL

**ST05**

SCALE:  
NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024



**NOTES:**

1. Driveways shall be located a MIN of 2.5' from a property line and a MIN of 5' from a water meter, sewer cleanout, or other utility box, adjacent driveway, sign post, power pole, fire hydrant, etc. (as measured from the top of the driveway transition).
2. Class 2 aggregate base at 95% compaction, a minimum of 6-inches thick, shall extend under curb and gutter.
3. The driveway shall be poured monolithically with the curb and gutter.
4. Jointing (between expansion joints):
  - a. Weakened plane joints shall be installed at 10' MAX spacing and run continuous through the sidewalk, approach and gutter pan.
  - b. Score marks through 50" sidewalk section shall be installed to match adjacent sidewalk with a 5' MAX spacing.
5. All exposed surfaces shall have a medium broom finish. Sidewalks and driveways shall be broom finished perpendicular to the longitudinal axis of the sidewalk.
6. Driveways shall be installed perpendicular to the curblines unless otherwise approved by the City Engineer.
7. See ST03 for additional information.
8. This alternate drive approach only allowed with approval from the City Engineer.



# DRIVE APPROACH

## Alternative Design for Residential/Commercial

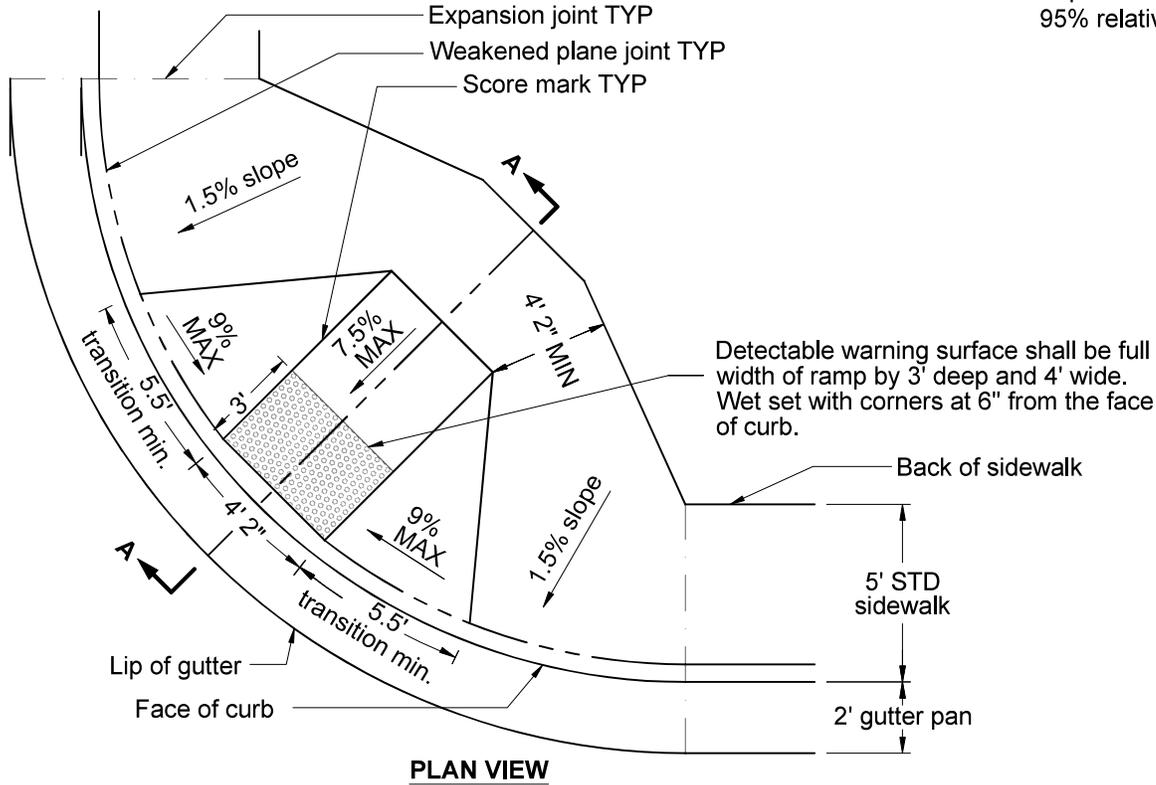
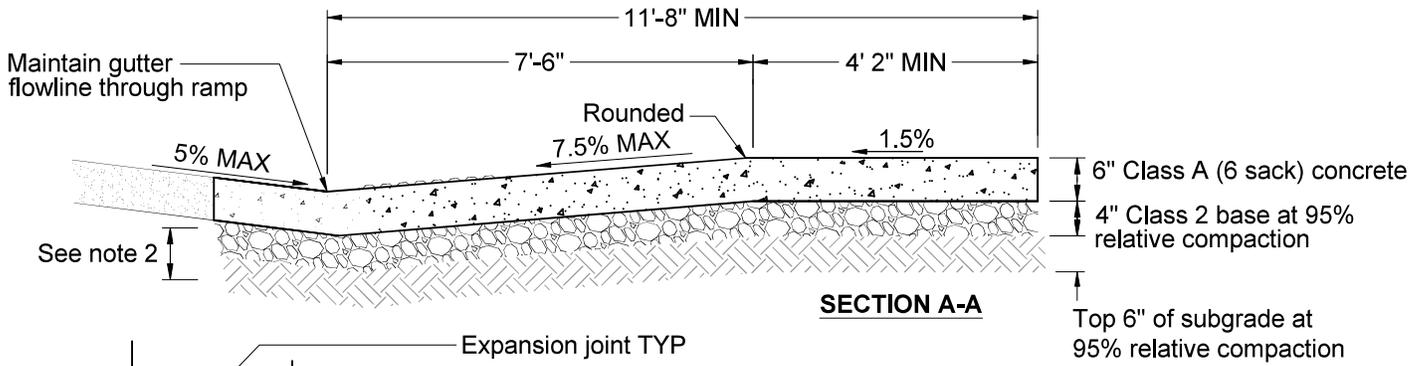
STANDARD DETAIL

# ST06

SCALE:  
NONE

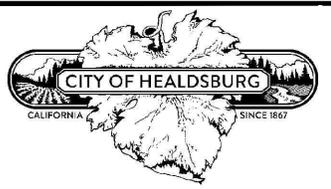
APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024



**NOTES:**

1. All poles, boxes, cabinets and other utilities shall be relocated out of the curb ramp.
2. Class 2 aggregate base at 95% compaction. a minimum of 6-inches thick, shall extend under curb and gutter.
3. The ramp shall be poured monolithically with the curb and gutter.
4. Joint spacing (expansion, weakened plane and score marks) shall be 5' MAX in any direction.
5. Dimensions shown are based on a 6" standard curb height.
6. Transitions from ramps and landing to walks, gutters, or streets shall be flush and free of abrupt changes.
7. All exposed surfaces shall have a medium broom finish. Sidewalks and driveways shall be broom finished perpendicular to the longitudinal axis of the sidewalk.
8. Paint 20' of red curb on intersection approach side (measured from crosswalk, stop bar, or top of curb roll up).



# CURB RAMP

## Type "A"

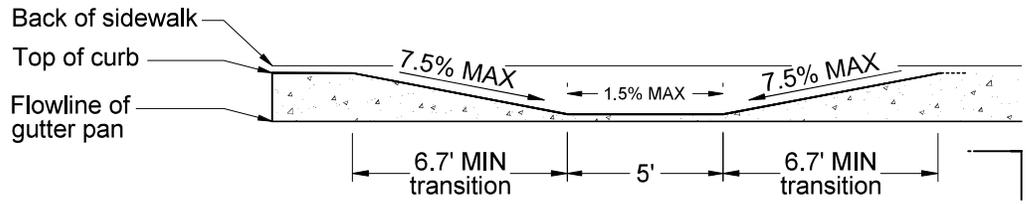
STANDARD DETAIL

# ST07

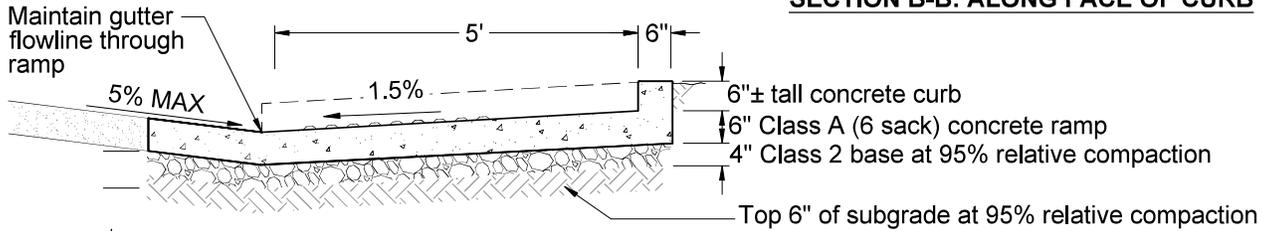
SCALE:  
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APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024

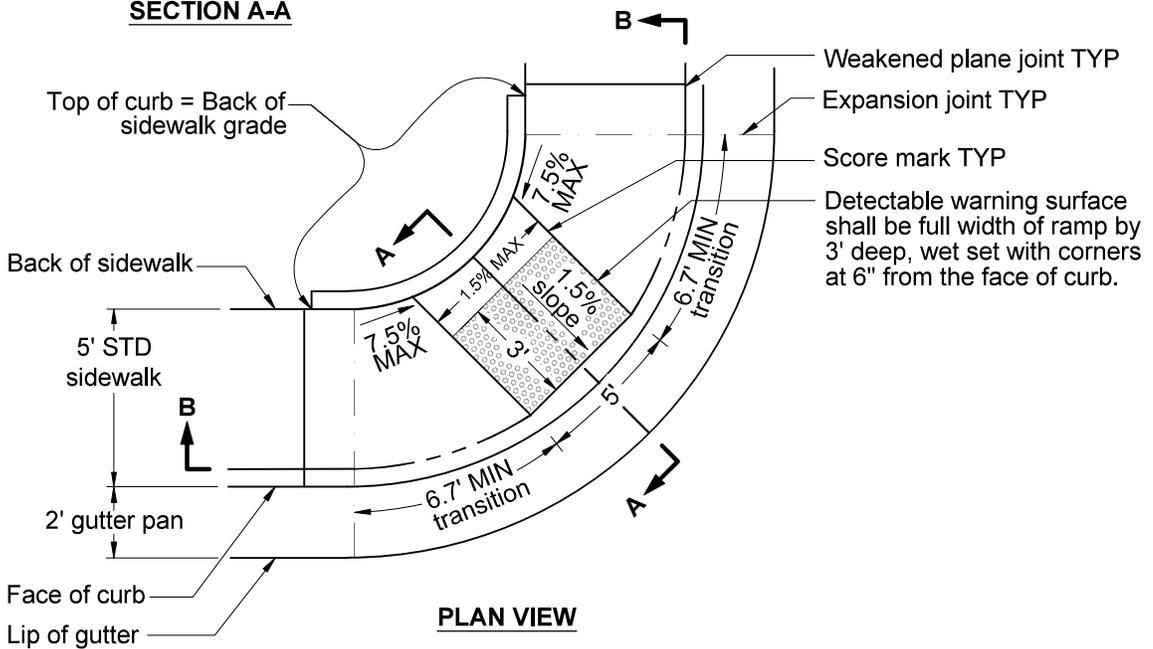


**SECTION B-B: ALONG FACE OF CURB**



See note 3 ↓

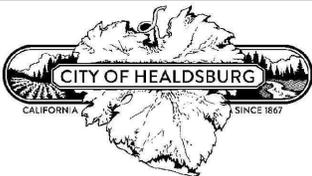
**SECTION A-A**



**PLAN VIEW**

**NOTES:**

1. Type "B" ramps may only be used in situations where a 4' sidewalk cannot be obtained behind the back of the ramp.
2. All poles, boxes, cabinets and other utilities shall be relocated out of the curb ramp.
3. Class 2 aggregate base at 95% compaction. a minimum of 6-inches thick, shall extend under curb and gutter.
4. The ramp shall be poured monolithically with the curb and gutter.
5. Joint spacing (expansion, weakened plane and score marks) shall be 5' MAX in any direction.
6. Dimensions shown are based on a 6" standard curb height.
7. All exposed surfaces shall have a medium broom finish. Sidewalks and driveways shall be broom finished perpendicular to the longitudinal axis of the sidewalk.
8. Paint 20' of red curb on intersection approach side (measured from crosswalk, stop bar, or top of curb roll up).



**CURB RAMP**  
Type "B"

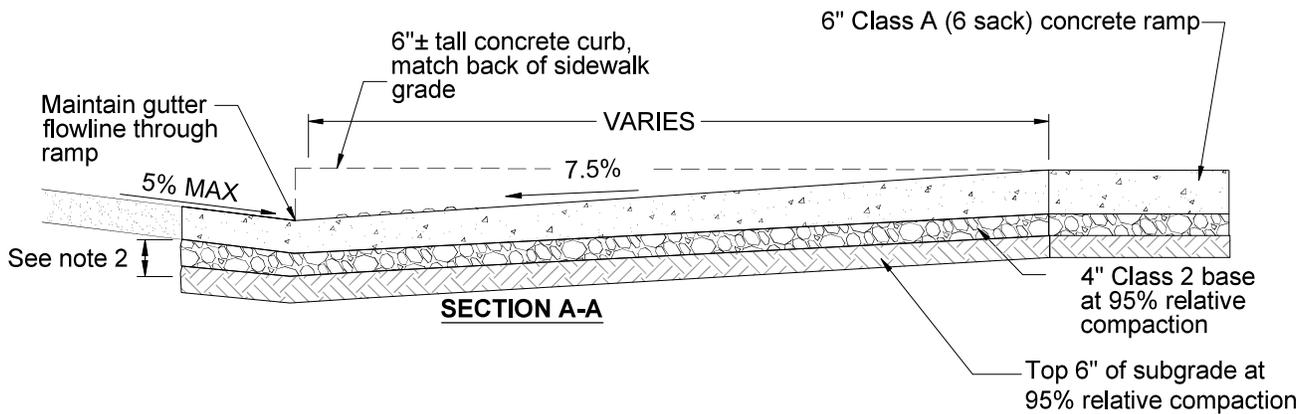
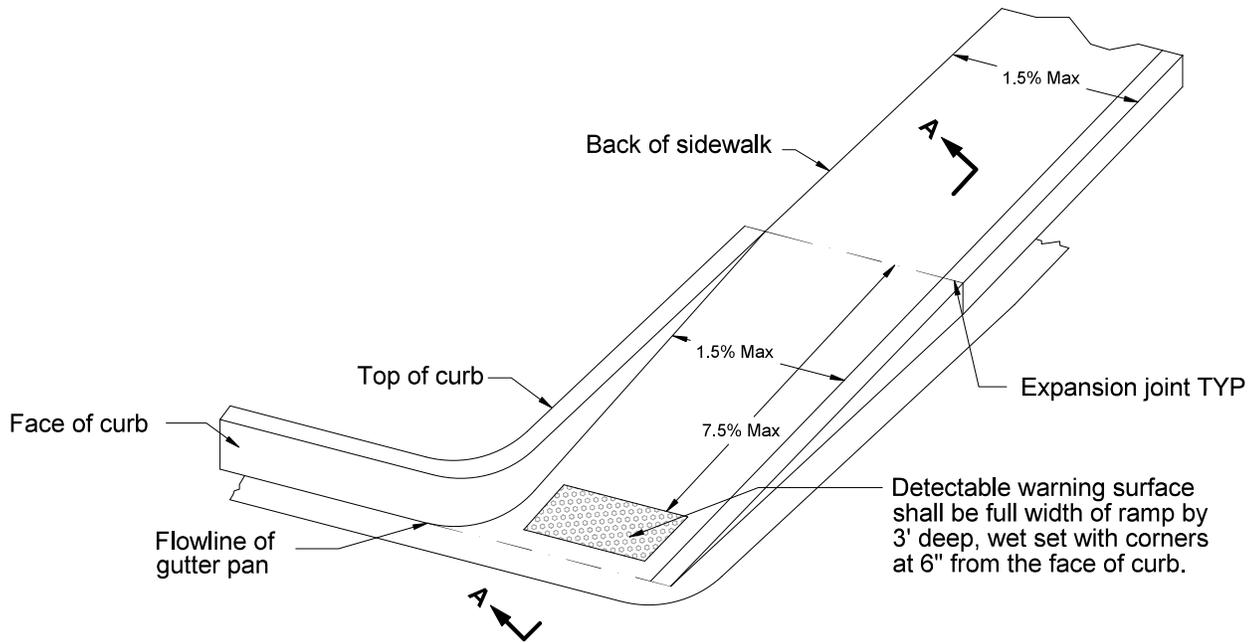
STANDARD DETAIL

**ST08**

SCALE:  
NONE

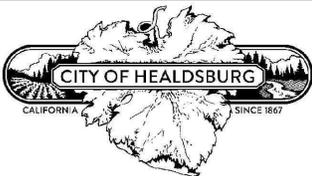
APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024



**NOTES:**

1. All poles, boxes, cabinets and other utilities shall be relocated out of the curb ramp.
2. Class 2 aggregate base at 95% compaction. a minimum of 6-inches thick, shall extend under curb and gutter.
3. The ramp shall be poured monolithically with the curb and gutter.
4. Joint spacing (expansion, weakened plane and score marks) shall be 5' MAX in any direction.
5. Dimensions shown are based on a 6" standard curb height.
6. Transitions from ramps and landing to walks, gutters, or streets shall be flush and free of abrupt changes.
7. All exposed surfaces shall have a medium broom finish. Sidewalks and driveways shall be broom finished perpendicular to the longitudinal axis of the sidewalk.
8. Paint 20' of red curb on intersection approach side (measured from crosswalk, stop bar, or top of curb roll up).



# CURB RAMP

## Type "C"

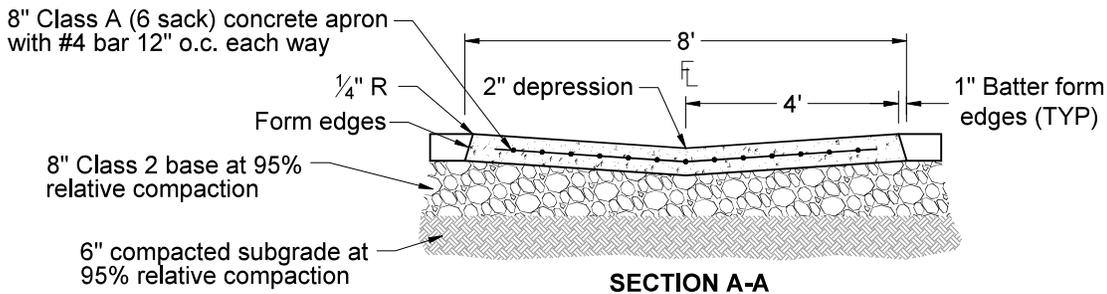
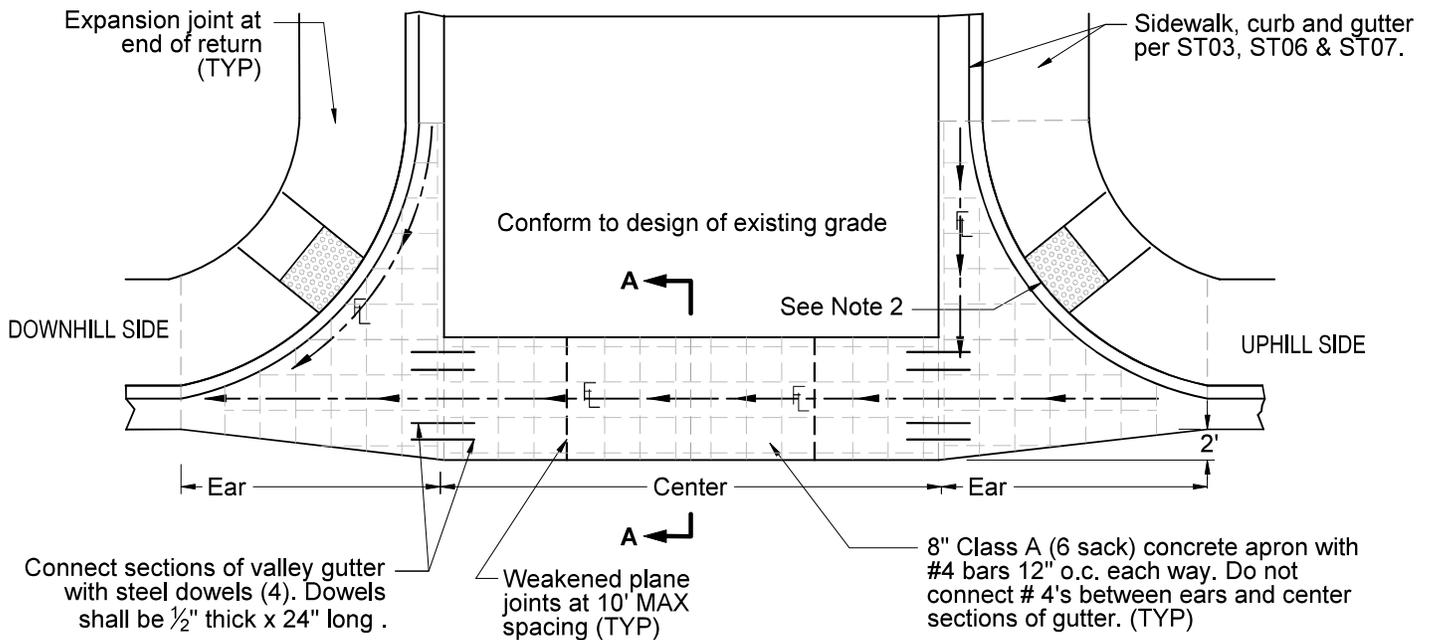
STANDARD DETAIL

# ST09

SCALE:  
NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024



**NOTES:**

1. Asphalt concrete shall be held  $\frac{1}{4}$ " high at edge of concrete
2. Flowline at bottom of uphill ramp shall be raised  $1\frac{1}{2}$ " at midpoint to create highpoint
3. Class 2 aggregate base at 95% compaction. a minimum of 8-inches thick, shall extend under valley gutter.
4. Install three #4 dowels - 6" long, centered in valley gutter with 3" embedment to secure to adjacent curb and gutter.
5. Jointing:
  - a. All joints shall be straight and perpendicular to the longitudinal axis of the gutter.
  - b. Weakened plane joints shall be  $\frac{1}{8}$ " wide and 1 1/2" deep spaced 10' on center. spacing shall match adjacent curb and gutter.
6. All exposed surfaces shall have a medium broom finish. Sidewalks and driveways shall be broom finished perpendicular to the longitudinal axis of the sidewalk.
7. Contractor shall be responsible for protecting fresh concrete from damage of any kind, regardless of the source.



**VALLEY GUTTER**

STANDARD DETAIL

**ST10**

SCALE:  
NONE

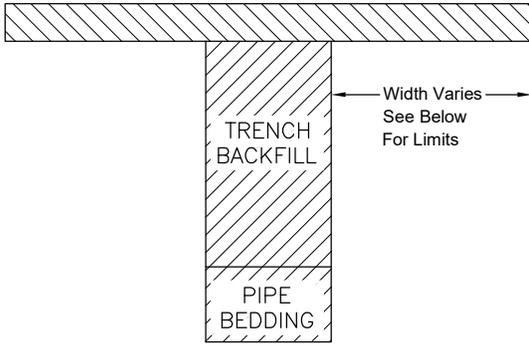
APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024

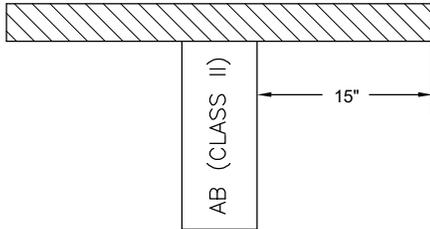
**ROADWAY STRUCTURAL SECTIONS**

Road Class	Traffic Index	Standard Pavement Section
Arterial	9	0.45 AC / 1.9 AB
Collector	8	0.4 AC / 1.7 AB
Residential	7	0.35 AC / 1.5 AB
Industrial	9	0.45 AC / 1.9 AB
Hillside	7	0.35 AC / 1.5 AB

\*Or match existing section, whichever is greater.  
Road Classifications can be found in the Transportation Element of the Healdsburg General Plan

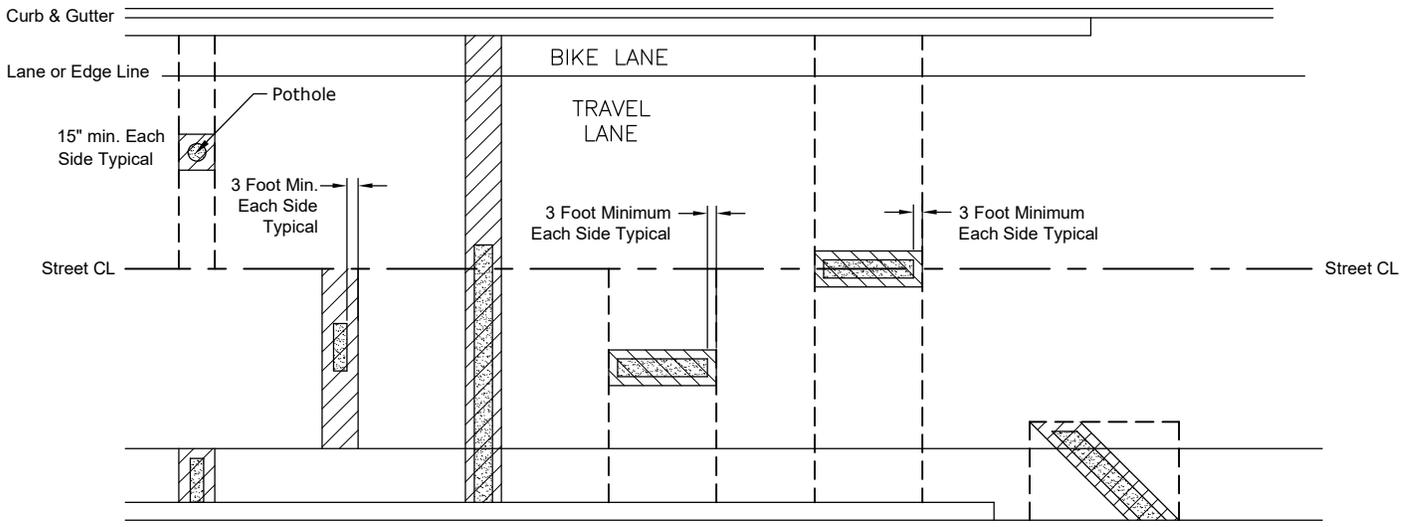


**Trench Excavation**



**Pothole**

**TYPICAL LIMITS OF REMOVAL**



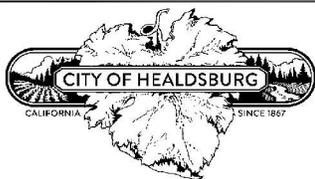
**TYPICAL PAVEMENT CUTS**

[ - - ] REPLACEMENT LIMIT FOR ASPHALT 5 YEARS & NEWER, MICROSURFACE/SLURRY SEAL 2 YEARS & NEWER  
 [ - ] - 2" GRIND AND OVERLAY

[ / / ] REPLACEMENT LIMIT FOR ASPHALT OLDER THAN 5 YEARS, MICROSURFACE/SLURRY SEAL OLDER THAN 2 YEARS - TYPICAL TRENCH SECTION (ABOVE)

[ . . ] EXCAVATED AREA

1. COMPACTION TESTS SHALL BE REQUIRED AS DEEMED NECESSARY BY THE CITY ENGINEER OR INSPECTOR.
2. SEE STANDARD ST11.02 FOR ADDITIONAL NOTES.



**TRENCH**  
**Backfill and Resurfacing**

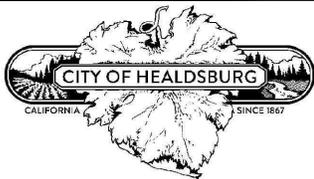
STANDARD DETAIL

**ST11.1**

SCALE:  
 NONE

APPROVED: *Larry Zimmer*  
 Director of Public Works Larry Zimmer

DATE: June 2024



# TRENCH

## Backfill and Resurfacing

STANDARD DETAIL

# ST11.2

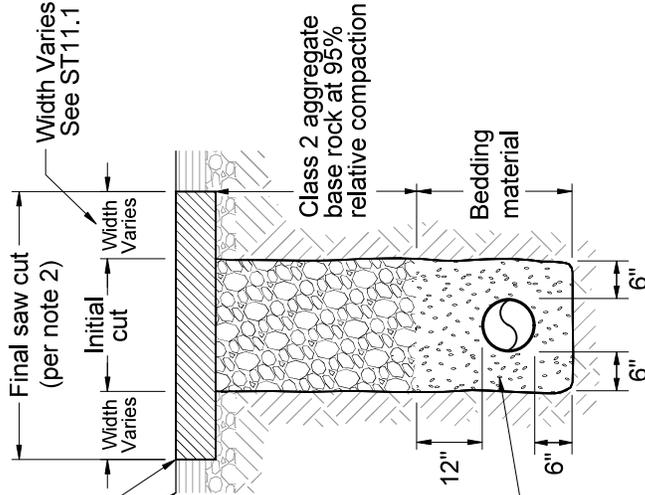
SCALE:  
NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

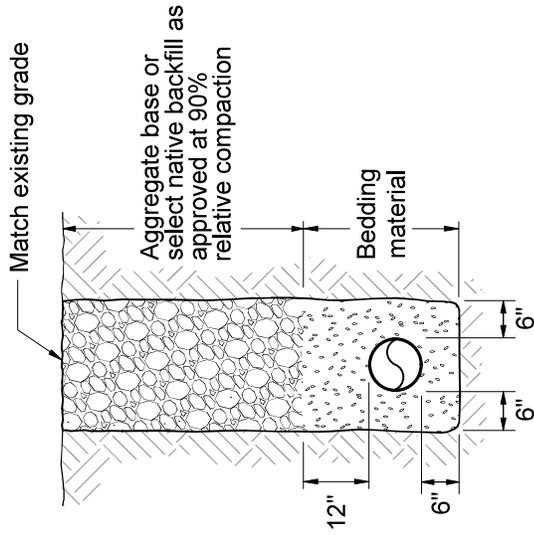
DATE: June  
2024

New AC trench plug shall be placed in 2 lifts (with tack coat) and shall meet the City's structural design standard for the Street Class and Traffic Index

Existing pavement (thickness varies)



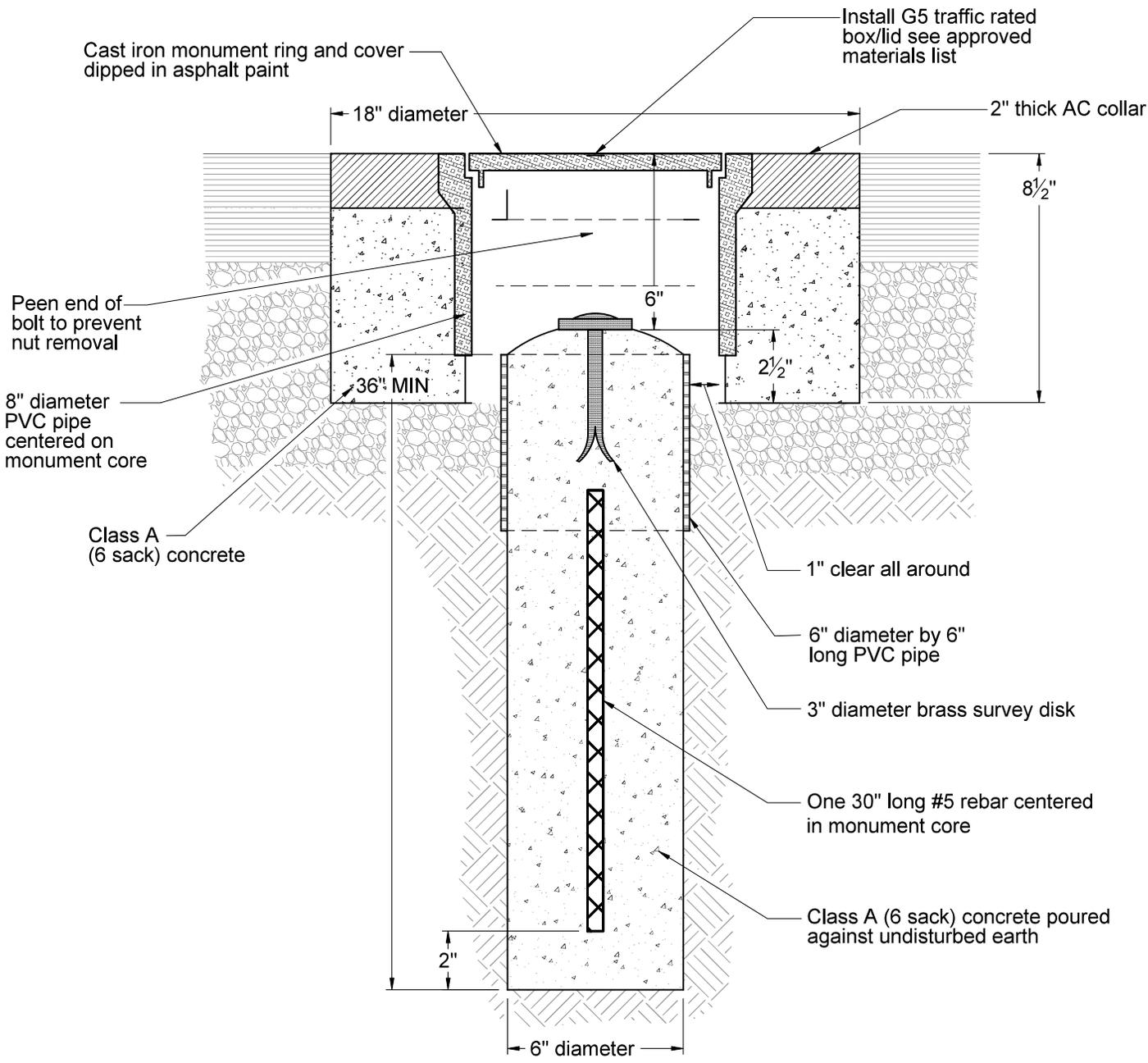
Bedding material for all pipes except water service laterals shall be  $\frac{3}{8}$ " crushed chips. Poly water services shall be bedded in #4 grade salt-free sand.



**NON-PAVED AREAS**

**NOTES:**

1. Where existing street is concrete overlaid with AC, the concrete section removed by trenching shall be replaced with AC to the required structural section.
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 as shown on ST11.1.
3. If existing pavement adjacent to trench is cracked or damaged, final trench paving shall be extended to a location where a clean, smooth edge can be established.
- Permanent paving must be completed within 30 days. AC or cutback (1" thick) may be placed as a temporary surface in roadway areas only if authorized by the City Engineer, and shall be maintained until permanent paving is completed. Where warranted and at the discretion of the Public Works Inspector, trench plates may be used for up to 2 weeks. Trench plates shall have a skid resistant surface, secured with 24" wide collar of cutback around all sides of plate, shall be painted, and tapered to provide smooth transitions. Temporary surface and material shall be completely removed prior to placement of permanent pavement.
4. Contractor shall be responsible to provide adequate shoring to keep adjacent material from running into trench. Voids under pavement sections adjacent to the trench shall be filled with a 2 sack slurry or the pavement over such voids shall be removed and the area backfilled with Class 2 aggregate and compacted to 95% relative compaction.



**NOTES:**

1. Finished top of monument core smooth and round with no concrete above edge of brass survey disk.



**SURVEY MONUMENT**

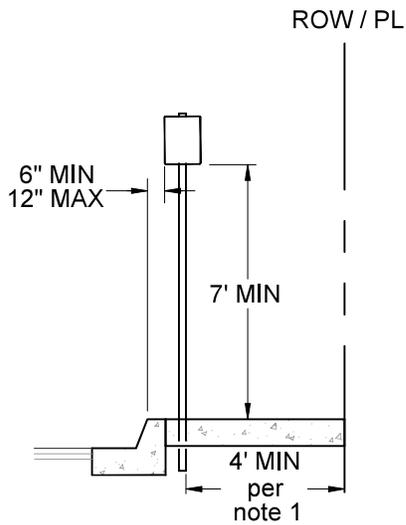
STANDARD DETAIL

**ST12**

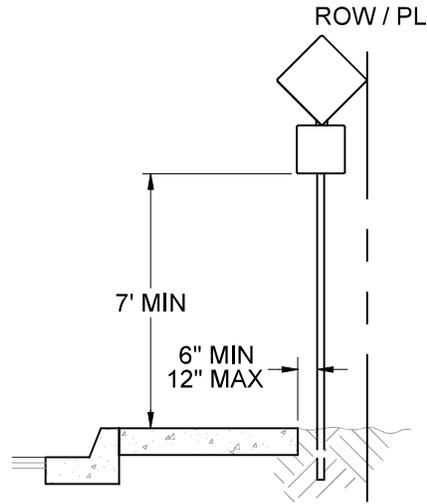
SCALE: NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June 2024

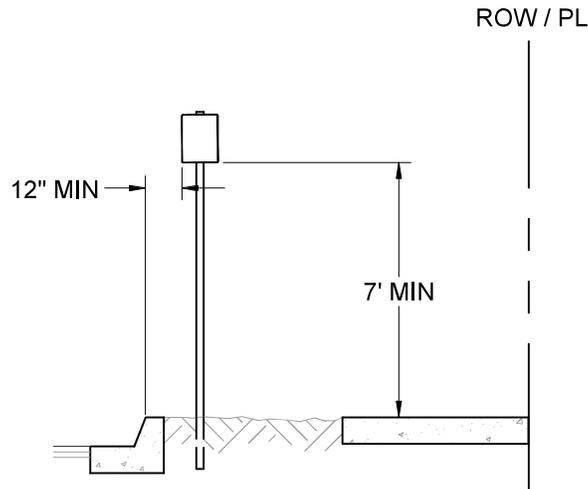


REGULATORY AND WARNING SIGNS



GUIDE SIGNS

**SIDEWALK ATTACHED TO CURB**



ALL SIGNS

**SIDEWALK SEPARATED FROM CURB OR NO SIDEWALK**

**NOTES:**

1. Extend sidewalk around sign post per ST16 when necessary to maintain 4' clear sidewalk for new installations, with 3' clear required for existing installations.
2. Signs shall conform to Caltrans requirements (size, format, color & retroreflective (HIP) High Density Prismatic aluminum panels).
3. Signs shall be centered and bolted directly to the post.
4. Sign posts shall be installed per ST11.



**STREET SIGN**  
Typical Location

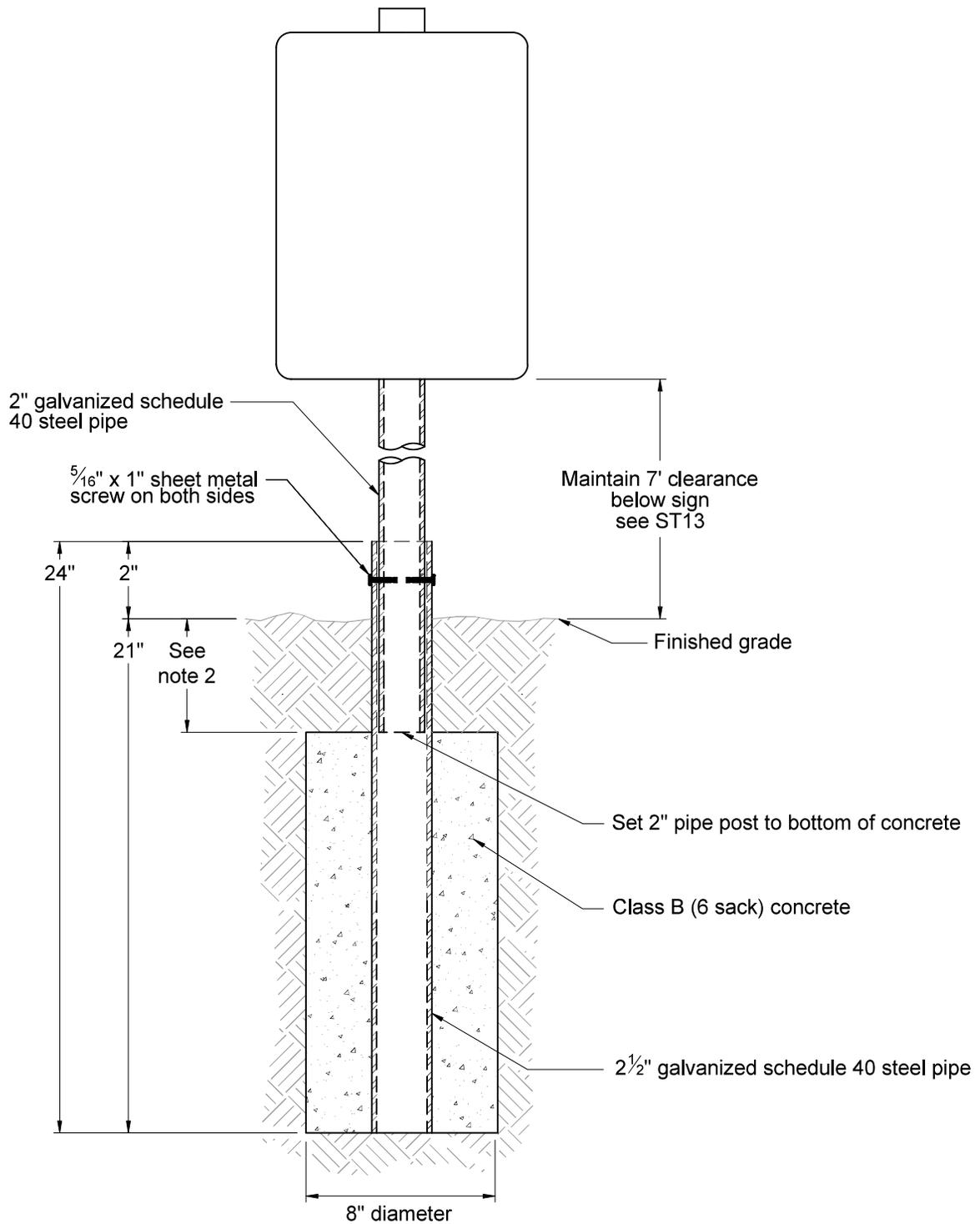
STANDARD DETAIL

**ST13**

SCALE:  
NONE

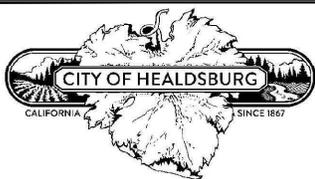
APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024



**NOTES:**

1. Post hole shall be hand excavated if underground utilities are present.
2. Cover shall be 6" of soil or 4" concrete sidewalk.



# STREET SIGN

## Post and Sleeve Installation

STANDARD DETAIL

# ST14

SCALE:  
NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024

Background for border and letters to be 3M Scotchlite Reflective Graphic Film 680-10 White (retro-reflective)

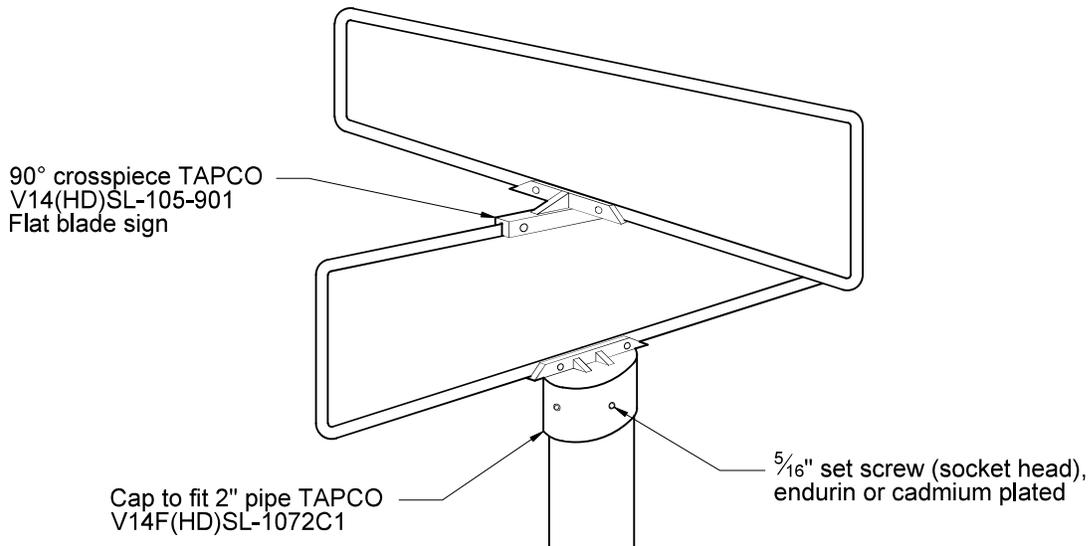
4" upper case letters

3" upper case letters

3M Scotchlite Reflective Graphic Film 5100-79 Brown (retro-reflective) background



**TYPICAL STREET NAME SIGN**



**POLE MOUNTING HARDWARE**

**NOTES:**

1. Sign blanks shall be aluminum per Caltrans specifications.
2. Font shall be Futura Medium Condensed.
3. Spacing of letters, words, and abbreviations per Caltrans specifications.
4. Signs shall be double faced.
5. Sign posts shall be installed per ST14.
6. All signs shall be centered on pole and level at time of installation.



**STREET SIGN**  
Street Name

STANDARD DETAIL

**ST15**

SCALE:  
NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June 2024

Background for border and letters to be 3M Scotchlite Reflective Graphic Film 680-10 White (retro-reflective)

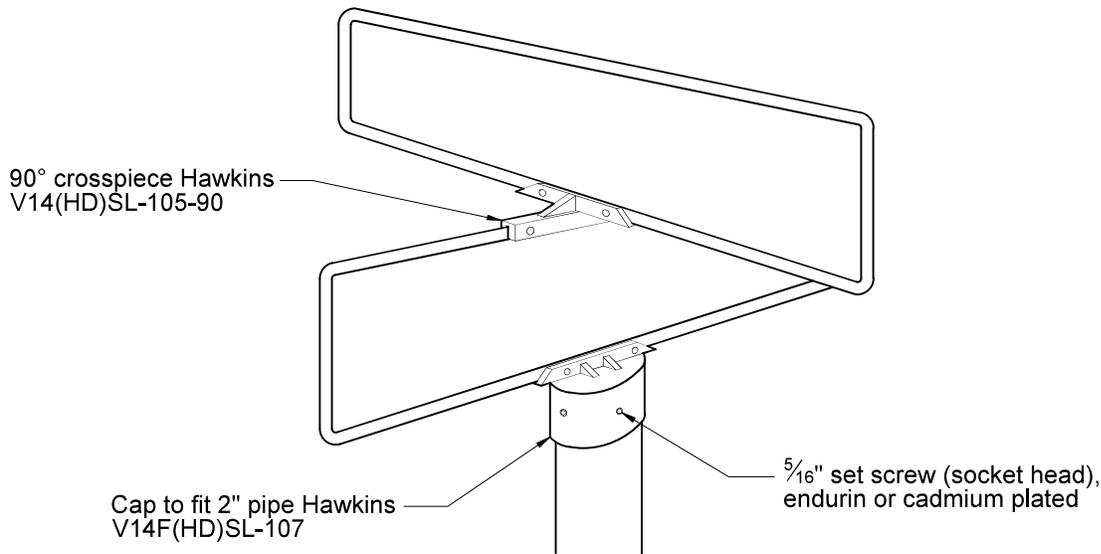
4" upper case letters  
3" upper case letters

2" upper case letters

3M Scotchlite Reflective Graphic Film 680-77 Green (retro-reflective) background



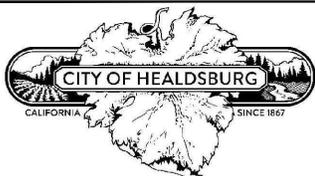
**TYPICAL STREET NAME SIGN**



**POLE MOUNTING HARDWARE**

**NOTES:**

1. Sign blanks shall be aluminum per Caltrans specifications.
2. Font shall be Futura Medium Condensed.
3. Spacing of letters, words, and abbreviations per Caltrans specifications.
4. Signs shall be double faced.
5. Sign posts shall be installed per ST14.
6. All signs shall be centered on pole and level at time of installation.



**PRIVATE STREET SIGN**  
Street Name

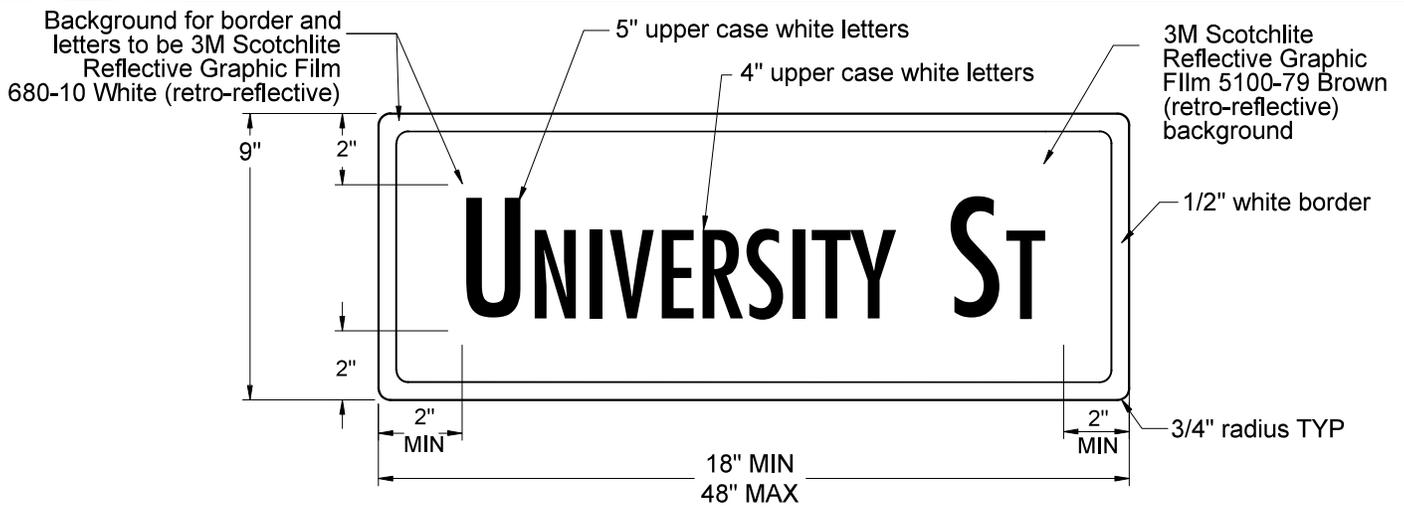
STANDARD DETAIL

**ST16**

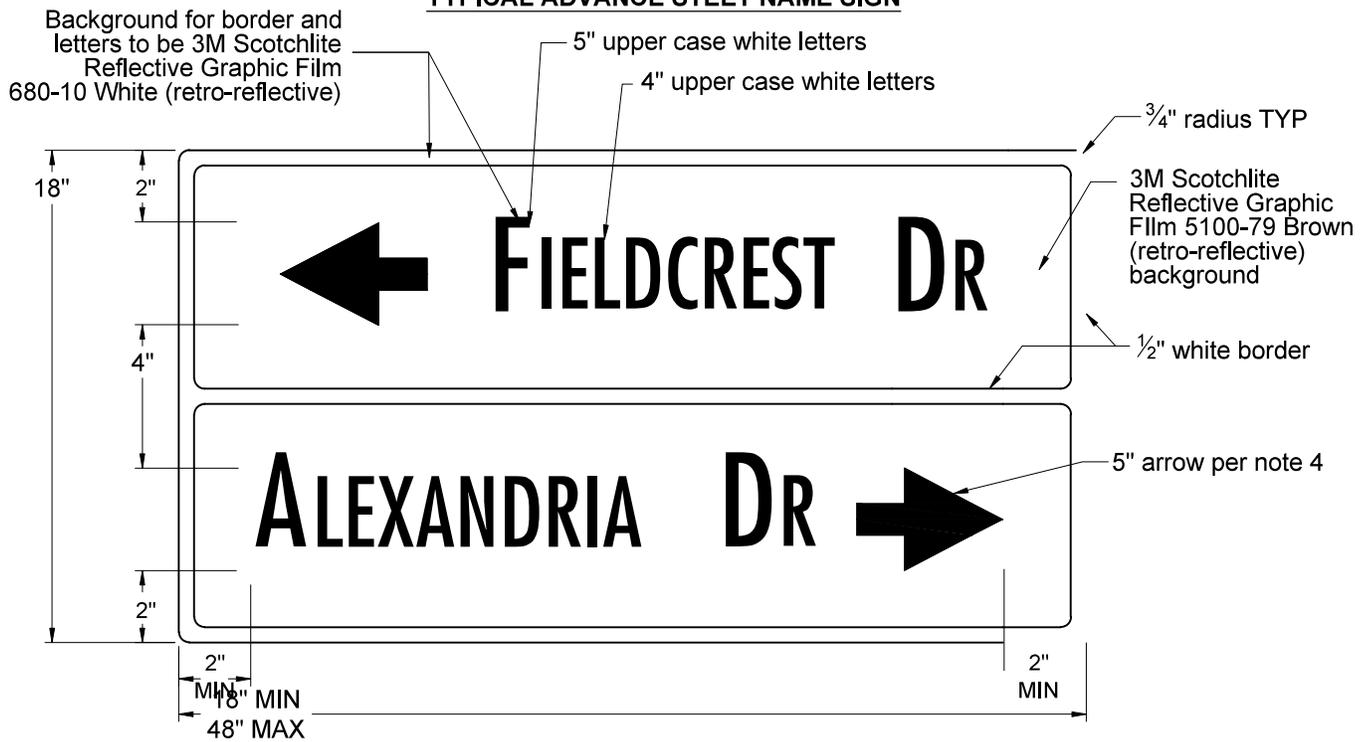
SCALE:  
NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June 2024



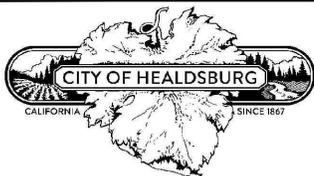
**TYPICAL ADVANCE STREET NAME SIGN**



**STREET NAME CHANGE**

**NOTES:**

1. Sign blanks shall be aluminum per Caltrans specifications.
2. Font shall be Futura Medium Condensed
3. Spacing of letters, words, and abbreviations per Caltrans specifications.
4. At "T" intersections or intersections where a street name changes, a 5" arrow shall be added to the sign. The arrow shall be solid white high intensity reflective material and shall point in the direction of the associated street as shown in the above detail.
5. Sign posts shall be installed per ST14.
6. All signs shall be centered on pole and level at time of installation. Signs over 36" long shall be mounted with U-post brace.



**STREET SIGN**  
Advance Street Name

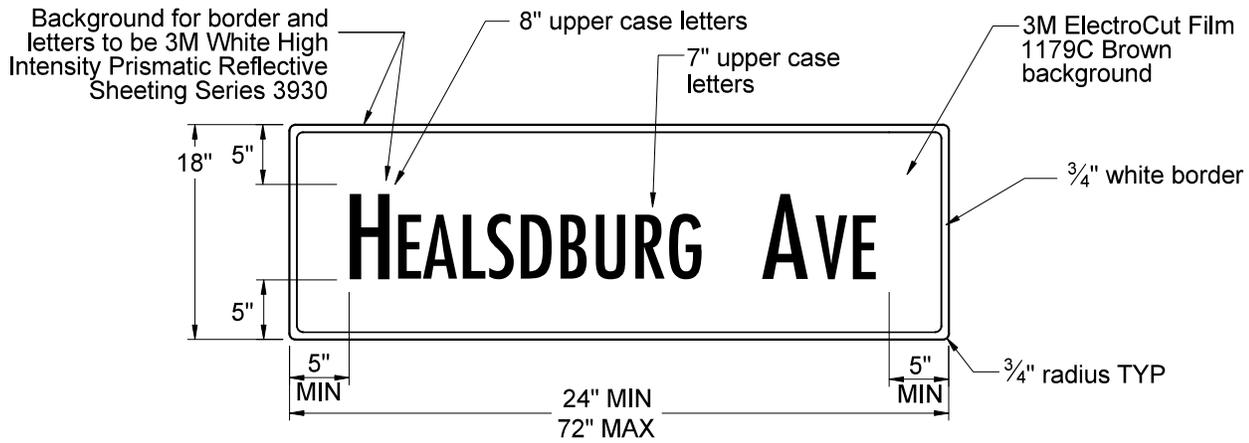
STANDARD DETAIL

**ST17**

SCALE:  
NONE

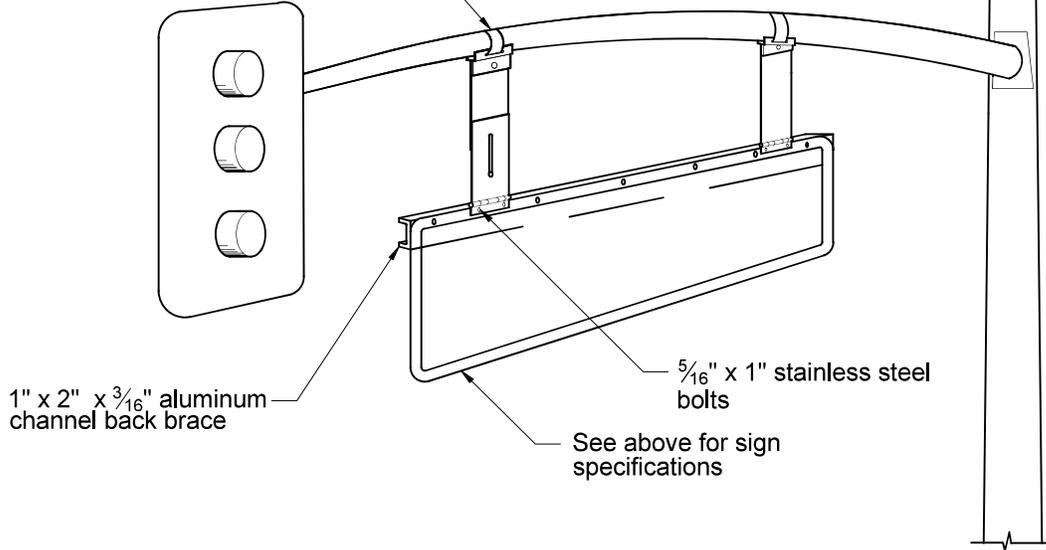
APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024



**TYPICAL MAST-ARM STREET NAME SIGN**

TAPCO MIOJ-OCB250 ALS mast arm swing sign brackets mounted 6"-12" from sign edge



**TYPICAL MAST-ARM STREET NAME SIGN INSTALLATION**

**NOTES:**

1. Sign blanks shall be aluminum per Caltrans specifications.
2. Font shall be Futura Medium Condensed
3. Signs shall be double-faced.
4. Spacing of letters, words, and abbreviations per Caltrans specifications.
5. At "T" intersections or intersections where the street name changes, a 8" arrow shall be added to the sign. The arrow shall be solid white high intensity reflective material and shall point in the direction of the associated street similar to ST14.
6. Location of sign mounting on the mast arm shall be determined by the City Engineer during the plan check process.



**STREET SIGN**  
Mast Arm Mounted

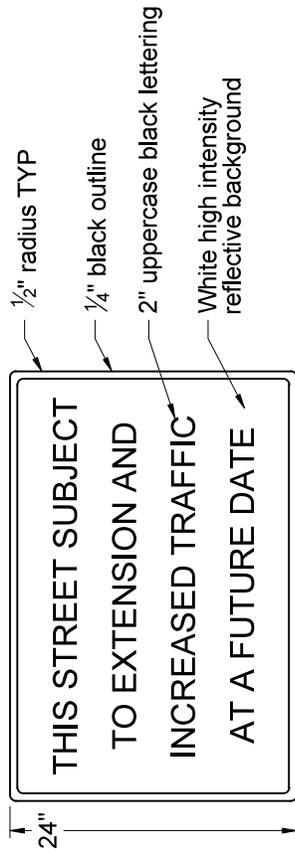
STANDARD DETAIL

**ST18**

SCALE: NONE

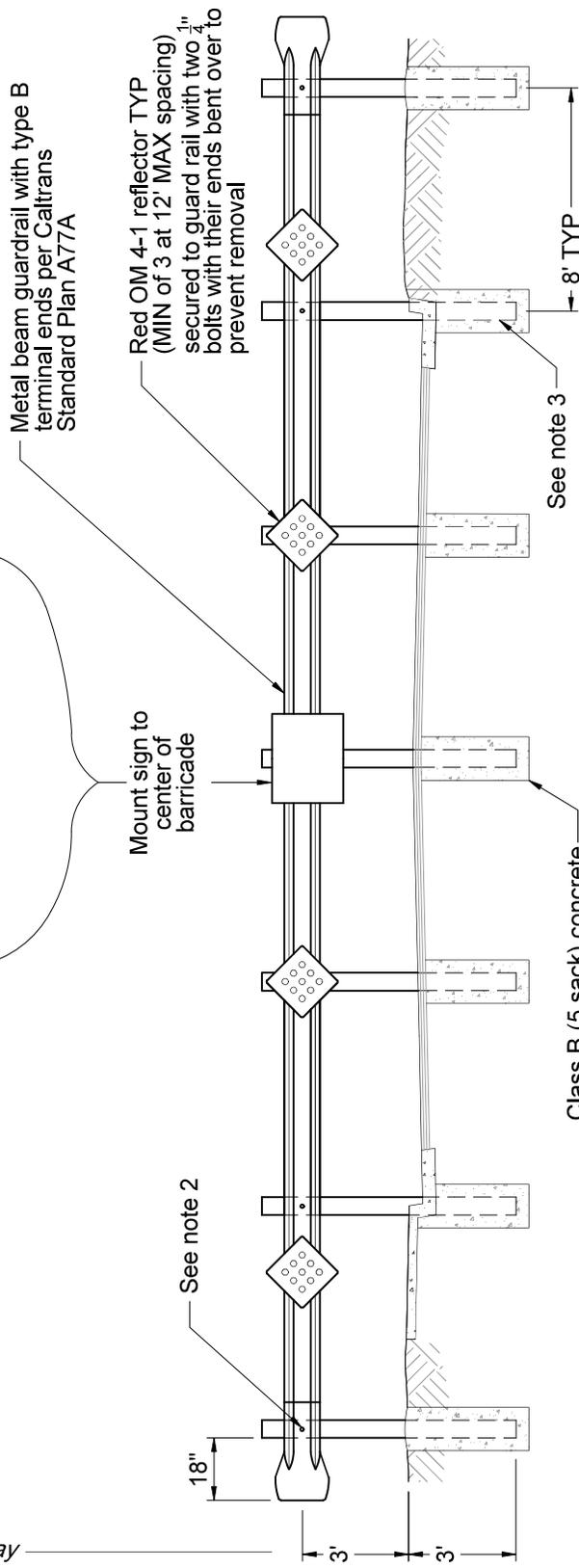
APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June 2024



Right of way

Right of way



**NOTES:**

1. The barricade shall be placed immediately behind the end of the street improvements and extend across the entire right-of-way.
2. 1/2" carriage bolt with washer and hex nut shall be used to attach guardrail to each post. Bolts shall be bent over to prevent removal.
3. Posts shall be 7' long: W 4 x 6 steel posts or 6" x 6" pressure treated wood posts.
4. All steel components shall be hot dipped galvanized and all wood components shall be pressure treated per Caltrans Specification Section 83.
5. Sign blanks shall be aluminum per Caltrans specifications.
6. Signs shall be single faced.



# STREET BARRICADE

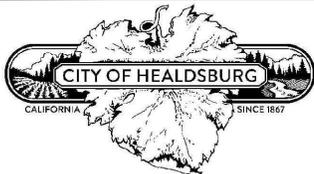
STANDARD DETAIL

## ST19

SCALE: NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June 2024



# SIDEWALK BARRICADE

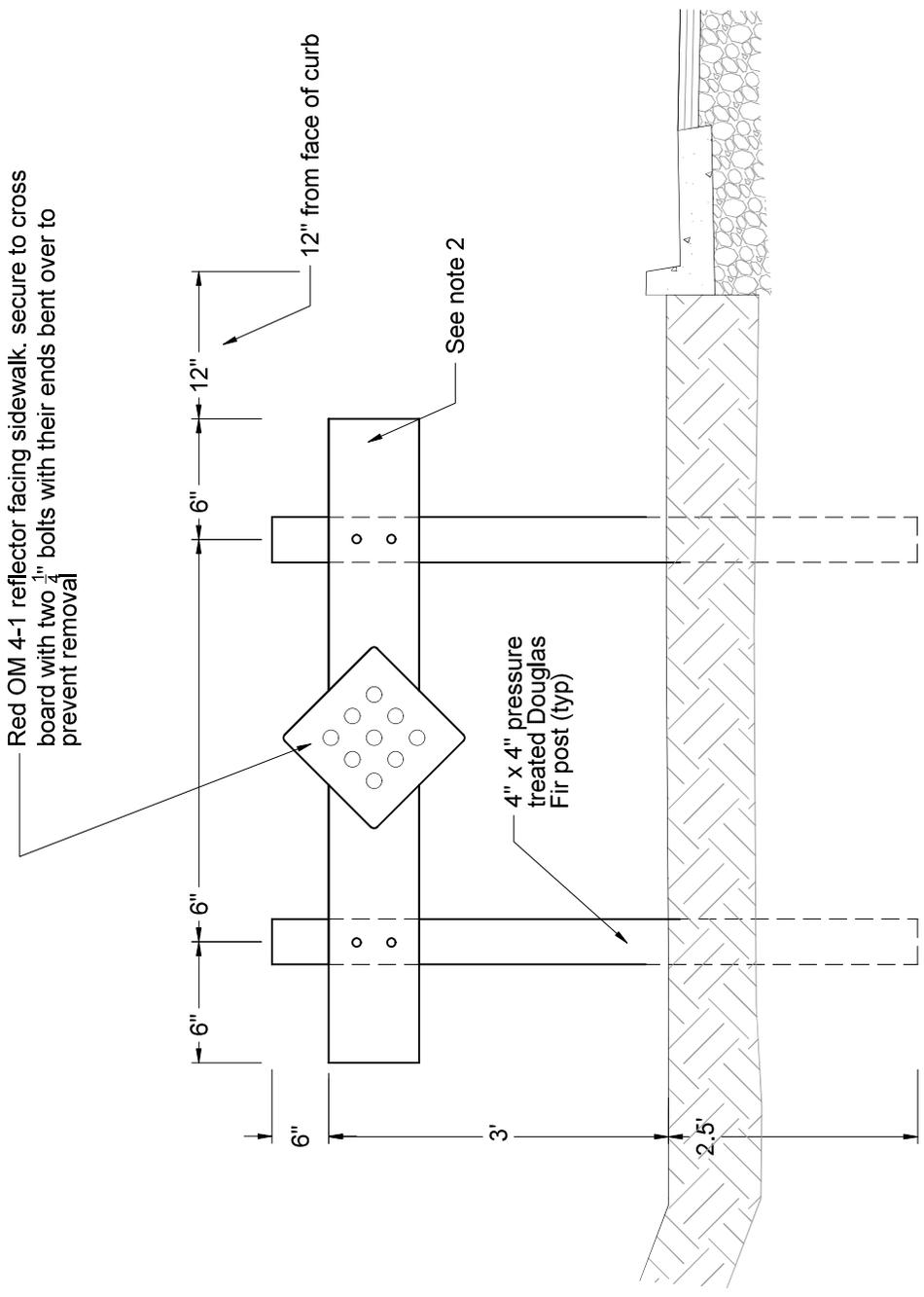
STANDARD DETAIL

## ST20

SCALE:  
NONE

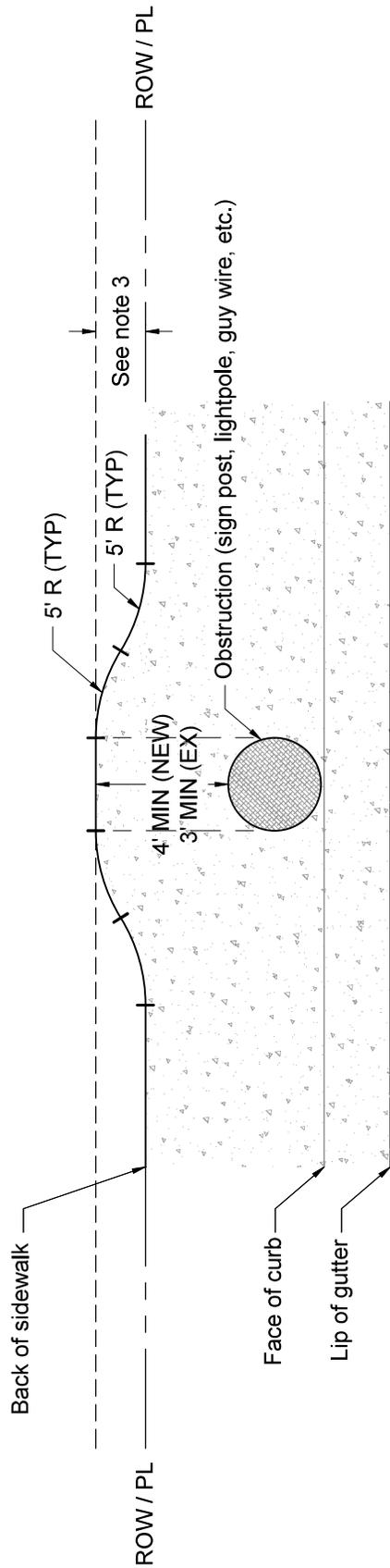
APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024



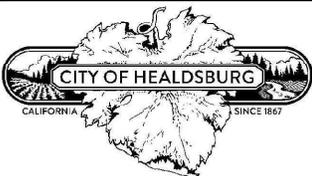
**NOTES:**

1. The barricade shall be placed immediately behind the end of the sidewalk
2. Posts shall be backfilled with compacted earth
3. 2" x 6" cross board shall be pressure treated Douglas Fir fastened to posts with 1/2" galvanized bolts, washers, and nuts countersunk at both ends.
4. Barricade shall be painted white (1 coat prime and 2 coats enamel after erection).
5. All steel components shall be hot dipped galvanized and all wood components shall be pressure treated per Caltrans Specification Section 83.
6. Sign blanks shall be aluminum per Caltrans specifications.
7. Signs shall be single faced.



**NOTES:**

1. 4 foot minimum clearance shall be maintained around newly constructed obstructions.
2. 3 foot minimum clearance shall be maintained around existing obstructions.
3. A right of way dedication or access / sidewalk easement is required for encroachment onto private property.



# SIDEWALK OBSTRUCTION

STANDARD DETAIL

## ST21

SCALE:  
NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024



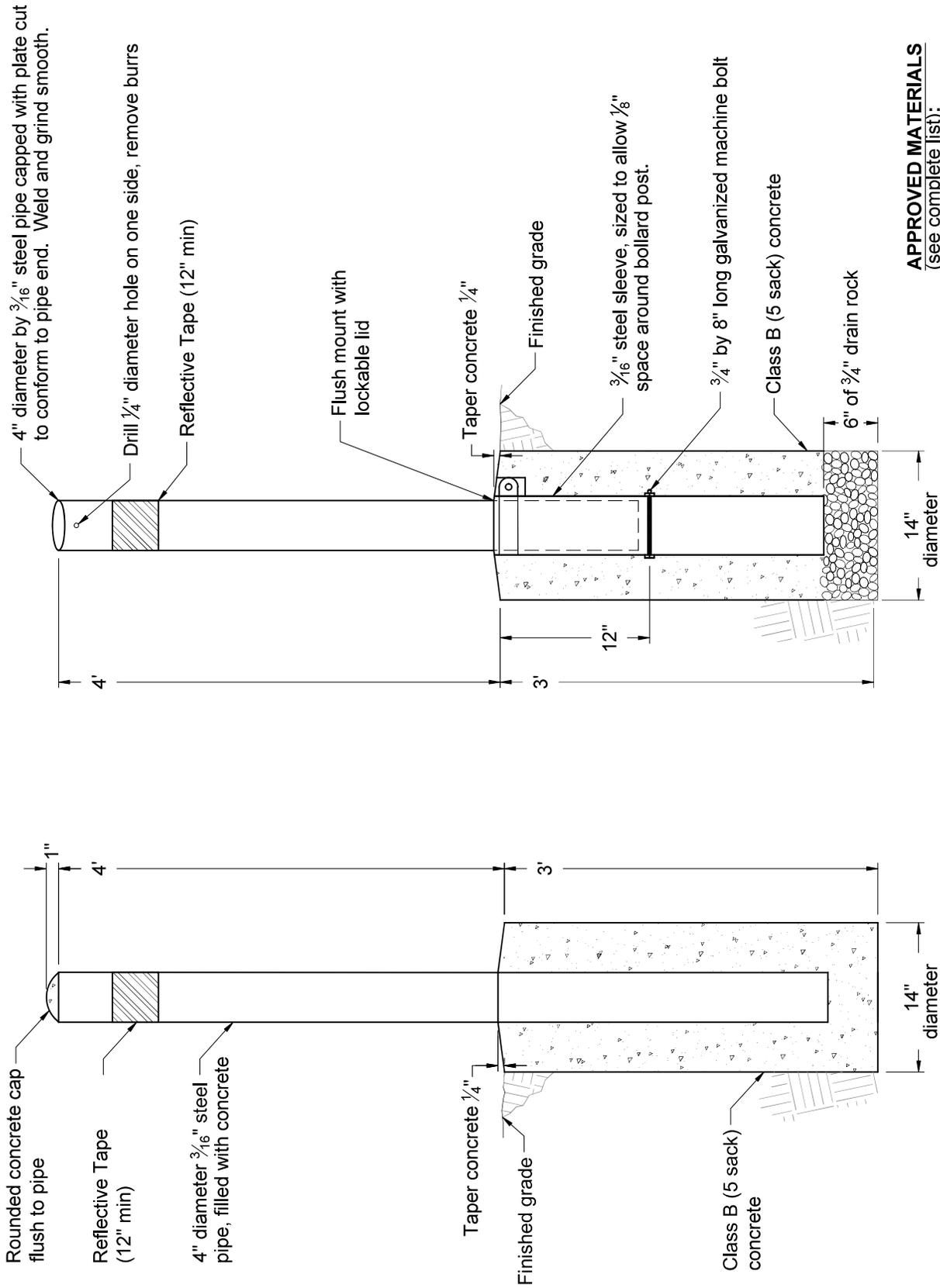
SCALE:  
NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024

STANDARD DETAIL

**ST22**

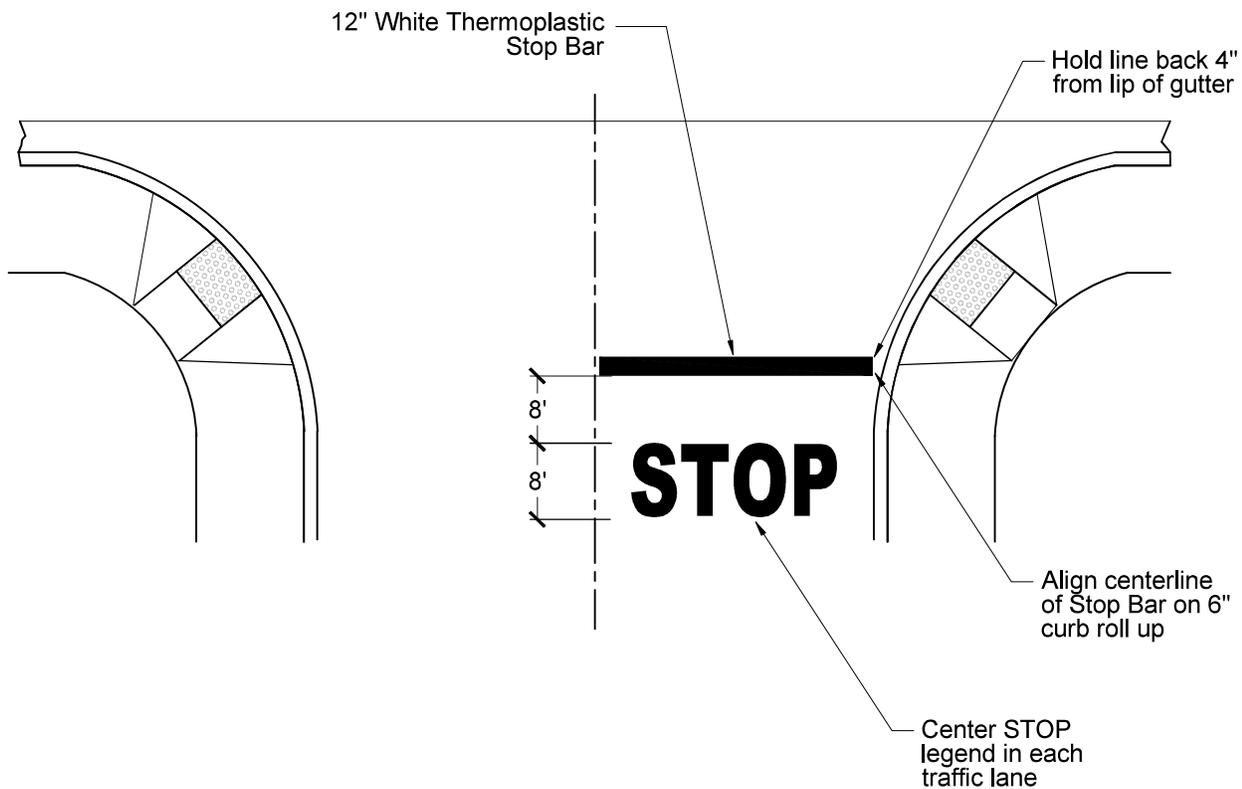


**APPROVED MATERIALS**  
(see complete list):

- a. All parts of bollard shall be hot dip galvanized steel per Caltrans Std Specification 75-1.05

**NOTES:**

- 1. Post hole shall be hand excavated if underground utilities are present.



**NOTES:**

1. All intersection designated for STOP signs shall include thermoplastic 'STOP' legend and stop bar.
2. STOP letters shall be thermoplastic using State of California Department of Transportation approved stencils. Letters shall be a minimum of 8' in height.



**STOP BAR AND STOP LEGEND**

STANDARD DETAIL

**ST23**

SCALE:  
NONE

APPROVED: *Larry Zimmer*  
Director of Public Works Larry Zimmer

DATE: June  
2024