# CITY OF LOS ALTOS

## STANDARD DETAILS

May 2010 Edition

COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
One North San Antonio Road
Los Altos, CA 94022
Phone: 650-947-2780
Fax: 650-947-2732

# STANDARD DETAILS

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## STANDARD DETAILS
(cont.)

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|---|---|
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|---|---|
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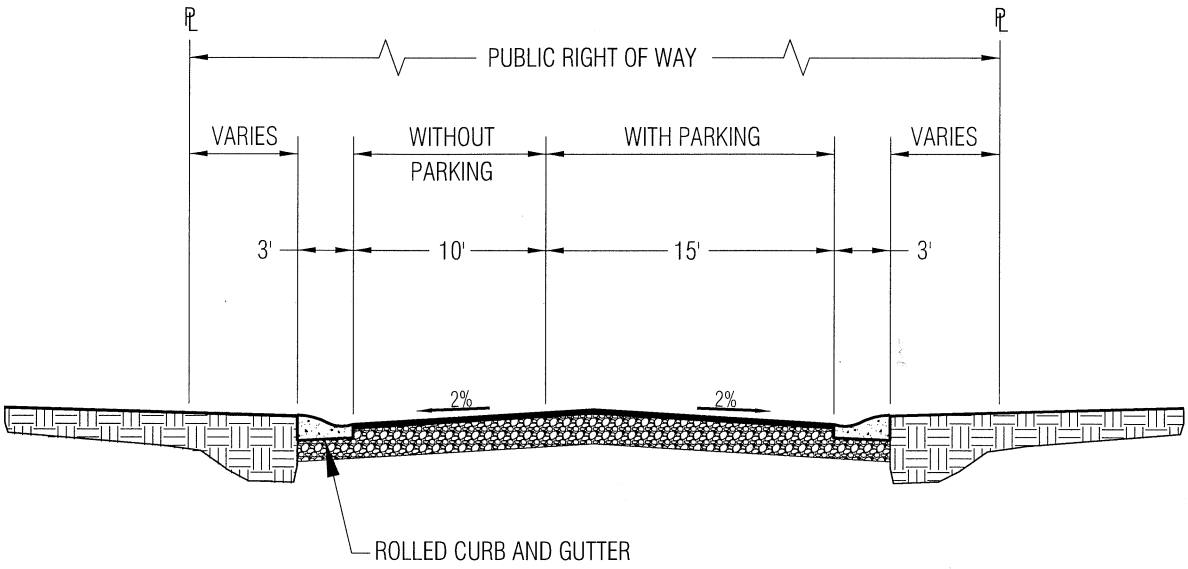
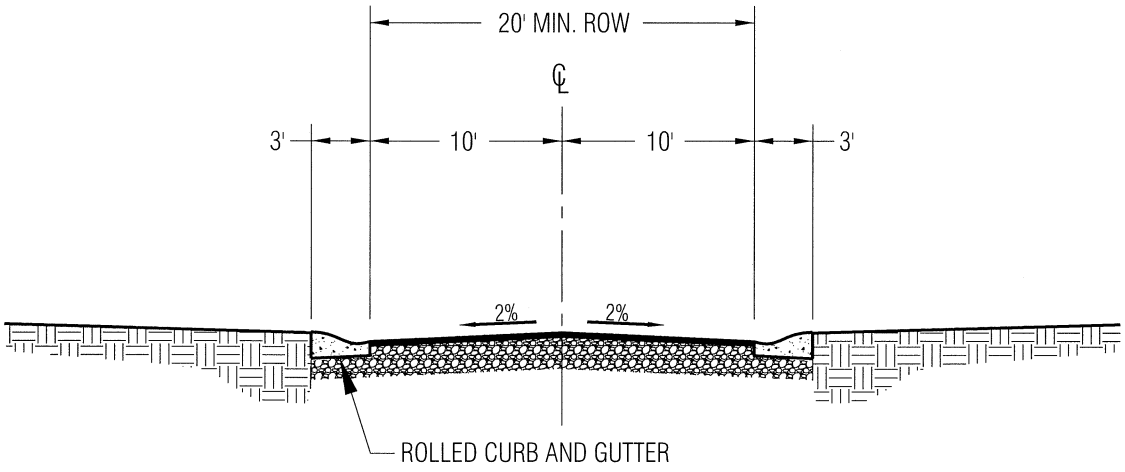



## RESIDENTIAL STREET

SCALE: 1" = 10'




## PRIVATE STREET

SCALE: 1" = 10'

NOTES:

1. PRIVATE STREETS ARE ONLY ALLOWED ON CONDOMINIUM, TOWNHOUSE, APARTMENT OR PLANNED UNIT DEVELOPMENTS.

Approved: _____ City Engineer 1/4/10 Date

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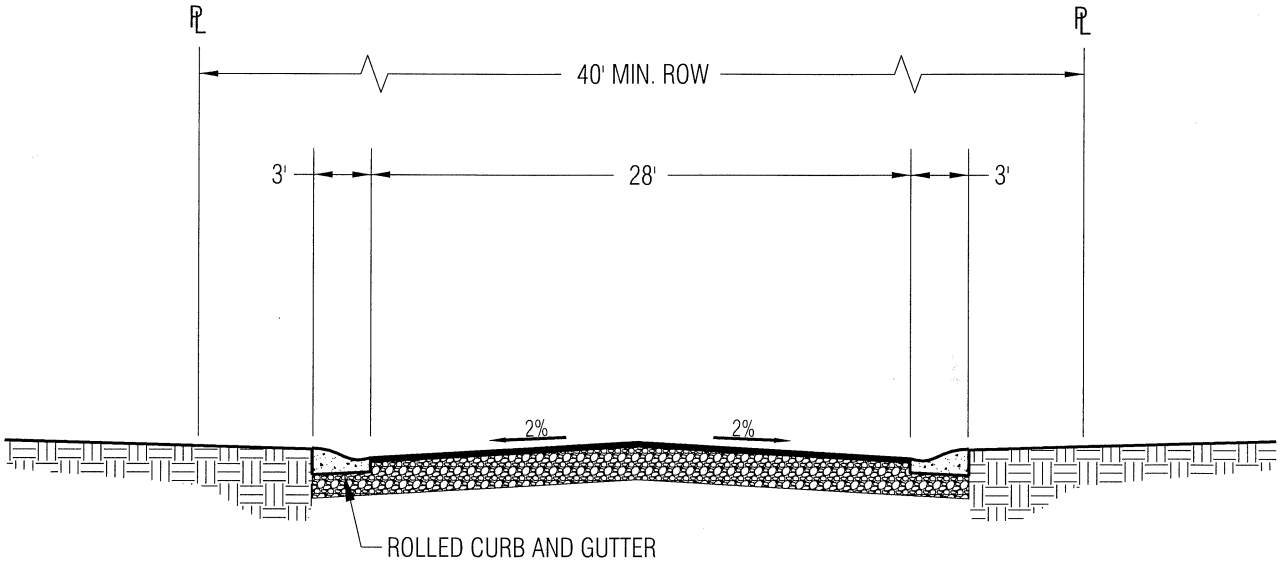
**ENGINEERING DIVISION**

**MINIMUM STREET STANDARD FOR RESIDENTIAL AND PRIVATE STREETS**

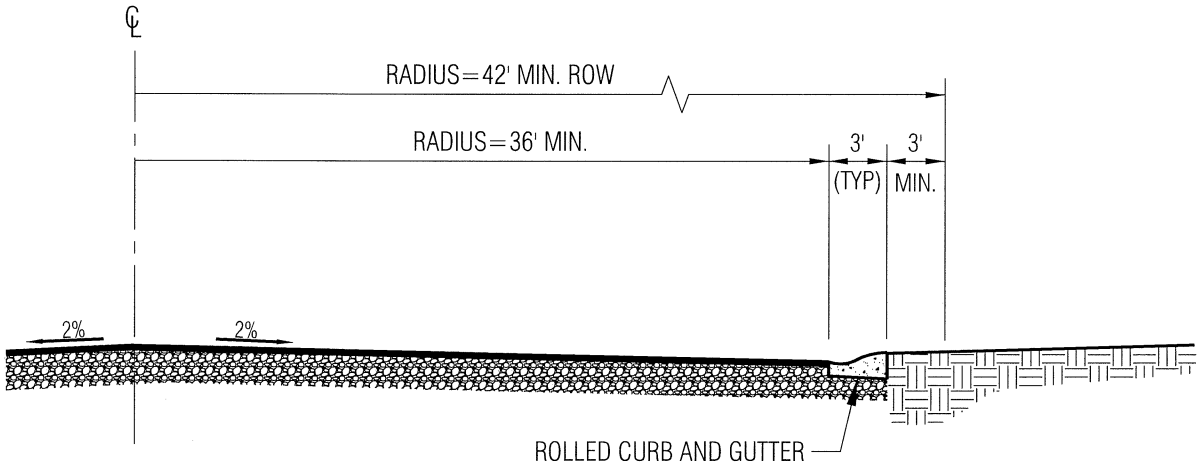
**SU-1**




## PUBLIC CUL-DE-SAC STREET

SCALE: 1" = 10'

(TWO 10-FT TRAVEL LANES WITH 8-FT PARKING ON ONE SIDE)




## PUBLIC CUL-DE-SAC TURNAROUND

SCALE: 1" = 10'

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|---|---|
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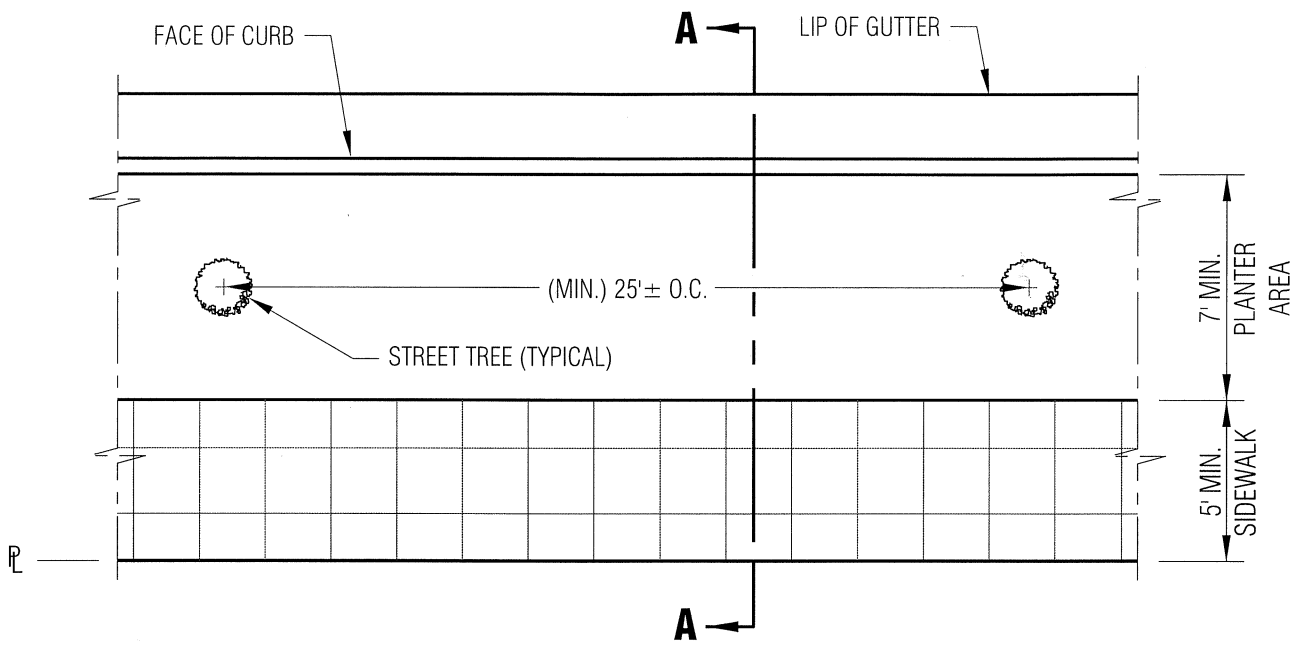
# ENGINEERING DIVISION

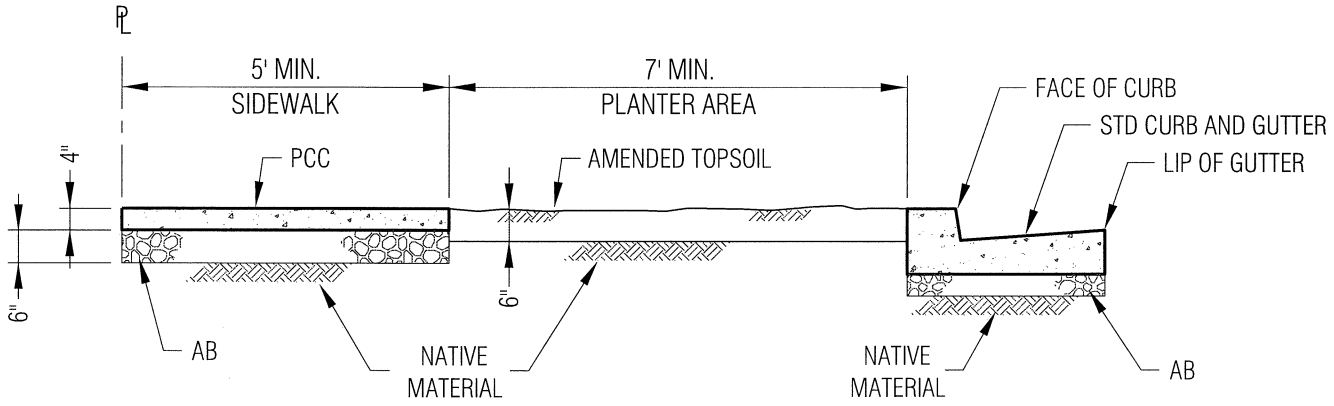
**MINIMUM STREET STANDARD FOR PUBLIC CUL-DE-SAC**

**SU-2**




## PLAN VIEW

SCALE: 1" = 6'-0"




## SECTION A-A

SCALE: 1" = 3'-0"

Approved: _____ 1/4/10
City Engineer Date

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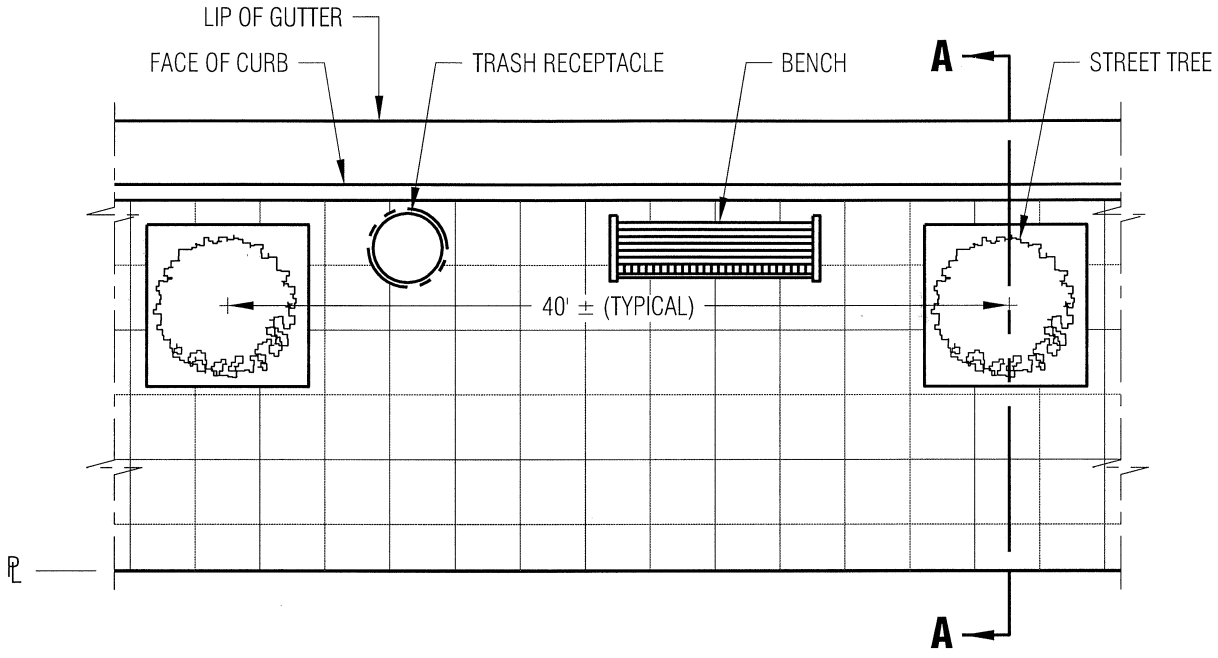
# ENGINEERING DIVISION

**DOWNTOWN TYPE 'A' SIDEWALK**

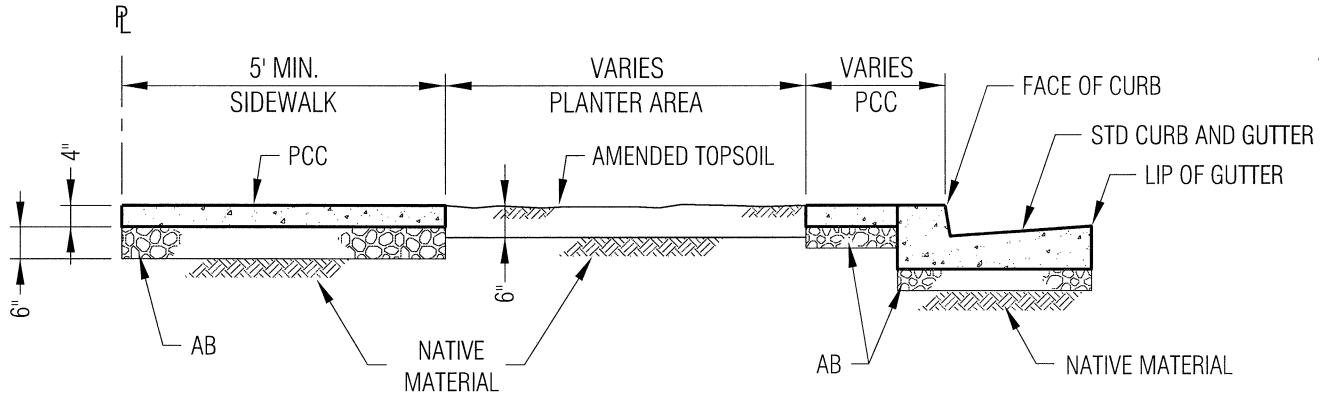
**SU-3**

**STANDARD DETAILS MAY 2010**




## PLAN VIEW

NTS




## SECTION A-A

SCALE: 1" = 3'-0"

Approved: _____ City Engineer 1/4/10 Date

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|---|---|
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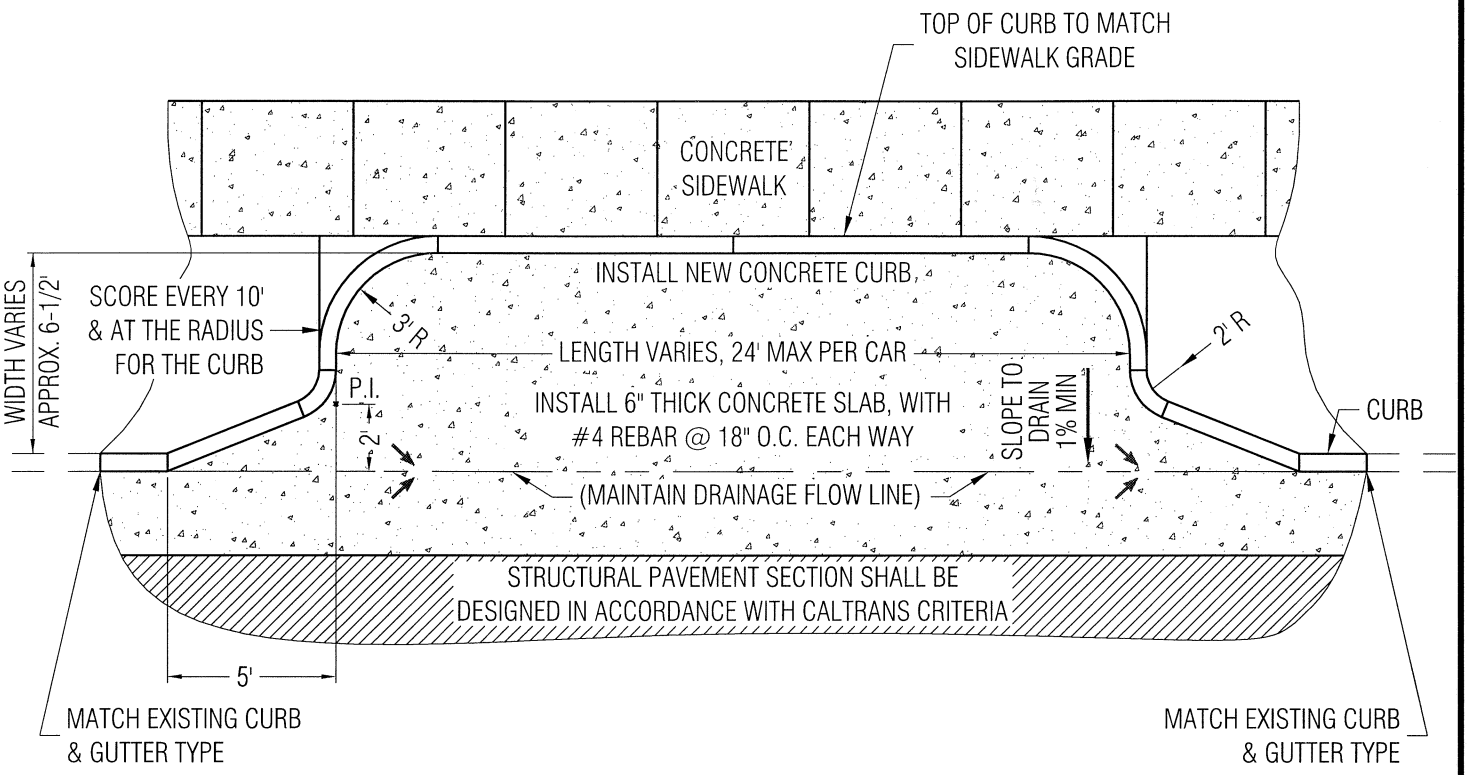
# ENGINEERING DIVISION

**DOWNTOWN TYPE 'B' SIDEWALK**

**SU-4**




# TYPICAL DUCK-OUT PARKING DETAIL

NTS

Approved: _____ City Engineer 1/4/10 Date

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|---|---|
| Description | Date |
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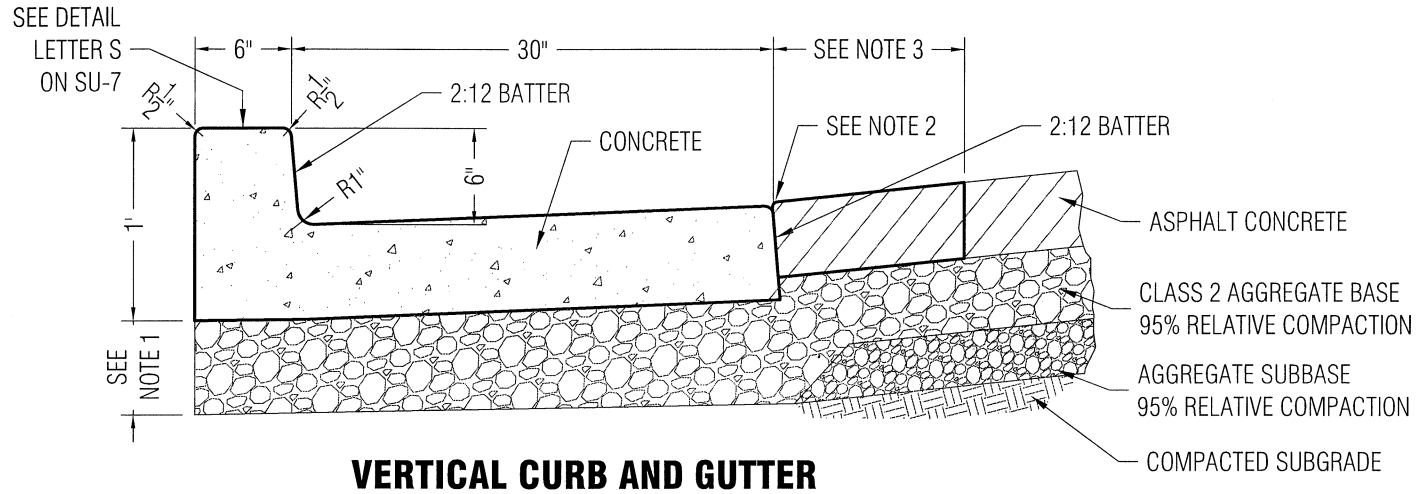
## ENGINEERING DIVISION

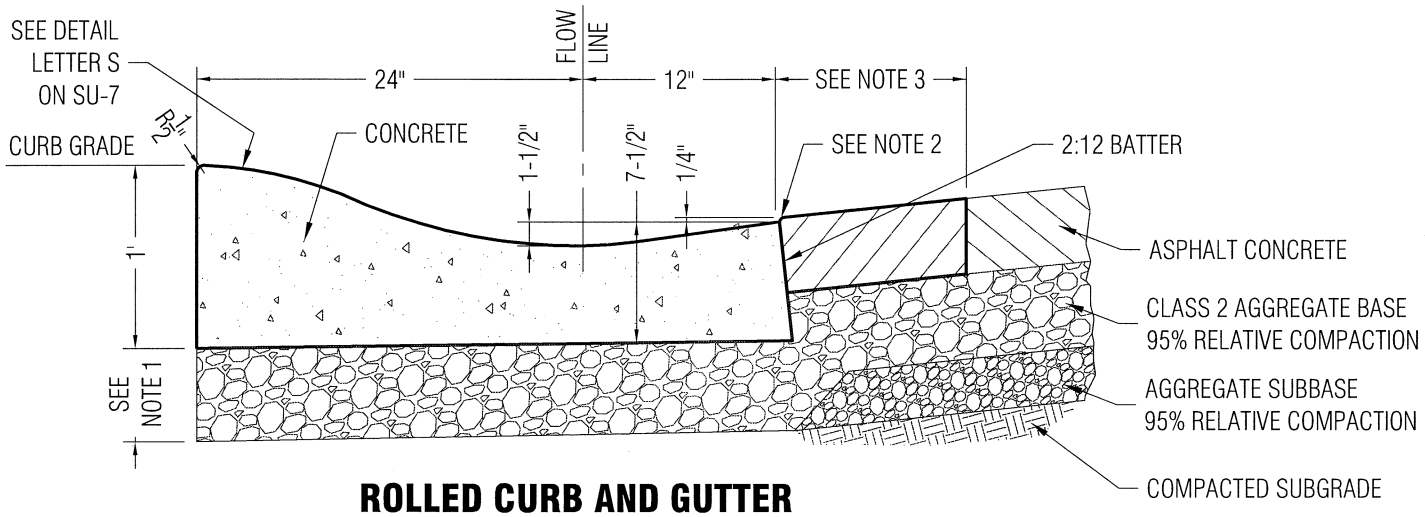
**DUCK-OUT PARKING DETAIL**

**SU-5**




## VERTICAL CURB AND GUTTER

SCALE: 1" = 1'




## ROLLED CURB AND GUTTER

SCALE: 1" = 1'

NOTES:

1. THICKNESS OF AGGREGATE BASE SHALL BE:
   * FOR NEW STREET SECTION: AS DETERMINED BY EXTENSION OF ROADWAY GRADING PLANE (6" MIN.)

   -OR-

   * FOR EXISTING STREET SECTION: 6"

2. EDGE OF PAVEMENT 1/4" ABOVE LIP (FOR 30" GUTTER, THE LIP SHALL BE 2-1/2" ABOVE FLOWLINE)

3. FOR NEW CURB & GUTTER INSTALLED ADJACENT TO EXISTING PAVEMENT, TWELVE INCHES (12") OF THE AC EDGE SHALL BE SAWCUT, REMOVED AND REPLACED WITH NEW AC PAVEMENT

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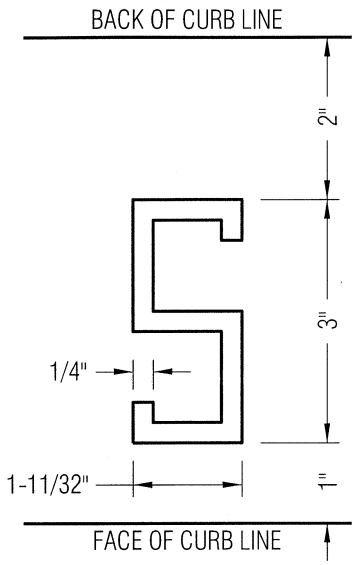
# ENGINEERING DIVISION

**VERTICAL AND ROLLED CURB AND GUTTER**

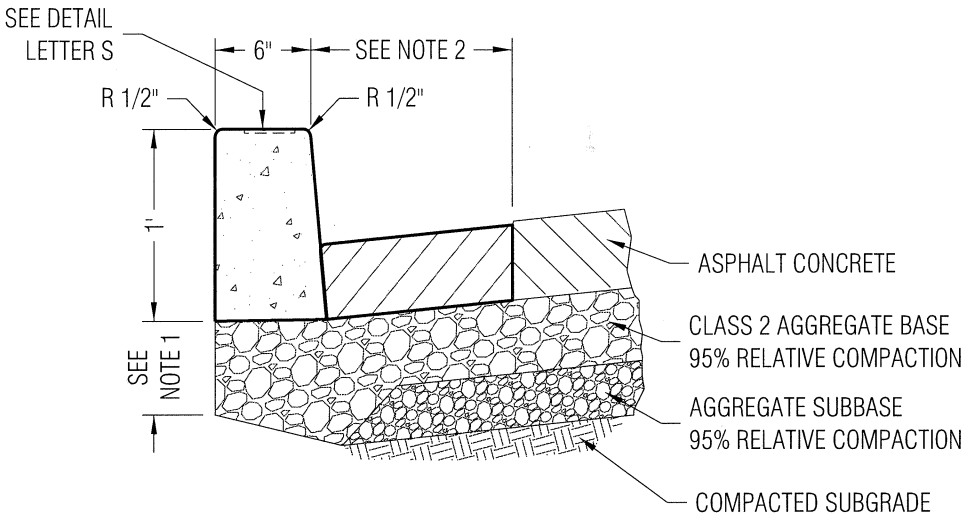
**SU-6**




## LETTER S

SCALE: NOT TO SCALE

THE LETTER "S" TO BE EMBEDDED 1/4" DEEP ON TOP OF CONCRETE CURB OVER SEWER LATERAL.



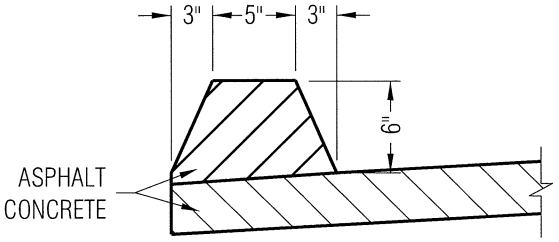

## VERTICAL CURB

SCALE: 1" = 1'

NOTES:

1. THICKNESS OF AGGREGATE BASE SHALL BE:
   * FOR NEW STREET SECTION: AS DETERMINED BY EXTENSION OF ROADWAY GRADING PLANE (6" MIN.),
     -OR-
   * FOR EXISTING STREET SECTION: 6"

2. FOR NEW CURB INSTALLED ADJACENT TO EXISTING PAVEMENT, TWELVE INCHES (12") OF THE AC EDGE SHALL BE SAWCUT, REMOVED AND REPLACED WITH NEW AC PAVEMENT




## AC CONCRETE BERM

SCALE: 1" = 1'

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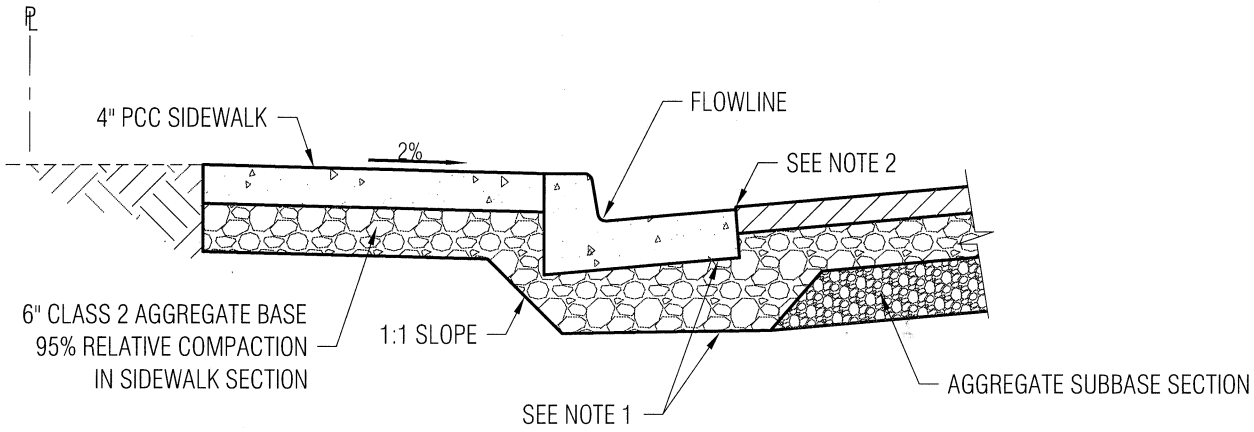
# ENGINEERING DIVISION

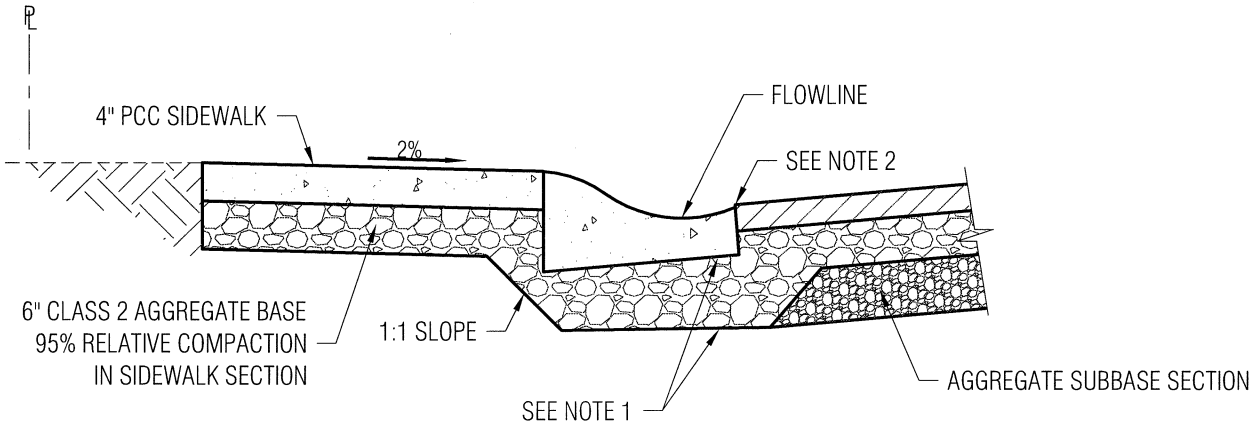
**VERTICAL CURB, ASPHALT CONCRETE BERM AND CURB STAMP**

**SU-7**




## SECTION THROUGH STANDARD SIDEWALK AND VERTICAL CURB

SCALE: NOT TO SCALE




## SECTION THROUGH STANDARD SIDEWALK AND ROLLED CURB

SCALE: NOT TO SCALE

## STANDARD CROSS SECTIONS

NOTES:

1. THICKNESS OF AGGREGATE BASE UNDER CURB & GUTTER SHALL BE:
   * FOR NEW STREET SECTION: AS DETERMINED BY EXTENSION OF ROADWAY GRADING PLANE (6" MIN.)

   OR

   * FOR EXISTING STREET SECTION: 6"

2. SEE VERTICAL CURB AND ROLLED CURB AND GUTTER DETAIL SU-6

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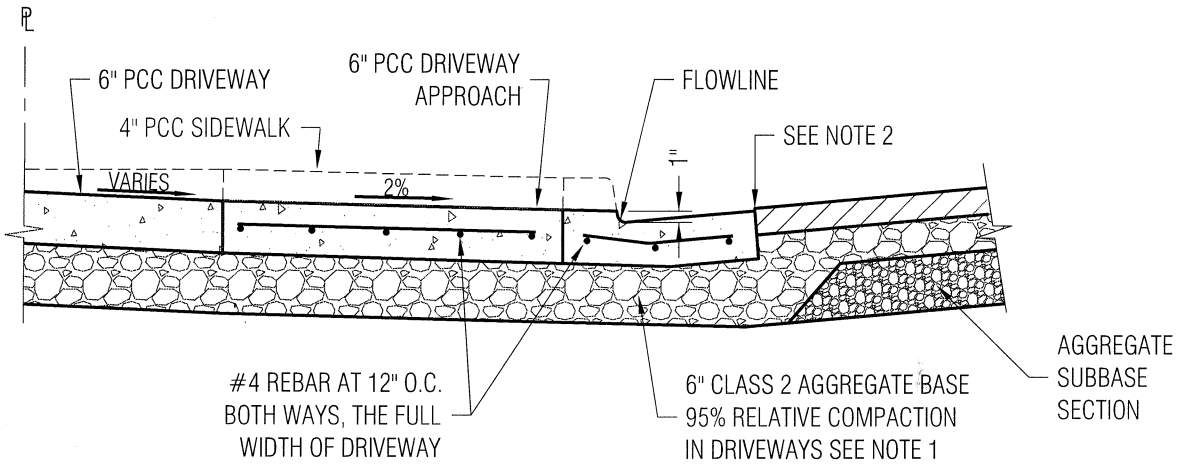
**ENGINEERING DIVISION**

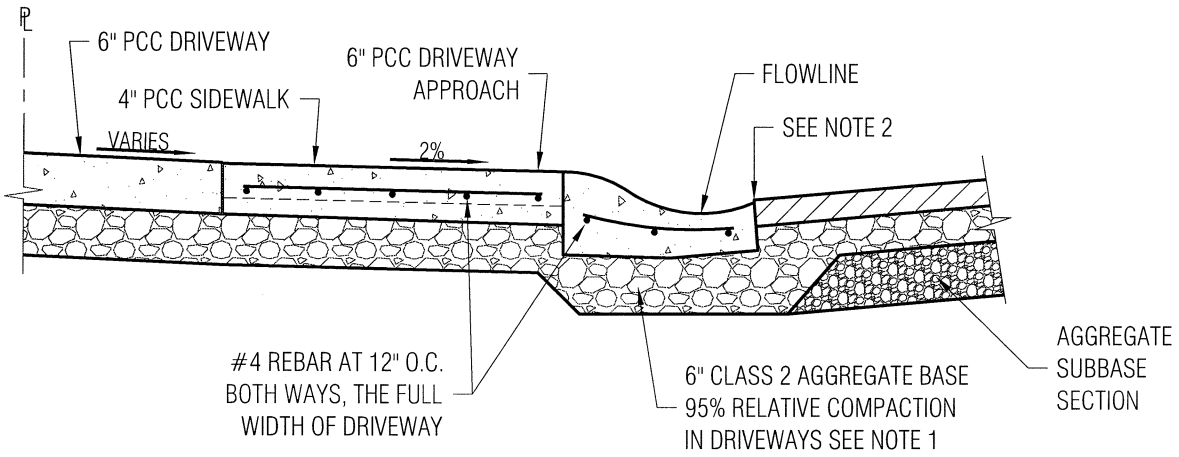
**SIDEWALK CROSS-SECTION**

**SU-8**




## SECTION THROUGH STANDARD DRIVEWAY APPROACH WITH VERTICAL CURB

SCALE: NOT TO SCALE




## SECTION THROUGH STANDARD DRIVEWAY APPROACH WITH ROLLED CURB

SCALE: NOT TO SCALE

## STANDARD CROSS SECTIONS

NOTES:

1. THICKNESS OF AGGREGATE BASE UNDER CURB & GUTTER SHALL BE:
   * FOR NEW STREET SECTION: AS DETERMINED BY EXTENSION OF ROADWAY GRADING PLANE (6" MIN.)

   OR

   * FOR EXISTING STREET SECTION: 6"

2. SEE VERTICAL CURB AND ROLLED CURB AND GUTTER DETAIL SU-6

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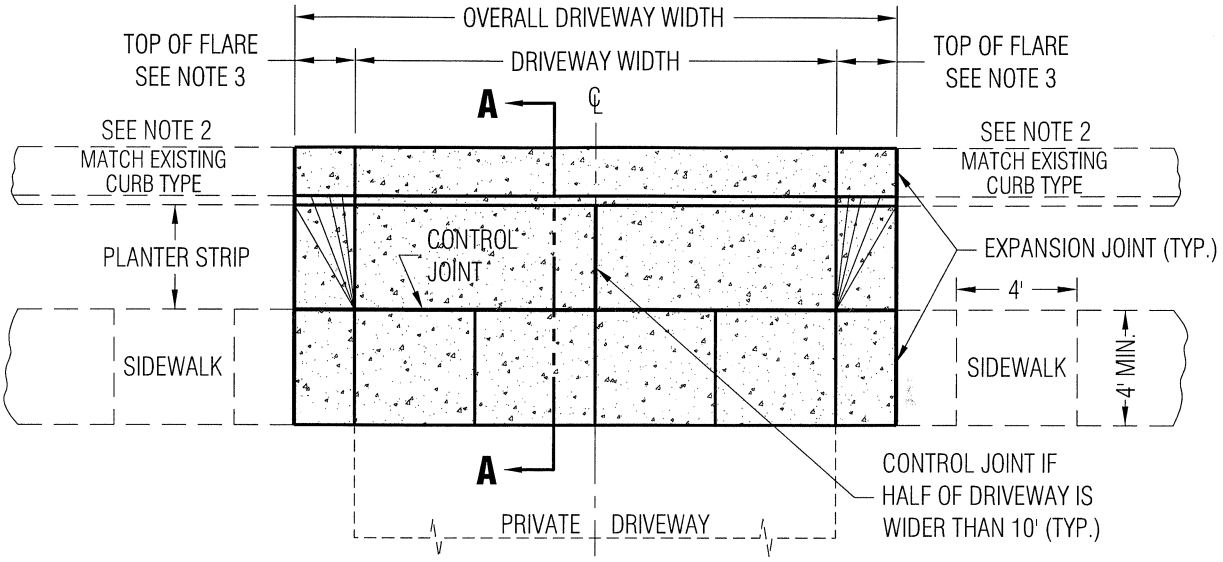
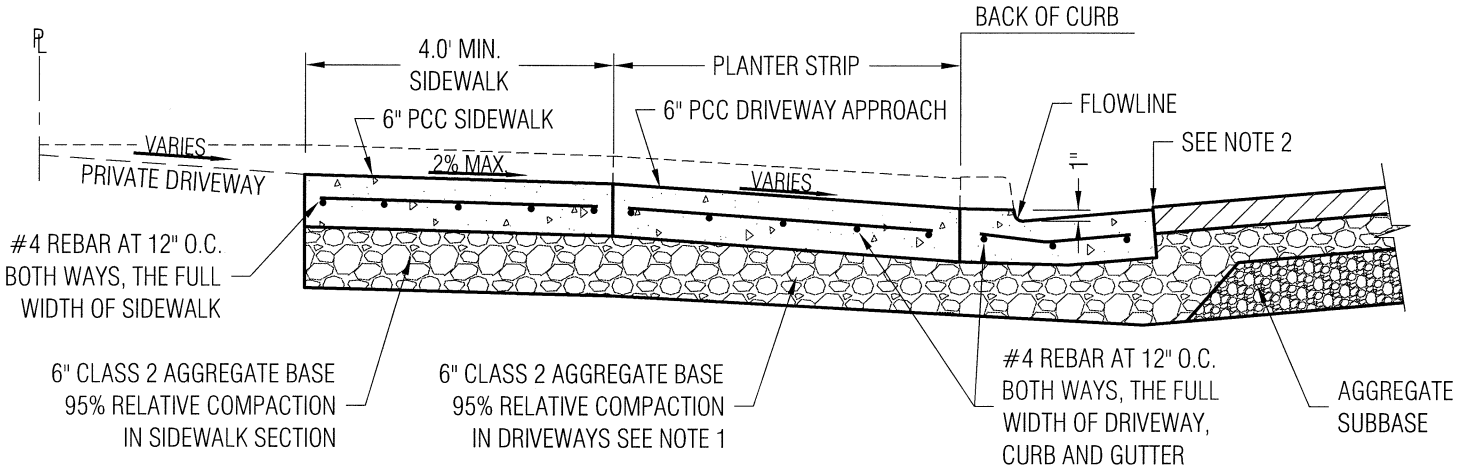
**ENGINEERING DIVISION**

**DRIVEWAY CROSS-SECTION**

**SU-9**




## PLAN




## SECTION A-A

## DETACHED SIDEWALK

SCALE: NOT TO SCALE

NOTES:

1. THICKNESS OF AGGREGATE BASE UNDER CURB AND GUTTER SHALL BE:
   * FOR NEW STREET SECTION: AS DETERMINED BY EXTENSION OF ROADWAY GRADING PLANE (6" MIN.) OR
   * FOR EXISTING STREET SECTION: 6"
2. SEE VERTICAL CURB AND ROLLED CURB AND GUTTER DETAIL SU-6
3. DRIVEWAY FLARE WIDTH:
   1.5' FOR RESIDENTIAL
   3.0' FOR COMMERCIAL & INDUSTRIAL
   MUST BE ADA COMPLIANT

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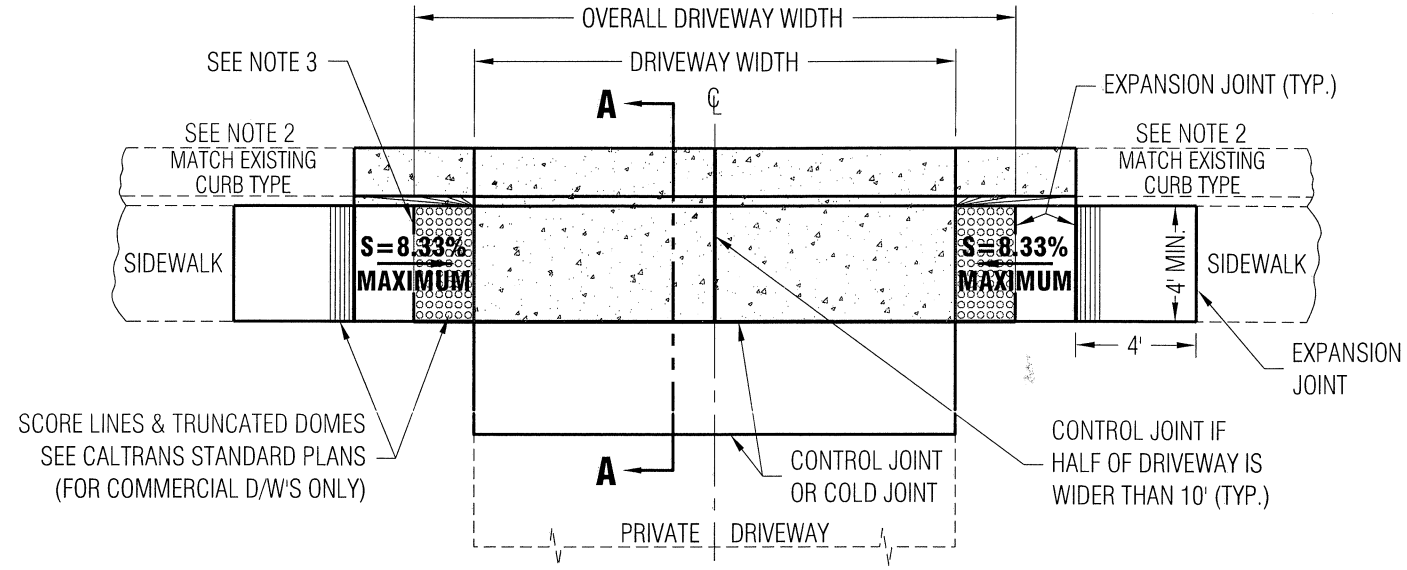
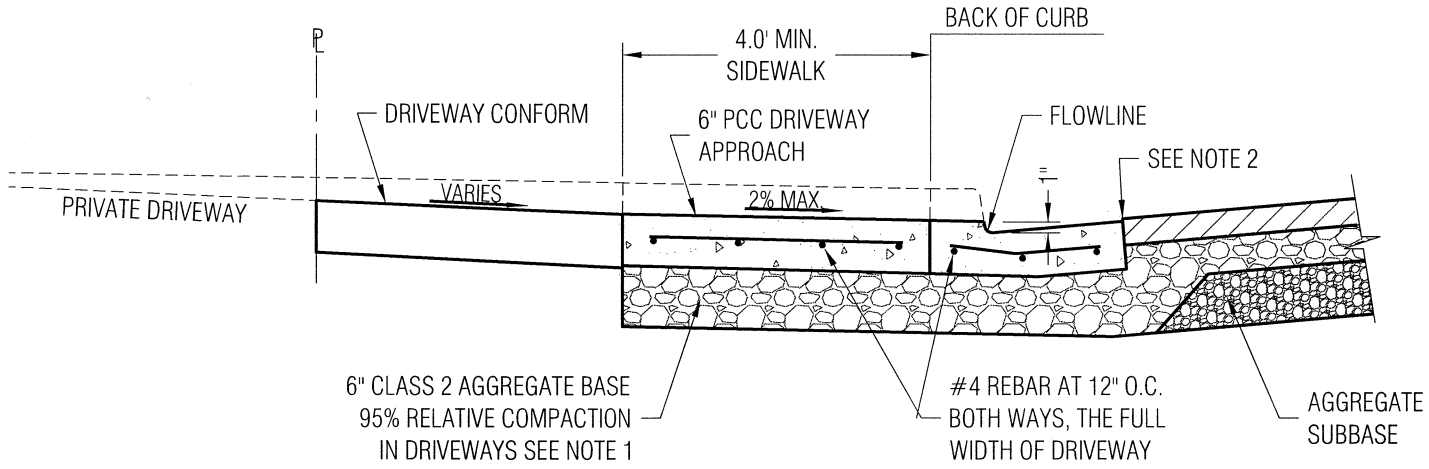
**ENGINEERING DIVISION**

**DRIVEWAY DETAIL WITH PLANTER STRIP AND DETACHED SIDEWALK**

**SU-10**




## PLAN




## SECTION A-A

# ATTACHED CURB, GUTTER AND SIDEWALK

SCALE: NOT TO SCALE

NOTES:

1. THICKNESS OF AGGREGATE BASE UNDER CURB AND GUTTER SHALL BE:
   * FOR NEW STREET SECTION: AS DETERMINED BY EXTENSION OF ROADWAY GRADING PLANE (6" MIN.)
   -OR-
   * FOR EXISTING STREET SECTION: 6"
2. SEE VERTICAL CURB AND ROLLED CURB AND GUTTER DETAIL SU-6
3. DRIVEWAY FLARE WIDTH:
   1.5' FOR RESIDENTIAL
   3.0' FOR COMMERCIAL & INDUSTRIAL

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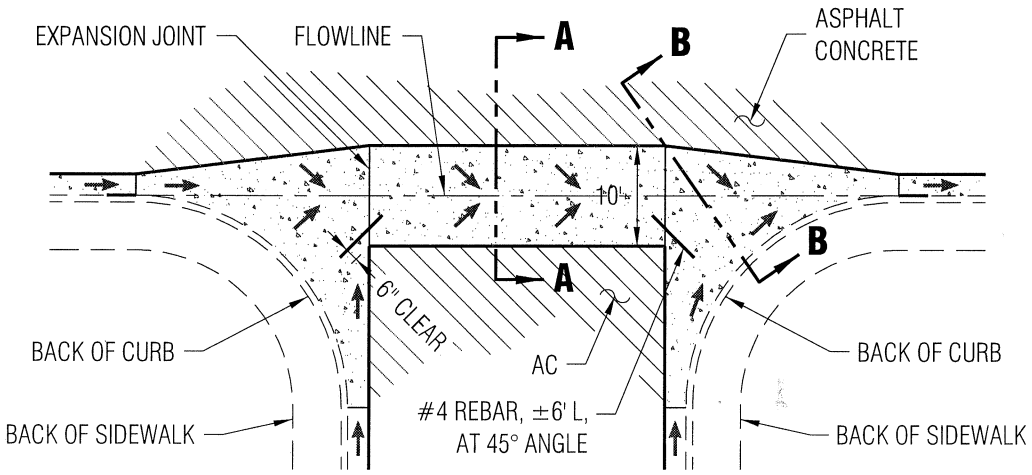
**ENGINEERING DIVISION**

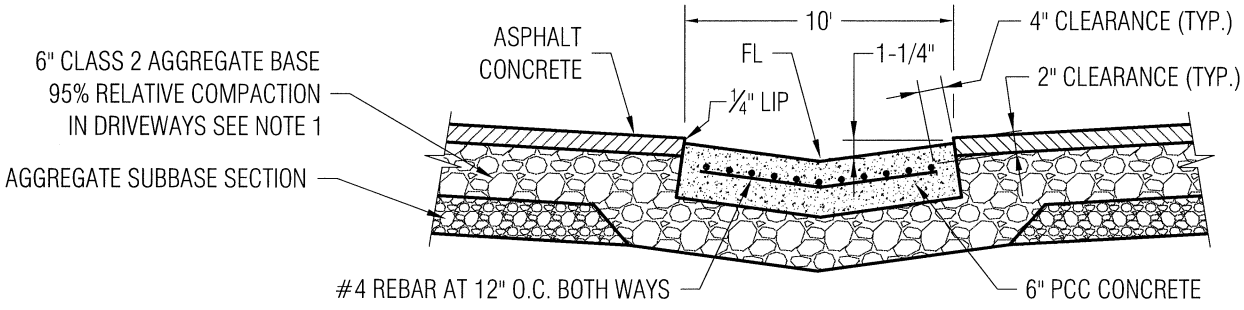
**DRIVEWAY DETAIL WITH ATTACHED SIDEWALK**

**SU-11**



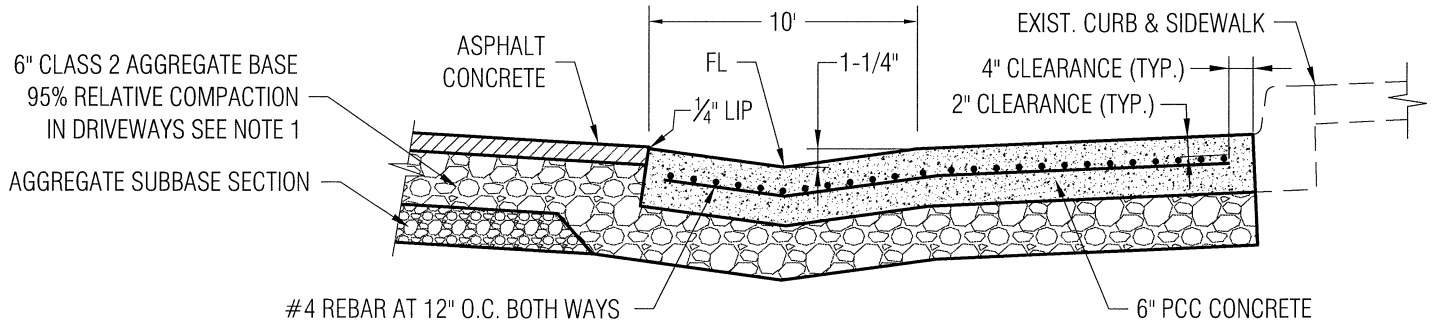

## CONCRETE APRON AND VALLEY GUTTER

NTS




## SECTION A-A - VALLEY GUTTER

NTS




## SECTION B-B - CONCRETE APRON

NTS

NOTES: 1. THICKNESS OF AGGREGATE BASE UNDER THE GUTTER SHALL BE:
* FOR NEW STREET SECTION: AS DETERMINED BY EXTENSION OF ROADWAY GRADING PLANE (6" MIN.), OR
* FOR EXISTING STREET SECTION: 6"

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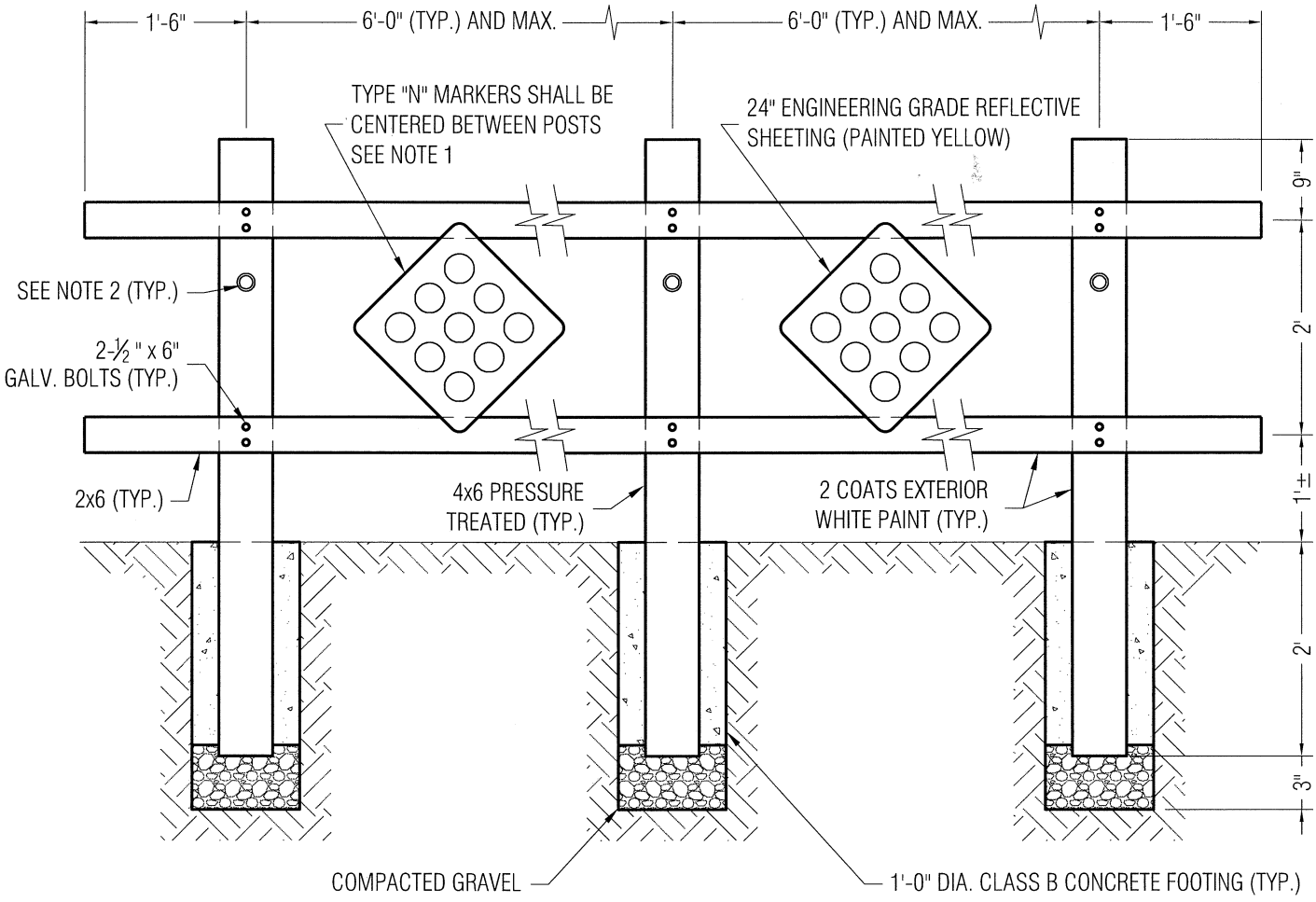
# ENGINEERING DIVISION

**STREET INTERSECTION VALLEY GUTTER AND CONCRETE APRON**

**SU-12**




DRAWING: NOT TO SCALE

NOTES:

1. TYPE N-4 MARKERS (CALTRANS) WITH AMBER PLASTIC REFLECTORS FOR BARRICADE ON THE SIDES OF THE STREET.
   TYPE N-5 MARKERS WITH RED PLASTIC REFLECTORS FOR BARRICADE AT THE DEAD-END OF THE STREET.

2. AMBER PLASTIC DISK FOR BARRICADE ON THE SIDES OF THE STREET.
   RED PLASTIC DISK BARRICADE AT DEAD-END OF STREET.

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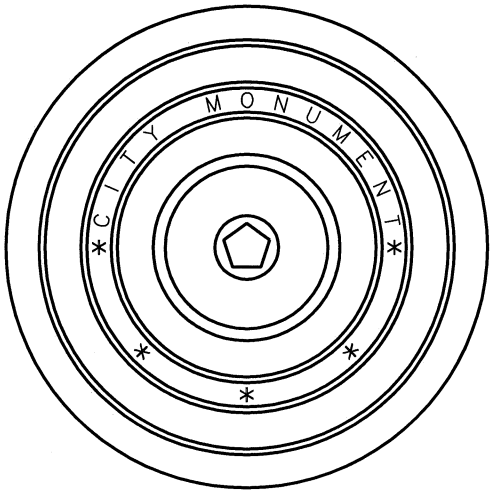
# ENGINEERING DIVISION

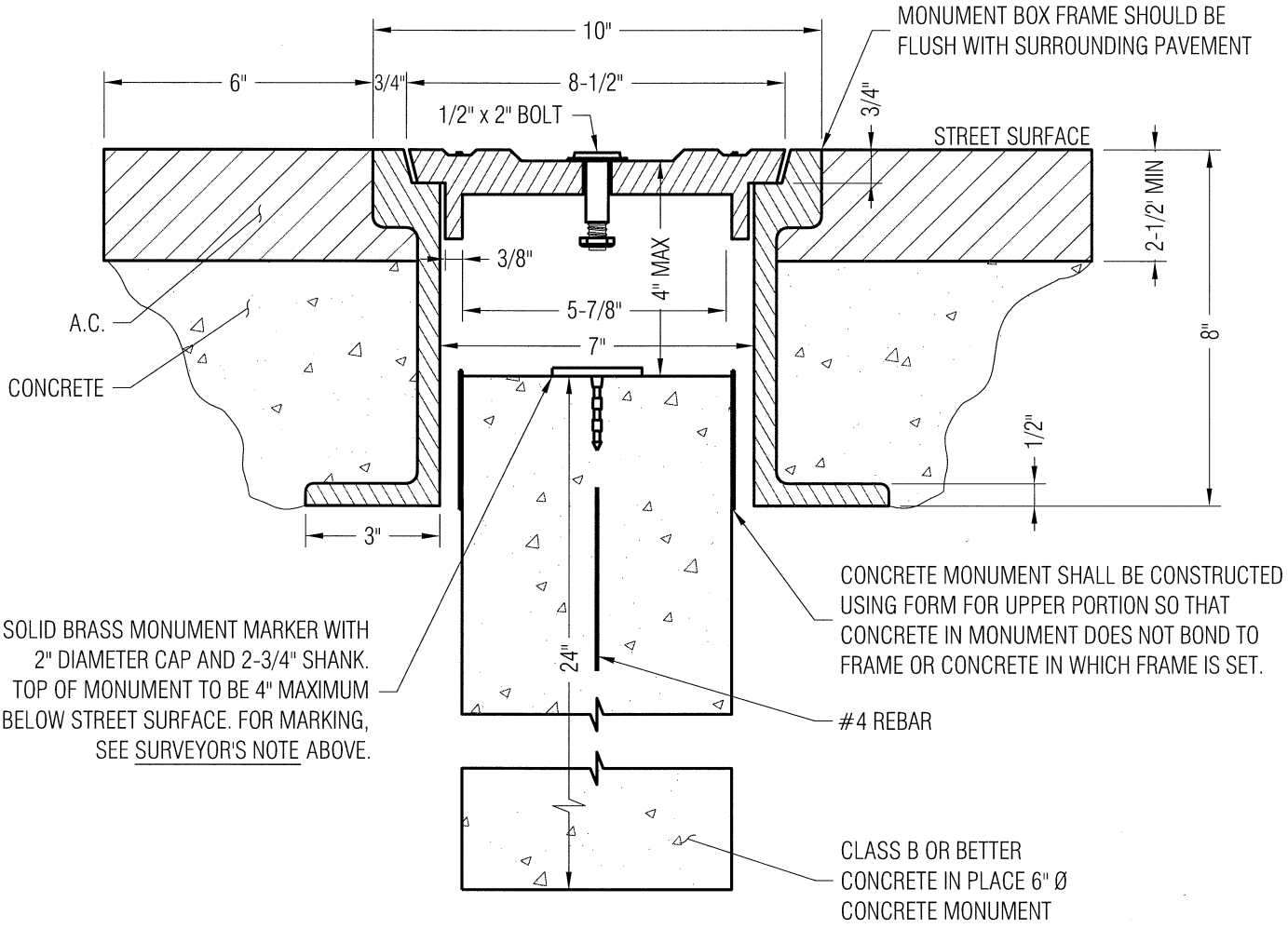
## STREET BARRICADE

## SU-13

FRAME AND COVER - EMPIRE FOUNDARY CO. NO. MN-78, PHOENIX IRON WORKS NO P-2001, OR APPROVED EQUAL OVER MONUMENT. FRAME AND COVER TO BE SET IN CONCRETE AFTER PAVING.




SURVEYOR'S NOTE:
EXACT POINT TO BE DETERMINED BY SURVEY AND CLEARLY PUNCHED IN TOP BRASS MARKER TOGETHER WITH ENGINEER'S R.C.E. OR SURVEYOR'S R.L.S. NUMBER IN 1/8" HIGH NUMERALS

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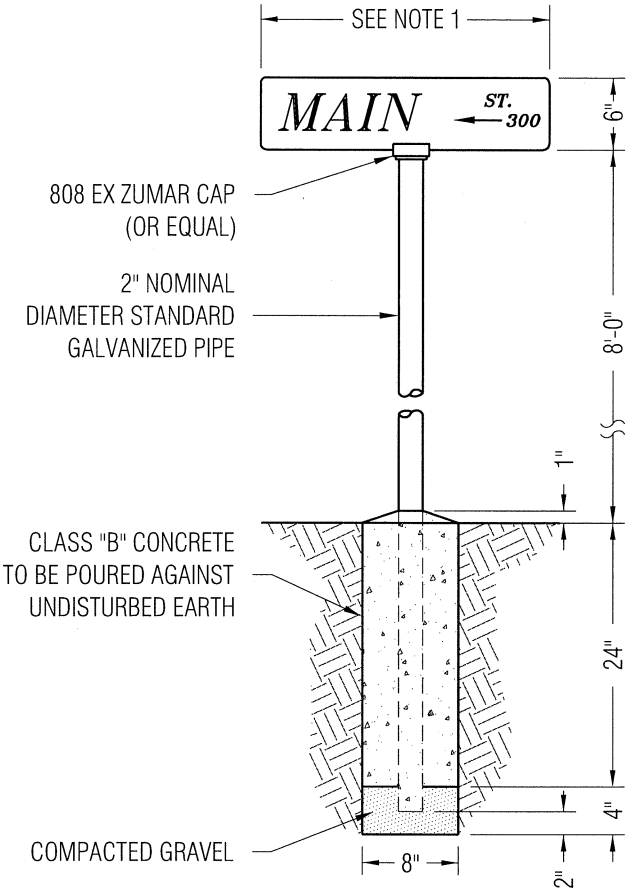
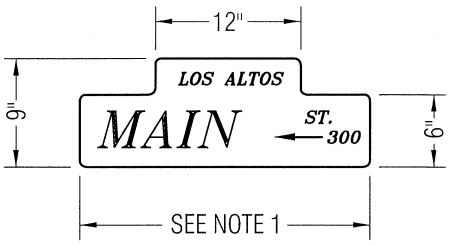
# ENGINEERING DIVISION

## SURVEY MONUMENT

## SU-14




ABOVE PLATE TO BE USED AT CITY LIMITS
WITH "LOS ALTOS" IN 2" LETTERS

## STANDARD STREET SIGN

SCALE: NOT TO SCALE

NOTES:

1. PLATES TO BE 0.080 GAUGE ALUMINUM, WIDTH VARIES IN 6" INCREMENTS FROM A MINIMUM OF 24" TO A MAXIMUM OF 36" x 6" IN HEIGHT. CORNER RADIUS IS 0.5", WITHOUT HOLES.
2. SIGN IS SINGLE PLATE, DOUBLE FACE, WITH 3M WHITE 3290 ENGINEER GRADE REFLECTIVE SHEETING OVERLAYED BY 3M 1179 TRANSPARENT FILM FOR OPAQUE BROWN BACKGROUND. LETTERS ARE 3M 3290 WHITE REFLECTIVE ENGINEER GRADE SHEETING APPLIED OVER THE 1179 FILM.
3. LETTER STYLE IS GARAMOND BOLD ITALIC CONDENSED. 4" ALL UPPERCASE FOR STREET NAME; 2" ALL UPPERCASE FOR SUFFIX & BLOCK NUMBER. SUFFIX IS CENTERED OVER "ARROW" AND BLOCK NUMBER WITH 0.75" SPACE BETWEEN LINES.

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

| REVISION | |
|---|---|
| Description | Date |
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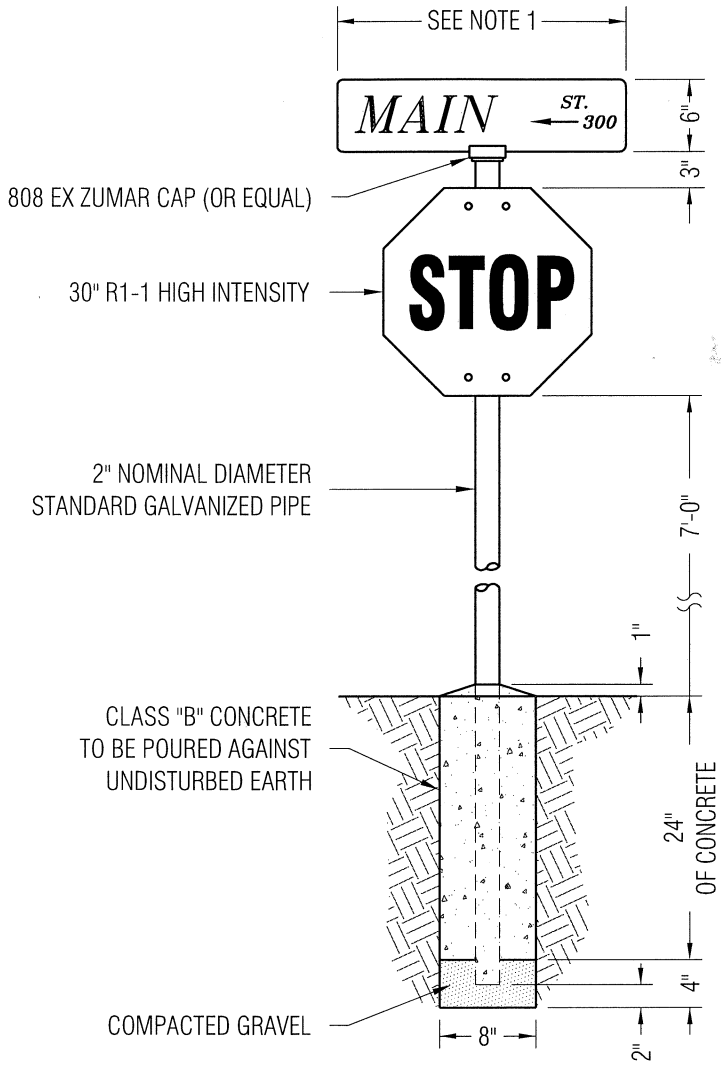
**ENGINEERING DIVISION**

**STREET SIGN**

**SU-15**




## COMBINED STOP SIGN & STREET SIGN

SCALE: NOT TO SCALE

NOTES:

1. PLATES TO BE 0.080 GAUGE ALUMINUM, WIDTH VARIES IN 6" INCREMENTS FROM A MINIMUM OF 24" TO A MAXIMUM OF 36" x 6" IN HEIGHT. CORNER RADIUS IS 0.5", WITHOUT HOLES.
2. SIGN IS SINGLE PLATE, DOUBLE FACE, WITH 3M WHITE 3290 ENGINEER GRADE REFLECTIVE SHEETING OVERLAYED BY 3M 1179 TRANSPARENT FILM FOR OPAQUE BROWN BACKGROUND. LETTERS ARE 3M 3290 WHITE REFLECTIVE ENGINEER GRADE SHEETING APPLIED OVER THE 1179 FILM.
3. LETTER STYLE IS GARAMOND BOLD ITALIC CONDENSED. 4" ALL UPPERCASE FOR STREET NAME; 2" ALL UPPERCASE FOR SUFFIX & BLOCK NUMBER. SUFFIX IS CENTERED OVER "ARROW" AND BLOCK NUMBER WITH 0.75" SPACE BETWEEN LINES.
4. STOP SIGN SHALL BE INSTALLED WITH TWO MOUNTING BRACKETS USING U-BOLTS AND THEFT-PROOF BOLTS.

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

| REVISION | |
|---|---|
| Description | Date |
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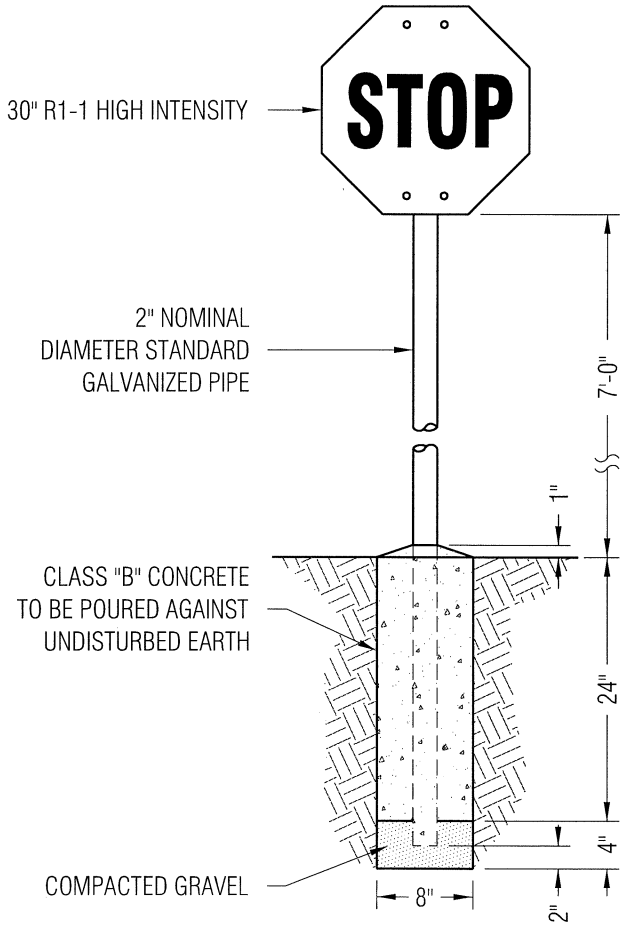
**ENGINEERING DIVISION**

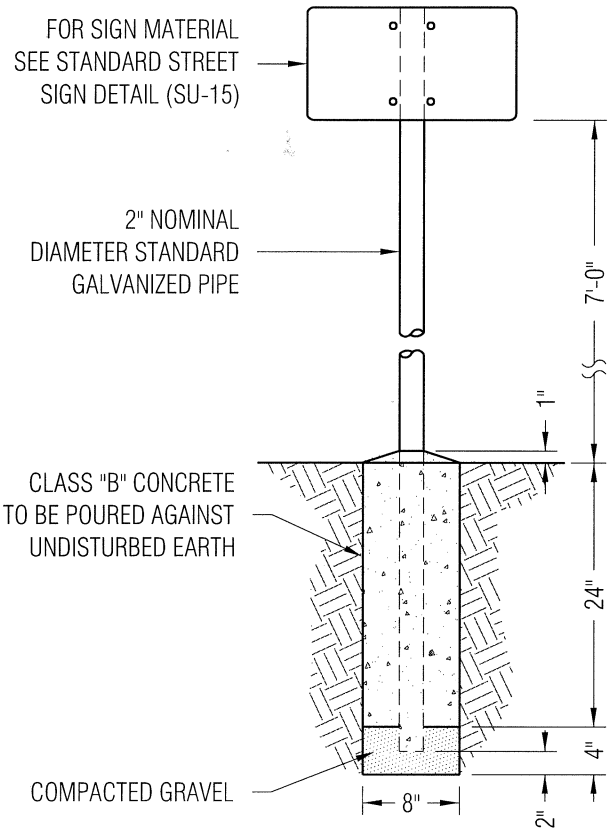
**COMBINED STOP SIGN & STREET SIGN**

**SU-16**




## STANDARD STOP SIGN

SCALE: NOT TO SCALE




## WARNING & REGULATORY SIGNS

SCALE: NOT TO SCALE

NOTES:

1. STOP SIGN SHALL BE 30" R1-1 HIGH INTENSITY.

2. SIGNS SHALL BE INSTALLED WITH TWO MOUNTING BRACKETS USING U-BOLTS AND THEFT-PROOF BOLTS.

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1 · 1952

| REVISION | |
|---|---|
| Description | Date |
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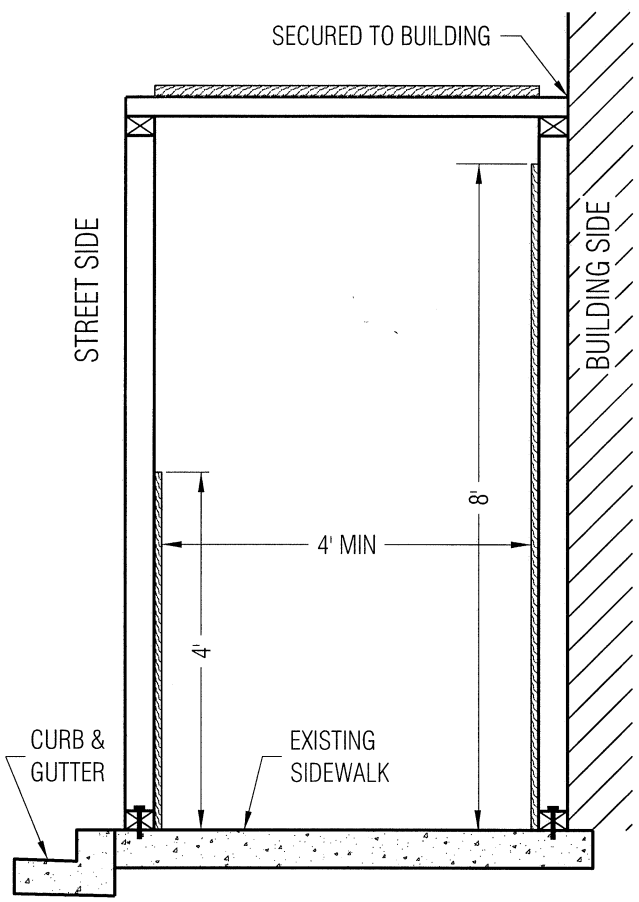
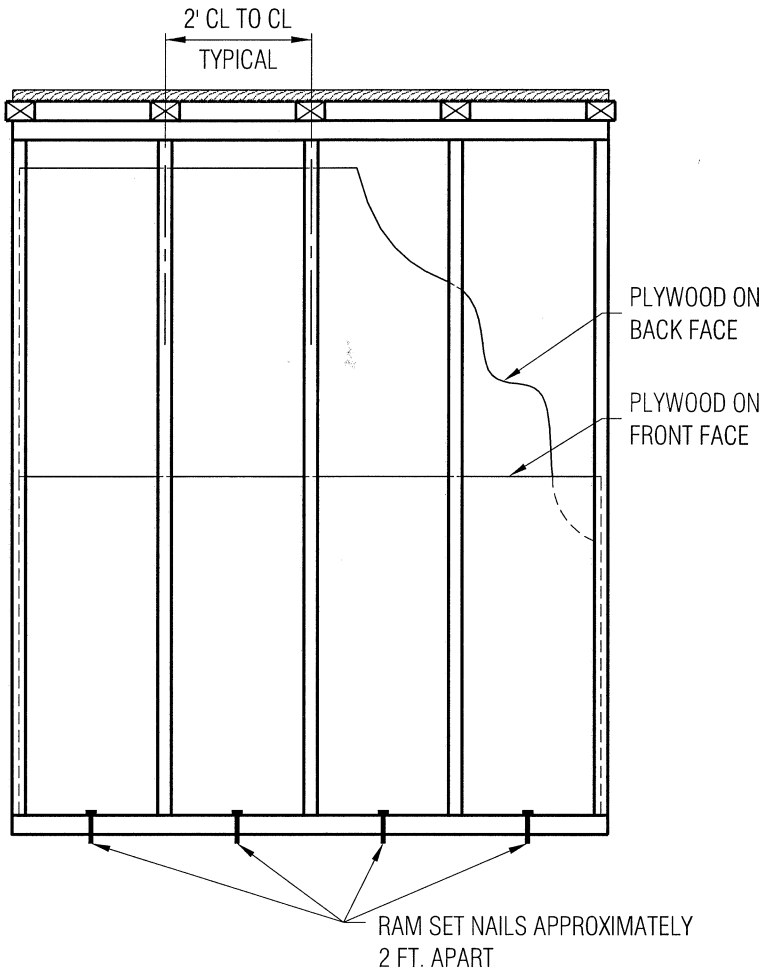
# ENGINEERING DIVISION

**STOP, WARNING AND REGULATORY SIGNS**

**SU-17**




## END VIEW

## FRONT VIEW

NOTES:

1. PEDESTRIAN SAFETY TUNNEL TO BE EXTENDED A MINIMUM OF 8 FT. BEYOND SCAFFOLDING.

2. ALL HOLES RESULTING FROM RAM SET NAILS IN EXISTING SIDEWALK MUST BE FILLED TO THE SATISFACTION OF THE CITY ENGINEER.

3. PEDESTRIAN TUNNEL TO BE MADE FROM THE FOLLOWING MATERIAL:
   a. 2x4 DOUGLAS FIR #2 GRADE OR BETTER.
   b. 4' x 8' x 1/2" CDX PLYWOOD, EXTERIOR GRADE FOR SIDES AND 3/4" FOR TOP.

4. CONSTRUCTION OF TUNNEL TO MEET OSHA & ALL OTHER GOVERNING CODES.

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

| REVISION | |
|---|---|
| Description | Date |
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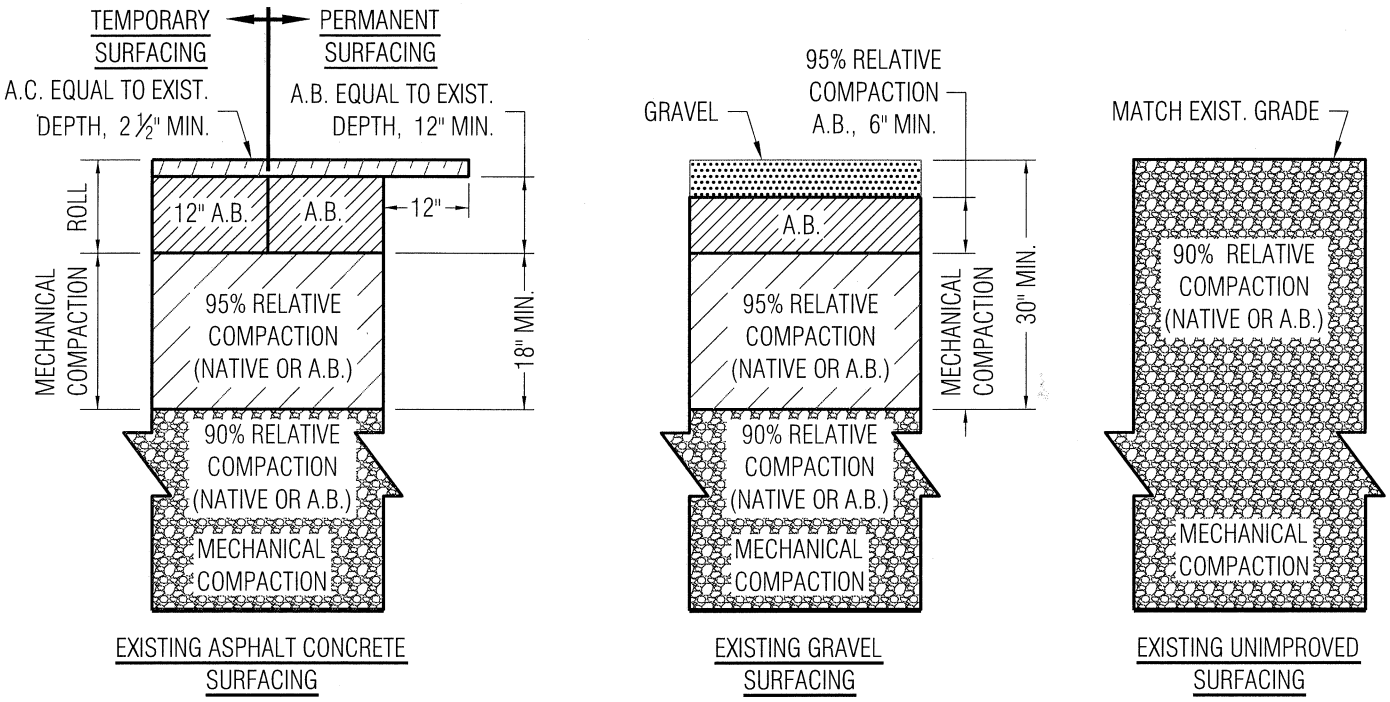
**ENGINEERING DIVISION**

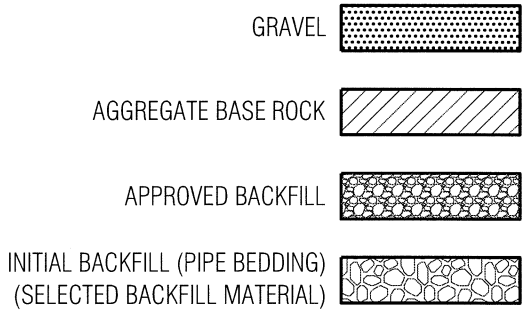
**TEMPORARY PEDESTRIAN SAFETY TUNNEL**

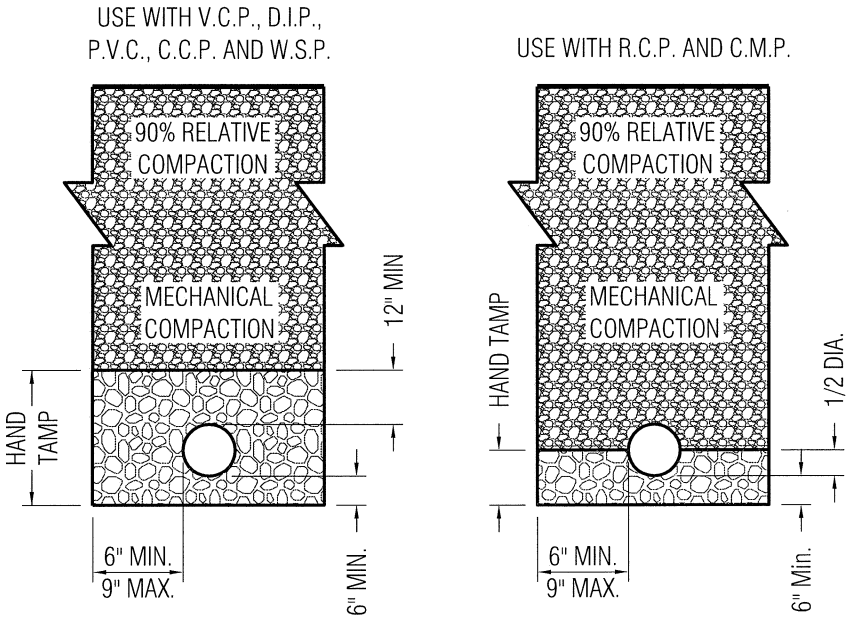
**SU-18**




## TRENCH PAVING SECTIONS

NOTE:
1. CONTROL DENSITY BACKFILL (CDF) MAY BE USED UPON APPROVAL BY CITY ENGINEER (SEE STANDARD SPECS)




## PIPE BEDDING

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS, CALIFORNIA · INCORPORATED DECEMBER 1, 1952

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|---|---|
| Description | Date |
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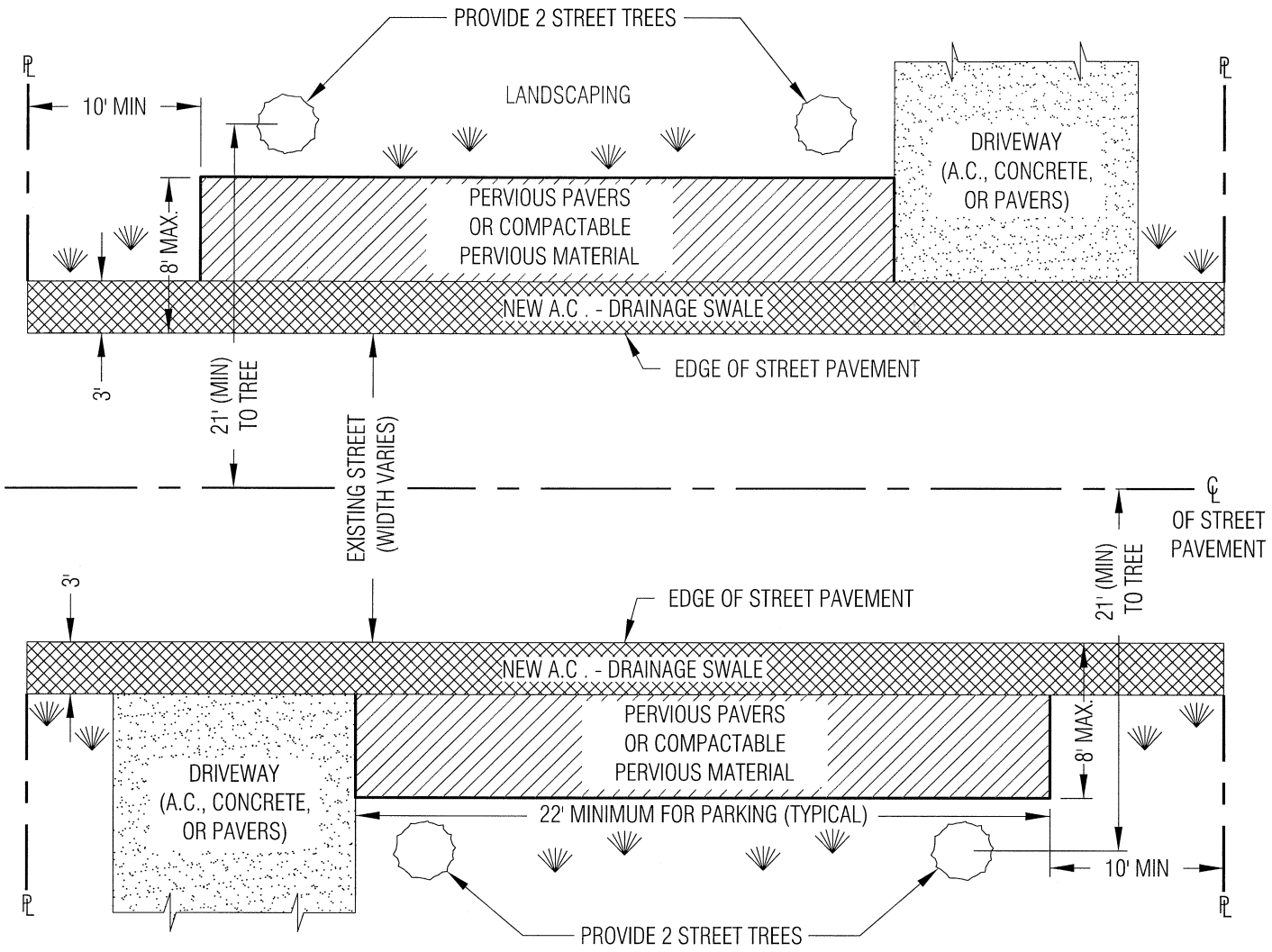
# ENGINEERING DIVISION

**TRENCH PAVING, BACKFILL AND PIPE BEDDING SECTIONS**

**SU-19**




## PLAN VIEW

LEGEND:

| | |
|---|---|
| A.C. | ASPHALT CONCRETE |
| PL | PROPERTY LINE |
| CL | CENTERLINE |
| | EXISTING OR NEW LANDSCAPING |
| | STREET TREE (NEW OR EXISTING) |
| | NEW PERMEABLE SURFACE |
| | NEW A.C. - DRAINAGE SWALE |

NOTES:

1. **IF THE STREET PAVEMENT WIDTH IS 36 FEET OR GREATER,** NO SHOULDER IMPROVEMENTS ARE PERMITTED WITH THE EXCEPTION OF LANDSCAPING AND IRRIGATION.
2. POLICY DOES NOT APPLY FOR REPAIRS, RESEALING, AND REPAVING IN KIND OF EXISTING SHOULDERS, NOR DOES IT REQUIRE THAT SHOULDERS MUST BE PAVED.
3. THE SHOULDER OF A NEWLY CONSTRUCTED OR 50% OR GREATER SQUARE FOOTAGE REMODELED RESIDENCE IS REQUIRED TO BE BROUGHT INTO COMPLIANCE WITH THIS POLICY.

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

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|---|---|
| Description | Date |
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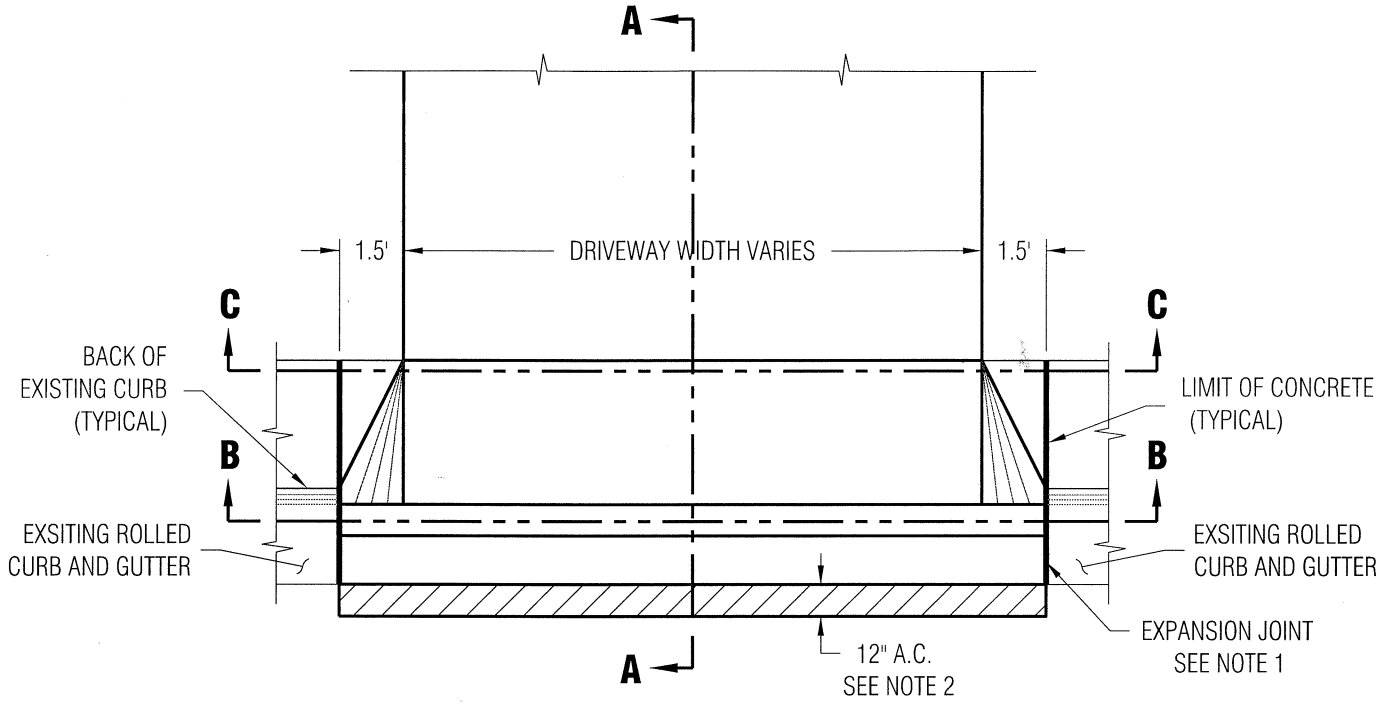
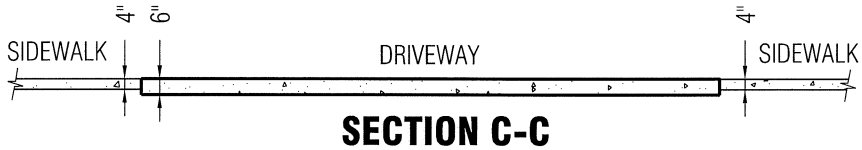
# ENGINEERING DIVISION

## SHOULDER PAVING POLICY

## SU-20

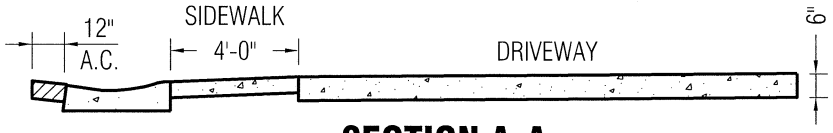



## PLAN VIEW

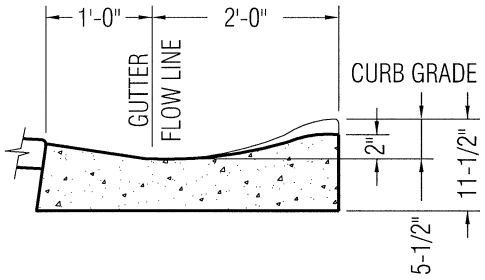



## SECTION C-C


## SECTION B-B




## SECTION A-A




## MODIFIED ROLLED CURB

NOTES:

1. SAW CUT TO THE NEXT SCORE MARK AS DETERMINED BY THE ENGINEER.

2. SAW CUT AND REMOVE EXISTING PAVEMENT SECTION. REPLACE WITH NEW CL2 A.B. ROCK AND MIN. 3" A.C. AFTER CONCRETE FORMS HAVE BEEN REMOVED.

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

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|---|---|
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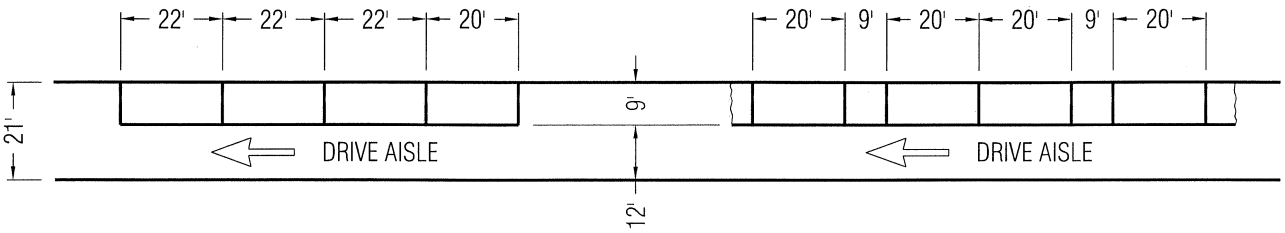
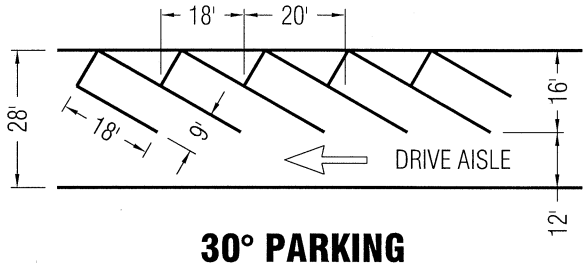
**ENGINEERING DIVISION**

**ROLLED CURB AND SIDEWALK MODIFICATION AT DRIVEWAY**

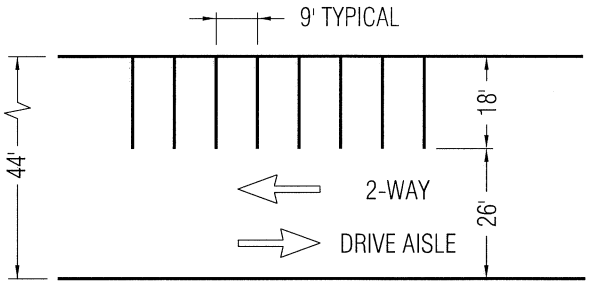
**SU-21**



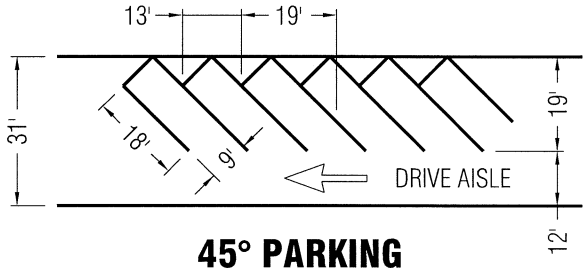

## PARALLEL PARKING ALTERNATES



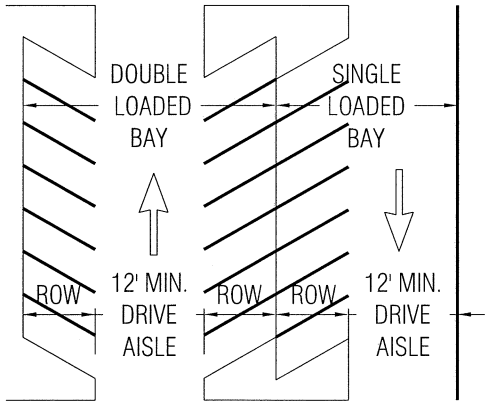

## 30° PARKING



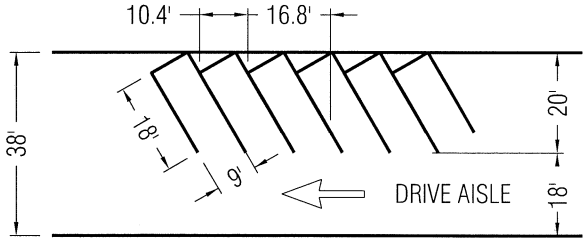

## 90° PARKING




## 45° PARKING




## ONE WAY




## 60° PARKING

Approved: _____ City Engineer 1/4/10 Date

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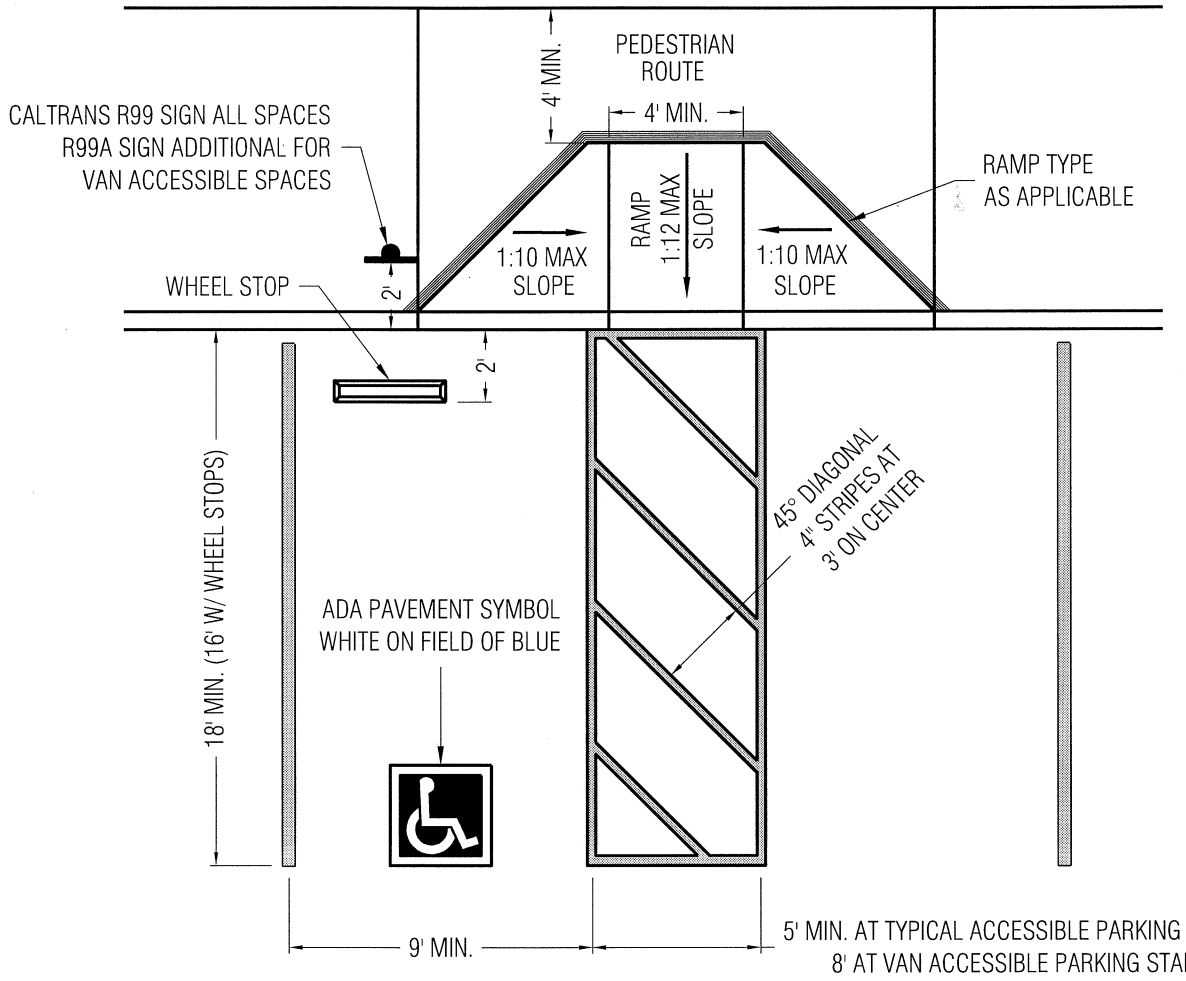
|---|---|---|
| CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1 · 1952 | REVISION | **ENGINEERING DIVISION** |
| | Description / Date | **PARKING STALL DETAILS** — **SU-22** |




NOTE:
REFER TO CALTRANS STANDARD DRAWINGS FOR ALL OTHER ACCESSIBLE PARKING DETAILS.

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

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| Description | Date |
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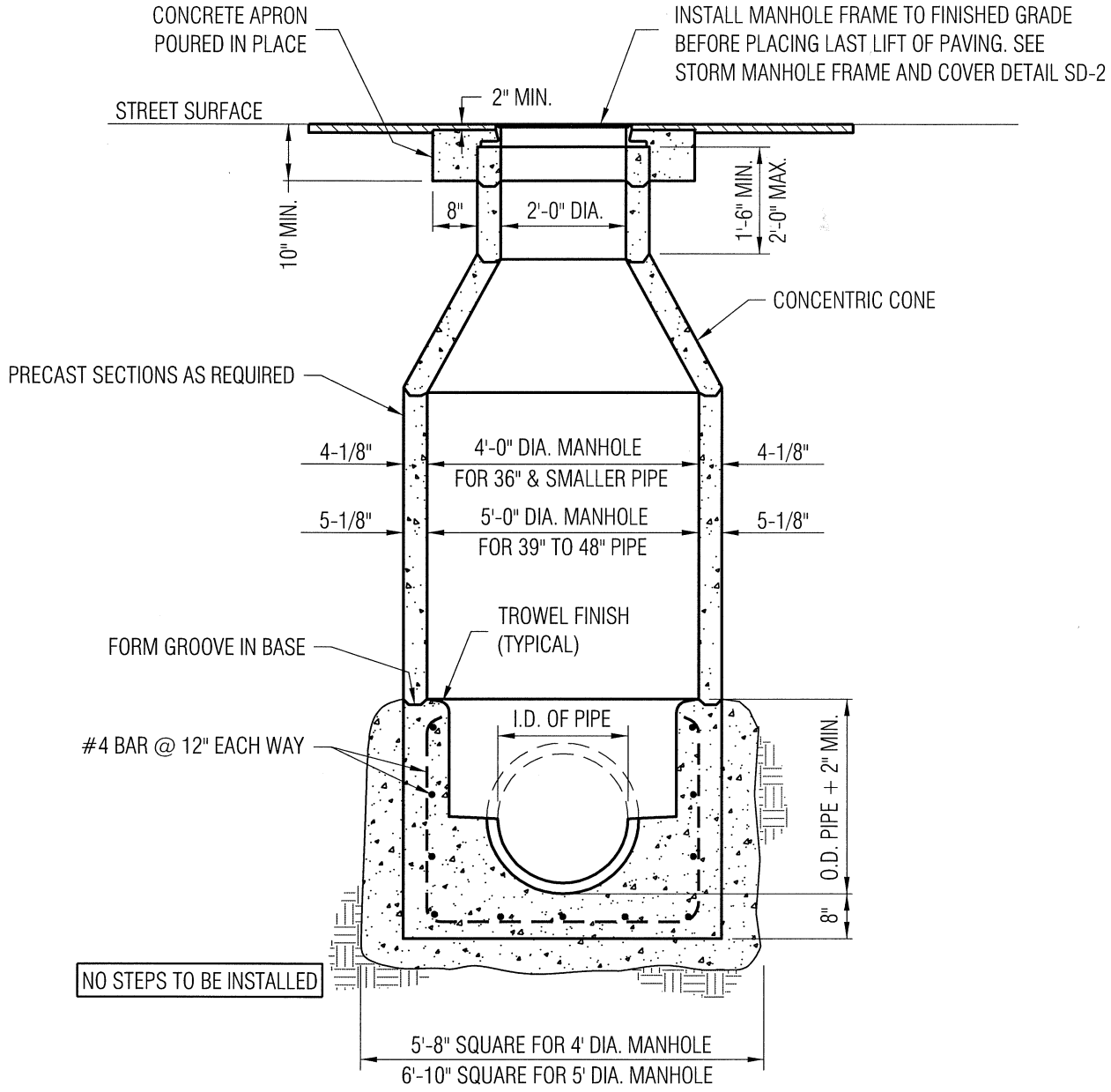
# ENGINEERING DIVISION

## ADA PARKING STALL DETAILS

## SU-23




NOTE:

1. LAY PIPE THRU BOTTOM OF MANHOLES. AFTER CONCRETE IN BASE HAS SET, KNOCK OUT PORTION OF PIPE INDICATED WITH DASHED LINES. (FOR BRANCHED BASE SEE SD-3)

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

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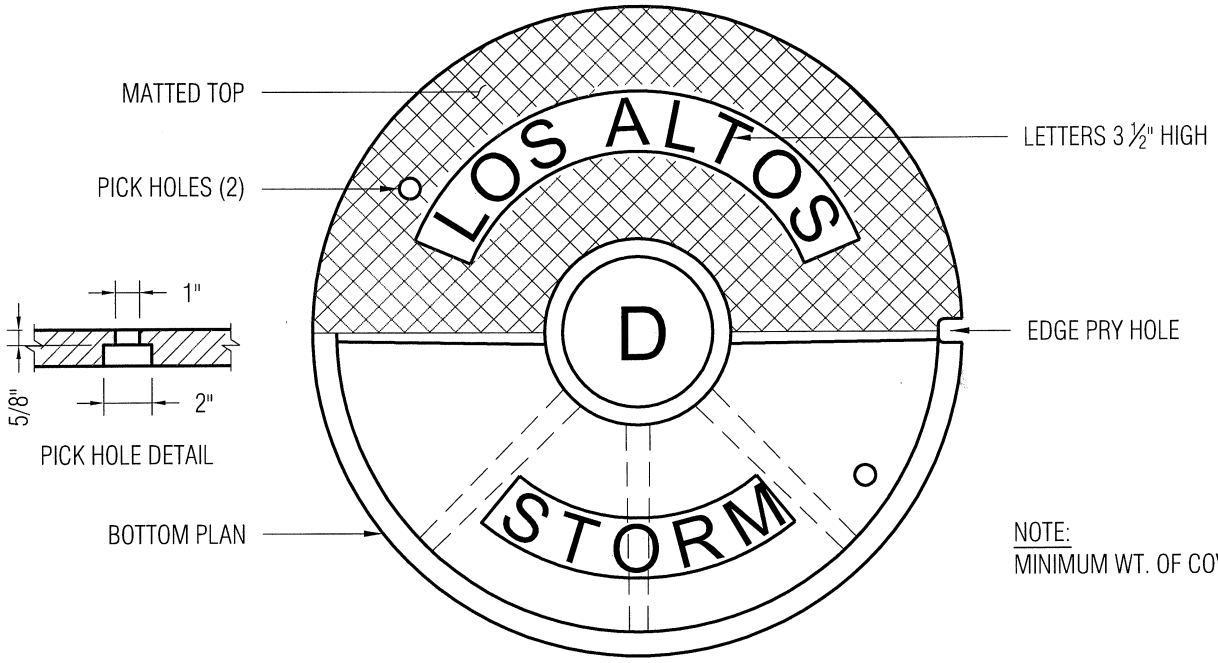
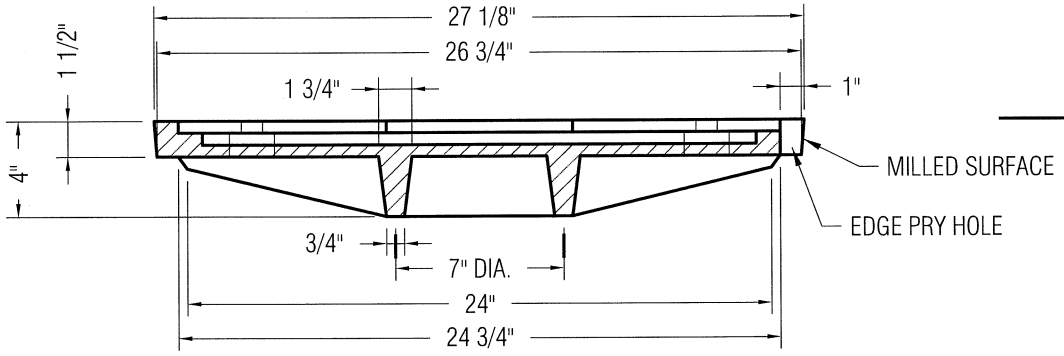
**ENGINEERING DIVISION**

**STORM DRAIN MANHOLE (CONCENTRIC CONE)**

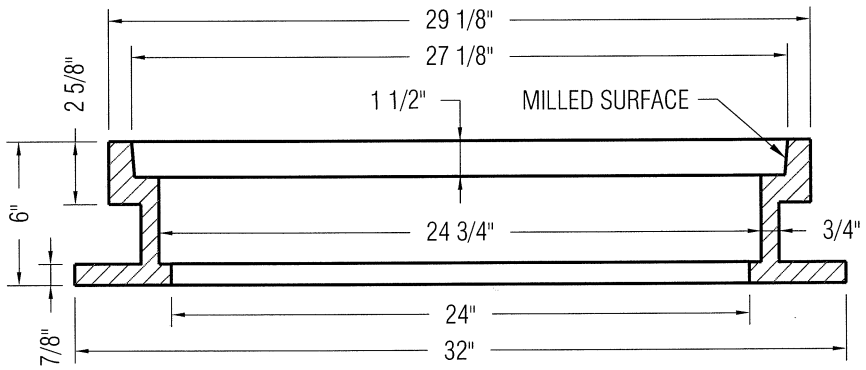
**SD-1**




NOTE:
MINIMUM WT. OF COVER 225 LBS.




**COVER**




**FRAME**

## SECTION THRU COVER & FRAME

NOTE:
MINIMUM WT. OF FRAME 190 LBS.

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

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|---|---|
| Description | Date |
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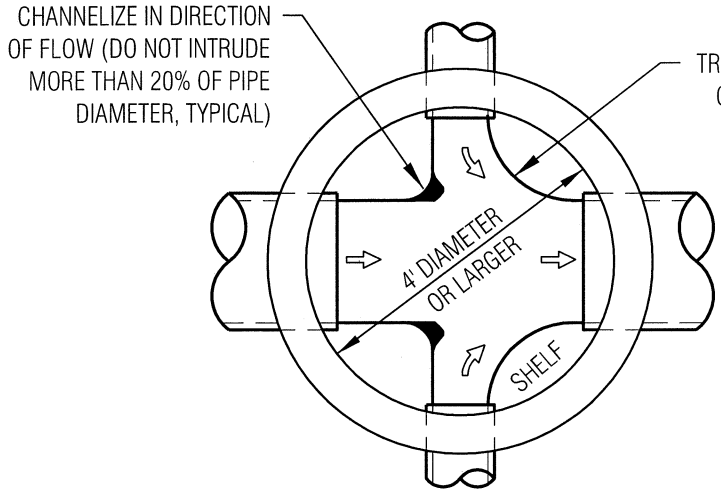
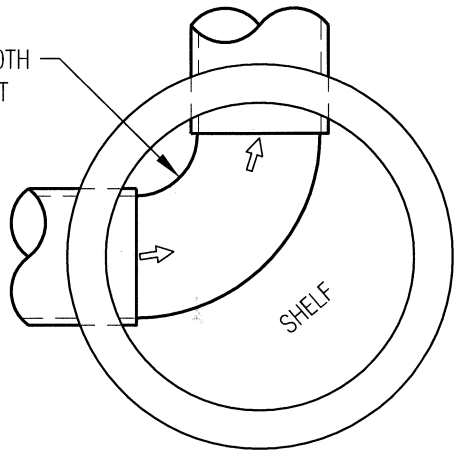
**ENGINEERING DIVISION**

**STORM MANHOLE FRAME AND COVER**

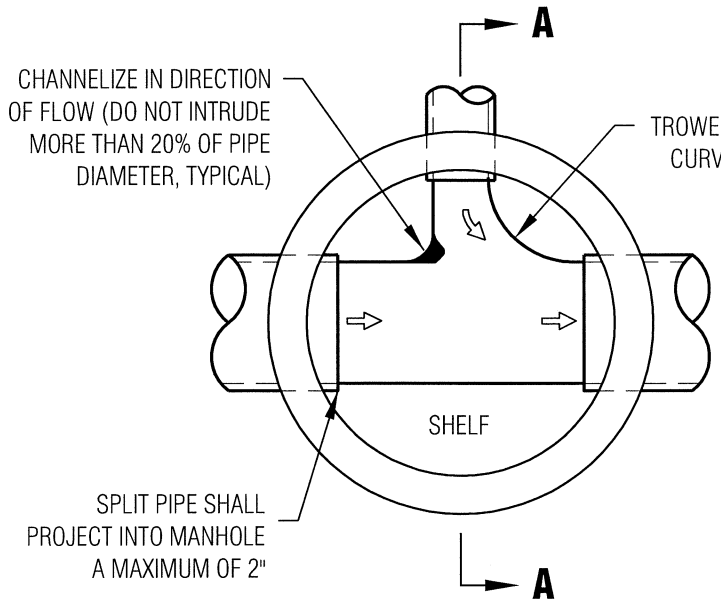
**SD-2**



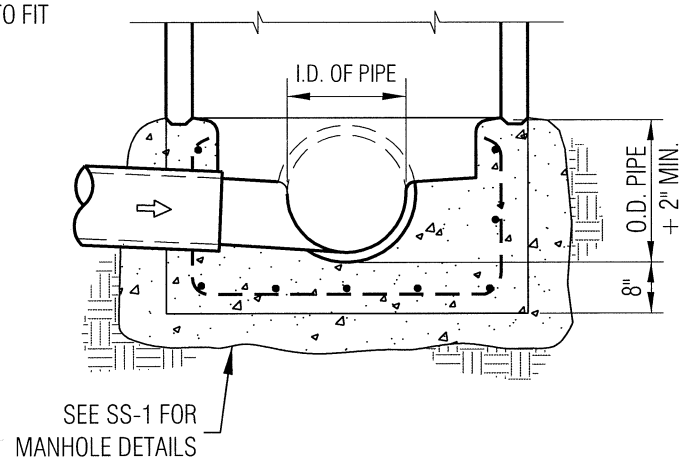

**TYPICAL MANHOLE WITH TWO BRANCHES**




**TYPICAL CURVED MANHOLE**




**TYPICAL MANHOLE WITH ONE BRANCH**




**SECTION A-A**

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

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| Description | Date |
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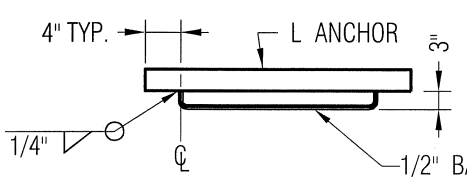
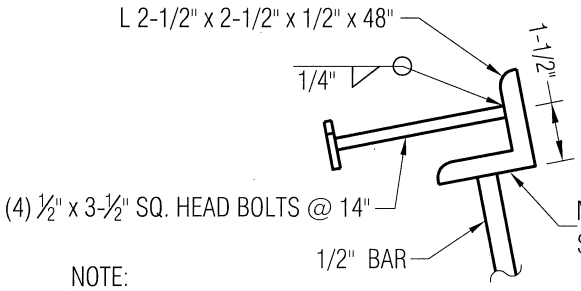
**ENGINEERING DIVISION**

**STORM MANHOLE BASE WITH BRANCHES**

**SD-3**

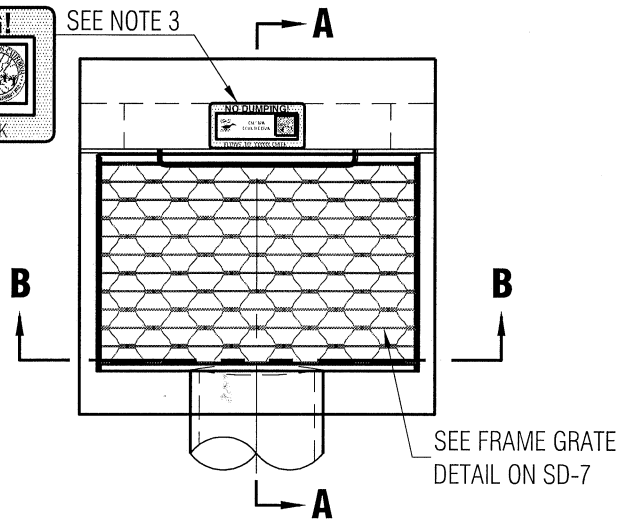




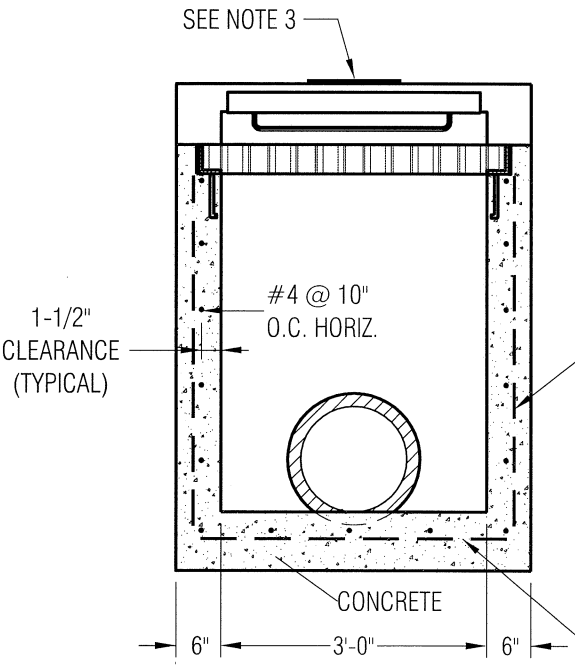



NOTE:
WHERE INLET IS LOCATED WITHIN A RETURN, ANGLE ANCHOR SHALL BE CURVED TO MATCH FACE OF CURB RADIUS.

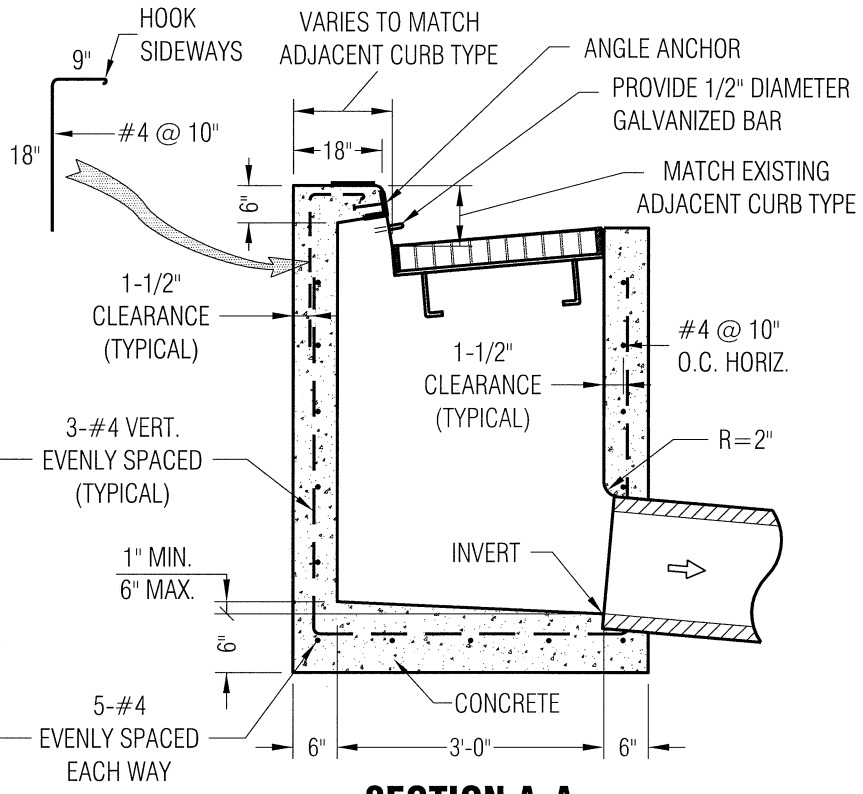
## ANGLE ANCHOR




## PLAN




## SECTION B-B




## SECTION A-A

NOTES:
1. CONFORM TO GUTTER OR ROADWAY SECTION FOR GUTTER DEPRESSION SEE SD-5
2. SEE CONSTRUCTION NOTES ON SD-6
3. INSTALL APPROPRIATE "CREEK" PLACARD

Approved: _____ 1/4/10
City Engineer — Date

| REVISION | | ENGINEERING DIVISION | |
|---|---|---|---|
| Description | Date | CURB INLET | SD-4 |
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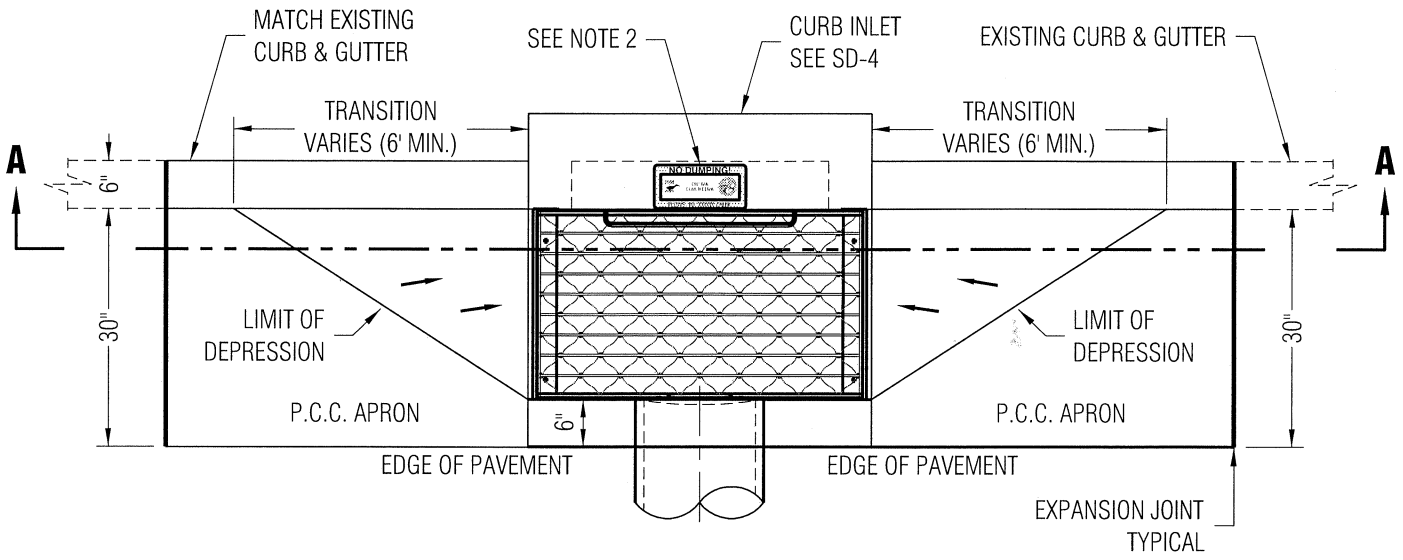
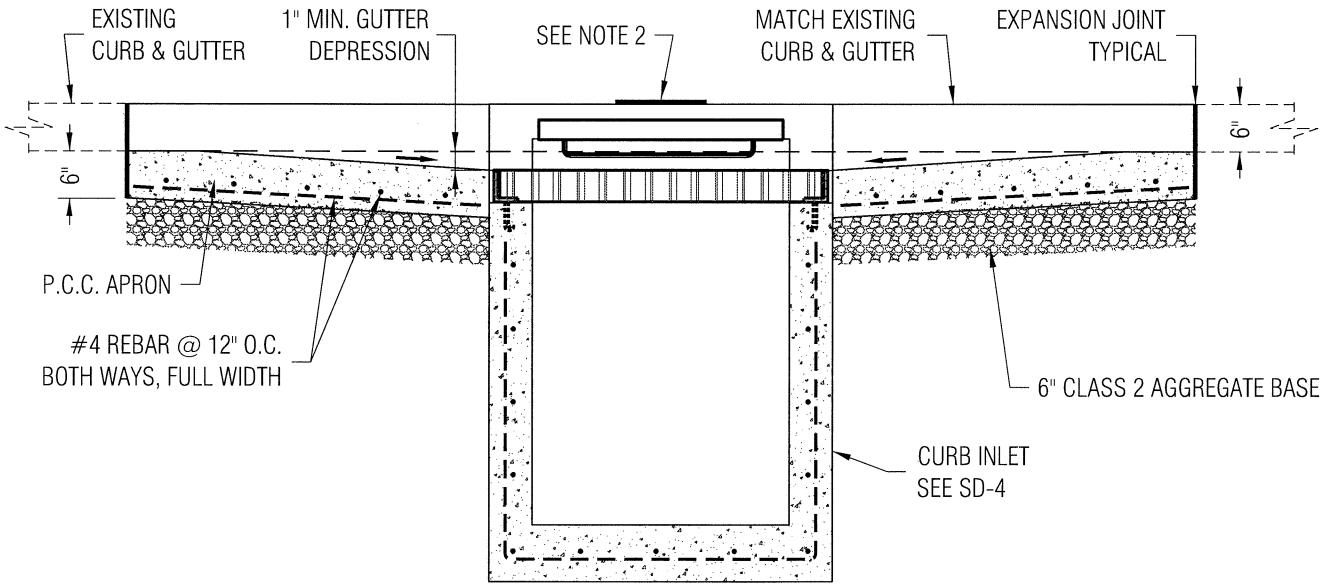



## PLAN

**NTS**




## SECTION A-A

**NTS**

NOTES:
1. SEE CONSTRUCTION NOTES ON SD-6
2. INSTALL APPROPRIATE "CREEK" PLACARD

Approved: _____ 1/4/10
City Engineer — Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

| REVISION | |
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| Description | Date |
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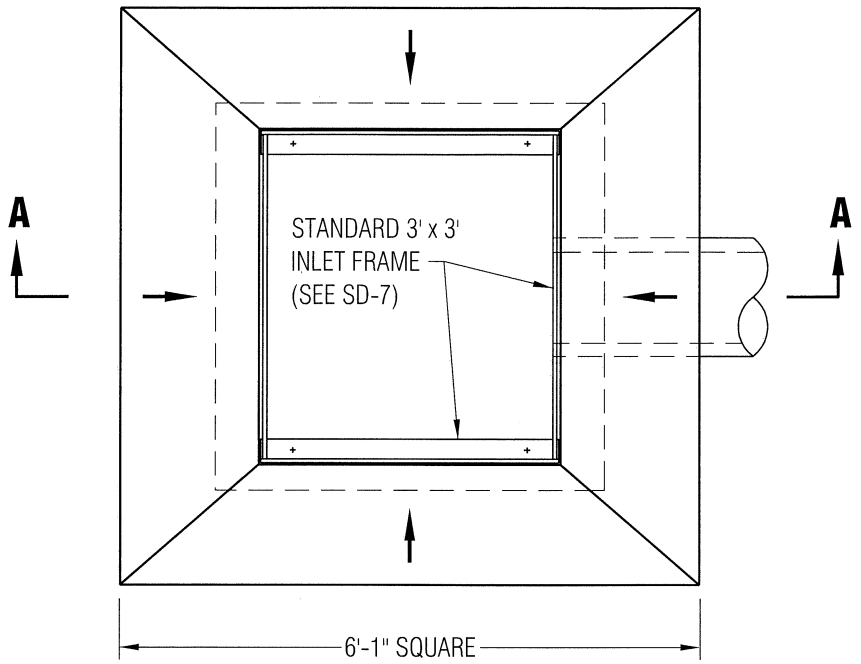
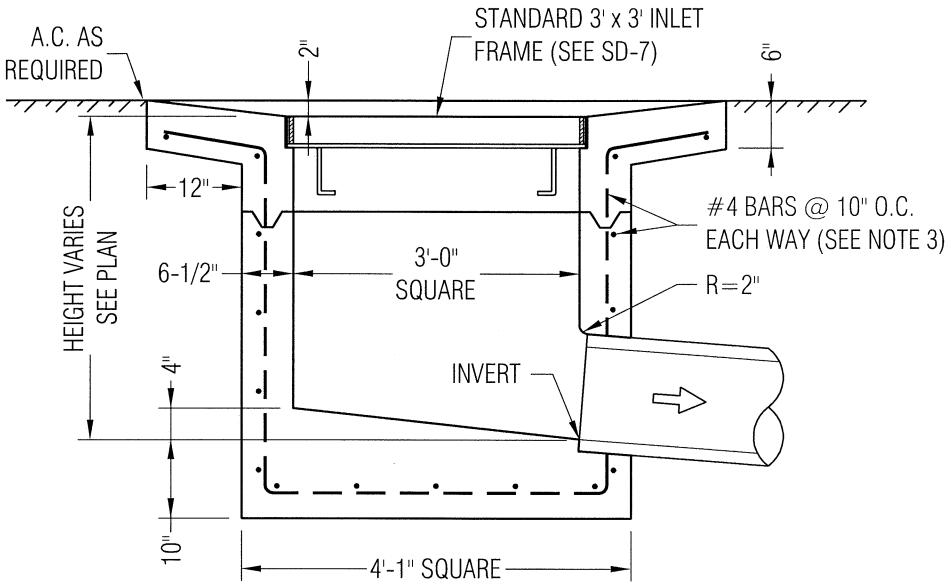
**ENGINEERING DIVISION**

**CURB INLET GUTTER DEPRESSION**

**SD-5**




## PLAN




## SECTION A-A

NOTES:

1. INLET BASE TO BE POURED AGAINST UNDISTURBED EARTH. SIDES MAY BE FORMED OR MAY BE POURED AGAINST UNDISTURBED EARTH.

2. NO CONCRETE SHALL BE POURED PRIOR TO CHECKING OF FORMS AND STEEL PLACEMENT BY THE ENGINEER.

3. ALL REINFORCING STEEL SHALL HAVE A MINIMUM CLEAR DISTANCE OF 3" AND SHALL BE CONTINUOUS AROUND CORNERS OR SHALL BE LAPPED AT LEAST 15" AFTER THE BEND. THE MINIMUM OVERLAP FOR A LAPPED SPLICE SHALL BE 15".

4. ⌄ INDICATES OPTIONAL CONSTRUCTION JOINT.

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1 · 1952

| REVISION | |
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| Description | Date |
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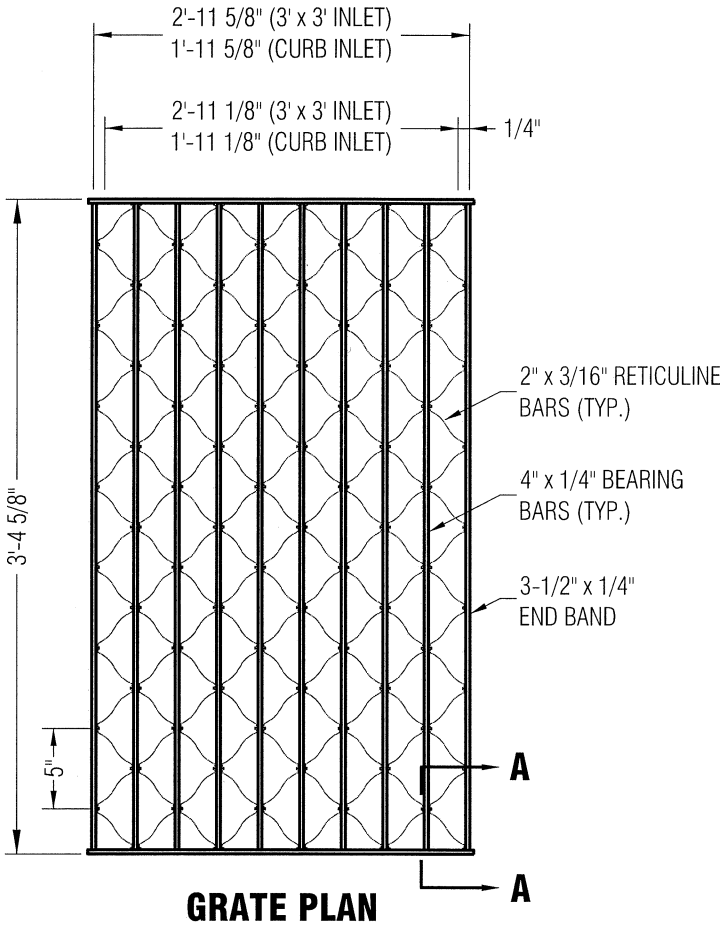
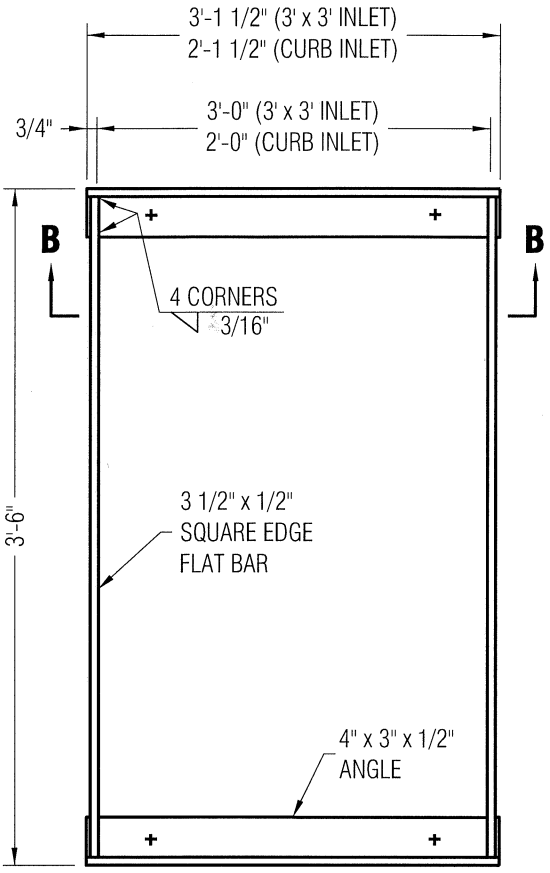
**ENGINEERING DIVISION**

**3' x 3' STORM DRAIN INLET**

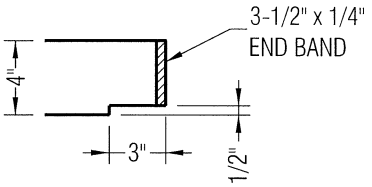
**SD-6**



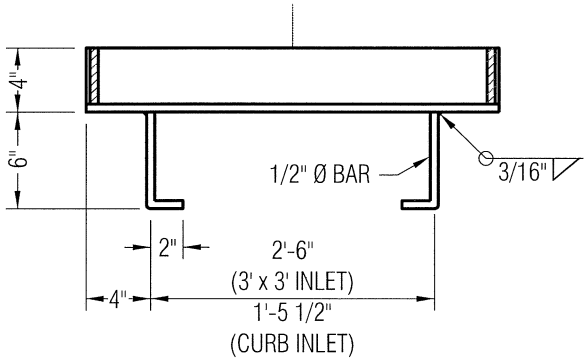

## GRATE PLAN




## FRAME PLAN




## SECTION A-A




## SECTION B-B

NOTES:

1. PLACE GRATE BARS PARALLEL TO FLOW.
2. FRAME , GRATE, ANCHORS AND ALL MISCELLANEOUS HARDWARE SHALL BE GALVANIZED AFTER FABRICATION.
3. CALTRANS TYPE 600-10S RETICULINE GRATE.

Approved: _____ City Engineer 1/4/10 Date

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| Description | Date |
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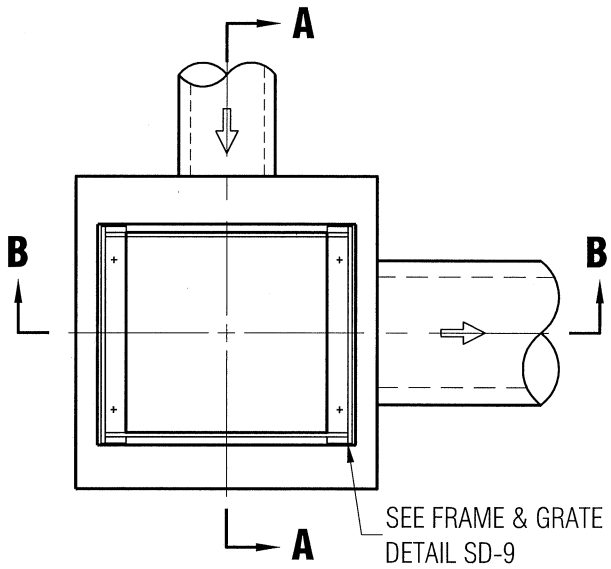
**ENGINEERING DIVISION**

**3' x 3' INLET AND STANDARD CURB INLET FRAME AND GRATE**

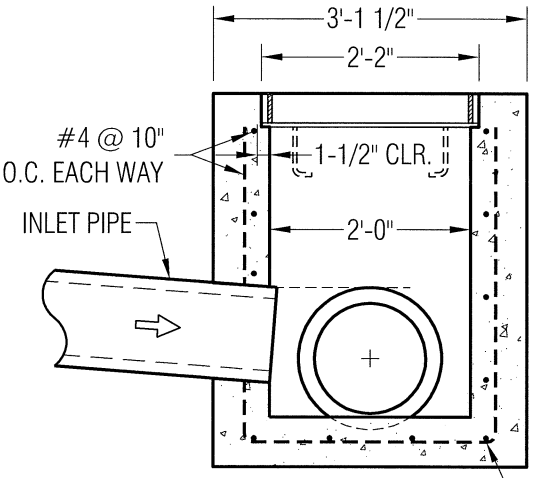
**SD-7**



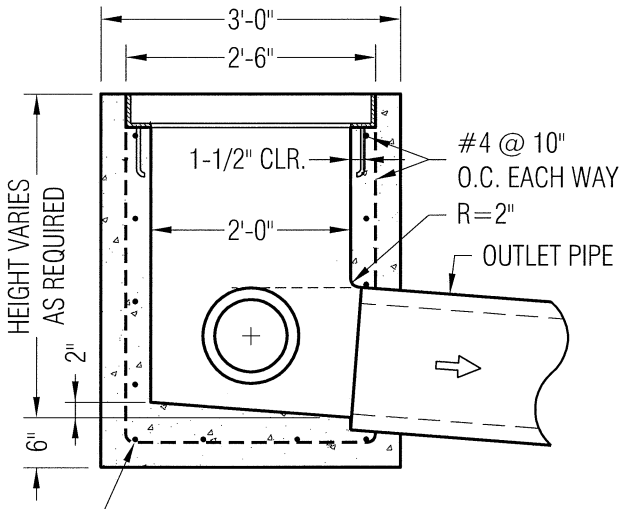

**PLAN**

NOTE:

1. OUTLET PIPE SHALL BE MIN. 12" - MAX. 18" DIAMETER.
2. ALL CONCRETE SHALL BE CLASS "A", 3/4" MAX. AGGREGATE, 3,300 PSI.
3. THE CROWN OF THE INLET PIPE SHALL BE SET AT THE SAME ELEVATION OF THE CROWN OF THE OUTLET PIPE.
4. REINFORCING STEEL SHALL BE REQUIRED FOR WALLS GREATER THAN 6' IN DEPTH. BOTTOM REBAR MAT IS REQUIRED REGARDLESS OF HEIGHT OF WALLS.
5. CHRISTY U23 CATCH BASIN (2' x 2' WITH 6" WALLS) OR AN APPROVED EQUAL.
6. SEE NOTES ON SD-6.




**SECTION A-A**




**SECTION B-B**

Approved: _____ City Engineer 1/4/10 Date

| REVISION | |
|---|---|
| Description | Date |
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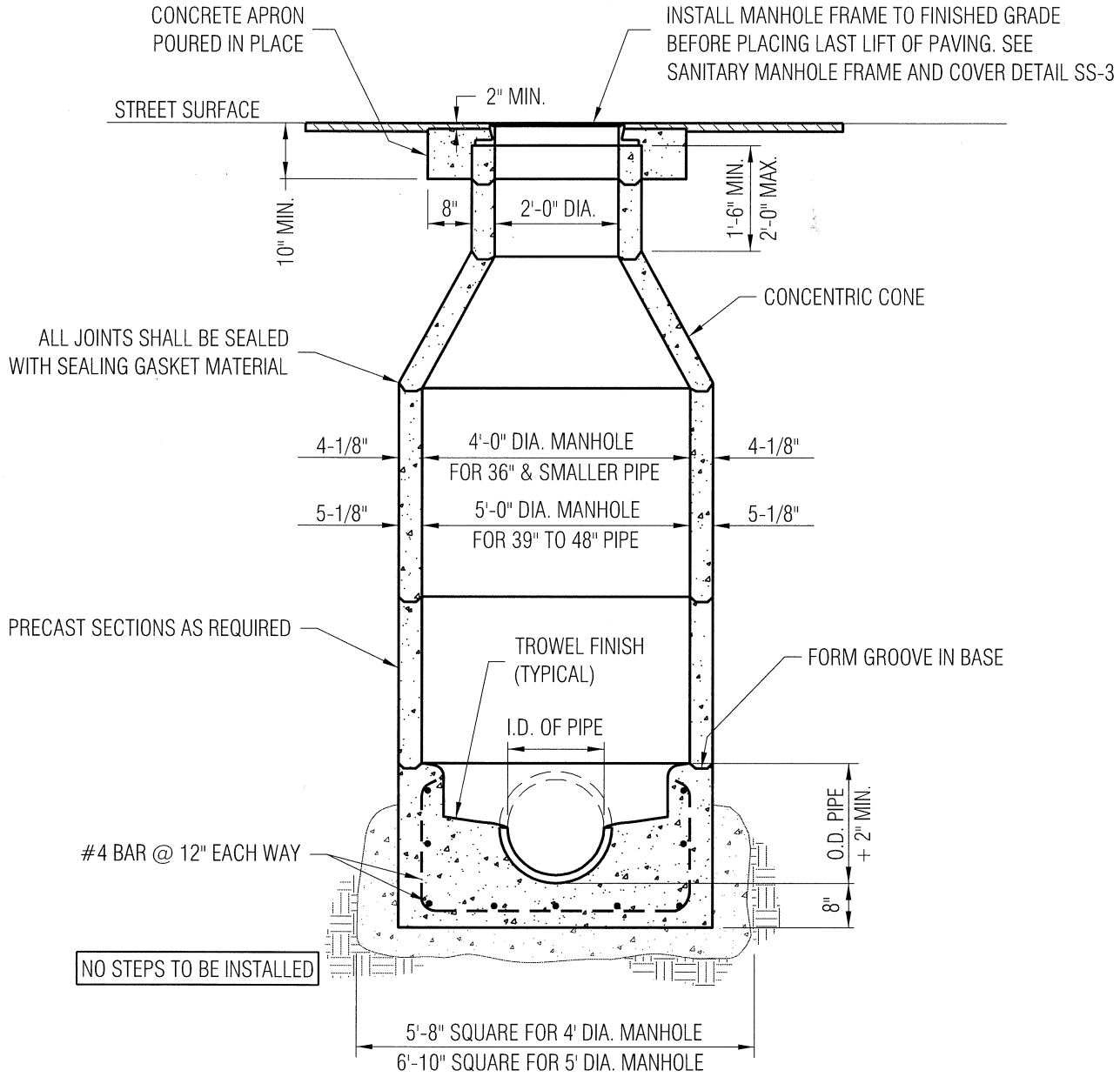
**ENGINEERING DIVISION**

**2' X 2' STORM DRAIN INLET**

**SD-8**




NOTE:

1. FOR INLINE MANHOLES LAY PIPE THRU BOTTOM OF MANHOLES. AFTER CONCRETE IN BASE HAS SET, KNOCK OUT PORTION OF PIPE INDICATED WITH DASHED LINES. (FOR BRANCHED BASE SEE SS-4)

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

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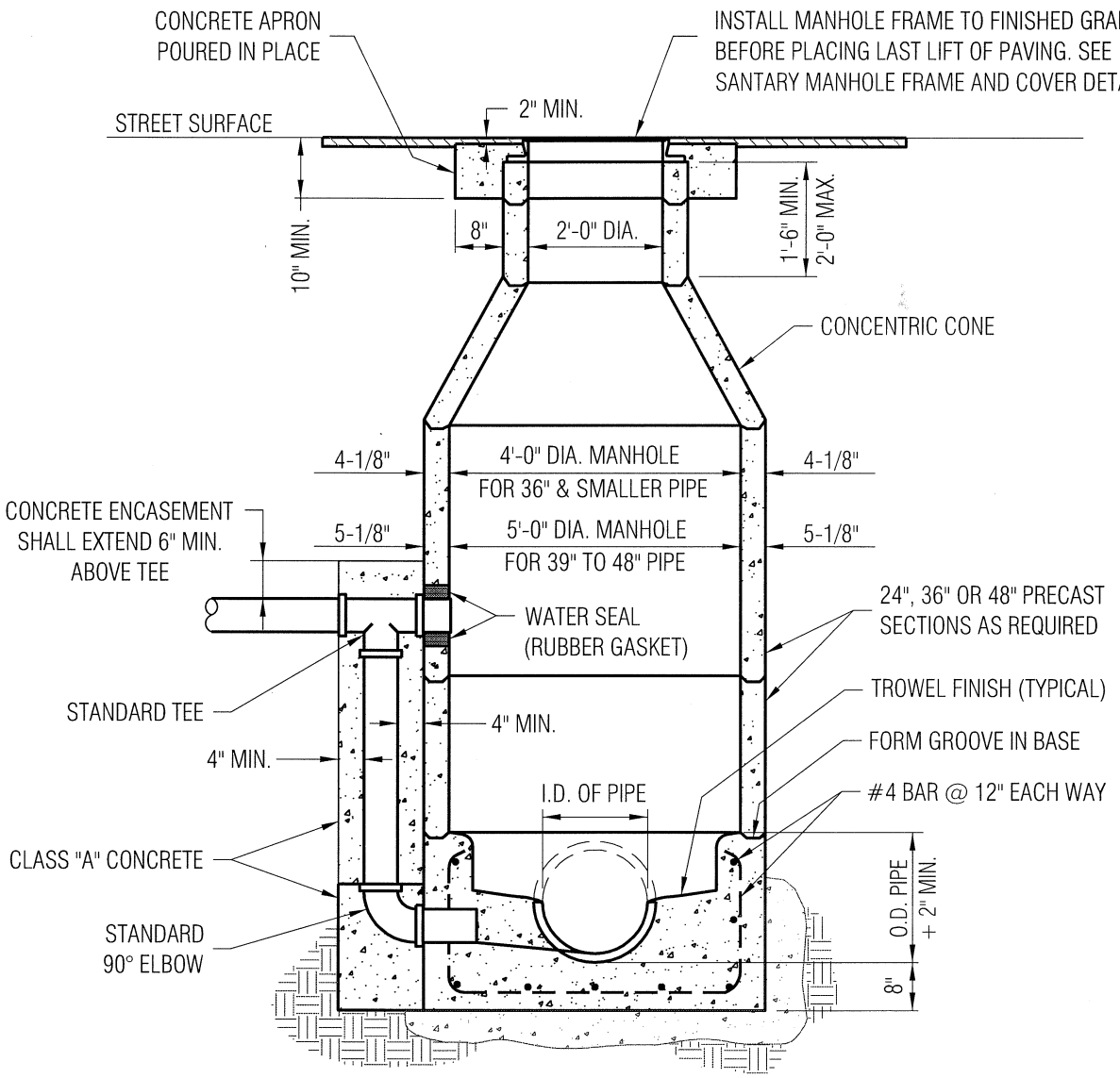
**ENGINEERING DIVISION**

**SANITARY SEWER MANHOLE (CONCENTRIC CONE)**

**SS-1**




NO STEPS TO BE INSTALLED

NOTES:

1. FOR INLINE MANHOLES LAY PIPE THRU BOTTOM OF MANHOLES. AFTER CONCRETE IN BASE HAS SET, KNOCK OUT PORTION OF PIPE INDICATED WITH DASHED LINES. (FOR BRANCHED BASE SEE SS-4)

2. A DROP CONNECTION SHALL BE INSTALLED WHEN THE PIPE INVERTS INTO THE MANHOLE ARE 2 FEET OR MORE ABOVE THE OUTFLOW INVERT

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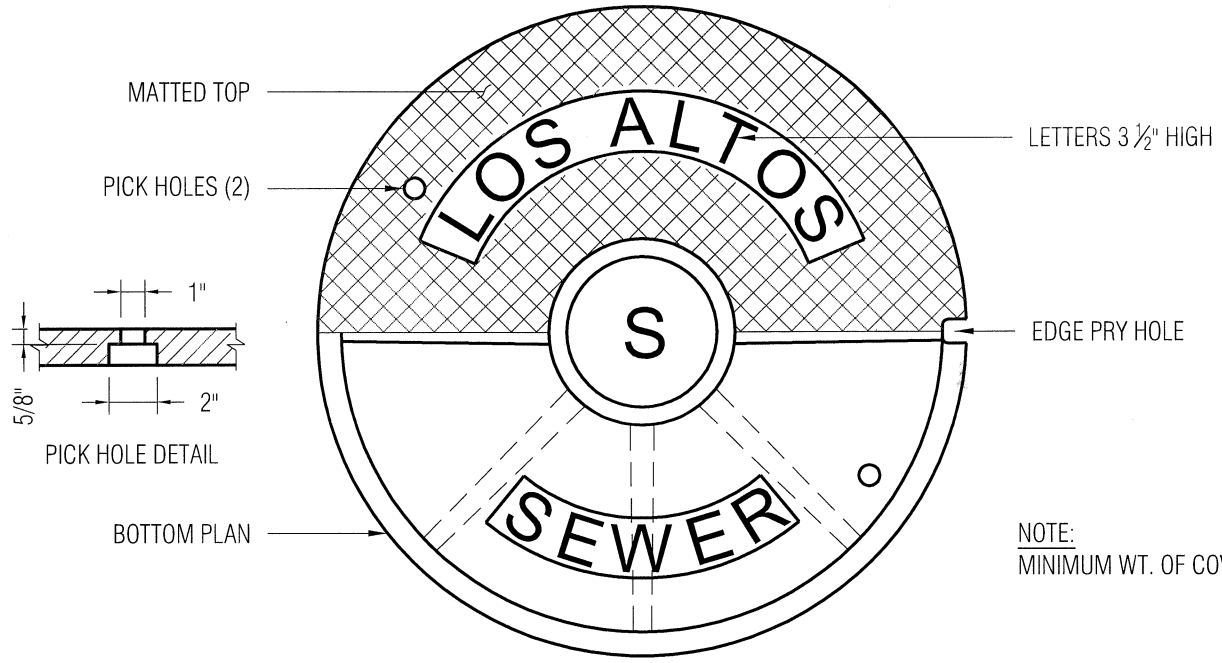
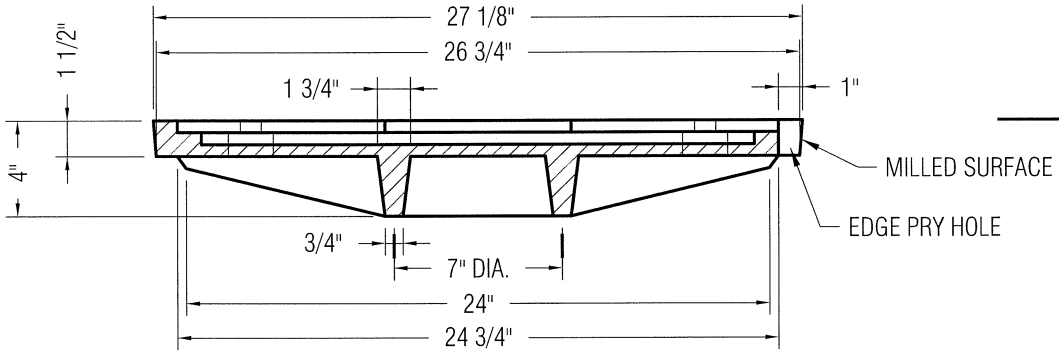
# ENGINEERING DIVISION

## SANITARY SEWER MANHOLE (OUTSIDE DROP)

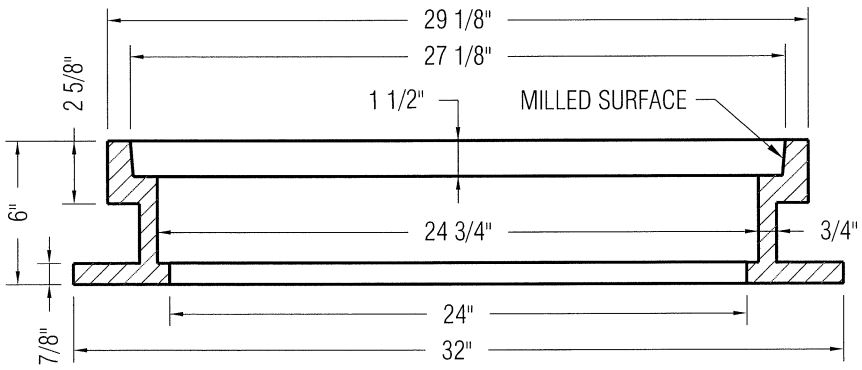
## SS-2




NOTE:
MINIMUM WT. OF COVER 225 LBS.




**COVER**




**FRAME**

## SECTION THRU COVER & FRAME

NOTE:
MINIMUM WT. OF FRAME 190 LBS.

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

| REVISION | |
|---|---|
| Description | Date |
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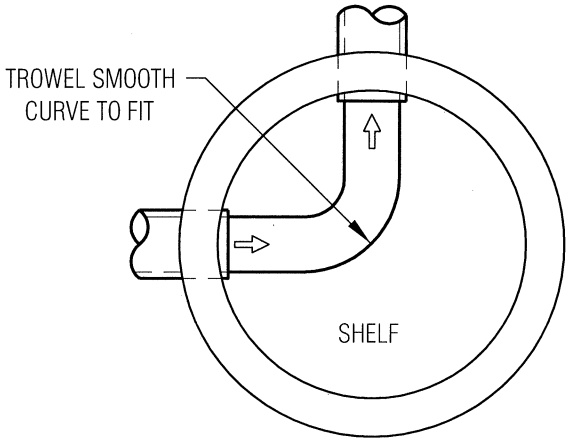
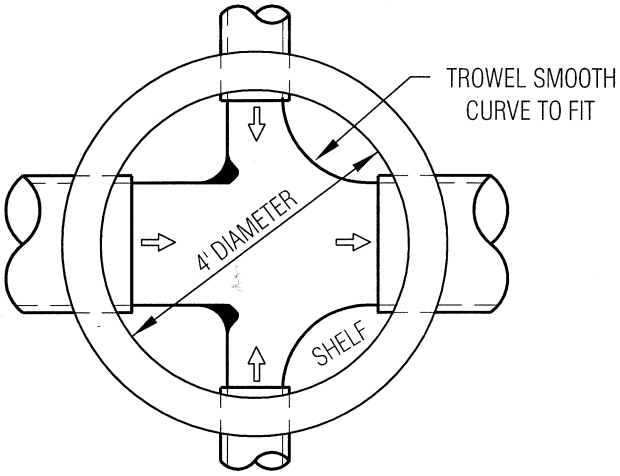
**ENGINEERING DIVISION**

**SANITARY SEWER MANHOLE FRAME AND COVER**

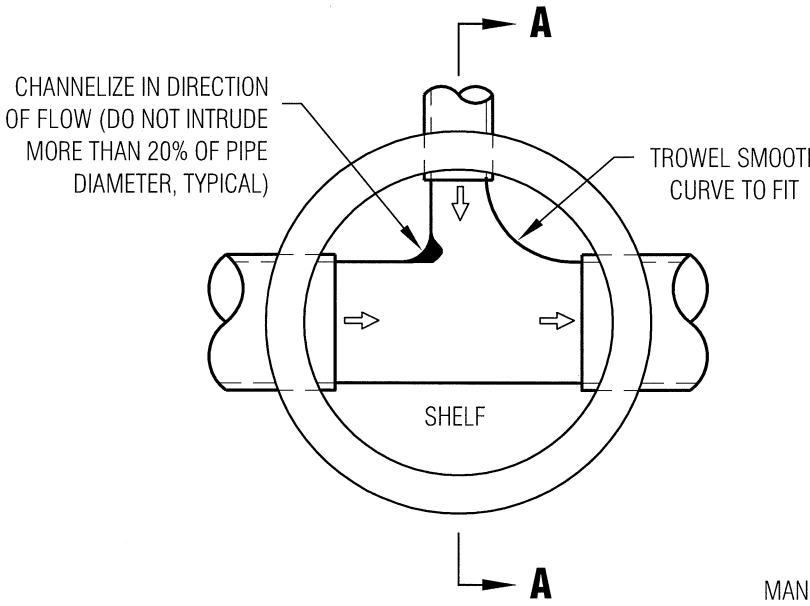
**SS-3**



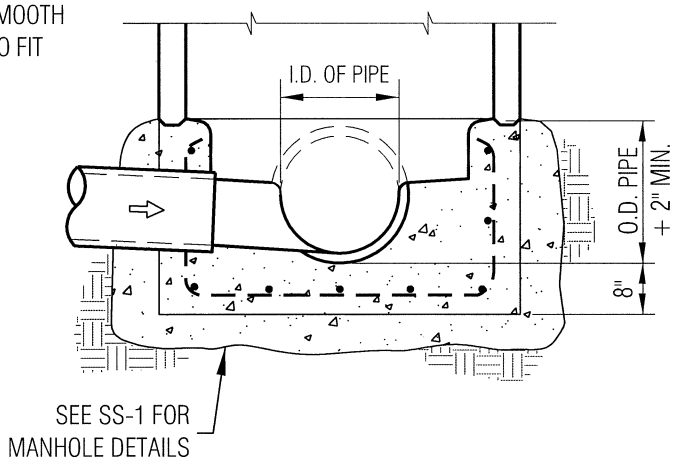

## TYPICAL CURVED MANHOLE




## TYPICAL MANHOLE WITH TWO BRANCHES




## TYPICAL MANHOLE WITH ONE BRANCH




## SECTION A-A

NOTE:
1. LAY PIPE THRU BOTTOM OF MANHOLES. AFTER CONCRETE IN BASE HAS SET. KNOCK OUT PORTION OF PIPE INDICATED WITH DASHED LINES.

Approved: _____ City Engineer 1/4/10 Date

| REVISION | | ENGINEERING DIVISION | |
|---|---|---|---|
| Description | Date | SANITARY SEWER MANHOLE BASE WITH BRANCHES | SS-4 |
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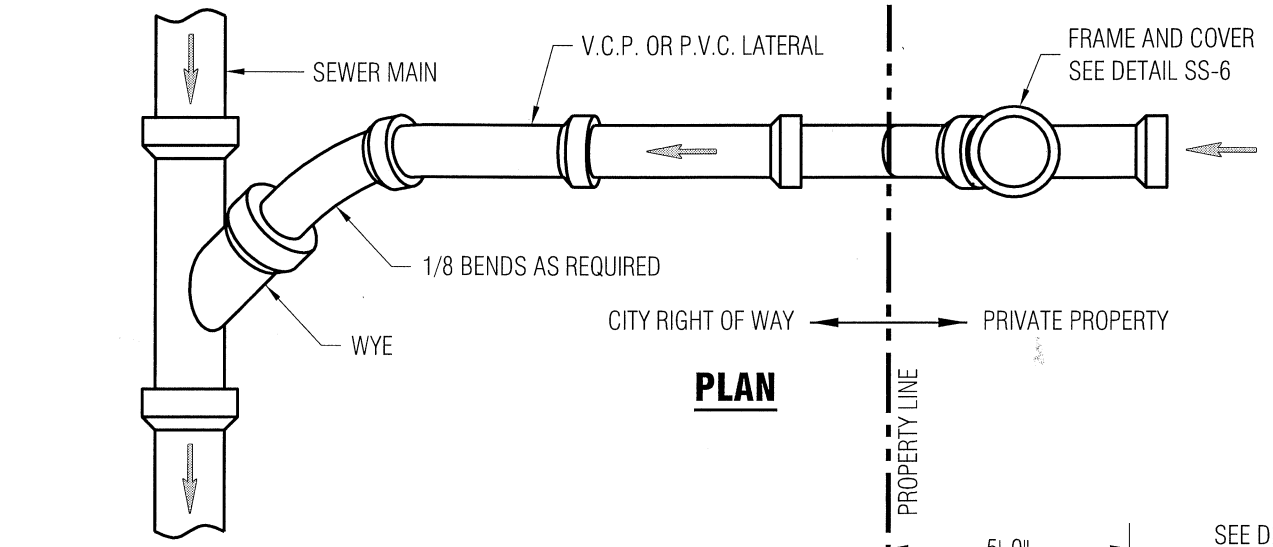
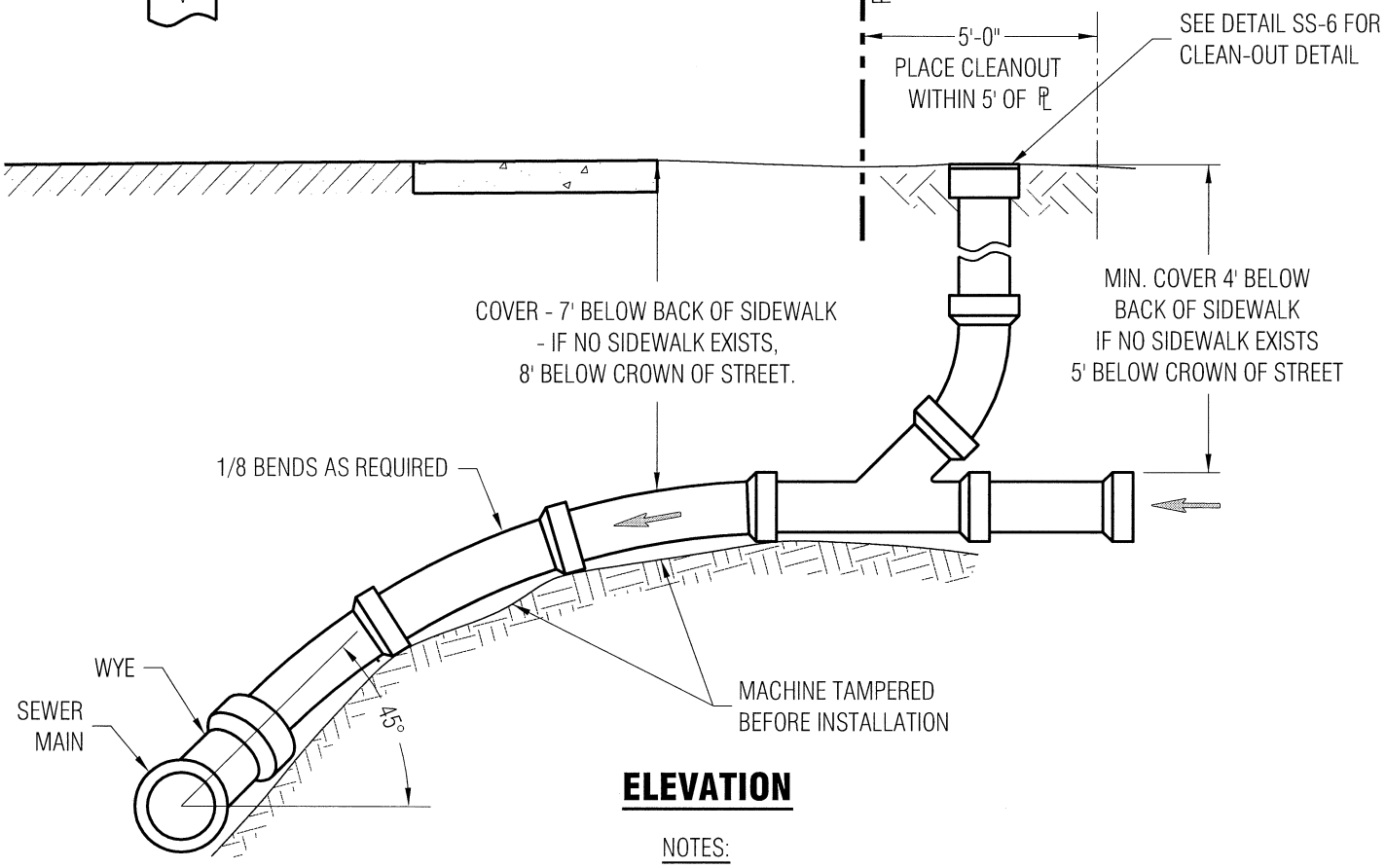
CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952




**PLAN**




**ELEVATION**

NOTES:

1. STAMP "S" IN CURB FACE TO SHOW LOCATION OF LATERAL SEE DETAIL SU-7
2. MINIMUM SLOPE OF LATERAL SHALL BE 1/4" PER 12"

Approved: _____ City Engineer 1/4/10 Date

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|---|---|
| Description | Date |
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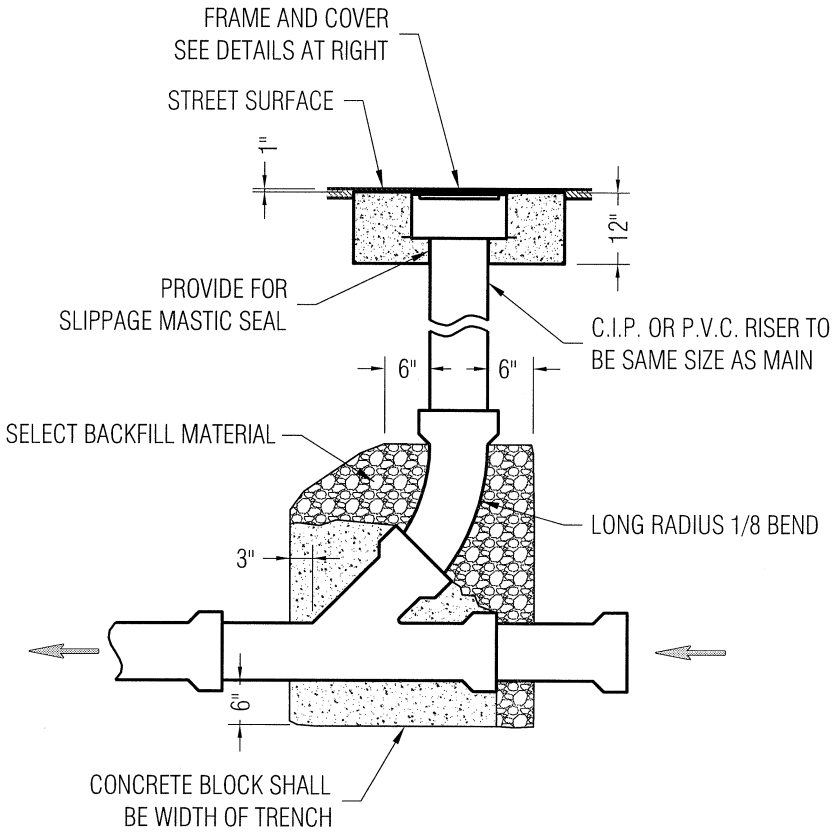
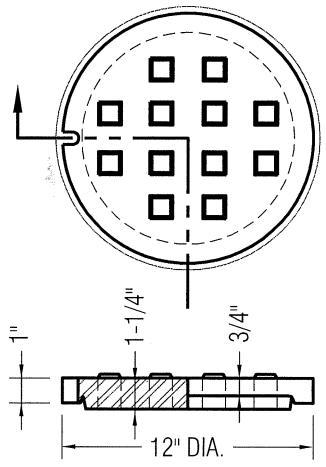
**ENGINEERING DIVISION**

**SEWER LATERAL AND SEWER RISER**

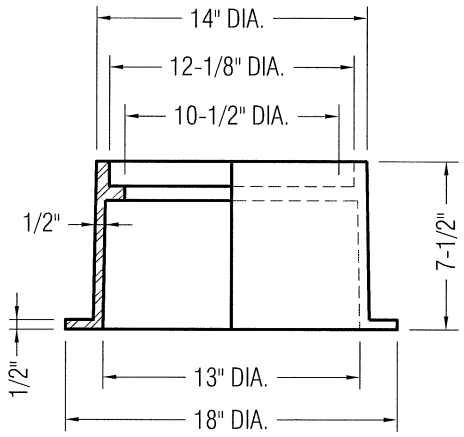
**SS-5**




## STANDARD SEWER MAIN CLEAN-OUT




## COVER DETAIL




## FRAME DETAIL

Approved: _____ City Engineer 1/4/10 Date

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| REVISION | | ENGINEERING DIVISION | |
|---|---|---|---|
| Description | Date | SEWER MAIN CLEAN-OUT | SS-6 |
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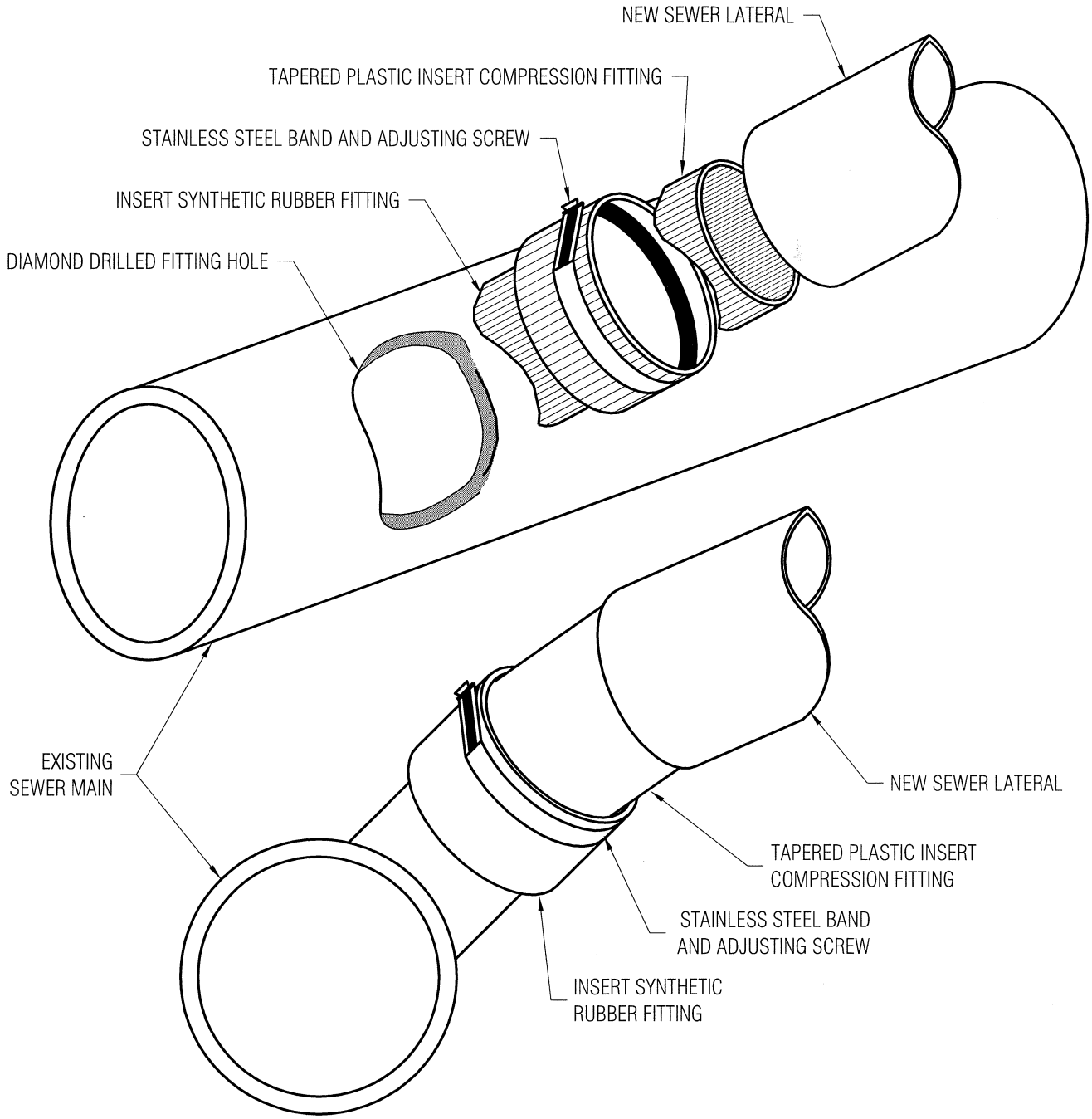


# STANDARD SEWER TAP

Approved: _____ City Engineer 1/4/10 Date

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|---|---|
| Description | Date |
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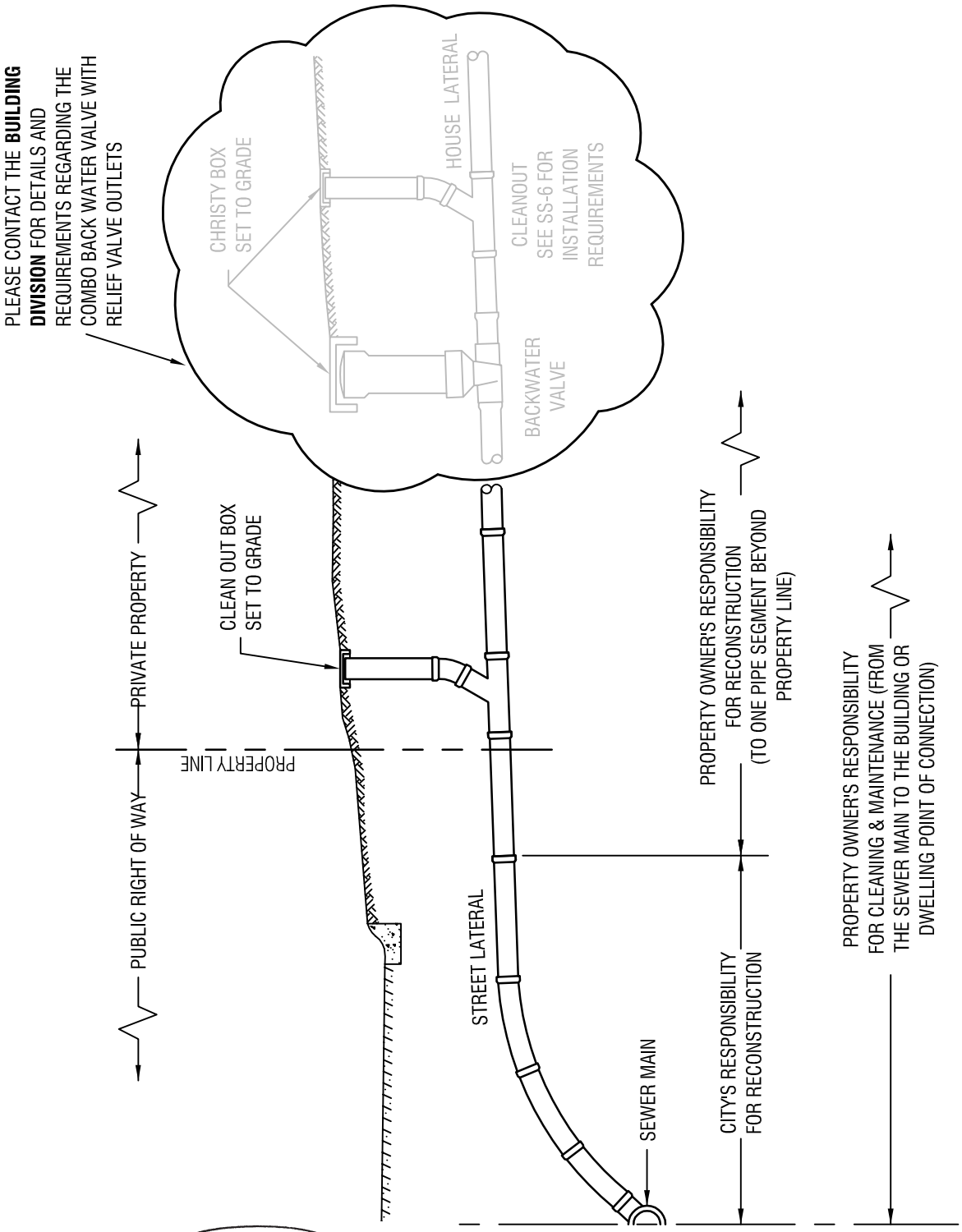
**ENGINEERING DIVISION**

**SEWER TAP**

**SS-7**




Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

| REVISION | |
|---|---|
| Description | Date |
| REVISED | 9/18/2012 |
| REVISED | 11/6/2013 |
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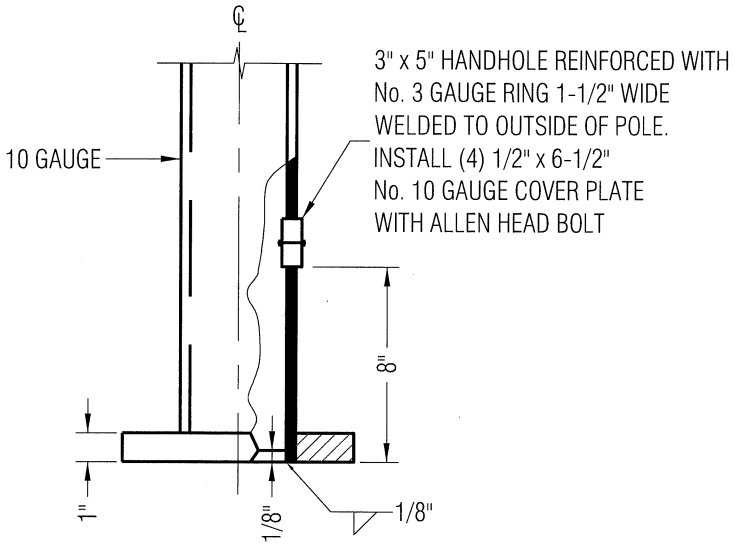
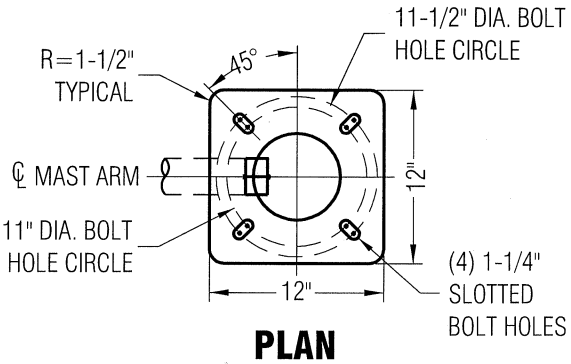
# ENGINEERING DIVISION

## SEWER LATERAL DIVISION OF RESPONSIBILITY

## SS-8

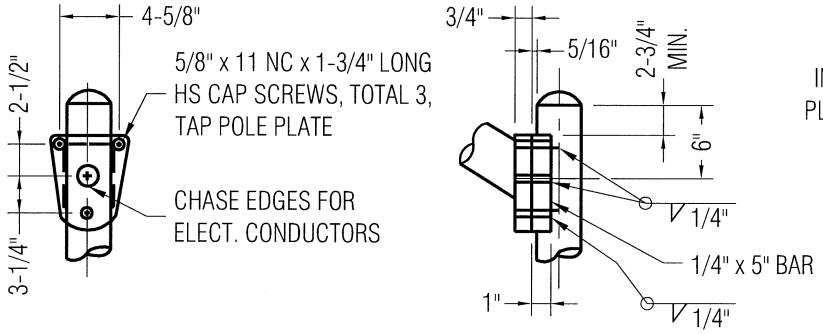



## ELEVATION

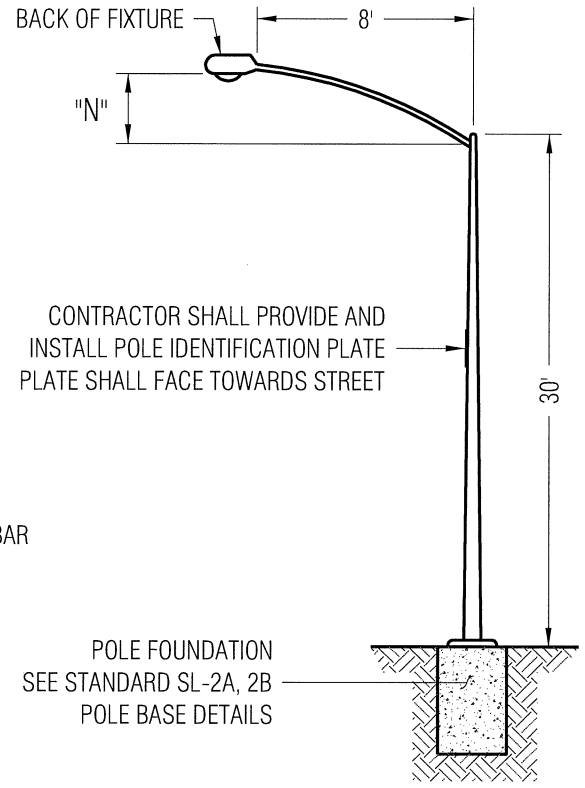



## PLAN

BASE PLATE




## LUMINAIRE ARM CONNECTION




## ELEVATION-TYPE 15

| POLE DATA | | | | | |
|---|---|---|---|---|---|
| POLE TYPE | HEIGHT | MIN. O D | | THICKNESS | LUMINAIRE ARM LENGHT |
| | | BASE | TOP | | |
| 15 | 30'-0" | 8" | 3-7/8" | 0.1196" | 8'-0" |

| LUMINAIRE ARM DATA | | | | |
|---|---|---|---|---|
| CLEARANCE HEIGHT | "N" RISE | MIN. O.D. AT POLE | THICKNESS | PROJECTED LENGTH |
| 32'-0"± | 2'-6"± | 3-1/2" | 0.1196" | 8'-0" |

NOTE:

1. ALL POLES LOCATED ON SAN ANTONIO ROAD OR DOWNTOWN AREA SHALL HAVE A BLACK FINISH

2. ARM LENGTH TO BE 8' UNLESS OTHERWISE NOTED ON PLAN

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CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

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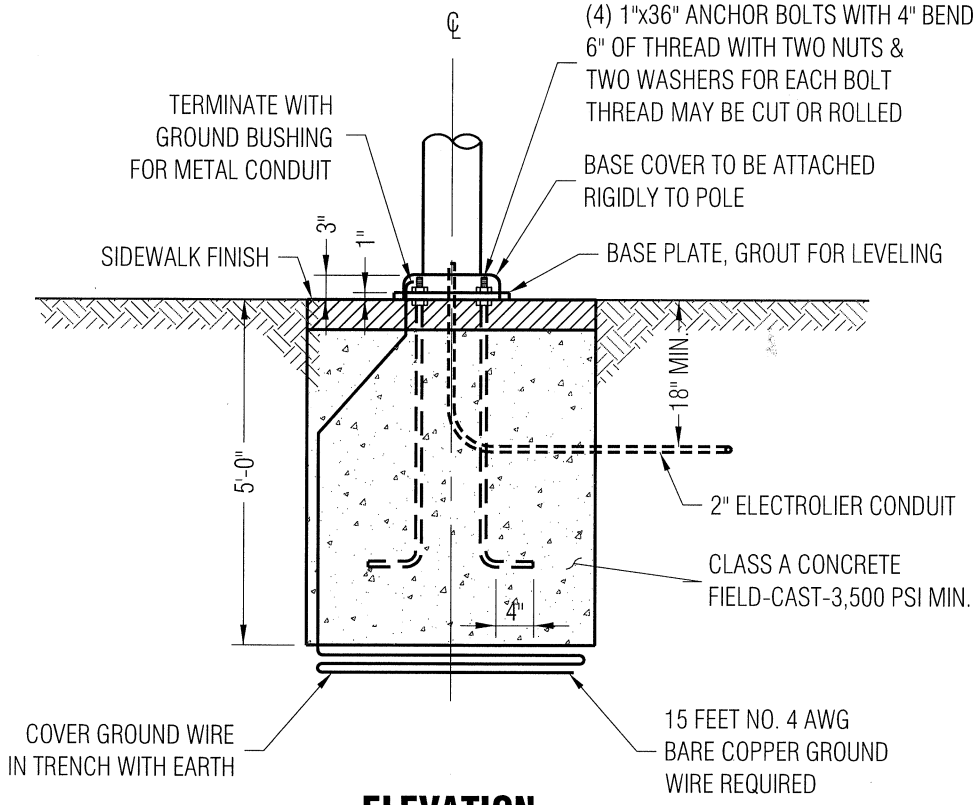
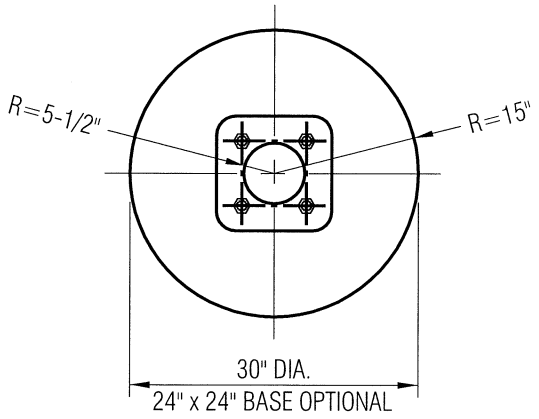
# ENGINEERING DIVISION

## ELECTROLIER

## SL-1




## ELEVATION




## PLAN

FOOTING

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| REVISION | |
|---|---|
| Description | Date |
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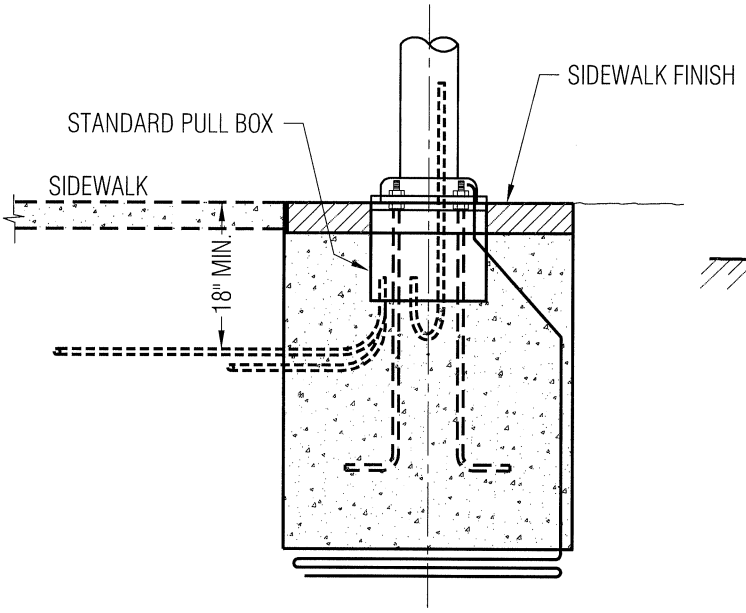
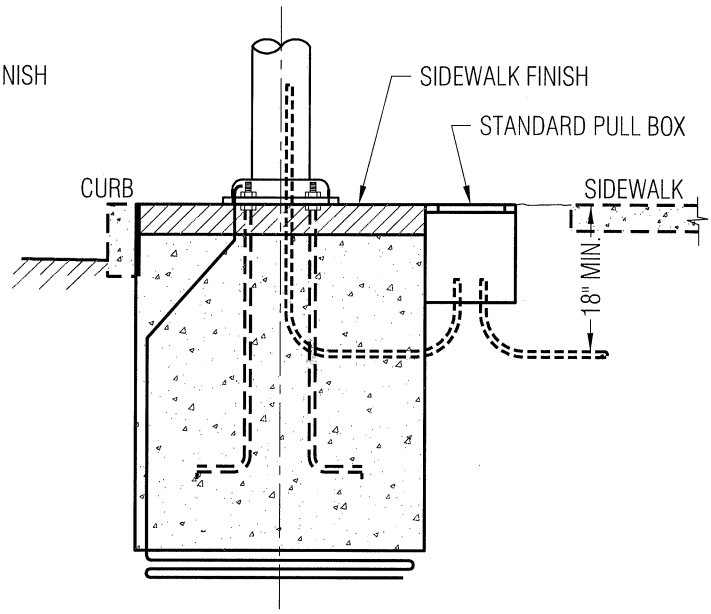
**ENGINEERING DIVISION**

**ELECTROLIER POLE BASE DETAILS (SHEET 1 OF 2)**

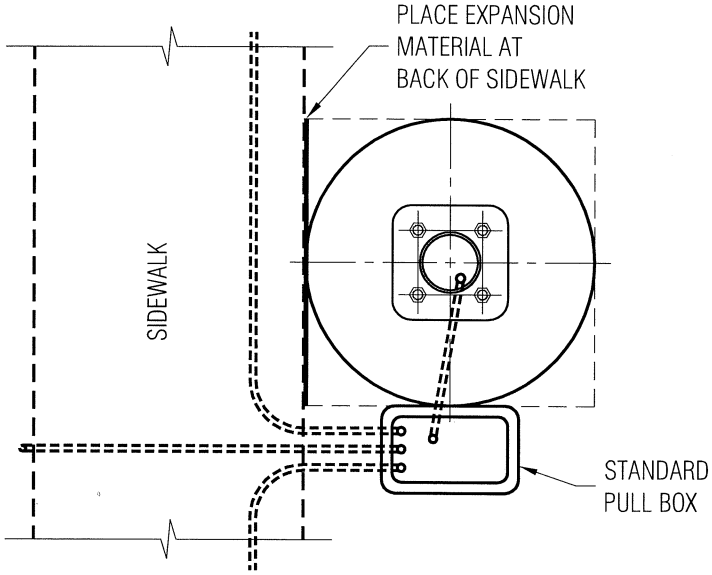
**SL-2A**



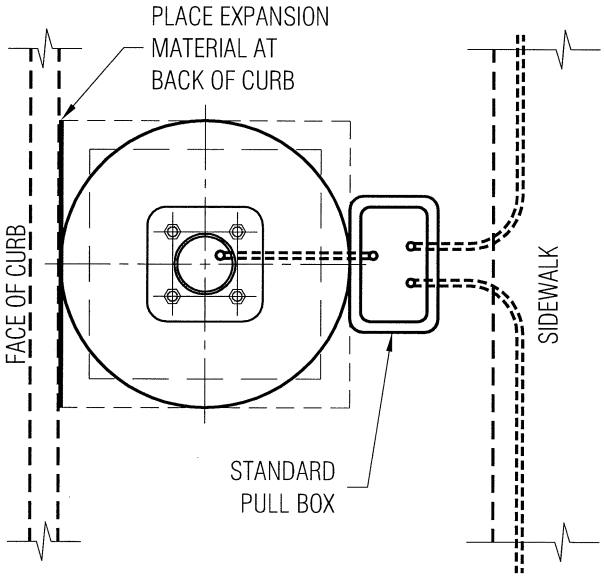

**ELEVATION**




**ELEVATION**




**PLAN - 5' SIDEWALK**




**PLAN - NON-MONOLITHIC SIDEWALK**

BASE INSTALLATION TO BE USED FOR LOCATIONS WHERE AREA BETWEEN CURB & SIDEWALK IS WIDER THAN 6 FEET

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CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

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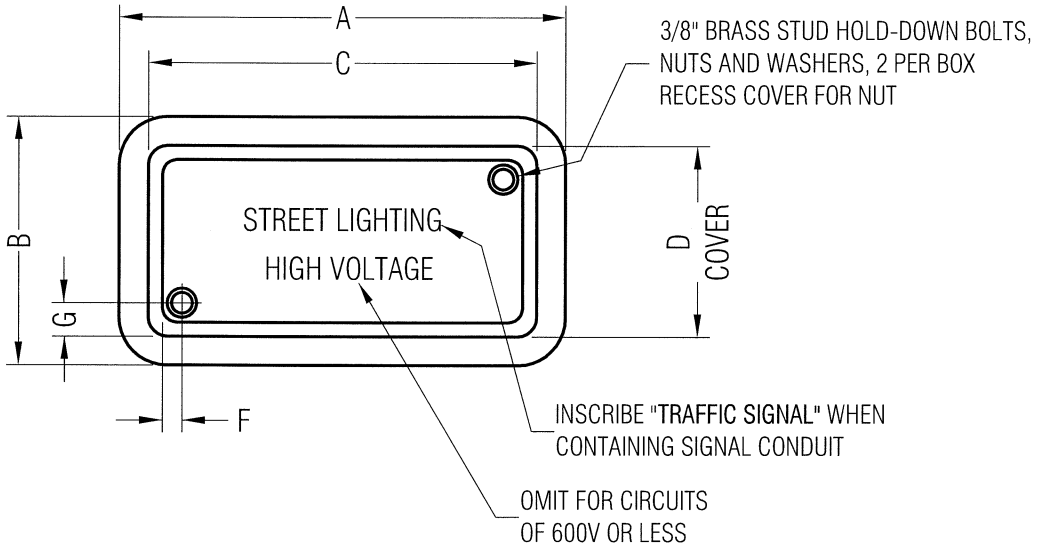
**ENGINEERING DIVISION**

**ELECTROLIER POLE BASE DETAILS (SHEET 2 OF 2)**

**SL-2B**

| PULL BOX No. | BOX | | | COVER | | | | |
|---|---|---|---|---|---|---|---|---|
| | DEPTH | A | B | C | D | E* | F | G |
| N9 | 12" | 19-3/4" | 14-1/4" | 15-1/4" | 10" | 1-3/4" | N/A | N/A |
| N16 | 12" | 25-1/4" | 15-3/4" | 20-5/8" | 10-1/2" | 2" | 2-1/2" | 1-3/4" |

E* = COVER THICKNESS

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|---|---|
| Description | Date |
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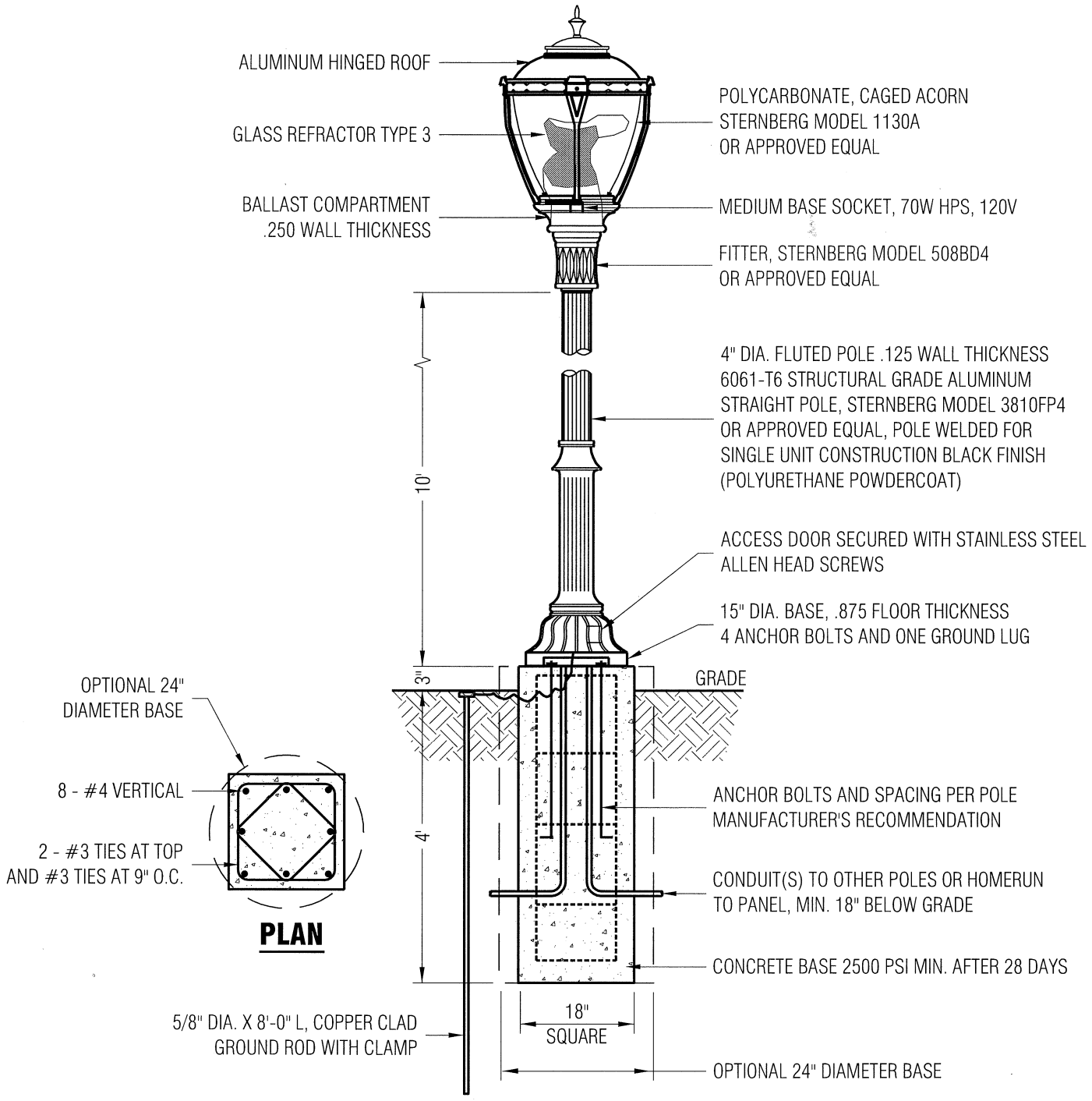
# ENGINEERING DIVISION

**PULL BOX**

**SL-3**




Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

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|---|---|
| Description | Date |
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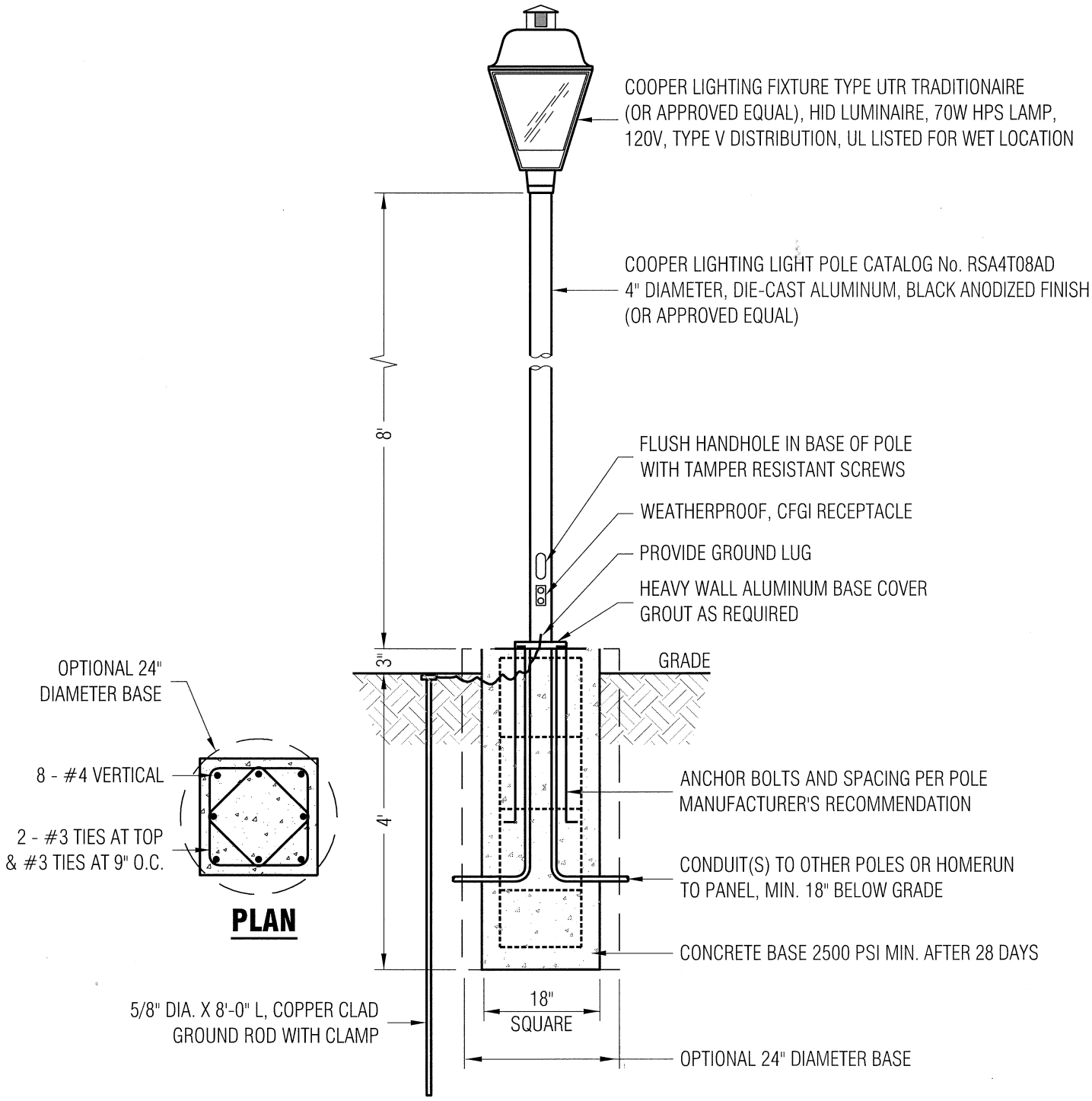
# ENGINEERING DIVISION

## DOWNTOWN DECORATIVE ELECTROLIER

## SL-4




NOTE:
CONTRACTOR SHALL SUBMIT A FOOTCANDLE POINT TO POINT DIAGRAM FOR APPROVAL PRIOR TO ORDERING. SUBMITTAL SHALL USE LIGHT POLE MANUFACTURER'S PHOTOMETRIC DATA

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1, 1952

| REVISION | |
|---|---|
| Description | Date |
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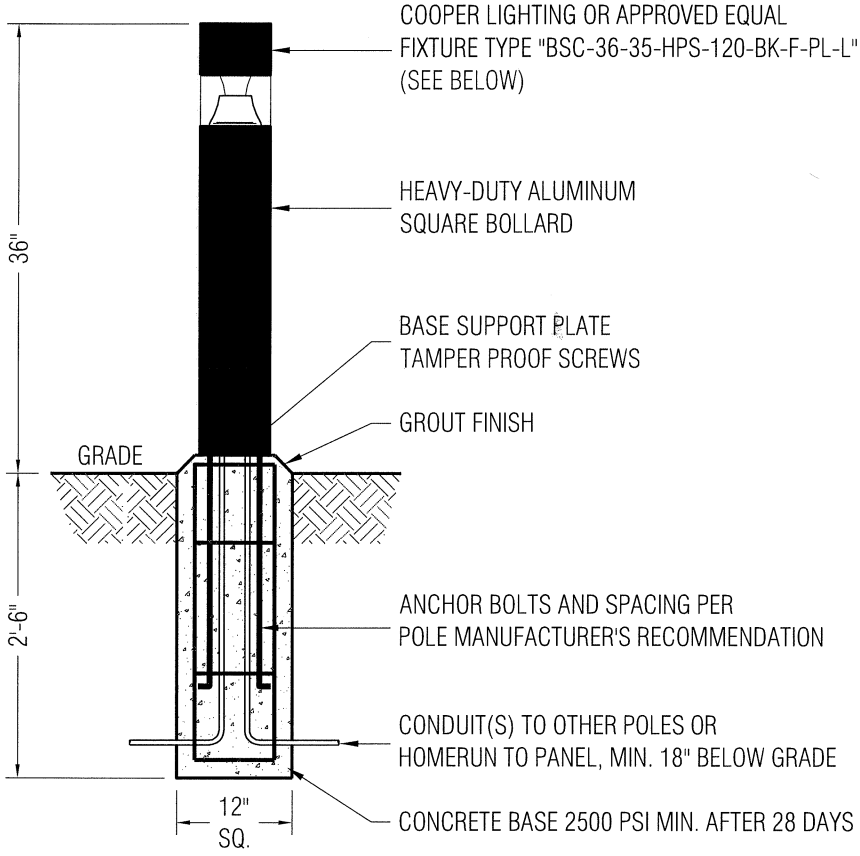
# ENGINEERING DIVISION

## PARK ELECTROLIER

## SL-5




NOTE:
CONTRACTOR SHALL SUBMIT A FOOTCANDLE POINT TO POINT DIAGRAM FOR APPROVAL PRIOR TO ORDERING. SUBMITTAL SHALL USE BOLLARD LIGHT MANUFACTURER'S PHOTOMETRIC DATA


**PLAN**

| LIGHTING FIXTURE SCHEDULE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TYPE | HEIGHT | LAMP WATTS | LAMP TYPE | VOLTAGE | COLOR FINISH | FUSE | LENS | OTHER OPTIONS |
| BSC | 36" | 35W | HIGH PRESSURE SODIUM | 120V | BLACK POLYESTER POWDER COAT | SINGLE | POLYCARBONATE | LAMP INCLUDED |

Approved: _____ City Engineer 1/4/10 Date

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|---|---|
| Description | Date |
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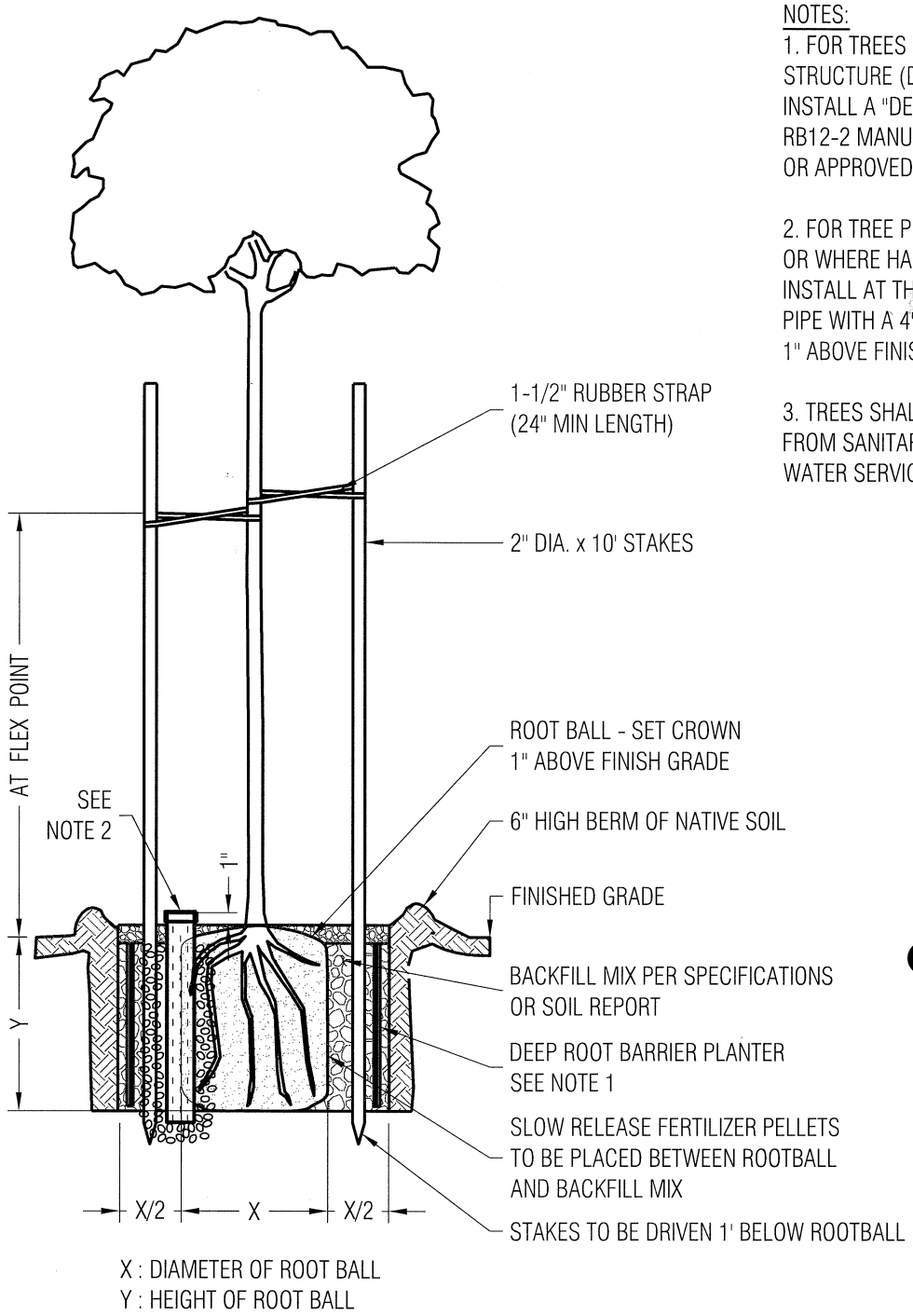
**ENGINEERING DIVISION**

**BOLLARD LIGHT DETAIL**

**SL-6**




X : DIAMETER OF ROOT BALL
Y : HEIGHT OF ROOT BALL

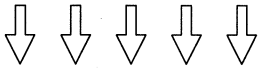
NOTES:

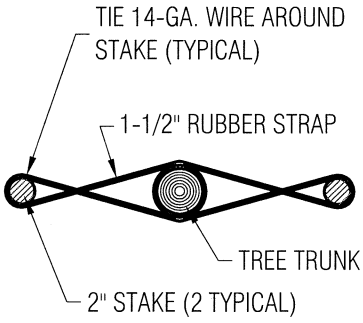
1. FOR TREES PLANTED WITHIN 6' OF A PERMANENT STRUCTURE (DRIVEWAY, SIDEWALK, CURB, ETC.) INSTALL A "DEEP ROOT BARRIER PLANTER NO. RB12-2 MANUFACTURED BY DEEP ROOT CORP." OR APPROVED EQUAL

2. FOR TREE PLANTED IN A NON-IRRIGATED AREA OR WHERE HAND WATERING IS NECESSARY, INSTALL AT THE PERIMETER A 4"x30" P.V.C. DRAIN PIPE WITH A 4" SLOAN GRATE OR APPROVED EQUAL 1" ABOVE FINISH GRADE

3. TREES SHALL BE PLANTED A MINIMUM OF 10' FROM SANITARY SEWER LATERALS AND 5' FROM WATER SERVICES AND DRIVEWAYS

DIRECTION OF
PREVAILING WIND






**PLAN**

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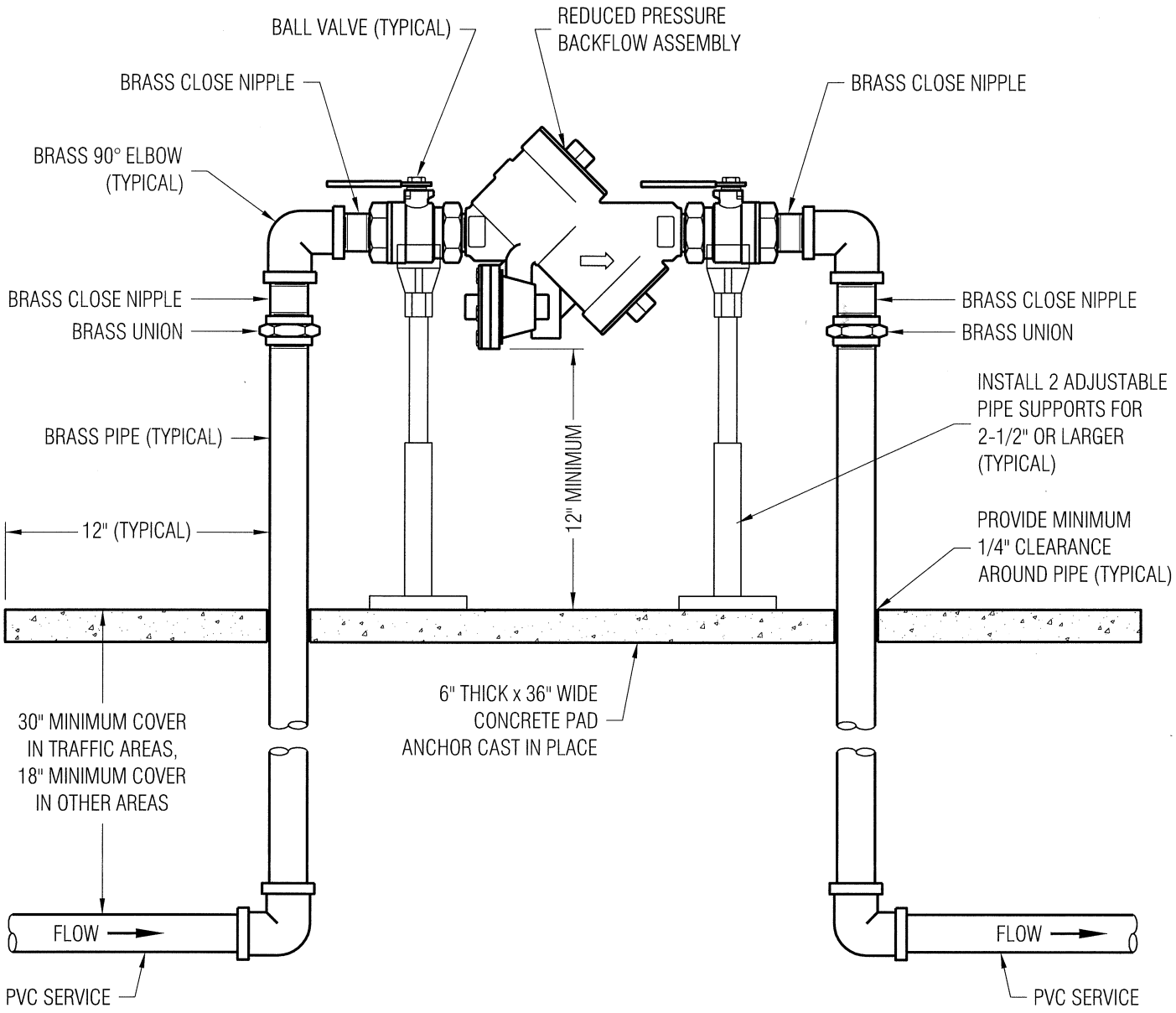
# ENGINEERING DIVISION

## TREE PLANTING AND STAKING

## LI-1




NOTES:

1) BACKFLOW UNITS SHALL BE ON THE "APPROVED BACKFLOW PREVENTION DEVICES" LIST BY THE HEALTH SERVICES AGENCY A DEPARTMENT OF THE PUBLIC HEALTH AND ENVIRONMENTAL PROTECTION DIVISION OF THE COUNTY OF SANTA CLARA

2) SEAL ALL THREADED JOINTS 2" & SMALLER WITH PIPETHREAD SEALANT. FOR LARGER PIPES USE PIPETHREAD SEALANT & TEFLON TAPE

3) APPLY " PROTECTO WRAP " #160H MASTIC TO ALL BURIED GALVANIZED PIPE FITTINGS

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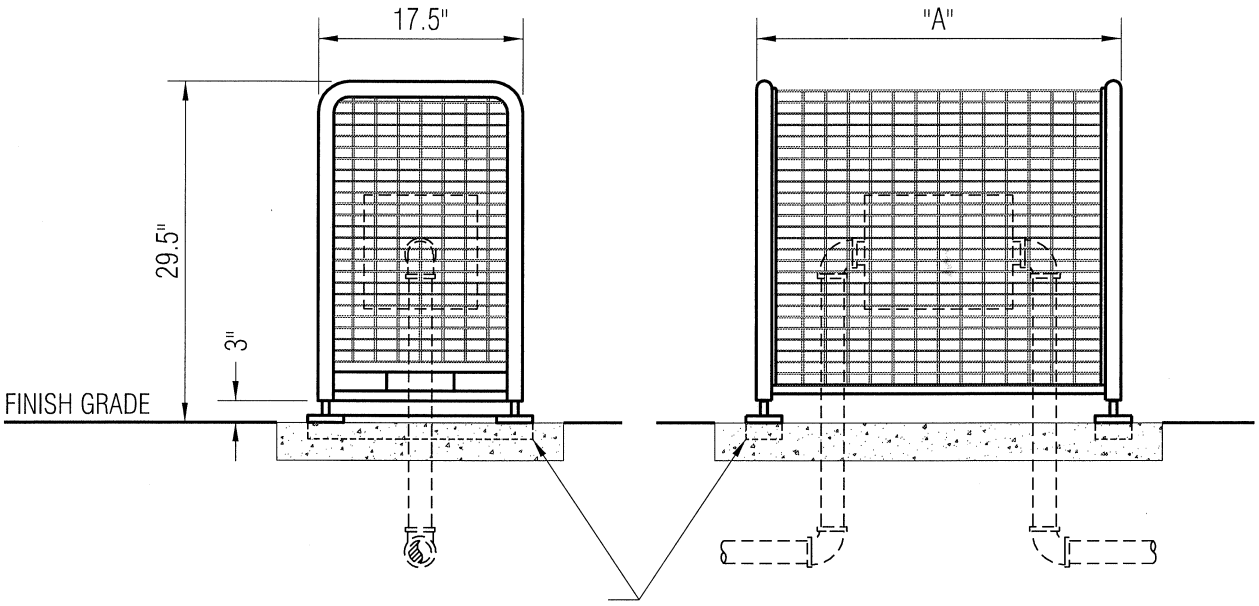
# ENGINEERING DIVISION

## BACKFLOW PREVENTION DEVICE

## LI-2




| SPECIFICATIONS FOR BACKFLOW ENCLOSURE | | |
|---|---|---|
| DESCRIPTION | MODEL NO. | DIM. A |
| V.I.T. PRODUCTS, INC.<br>STRONG BOX ENCLOSURE | SBBC-30CR<br>SBBC-45CR<br>SBBC-75CR | 30"<br>45"<br>75" |
| EXPANSION MODULE<br>FOR 30" & 45" ENCLOSURES | EXP-15CR | 15" |

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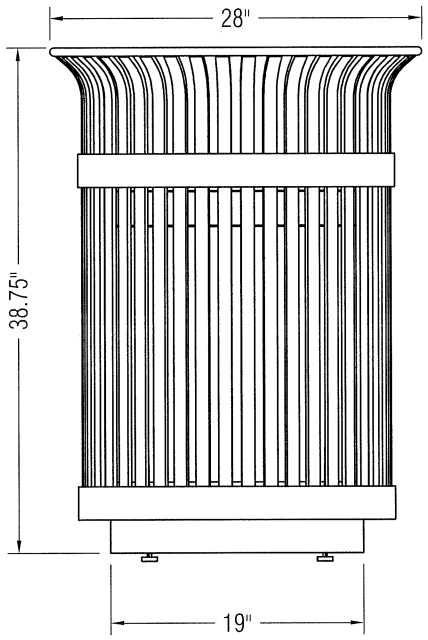
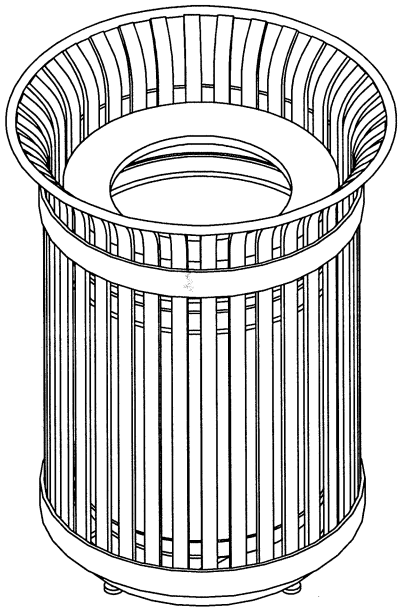
# ENGINEERING DIVISION

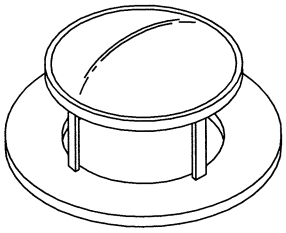
## BACKFLOW PREVENTION ENCLOSURE

## LI-3

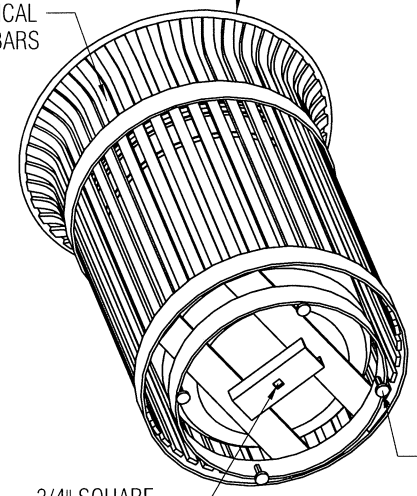


**PERSPECTIVE**



OPTIONAL RAIN BONNET LID
SEE NOTE 2




**UNDER VIEW**

NOTES:
1. VICTOR STANLEY S-42 (36 GAL) OR APPROVED EQUAL GLOSSY BLACK FINISH
2. OPTIONAL RAIN BONNET LID TO BE INSTALLED WHEN LOCATED IN RAIN EXPOSED AREAS

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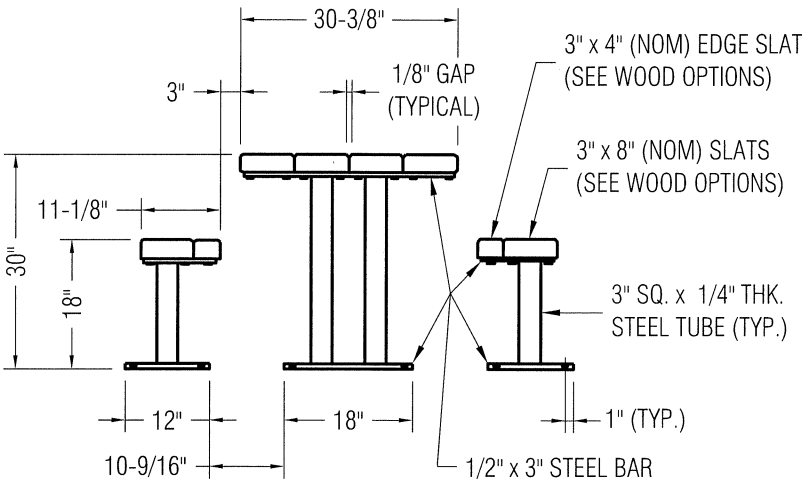
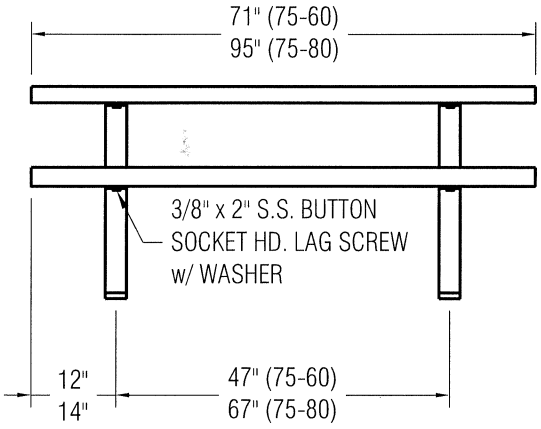
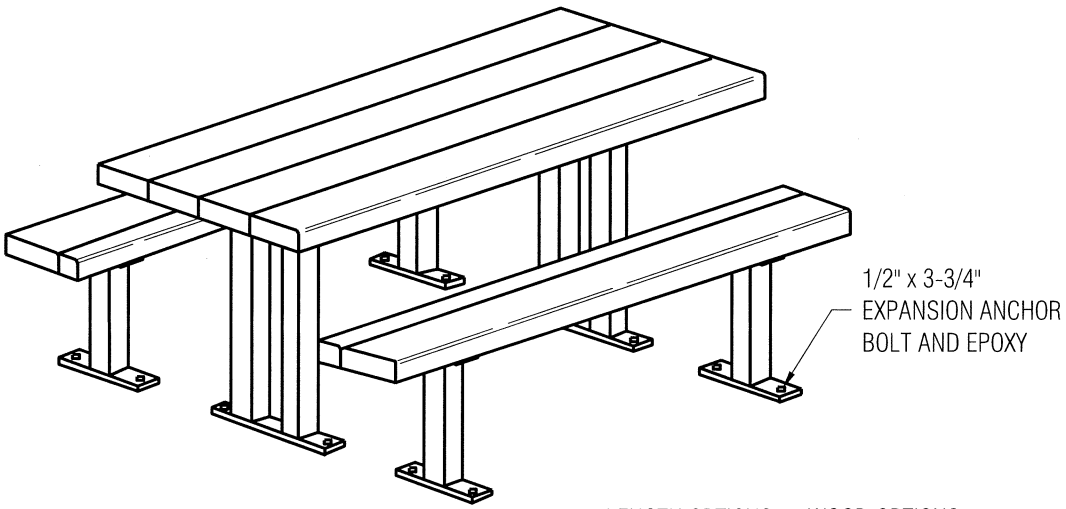
**ENGINEERING DIVISION**

**LITTER RECEPTACLE**

**LI-4**




NOTES:

1. DuMor, inc. 75 SERIES PICNIC TABLE OR APPROVED EQUAL

2. ALL STEEL MEMBERS COATED w/ZINC RICH EPOXY
   THEN FINISHED w/ A BLACK POLYESTER POWDER COATING

3. ALL WOOD MEMBERS TREATED w/ CLEAR PRESERVATIVE

| LENGTH OPTIONS | WOOD OPTIONS |
|---|---|
| 1. 6' TABLE | 1. CLEAR ALL HEART REDWOOD S4S EE |
| 2. 8' TABLE | 2. 'C' & BTR. DOUGLAS FIR KD S4S EE |
| | 3. CLEAR WESTERN RED CEDAR S4S EE |

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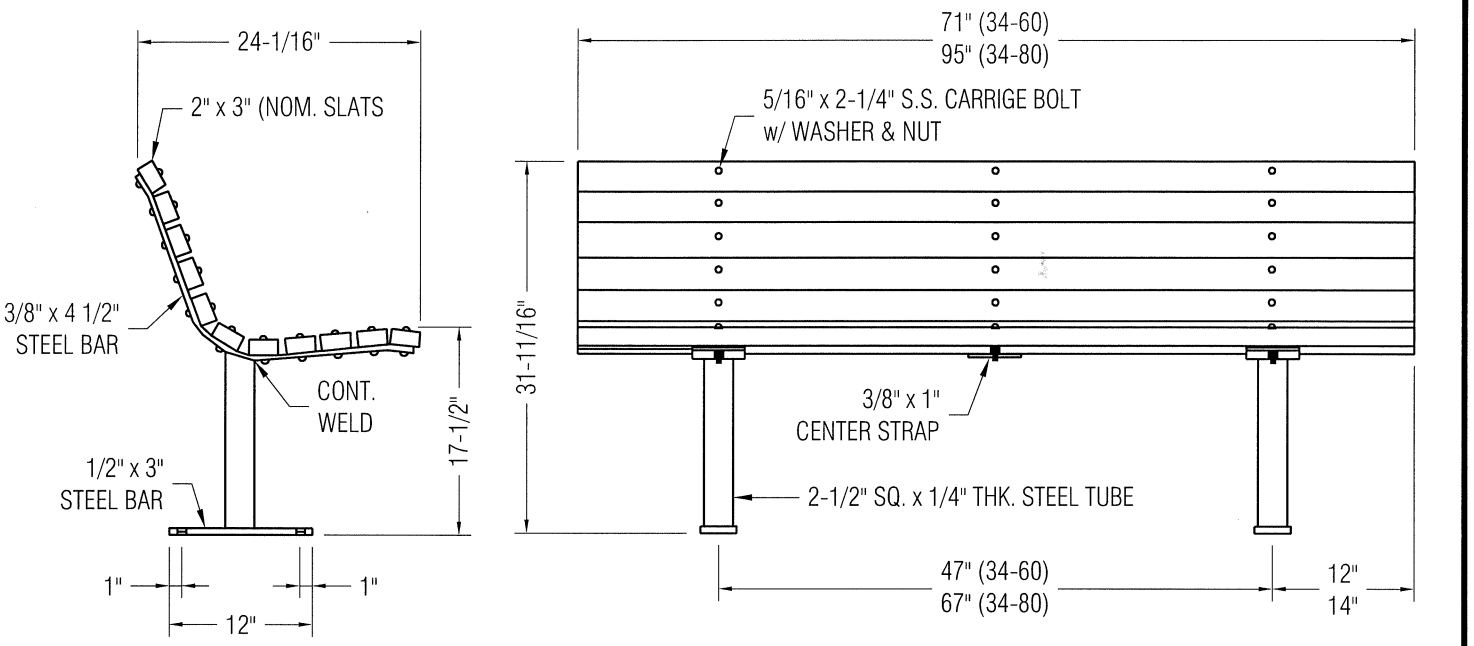
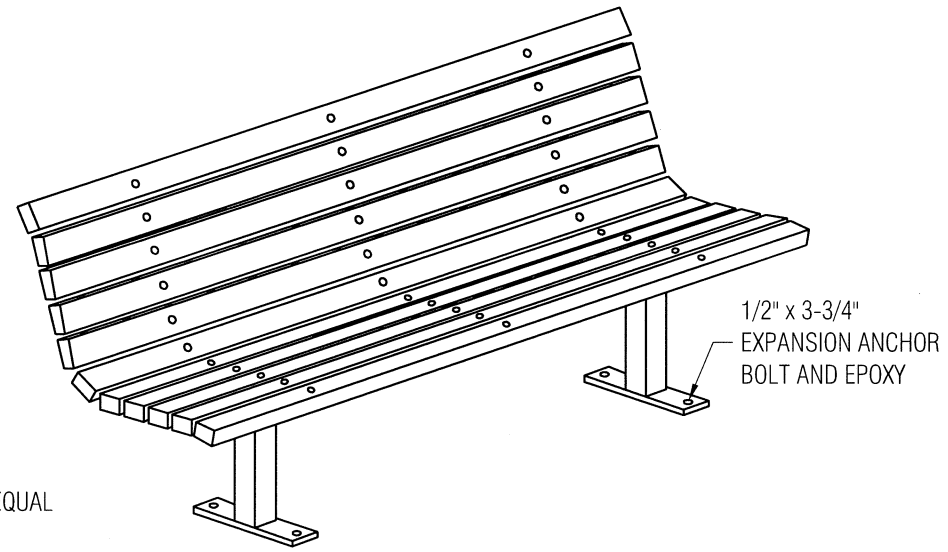
| REVISION | | ENGINEERING DIVISION | |
|---|---|---|---|
| Description | Date | | |
| | | PICNIC TABLE | LI-5 |




NOTES:

1. DuMor, Inc. 34 SERIES BENCH OR APPROVED EQUAL
2. ALL STEEL MEMBERS SHALL BE FINISHED w/ZINC RICH EPOXY THEN FINISHED w/ A BLACK POLYESTER POWER COATING
3. ALL WOOD MEMBERS SHALL BE TREATED w/ A CLEAR PRESERVATIVE

| LENGTH OPTIONS | WOOD OPTIONS |
|---|---|
| 1. 6' BENCH | 1. CLEAR ALL HEART REDWOOD S4S EE |
| 2. 8' BENCH | 2. 'C' & BTR. DOUGLAS FIR KD S4S EE |
| | 3. CLEAR WESTERN RED CEDAR S4S EE |

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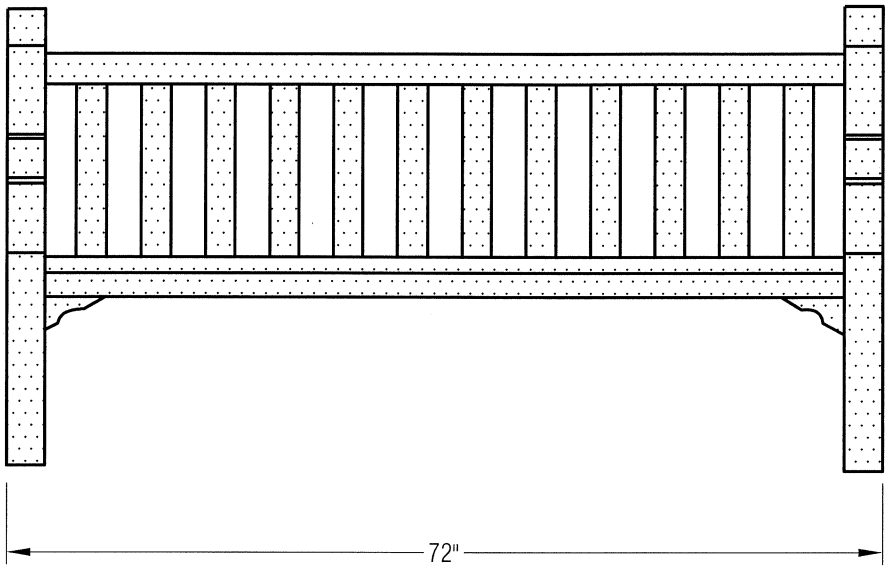
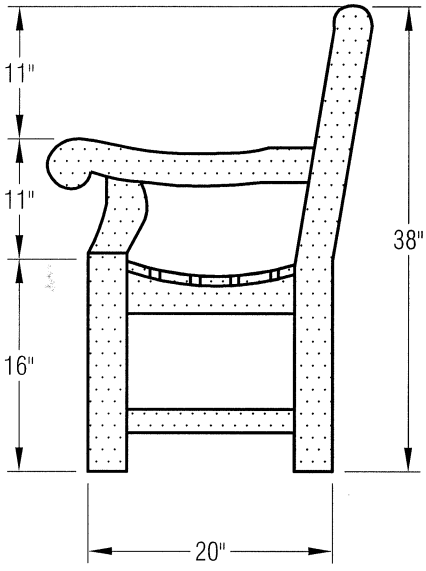
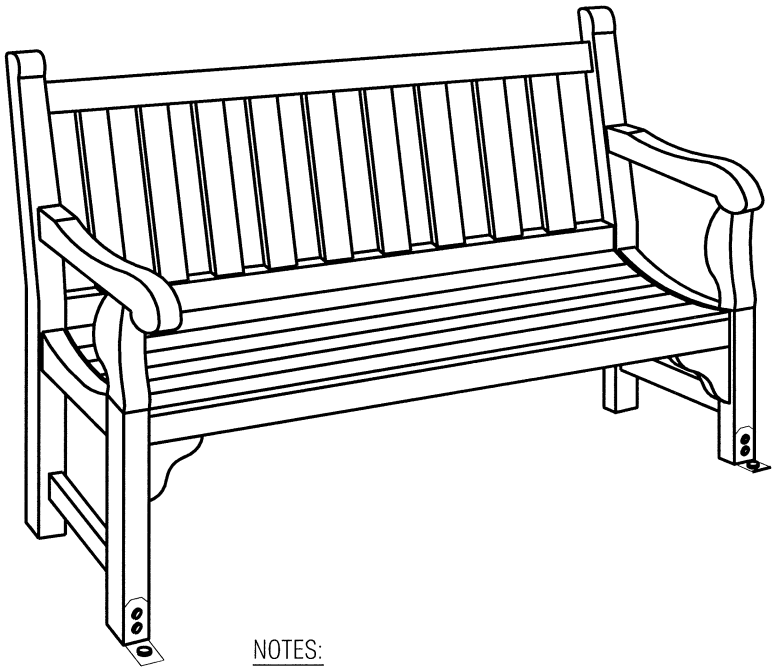
|---|---|---|---|
| Description | Date | | |
| | | PARK BENCH | LI-6 |



INSTALLATION NOTES:

1. USE 5/8" x 10" ALL-THREAD BOLT INSERTED 6" DEEP INTO CONCRETE WITH EPOXY

2. DRILL 4" INTO BOTTOM OF LEG OF BENCH SLIP OVER ALL-THREAD BOLT

3. ATTACH "L" BRACKET TO LEG AND ATTACH 3/8" x 2-1/2" EXPANSION ANCHOR BOLT INTO CONCRETE WITH EPOXY

NOTES:

1. MONARCH 6', COUNTRY CASUAL, TEAK BENCH OR APPROVED EQUAL (4' BENCH SIMILAR)

2. ALL WOOD MEMBERS TREATED w/ CLEAR PRESERVATIVE

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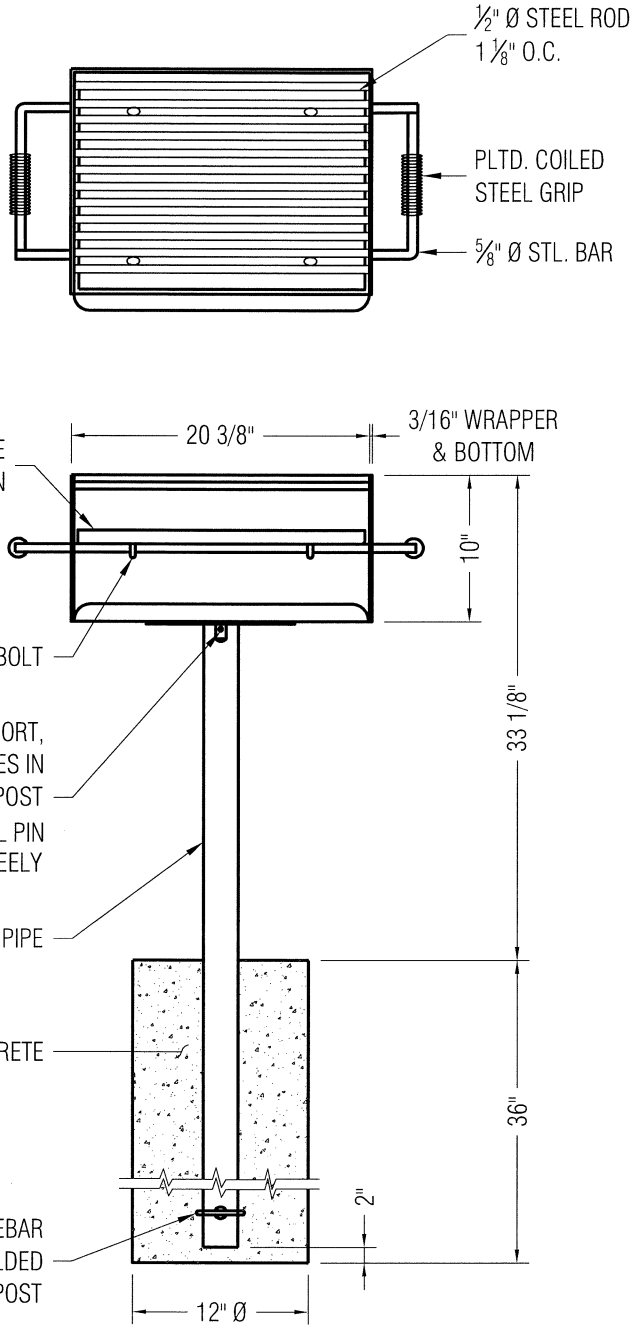
# ENGINEERING DIVISION

## DOWNTOWN BENCH

## LI-7

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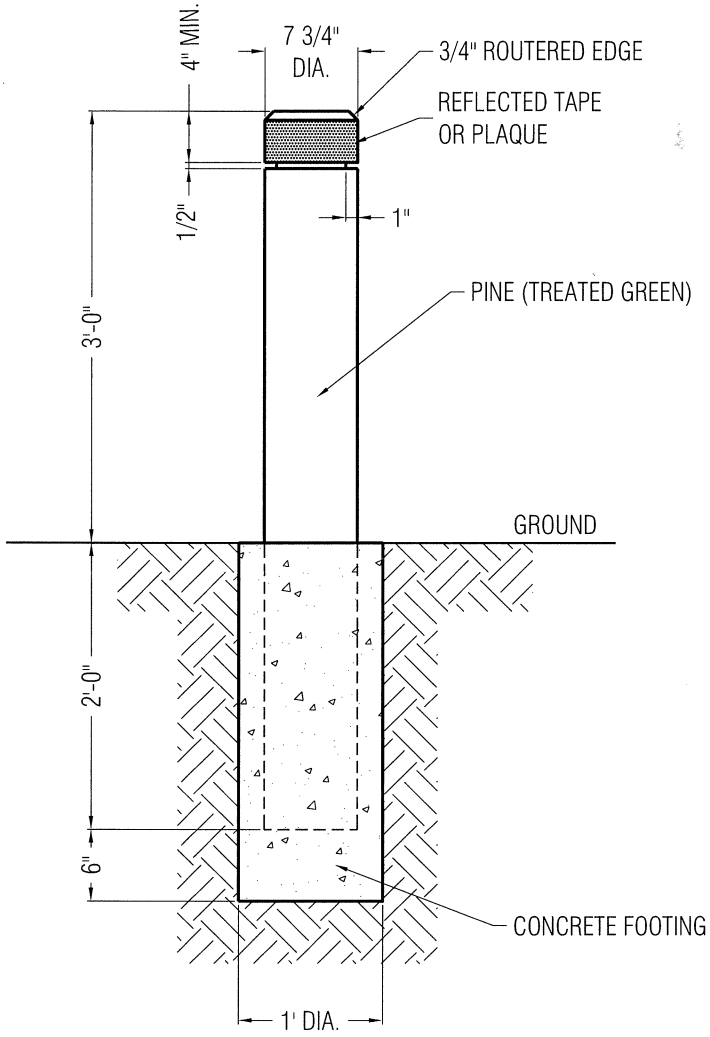
# ENGINEERING DIVISION

## PARK GRILL

## LI-8

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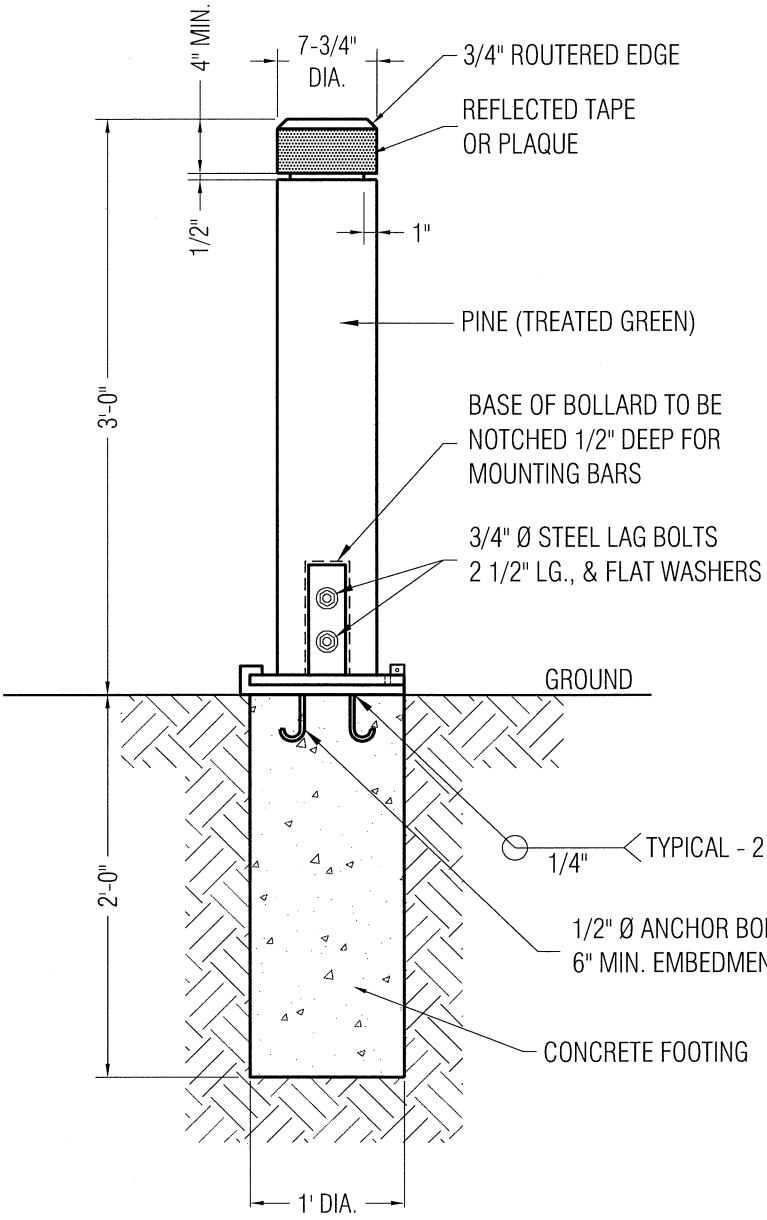
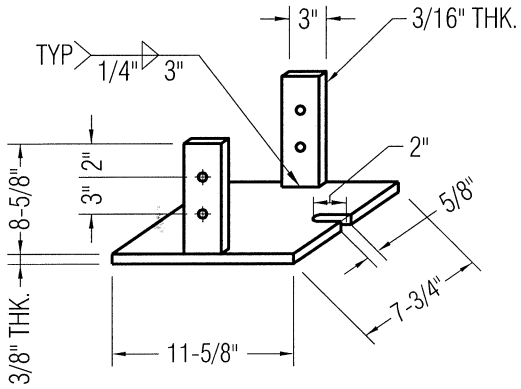
# ENGINEERING DIVISION

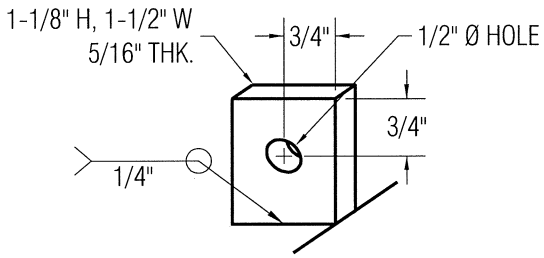
## FIXED BOLLARD

## LI-9

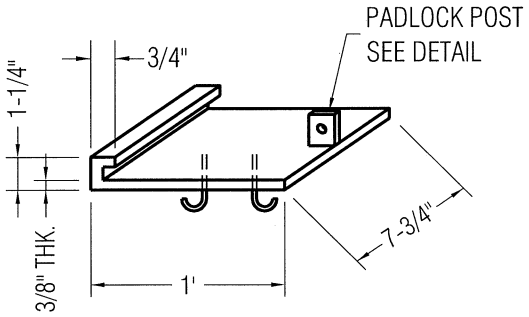



## MOUNTING PLATE




## PADLOCK POST




## MOUNTING PLATE BASE

NOTE:
ALL METAL ITEMS SHALL BE MADE OF GALVANIZED STEEL

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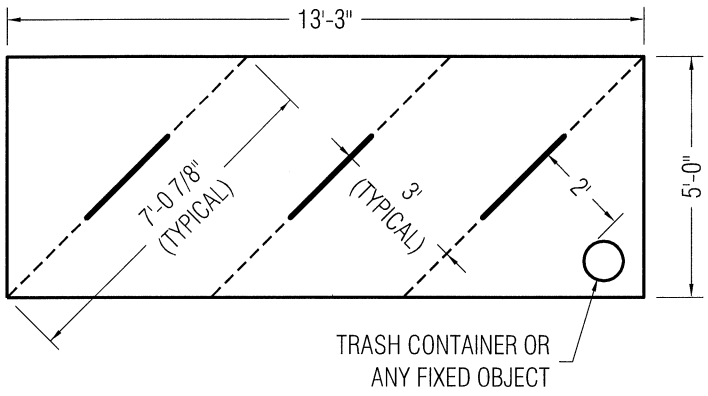
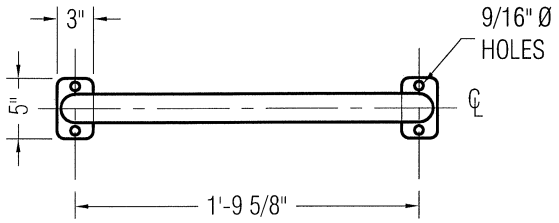
# ENGINEERING DIVISION

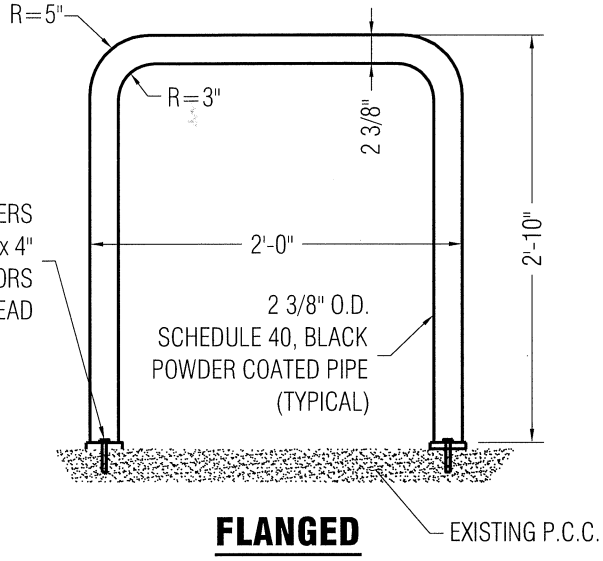
## REMOVABLE BOLLARD

## LI-10



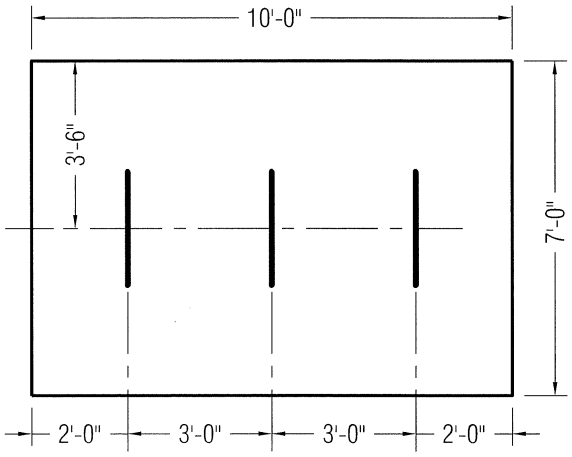

**PLAN VIEW**



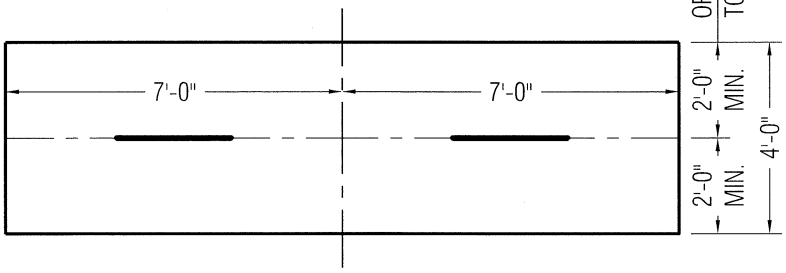




3/8" Ø ROUNDED CORNERS
BOLTS SHALL BE 1/2" Ø x 4"
CONCRETE WEDGE ANCHORS
WITH HEX HEAD

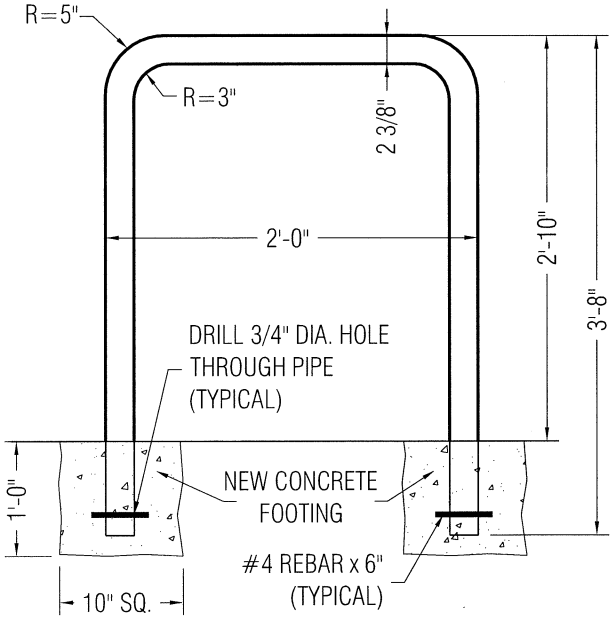
**FLANGED**




**PLAN VIEW**




**PLAN VIEW**




**IN GROUND**

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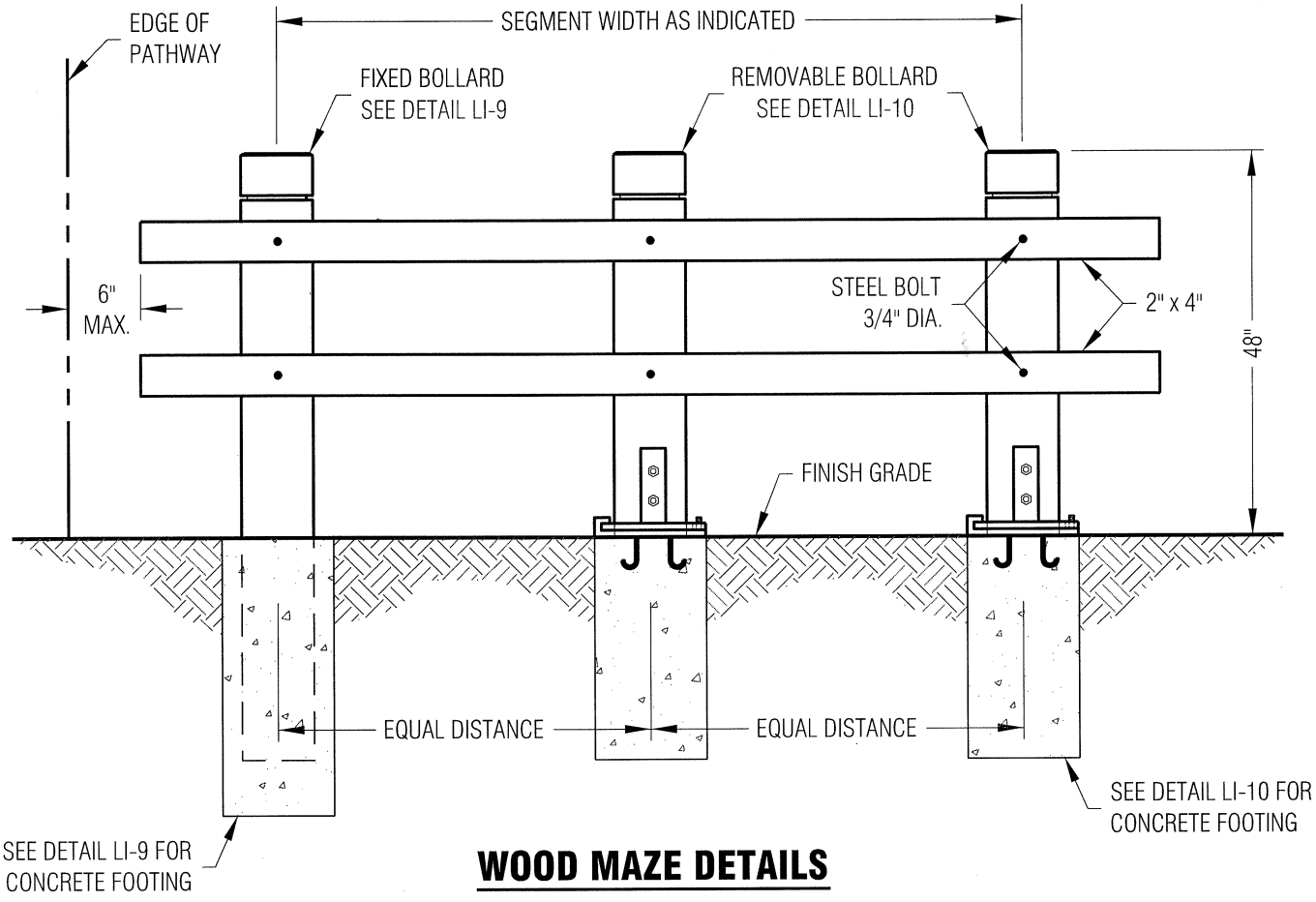
# ENGINEERING DIVISION

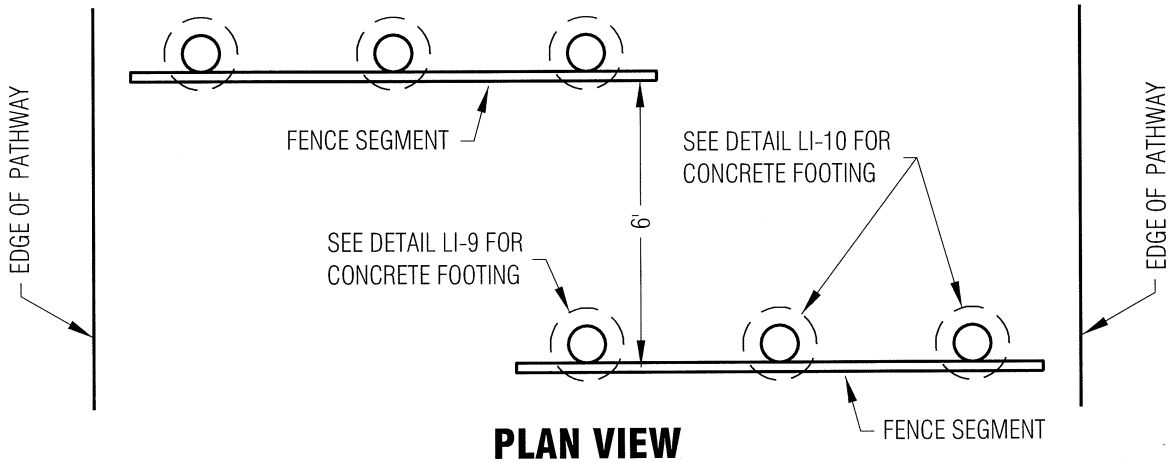
## BICYCLE RACK DETAILS AND INSTALLATION PLANS

## LI-11




## WOOD MAZE DETAILS

SEE DETAIL LI-9 FOR CONCRETE FOOTING




## PLAN VIEW

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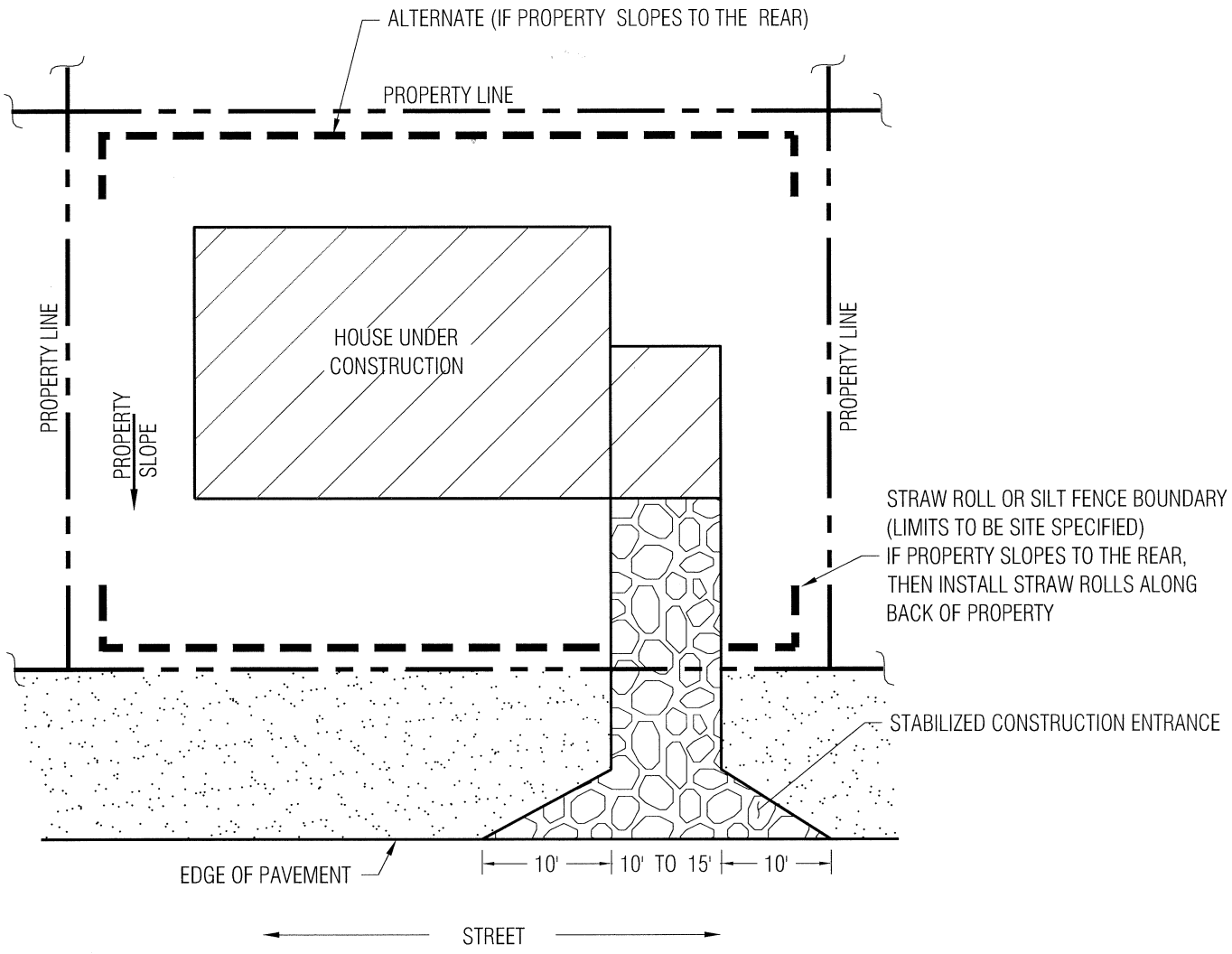
**ENGINEERING DIVISION**

**WOOD MAZE DETAILS**

**LI-12**




## GENERIC CONSTRUCTION SITE PLAN

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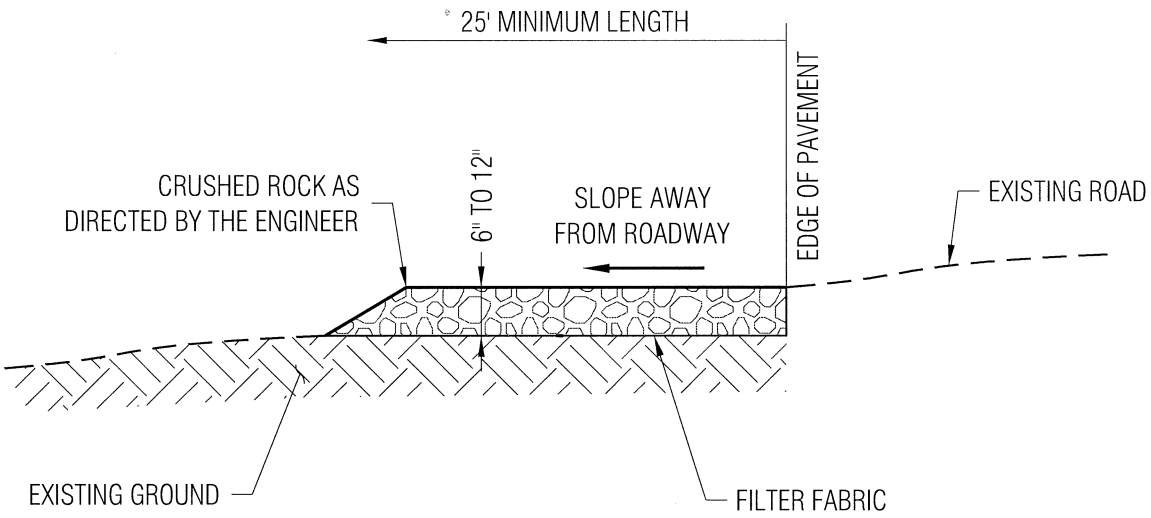
**ENGINEERING DIVISION**

**TYPICAL EROSION AND SEDIMENT CONTROL AT SINGLE FAMILY CONSTRUCTION SITE**

**EC-1**




NOTES:

1. PROVIDE A FANNED STABILIZED CONSTRUCTION ENTRANCE TO ACCOMODATE THE TURNING RADIUS OF CONSTRUCTION EQUIPMENT ON AND OFF THE PUBLIC STREET

2. INSTALL STABILZED CONSTRUCTION ENTRANCE ALONG NEW DRIVEWAY CORRIDOR FOR THE FULL PROPOSED WIDTH

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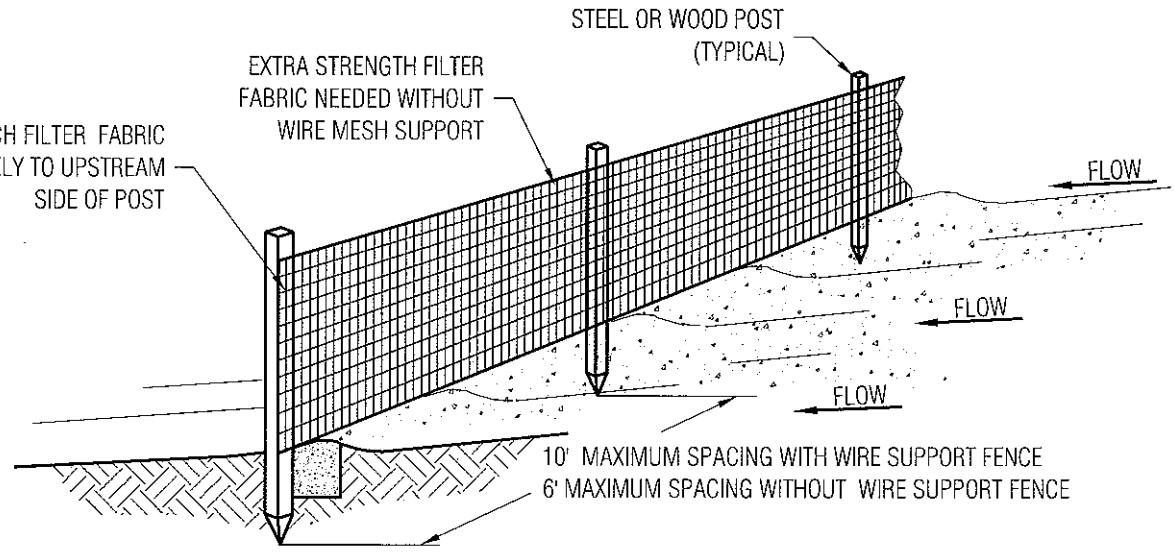
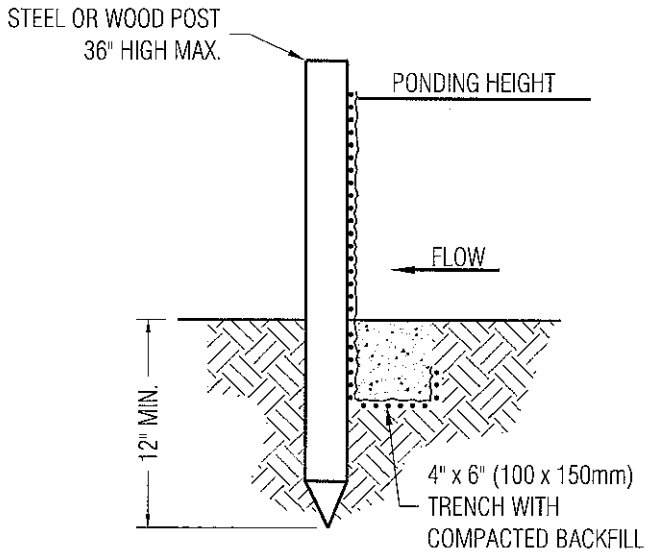
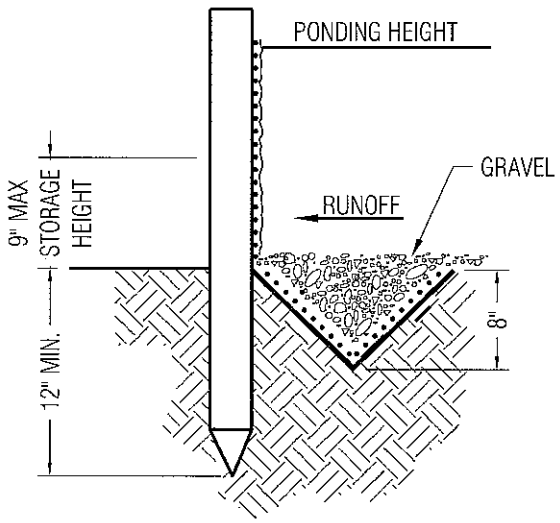
**ENGINEERING DIVISION**

**STABILIZED CONSTRUCTION SITE ENTRANCE**

**EC-2**




## STANDARD DETAIL
## TRENCH WITH NATIVE BACKFILL

## ALTERNATE DETAIL
## TRENCH WITH GRAVEL

NOTES:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHERE NECESSARY
2. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT TO RUN OFF-SITE AND CAN BE PERMANENTLY STABILIZED
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY

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| Description | Date |
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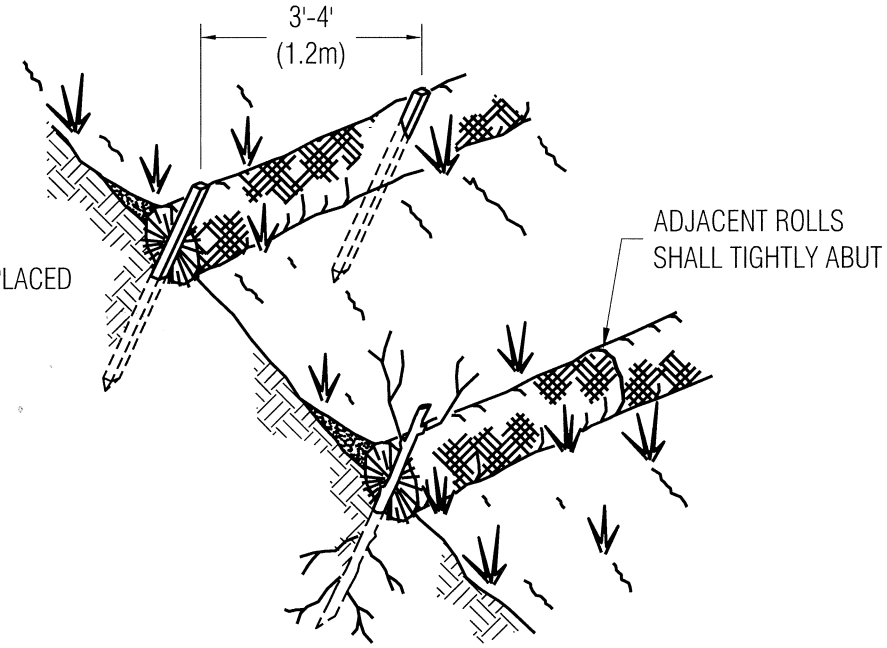
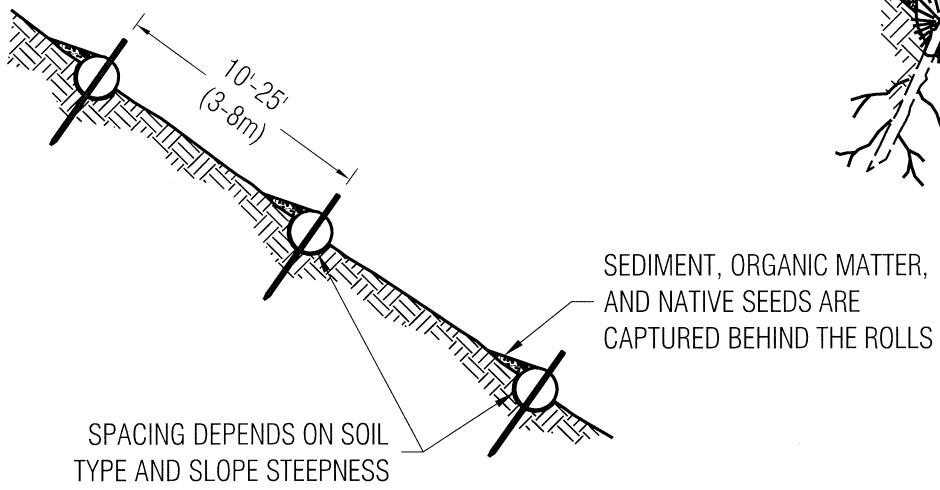
**ENGINEERING DIVISION**

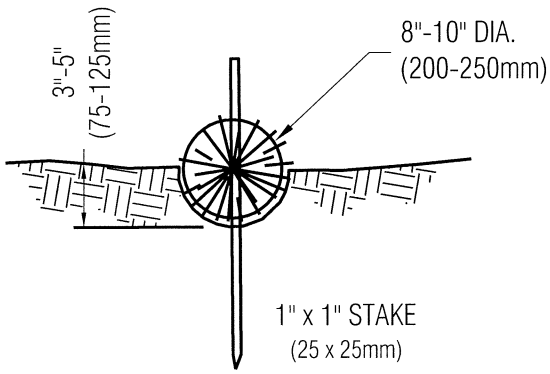
**SILT FENCE**

**EC-3**




NOTE:
STRAW ROLLS MUST BE PLACED
ALONG SLOPE CONTOURS




NOTES:

1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" (75-125mm) DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL

2. VERTICAL SPACING FOR SLOPE INSTALLATIONS
   - 1:1 SLOPES = 10 FEET APART
   - 2:1 SLOPES = 20 FEET APART
   - 3:1 SLOPES = 30 FEET APART
   - 4:1 SLOPES = 40 FEET APART
   - <4:1 SLOPE = ONE ROW AT LOW POINT

3. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT TO RUN OFF-SITE AND CAN BE PERMANENTLY STABILIZED

Approved: _____ City Engineer 1/4/10 Date

CITY OF LOS ALTOS · CALIFORNIA · INCORPORATED DECEMBER 1 · 1952

| REVISION | |
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| Description | Date |
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**ENGINEERING DIVISION**

**STRAW ROLLS**

**EC-4**