

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SOLEDAD  
UPDATING DESIGN STANDARDS AND STANDARD  
SPECIFICATIONS FOR PUBLIC  
IMPROVEMENTS

WHEREAS, the City Council on August 8, 1989 adopted Resolution No. 1931 on August 8, 1989 adopting Design Standards and Specifications for Public Improvements, and;

WHEREAS, City Staff has reviewed the current standards with the City Engineer and revisions and modifications have been prepared, and;

WHEREAS, the establishment and updating of the Design Standards and Standard Specifications for public Improvements are in the public interest and safety, and;

WHEREAS, the establishment or modification of improvement standards have been determined to be classified as a Class 8, categorical exempt from the California Environmental Quality Act (CEQA) (Section 15308).

NOW, THEREFORE, BE IT HEREBY RESOLVED by the City Council of the City of Soledad, that the document entitled, "CITY OF SALINAS, CALIFORNIA, DEPARTMENT OF PUBLIC WORKS DESIGN STANDARDS AND SPECIFICATIONS" dated July 1985 and revised by the City of Soledad per Resolution No. 1931 along with modification, marked "Exhibit A", hereunto attached and by referenced made part hereof, be adopted as the Standards and Specifications for the City of Soledad.

PASSED AND ADOPTED at a regular meeting of the City Council of the City of Soledad duly held on the 25th day of January, 1993, by the following vote:

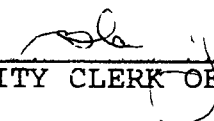
AYES, and in favor, thereof, Councilmembers: John Holguin, Ben Jimenez, Jr., Richard Ortiz, Mayor Pro Tem Fabian Barrera, Mayor Fred Ledesma

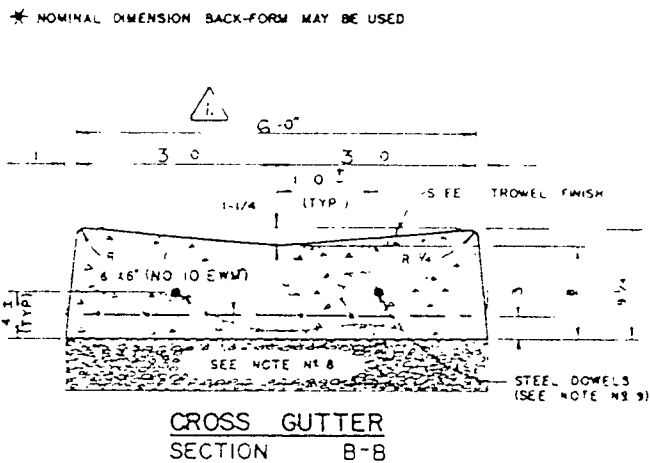
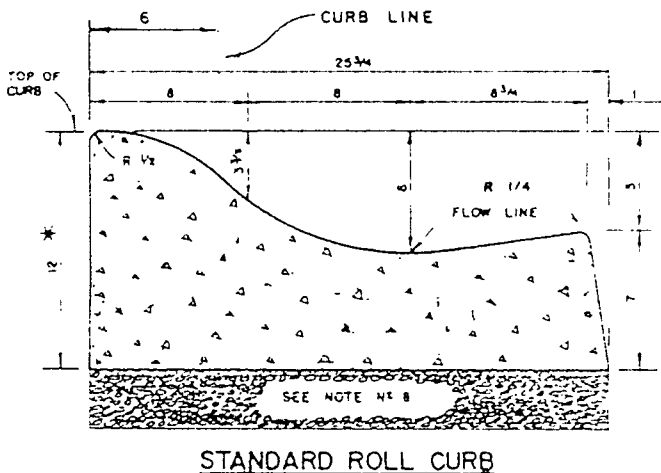
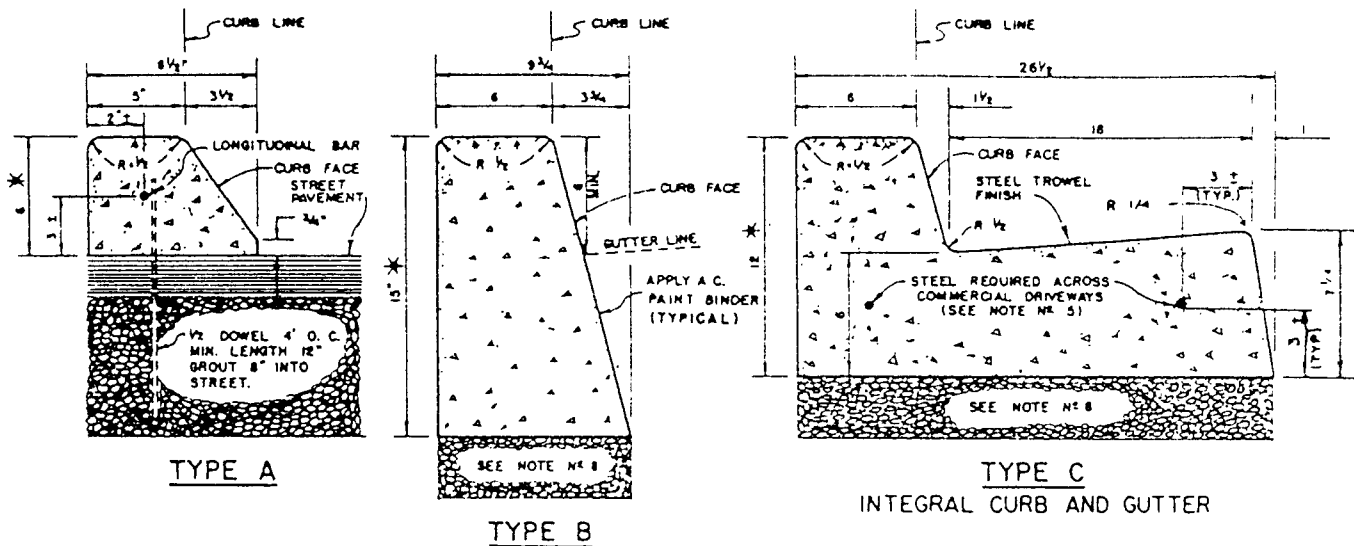
NOES, Councilmembers: None

ABSENT, Councilmembers: None

  
MAYOR OF THE CITY OF SOLEDAD

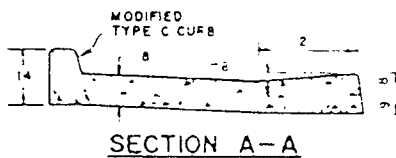
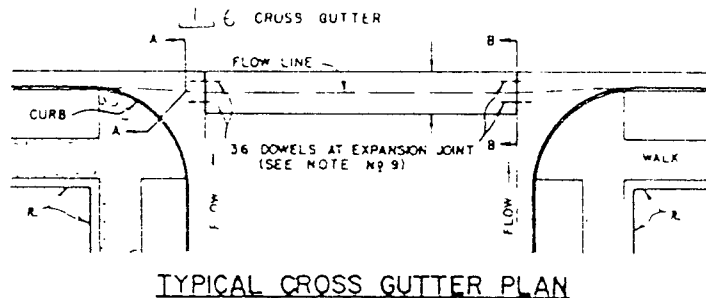
ATTEST.

  
CITY CLERK OF THE CITY OF CITY OF SOLEDAD



**NOTES**

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 73 OF THE STANDARD SPECIFICATIONS.
2. EXPANSION JOINTS SHALL BE SLIP DOWELED AT CURB RETURNS (SEE STANDARD PLAN 2).
3. TOP AND FRONT OF ALL CURBS SHALL BE FINE BROOM FINISHED.
4. CURB RETURNS SHALL BE TYPE "C" EXCEPT ADJACENT TO CROSS GUTTERS WHERE MODIFIED TYPE C CURB AND APRON SHALL BE USED.
5. CURB AND GUTTER AT COMMERCIAL DRIVEWAYS SHALL HAVE 2-#4 BARS INSTALLED FOR THE WIDTH OF THE DRIVEWAY (HEAVY DUTY TYPE "C").
6. INSTALL 3/4" EXPANSION JOINTS AT 20-FOOT INTERVALS MAX ON TYPE "C" CURB. PROVIDE WEAKENED PLANE JOINTS AT 20 FOOT INTERVALS WITH EXPANSION AT 60 FOOT INTERVALS ON EXTRUDED CURB (SEE STANDARD PLAN 2).
7. CLASS A OR B CONCRETE SHALL BE USED.
8. MINIMUM OF CLASS 4 A B OR HIGHER TYPE BASE MATERIALS.
9. CROSS GUTTERS SHALL HAVE 2 NO. 4 36 LONG STEEL DOWELS AT MID DEPTH CENTERED AT EXPANSION JOINT FOR SLIP DOWEL DETAIL SEE STANDARD PLAN 2.
10. AN APPROVED ADHESIVE MAY BE USED IN LIEU OF DOWELS IN TYPE "A" EXTRUDED CURB FOR PLACEMENT ON EXISTING PAVEMENT OMIT HORIZONTAL STEEL IN EXTRUDED CURB.



DEPARTMENT OF PUBLIC WORKS CITY OF SOLEDAD, CALIFORNIA

APPROVED

DATE 1-8-93

STANDARD DETAIL

CITY ENGINEER

RCE 17,186 (EXPIRES 6-30-93)

**EXISTING RESIDENTIAL**

**NEW RESIDENTIAL-COMMERCIAL-INDUSTRIAL-COMMERCIAL**

**NOTES**

- 1 CONCRETE SIDEWALK SHALL BE 80 FEET MINIMUM IN COMMERCIAL AREAS AND 5 FEET MINIMUM IN INDUSTRIAL AREAS. A 4' WIDE SIDEWALK CAN BE USED IN COMMERCIAL AREAS UPON APPROVAL OF THE CITY ENGINEER. SEE SIDEWALK PER CITY OF SALINAS DESIGN STANDARDS.
- 2 ALL SIDEWALK IS TO BE ONE COURSE, CLASS B, C AND FINE BROOM FINISH.
- 3 ASPHALT EXPANSION JOINTS SHALL BE PLACED WITH MAXIMUM SPACING OF 60 FEET AND WHEREVER SIDEWALK ADJOINS EXISTING BUILDING OR SIDEWALK.
- 4 ASPHALT EXPANSION JOINT SHALL BE COMPOSED OF ASPHALT FIBER AND MINERAL FILLER PREPARED TO SPEC 5 WITH ASPHALT IMPREGATED LINERS ON BOTH SIDES AND SHALL CONFORM WITH ASTM D-994-3 AND AASHTO M-33 4B SPECIFICATIONS.
- 5 SLIP DOWELS PER DETAIL AT B, R AND E.
- 6 CONTRACTOR SHALL STAMP HIS NAME AND MONTH AND YEAR OF CONSTRUCTION ON SIDEWALK A MINIMUM OF ONCE PER CONSTRUCTION AND ONCE PER EACH 300 SQUARE FEET. MONTH AND YEAR MAY BE STAMPED IN NUMBERS.
- 7 ALL DIMENSIONS AS SHOWN UNLESS OTHERWISE SPECIFIED ON PLANS.
- 8 ACCESS RAMP PER STANDARD PLAN #4.
- 9 55 FOOT WIDE SIDEWALKS LOCATE ADJACENT TO CURB PERMITTED ON RESIDENTIAL UNLESS CUL DE SAC STREETS. ON STREETS HAVING SIDEWALK SCHEDULES OF 8 FEET OR LESS AND ON STREETS ADJOINING PORTIONS OF SUBDIVISIONS WHERE AT LEAST 30% OF THE LOTS HAVE AN AREA OF 3,000 S.F. OR 55.

**TYPICAL SIDEWALK EXPANSION JOINT**

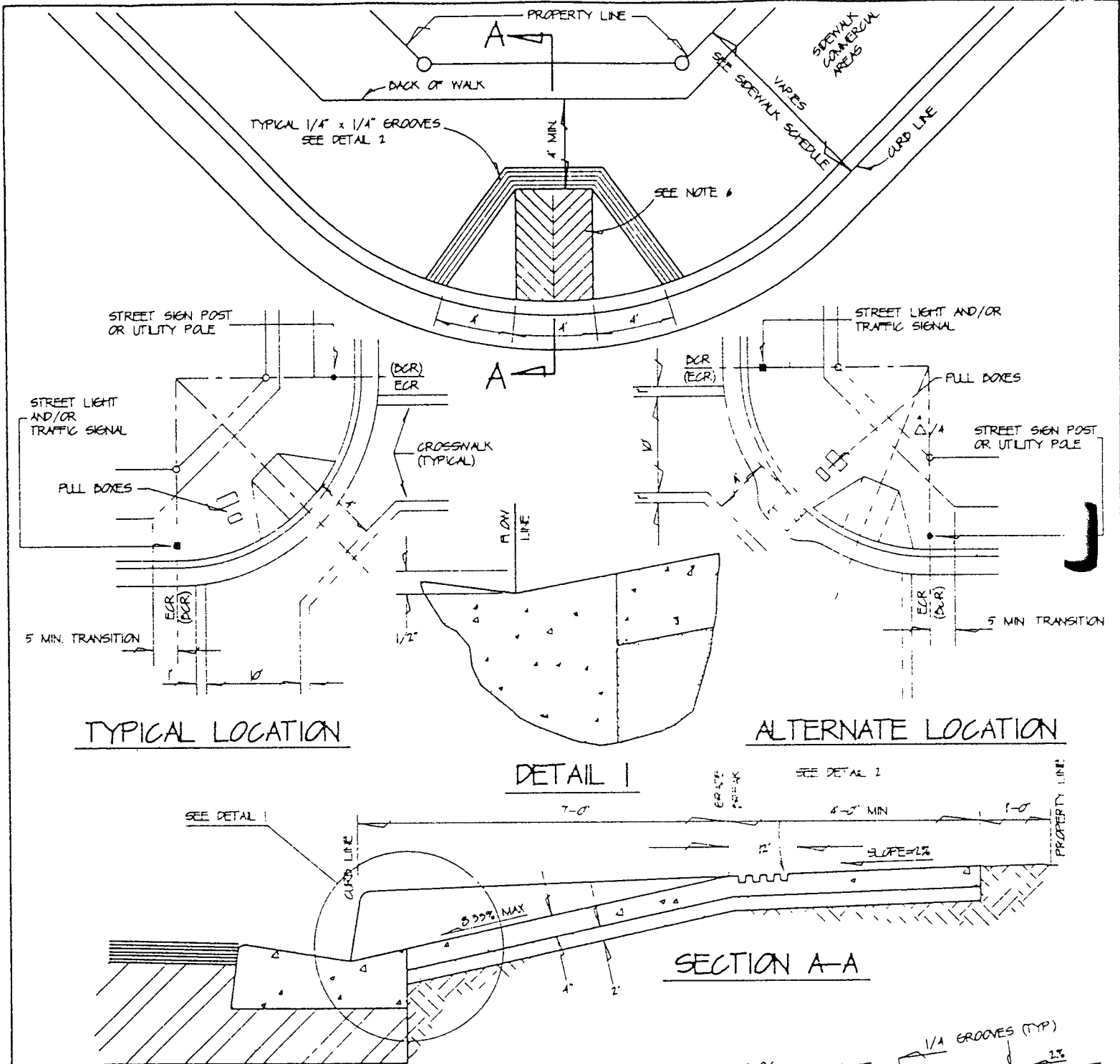
**TYPICAL DOWEL DETAIL AT CURB RETURNS**

**SIDEWALK**

DEPARTMENT OF PUBLIC WORKS CITY OF SOLEDAD, CALIFORNIA

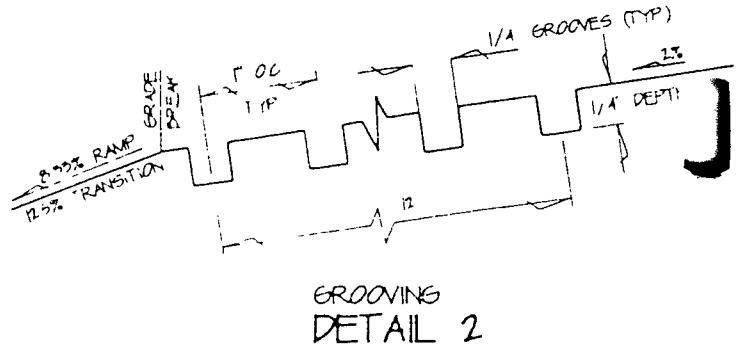
APPROVED DATE 1-8-93 STANDARD DETAIL

*Arvid M. Brunetti*  
CITY ENGINEER RCE 17,186 (EXPIRES 6-30-93) 2



NOTES

- 1 ACCESS RAMP SHALL BE MONOLITHIC CLASS B FCC 4" THICK WITH 2 SAND CUSHION, AND WITH A COMBEE BROOM FINISH
- 2 WIDTH OF SIDEWALK AND RADIUS OF CURB RETURN SHALL BE PER CONSTRUCTION DRAWINGS
- 3 CURB AND GUTTER SHALL BE PER STANDARD PLAN NO 1
- 4 SIDEWALK SHALL BE PER STANDARD PLAN NO 2
- 5 ALTERNATIVE LOCATIONS/CONFIGURATIONS ARE UP TO USER APPROVAL BY THE CITY ENGINEER
- 6 PROVIDE GROOVES (2" OC) ON SLOPING PORTION OF RAMP WHEN LOCATED WITHIN CURB RETURN W/ALIGNMENTS PARALLEL TO CROSSWALK STRIPING



Department of Public Works

City of Soledad, California

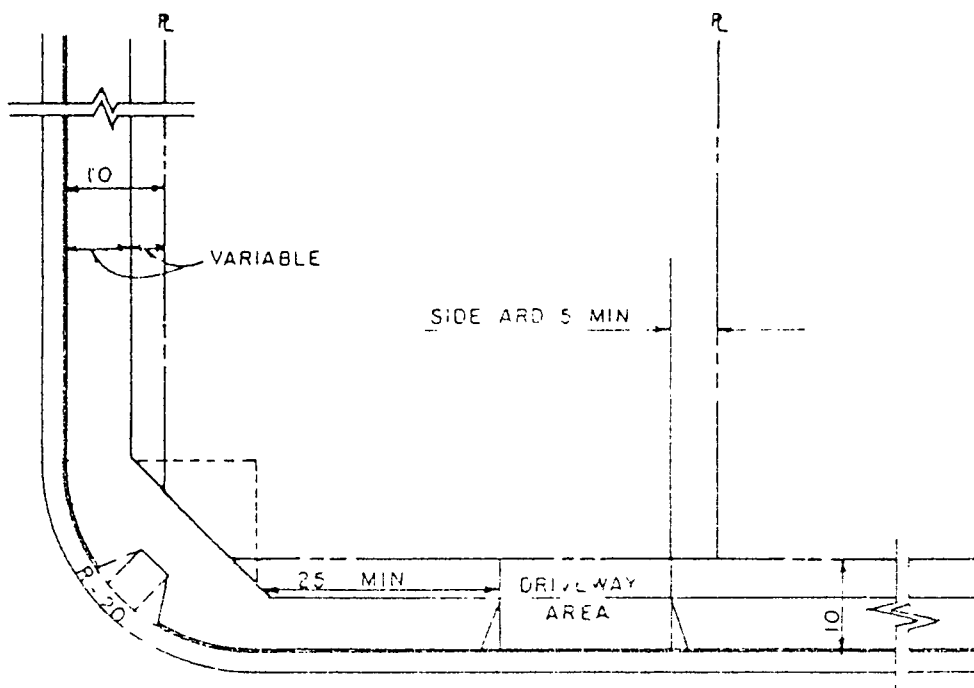
ACCESS RAMP

Standard Detail

City Engineer *[Signature]* RCE 17,186 (expires 6/30/93)

Approved *[Signature]*  
Date 1-8-93

4



NOTES

- 1 ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADOPTED STANDARD SPECIFICATIONS
- 2 SIDEYARD SHALL BE 5 MINIMUM UNLESS APPROVED BY CITY ENGINEER IN WRITING
- 3 IMPROVEMENT REQUIREMENT MAY BE MODIFIED AS PART OF ZONING APPROVAL OR BY TRAFFIC COMMITTEE (PUBLIC WORKS SUPERINTENDENT POLICE CHIEF CITY ENGINEER & PLANNING DIRECTOR) BASED ON FINDINGS OF UNIQUENESS OF SITE PUBLIC SAFETY NEEDS AND GOOD SITE DESIGN

DRIVEWAY DESIGN STANDARDS

ZONING	FROM PROPERTY LINE	FROM CURB SETBACK	TO CURB	MAX	MAX
RESIDENTIAL	5'-0"	25'-0"	2'-0"	2'	50%
COMMERCIAL	5'-0"	5'-0"	1'-0"	2'	
INDUSTRIAL	5'-0"	0'	1'-0"	2'	

SIDEYARD DETAIL

DEPARTMENT OF PUBLIC WORKS CITY OF SOLEDAD, CALIFORNIA

APPROVED DATE 1-8-93

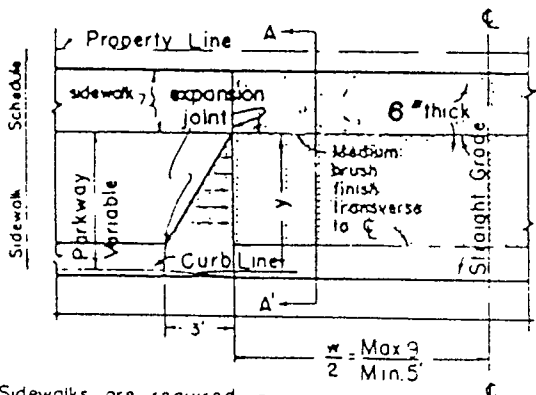
*[Signature]*  
CITY ENGINEER

STANDARD DETAIL

PCE 17,18C (EXPLANATION E-30-93)

5A

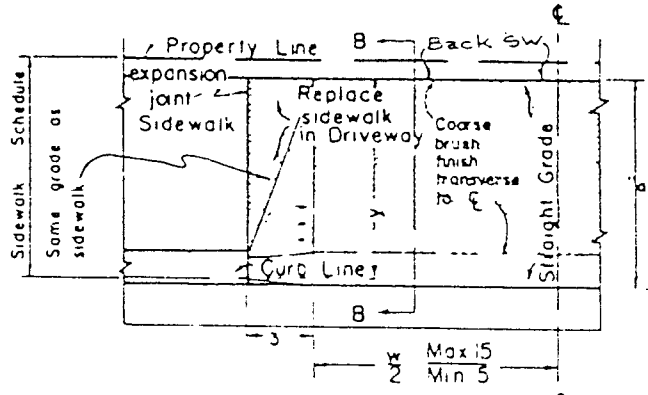
EXIST DRIVEWAY APPROACH



Sidewalks are required with driveways if no sidewalks exist.

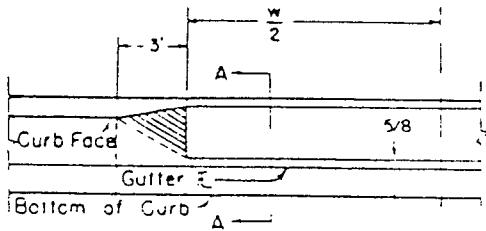
PLAN

NEW RESIDENTIAL INDUSTRIAL-COMMERCIAL

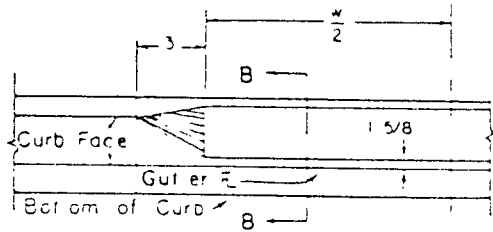


PLAN

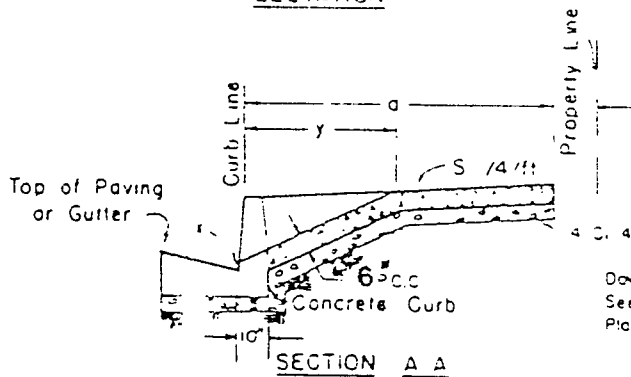
DRIVEWAY APPROACH PA VEMENT LIMITS



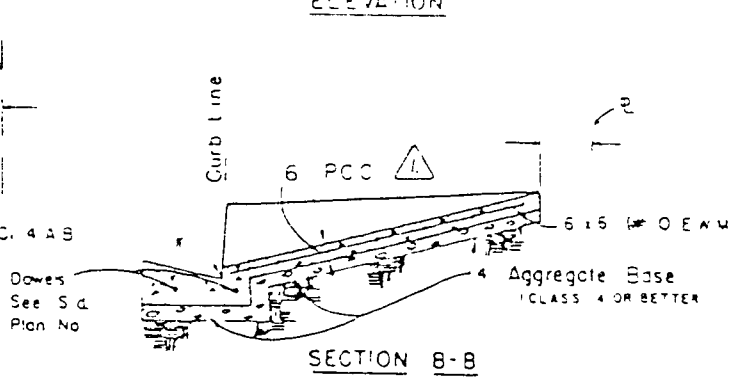
ELEVATION



ELEVATION



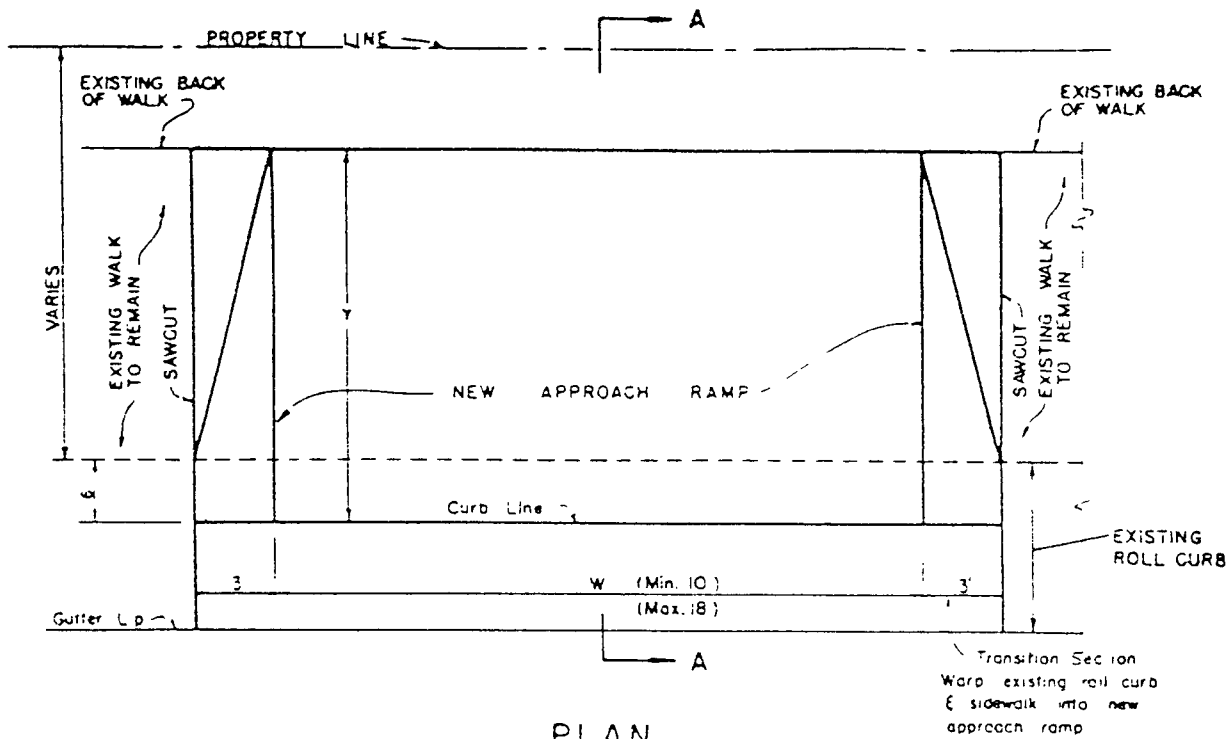
SECTION A-A



SECTION B-B

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADOPTED STANDARD SPECIFICATIONS
2. THE AREA INCLUDED WITHIN THE X AND Y SLOPES SHALL BE MEDIUM BRUSH FINISHED THE BALANCE OF THE DRIVEWAY SHALL BE FINE BROOM FINISHED TO MATCH THE ADJOINING SIDEWALK SCORING LINES SHALL BE SPACED TO EVENLY DIVIDE THE AREA INTO BLOCKS OF NOT LESS THAN 3 FEET NOR MORE THAN 4 FEET OR TO MATCH THE EXISTING
3. ON COMMERCIAL DRIVEWAYS Y SHALL BE EQUAL TO 3' OR RESIDENTIAL DRIVEWAYS Y SHALL EXTEND TO THE FRONT EDGE OF THE SIDEWALK BUT SHALL NOT BE LESS THAN 4 FEET UNLESS OTHERWISE SPECIFIED
4. RESIDENTIAL DRIVEWAYS SHALL HAVE 6 INCH MINIMUM CLASS 4 A B OR BETTER COMMERCIAL DRIVEWAYS SHALL HAVE 6 INCH MINIMUM CLASS 4 A B AND 6 X 6 1/2 X 10 EAW PLACED AT MID DEPTH
5. CONCRETE SHALL BE CLASS B PER STANDARD SPECIFICATIONS
6. ON RESIDENTIAL DRIVEWAY CONSTRUCTION ONLY CONTRACTOR MAY REMOVE VERTICAL CURB AND CONSTRUCT DRIVEWAY AGAINST REMAINING GUTTER AN APPROVED BONDING AGENT OR EPOXY SHALL BE APPLIED TO JOIN CONCRETE SURFACES
7. CURB HEIGHT HIGHER THAN 6 1/2" SHALL BE APPROVED BY THE CITY ENGINEER

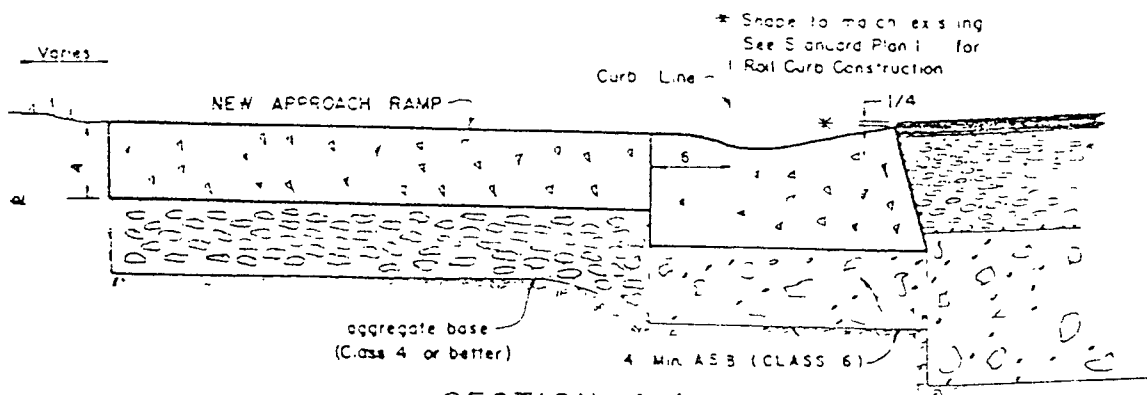
8. SEE STD. DETAIL 5A.



PLAN

NOTES

1. "Y" SHALL EXTEND TO THE FRONT EDGE OF THE SIDEWALK BUT SHALL NOT BE LESS THAN 4 FEET UNLESS OTHERWISE SPECIFIED.
2. IF SIDEWALK IS ADJACENT TO CURB "Y" SHALL EXTEND TO BACK OF WALK.
3. AFTER REMOVING EXISTING SECTIONS AND CLEANING UP OF DEBRIS WET ROUGHEN WITH WIRE BRUSH, AND A PLY BRUSH COAT OF NEAT CEMENT ON ALL JOIN SURFACES BEFORE REPOURING SECTION PER PLAN.
4. CONCRETE SHALL BE CLASS B PER STANDARD SPECIFICATIONS



SECTION A-A

NOTE ROLLED TYPE CURB ONLY TO BE USED WITH WRITTEN APPROVAL OF CITY ENGINEER & P.W.D.

DRIVEWAY APPROACH FOR ROLL TYPE CURB

DEPARTMENT OF PUBLIC WORKS

CITY OF SOLEDAD, CALIFORNIA

APPROVED

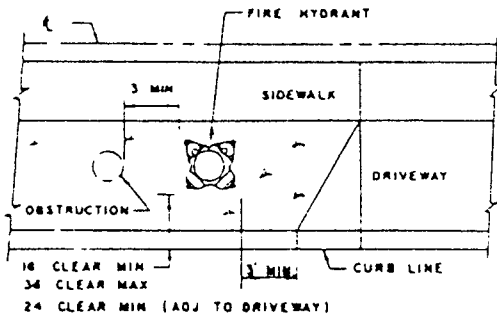
DATE 1-8-93

STANDARD DETAIL

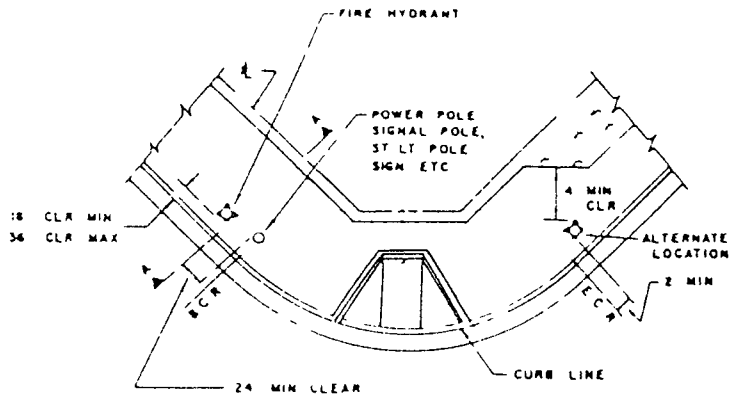
*[Signature]*

CITY ENGINEER

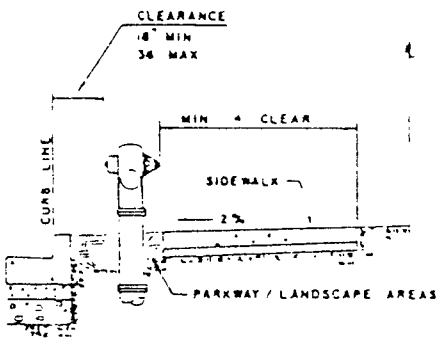
RCE 17,186 (EXPIRES 6-30-93)



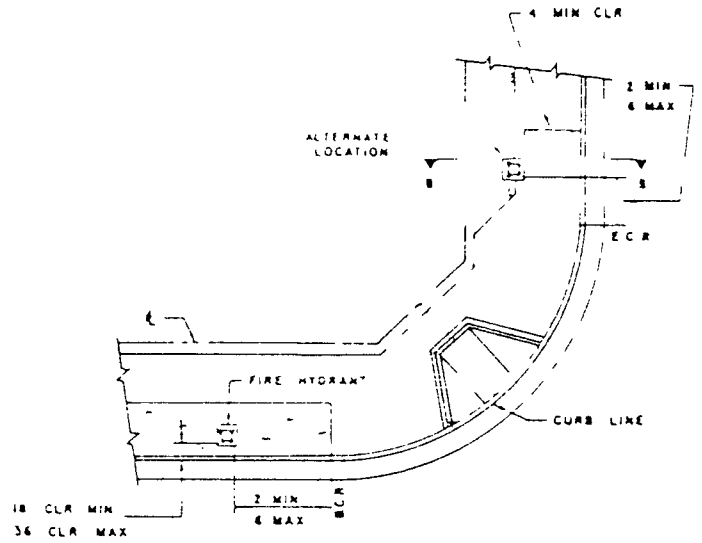
CASE A IN PARKWAY STRIP



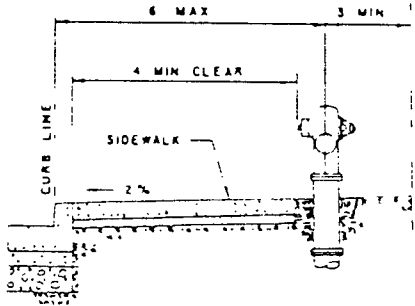
CASE B IN SIDEWALK AT CURB RETURN



SECTION A-A'



CASE C IN PARKWAY/PLANTER AT CURB RETURN



SECTION B-B'

NOTES

- 1 SIDEWALKS ADJACENT TO FIRE HYDRANT LOCATIONS SHALL BE A MINIMUM 4' WIDE (CLEARANCE FOR PEDESTRIAN TRAFFIC)
- 2 DETAILS SHOW PREFERRED HYDRANT LOCATIONS. NO DIMENSIONS OR DETAIL HEREON SHALL PRELUDE THE FINAL LOCATION OF FIRE HYDRANT IN THE FIELD BY THE SALINAS FIRE DEPARTMENT
- 3 SEE STANDARD PLAN 12 FOR FIRE HYDRANT CONSTRUCTION

Department of Public Works

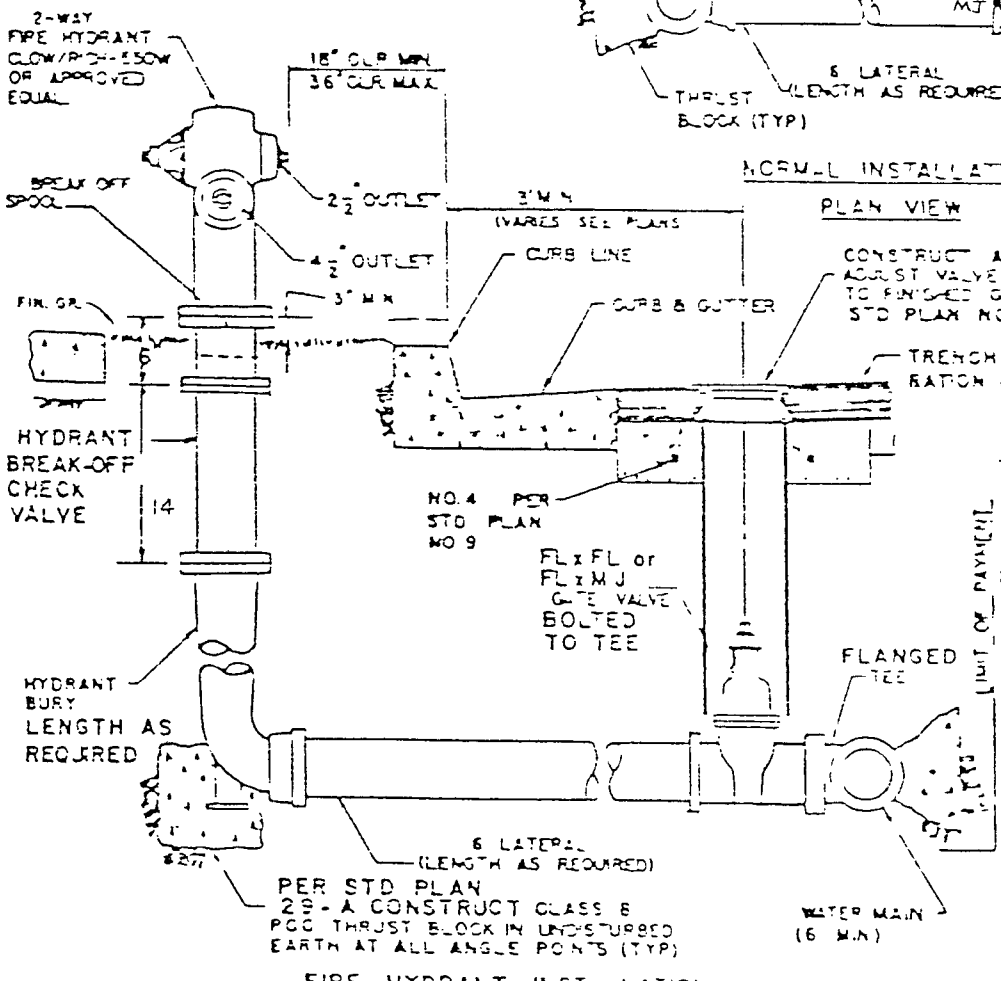
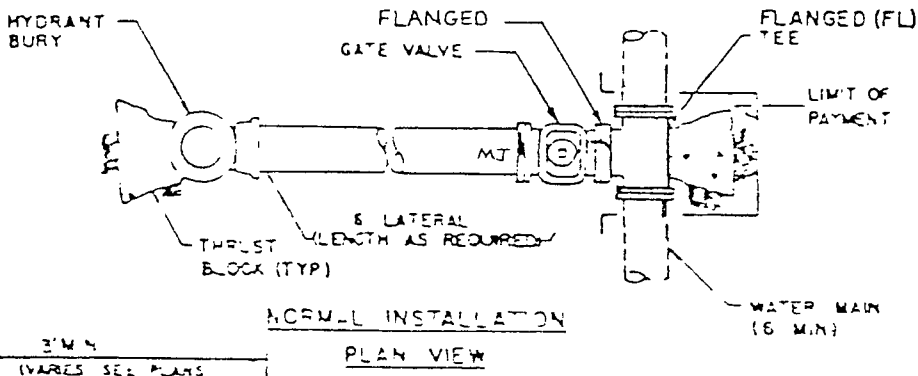
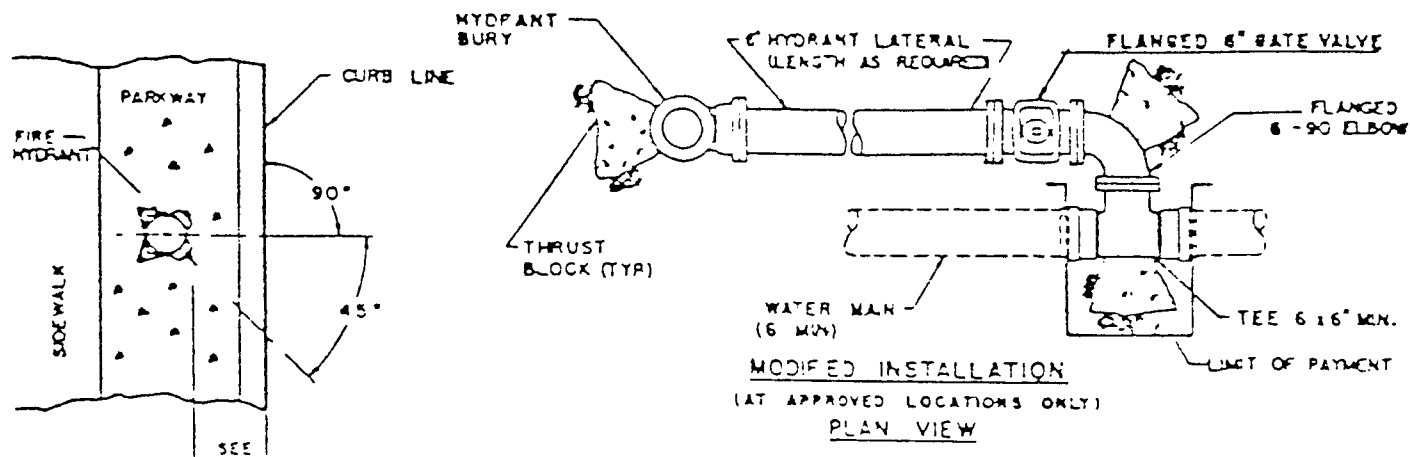
City of Soledad, California

Fire Hydrant Location

Standard Detail

*André R. Burnett*  
 City Engineer R.C.E. 17,186 (expires 6/30/93)

Approved *AMB*  
 Date *1-8-93*



- NOTES**
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH REQUIREMENTS OF THE APPROVED ENCROACHMENT PERMIT & STANDARD SPECIFICATIONS.
  2. DUCTILE IRON PIPE SHALL CONFORM TO THE AWWA SPECIFICATION C151.
  3. DUCTILE IRON FITTINGS SHALL CONFORM TO THE AWWA SPECIFICATION C110.
  4. NO OTHER SERVICE CONNECTIONS SHALL BE MADE TO THE FIRE HYDRANT LATERAL.
  5. DETAILS SHOW NORMAL FIRE HYDRANT INSTALLATION. ALTERNATE CONSTRUCTION METHODS MAY BE USED SUBJECT TO APPROVAL OF THE FIRE DEPARTMENT.
  6. SEE PUBLIC WORKS STANDARD PLAN NO. 11 FOR FIRE HYDRANT LOCATION.
  7. FINAL INSPECTION BY THE CITY ENGINEER WILL BE REQUIRED PRIOR TO BACKFILL.

**FIRE HYDRANT CONSTRUCTION**

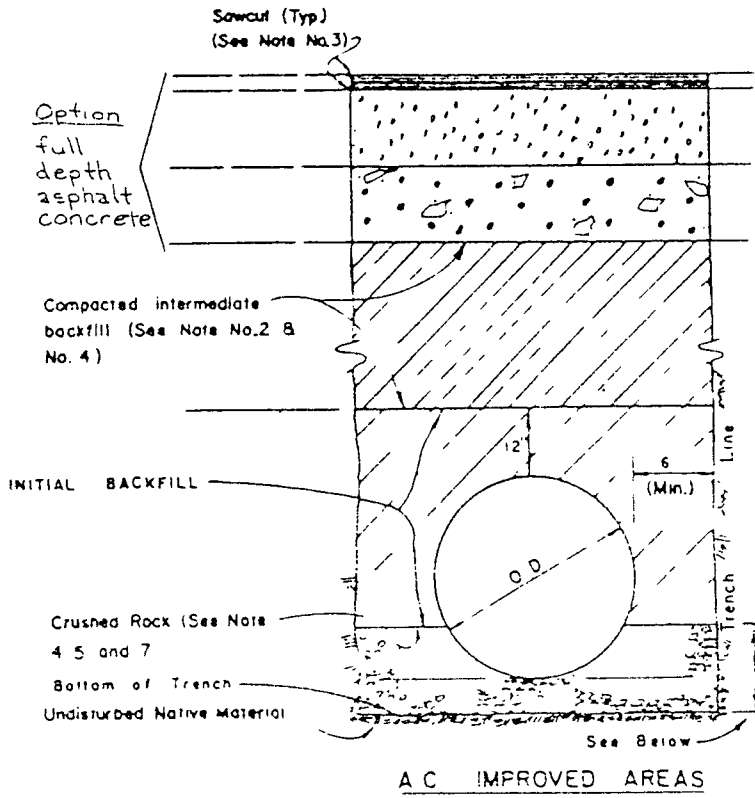
DEPARTMENT OF PUBLIC WORKS CITY OF SOLEDAD, CALIFORNIA

APPROVED DATE 1-8-93

*James M. Burnett*  
CITY ENGINEER

STANDARD DETAIL

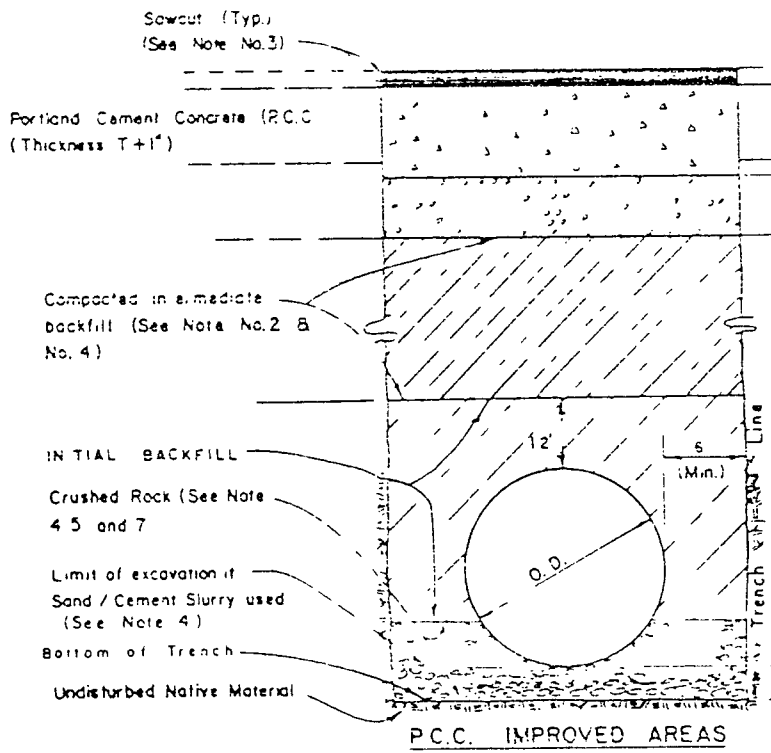
RCE 17,186 (EXPIRES 6-30-93)



Asphalt Concrete (A.C.) (See Note No.1)  
 Class 4 Aggregate Base (See Note No.1)  
 Class 6 Aggregate Subbase (A.S.B.) (See Note No.1)

**NOTES:**

- Structural pavement replacement as follows:
  - On improved streets the thickness of the A.C. AB and A.S.B. shall be equivalent to the existing On A.C. Pavement a minimum of 2" A.C. over 6" A.B. is required.
  - For backfill materials and compaction methods see Section 19.3 of the Standard Specifications. Intermediate backfill shall be compacted to 95% relative compaction in improved areas and 85% relative compaction in unimproved areas.
  - All street cuts shall be neatly sawcut on true line to 1-1/2" minimum depth.
  - Slurry Cement Backfill shall be used as intermediate backfill if ditch is less than 18" wide or in patch areas less than 100 square feet.
  - Crushed Rock Bedding shall conform with aggregate gradations of section 9-3.36C(1) of the standard specifications.
  - Structural Section requirements shall not apply to unimproved areas.



if existing concrete has been overlaid with A.C. replace with equal thickness of A.C. (See Note No. 6)

6 Class 4 Aggregate Base (A.B.)

7 Crushed rock may be replaced with INITIAL backfill material for all pipe installations other than Storm Drain lines and Sanitary Sewer lines provided note 4 does not apply.

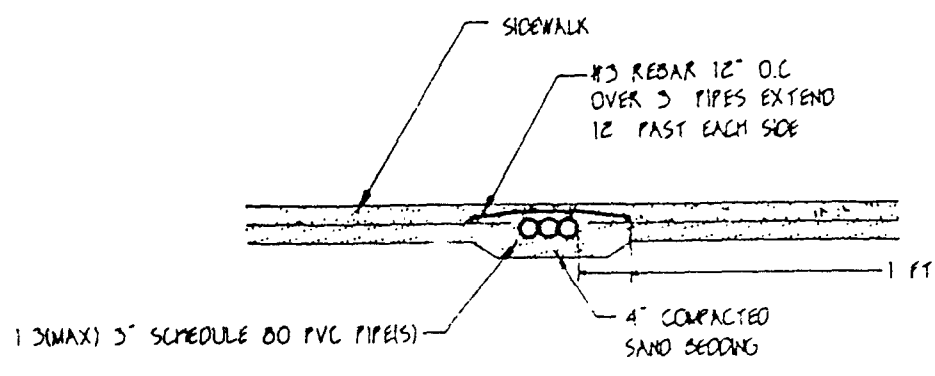
8 Crushed rock or Slurry Cement Backfill will not be required if monolithic concrete pipe is installed.

9 Initial and intermediate backfill materials shall be minimum S.E. = 30

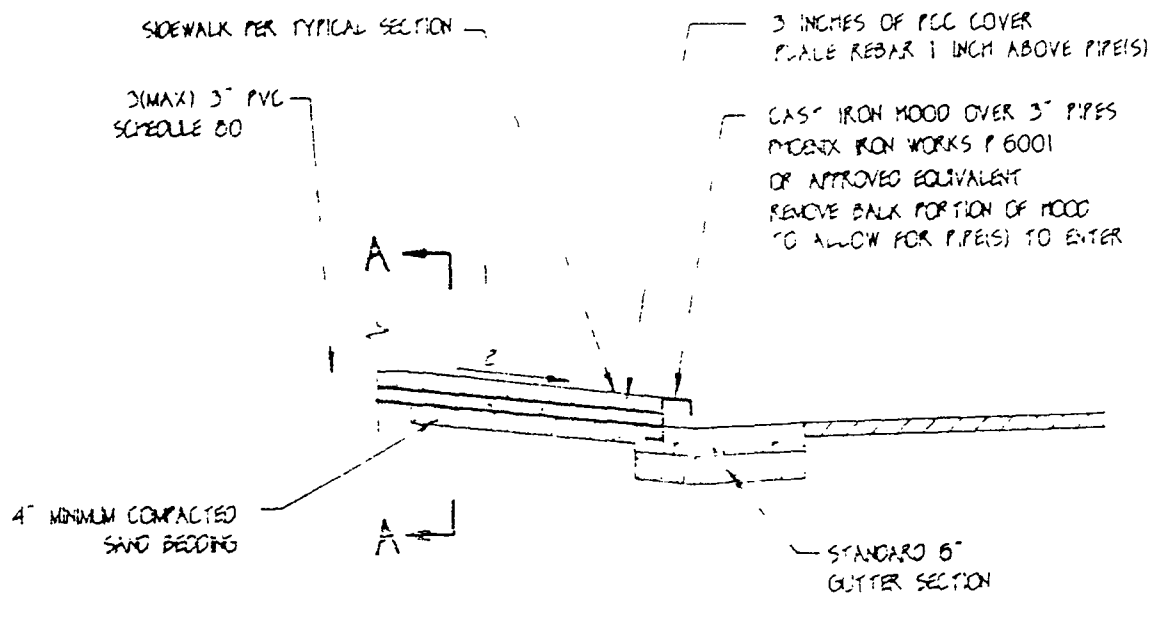
O.D. / 6 (TYPICAL)  
 Varies 4' For O.D. Less Than 34' (TYPICAL)  
 6' For O.D. Greater Than 34' (TYPICAL)

**P.C.C. IMPROVED AREAS**

**TRENCH BACKFILL AND SURFACE RESTORATION**



SECTION A - A



- NOTES-
1. PVC PIPE SHALL BE SCHEDULE 80
  2. EXISTING SIDEWALK FOR DRAIN INSTALLATION SHALL BE REMOVED AND REPLACED TO THE NEAREST JOINT
  3. ALTERNATE DESIGN/MATERIALS REQUIRE WRITTEN APPROVAL FROM CITY ENGINEER
  4. PLACE NO REBAR 12" BEYOND END OF PIPE(S) 1 FT ON CENTER LAYING 1 INCH ABOVE PIPE(S)
  5. PIPE(S) SHALL HAVE 3 INCHES OF P.C.C COVER

**CURB DRAIN**

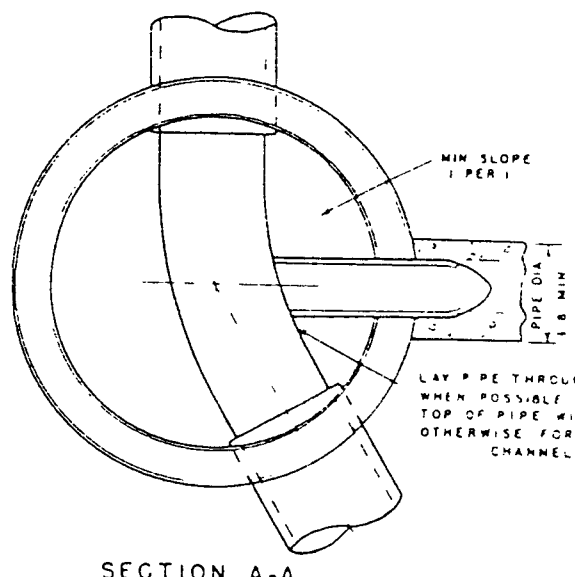
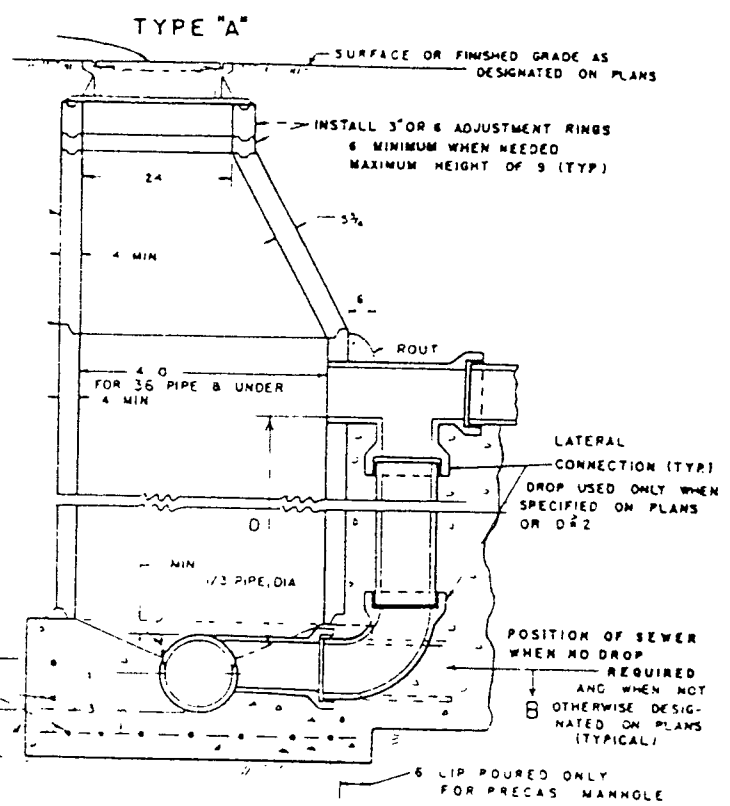
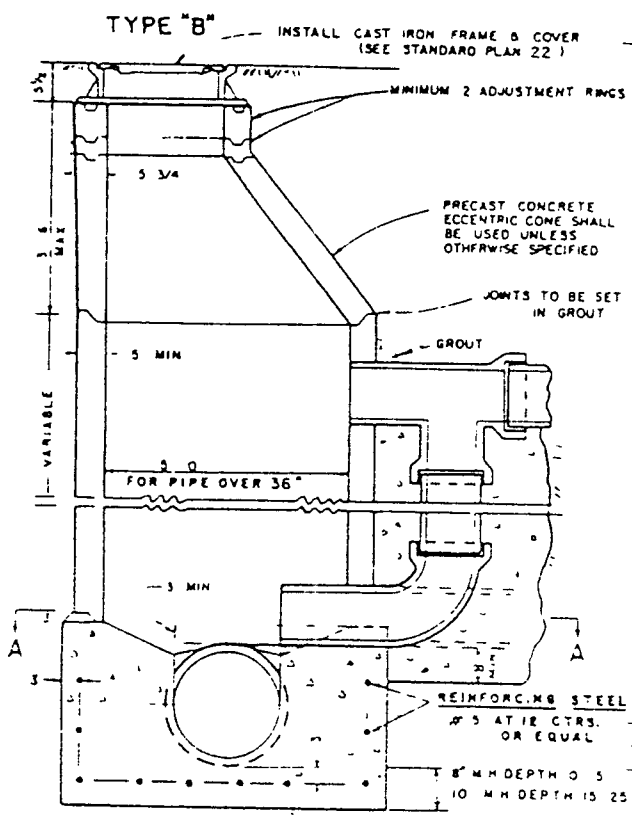
DEPARTMENT OF PUBLIC WORKS CITY OF SOLEDAD, CALIFORNIA

APPROVED DATE 1-8-93

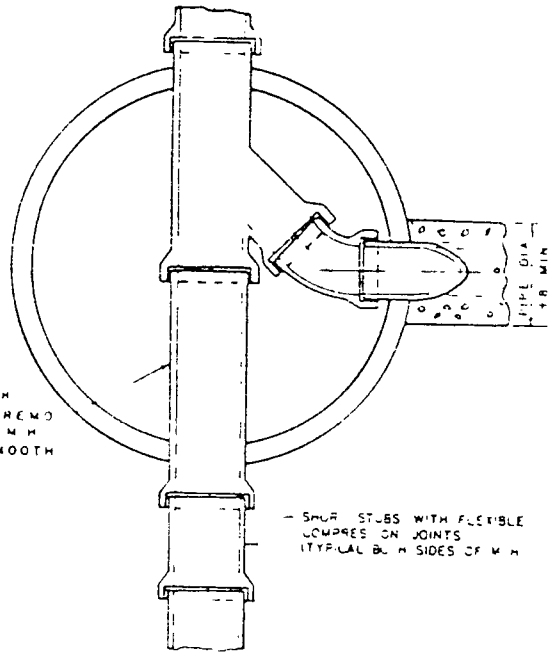
*Andre M. Burnett*  
CITY ENGINEER

RCE 17,186 (EXPIRES 6-30-93)

STANDARD DETAIL



SECTION A-A

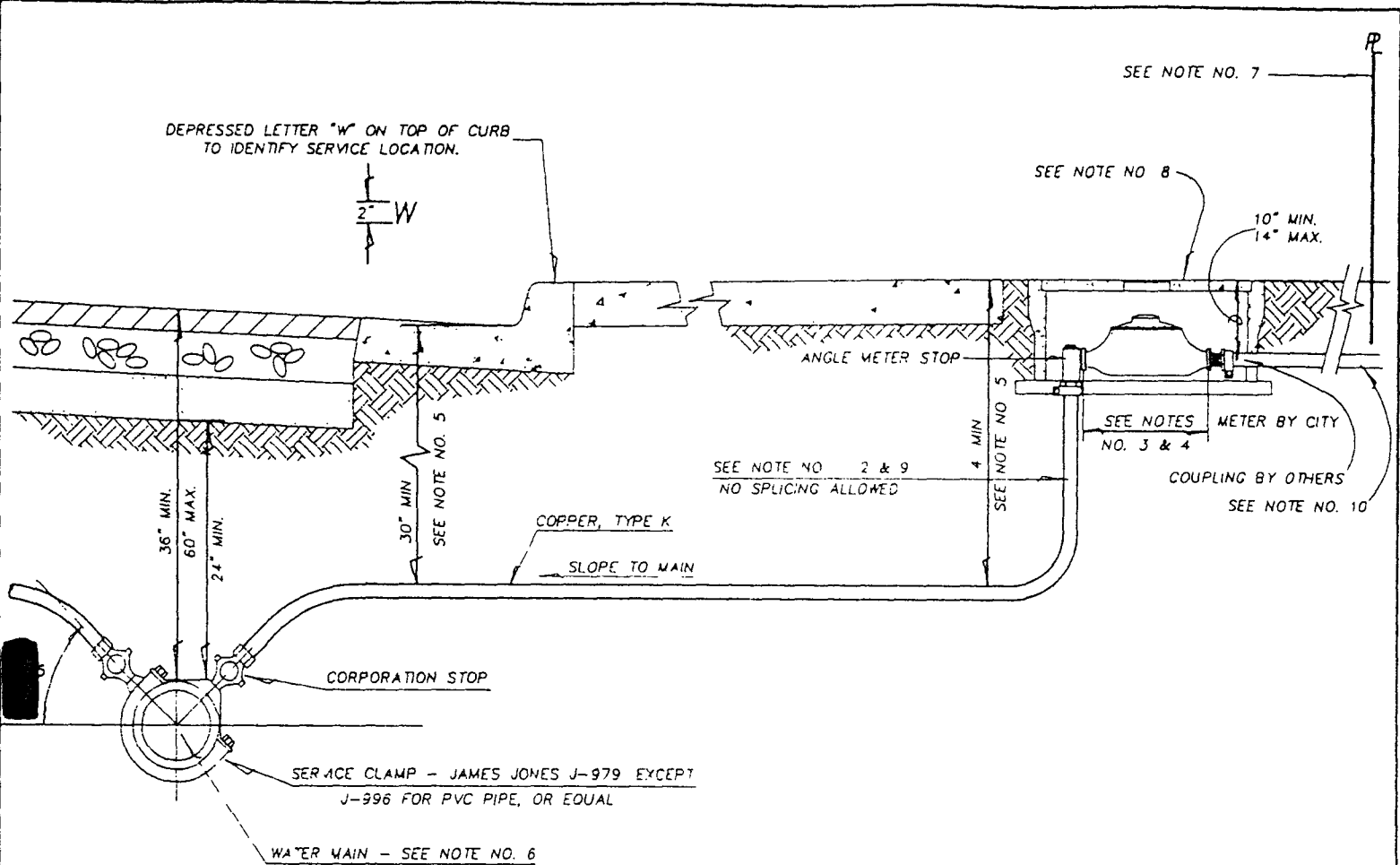


SECTION B-B

NOTES  
 1 P.C.C. SHALL BE CLASS A' CONSTRUCT PER SECTION 51 OF STANDARD SPECIFICATIONS

*Robert J. Burnett*  
 City Engineer RCE 17,186 (expires 6/30/93)

Approved *ALL*  
 Date *1-8-93*



- NOTES
- 1 3/4" OR 1" DIA LINE TO EACH LOT
  - 2 SEE DETAIL NO 28 FOR FITTINGS.
  - 3 METERS SHALL BE FURNISHED AND INSTALLED BY CITY
  - 4 ALLOW 12" MIN CLEARANCE FOR 1" METER AND 14" MAX BURY
  - 5 MAXIMUM 5' DEPTH WHERE GOVERNED BY ADJACENT UNDERGROUND ELECTRIC, GAS, TELEPHONE, OR OTHER UTILITY
  - 6 THE LOCATION OF THE TAP SHALL BE A MINIMUM OF 18" FROM ANOTHER TAP, BELL, SPIGOT, OR OTHER FITTING
  - 7 METER BOX MAY BE PLACED ADJACENT TO PROPERTY OR EASEMENT LINE WITH PRIOR APPROVAL OF THE DIRECTOR OF PUBLIC WORKS
  - 8 USE BROOKS NO 36 BOX AND 36H LID, OR CHRISTY BX9 BOX AND BX9G LID, OR EQUAL.
  - 9 COPPER, TYPE K, SERVICE PIPE TO BE CONTINUOUS (NO JOINTS) BETWEEN MAIN AND METER
  - 10 SERVICE LINES FROM ALL METERS TO PROPERTY LINE SHALL HAVE A MINIMUM OF 10" COVER FROM TOP SIDEWALK OR GROUND LINE

Department of Public Works

City of Soledad, California

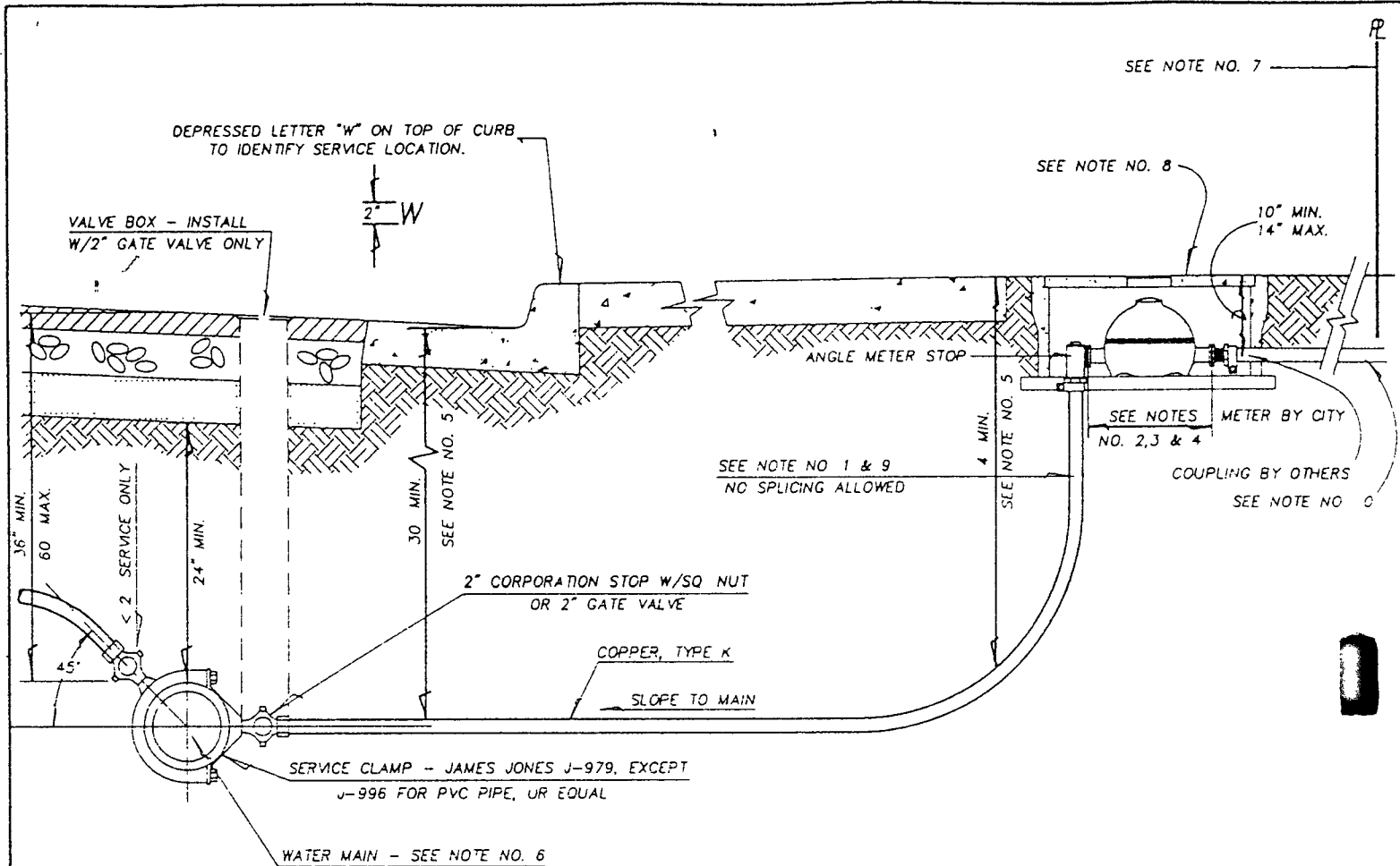
3/4" & 1" WATER SERVICE INSTALLATION

Standard Detail

*Andrés R. Burnett*  
 City Engineer RCE 17,186 (expires 6/30/93)

Approved *ALB*  
 Date 1-8-93

27-A



NOTES

- 1 SEE DETAIL NO 28 OR FITTINGS
- 2 METERS SHALL BE FURNISHED AND INSTALLED BY CITY
- 3 ALLOW 13" MIN CLEARANCE FOR 1-1/2" METER AND 14" MAX BURY
- 4 ALLOW 17" MIN CLEARANCE FOR 2" METER AND 14" MAX BURY
- 5 MAXIMUM 5' DEPTH WHERE GOVERNED BY ADJACENT UNDERGROUND ELECTRIC, GAS, TELEPHONE, OR OTHER UTILITY
- 6 THE LOCATION OF THE TAP SHALL BE A MINIMUM OF 18" FROM ANOTHER TAP, BELL, SPIGOT, OR OTHER FITTING
- 7 METER BOX MAY BE PLACED ADJACENT TO PROPERTY OR EASEMENT LINE WITH PRIOR APPROVAL OF THE DIRECTOR OF PUBLIC WORKS
- 8 USE BROOKS NO 65 BOX AND 65H LID, OR CHRISTY B36 BOX AND B36G LID, OR EQUAL
- 9 COPPER, TYPE K, SERVICE PIPE TO BE CONTINUOUS (NO JOINTS) BETWEEN MAIN AND METER
- 10 SERVICE LINES FROM ALL METERS TO PROPERTY LINE SHALL HAVE A MINIMUM OF 10" COVER FROM TOP SIDEWALK OR GROUND LINE

Department of Public Works City of Soledad, California

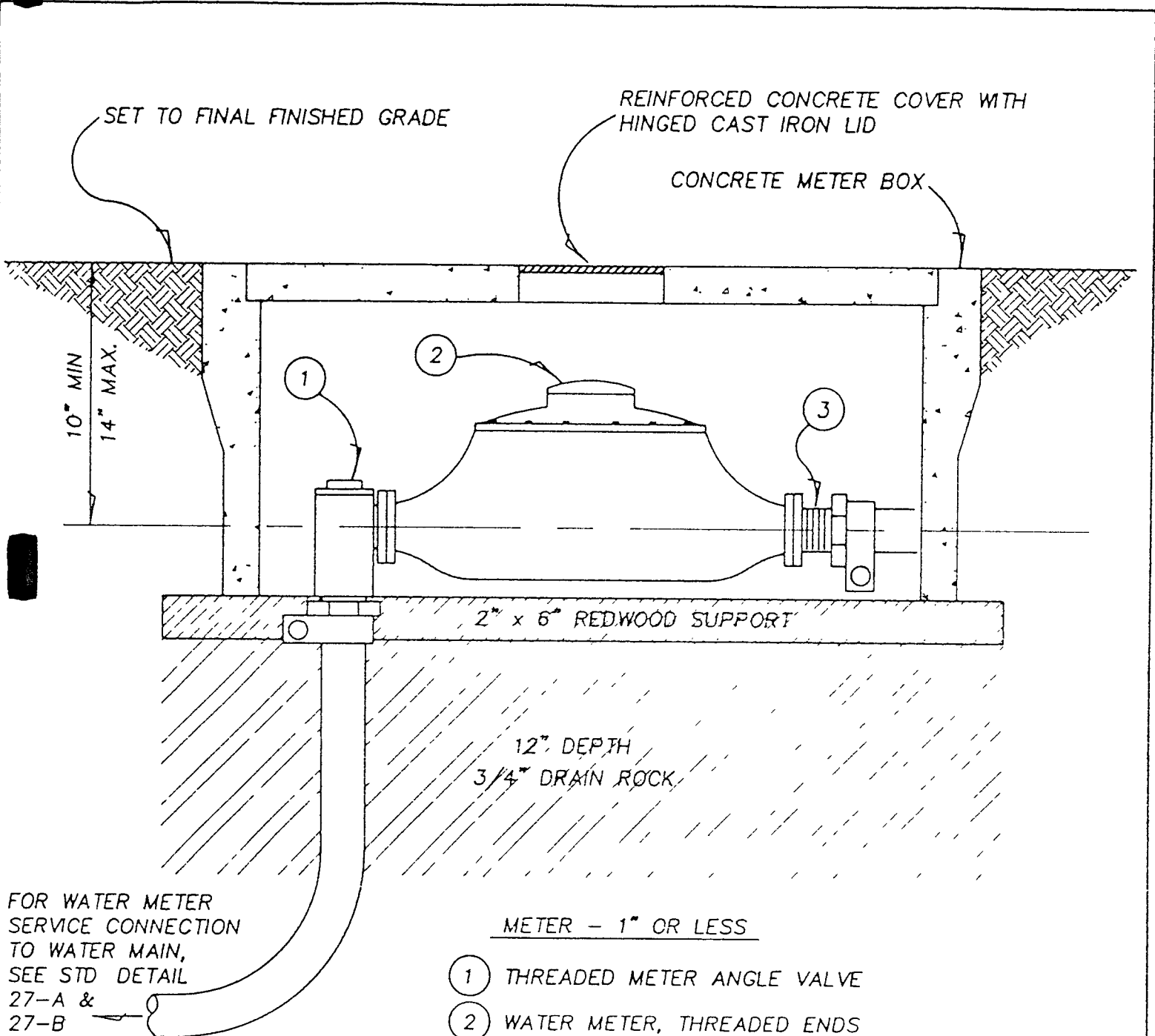
2" WATER SERVICE INSTALLATION

Standard Detail

*[Signature]*  
 City Engineer R C E 17,186 (expires. 6/30/93)

Approved *[Signature]*  
 Date 1-8-93

27-B



FOR WATER METER SERVICE CONNECTION TO WATER MAIN, SEE STD DETAIL 27-A & 27-B

METER - 1" OR LESS

- ① THREADED METER ANGLE VALVE
- ② WATER METER, THREADED ENDS
- ③ THREADED METER COUPLING

METER - 1-1/2" OR LARGER

- ① FLANGED ANGLE METER VALVE.
- ② WATER METER, FLANGED ENDS.
- ③ FLANGED METER COUPLING

Department of Public Works City of Soledad, California

Metered Water Service

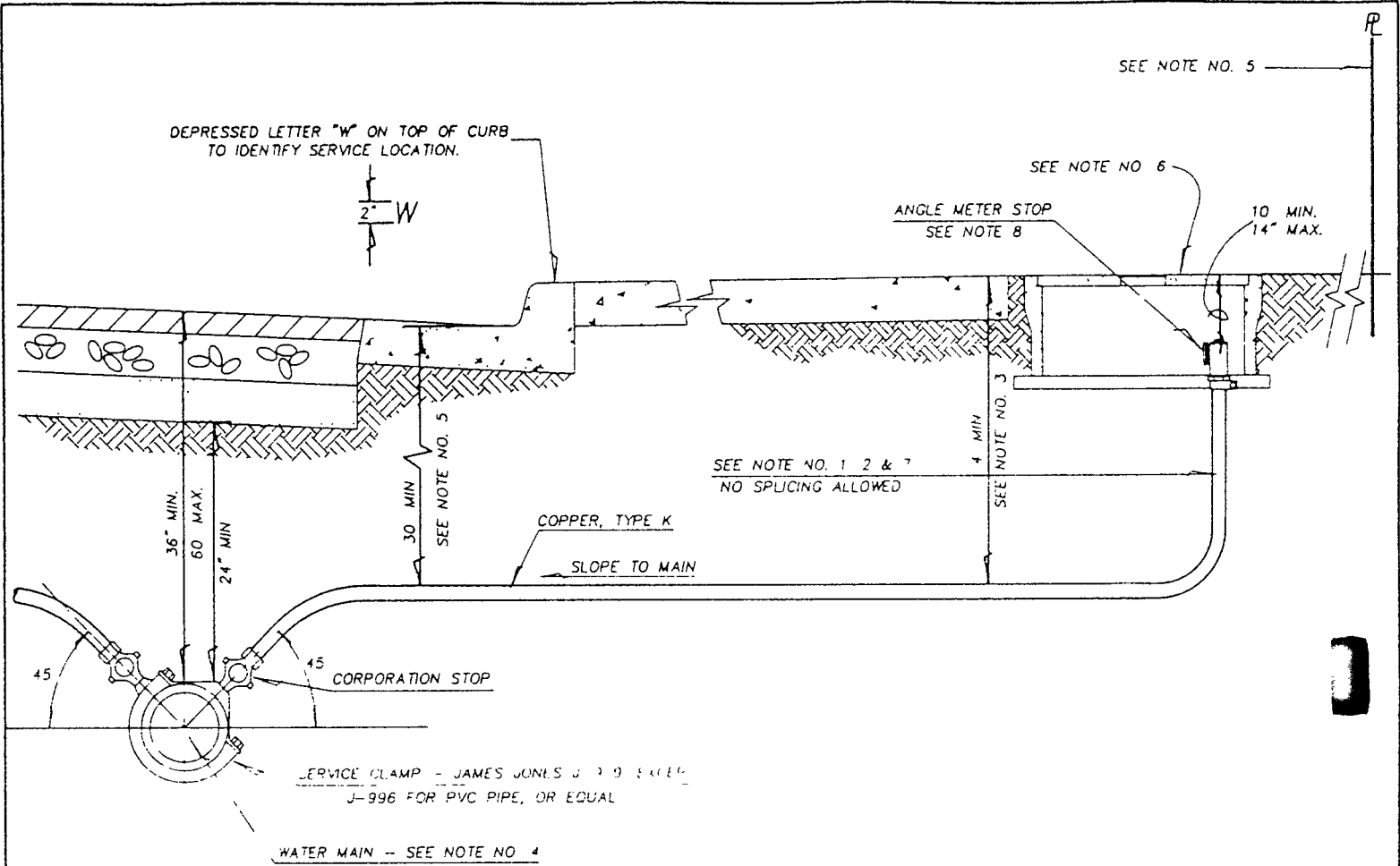
Standard Detail

*Araceli Hernandez*  
 City Engineer R.C.E 17,186 (expires 6/30/93)

Approved *MLB*  
 Date *1-8-93*

27-C

470



NOTES

- 1 1" DIA. LINE
- 2 SEE DETAIL NO 28 FOR FITTINGS
- 3 MAXIMUM 5' DEPTH WHERE GOVERNED BY ADJACENT UNDERGROUND ELECTRIC, GAS, TELEPHONE, OR OTHER UTILITY
- 4 THE LOCATION OF THE TAP SHALL BE A MINIMUM OF 18" FROM ANOTHER TAP, BELL, SPIGOT, OR OTHER FITTING
- 5 METER BOX MAY BE PLACED ADJACENT TO PROPERTY OR EASEMENT LINE WITH PRIOR APPROVAL OF THE DIRECTOR OF PUBLIC WORKS
- 6 USE BROOKS NO 36 BOX AND 36H LID, OR CHRISTY BX9 BOX AND BX9G LID, OR EQUAL
- 7 COPPER, TYPE K, SERVICE PIPE TO BE CONTINUOUS (NO JOINTS) BETWEEN MAIN AND METER
- 8 1" ANGLE (LOCKING) METER STOP SHALL BE MANUFACTURED BY JAMES JONES J-4201 OR FORD KV-43, OR EQUAL

Department of Public Works City of Soledad, California

1" BLOWOFF INSTALLATION

Standard Detail

*Andi K. Burnett*  
City Engineer RCE 17,186 (expires 6/30/93)

Approved *AMB*  
Date *1-8-93*

27-D

NOTE SEE DETAILS NO 'S 27-A, 27-B AND 27-C FOR DETAILS.

UNDERGROUND SERVICE LINES

SERVICE LINE SHALL BE COPPER SERVICE TUBING, TYPE K, PER ANSI/AWWA C800 STANDARD CONNECTION SHALL BE AS FOLLOWS.

1 SERVICE SADDLES

SERVICE SADDLES FOR ALL SIZE MAINS SHALL BE MANUFACTURED BY JAMES JONES J-979 OR FORD 202B, OR EQUAL (I.P. THREAD)

2 CORPORATION STOPS

- A. 3/4" AND 1" DIAMETER CORPORATION STOPS SHALL BE AS MANUFACTURED BE JAMES JONES J-3403 OR FORD F1100, OR EQUAL.
- B 1-1/2" DIAMETER CORPORATION STOPS SHALL BE AS MANUFACTURED BY JAMES JONES J-1935 OR FORD FB1100, OR EQUAL.
- C 2" CORPORATION STOPS SHALL BE AS MANUFACTURED BY JAMES JONES J-1935 OR FORD FB1100, OR EQUAL, WITH A SQUARE OPERATING NUT OR ALTERNATIVE 2" GATE VALVES WITH SQUARE NUT MAY BE USED WITH APPROVAL BY THE PUBLIC WORKS DIRECTOR

3 ANGLE METER STOPS

- A 3/4" AND 1" ANGLE METER STOPS SHALL BE AS MANUFACTURED BY JAMES JONES J-4201 OR FORD KV-43, OR EQUAL.
- B 1-1/2" AND 2" ANGLE METER STOPS SHALL BE AS MANUFACTURED BY JAMES JONES J-4205 OR FORD FV-23, OR EQUAL.


4 WATER METER BOXES

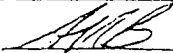
- A 3/4" AND 1" METER BOXES SHALL BE CHRISTY BX9 BOX WITH BX9G LID, OR BROOKS 36 BOX WITH 36H LID, OR EQUAL
- B 1-1/2" AND 2" METER BOXES SHALL BE CHRISTY B36 BOX WITH B36G LID, OR BROOKS 65 BOX WITH 65H LID, OR EQUAL
- C DOUBLE SERVICES SHALL BE SET IN SEPARATE METER BOXES PER A & B ABOVE

Department of Public Works

City of Soledad, California

Standard Detail

  
City Engineer R.C.E 17,186 (expires. 6/30/93)

Approved   
Date 1-8-93

28

Required Bearing Area - Total Square Feet

Type of Fitting	90° Bend	45° Bend	11 1/4° or 22 1/2° Bend	Tee or Dead End	Tee w/Plug
Typical Installation					
Size of Pipe	4"	2	1	2	2
	6"	4	2	3	4
	8"	7	4	5	7
	10"	12	6	8	12
	12"	16	10	12	16

Required Bearing Area - Total Square Feet

Type of Fitting	Cross w/Plug	Cross w/Plugs
Typical Installation		
Size of Pipe	4"	2
	6"	4
	8"	7
	10"	12
	12"	16

NOTES

- 1 Thrust blocks to be constructed of class "B" concrete
- 2 Areas given are for Class 150 pipe at test pressure of 150 p s i in soil with 2,000 p s f bearing capacity  
Installations using different pipe, test pressures, and/or soil types should adjust areas accordingly, subject to approval of engineer
- 3 Blocks to be poured against undisturbed soil
- 4 Joints and face of plugs to be kept clear of concrete

Department of Public Works

City of Soledad, California

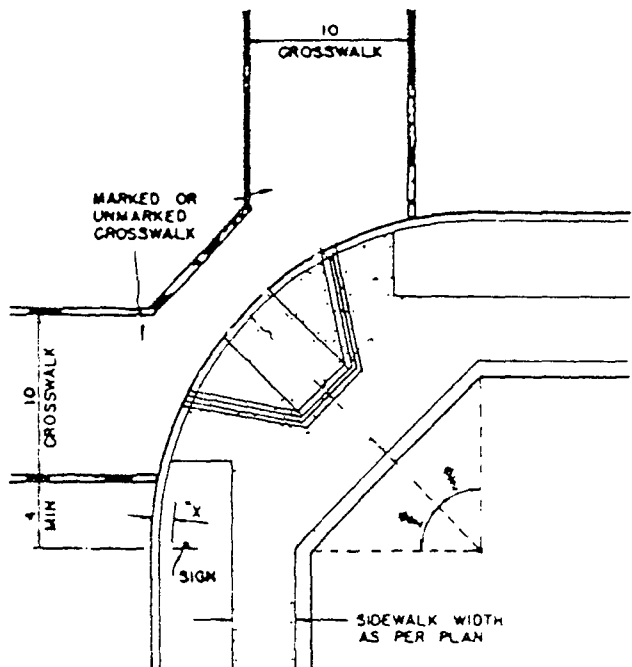
Thrust Block Bearing Area

Standard Detail

City Engineer R C E 17,186 (expires 6/30/93)

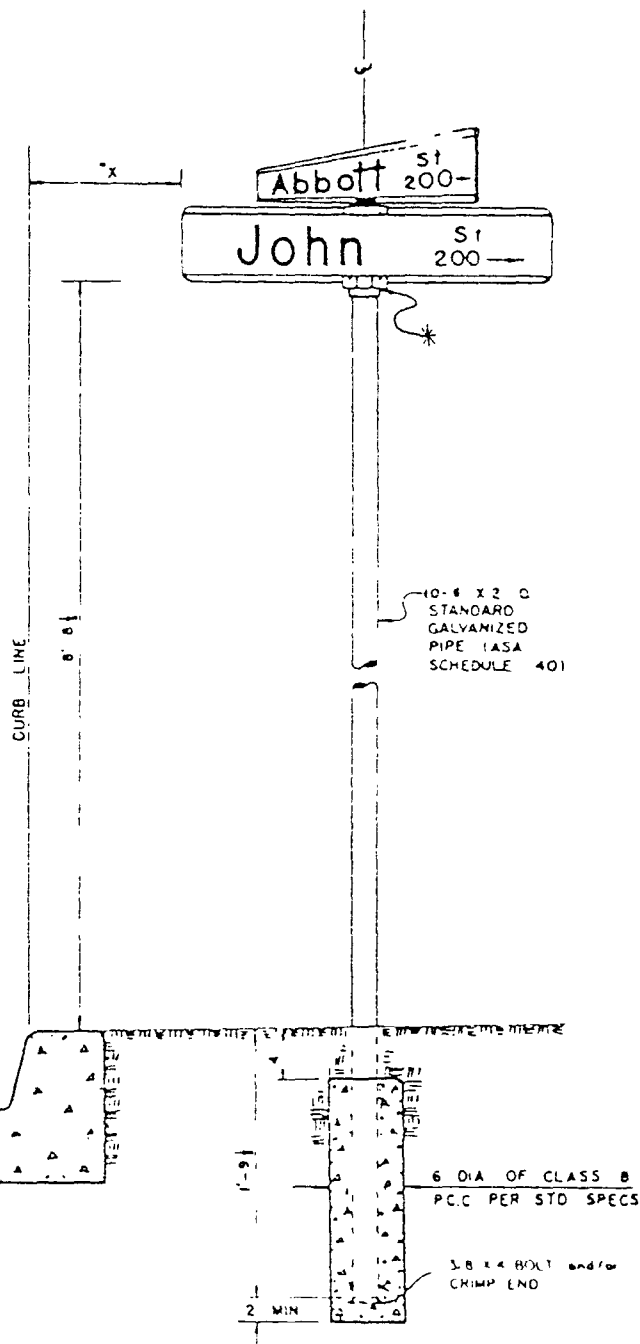
Approved   
Date 1-8-93

29-A



NOTES

- 1 STREET NAME SIGNS SHALL BE EXTRUDED ALUMINUM BLADE
- 2 SIGN FINISH SHALL BE ENGINEER GRADE INTERSTATE GREEN BACKGROUND WITH WHITE LETTERS.
- 3 STREET BLOCK NUMBER AS SPECIFIED ON PLANS OR PROVIDED BY CITY ENGINEER
- 4 DIMENSION "X" SHALL BE SUCH THAT THE MINIMUM CLEARANCE BETWEEN CURB LINE AND THE FURTHEST PROTRUSION OF THE SIGNS TOWARD THE STREET SHALL BE NOT LESS THAN 12 INCHES.
- 5 STREET NAME LETTERS SHALL BE 4" UPPER CASE 3" LOWER CASE ABBREVIATIONS SHALL BE 2" UPPER CASE 1 1/2" LOWER CASE
- 6 THE ARROW SHALL POINT IN THE DIRECTION OF INCREASING NUMBERS



SECTION

\* CHECK WITH PLANNING DIRECTOR FOR CORRECT STREET NAME AND WITH PUBLIC WORKS DIRECTOR FOR MANUFACTURER OF CITY STD STREET SIGN

Department of Public Works

City of Soledad, California

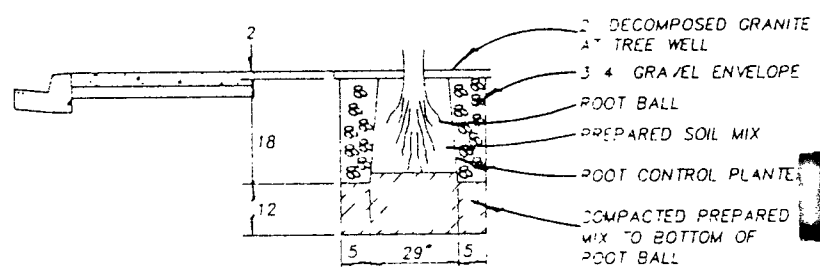
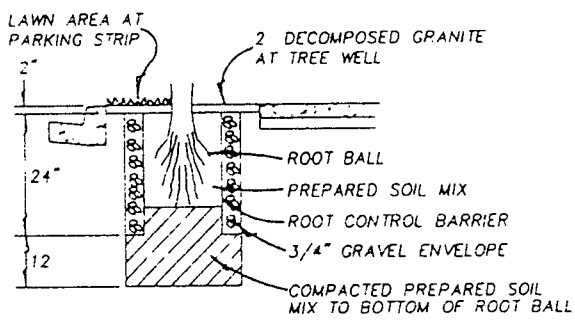
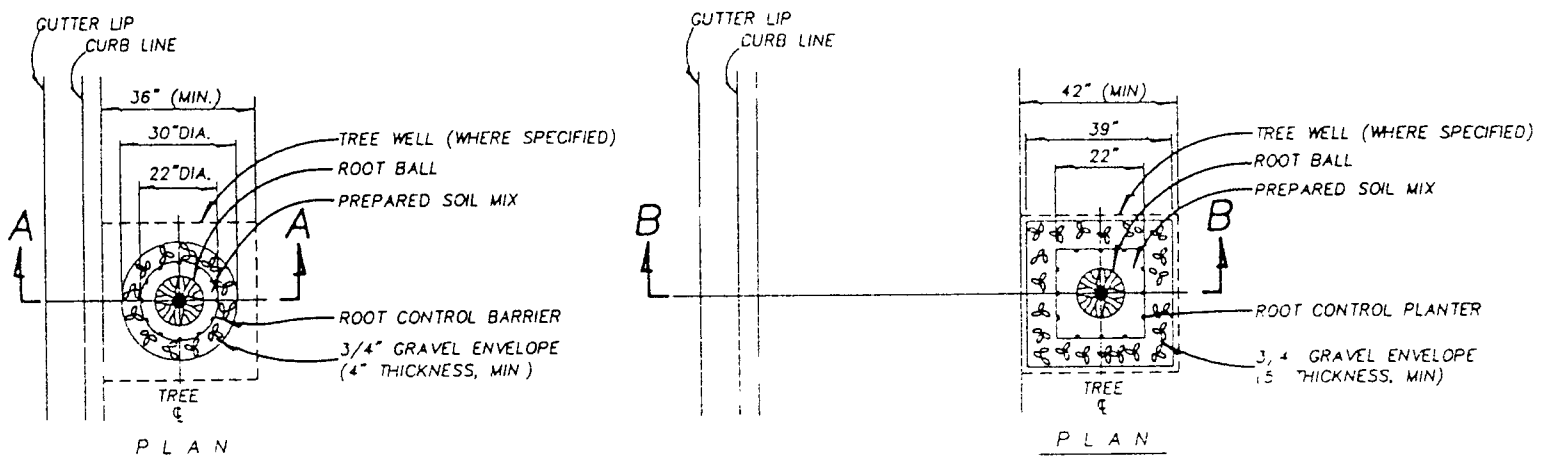
Street Name Signs

Standard Detail

*[Signature]*  
 City Engineer R.C.E. 17,186 (expires 6/30/93)

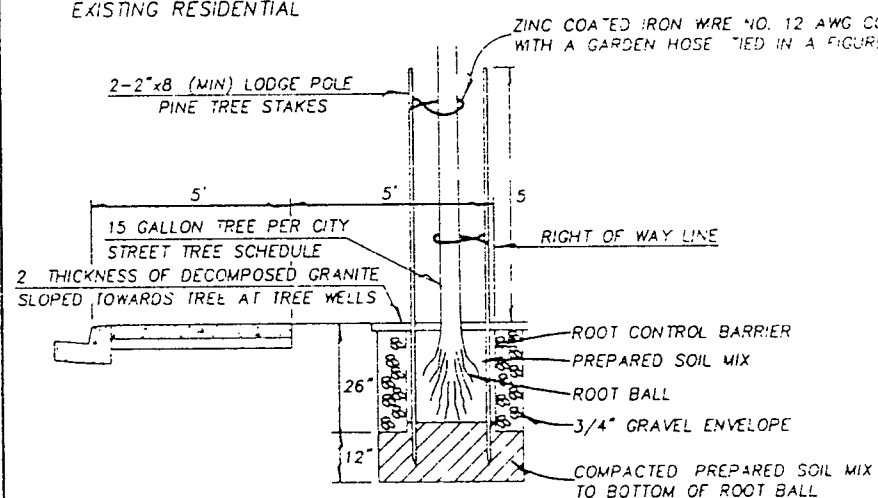
Approved *[Signature]*  
 Date 1-9-93

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SECTION A - A  
EXISTING RESIDENTIAL

SECTION B - B  
NEW RESIDENTIAL-INDUSTRIAL-COMMERCIAL



STAKING DETAIL

NOTE: CONTACT PLANNING DIRECTOR FOR A LIST OF TREES THAT MAY BE PLANTED IN THE PUBLIC RIGHT OF WAY AS PER SECTION 2.20 OF THE SOLEDAD MUNICIPAL CODE AND APPROVED STANDARD SPECIFICATION FOR PUBLIC IMPROVEMENTS.

PLANTING NOTES.

- 1 PREPARED SOIL MIX SHALL CONSIST OF 1/4 NITROHUMUS, 1/4 SHAVINGS, 1/2 EXISTING SOIL AND 20-10-5 FORMULA FERTILIZER TABLETS WEIGHING 21 GRAMS ( 3 TABLETS PER 15 GALLON (CONTAINER SIZE) TREE ).
- 2 ROOT DEFLECTOR SHALL BE DEEP ROOT STANDARD DEFLECTOR NO. 22-29-18-P DEEP ROOT CONTROL BARRIER NO. UB24-2, OR APPROVED EQUAL. DEEP ROOT CONTROL PRODUCTS ARE AVAILABLE FROM EWING IRRIGATION PRODUCTS, 125 LEE ROAD WATSONVILLE CA. 95076
- 3 THE LOWER 12" OF THE EXCAVATION SHALL BE BACKFILLED AND COMPACTED WITH PREPARED SOIL MIX PRIOR TO PLACING THE ROOT DEFLECTOR. BACKFILL 3/4" GRAVEL ENVELOPE AROUND DEFLECTOR AFTER TREE PLANTING.
- 4 PREPARED SOIL MIX SHALL BE PLACED IN THE PLANTING HOLE AND COMPACTED TO BOTTOM OF ROOT BALL ELEVATION. PLANT TREE IN PLANTER, BACKFILL WITH PREPARED SOIL MIX AND COMPACT COVER WITH LAWN OR DECOMPOSED GRANITE, AS SPECIFIED.
- 5 AFTER PLANTING, TREE SHALL BE WATERED WITH 20 GALLONS OF WATER. REPEAT WATERING TWICE IN THE NEXT 7 DAYS, NOT CLOSER THAN AT 48 HOURS INTERVALS.
- 6 STREET TREE PLANTING SHALL INCLUDE TREE PLANTING IN TREE WELLS OR WITHIN PARKING STRIPS. PAYMENT FOR TREE PLANTING SHALL INCLUDE EXCAVATION, SOIL PREPARATION, ROOT DEFLECTOR AND INSTALLATION, BACKFILL, TREE, AND THE ITEMS DESCRIBED ON THIS PLAN.
- 7 UPON APPROVAL OF THE CITY ENGINEER, ROOT DEFLECTOR MAY BE DELETED DUE TO SPECIAL CIRCUMSTANCES WHICH MAKE THE DEFLECTOR UNUSABLE OR UNNECESSARY.

Department of Public Works City of Soledad, California

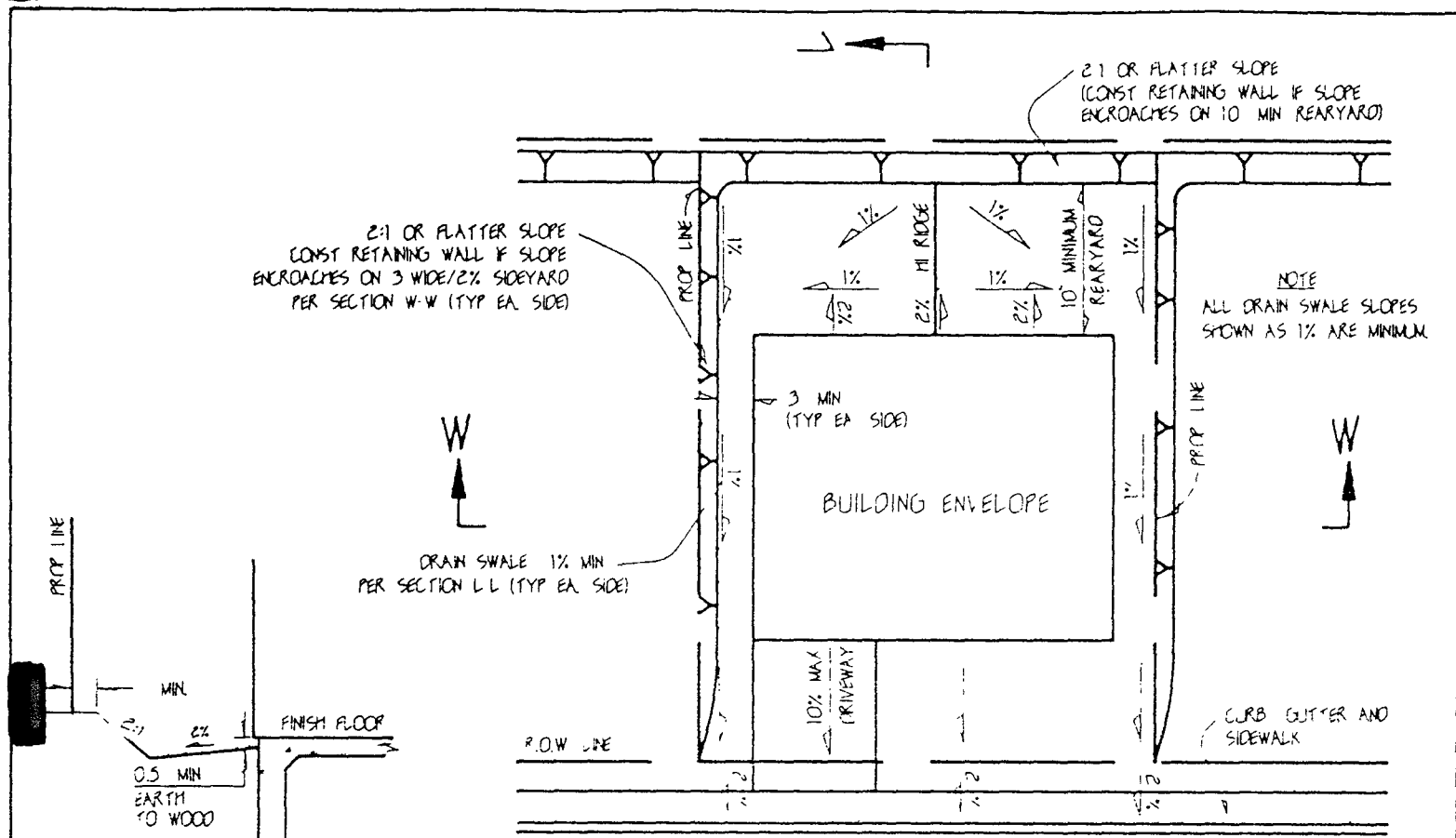
STREET TREE PLANTING

Standard Detail

City Engineer *[Signature]* RCE 17,186 (expires 6/30/93)

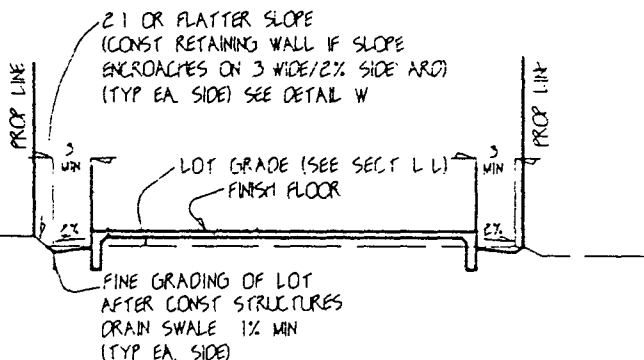
Approved *[Signature]*  
Date 1-8-93

46

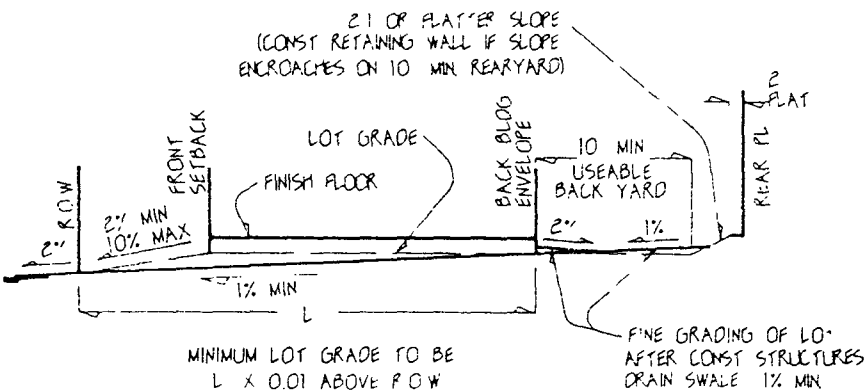


DETAIL W

TYPICAL FINE GRADING PLAN



TYPICAL SECTION W - W



TYPICAL SECTION L - L

NOTE

- 1. ACTUAL FOUNDATIONS OF STRUCTURES ARE KNOWN AND
- 2. 1% MINIMUM DRAINAGE SWALES CAN BE SHOWN AND
- 3. CITY (OR COUNTY IF NOT IN CITY) ENGINEER AND DESIGN ENGINEER APPROVE

Department of Public Works

City of Soledad, California

Typical Lot Grading

Standard Detail

*[Signature]*  
 City Engineer R.C.E. 17,186 (expires 6/30/93)

Approved *[Signature]*  
 Date 1-8-93

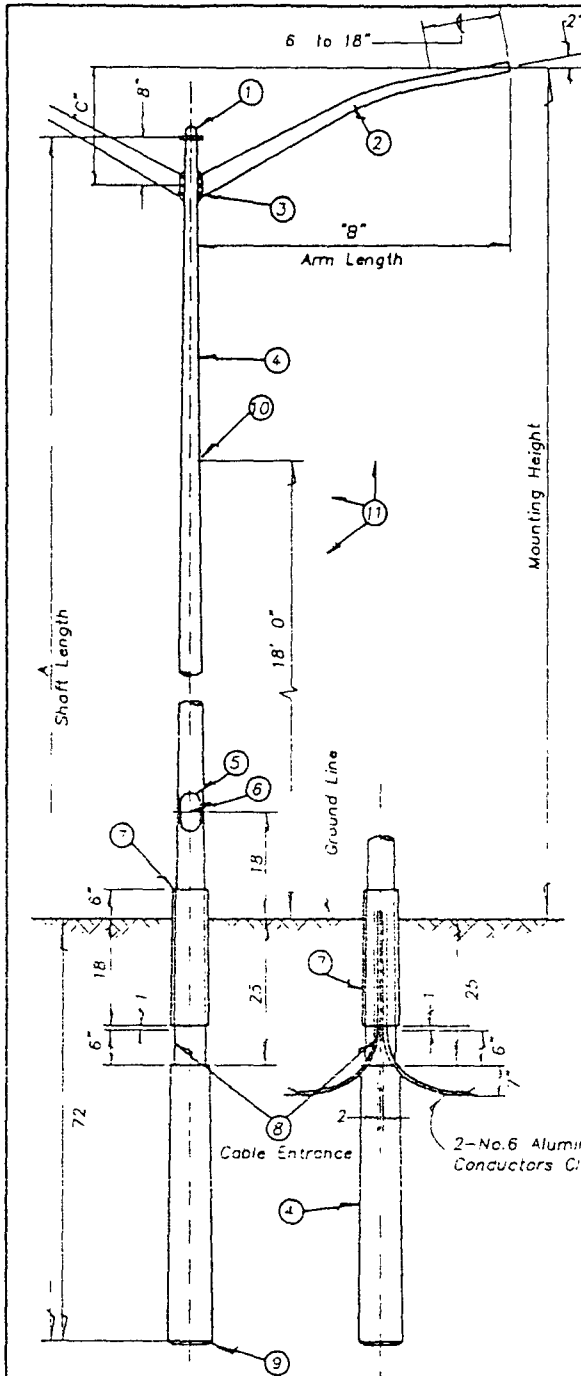


FIG 1  
FIG. 1A  
CABLE ENTRANCE  
DETAIL

Typical Installation for LS-1C schedule with High Pressure Sodium Vapor Lamps

Pole shall be "A" = 37'-0" with "B" = 8'-0" unless otherwise noted.

DEPARTMENT OF ENGINEERING  
PACIFIC GAS AND ELECTRIC COMPANY  
SAN FRANCISCO CALIFORNIA

EMBEDDED STEEL POLES

"A" Shaft Length	Pole Diameter		"B" Arm Length	"C" Rise	CODE		Mounting Height
	At Top	At Bottom			Single Arm	Double Arm	
32'-6"	3.6" to 3.8"	8.1" to 8.4"	4'-0"	1'-6"	35-7231		27'-6"
			6'-0"	2'-0"	35-7232	35-7236	28'-6"
			8'-0"	2'-0"	35-7274	35-7273	28'-6"
37'-0"	3.6" to 3.8"	8.7" to 9.0"	6'-0"	2'-0"	35-7233	35-7237	32'-6"
			8'-0"	2'-0"	35-7234	35-7238	
39'-6"	3.3" to 3.9"	8.8" to 9.5"	6'-0"	2'-0"	35-7235	35-7239	35'-6"
			8'-0"	2'-0"		35-7240	

Pole and Arm to be per PG&E Standards

General Specifications

- 1 Cast Iron or Steel Cap Furnish with set screws.
- 2 Arm 11 gauge (or better) steel and make with a yield strength of at least 33,000 psi. Cylindrical with a taper of 0.14 inch per foot, O.D. at the small end is 2.37 inches. "Ovalize" the large end so the cross-section becomes about 2-1/2" in the horizontal dimension
- 3 Simplex Attachments: Make them as described by Sheet 9
- 4 Pole 11 gauge (or better) steel with a yield strength of at least 33,000 psi. Cylindrical with a taper of about 0.14 inch per foot.
- 5 Handhole. 4" x 6-1/2" and weld a reinforcing frame around it. Furnish a cover and mounting hardware
- 6 Weldnut. Weld a 1/2" square grounding nut or nut holder inside the pole, directly opposite the handhole. For alternate location, see Detail "A", Sheet 7
- 7 Ground-line Sleeve. Use 11 gauge (or better) steel and continuously seal-weld it (top and bottom) to the pole.
- 8 Cable Entrance. Make oval slot 2" x 6" and 180 with luminaire bracket. (See Fig. 1 and 1A.)
- 9 Butt Plate. Cut it from plate or angle steel 1/4" thick and 4" to 6" wide and 12" long. Attach it to the bottom of the pole with continuous seal-welds at both ends.
- 10 Festoon Outlet. For ordering information, see Sheet 10.
- 11 Finish. Coat all parts:
  - Galvanize the arm(s) per ASTM A123 after forming and welding.
  - Galvanize all removable parts per ASTM 153
  - Galvanize the pole per ASTM A123 after the holes are cut in it and the sleeve, weldnut(holder) arm fixture(s) and butt plate are welded to it
- Shipping Instructions. Ship the loose parts for one pole in one package.
- 12 Bottom of pole holes shall always be well tamped before installing pole. Judgement, based on experience and local soil conditions, should be used to determine if "keying" and "rocking-in" the steel pole are required.
- 13 For CIC installations, pull conduits to handhole. For DB cable installations, use salvaged lengths of CIC conduits of sufficient length to provide cable protection
- 14 Developer installs pole, arm, wire from head to hand hole and backfill for City.

PG & E Drawing No  
015136 change 13

Department of Public Works

City of Soledad, California

Street Lighting Poles (embedded steel poles)

Standard Detail

City Engineer *[Signature]* RCE 17,186 (expires 6/30/93)

Approved *[Signature]*  
Date. 1-8-93

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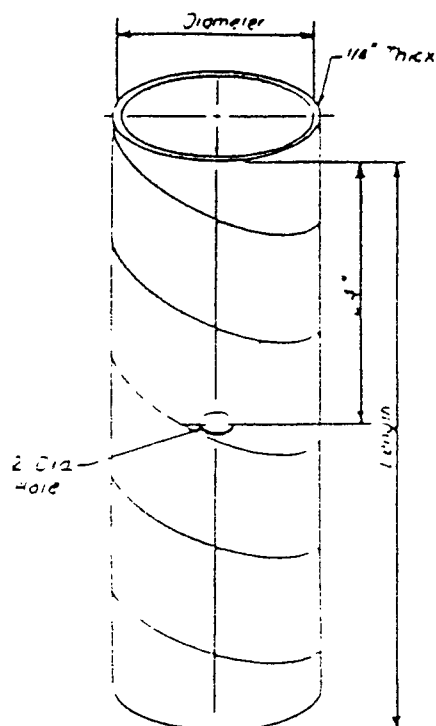


FIG 3

TABLE 1. PROTECTIVE TUBES FOR USE WITH METAL LAMP

TUB. NO.	DIMENSIONS IN		MANUFACT. REF. AND CATALOG NO.	CODE
	DIAMETER	LENGTH		
3	12	48	Armstrong Products Co.	M-342
	24			M-448
	30			M-448

ADD. DATA

These tubes are to be used in those instances where future installation of poles are to be insulators and should be placed in the ground at the proposed pole location. When it is necessary to dig the hole, place the tube in the ground at the proposed pole location. When it is necessary to dig the hole, place the tube in the ground at the proposed pole location. When it is necessary to dig the hole, place the tube in the ground at the proposed pole location.

The street light conductor should be installed on the outside of the tube and on the same side as the entrance hole. The hole is located 24" below the top edge.

NOTE: PG&E INSTALLS \* BILLS DEVELOPER

PROTECTIVE TUBES

STREET LIGHTING POLES

DEPARTMENT OF ENGINEERING  
 PACIFIC GAS AND ELECTRIC COMPANY  
 SAN FRANCISCO CALIFORNIA

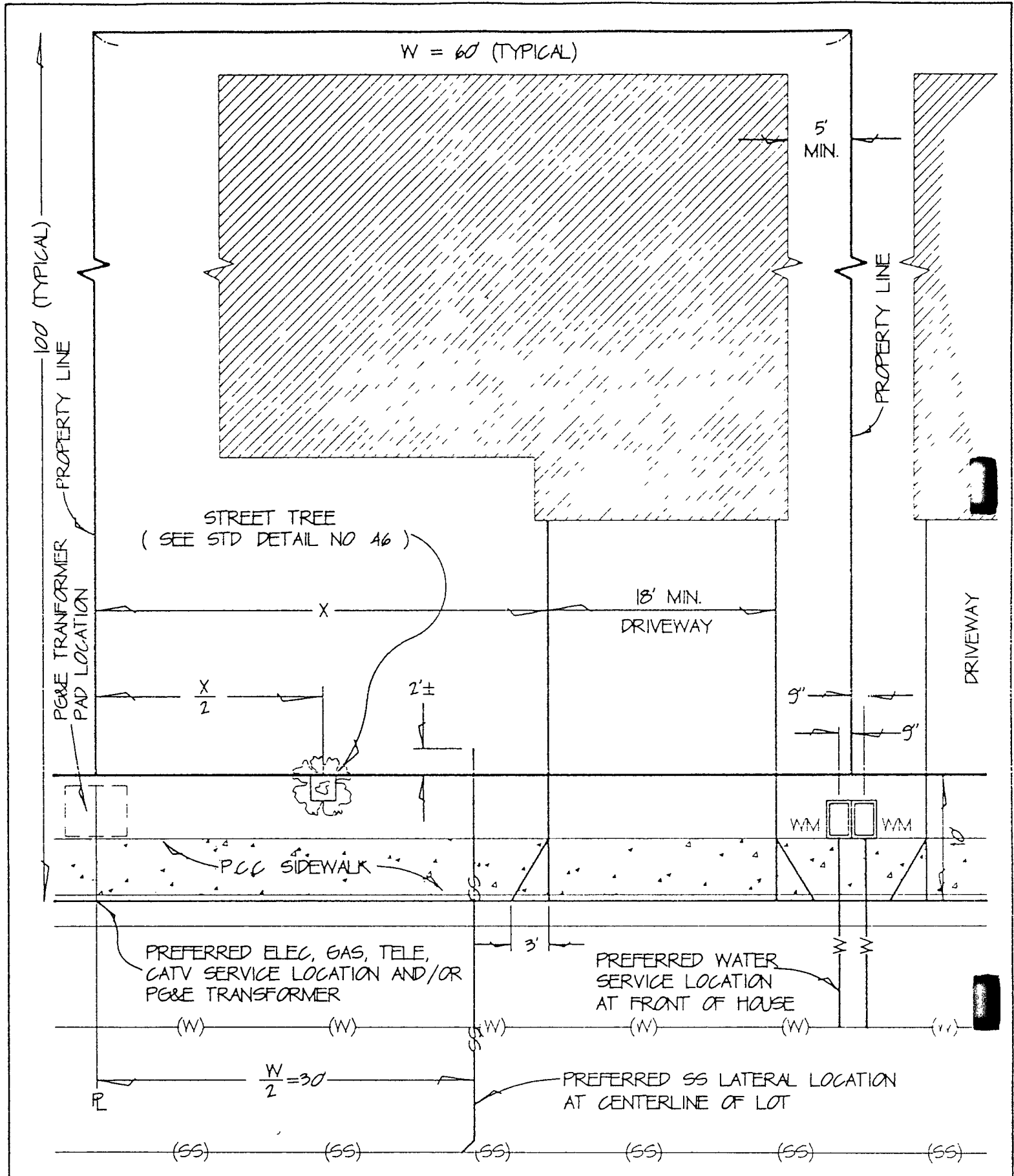
PG&E	
DRAWING NUMBER	REV.
015136	16

DEPARTMENT OF PUBLIC WORKS CITY OF SOLEDAD, CALIFORNIA

APPROVED  
  
 CITY ENGINEER

DATE 1-8-93  
 RCE 17,186 (EXPIRES 6-30-93)

STANDARD DETAIL  
 50



Department of Public Works

City of Soledad, California

UTILITY LOCATIONS ( TYPICAL )

Standard Detail

*Richard R. Burnett*  
 City Engineer RCE 17,186 (expires. 6/30/93)

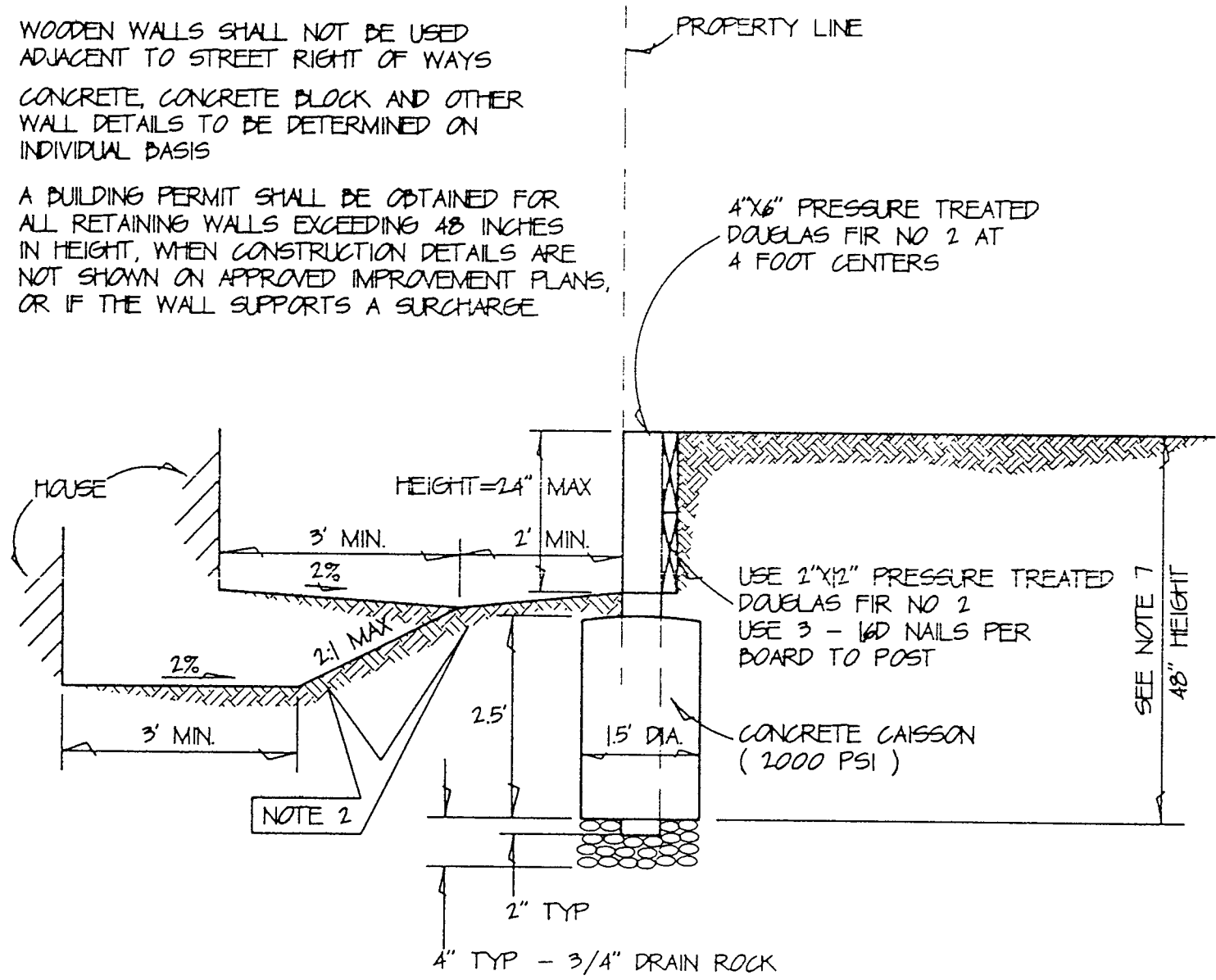
Approved *AR*  
 Date *1-8-93*

51

NOTES

- 1. STRUCTURAL CALCULATIONS SHALL BE REQUIRED IF FENCE IS ATTACHED TO WOOD RETAINING WALL AND SHALL BE SIGNED BY REGISTERED CIVIL ENGINEER
- 2. ALL SOIL SURROUNDING POSTS SHALL BE NATIVE SOIL, COMPACTED ENGINEERING FILL OR AS SPECIFIED BY GEOTECHNICAL ENGINEER
- 3. ALL WOOD MATERIALS SHALL BE TAGGED BY CERTIFIED INSPECTION AGENCY CITY INSPECTOR SHALL REMOVE TAG
- 4. ALL WOODEN MATERIALS SHALL BE GRADE NO 2 OR BETTER WITH NO OPEN GRAIN MATERIAL ALLOWED AND SHALL MEET THE REQUIREMENTS OF AWPB STANDARD LP - 2240 FOR GROUND CONTACT
- 5. WOODEN WALLS SHALL NOT BE USED ADJACENT TO STREET RIGHT OF WAYS
- 6. CONCRETE, CONCRETE BLOCK AND OTHER WALL DETAILS TO BE DETERMINED ON INDIVIDUAL BASIS

A BUILDING PERMIT SHALL BE OBTAINED FOR ALL RETAINING WALLS EXCEEDING 48 INCHES IN HEIGHT, WHEN CONSTRUCTION DETAILS ARE NOT SHOWN ON APPROVED IMPROVEMENT PLANS, OR IF THE WALL SUPPORTS A SURCHARGE



DATED: 9-23-92

Department of Public Works

City of Soledad, California

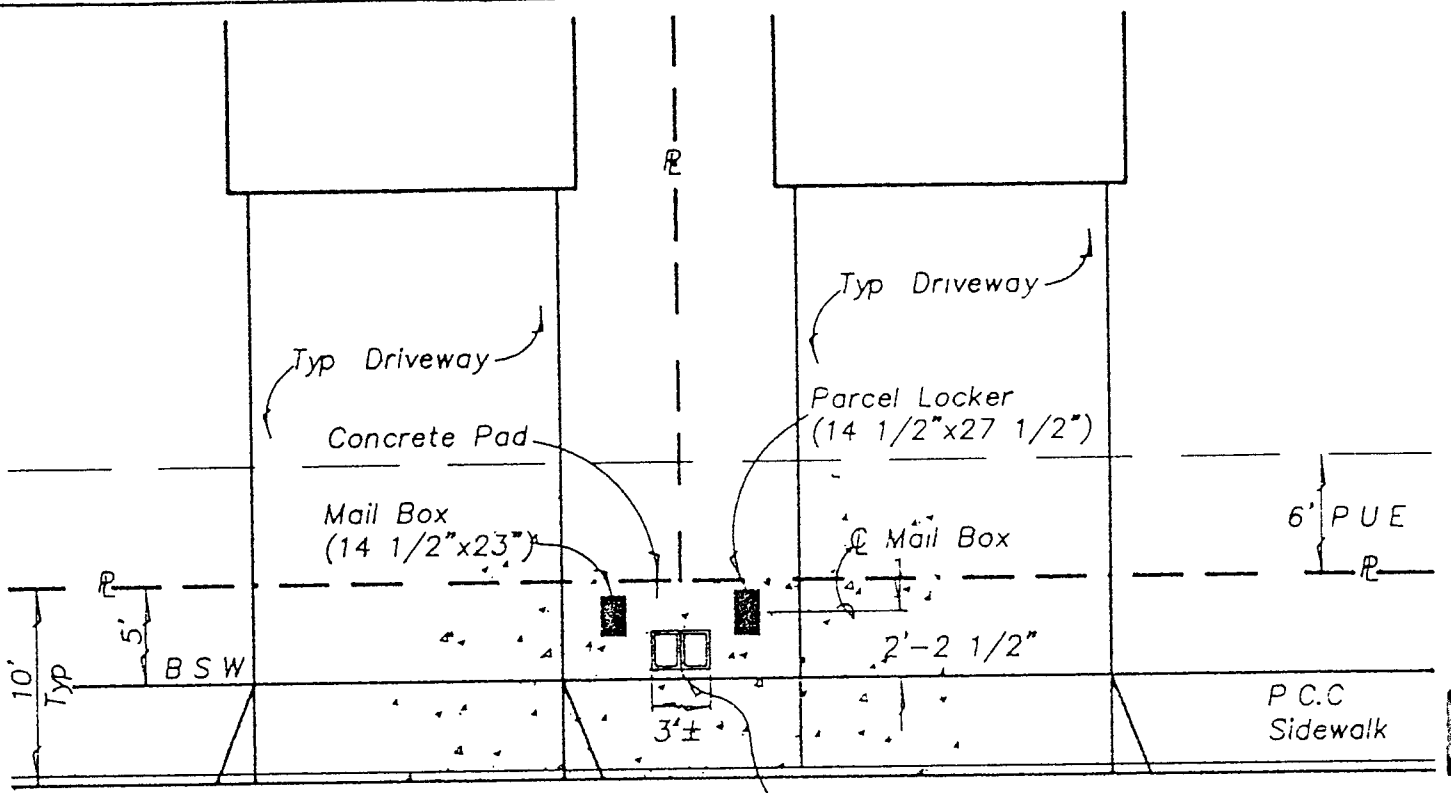
WOOD RETAINING WALL ( 24" MAX. )

Standard Detail

*Arnold H. Burnett*  
 City Engineer R.C.E. 17,186 (expires: 6/30/93)

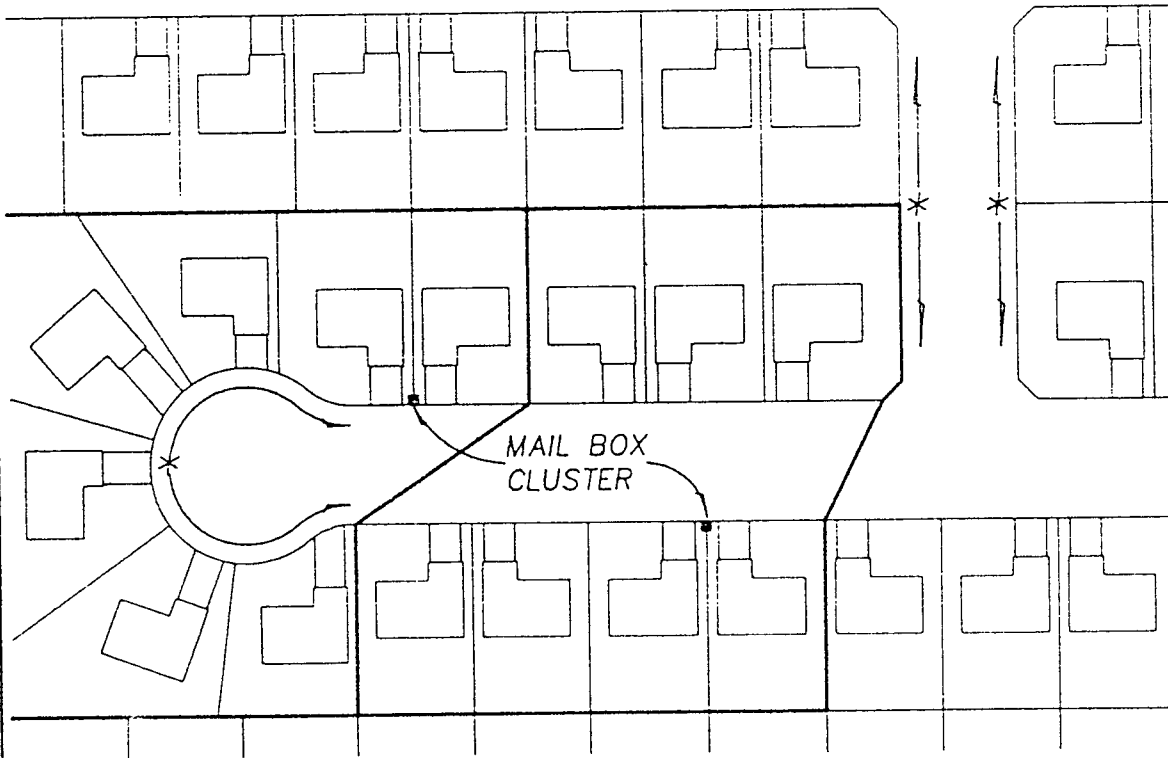
Approved ARS  
 Date 1-8-93

52



2'x3' water meter area  
(2 ea Christy B9 or Brooks 36)

Mail Box cluster location to avoid water meter boxes & water services



Type II & III mail box clusters in multi family residential developments only

\* Undesirable locations - space & traffic restrictions

Department of Public Works

City of Soledad, California

Mail Box Cluster (U.S.P.O. Type I)

Standard Detail

*Arnold R. Burnett*  
City Engineer RCE 17,186 (expires 6/30/93)

Approved *AMS*  
Date *1-8-93*

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