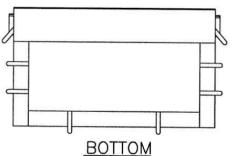


Rev.

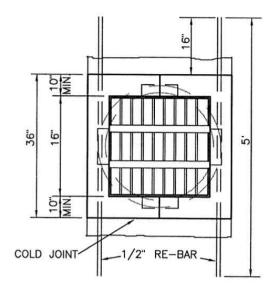


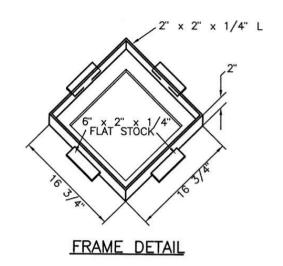
- ALL PARTS SHALL BE STRUCTURAL GRADE STEFT
- ALL PARTS, EXCEPT COVER, SHALL BE WELDED TO THE SPECIFICATIONS OF THE ENGINEER.
- ALL EXPOSED METAL PARTS SHALL BE PAINTED PER THE STANDARD SPECIFICATIONS FOR PAINTING.

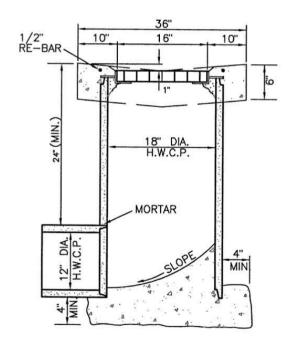
TYPE "D" INLET
THROAT FORM & FRAME

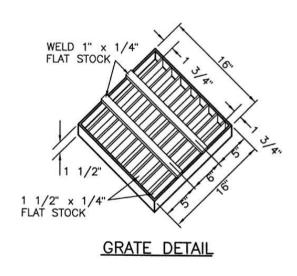
Date: 10/1/03

Wary a Tow City Engineer STD. NO. D-2









ALL CONCRETE SHALL BE CLASS "A" CONC. (6 SACK MIX)

"V" GUTTER CATCH BASIN

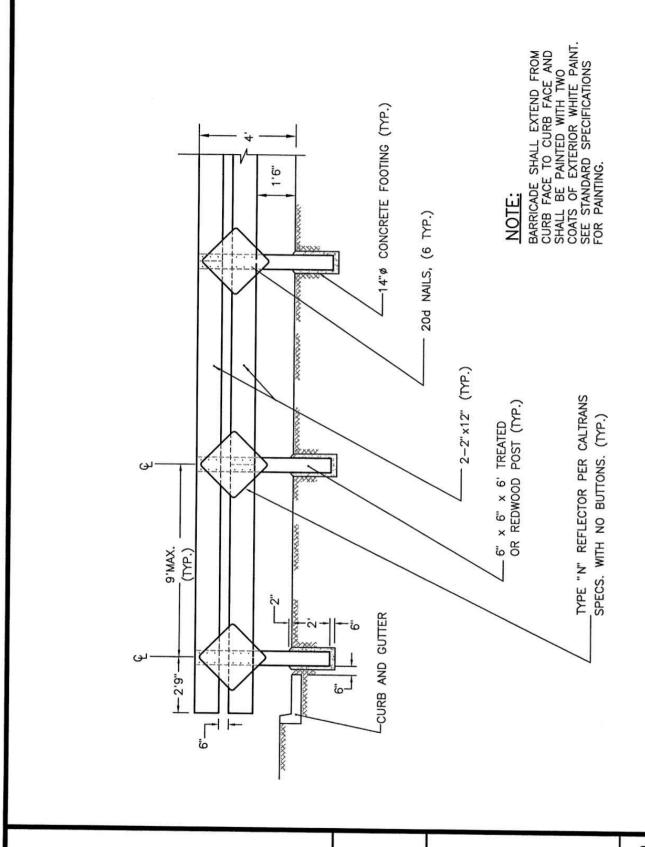
Date: 10/1/03

City Engineer

STD.

Rev.

D-3



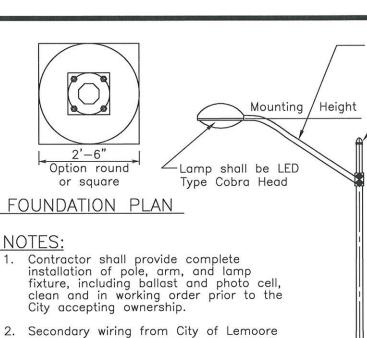
TEMPORARY BARRICADE

Date: 10/1/03

City Engineer

STD. NO. M-1

Rev.



splice box to pole shall be in 1-1/4" conduit with #8 copper conductors. All conduct spices shall occur inside of 1

1/2" x 5" hand hole and waterproof in—line fuse holders shall be installed.

4. All splices shall be done as per Type "C"

splice detail.

elevation.

PVC Tape

(See Caltrans ES-13)

All ground wires must be interconnected to all ground rods inside of all N-9 pull boxes and all back to point of service.

Arm shall be the Ameron galvanized steel bracket, number mr-sc-8', 10' & 12'. Single arm or approved equal. See table for required arm length.

Aluminum cap 5" typ. (o.d) (removable)

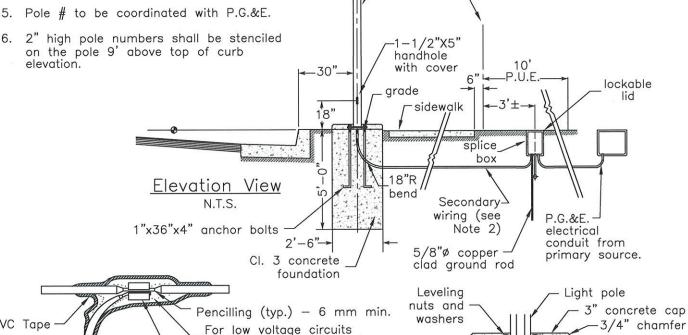
Street Type	Mounting	Arm	
	Height	Length	
Cul-de-Sac	28 ft.	8 ft.	
Residential	28 ft.	8 ft.	
Collector	32 ft.	10 ft.	
Arterial	32 ft.	12 ft.	

Pole shall be the Ameron (contemporary series) exposed aggregate marbelite pole, approved equal. Color: #123A grey terrazo exposed with acrylic coating. 10" maximum diameter of pole.

#8 copper wire in pole to luminaire and connected to ground rod

Property line

Street light to be located 6' from fire hydrant.



STREET LIGHT

Date: Jane 30,7015 City Engineer

CONCRETE CAP DETAIL

STD. NO. M-2

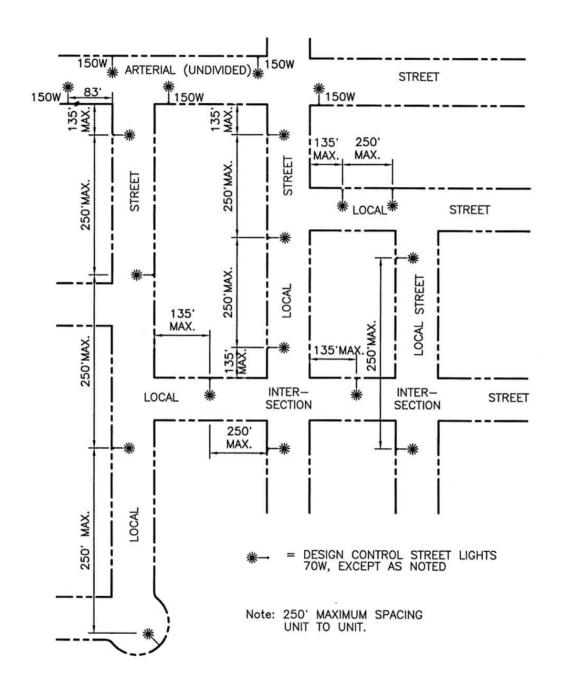
CI. 3 concrete foundation

Rev.

electrical filler compound, insulating pad or rubber tape

"C" Shaped compression

connector



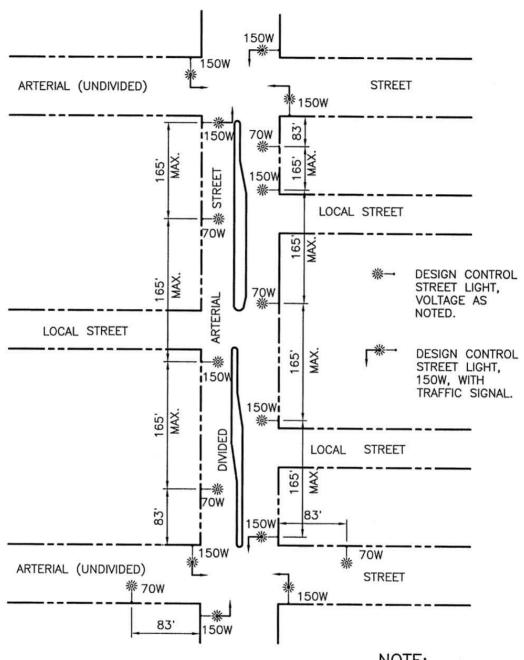
STREET LIGHT PLACEMENT LOCAL STREETS

Date: 10/1/03

Rev.

City Engineer

STD. NO. M-2A



Rev.

NOTE:

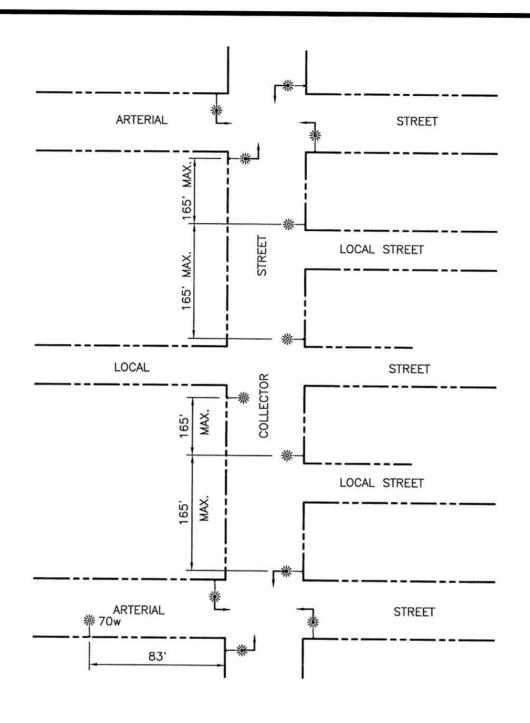
INDIVIDUAL SYSTEMS ON EACH SIDE WITH 165ft. MAX. SPACING ON EACH SIDE.

STREET LIGHT PLACEMENT DIVIDED ARTERIAL STREETS

Date: 10/1/03

City Engineer

STD. NO. M-2B



STAGGER OR ALL ON ONE SIDE MAX. SPACING UNIT TO 165ft. CURB TO CURB ROADWAY WIDTH 50ft. OR LESS. ※→= DESIGN CONTROL STREET LIGHTS: 150W, EXCEPT AS NOTED.

TWAFFIC SIGNAL.

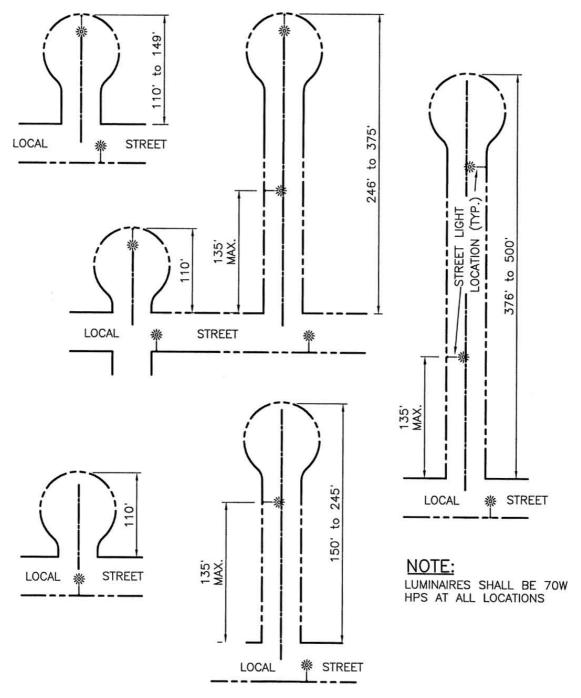
STREET LIGHT PLACEMENT COLLECTOR STREETS

Date: 10/1/03

Rev.

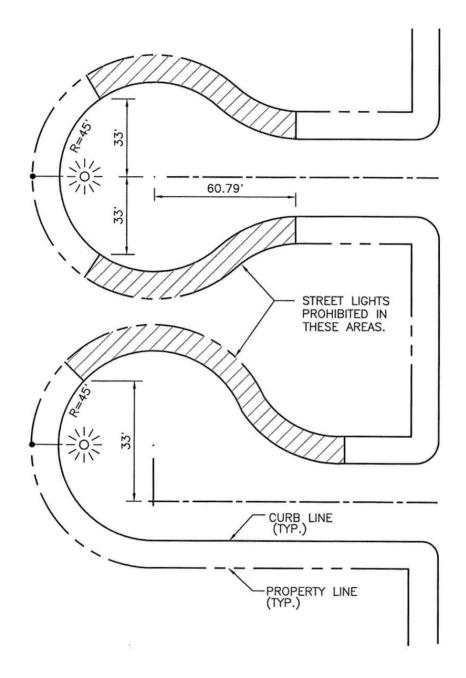
City Engineer

STD. NO. M-2C



STREET LIGHT LOCATIONS SHALL AVOID AREAS AS INDICATED ON STANDARD DETAIL M-2E.
 STREET LIGHT SHALL BE PLACED ON LOT LINES, WHERE POSSIBLE.

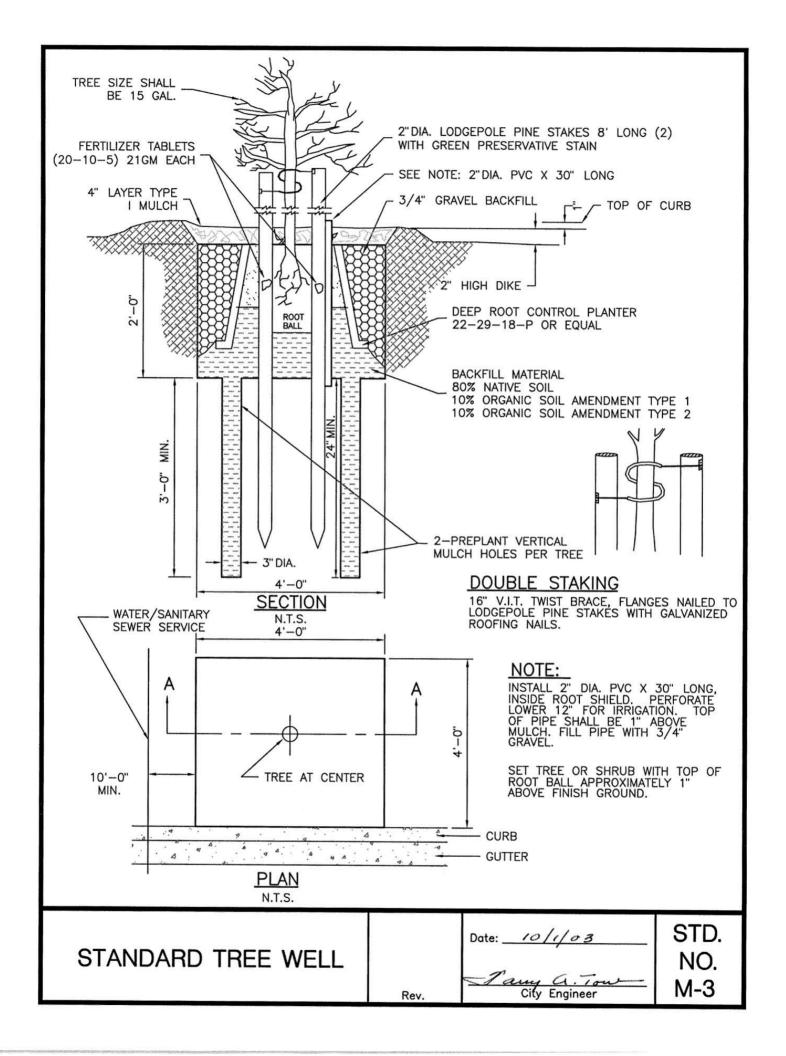
STD. STREET LIGHT PLACEMENT Date: __ 10/1/03 NO. **CUL-DE-SAC** City Engineer M-2D Rev.

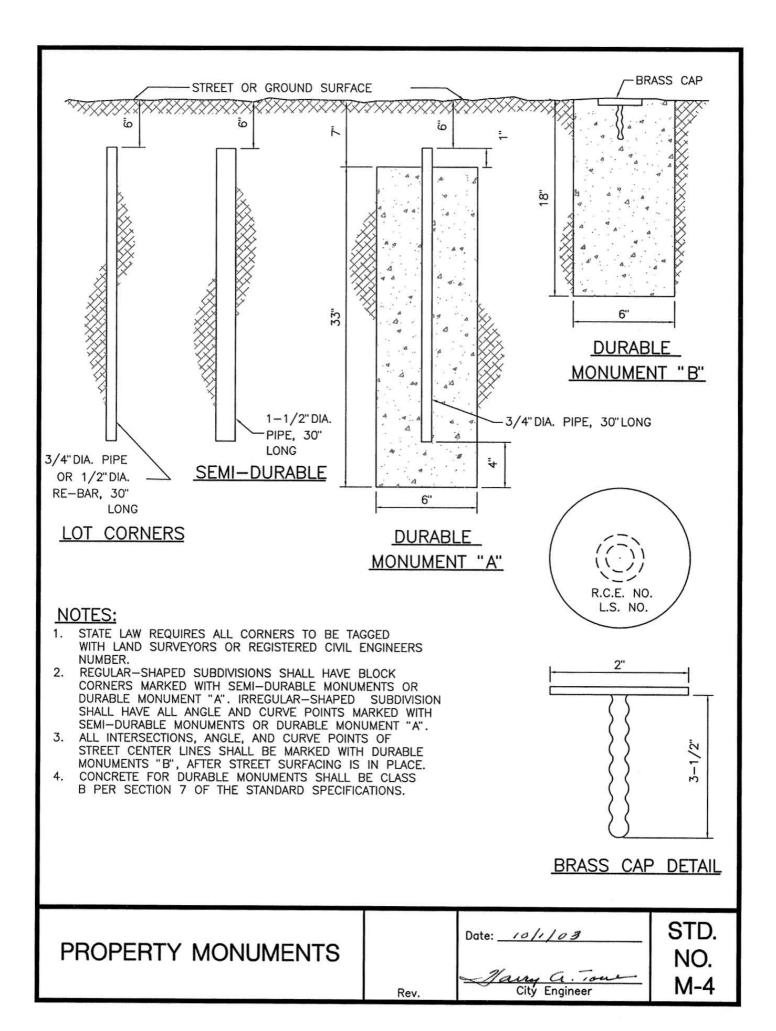


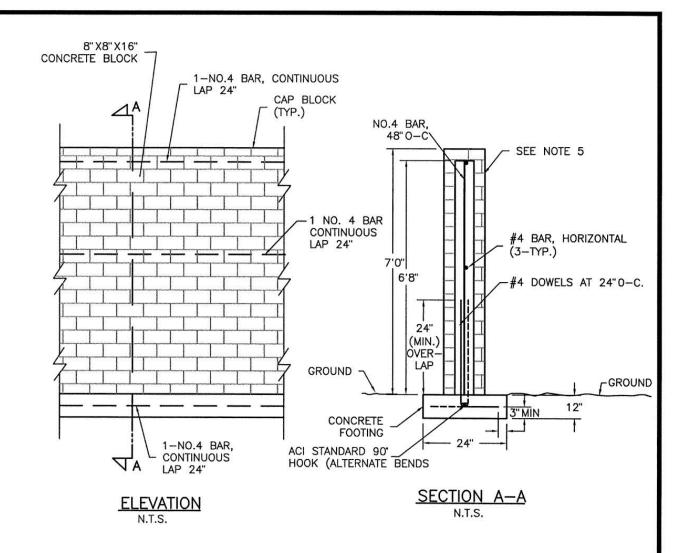
 STREET LIGHT LOCATION IS DEPENDENT UPON LENGTH OF CUL-DE-SAC. REFER TO STANDARD DETAIL M-2D.

STREET LIGHT PLACEMENT CUL-DE-SAC

Date: 10/1/03 STD. NO. NO. NO. M-2E

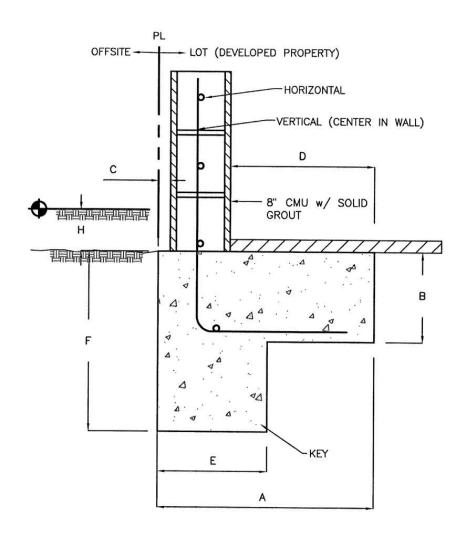






- 1. COMPLY WITH APPLICABLE SECTIONS OF THE CURRENTLY-ADOPTED U.B.C.
- IF FENCE IS TO ACT AS A RETAINING WALL, ADDITIONAL CALCULATIONS SHALL BE SUBMITTED BY DEVELOPER'S ENGINEER.
- HORIZONTAL REINFORCEMENT SHALL BE LADDER OR HORIZONTAL TRUSS TYPE WIRE AND SHALL HAVE A CROSS SECTIONAL AREA 0.061 SQ.IN/FT FOR 8" WALL.
- GROUT ALL CELLS SOLID USING PORTLAND CEMENT CONCRETE GROUT PER STATE STANDARD SPECIFICATIONS.
- 5. FOOTING SHALL BE CLASS "B" (2500 PSI) CONCRETE.
- 6. ALL MASONRY UNITS SHALL BE 1350 PSI MINIMUM.

7'-0" CONCRETE		Date: 10/1/03	STD.
BLOCK FENCE			NO.
DECOR I ENGL	Rev.	City Engineer	M-5

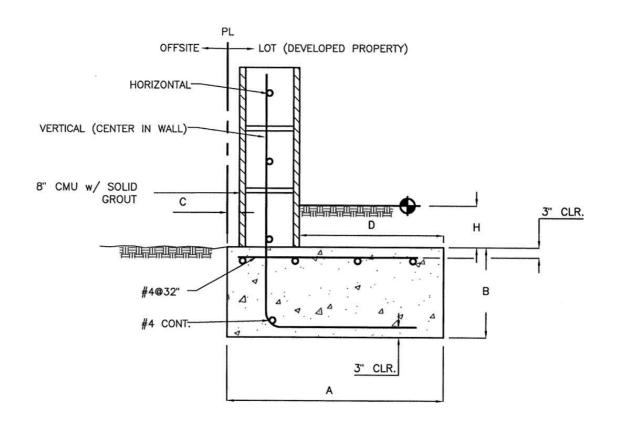


DETAIL A

FOUNDA	ATION SCH	EDUL	Ξ	WA	ALL.	K	EY
<u>H</u>	Α	В	С	VERT.	HORZ.	F	F
0'-8" TO LESS THAN 1	'-0" 1'-8"	12"	4"	#4@32	#4@32	NOT REQ'D	NOT REQ'D
1'-0" TO LESS THAN 2'-	-0" 2'-0"	12"	4"	#4@32	#4@32	8"	20"
2'-0" TO LESS THAN 3'-	-0" 2'-6"	12"	4"	#4@32	#4@32	8"	22"

NOTE: USE CITY OF LEMOORE STANDARD WOOD RETAINING WALL FOR 'H' LESS THAN 8".

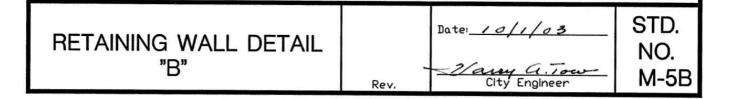
RETAINING WALL DETAIL "A"	Rev.	Date: 10/1/03 - 2/any a. Tour City Engineer	STD. NO. M-5A
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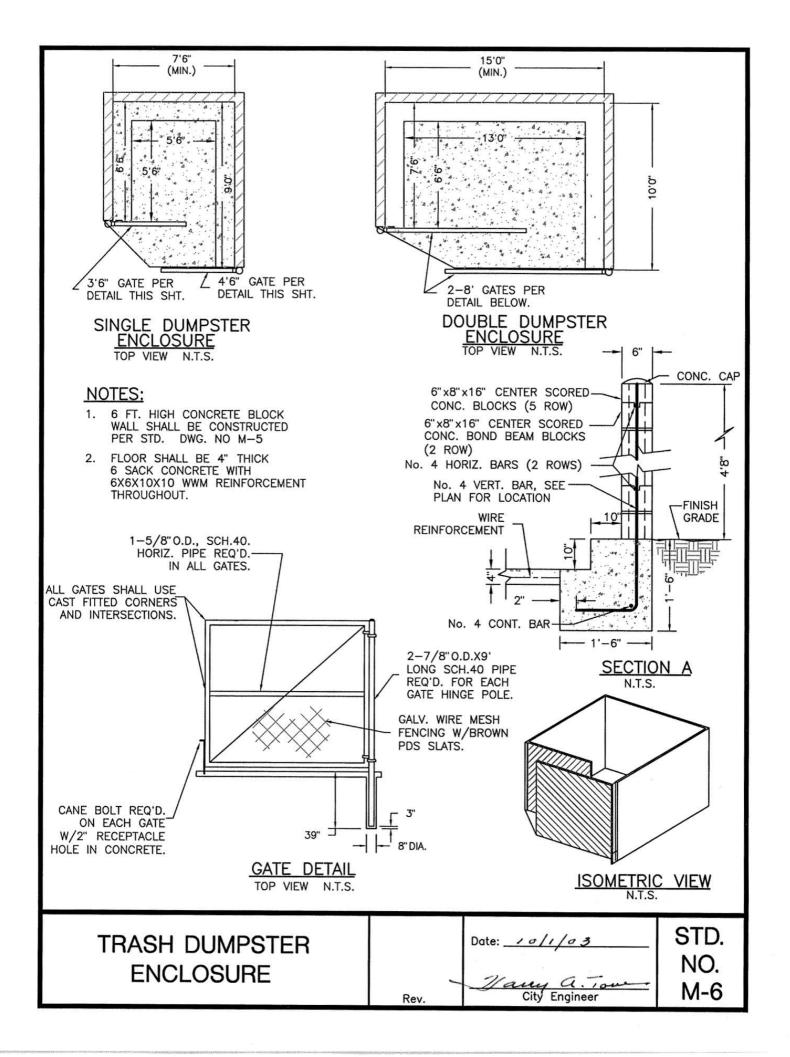


DETAIL B

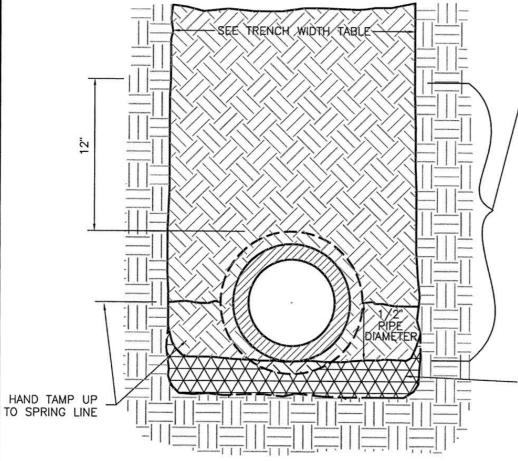
				FOUND	ATION	SCHE	DULE	W	/ALL
22	Н				_A_	В	С	VERT.	HORZ.
0'-8"	TO L	ESS	THAN	1'-0"	1'-4"	12"	4"	#4@32	#4@32 (MAX.)
1'-0"	TO L	ESS	THAN	2'-0"	2'-0"	12"	4"	#4@32	#4@32 (MAX.)
2'-0"	TO LI	ESS	THAN	3'-0"	3'-0"	12"	4"	#4@32	#4@32 (MAX.)

NOTE: USE CITY OF LEMOORE STANDARD WOOD RETAINING WALL FOR 'H' LESS THAN 8".





 FOR SURFACE REPLACEMENT AND ADJACENT COMPACTION REQUIREMENTS SEE STD. DRAWING M-8, SURFACE REPLACEMENT.



IMPORTED BACKFILL
MATERIAL FOR PIPE,
FITTINGS, AND
ANCHOR WALLS
SHALL CONSIST OF
CLEAN SAND HAVING
A SAND EQUIVALENT
VALUE OF NOT LESS
THAN 40, AS
DETERMINED BY
CALIFORNIA TEST
METHOD NO. 217.
COMPACTION SHALL
BE A MINIMUM
RELATIVE COMPACTION
OF 90%.

- A) WHERE HARDPAN IS ENCOUNTERED, TRENCH SHALL BE OVER—EXCAVATED A MIN. OF 4 INCHES, AND SELECT MATERIAL COMPACTED TO 90% RELATIVE COMPACTION SHALL BE PLACED TO GRADE PRIOR TO LAYING PIPE.
- B) WHERE WATER OR
 NON-STABLE TRENCH
 BOTTOM CONDITIONS ARE
 ENCOUNTERED, CONTRACTOR
 SHALL OVER-EXCAVATE AND
 CONSTRUCT CLASS I
 BACKFILL IN ACCORDANCE
 WITH THE STANDARD
 SPECIFICATIONS.

TRENCH WIDTH TABLE

NORMAL PIPE SIZE	MIN. TRENCH WIDTH	MAX. TRENCH WIDTH
4" THROUGH 12"	O.D. + 12"	O.D. + 18"
14" THROUGH 30"	O.D. + 18"	O.D. + 24"

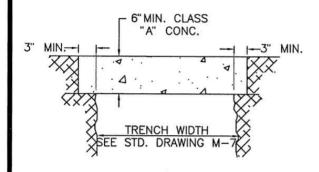
TRENCH BACKFILL

Date: 10/1/03

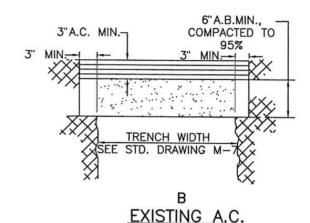
STD. NO. M-7

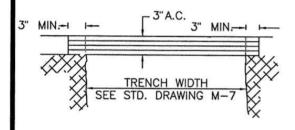
Rev.

Mary a. Town City Engineer



EXISTING CONCRETE





c EXISTING BITUMINOUS

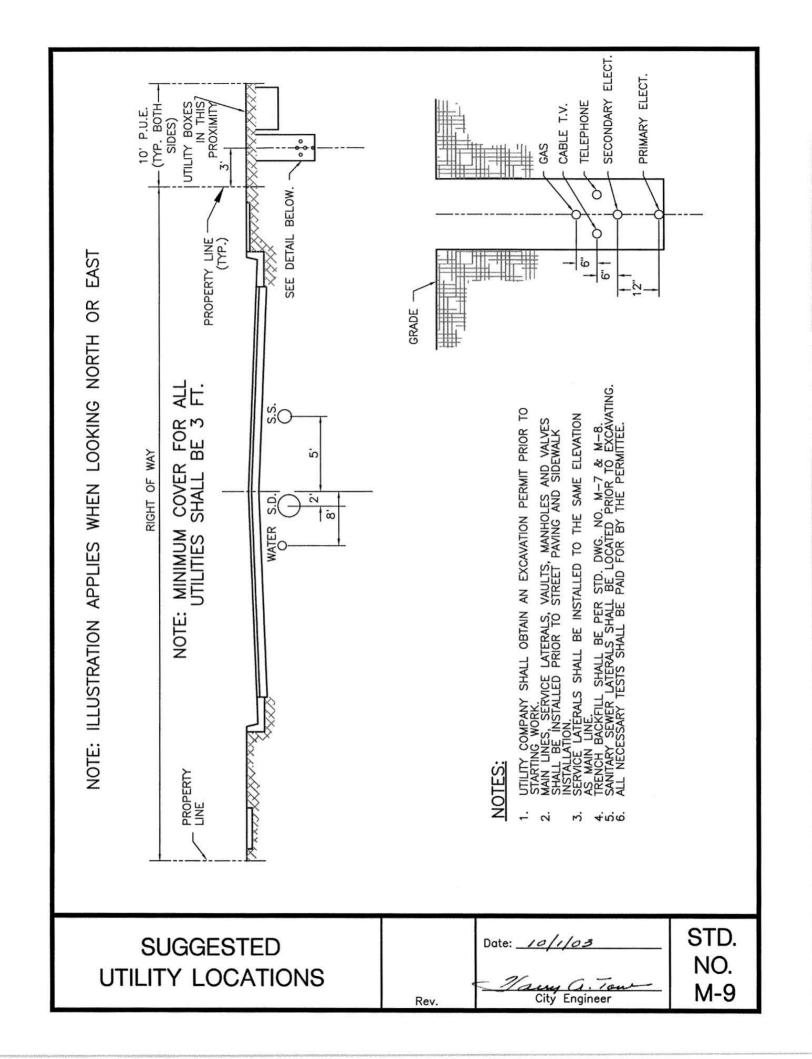
NOTES:

- TEMPORARY RESURFACING MAY BE REQUIRED IN ALL STREETS AS DIRECTED BY THE CITY ENGINEER.
- "A.C." SHALL MEAN TYPE "B" ASPHALT CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR ASPHALT CONCRETE.
- 3. "A.B." SHALL MEAN CLASS 2
 AGGREGATE BASE IN ACCORDANCE
 WITH THE STANDARD SPECIFICATIONS.
- PAVEMENT SECTIONS SHOWN ABOVE ARE MINIMUMS. IF THE EXISTING STRUCTURAL SECTION IS GREATER, THICK— NESS OF TRENCH RESURFACING SHALL MATCH EXISTING.
- BACKFILL SHALL BE COMPACTED TO 90% RELATIVE COMPACTION TO A DEPTH OF 1 FOOT ABOVE PIPE.

SURFACE REPLACEMENT

Rev.

Date: 10/1/03 STD.
NO.
NO.
M-8

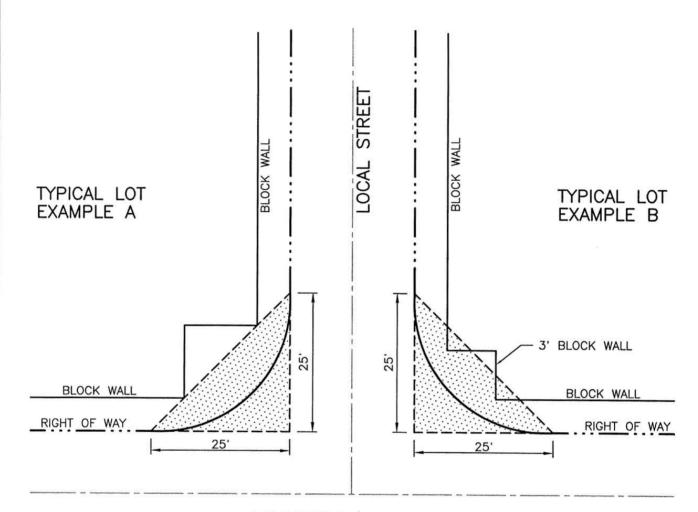


EXAMPLE A:

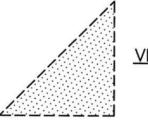
WALL OUTSIDE OF VISIBILITY TRIANGLE SHALL BE THE HEIGHT SPECIFIED IN THE CONDITIONS OF APPROVAL.

EXAMPLE B:

WALL OUTSIDE OF VISIBILITY TRIANGLE SHALL BE THE HEIGHT SPECIFIED IN THE CONDITIONS OF APPROVAL. WALL WITHIN VISIBILITY TRIANGLE SHALL BE 3' HIGH OR LESS.



COLLECTOR/ARTERIAL STREET



VISIBILITY TRIANGLE

NOT TO SCALE

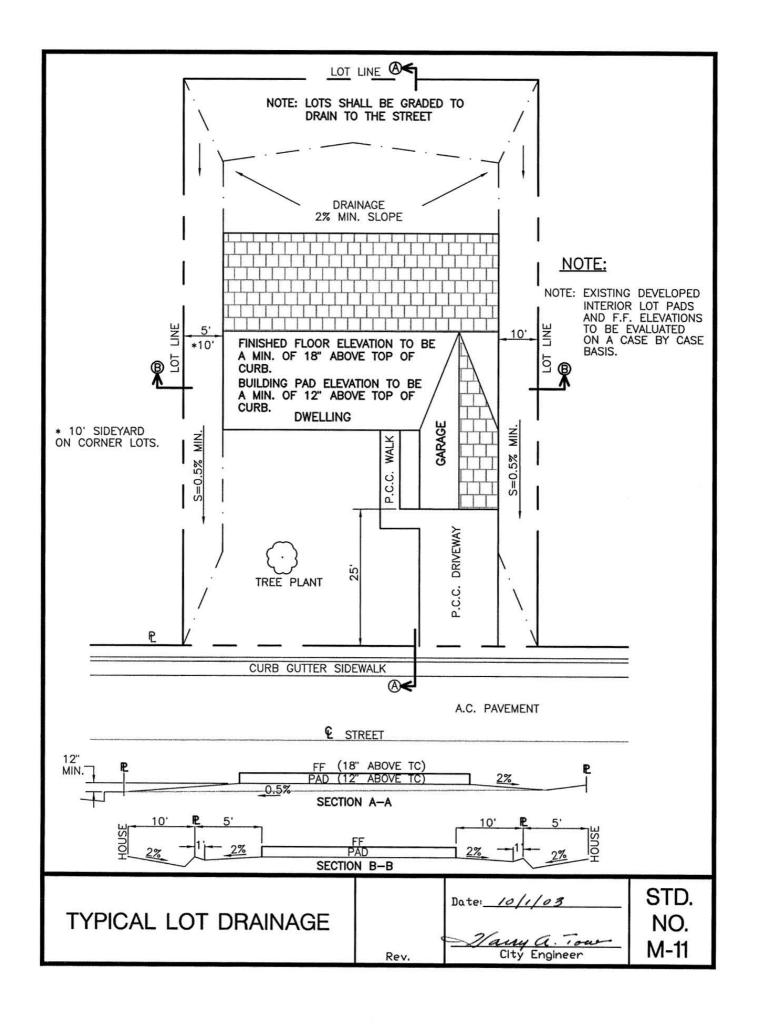
VISIBILITY TRIANGLE

Date: 10/1/03

STD. NO. M-10

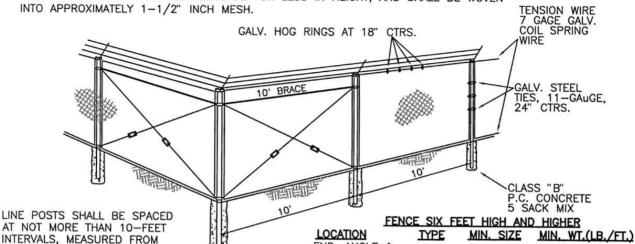
Rev.

City Engineer



POSTS TOPS, EXTENSION ARMS, STRETCHER BARS AND OTHER REQUIRED FITTINGS AND HARDWARE SHALL BE STEEL OR MALLEABLE IRON OR WROUGHT IRON AND SHALL BE GALVANIZED.

WIRE USED IN THE MANUFACTURING OF THE FABRIC SHALL BE NO. 11 ASW-GAUGE COPPER STEEL WIRE FOR ALL FENCE 72" OR LESS IN HEIGHT, AND SHALL BE WOVEN INTO APPROXIMATELY 1-1/2" INCH MESH.

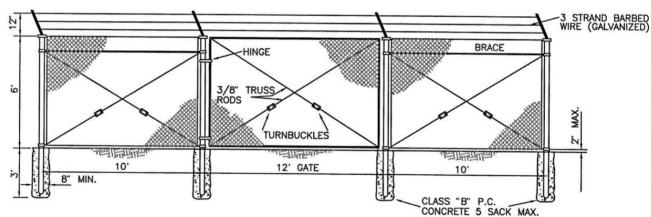


CENTER TO CENTER OF POSTS.

END, CORNER, AND GATE POSTS SHALL BE BRACED TO THE NEAREST LINE POST WITH GALVANIZED DIAGONAL OR HORIZONTAL BRACES USED AS COMPRESSION MEMBERS AND GALVANIZED 3/8"

STEEL TRUSS RODS WITH TURNBUCKLES USED AS TENSION MEMBERS.

FEN	CES LESS T	HAN SIX	FEET H	IGH
LOCATION	IYPE A	IIN. SIZE	MIN.	WT.(LB./FT.)
END, ANGLE & CORNER POSTS LINE POSTS	PIPE PIPE H-SECTION	2.500" 2.000" 2.000"	O.D. O.D.	3.65 2.72
BRACES GATE POSTS	PIPE PIPE	1.625" 3.000"	O.D. O.D.	2.80 2.27 5.79



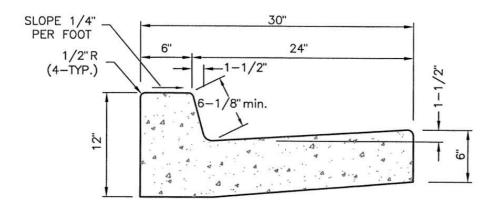
GATE FRAME SHALL BE CONSTRUCTED OF NOT LESS THAN 1.86" DIA. GALVANIZED PIPE AND SHALL BE CROSS TRUSSED WITH 3/8" ADJUSTABLE TRUSS RODS. THE CORNER OF GATE FRAMES SHALL BE FASTENED TOGETHER WITH A MALLEABLE IRON FITTING OR WELDED & GALVANIZE COATED OVER WELDS.

THE GATE SHALL BE HUNG BY AT LEAST TWO (2) STEEL OR MALLEABLE IRON HINGES NOT LESS THAN THREE INCHES (3") IN WIDTH, AND A MALLEABLE CATCH AND LOCKING ATTACHMENT.

ALL POSTS SHALL BE A MINIMUM OF 9' LONG.

CHAIN LINK FENCING
AND GATE

Date: 10/1/03 STD.
NO.
NO.
City Engineer M-12



CURB & GUTTER DETAIL N.T.S.

NOTES:

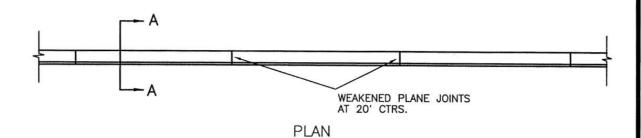
- CONCRETE SHALL BE CLASS "B", 2500 PSI, IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONCRETE CURB AND GUTTER.
- 2. CURB AND GUTTER SHALL BE PLACED TO THE GRADES SHOWN ON THE PLANS, AND SHALL NOT VARY MORE THAN THE TOLERANCE STATED IN THE STANDARD SPECIFICATIONS FOR PORTLAND CEMENT CONCRETE IMPROVEMENTS.
- CURB SHALL BE GIVEN A LIGHT BROOM FINISH. GUTTER PAN SHALL BE GIVEN A ROUGH BROOM FINISH.
- 4. FINISHED EDGE OF ASPHALT PAVEMENT SHALL BE FLUSHED WITH OR UP 1/4" ABOVE LIP OF GUTTER.

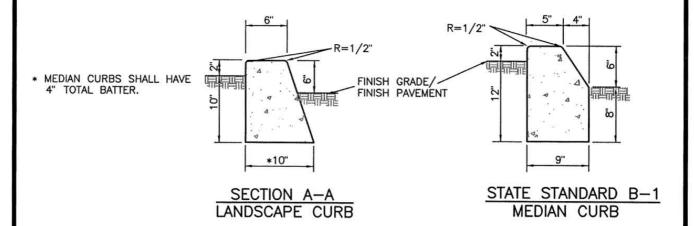
CURB AND GUTTER

Date: 10/1/03 STD.

NO.

Rev. City Engineer P-1



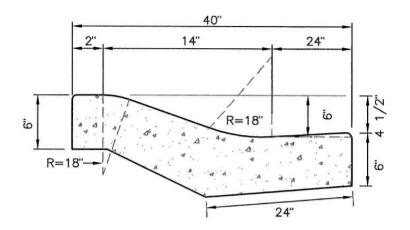


NOTES
1. ALL CONCRETE WORK SHALL
BE OF CLASS "B" CONC. (5 SACK
MIX.) 2500 P.S.I.

- 2. ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH.
- 3. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 20' CTRS. AND SHALL BE A MIN. DEPTH OF 1" AND SHALL BE FINISHED WITH A SCORING TOOL LEAVING THE EDGES ROUNDED.

MEDIAN & LANDSCAPE
CURB

Date: 10/1/03 STD.
NO.
NO.
City Engineer P-1A



ROLLED CURB & GUTTER DETAIL

N.T.S.

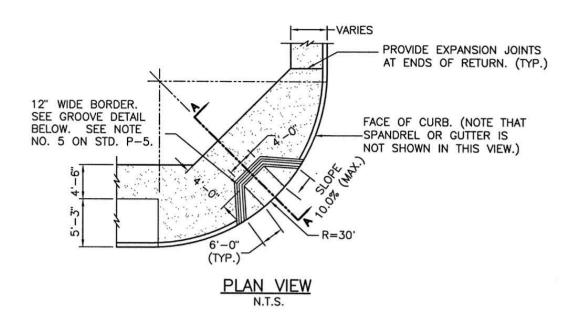
NOTES:

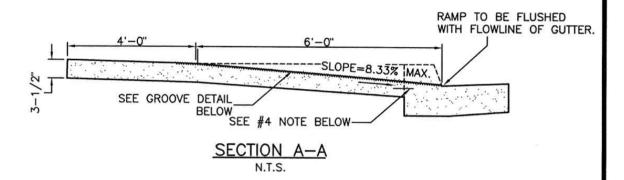
- CONCRETE SHALL BE CLASS "B", 2500 PSI, IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONCRETE CURB AND GUTTER.
- CURB AND GUTTER SHALL BE PLACED TO THE GRADES SHOWN ON THE PLANS, AND SHALL NOT VARY MORE THAN THE TOLERANCE STATED IN THE STANDARD SPECIFICATIONS FOR PORTLAND CEMENT CONCRETE IMPROVEMENTS.
- 3. CURB SHALL BE GIVEN A LIGHT BROOM FINISH. GUTTER PAN SHALL BE GIVEN A ROUGH BROOM FINISH.
- 4. FINISHED EDGE OF ASPHALT PAVEMENT SHALL BE FLUSHED WITH OR UP 1/4" ABOVE LIP OF GUTTER.
- 5. MINIMUM GRADIENT OF 0.15 FEET PER 100 FEET.

ROLLED CURB AND GUTTER Date: 10/1/03

City Engineer

STD. NO. P-1B

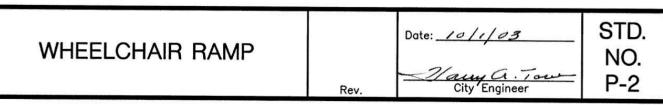


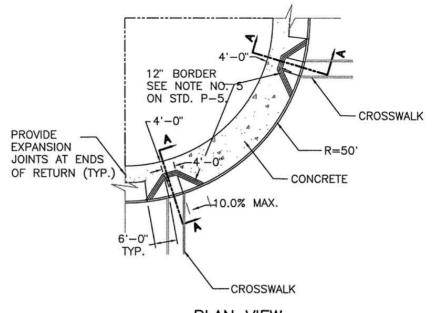


- CONCRETE SHALL BE CLASS "B" IN ACCORDANCE WITH SECTION 7 OF THE STANDARD SPECIFICATIONS.
- A GUTTER IS REQUIRED. REFER TO PLANS AND STD. DWG, NO. P-1 FOR CONSTRUCTION SPECIFICATIONS.
- EXPANSION JOINTS ARE REQUIRED AT THE ENDS OF ALL CURB RETURNS.
- APPROX.)

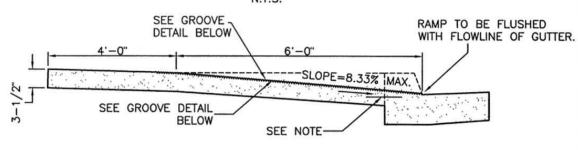
 A STATE (APPROX.)

 A STATE (APPROX.)
- 4. IN LIEU OF A CONTIGUOUS CURB/SIDEWALK SECTION, THE CONTRACTOR MAY USE DOWELS. DOWELS SHALL BE #3 SMOOTH BARS, 12" LONG, SET 4" INTO THE CURB AND 8" INTO THE SIDEWALK AT 48"C-C. AREA ALONG CURB, EXTENDING 2 FEET UNDER THE SIDEWALK, SHALL BE TREATED WITH SOIL STERILANT TO PREVENT WEED GROWTH BETWEEN CURB AND SIDEWALK.





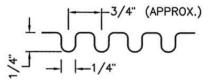
PLAN VIEW



SECTION A-A N.T.S.

NOTES:

- CONCRETE SHALL BE CLASS "B" IN ACCORDANCE WITH SECTION 7 OF THE STANDARD SPECIFICATIONS.
- A GUTTER IS REQUIRED. REFER TO PLANS AND STD. DWG. NO. P-1 FOR CONSTRUCTION SPECIFICATIONS.
- EXPANSION JOINTS ARE REQUIRED AT THE ENDS OF ALL CURB RETURNS.



GROOVE DETAIL N.T.S.

NOTE:

IN LIEU OF A CONTIGUOUS CURB/SIDEWALK SECTION, THE CONTRACTOR MAY USE DOWELS. DOWELS SHALL BE #3 SMOOTH BARS, 12" LONG, SET 4" INTO THE CURB AND 8" INTO THE SIDEWALK AT 48"C-C. AREA ALONG CURB, EXTENDING 2 FEET UNDER THE SIDEWALK, SHALL BE TREATED WITH SOIL STERILANT TO PREVENT WEED GROWTH BETWEEN CURB AND SIDEWALK.

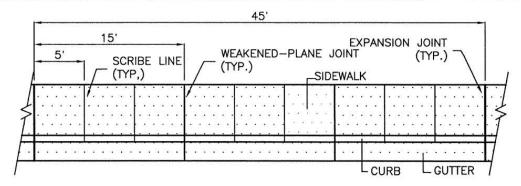
ALTERNATE
WHEELCHAIR RAMP

Date: 10/1/03

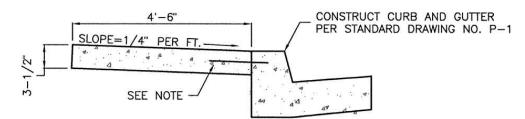
Sany a. Tow
City Engineer

STD. NO. P-2A

Rev.



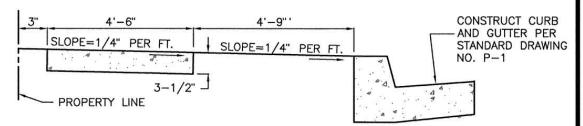
CURB, GUTTER & SIDEWALK SCRIBE LINE DETAIL N.T.S.



NOTE:

IN LIEU OF A CONTIGUOUS CURB/SIDEWALK SECTION, THE CONTRACTOR MAY USE DOWELS. DOWELS SHALL BE #3 SMOOTH BARS, 12" LONG, SET 4" INTO THE CURB AND 8" INTO THE SIDEWALK AT 48"C-C. AREA ALONG CURB, EXTENDING 2 FEET UNDER THE SIDEWALK, SHALL BE TREATED WITH SOIL STERILANT TO PREVENT WEED GROWTH BETWEEN CURB AND SIDEWALK.

CONTIGUOUS CURB, GUTTER AND SIDEWALK N.T.S.



NON-CONTIGUOUS SIDEWALK PATTERN

NOTES:

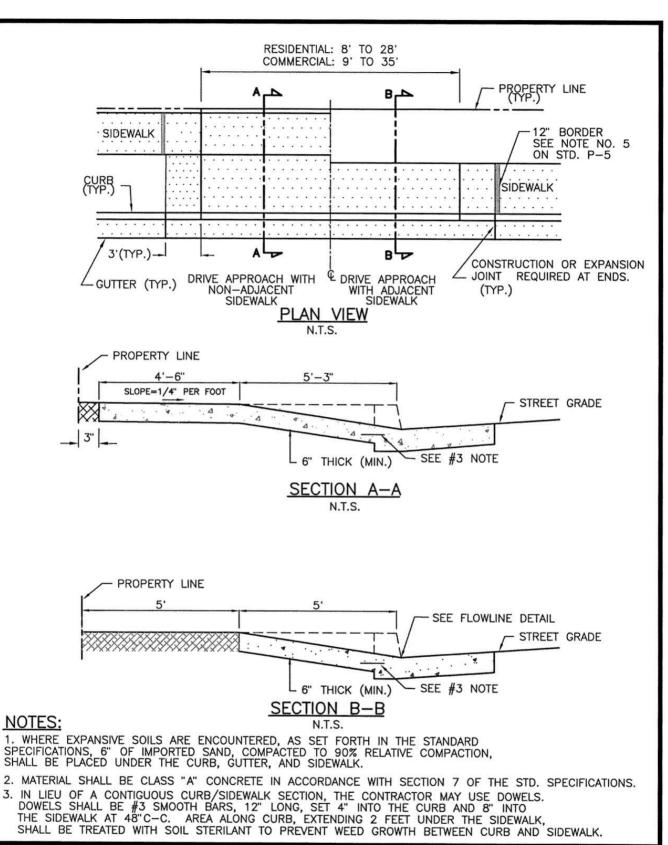
- 1. WHERE EXPANSIVE SOILS ARE ENCOUNTERED, AS SET FORTH IN THE STANDARD SPECIFICATIONS, 6" OF IMPORTED SAND, COMPACTED TO 90% RELATIVE COMPACTION, SHALL BE PLACED UNDER THE CURB, GUTTER AND SIDEWALK.
- 2. IN THE AREA BETWEEN THE NEW CURB AND GUTTER AND THE EXISTING STREET SURFACE PROVIDE A MINIMUM OF 24" TRANSITION PAVING AT A MINIMUM OF 2" A.C. OVER 6" A.B. OR MATCH EXISTING STREET SECTION.
- THE AREA BETWEEN CURB AND SIDEWALK SHALL BE FILLED TO 0.10' BELOW TOP OF SURROUNDING CONCRETE WITH CLEAN TOP SOIL FREE OF DEBRIS.
- 4. SCRIBE LINE DETAIL APPLIES TO BOTH CONTIGUOUS AND NON-CONTIGUOUS PATTERNS.
- CONCRETE SHALL BE CLASS "B" IN ACCORDANCE WITH SECTION 7 OF THE STANDARD SPECIFICATIONS.

SIDEWALK

Date: 10/1/03 STD.

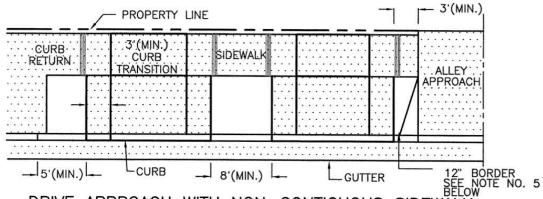
NO.

Rev. City Engineer P-3

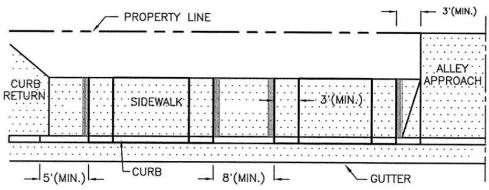


DRIVE APPROACH
CONSTRUCTION

Date: 10/1/03 STD.
NO.
Rev. City Engineer P-4



DRIVE APPROACH WITH NON-CONTIGUOUS SIDEWALK
N.T.S.



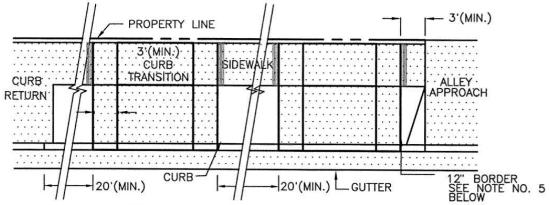
DRIVE APPROACH WITH CONTIGUOUS SIDEWALK N.T.S.

NOTES:

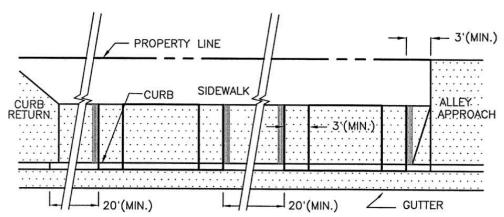
- 1. 60% MAXIMUM OF CURB FACE MAY BE USED FOR DRIVE APPROACH THROAT WIDTH.
- 2. CONSTRUCTION OF DRIVE APPROACHES SHALL BE IN ACCORDANCE WITH STANDARD DRAWING NO. P-4.
- 3. RESIDENTIAL DRIVE APPROACH THROAT WIDTH SHALL BE 8 FEET MINIMUM AND 28 FEET MAXIMUM.
- 4. NO. 4 BARS @ 12" O.C. EACH WAY AND NO. 4 BARS TO EXTEND 12" BEYOND CONSTRUCTION JOINTS.
- 5. A 12" WIDE BORDER OF 1/4" X 1/4" WIDE GROOVES 3/4" APART SHALL BE LOCATED ON THE LEVEL SIDEWALK SURFACE AT THE TOP OF THE DRIVEWAY

RESIDENTIAL DRIVE APPROACH PLACEMENT

Rev. Date: 10/1/03 STD. NO. P-5



DRIVE APPROACH WITH NON-CONTIGUOUS SIDEWALK N.T.S.

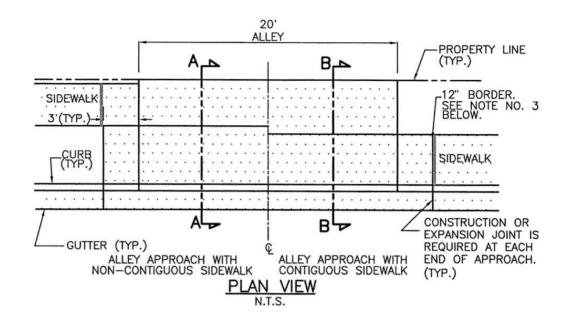


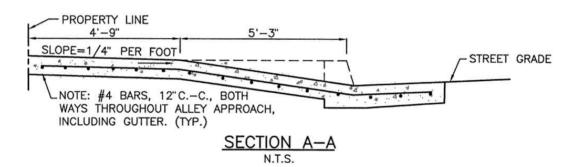
DRIVE APPROACH WITH CONTIGUOUS SIDEWALK N.T.S.

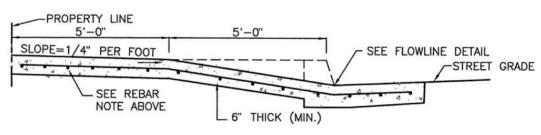
NOTES:

- 1. 60% MAXIMUM OF CURB FACE MAY BE USED FOR DRIVE APPROACH THROAT WIDTH.
- 2. CONSTRUCTION OF DRIVE APPROACHES SHALL BE IN ACCORDANCE WITH STANDARD DRAWING NO. P-4.
- 3. COMMERCIAL DRIVE APPROACH SHALL BE 9 FEET MINIMUM AND 35 FEET MAXIMUM.
- 4. NO. 4 BARS @ 12" O.C. EACH WAY AND NO. 4 BARS TO EXTEND 12" BEYOND CONSTRUCTION JOINTS.
- 5. A 12" WIDE BORDER OF 1/4" X 1/4" WIDE GROOVES 3/4" APART SHALL BE LOCATED ON THE LEVEL SIDEWALK SURFACE AT THE TOP OF THE DRIVEWAY

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COMMERCIAL & INDUSTRIAL		Date: 10/1/03	STD.
DRIVE APPROACH			NO.
PLACEMENT	Rev.	City Engineer	P-6



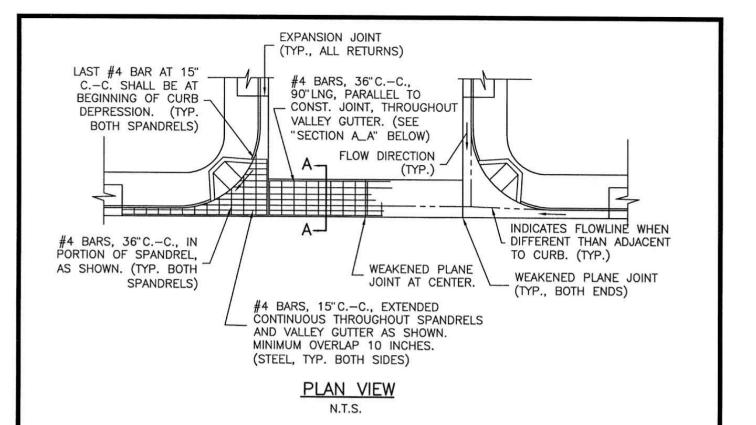


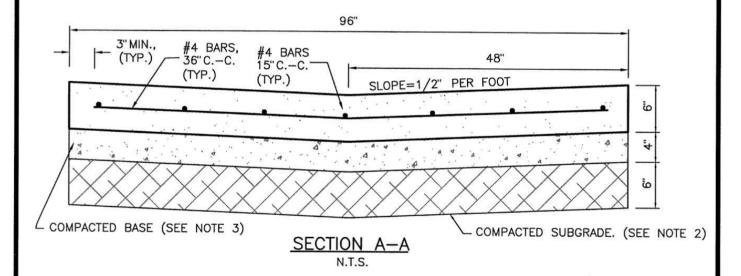


SECTION B-B

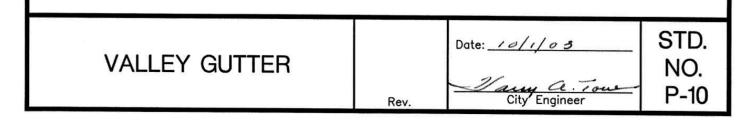
- OF IMPORTED SAND, COMPACTED TO 90% RELATIVE COMPACTION SHALL BE PLACED UNDER THE CURB, GUTTER, AND SIDEWALK.
- 2. MATERIAL SHALL BE CLASS "A" CONCRETE IN ACCORDANCEWITH SECTION 7 OF STD. SPECIFICATIONS.
- 3. A 12" WIDE BORDER OF 1/4" X 1/4" WIDE GROOVES 3/4" APART SHALL BE LOCATED ON THE LEVEL SIDEWALK SURFACE AT THE TOP OF THE DRIVEWAY

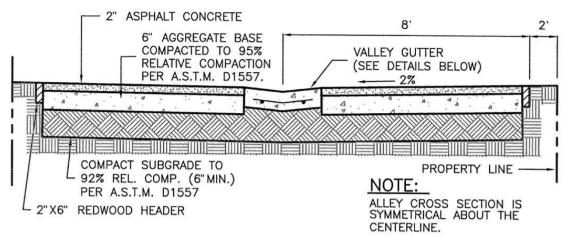
ALLEY APPROACH		Date: 10/1/03	STD.
CONSTRUCTION		20	NO.
CONCINCON	Rev.	City Engineer	P-9



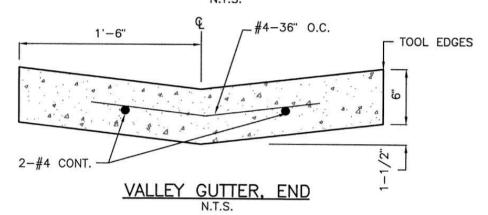


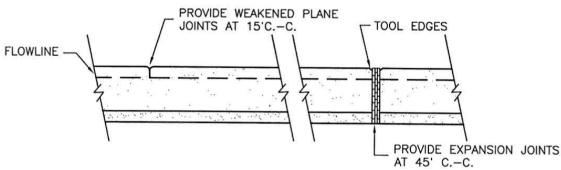
- 1. MATERIAL SHALL BE CLASS "B" CONCRETE IN ACCORDANCE W/ SECTION 7 OF STANDARD SPECIFICATIONS.
- COMPACT SUBGRADE TO 92% RELATIVE COMPACTION, PER ASTM D1557
- BASE SHALL BE 4 INCHES CLII AGGREGATE BASE OR DECOMPOSED GRANITE, TO 95% RELATIVE COMPACTION PER ASTM D1557.
- 4. MINIMUM SLOPE SHALL BE 0.0030.





ALLEY CROSS SECTION N.T.S.





VALLEY GUTTER, PROFILE

ALLEY WITH VALLEY GUTTER Date: 10/1/03

Vary a. Tow

City Engineer

STD. NO. P-11

Rev.

STREET CLASSIFICATION	<u>T.I.</u>
RESIDENTIAL STREET	5.0
RESIDENTIAL COLLECTOR	5.5
COLLECTOR STREET	6.0
ARTERIAL STREET	7.0

AREAS CONSIDERED AS SHOULDERS MAY HAVE T.I.'S EQUAL TO 60% OF THAT REQUIRED FOR THE TRAVEL LANES. THE MINIMUM T.I. FOR DESIGN OF SHOULDERS IS 4.5.

STREETS SHALL BE DESIGNED FOR THE T.I. REQUIRED FOR THE STREET'S CLASSIFICATION AS SHOWN ON THE CURRENT GENERAL PLAN, EXCEPT WHERE TRAFFIC STUDIES INDICATE A HIGHER T.I. MAY BE JUSTIFIED BY THE CITY.

TRAFFIC INDEX CHART

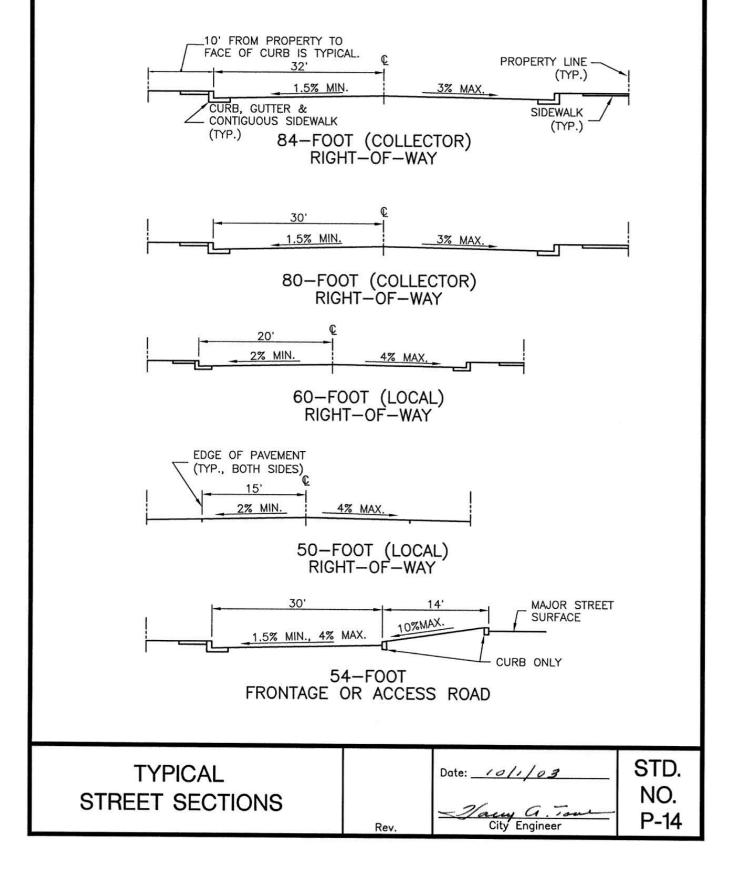
Date: 10/1/03

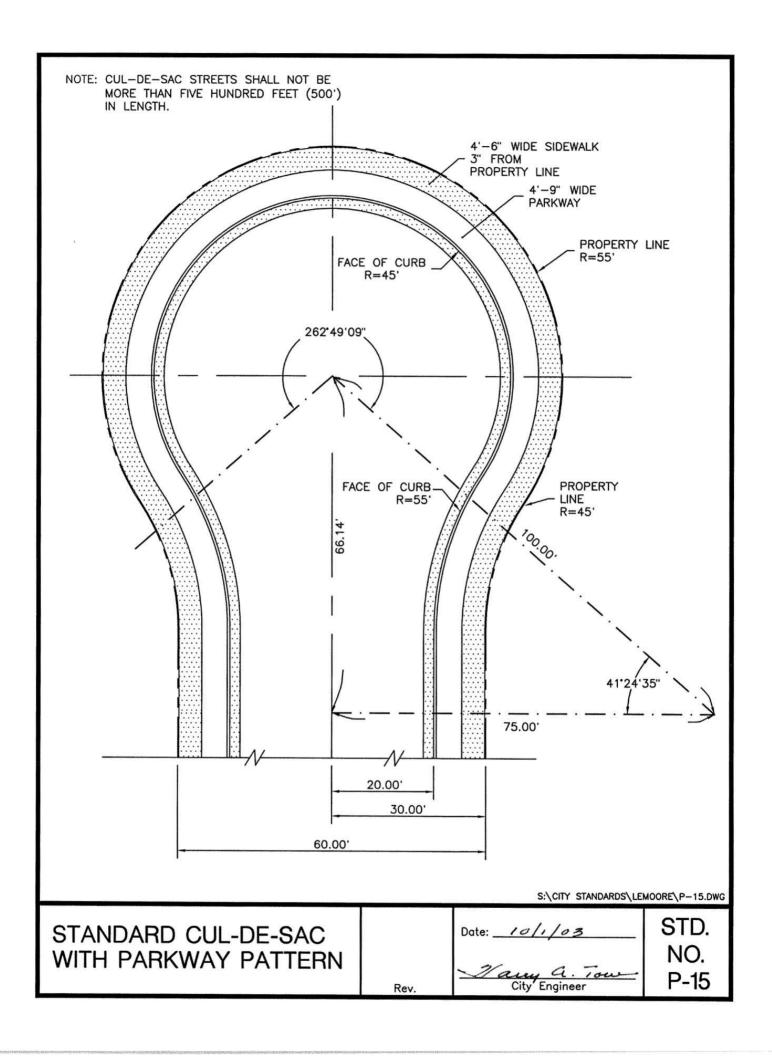
City Engineer

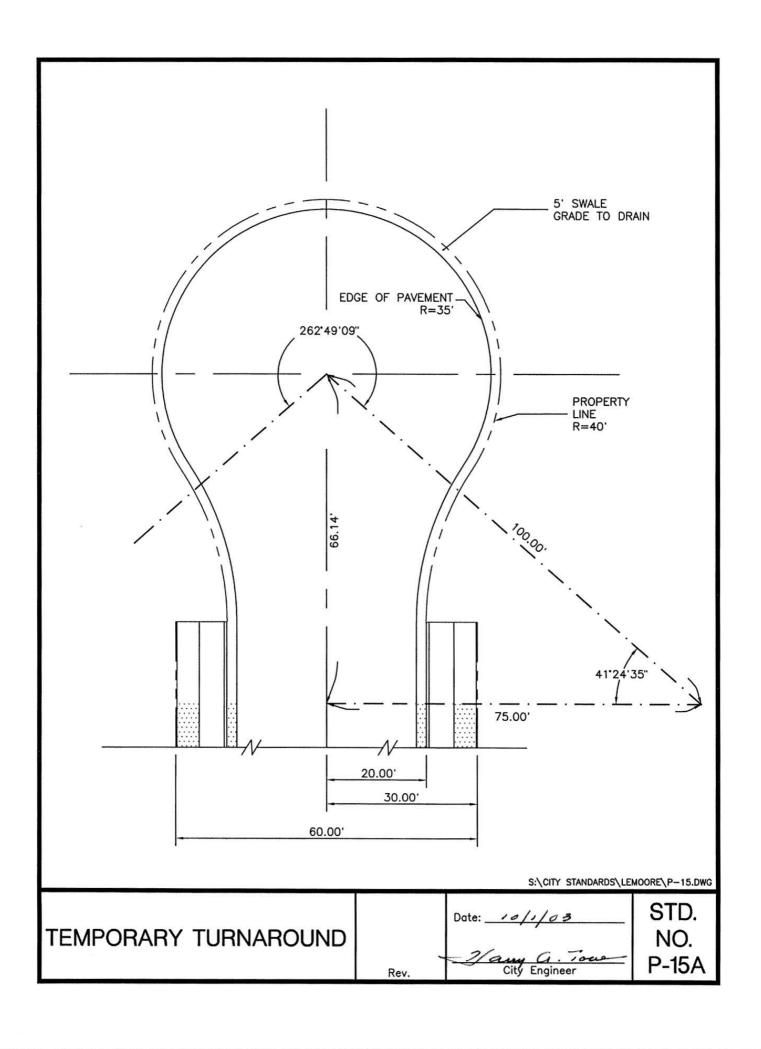
STD. NO. P-12

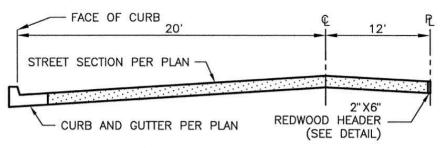
Rev.

1

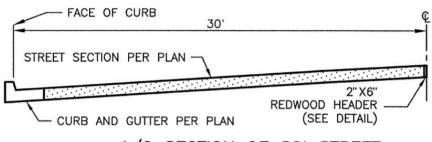




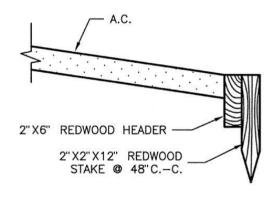




2/3 SECTION OF 60' STREET N.T.S.



1/2 SECTION OF 80' STREET N.T.S.



REDWOOD HEADER DETAIL N.T.S.

NOTE:

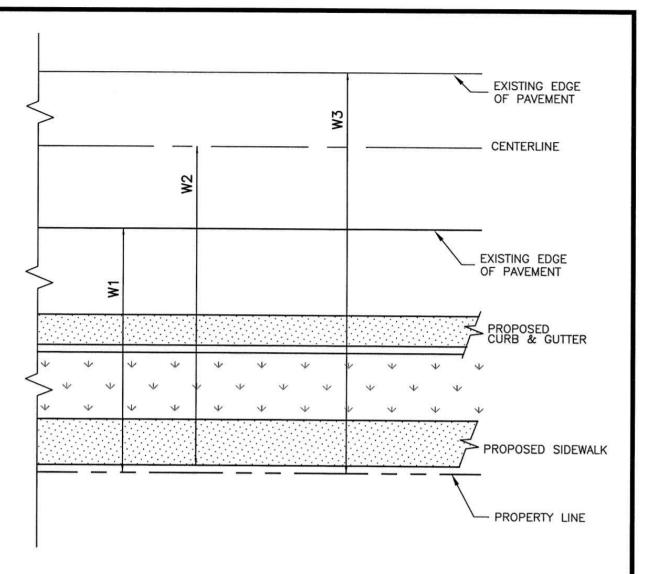
SLOPE 4:1 MAX. FROM REDWOOD HEADER TO EXISTING SURFACE OR NATURAL GROUND.

BOUNDARY STREET IMPROVEMENTS

Date: 10/1/03

City Engineer

STD. NO. P-16



- A. IF THE TWO CONDITIONS BELOW CAN BE MET, THE DEVELOPER WILL BE REQUIRED TO CONSTRUCT ALL IMPROVEMENTS FOR THE WIDTH W1.
- B. IF THE FIRST CONDITION CANNOT BE MET USING THE EXISTING PAVEMENT EDGE, BUT COULD BE MET BY RECONSTRUCTING THE WIDTH W2, THAT SHALL BE THE REQUIREMENT.
- C. IF THE SECOND CONDITION IS NOT MET, OR IF THE FIRST CONDITION CANNOT BE MET BY THE METHODS OUTLINED IN A OR B ABOVE, THE DEVELOPER SHALL RECONSTRUCT ALL IMPROVEMNETS FOR THE WIDTH W3.

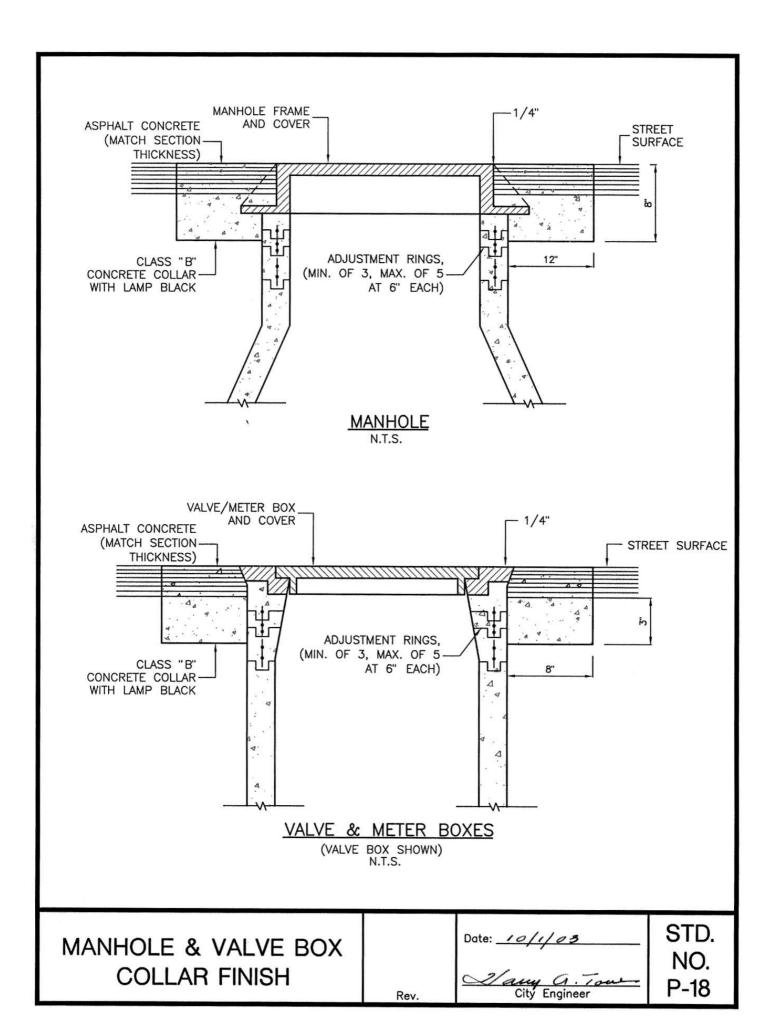
CONDITION 1:

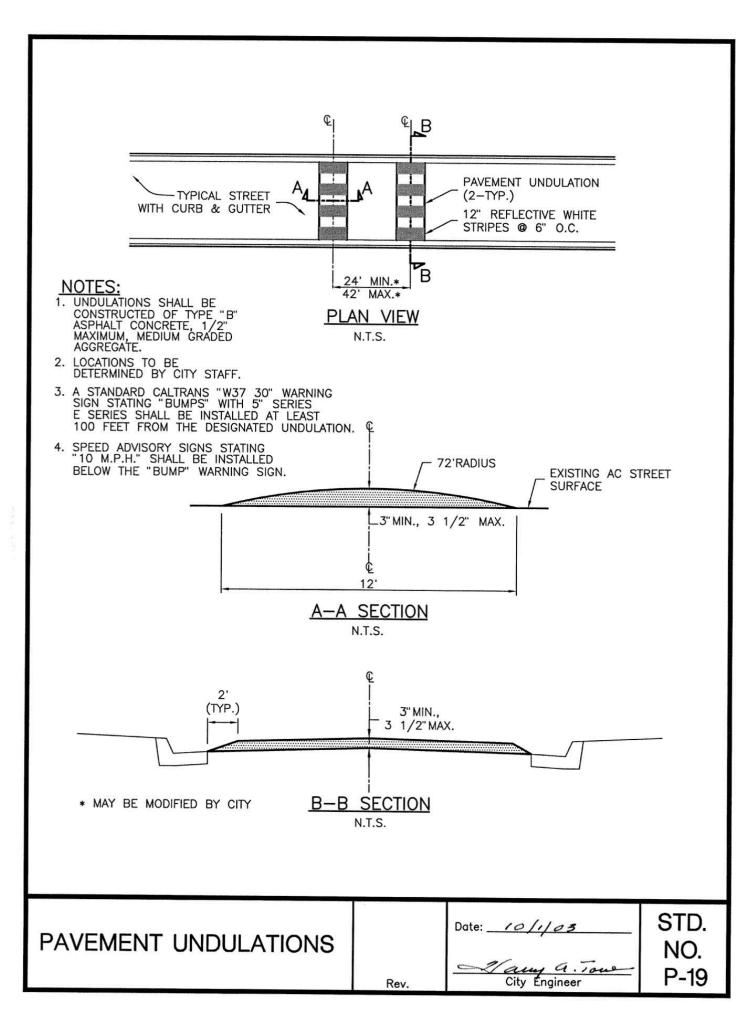
THE CROSS SLOPE FROM THE EXISTING EDGE OF PAVEMENT TO THE PROPOSED LIP OF GUTTER, AND THE OVERALL CROSS SLOPE FROM THE CENTERLINE OF THE ROAD TO THE PROPOSED LIP OF GUTTER, SHALL BE WITHIN THE LIMITS SHOWN ON STANDARD DRAWING

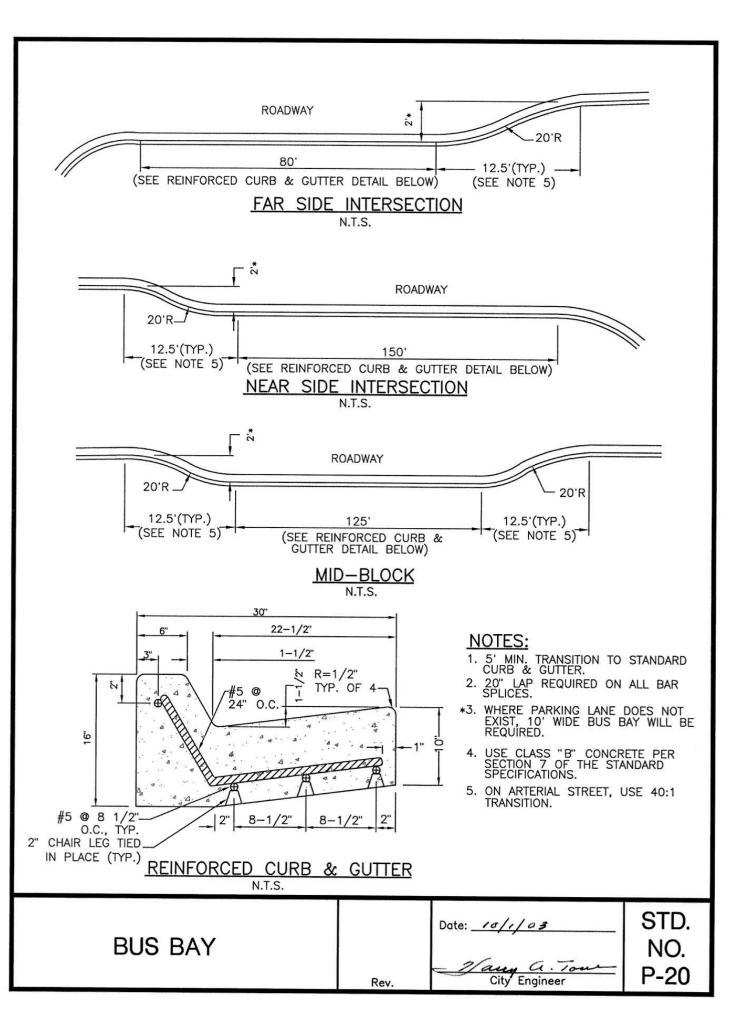
CONDITION 2:

THE STRUCTURAL SECTION OF THE EXISTING PAVEMENT MUST BE ADEQUATE FOR THE TRAFFIC INDEX SHOWN ON STANDARD DRAWING P-12 FOR THE ROAD'S OFFICIAL DESIGNATION AS DETERMINED BY THE COMMUNITY DEVELOPMENT DIRECTOR OR SUCH GREATER T.I. AS INDICATED BY A TRAFFIC STUDY.

IMPROVEMENTS REQUIRED		Date: 10/1/03	STD.
ON EXISTING CITY-			NO.
MAINTAINED STREETS	Rev.	City Engineer	P-17

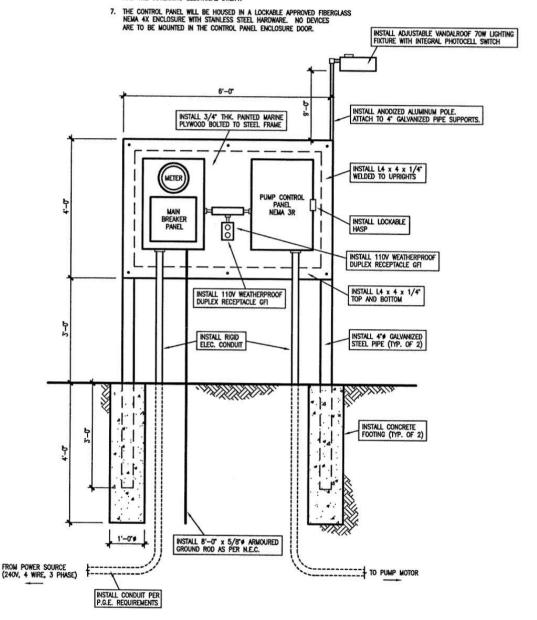






CONTROL PANEL NOTES:

- ALL EXPOSED CONDUIT TO BE GRC. ALL UNDERGROUND CONDUIT TO BE PVC SCH. 40. ALL FLEXIBLE CONDUIT TO BE "SEAL—TITE" FLEX.
- 2. ALL WIRE SHALL BE TYPE THWN COPPER.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL HOOK—UPS AND OPERATIONAL TEST OF ENTIRE SYSTEM.
- 4. CONTRACTOR TO COORDINATE HIS WORK WITH P.G.& E. AND PAY FOR ALL PERMITS.
- 5. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, SOUTHERN CALIFORNIA EDISON CO. AND OTHER APPLICABLE STATE AND LOCAL LAWS, ORDINANCES AND REGULATIONS.
- ENTIRE ELECTRICAL SYSTEM TO BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (CURRENT EDITION) AND THE GOVERNING ELECTRICAL UTILITY.



CONTROL PANEL

No Scale

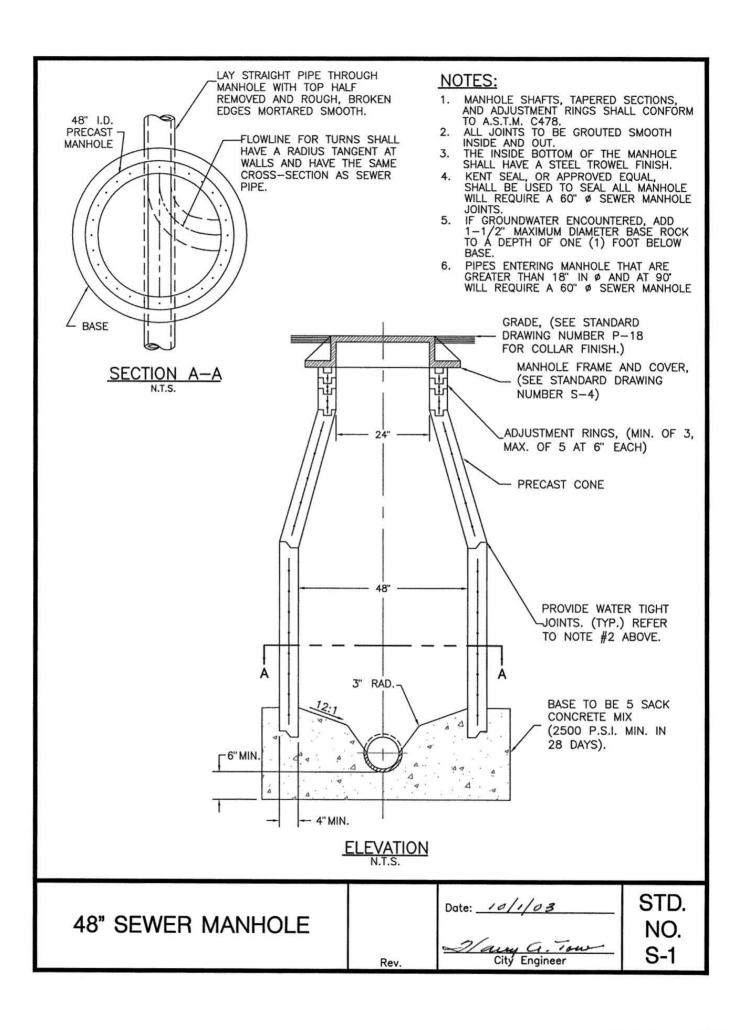
Date: 10/1/03

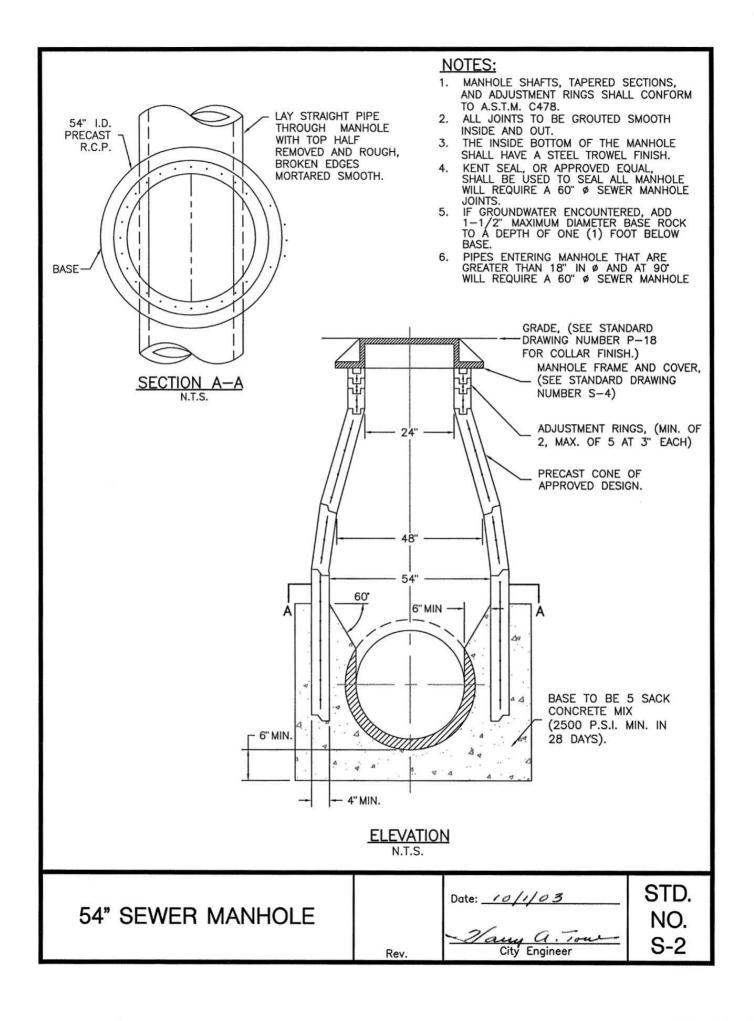
STD. NO.

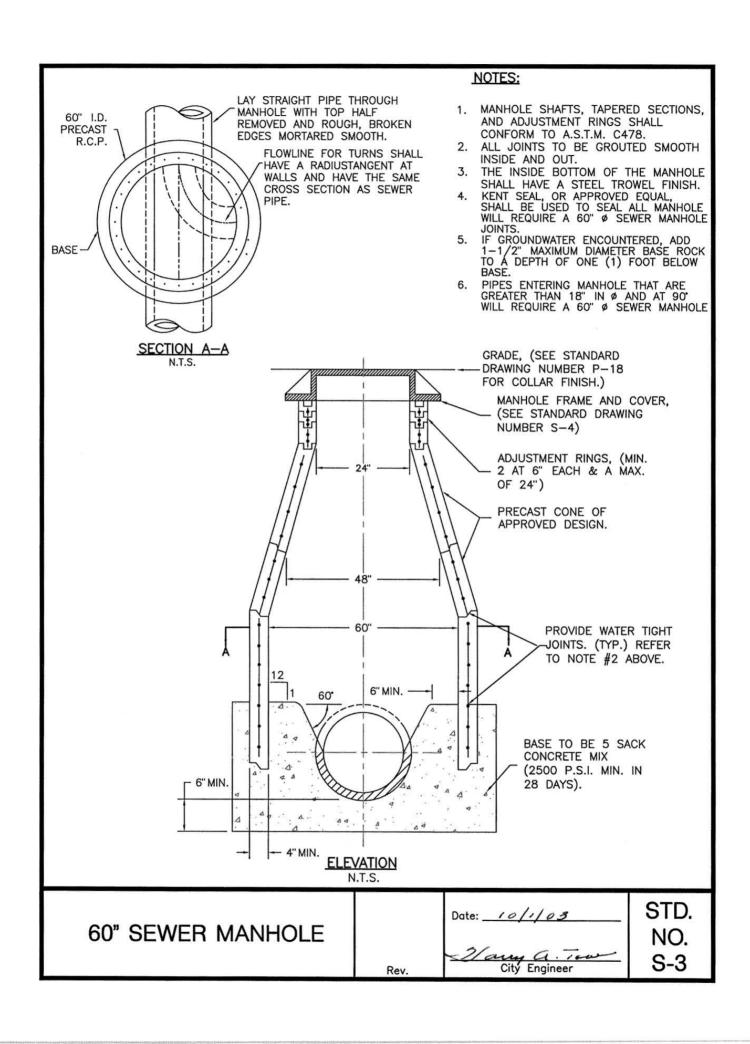
Rev.

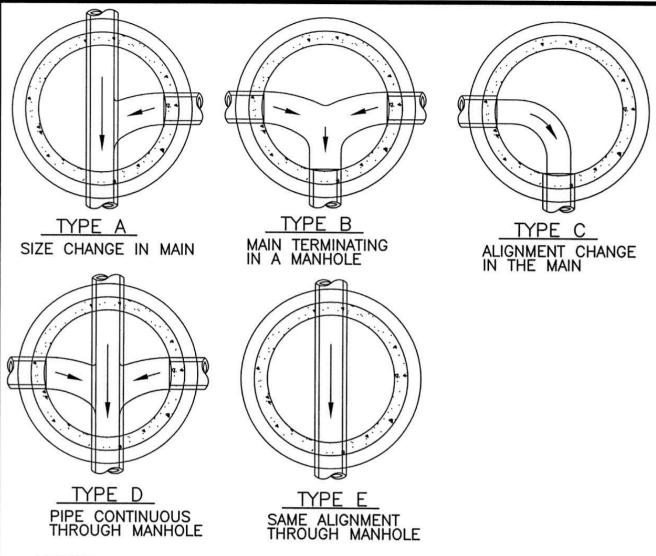
City Engineer

P-21





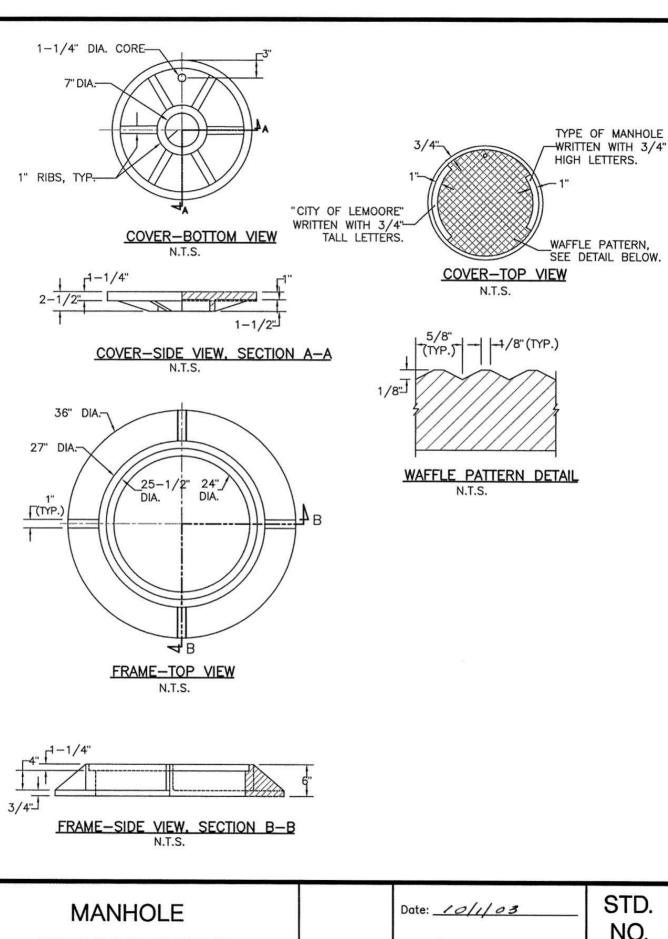




- 1. PIPE (C-900 OR SDR-35) THROUGH MANHOLE REQUIRES AN APPROVED WATER STOP.
- 2. TERMINATING PIPES EXTEND INTO MANHOLE A MAX. 1".
- 3. THE TOP HALF OF ALL PIPE WITHIN THE MANHOLE IS TO BE CUT AWAY. COVER THE CUT EDGES WITH MORTAR.
- 4. PREPARE A SMOOTH TROWELED CONCRETE CHANNEL HAVING UNIFORM GRADIENT BETWEEN PIPE INVERTS.
- 5. EXTEND THE CHANNEL WALLS UP TO SAME HEIGHT WITH TOP OF THE PIPE.
- 6. HAND TAMP 9" OF SAND OR APPROVED BACKFILL MATERIAL UNDER ALL PIPING COMING OUT OF THE MANHOLE UP TO THE FIRST JOINT.
- 7. THE BREADTH OF THE CHANNEL AT EACH JUNCTION MUST ALWAYS BE AS GREAT AS THE CHANNEL RADIUS OF THE CONNECTED PIPE.
- 8. SLOPE THE BENCHING UP TOWARDS THE MANHOLE WALL AS INDICATED IN THE MANHOLE SECTION. TROWEL THE SURFACE SMOOTH.
- 9. ON A STANDARD MANHOLE, INCOMING NON-STRAIGHT LINES SHALL HAVE AN INVERT THAT IS AT LEAST 1" HIGHER THAN THE OUT-GOING LINE, UNLESS OTHERWISE APPROVED.
- 10. MAXIMUM OF 3 INLET PIPES INTO MANHOLE.

FLOW CHANNELS FOR STANDARD SANITARY SEWER MANHOLES

Date: 10/1/03 STD. NO. S-3A



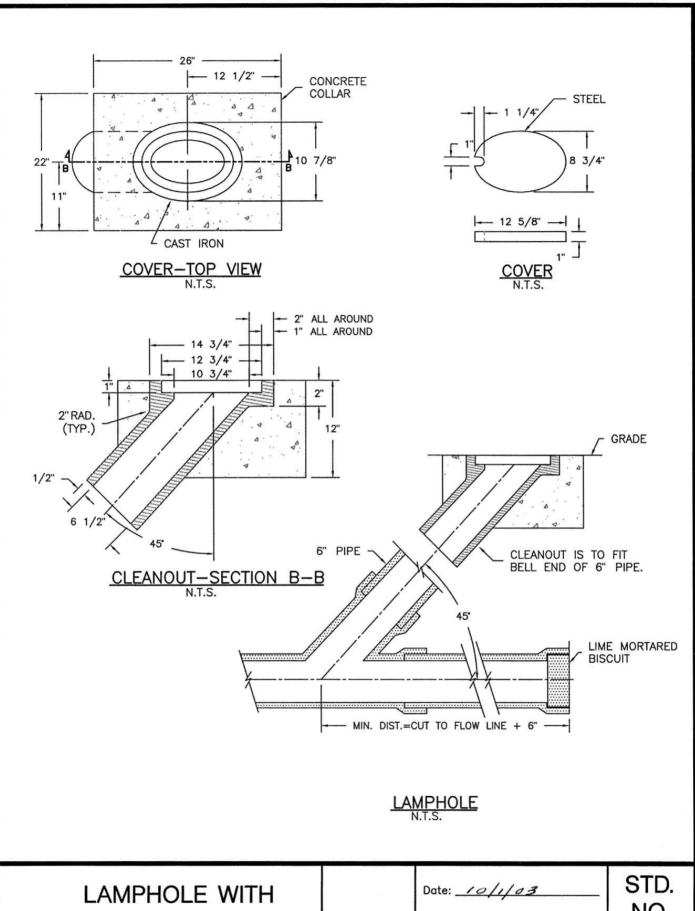
MANHOLE
FRAME & COVER

Rev.

Date: 10|1|

| 10|1|

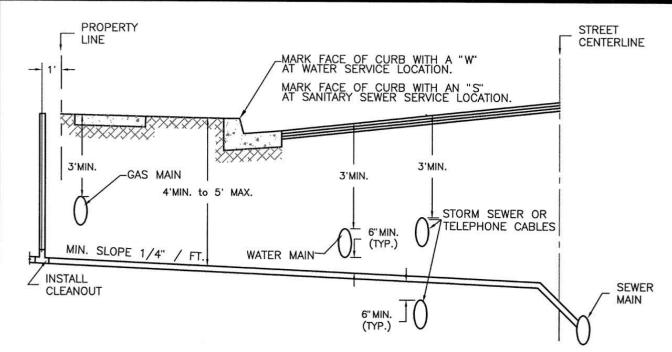
Z/au a. Tow City Engineer NO. S-4



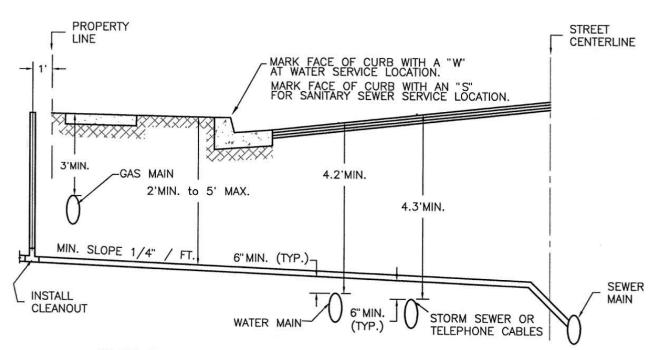
LAMPHOLE WITH CLEANOUT & COVER

City Engineer

NO. S-5



CASE I: SEWER LATERALS PRECEDE WATER & GAS MAINS



CASE II: WATER & GAS MAINS PRECEDE SEWER LATERALS

NOTE:

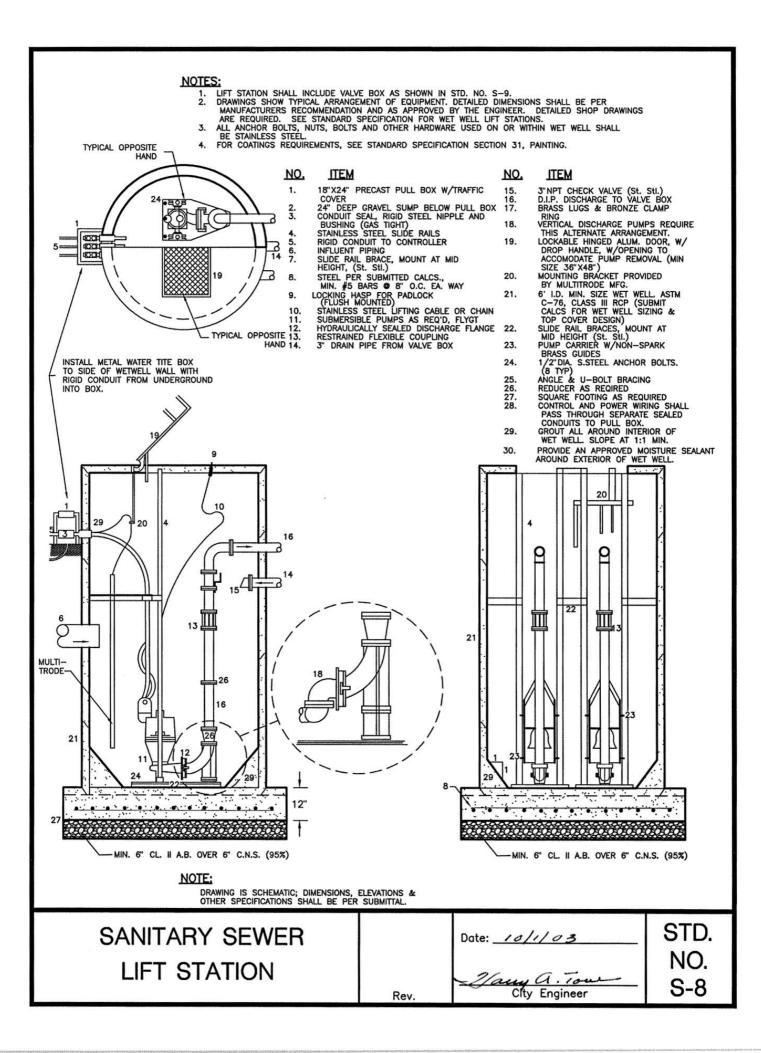
- 1. SEE STD. DWG. M-9 FOR LOCATION OF UTILITY LINES HORIZONTALLY IN THE STREET RIGHT-OF-WAY.
- 2. WATER SERVICES SHALL BE PLACED 2.0' FROM INTERIOR PROPERTY LINES.
- 3. SANITARY SEWER SERVICES SHALL BE PLACED CENTER OF LOT.
- 4. THERE SHALL BE A 10' MINIMUM SEPARATION BETWEEN WATER AND SANITARY SEWER MAINS AND SERVICES.
- 5. WHERE PRACTICAL, LOCATE UTILITY BOXES AT ALTERNATE LOT LINES FROM WATER METER BOXES AND AVOID CONFLICTS WITH DRIVEWAY LOCATIONS.

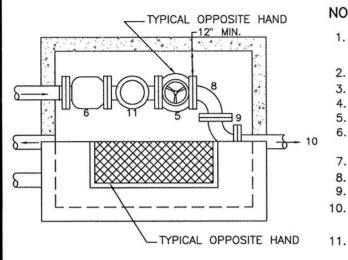
SEWER LATERALS

Date: 10/1/03 STD.

NO.

Sev. City Engineer S-6



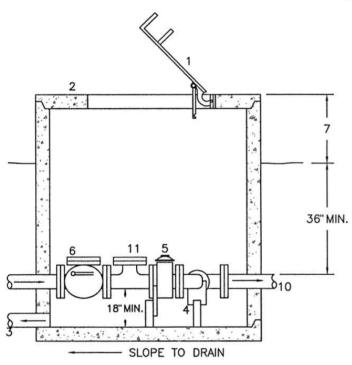


NO. **ITEM**

- LOCKABLE ALUMINUM DOOR, W/ DROP 1. HANDLE, NOMINAL OPENING 36" x 30" MIN.
- 2. LOCKING HASP FOR PADLOCK (FLUSH MOUNTED).
- 3. 3" DRAIN PIPE TO WET WELL.
- PIPE SUPPORTS AS REQUIRED (SUBMIT DETAILS).

9

- CHECK VALVE, SWING TYPE, LEVER & WEIGHT OPERATED.
- 7. 0"-6" DEPENDING ON LOCATION.
- CAST IRON ELBOW. 8.
 - CAST IRON TEE.
- 10. DUCTILE IRON PIPE TO EXTEND A MIN. OF 24" BEYOND OUTSIDE WALL OF VAULT.
 - TEE WITH BLANK FLANGE FOR PORTABLE PUMP HOOK-UP.



NOTES:

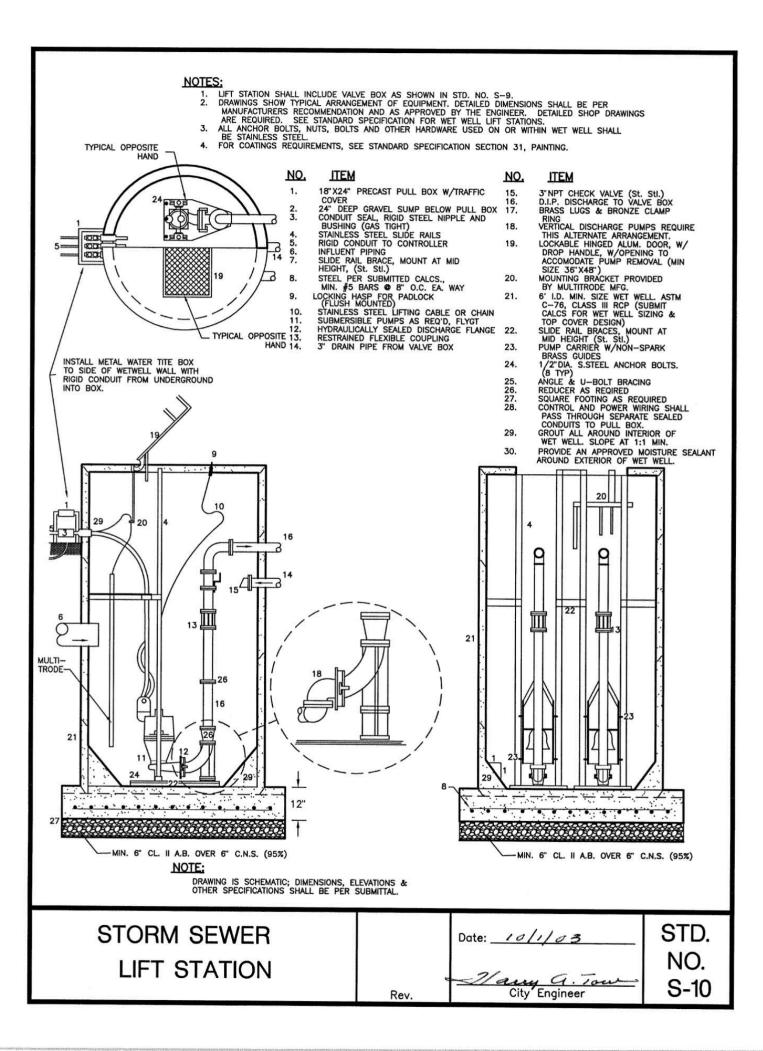
- VALVE BOX FOR 8" FITTINGS SHALL BE A NOMINAL 5'-0" x 8'-0" PRECAST CONCRETE VAULT, QUICKSET SERIES 450 OR APPROVED EQUAL, WITH LOCKABLE HINGED ALUMINUM DOORS (ALL JOINTS WATERTIGHT). VALVE BOX FOR 10" FITTINGS SHALL BE A NOMINAL 6'-0"x 9'-0" PRECAST CONCRETE VAULT, QUICKSET OR APPROVED EQUAL, WITH LOCKABLE HINGED ALUMINUM DOORS (ALL JOINTS WATERTIGHT). VALVE BOX FOR 12" FITTINGS SHALL BE A NOMINAL 7'-0"x 10'-0" PRECAST CONCRETE VAULT, QUICKSET OR APPROVED EQUAL, WITH LOCKABLE HINGED ALUMINUM DOORS (ALL JOINTS WATERTIGHT).
- DRAWINGS SHOW TYPICAL ARRANGEMENT OF EQUIPMENT. DETAILED DIMENSIONS SHALL BE PER MANUFACTURER'S RECOMMENDATION AND AS APPROVED BY THE ENGINEER. DETAILED SHOP DRAWINGS ARE REQUIRED.
- 3. SEE SECTION 31 OF THE STANDARD SPECIFICATIONS FOR PAINTING AND FOR REQUIRED COATINGS.
- ALL FITTINGS WITHIN VAULT TO BE FLANGED CONNECTIONS, SIZE AS REQUIRED, WITH CEMENT MORTAR LINING.

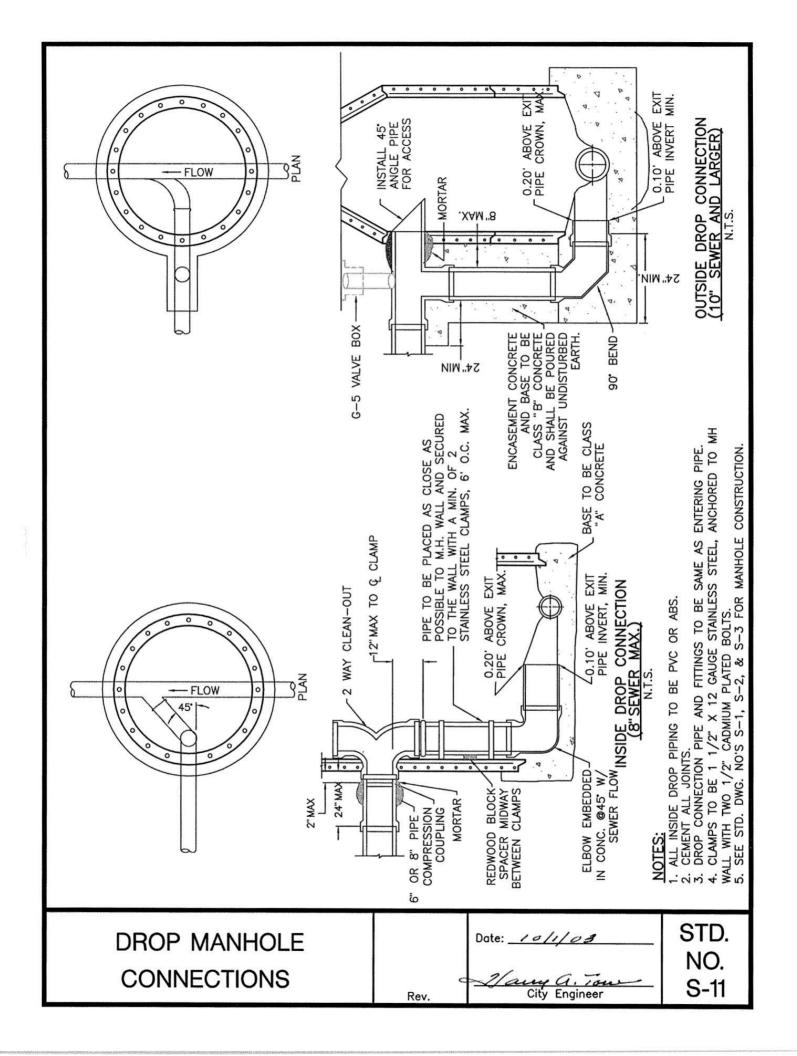
LIFT STATION VALVE BOX

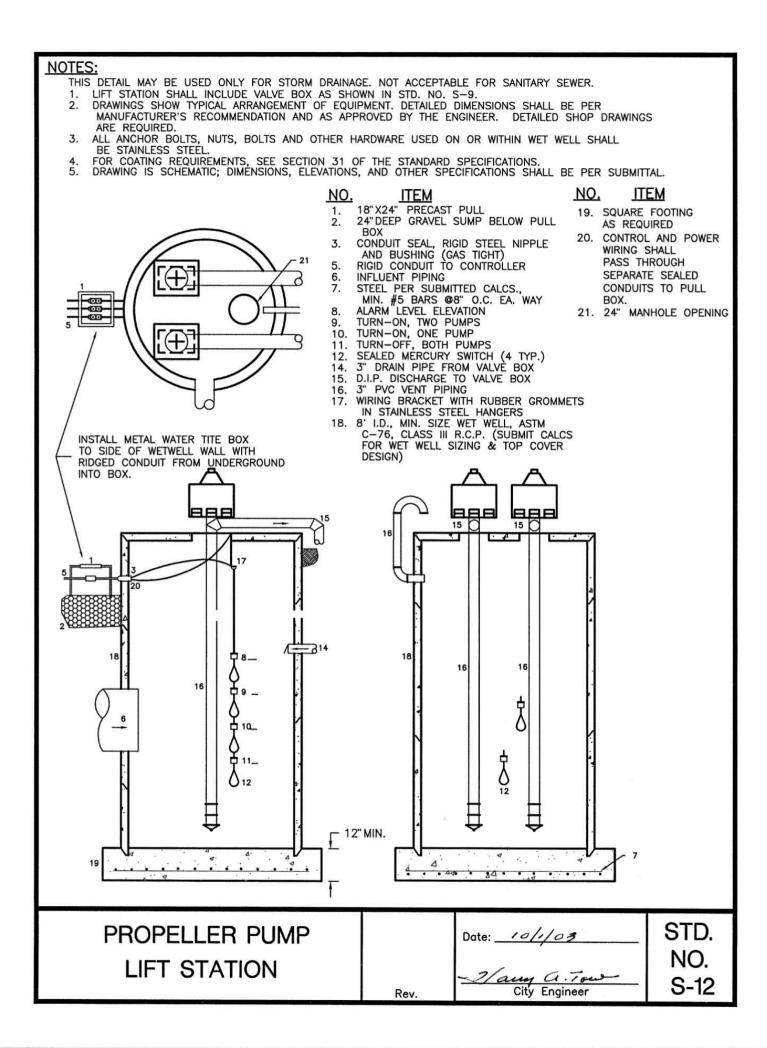
any a.ion City Engineer

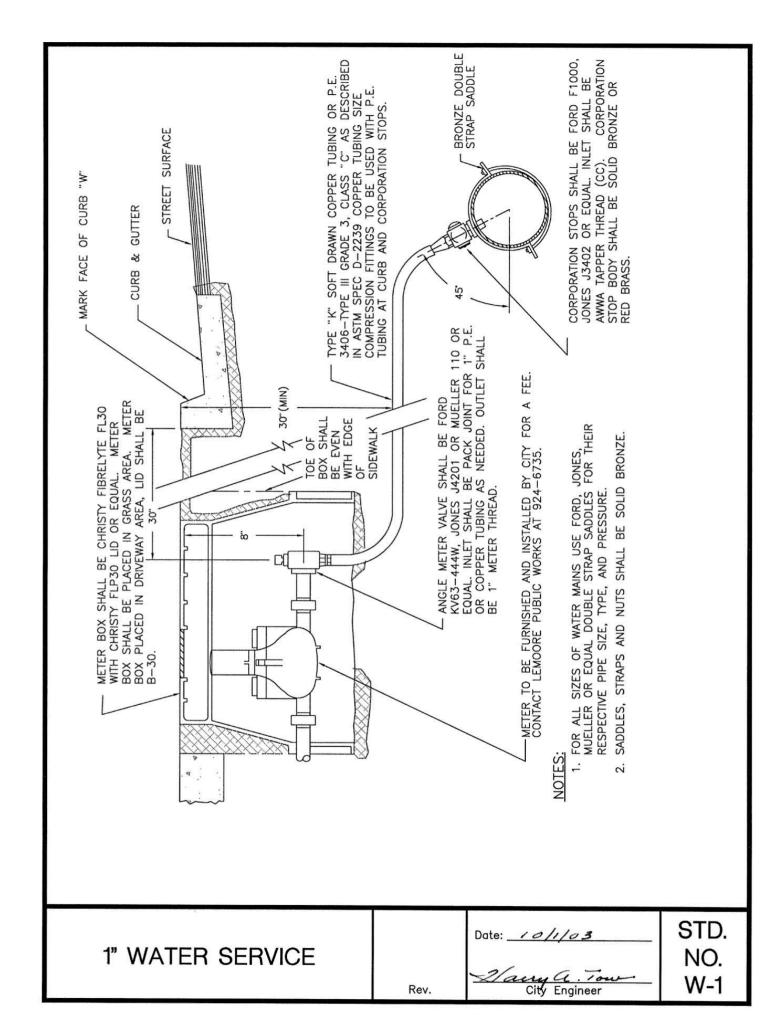
Date: 10/1/03

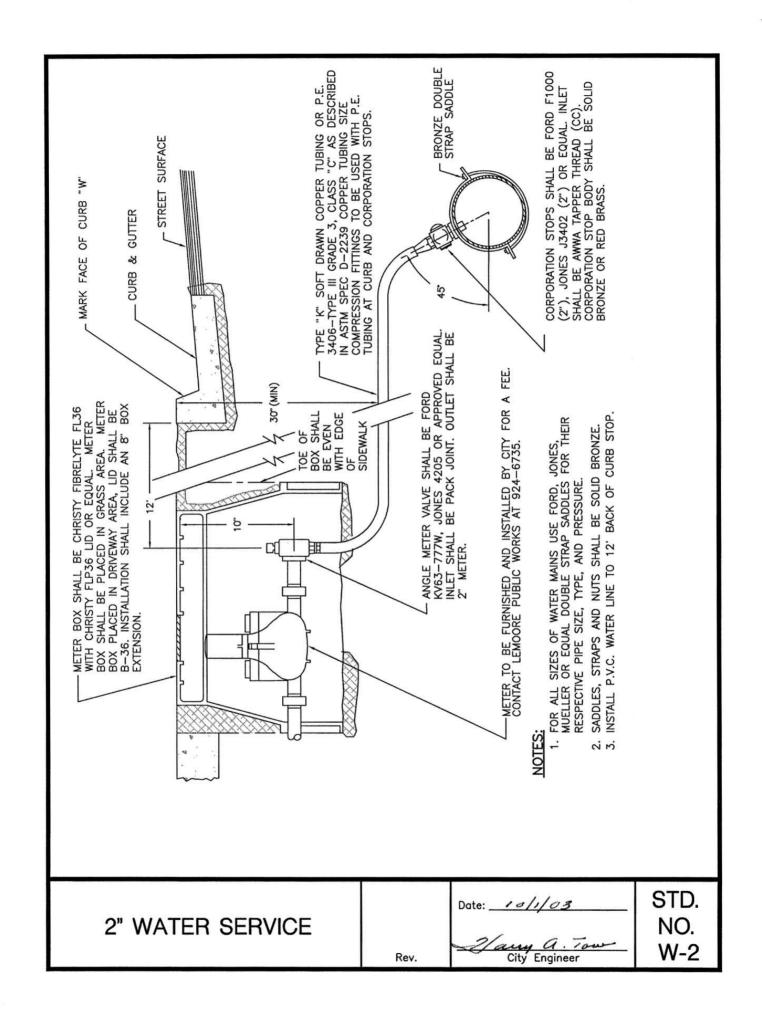
STD. NO. S-9

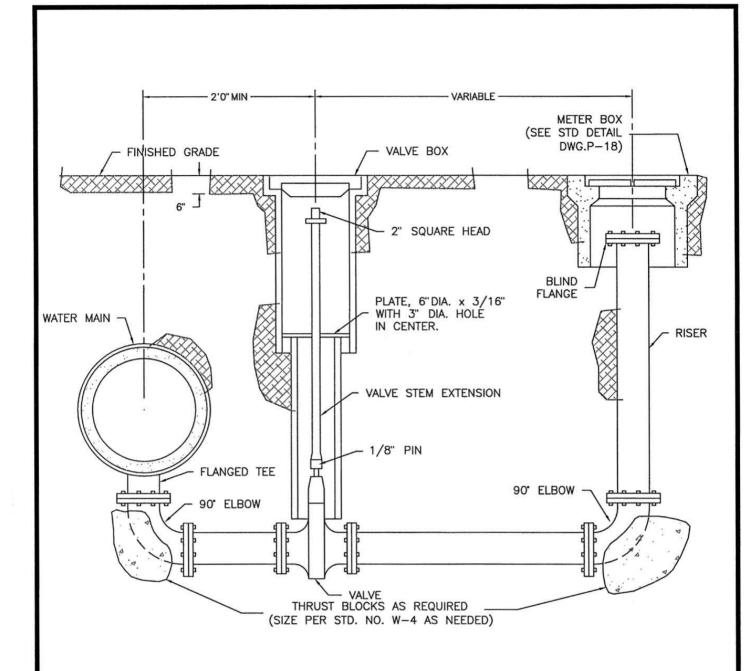












BLOW-OFF	SCHEDULE
MAIN SIZE	BLOW-OFF SIZE
8" 10" 12" 14"	

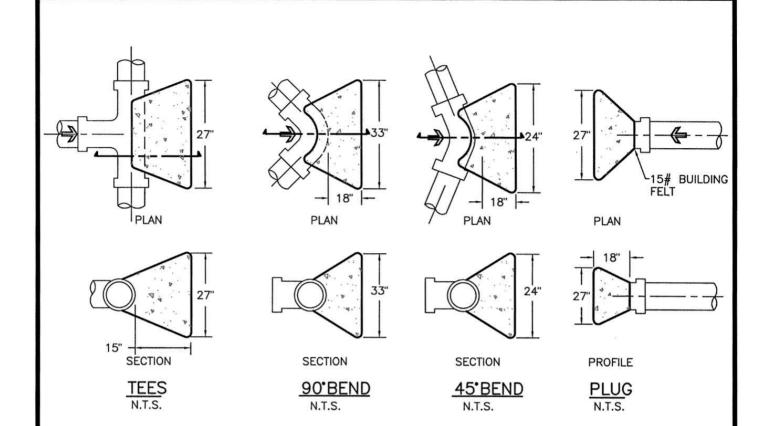
- ALL FITTINGS SHALL BE SECURED WITH RETAINING GLANDS OR TIE-RODS WHERE APPLICABLE.
- 2. STEEL PIPE SHALL BE WRAPPED PER THE STANDARD SPECIFICATION FOR STEEL WATER PIPE.
- VALVE AND METER BOXES SHALL BE FINISHED TO GRADE PER STANDARD DRAWING NO. S-7.

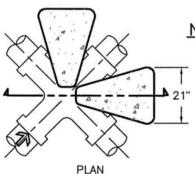
PERMANENT BLOW-OFF

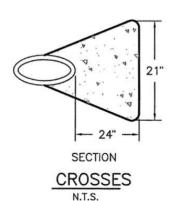
Date: 10/1/03

Navy G. Tow
City Engineer

STD. NO. W-3



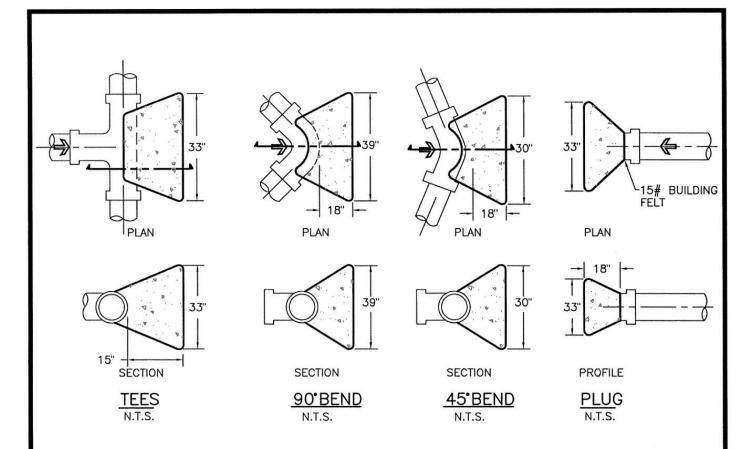


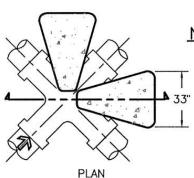


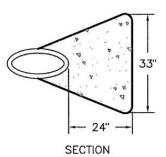
- 1.
- CAST ALL THRUST BLOCKS AGAINST UNDISTURBED SOIL.
 THE MINIMUM THICKNESS BETWEEN FITTING AND SOIL
 SHALL BE 12".
 ALL THRUST BLOCK DIMENSIONS SHOWN ARE FOR AN 8"
 PIPE OR SMALLER. SEE W-4A AND W-4B FOR 10" AND
 12" PIPE. LARGER DIAMETERS OF PIPE REQUIRE
 DESIGN OF THRUST BLOCKS AND SUBMITTAL TO CITY 2. ENGINEER FOR APPROVAL ASSUMING SOIL BEARING =1000 PSF & PRESSURE=100 PSI
- 3. CONCRETE SHALL BE CLASS "B" PER SECTION 7 OF THE STANDARD SPECIFICATIONS.
- INDICATES THRUST DIRECTION. 4. WHERE THRUST DIRECTION DIFFERS, ALTERNATE THRUST BLOCK DESIGN WILL BE REQUIRED.
- PROJECT ENGINEER MAY SUBMIT SOILS REPORT AND CALCULATIONS TO JUSTIFY LESSER THRUST BLOCKS. USE 150 PSI FOR DESIGN.
- RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS. SUBMIT TO CITY PRIOR TO CONSTRUCTION. NTS=NOT TO SCALE
- 7.

THRUST BLOCKS 8" PIPE

Date: 10/1/03 City Engineer STD. NO. W-4







CROSSES N.T.S.

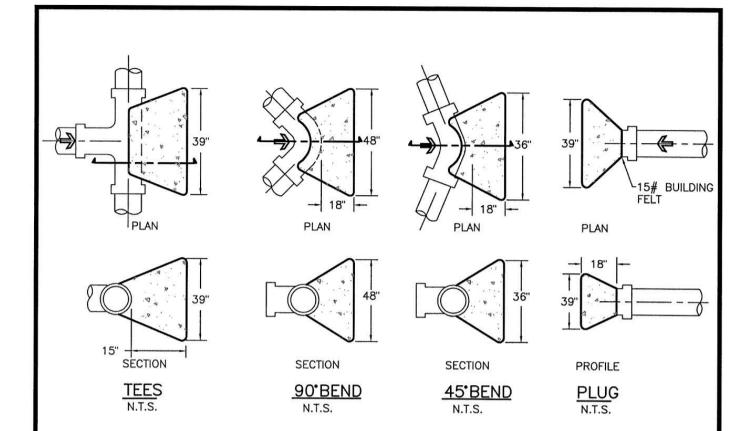
NOTES:

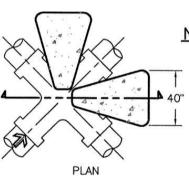
- CAST ALL THRUST BLOCKS AGAINST UNDISTURBED SOIL. 1. THE MINIMUM THICKNESS BETWEEN FITTING AND SOIL SHALL BE 12".
- 2. ALL THRUST BLOCK DIMENSIONS SHOWN ARE FOR AN 8" PIPE OR SMALLER. SEE W-4A AND W-4B FOR 10" AND 12" PIPE. LARGER DIAMETERS OF PIPE REQUIRE DESIGN OF THRUST BLOCKS AND SUBMITTAL TO CITY ENGINEER FOR APPROVAL ASSUMING SOIL BEARING =1000 PSF & PRESSURE=100 PSI
- CONCRETE SHALL BE CLASS "B" PER SECTION 7 OF THE STANDARD SPECIFICATIONS. 3.
- INDICATES THRUST DIRECTION. WHERE THRUST DIRECTION DIFFERS, ALTERNATE THRUST BLOCK 4.
- DESIGN WILL BE REQUIRED.
 PROJECT ENGINEER MAY SUBMIT SOILS REPORT AND CALCULATIONS TO JUSTIFY LESSER THRUST BLOCKS. USE 150 PSI FOR DESIGN.
- RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS. SUBMIT TO CITY PRIOR TO CONSTRUCTION. NTS=NOT TO SCALE

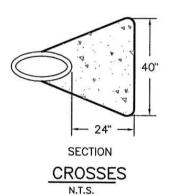
THRUST BLOCKS 10" PIPE

Date: 10/1/03 2/any a. 100 City Engineer

STD. NO. W-4/







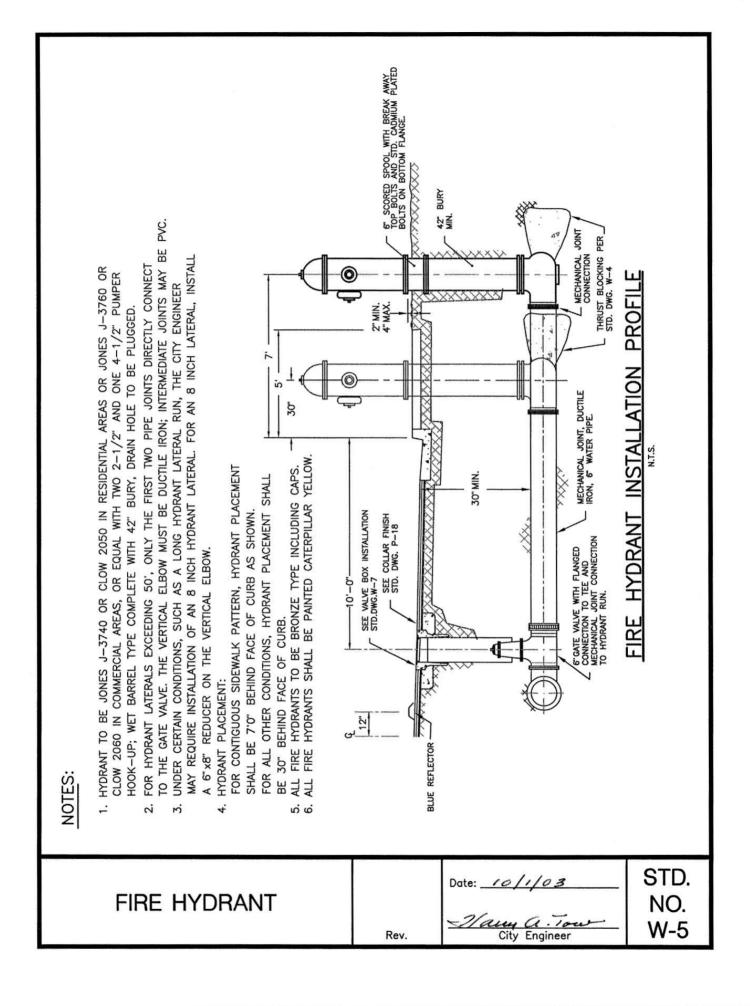
- 1.
- CAST ALL THRUST BLOCKS AGAINST UNDISTURBED SOIL.
 THE MINIMUM THICKNESS BETWEEN FITTING AND SOIL
 SHALL BE 12".
 ALL THRUST BLOCK DIMENSIONS SHOWN ARE FOR AN 8"
 PIPE OR SMALLER. SEE W-4A AND W-4B FOR 10" AND
 12" PIPE. LARGER DIAMETERS OF PIPE REQUIRE
 DESIGN OF THRUST BLOCKS AND SLIBMITTAL TO CITY 2. DESIGN OF THRUST BLOCKS AND SUBMITTAL TO CITY ENGINEER FOR APPROVAL ASSUMING SOIL BEARING =1000 PSF & PRESSURE=100 PSI
- CONCRETE SHALL BE CLASS "B" PER SECTION 7 OF THE 3. STANDARD SPECIFICATIONS.

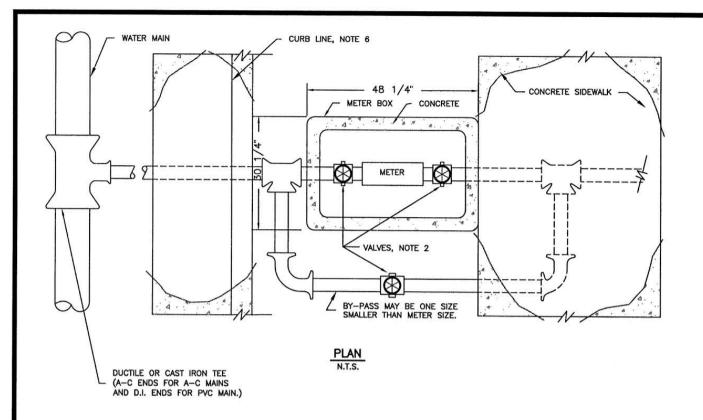
 NDICATES THRUST OF
- INDICATES THRUST DIRECTION. WHERE THRUST DIRECTION DIFFERS, ALTERNATE THRUST BLOCK DESIGN WILL BE REQUIRED.

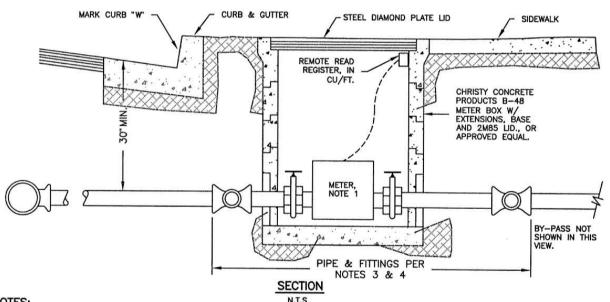
 PROJECT ENGINEER MAY SUBMIT SOILS REPORT AND CALCULATIONS TO JUSTIFY LESSER THRUST BLOCKS. 4.
- USE 150 PSI FOR DESIGN.
- RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS. SUBMIT TO CITY PRIOR TO CONSTRUCTION. NTS=NOT TO SCALE
- 7.

THRUST BLOCKS **12" PIPE**

Date: 10/1/03 City Engineer STD. NO. W-4B







Rev.

NOTES:

- METER TO BE EITHER CENSUS METER OR MASTER METER WITH CENSUS PROTOCOL TOUCHREAD TECHNOLOGY, OR EQUAL WITH REMOTE READ REGISTER.

 2. VALVES SHALL BE PER "STANDARD SPECIFICATIONS FOR GATE VALVE ASSEMBLIES" AND SHALL HAVE A RESILIENT SEAT OR WEDGE.

 3. ALL TEES AND ELBOWS WITHIN THE LIMITS SHOWN SHALL BE CAST OR DUCTILE IRON WITH THREADED OR BOLTED FLANGE CONNECTIONS. WRAP FITTING PER NOTE 4.

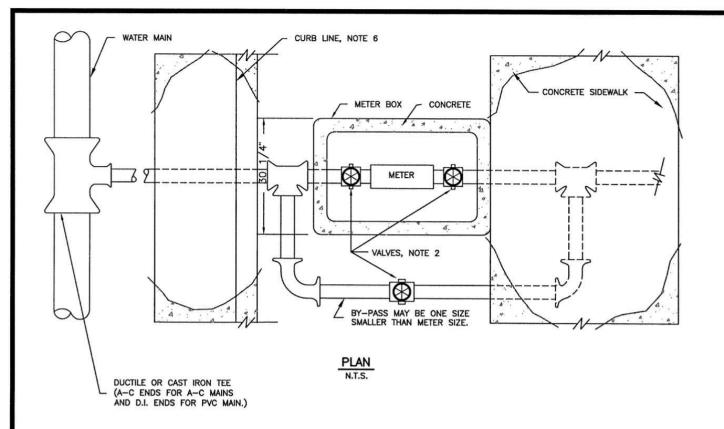
 ALL PIDING WITHIN THE LIMITS SHOWN SHALL BE DUCTIE IRON AND
- 4. ALL PIPING WITHIN THE LIMITS SHOWN SHALL BE DUCTILE IRON AND CI/DI FITTINGS SHALL BE WRAPPED PER "STD. SPECS. FOR PLASTIC FILM WRAP OF VALVES, BOLTED FLANGES AND OTHER BOLTED
- 5. IN CASES WHERE SIDEWALK AND CURB ARE ADJACENT, ASSUME THE BACK OF SIDEWALK TO BE BACK OF CURB AS SHOWN ON DRAWING.
- 6. 2" METER WILL BE SUPPLIED BY CITY. METER SPECS MUST BE APPROVED BY CITY REP. BEFORE INSTALLATION.

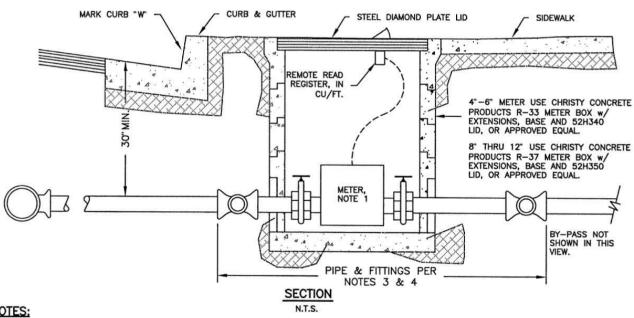
SERVICE CONNECTION 2" METER BOX INSTALLATION

Date: 10/1/03 any a City Engineer STD.

NO.

W-6





- NOTES:

- METER TO BE EITHER BADGER SINGLE REGISTER OR NEPTUNE FULL FLOW COMPOUND METER, OR EQUAL WITH REMOTE READ REGISTER.

 VALVES SHALL BE PER "STANDARD SPECIFICATIONS FOR GATE VALVE ASSEMBLIES" AND SHALL HAVE A RESILIENT SEAT OR WEDGE.

 ALL TEES AND ELBOWS WITHIN THE LIMITS SHOWN SHALL BE CAST OR DUCTILE IRON WITH THREADED OR BOLTED FLANGE CONNECTIONS.

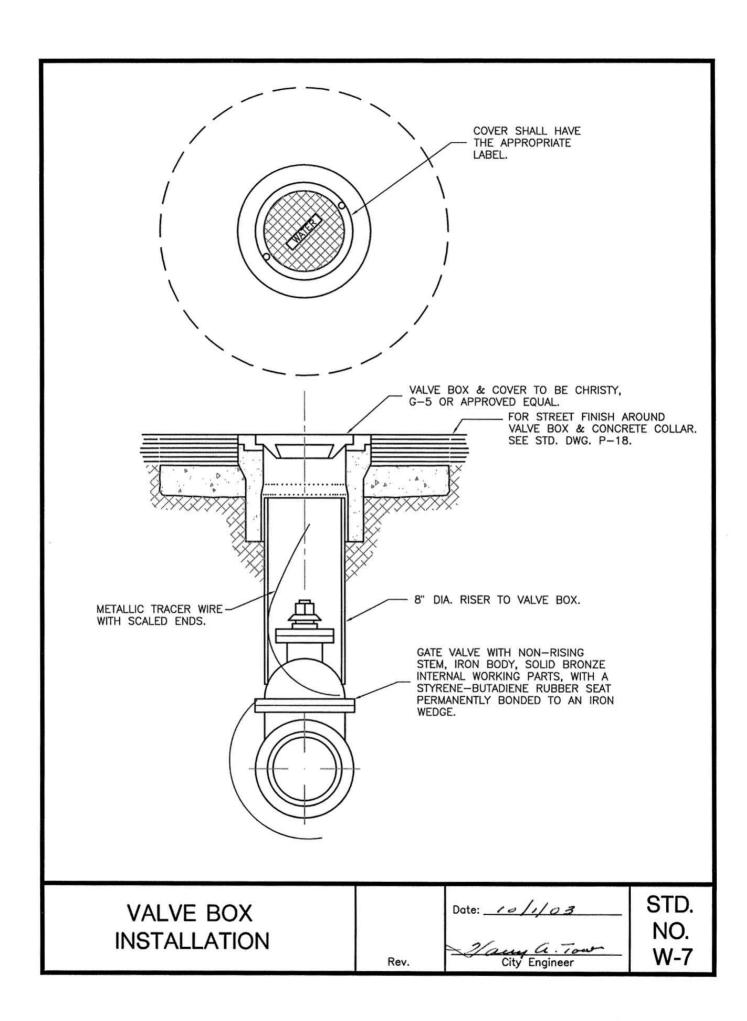
 WRAP FITTING PER NOTE 4.

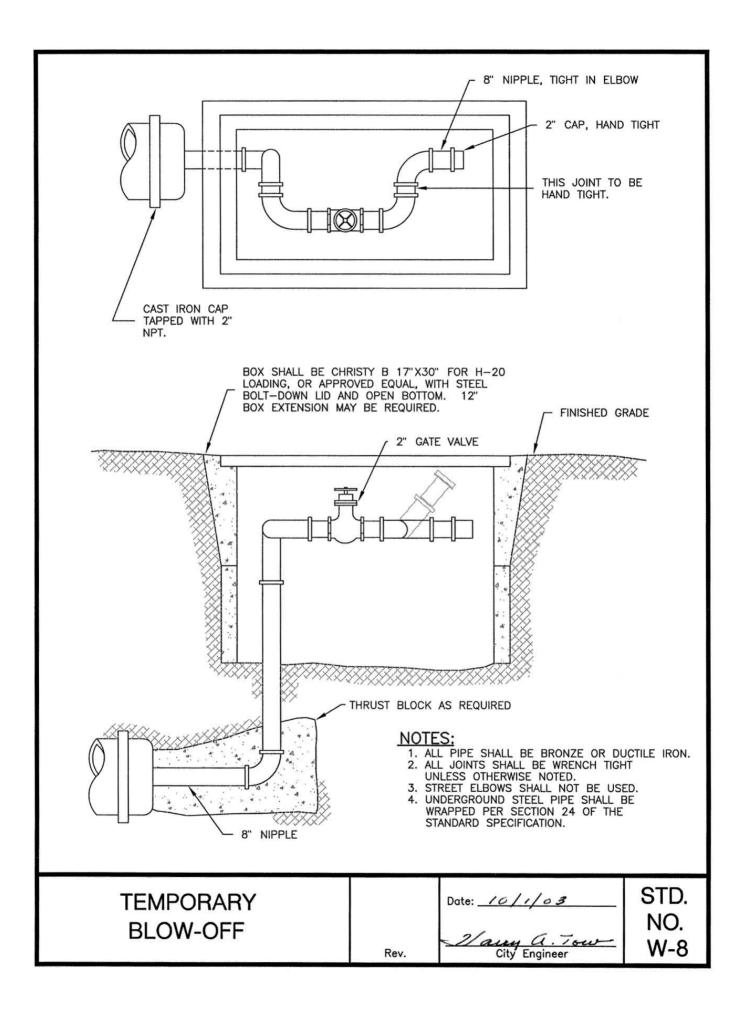
 ALL DIDING WITHIN THE LIMITS SHOWN SHALL BE DUCTILE IRON AND
- 4. ALL PIPING WITHIN THE LIMITS SHOWN SHALL BE DUCTILE IRON AND CI/OI FITTINGS SHALL BE WRAPPED PER "STD. SPECS. FOR PLASTIC FILM WRAP OF VALVES, BOLTED FLANGES AND OTHER BOLTED FITTINGS."
- 5. IN CASES WHERE SIDEWALK AND CURB ARE ADJACENT, ASSUME THE BACK OF SIDEWALK TO BE BACK OF CURB AS SHOWN ON DRAWING.
- 6. METER 4" AND LARGER WILL NOT BE SUPPLIED BY CITY, ALL METERS PROPOSED TO BE INSTALLED IN ANY INSTALLATION, MUST BE APPROVED BY CITY REP. BEFORE INSTALLATION.

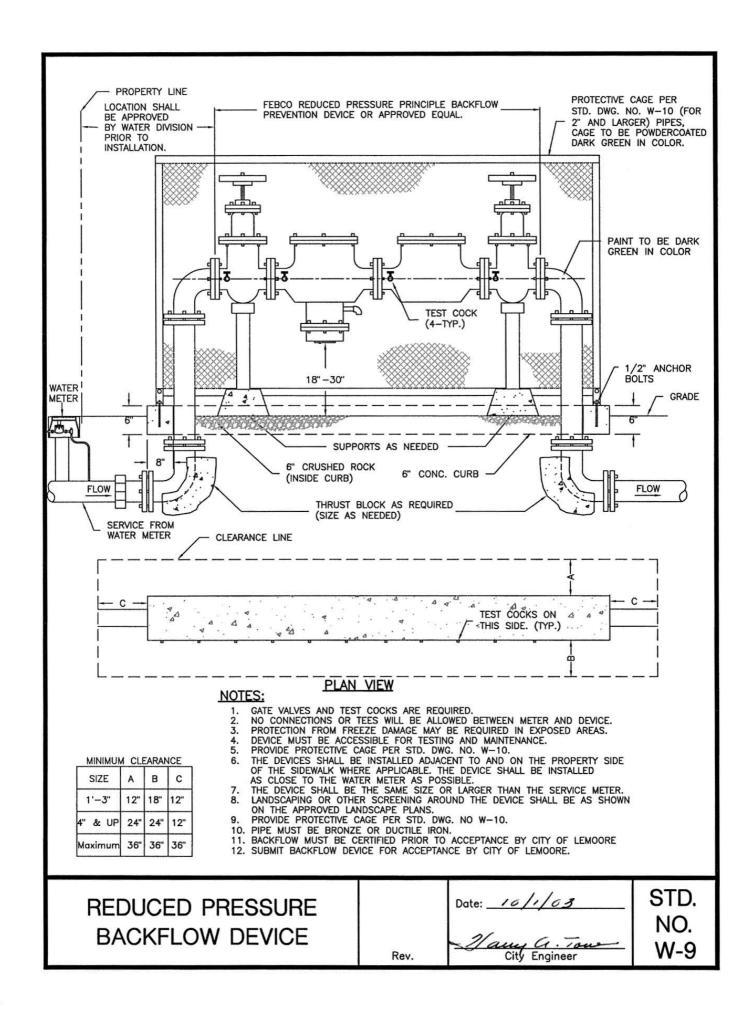
SERVICE CONNECTION 4" AND ABOVE, METER BOX INSTALLATION

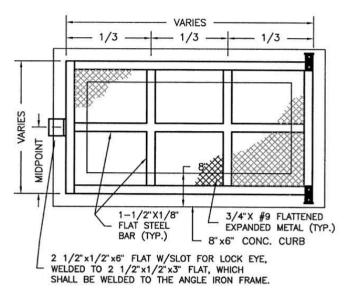
Date: 10/1/03 City Engineer Rev.

STD. NO. W-6A









1. EXPANDED METAL GRATING TO BE WELDED INSIDE STRUCTURAL SUPPORTS EVERY 5" MIN.
2. ALL DIAGONAL & CIRCULAR CUT EXPOSED EDGES SHALL BE BANDED WITH A BAR EQUAL TO THE OVER ALL GRATING THICKNESS AND WELDED AT ALL CONTACT POINTS.
3. HINGE SHALL BE 1/2" GALVANIZED BOLT IN TO THE NUT WELDED INSIDE ENCLOSURE. END OF BOLT SHALL BE ENCLOSURE. END OF BOLT SHALL BE ALTERED TO PREVENT REMOVAL FROM OUTSIDE ENCLOSURE.
4. WELD ALL 1/2" DIA. ROD INTERSECTIONS WITH 3/8" FILLET WELDS. 5. CURB SHALL BE 6" THICK CLASS "A" CONCRETE.
6. ALL PIPING EXTENDING THROUGH CONCRETE CURB SHALL BE WRAPPED WITH 20 MIL. PLUMBERS TAPE.
7. ALL EXPOSED PARTS SHALL BE PRIMERED AND PAINTED WITH RUST PREVENTIVE PAINT.
8. ENCLOSURE DIMENSIONS WILL VARY DEPENDING ON SIZE AND TYPE OF EQUIPMENT.

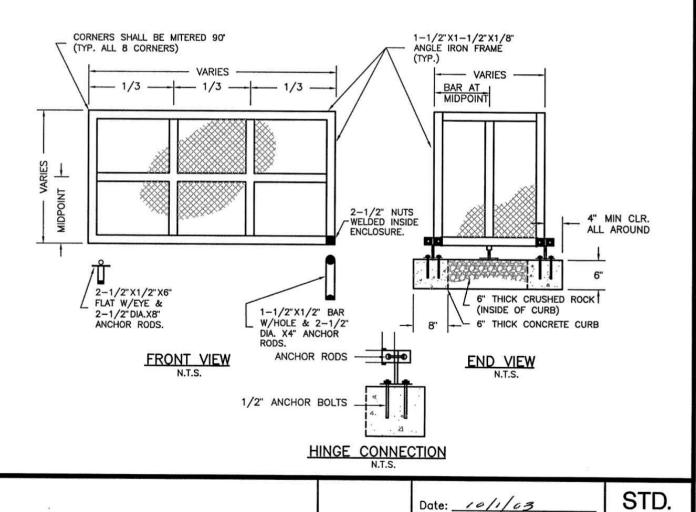
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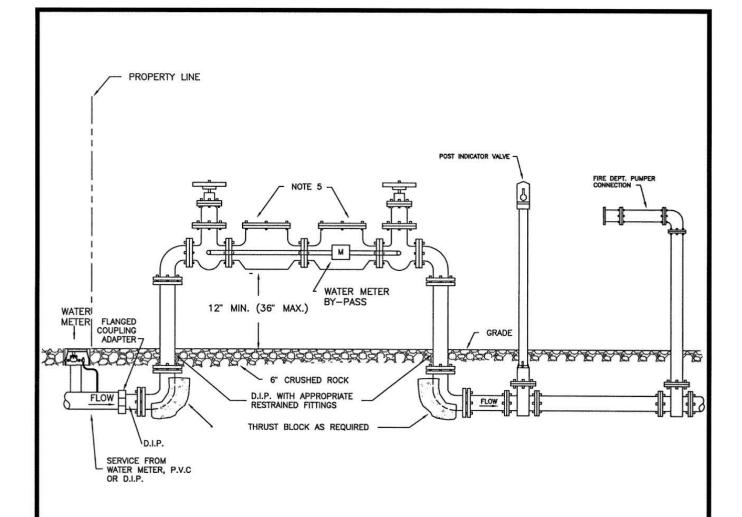
W-10

City Engineer

TOP VIEW

PROTECTIVE CAGE





- BACKFLOW ABOVE GROUND PIPING SHALL BE PAINTED DARK GREEN.
- LOCATION TO BE APPROVED BY THE FIRE DEPARTMENT.
- ALL ABOVE GROUND VALVES AND POST INDICATOR VALVES SHALL BE EQUIPPED WITH TAMPER SWITCH DEVICES AS APPROVED BY THE FIRE DEPARTMENT. COMPLETE INSTALLATION SHALL BE PLUMB AND LEVEL.
- U.S.C. APPROVED DOUBLE DETECTOR CHECK VALVE ASSEMBLY- W/O.S. & Y. GATE VALVE CHAINED IN OPEN POSITION. BYPASS PIPING TO INCLUDE DOUBLE CHECK VALVE AND METER.
- BACKFLOW MUST BE CERTIFIED AFTER INSTALLATION AND A COPY OF THE CERTIFICATE GIVEN TO THE CITY REPRESENTATIVE PRIOR TO ACCEPTANCE BY THE CITY OF LEMOORE.
- 7. VALVES TO BE CHAINED AND LOCK TOGETHER.
- 8. FIRE DEPARTMENT PUMPER CONNECTION SHALL BE MAXIMUM 25' TO FIRE HYDRANT.

(FIRE PROTECTION)
DOUBLE CHECK STD. Date: 10/1/03 NO. **DETECTOR ASSEMBLY** City Engineer W-11 Rev.

