

Providence City Corporation Department of Public Works

STANDARD CONSTRUCTION DRAWINGS



15 South Main Street
Providence, Utah

Document No. 15-001 prepared by
SKYLINE A/E/S, INC.
95 West Golf Course Road, Suite 101
Logan, Utah 84321 - (435) 752-8501

This manual is the official standard for all construction and development projects within Providence City. Any variance from these drawings must be approved in writing by the City Engineer prior to construction.

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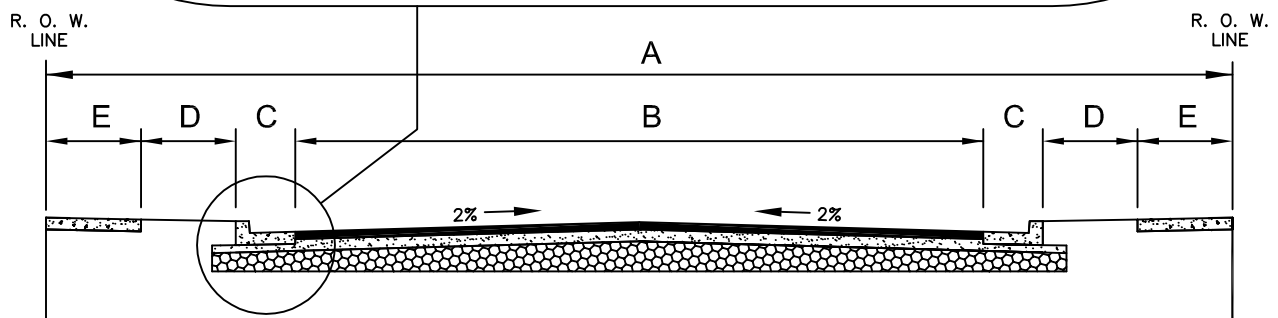
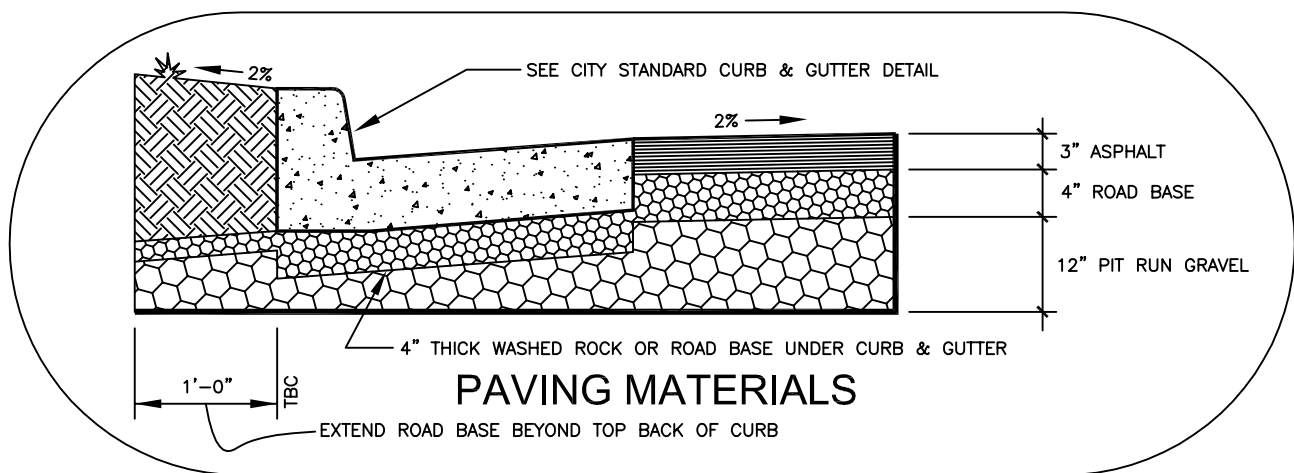
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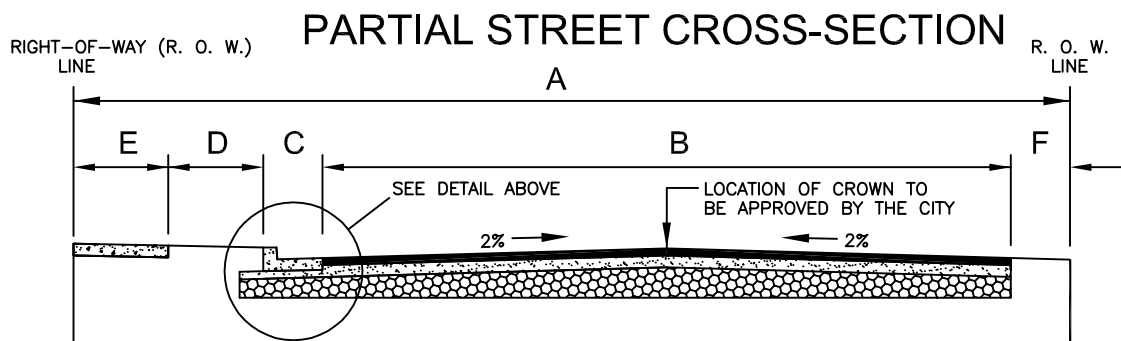
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TYPICAL STREET CROSS-SECTIONS

TYPE of STREET	WIDTHS				
	A RIGHT-OF-WAY	B ASPHALT	C CURB & GUTTER	D PARK STRIP	E SIDEWALK
FEEDER STREET	56'	29'	2.5'	6.0'	5.0'
COLLECTOR STREET	66'	39'	2.5'	6.0'	5.0'
MAJOR STREET	80'	53'	2.5'	6.0'	5.0'



WIDTHS					
A RIGHT-OF-WAY	B ASPHALT	C CURB & GUTTER	D PARK STRIP	E SIDEWALK	F SHOULDER
See note	24' MIN.	2.5'	6.0'	5.0'	See note

NOTE:
WIDTHS "A" & "F" MUST BE APPROVED BY THE CITY PRIOR TO CONSTRUCTION.

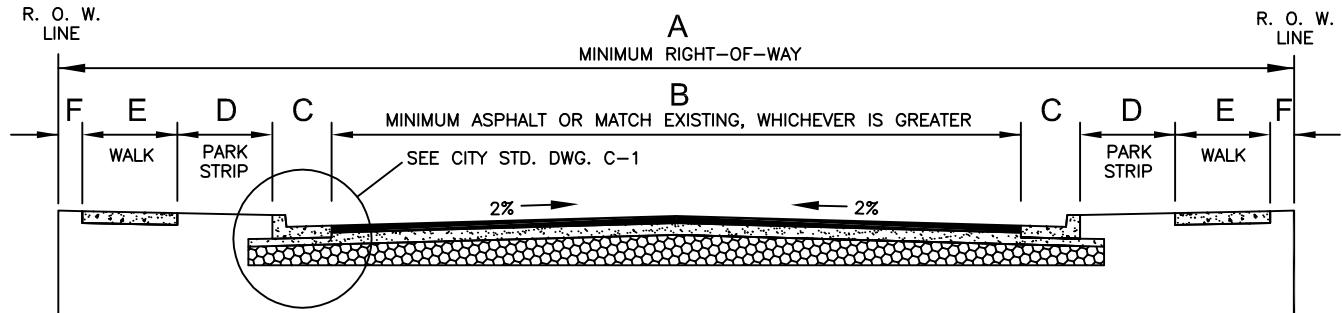
Providence City Public
Works Department

Street
Cross-Sections

DRAWING NO. C-1

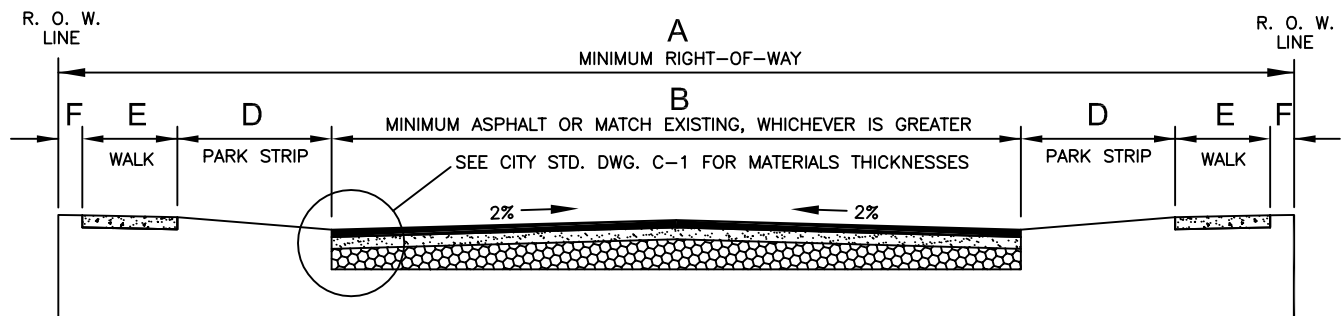
REVISED 07-06-07

FOR THE CONSTRUCTION OF DOWNTOWN STREET IMPROVEMENTS AFTER DECEMBER 16, 2009



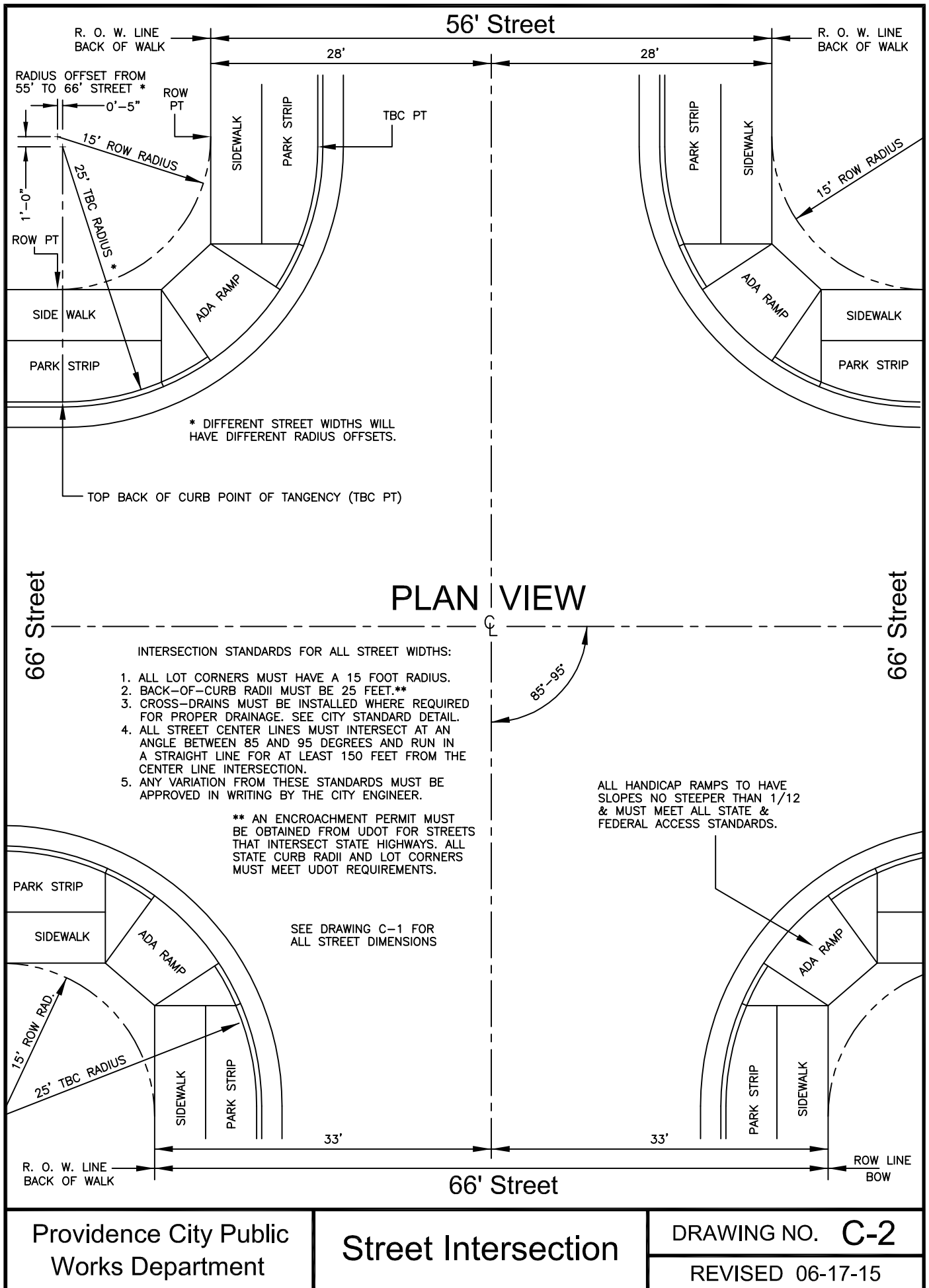
STREETS REQUIRING NEW CURB & GUTTER

STREET	EXTENT		WIDTHS					
	FROM	TO	A R. O. W.	B ASPHALT	C CURB & GUTTER	D PARK STRIP	E SIDEWALK	F BOW to ROW
200 NORTH	100 W.	400 E.	66'	39'	2.5'	VARIES	5.0'	VARIES
100 NORTH	200 W.	400 E.	66'	39'	2.5'	VARIES	5.0'	VARIES
CENTER ST.	200 W.	400 E.	66'	39'	2.5'	VARIES	5.0'	VARIES
300 SOUTH	200 W.	100 E.	66'	39'	2.5'	VARIES	5.0'	VARIES
400 SOUTH	200 W.	100 E.	66'	39'	2.5'	VARIES	5.0'	VARIES
BAUR AVE.	MAIN	S. END	56'	29'	2.5'	VARIES	5.0'	VARIES
MAIN ST.	500 S.	200 N.	66'	39'	2.5'	VARIES	5.0'	VARIES
100 EAST	400 S.	200 N.	66'	39'	2.5'	VARIES	5.0'	VARIES



STREETS REQUIRING NO NEW CURB & GUTTER

STREET	EXTENT		WIDTHS					
	FROM	TO	A R. O. W.	B ASPHALT	C CURB & GUTTER	D PARK STRIP	E SIDEWALK	F BOW to ROW
100 SOUTH	200 W.	300 E.	56'	29'	NONE	VARIES	5.0'	VARIES
200 SOUTH	200 W.	200 E.	56'	29'	NONE	VARIES	5.0'	VARIES
500 SOUTH	200 W.	100 E.*	56'	29'	NONE	VARIES	5.0'	VARIES
100 WEST	500 S.	100 N.	66'	39'	NONE	VARIES	5.0'	VARIES
200 EAST	200 S.	200 N.	66'	39'	NONE	VARIES	5.0'	VARIES
300 EAST	100 S.	200 N.	66'	39'	NONE	VARIES	5.0'	VARIES



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Street Intersection

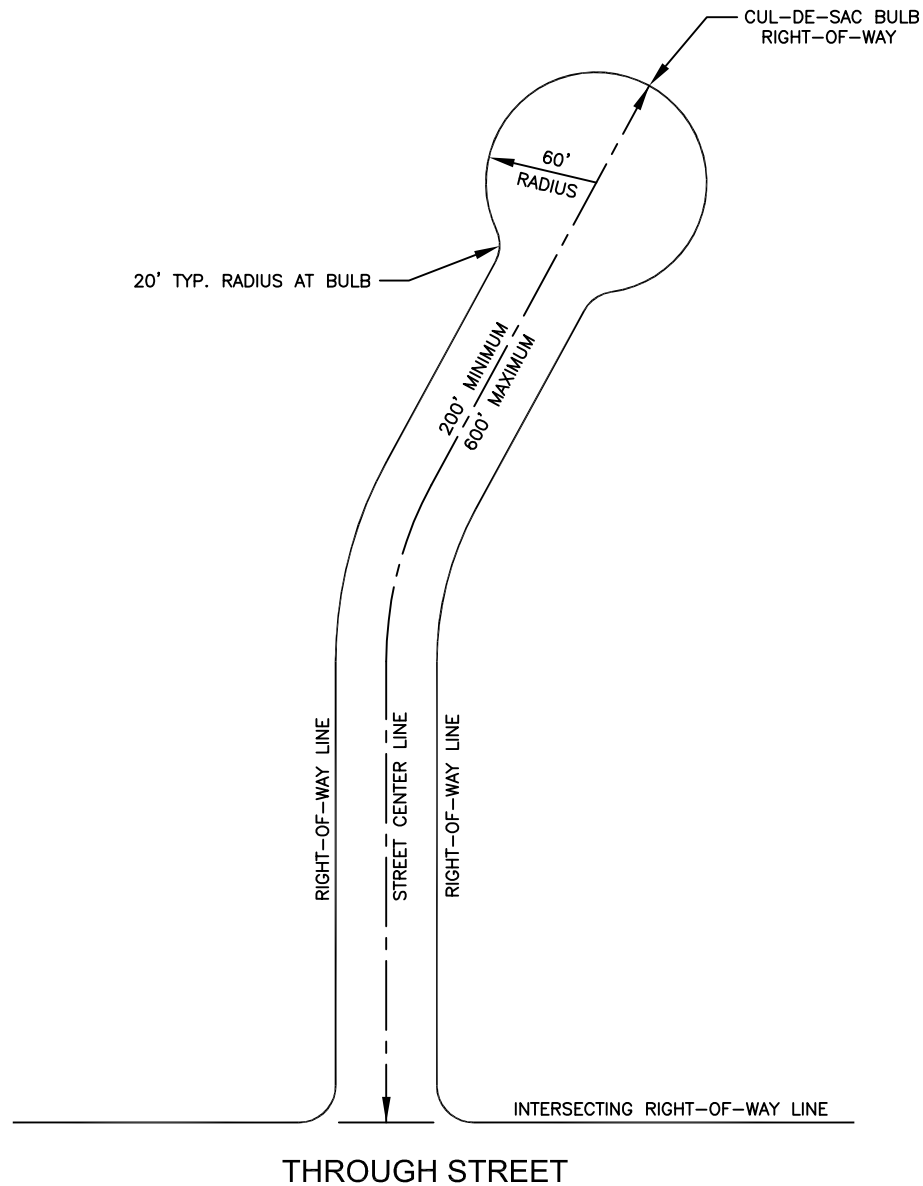
DRAWING NO. C-2
REVISED 06-17-15

NOT
ALLOWED

STREET

NOT
ALLOWED

PARTIAL CUL-DE-SACS ARE NOT ALLOWED,
INCLUDING BUT NOT LIMITED TO THE ABOVE LAYOUTS.



MINIMUM & MAXIMUM CUL-DE-SAC LENGTHS

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Cul-de-sac

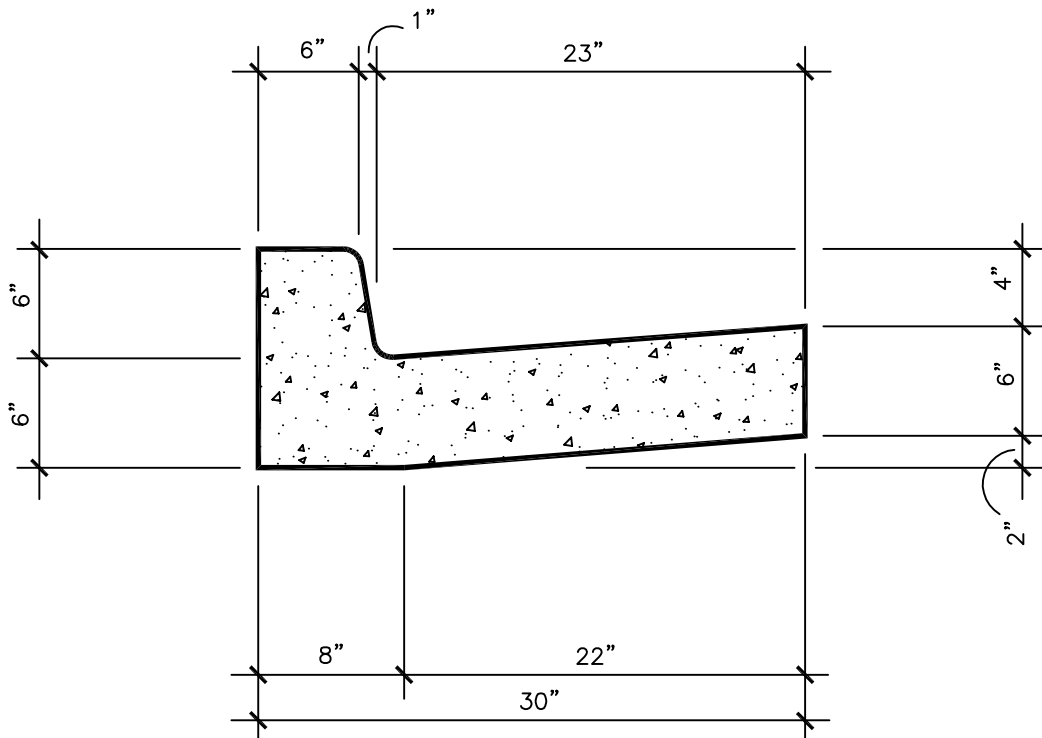
DRAWING NO. C-2A

REVISED 05-07-07

STANDARD 6" VERTICAL BACK

NOTES: 1. OTHER CURB & GUTTER DESIGNS MUST BE APPROVED
IN WRITING BY THE CITY ENGINEER.

2. CURVED SECTIONS OF CURB & GUTTER MUST BE FORMED
IN ONE CONTINUOUS ARC WITH NO ANGLES.

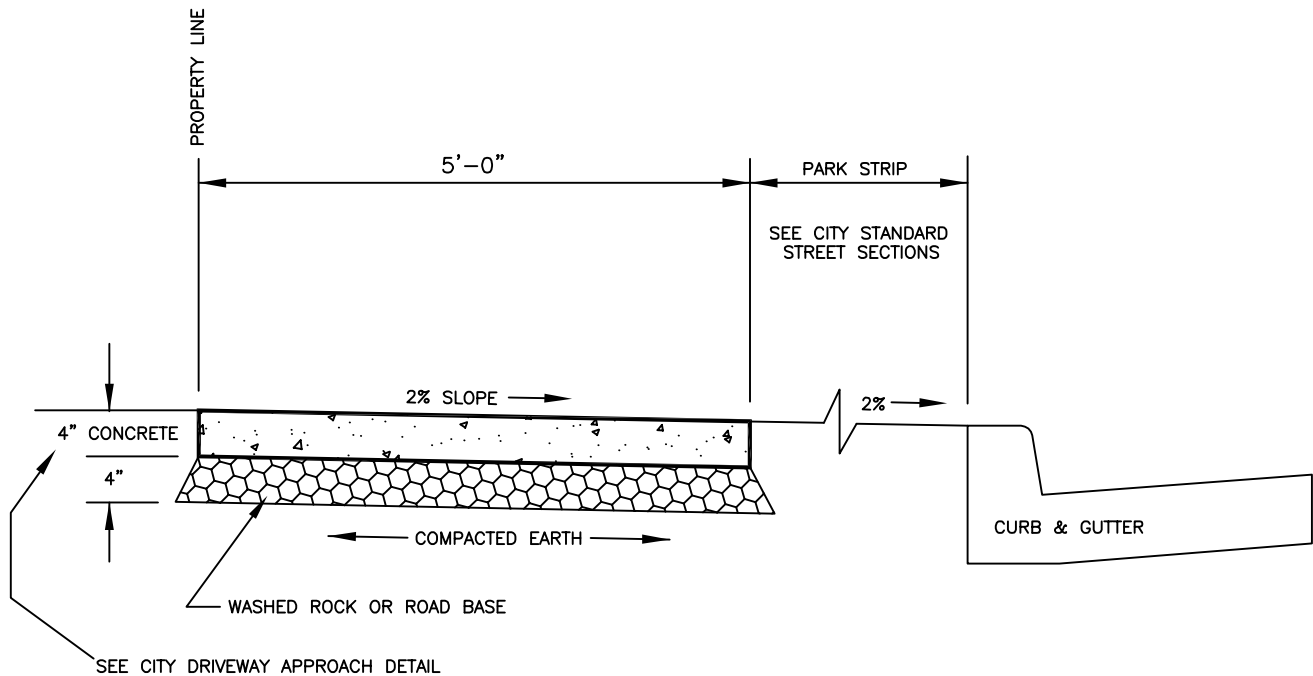


STANDARD SIDEWALK

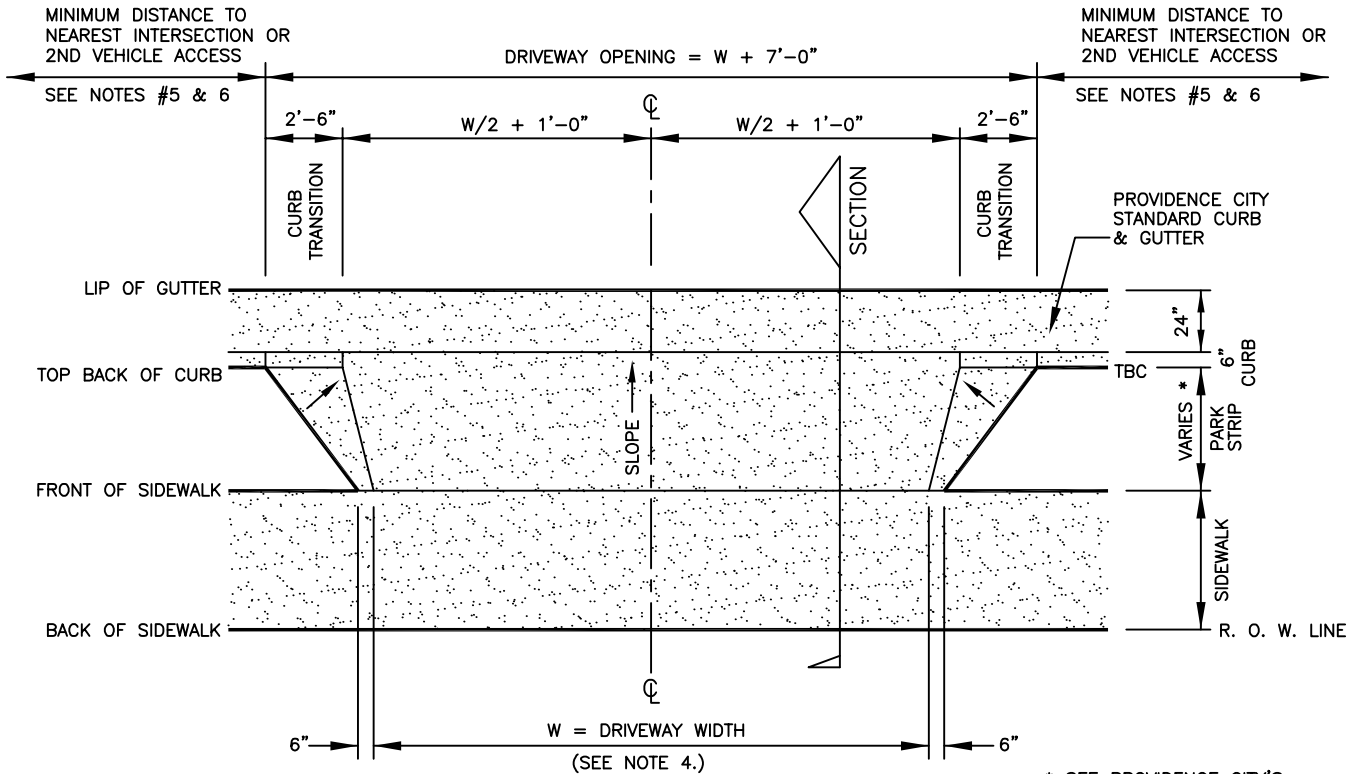
SEE ALSO CITY STANDARD DRIVEWAY APPROACH DETAIL

NOTES:

1. SCORE MARKS 1/2" DEEP EVERY 5 FEET.
2. ALL HORIZONTAL SURFACES TO BE FINISHED SMOOTH WITH A LIGHT BROOM FINISH.



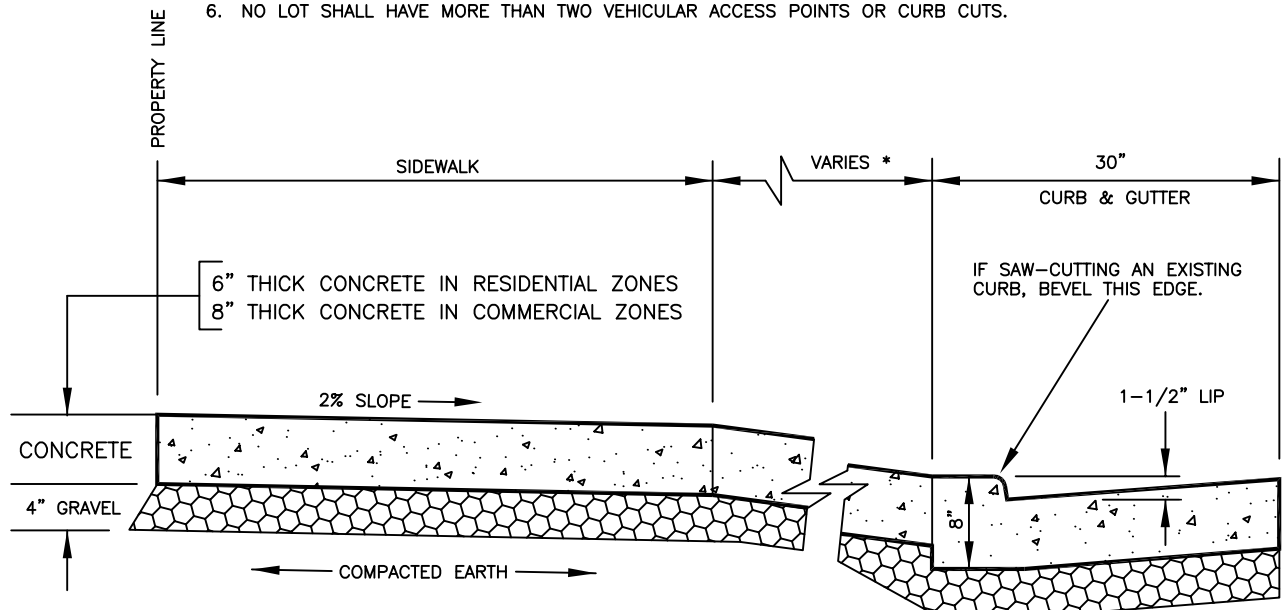
PLAN VIEW



NOTES:

1. SIDEWALK SCORE MARKS 1/2" DEEP EVERY 5 FEET.
2. ALL HORIZONTAL SURFACES TO BE STEEL TROWELED FOLLOWED BY A LIGHT BROOM FINISH.
3. EXISTING CURB & GUTTER MUST BE SAW CUT & BEVELED TO MATCH THIS DETAIL WITH NO BREAKS OR CRACKS. OTHERWISE, THE ENTIRE SECTION MUST BE REPLACED.
4. IN COMMERCIAL ZONES, DRIVEWAY WIDTH SHALL NOT EXCEED 50 FEET. IN RESIDENTIAL ZONES, DRIVEWAY WIDTH SHALL NOT EXCEED 35 FEET.
5. NO DRIVEWAY SHALL BE CLOSER THAN 30 FEET TO A STREET INTERSECTION OR 15 FEET TO A SECOND DRIVEWAY OR CURB CUT. SEE DRAWING No. C-5B.
6. NO LOT SHALL HAVE MORE THAN TWO VEHICULAR ACCESS POINTS OR CURB CUTS.

* SEE PROVIDENCE CITY'S STANDARD STREET SECTIONS



CROSS SECTION

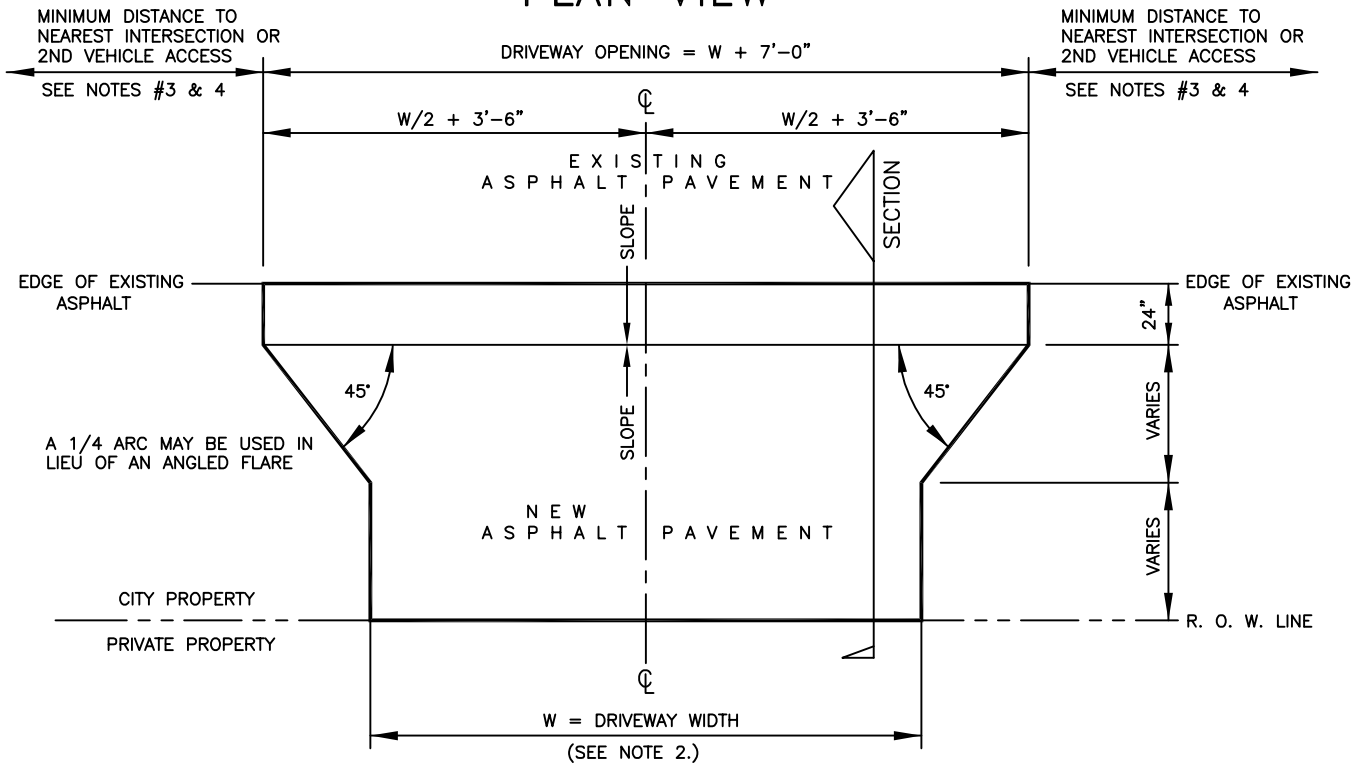
**Providence City Public
Works Department**

**Driveway
Approach**

DRAWING NO. C-5

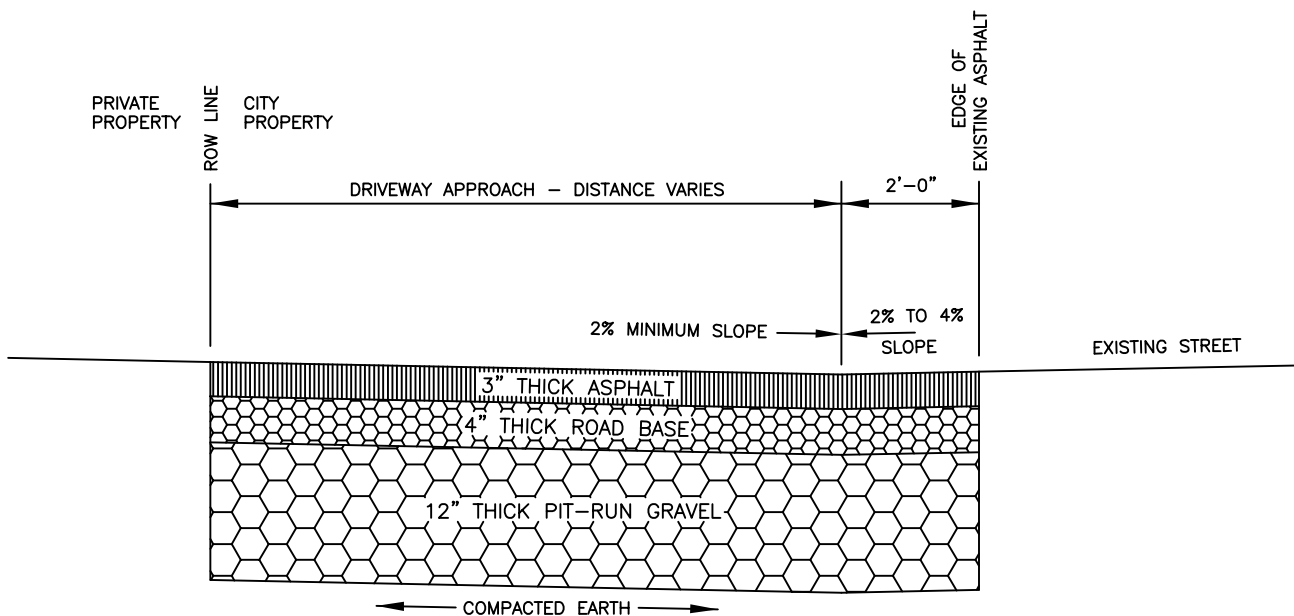
REVISED 6-17-15

PLAN VIEW



NOTES:

1. ALL NEW ASPHALT WITHIN THE CITY RIGHT-OF-WAY SHALL BE 3" THICK OVER A 4" THICK ROAD BASE AND 12" THICK PIT RUN GRAVEL.
2. IN COMMERCIAL ZONES, DRIVEWAY WIDTH SHALL NOT EXCEED 50 FEET. IN RESIDENTIAL ZONES, DRIVEWAY WIDTH SHALL NOT EXCEED 35 FEET.
3. NO DRIVEWAY SHALL BE CLOSER THAN 30 FEET TO A STREET INTERSECTION OR 15 FEET TO A SECOND DRIVEWAY OR CURB CUT. SEE DRAWING No. C-5B.
4. NO LOT SHALL HAVE MORE THAN TWO VEHICULAR ACCESS POINTS OR CURB CUTS.



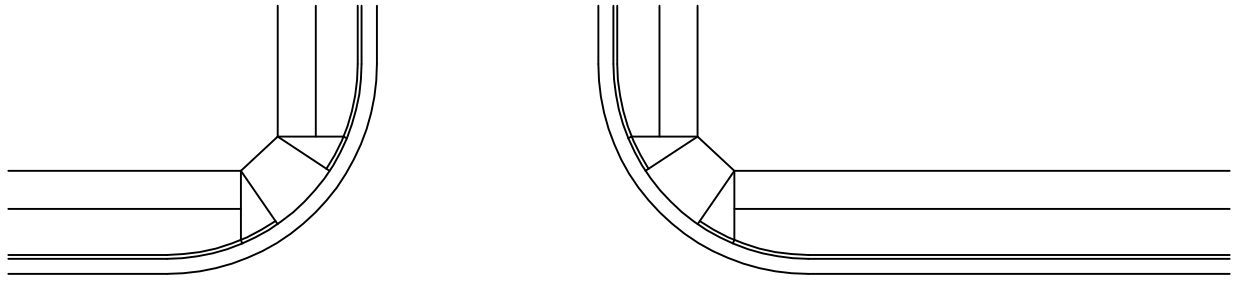
CROSS SECTION

Providence City Public Works Department

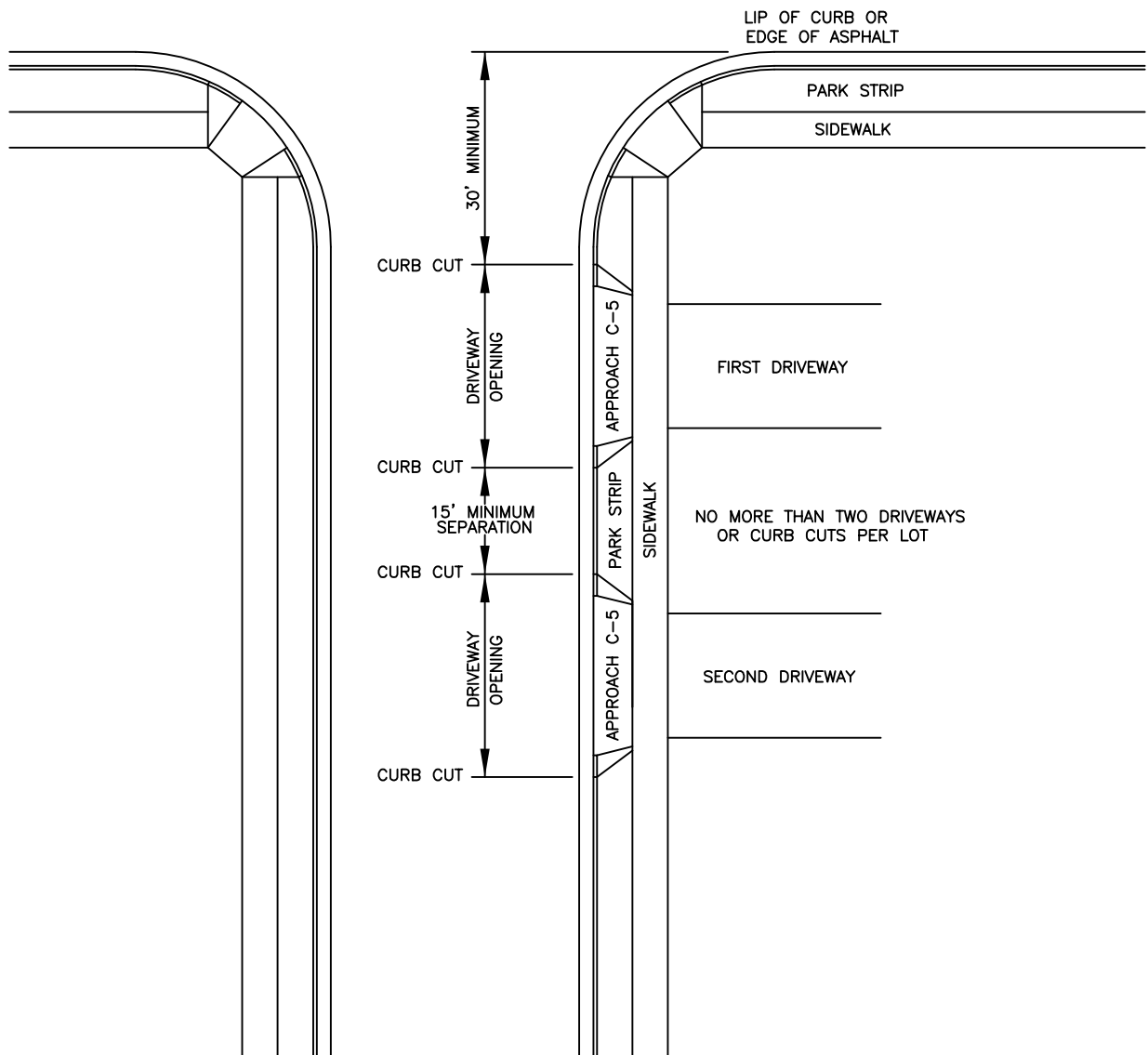
Driveway without Curb & Gutter

DRAWING NO. C-5A

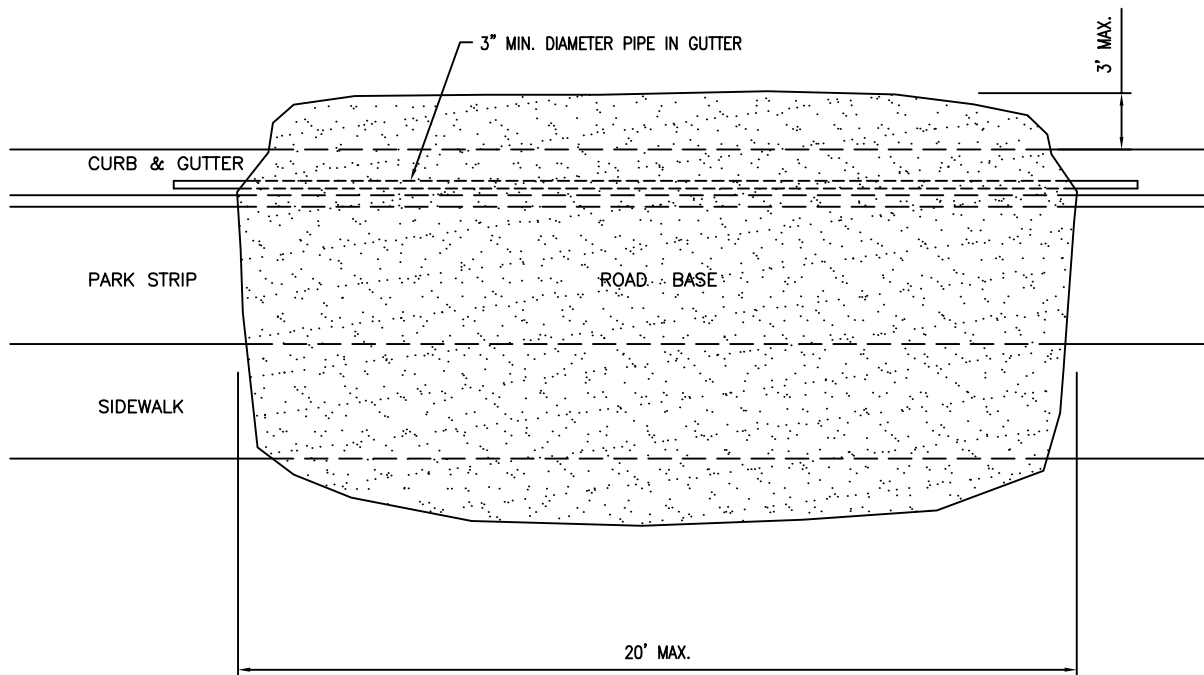
REVISÉD 06-17-15



STREET INTERSECTION



STREET



NOTE: ANY CURB & GUTTER OR SIDEWALK THAT IS DAMAGED DURING CONSTRUCTION MUST BE REPLACED BY THE CONTRACTOR.

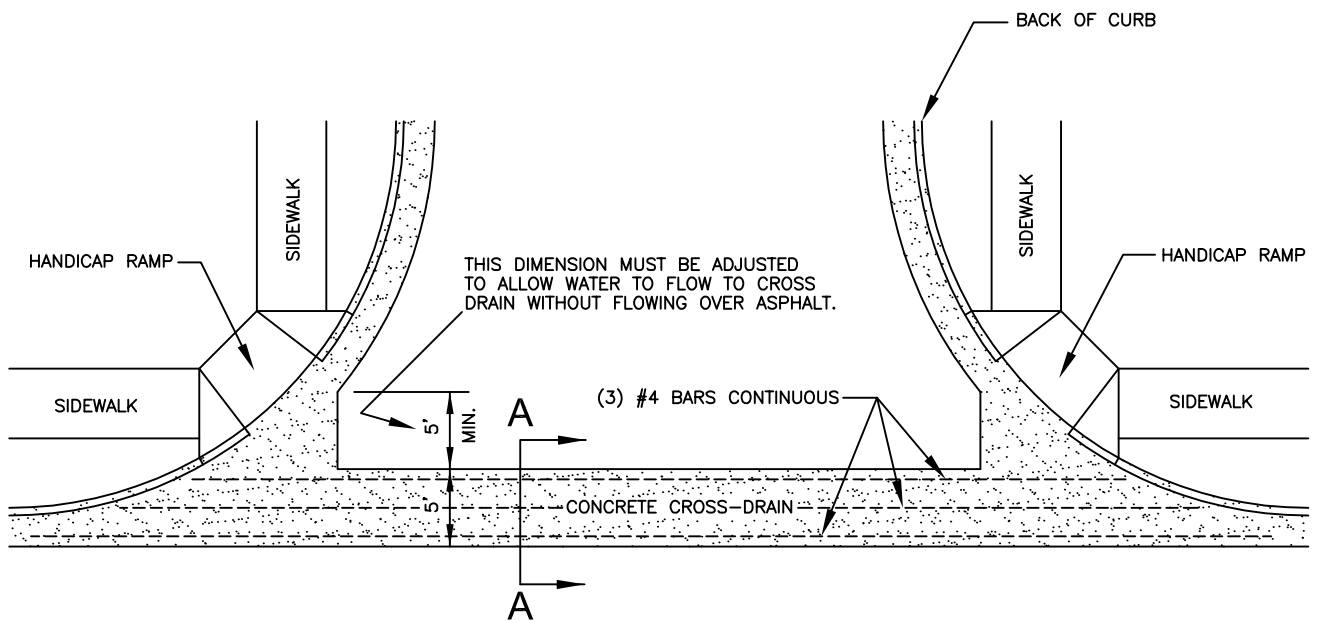
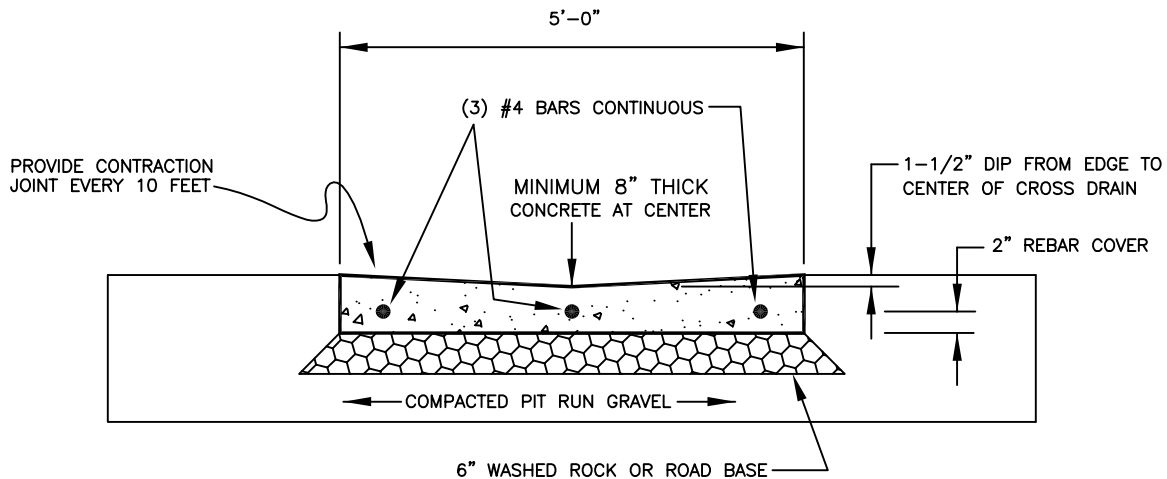
Providence City Public
Works Department

Temporary Bridge
For Curb & Sidewalk

DRAWING NO. **C-5C**

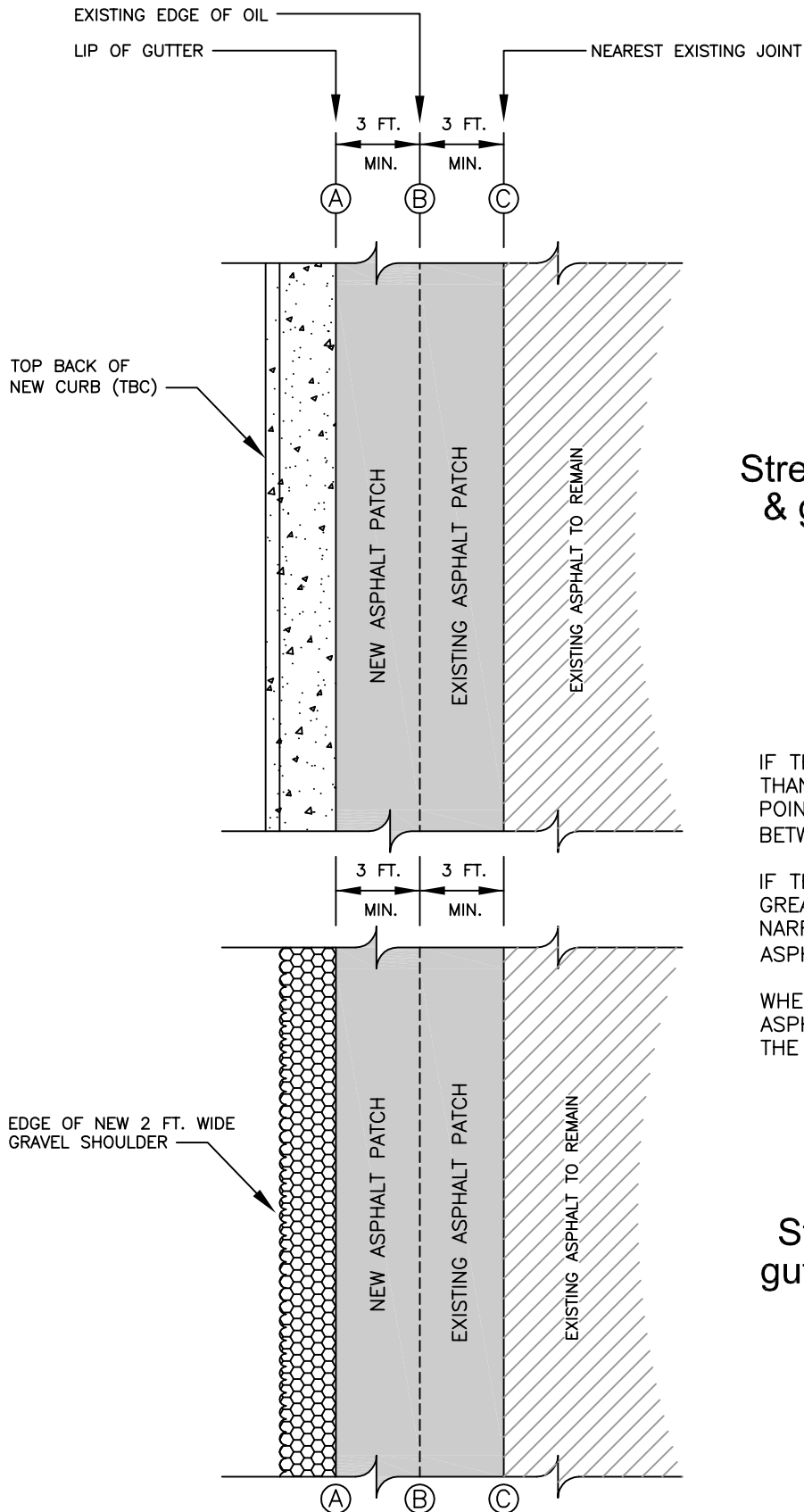
CREATED 10-20-14

SECTION A-A



PLAN VIEW

PLAN VIEW OF STREET



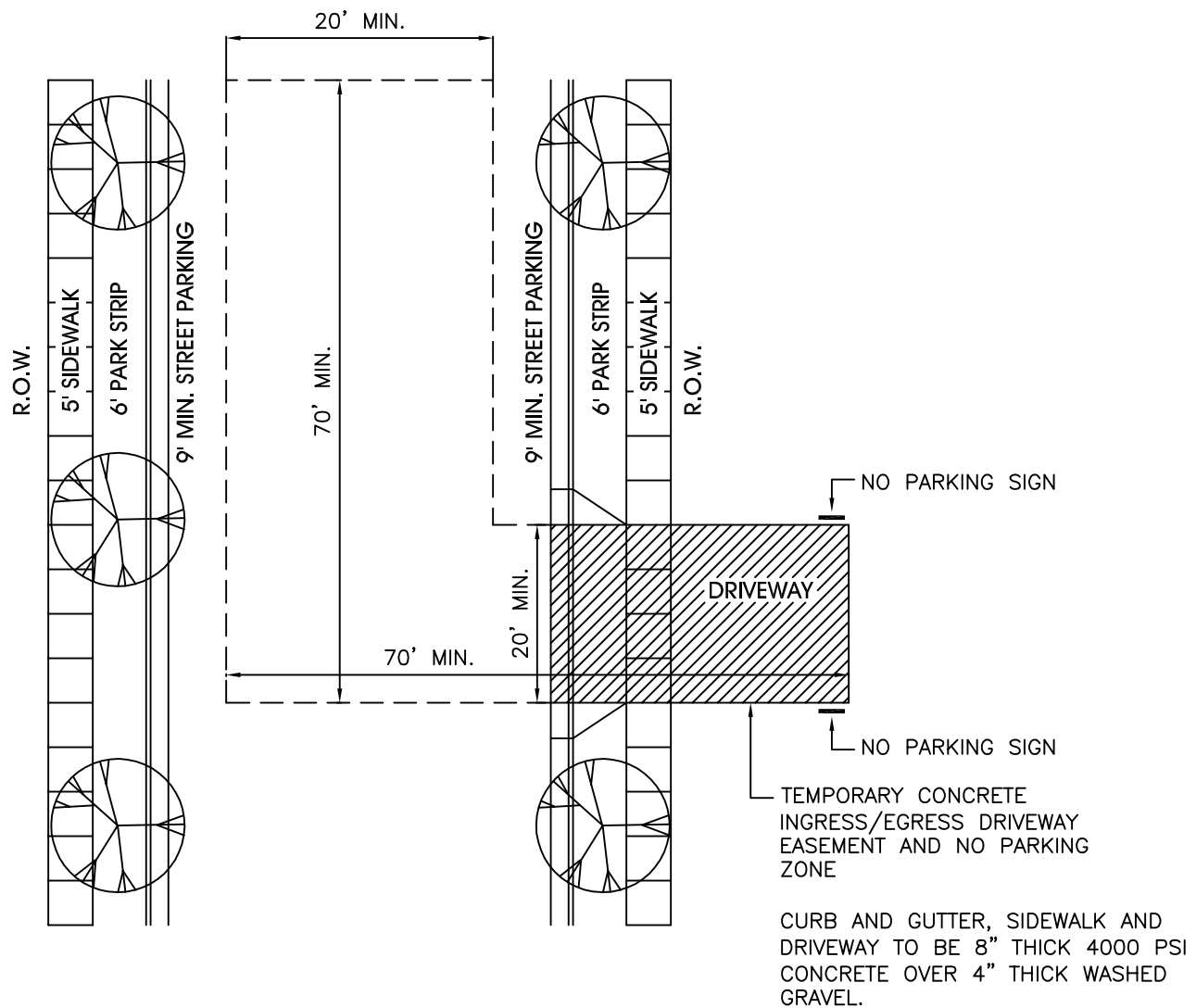
Streets where new curb
& gutter is required

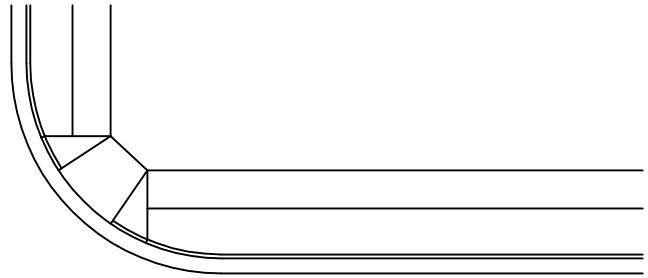
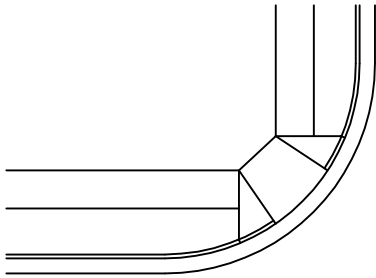
IF THE EXISTING ASPHALT PATCH IS LESS THAN 3 FEET WIDE AT ITS NARROWEST POINT, THEN INSTALL NEW ASPHALT BETWEEN LINES (A) AND (C).

IF THE EXISTING ASPHALT PATCH IS GREATER THAN 3 FEET WIDE AT ITS NARROWEST POINT, THEN INSTALL NEW ASPHALT BETWEEN LINES (A) AND (B).

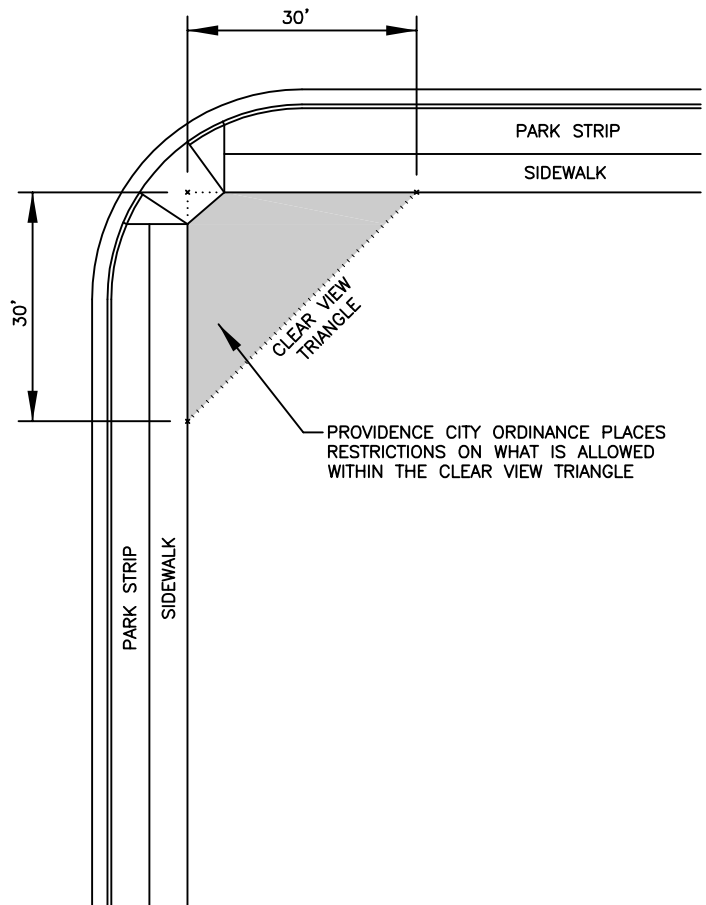
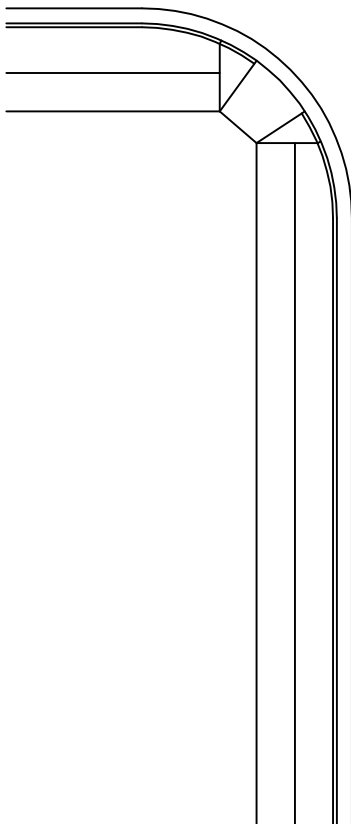
WHERE NEW ASPHALT ADJOINS EXISTING ASPHALT, PRIME AND SEAL THE EDGE OF THE SAW CUT WITH TACK OIL.

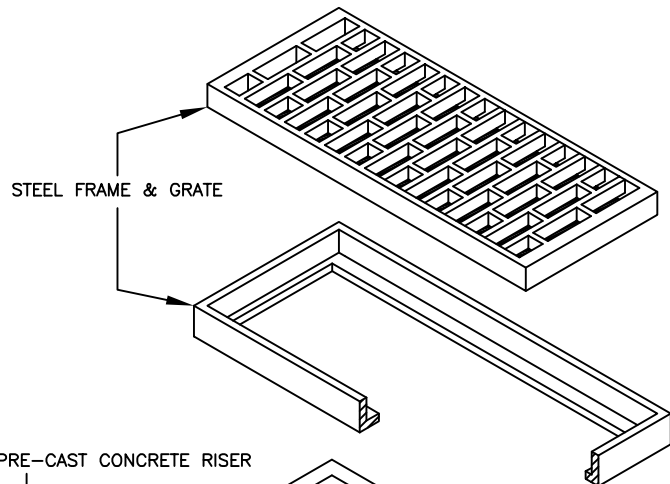
Streets where curb &
gutter is NOT required



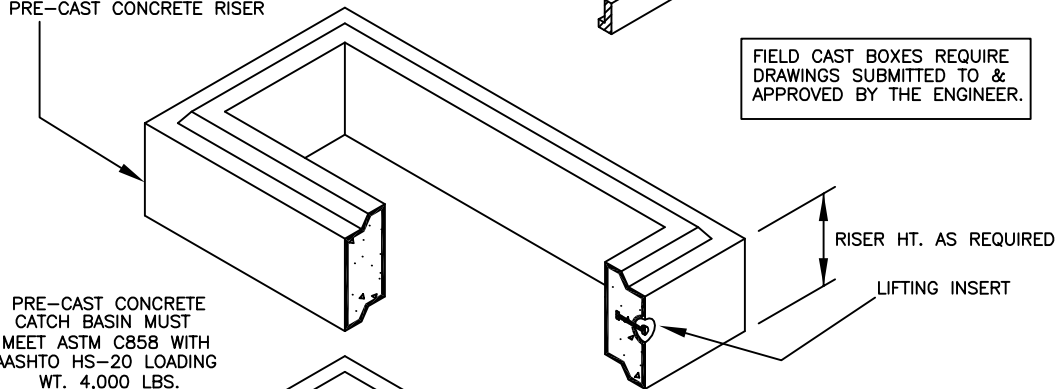


STREET INTERSECTION



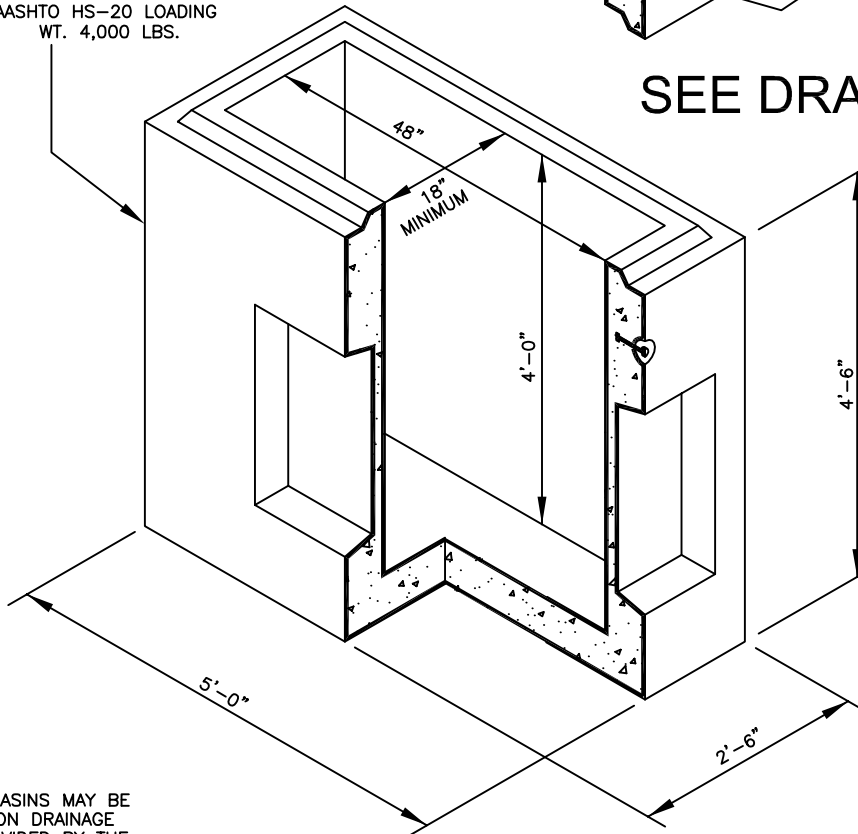


FIELD CAST BOXES REQUIRE
DRAWINGS SUBMITTED TO &
APPROVED BY THE ENGINEER.



PRE-CAST CONCRETE
CATCH BASIN MUST
MEET ASTM C858 WITH
AASHTO HS-20 LOADING
WT. 4,000 LBS.

SEE DRAWING D-1A



NOTE:
MULTIPLE CATCH BASINS MAY BE
REQUIRED BASED ON DRAINAGE
CALCULATIONS PROVIDED BY THE
DEVELOPER'S ENGINEER

PLAN VIEW

PROVIDE MULTIPLE CATCH BASINS ON STEEP GRADES. CATCH BASIN(S) MUST COLLECT 100% OF FLOW FROM GUTTER & STREET.

DIRECTION OF FLOW

STANDARD 30" CURB & GUTTER

SECTION

MIN. 5'-0"

5'-0"

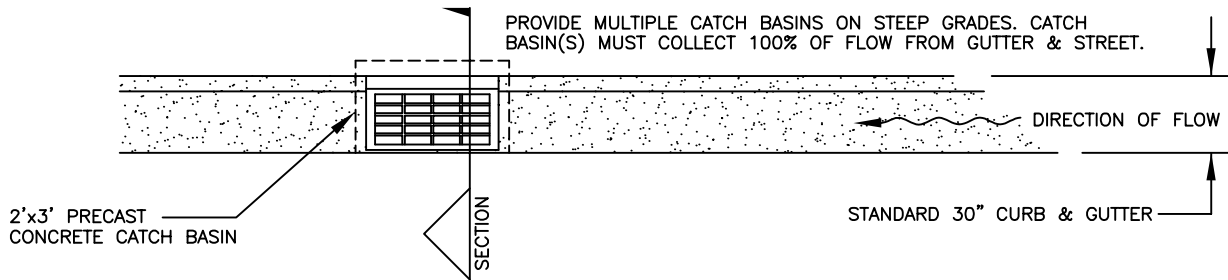
10'-0"

TRANSITION

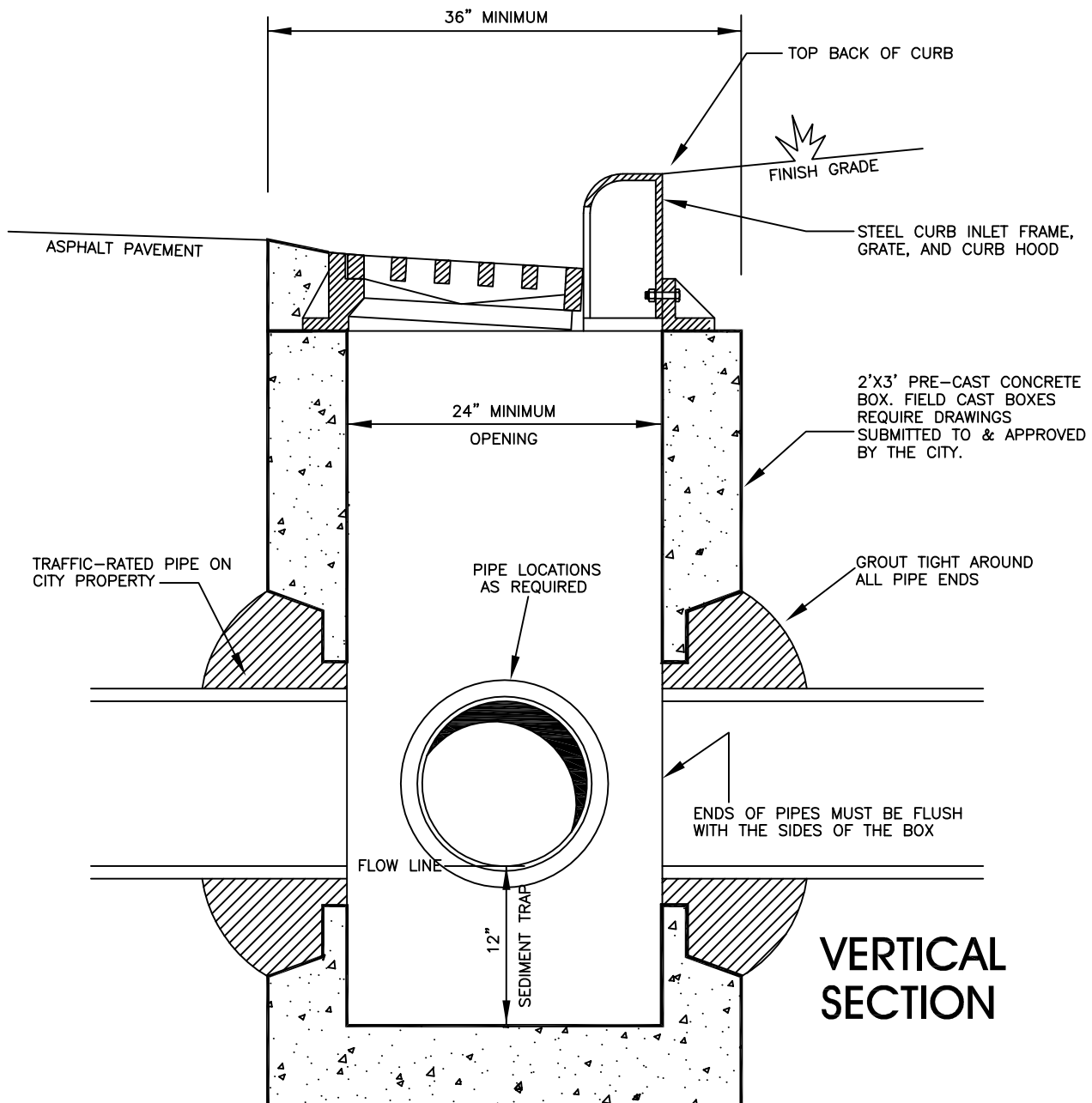
WIDEN GUTTER AT CATCH BASIN

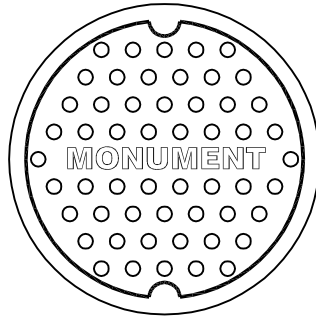
TRANSITION



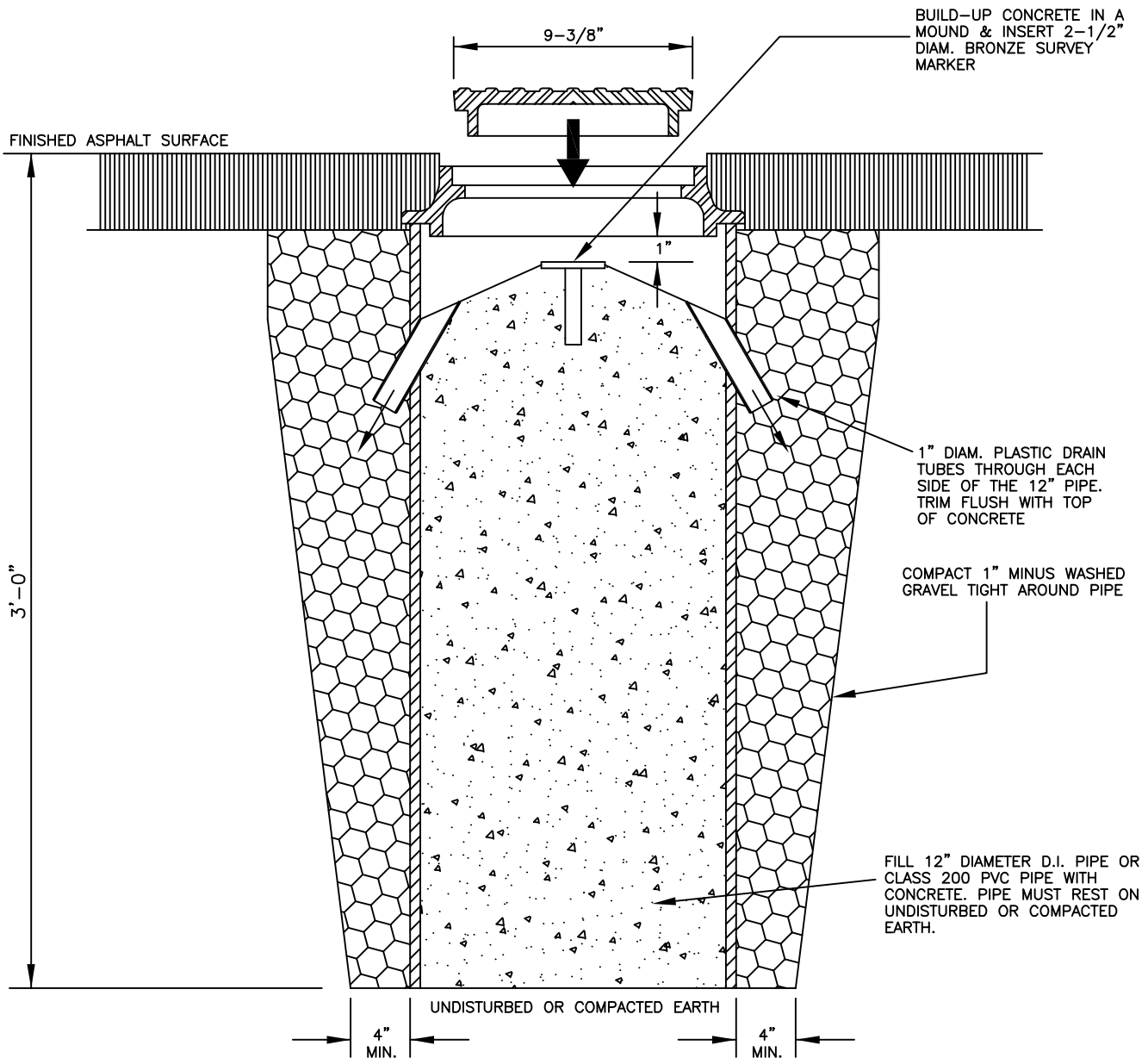


PLAN VIEW





D & L #K-6313 STREET
MONUMENT RING & COVER
OR APPROVED EQUAL
LABELED "MONUMENT"



Providence City Public
Works Department

Street Monument

DRAWING NO. M-1

REVISED 08-01-05

TOP OF COVER MUST BE
FLUSH WITH TOP OF ASPHALT

RING & COVER LABELED "SEWER"
WITH VENT HOLES. PROVIDE
HEIGHT-ADJUSTABLE RINGS.

MULTIPLE GRADE RINGS
MAY NOT EXCEED 12"
IN HEIGHT

PRE-CAST CONCRETE
ECCENTRIC CONE

STEP HOLES

STEP HOLES

PRE-CAST CONCRETE
RISER AS REQUIRED

5" AT 48" DIAM.
6" AT 60" DIAM.

STEP HOLES

PLASTIC LIFTING INSERT

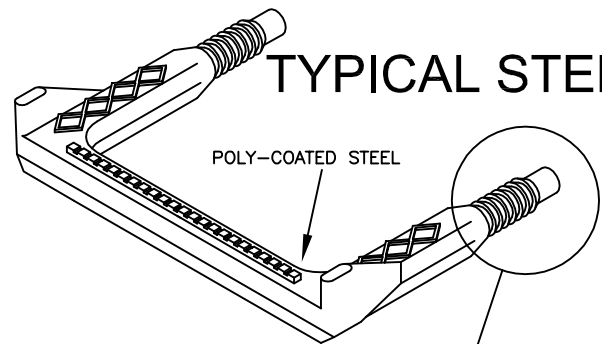
PRE-CAST CONCRETE BASE
WITH SINGLE INVERT

BOOT

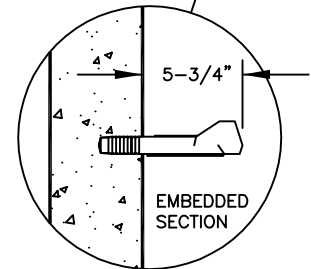
MANHOLE SECTIONS MUST MEET ASTM C478.

THE TOPS OF MANHOLE LIDS SHALL BE FLUSH WITH THE TOP
OF ASPHALT (OR FINISH GRADE) IN ALL DIRECTIONS. CONCRETE
OR STEEL SHIMS MUST BE USED ON STEEP GRADES & ALL
VOIDS FILLED WITH NON-SHRINK GROUT.

TYPICAL STEP

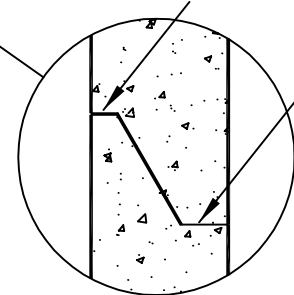


POLY-COATED STEEL



EMBEDDED
SECTION

INSTALL MASTIC ON THE WIDER OUTSIDE LIP
OF THE JOINT. IF GROUND WATER IS
PRESENT OR ANTICIPATED, THEN INSTALL
MASTIC ON BOTH INSIDE & OUTSIDE LIPS.



TYPICAL JOINT

SINGLE INVERT MANHOLES MAY BE
48" IN DIAMETER OR GREATER.
MULTIPLE INVERT & DROP MANHOLES
MUST BE 60" IN DIAMETER OR GREATER.

Providence City Public
Works Department

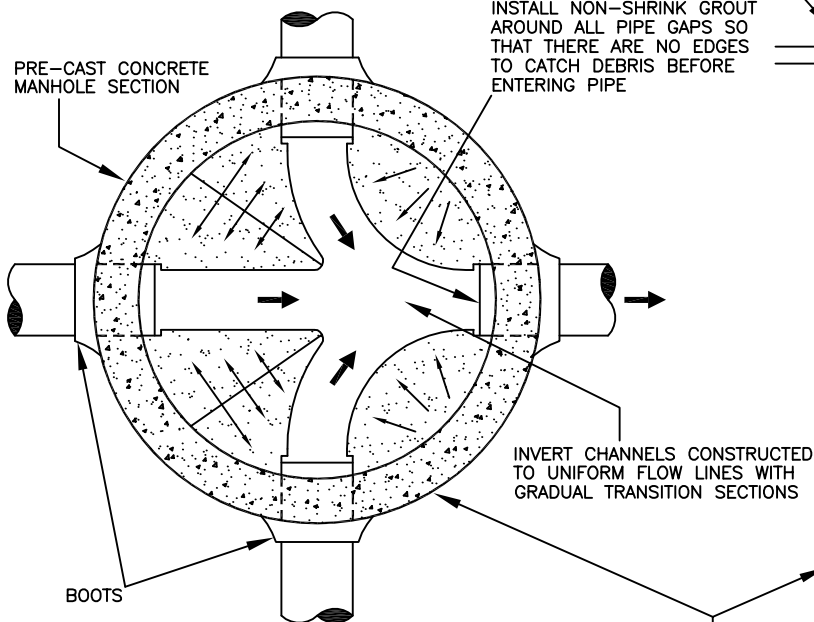
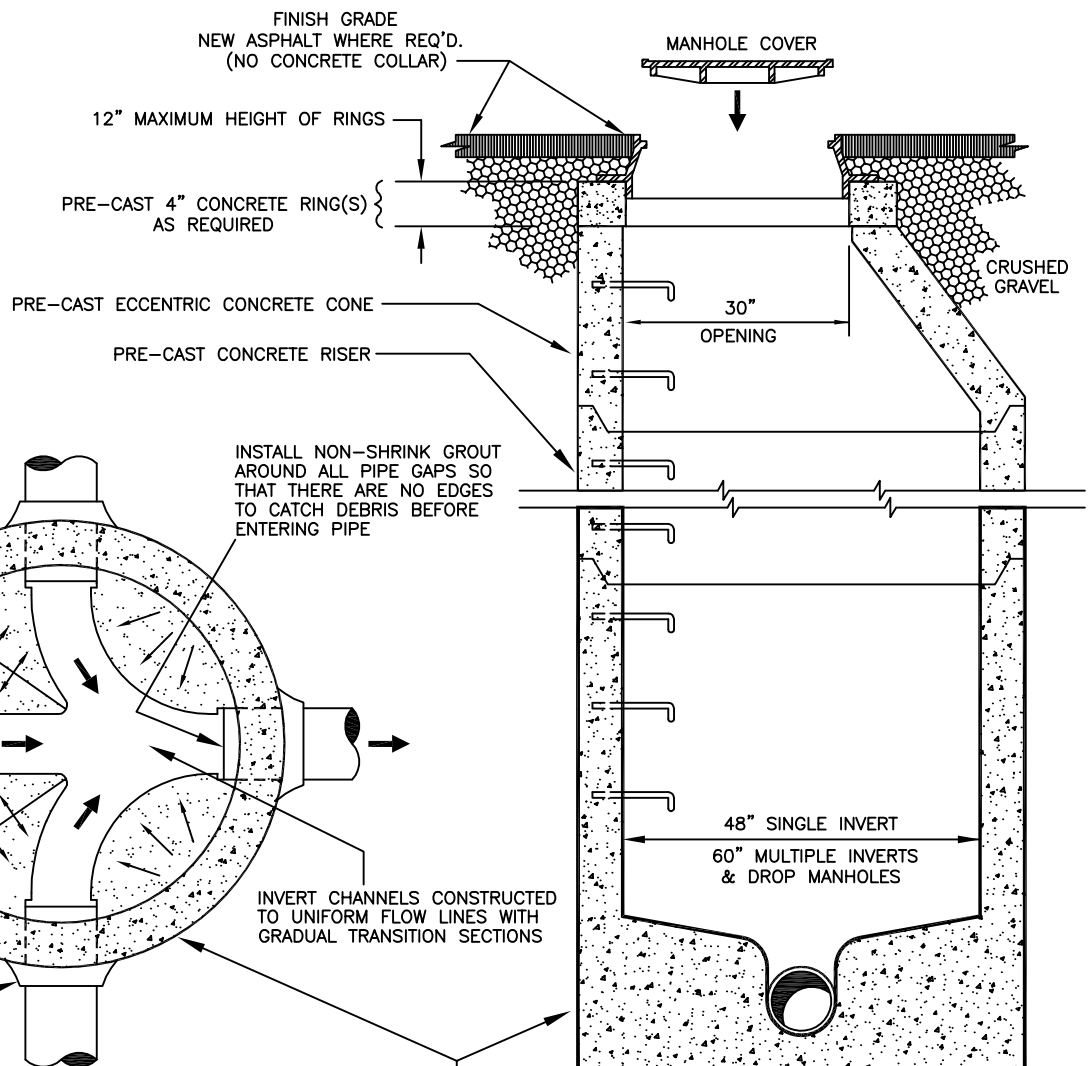
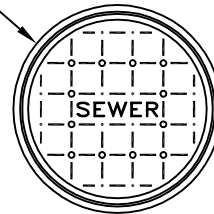
Sewer Manhole
ISOMETRIC VIEW

DRAWING NO. S-1

REVISED 05-07-07

MANHOLE COVER PLAN VIEW

STANDARD MANHOLE COVER LABELED
"SEWER" WITH VENT HOLES.
MINIMUM COVER WEIGHT = 120#
MINIMUM FRAME WEIGHT = 155#



MULTIPLE INVERTS PLAN VIEW

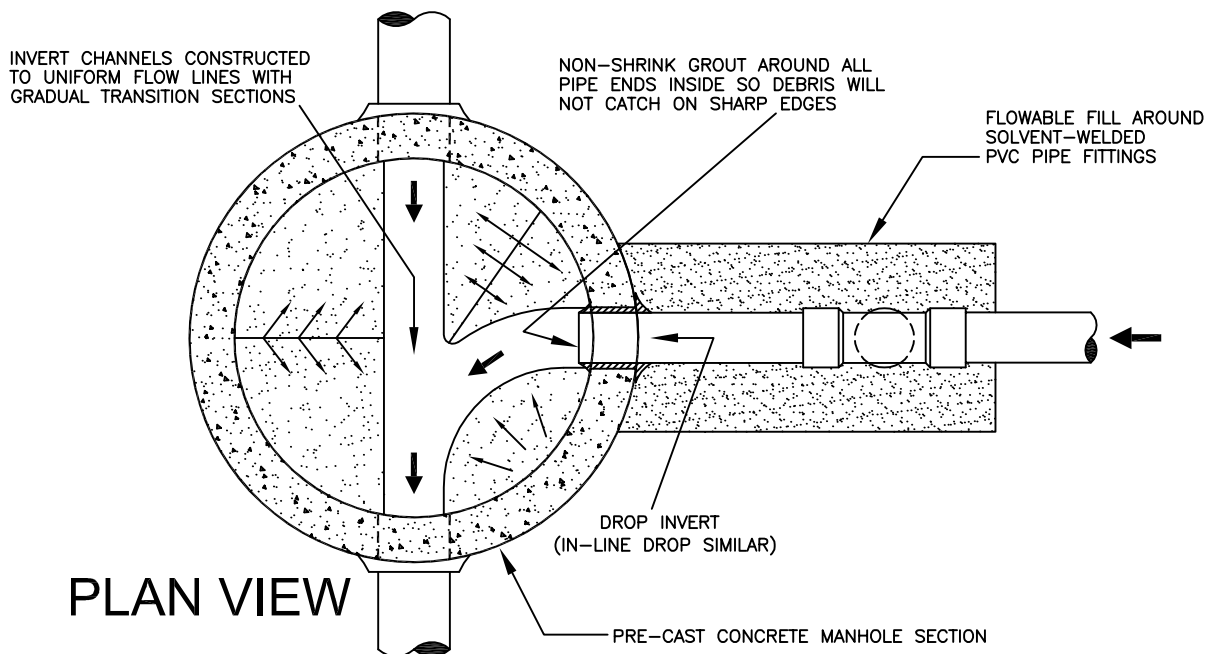
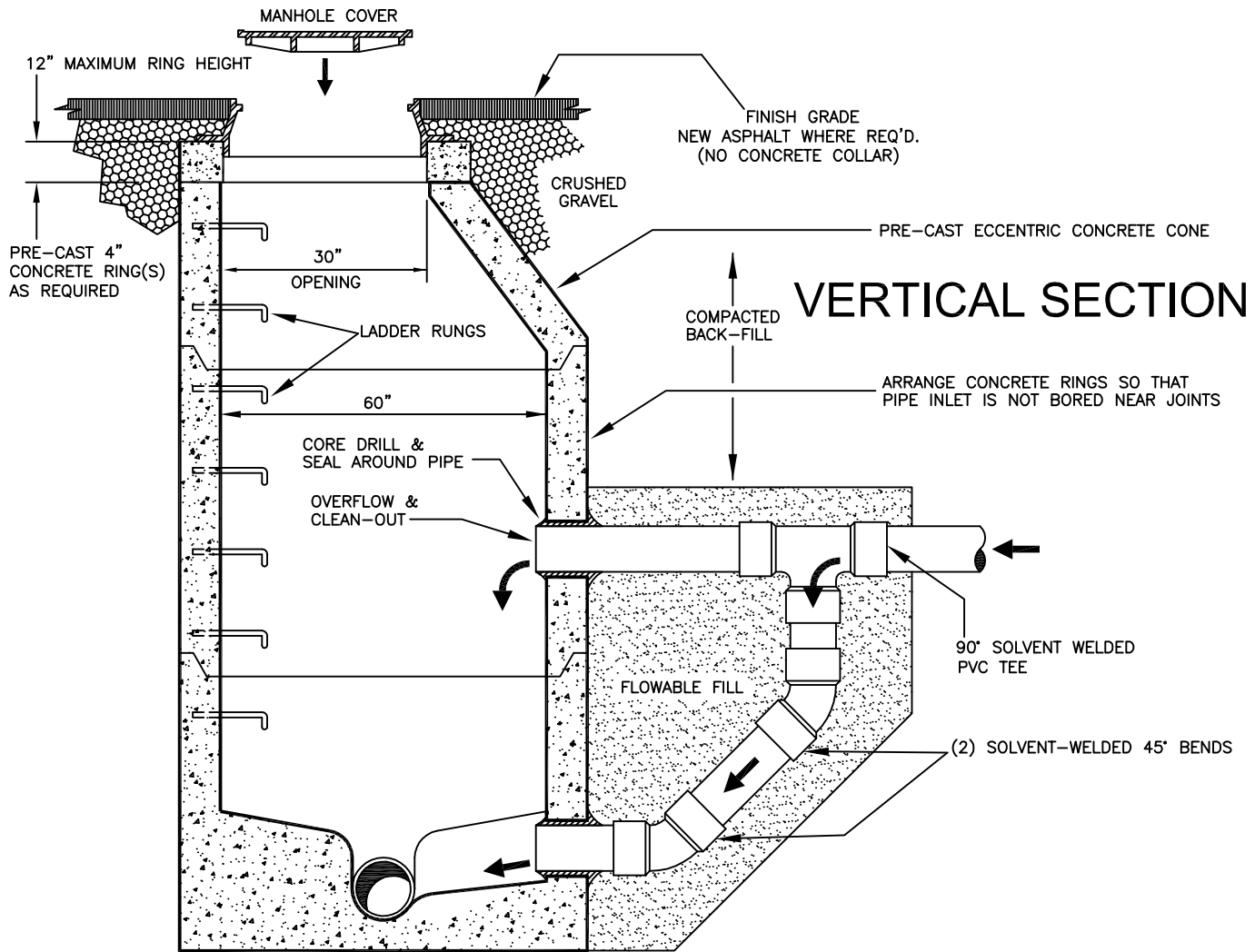
VERTICAL SECTION

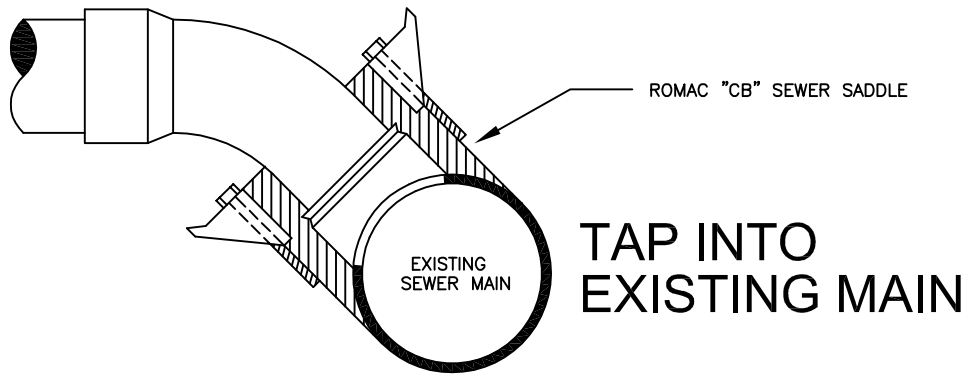
Providence City Public
Works Department

Manhole Details

DRAWING NO. S-1A

REVISED 12-29-06





THE ENDS OF SERVICE LATERALS SHALL BE MARKED WITH A TREATED 2x4 PAINTED GREEN. DETECTABLE MARKING TAPE SHALL BE INSTALLED FROM THE SEWER MAIN TO THE HOME.

R. O. W. LINE

BY HOMEOWNER | BY DEVELOPER

CLEAN-OUTS ARE REQUIRED AT EVERY BEND GREATER THAN 45°, & AT EVERY 100 FEET OF PIPE LENGTH.

BRASS PLUG WITH CAST IRON BODY.

FINISH GRADE

45° BEND

DETECTABLE MARKING TAPE FROM THE MAIN TO THE HOME

PVC JOINTS OF RUBBER RING TYPE MUST COMPLY WITH ASTM D-1869

PIPE FROM HOME

PVC WYE

4" PVC LATERALS TO BE INSTALLED AT 2% MINIMUM GRADE (1/4" PER FOOT).

LARGER PIPE SIZES MUST BE APPROVED BY THE CITY ENGINEER.

TEMPORARY WATER TIGHT CAP

10 FT.

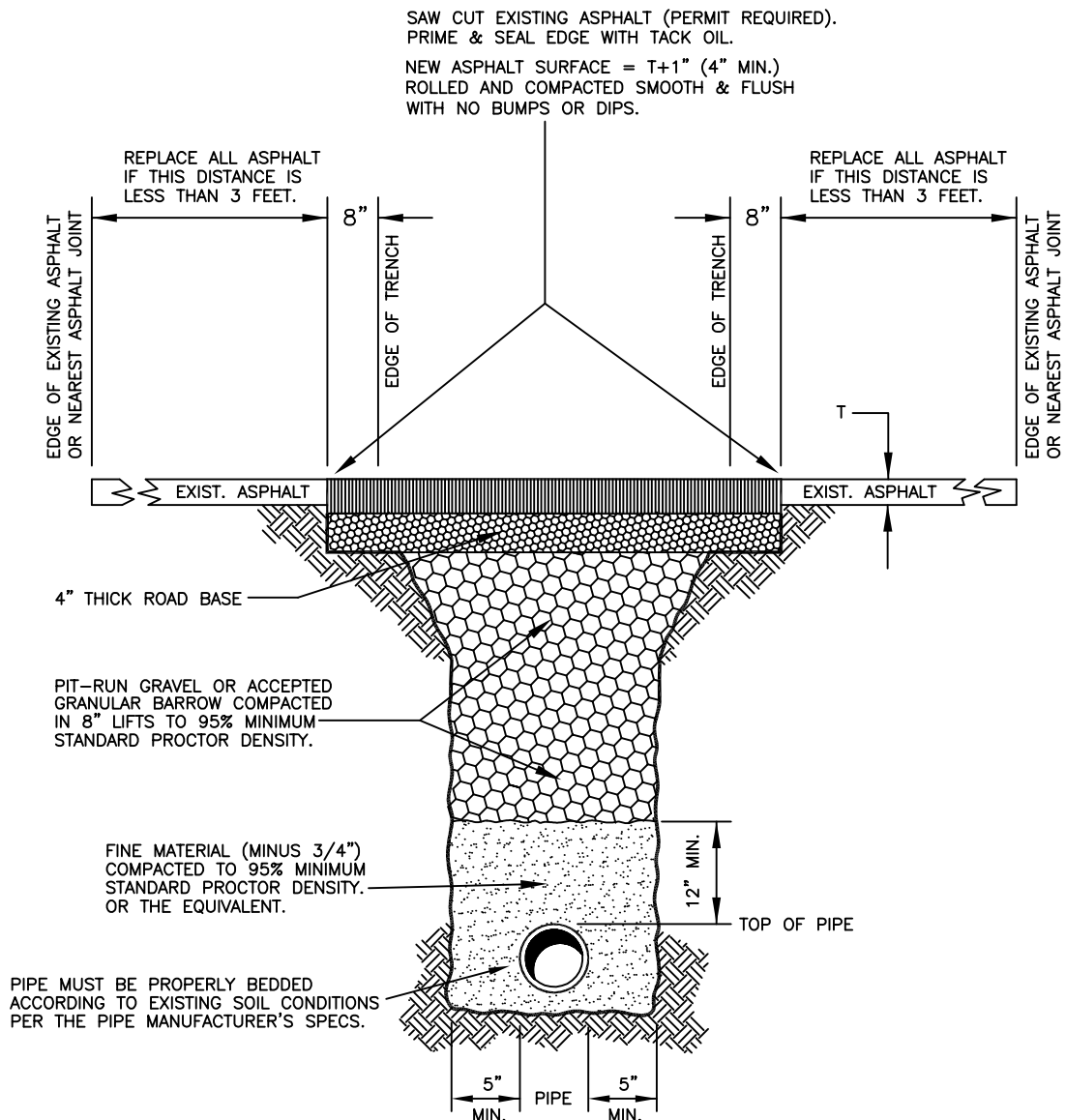
PVC SEWER MAIN & FITTINGS PER ASTM D-3034

Providence City Public
Works Department

Sewer Lateral

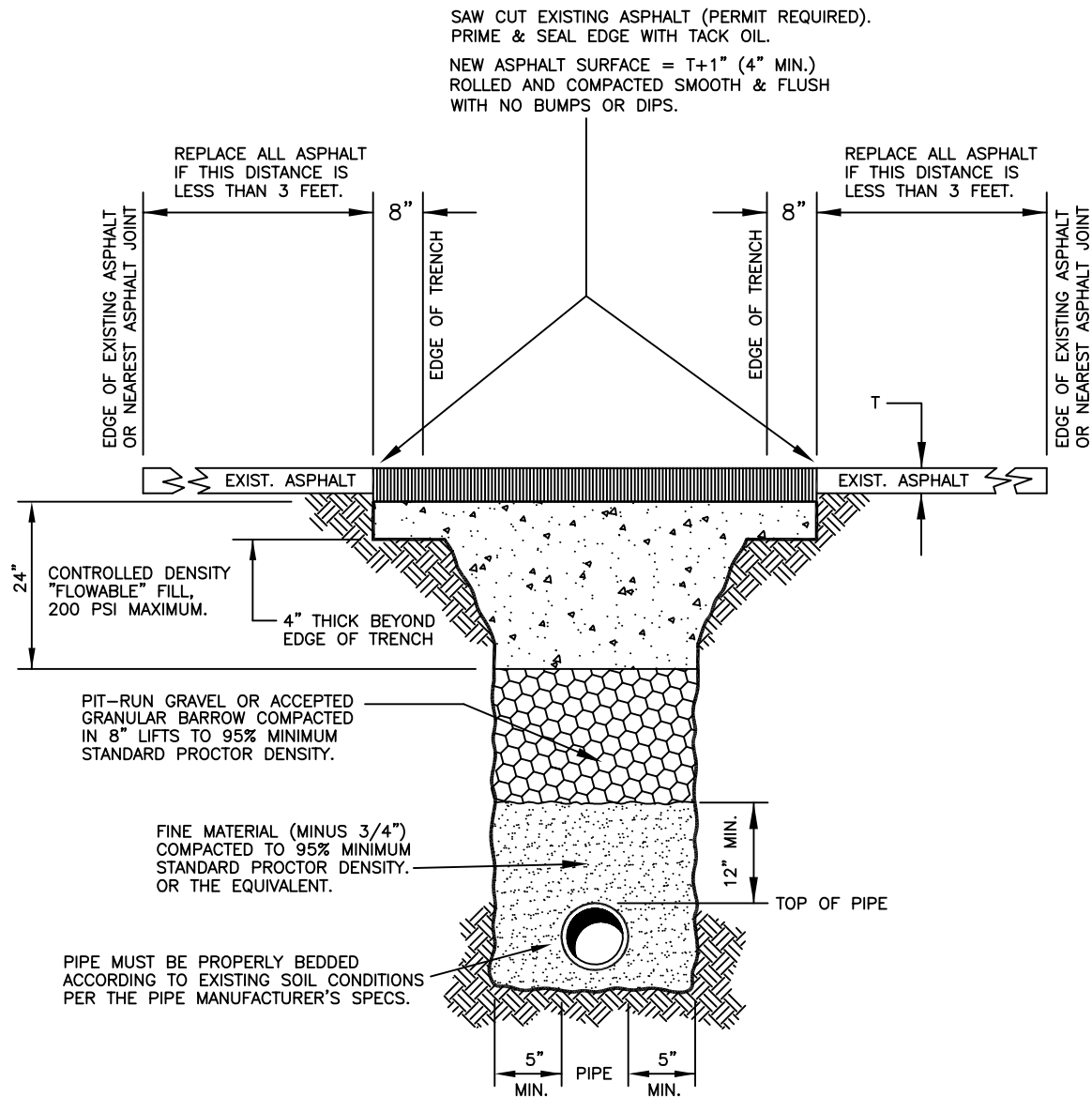
DRAWING NO. S-4

REVISED 05-07-07



NOTES

1. ALL NEW ASPHALT SHALL BE INSTALLED FLUSH WITH THE EXISTING ASPHALT SURFACE WITH NO MORE THAN 1/2" VARIANCE FROM A STRAIGHT EDGE LAID ACROSS THE TRENCH CUT. IF THE NEW ASPHALT BULGES OR SETTLES MORE THAN THIS TOLERANCE ONE YEAR AFTER INSTALLATION, THE DEVELOPER WILL REMOVE THE ASPHALT AND RE-PAVE THE CUT AREA TO THE ABOVE TOLERANCE. IF THE ASPHALT PLANTS ARE CLOSED FOR THE SEASON, USE "COLD MIX" ASPHALT OR FLOWABLE FILL, AND REPLACE IT WITH "HOT MIX" WITHIN 30 DAYS AFTER THE PLANTS REOPEN.
2. TYPE "T-A" TRENCHES REQUIRE COMPACTION TESTS APPROVED BY THE CITY ENGINEER. THIS APPROVAL DOES NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENTS IN NOTE 1. CONTRACTOR WILL GIVE THE CITY ENGINEER WRITTEN CERTIFICATION OF PROPER COMPACTION FROM A LICENSED SOILS TESTING ENGINEER.
3. ALL SPOIL MATERIAL EXCAVATED FROM TRENCHES SHOULD BE EXPORTED FROM CITY PROPERTY. ALL TRENCHING MUST COMPLY WITH FEDERAL OSHA REQUIREMENTS.



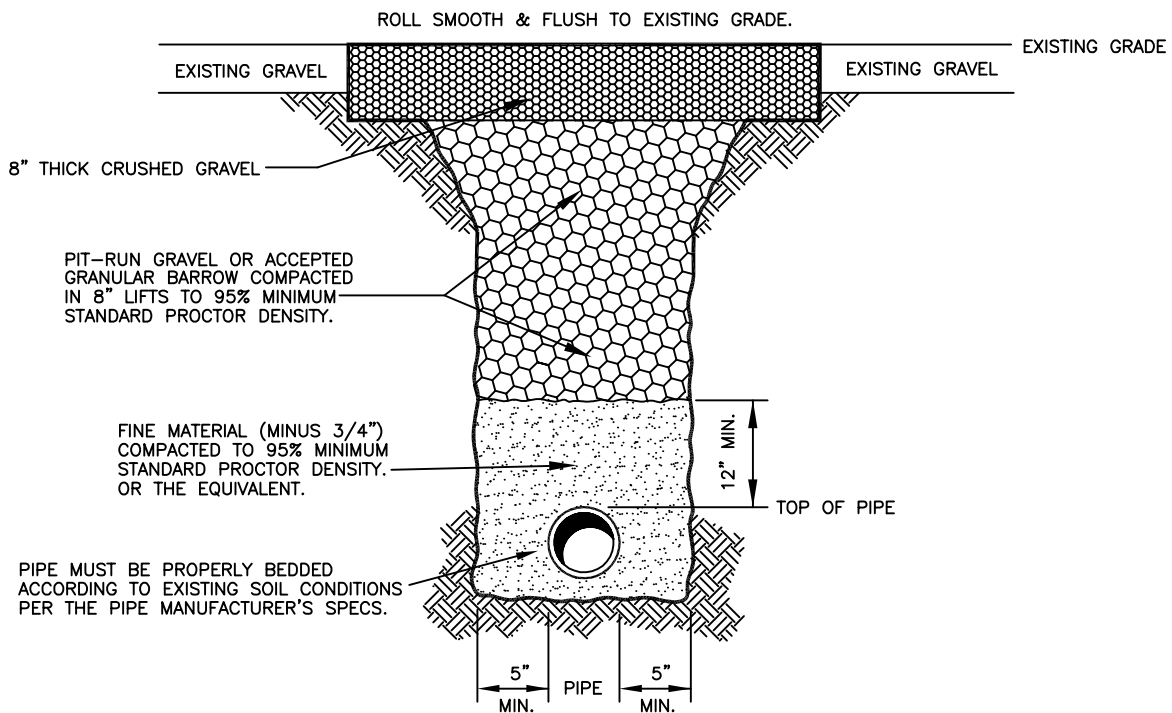
NOTES

1. ALL NEW ASPHALT SHALL BE INSTALLED FLUSH WITH THE EXISTING ASPHALT SURFACE WITH NO MORE THAN 1/2" VARIANCE FROM A STRAIGHT EDGE LAID ACROSS THE TRENCH CUT. IF THE NEW ASPHALT BULGES OR SETTLES MORE THAN THIS TOLERANCE ONE YEAR AFTER INSTALLATION, THE DEVELOPER WILL REMOVE THE ASPHALT AND RE-PAVE THE CUT AREA TO THE ABOVE TOLERANCE. IF THE ASPHALT PLANTS ARE CLOSED FOR THE SEASON, USE "COLD MIX" ASPHALT OR FLOWABLE FILL, AND REPLACE IT WITH "HOT MIX" WITHIN 30 DAYS AFTER THE PLANTS REOPEN.
2. FLOWABLE FILL MUST BE INSTALLED IN ALL ASPHALT TRENCHES THAT CROSS THE FLOW OF TRAFFIC AT A RIGHT ANGLE AND ALSO AT ALL CANAL CROSSINGS. THE FLOWABLE FILL MUST MEET ASTM STANDARDS AND HAVE THE CORRECT DENSITY, AGGREGATE, ENTRAINED AIR, AND WATER CONTENT REQUIRED FOR UTILITY TRENCHING UNDER EXISTING ASPHALT ROADWAYS. THE DENSITY SHALL BE SUCH AS TO PERMIT HAND EXCAVATION AND SHOULD NOT EXCEED 200 PSI. THE FIRST POUR SHOULD BE OVER AND AROUND PIPE JOINTS WITH ANCHOR DEVICES, IF NECESSARY, TO AVOID PIPE FLOTATION. TEMPORARY BULKHEADS SHOULD BE USED AT EACH END OF THE TRENCH TO CONTAIN THE FLOWABLE FILL. THE TOP SURFACE OF THE FLOWABLE FILL MUST MATCH THE SLOPE OF THE EXISTING ASPHALT SURFACE. STEEL TRAFFIC PLATES SPANNING THE TRENCH MUST BE PROVIDED TO PREVENT CONTACT WITH THE FLOWABLE FILL UNTIL IT HAS CURED. WARNING SIGNS MUST BE PLACED UNTIL THE FINAL ASPHALT PAVING IS COMPLETED.
3. ALL SPOIL MATERIAL EXCAVATED FROM TRENCHES SHOULD BE EXPORTED FROM CITY PROPERTY. ALL TRENCHING MUST COMPLY WITH FEDERAL OSHA REQUIREMENTS.

Providence City Public
Works Department

Type "F" Trench
90° CROSSING TRAFFIC FLOW

DRAWING NO. T-F
REVISED 05-07-07

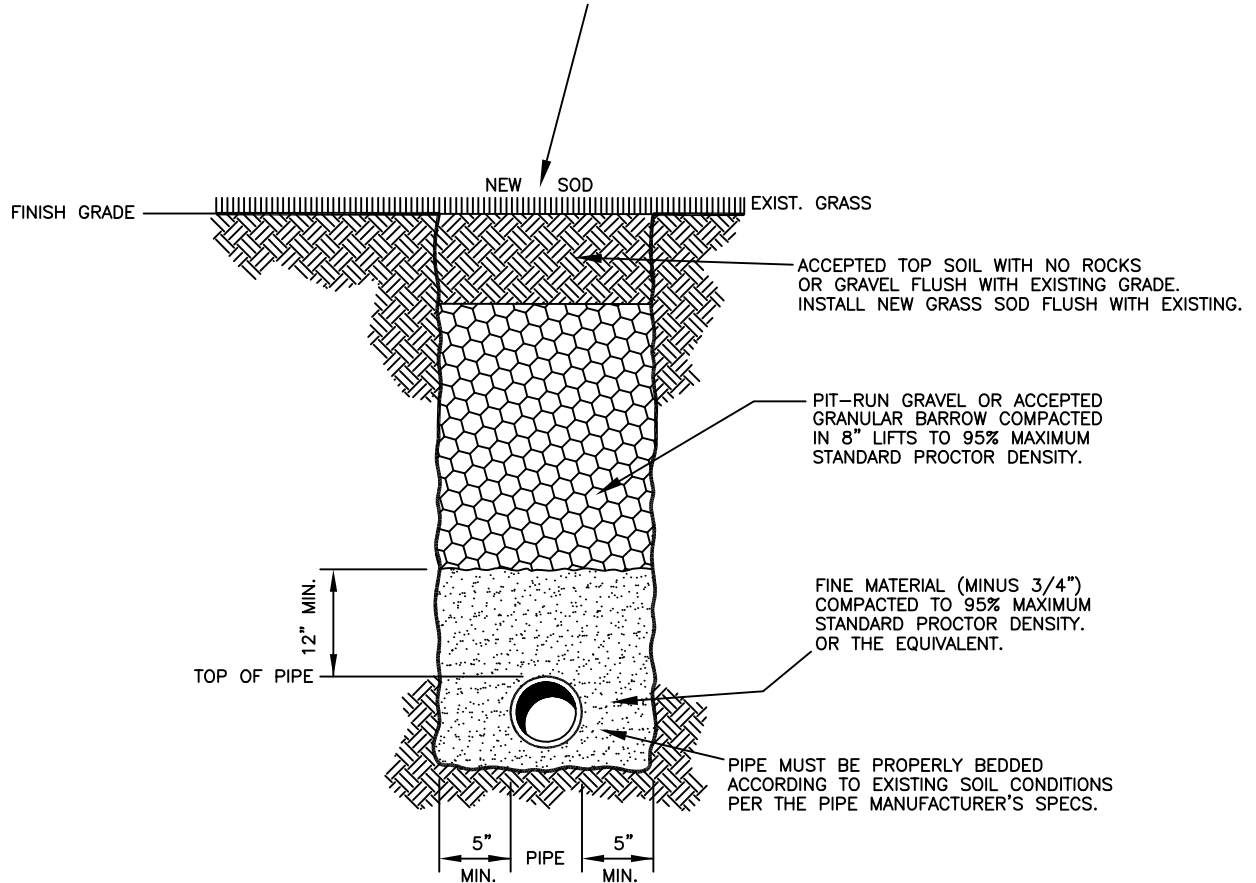


NOTES

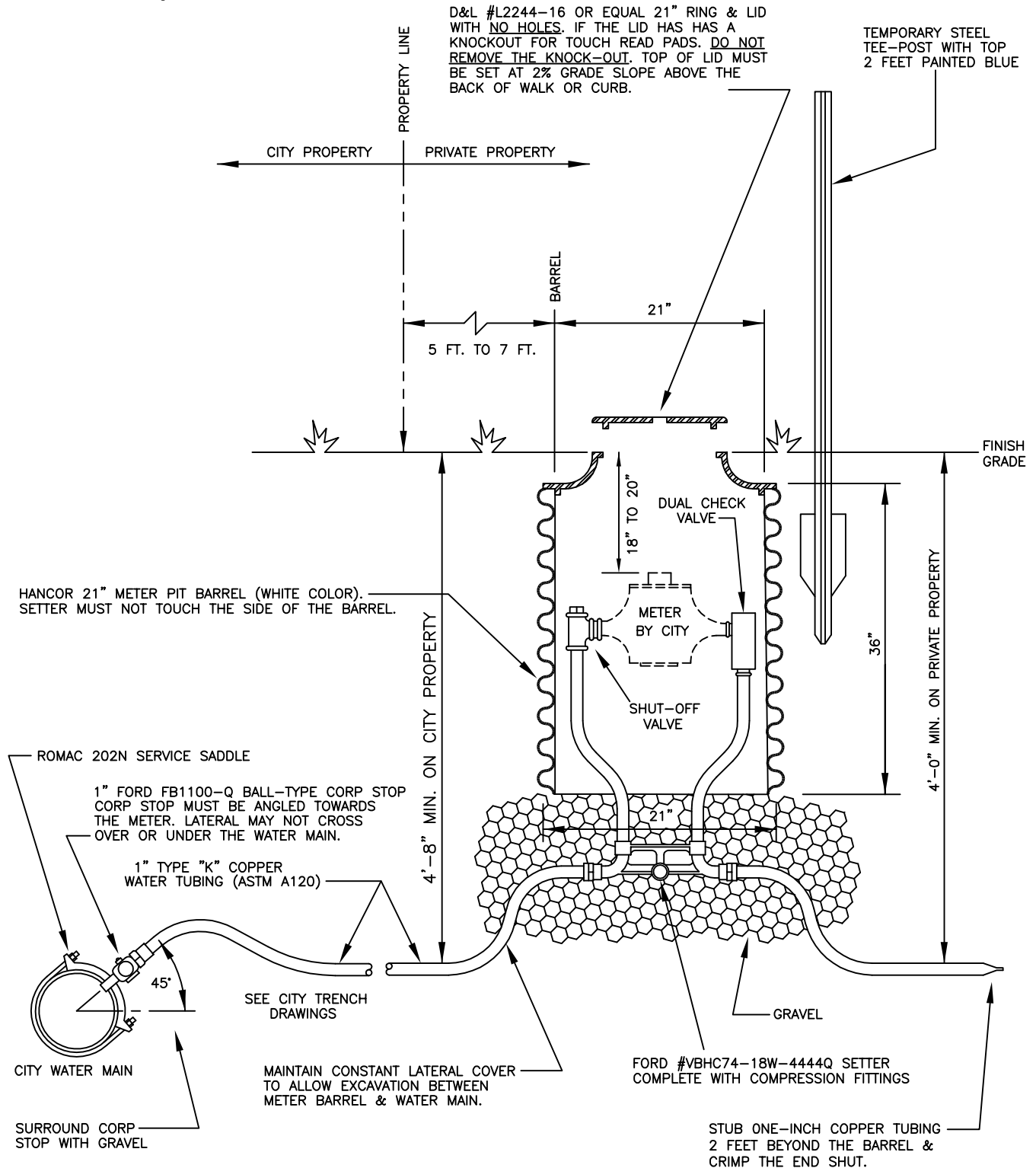
1. INSTALL 8" THICK CRUSHED GRAVEL AT THE TRENCH SURFACE. COMPACT THE GRAVEL AND ROLL IT SMOOTH AND FLUSH WITH THE EXISTING GRADE.
2. RESTORE THE FINISH SURFACE OF ALL TRENCHES ON CITY PROPERTY TO THEIR ORIGINAL OR BETTER CONDITION.
3. ALL SPOIL MATERIAL EXCAVATED FROM TRENCHES SHOULD BE EXPORTED FROM CITY PROPERTY. ALL TRENCHING MUST COMPLY WITH FEDERAL OSHA REQUIREMENTS.

ALL SPOIL MATERIAL EXCAVATED FROM TRENCHES
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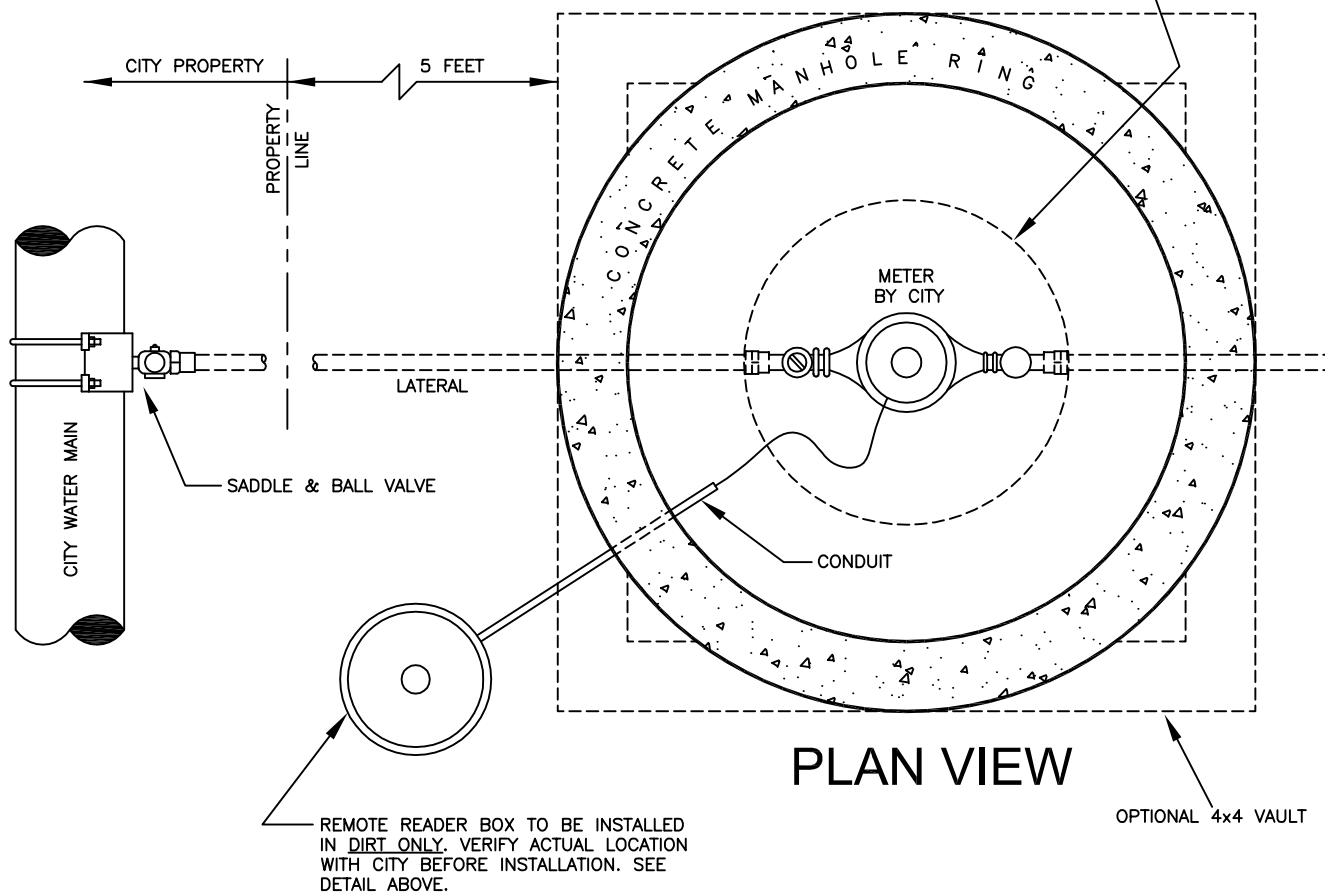
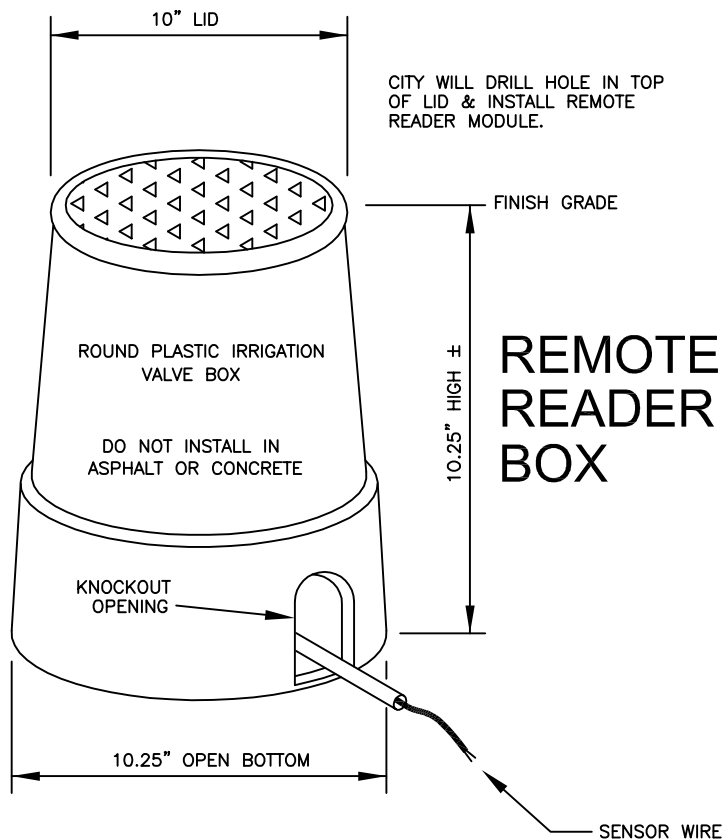
RESTORE FINISH SURFACE OF ALL TRENCHES
ON CITY PROPERTY TO ORIGINAL OR BETTER CONDITION.



All laterals are to be one continuous length of Type "K" one-inch copper tubing. No spliced joints will be allowed between the ball valve at the water main and the meter setter. The lateral is to be connected to the main with a Romac #202N service saddle and a Ford FB1100 ball valve and corp stop. The developer supplies and installs all materials from the city main to the meter, including the saddle, corp stop and ball valve, one-inch copper lateral, meter setter, shut-off valve, dual check valves, meter barrel, ring and lid.



REVISÉD 02-26-10



Providence City Public
Works Department

1-1/2 Inch
Meter Details

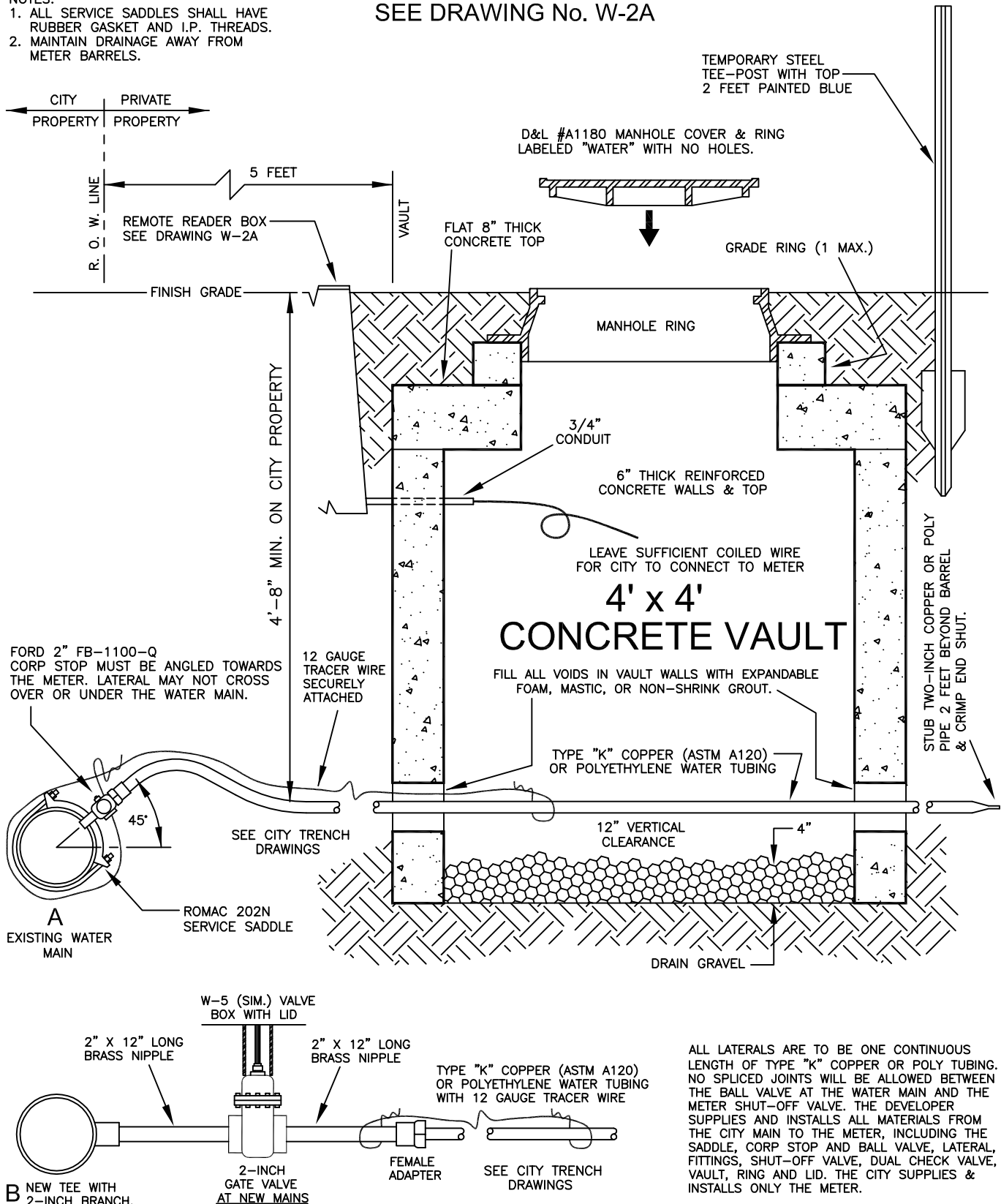
DRAWING NO. W-1B.1
REVISED 02-26-10

WATER METER VAULT VERTICAL SECTION

SEE DRAWING No. W-2A

NOTES:

1. ALL SERVICE SADDLES SHALL HAVE RUBBER GASKET AND I.P. THREADS.
2. MAINTAIN DRAINAGE AWAY FROM METER BARRELS.

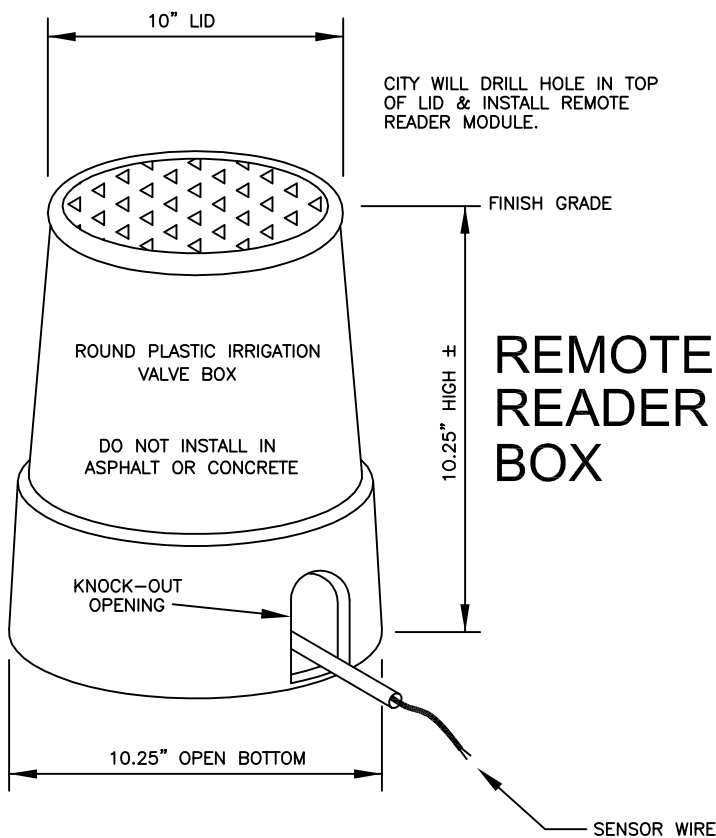


Providence City Public
Works Department

2 inch
Water Meter

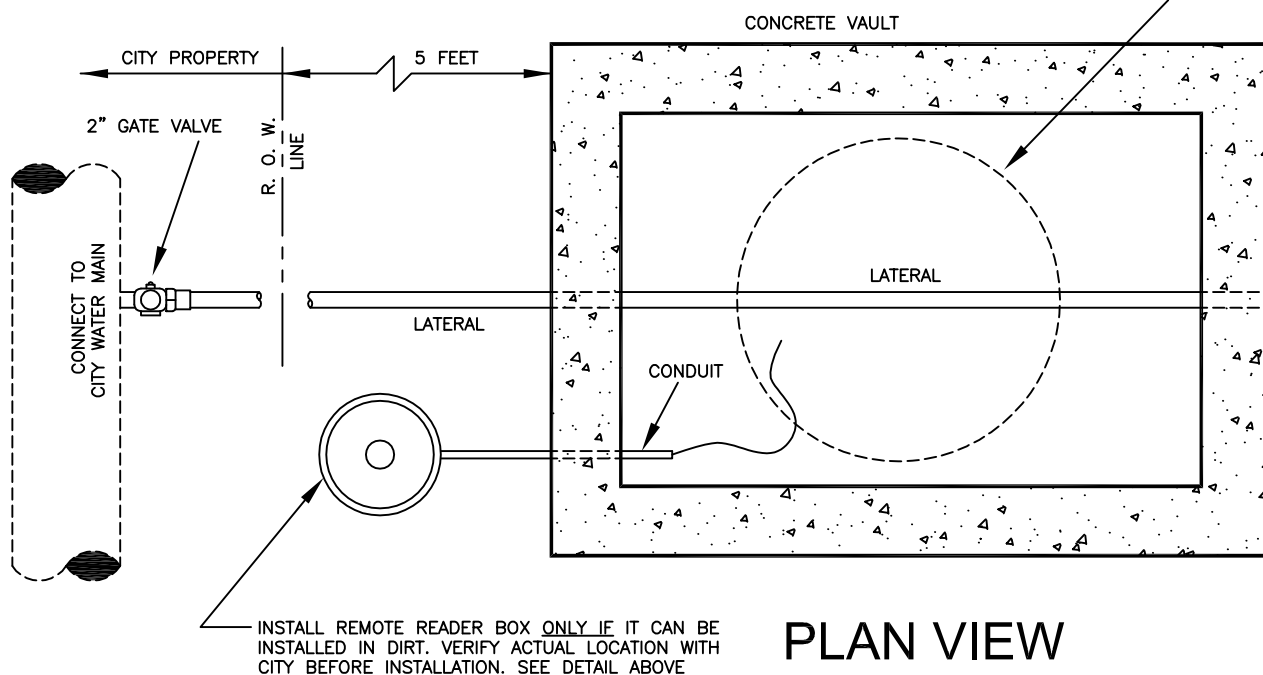
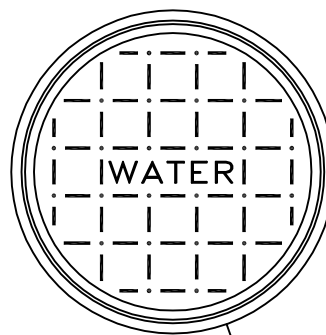
DRAWING NO. W-1C

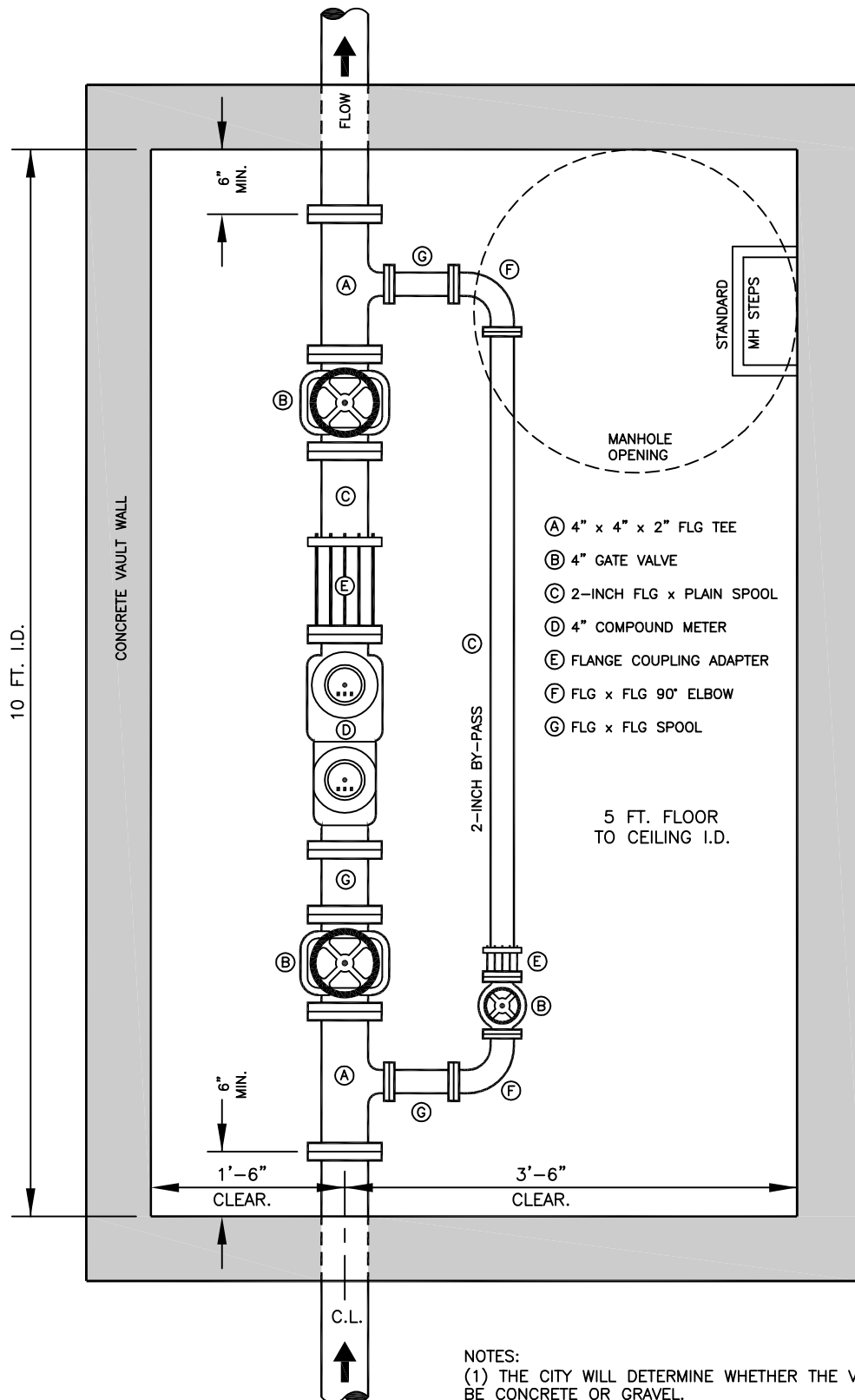
REVISED 02-26-10



MANHOLE COVER

D&L MANHOLE COVER & RING
LABELED "WATER" WITH NO HOLES.

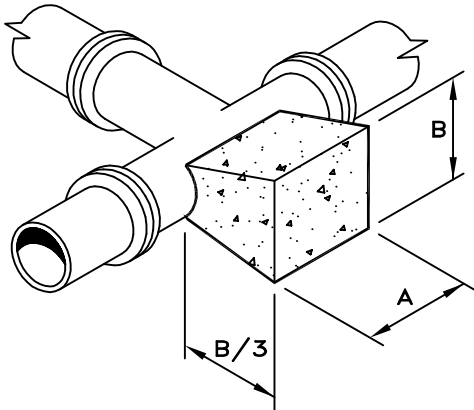




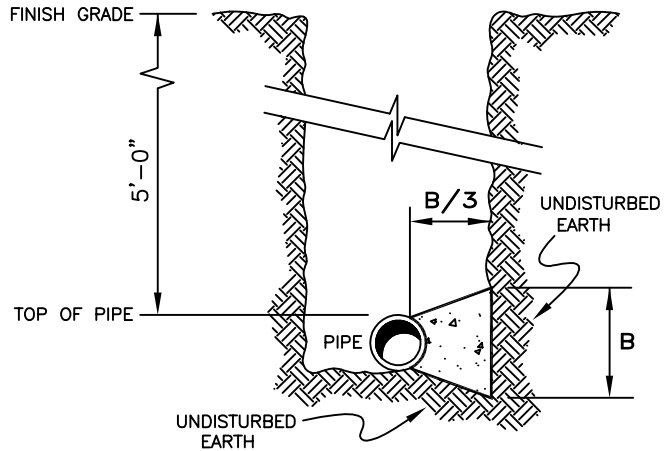
NOTES:

- (1) THE CITY WILL DETERMINE WHETHER THE VAULT FLOOR SHALL BE CONCRETE OR GRAVEL.
- (2) THE CITY WILL SPECIFY THE MAKE & MODEL OF THE METER TO BE PURCHASED & INSTALLED BY THE DEVELOPER.
- (3) THE CITY WILL SPECIFY THE NUMBER, TYPE & LOCATION OF PIPE SUPPORTS BASED ON THE FLOOR MATERIAL. NO WOOD OR BRICK STANDS WILL BE ALLOWED.
- (4) THE DEVELOPER SHALL SUPPLY & INSTALL A CITY-STANDARD GATE VALVE AT THE CONNECTION TO THE CITY'S WATER MAIN UPSTREAM OF THE VAULT.

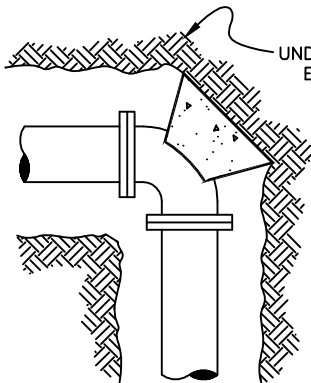
1. ALL THRUST BLOCKING MUST BE INSPECTED BY THE CITY PRIOR TO BACKFILLING THE TRENCH.
2. ALL CONCRETE SHALL BE 4,000 P.S.I. 28-DAY STRENGTH.
3. ALL THRUST BLOCKS SHALL BE FORMED.



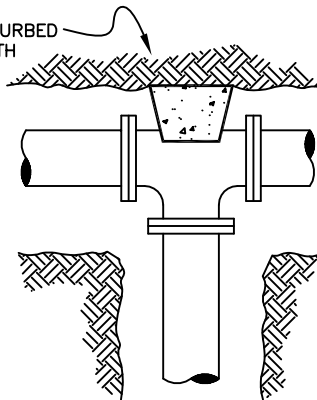
BLOCK DIMENSIONS
ISOMETRIC VIEW



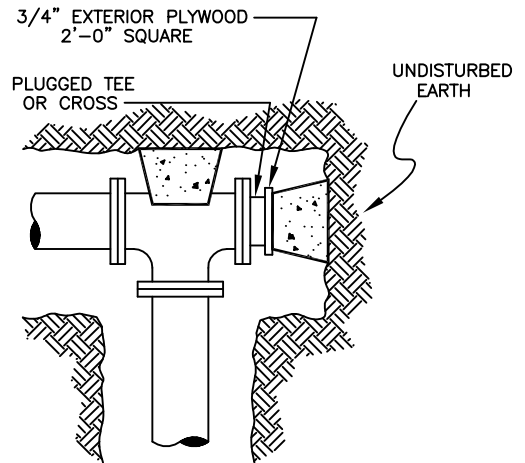
VERTICAL SECTION



BEND PLAN



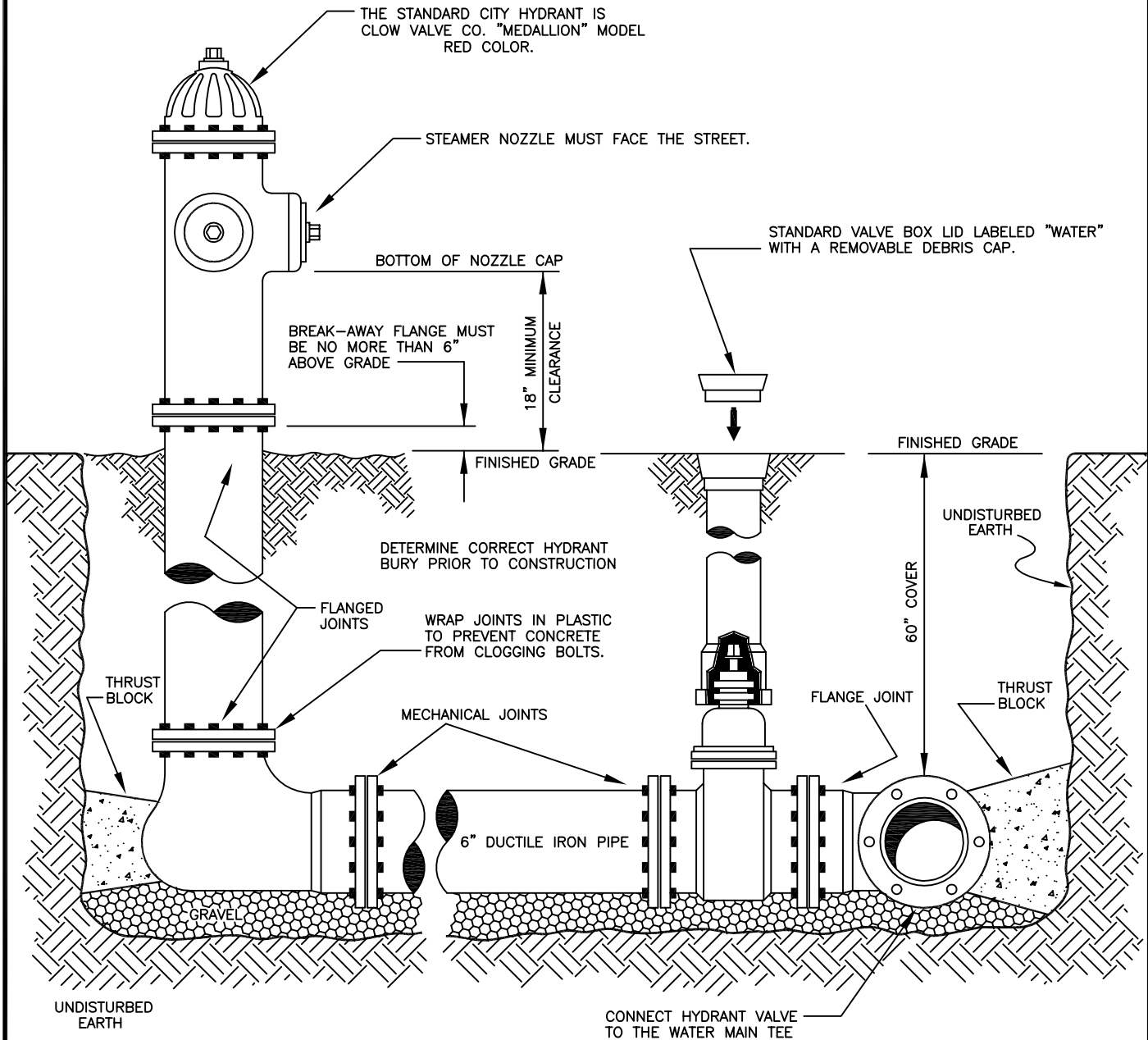
**TEE & HOT
TAP PLAN**

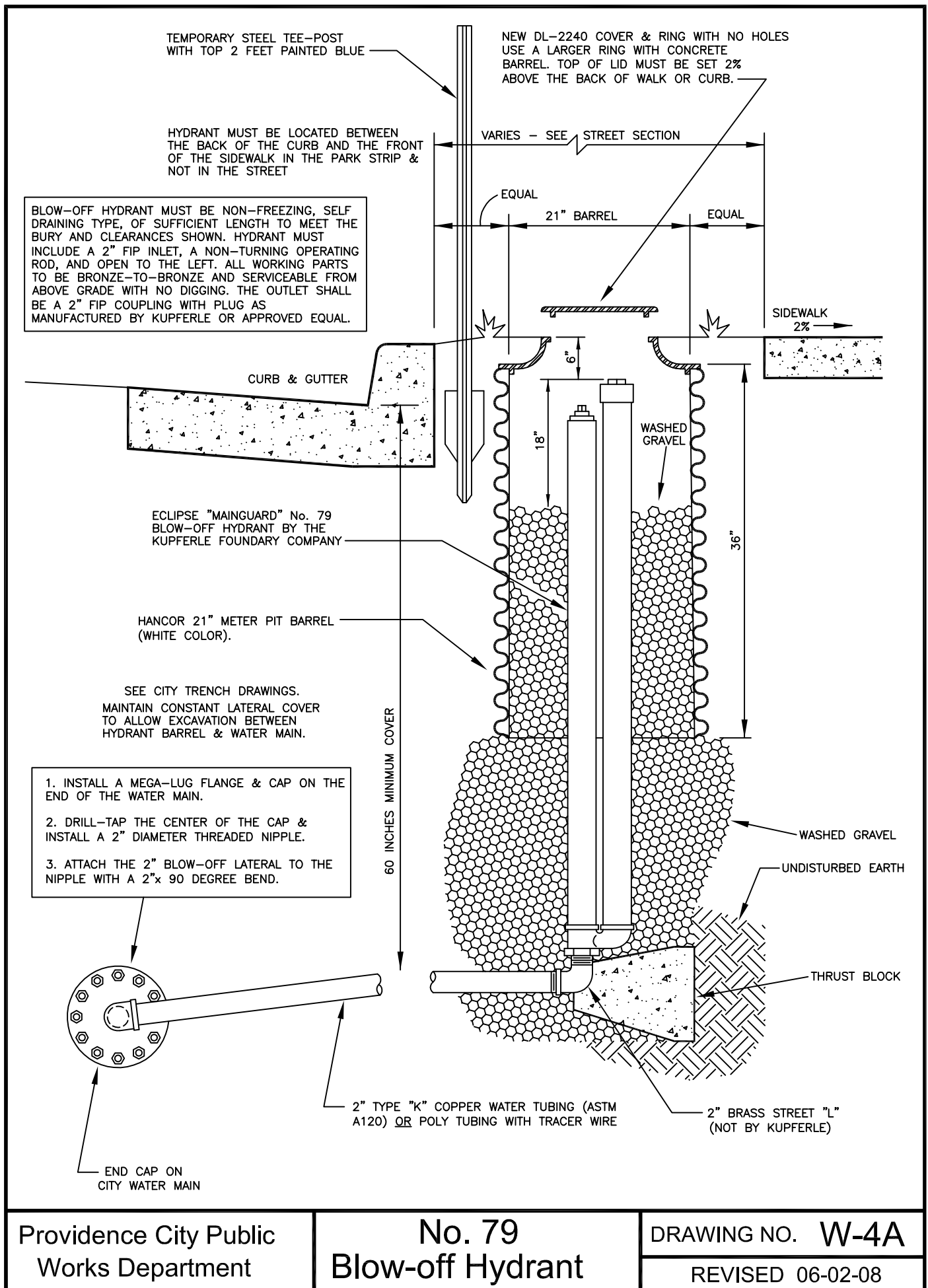


**CAPPED
TEE PLAN**

THRUST BLOCKING DIMENSIONS								
FITTING SIZES	TEES & PLUGS		90° BENDS		45° BENDS & "Y"s		22-1/2° BENDS	
	A	B	A	B	A	B	A	B
6"	2'-0"	0'-9"	2'-0"	1'-0"	1'-3"	0'-9"	1'-0"	0'-9"
8"	2'-0"	1'-0"	2'-0"	1'-3"	1'-6"	1'-0"	1'-0"	1'-0"
10"	2'-6"	1'-3"	2'-9"	1'-6"	1'-9"	1'-3"	1'-3"	1'-0"
12"	2'-3"	1'-9"	3'-3"	1'-9"	2'-0"	1'-6"	1'-6"	1'-3"
16"	3'-6"	2'-0"	4'-3"	2'-3"	3'-0"	1'-9"	1'-9"	1'-6"

LOCATE THE HYDRANT BETWEEN THE BACK OF THE CURB & THE FRONT OF THE SIDEWALK.
INSTALL PLUMB WITH THE NOZZLES FACING THE STREET.



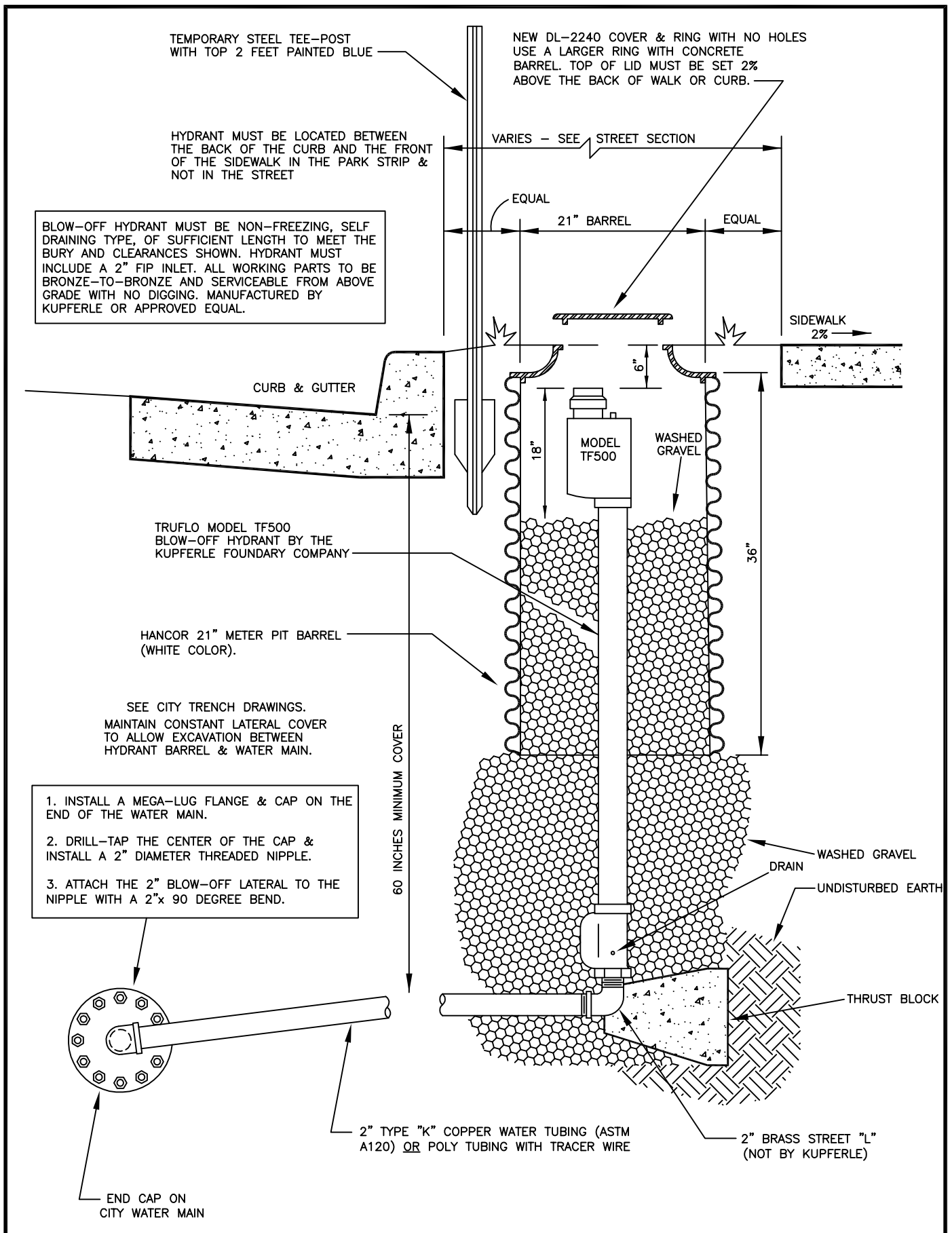


Providence City Public
Works Department

No. 79 Blow-off Hydrant

DRAWING NO. W-4A

REVISED 06-02-08

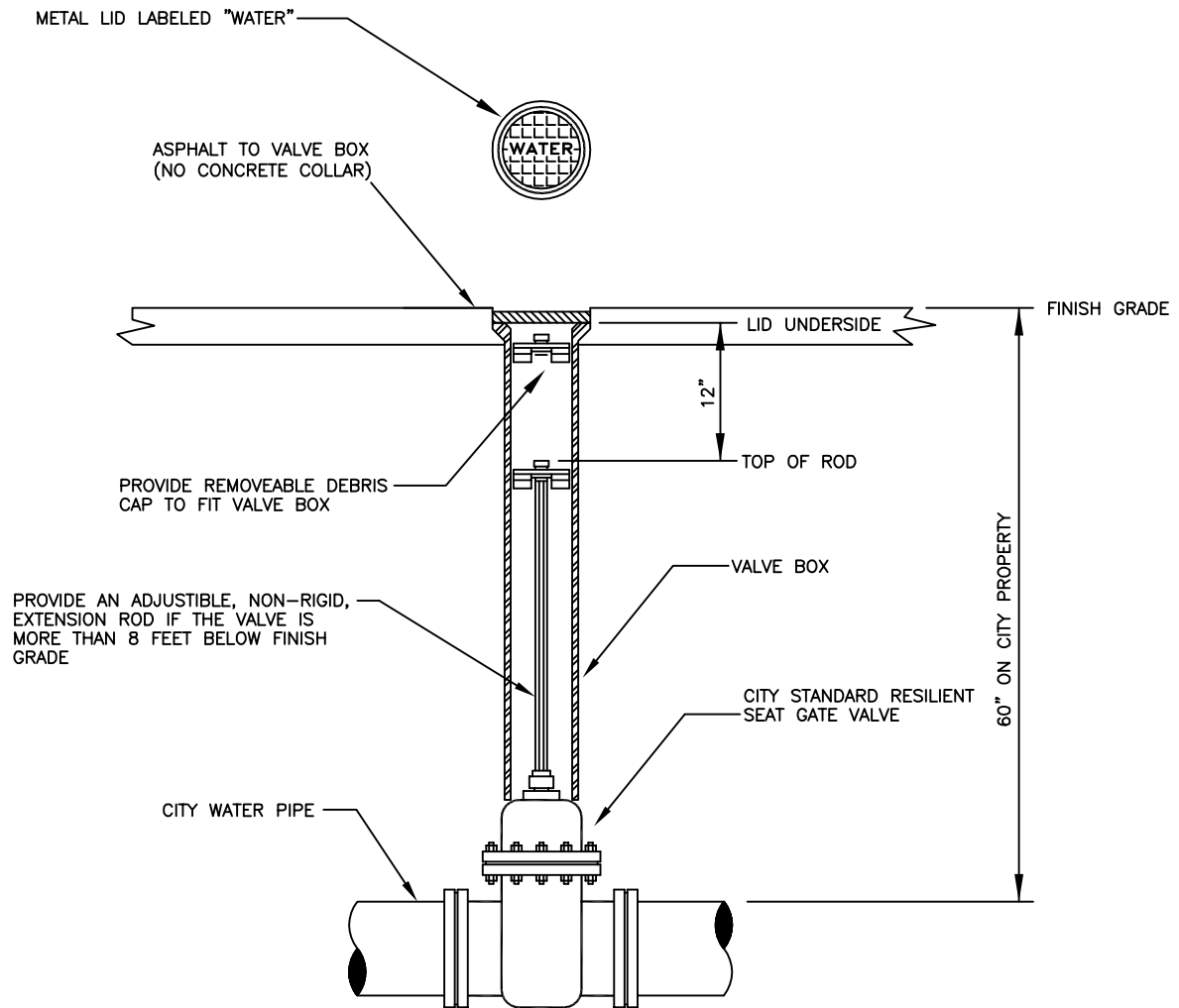


Providence City Public
Works Department

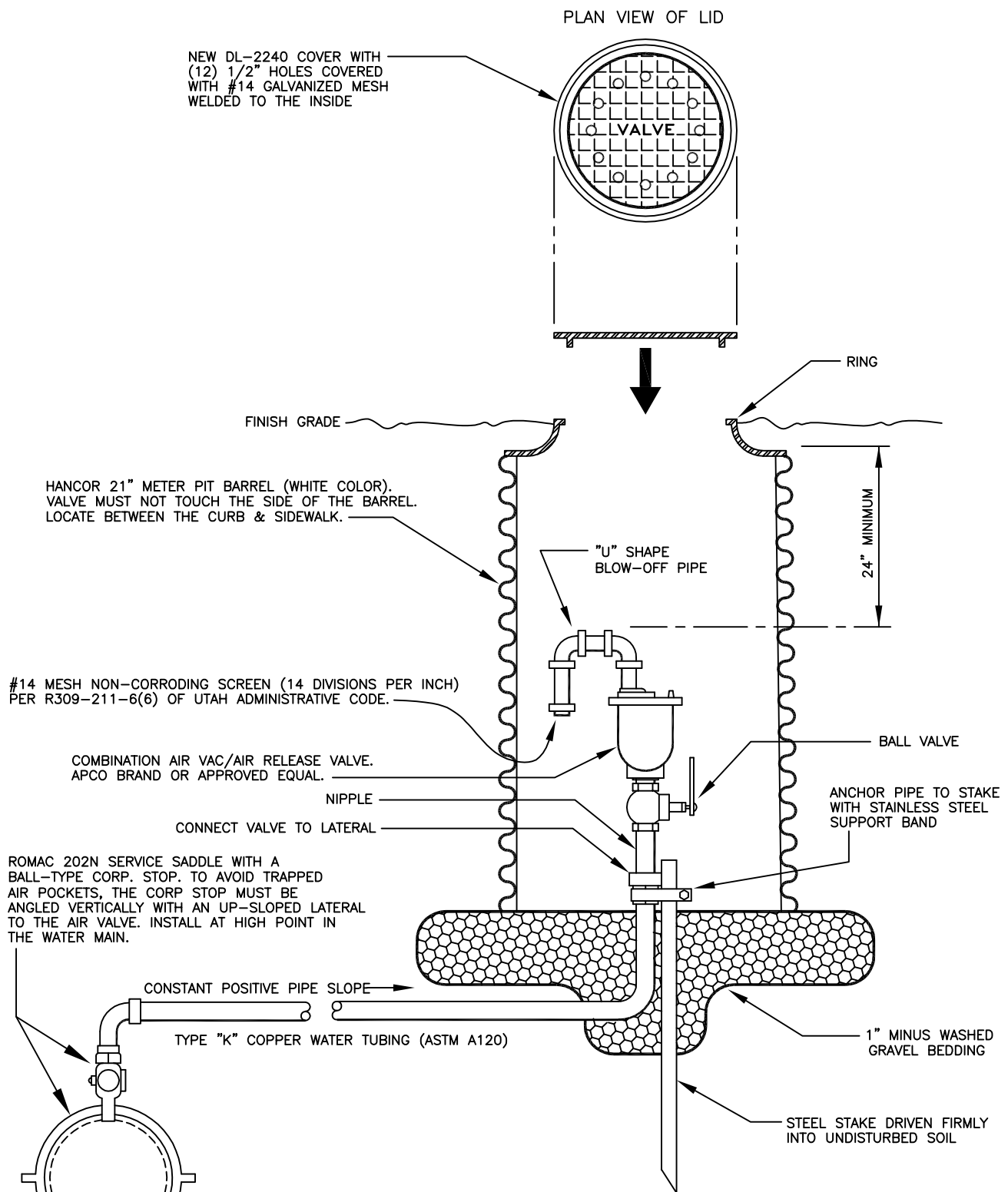
TF500 Blow-off Hydrant

DRAWING NO. W-4B

REVISED 06-02-08



GATE VALVE & VALVE BOX



COMBINATION AIR-VACUUM AIR RELEASE VALVE

VALVE, PIPE & FITTINGS TO BE SIZED BY ENGINEER.

Providence City Public
Works Department

Air-Vac Valve

DRAWING NO. W-6

REVISED 06-02-08