

**STANDARD DRAWINGS  
2015**



# STANDARD DRAWINGS

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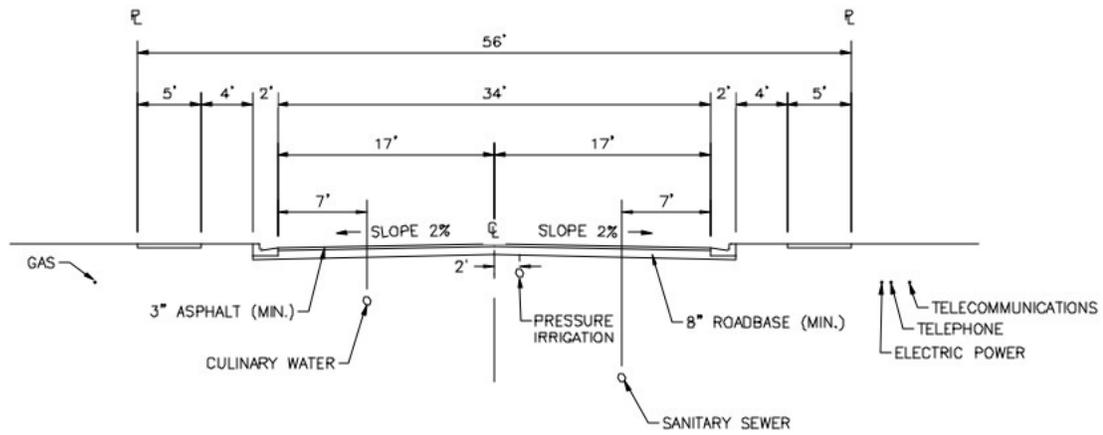
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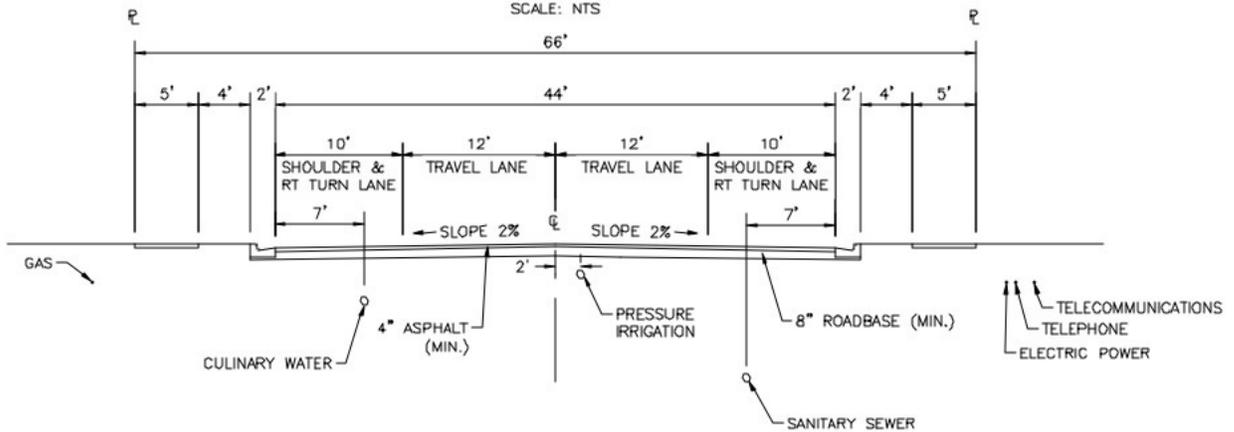
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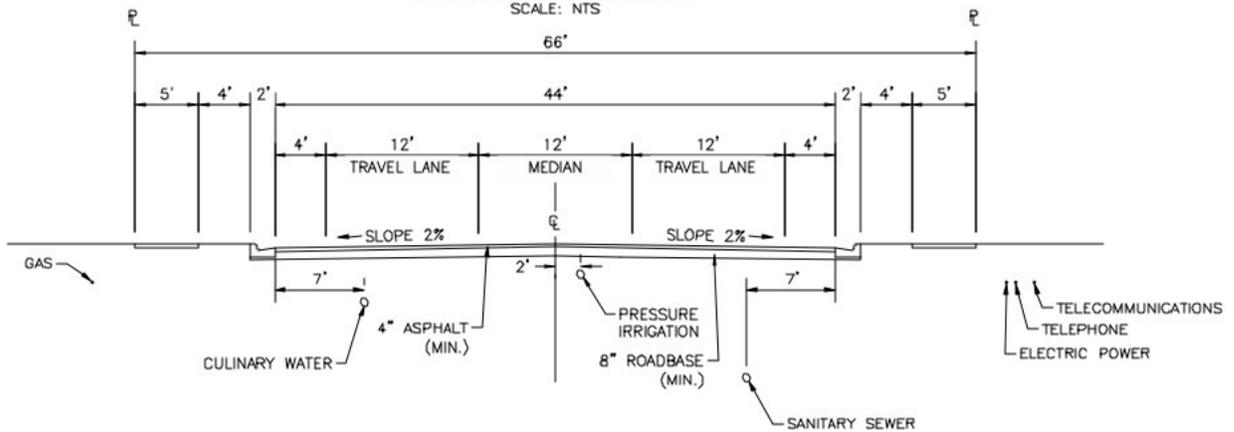
**56' STREET CROSS-SECTION  
STANDARD SUBDIVISION STREET  
LOOKING NORTH OR EAST**

SCALE: NTS



**66' STREET CROSS-SECTION  
TWO LANE MINOR COLLECTOR  
LOOKING NORTH OR EAST**

SCALE: NTS



**66' STREET CROSS-SECTION  
THREE LANE MINOR COLLECTOR  
LOOKING NORTH OR EAST**

SCALE: NTS

**NOTES:**

- WHENEVER POSSIBLE, CULINARY WATER LINES SHALL BE INSTALLED ON THE NORTH AND WEST SIDE OF THE STREET.
- MANHOLES AND VALVES SHALL BE ADJUSTED OUT OF TIRE TRAVEL LANE.
- FIRE HYDRANTS SHALL BE LOCATED EVERY 400 FEET AND ON THE SAME SIDE AS THE CULINARY WATER LINES OR AS APPROVED BY THE CITY.
- REQUIRED UTILITY PIPE SIZES AS FOLLOWS:  
CULINARY WATER - 8" MIN  
PRESSURE IRRIGATION - 8" MIN  
SANITARY SEWER - 8" MIN  
STORM DRAIN - 15" MIN
- REQUIRED COVER OVER UTILITY LINES AS FOLLOWS:  
CULINARY WATER - 48" TO 60"  
PRESSURE IRRIGATION - 24" TO 36"  
SANITARY SEWER - 10' TO 12'  
STORM DRAIN - PER DESIGN  
ALL OTHERS - PER UTILITY

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MINOR STREET CROSS SECTIONS

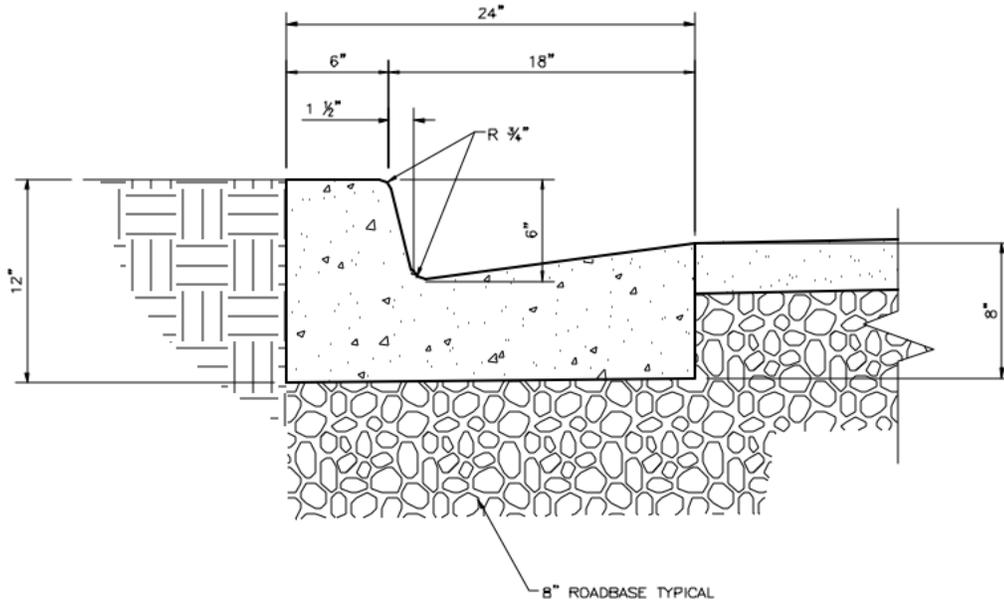
STD DWG #

**ST-01**

NO.	REVISION DESCRIPTION	BY	APR.	DATE	LAST UPDATED:
					3/4/2015



NOTE:  
 CONTRACTION JOINTS EVERY 10' MAXIMUM AND EXPANSION  
 JOINTS EVERY 50' MAXIMUM.



**24" CURB AND GUTTER DETAIL**  
 SCALE: NTS

FILED: 2/9/2015 2:01 PM Filed By: Chris Wilson  
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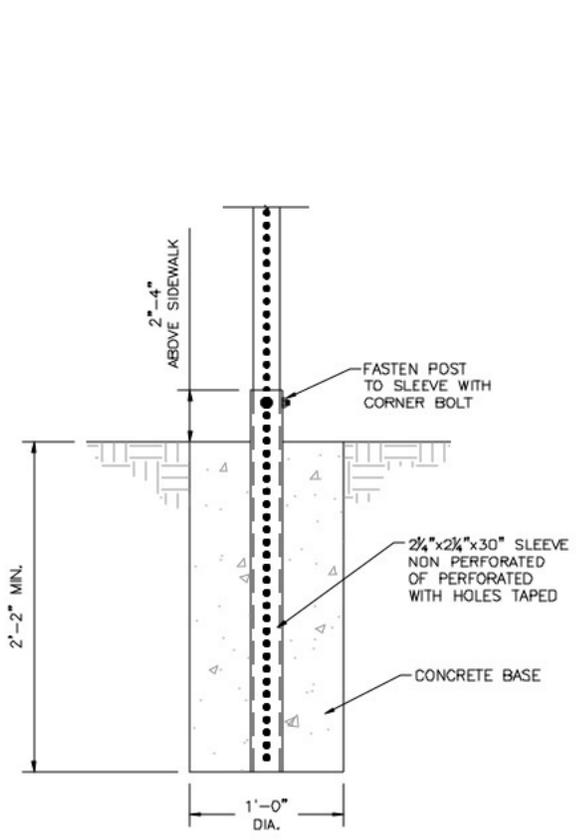
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CURB AND CUTTER DETAIL

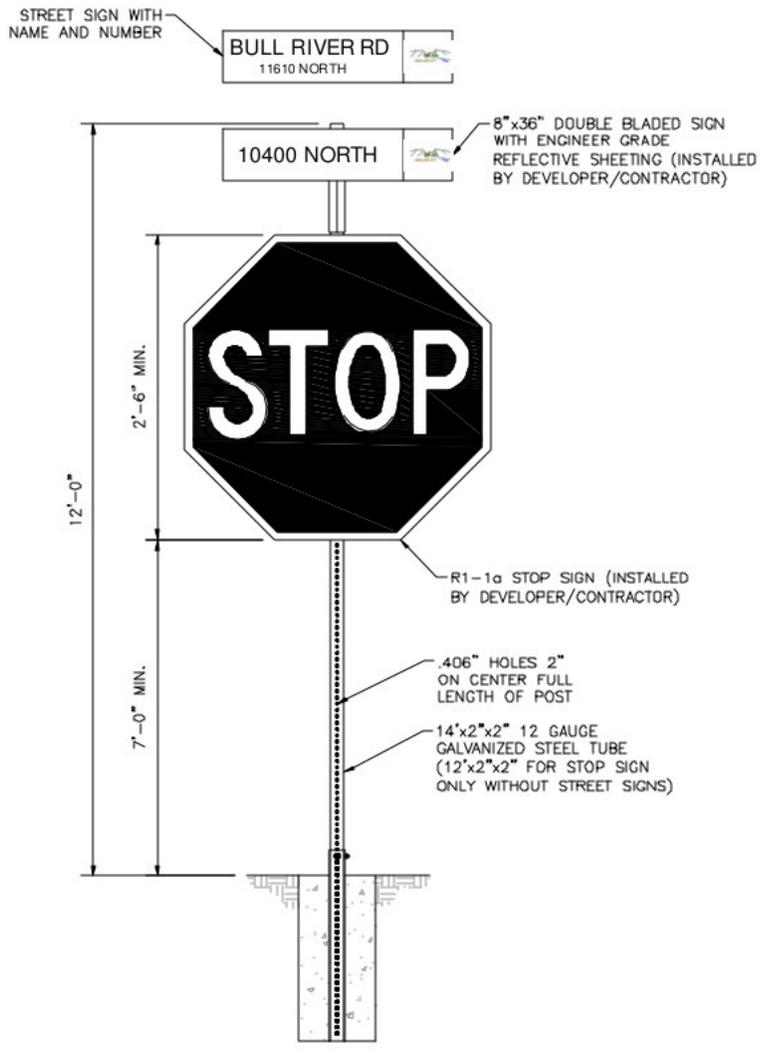
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**ST-03**

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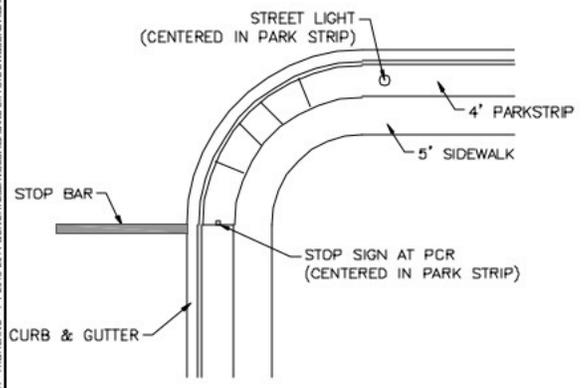
**GROUND INSTALLATION DETAIL**  
(W/ONE PIECE BREAKAWAY ANCHOR)  
SCALE: NTS



**TYPICAL STREET/STOP SIGN INSTALLATION**  
SCALE: NTS

**NOTES:**

1. STREET SIGN SHALL BE 8"x36" DOUBLE BLADED WITH HIGHLAND LOGO. IF THE STREET HAS A NAME, THE NAME SHALL BE PLACED ABOVE IN LARGE LETTERS AND THE NUMBER BELOW IN SMALL LETTERS. (INSTALLED BY DEVELOPER/CONTRACTOR)
2. ALL STOP SIGNS SHALL BE TYPE 9 "DIAMOND GRADE".
3. CONTRACTOR/DEVELOPER SHALL COORDINATE STAKING LOCATION WITH PUBLIC WORKS REPRESENTATIVE.



**TYPICAL STREET/STOP SIGN AND LIGHT LOCATION PLAN VIEW**  
SCALE: NTS

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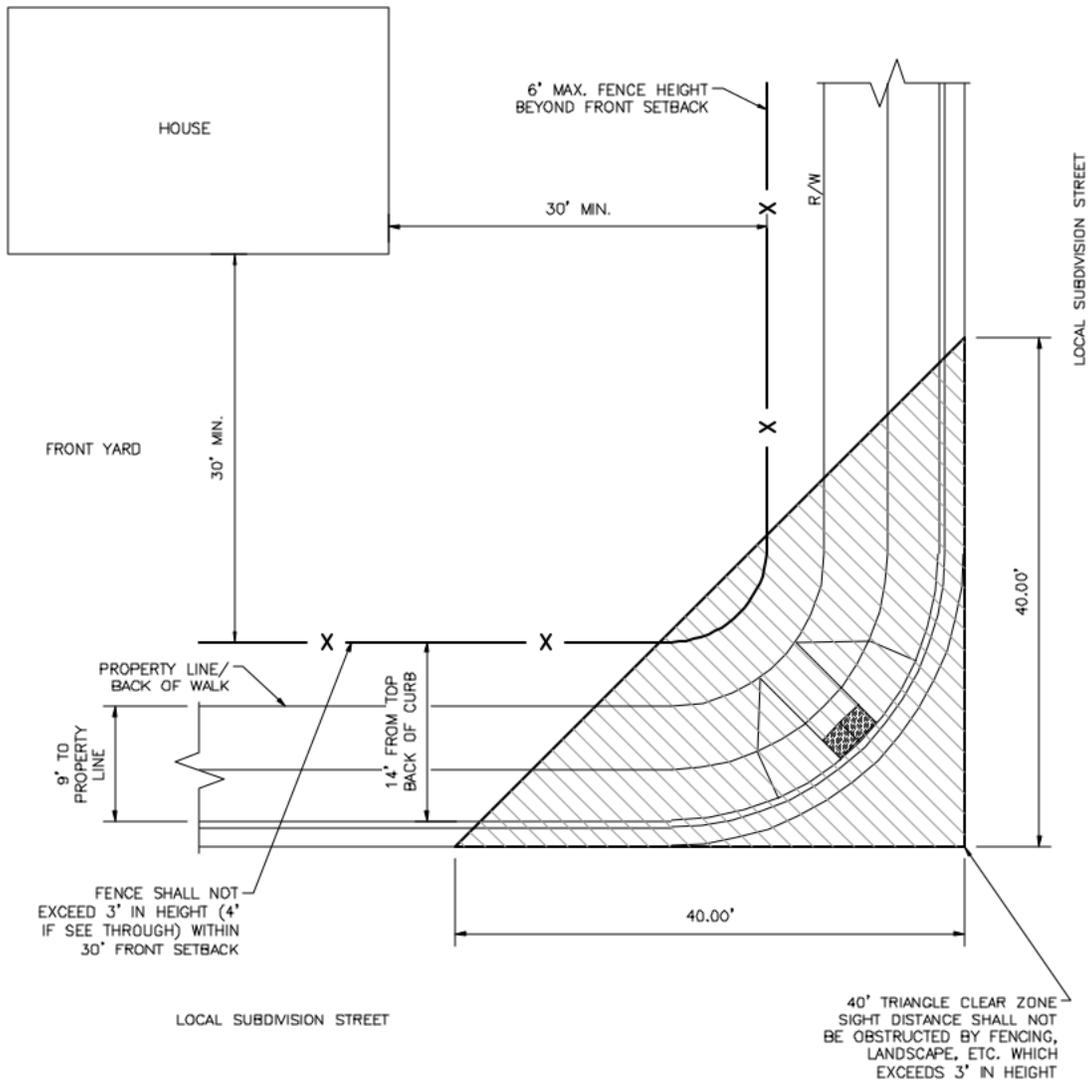
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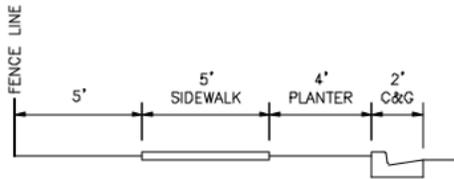


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 STOP SIGN DETAIL

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**ST-04**



**SIGHT TRIANGLE**  
SCALE: NTS



**TYPICAL CROSS SECTION LOCAL STREETS**  
SCALE: NTS

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SITE TRIANGLE DETAIL

STD DWG #  
**ST-05**

**GENERAL NOTES:**

1. THE PARKWAY IS DESIGNED AS A 29 FOOT WIDE STRIP WITH A 5 FOOT MEANDERING SIDEWALK, LANDSCAPING AND FENCE.
2. THE LENGTH OF THE PARKWAY WILL BE SOD OR PLANTED GRASS. THE TREES WILL BE SPACED AN AVERAGE OF 30 FEET APART AND NO CLOSER THAN 7.5 FEET FROM THE CURB OR THE FENCE. EACH TREE MUST HAVE A 24 INCH CEMENT MOW RING FOR MAINTENANCE. THIS WILL ALLOW FOR MOWING EQUIPMENT TO MANEUVER AROUND TREES.
3. ALL TREES WILL BE AT LEAST 2 INCH CALIPER AND BE PROPERLY STACKED. TREES WILL BE GUARANTEED BY THE DEVELOPER FOR 18 MONTHS AFTER PLANTING. TREE TYPES ARE TO BE APPROVED AS ON THE CITY TREE COMMITTEE LIST. ANY SUBSTITUTES MUST BE APPROVED BY HIGHLAND CITY.
4. THE BACK SIDE OF THE PARKWAY SHALL HAVE A 6 FOOT HIGH QUALITY FENCE CONSTRUCTED OF BRICK, PRE-CAST CONCRETE, WROUGHT IRON, OR BLOCK APPROVED BY THE CITY.
5. SIDEWALK SHOULD BE INSTALLED WITH GRADUAL CURVES IN A RANDOM, LESS STRUCTURED FORMAT.
6. THE ENTRANCE WAYS TO SUBDIVISIONS WILL BE BORDERED BY 20 FOOT BY 15 FOOT PLANTER AREAS WITH NUMEROUS TREES, SHRUB, ROCKS AND GROUND COVER. SUCH ENTRANCE WAYS SHALL CONFORM TO THE CLEAR SIGHT REQUIREMENTS WITH VEGETATION IN THE CLEAR SIGHT ARE NOT CAPABLE OF GROWING OVER 2 FEET IN HEIGHT.

**PARKWAY LANDSCAPING DETAIL PLAN**

THIS PLAN WILL BE SUBMITTED BY THE DEVELOPER AT THE TIME OF PRELIMINARY SUBDIVISION APPROVAL AND WILL INCLUDE THE FOLLOWING:

1. THE PROPOSED LOCATION OF TREES WITH THE EXACT LOCATION TO BE APPROVED BY THE CITY INSPECTOR AT THE TIME OF PLANTING.
2. FENCE DESIGN.
3. SIDEWALK DESIGN.
4. TOPOGRAPHY OF PARKWAY.
5. PLANTER AREA DESIGN.

**SPRINKLING SYSTEM**

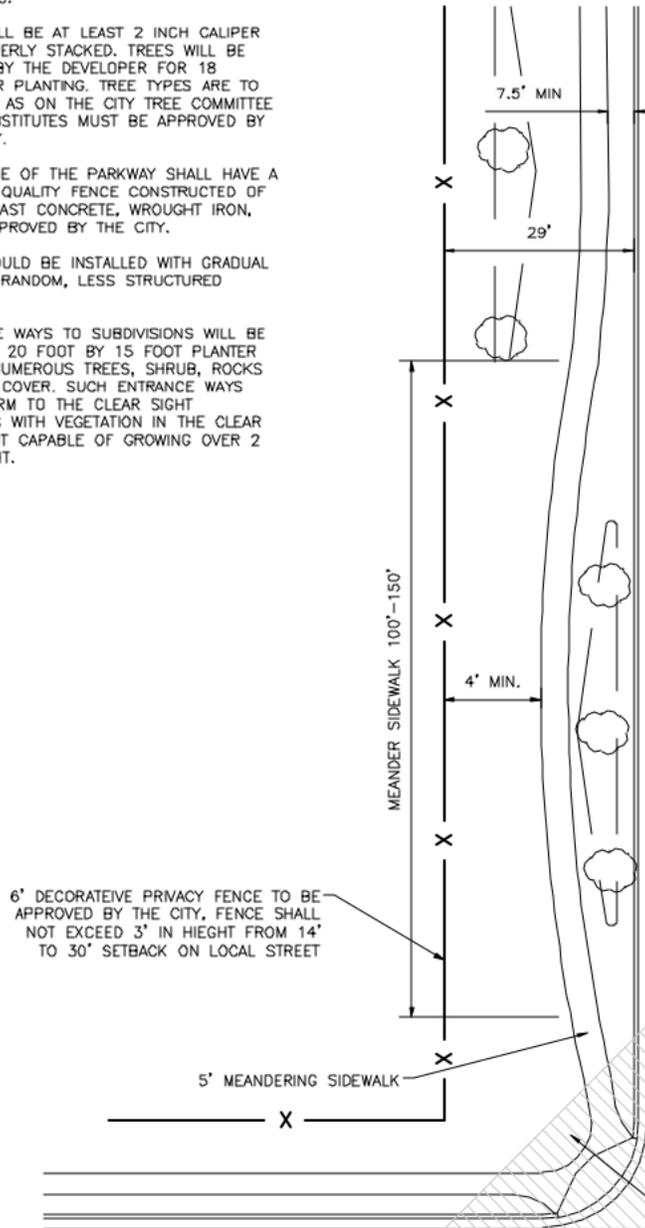
THE MAJORITY OF THE PARKWAY WILL BE WATERED WITH THE "HUNTER 1-20 POP-UP HEAD", OR EQUIVALENT. SPRINKLER HEADS WILL BE SPACED AT 30 FOOT INTERVALS. EACH WILL COVER A 30 FOOT ARC. PLANTER AREAS WILL BE CONTROLLED BY A SEPARATE VALVE SYSTEM. SPRINKLER HEADS WILL BE "RAIN BIRD 1800 HEADS" OR EQUIVALENT. SPACING WILL BE AT 15 FOOT INTERVALS AROUND THE PLANTERS. SPRINKLER HEADS WHICH BACK ONTO THE CURB SHALL NOT BE ROTOR TYPE. ALL VALVE BOXES SHALL BE INSTALLED AWAY FROM THE CURB, PREFERABLY ON THE BACK SIDE OF THE SIDEWALK.

**GENERAL LANDSCAPE DESIGN**

ALL GRASS AREAS TO BE HYDRO SEEDING OF SOD. THE GRASS WILL BE SEEDING FIRST AND AFTER GROWTH IS ESTABLISHED, THE TREES WILL BE PLANTED. BERM THE BACK PORTION OF THE GRASS AREA FROM THE SIDEWALK TO THE FENCE AND FRONT PORTION OF THE GRASS AREA FROM THE SIDEWALK TO THE CURB. THE BERMS SHALL BE 2 FEET HIGH IN THE WIDE AREAS AND SLOPING DOWN THE RELATIVELY FLAT BERM IN THE NARROW AREAS.

**PLANTER AREAS**

DECORATIVE PLANTERS ARE PLANNED AT ALL ENTRANCES TO THE SUBDIVISION. THE BASIC SIZE OF THE PLANTERS WILL BE APPROXIMATELY 20 FOOT BY 15 FOOT AND EACH WILL BE DECORATED WITH A VARIETY OF TREES, SHRUBS, ROCKS, AND GROUND COVER. VEGETATION MAY NOT INFRINGE ON THE REQUIRED CLEAR AREA. GROUND COVER WITHIN THE PLANTER WILL BE SHREDDED BARK APPROXIMATELY 2 INCHES IN DEPTH. PLANTERS MUST HAVE A CEMENT MOW EDGE FOR MAINTENANCE. THE SUGGESTED DESIGN OF THE PLANTER IS INDICATED IN THE OUTLINE SPECIFIED ABOVE.



NO OBSTRUCTIONS EXCEEDING 3' IN HEIGHT WITHIN SITE TRIANGLE

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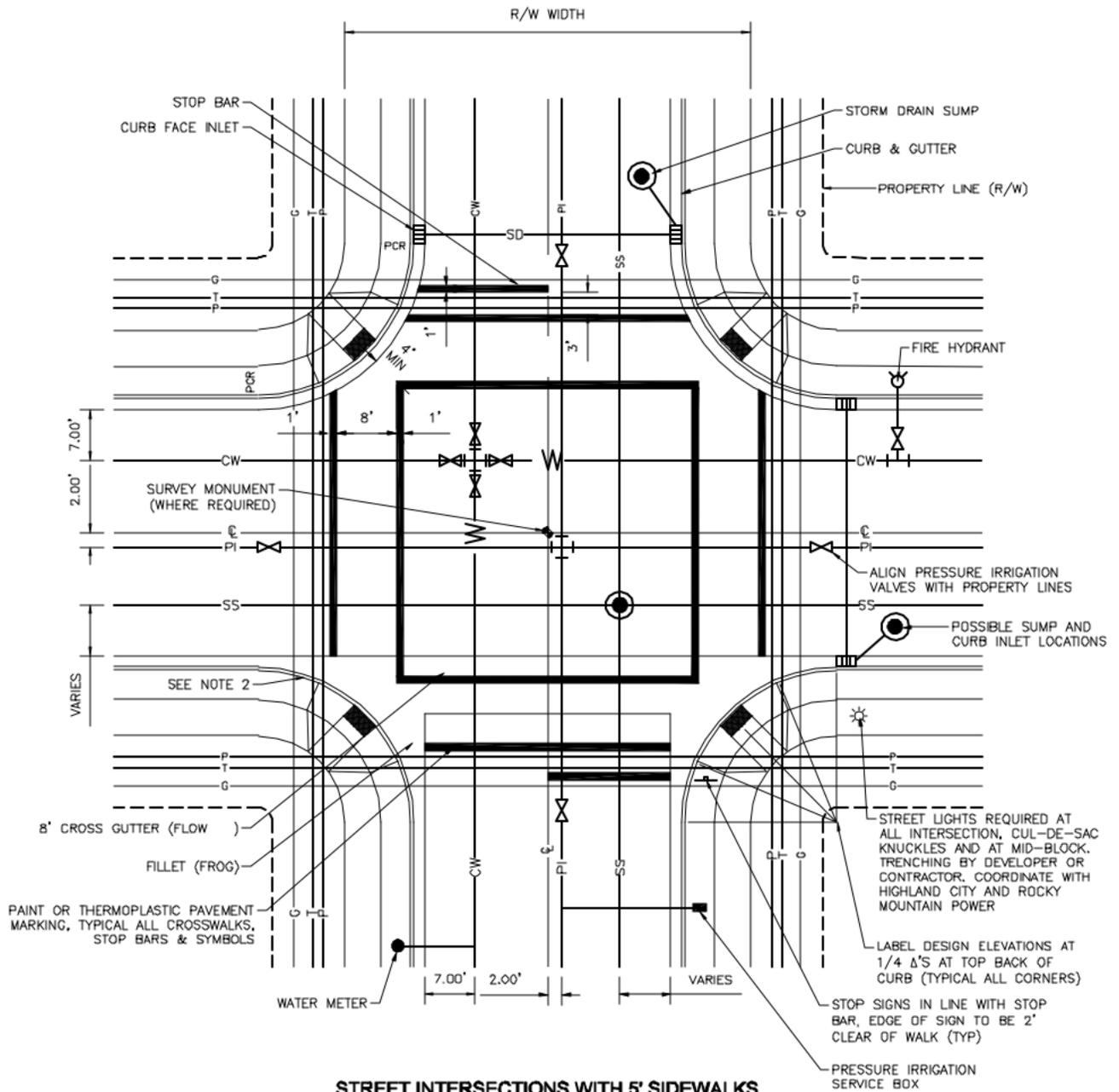
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**HIGHLAND CITY**  
**PUBLIC WORKS AND ENGINEERING**  
 PARKWAY LANDSCAPE DETAIL

STD DWG #  
**ST-06**



**STREET INTERSECTIONS WITH 5' SIDEWALKS**  
SCALE: NTS

**NOTE:**

- CROSS GUTTERS ARE NOT PERMITTED WHERE SURFACE WATER CAN BE PICKED UP IN A STORM DRAIN.

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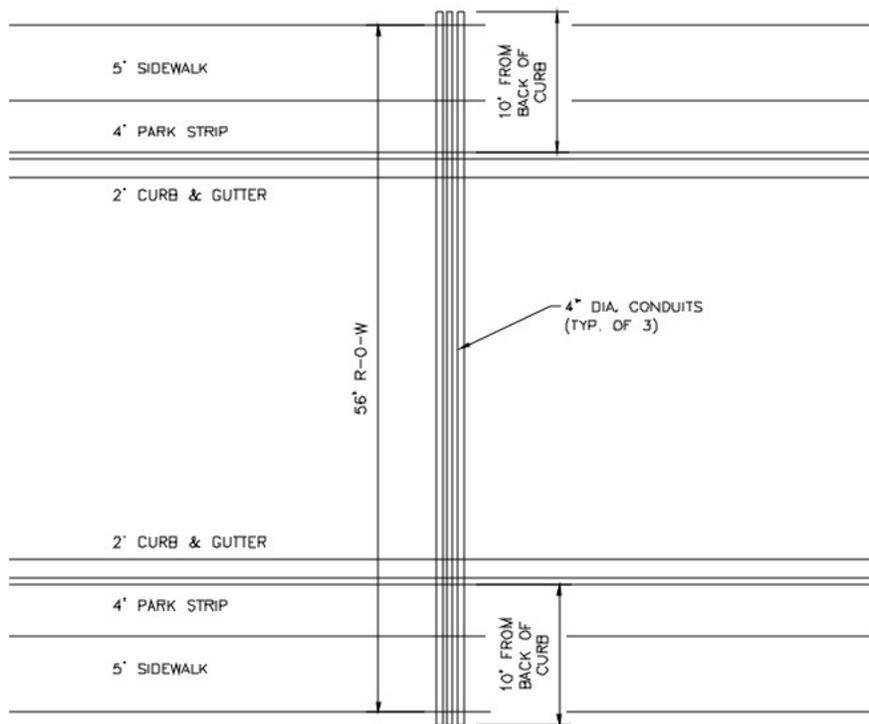
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UTILITY LOCATIONS AT INTERSECTIONS

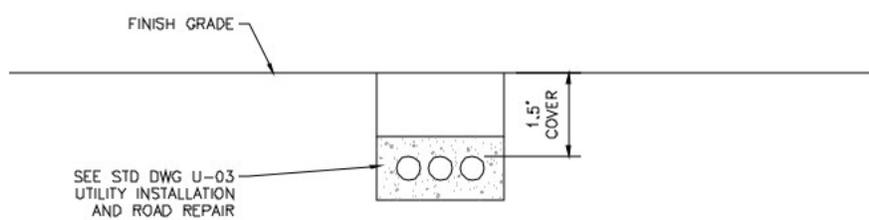
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**U-01**

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**PLAN VIEW**  
SCALE: NTS



**CROSS SECTION**  
SCALE: NTS

**NOTES:**

1. ALL CONDUITS SHALL BE 4" DIA. SCH. 40, GREY PVC.
2. ALL CONDUITS SHALL BE BEDDED IN SAND, WITH 1.5" OF COVER FROM FINISH GRADE.
3. THE ENDS OF EACH CONDUIT SHALL BE TAPED OR CAPPED TO PREVENT DIRT FROM ENTERING.
4. ALL CONDUITS SHALL BE SURROUNDED BY A MIN. 4" THICKNESS OF 3/4" MINUS MATERIAL.
5. PULL WIRE REQUIRED.

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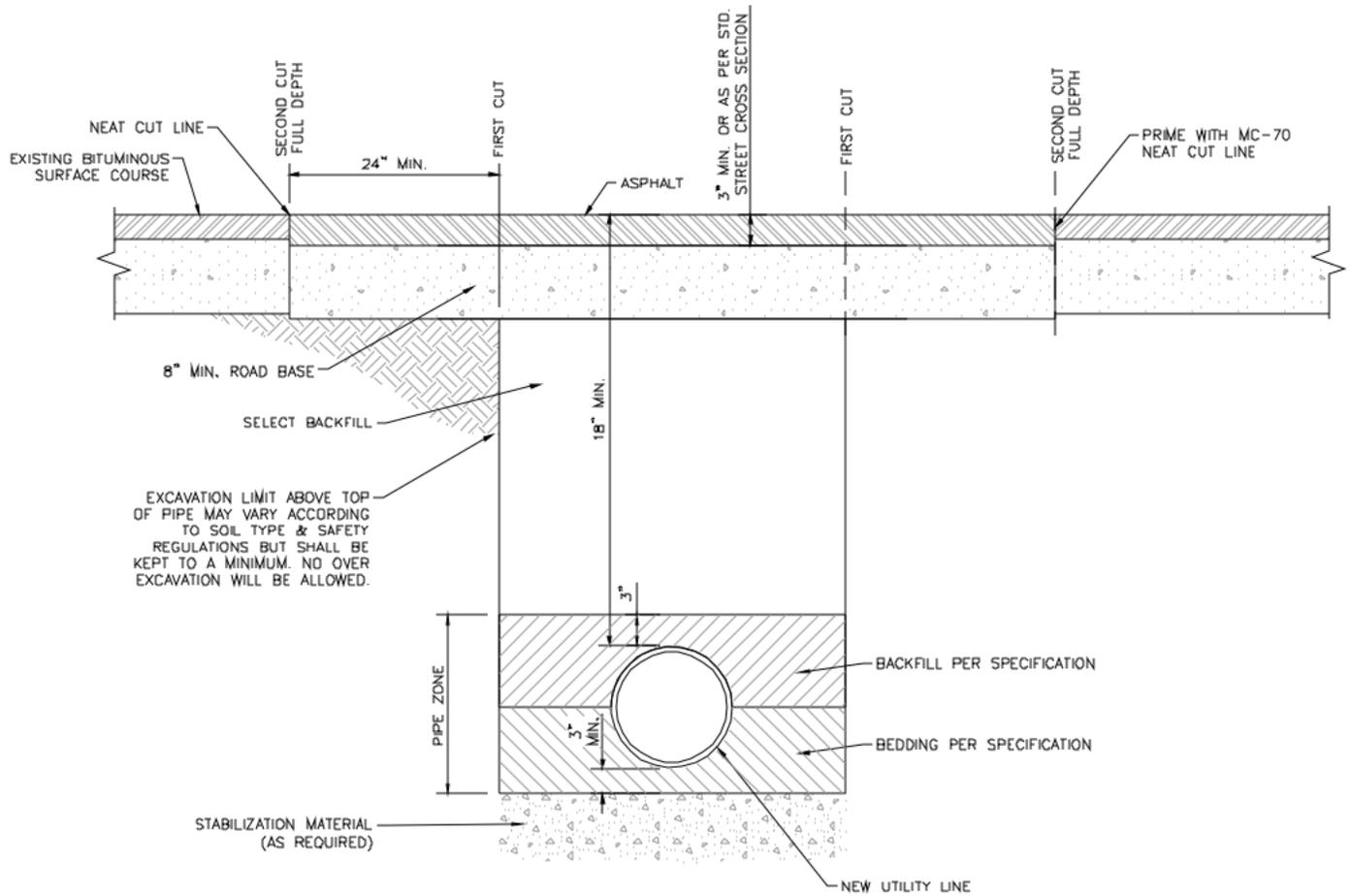
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**HIGHLAND CITY**  
**PUBLIC WORKS AND ENGINEERING**  
 CONDUIT BANK DETAIL

STD DWG #  
**U-02**



EXCAVATION LIMIT ABOVE TOP OF PIPE MAY VARY ACCORDING TO SOIL TYPE & SAFETY REGULATIONS BUT SHALL BE KEPT TO A MINIMUM. NO OVER EXCAVATION WILL BE ALLOWED.

**NOTE:**

1. NO SAW CUT JOINT SHALL BE IN THE TIRE PATH. IF PATCH JOINT ENDS WITHIN 2" OF CURB, PATCH MUST GO TO CURB.
2. USE APWA AS GUIDE (PLAN # 255).
3. PG 58-28 PERFORMANCE GRADED ASPHALT.

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UTILITY TRENCH CROSS SECTION

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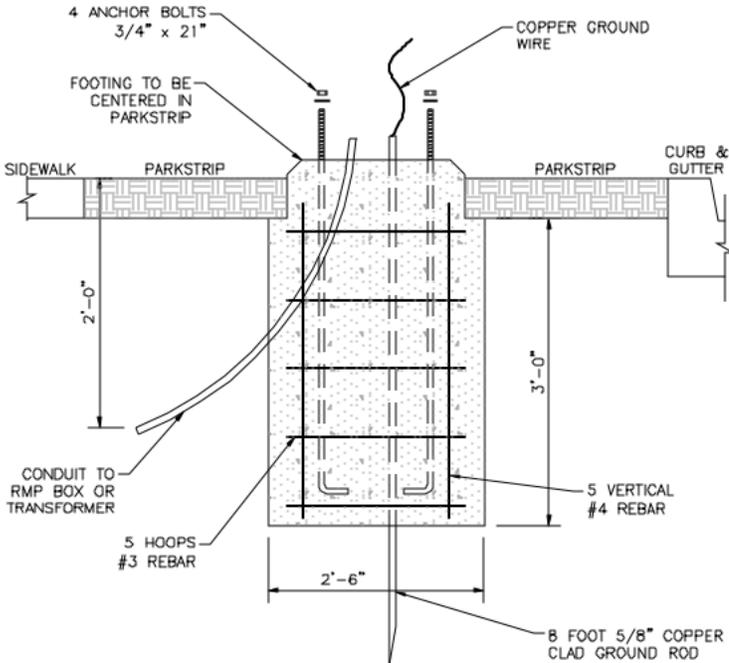
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NOTES:

1. ALL LIGHTS SHALL BE 120V.
2. WIRE NUT, 10-12, BLUE. WET LOCATION TYPE WITH SILICONE INSIDE.
3. GROUND CONNECTOR.
4. CONDUCTOR, 8"x $\frac{3}{8}$ " SOLID, CU, BARE SOFT DRAWN.
5. IN-LINE FUSE HOLDER, URD, INSULATED ENDS.
6. FUSE, 10A 600 V KTK, FNM, OR EQUIVALENT.
7. JUNCTION BOX, UNDERGROUND, STREET LIGHT. SMALL PLASTIC, FOR NO OR LOW TRAFFIC AREA. \* BOX SHOULD BE PLACED AT GRADE LEVEL, AS CLOSE TO BASE AS POSSIBLE.
8. JUNCTION BOX, UNDERGROUND, POLYMER CONCRETE COVER OR CONCRETE BOX WITH STEEL COVER. TO BE USED IN HIGH TRAFFIC AREAS. \* BOX SHOULD BE PLACED AT GRADE LEVEL, AS CLOSE TO BASE OF POLE AS POSSIBLE NOT IN SIDEWALK OR CURB. \*\* CONCRETE BOX WITH STEEL COVER TO BE USED FOR ROADWAY OR VERY HIGH TRAFFIC AREAS.
9. CLAMP, GROUND ROD.  $\frac{5}{8}$ "x8' COPPER WELD/BONDED CU.
10. MOW STRIP, MADE OF CONCRETE, TUBE FORM, TYPICALLY 2"-4" WIDER THAT BASE OF POLE, FILLED WITH READY MIX CONCRETE AND LEVELED TO BASE OF POLE, 8" DEEP WITH #4 REBAR RING IN MIDDLE DEPTH. \* MOW STRIP AROUND LIGHT POLES IS TO PROTECT AGAINST DAMAGE FROM EDGE TRIMMERS, LEVEL TO TOP BACK OF CURB.
11. HELIX FOUNDATION LIGHT POLES SHALL NOT BE PERMITTED IN HIGHLAND CITY FOR THE POLES.
12. ALL CONTRACTORS INSTALLING LIGHT POLES IN HIGHLAND SHALL BE RESPONSIBLE FOR COORDINATION WITH ROCKY MOUNTAIN POWER AND HIGHLAND CITY WITH AS-BUILT PLANS SO THEY WILL BE INCORPORATED WITH BLUE STAKES FOR IDENTIFICATION. PROOF OF COMPLETION WILL BE REQUIRED BEFORE POLES ARE SIGNED OFF.
13. UNDERGROUND WIRING FOR STREET LIGHTING SHALL BE INSTALLED AS PER NEC. BURIED AT A MINIMUM DEPTH OF 18" WHEN INSTALLED WITH DIRECT BURIAL CABLE FROM POWER SOURCE, DIRECT BURY CABLE SHALL BE INSTALLED PERPENDICULAR TO CURB AND THEN RUNNING PARALLEL WITH CURB TO STREETLIGHT, WITH PLACEMENT OF WIRE A MAXIMUM DISTANCE OF 8" FROM TBC.
14. TYPE OF UNDERGROUND CABLE FOR STREET LIGHTING SHALL ALSO BE NEC APPROVED COPPER #6 OR #8 LISTED FOR DIRECT BURIAL USE.
15. THE WIRING FOR POLES SHALL BE INSTALLED WITH A BREAKAWAY FUSE AT THE BASE OF THE POLE TO PROTECT FROM POSSIBLE ELECTROCUTION IF POLE WERE TO FALL FOR ANY REASON. ON RUNS GREATER THAT 15' IN LENGTH, A JUNCTION BOX SHALL BE INSTALLED WITH A BREAKAWAY FUSE AS CLOSE AS POSSIBLE TO BASE OF POLE.
16. ALL WIRING RUNNING FROM POWER SOURCE TO LIGHT NEEDS TO BE PLACED WITHIN A RECORDED EASEMENT SO THE CITY CAN MAINTAIN THEM.

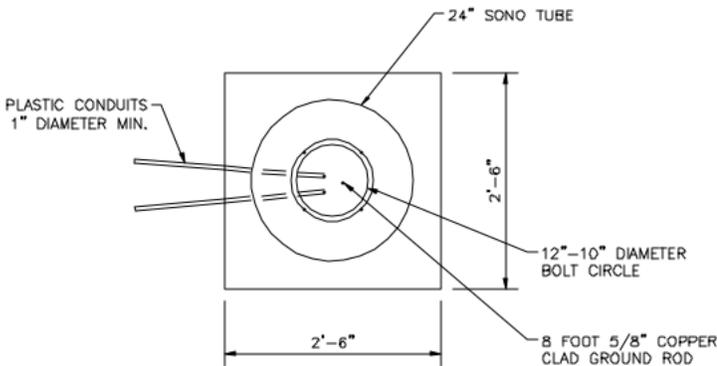


NOTE:  
IN-LINE WATERTIGHT FUSE HOLDERS  
REQUIRED AT CONNECTION POINT IN BASE  
OF LIGHT LITTLEFUSE #WPB1 OR EQUAL.

**LIGHT POLE DETAIL**  
SCALE: NTS

NOTES:

1. THREE WIRE COPPER CONDUCTOR (8-3/C TYPE TC 600V VNTC SUN RES DIR BUR METHOD 4 CABLE OR EQUIVALENT) SHALL BE USED ON SINGLE POLE INSTALLATIONS (1-BLACK 2-WHITE 3-GREEN)--COPPER CABLE ONLY--.
2. WIRE CONNECTORS IN HAND HOLE SHALL BE MADE BURNDY YC8L12 ELECTRICAL CONNECTORS, HSTO 4-48-5 HEAT SHRINK OR EQUIVALENT SHALL BE USED TO COMPLETE WIRE CONNECTIONS.
3. BURNDY KA25U 14-1/0 AWG AL/CU MECHANICAL LUGS OR EQUIVALENT SHALL BE USED TO CONNECT THE GROUND WIRE TO THE GROUND CLIP INSIDE THE HAND HOLE.
4. A GOULD SHAWMUT IN LINE FUSE HOLDER WITH/ BOOT #GEB-11-11-B AND AMP OTMIS GOULD FUSE OR EQUIVALENT SHALL BE INSTALLED INSIDE THE JUNCTION BOX OR TRANSFORMER CONNECTION TO THE HOT LEG OF THE POWER CABLE, SHALL BE CORRELATED BETWEEN CONTRACTORS AND ROCKY MOUNTAIN POWER.
5. STREET LIGHT POLE SHALL NOT BE INSTALLED IN A MANNER THAT WILL HINDER THE OPERATION OF FIRE HYDRANTS OR UNDERGROUND WATER SYSTEM ISOLATION VALVES.
6. INSTALLATIONS WITHIN CLOSE PROXIMITY TO TREES SHALL BE AVOIDED UNLESS APPROVED BY THE PROJECT MANAGER.
7. ALL WIRE WHICH IS INSTALLED UNDER SIDEWALK, DRIVEWAYS, OR OTHER PERMANENT STRUCTURES ARE REQUIRED TO BE PLACED IN CONDUIT.
8. POLE IS TO BE SET PLUMB. THE POLE SHALL BE INSTALLED WITHIN 1/4 DEGREE OF VERTICAL.



NOTE:  
GROUND ROD AND PLASTIC CONDUITS  
MUST BE LOCATED WITHIN A 3" RADIUS  
FROM THE CENTER OF BOLT CIRCLE.

**PLAN VIEW**  
SCALE: NTS

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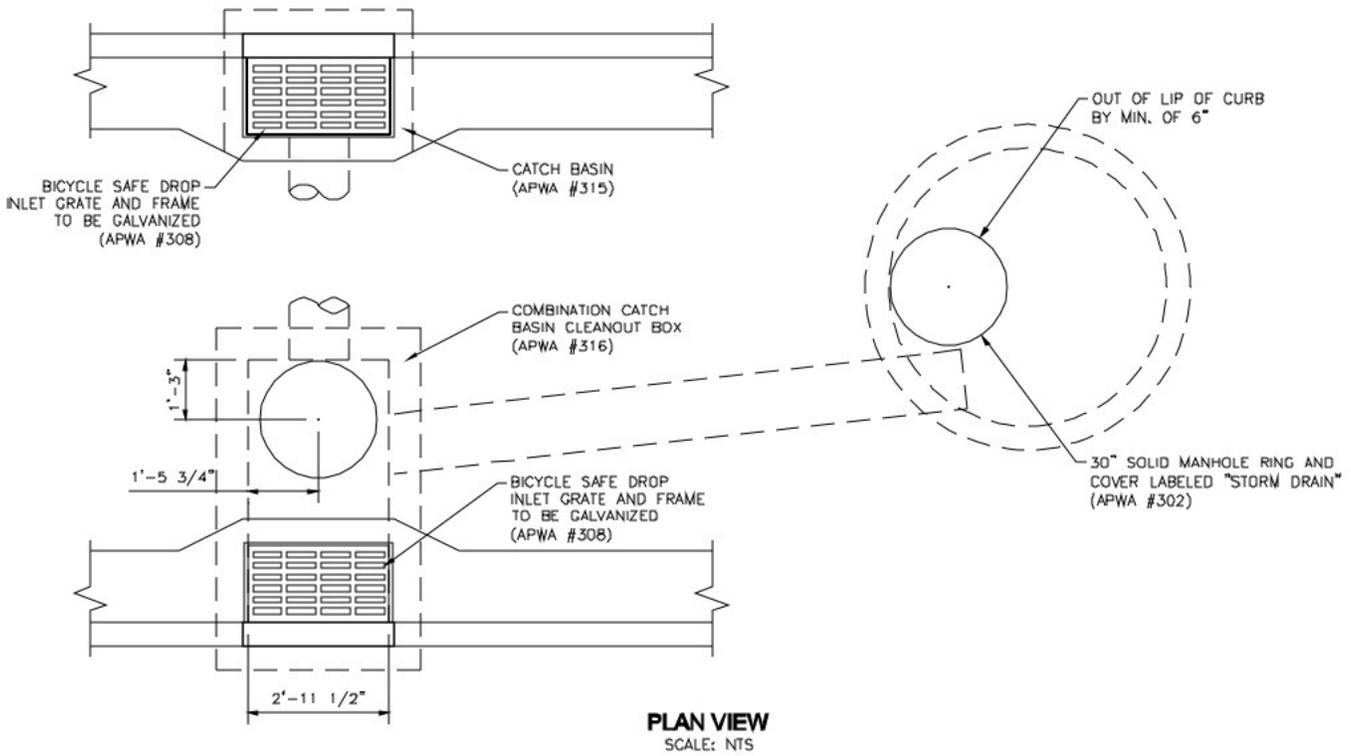
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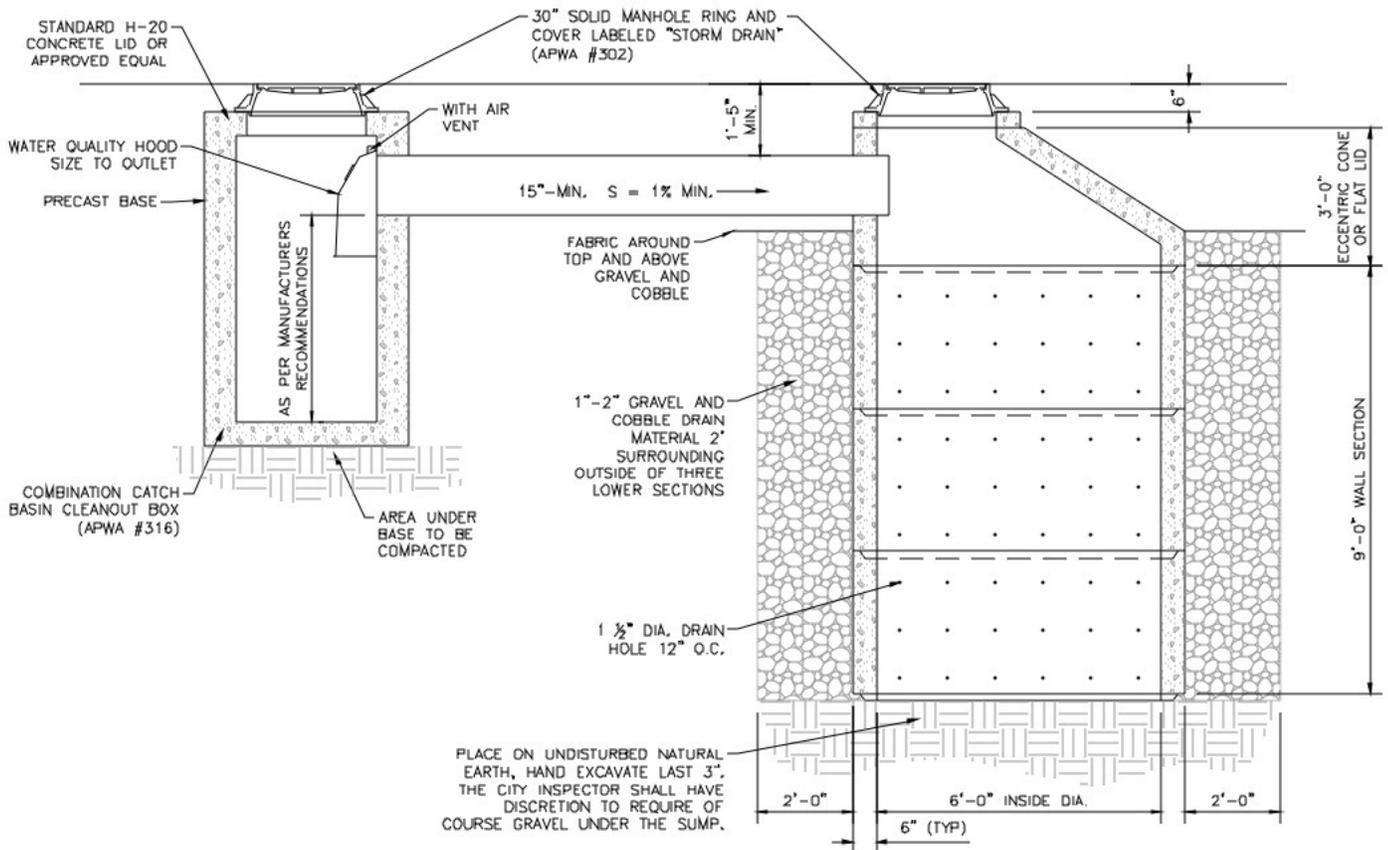
U-04

STREET LIGHT BASE DETAIL

NO.	REVISION DESCRIPTION	BY	APR.	DATE	LAST UPDATED: 2/9/2015



**PLAN VIEW**  
SCALE: NTS



**SUMP CROSS SECTION**  
SCALE: NTS

Pkg Date: 2/9/2015 2:02 PM Plotted By: Chris Wilson  
 Drawn: Chris Wilson  
 Date: 1/21/2015 1:21:02 PM  
 File: HIGHLAND STD DRAWING

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FILE: HIGHLAND STD DRAWING  
 DRAWN BY: JMM  
 DESIGN BY: CRW  
 CHECKED BY: TMT  
 LAST UPDATED: 2/9/2015

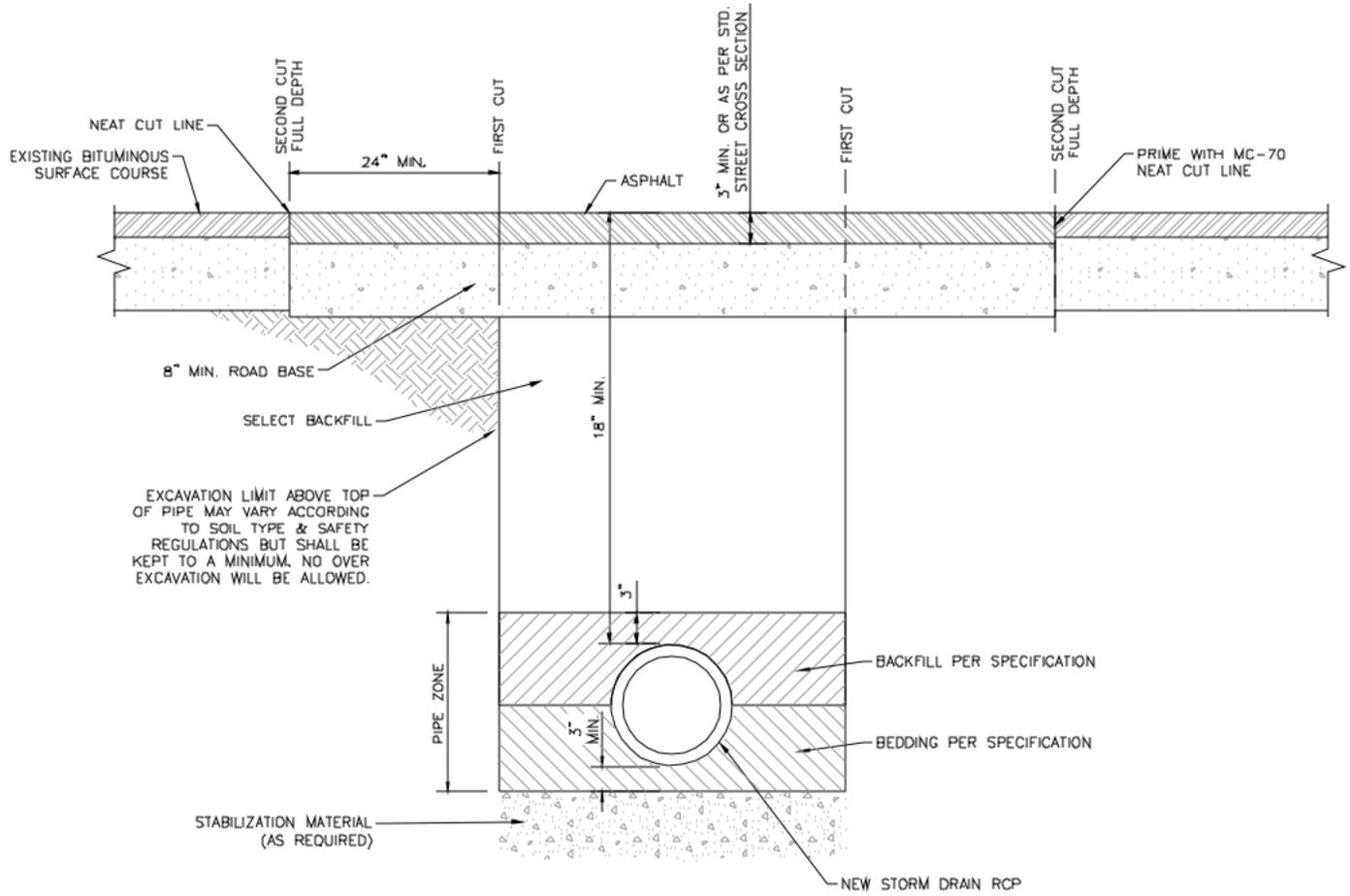


**HIGHLAND CITY  
 PUBLIC WORKS AND ENGINEERING**

STORM DRAIN AND SUMP DETAIL

STD DWG #  
**SD-01**

NO.	REVISION DESCRIPTION	BY	APR.	DATE



EXCAVATION LIMIT ABOVE TOP OF PIPE MAY VARY ACCORDING TO SOIL TYPE & SAFETY REGULATIONS BUT SHALL BE KEPT TO A MINIMUM. NO OVER EXCAVATION WILL BE ALLOWED.

- NOTE:
1. NO SAW CUT JOINT SHALL BE IN THE TIRE PATH, IF PATCH JOINT ENDS WITHIN 2" OF CURB, PATCH MUST GO TO CURB.
  2. USE APWA AS GUIDE (PLAN # 255).
  3. PG 58-28 PERFORMANCE GRADED ASPHALT.

P:\2015\2015.02.02 PM Plotted By: Chris Wilson  
 Date Created: 1/21/2015 1:09 PM FILES\PUBLIC\PROJECTS\SUB\HIGH\AND 50-14-031 - HIGHLAND - FY 2013-2014 GENERAL SERVICES\HIGH\AND CITY STD\DWG\KORH\AND STD\DRAWING.DWG

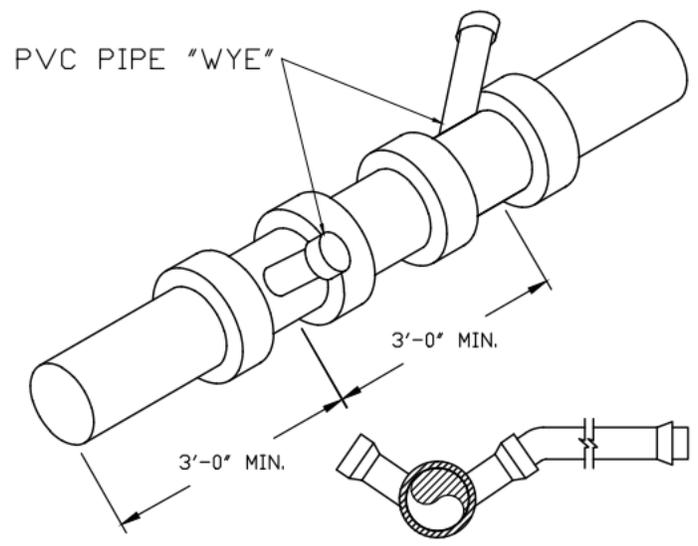
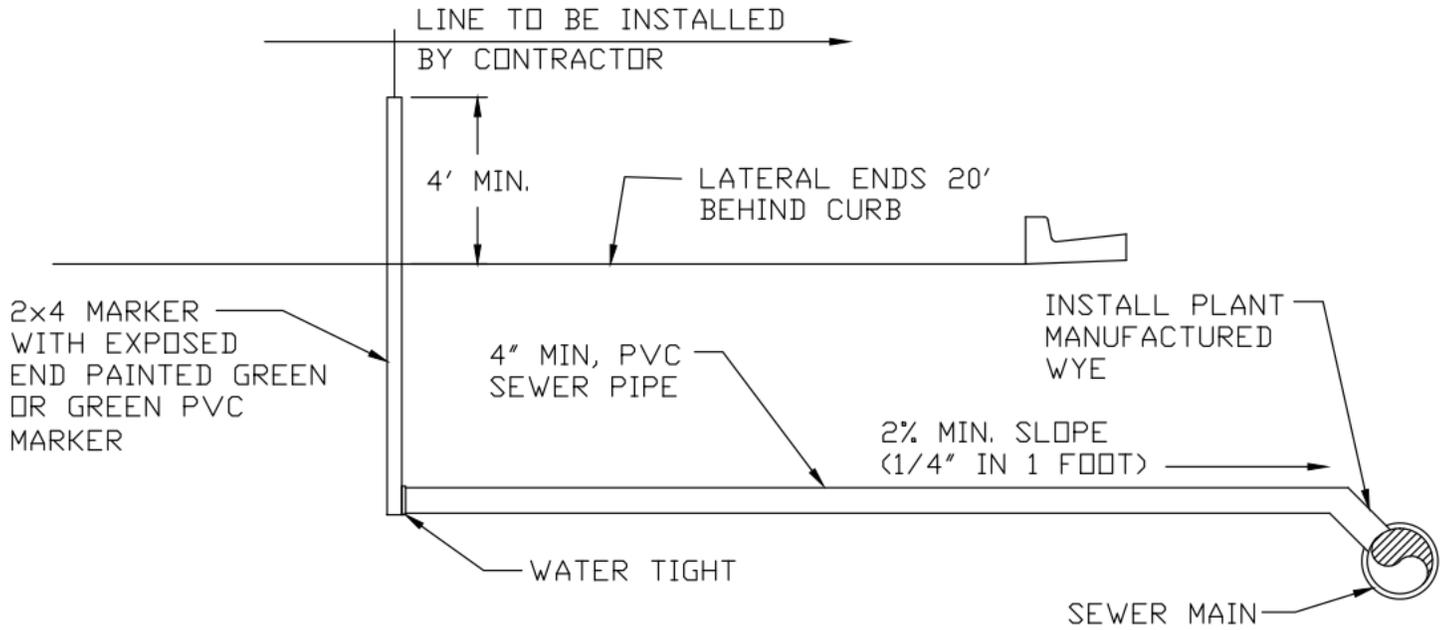
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NO.	REVISION DESCRIPTION	BY	DATE

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LAST UPDATED: 2/9/2015



**HIGHLAND CITY**  
**PUBLIC WORKS AND ENGINEERING**  
 STORM DRAIN TRENCH CROSS SECTION

STD DWG #  
**SD-02**

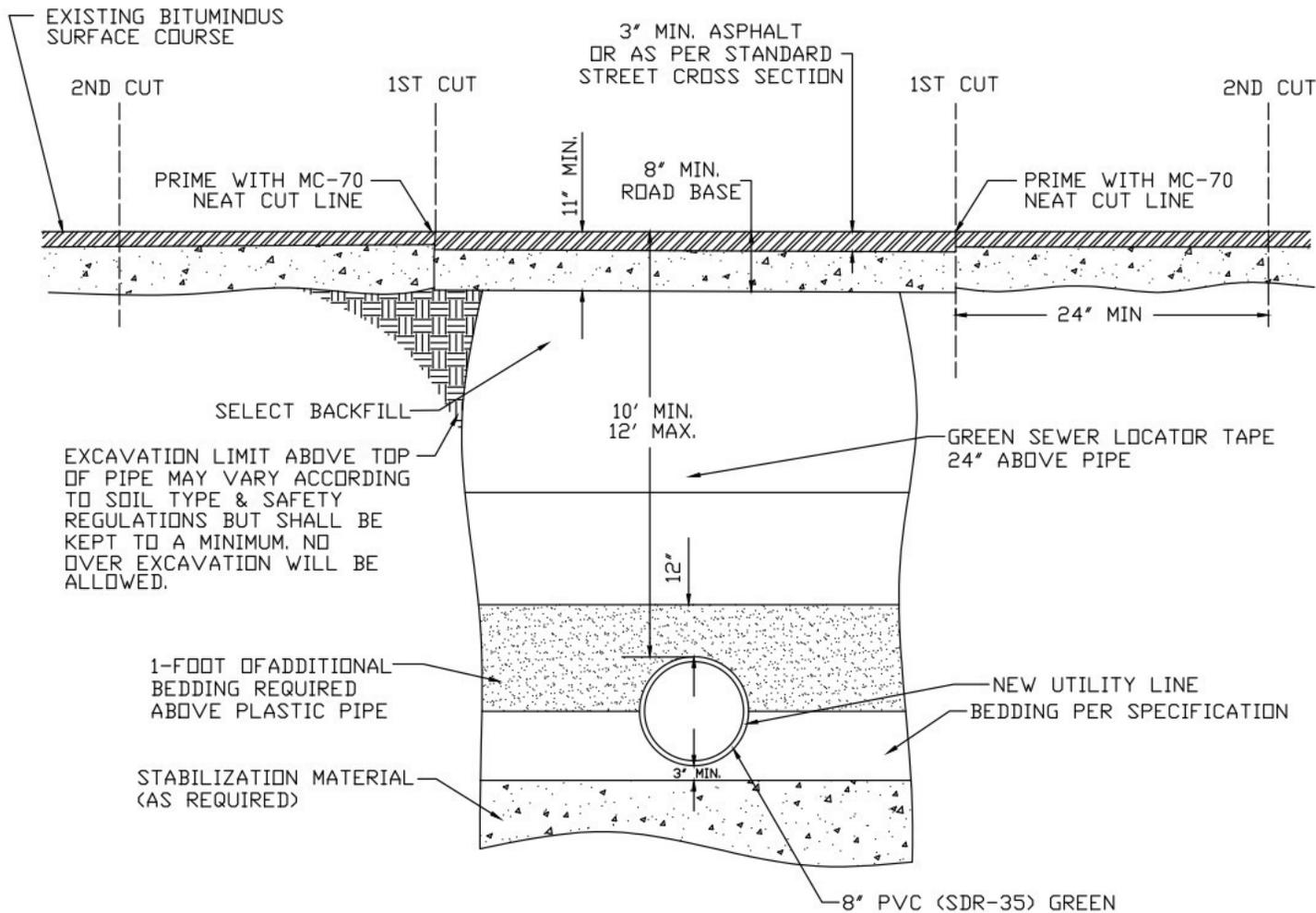


**NOTES:**

1. SANITARY SEWER SERVICE TAPS SHALL BE LOCATED ON THE MAIN AT THE 2 O'CLOCK OR 10 O'CLOCK POSITION.
2. THE MINIMUM DISTANCE BETWEEN ANY TWO CONSECUTIVE FITTINGS SHALL BE 3 FEET, MEASURED BETWEEN FITTING CENTERLINES.
3. SANITARY SEWER SERVICE TAPS SHALL NOT BE MADE WITHIN 3 FEET OF A PIPE JOINT, OR 5 FEET FROM EDGE OF MANHOLE BASE.
4. A MAXIMUM OF FOUR SERVICE TAPS ARE ALLOWED PER 20 FOOT LENGTH OF PIPE.
5. ALL SANITARY SEWER TAPS SHALL USE "WYE" STYLE FITTINGS. TEES ARE NOT ALLOWED.
6. LATERAL SHALL NOT ENTER MANHOLES, UNLESS APPROVED BY CITY ENGINEER AND CITY PUBLIC WORKS DEP.
7. AN APPROVED PVC "WYE" SHALL BE USED ON NEW MAIN LINE INSTALLATIONS 18" OR SMALLER.
8. TAPS INSTALLED IN STAGGERED CONFIGURATION AT 10 O'CLOCK OR 2 O'CLOCK POSITION.

Plot Date: 1/29/2015 3:36 PM, Plotted By: Jason Bradford  
 Date Created: 7/28/2014 11:00:00 AM, PROJECTS\314 - HIGHLAND CITY\05.100 - MISC CONSULTING STANDARD DETAILS\HIGHLAND CITY\SS-01 SEWER LATERAL DETAIL.DWG

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NO	REVISION DESCRIPTION	BY	APR	DATE	



NOTE: USE APWA AS GUIDE  
PG 58-28 PERFORMANCE GRADE ASPHALT

Plot Date: 1/29/2015 3:37 PM, Plotted By: Jason Bradford  
 Date Created: 7/28/2014 11:00 AM, PROJECT: SS-02 SEWER INSTALLATION AND ROAD REPAIR DETAIL DWG

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FILE: HIGHLAND CITY SS-02 SEWER INSTALLATION AND ROAD REPAIR DETAIL

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 CHECKED BY: ###



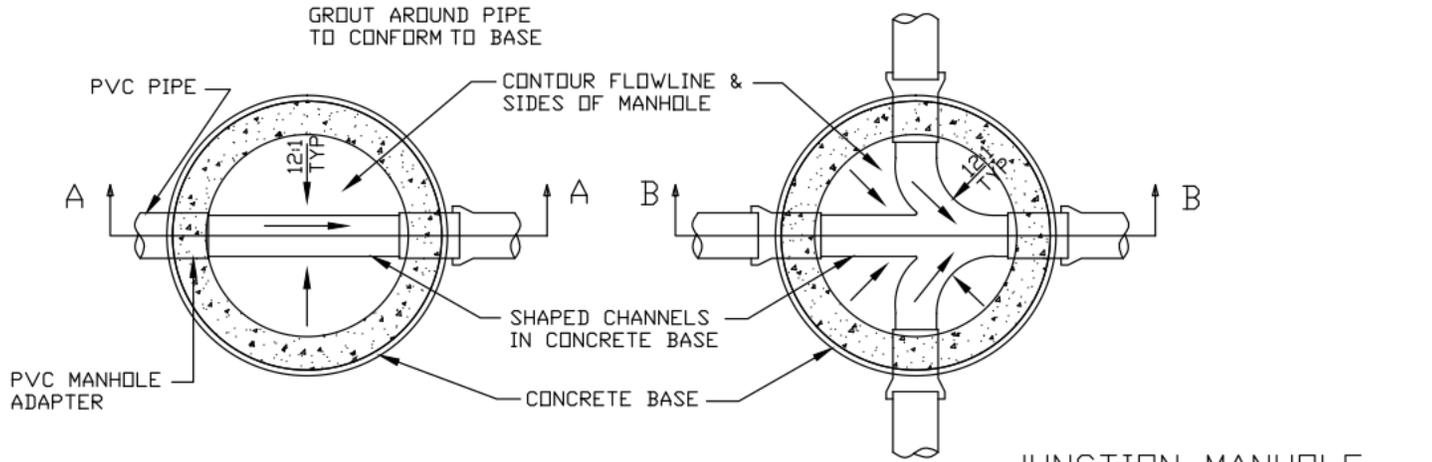
**HIGHLAND CITY**  
 PUBLIC WORKS AND ENGINEERING

SEWER INSTALLATION AND ROAD REPAIR

STD DWG #

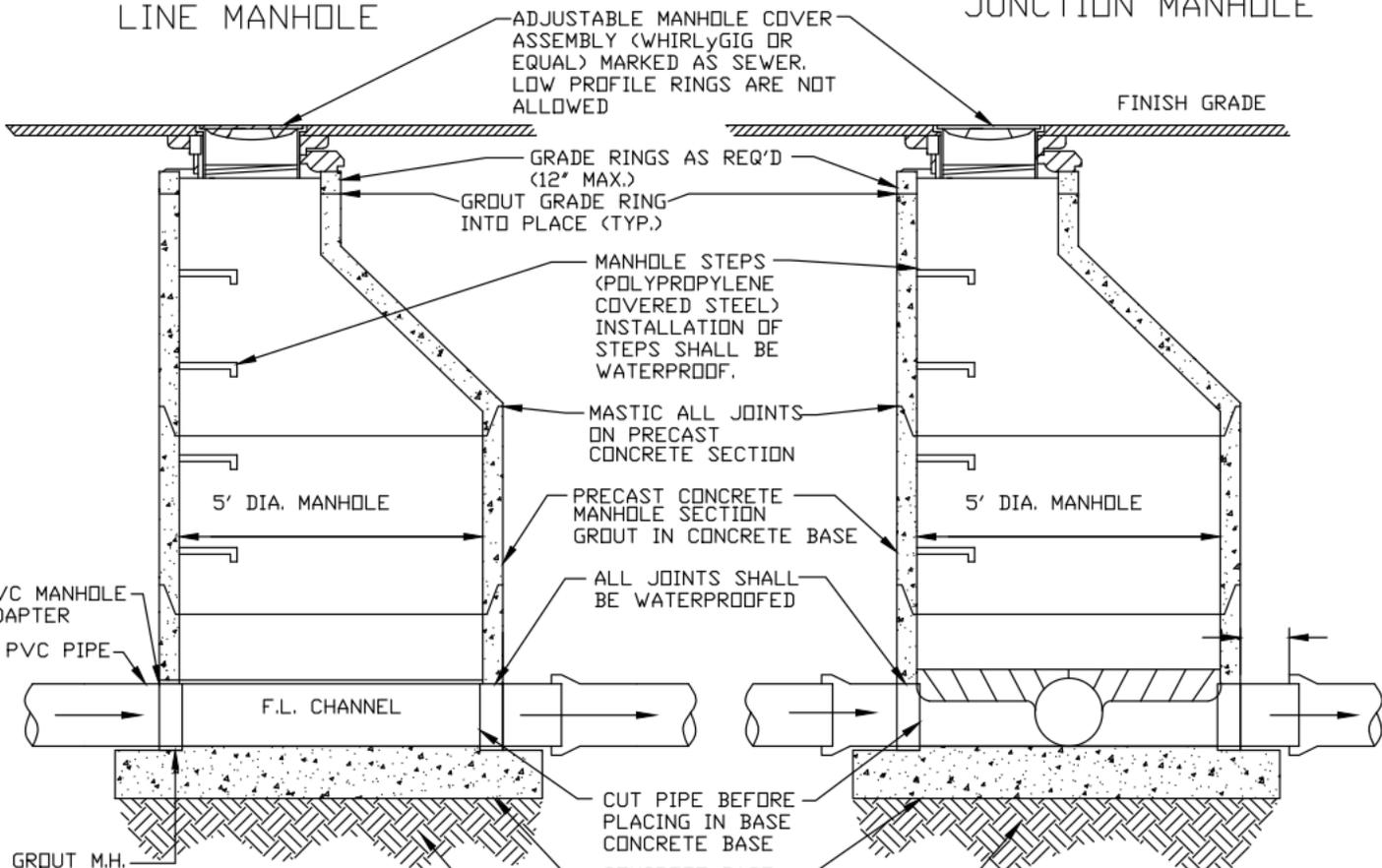
SS-02

NO	REVISION DESCRIPTION	BY	APR	DATE	LAST UPDATED: 1/29/2015



LINE MANHOLE

JUNCTION MANHOLE



SECTION A-A

SECTION B-B

NOTE:  
RUBBER BOOT JOINTS WITH  
STAINLESS STEEL CONNECTION  
BANDS REQUIRED

Plot Date: 1/29/2015 3:39 PM, Plotted By: Jason Bradford  
 User: C:\users\jbradford\appdata\local\temp\AutoCAD 2014\PROJECTS\311 - HIGHLAND CITY\08\_100 - MISC CONSULTING\STANDARD DETAILS\HIGHLAND CITY SS-03 SEWER MANHOLE DETAIL.DWG

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FILE: HIGHLAND CITY SS-03 SEWER MANHOLE DETAIL
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DESIGN BY: ###
CHECKED BY: ###
LAST UPDATED: 1/29/2015



HIGHLAND CITY  
PUBLIC WORKS AND ENGINEERING

SEWER MANHOLE

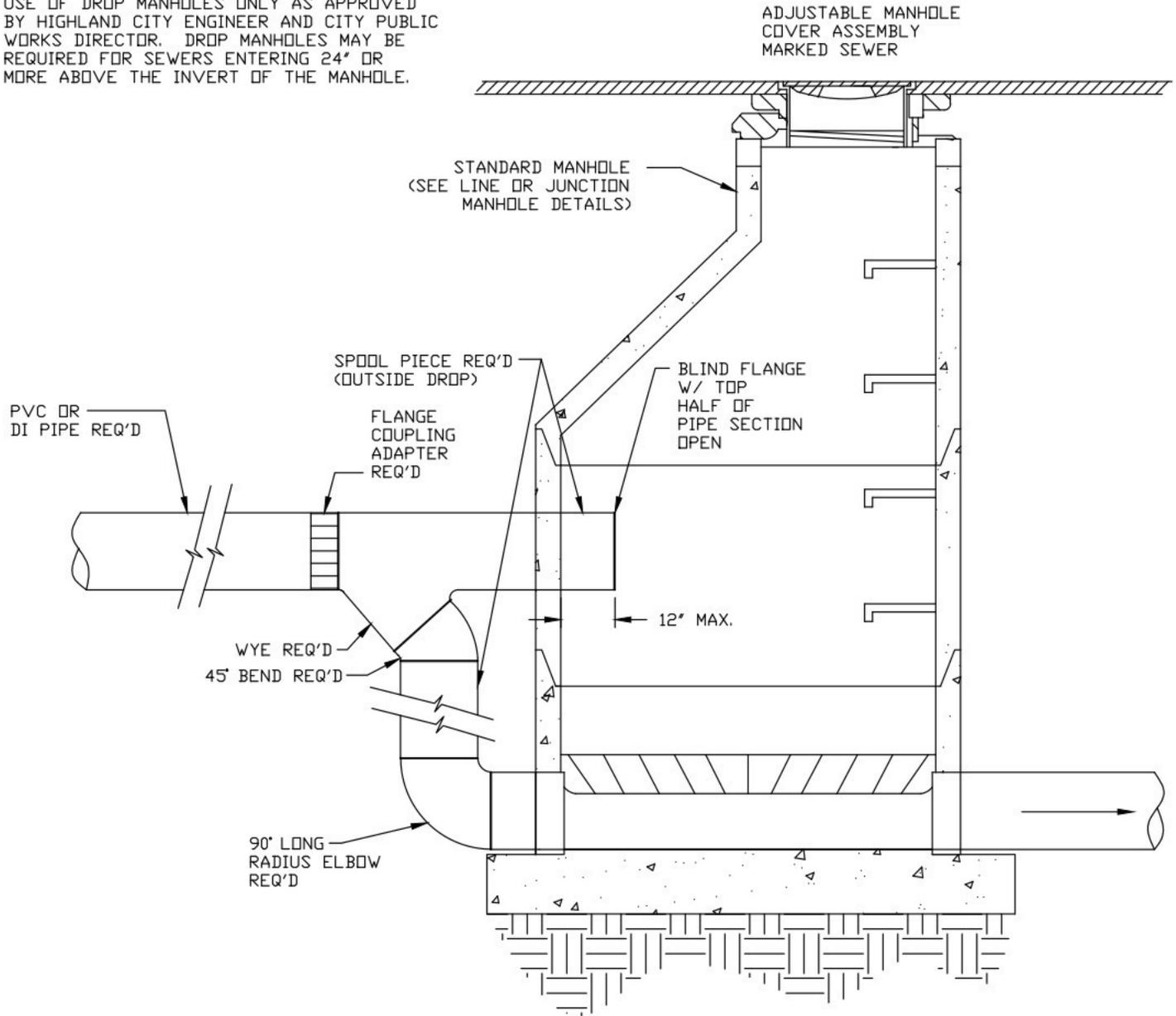
STD DWG #

SS-03

NO.	REVISION DESCRIPTION	BY	APR	DATE

GENERAL NOTES:

USE OF DROP MANHOLES ONLY AS APPROVED BY HIGHLAND CITY ENGINEER AND CITY PUBLIC WORKS DIRECTOR. DROP MANHOLES MAY BE REQUIRED FOR SEWERS ENTERING 24" OR MORE ABOVE THE INVERT OF THE MANHOLE.



Plot Date: 1/29/2015 9:40 PM, Plotted By: Jason Bradford  
 Date Created: 7/26/2011, PROJECTS\314 - HIGHLAND CITY\05 - 00 - MSC CONSULTING\STANDARD DETAILS\HIGHLAND CITY\SS-04 DROP MANHOLE DETAIL.DWG

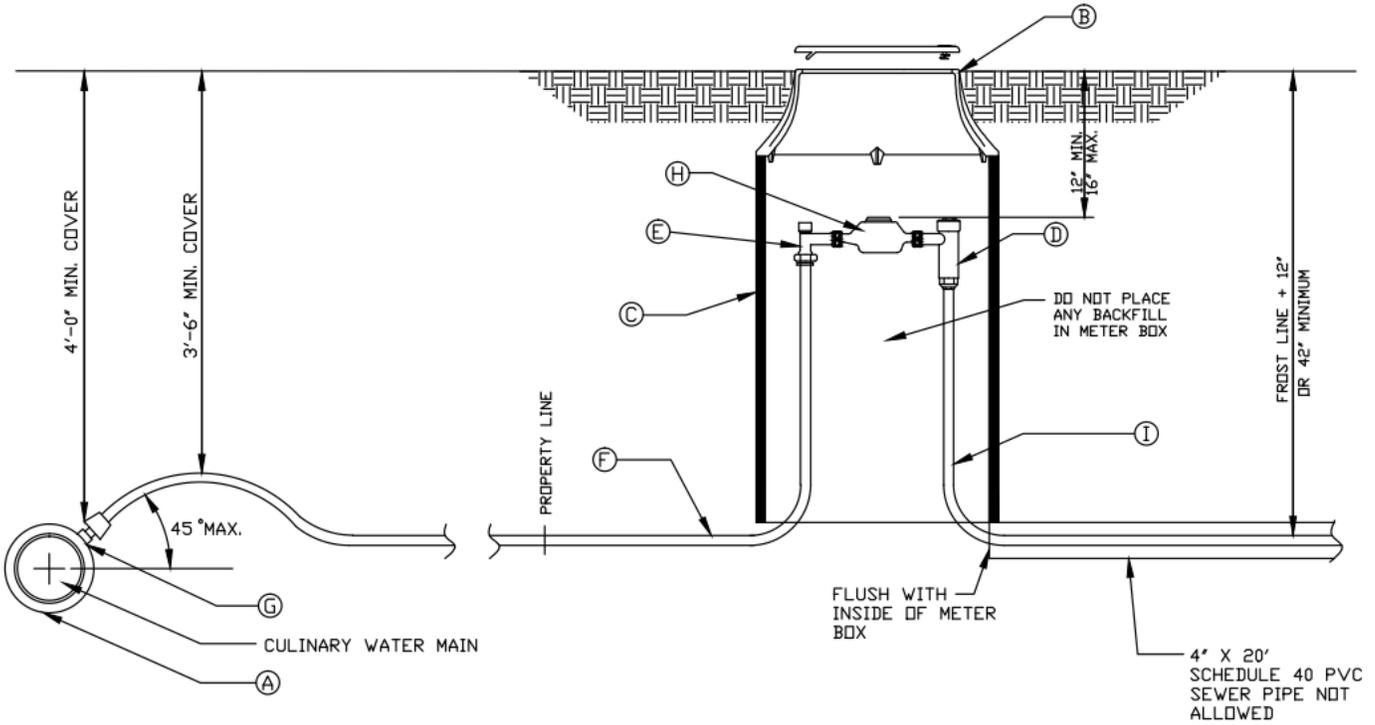
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NO	REVISION DESCRIPTION	BY	DATE

FILE: HIGHLAND CITY SS-04 DROP MANHOLE DETAIL
DRAWN BY: ###
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LAST UPDATED: 1/29/2015



**HIGHLAND CITY**  
 PUBLIC WORKS AND ENGINEERING  
 SEWER DROP MANHOLE DETAIL

STD DWG #  
**SS-04**



### LEGEND

No.	*	ITEM	NOTE
(A)		MUELLER OR ROMAC WITH IP TAP	STAINLESS STEEL BAND WITH TEFLON COATING
(B)		RING AND COVER	CAST IRON COVER (grass) WITH KNOCKOUT DUCTILE COVER (driveway) WITH RADIO READ HOLE
(C)		METER BOX (18" DIAMETER) (36" DEEP)	METER BARRELS A.D.S. WHITE IN COLOR
(D)	*	RESIDENTIAL DUAL CHECK	INSTALLED BY WATER DEPT. AT METER SET
(E)		3/4" PACK JOINT (PJ) ANGLE METER VALVE	FORD 300 BALL ANGLE METER VALVE
(F)		COPPER PIPE 3/4"	TYPE K (SOFT) 3/4" (UPGRADE TO 1" IF OVER 50')
(G)		CORPORATION STOP PACK JOINT X IRON PIPE SIZE	MUELLER 300 BALL TYPE CORPORATION STOP OR FORD FB1100
(H)	*	WATER METER	INSTALLED BY WATER DEPT. AT METER SET
(I)		COPPER OR POLY PIPE	CTS (COPPER TUBE SIZE) OR IPS (IRON PIPE SIZE)

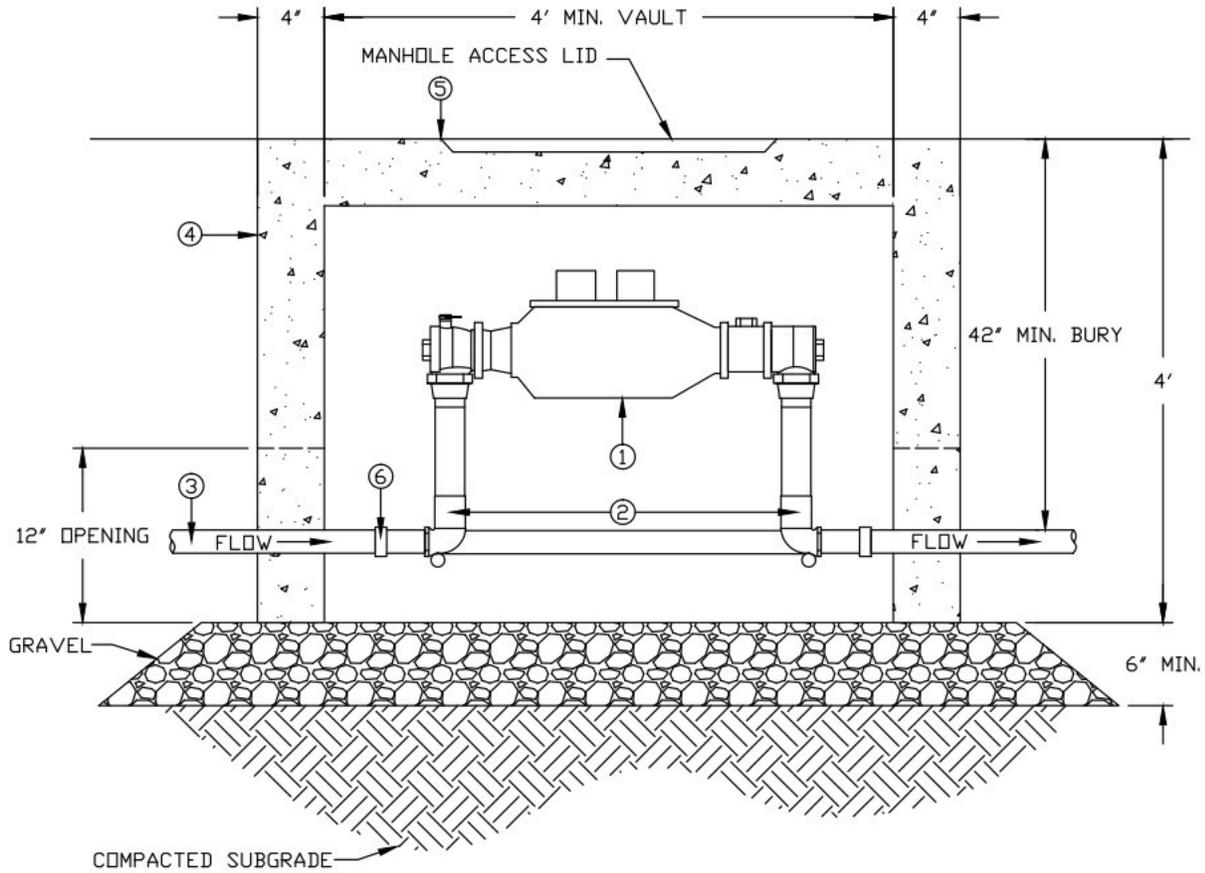
\* FURNISHED BY UTILITY AGENCY

NOTE:  
COMMERCIAL WATER SERVICES REQUIRE  
21" METER BOX AND LID, AND 1" COPPER  
AND FITTINGS.

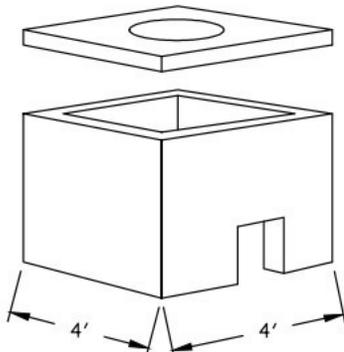
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NO REVISION DESCRIPTION BY APR DATE		WATER METER DETAIL		WATER METER DETAIL	

# 1.5"-2" METER SETTER



#	PART	MANUFACTURER MODEL/ CAT. NO.
1.	1.5"-2" COMPOUND METER	FURNISHED BY HIGHLAND CITY
2.	1.5"-2" METER SETTER	FORD VBH 47-18 DR VBH 46-18 WITH PADLOCK RING 18" RISE MUELLER H-1422-2
3.	1.5"-2" TYPE "K" SOFT COPPER ROLLED TUBING DR BLUE POLY (CTS)-NSF APPROVED	
4.	4'x4' PRECAST CONCRETE METER VAULT	(OR APPROVED EQUIVALENT)
5.	MAN HOLE LID	
6.	1.5"-2" COMPRESSION	
7.	SERVICE SADDLE- DOUBLE STAINLESS STEEL STRAPS NYLON-COATED RDMAC TYPE 202-N	



Plot Date: 1/29/2015 2:24 PM, Plotted By: Jason Bradford  
 Date Created: 7/25/2014 11:00:00 AM, PROJECTS\311 - HIGHLAND CITY\05 - 00 - MSC CONSULTING\STANDARD DETAILS\HIGHLAND CITY DWG\02 COMMERCIAL METER VAULT DETAIL.DWG

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FILE: HIGHLAND CITY DWG 02 COMMERCIAL METER VAULT DETAIL
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DESIGN BY: ###
CHECKED BY: ###
LAST UPDATED: 1/29/2015

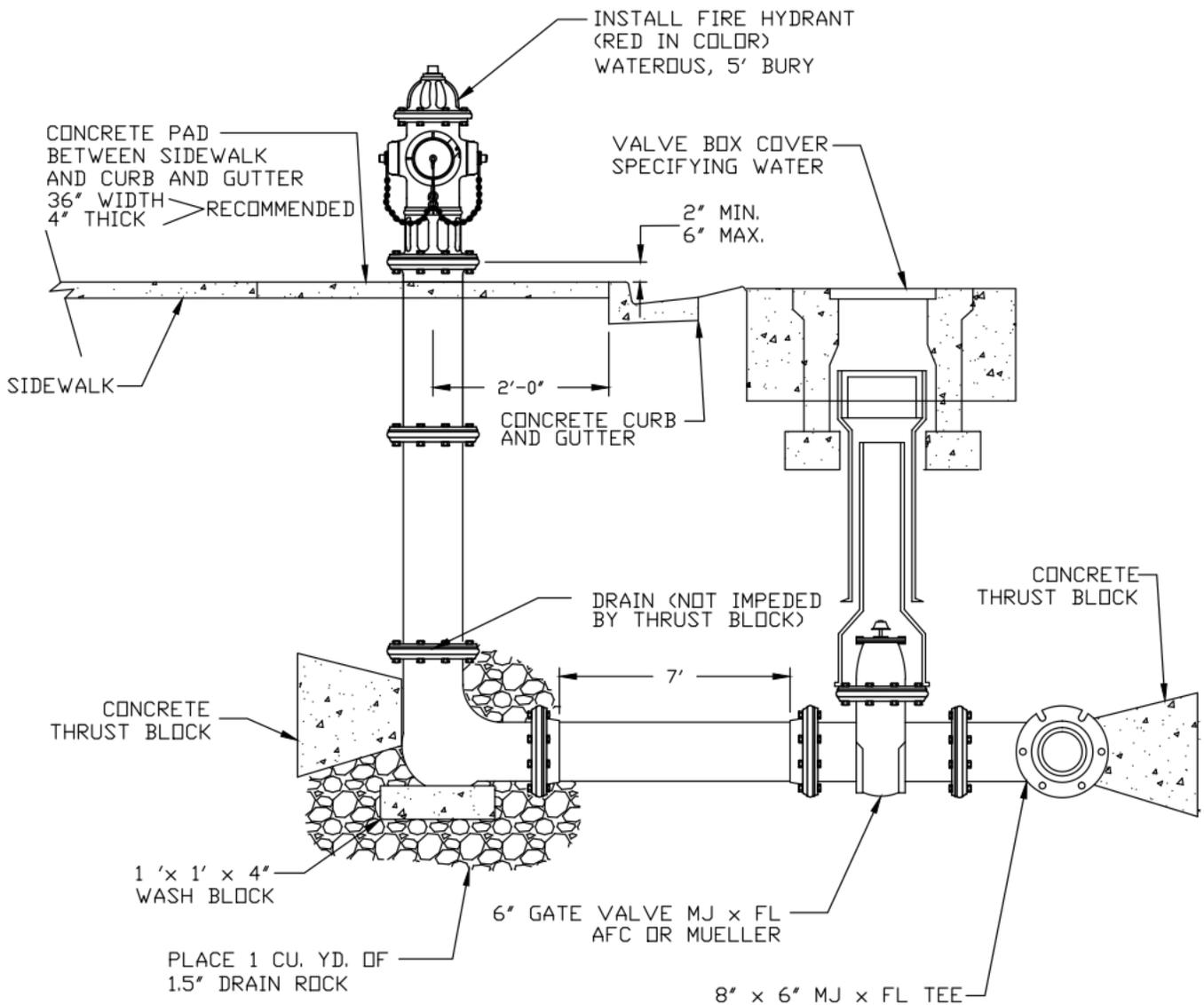


**HIGHLAND CITY**  
 PUBLIC WORKS AND ENGINEERING  
 COMMERCIAL WATER METER VAULT

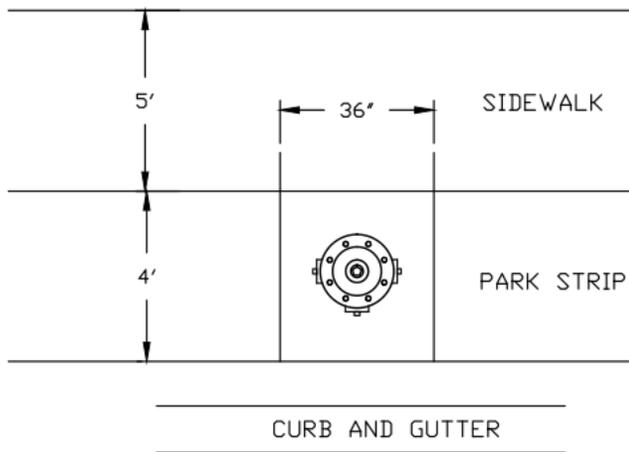
STD DWG #

**DW-02**

NO	REVISION DESCRIPTION	BY	APR	DATE



NOTE:  
 ENCASE WITH POLYWRAP  
 FM GREASE ON ALL NUTS AND BOLTS



Plot Date: 1/29/2015 2:27 PM, Plotted By: Jason Bradford  
 Date Created: 2/26/2014, PROJECTS\314 - HIGHLAND CITY\05-100 - MSC CONSULTING STANDARD DETAILS\HIGHLAND CITY DW-03 FIRE HYDRANT DETAIL.DWG

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FILE: HIGHLAND CITY DW-03 FIRE HYDRANT DETAIL

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 LAST UPDATED: 1/29/2015



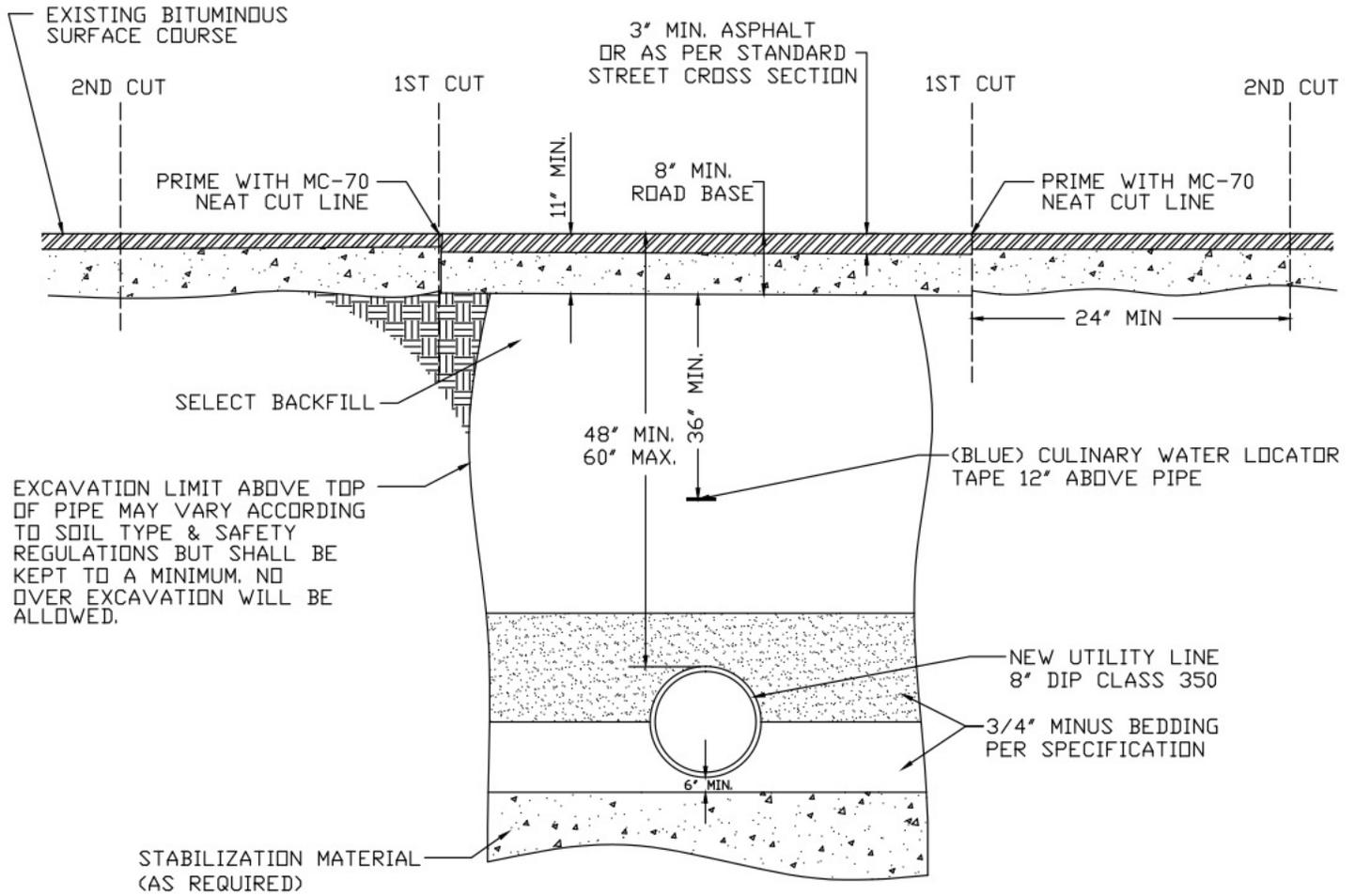
**HIGHLAND CITY**  
 PUBLIC WORKS AND ENGINEERING

FIRE HYDRANT DETAIL

STD DWG #

**DW-03**

NO	REVISION DESCRIPTION	BY	APR	DATE



NOTES: USE APWA AS GUIDE  
 POLYWRAP (AWWA) C 105  
 FM GREASE ON BOLTS  
 PG 58-28 PERFORMANCE GRADE ASPHALT

Plot Date: 7/29/2015 1:01 PM, Plotted By: Terek, Timothy  
 Date Created: 7/29/2014 11:00 AM, PROJECT: S314 - HIGHLAND CITY 05.100 - MISC CONSULTING STANDARD DETAILS/HIGHLAND CITY DW-04 WATER TRENCH.DWG

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 PUBLIC WORKS AND ENGINEERING

WATER TRENCH DETAIL

STD DWG #

**DW-04**

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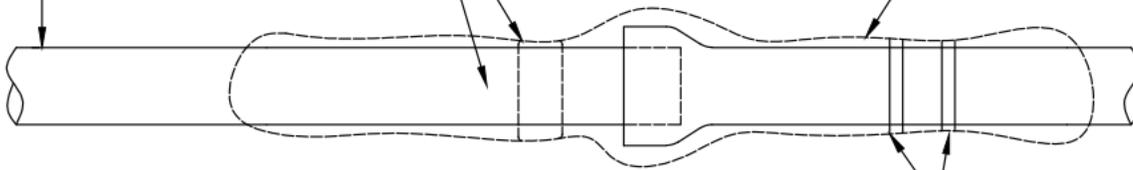


4' MIN. TO TOP OF PIPE

DUCTILE IRON PIPE CLASS 350

OVERLAP BAG

8-MIL THICK POLYETHYLENE TUBE AWWA & ANSI STANDARDS MARKER TAPE



PULL LOOSE OR SLACK TO TOP THEN TAPE ACCROSS TOP OF BAG WITH DUCT OF ELECTRICAL TAPE

Plot Date: 1/29/2015 2:35 PM, Printed By: Jason Bradford  
 Date Created: 7/25/2014 11:00:00 AM, PROJECTS\311 - HIGHLAND CITY\05 - MISC CONSULTING\STANDARD DETAILS\HIGHLAND CITY DW-05 POLYETHYLENE WRAP DETAIL.DWG

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FILE: HIGHLAND CITY DW-05 POLYETHYLENE WRAP DETAIL

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 CHECKED BY: ###



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 PUBLIC WORKS AND ENGINEERING

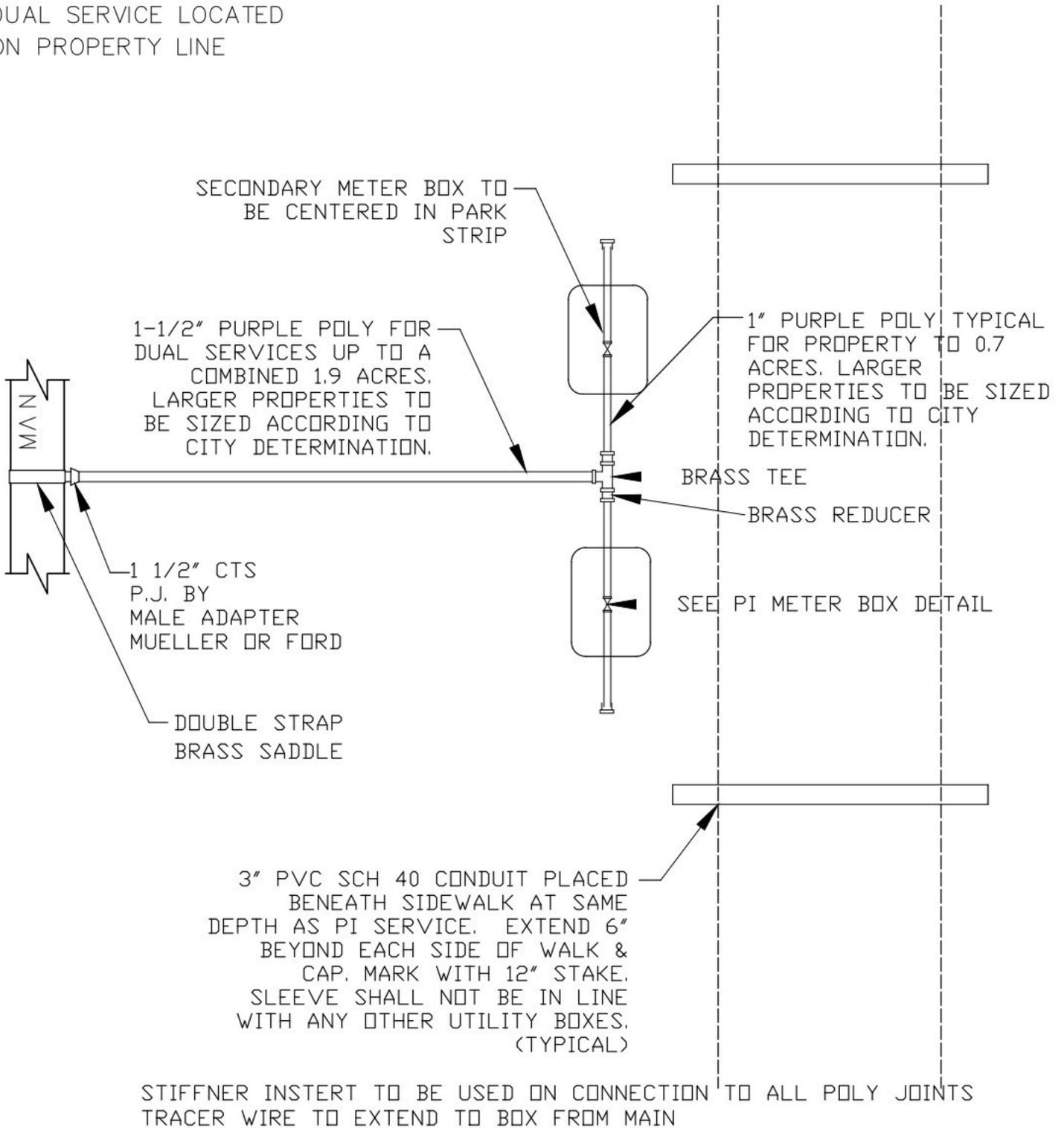
STD DWG #

POLYETHYLENE WRAP DETAIL

**DW-05**

NO	REVISION DESCRIPTION	BY	APR	DATE	LAST UPDATED: 1/29/2015

NOTE:  
 DUAL SERVICE LOCATED  
 ON PROPERTY LINE



Plot Date: 1/29/2015 2:56 PM, Printed By: Jason Bradford  
 Data Checked: 7/28/2014 11:00 AM, PROJECTS\514 - HIGHLAND CITY\05 - 00 - MSC CONSULTING\STANDARD DETAILS\HIGHLAND CITY PI-01 SERVICE DETAIL.DWG

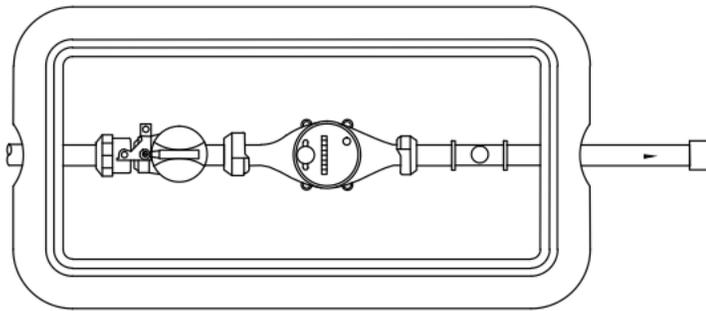
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LAST UPDATED: 1/29/2015

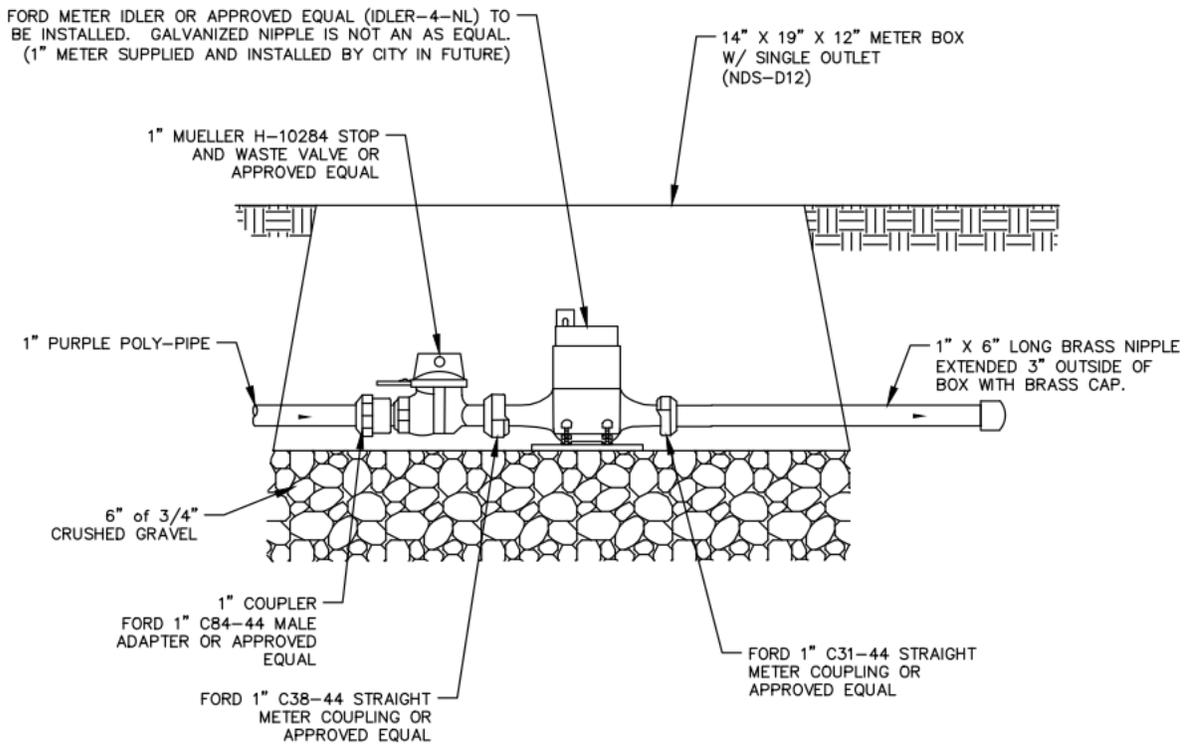


<b>HIGHLAND CITY</b> PUBLIC WORKS AND ENGINEERING
P.I. SERVICES DETAIL

STD DWG #
PI-01



PLAN



SECTION

NOTES:

1. 1" METER PROVIDED BY CITY IN FUTURE
2. ALL PIPES SHALL BE BURIED WITH 14 GAUGE STRANDED THHN TRACE WIRE
3. PROPERTY OWNERS SHALL NOT REMOVE/MODIFY ANY PORTION OF THE METER BOX.

Plot Date: 1/29/2015 2:57 PM, Plotted By: Jason Bradford  
 Date Created: 7/10/2014 11:00:00 AM, PROJECTS\311 - HIGHLAND CITY\08.100 - MISC CONSULTING\STANDARD DETAILS\HIGHLAND CITY\PI-02 - 1-INCH METER BOX.DWG

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FILE: HIGHLAND CITY PI-02 - 1-INCH METER BOX

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 CHECKED BY: ###



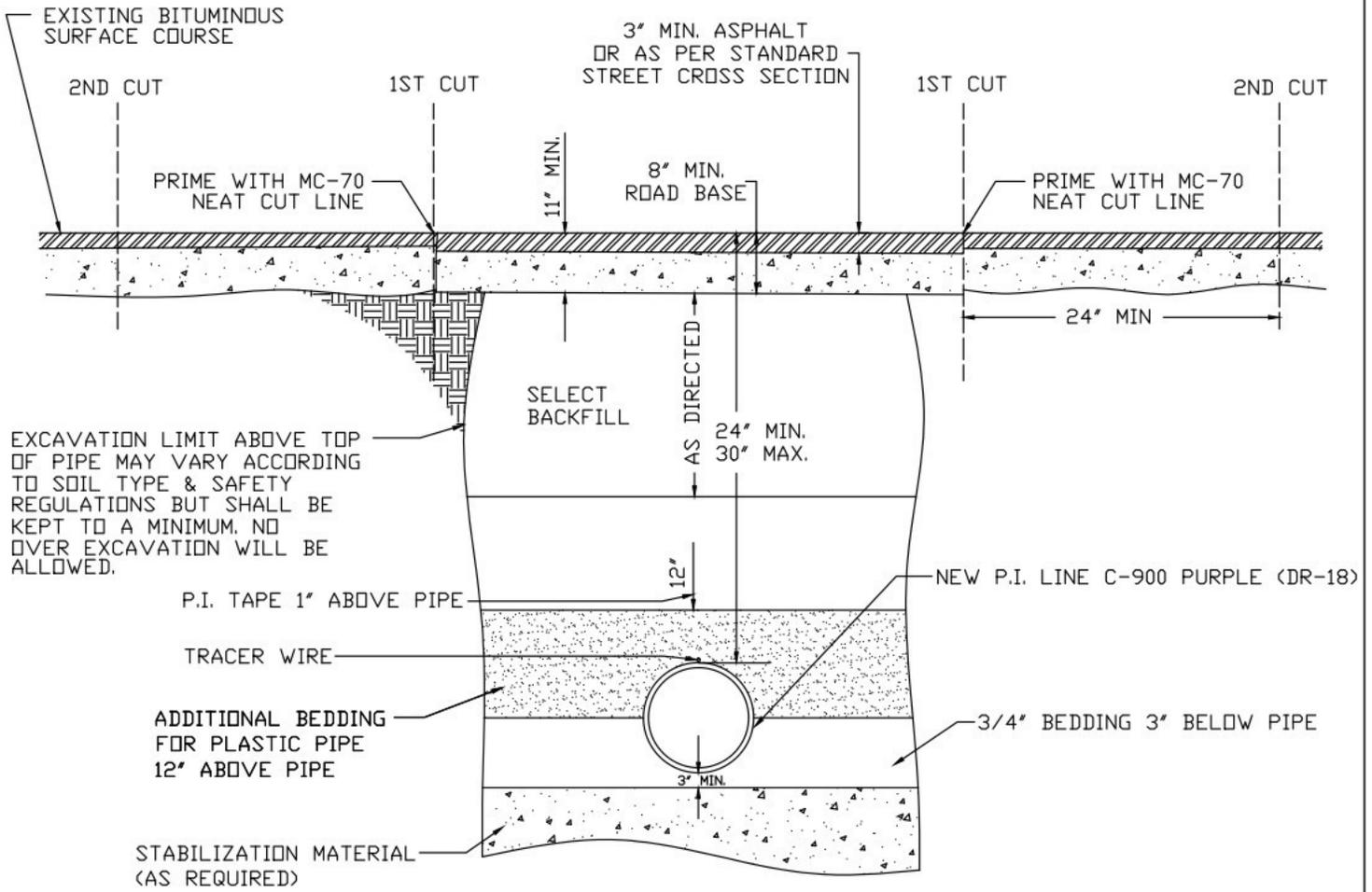
**HIGHLAND CITY**  
 PUBLIC WORKS AND ENGINEERING

STD DWG #

P.I. 1-INCH METER BOX DETAIL

**PI-02**

NO	REVISION DESCRIPTION	BY	APR	DATE	LAST UPDATED: 1/29/2015

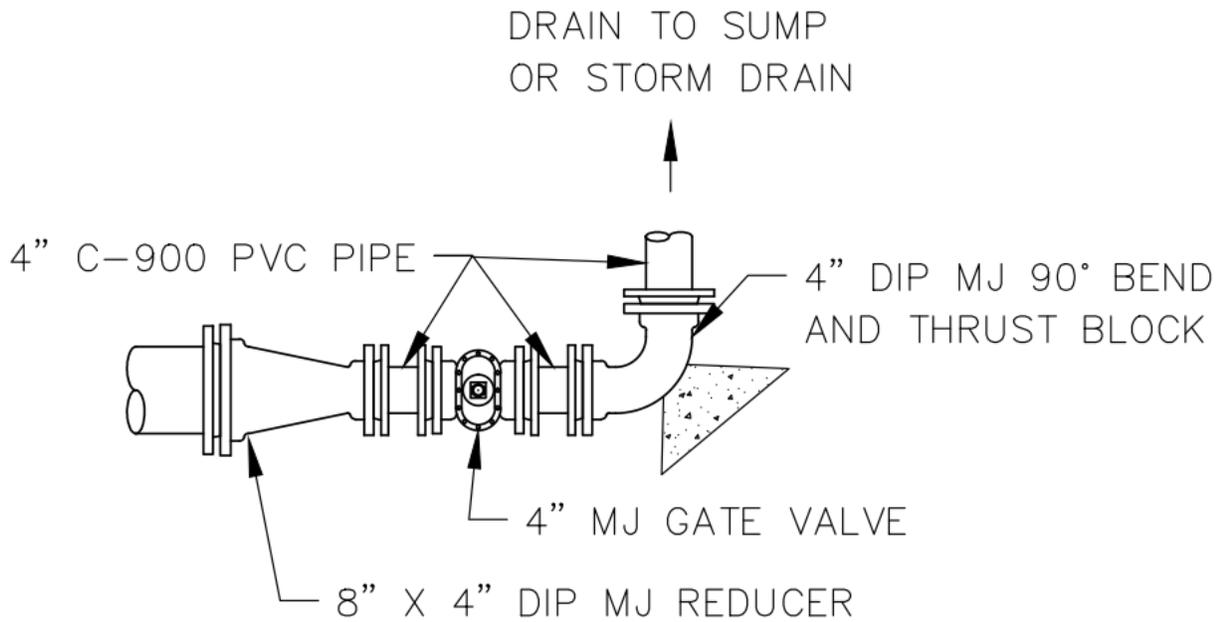


NOTES: USE APWA AS GUIDE  
 POLYWRAP (AWWA) C 105  
 FM GREASE ON BOLTS  
 PG 58-28 PERFORMANCE GRADE ASPHALT

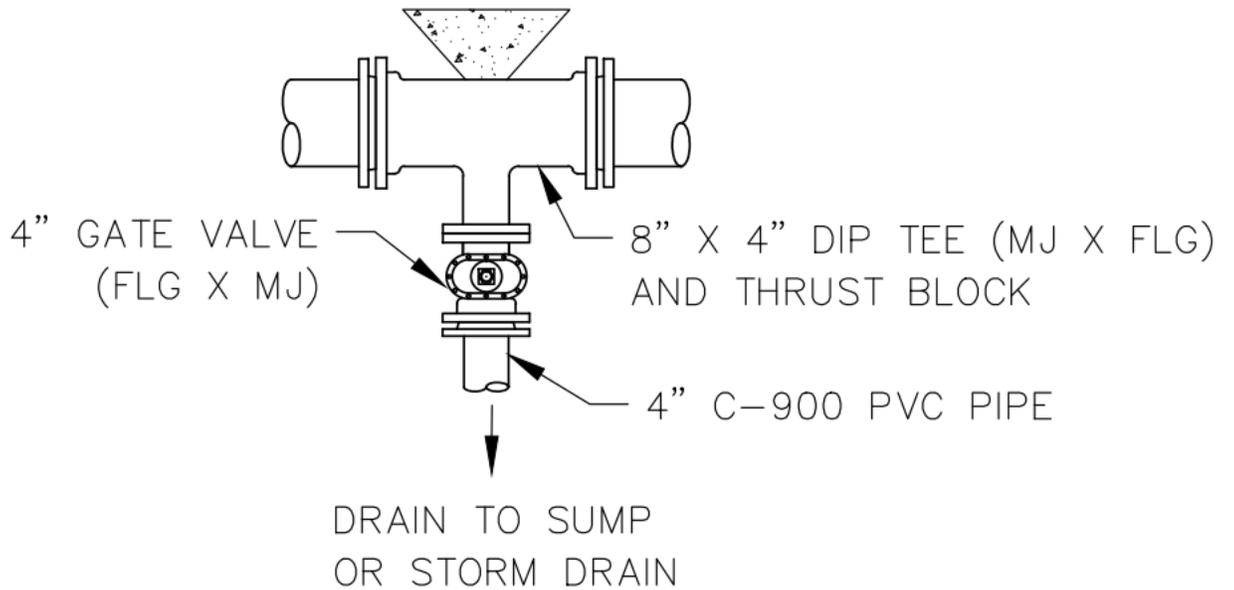
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NO	REVISION DESCRIPTION	BY	APR	DATE									

# END OF LINE 4" DRAIN



# LOW SPOT IN LINE



Plot Date: 1/29/2015 3:23 PM, Plotted By: Jason Bradford  
Date Created: 7/23/2014, H:\PROJECTS\314 - HIGHLAND CITY\05.10 - MISC CONSULTING\STANDARD DETAILS\HIGHLAND CITY\PI-04 DRAIN DETAIL.DWG

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LAST UPDATED: 1/29/2015

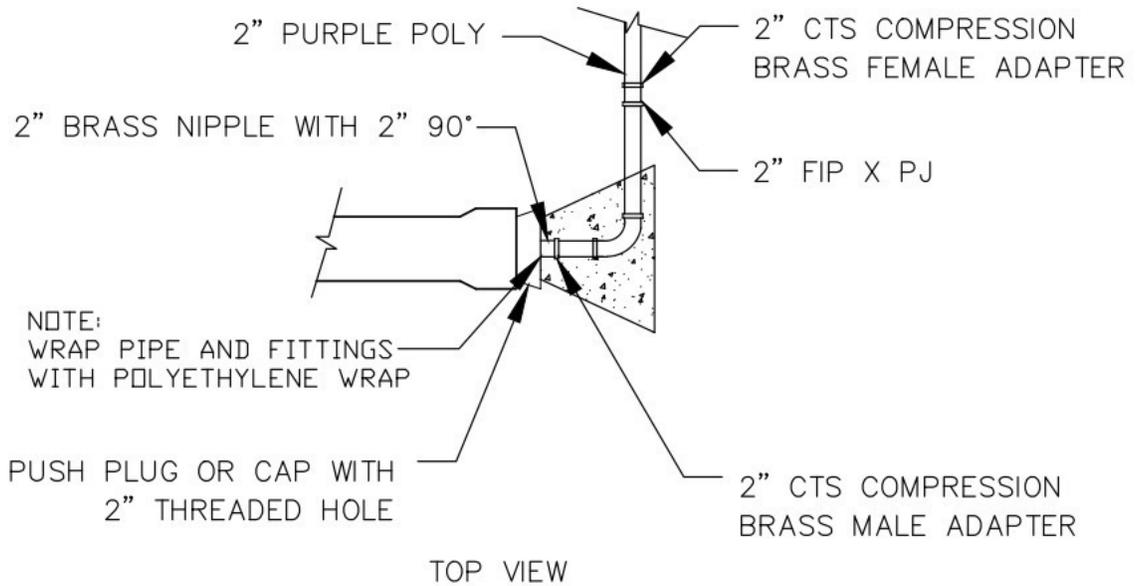
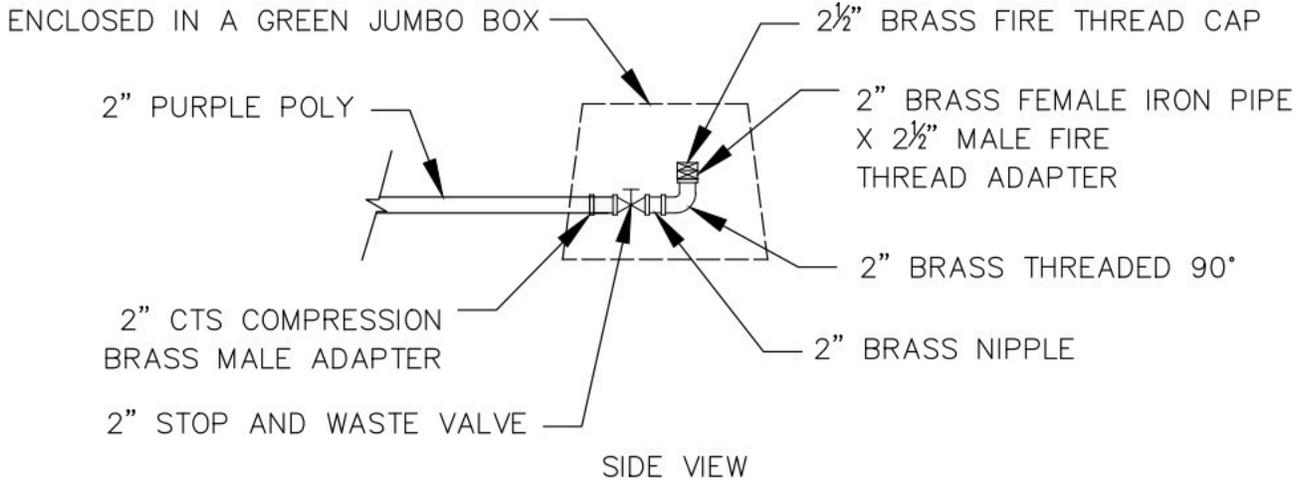


<b>HIGHLAND CITY</b> PUBLIC WORKS AND ENGINEERING
P.I. DRAIN DETAIL

STD DWG #
PI-04

P.I. BLOW-OFF IN CUL-DE-SAC  
END IN PARKSTRIP ON PROPERTY LINE

( S S USED WITH FLOW DRAINS OUT OF CUL DE SAC )



Plot Date: 1/29/2015 3:28 PM Plotted By: Jason Bradford  
 Data: C:\hcd\723\2014\_HIGHLAND\CITY\05\_100 - MISC CONSULTING\STANDARD DETAILS\HIGHLAND CITY P.I. BLOW-OFF IN CUL-DE-SAC DETAIL.DWG

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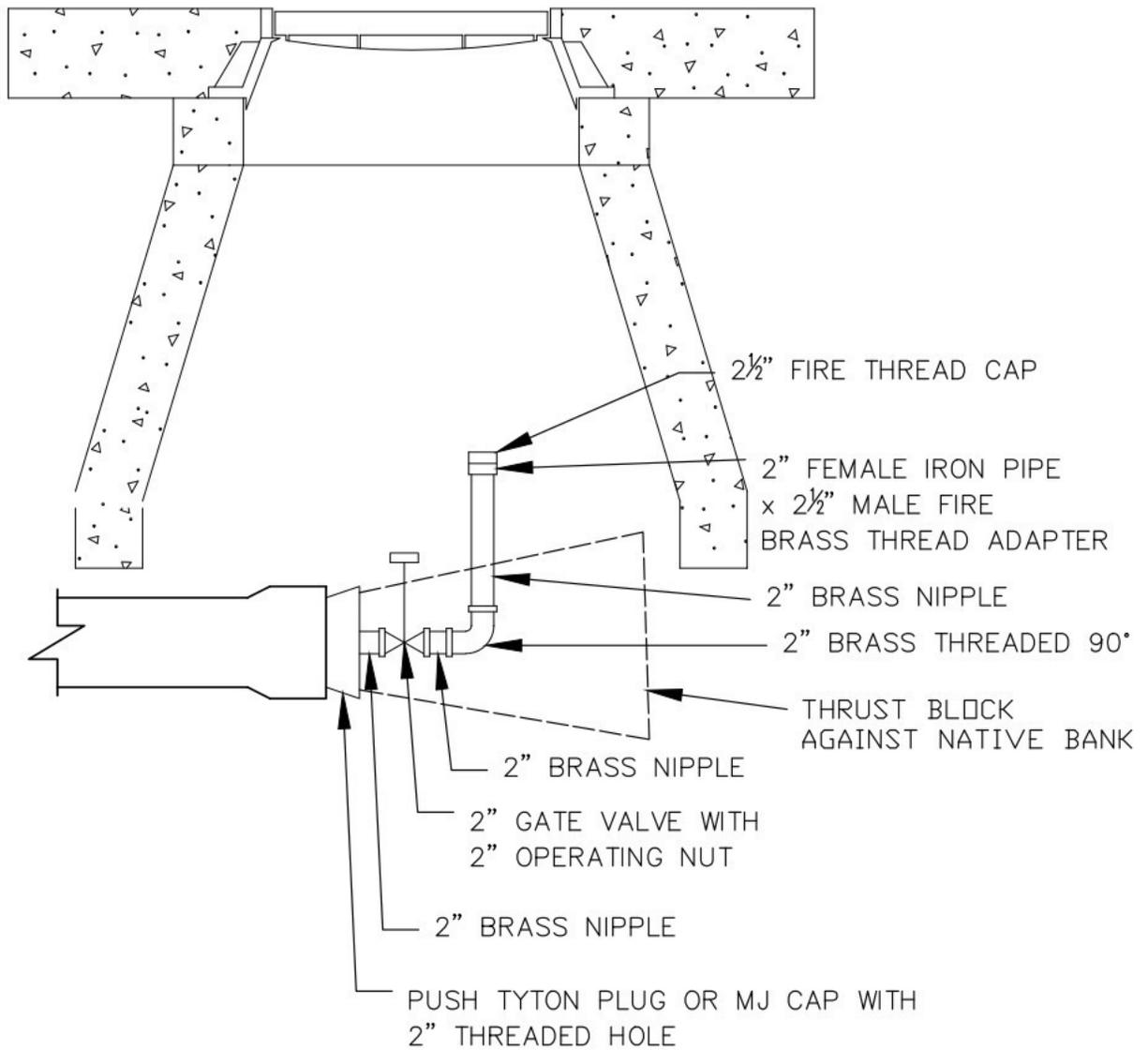
**HIGHLAND CITY**  
 PUBLIC WORKS AND ENGINEERING

P.I. BLOW OFF IN CUL-DE-SAC

STD DWG #

**PI-05**

# TEMPORARY P.I. BLOW-OFF



**NOTE:**

THIS IS ENCLOSED IN A 60" MANHOLE CONE  
 MANHOLE LID TO SAY "IRRIGATION". CONE TO  
 BE PLACED OVER PIPE AND THRUST BLOCK.  
 NO LOAD SHALL BEAR ON THE PIPE FROM THE CONE.

Plot Date: 1/29/2015 3:24 PM, Plotted By: Jason Bradford  
 Date Created: 7/26/2011, PROJECTS\314 - HIGHLAND CITY\05 - 00 - MSC CONSULTING\STANDARD DETAILS\HIGHLAND CITY PI\06 TEMPORARY PI BLOW-OFF DETAIL.DWG

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STD DWG #

**PI-06**

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