



HIGHLAND CITY

STANDARD DRAWINGS

Adopted January 16, 2024

STANDARD DRAWINGS

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THESE NOTES TO BE ADDED TO AND KEPT WITH ALL SUBDIVISION IMPROVEMENT PLAN SETS

GENERAL NOTES:

1. THESE NOTES SHALL BE DEEMED AN ADDENDUM TO THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) MANUAL STANDARD SPECIFICATIONS. HIGHLAND CITY FOLLOWS THE MOST CURRENT APWA SPECIFICATIONS AND STANDARD PLANS (AVAILABLE AT WWW.APWAUTAH.ORG)
2. TWO (2) WORKING DAYS' NOTICE IS REQUIRED FOR ALL INSPECTIONS. INSPECTIONS ARE TO BE SCHEDULED THROUGH THE PUBLIC WORKS SECRETARY EITHER VERBALLY (801-772-4515), OR BY EMAIL (PUBLICWORKS@HIGHLANDCITY.ORG).
3. HIGHLAND CITY ENGINEERING INSPECTORS WORK MONDAY THROUGH THURSDAY (7:00 A.M. TO 5:30 P.M.). INSPECTIONS WILL BE SCHEDULED BETWEEN 7:30 A.M. AND 5:00 P.M.
4. ANY WORK PERFORMED WITHOUT THE PROPER APPROVALS OR INSPECTIONS TAKING PLACE WILL BE REMOVED AT THE CONTRACTOR'S EXPENSE AND RE-DONE WITH THE PROPER APPROVALS OR INSPECTIONS. MATERIAL REPLACEMENT OR RE-DESIGN MAY BE REQUIRED AT THE DISCRETION OF THE CITY INSPECTOR AND AT THE EXPENSE OF THE CONTRACTOR.
5. ALL CONSTRUCTION SHALL BE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS STAMPED "APPROVED FOR CONSTRUCTION, HIGHLAND PUBLIC WORKS" WITH A DATE AND SIGNATURE. THESE PLANS ARE TO BE ON-SITE AT ALL TIMES AND AVAILABLE TO THE CITY INSPECTOR FOR REVIEW. IF THE PLANS ARE NOT ON SITE, A STOPPAGE OF WORK WILL BE ISSUED UNTIL THE PLANS ARE AVAILABLE.
6. ANY CHANGES TO THE APPROVED CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE CITY ENGINEER AND DESIGN ENGINEER. THIS APPROVAL WILL BE GIVEN IN WRITING BY THE CITY ENGINEER TO THE CONTRACTOR AND THE DEVELOPER. UNTIL SUCH WRITTEN AUTHORIZATION IS RECEIVED, THERE HAS BEEN NO APPROVAL GRANTED TO CHANGE THE PLANS.
7. THE CONTRACTOR IS RESPONSIBLE FOR REPORTING ANY ERRORS FOUND ON THE APPROVED DRAWINGS, AS SOON AS THEY ARE DISCOVERED, TO THE CITY ENGINEER AND THE DESIGN ENGINEER. A WRITTEN ADDENDUM, WRITTEN BY THE CITY ENGINEER, WILL BE ISSUED TO THE CONTRACTOR AND THE DEVELOPER NOTIFYING THEM OF THE CHANGE TO THE PLANS. THERE WILL BE NO COST TO THE CITY FOR THESE CHANGES.
8. THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY DAMAGE THAT MAY OCCUR FROM THE PROJECT. THE CONTRACTOR SHALL ENSURE THAT ALL NECESSARY APPROVALS FOR WORK THAT IMPACTS OR IS LOCATED ON ADJACENT PROPERTIES OR WATER CONVEYANCE FACILITIES ARE OBTAINED IN WRITING AND PROVIDED TO THE CITY PRIOR TO BEGINNING WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY REQUIREMENTS ON THE JOB SITE AND WILL ENSURE ENFORCEMENT OF THE NECESSARY AND GOVERNING REGULATIONS.
10. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED (IE NO CONCRETE).
11. THE PARK STRIP SHALL BE FILLED WITH NATIVE TOPSOIL, LEVEL WITH TOP OF CURB. NO ROCKS GREATER THAN THREE (3) INCHES.
12. HIGHLAND CITY DEFINES THE TIME FOR COMPLETION OF THE PUNCH LIST ITEMS TO BE THIRTY (30) DAYS.

UTILITY NOTES:

1. UNLESS OTHERWISE NOTED ON THE PLANS, THE EXISTING UTILITIES AND THEIR LOCATIONS ARE TAKEN FROM RESEARCH DATA OF AVAILABLE RECORDS AND NOT ACTUAL FIELD VERIFICATIONS.
2. THE EXISTING UTILITIES LOCATED ON THE PLANS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. NEITHER THE CITY ENGINEER, DESIGN ENGINEER, NOR THE DEVELOPER WILL BEAR ANY RESPONSIBILITY FOR THE ACCURACY OF THE DATA OR FOR UTILITIES NOT SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF THESE UTILITIES.
3. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL LAWS AND REGULATIONS REGARDING UTILITY LOCATIONS AND EXCAVATING AROUND THESE UTILITIES, INCLUDING THE REQUIRED ROAD CUT / RIGHT OF WAY PERMIT.
4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES THAT ARE TO REMAIN IN PLACE. ANY DAMAGE DONE BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED AND/OR REPLACED SATISFACTORILY BY THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.

QUALITY CONTROL AND TESTING:

- A. BASE
 1. ALL TESTING PERFORMED WILL BE AT NO COST TO THE CITY.
 2. ALL COMPACTION TESTING SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL BEFORE MOVING TO THE NEXT PHASE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO ASPHALT, SIDEWALK, CURB, GUTTER, ETC.
 3. ALL TESTING WILL BE PERFORMED BY A CERTIFIED TESTING LABORATORY AND A CERTIFIED TESTER.
 4. COMPACTION SHALL MEET THE 95% MODIFIED PROCTOR REQUIREMENTS.
 5. THE CITY INSPECTOR HAS THE AUTHORITY TO DIRECT THE LOCATION OF TESTING OR TO CALL FOR ADDITIONAL TESTS IF DEEMED NECESSARY.
- B. SUBBASE
 1. ALL TESTING PERFORMED WILL BE AT NO COST TO THE CITY.
 2. ALL SUBBASES (OR SUBGRADE IF NO SUBBASE IS USED) WILL HAVE A PROOF ROLLING TEST WITH A CITY INSPECTOR ON SITE.
 3. PROOF ROLLING TESTS WILL CONSIST OF DRIVING OVER THE SUBBASE/SUBGRADE WITH A FULLY LOADED FOUR THOUSAND (4,000) GALLON WATER TRUCK TO CHECK FOR ANY TYPE OF DEFLECTION IN THE MATERIAL.
 4. THE CITY INSPECTOR SHALL HAVE THE DISCRETION TO REQUEST THE REMOVAL OF MATERIAL AND THE AMOUNT AT LOCATIONS OF FAILURES.
 5. THE FAILED MATERIAL SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR AND RETESTED.
- C. TRENCH COMPACTION
 1. ALL TESTING PERFORMED WILL BE AT NO COST TO THE CITY.
 2. TESTING RESULTS ARE REQUIRED TO BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL BEFORE THE NEXT PHASE OF CONSTRUCTION CAN BEGIN.
 3. COMPACTION TESTS ARE REQUIRED EVERY TWO HUNDRED (200) LINEAR FEET OF EACH UTILITY AND EVERY TWO (2) FEET OF VERTICAL LIFT.
 4. MAXIMUM LIFT THICKNESS IS EIGHT (8) INCHES.
- D. SIDEWALKS AND CURB & GUTTER
 1. ALL TESTING PERFORMED WILL BE AT NO COST TO THE CITY.
 2. TESTING RESULTS ARE REQUIRED TO BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL BEFORE THE NEXT PHASE OF CONSTRUCTION CAN BEGIN.
 3. SIDEWALKS – COMPACTION TESTS ARE REQUIRED EVERY FOUR HUNDRED (400) LINEAR FEET PER LIFT.
 4. CURB AND GUTTER–COMPACTION TESTS ARE REQUIRED EVERY TWO HUNDRED (200) LINEAR FEET PER LIFT.
 5. MAXIMUM LIFT THICKNESS IS EIGHT (8) INCHES.

TRAFFIC NOTES:

1. ALL CONSTRUCTION SIGNAGE, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
2. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE.
3. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING PUBLIC RIGHTS-OF-WAY THAT WERE WARRANTED IMMEDIATELY AFTER THE FIRST GRADING WORK IS ACCOMPLISHED AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. IF IT IS DETERMINED BY THE PUBLIC WORKS DEPARTMENT THAT A SCHOOL ZONE IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE, AND IT IS DETERMINED THAT THERE IS A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE SCHOOL SHALL BE NOTIFIED, AND THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED CROSSING GUARD. THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THOSE CHILDREN ARE LIKELY TO BE PRESENT AND/OR AS REQUESTED BY THE SCHOOL.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY ENGINEER OR DESIGNEE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGNPOSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
6. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION.
7. THE CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, FLASHERS, OTHER EQUIPMENT, AND FLAG PERSONS NECESSARY TO ENSURE THE SAFETY OF WORKERS AND VISITORS.

STATEMENT OF USE

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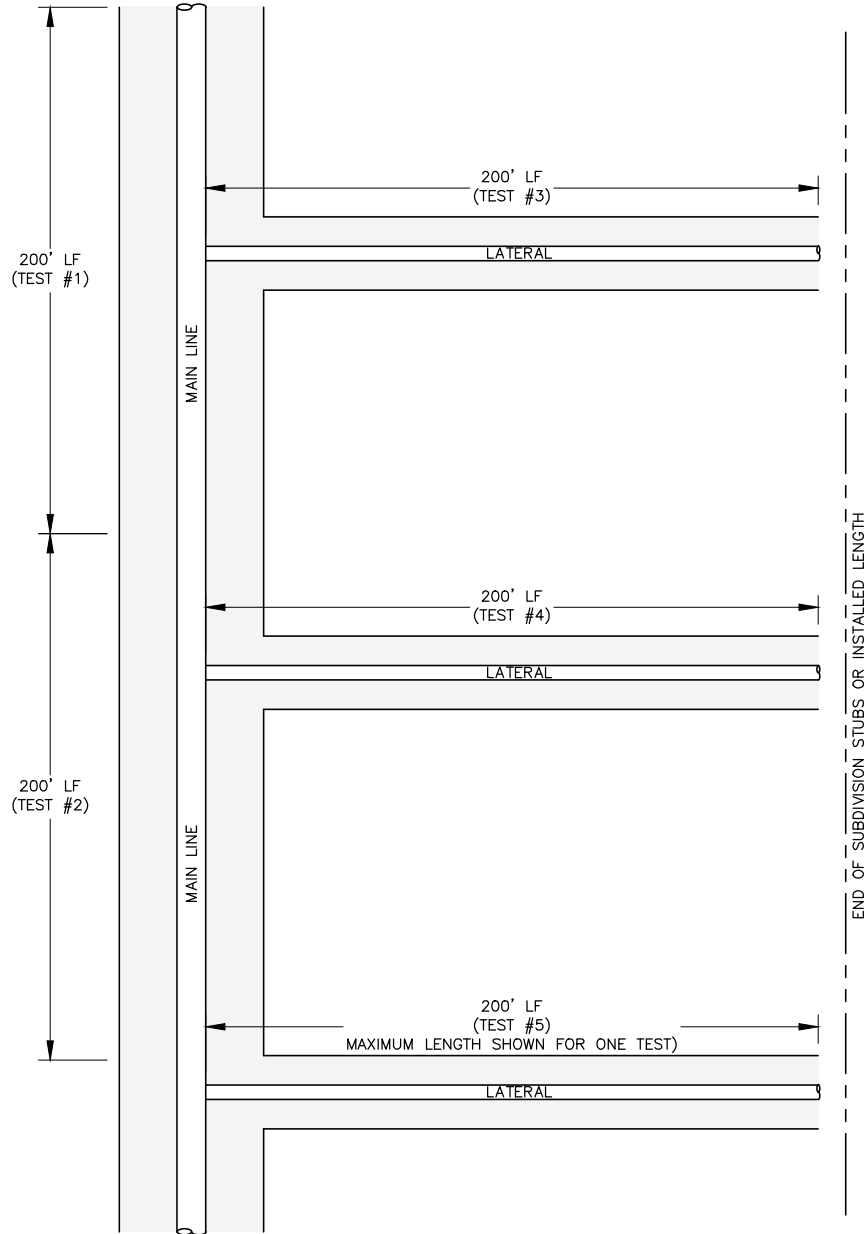
HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

GENERAL NOTES

STD DWG #

GN-00

NO. REVISION DESCRIPTION BY APR. DATE LAST UPDATED: 12/11/2023



TRENCH COMPACTION FREQUENCY

MAIN LINE	200 LINEAR FEET PER LIFT
LATERALS	200 LINEAR FEET PER LIFT

- 1) MODIFIED PROCTOR PER ASTM D1557
- 2) MAX LIFT THICKNESS: 8 INCHES BEFORE COMPACTION
- 3) EACH LATERAL TRENCH SHALL BE CONSIDERED A SEPARATE TRENCH FOR TESTING PURPOSES
- 4) ALL LATERALS, REGARDLESS OF LENGTH, TO BE TESTED

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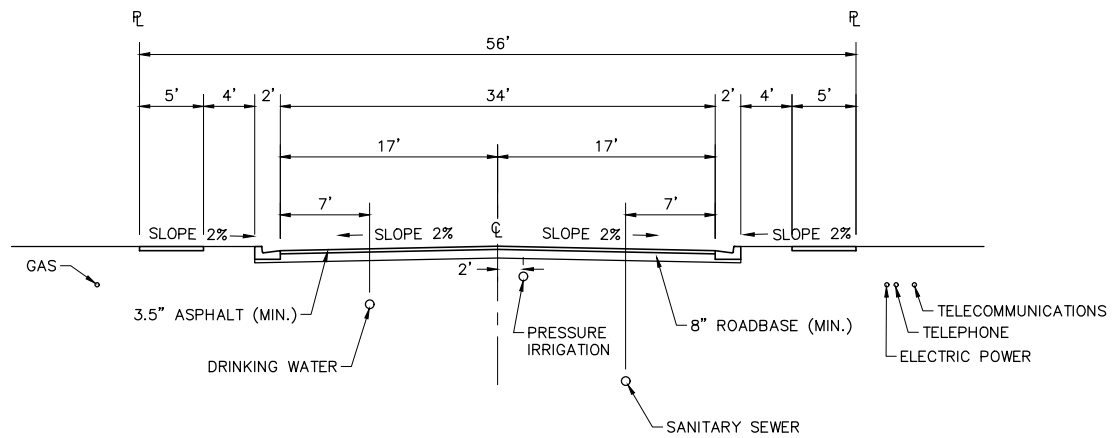
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TRENCH COMPACTION TESTING FREQUENCY

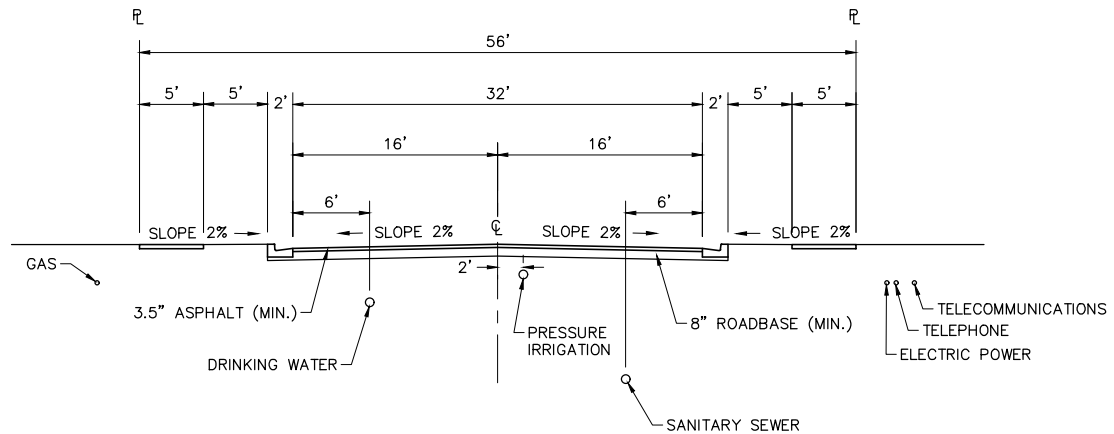
STD DWG #

GN-01

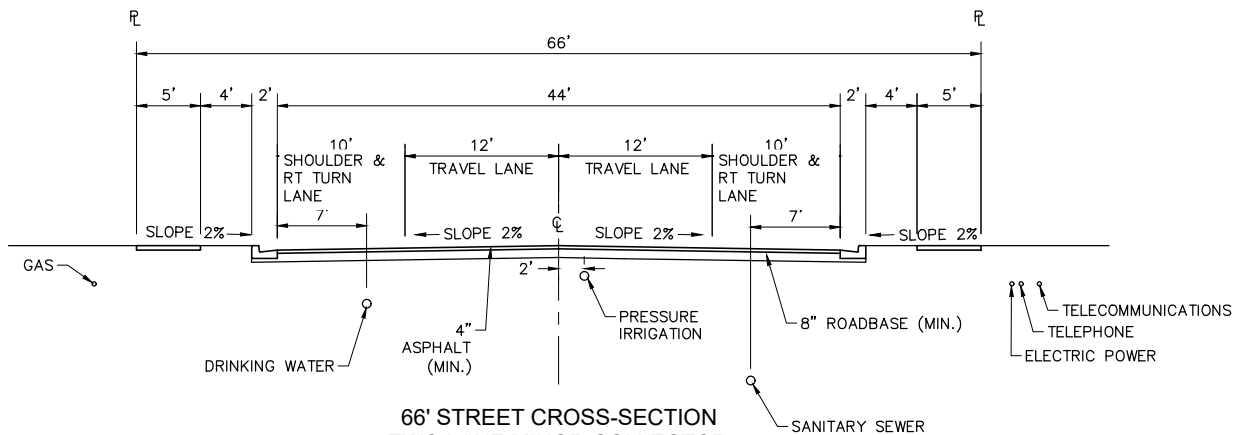
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**56' STREET CROSS-SECTION
STANDARD SUBDIVISION STREET
LOOKING NORTH OR EAST**
SCALE: NTS



**56' STREET CROSS-SECTION
LOW VOLUME SUBDIVISION STREET
LOOKING NORTH OR EAST**
SCALE: NTS



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

NOTES:

- WHENEVER POSSIBLE, DRINKING 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 DRINKING WATER LINES OR AS APPROVED BY THE CITY.
- REQUIRED UTILITY MINIMUM PIPE SIZES AS FOLLOWS:
DRINKING WATER - 8" MIN
PRESSURE IRRIGATION - 8" MIN
SANITARY SEWER - 8" MIN
STORM DRAIN - 15" MIN
- REQUIRED COVER OVER UTILITY LINES AS FOLLOWS:
DRINKING WATER - 48" TO 60"
PRESSURE IRRIGATION - 36"
SANITARY SEWER - 10' TO 14'
STORM DRAIN - PER DESIGN
ALL OTHERS - PER UTILITY

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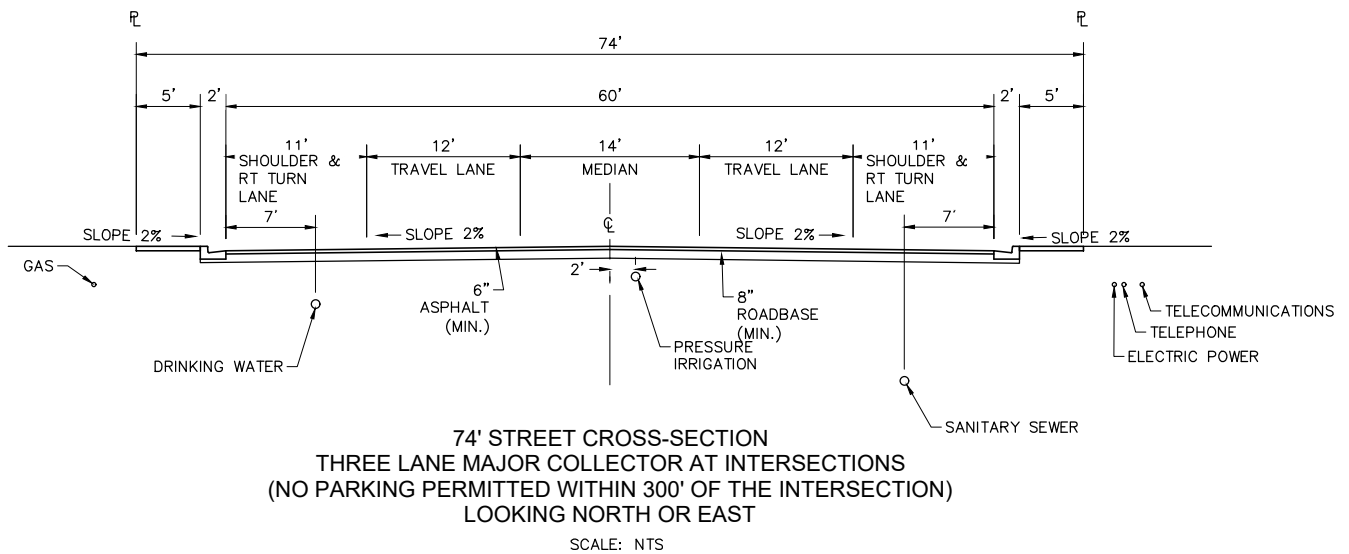
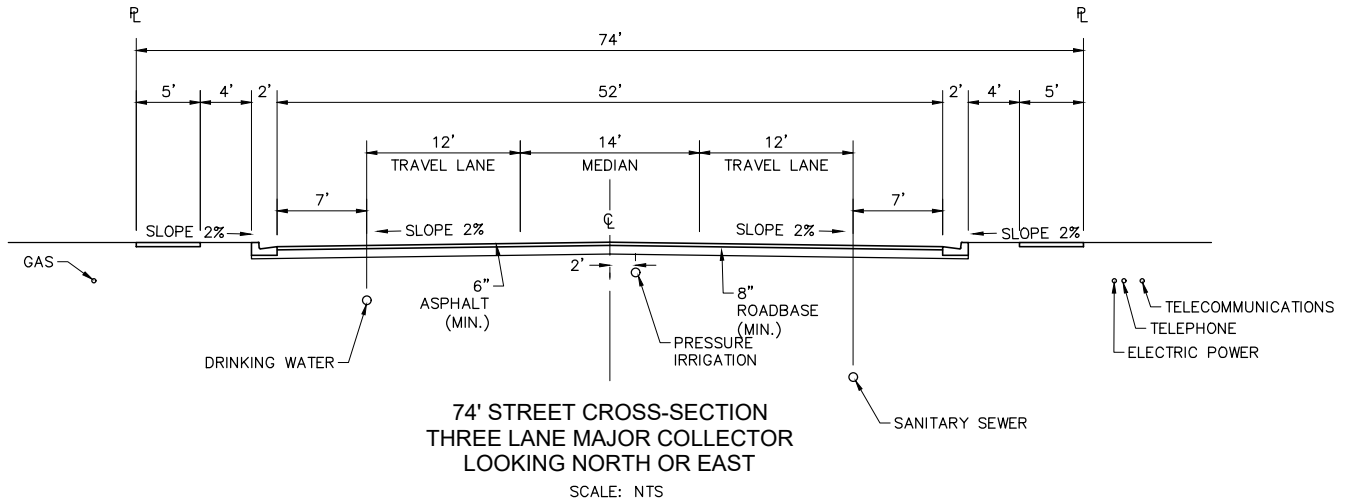
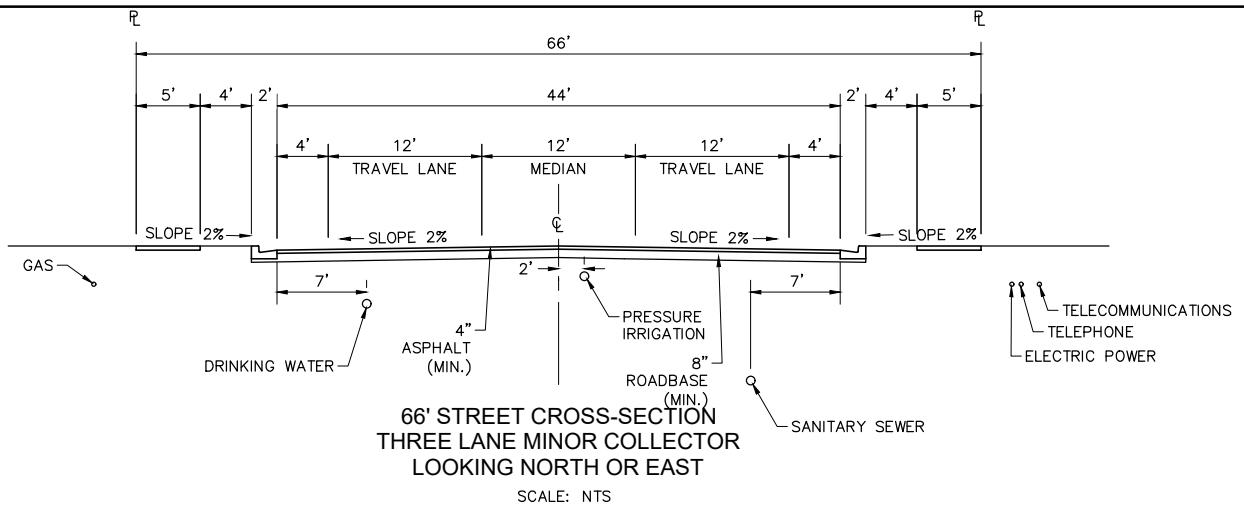
**HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING**

MINOR STREET CROSS SECTIONS

STD DWG #

ST-01

NO. REVISION DESCRIPTION BY APR. DATE LAST UPDATED: 12/7/2023



NOTES:

- WHENEVER POSSIBLE, DRINKING 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 DRINKING WATER LINES OR AS APPROVED BY THE CITY.
- REQUIRED MINIMUM UTILITY PIPE SIZES AS FOLLOWS:
DRINKING WATER - 8" MIN
PRESSURE IRRIGATION - 8" MIN
SANITARY SEWER - 8" MIN
STORM DRAIN - 15" MIN
- REQUIRED COVER OVER UTILITY LINES AS FOLLOWS:
DRINKING WATER - 48" TO 60"
PRESSURE IRRIGATION - 36"
SANITARY SEWER - 10' TO 14'
STORM DRAIN - PER DESIGN
ALL OTHERS - PER UTILITY

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PUBLIC WORKS AND ENGINEERING**

MAJOR STREET CROSS SECTIONS

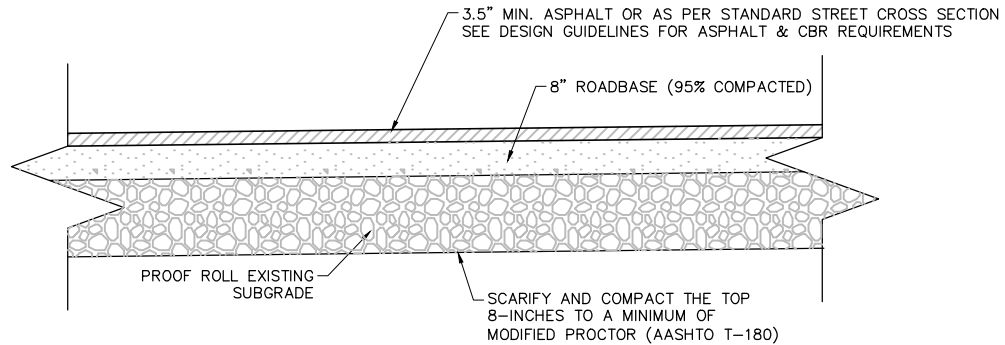
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ST-02

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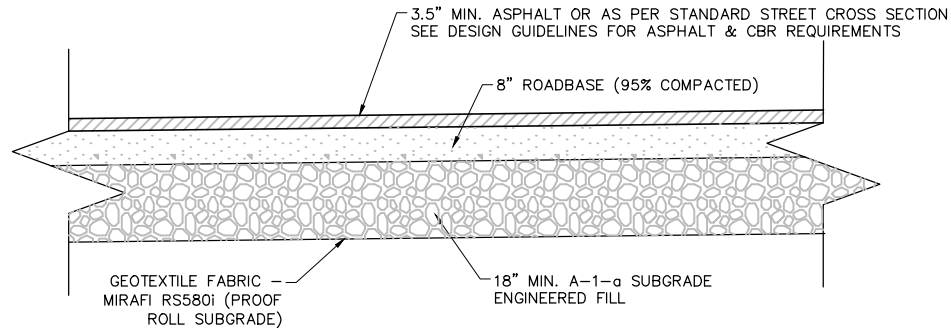
NOTE:

1. ALL ASPHALT PLACED SHALL BE PER APWA LATEST SPECIFICATION.
2. ASPHALT TO BE PG 58-28 FOR CLASS 1 ROADS OR 64-34 FOR CLASS 2 AND CLASS 3 ROADS PER APWA 32 12 05. ROAD CLASS DEFINITION PER APWA 32 01 31.
3. SMOOTHNESS TO BE PER APWA SPEC WITH NO MORE THAN $\frac{1}{4}$ " BUMP.
4. ALL SUBGRADE CBR VALUES SHALL BE IDENTIFIED.
5. IF A SUBGRADE IS FOUND TO HAVE A CBR ABOVE 10, THEN THE TYPICAL ROAD PAVEMENT SHALL BE FOLLOWED.
6. IF A CBR IS FOUND TO BE BELOW 10 THE NORTHWEST AREA ROAD PAVEMENT SECTION SHALL BE FOLLOWED.
7. SITE SPECIFIC PAVEMENT DESIGN SHALL BE COMPLETED BY GEOTECHNICAL ENGINEER AND FOLLOWED. PAVEMENT SECTION MUST BE AT LEAST THE CITY MINIMUM SECTION OR A MORE ROBUST SECTION THAN CITY MINIMUM IF DETERMINED NECESSARY BY THE GEOTECHNICAL ENGINEER.



TYPICAL ROAD PAVEMENT SECTION

SCALE: NTS



NORTHWEST AREA ROAD PAVEMENT SECTION

SCALE: NTS

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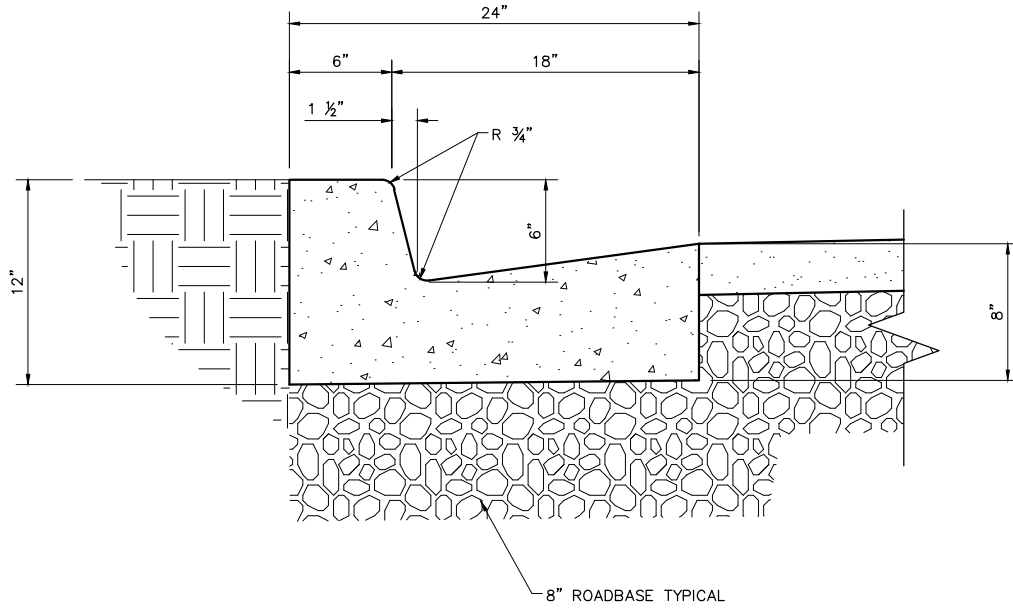
**HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING**

PAVEMENT SECTION DETAIL

STD DWG #

ST-03

NOTE:
CONTRACTION JOINTS EVERY 10' MAXIMUM AND
EXPANSION JOINTS EVERY 50' MAXIMUM.
CONCRETE TO HAVE 7-DAY CURE BEFORE PLACING
ADJACENT ASPHALT OR BACKFILL.



24" CURB AND GUTTER DETAIL
SCALE: NTS

*CURB STAMPS FOR ALL UTILITIES AT LATERAL LOCATION
"S" - SEWER
"W" - DRINKING WATER
"PI" - PRESSURIZED IRRIGATION
"U" - UTILITIES CONDUIT

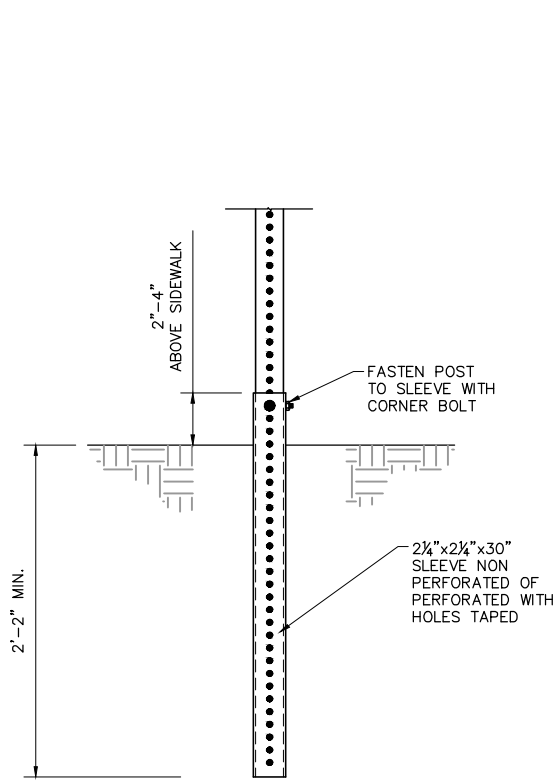
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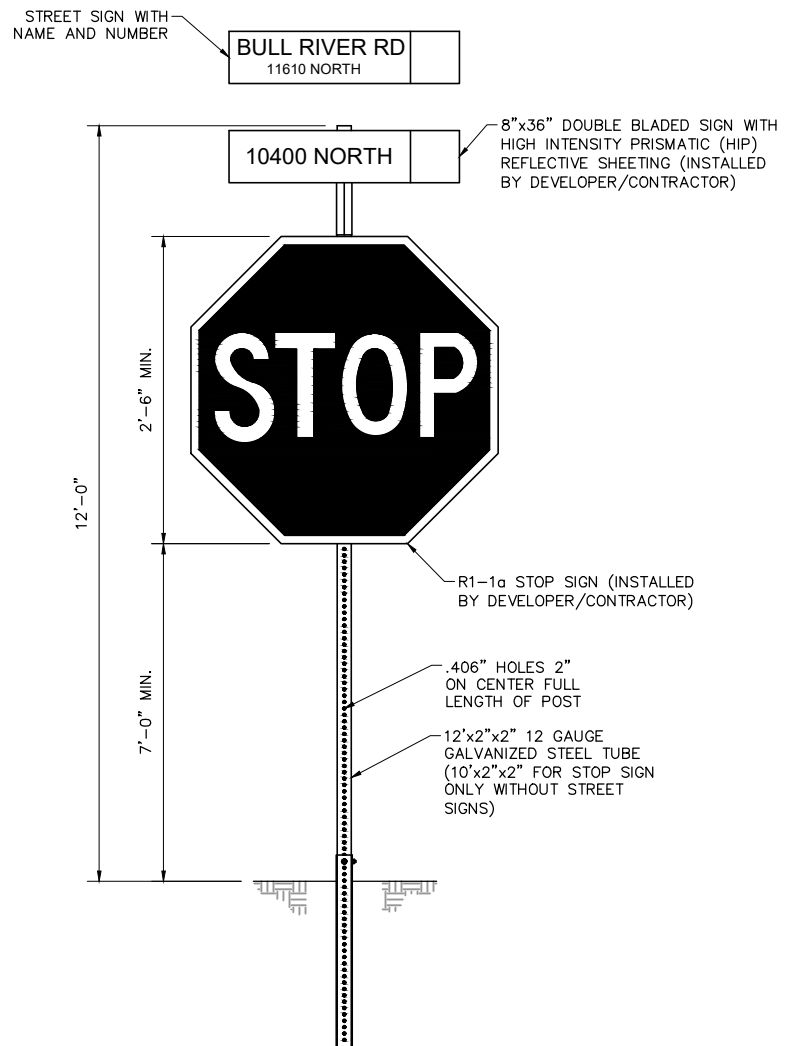


HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING
CURB AND GUTTER DETAIL

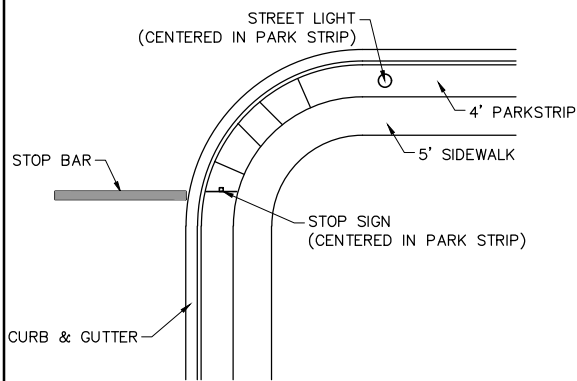
STD DWG #
ST-04



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



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



**TYPICAL STREET/STOP SIGN
AND LIGHT LOCATION
PLAN VIEW**
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.

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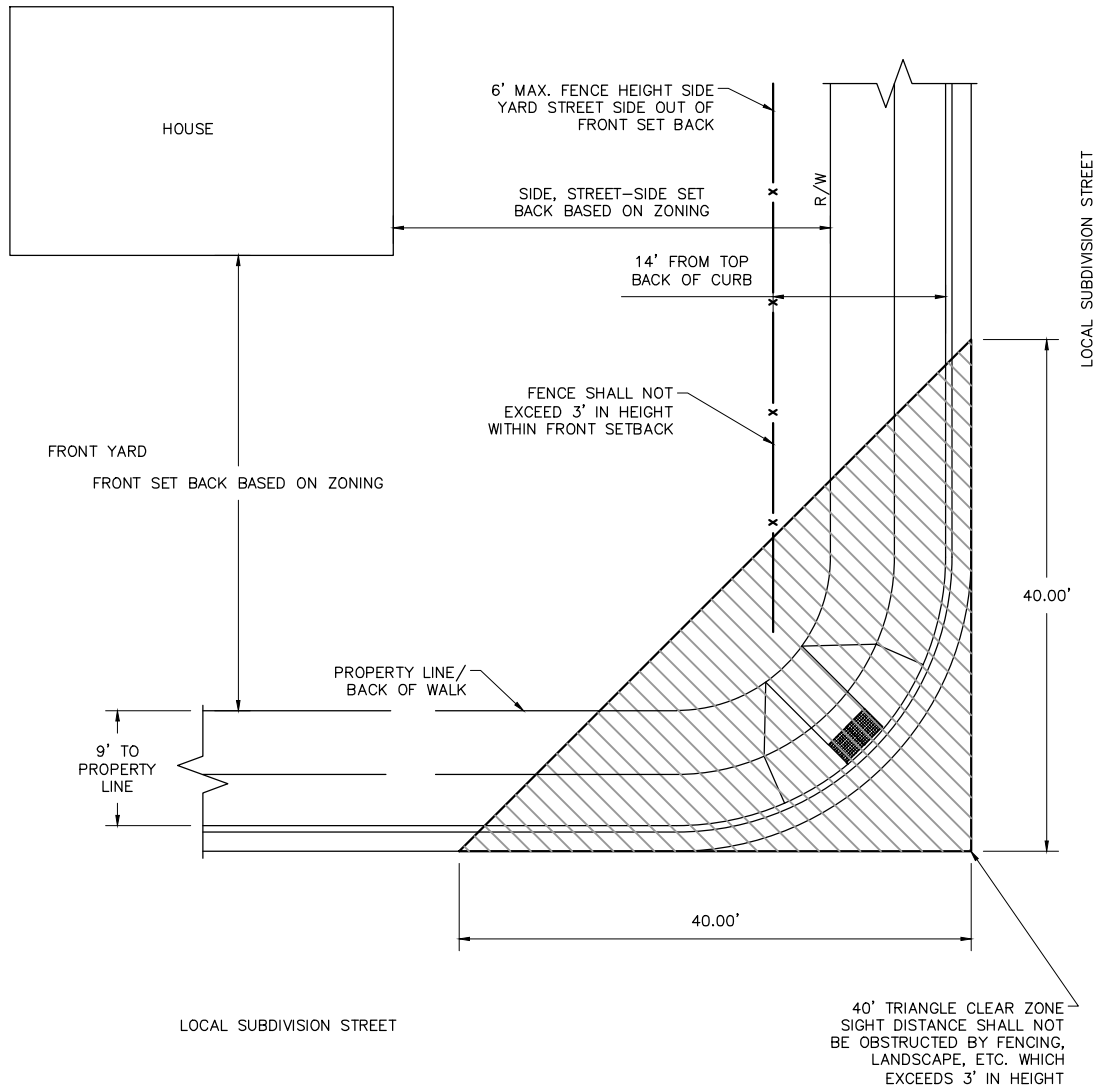
STOP SIGN DETAIL

STD DWG #

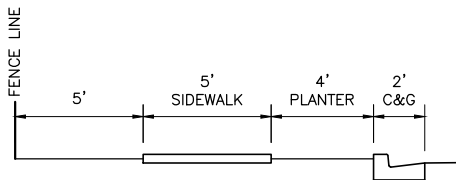
ST-05

NO.	REVISION DESCRIPTION	BY	APPR	DATE	LAST UPDATED: 12/7/2023

NOTE: SEE APPROPRIATE NOTES IN
HIGHLAND TRAFFIC CALMING MANUAL &
CITY DESIGN CRITERIA



SIGHT TRIANGLE
SCALE: NTS



TYPICAL CROSS SECTION LOCAL STREETS
SCALE:
NTS

NOTE:
1. SIGHT DISTANCE SHALL ALSO COMPLY WITH
HIGHLAND CITY DESIGN CRITERIA, SECTION 2.06 (F).

GENERAL NOTES:

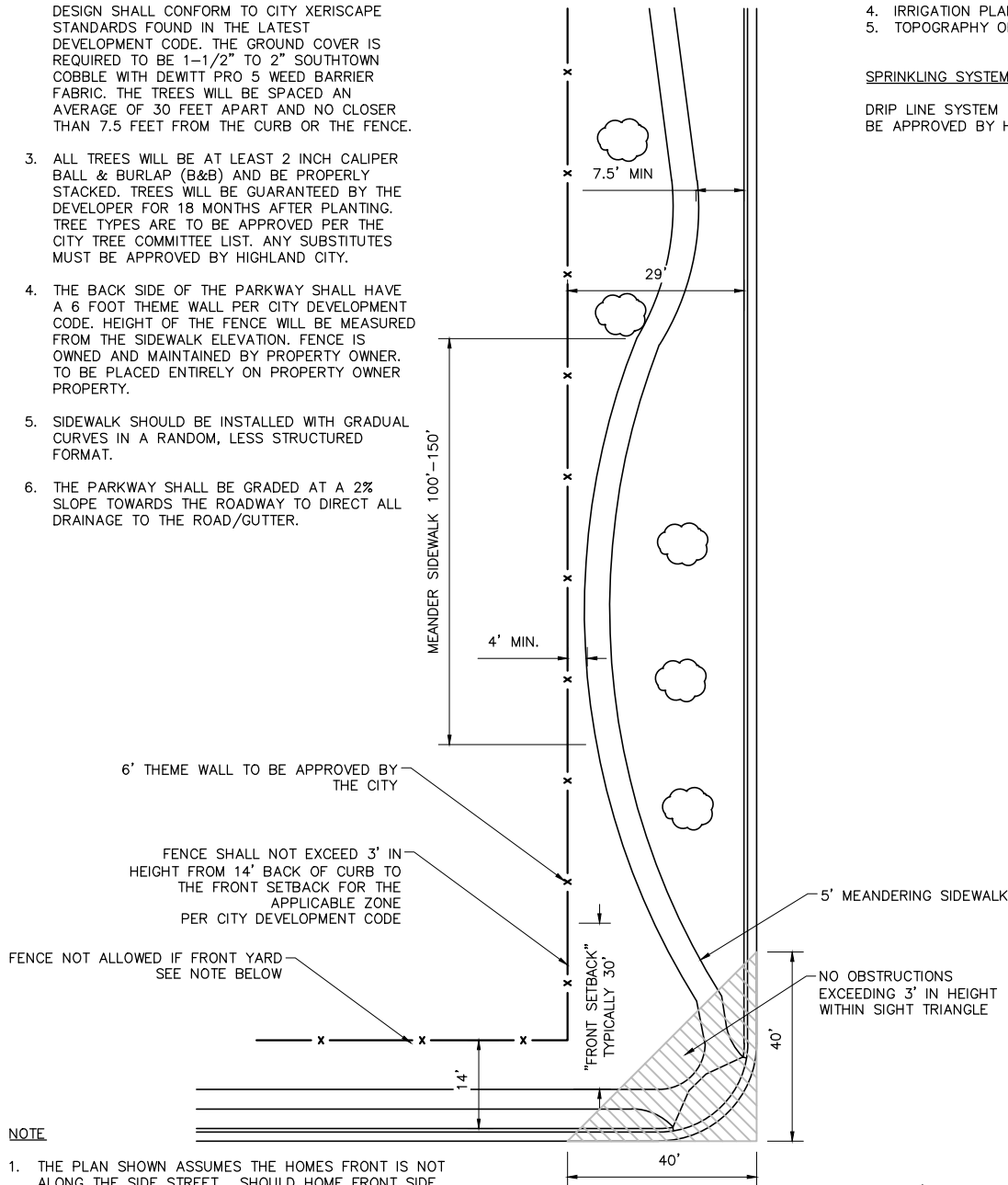
1. THE PARKWAY IS DESIGNED AS A 29 FOOT WIDE STRIP WITH A 5 FOOT MEANDERING SIDEWALK, LANDSCAPING, AND FENCE.
2. THE LENGTH OF THE PARKWAY MUST BE XERISCAPE. THE PARKWAY PLANTING PLAN AND LAYOUT SHALL BE PROVIDED FOR REVIEW AS PART OF THE CITY PLAN APPROVAL PROCESS. DESIGN SHALL CONFORM TO CITY XERISCAPE STANDARDS FOUND IN THE LATEST DEVELOPMENT CODE. THE GROUND COVER IS REQUIRED TO BE 1-1/2" TO 2" SOUTHTOWN COBBLE WITH DEWITT PRO 5 WEED BARRIER FABRIC. THE TREES WILL BE SPACED AN AVERAGE OF 30 FEET APART AND NO CLOSER THAN 7.5 FEET FROM THE CURB OR THE FENCE.
3. ALL TREES WILL BE AT LEAST 2 INCH CALIPER BALL & BURLAP (B&B) AND BE PROPERLY STACKED. TREES WILL BE GUARANTEED BY THE DEVELOPER FOR 18 MONTHS AFTER PLANTING. TREE TYPES ARE TO BE APPROVED PER 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 THEME WALL PER CITY DEVELOPMENT CODE. HEIGHT OF THE FENCE WILL BE MEASURED FROM THE SIDEWALK ELEVATION. FENCE IS OWNED AND MAINTAINED BY PROPERTY OWNER. TO BE PLACED ENTIRELY ON PROPERTY OWNER PROPERTY.
5. SIDEWALK SHOULD BE INSTALLED WITH GRADUAL CURVES IN A RANDOM, LESS STRUCTURED FORMAT.
6. THE PARKWAY SHALL BE GRADED AT A 2% SLOPE TOWARDS THE ROADWAY TO DIRECT ALL DRAINAGE TO THE ROAD/GUTTER.

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 INCLUDING MATERIALS.
 3. SIDEWALK DESIGN.
 4. IRRIGATION PLAN.
 5. TOPOGRAPHY OF PARKWAY.

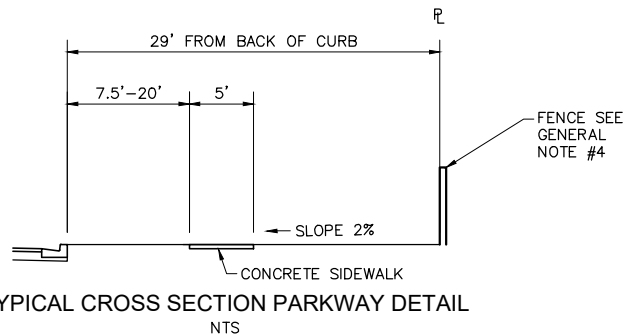
SPRINKLING SYSTEM

DRIP LINE SYSTEM SPECIFICATION AND LOCATIONS ARE TO BE APPROVED BY HIGHLAND CITY STAFF.



NOTE

1. THE PLAN SHOWN ASSUMES THE HOMES FRONT IS NOT ALONG THE SIDE STREET. SHOULD HOME FRONT SIDE STREET A FENCE IS NOT ALLOWED ON THE SIDE STREET PER CITY DEVELOPMENT CODE.



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HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

PARKWAY LANDSCAPE DETAIL

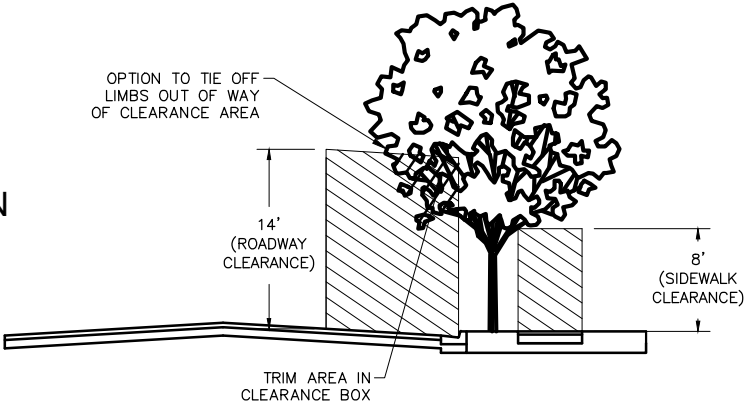
STD DWG #

ST-07

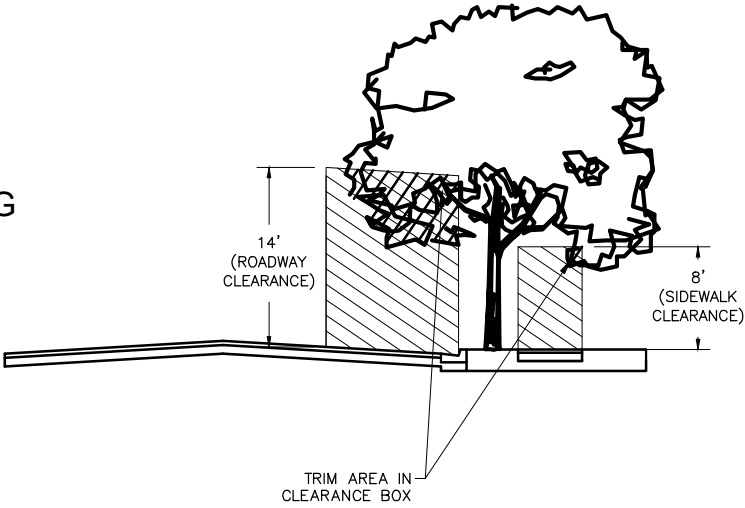
NO.	REVISION DESCRIPTION	BY	APR	DATE	LAST UPDATED: 12/7/2023

HIGHLAND CITY TREE TRIMMING GUIDE

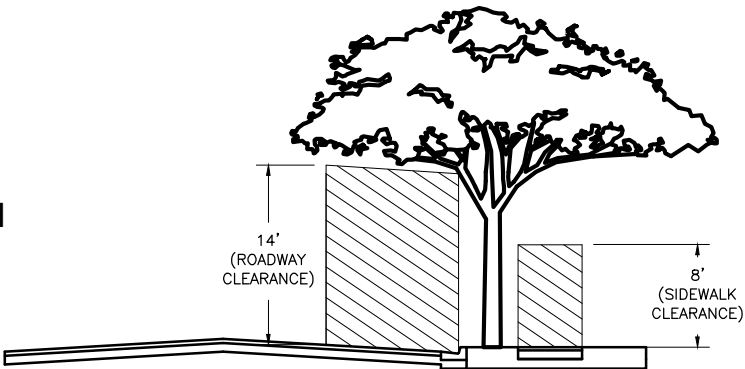
YOUNG TREE STILL IN
GROWTH CYCLE



REQUIRES TRIMMING
AT FULL GROWTH



TRIMMED TREE
AT FULL GROWTH



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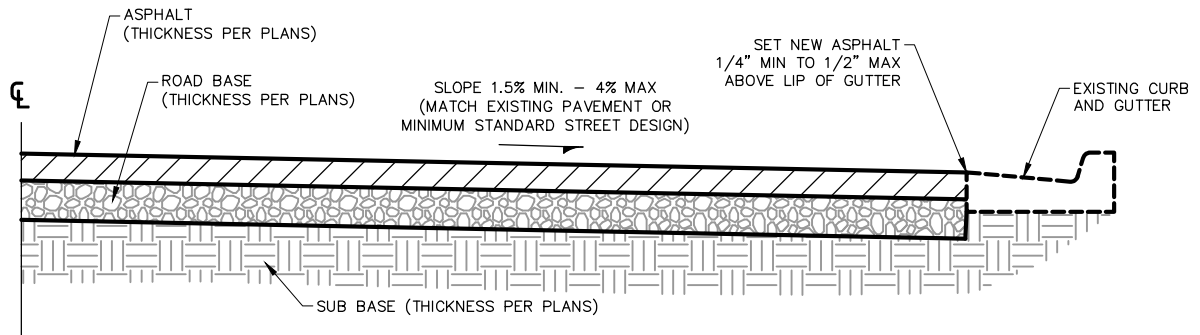


HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

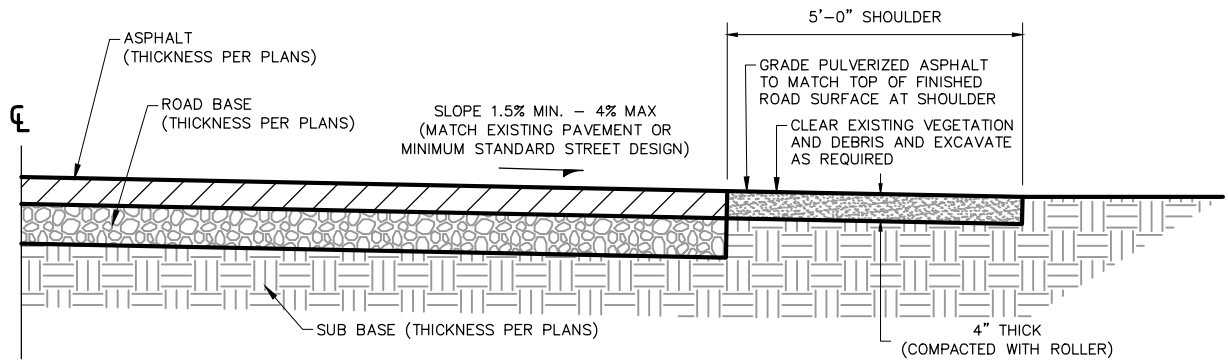
TREE TRIMMING DETAIL

STD DWG #

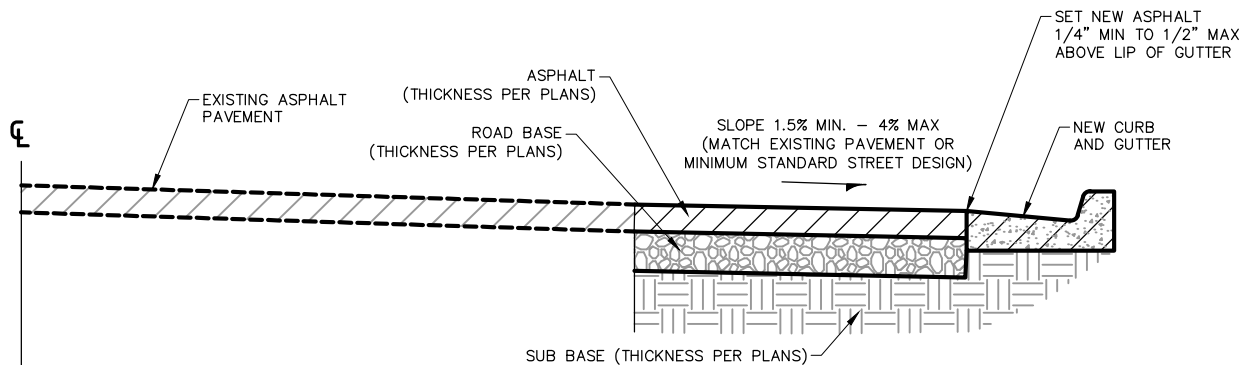
ST-09



AREAS WITH EXISTING CURB AND GUTTER



AREAS WITH NO CURB AND GUTTER



AREAS WITH NEW CURB AND GUTTER

NOTES:

1. MINIMUM ASPHALT PAVING WIDTH SHALL BE 2'.
2. WHEN PAVING WIDTH IS LESS THAN 9', WIDENING OF EXISTING ROADWAYS SHALL INCLUDE THE GREATER OF THE 1" MORE THAN THE MINIMUM THICKNESS SHOWN IN TABLE 2.1 OF SECTION 2.05.H CITY DESIGN CRITERIA FOR MINIMUM STREET CROSS SECTION OR 1" MORE THAN THE EXISTING ROAD ASPHALT THICKNESS.
3. FOR PAVING WIDTHS GREATER THAN 9', THE ASPHALT THICKNESS MAY BE PER THE ABOVEMENTIONED TABLE.

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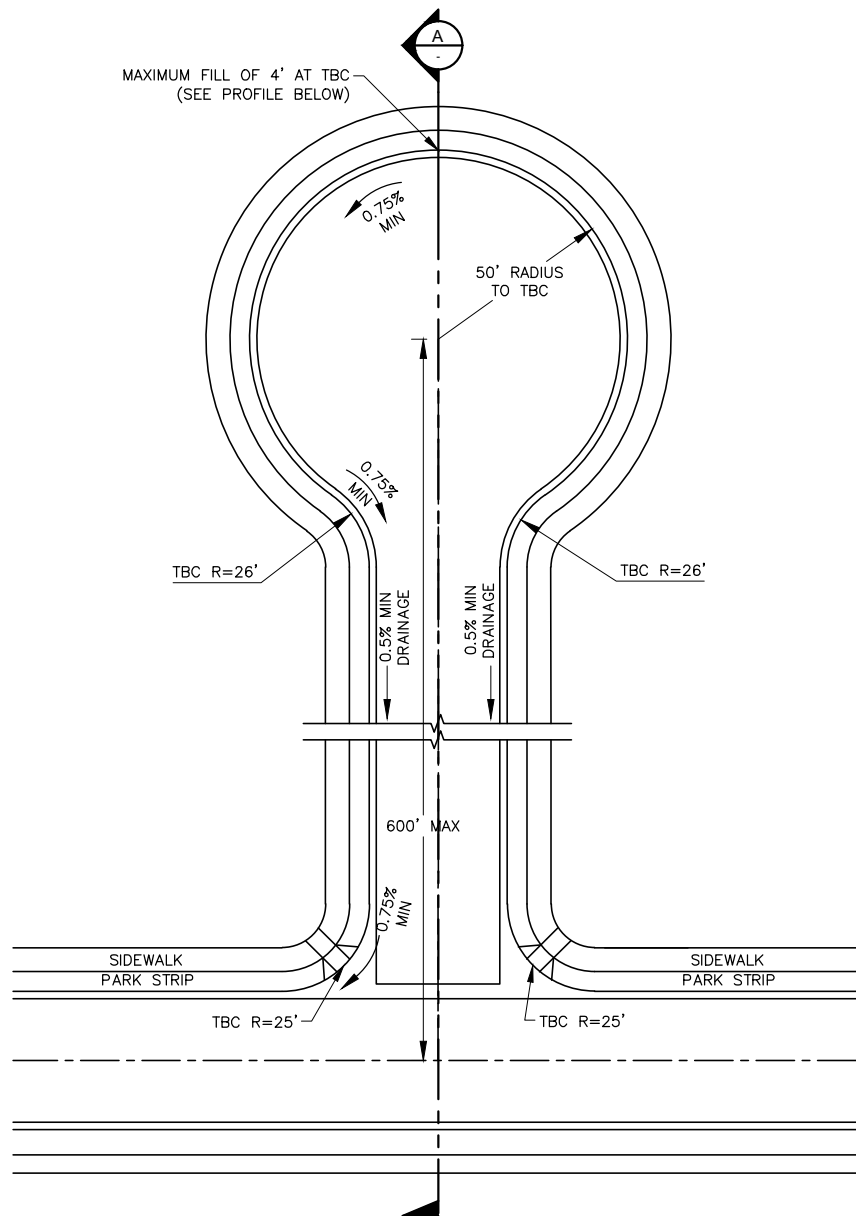
**HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING**

ASPHALT PAVEMENT TIE-IN

STD DWG #

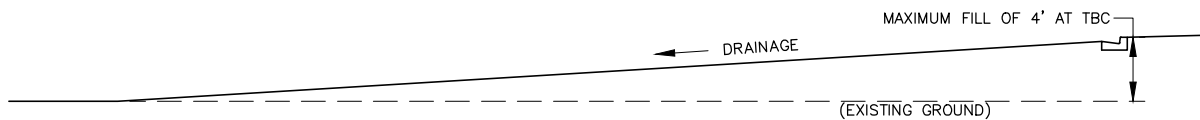
ST-10

NO.	REVISION DESCRIPTION	BY	APR	DATE	LAST UPDATED: 12/6/2023



PLAN VIEW

IF SLOPE OF CUL-DE-SAC CAN NOT BE PROVIDED TO THE STREET AS SHOWN, THEN ST-12 SHALL BE FOLLOWED



SECTION A

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BY: APR DATE: LAST UPDATED: 1/5/2024



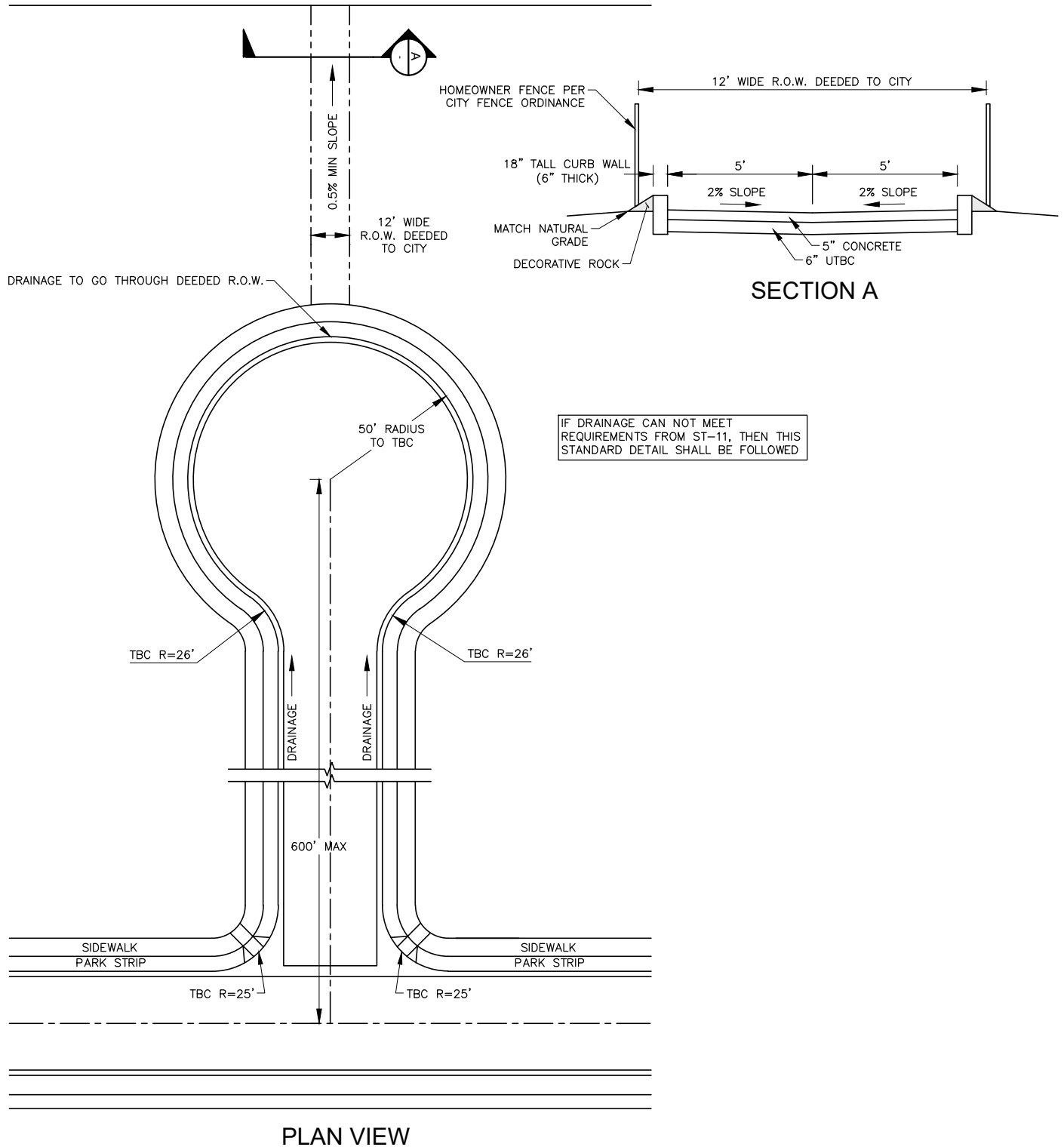
HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

CUL-DE-SAC (DRAINAGE TO STREET)

STD DWG #

ST-11

PUBLIC ROAD OR PUBLIC DRAINAGE FACILITY



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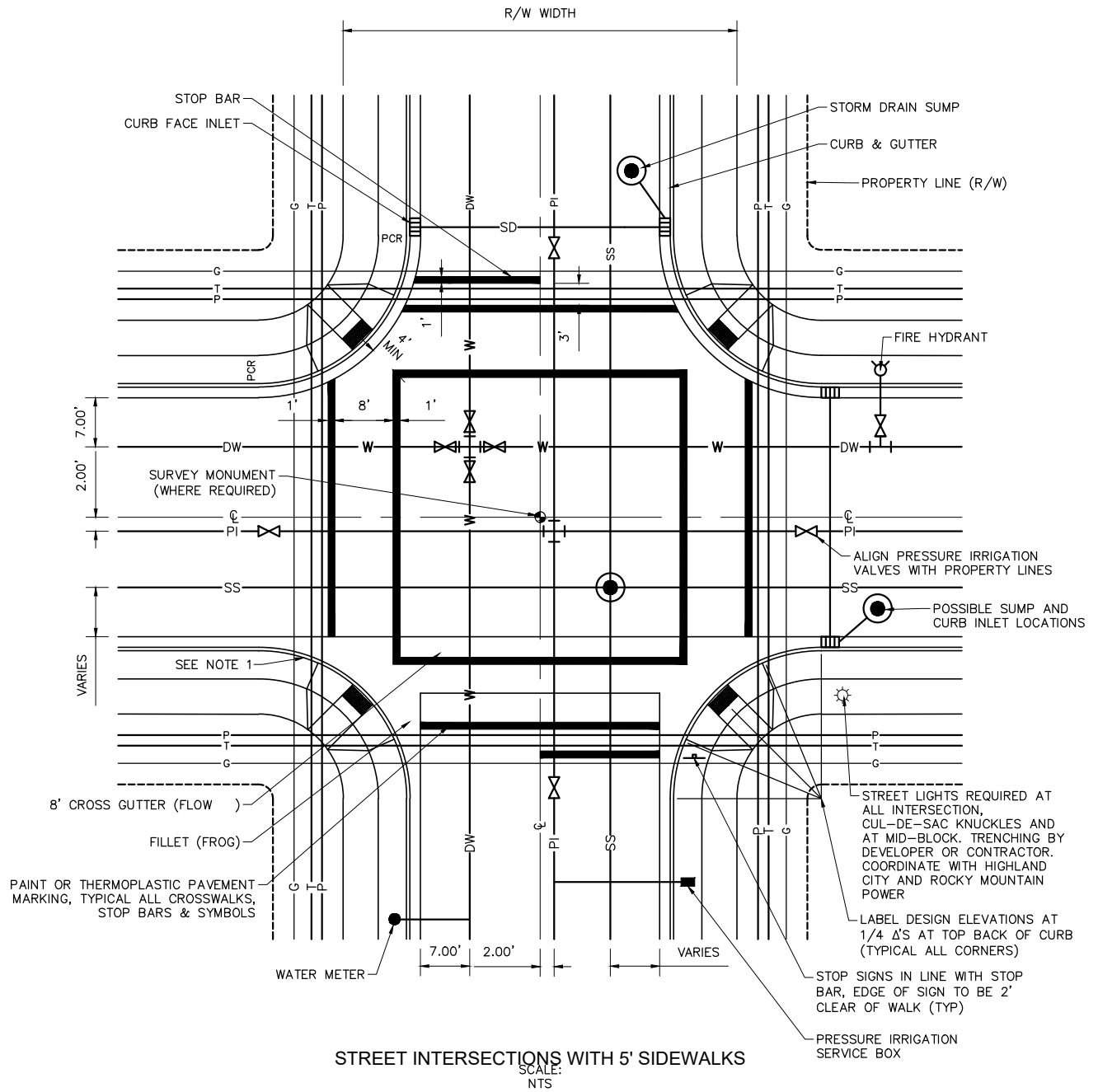


HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

CUL-DE-SAC (DRAINAGE THRU BACK LOT)

STD DWG #

ST-12



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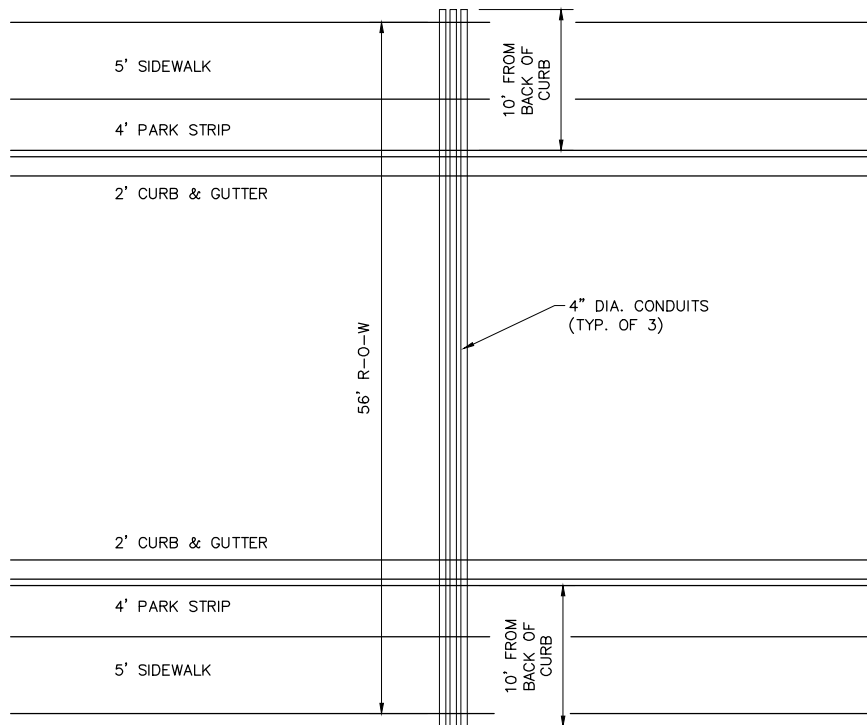


**HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING**

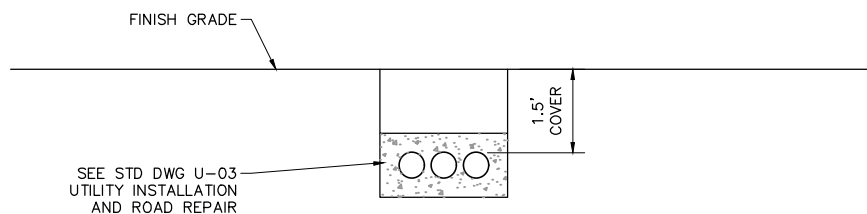
UTILITY LOCATIONS AT INTERSECTIONS

STD DWG #

U-01



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 SAND.
5. PULL WIRE REQUIRED.
6. CONDUIT SHALL BE INSTALLED ACROSS EACH LEG AT INTERSECTIONS, AT BULB OF CUL-DE-SAC, AND EVERY 300 FEET.
7. CONDUITS SHALL HAVE CURB STAMP DENOTED WITH A U.

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HIGHLAND CITY
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CONDUIT BANK DETAIL

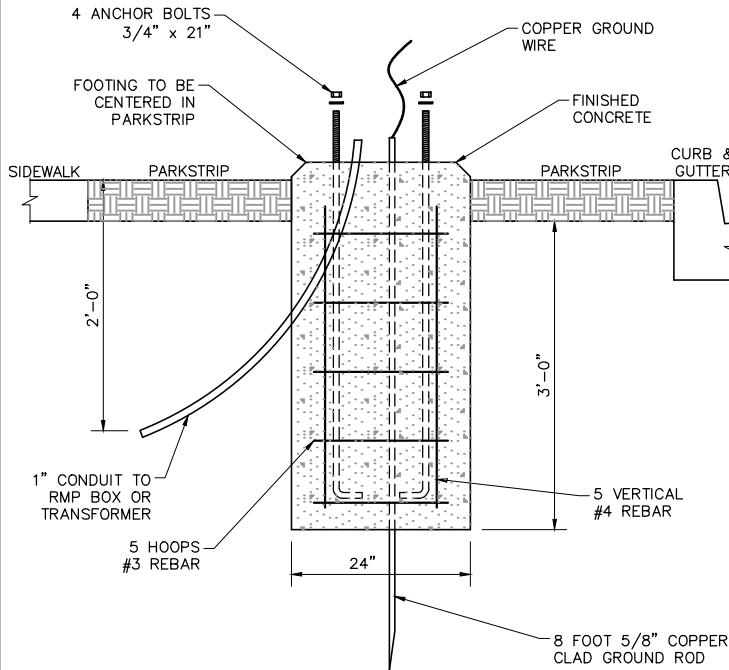
STD DWG #

U-02

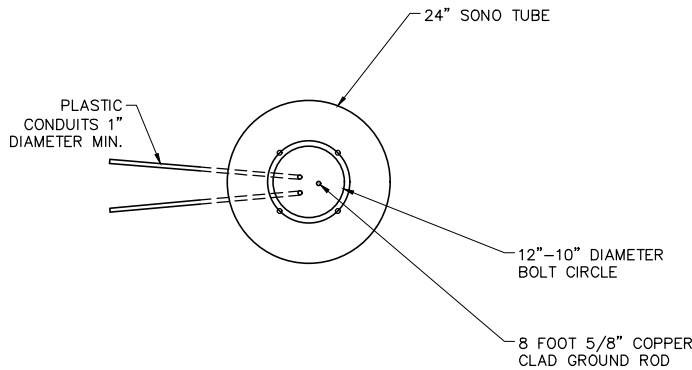
NO.	REVISION DESCRIPTION	BY	DATE	LAST UPDATED: 12/6/2023

NOTES:

1. ALL LIGHTS SHALL BE 120V. SEVEN (7) DAY BURN TEST IS REQUIRED.
2. WIRE NUT, 10-12, BLUE, WET LOCATION TYPE WITH SILICONE INSIDE.
3. GROUND CONNECTOR.
4. CONDUCTOR, 8"x $\frac{5}{8}$ " 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, 24" SONO TUBE FORM, TYPICALLY 2"-4" WIDER THAN BASE OF POLE, FILLED WITH READY MIX CONCRETE AND LEVELLED TO BASE OF POLE, WITH #4 REBAR RING IN MIDDLE DEPTH.
* MOW STRIP AROUND LIGHT POLES IS TO PROTECT AGAINST DAMAGE FROM EDGE TRIMMERS, 2" ABOVE TBC.
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. 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.



LIGHT POLE DETAIL
SCALE: NTS



- NOTE:
1. GROUND ROD AND PLASTIC CONDUITS MUST BE LOCATED WITHIN A 3" RADIUS FROM THE CENTER OF BOLT CIRCLE.
 2. ALL WIRES TO BE RUN IN 1" CONDUIT FROM LIGHT BASE TO POWER SOURCE.

PLAN VIEW
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.

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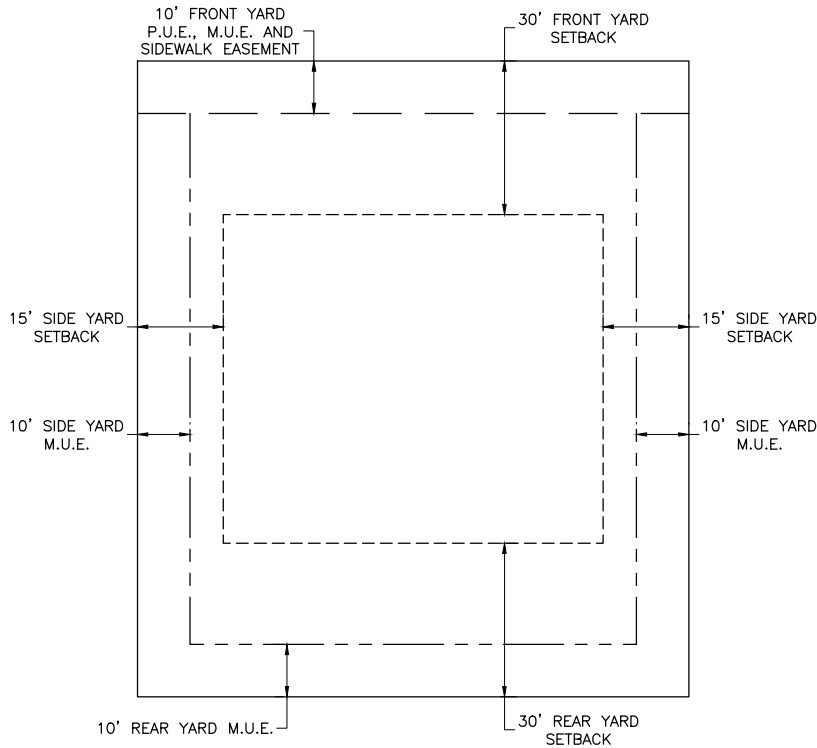
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STREET LIGHT BASE DETAIL

STD DWG #

U-03

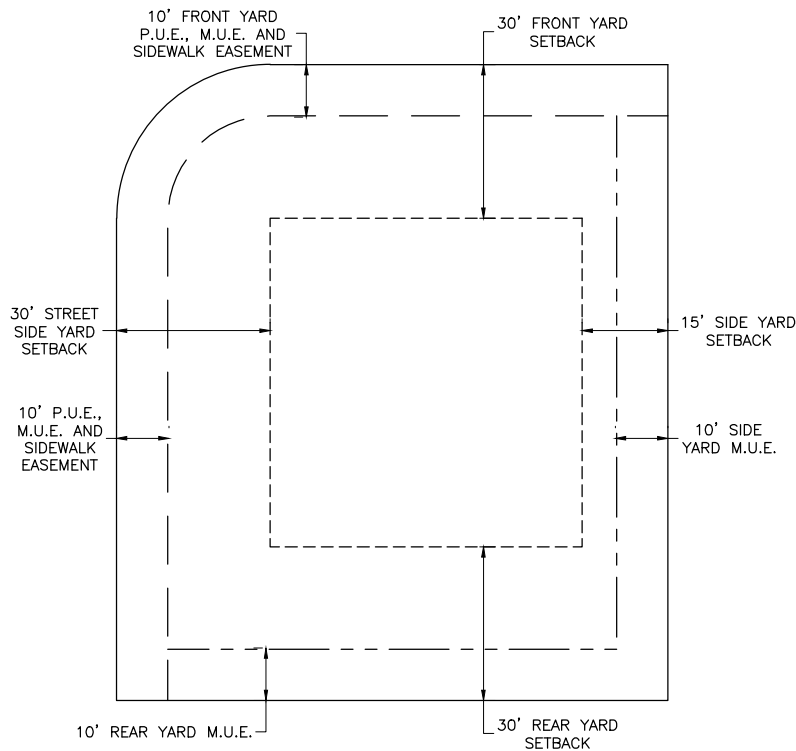
STREET



TYPICAL INTERIOR LOT

STREET

STREET



TYPICAL CORNER LOT

NOTES:

SAMPLE SETBACKS ARE SHOWN HEREON FOR THE R-1-40 ZONE. EACH ZONE HAS UNIQUE SETBACKS SPECIFIC TO THE ZONE. SURVEYOR SHALL INDICATE ON THE PLAT THE SETBACKS THAT ARE APPLICABLE TO THE ZONE IN WHICH THE PROPERTY LIES.

SUBDIVISION PLATS SHALL INCLUDE THE NOTES BELOW:

1. MUNICIPAL UTILITY EASEMENTS (M.U.E.) ARE DEDICATED TO HIGHLAND CITY AND INCLUDE PERMITTED USES AS PER UTAH CODE ANNOTATED 10-9A-103(40) AND HIGHLAND CITY DEVELOPMENT CODE.
2. THE PUBLIC UTILITY EASEMENT (P.U.E.), MUNICIPAL UTILITY EASEMENT (M.U.E.), AND SIDEWALK EASEMENT CORRIDOR AS HEREON SHOWN SHALL INCLUDE THE RIGHT OF UTILITY PLACEMENT IN CONFORMANCE WITH HIGHLAND CITY UTILITY FRANCHISE AGREEMENTS AND STATE OF UTAH CODE GOVERNING PUBLIC UTILITY EASEMENTS. HIGHLAND CITY IS GRANTED THE RIGHT FOR CONSTRUCTION, PLACEMENT, MAINTENANCE, REPLACEMENT, AND OTHER INCIDENTAL APPURTENANT PARTS THERETO FOR CITY UTILITY AND ACTIVE TRANSPORTATION FACILITIES INCLUDING STREET SIGNAGE, STREET LIGHTS, PLACEMENT OF SIDEWALKS AND OTHER FORMS OF ACTIVE TRANSPORTATION FACILITIES. EASEMENT RIGHTS DEFINED HEREON SHALL INCLUDE REASONABLE ACCESS TO THE GRANTOR'S PROPERTY FOR THE ALLOWABLE PURPOSES.
3. BUILDING SETBACKS SHOWN HEREON REPRESENT THE ZONING REGULATIONS AT THE TIME OF PLAT APPROVAL. BUILDING SETBACKS WILL BE ENFORCED BY CITY OFFICIALS AS PER THE CITY ORDINANCES AND CODES IN PLACE AT THE TIME OF BUILDING PERMIT ISSUANCE.

LEGEND:

P.U.E. - PUBLIC UTILITY EASEMENT
M.U.E. - MUNICIPAL UTILITY EASEMENT

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EASEMENT AND SETBACK DETAIL

STD DWG #

U-04

NO.	REVISION DESCRIPTION	BY	APR	DATE	LAST UPDATED: 12/7/2023

SPECIFICATIONS

LUMINAIRE DESCRIPTION

The Utility Arlington is designed for ease of maintenance with the plug-in electrical module. A precision optical system maximizes post spacings while maintaining uniform illumination. The luminaire shall be catalog number ARUE3 P10 30K MVOLT GL3 RAL6007SDCR BL PR3 PCLL L20

OPTICAL SYSTEM The optical system consists of a precisely molded refractor operating in conjunction with a formed anodized aluminum reflector located in the top cover. Positive pressure from three coiled springs backing the reflector and gaskets at the top and bottom of the refractor create a sealed optical compartment. The molded thermal resistant, borosilicate glass refractor is designed to provide an I.E.S. Type III distribution.

LUMINAIRE HOUSING The luminaire housing, cast of aluminum, cradles the refractor and provides an enclosure for the plug in electrical module. The nickel plated lamp grip socket and the three station incoming line terminal block are pre-wired to a five conductor receptacle for ease in connecting the electrical module. A slipfitter will accept a 3" high by 2 7/8" to 3 1/8" O.D. pole tenon.

LUMINAIRE HOUSING / DOOR Cast of aluminum, the housing / door is removable without the use of tools and is retained by a nonconductive lanyard. For units with an E.E.I.-N.E.M.A. twist lock photocell receptacle, the door contains an acrylic "window" to allow light to reach the cell.

ELECTRICAL MODULE The ballast components are mounted on a steel plate that is removable without the use of tools. A matching five conductor plug connects to the receptacle in the luminaire housing to complete the wiring. Where a starting aid is required, it is provided with a separate plug-in connector and can be replaced without the use of tools. For photoelectric operation, the electrical module is provided with an E.E.I.-N.E.M.A. twist lock photocell receptacle. The luminaire shall be prewired with 20' #10 wire.

TOP COVER The octagonal cover, cast of aluminum, is attached to the top ring of the luminaire housing by a stainless steel piano hinge and latched by an overcenter, positive action, stainless steel latch which allows tool-less entry to the lamp chamber for relamping. A special cast aluminum ball finial shall be installed onto the top cover.

BALLASTS 70 watt MH units are available only with High Power Factor High Reactance type ballasts.

FINISH The luminaire is finished with polyester powder paint applied after a seven stage pretreatment process to insure maximum durability.

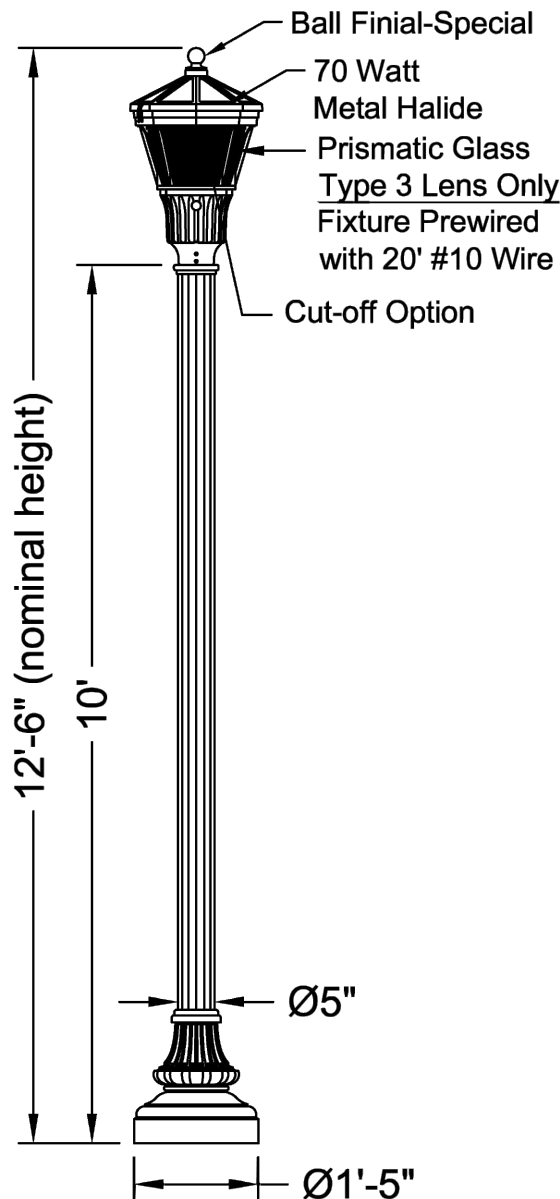
UL The luminaire is UL listed as suitable for wet locations at a maximum of 40 degrees C ambient temperature.

POST DESCRIPTION The lighting post shall be all aluminum, one-piece construction, with a classic double-tapered and fluted base design. The shaft shall be Ø5" fluted. The post shall be catalog number W10F5/17-CA/RAL6007.

MATERIALS The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be completely hot dip galvanized.

CONSTRUCTION The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-90. **DIMENSIONS** The post shall be 10' in height with a 17" diameter base. The shaft diameter shall be 5". At the top of the post, an integral 3" O.D. tenon with a transitional donut shall be provided for luminaire mounting. **INSTALLATION** The post shall be provided with four, hot dip galvanized

L-type anchor bolts to be installed on a slotted 12" diameter bolt circle. A door shall be provided inside the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite door.



**FIXTURE AND POLE TO MEET
PACIFICORP STANDARD**

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SINGLE STREET LIGHT DETAIL

STD DWG #

U-05

NO. REVISION DESCRIPTION BY APR. DATE LAST UPDATED: 12/8/2023

SPECIFICATIONS

ARM DESCRIPTION The crossarms shall be one-piece construction. The arms shall be welded to a center spool. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per ANSI/AWS D1.2-90 Section 5. The crossarm shall be catalog number ACA/2-CA/RAL6007.

MATERIALS The arms, finials, and center spool tenons, shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The center spool shall be aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be stainless steel. All exterior hardware shall be tamper resistant.

INSTALLATION The crossarms shall slip-fit a post top tenon and attach with socket set screws. The center finial shall be removable. Crossarms shall have 3" O.D. tenons for luminaire mounting.

LUMINAIRE DESCRIPTION

The Utility Arlington is designed for ease of maintenance with the plug-in electrical module. A precision optical system maximizes post spacings while maintaining uniform illumination. The luminaire shall be catalog number

ARUE3 P10 30K MVOLT GL3 RAL6007SDCR BL PR3 PCLL L20

OPTICAL SYSTEM The optical system consists of a precisely molded refractor operating in conjunction with a formed anodized aluminum reflector located in the top cover. Positive pressure from three coiled springs backing the reflector and gaskets at the top and bottom of the refractor create a sealed optical compartment. The molded thermal resistant, borosilicate glass refractor is designed to provide an I.E.S. Type III distribution.

LUMINAIRE HOUSING The luminaire housing, cast of aluminum, cradles the refractor and provides an enclosure for the plug in electrical module. The nickel plated lamp grip socket and the three station incoming line terminal block are pre-wired to a five conductor receptacle for ease in connecting the electrical module. A slipfitter will accept a 3" high by 2 7/8" to 3 1/8" O.D. pole tenon.

LUMINAIRE HOUSING / DOOR Cast of aluminum, the housing / door is removable without the use of tools and is retained by a nonconductive lanyard. For units with an E.E.I.-N.E.M.A. twist lock photocell receptacle, the door contains an acrylic "window" to allow light to reach the cell.

ELECTRICAL MODULE The ballast components are mounted on a steel plate that is removable without the use of tools. A matching five conductor plug connects to the receptacle in the luminaire housing to complete the wiring. Where a starting aid is required, it is provided with a separate plug-in connector and can be replaced without the use of tools. For photoelectric operation, the electrical module is provided with an E.E.I.-N.E.M.A. twist lock photocell receptacle. The luminaire shall be prewired with 20' #10 wire.

TOP COVER The octagonal cover, cast of aluminum, is attached to the top ring of the luminaire housing by a stainless steel piano hinge and latched by an overcenter, positive action, stainless steel latch which allows tool-less entry to the lamp chamber for relamping. A special cast aluminum ball finial shall be installed onto the top cover.

BALLASTS 70 watt MH units are available only with High Power Factor High Reactance type ballasts.

FINISH The luminaire is finished with polyester powder paint applied after a seven stage pretreatment process to insure maximum durability.

UL The luminaire is UL listed as suitable for wet locations at a maximum of 40 degrees C ambient temperature.

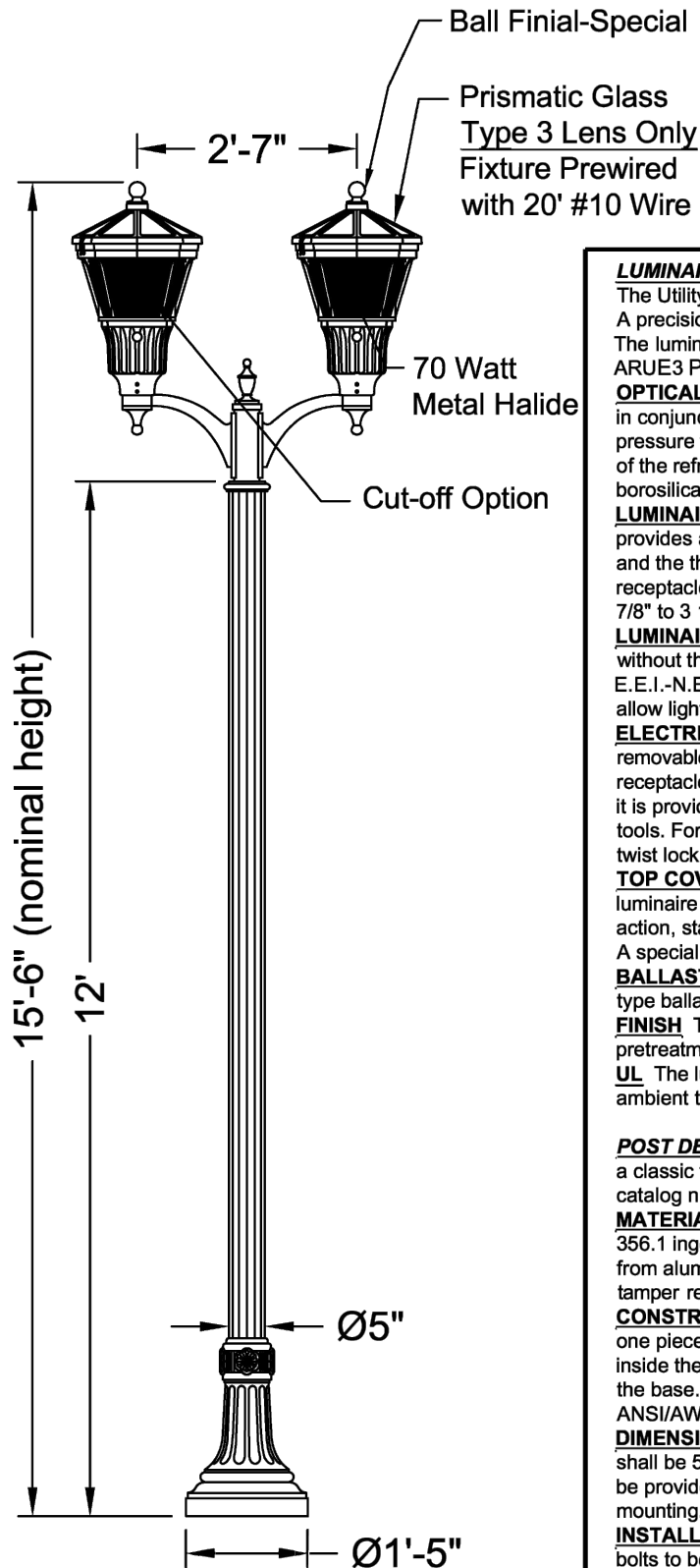
POST DESCRIPTION The lighting post shall be all aluminum, one-piece construction, with a classic tapered and fluted base design. The shaft shall be Ø5" fluted. The post shall be catalog number NY12F5/17-CA/RAL6007.

MATERIALS The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be completely hot dip galvanized.

CONSTRUCTION The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-90.

DIMENSIONS The post shall be 14' in height with a 17" diameter base. The shaft diameter shall be 5". At the top of the post, an integral 3" O.D. tenon with a transitional donut shall be provided for luminaire mounting.

INSTALLATION The post shall be provided with four, hot dip galvanized L-type anchor bolts to be installed on a 12" diameter bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.



**FIXTURE AND POLE TO MEET
PACIFICORP STANDARD**

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PUBLIC WORKS AND ENGINEERING

DOUBLE STREET LIGHT DETAIL

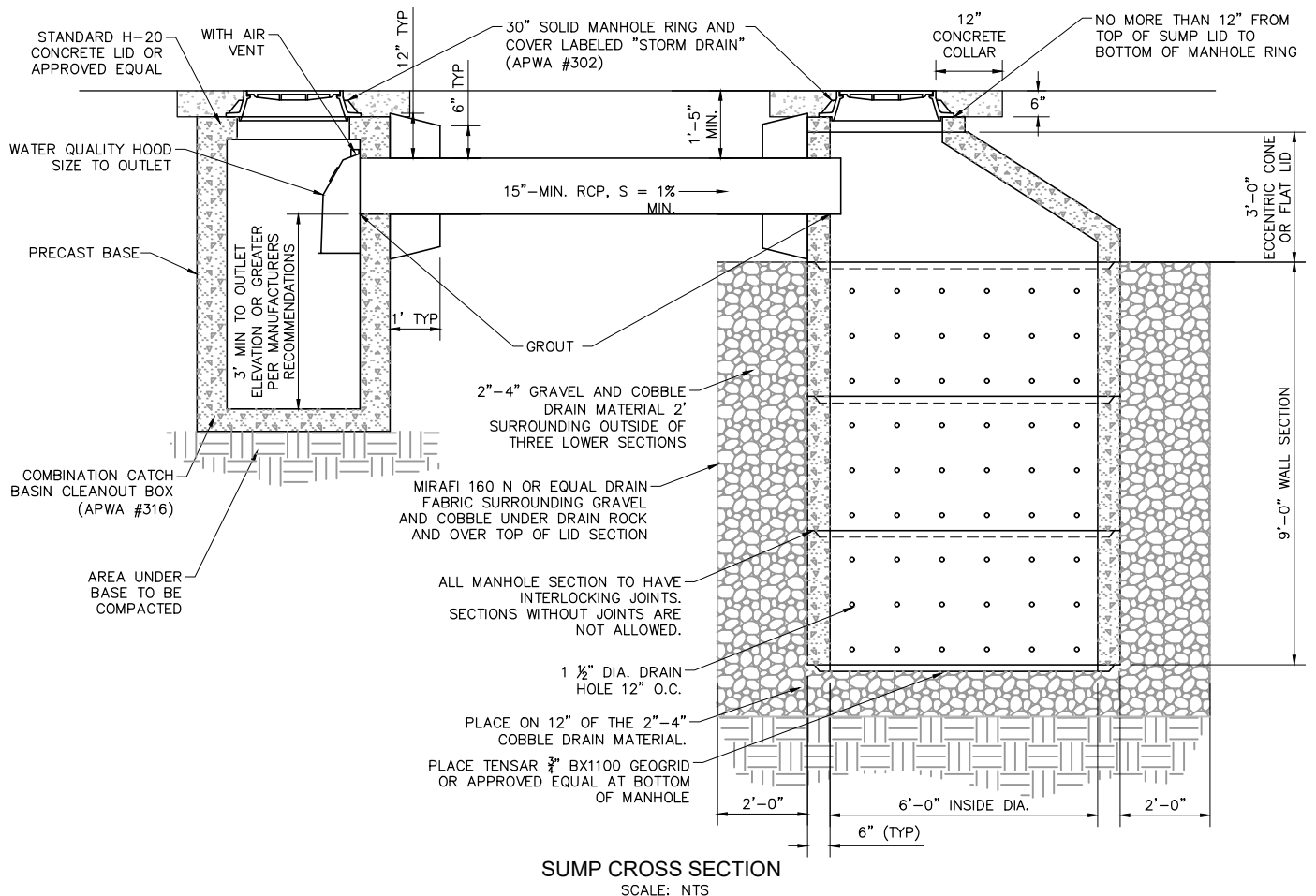
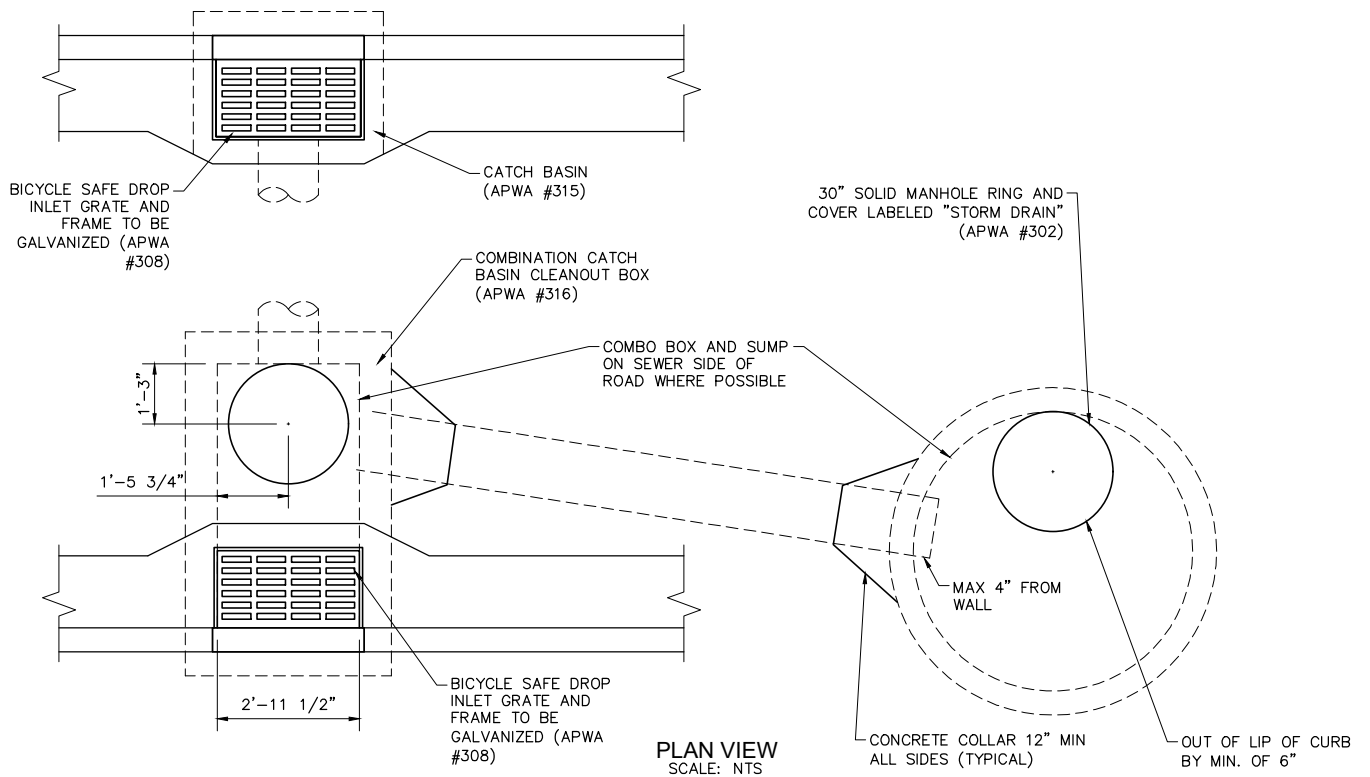
STD DWG #

U-06

NO. REVISION DESCRIPTION BY APR. DATE LAST UPDATED: 12/8/2023

STORM DRAIN NOTES:

- 1. MANHOLE LIDS SHALL BE MARKED STORM DRAIN.
- 2. SNOUTS ARE REQUIRED IN INLETS FOR PRE-TREATMENT.
- 3. PROVIDE PROPER FACILITIES FOR LOWERING PIPE SECTIONS INTO THE TRENCH. DROPPING PIPE WILL NOT BE PERMITTED.



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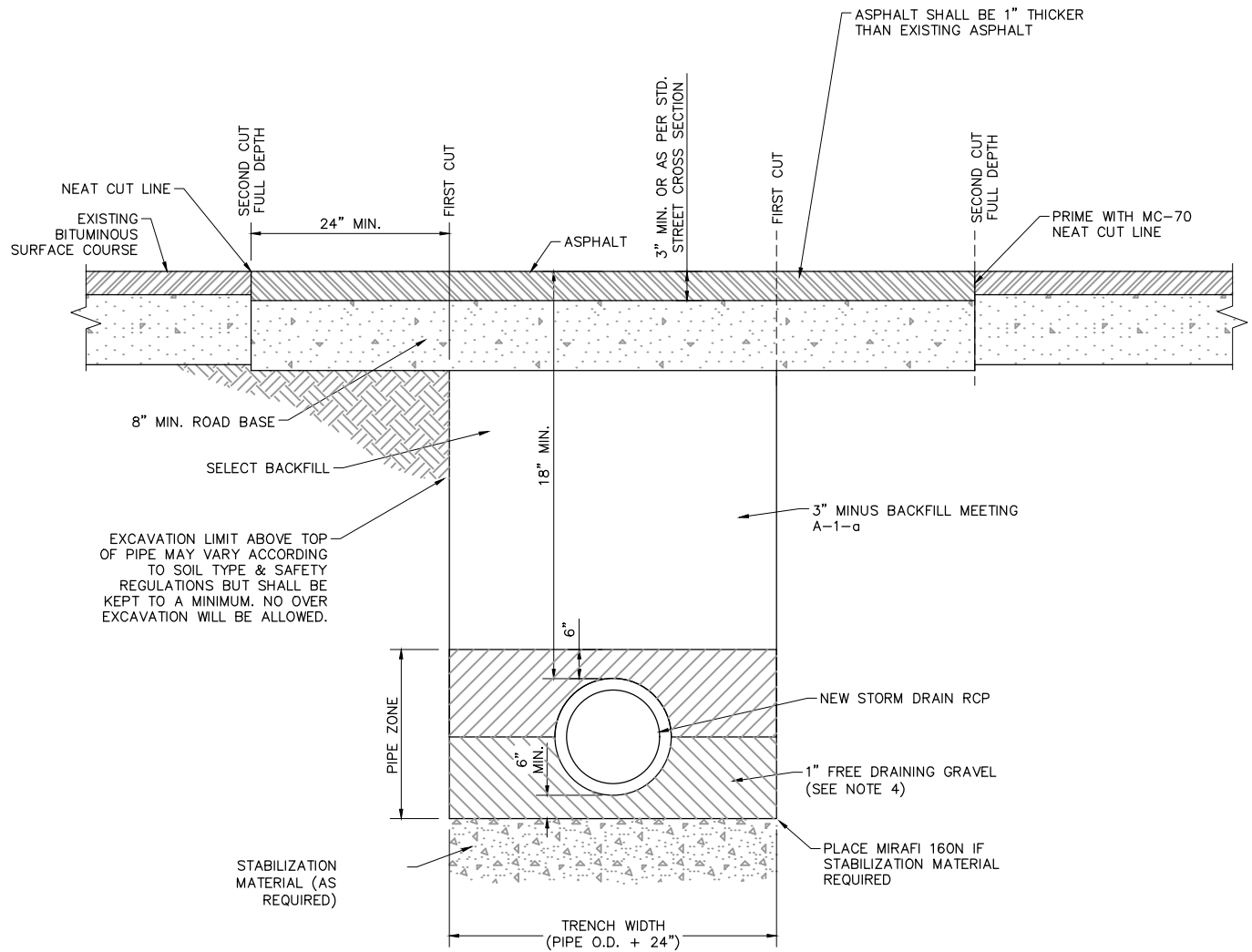


HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

STORM DRAIN AND SUMP DETAIL

STD DWG #

SD-01



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. SEE APWA FOR PERFORMANCE GRADED ASPHALT.
4. PIPE ZONE TO BE 1" FREE DRAINING GRAVEL WITH THE FOLLOWING GRADATION:

1 1/2 INCH SIEVE	100 PERCENT PASSING
1 INCH SIEVE	95 TO 100 PERCENT PASSING
1/2 INCH SIEVE	25 TO 60 PERCENT PASSING
NO. 4 SIEVE	0 TO 10 PERCENT PASSING
NO. 200 SIEVE	0 TO 2 PERCENT PASSING

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HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

STORM DRAIN TRENCH CROSS SECTION

STD DWG #

SD-02

NO.	REVISION DESCRIPTION	BY	DATE	LAST UPDATED: 12/6/2023

SANITARY SEWER NOTES:

1. CONTRACTOR TO COMPLY WITH STATE OF UTAH ADMIN CODE R317-3-2 SEWERS. SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.
2. SANITARY SEWER CUT SHEETS SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL BY THE CITY ENGINEER PRIOR TO STARTING ON THE SEWER.
3. AN APPROVED STAMPED COPY SHALL BE ON-SITE DURING CONSTRUCTION.
4. TIMPANOGOS SPECIAL SERVICE DISTRICT (TSSD) REQUIRES AN APPLICATION AND APPROVAL FOR CONNECTION TO THEIR SEWER LINES – AN APPLICATION SUBMITTED BY HIGHLAND CITY.
5. IDENTIFICATION OF SEWER LINES – A CLEARLY LABELED TRACER LOCATION TAPE SHALL BE PLACED TWO (2) FEET ABOVE THE TOP OF SEWER LINES LESS THAN OR EQUAL TO TWENTY-FOUR (24) INCHES IN DIAMETER, ALONG ITS ENTIRE LENGTH.
6. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPES. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE FOR AT LEAST THIRTY (30) DAYS.
7. NO PIPE SHALL SHOW A DEFLECTION IN EXCESS OF 5 PERCENT.
8. ALL SEWER LINES SHALL BE FLUSHED (FLUSHING BALL) AND TELEVIEWED AFTER THE FINAL ROAD BASE HAS BEEN INSTALLED AND GRADED, AND BEFORE THE PLACEMENT OF ASPHALT.
9. A COPY OF THE TELEVIEWED TEST ON DVD SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE PLACEMENT OF ASPHALT.
10. THE SEWER LATERAL RECORD SHEET SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT BEFORE THE RELEASE OF ANY SEWER BOND MONEY AND/OR BEFORE THE FINAL WARRANTY PERIOD CAN BEGIN.
11. PROVIDE PROPER FACILITIES FOR LOWERING PIPE SECTIONS INTO THE TRENCH. DROPPING PIPE WILL NOT BE PERMITTED.
12. THE PIPE SHALL BE PLUGGED AT THE END OF EACH WORK DAY, OR PERIOD OF WORK SUSPENSION.
13. LEAKAGE TESTS. PROCEDURES FOR LEAKAGE TESTS SHALL BE SPECIFIED. THIS MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING. THE LEAKAGE OUTWARD OR INWARD (EXFILTRATION OR INFILTRATION) SHALL NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET. THE AIR TEST, IF USED, SHALL, AS A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN THE AMERICAN SOCIETY OF TESTING MATERIALS STANDARDS. THE TESTING METHODS SELECTED SHOULD TAKE INTO CONSIDERATION THE RANGE IN GROUND WATER ELEVATIONS PROJECTED DURING THE TEST.

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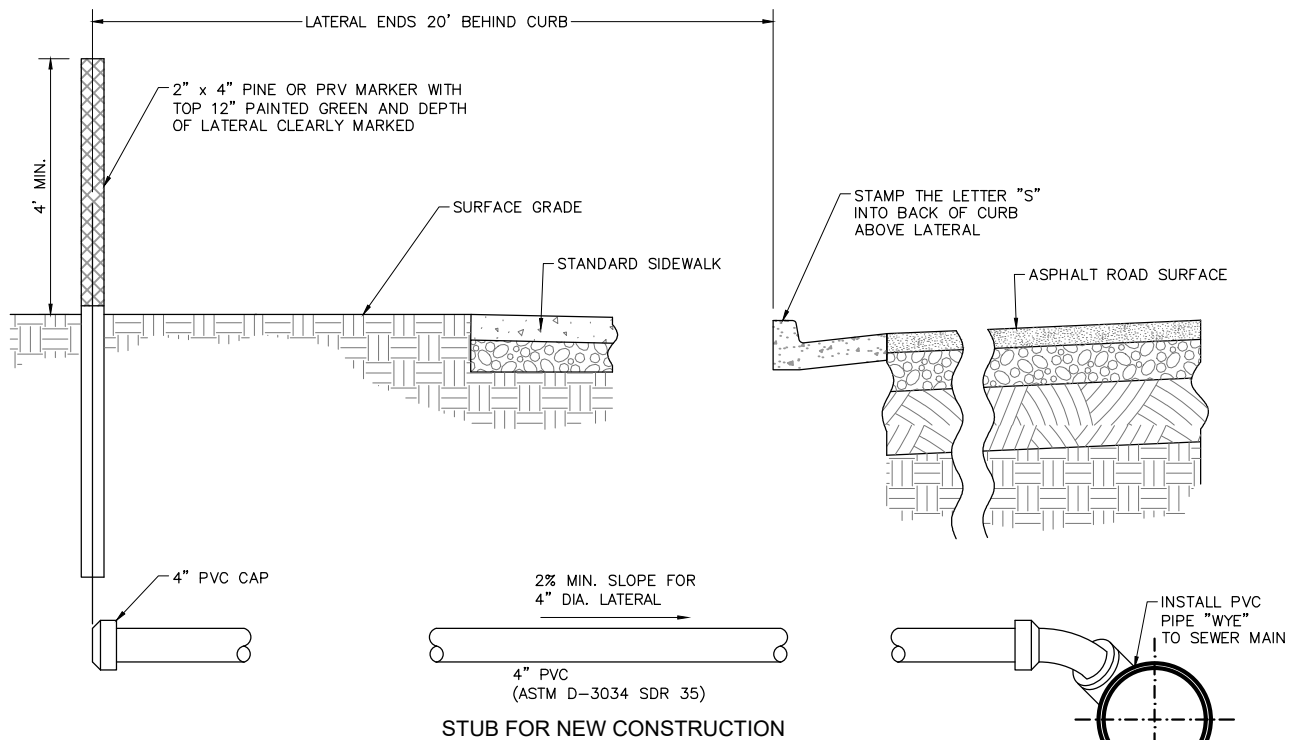


**HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING**

SANITARY SEWER NOTES

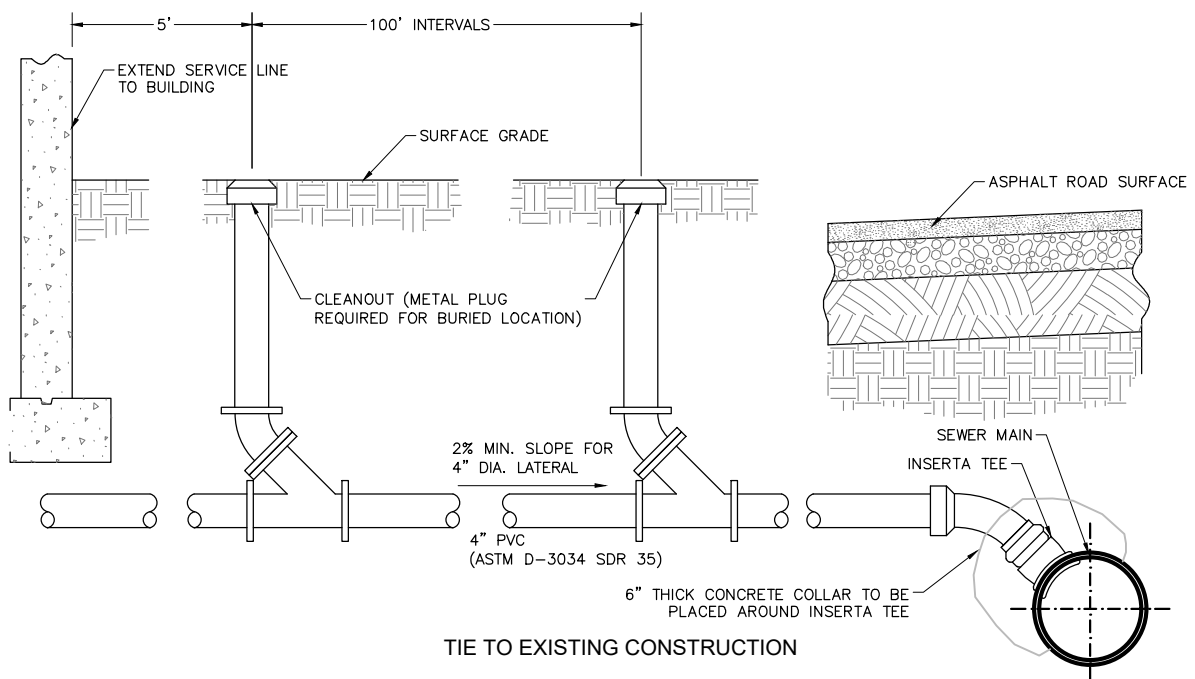
STD DWG #

SS-00



NOTES FOR CONNECTING TO NEW SEWER MAIN:

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 2 O'CLOCK OR 10 O'CLOCK POSITION.



NOTES FOR CONNECTING TO EXISTING SEWER MAIN:

1. CORE SEWER MAIN AND INSTALL INSERTA TEE FITTING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
2. CONNECTION TO BE MADE IN PRESENCE OF PUBLIC WORKS INSPECTOR.

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HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

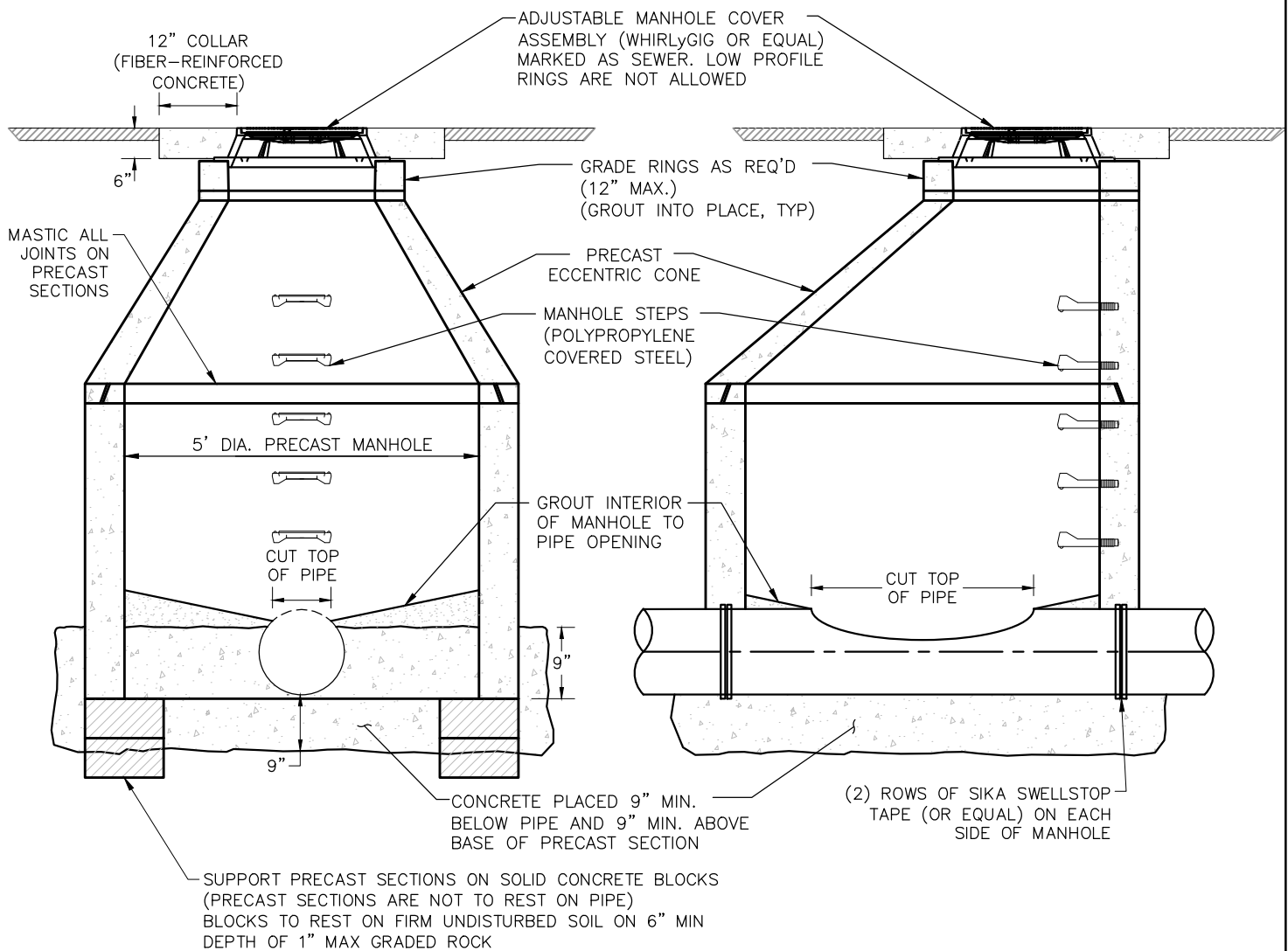
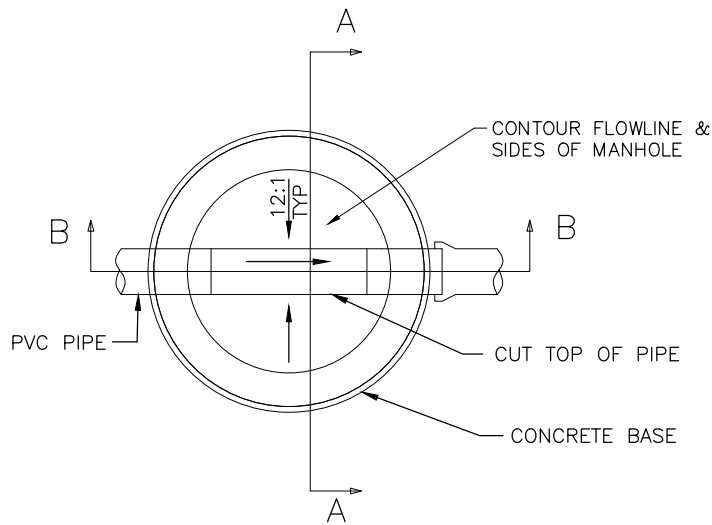
SEWER LATERAL DETAIL

STD DWG #

SS-01

NO. REVISION DESCRIPTION BY APR. DATE LAST UPDATED: 12/6/2023

NO.	REVISION DESCRIPTION	BY	APR.	DATE	LAST UPDATED: 12/7/2023
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SECTION A-A

SECTION B-B

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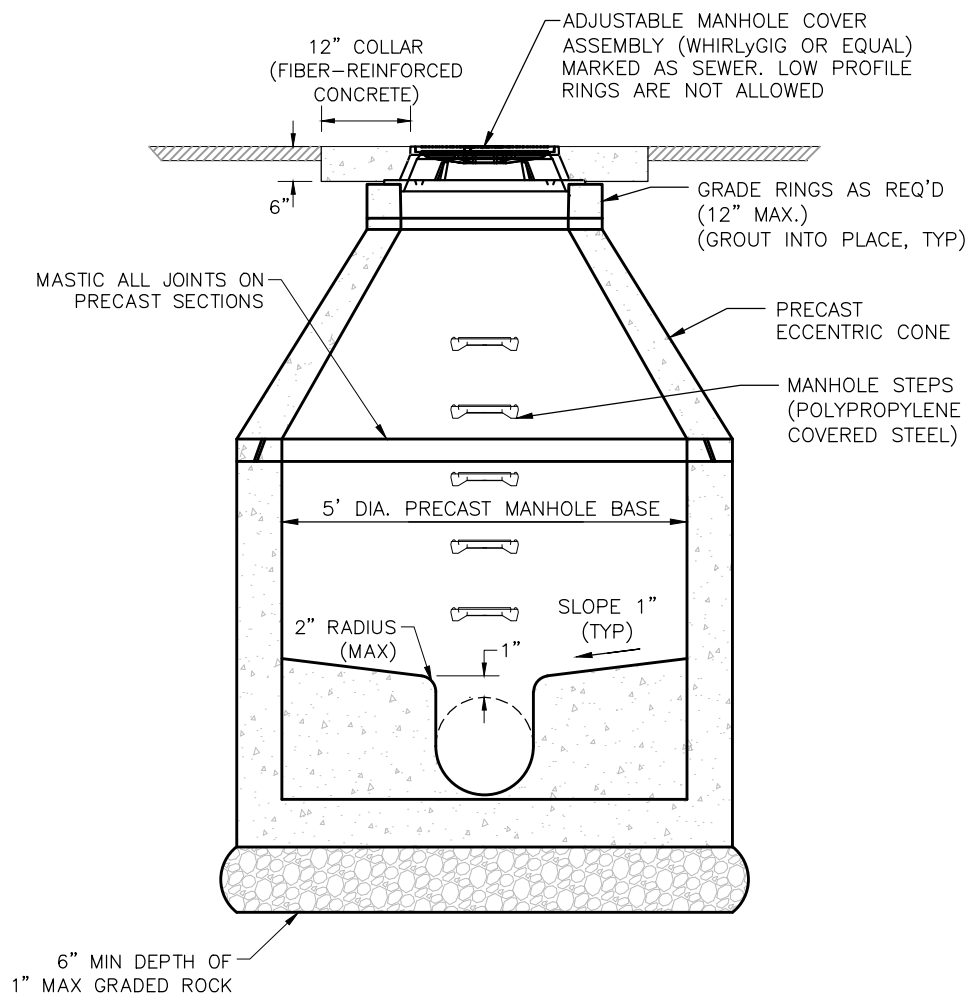
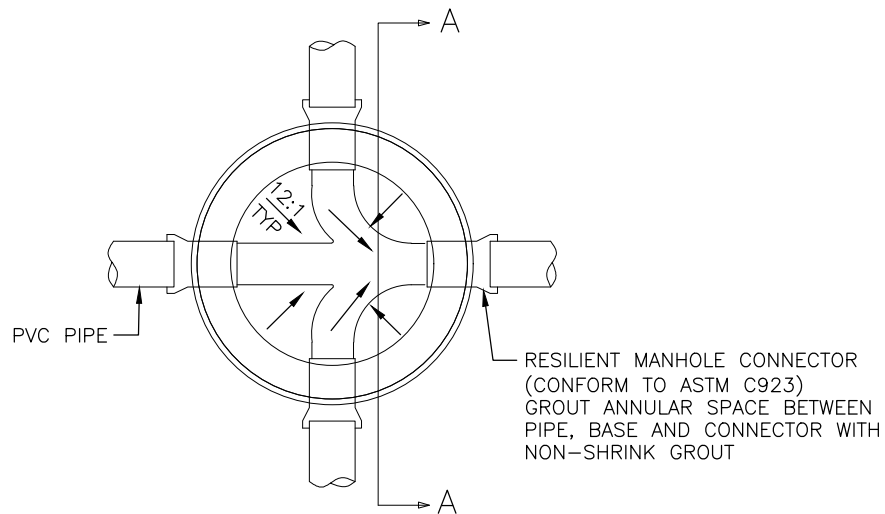


HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

CAST-IN-PLACE SEWER MANHOLE

STD DWG #

SS-03



SECTION A-A

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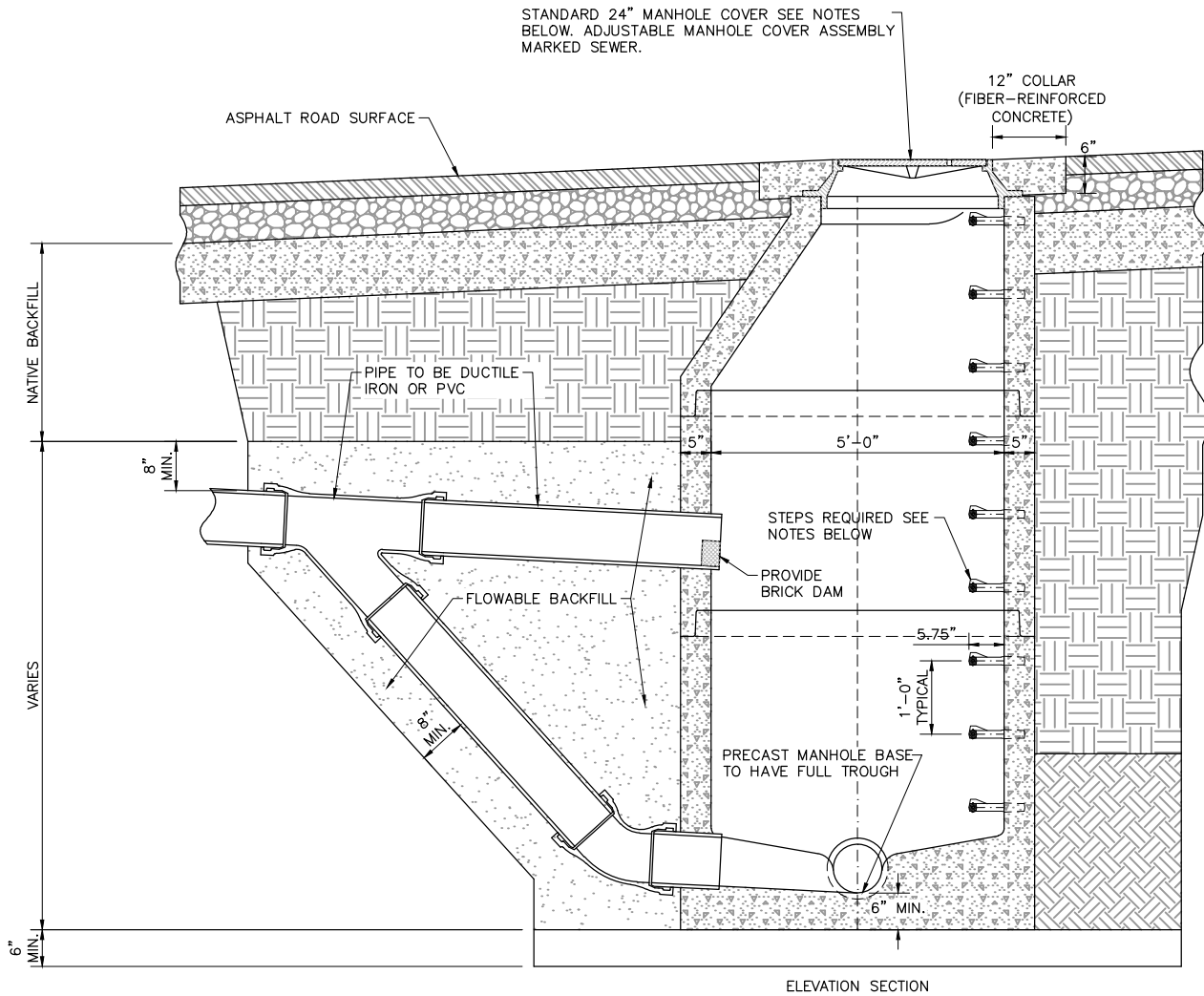
HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

PRECAST SEWER MANHOLE

STD DWG #

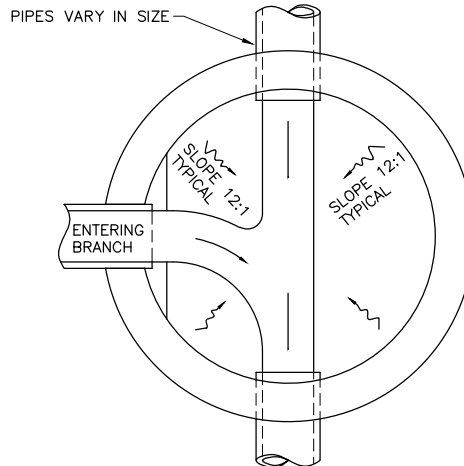
SS-04

NO.	REVISION DESCRIPTION	BY	APPR	DATE	LAST UPDATED: 12/8/2023



NOTE:

1. 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.
2. MANHOLE COVER TO CONTAIN ONE PICK HOLE. SEE SPECIFICATION DIVISION 5 FOR COVER LABEL. D&L SUPPLY P/N A-1180 (OR EQUAL)
3. STEPS SHALL BE MADE OF COPOLYMER POLYPROPYLENE CONFORMING TO ASTM D-4101 REINFORCING STEEL TO BE DEFORMED 1/2" DIAMETER GRADE 60 ROD.
4. FLAT LIDS MAY BE USED IN LIEU OF ECCENTRIC CONES WHERE NECESSARY. FLAT LIDS SHALL BE OF ECCENTRIC DESIGN AND MEET H20 LIVE LOADING. NO FLAT RING AND COVERS WILL BE ALLOWED UNLESS APPROVED BY PUBLIC WORKS.
5. USE FERNCO COUPLING TO TRANSITION TO CONCRETE OR PVC PIPE AS APPROPRIATE.



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HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

SEWER DROP MANHOLE DETAIL

STD DWG #

SS-05

DRINKING WATER NOTES:

1. ALL SURFACES, COATINGS, PIPES, FITTINGS, PROTECTIVE MATERIALS, SEALING MATERIALS AND MECHANICAL DEVICES THAT MAY COME INTO CONTACT WITH DRINKING WATER SHALL COMPLY WITH ANSI/NSF STANDARD 61 OR OTHER STANDARDS APPROVED BY UTAH DIVISION OF DRINKING WATER.
2. IF ANY DISCREPANCIES EXIST BETWEEN HIGHLAND CITY STANDARDS OR SPECIFICATIONS AND THE UTAH DIVISION OF DRINKING WATER (DDW) RULES, THE DDW RULES SHALL TAKE PRECEDENCE.
3. CONTACT HIGHLAND CITY AT LEAST 72 HOURS IN ADVANCE OF ALL WATER SHUTDOWNS.
4. CONTRACTOR SHALL POT HOLE UTILITIES AT ALL CROSSINGS SUFFICIENTLY IN ADVANCE OF LAYING PIPE TO ALLOW FOR ADJUSTMENTS OF NEW PIPELINE GRADE TO AVOID CONFLICTS.
5. CONTRACTOR TO PROVIDE TEMPORARY BLOW OFF VALVES, HYDRANT & FITTINGS TO FLUSH NEW PIPELINES. PROVIDE PLAN TO CITY FOR APPROVAL BEFORE BEGINNING FLUSHING.
6. DEFLECTIONS IN PIPE JOINTS SHALL NOT EXCEED 5 DEGREES FOR DUCTILE IRON PIPE, 1 DEGREE FOR PVC PIPE OR MANUFACTURER'S PUBLISHED DEFLECTIONS.
7. PROVIDE CONCRETE THRUST BLOCKS AND JOINT RESTRAINTS ON ALL BENDS, FITTINGS & VALVES, UNLESS SPECIFIED OTHERWISE. ALL FITTINGS THAT REQUIRE CONCRETE BLOCKING SHOULD BE COMPLETELY WRAPPED PRIOR TO THE POURING OF THE CONCRETE THRUSTING BLOCK.
8. ELEVATIONS OF EXISTING WATER LINES ARE UNKNOWN. CONTRACTOR SHALL POTHOLE EXISTING WATER LINES AT CONNECTIONS TO VERIFY LOCATION AND ELEVATION. MODIFICATIONS TO CONNECTION DETAILS MAY BE REQUIRED, BASED ON THE INFORMATION OBTAINED.
9. MAIN WATER LINES
 - A. THE SUBGRADE AND/OR SUB-BASE SHALL BE AT ITS FINAL DESIGN ELEVATION BEFORE THE INSTALLATION OF THE WATER MAINS.
 - B. ALIGNMENT AND ELEVATION (FROM TBC) STAKING SHALL BE PROVIDED EVERY TWENTY-FIVE (25) FEET BY A SURVEYOR LICENSED IN THE STATE OF UTAH PRIOR TO THE INSTALLATION OF THE WATER MAIN. ANY EXCEPTIONS MUST BE APPROVED IN WRITING BY THE CITY ENGINEER OR DESIGNEE.
 - C. PROVIDE PROPER FACILITIES FOR LOWERING PIPE SECTIONS INTO THE TRENCH. DROPPING PIPE WILL NOT BE PERMITTED.
 - D. THE PIPE SHALL BE PLUGGED AT THE END OF EACH WORK DAY, OR PERIOD OF WORK SUSPENSION.
 - E. CONTRACTOR TO COMPLY WITH STATE OF UTAH ADMIN CODE R317-3-2 SEWERS. DRINKING WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING SEWER. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.
10. VALVES
 - A. ALL VALVES SHALL BE FLANGED TO THE MAIN, INCLUDING FIRE HYDRANT BRANCH LINES.
 - B. VALVE BOXES AND COVERS SHALL BE PROPERLY ALIGNED AND FULLY SERVICEABLE.
 - C. VALVE STANDS SHALL BE CONCRETE COLLARED.
 - D. VALVE LIDS SHALL BE LABELED WATER.
11. THRUST BLOCKS
 - A. THE CAVITY OF THE THRUST BLOCK SHALL BE INSPECTED PRIOR TO THE PLACEMENT OF CONCRETE.
 - B. ENGINEERED THRUST BLOCKS, STAMPED BY A PROFESSIONAL ENGINEER, SHALL BE PROVIDED FOR NONTYPICAL CONDITIONS AND WHEN NOT BEARING AGAINST UNDISTURBED SOILS.
 - C. THE CITY INSPECTOR SHALL BE ON SITE FOR THE POUR OF THE THRUST BLOCK.
 - D. A CONCRETE WEIGH TICKET OR BATCH TICKET SHALL BE REQUIRED.
12. LOADING AND TESTING
 - A. WATER LINE LOADING SHALL BE DONE UNDER THE DIRECT SUPERVISION OF THE PUBLIC WORKS DEPARTMENT.
 - B. ALL WATER LINES MUST PASS A HYDROSTATIC PRESSURE TEST OF TWO HUNDRED (200) POUNDS PER SQUARE INCH (PSI), OR ONE-HUNDRED TWENTY-FIVE (125) PERCENT OF THE WORKING PRESSURE, WHICHEVER IS GREATER, FOR A PERIOD OF TWO (2) HOURS.
 - C. LEAKAGE AND PRESSURE TESTING MUST BE COMPLETED AFTER DISINFECTION PROCEDURES AND TESTING.
 - D. ALL DRINKING WATER PIPING SHALL BE DISINFECTED USING AN APPROVED DISINFECTION METHOD IN ACCORDANCE WITH THE "AMERICAN WATER WORKS ASSOCIATION STANDARD FOR DISINFECTING WATER MAINS" (AWWA C651). DISINFECTING MATERIALS SHALL CONSIST OF LIQUID CHLORINE, SODIUM HYPOCHLORITE SOLUTION, OR CALCIUM HYPOCHLORITE GRANULES OR TABLETS.
 - E. HEAVILY CHLORINATED WATER SHALL NOT BE DISCHARGED ONTO THE GROUND. UPON COMPLETION OF DISINFECTION, SODIUM BISULFATE (NAHSO3) SHALL BE APPLIED TO THE HEAVILY CHLORINATED WATER TO NEUTRALIZE THOROUGHLY THE CHLORINE RESIDUAL REMAINING. WATER SHALL BE NEUTRALIZED TO LESS THAN 1 PPM TOTAL CHLORINE RESIDUAL.
 - F. AFTER APPROVAL OF DISINFECTION, CONTRACTOR SHALL FLUSH THE NEW SYSTEM AND MAINTAIN A FLOW OF 2.5 FPS UNTIL THE CHLORINE RESIDUAL IS A MAXIMUM OF 0.3 PPM UNDER THE DIRECT SUPERVISION OF THE PUBLIC WORKS DEPARTMENT.
 - G. ONE WEEK AFTER FINAL FLUSHING AND BEFORE CONNECTING TO THE DISTRIBUTION SYSTEM, TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES, TAKEN AT LEAST 24 HOURS APART, SHALL BE COLLECTED FROM THE PIPELINE EVERY 1200 FEET, MINIMUM, OR AT EACH FIRE HYDRANT. ALL SAMPLES SHALL BE TESTED FOR BACTERIOLOGICAL (CHEMICAL AND PHYSICAL) QUALITY IN ACCORDANCE WITH "STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER" AND SHALL SHOW THE ABSENCE OF COLIFORM ORGANISMS. IF THE INITIAL DISINFECTION FAILS TO PROVIDE SATISFACTORY BACTERIOLOGICAL RESULTS, OR SHOWS THE PRESENCE OF COLIFORM, THEN THE LINE SHALL BE RE-CHLORINATED, FLUSHED, AND RE-TESTED UNTIL SATISFACTORY RESULTS ARE OBTAINED AT THE EXPENSE OF THE CONTRACTOR.
13. METERS AND SERVICE TAPS
 - A. WATER METER SERVICE CANS SHALL BE PLACED IN THE PARK STRIPS.
 - B. BEFORE SERVICES ARE TAPPED, CUT STAKES MUST BE INSTALLED WITHIN FIVE (5) FEET OF THE FINAL CAN PLACEMENT. CUT STAKES SHALL SHOW THE TOP BACK OF THE CURB LOCATION AND ELEVATION. STAKING FOR CUL-DE-SAC AND BULB/KNUCKLE STREETS WILL REQUIRE A RADIUS POINT TO BE STAKED.
 - C. THE CONTRACTOR WILL TAP MAINS AND SET METER BOXES TO ESTABLISHED GRADES.
 - D. SERVICE LATERAL SHALL BE A MINIMUM OF TEN (10) FEET OFFSET FROM SEWER LATERALS.
 - E. PUBLIC WORKS DEPARTMENT - WATER DIVISION WILL SUPPLY AND INSTALL THE WATER METERS.
14. FIRE HYDRANTS
 - A. HYDRANTS SHALL BE PLACED IN THE PARK STRIP AND ON PROPERTY LINES.
 - B. HYDRANTS SHALL BE PLACED A MINIMUM OF 5' FROM OTHER OBJECTS, WITH THRUSH BLOCK PLACED AGAINST NATIVE SOILS.

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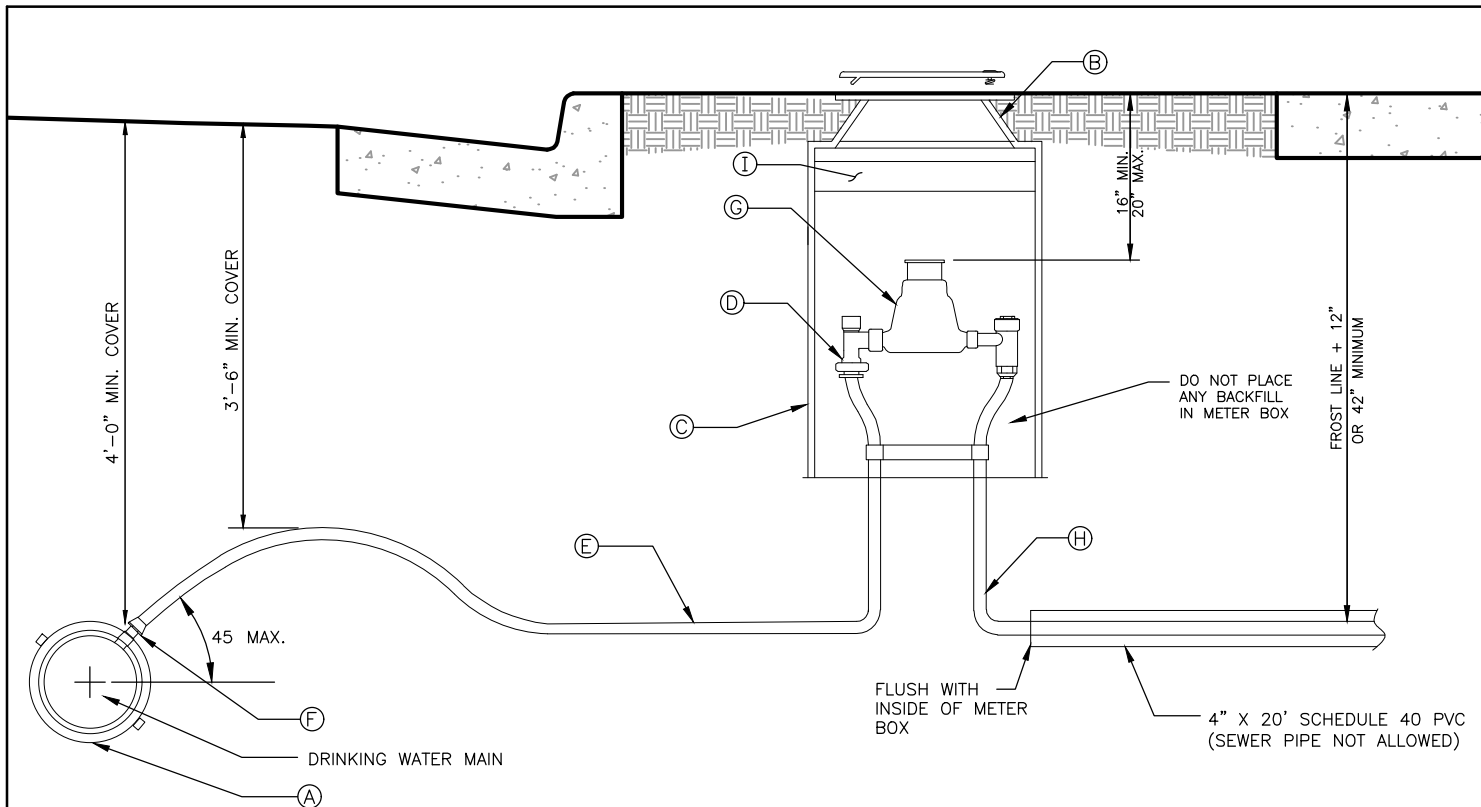
HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

DRINKING WATER NOTES

STD DWG #

DW-00

NO. REVISION DESCRIPTION BY APR DATE LAST UPDATED: 12/6/2023



LEGEND		
No.	ITEM	NOTE
(A)	MUELLER OR ROMAC WITH IP TAP	SINGLE OR DOUBLE STRAP STAINLESS STEEL BAND WITH TEFLON COATING
(B)	RING AND COVER	CAST IRON COVER (grass) WITH RECESSED KNOCKOUT DUCTILE COVER (driveway) WITH RECESSED RADIO HOLE COVER TO BE D&L L2240-UNVI
(C)	METER BOX (21" DIAMETER) (36" DEEP)	METER BARRELS A.D.S. (PREFERRED WHITE IN COLOR)
(D)	1" METER SETTER	WITH 1" LOCKABLE ANGLE METER VALVE AND 1" RESIDENTIAL DUAL CHECK VALVE (FORD OR MCDONALD)
(E)	COPPER PIPE 1"	TYPE K (SOFT)
(F)	CORPORATION STOP CTS X IRON PIPE SIZE	MUELLER 300 BALL TYPE CORPORATION STOP OR FORD FB1100
(G)	WATER METER	INSTALLED BY WATER DEPT. AT METER SET
(H)	COPPER OR POLY PIPE	CTS (COPPER TUBE SIZE) OR IPS (IRON PIPE SIZE)
(I)	INSULATING PAD	4" THICK FOAM PAD

NOTE:

1. ALL CONDUIT TO BE WHITE OR GRAY PVC
2. METER BOXES IN CONCRETE TO BE D&L SUPPLY MODEL B-5021-UNVI
3. STAMP THE LETTER "W" INTO BACK OF CURB ABOVE WATER LATERAL.
4. METER SETTER SHALL HAVE STRAIGHTENING PIPE IN PLACE (LEG).

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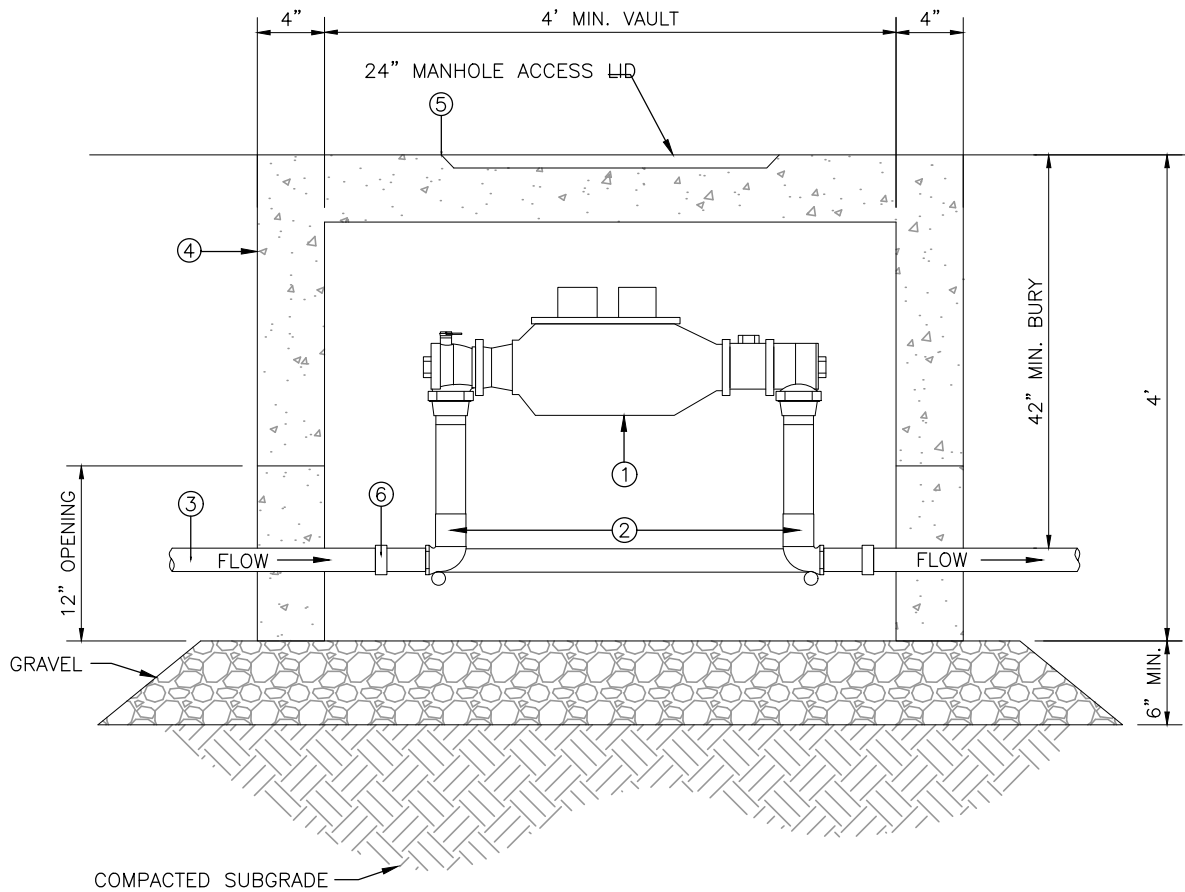
WATER METER DETAIL

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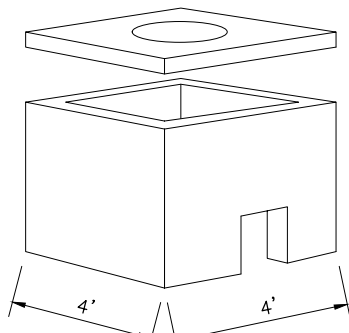
DW-01

NO. REVISION DESCRIPTION BY APR. DATE LAST UPDATED: 12/8/2023

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 OR VBH 46-18 WITH PADLOCK RING 18" RISE MUELLER H-1422-2
3.	1.5"-2" TYPE "K" SOFT COPPER ROLLED TUBING OR BLUE POLY (CTS)-NSF APPROVED	
4.	4'x4' PRECAST CONCRETE METER VAULT	(OR APPROVED EQUIVALENT)
5.	MAN HOLE LID	LID SHALL BE MARKED WATER AND HAVE A RECESSED HOLD FOR MXU. D&L A-1180-71i IMP
6.	1.5"-2" COMPRESSION	
7.	SERVICE SADDLE- DOUBLE STRAP - STAINLESS STEEL DOUBLE STRAP - BRONZE	NYLON-COATED ROMAC TYPE 202-NS ROMAC TYPE 202-B



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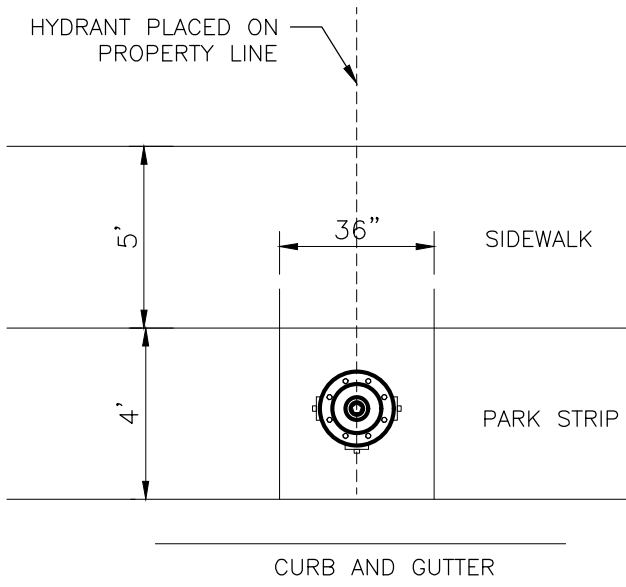
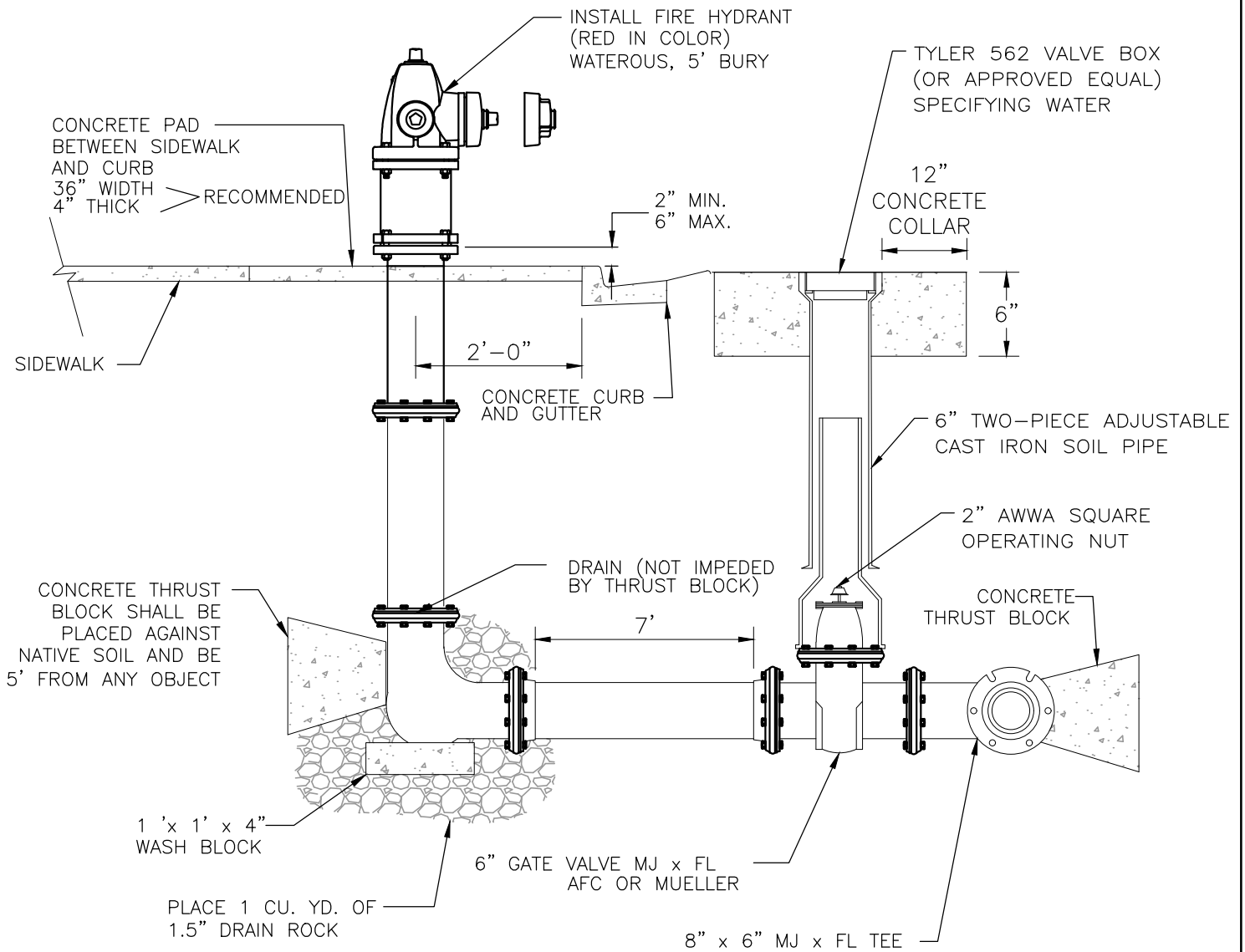


**HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING**

COMMERCIAL WATER METER VAULT

STD DWG #

DW-02



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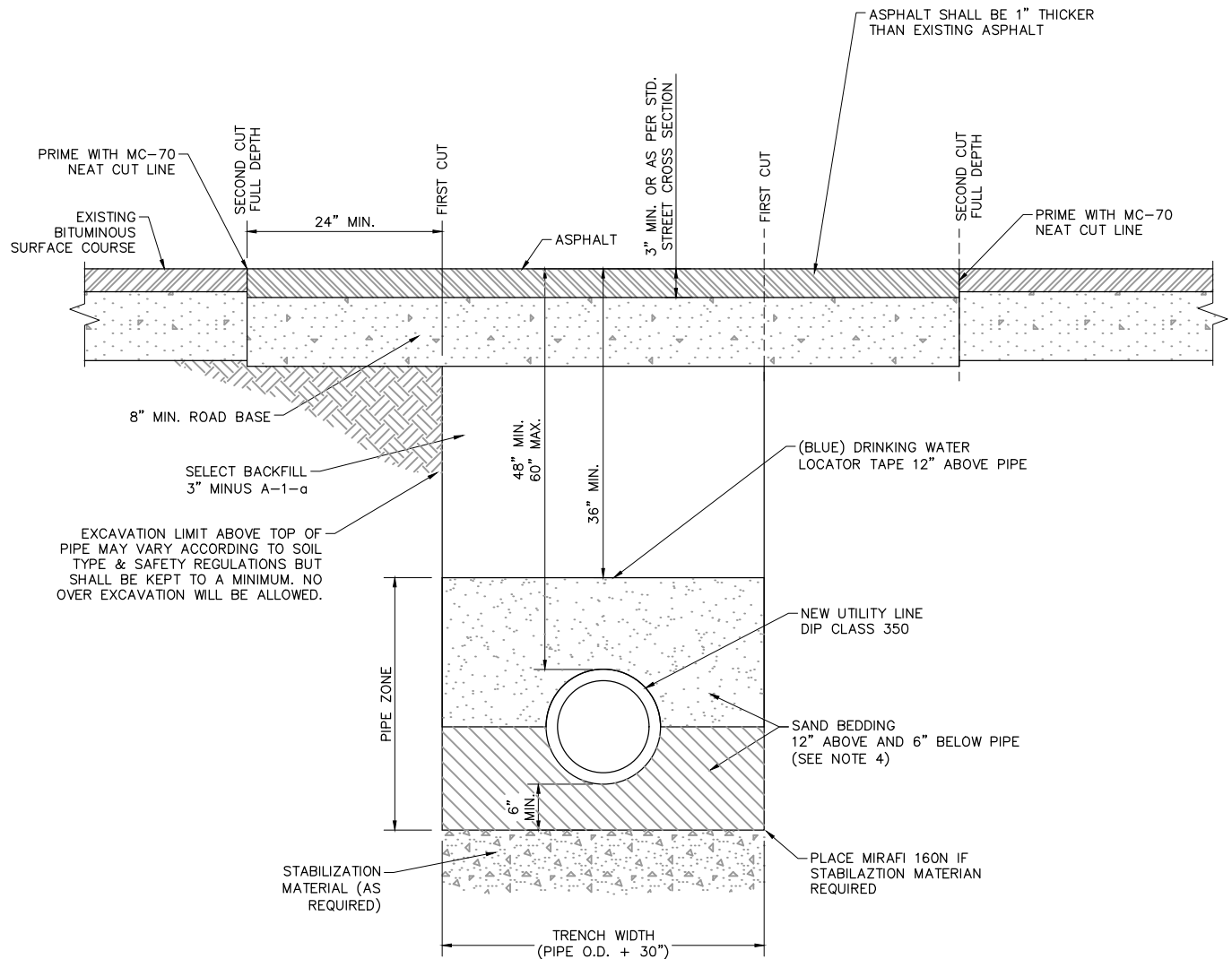
HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

FIRE HYDRANT DETAIL

STD DWG #

DW-03

NO.	REVISION DESCRIPTION	BY	APR	DATE	LAST UPDATED: 12/6/2023



NOTE:

1. USE APWA AS GUIDE.
2. POLYWRAP (AWWA) C 105 REQUIRED IN ALL LOCATIONS.
3. FM GREASE ON BOLTS.
4. NO ROCKS LARGER THAN 3/4" IN DIAMETER SHALL BE IN CONTACT WITH THE PIPE.
5. PIPE ZONE TO BE SAND WITH THE FOLLOWING GRADATION:

3/8 INCH SIEVE	100 PERCENT PASSING
NO. 100 SIEVE	1 TO 10 PERCENT PASSING

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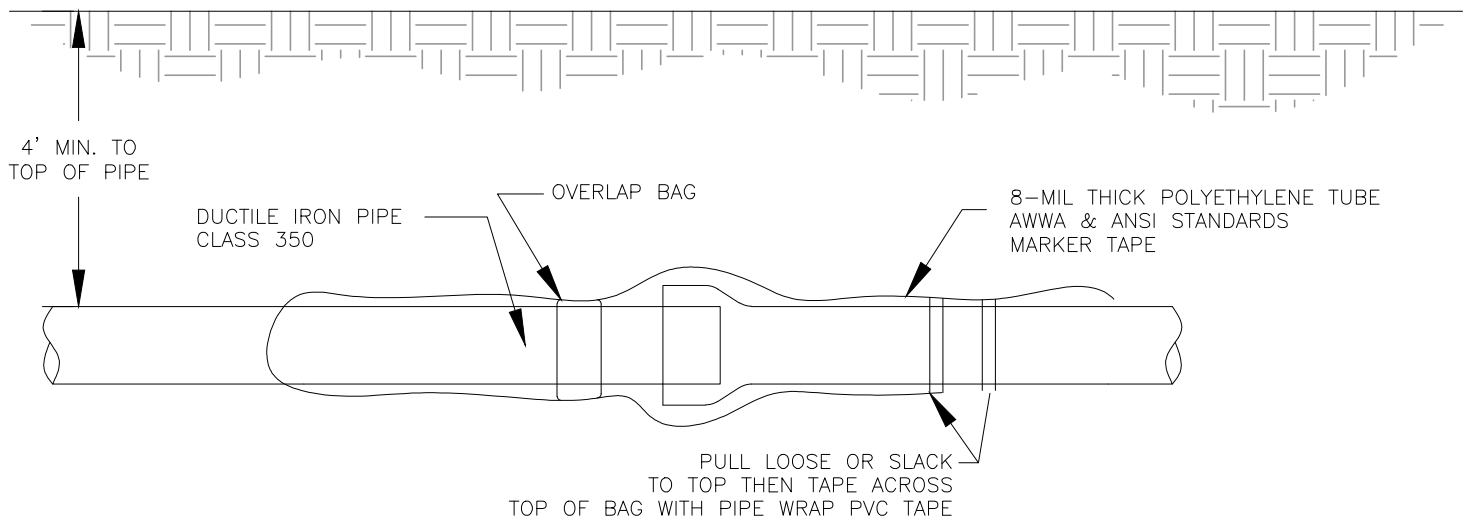
HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

WATER TRENCH DETAIL

STD DWG #

DW-04

NO.	REVISION DESCRIPTION	BY	APR	DATE	LAST UPDATED: 12/8/2023



NOTE: THE POLY WRAP MUST BE OVERLAPPED ON ALL JOINTS AND FITTINGS AND MUST BE DAMAGE FREE.

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**HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING**

POLYETHYLENE WRAP DETAIL

STD DWG #

DW-05

NO.	REVISION DESCRIPTION	BY	APR	DATE	LAST UPDATED: 12/8/2023

PRESSURIZED IRRIGATION NOTES:

1. ALL LATERALS SHALL BE STAMPED WITH "I" ON THE CURB ON THE LATERAL LOCATION.
2. MAIN PRESSURIZED IRRIGATION (PI) LINES
 - A. THE SUBGRADE AND/OR SUB-BASE SHALL BE AT ITS FINAL DESIGN ELEVATION BEFORE THE INSTALLATION OF THE WATER MAINS.
 - B. ALIGNMENT AND ELEVATION (FROM TBC) STAKING SHALL BE PROVIDED EVERY TWENTY-FIVE (25) FEET BY A SURVEYOR LICENSED IN THE STATE OF UTAH PRIOR TO INSTALLATION OF THE WATER MAIN. ANY EXCEPTIONS MUST BE APPROVED IN WRITING BY THE WATER SUPERINTENDENT.
 - C. PROVIDE PROPER FACILITIES FOR LOWERING PIPE SECTIONS INTO THE TRENCH. DROPPING PIPE WILL NOT BE PERMITTED.
 - D. THE PIPE SHALL BE PLUGGED AT THE END OF EACH WORK DAY, OR PERIOD OF WORK SUSPENSION.
3. VALVES
 - A. ALL VALVES SHALL HAVE MECHANICAL JOINT (MJ) TO THE MAIN.
 - B. VALVE BOXES AND COVERS SHALL BE PROPERLY ALIGNED AND FULLY SERVICEABLE.
 - C. VALVE STANDS SHALL HAVE A CONCRETE COLLAR.
4. THRUST BLOCKS
 - A. THE CAVITY OF THE THRUST BLOCK SHALL BE INSPECTED PRIOR TO THE PLACEMENT OF CONCRETE.
 - B. ENGINEERED THRUST BLOCKS, STAMPED BY A PROFESSIONAL ENGINEER, SHALL BE PROVIDED IN NON TYPICAL SITUATIONS, INCLUDING BEARING AGAINST FILL AND NOT UNDISTURBED SOIL.
 - C. THE INSPECTOR SHALL BE ON SITE FOR THE POUR OF THE THRUST BLOCK.
 - D. A CONCRETE WEIGH TICKET OR BATCH TICKET SHALL BE REQUIRED.
5. LOADING AND TESTING
 - A. PI LINE LOADING SHALL BE DONE UNDER THE DIRECT SUPERVISION OF THE PUBLIC WORKS DEPARTMENT.
 - B. ALL MAINS SHALL BE FLUSHED AND MAINTAIN A FLOW OF 2.5 FPS UNDER THE DIRECT SUPERVISION OF THE PUBLIC WORKS DEPARTMENT.
 - C. ALL PI LINES MUST PASS A HYDROSTATIC PRESSURE TEST AFTER SERVICES ARE CONNECTED OF TWO HUNDRED (200) POUNDS PER SQUARE INCH (PSI), OR ONE-HUNDRED TWENTY-FIVE (125) PERCENT OF THE WORKING PRESSURE, WHICHEVER IS GREATER, FOR A PERIOD OF TWO (2) HOURS.
5. SERVICE TAPS
 - A. IRRIGATION BOXES WILL BE PLACED ONE FOOT BEHIND THE SIDEWALK.
 - B. BEFORE SERVICES ARE TAPPED, CUT STAKES MUST BE INSTALLED WITHIN FIVE (5) FEET OF THE FINAL CAN PLACEMENT. CUT STAKES SHALL SHOW THE TOP BACK OF THE CURB LOCATION AND ELEVATION.
 - C. ALL SERVICE FITTINGS WILL BE BRASS AND INSTALLED BY THE CONTRACTOR.
 - D. ALL SADDLES WILL BE TIGHTENED WITH A TORQUE WRENCH AND MEET THE PIPE MANUFACTURER'S RECOMMENDATIONS.

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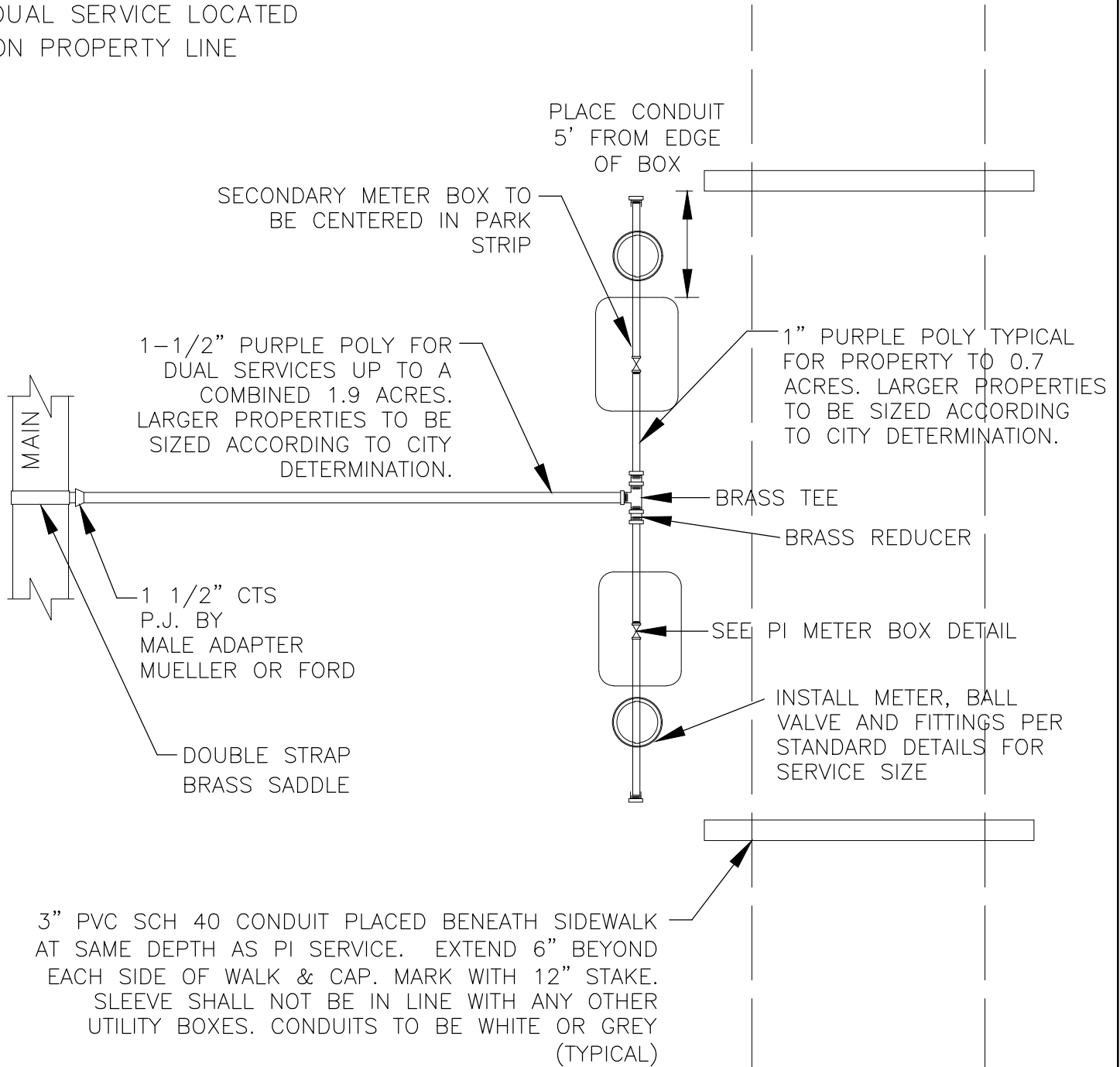
PRESSURIZED IRRIGATION NOTES

STD DWG #

PI-00

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NOTE:
DUAL SERVICE LOCATED
ON PROPERTY LINE



STIFFNER INSERT TO BE USED ON CONNECTION TO ALL POLY JOINTS
TRACER WIRE TO EXTEND TO BOX FROM MAIN

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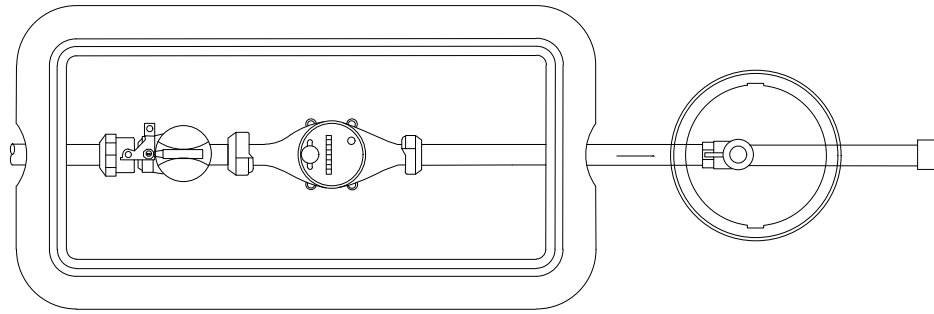
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P.I. SERVICE DETAIL

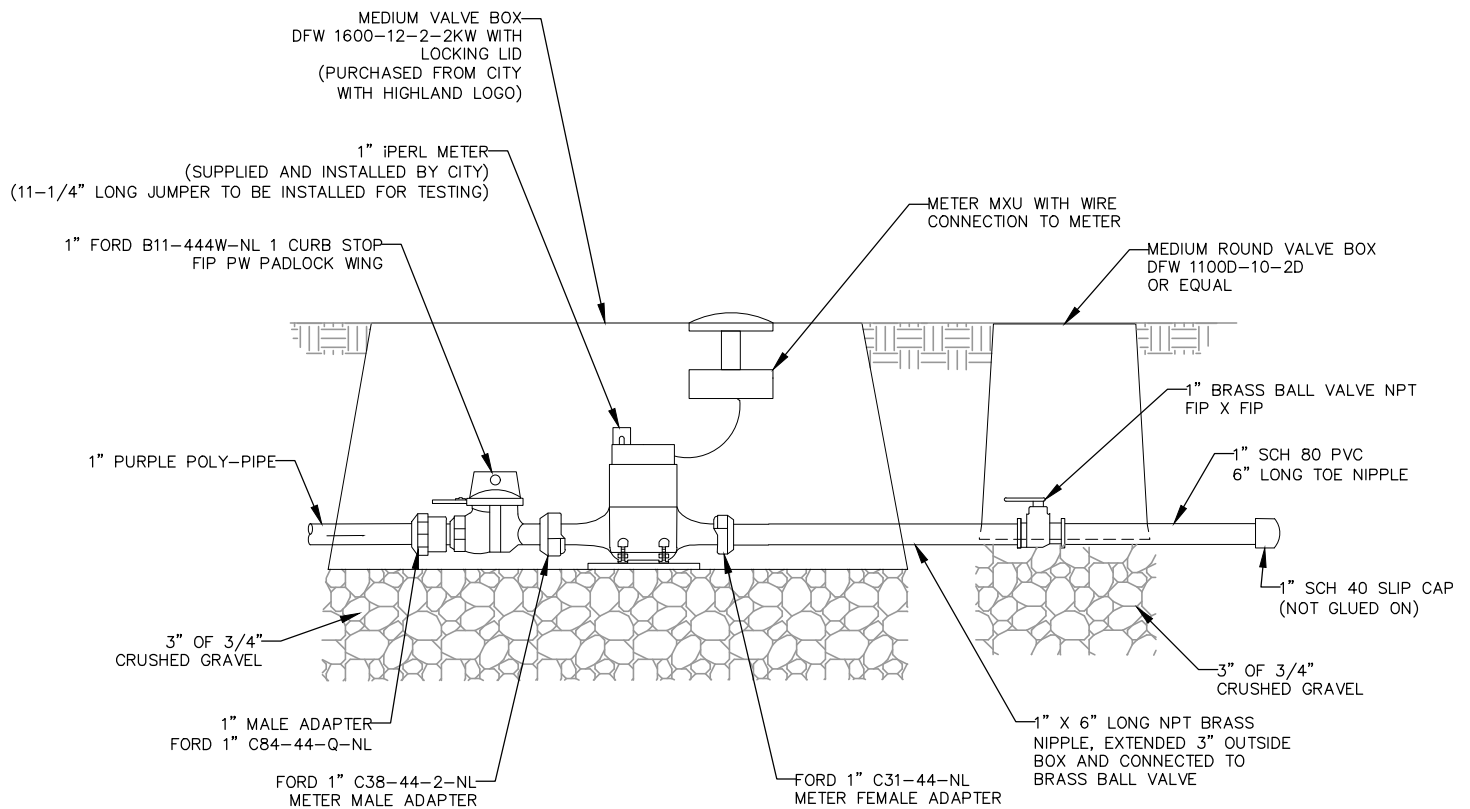
STD DWG #

PI-01

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PLAN



SECTION

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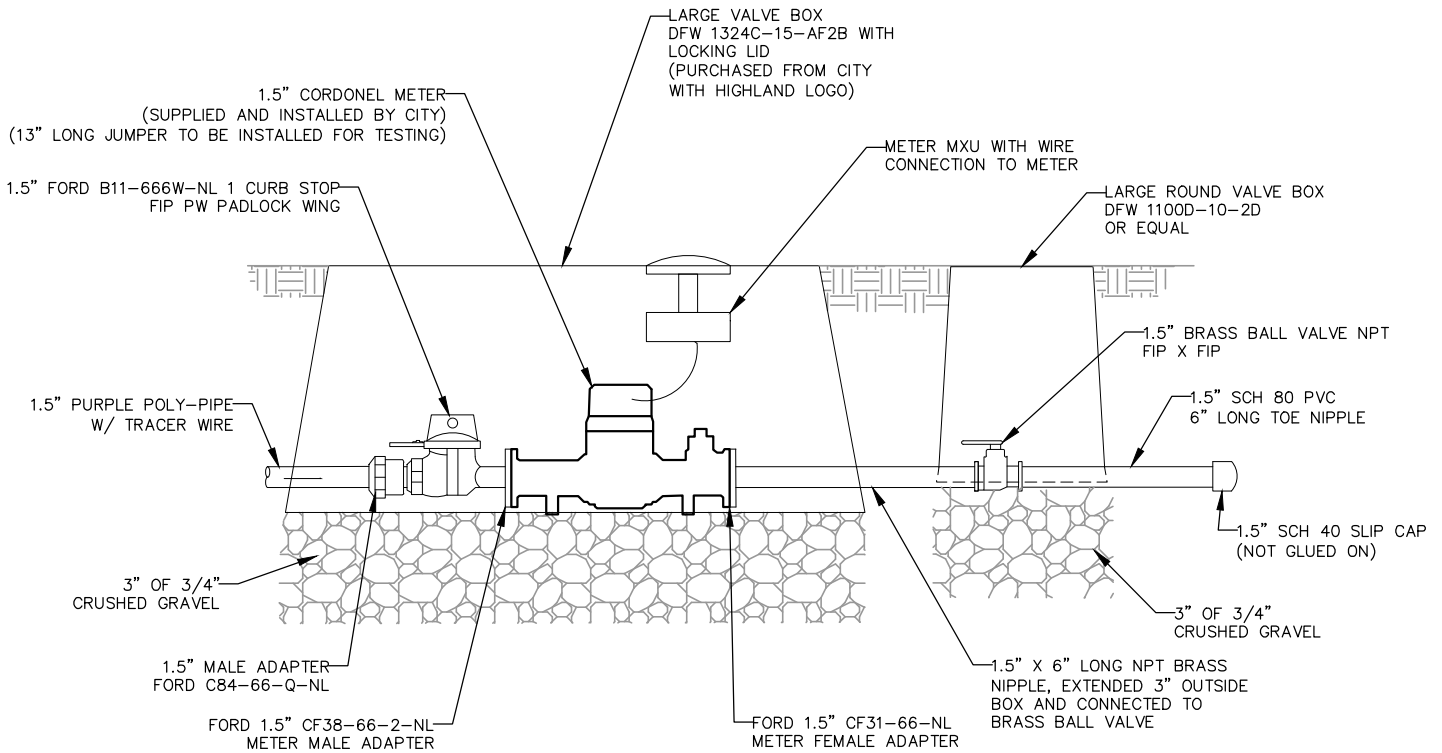
HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

P.I. 1-INCH METER BOX DETAIL

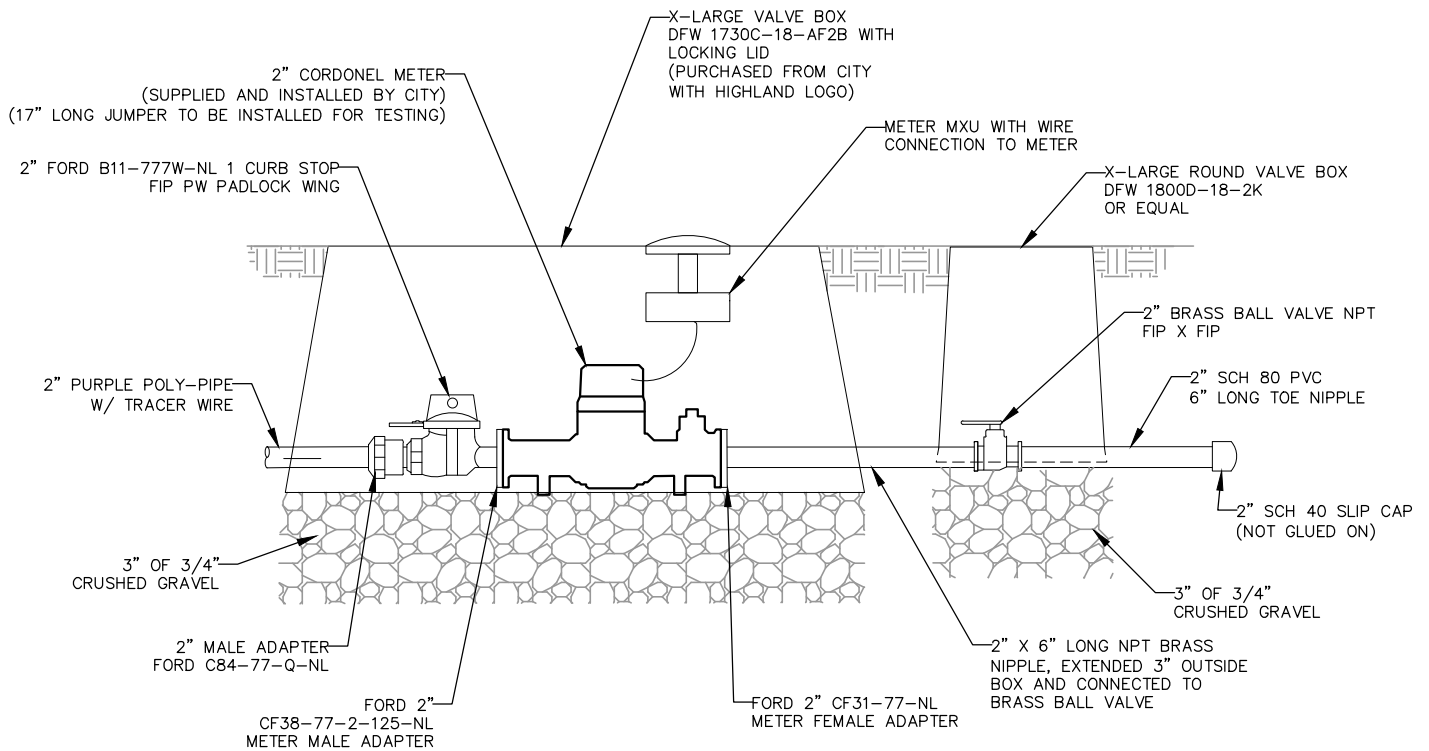
STD DWG #

PI-02

NO.	REVISION DESCRIPTION	BY	APR	DATE	LAST UPDATED: 12/6/2023



1.5" CITY STANDARD PI METER DETAIL



2" CITY STANDARD PI METER DETAIL

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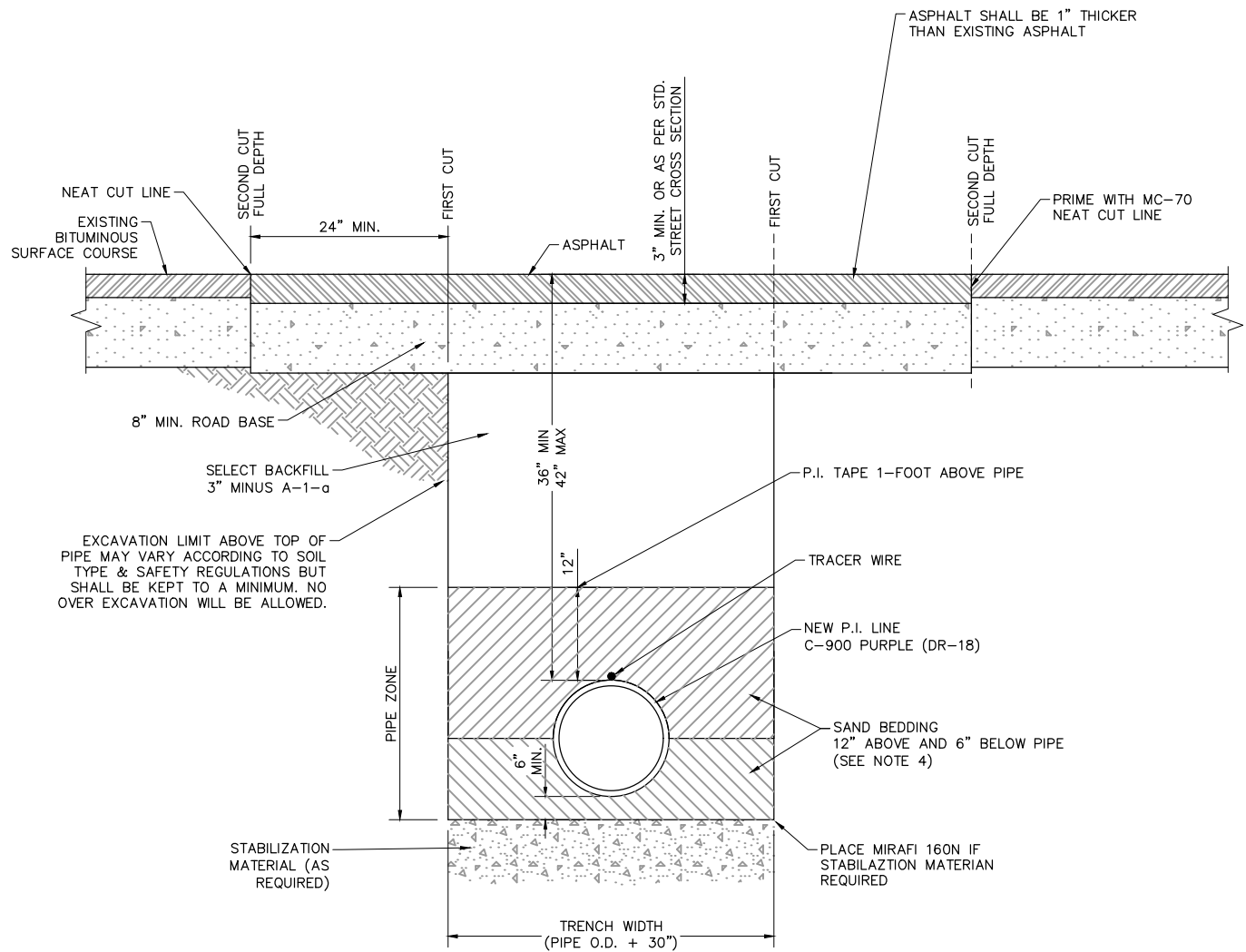


**HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING**

P.I. 1.5 & 2-INCH METER BOX DETAIL

STD DWG #

PI-03



NOTE:

1. USE APWA AS GUIDE.
2. POLYWRAP (AWWA) C 105 DIP.
3. FM GREASE ON BOLTS.
4. SEE APWA AND SPECIFICATIONS FOR ASPHALT.
4. NO ROCKS LARGER THAN 3/4" IN DIAMETER SHALL BE IN CONTACT WITH THE PIPE.
5. PIPE ZONE TO BE SAND WITH THE FOLLOWING GRADATION:

3/8 INCH SIEVE	100 PERCENT PASSING
NO. 100 SIEVE	1 TO 10 PERCENT PASSING

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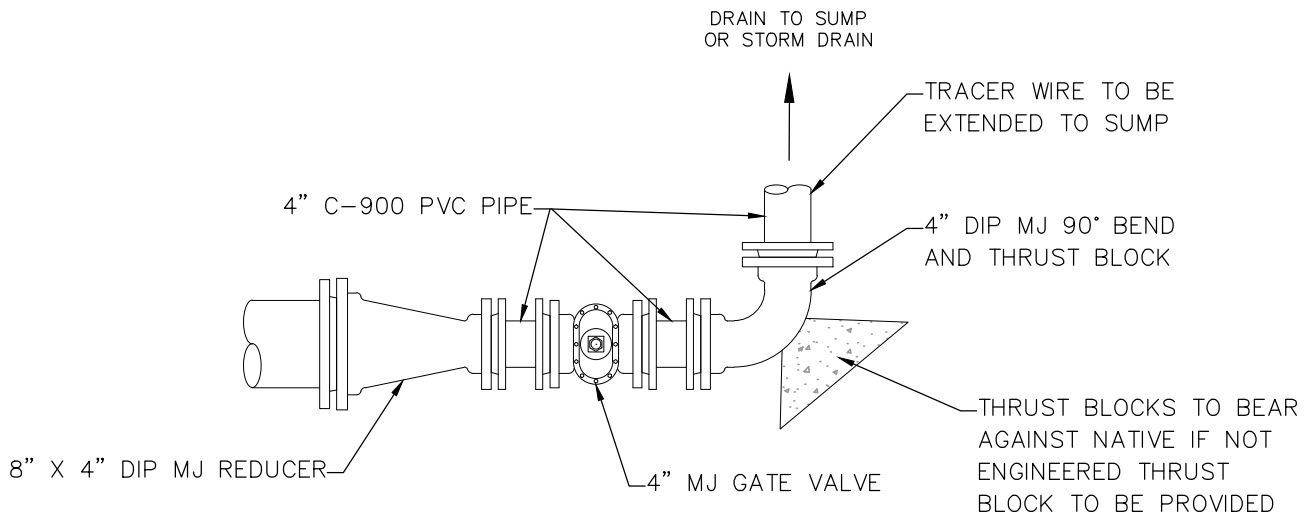
P.I. WATER LINE TRENCH DETAIL

STD DWG #

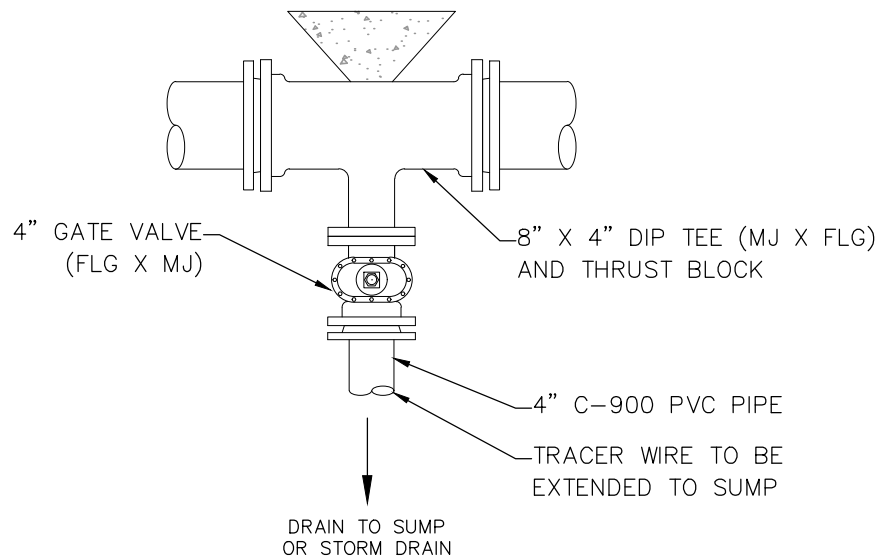
PI-04

NO.	REVISION DESCRIPTION	BY	DATE	LAST UPDATED: 12/8/2023

END OF LINE 4" DRAIN



LOW SPOT IN LINE



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P.I. DRAIN DETAIL

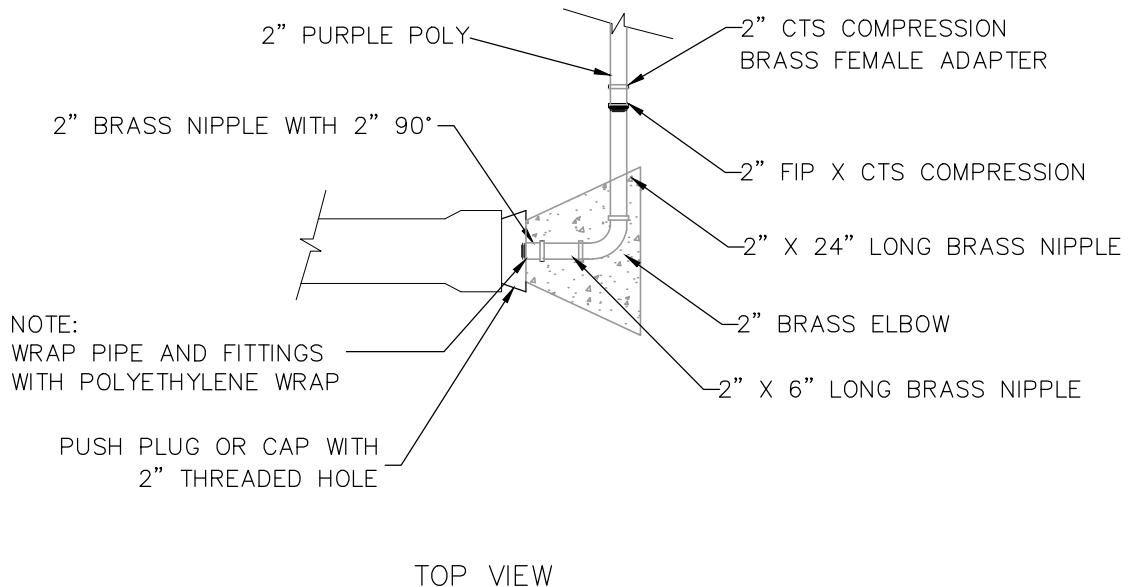
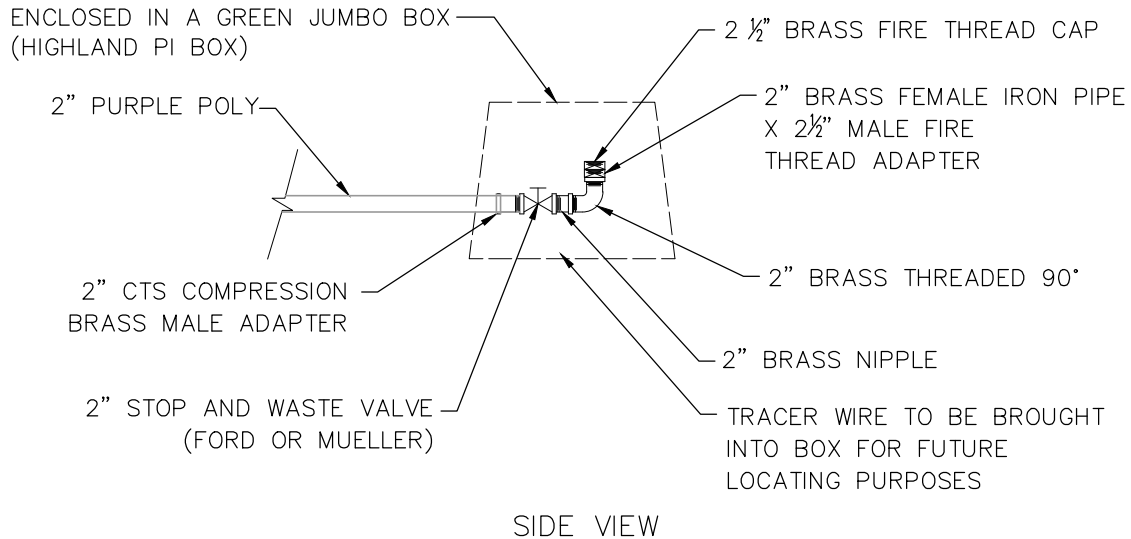
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PI-05

NO.	REVISION DESCRIPTION	BY	DATE	LAST UPDATED: 12/6/2023

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

(THIS IS USED WHEN FLOW DRAINS OUT OF CUL-DE-SAC)



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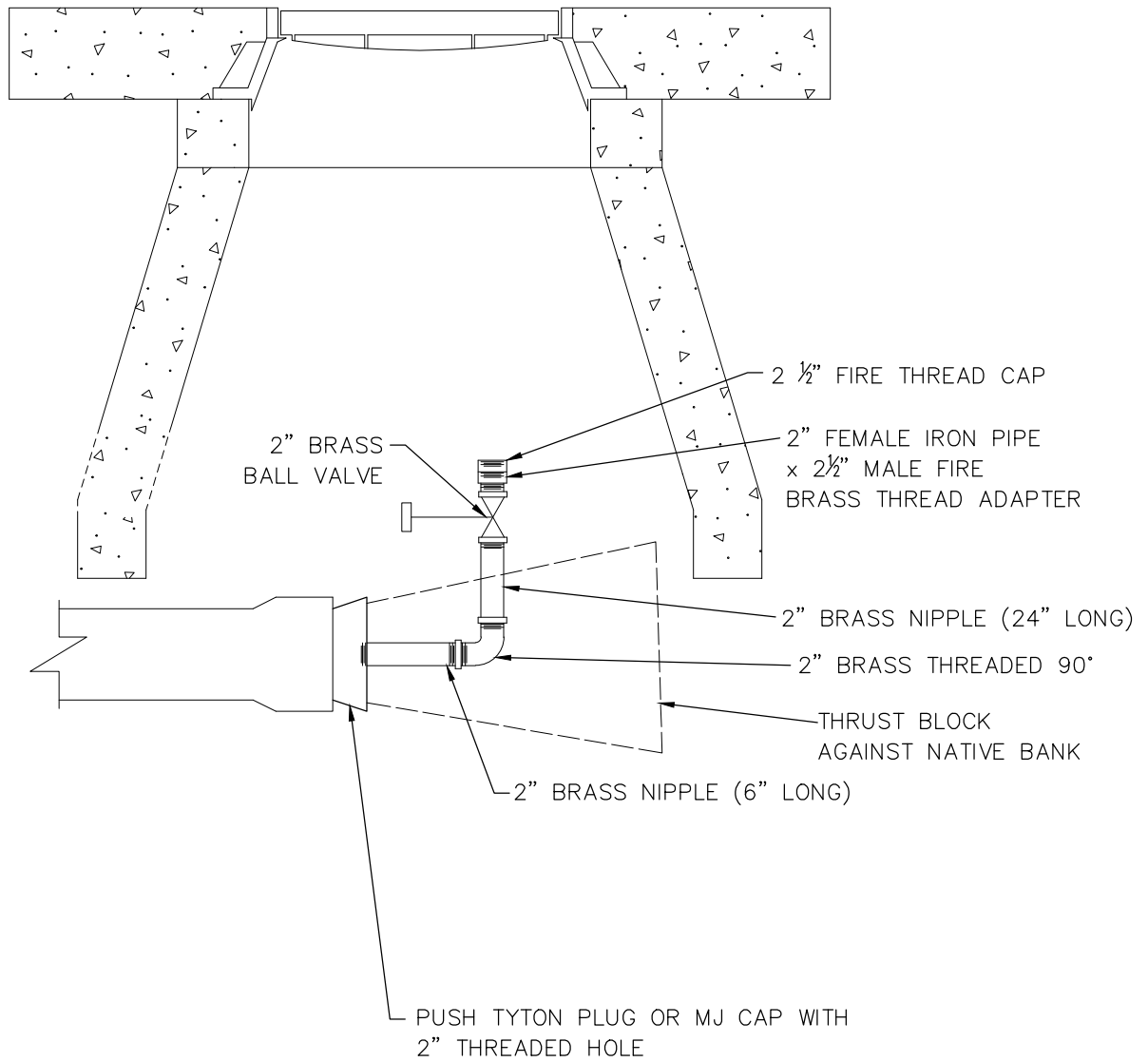
P.I. BLOW OFF IN CUL-DE-SAC

STD DWG #

PI-06

NO.	REVISION DESCRIPTION	BY	APR	DATE	LAST UPDATED: 12/6/2023

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.
TRACER WIRE TO END IN BLOWOFF.

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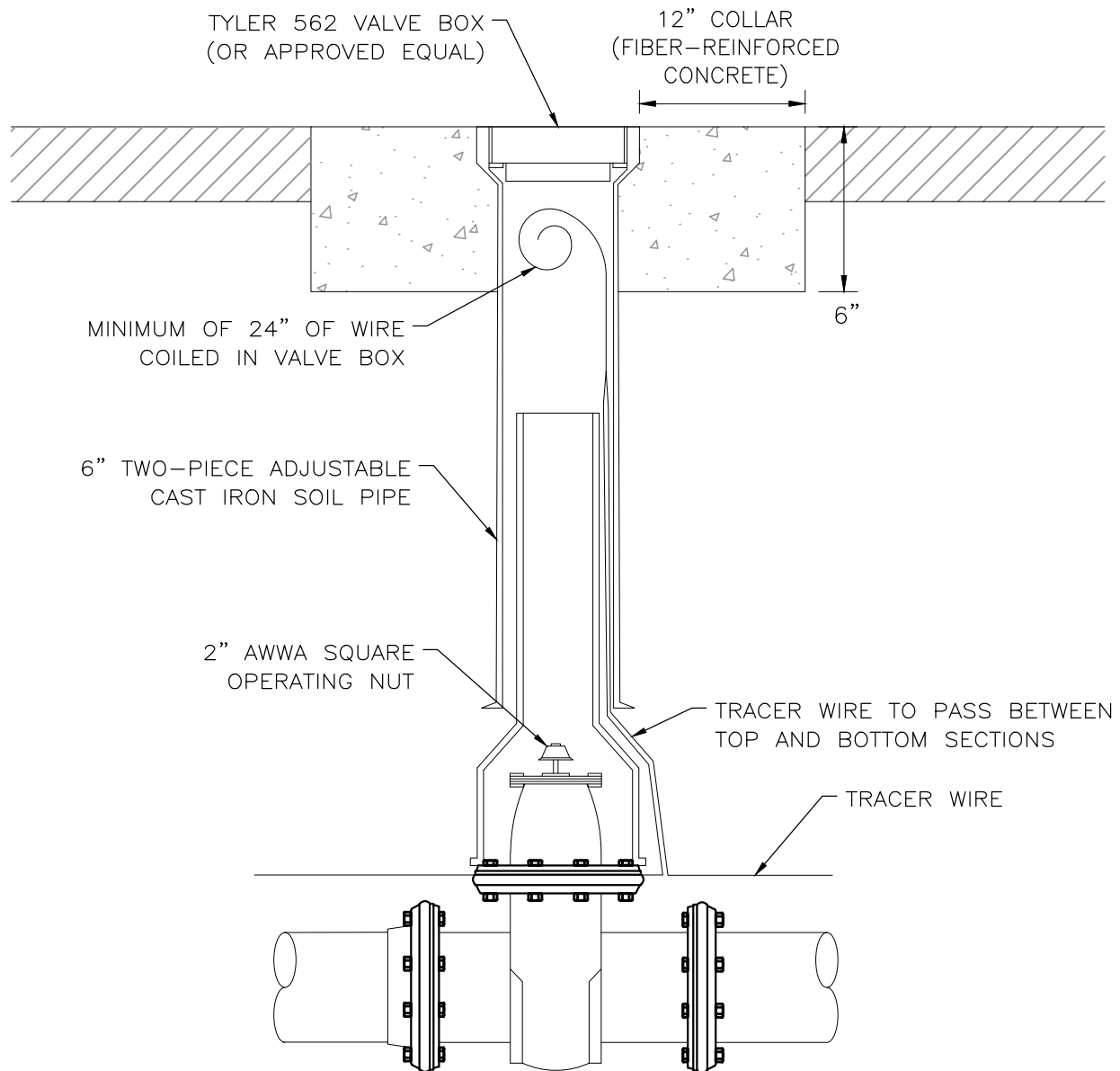
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TEMPORARY P.I. BLOW-OFF DETAIL

STD DWG #

PI-07

NO.	REVISION DESCRIPTION	BY	APR	DATE	LAST UPDATED: 12/6/2023



NOTES:

1. VALVE BOX SHALL BE CLEAN, PLUMB AND PROPERLY ALIGNED ON THE VALVE WITH THE LID LABELED "IRRIGATION".
2. VALVE OPERATING NUT SHALL BE WITHIN 3' TO FINISHED SURFACE. EXTENSION STEMS WITH ROCK SHIELDS SHALL BE PROVIDED WHERE DEPTHS EXCEED 4'.
3. IF EXTENSION STEM IS PROVIDED, A HOLE SHALL BE DRILLED IN THE UPPER SECTION VALVE BOX FOR TRACER WIRE.

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VALVE BOX

STD DWG #

PI-08

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