Beaver City

CONSTRUCTION STANDARD DRAWINGS



Updated April 11, 2022

CULINARY WATER & IRRIGATION GENERAL NOTES:

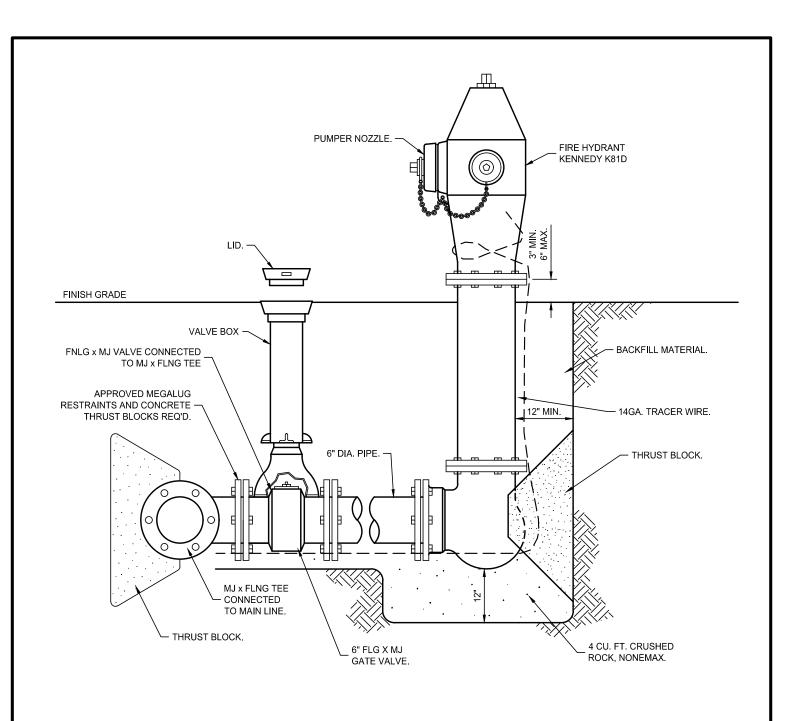
- INFORMATION FOR EXISTING CULINARY WATER, IRRIGATION LINES, AND OTHER BURIED UTILITIES IS BASED ON BEST AVAILABLE INFORMATION AND IS ACCORDING TO BEAVER CITY RECORDS, HOWEVER ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED BY CITY. CONTRACTOR SHALL ACCEPT SITE AS IS, AND SHALL ASSUME ALL LIABILITY FOR FINAL LOCATION AND PRESERVATION OF ALL UTILITIES.
- WHEN AN EXISTING LINE IS TO BE ABANDONED, COMPLETELY DISCONNECT FROM ANY PIPING THAT REMAIN PART OF THE WATER SYSTEM. VALVE BOXES ON ABANDONED WATER LINES SHALL BE FULLY
- WHEN NEW VALVES ARE INSTALLED ON WATER MAIN LINES, VALVES ARE TO BE LOCATED IMMEDIATELY ADJACENT TO MAINLINE OR FITTINGS (WITH MJ X FLG), OR IN LINE WITH APPARENT PROPERTY LINES, OR DIRECTED BY BEAVER CITY WATER DEPARTMENT.
- PRIOR TO STARTING ANY WORK ON PRIVATE PROPERTY OUTSIDE OF EASEMENTS OR OUTSIDE OF PUBLIC RIGHTS OF WAY, CONTRACTOR REQUIRED TO OBTAIN WRITTEN APPROVAL FROM PROPERTY OWNER. COORDINATE WORK WITH PROPERTY OWNER AND BEAVER CITY. PROVIDE MINIMUM 24 HR. NOTICE BEFORE STARTING WORK.
- REMOVE AND REPLACE ALL TRAFFIC AND SAFETY SIGNS AS NECESSARY. STOP SIGNS AND OTHER IMPORTANT SAFETY SIGNS SHALL BE IMMEDIATELY TEMPORARILY INSTALLED IN AN APPROPRIATE LOCATION UNTIL THEY CAN BE PERMANENTLY REINSTALLED IN ORIGINAL LOCATION OR AS DIRECTED.
- REPLACE OR RECONNECT EXISTING SERVICE LINES AS DIRECTED. CONNECT TO COMPETENT SERVICE LINE ON PRIVATE SIDE OF METER AND TO MAINLINE ON CITY SIDE OF METER.
- OPEN CUTTING TRENCHING OF EXISTING PAVED STREETS/HIGHWAYS FOR SERVICE LINE IS NOT PERMITTED UNLESS PERMITTED BY BEAVER CITY. TRENCHLESS CROSSING BY JACKING, MOLE, BORE HORIZONTAL DIRECTIONAL DRILL REQ'D.
- WHERE WATER LINE CROSSES OVER THE TOP OF A SEWER LINE A VERTICAL SEPARATION OF 18" SHALL BE MAINTAINED AND NO JOINTS IN PIPE ARE ALLOWED ON WATER LINES WITHIN 10 FEET EACH SIDE OF CROSSING.
- WHERE A CULINARY WATERLINE PARALLELS SEWER LINE A HORIZONTAL SEPARATION OF AT LEAST 10 FEET MUST BE MAINTAINED
- 10 SEWER LATERALS TO BE INSTALLED BELOW EXISTING WATERLINES.
- 11. NEW INACTIVE FIRE HYDRANTS OR TEMPORARILY DISCONNECTED EXISTING FIRE HYDRANTS SHALL BE CLEARLY MARKED BY BEAVER CITY AS BEING UNUSABLE BY COVERING SECURELY WITH BLACK PLASTIC OR OTHER METHOD APPROVED.
- 12. EXCAVATE AS NECESSARY TO MAINTAIN POSITIVE GRADE ON DISTRIBUTION MAINLINE PIPING EXCEPT WHERE AIR VALVE(S) ARE REQ'D BY BEAVER CITY. INSTALL AIR VALVE(S) AT HIGH POINT.
- 13. CONTRACTOR SHALL OBTAIN AND PAY COST FOR ENCROACHMENT PERMIT AND BOND FROM BEAVER CITY AND/OR UTAH DEPARTMENT OF TRANSPORTATION PRIOR TO STARTING WORK ACCORDANCE TO SPECIFICATIONS. ADDITIONALLY CONTRACTOR SHALL PROVIDE TRAFFIC SAFETY AND SIGNAGE PLAN TO BEAVER CITY/UDOT FOR REVIEW AND APPROVAL PRIOR TO STARTING WORK.
- 14. FLOWABLE FILL MAY BE USED IN PLACE OF COMPACTED BACKFILL. SEE R16. PRE-APPROVAL FROM CITY MANAGER REQ'D.
- 15. ALL MATERIALS MUST MEET BEAVER CITY SPECIFICATIONS OR BE APPROVED BY BEAVER CITY
- OPEN CUTTING MAY BE ALLOWED, CONTRACTOR/DEVELOPER REQUIRED TO OBTAIN AND PAY FOR ENCROACHMENT PERMIT FROM BEAVER CITY.

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CONSTRUCTION STANDARDS

GENERAL NOTES

SCALE:



- STAINLESS STEEL BOLTS REQUIRED IN AREAS WITH HIGH WATER TABLE.
- INSTALL TRACER WIRE WITH PLASTIC PIPE. WRAP TRACER WIRE AROUND FIRE HYDRANT ABOVE GROUND.
- INSTALL FIRE HYDRANTS PLUMB.
- GREASE ALL FITTING BOLTS, AND PLASTIC WRAP REQ'D.
- HOT TAP TEES MAY BE PLACED UNDER CERTAIN SITUATIONS PER BEAVER CITY.

Beaver City

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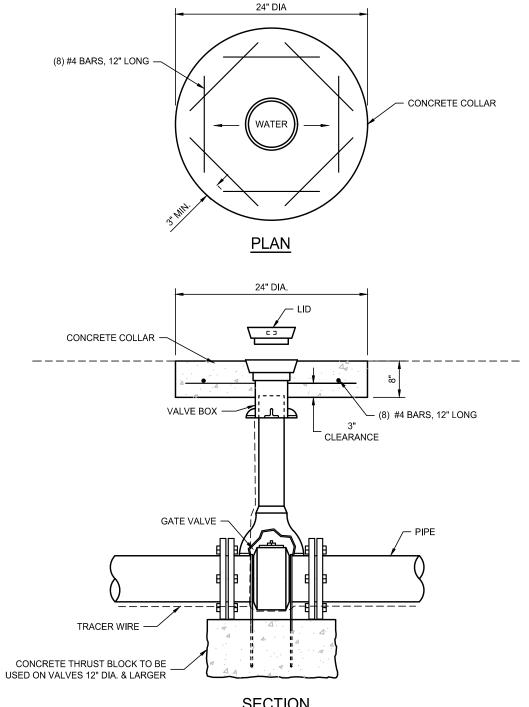
CONSTRUCTION STANDARDS

CULINARY WATER CONSTRUCTION

FIRE HYDRANT

SCALE: FILE: STND_DETS_2022 DRAWN: SJ PROJECT: 1705-381 NONE UPDATED: 3/31/2022

SHEET: CW₁



SECTION

NOTES:

- APPROVED MEGALUG RESTRAINTS AND CONCRETE THRUST BLOCKS REQ'D.
- STAINLESS STEEL BOLTS REQUIRED IN AREAS WITH HIGH WATER TABLE.
- INSTALL TRACER WIRE WITH PLASTIC PIPE. WRAP TRACER WIRE AROUND FIRE HYDRANT ABOVE GROUND.
- INSTALL VALVE PLUMB.
- GREASE ALL FITTING BOLTS AND PLASTIC WRAP REQ'D.
- SCRATCH DIRECTIONAL ARROWS IN CONCRETE COLLAR.
- LOCATE METERS WITHIN TEN(10) FEET OF EDGE OF PROPERTY, AS APPROVED BY BEAVER CITY WATER DEPT.

NONE

Beaver City

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CONSTRUCTION STANDARDS

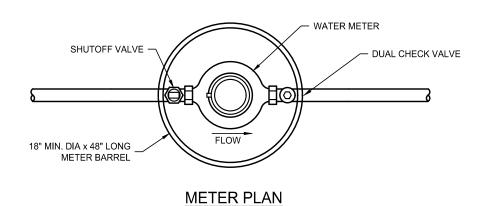
CULINARY WATER CONSTRUCTION

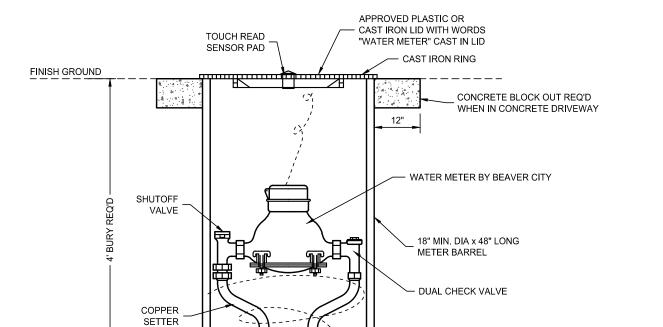
UPDATED: 3/31/2022

GATE VALVE

SCALE: DRAWN: SJ FILE: STND_DETS_2022 PROJECT: 1705-381

SHEET: CW2





CONNECT SERVICE LINE TO COPPER SETTER

1. TRAFFIC BARREL REQ'D AS DIRECTED.

FLOW

METER SECTION

 WHEN METER IS LOCATED WITHIN EXISTING OR NEW CONCRETE DRIVEWAY, BLOCK OUT REQ'D W/ MIN. 12" OUTSIDE OF BARREL.

Beaver City

CONSTRUCTION STANDARDS

DEVELOPER/HOME OWNER

RESPONSIBLE TO CONNECT TO SETTER

SHEET:

CW3

CULINARY WATER CONSTRUCTION

METER BOX

DRAWN: SJ 08/17 FILE: STND_DETS_2022 PROJECT: 1705-381

 SCALE:
 DRAWN:
 SJ
 08/17
 FILE:
 STND_DETS_2022
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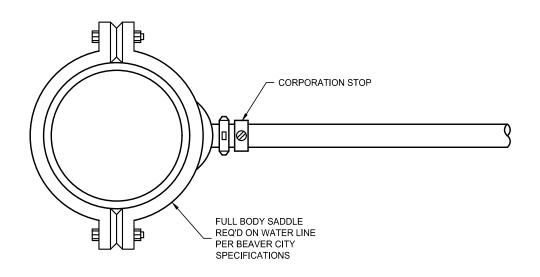
 NONE
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 UPDATED:
 3/31/2022
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PREPARED BY:

14ga. TRACER WORE/

WRAP END AROUND

COPPER SETTER



Beaver City

CONSTRUCTION STANDARDS

CULINARY WATER CONSTRUCTION

WATER SERVICE CONNECTION

SHEET:

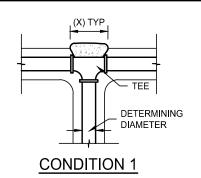
CW4

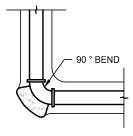
SCALE: STND_DETS_202ROJECT: 1705-381 DRAWN: SJ 08/17 NONE UPDATED:

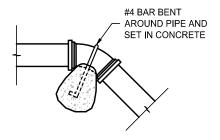
Jones & DeMille Engineering, Inc.

PREPARED BY:



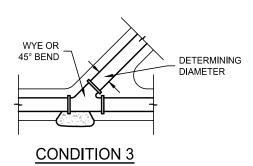


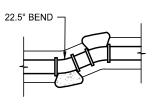




CONDITION 2

VERTICAL BEND DETAIL

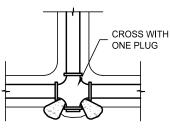




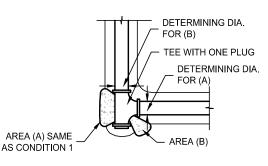
BEARING SURFACE

CONDITION 4

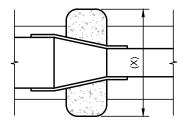
TYPICAL THRUST BLOCK SECTION









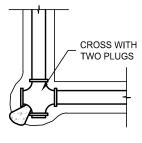


REDUCER THRUST BLOCK

8"x 4" REDUCER - BEARING AREA = 7.5 SQ. FT. 8"x 6" REDUCER - BEARING AREA = 4.4 SQ. FT. 10"x 6" REDUCER - BEARING AREA = 10.0 SQ. FT. 10"x 8" REDUCER - BEARING AREA = 5.6 SQ. FT. 12"x 6" REDUCER - BEARING AREA = 17.0 SQ. FT. 12"x 10" REDUCER - BEARING AREA = 6.9 SQ. FT.

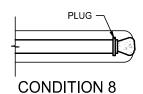
SHEET:

CW5



CONDITION 7

PREPARED BY:



NOTE: SEE CW6 FOR THRUST BLOCK BEARING AREAS.

SCALE:

Beaver City

CONSTRUCTION STANDARDS

CULINARY WATER CONSTRUCTION

THRUST BLOCKS



	THRUST BLOCK BEARING AREA (X) x (Y)							
DIDE CIZE	CONDITION NUMBER & PIPE WORKING PRESSURE							
PIPE SIZE	1	2	3	4	* 5	6 (B)	7	8
	200	200	200	200	200	200	200	200
2"	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4"	2.5	3.5	1.9	1.0	1.8	1.8	3.5	2.5
6"	5.7	8.0	4.4	2.2	4.0	4.0	8.0	5.7
8"	10.1	14.2	7.7	3.9	7.1	7.1	14.2	10.1
10"	15.7	22.2	12.1	6.1	11.1	11.1	22.2	15.7
12"	22.6	31.9	17.4	8.8	16.0	16.0	31.9	22.6
16"	31.6	44.6	24.4	12.3	22.4	22.4	44.6	31.6

^{*} NOTE: BEARING AREAS ARE IN SQUARE FEET. AREA APPLIES TO EACH INDIVIDUAL BLOCK (2 REQ'D).

- 1. ALL THRUST BLOCKS SHALL BE POURED WITH BEARING SURFACES AGAINST UNDISTURBED EARTH OR AN APPROVED COMPACTED FILL.
- 2. CONCRETE SHALL BE 2500 psi OR HIGHER.
- 3. ALL THRUST BLOCK SIDES SHALL BE FORMED.
- 4. ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 1000 psf.
- THE RATIO OF "X" TO "Y" (THRUST BLOCK AREA) SHALL BE NO GREATER THAN 3:1.
- MINIMUM CURE TIME FOR THRUST BLOCKS IS 3 DAYS PRIOR TO PRESSURIZING SYSTEM.
- 7. THRUST BLOCKS SHALL NOT INTERFERE WITH NUTS & BOLTS OF FITTINGS.
- 8. SEE PIPE CONDITIONS ON CW5.
- 9. INSTALL MECHANICAL JOINT RESTRAINT ON ALL JOINTS OF FITTINGS.
- 10. INCLUDE APPROVED MECHANICAL RESTRAINED WITH CONCRETE THRUST BLOCKS. SEE CW7.



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CONSTRUCTION STANDARDS

CULINARY WATER CONSTRUCTION

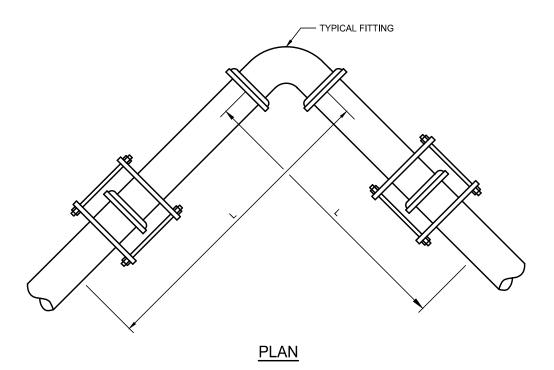
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DRAWN: SJ 08/17

FILE: STND_DETS_2022 PROJECT: 1705-381

SHEET: CW6



- 1. ALL JOINTS WITHIN DISTANCE "L" SHALL BE RESTRAINED.
- 2. RESTRAIN JOINTS REQ'D ON ALL FITTINGS.
- 3. DISTANCE REQ'D FOR JOINT RESTRAINTS DEPENDS ON FITTING TYPE, SOIL TYPE AND WORKING PRESSURE.
- 4. DESIGN CRITERIA:
 - a. WORKING PRESSURE: 200 p.s.i.
 - b. SAFETY FACTOR: 1.5.
- 5. DISTANCE "L" REQUIRED FOR JOINT RESTRAINTS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

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CONSTRUCTION STANDARDS

CULINARY WATER CONSTRUCTION

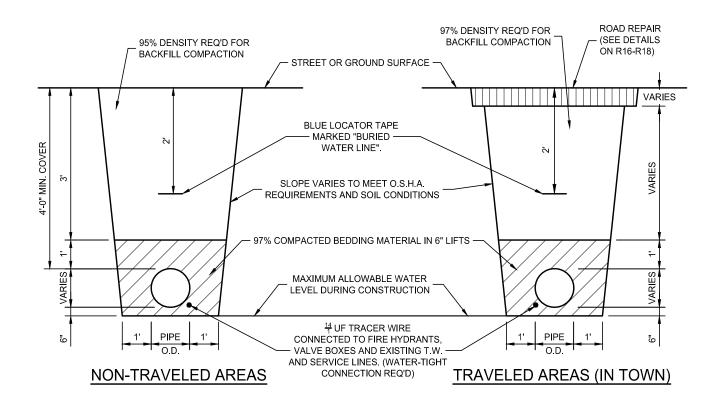
STANDARD RESTRAINED JOINTS

SCALE: FILE: STND_DETS_2022 PROJECT: 1705-381 DRAWN: SJ 08/17

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SHEET:



FLOWABLE FILL MAY BE USED IN PLACE OF COMPACTED BACKFILL IF APPROVED BY CITY MANAGER. SEE R16.

Beaver City

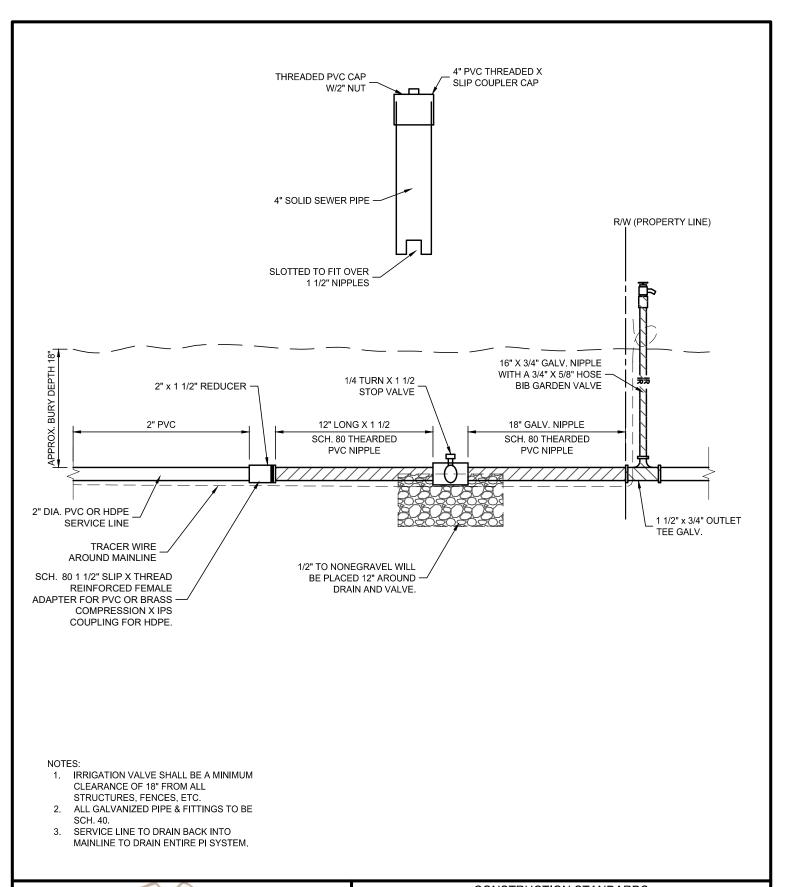
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CONSTRUCTION STANDARDS

CULINARY WATER CONSTRUCTION

UTILITY TRENCH DETAIL FOR WATER LINES





Beaver City

CONSTRUCTION STANDARDS

IRRIGATION CONSTRUCTION

IRRIGATION SERVICE VALVE & RISER

SCALE: DRAWN: SJ 08/17 FILE: STND_D

NONE

FILE: STND_DETS_2022 PROJECT: 1705-381
UPDATED: 3/31/2022 PLOTTED: 3/31/2022

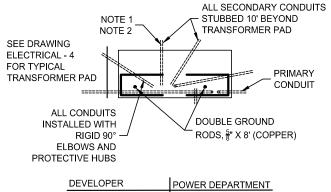
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PREPARED BY:

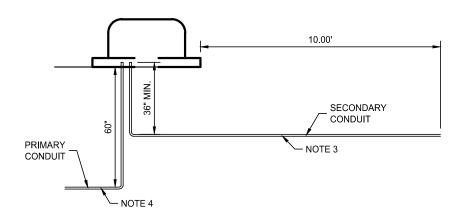
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10

- THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF SUFFICIENT QUALITY OF CONDUITS.
- ALL STUB OUTS MUST POINT IN GENERAL DIRECTION OF FRONT CORNER OF BUILDING & EXTEND BEYOND PROPERTY LINE OF INTENDED LOT USE.
- FOR RESIDENTIAL 200A SERVICE: 3" CONDUITS TO RESIDENT 3" CONDUITS TO SECONDARY JUNCTION DOME
- PRIMARY CABLE CONDUIT TYPICAL 4" THE DEVELOPER IS REQUIRED TO COORDINATE WITH THE POWER DEPARTMENT FOR SPECIFIC CONDUIT SIZE REQUIRED.
- CONDUIT MUST BE BURIED 1' FOR EACH 1" IN DIAMETER, (EXAMPLE 6" MUST BE BURIED 6').
- ALL CONDUIT UNDER 6" WILL USE RIGID 90'S AND FITTINGS, EXCEPT IN AREAS OTHERWISE SPECIFIED BY POWER DEPARTMENT OR ON RISER POLE INSTALLATIONS, WHICH WILL BE RIGID STEEL
- 6" CONDUIT SHALL USE RIGID STEEL 90'S AND FITTINGS, WHICH MUST BE PVC WRAPPED.
- RED MARKED RIBBON 18" 24" ABOVE CONDUIT.



PRIMARY CONDUITS TRANSFORMER SECONDARY CONDUIT TRANSFORMER PAD 2* 5 x 8' GROUND ROD



FOR SUBDIVISION DEVELOPMENT



CONSTRUCTION STANDARDS

ELECTRICAL

SINGLE PHASE TYPICAL CONDUIT INSTALLATION

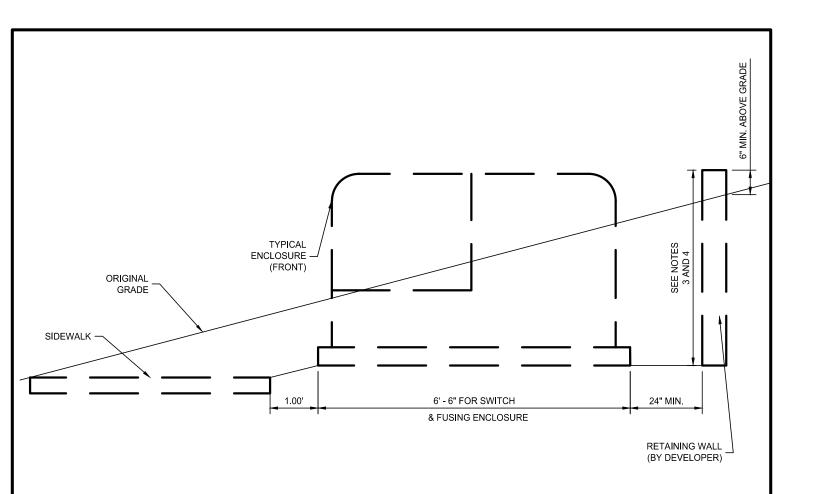
SCALE: NONE

FILE: STND_ELEC_DETS_2022OJECT: 1705-381 DRAWN: SJ 08/17 UPDATED: 3/31/2022

SHEET: PLOTTED:

E1

PREPARED BY:



- WHEN IT BECOMES NECESSARY TO NOTCH-OUT OR FILL A SLOPE TO INSTALL AN ENCLOSURE, THE CLEARED AREA SHOULD BE SUFFICIENT SIZE TO ACCOMMODATE THE ENCLOSURE AND SHORINGS. THE FRONT OF TRANSFORMER PAD SHALL BE PLACED 2" ABOVE SIDEWALK MAX.
- AREA UNDER AND BEHIND PAD MUST BE LEVEL AND COMPACTED. PER TRENCH SPECIFICATION NOTES IN TRENCHING SECTION
- 3. A WALL IS REQUIRED IF THIS DIMENSION IS 12" OR MORE.
- SIDE WALLS ALSO REQUIRED IF THIS DIMENSION IS OVER 18". SIDE WALL TO BE 6" ABOVE EXISTING GRADE AND 18" FROM SIDE OF ENCLOSURE PAD.
- 5. ALL GRADING IS TO BE DONE BY DEVELOPER.
- 6. IF ASSISTANCE IS REQUIRED, CONTACT BEAVER CITY POWER DEPARTMENT.

INSTALLED ON SLOPES

Beaver City

CONSTRUCTION STANDARDS

ELECTRICAL

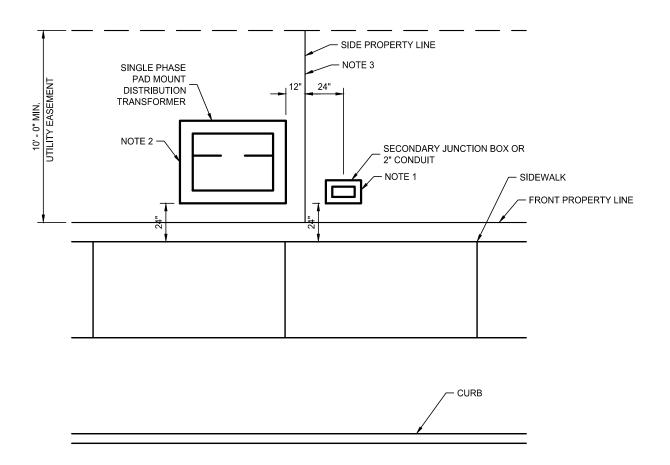
EQUIPMENT EROSION PREVENTION METHOD ENCLOSURES

SCALE: DRAWN: SJ 08/17
NONE CHECK:

FILE: STND_ELEC_DETS_2092OJECT: 1705-381

UPDATED: 3/31/2022 PLOTTED: 3/31/2022

SHEET: E2



- JUNCTION BOX TO BE LOCATED IN AN ADJACENT LOT FROM WHERE THE **TRANSFORMER**
- SECONDARY JUNCTION BOX OR CABLE SWITCHING STATIONS ARE LOCATED. TRANSFORMERS OR OTHER EQUIPMENT FRONTS TO BE INSTALLED THAT THE FRONTS ARE
 - FACING SIDEWALK AND NOT TO BE OBSTRUCTED.
- NO EQUIPMENT SHALL BE MOUNTED ON PROPERTY LINES.
- SPARE CONDUITS SHALL BE PERMANENTLY CAPPED 2" ABOVE FINAL GRADE.
- MAX. SPACING BETWEEN TRANSFORMER AND JUNCTION BOX OR JUNCTION BOX TO JUNCTION: 175' FOR SECONDARY 500' FOR PRIMARY

FRONT LOT LINE CONSTRUCTION



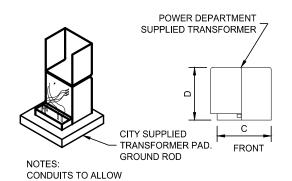
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CONSTRUCTION STANDARDS

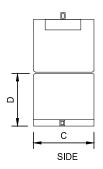
ELECTRICAL

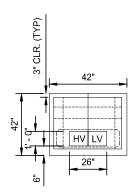
SINGLE PHASE PAD MOUNT TRANSFORMER SCALE:

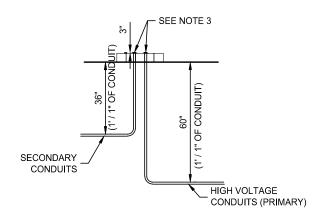




NON-INTERFERENCE OF SECONDARY







NOTES:

- DIMENSIONS TO BE PROPERLY SIZED FOR EACH INDIVIDUAL TRANSFORMER
- TRANSFORMERS CONCRETE PAD MAY BE SUBSTITUTED WITH APPROVED PREFABRICATED CONCAST PAD
- FILL MATERIAL UNDER THE CONCRETE PAD SHALL BE ROADBASE MEETING STATE SPEC AND SHALL BE COMPATED TO 95%. ROADBASE FILL SHALL EXTEND FROM BOTTOM OF TRENCH TO TRANSFORMER PAD.

Beaver City

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CONSTRUCTION STANDARDS

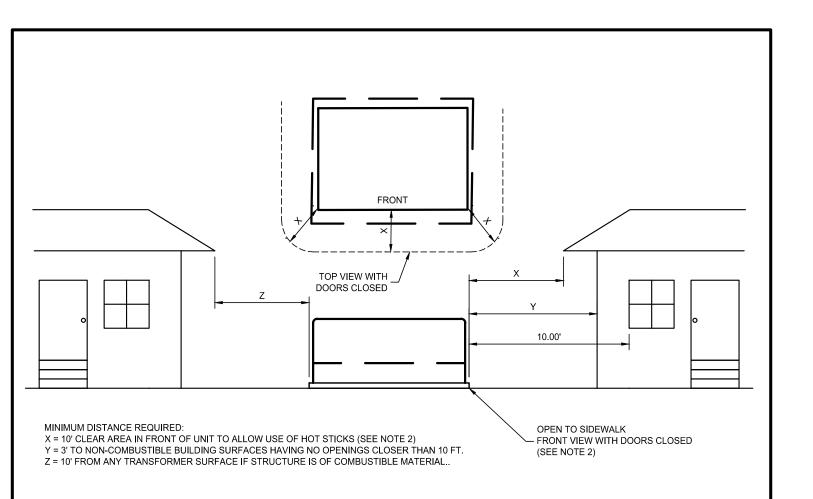
ELECTRICAL

TYPICAL SINGLE PHASE PAD MOUNT TRANSFORMER

SCALE: NONE DRAWN: SJ

STND_ELEC_0 #778-020622T: 1705-381 UPDATED:

SHEET: E4



- 1. CONSULT NATIONAL ELECTRICAL SAFETY CODE, NEC, STATE REQUIREMENTS AND LOCAL BUILDING AND FIRE CODES FOR ADDITIONAL CLEARANCE REQUIREMENTS
- FRONT OF PAD-MOUNTED TRANSFORMER TO BE LOCATED AWAY FROM BUILDING WALLS OR OTHER BARRIERS TO ALLOW FOR SAFE WORKING PRACTICES. IF FRONT OF TRANSFORMER MUST FACE WALL, ALLOW "X" DIMENSIONS FOR WORKING AREA.
- CONSULT POWER DEPT. FOR ADDITIONAL CLEARANCES THAT MAY BE REQUIRED TO BUILDING DOORS, WINDOWS, FIRE ESCAPES, AND AIR VENTS ETC.
- WHERE PAD MOUNTED TRANSFORMER OR OTHER EQUIPMENT IS INSTALLED IN A LOCATION WHERE IT MIGHT BE STRUCK BY A MOTORIZED VEHICLE THE CUSTOMER IS TO INSTALL AND MAINTAIN POWER DEPT. APPROVED BARRIER POSTS TO PROTECT THE EQUIPMENT. (SEE PIPE BOLLARD DETAIL).

SINGLE PHASE AND THREE PHASE INSTALLATIONS



CONSTRUCTION STANDARDS

ELECTRICAL

PAD MOUNTED TRANSFORMER CLEARANCES

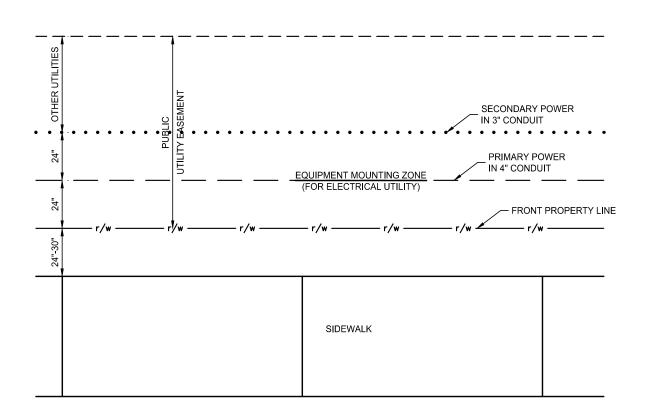
SCALE: NONE

STND_ELEC_0 #789020#27: 1705-381 DRAWN: SJ 08/17 UPDATED: 3/31/2022 PLOTTED:

SHEET:

E5

PREPARED BY:



- NO UTILITIES ALLOWED BETWEEN PUE (STREET SIDE) AND BURIED ELECTRICAL.
- PRIMARY POWER BURY DEPTH = 5' MIN.
- 3. SECONDARY POWER BURY DEPTH = 3' MIN.

FRONT LOT LINE CONSTRUCTION

SHEET:

E6

Beaver City

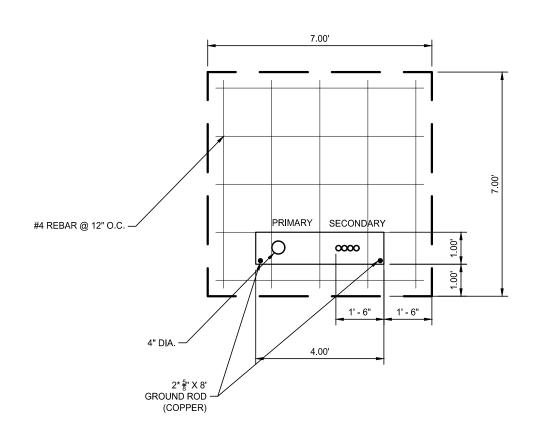
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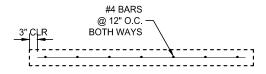
CONSTRUCTION STANDARDS

ELECTRICAL

UNDERGROUND CABLE

SCALE: DRAWN: SJ STND_ELEC_0 EPRSQ20622T: 1705-381 NONE UPDATED:





- CONCRETE TO MEET BEAVER CITY CONCRETE SPECIFICATION CLASS AA (AE) 4,000 PSI MIN.
- 2. PAD DIMENSIONS VARY WITH SIZE OF TRANSFORMER.

Beaver City

CONSTRUCTION STANDARDS

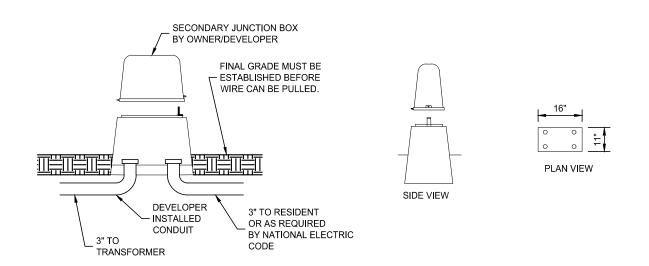
ELECTRICAL

THREE PHASE TRANSFORMER CONCRETE PAD WITHOUT CT RACK

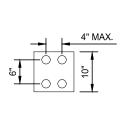
SCALE: NONE

DRAWN: SJ 08/17

SHEET:



FRONT VIEW



PLAN VIEW

3" CABLE CONDUIT FINISHED GRADE 6" ABOVE JUNCTION BOX FURNISHED BY THE POWER DEPARTMENT NOTE 3 36" 36" 3" TO RESIDENT 3" TO **TRANSFORMER**

NOTES:

- THE DEVELOPER IS TO PROVIDE A 3" PVC CONDUIT SYSTEM, LABOR, ETC.
- THE DEVELOPER TO PROVIDE MINIMUM SPACING BETWEEN CONDUITS
- THE DEVELOPER TO SEAL ALL CONDUIT END POINTS WITH PERMANENT CAPS TO PREVENT PLUGGING
- THE DEVELOPER IS RESPONSIBLE FOR TRENCHING AND BACKFILLING IN ACCORDANCE WITH OTHER SECTION OF THIS DOCUMENT.

Beaver City

CONSTRUCTION STANDARDS

ELECTRICAL

TYPICAL SECONDARY JUNCTION BOX

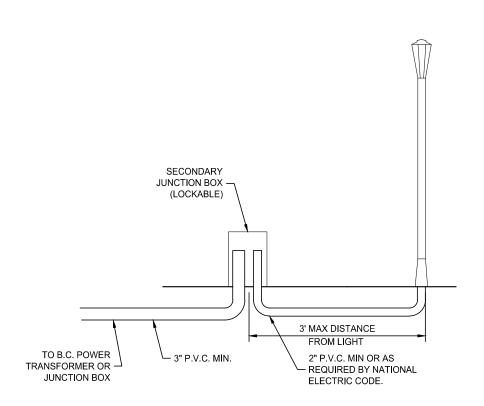
SCALE: NONE DRAWN: SJ

UPDATED:

STND_ELEC_0 #7RSQ20627: 1705-381

SHEET: E8

PREPARED BY:



RESPONSIBILITIES

- -CONDUIT FROM POWER SOURCE TO SECONDARY JUNCTION BOX
- -SECONDARY JUNCTION BOX (MUST BE LOCKABLE)
- -CONDUIT TO LIGHT
- -LIGHT POLE AND BASE
- -DISCONNECT ON LOAD SIDE

NOTES:

- LIGHTING PER BEAVER CITY STREET LIGHT POLICY.
- 2. SEE NOTES ON SHEET E10.

Beaver City

PREPARED BY:

CONSTRUCTION STANDARDS

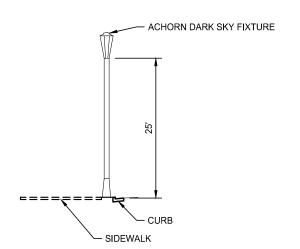
ELECTRICAL

DECORATIVE OR H.O.A. INSTALLED STREET LIGHTING

Jones & DeMille Engineering, Inc.

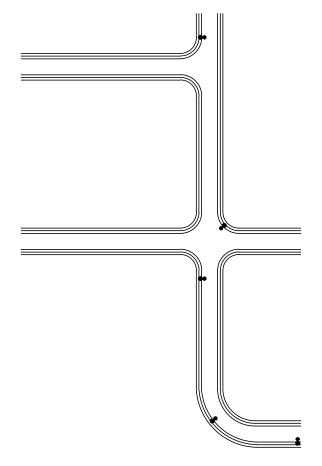


SCALE:





- STREET LIGHTS INSTALLED WITH 400 FT. MAXIMUM SEPARATION OR MIN. AT EACH INTERSECTION.
- 2. STREET LIGHTS TO BE LOCATED NEAR INTERSECTIONS
- 3. LIGHTING LAYOUT TO BE APPROVED BY BEAVER CITY POWER DEPARTMENT
- 4. THE CONTRACTOR / DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE STREET LIGHTING CONDUIT SYSTEM (2 INCH DIAMETER) EXTENDED FROM TRANS/J BOX TO LIGHTING FIXTURES.
- ACHORN DARK SKY REQ'D. PROVIDE SUBMITTAL TO BEAVER CITY FOR APPROVAL.



Beaver City

CONSTRUCTION STANDARDS

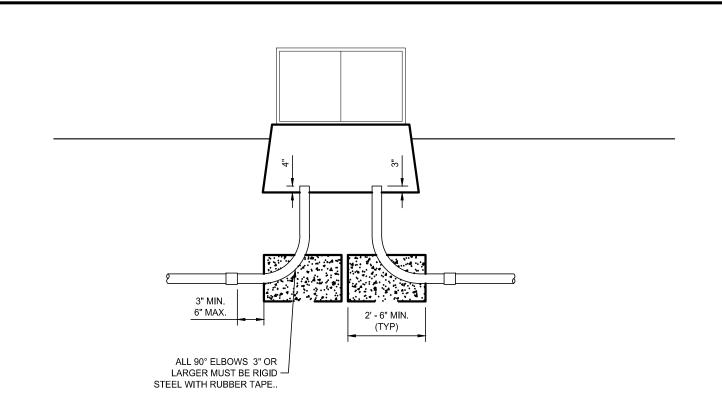
ELECTRICAL

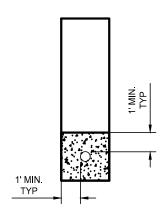
TYPICAL RESIDENTIAL STREET LIGHT LAYOUT

SCALE: NONE

DRAWN: SJ 08/17 FILE: ST
CHECK: UPDATED:

1 SHEET: E10





NOTES: CONCRETE TO MEET BEAVER CITY CONCRETE SPECIFICATION CLASS B (AE) 4,000 PSI MIN.

Beaver City

CONSTRUCTION STANDARDS

ELECTRICAL

90° RIGID ELBOW

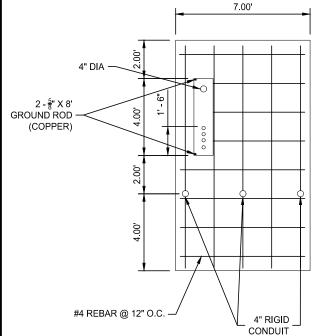
SCALE:

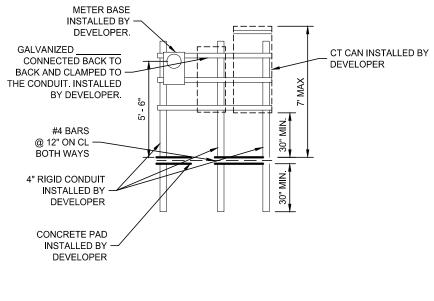
DRAWN: SJ 08/17 NONE

STND_ELEC_DEPROQUEZT: 1705-381 UPDATED:

SHEET: E11

PREPARED BY:





- CONCRETE TO MEET BEAVER CITY CONCRETE SPECIFICATION CLASS AA (AE) 4,000 PSI MIN.
- 2. PAD DIMENSIONS VARY WITH SIZE OF TRANSFORMER.

Beaver City

CONSTRUCTION STANDARDS

ELECTRICAL

THREE PHASE TRANSFORMER PAD W/ METERING STATION

SCALE: NONE

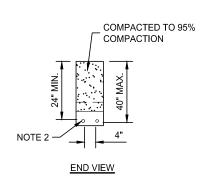
 DRAWN:
 SJ
 08/17
 FILE:
 STND_ELEC_
 \$\pm\$ PR\$Q\text{2022}\$ 1705-381

 CHECK:
 UPDATED:
 3/31/2022
 PLOTTED:
 3/31/2022

SHEET:

E12

PREPARED BY:



LEGEND



SAND UNDERFILL (AS REQUIRED)

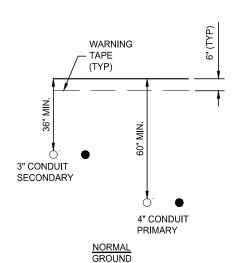


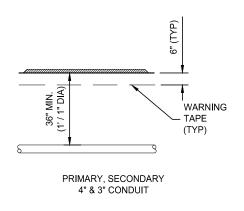
SAND OR SOIL (AS REQUIRED)

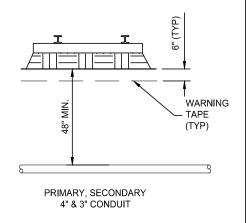


SAND, STRUCTURAL FILL, OR RIBBON (AS REQUIRED)









<u>UNDER</u> PAVED SURFACE

<u>UNDER</u> RAILROAD

NOTES:

- 3" CONDUIT TO BE INSTALLED AT THE SAME DEPTH AS SECONDARY
- WHERE SECONDARY IS PRESENT, ELSE AT THE PRIMARY CONDUIT DEPTH.
- 24" MIN. SPACING REQUIRED.

Beaver City

CONSTRUCTION STANDARDS

ELECTRICAL

TYPICAL CONDUIT BURIAL

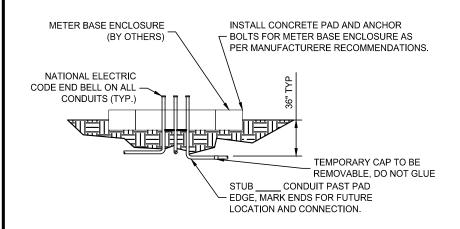
SCALE: NONE

DRAWN: SJ

STND_ELEC_0 #789020622T: 1705-381 UPDATED:

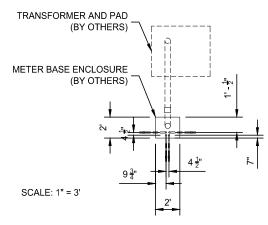
SHEET: E13

PREPARED BY:

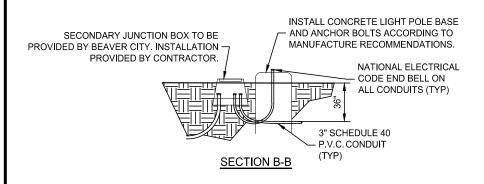


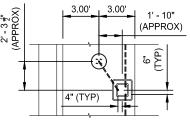
SECTION A-A

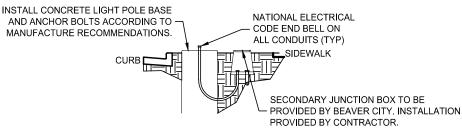
CONDUIT LAYOUT



TYPICAL METER BASE **ENCLOSURE PAD INSTALLATION**







SECTION C-C

TYPICAL LIGHT POLE BASE AND JUNCTION BOX INSTALLATION

SHEET:

E14

Beaver City

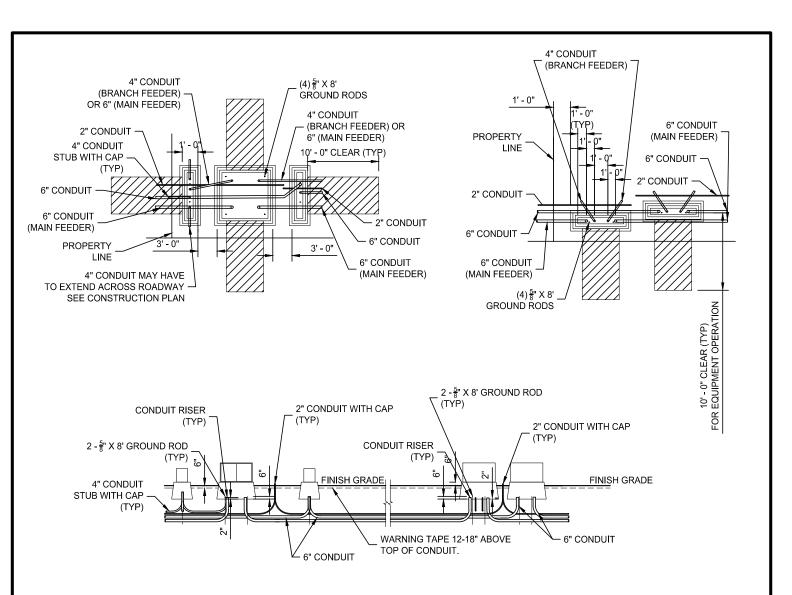
PREPARED BY:

CONSTRUCTION STANDARDS

ELECTRICAL

STREET LIGHT CONDUIT LAYOUT

STND_ELEC_0 EPR 02/05/2T: 1705-381 SCALE: DRAWN: SJ NONE UPDATED:



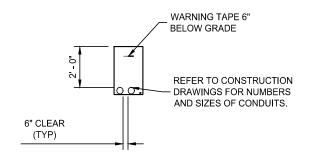
PAD MOUNTED SWITCHGEAR INSTALLATION

OADBREAK JUNCTION ENCLOSURE INSTALLATION

NOTES:

PREPARED BY

- SECTIONALIZER ENCLOSURE AND BASE WILL BE PROVIDED BY BEAVER CITY 1. AND INSTALLED BY DEVELOPER
- SWITCHGEAR AND BASE WILL BE PROVIDED BY BEAVER CITY AND INSTALLED BY THE DEVELOPER
- THE DEVELOPER IS TO PROVIDE AND INSTALL TRANSFORMER PADS
- THE DEVELOPER IS TO PROVIDE ALL GROUND RODS AND SUBSEQUENT MATERIALS FOR COMPLETE INSTALLATION AS SHOWN.
- SEE NOTE 5 ON SHEET E3.



SHEET

E15

TYPICAL CONDUIT TRENCH SECTION

Beaver City

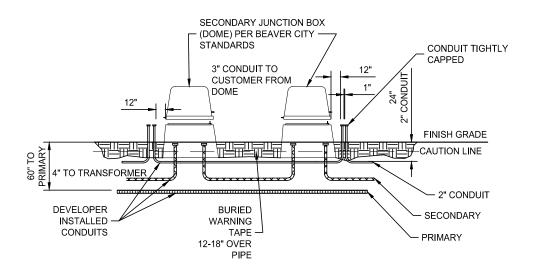
CONSTRUCTION STANDARDS

ELECTRICAL

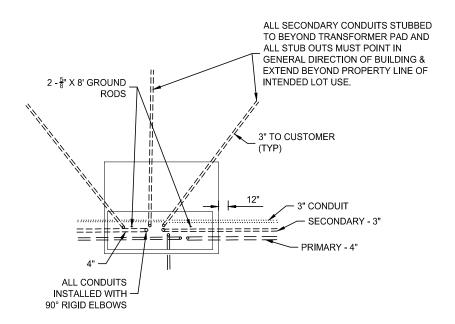
SWITCH GEAR & SECTIONALIZER LAYOUT

STND_ELEC_0 #789020#27: 1705-381 SCALE: DRAWN: NONE UPDATED:





SECONDARY LAYOUT



PRIMARY TRANSFORMER

LAYOUT LOOP TRANSFORMER SHOWN

SCALE:

NONE

1. SEE NOTE 5 ON SHEET E3.

Beaver City

PREPARED BY:

CONSTRUCTION STANDARDS

ELECTRICAL

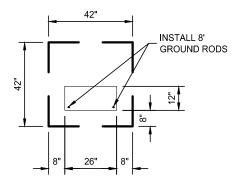
JUNCTION BOX LAYOUT

FILE: STND_ELEC_DETS_2028OJECT: 1705-381 DRAWN: UPDATED: 3/31/2022

SHEET:

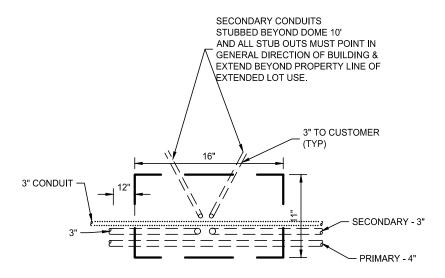
E16





TRANSFORMER PAD

PAD MAY BE CONCRETE OR FORMED PLASTIC



SECONDARY DOME

CONDUIT EXIT LAYOUT

NOTES:

1. SEE NOTE 3 ON SHEET E3.

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Duno	VI.	City	

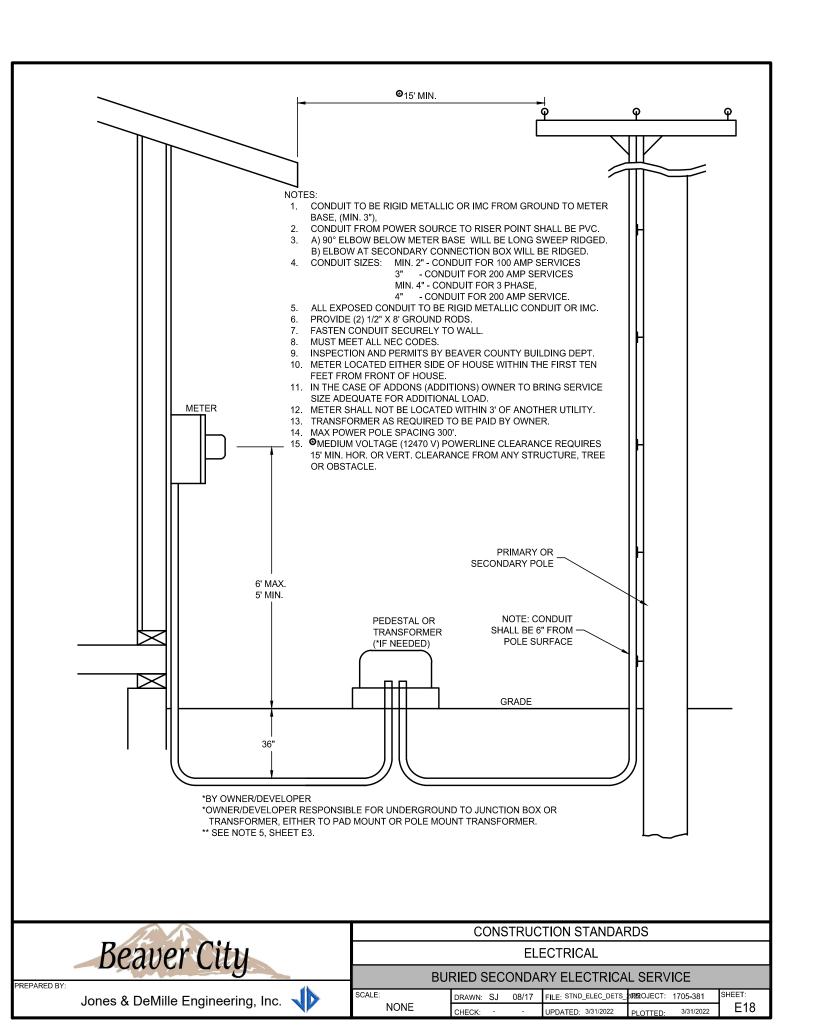
ELECTRICAL

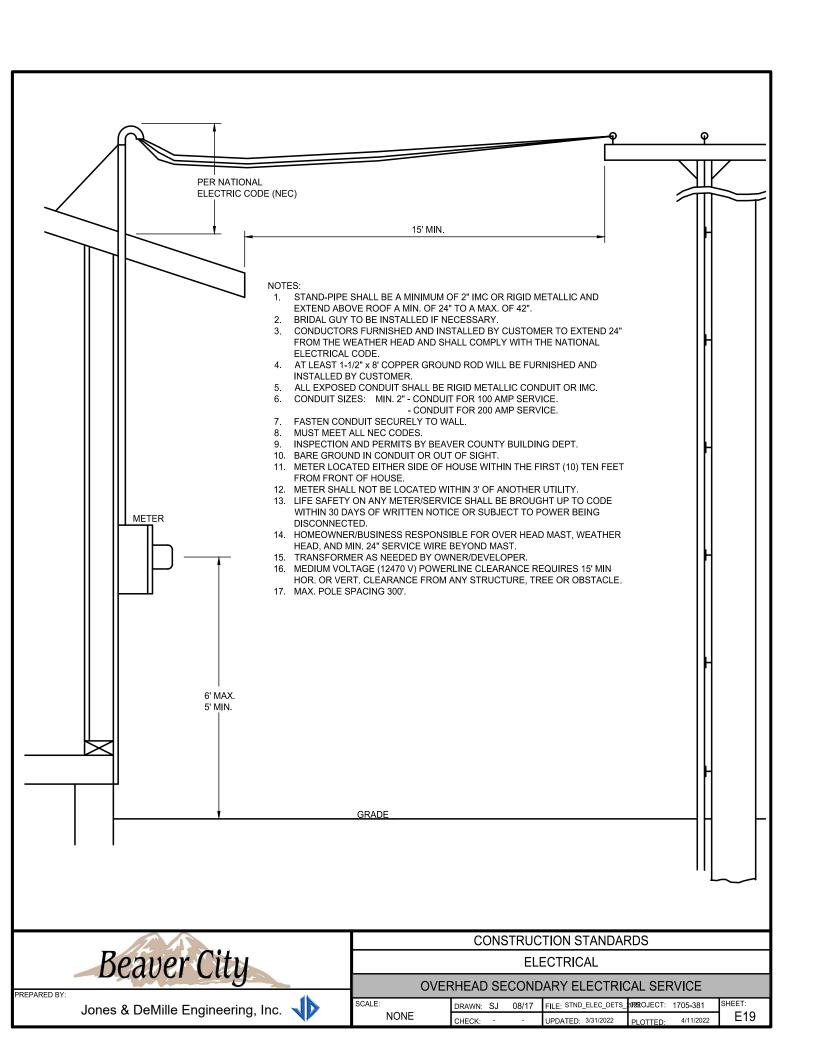
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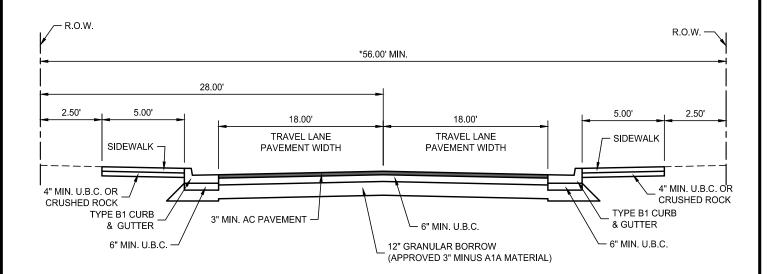
E17

TRANSFORMER LAYOUT SCALE:

DRAWN: SJ FILE: STND_ELEC_DETS_2022OJECT: 1705-381 NONE UPDATED: 3/31/2022







- SEE BEAVER CITY AGGREGATE BASE COURSE AND ASPHALT PAVING SPECIFICATIONS.
- 2. SEE BEAVER CITY CONCRETE SPECIFICATIONS.
- 3. SEE PAVEMENT EDGE DETAIL ON R12.
- 4. *RIGHT-OF-WAY WIDTH VARIES.
- GEOGRID MAY BE REQ'D (BEAVER CITY TO DETERMINE LOCATION)

Beaver City

CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

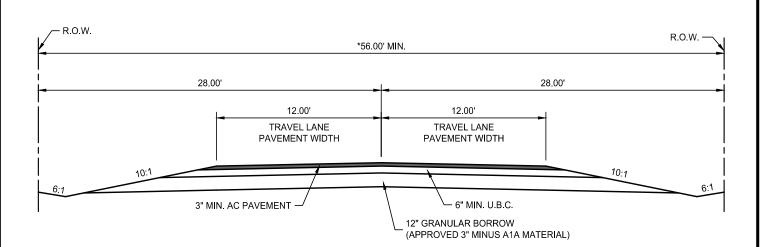
TYPICAL ROADWAY SECTION W/ CURB, GUTTER & SIDEWALK

SCALE: NONE

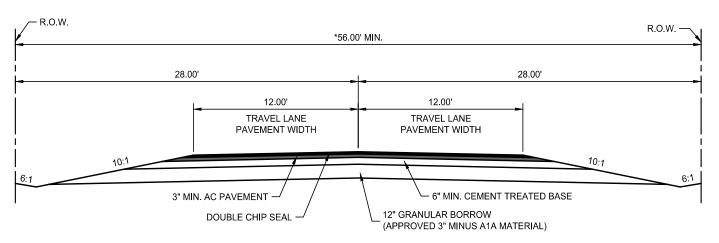
DRAWN: SJ 08/

FILE: STND_DETS_2022 PROJECT: 1705-381
UPDATED: 3/31/2022 PLOTTED: 3/31/2022

SHEET:



- SEE BEAVER CITY AGGREGATE BASE COURSE AND ASPHALT PAVING SPECIFICATIONS.
- 2. *RIGHT-OF-WAY WIDTH VARIES
- 3. GEOGRID MAY BE REQ'D (BEAVER CITY TO DETERMINE LOCATION)



NOTE:

- 1. CEMENT TREATED BASE WILL NEED TO MEET 300 TO 400 PSI.
- 2. *RIGHT-OF-WAY WIDTH VARIES
- 3. GEOGRID MAY BE REQ'D (BEAVER CITY TO DETERMINE LOCATION)

Beaver City

CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

TYPICAL ROADWAY SECTION W/OUT CURB, GUTTER & SIDEWALK

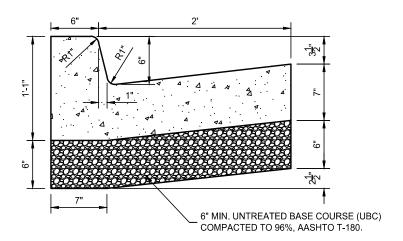
SCALE: NONE

DRAWN: SJ 08/17

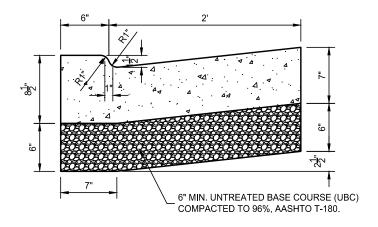
FILE: STND_DETS_2022PROJECT: 1705-381
UPDATED: 3/31/2022 PLOTTED: 3/31/2022

SHEET:

PREPARED BY:



STANDARD CURB



DRIVE DEPRESSION CURB

NOTES:

- OVER BUILD UBC MIN. 12" BEYOND CURB AND GUTTER REQ'D.
- SEE STANDARD CONCRETE JOINTS ON SHEET R11.
- SEE BEAVER CITY CONCRETE SPECIFICATIONS.

Bea	ver	City

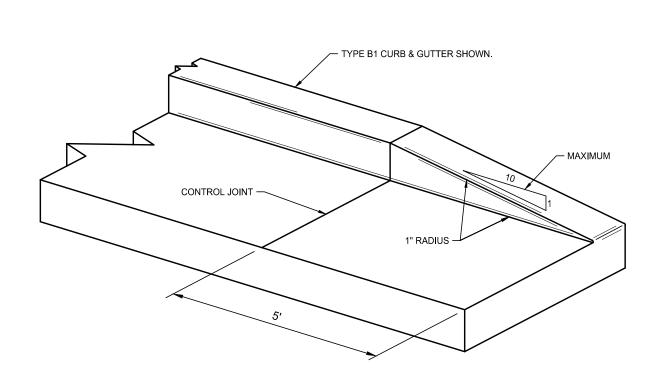
PREPARED BY:

CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

TYPE B1 CURB & GUTTER

SHEET: R3



Beaver City

CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

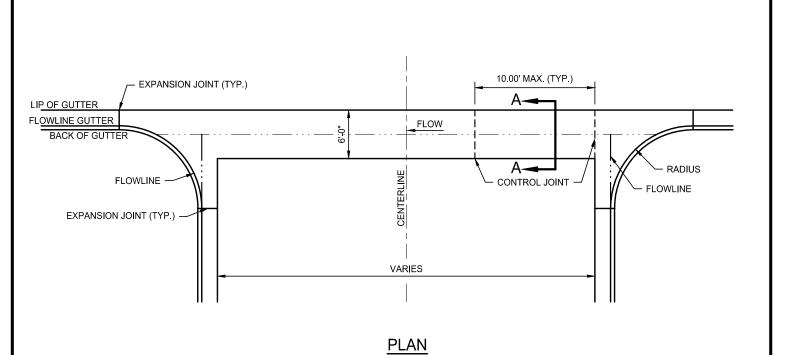
CURB & GUTTER - TAPERED END

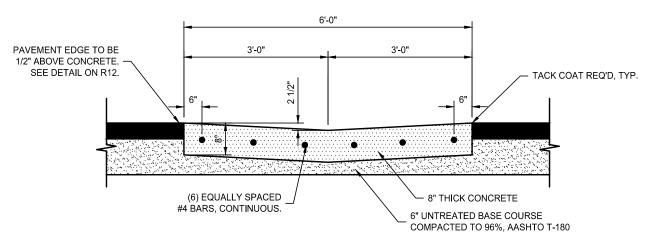
SCALE: DRAWN: SJ 08/17 FILE: NONE CHECK: UPDA

FILE: STND_DETS_2022 PROJECT: 1705-381

UPDATED: 3/31/2022 PLOTTED: 3/31/2022

SHEET: R4



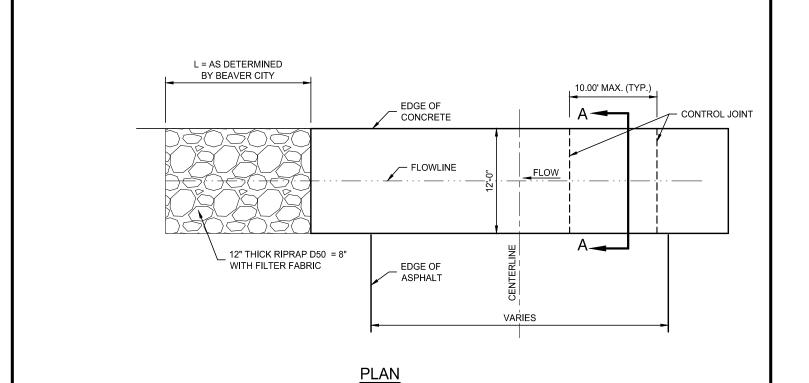


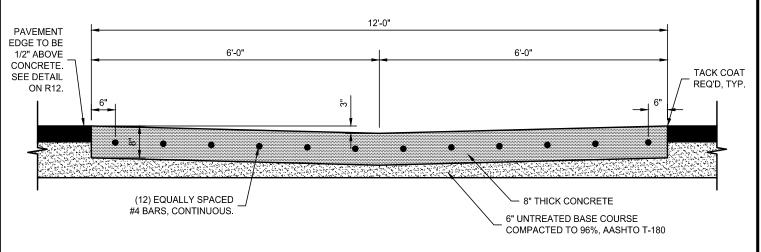
SECTION A-A

NOTES:

- 1. CONSTRUCT CROSS GUTTER TO DRAIN WITHOUT PONDING
- 2. SEE STANDARD CONCRETE JOINTS ON R11.
- 3. SEE BEAVER CITY CONCRETE SPECIFICATIONS.

PREPARED BY: CONSTRUCTION STANDARDS ROAD CONSTRUCTION 6' CONCRETE CROSS GUTTER SCALE: NONE DRAWN: SJ 08/17 FILE: STND_DETS. 1028C0JECT: 1705-381 SHEET: CHECK: UPDATED: 3/31/2022 PLOTTED: 3/31/2022





SECTION A-A

NOTES:

- 1. CONSTRUCT CROSS GUTTER TO DRAIN WITHOUT PONDING
- 2. SEE STANDARD CONCRETE JOINTS ON R11.
- 3. SEE BEAVER CITY CONCRETE SPECIFICATIONS.

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PREPARED BY:

CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

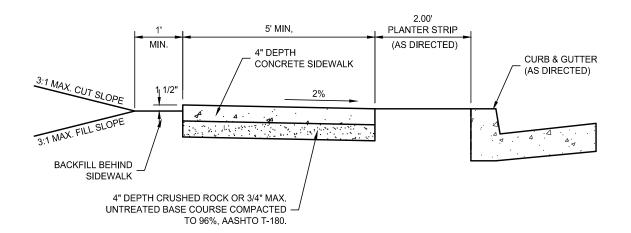
12' CONCRETE CROSS GUTTER

Jones & DeMille Engineering, Inc.

SCALE: NONE DRAWN: SJ 08/17 | FILE: STND_DETS_2022 | PROJECT: 1705-381 UPDATED: 3/31/2022

R6

SHEET:



- 1. AT DRIVEWAYS, CONSTRUCT 6" DEPTH CONCRETE SLAB FOR SIDEWALK THROUGH TRANSITION SECTIONS.
- 2. SEE STANDARD CONCRETE JOINTS ON R11.
- 3. SEE BEAVER CITY CONCRETE SPECIFICATIONS.

Beaver City

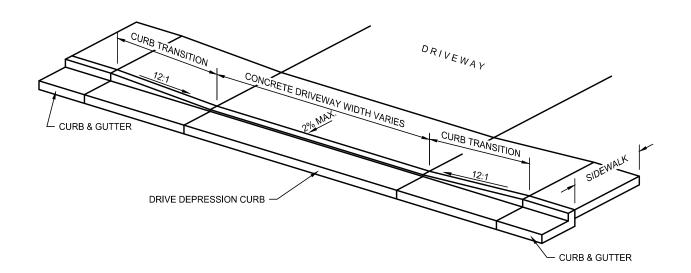
PREPARED BY:

CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

CONCRETE SIDEWALK WITH PLANTER STRIP SCALE:

Jones & DeMille Engineering, Inc.



- CURB TRANSITIONS AND DRIVEWAY TO BE MIN. 6" THICK CONCRETE.
- SEE STANDARD CONCRETE JOINTS ON R11.

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PREPARED BY:

CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

UPDATED: 3/31/2022

SHEET:

R8

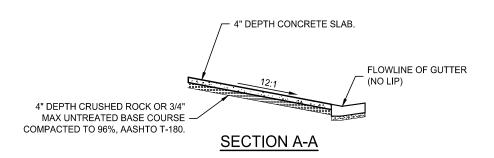
DRIVE DEPRESSION & TRANSITION

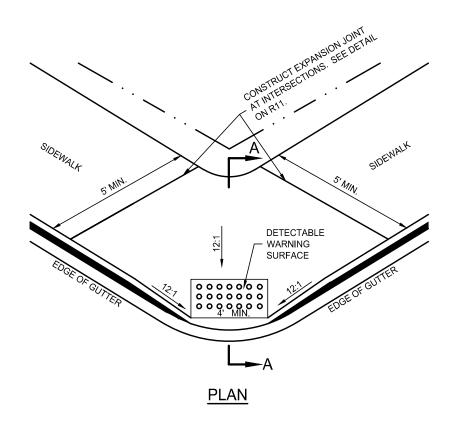
DRAWN: SJ 08/17 SCALE: FILE: STND_DETS_2022 PROJECT: 1705-381

Jones & DeMille Engineering, Inc.



NONE





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CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

CURB RAMP

DRAWN: SJ 08/17

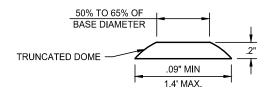
SCALE:

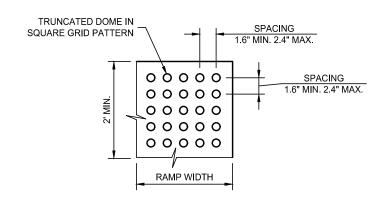
NONE

STND_DETS_202ROJECT: 1705-381 UPDATED:

SHEET:

R9





CURB RAMP SLOPE TABLE			
	ITEM	MAX. RUNNING SLOPE * MAX. CROSS SLOP	
(L)	LANDING	2% (1V:50H)	2% (1V:50H)
®	RAMP	8.33% (1V:12H)	2% (1V:50H)
T	TRANSITION	5% (1V:20H) (a)	2% (1V:50H)
	SIDEWALK		2% (1V:50H)
	FLARE	10% (1V:10H)	

- RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL, WHILE CROSS SLOPE IS PERPENDICULAR TO PEDESTRIAN TRAVEL.
- TRANSITION RUNNING SLOPE NEEDS TO BE CONSTANT ACROSS ENTIRE CURB CUT, WARP GUTTER PAN TO MEET REQUIRED TRANSITION SLOPE AT CURB CUT.

- 1, CONFIGURATION OF RAMPS AND LANDINGS MAY VARY TO FIT SITE CONDITIONS, BUT MUST MEET DIMENSION AND SLOPE REQUIREMENTS.
- 2. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF RAMP. SEE DETAIL FOR DETECTABLE WARNING SURFACE DIMENSIONS.
- 3. LOCATE DETECTABLE WARNING SURFACE SO THAT THE EDGE NEAREST THE STREET IS 6 OR 8 INCHES FROM THE CURB LINE.
- 4. PROVIDE DETECTABLE WARNING SURFACE THAT CONTRASTS WITH ADJACENT WALKING SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. ACCEPTABLE COLORS INCLUDE: RED, BLACK OR YELLOW.
- 5. CURB RAMPS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.



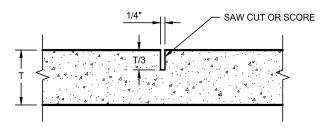
PREPARED BY:

CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

DETECTABLE WARNING SURFACE SCALE:

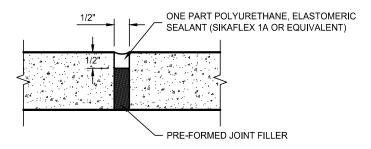




CONTROL JOINT

NOTES:

- 1. FOR FLATWORK, PLACE AT SPACING EQUAL TO SLAB WIDTH, BUT NOT GREATER THAN 12'.
- 2. FOR CURB & GUTTER AND CROSS GUTTER PLACE AT 10' INTERVALS.



EXPANSION JOINT

NOTES:

- FOR FLATWORK, PLACE AT MAX. 50' INTERVALS.
- FOR CURB & GUTTER, PLACE AT 50' INTERVALS, EXCEPT WHEN USING SLIP FORM MACHINE, PLACE AT BEGINNING & END OF EACH CONTINUOUS RUN.
- USE FOR CURB & GUTTER CROSS GUTTER, AND SIDEWALK.

Beaver City

PREPARED BY:

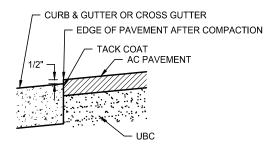
CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

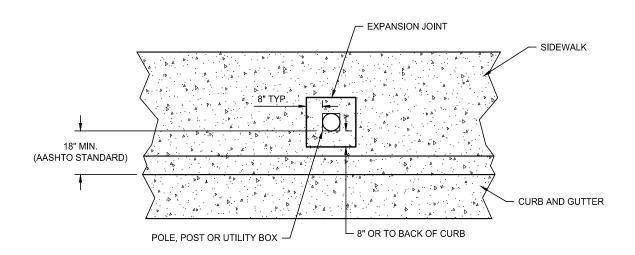
STANDARD CONCRETE JOINTS

Jones & DeMille Engineering, Inc.

SCALE:



PAVEMENT EDGE DETAIL



TYPICAL EXPANSION JOINT AROUND JOINTS

NOTE: SEE EXPANSION JOINT DETAIL ON R11.

Beaver City

CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

EXPANSION JOINTS AND PAVEMENT EDGES

SCALE: NONE

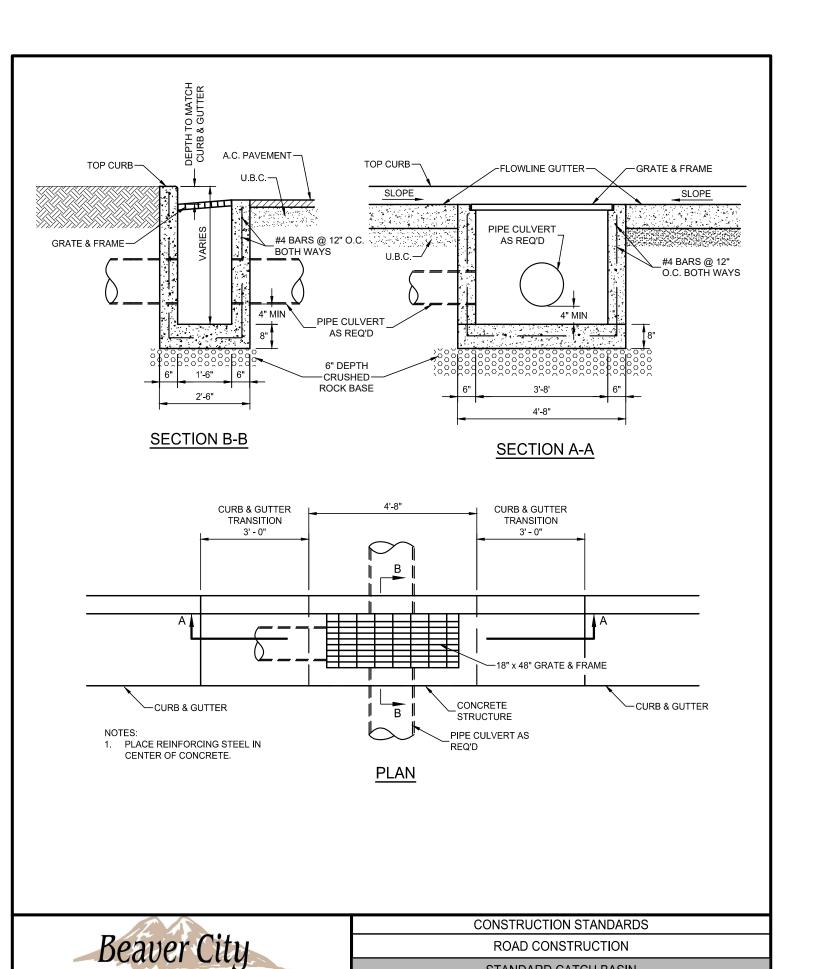
DRAWN: SJ 08/17

FILE: STND_DETS_2022 PROJECT: 1705-381

UPDATED: 3/31/2022 PLOTTED: 3/31/2022

SHEET:
R12

PREPARED BY



Jones & DeMille Engineering, Inc.

PREPARED BY:

STANDARD CATCH BASIN

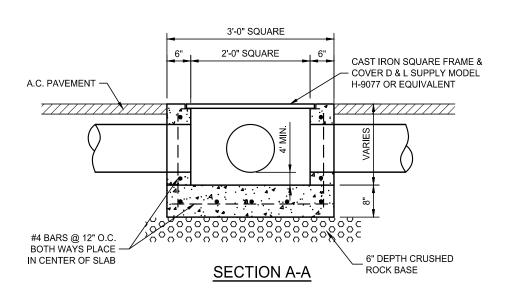
10

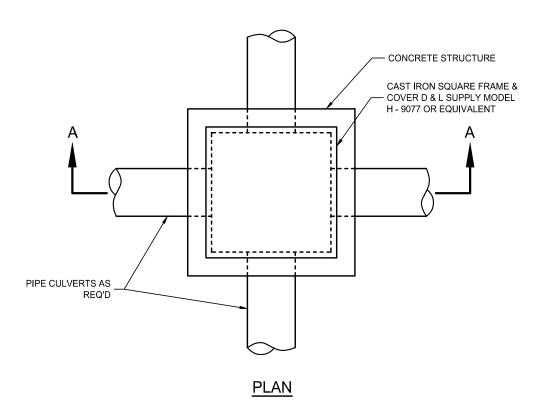
SCALE: NONE

DRAWN: SJ 08/17 FILE CHECK: UPD

FILE: STND_DETS_2022 PROJECT: 1705-381
UPDATED: 3/31/2022 PLOTTED: 3/31/2022

R13





Beaver City

PREPARED BY:

CONSTRUCTION STANDARDS

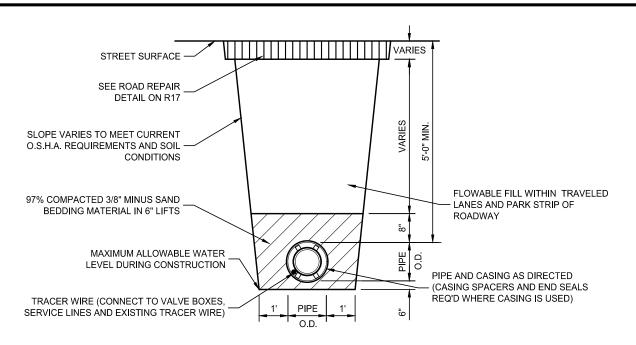
ROAD CONSTRUCTION

STANDARD JUNCTION BOX

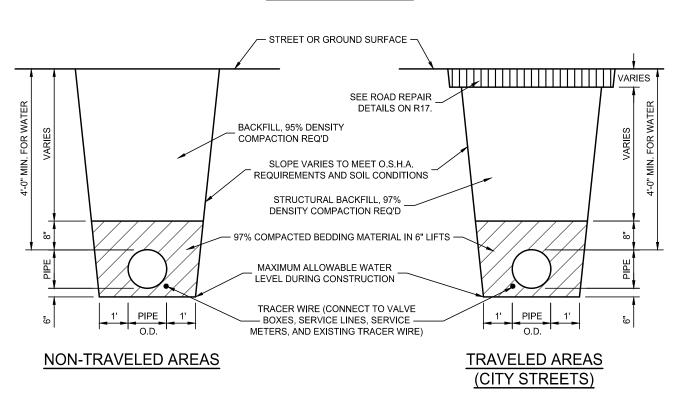
SCALE: DRAWN: SJ 08/17 FILE: ST

NONE

FILE: STND_DETS_2022 PROJECT: 1705-381
UPDATED: 3/31/2022 PLOTTED: 3/31/2022



TRAVELED AREAS (STATE HIGHWAYS



Beaver City

PREPARED BY:

CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

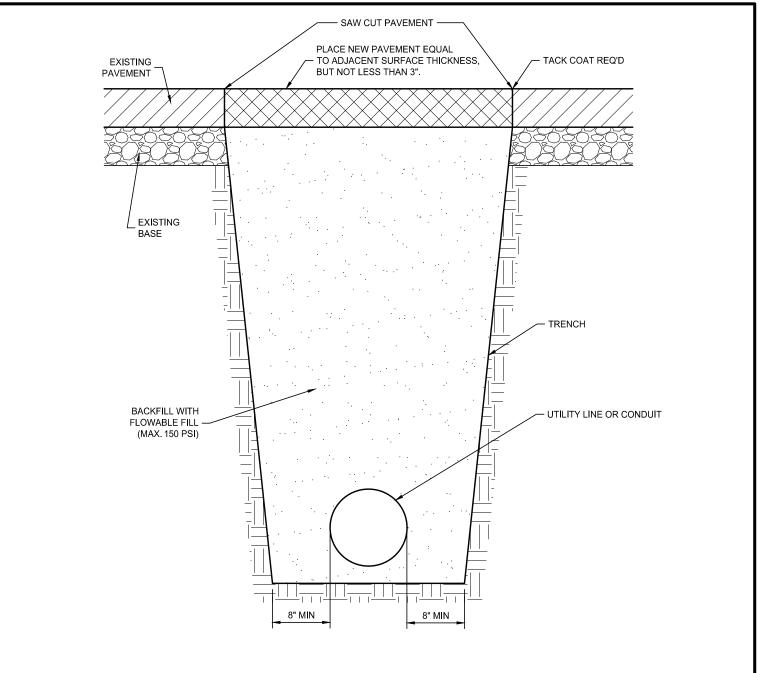
UPDATED: 3/31/2022

UTILITY TRENCH DRAWN: SJ 08/17 FILE: STND_DETS_2022

PROJECT: 1705-381 SHEET: R15

SCALE:

NONE



1. DO NOT PLACE NEW PAVEMENT OR PERMIT VEHICULAR TRAFFIC OVER TRENCH FOR AT LEAST 72 HOURS AFTER PLACING FLOWABLE FILL.
2. IF NEW PAVEMENT SURFACE WILL NOT BE PLACED WITHIN 7 DAYS AFTER TRENCHING, BACKFILL WITH FLOWABLE TO MATCH ELEVATION OF EXISTING PAVEMENT. REMOVE FLOWABLE FILL AS REQUIRED TO PLACE NEW PAVEMENT.
3. BEAVER CITY INSPECTION REQ'D. NOTIFY BEAVER CITY MIN. 24 HRS. PRIOR TO PLACING CONCRETE.



CONSTRUCTION STANDARDS

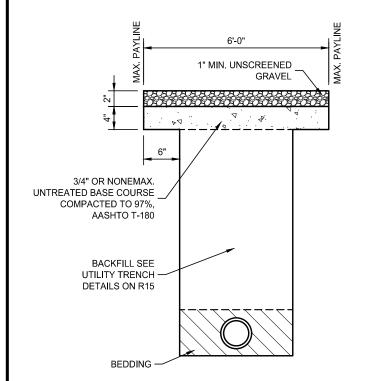
ROAD CONSTRUCTION

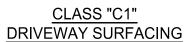
UTILITY TRENCH WITH FLOWABLE FILL

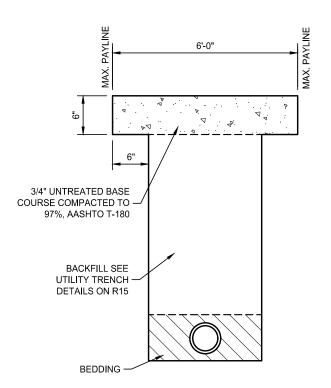
SCALE: DRAI

DRAWN: SJ 08/17 FILE: S

FILE: STND_DETS_2022 PROJECT: 1705-381
UPDATED: 3/31/2022 PLOTTED: 3/31/2022







CLASS "C2" GRAVEL SURFACING

- PAYMENT FOR H1 INCLUDES ASPHALT CONCRETE PAVEMENT. FLOWABLE FILL WILL BE PAID SEPERATE.
- MAXIMUM PAYLINE WIDTH MAY INCREASE FOR BORE PITS.

NONE

Beaver City

PREPARED BY:

CONSTRUCTION STANDARDS

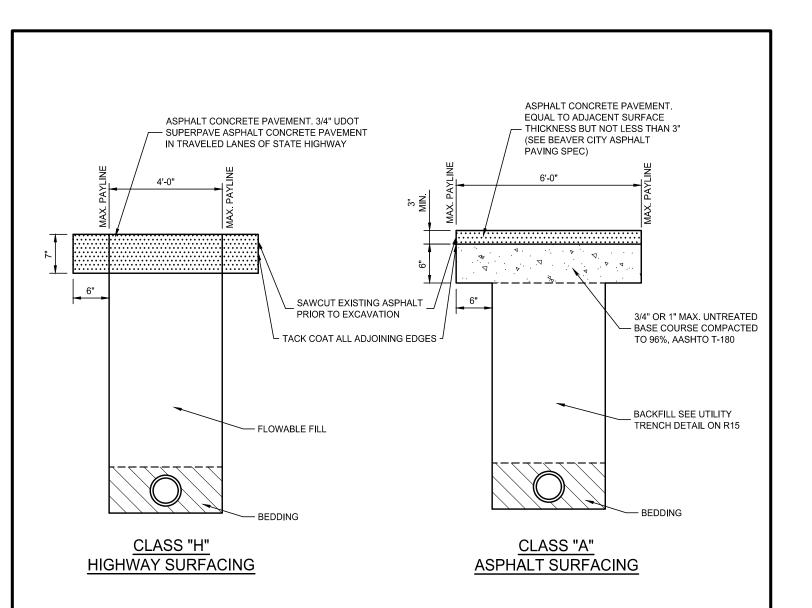
ROAD CONSTRUCTION

ROADWAY REPAIR

SCALE: DRAWN: SJ 08/17

FILE: STND_DETS_2022 PROJECT: 1705-381 UPDATED: 3/31/2022

SHEET: R17



- PAYMENT FOR H1 INCLUDES ASPHALT CONCRETE PAVEMENT.
 - FLOWABLE FILL WILL BE PAID SEPERATE.
- MAXIMUM PAYLINE WIDTH MAY INCREASE FOR BORE PITS.

Beaver City

CONSTRUCTION STANDARDS

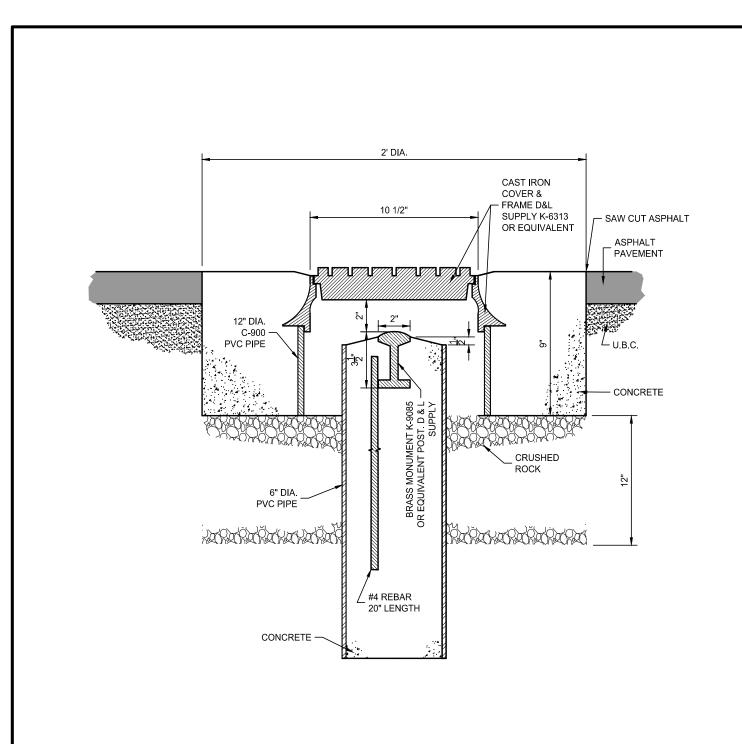
ROAD CONSTRUCTION

SHEET:

R18

ROADWAY REPAIR

SCALE: DRAWN: SJ 08/17 FILE: STND_DETS_2022 PROJECT: 1705-381 NONE UPDATED: 3/31/2022





CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

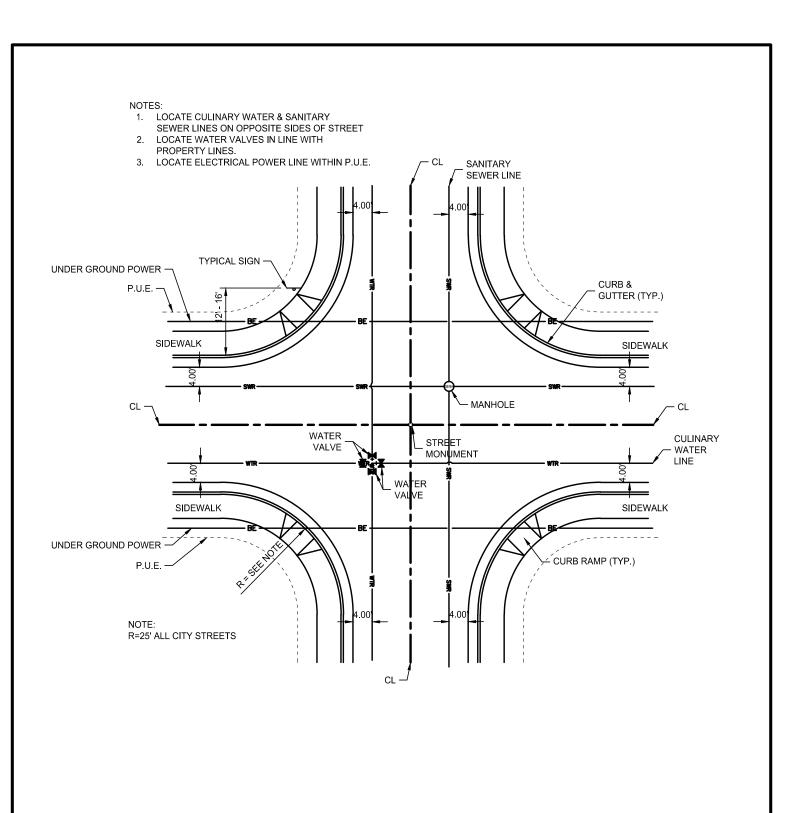
STANDARD STREET MONUMENT

SCALE: DRAWN: SJ NONE

08/17 STND_DETS_202ROJECT: 1705-381 UPDATED:

SHEET: R19

PREPARED BY:





CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

STREET INTERSECTION & UTILITY LOCATION

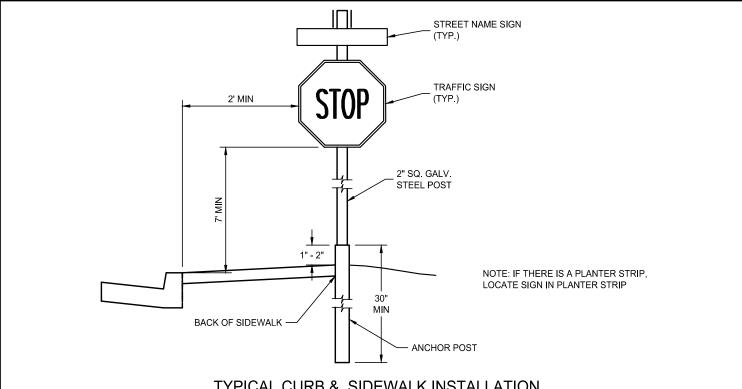
SCALE: NONE

DRAWN: SJ 08

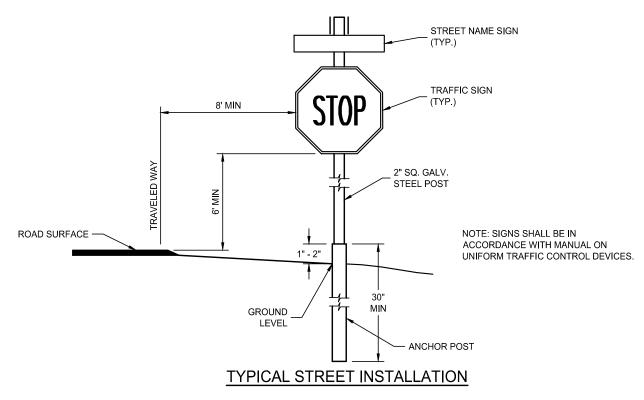
FILE: STND_DETS_2022 PROJECT: 1705-381
UPDATED: 3/31/2022 PLOTTED: 3/31/2022

SHEET:

PREPARED BY:



TYPICAL CURB & SIDEWALK INSTALLATION



CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

STANDARD SIGN AND POST

SCALE: NONE DRAWN: SJ 08/17

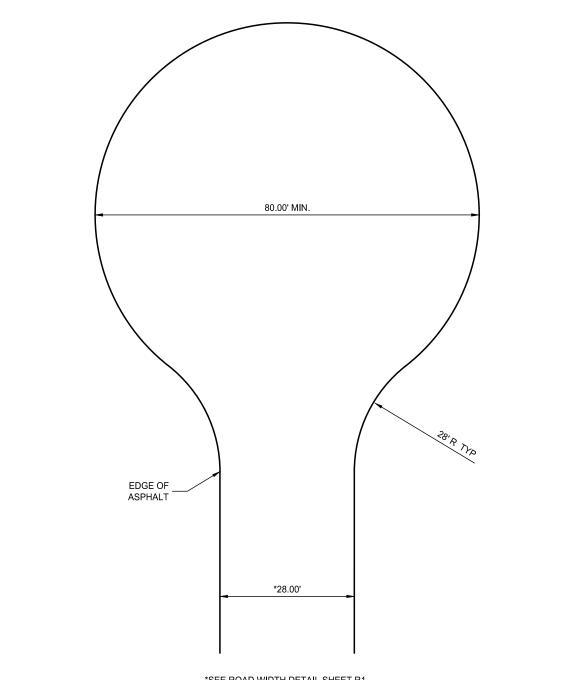
FILE: STND_DETS_2022 PROJECT: 1705-381 UPDATED: 3/31/2022

SHEET: R21

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*SEE ROAD WIDTH DETAIL SHEET R1.

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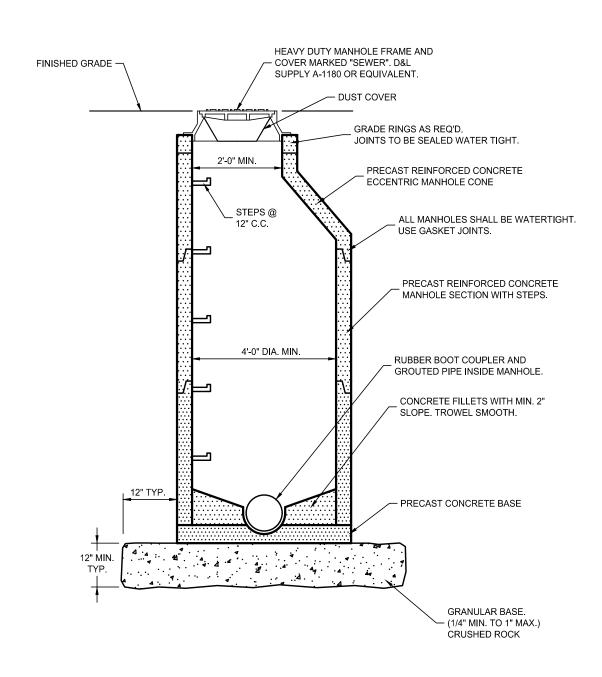
PREPARED BY:

CONSTRUCTION STANDARDS

ROAD CONSTRUCTION

RECOMMENDED TURNAROUND SCALE:

Jones & DeMille Engineering, Inc.



- WHEN MANHOLE IS WITHIN PAVED STREET,
- CONSTRUCT CONCRETE COLLAR, SEE S3.
- MAX. DISTANCE BETWEEN MANHOLE IS 480'.
- MIN. SLOPE ON 8"Ø MAINLINE IS 0.34%. DESIGN 0.5% TO 1.0%. MAX. 4%.

SCALE:

1/2		
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CONSTRUCTION STANDARDS

SEWER STANDARD DETAILS

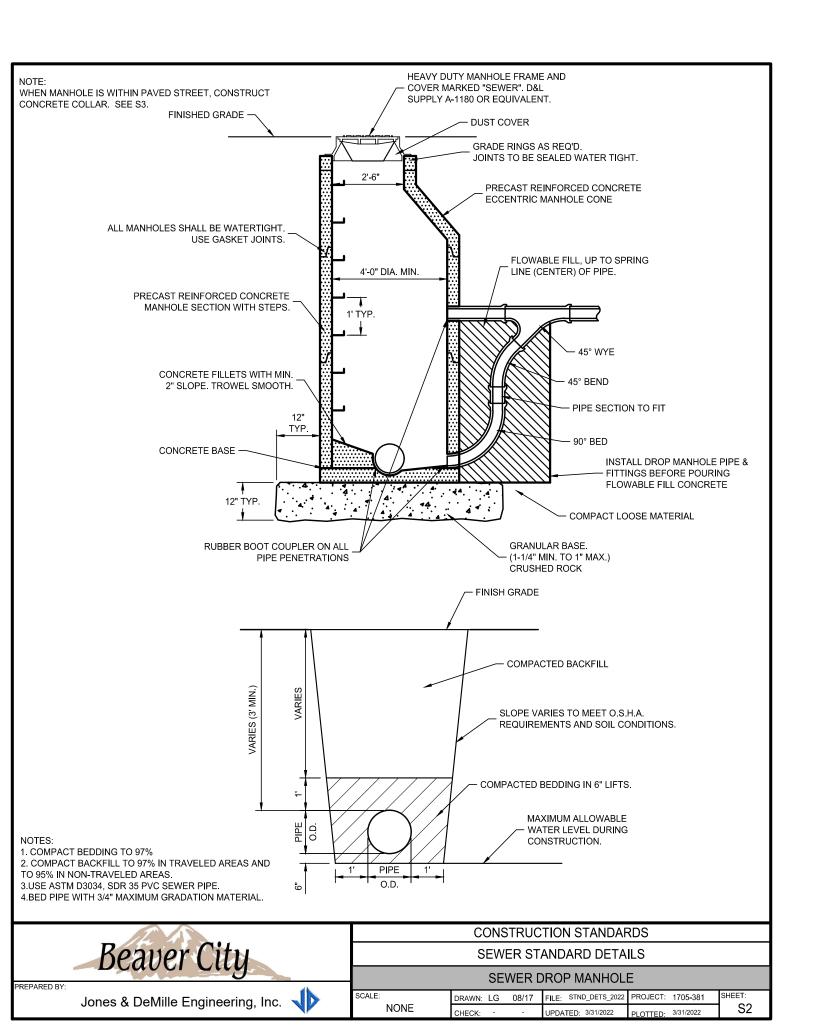
SEWER MANHOLE

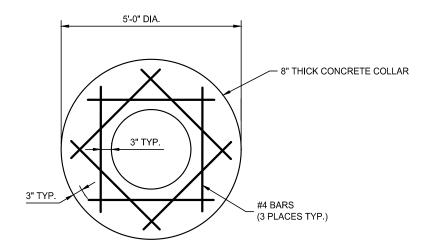
SHEET:

S1

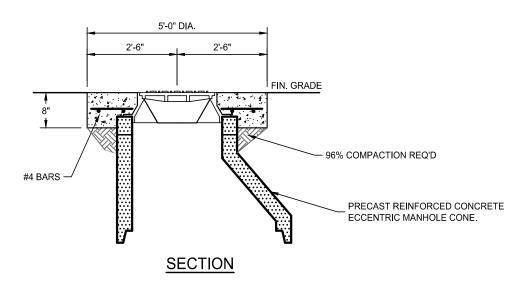
DRAWN: LG FILE: STND_DETS_2022 PROJECT: 1705-381 NONE UPDATED: 3/31/2022

PREPARED BY:





<u>PLAN</u>



- USE GRADE RINGS AS NECESSARY TO ARRIVE AT REQ'D FINISH GRADE.
- CONCRETE COLLAR REQ'D FOR MANHOLES WITHIN PAVED STREETS.
- SCRATCH DIRECTION ARROW IN CONCRETE COLLAR.

SCALE:

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PREPARED BY:

CONSTRUCTION STANDARDS

SEWER STANDARD DETAILS

SHEET:

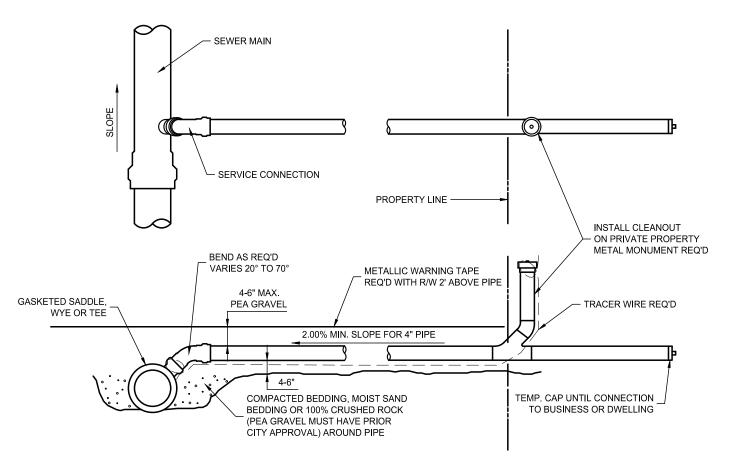
S3

MANHOLE CONCRETE COLLAR



EXISTING SEWER MAINLINE W/ SERVICE LATERAL CONNECTION

- SUBMIT PROPOSED SADDLE / CONNECTION DETAIL TO BEAVER CITY FOR APPROVAL.
- CONTRACTOR TO PROVIDE FERNCO SADDLE TO INSERTA TEE TO CONNECT TO EXISTING MAINLINE
- INSERTA TEE REQ'D FOR PVC (OR APPROVED EQUAL)
- FERNCO SADDLE FOR TRANSIT PIPE 22



NOTES:

- PRIVATE PROPERTY OWNER RESPONSIBLE FOR INSTALLATION & MAINTENANCE OF SEWER SERVICE TO MAINLINE.
- BEAVER CITY INSPECTION REQ'D ON CONNECTION TO MAINLINE. (24 HR NOTICE REQ'D.)
- BACKFILL IN ACCORDANCE TO BEAVER CITY STANDARDS.
- GREEN LOCATOR TAPE MARKED "BURIED SEWER" TO BE INSTALLED 2' ABOVE SERVICE LINES.
- (SEE NOTE 2. PAGE 55)
- TRACER WIRE REQ'D
- PHOTOS AND MEASUREMENTS TO BE PROVIDED TO BEAVER CITY BEFORE CERTIFICATE OF OCCUPANCY CAN BE ISSUED.
- LATERAL PIPE WITHIN CITY R/W TO BE CONSISTENT SLOPE. (NO GRADE BREAKS)

NONE

SCALE:

Beaver City

CONSTRUCTION STANDARDS

NEW SEWER STANDARD DETAILS

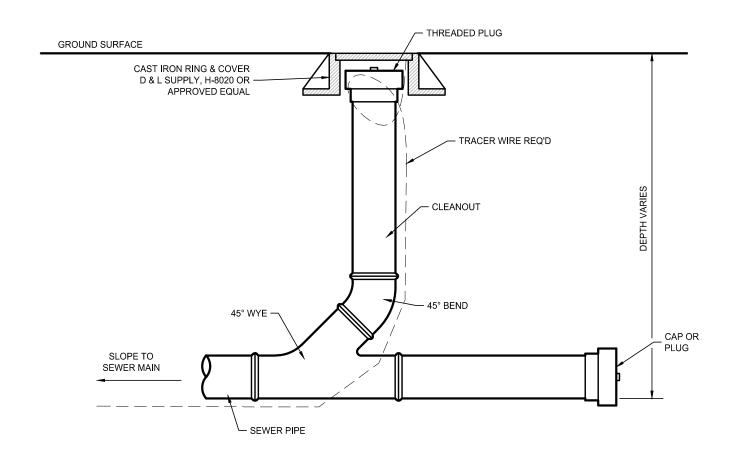
SEWER SERVICE CONNECTION

DRAWN: LG

FILE: STND_DETS_2022 PROJECT: 1705-381 UPDATED: 4/11/2022 PLOTTED: 4/11/2022

SHEET: S4

PREPARED BY:



- CONCRETE COLLAR REQ'D ON CLEAN OUT WITHIN PAVED STREETS. SEE CONCRETE COLLAR DETAIL ON SHEET CW2.
- NO SEWER SERVICE LATERAL TO BE INSTALLED OVER EXISTING CULINARY WATERLINES WITHOUT PRIOR APPROVAL OF BEAVER CITY.
- TRACER WIRE REQ'D

Beaver City

CONSTRUCTION STANDARDS

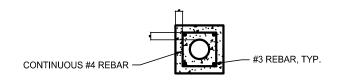
SEWER STANDARD DETAILS

SEWER CLEANOUT

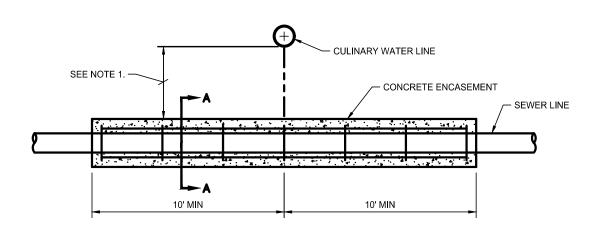
SCALE: NONE DRAWN: LG FILE: STND_DETS_2022 PROJECT: 1705-381 UPDATED: 3/31/2022

SHEET: S5

PREPARED BY:



SECTION A-A



NOTES:

- CONCRETE ENCASEMENT OR DUCTILE IRON PIPE WITH MJ FITTINGS IS REQUIRED WHEN CLEAR VERTICAL DISTANCE IS LESS THAN 18" OR IS LESS THAN 10' BETWEEN PARALLEL LINES.
- 2. NO SEWER SERVICE LATERAL TO BE INSTALLED OVER EXISTING CULINARY WATERLINES WITHOUT PRIOR APPROVAL OF BEAVER CITY.

Beaver City

PREPARED BY:

CONSTRUCTION STANDARDS

SEWER STANDARD DETAILS

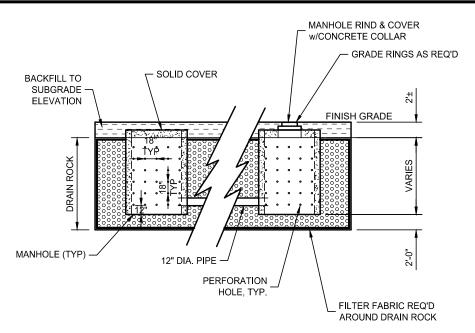
UTILITY LINE CROSSING

SCALE:

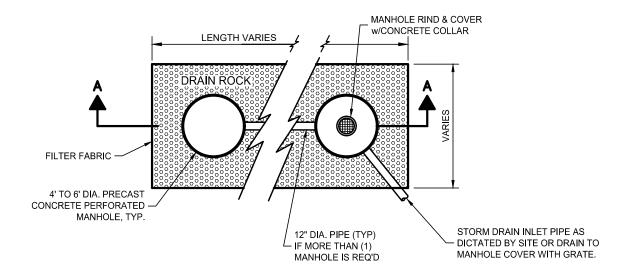
Jones & DeMille Engineering, Inc.

DRAWN: LG NONE

FILE: STND_DETS_2022 PROJECT: 1705-381 UPDATED: 3/31/2022



SECTION A-A



PLAN

NOTES:

- INSTALL RING & COVER ON EACH MANHOLE WITH INLET PIPE.
- NUMBER OF MANHOLES & SIZE DICTATED BY DRAINAGE AREA.
- SIZE TO STORE MINIMUM 1 INCH DEPTH OF WATER OVER DRAINAGE AREA. CALCULATION SHOULD INCLUDE APPROPRIATE RUNOFF COEFFICIENT (C). SIZE IS BASED ON 10 YEAR 2 HOUR STORM EVENT.
- SEE S3 FOR CONCRETE COLLAR DETAILS
- DRY WELL NOT PERMITTED IN NON-PERMEABLE SOILS OR AREAS WITH HIGH GROUND WATER TABLE.

Beaver City

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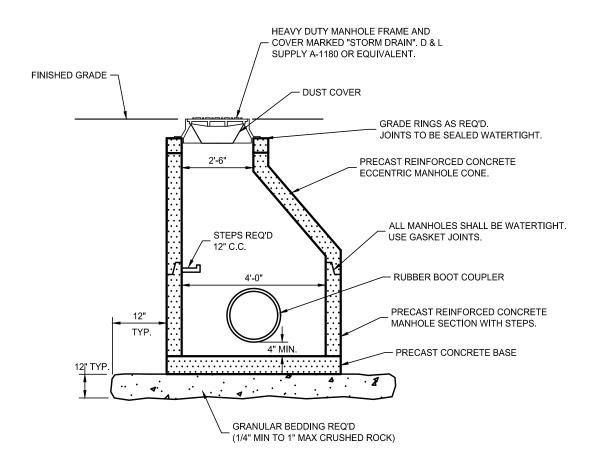
CONSTRUCTION STANDARDS

STORM DRAINAGE CONSTRUCTION

DRY WELL

FILE: STND_DETS_2022 PROJECT: 1705-381 SCALE: DRAWN: LG





- FOR SHALLOW MANHOLES, FLAT TOP MAY BE USED IN PLACE OF ECCENTRIC CONE SECTION.
- 2. WHEN MANHOLE IS WITHIN PAVED STREET, CONSTRUCT CONCRETE COLLAR. SEE S3 FOR DETAILS.

Beaver City

CONSTRUCTION STANDARDS

STORM DRAINAGE CONSTRUCTION

STORM DRAIN MANHOLE

SHEET:

SD2

STORM DRAIN MANHOLE

 SCALE:
 DRAWN: LG
 08/17
 FILE:
 STND_DETS_2022
 PROJECT:
 1705-381

 NONE
 CHECK:
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 UPDATED:
 3/31/2022
 PLOTTED:
 3/31/2022