


PLEASANT VIEW CITY CORPORATION

PUBLIC WORKS STANDARD DRAWINGS

Index of Drawings

SUBMITTED & RECOMMENDED

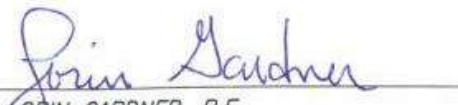

Dana Q. Shuler
DANA Q. SHULER, P.E.
JONES & ASSOCIATES
02/07/19
DATE



APPROVAL


LEONARD CALL
MAYOR
2/21/19
DATE


BILL COBABE
CITY ADMINISTRATOR
21 FEB 2019
DATE


LORIN GARDNER, P.E.
CITY ENGINEER
2/21/2019
DATE


JAY PALMER
PUBLIC WORKS DIRECTOR
2/25/19
DATE


TYSON JACKSON
UTILITIES/PUBLIC WORKS ASSISTANT DIRECTOR
2-22-19
DATE


LAURIE HELLSTROM
ATTEST, CITY RECORDER
2/25/19
DATE



- CS-01....TITLE PAGE & INDEX OF DRAWINGS
- CS-02....PUBLIC ROADS - TYPICAL STREET SECTIONS & UTILITY LATERAL CONFIGURATION DETAILS
- CS-03....PUBLIC ROADS - TYPICAL INTERSECTION & STREET DETAILS
- CS-04....PUBLIC ROADS - TYPICAL DRIVE APPROACH, ASPHALT PATCH & DEFECTIVE CONCRETE REPLACEMENT DETAILS
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- CS-13....SANITARY SEWER - LATERAL & CONNECTION DETAILS
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- CS-15....STORM DRAIN - SINGLE AND DOUBLE CATCH BASIN DETAILS
- CS-16....STORM DRAIN - DRAINAGE INLET BOX, GENERAL GRATE & FRAME & TYPICAL LAND DRAIN TRENCH DETAILS
- CS-17....STORM DRAIN - MANHOLE DETAILS
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- CS-19....STORM DRAIN - SMALL DETENTION BASIN DETAILS
- CS-20....GENERAL - CHAIN LINK FENCE DETAILS
- CS-21....GENERAL - STREET LIGHTING STANDARDS
- CS-22....GENERAL - LID (LOW IMPACT DEVELOPMENT) EXAMPLES

△ REVISION 1 - FEBRUARY 12, 2019
ORIGINAL - NOVEMBER 14, 2017



CURBED ROAD SECTION

STREET DESIGNATION	R.O.W. WIDTH (A)	T.B.C. TO T.B.C. (B)	£ TO T.B.C. (C)
STANDARD RESIDENTIAL	60'	40'	20'
MINOR COLLECTOR	66'	46'	23'
MAJOR COLLECTOR	70'	50'	25'
MINOR ARTERIAL	80'	60'	30'
MAJOR ARTERIAL	110'	90'	45'

NOTE: ROAD SECTION USED AS DETERMINED BY THE CITY ENGINEER & PLANNING COMMISSION BASED UPON ZONING, GENERAL PLAN, SIZE OF DEVELOPMENT, ESTIMATED TRAFFIC VOLUME, & AMOUNT OF OPEN SPACE ASSOCIATED WITH DEVELOPMENTS PROXIMITY TO HIGH VOLUME ROADS OR COMMERCIAL ZONING.

6. THE 5'-0" SIDEWALK SHOWN ABOVE IS TO BE CONSIDERED THE "CITY STANDARD." OTHER LOCATIONS AND TYPES OF SIDEWALK AS REQUESTED BY THE DEVELOPER MUST BE APPROVED BY THE CITY. IF SIDEWALK IS LOCATED AGAINST THE TBC, IT MUST BE A MINIMUM OF 6 FEET IN WIDTH.
7. NATURAL GAS TYPICALLY LOCATED IN THE PARKSTRIP, POWER AND COMMUNICATION LINES TYPICALLY LOCATED BEHIND PROPERTY LINES OR IN LOT EASEMENTS.
8. "SEAL COAT" CONSISTS OF THE FOLLOWING:
 - a. CHIP SEAL PER APWA 32 01 13.64 AND CITY MODIFICATIONS, AND
 - b. FOG SEAL PER APWA 32 01 13.50 AND CITY MODIFICATIONS.
9. IMPORTED FILL UNDER ROADWAY SHALL BE GRANULAR BORROW, 2" MAX.

PROPERTY LINE

PRESSURIZED IRRIGATION SYSTEM DESIGN AS APPROVED BY PINEVIEW WATER SYSTEMS

10'-0"

INSTALL LAND DRAIN LATERAL ON LOW END SIDE OF LOT (SEE SHEET CS-13)

SEWER LATERAL (SEE SHEET CS-13)

10'-0"

CULINARY WATER LATERAL CENTERED ON LOT (SEE SHEET CS-07)

PROPERTY LINE

STAMPED CURB MARK REQUIRED FOR LATERAL LOCATING PURPOSES (SEE SHEET CS-07 & CS-13)

DRIVEWAY APPROACH (SEE SHEET CS-04)

10' MIN. SEPARATION (FROM EDGE OF WATER PIPE TO EDGE OF SEWER PIPE)

CULINARY WATER MAIN

CL OF STREET

SD

LD

S

IRR

LAND DRAIN MAIN

SEWER MAIN

IRRIGATION MAIN

GENERAL LOT LATERAL CONFIGURATION DETAIL

Diagram illustrating the cross-section of a road profile, showing a sag vertical curve. The curve is defined by a parabolic shape. Key dimensions and labels include:

- $S = 2.0\% \text{ MIN.}$ (Slope of the curve)
- $LIP \text{ TO CROWN [B]}$ (Distance from the curb lip to the crown)
- $BACK \text{ OF CURB TO BACK OF CURB [A]}$ (Total length of the curve between the backs of the curbs)

CROWN NOTES:

- A. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN CURBS ON OPPOSITE SIDES OF THE STREET SHALL NOT EXCEED THOSE SHOWN IN DETAIL AND TABLE.
- B. ON ARTERIAL STREETS AND CERTAIN STREETS APPROVED BY THE CITY COUNCIL, THE CITY ENGINEER WILL PROVIDE A PAVEMENT DESIGN. LOCATION OF SIDEWALK AND CURB & GUTTER MAY VARY ON INDIVIDUAL ARTERIAL STREETS PER DIRECTION OF THE CITY ENGINEER.
- C. ALL OTHER PROPOSED STREET CROSS SECTIONS SHALL BE AS APPROVED BY THE CITY ENGINEER.

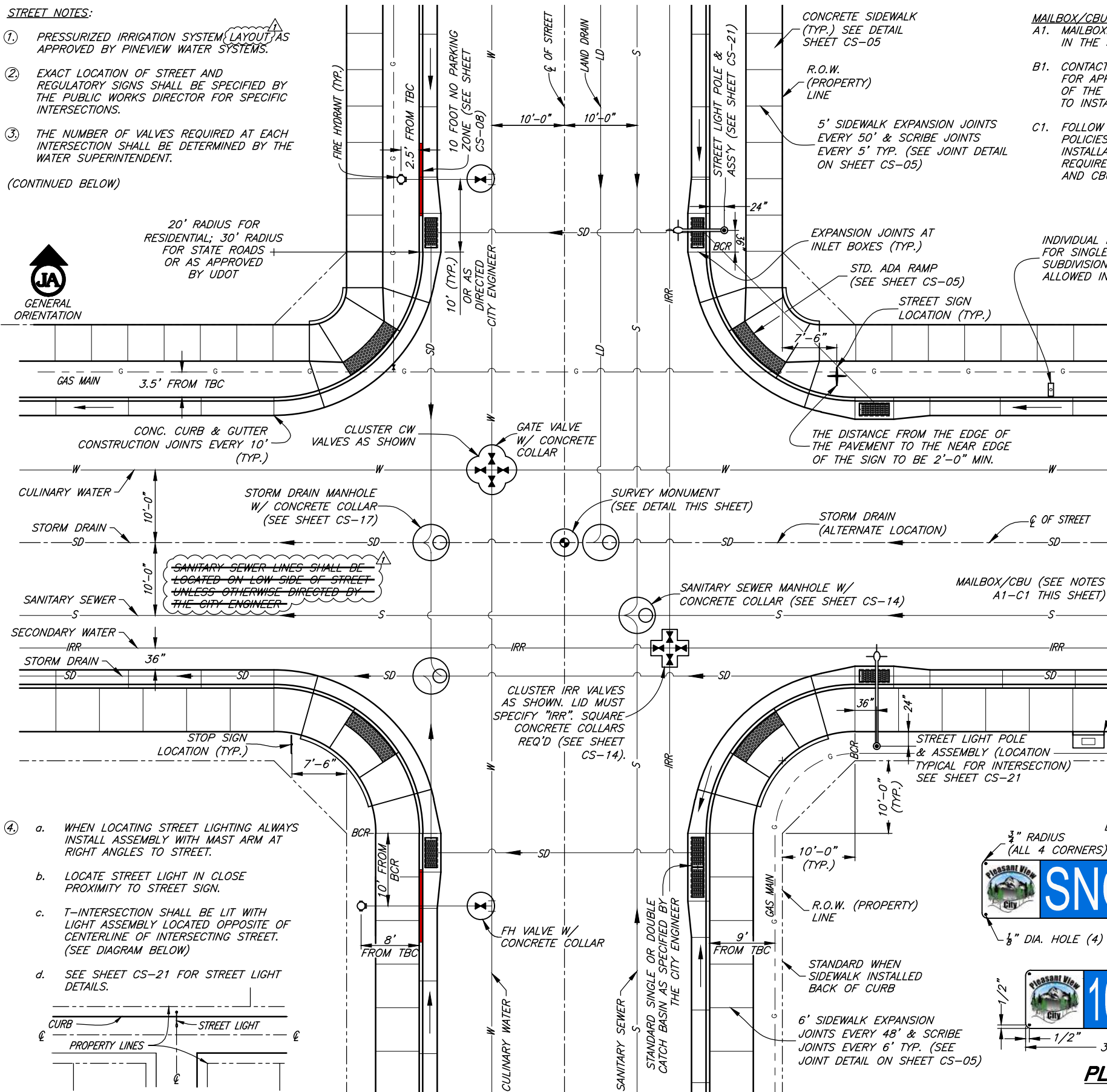
CROWN LOCATION TABLE		
A	B	C
40'-0"	17'-6"	0'-0"
40'-0"	12'-0"	0'-6"
40'-0"	10'-0"	1'-0"
46'-0"	20'-6"	0'-0"
46'-0"	10'-6"	0'-6"
46'-0"	10'-6"	1'-0"
CUL-DE-SAC		1'-0" MAX.

CROWN LOCATION FOR VARIOUS CROSS SLOPES

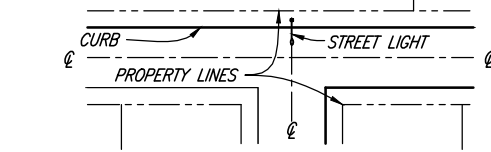
STREET NOTES:

1. PRESSURIZED IRRIGATION SYSTEM LAYOUT AS APPROVED BY PINEVIEW WATER SYSTEMS.
2. EXACT LOCATION OF STREET AND REGULATORY SIGNS SHALL BE SPECIFIED BY THE PUBLIC WORKS DIRECTOR FOR SPECIFIC INTERSECTIONS.
3. THE NUMBER OF VALVES REQUIRED AT EACH INTERSECTION SHALL BE DETERMINED BY THE WATER SUPERINTENDENT.

(CONTINUED BELOW)



4. a. WHEN LOCATING STREET LIGHTING ALWAYS INSTALL ASSEMBLY WITH MAST ARM AT RIGHT ANGLES TO STREET.
- b. LOCATE STREET LIGHT IN CLOSE PROXIMITY TO STREET SIGN.
- c. T-INTERSECTION SHALL BE LIT WITH LIGHT ASSEMBLY LOCATED OPPOSITE OF CENTERLINE OF INTERSECTING STREET. (SEE DIAGRAM BELOW)
- d. SEE SHEET CS-21 FOR STREET LIGHT DETAILS.



MAILBOX/CBU NOTES:

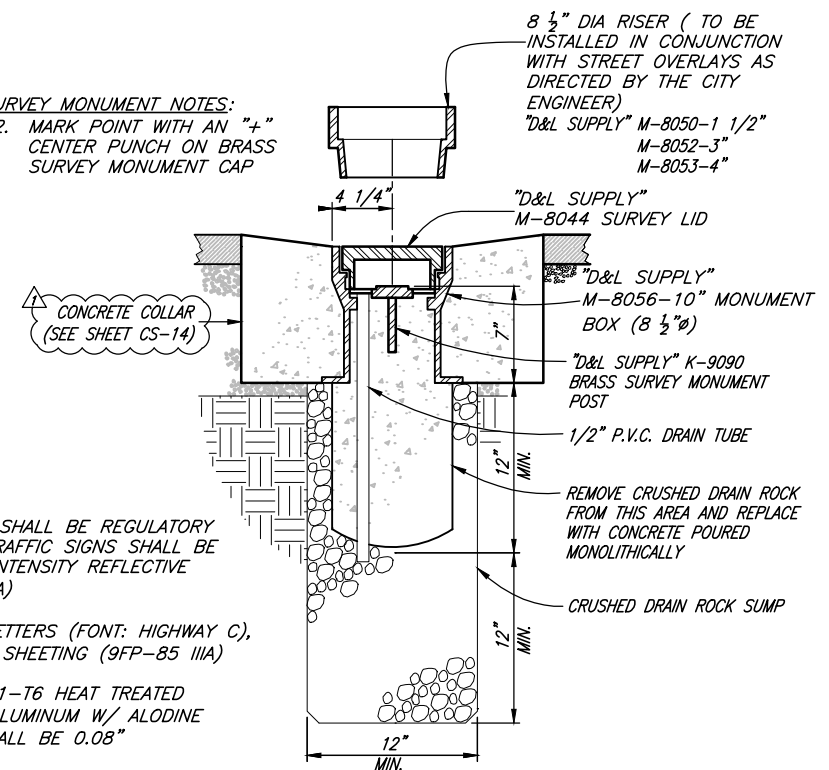
- A1. MAILBOXES SHALL NOT BE PLACED IN THE SIDEWALK.
- B1. CONTACT THE LOCAL POSTMASTER FOR APPROVAL ON THE LOCATION OF THE MAILBOX OR CBU PRIOR TO INSTALLATION.
- C1. FOLLOW USPS GUIDELINES & POLICIES FOR THE PLACEMENT, INSTALLATION, AND ACCESS REQUIREMENTS FOR ALL MAILBOX AND CBU UNITS.

STREET SIGN NOTES:

- A. STREET SIGN BACKGROUND SHALL BE REGULATORY BLUE, BOTH STREET AND TRAFFIC SIGNS SHALL BE AT THE VERY LEAST HIGH INTENSITY REFLECTIVE SHEETING (9FP-85 TYPE IIIA)
- B. LEGEND SHALL BE WHITE LETTERS (FONT: HIGHWAY C), HIGH INTENSITY REFLECTIVE SHEETING (9FP-85 IIIA)
- C. SIGN BLANK SHALL BE 6081-T6 HEAT TREATED HIGH TENSILE DEGREASED ALUMINUM W/ ALODINE 1200 FINISH-THICKNESS SHALL BE 0.08"
- D. EACH SIGN SHALL CONSIST OF TWO PLATES RIVETED TOGETHER & MOUNTED AS SHOWN
- E. SIGNS ON PRIVATE ROADS SHALL MEET ALL SPECIFICATIONS FOR STANDARD SIGNS, EXCEPT BACKGROUND SHALL BE GREEN.
- F. ALL STREETS WITH NAMES MUST ALSO SHOW LOCATIONS COORDINATE DESIGNATION
- G. CONTACT CITY PRIOR TO MAKING SIGNS TO VERIFY PROPER NAMES AND COORDINATES

SURVEY MONUMENT NOTES:

- A2. MARK POINT WITH AN "X" CENTER PUNCH ON BRASS SURVEY MONUMENT CAP



SURVEY MONUMENT DETAIL

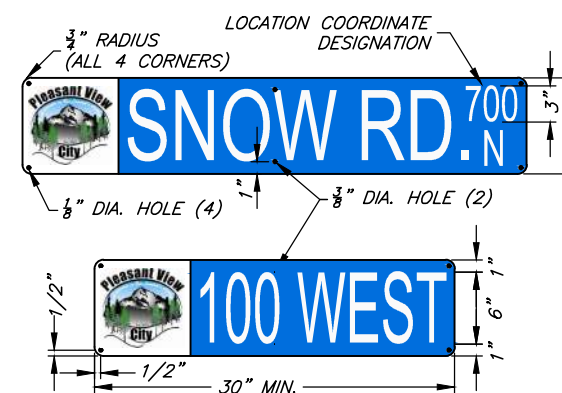
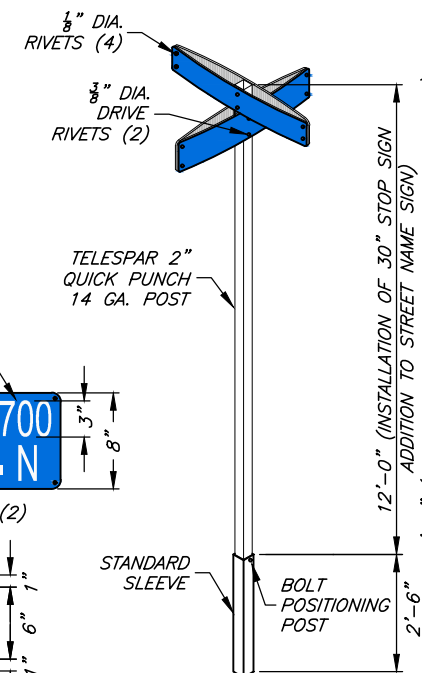
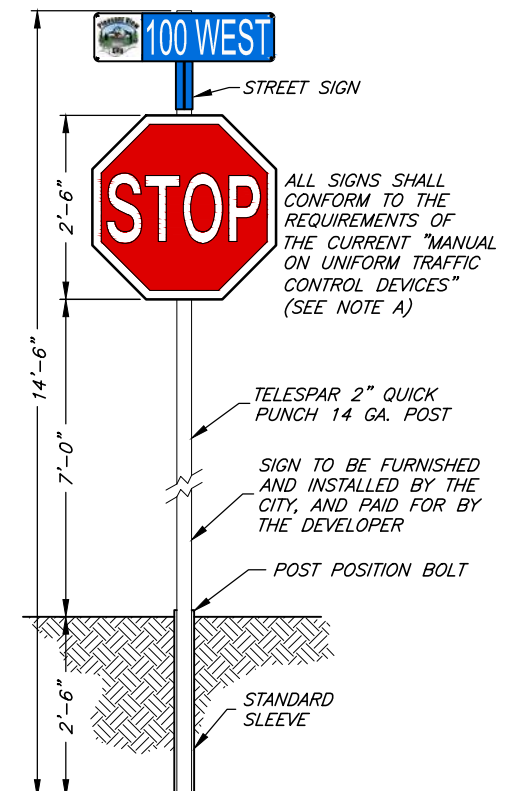


PLATE DETAIL



STREET SIGN & POST



STREET / TRAFFIC SIGN & POST



1 JAN '19 DQS REVISED AND/OR DELETED NOTES		
REV.	DATE	APPR.

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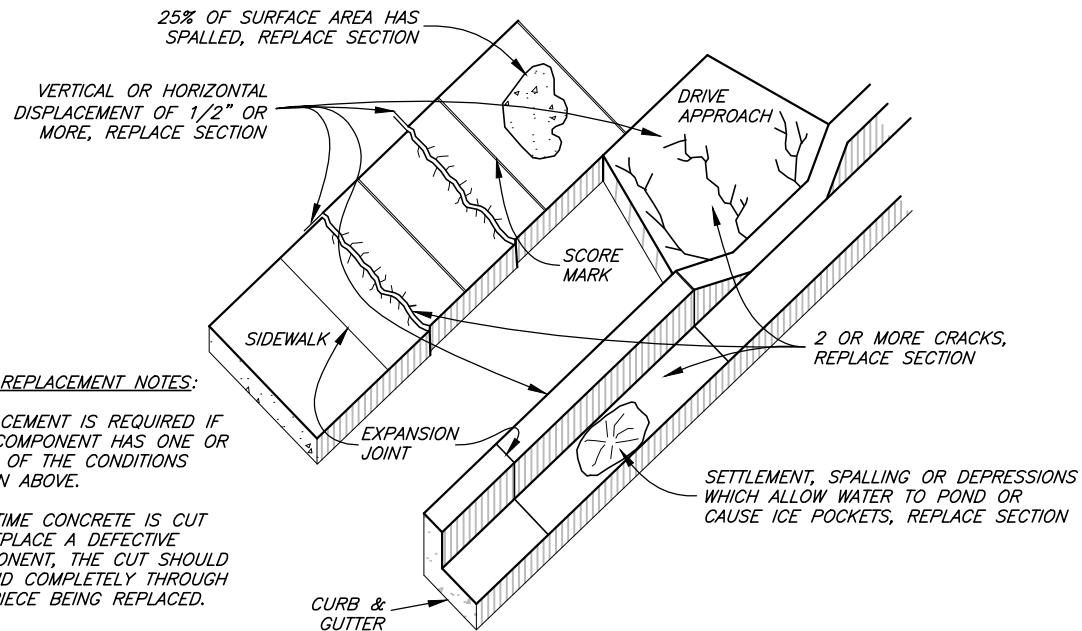


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PLEASANT VIEW CITY CORPORATION
PUBLIC WORKS STANDARDS
PUBLIC ROADS - TYPICAL INTERSECTION & STREET DETAILS

SHEET:
CS-03
OF 22 SHEETS

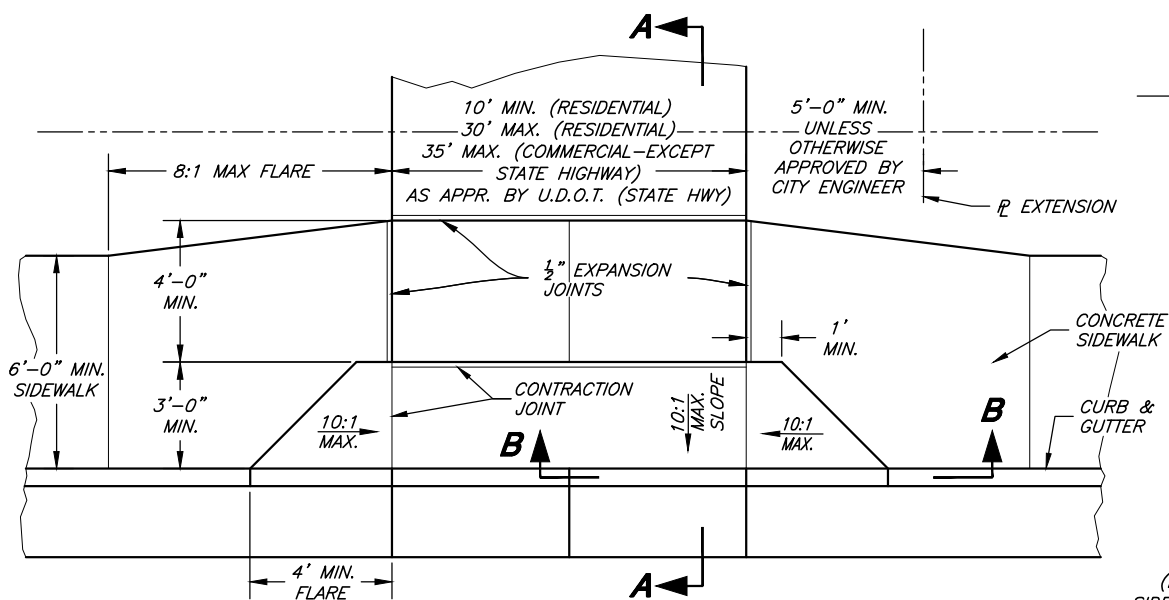
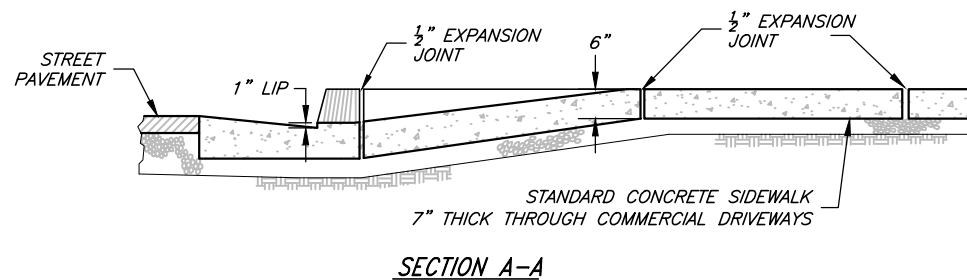
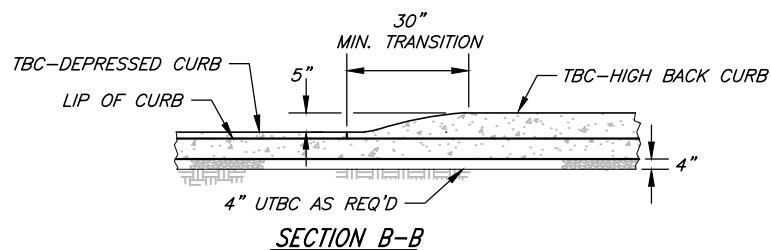
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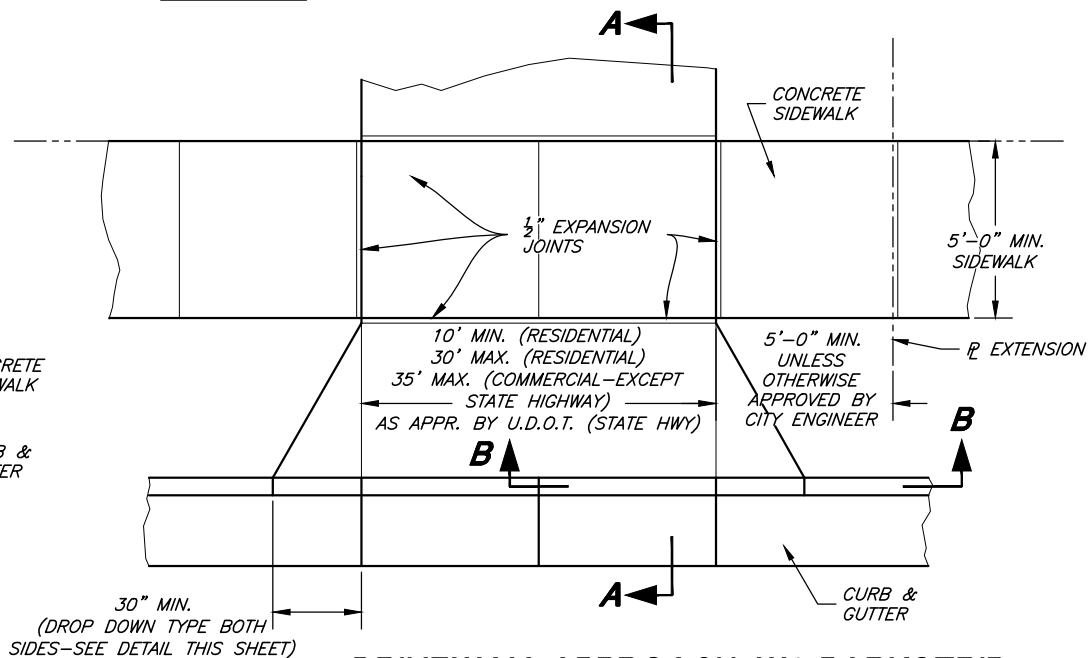
CONCRETE REPLACEMENT NOTES:

- REPLACEMENT IS REQUIRED IF ANY COMPONENT HAS ONE OR MORE OF THE CONDITIONS SHOWN ABOVE.
- ANY TIME CONCRETE IS CUT TO REPLACE A DEFECTIVE COMPONENT, THE CUT SHOULD EXTEND COMPLETELY THROUGH THE PIECE BEING REPLACED.
- CURB & GUTTER MIN. 10'-0" SECTIONS.

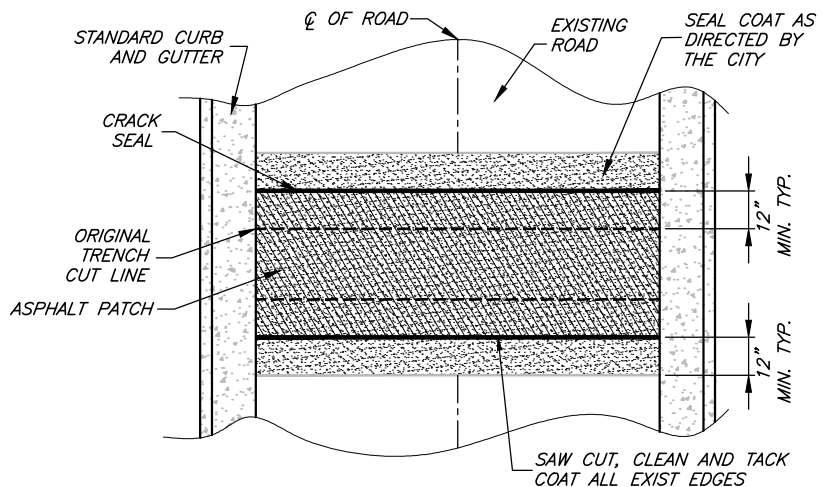
DEFECTIVE CONCRETE REPLACEMENT CRITERIA



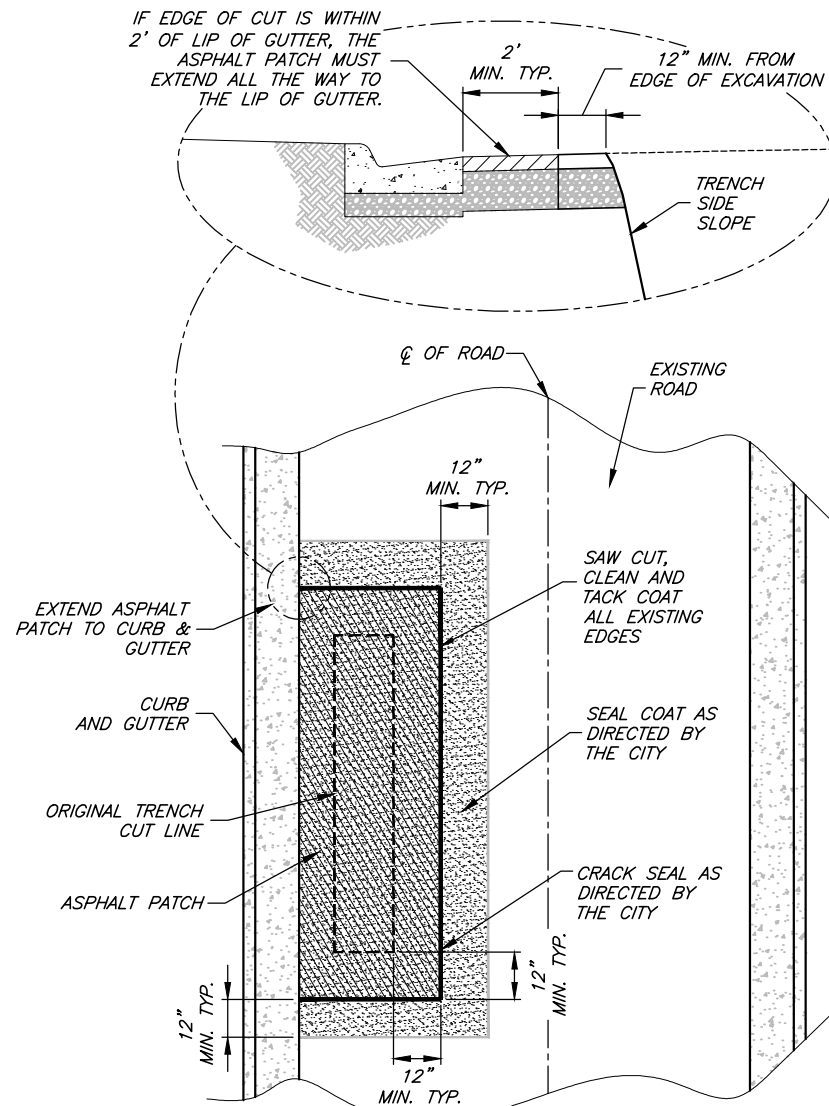
DRIVEWAY APPROACH W/ ADJACENT SIDEWALK



DRIVEWAY APPROACH W/ PARKSTRIP
DROP DOWN STYLE (CITY STANDARD)



TYPICAL HORIZONTAL ASPHALT PATCH PLAN



TYPICAL PARALLEL ASPHALT PATCH PLAN

DRIVEWAY APPROACH NOTES:

- IN NEW SUBDIVISIONS WHERE FUTURE DRIVEWAY LOCATIONS ARE UNKNOWN, THE DRIVEWAY APPROACH SHALL BE MADE BY SAW CUTTING THE BACK OF THE EXISTING CURB TO THE REQUIRED DRIVEWAY WIDTH. ALL SAW CUTTING SHALL BE ACCOMPLISHED BY A CITY APPROVED LICENSED CONTRACTOR.
- SCORE SIDEWALK 1/4" OF SIDEWALK THICKNESS AT EACH 5'-0" OR 6'-0" SECTION. EXPANSION JOINTS AT EACH 48'-0" (6'-0" SIDEWALK) OR 50'-0" (5'-0" SIDEWALK), PROVIDE ADDITIONAL CONTRACTION JOINTS ON OVERSIZED DRIVEWAYS AT 5'-0" MAX. SPACING



PROJECT ENGINEER
1/10/2019
DATE

REV.	DATE	APPR.

SCALE:
N. T.S.

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PUBLIC WORKS STANDARDS

PUBLIC ROADS - TYPICAL DRIVE APPROACH, ASPHALT PATCH & DEFECTIVE CONCRETE REPLACEMENT DETAILS

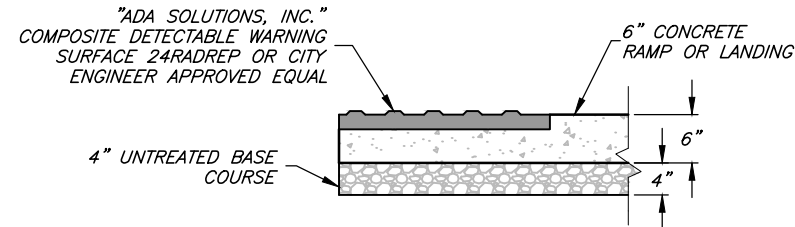
SHEET:

CS-04

OF 22 SHEETS

DETECTABLE WARNING SURFACE NOTES:

1. LOCATE THE DETECTABLE WARNING SURFACE SO THE OUTSIDE CORNER NEAREST THE STREET IS WITHIN 1 INCH OF THE BACK OF CURB (TBC). PROVIDE 2-FOOT MINIMUM DEPTH.
2. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF CURB CUT.
3. THE DETECTABLE WARNING SURFACE DOMES SHALL BE ORIENTED SUCH THAT THE ROWS ARE PARALLEL WITH THE DIRECTION OF PEDESTRIAN TRAVEL TO THE RAMP ON THE OPPOSITE SIDE OF THE STREET.
4. THE STANDARD COLOR FOR THE DETECTABLE WARNING SURFACE SHALL BE DARK GRAY OR PRE-APPROVED CONTRASTING COLOR. WHEN THE EXISTING SIDEWALK COLOR IS NOT STANDARD CONCRETE, THE COLOR OF THE DETECTABLE WARNING SURFACE SHALL BE DETERMINED BY THE CITY ENGINEER OR AUTHORIZED REPRESENTATIVE.
5. WHEN A DETECTABLE WARNING SURFACE DOME IS CUT, THE REMAINING PORTION OF THE DOME SHALL BE BEVELED TO A MAXIMUM SLOPE OF 1:2.



DETECTABLE WARNING SURFACE DETAIL

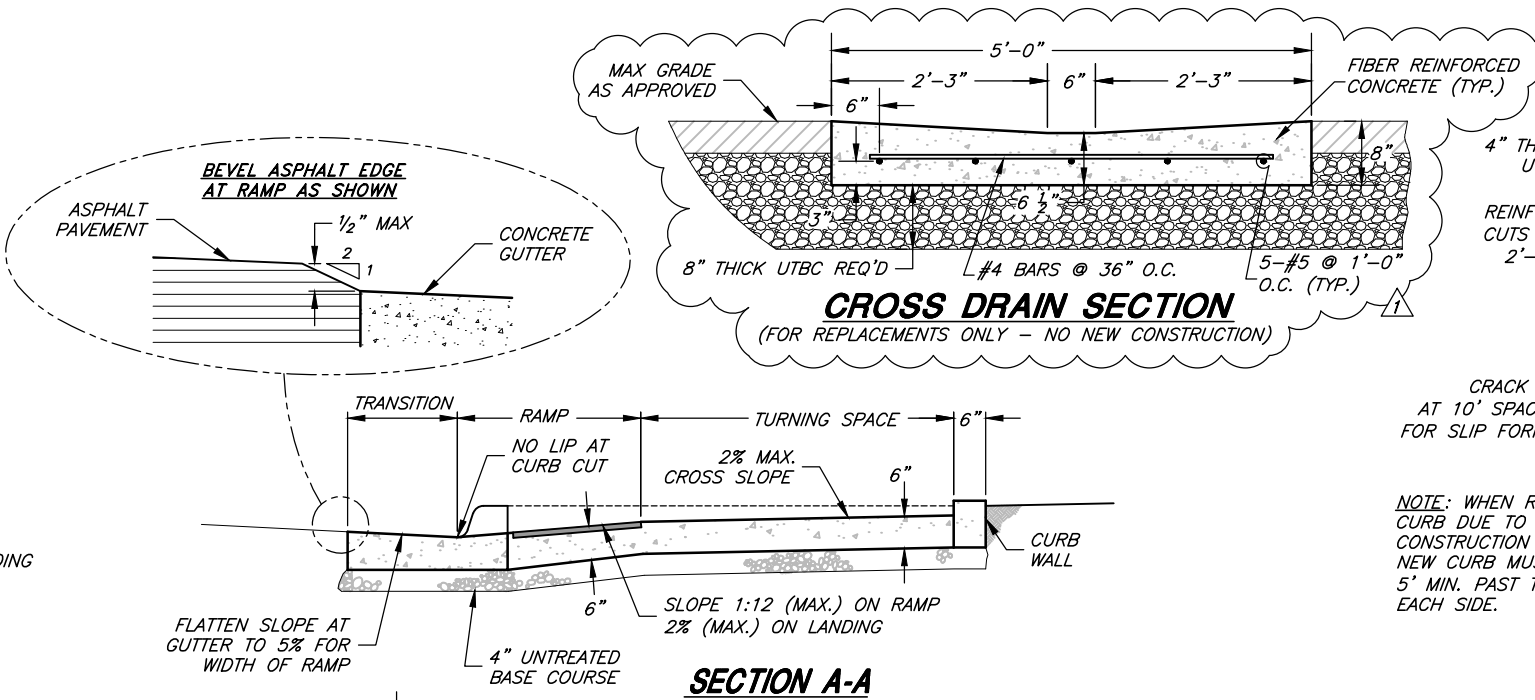
ADA RAMP NOTES:

- A. WHERE DESIGNATED BY THE CITY, ALTERNATE UDOT OR APWA RAMP DESIGNS MAY BE USED WITH THE PRIOR APPROVAL OF THE CITY ENGINEER AND THE CITY PUBLIC WORKS DEPARTMENT. SUBMIT ENGINEERED CONSTRUCTION PLANS TO CITY ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION.
- B. SITE CONDITIONS WILL VARY. CONFIGURATION OF RAMP, LANDING, AND TRANSITION MAY BE CHANGED, BUT THEY MUST MEET DIMENSIONS AND SLOPES AS SHOWN IN THE MOST RECENT EDITION OF THE U.D.O.T. STANDARDS & SPECIFICATIONS (SHEETS PA1 THROUGH PA5). THE USE OF FLARES, CURB WALLS, ETC. ARE AT THE DISCRETION OF THE ENGINEER.
- C. LOCATE CURB CUT WITHIN CROSSWALK.
- D. RAMP GRADE BREAK MUST BE PERPENDICULAR TO THE RUNNING SLOPE.

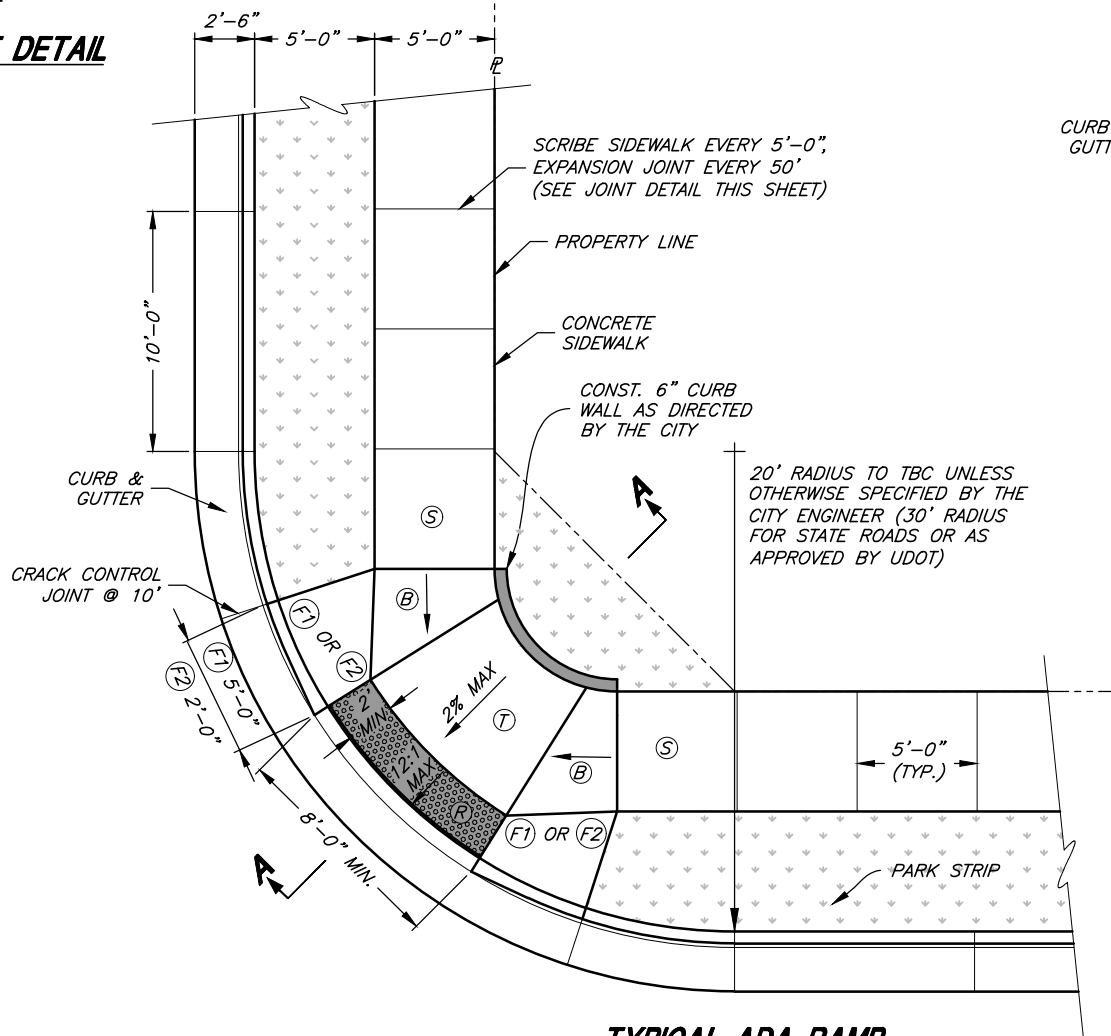
SLOPE TABLE			
	ITEM	MAX RUNNING SLOPE*	MAX. CROSS SLOPE*
⑦	TURNING SPACE ²	2% (1V:48H)	2% (1V:48H)
⑧	RAMP	8.3% (1V:12H)	2% (1V:48H)
⑤	SIDEWALK	5% (1:20) ¹	2% (1V:48H)
①	TRAVERSABLE SURFACE	10% (1V:10H)	--
②	NON-TRAVERSABLE SURFACE	25% (1V:4H)	--
③	BLENDED TRANSITION	5% (1V:20H) 2% MIN.	2% (1V:48H)

* RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL. CROSS SLOPE IS PERPENDICULAR TO PEDESTRIAN TRAVEL.

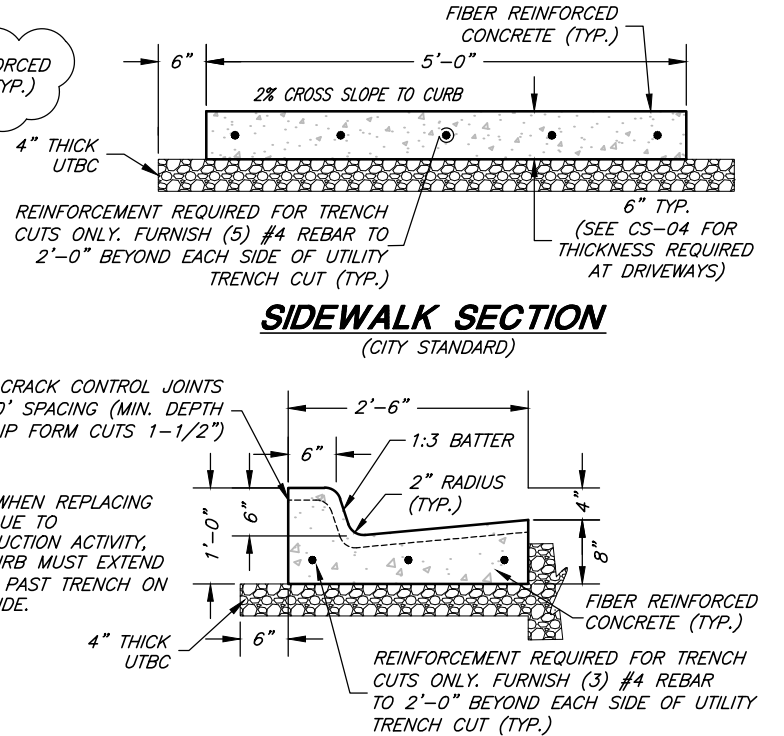
- ¹ 5% MAX OR NATURAL SLOPE OF LAND
- ² NOT TO EXCEED 2% IN ANY DIRECTION



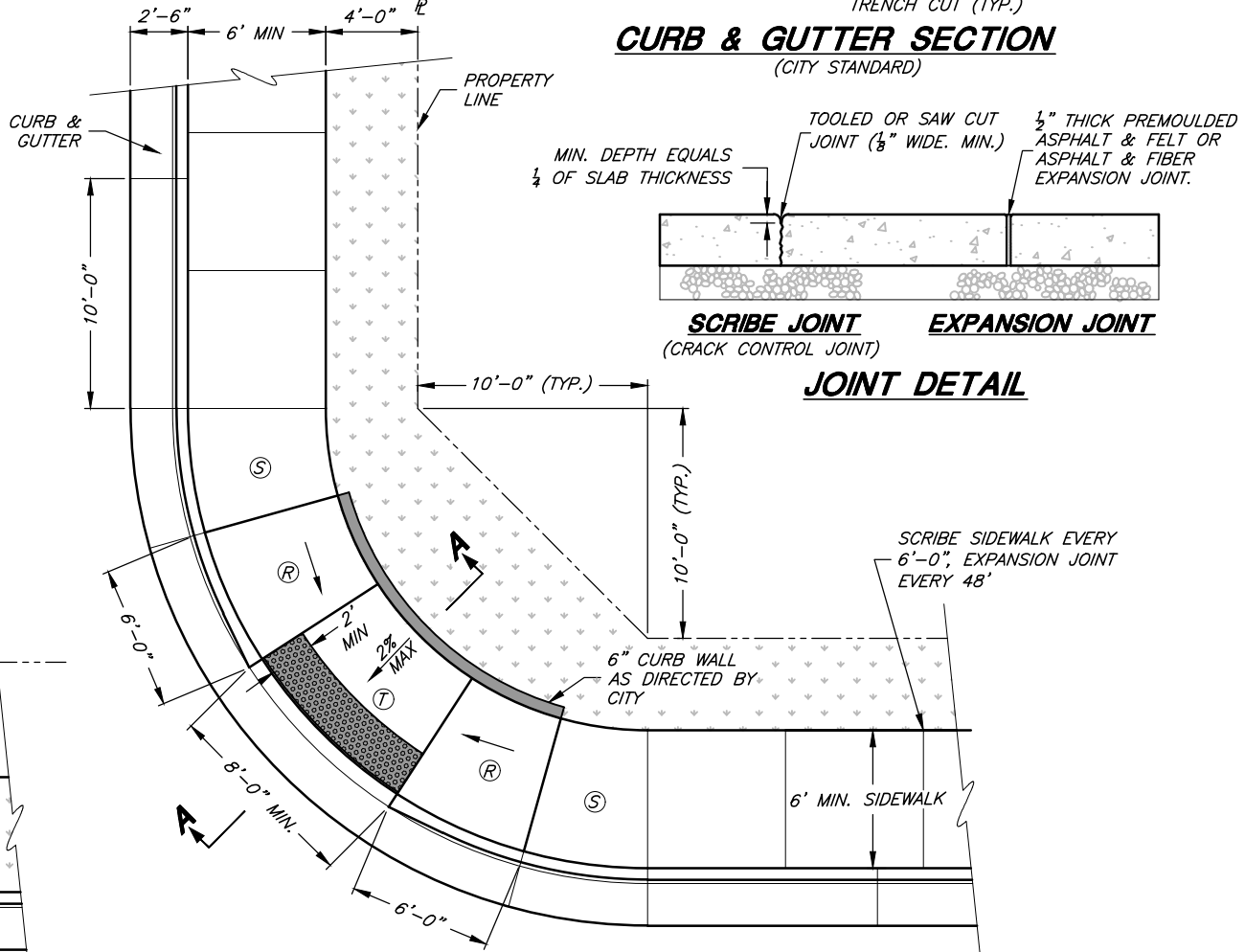
SECTION A-A



TYPICAL ADA RAMP

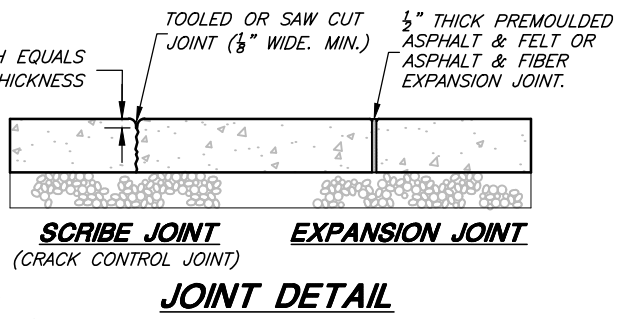


SIDEWALK SECTION
(CITY STANDARD)



ADA RAMP-DETAIL "B"
(WITHOUT PARK STRIP)

CURB & GUTTER SECTION
(CITY STANDARD)



JOINT DETAIL



1	JAN '19	DQS	ADDED DETAIL
REV.	DATE	APPR.	

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N. T. S.	DRAWN
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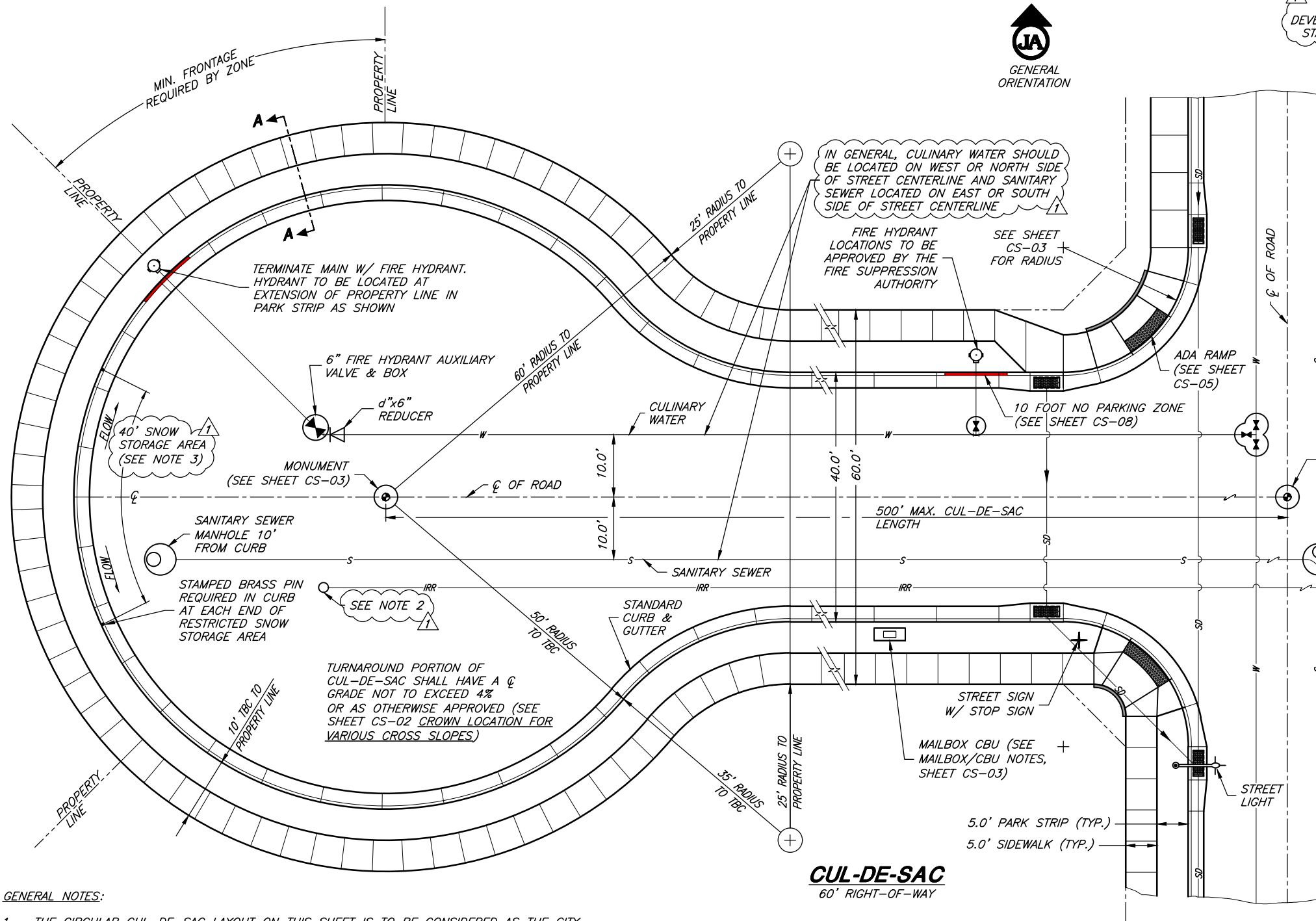


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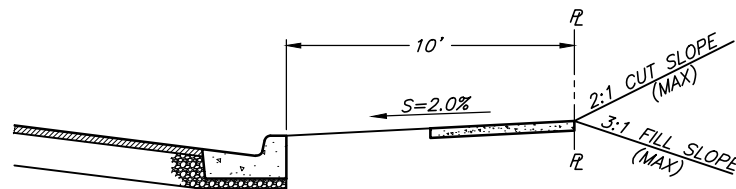
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CS-05
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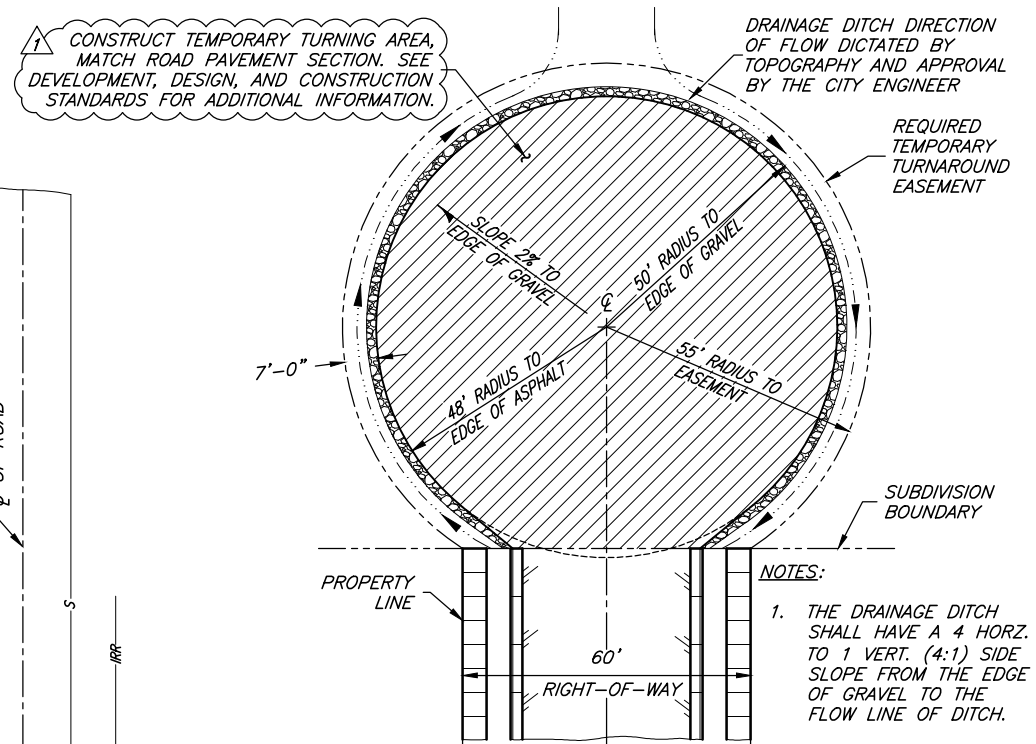
GENERAL NOTES:

1. THE CIRCULAR CUL-DE-SAC LAYOUT ON THIS SHEET IS TO BE CONSIDERED AS THE CITY STANDARD DESIGN. OTHER ALTERNATE DESIGNS MAY BE CONSIDERED AS APPROVED BY THE CITY ENGINEER.
2. MODIFIED CUL-DE-SACS (KNUCKLE, EYEBROW, BULB, OR HALF CUL-DE-SACS) ARE NOT PERMITTED.
2. DEVELOPER SHALL PROVIDE AN AIR RELIEF OR BLOW-OFF AS DETERMINED BY THE SECONDARY WATER PROVIDER AND IN ACCORDANCE WITH THEIR STANDARDS AND APPROVED BY THE CITY ENGINEER.
3. NO DRIVEWAYS, FIRE HYDRANTS, OR MAIL BOXES ARE PERMITTED WITHIN THE SNOW STORAGE AREA.



SECTION A-A

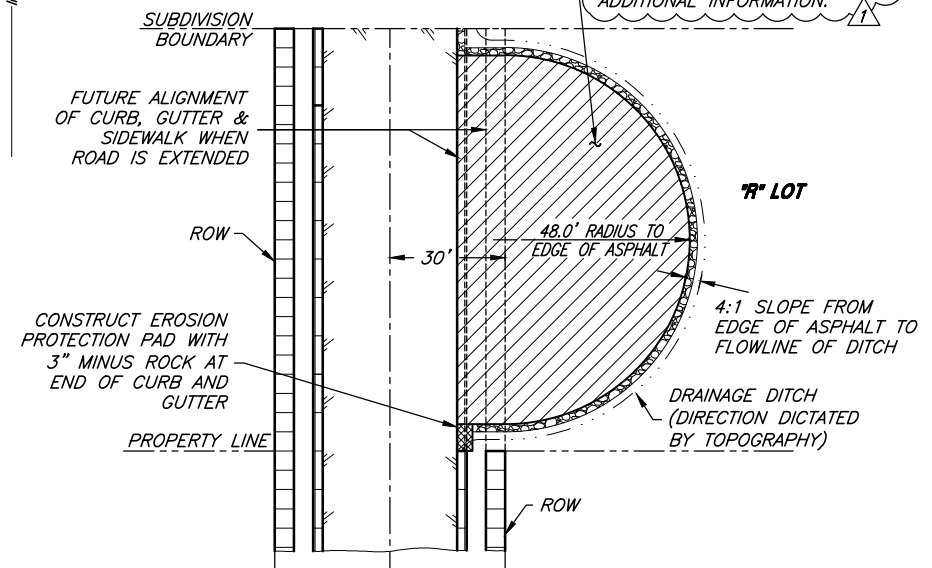
REQUIRED GRADING BETWEEN TBC AND PROPERTY LINE



**CITY STANDARD
TEMPORARY TURNAROUND**

(FOR OUTSIDE OF SUBDIVISION BOUNDARY AND TO BE MAINTAINED BY PROPERTY OR EASEMENT OWNER)

CLUSTER IRR VALVES AS SHOWN. LID MUST SPECIFY "IRR". SQUARE CONCRETE COLLARS REQ'D (SEE SHEET CS-14).



TEMPORARY TURNAROUND

(FOR INSIDE SUBDIVISION BOUNDARY TO BE MAINTAINED BY PROPERTY OWNER)



PROJECT ENGINEER
Dana Q. Shuler
1/10/2019
DATE

1 JAN '19 DQS REVISED, ADDED, AND/OR DELETED NOTES

REV. DATE APPR.

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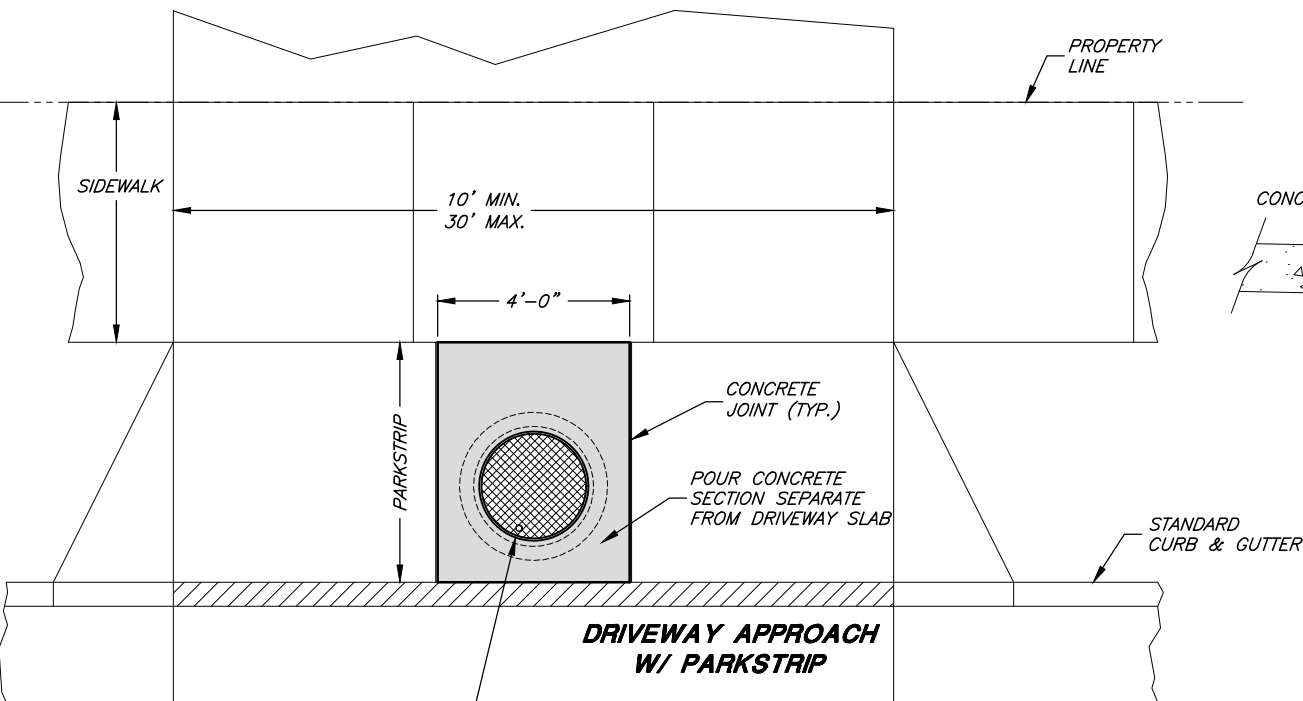
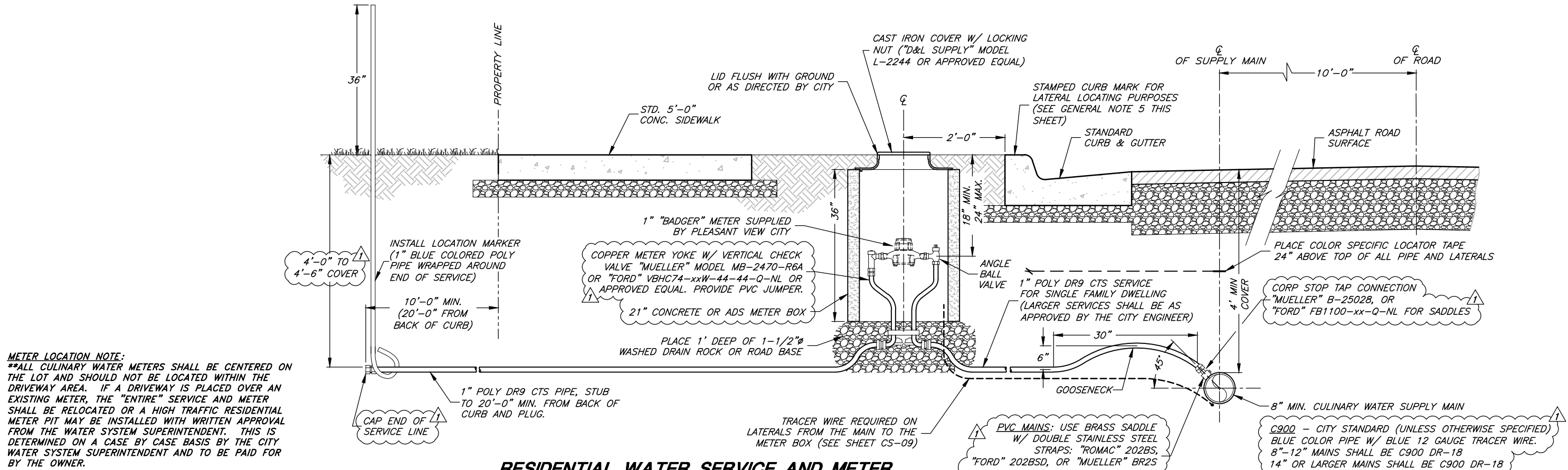
PUBLIC ROADS - CUL-DE-SAC & TEMP. TURNAROUND DETAILS

SHEET:

CS-06

OF 22 SHEETS

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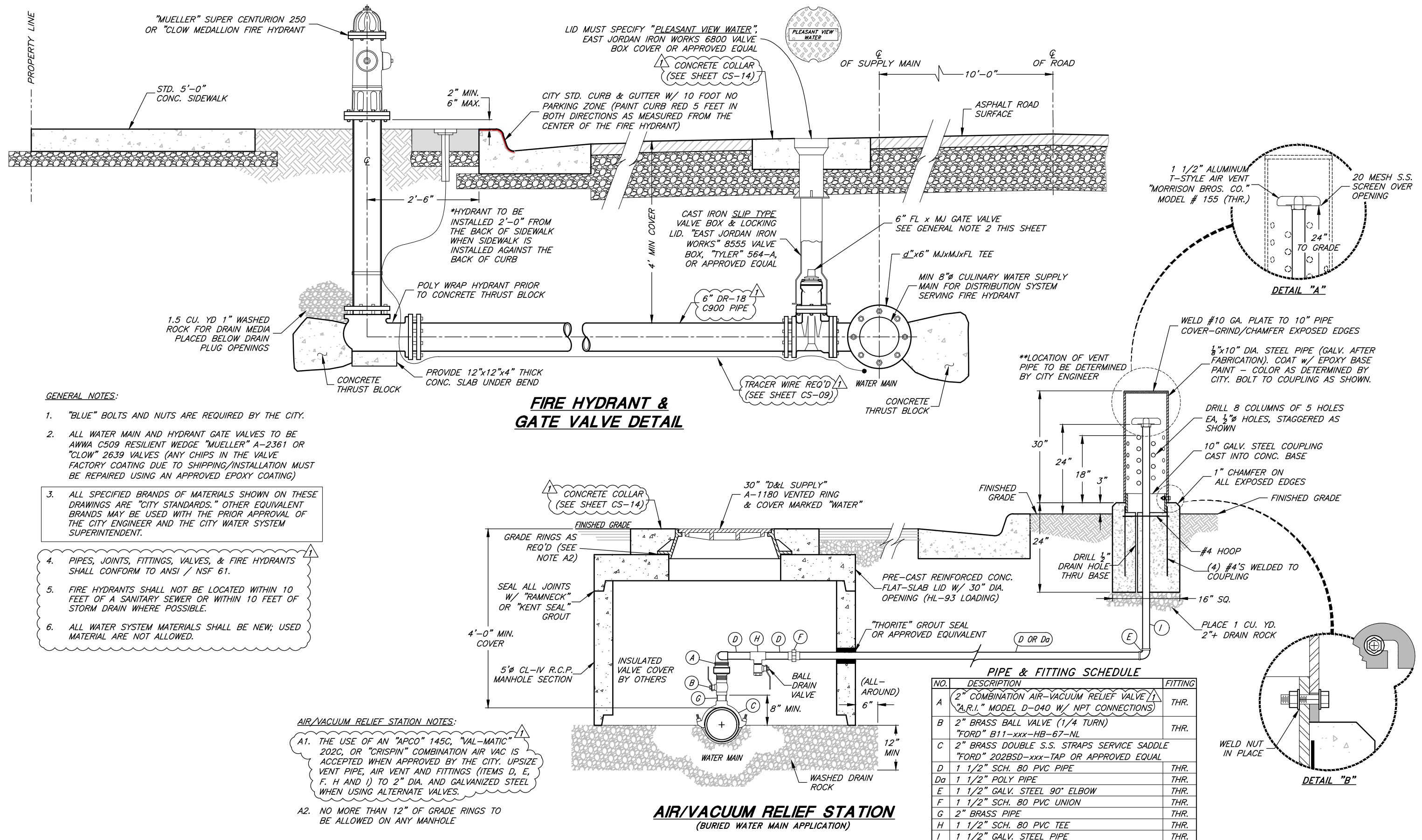
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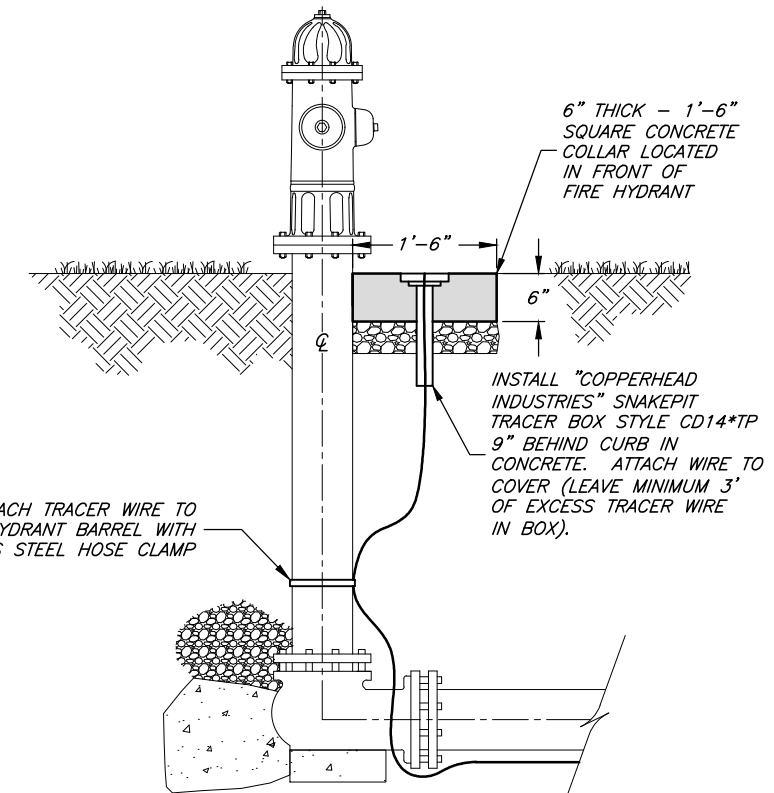
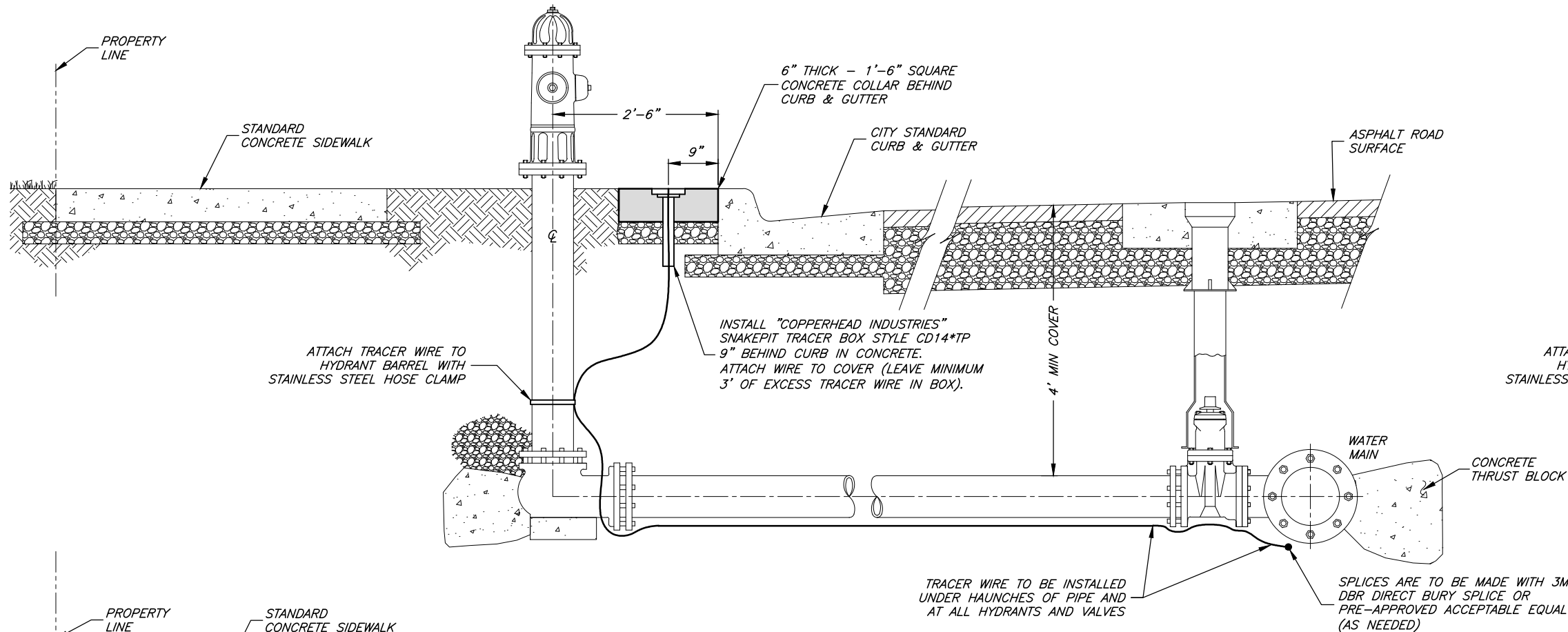
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PLEASANT VIEW CITY CORPORATION
PUBLIC WORKS STANDARDS
CULINARY WATER - RESIDENTIAL WATER SERVICE DETAILS

SHEET:
CS-07
OF 22 SHEETS



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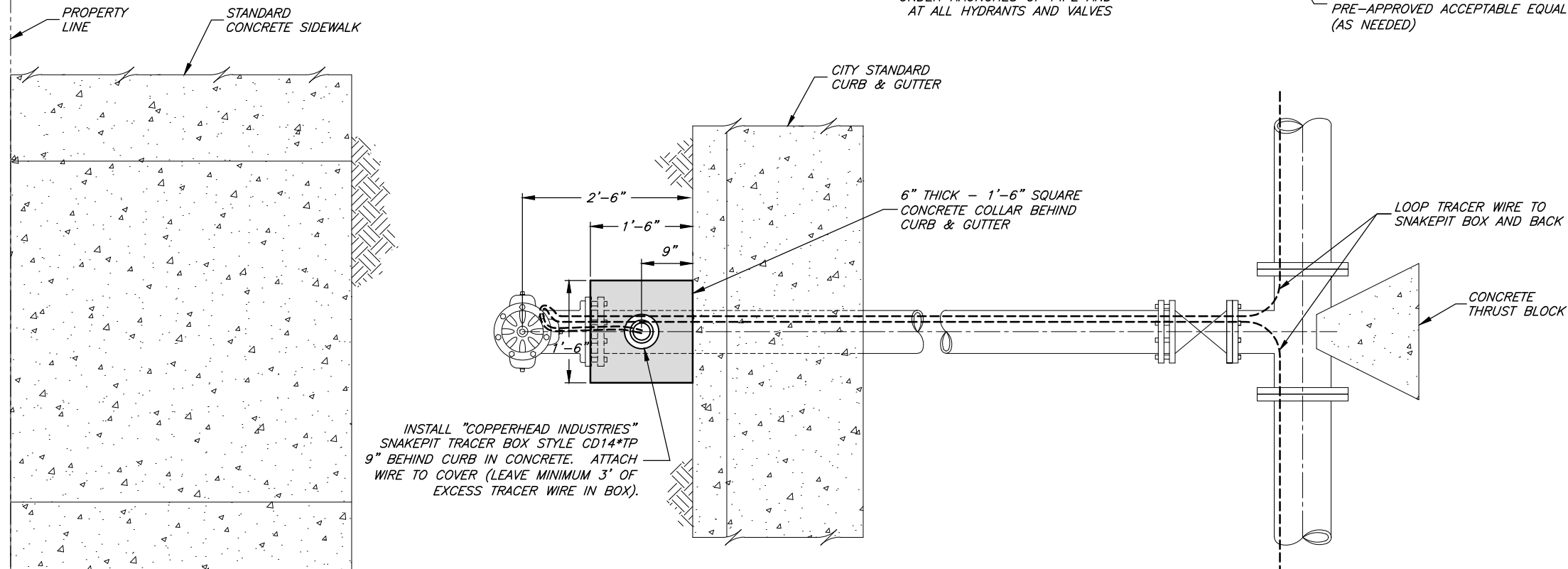


ALTERNATE TRACER WIRE INSTALLATION

WHERE APPROVED BY THE WATER SYSTEM SUPERINTENDENT ON STREET SECTIONS WITH NO CURB & GUTTER

NOTES:

1. ALL WATERLINES SHALL HAVE A MINIMUM 12 GA. INSULATED TRACER WIRE INSTALLED UNDER THE HAUNCHES OF THE PIPE PRIOR TO BACKFILLING.
2. TRACER WIRES SHALL TERMINATE AT ALL FIRE HYDRANTS. AT SERVICE SADDLES AND TAPPING SLEEVES, THE TRACER WIRE SHALL NOT BE ALLOWED TO BE PLACED BETWEEN THE SADDLE AND THE PIPE. A GROUNDING ROD SHALL BE INSTALLED AT ALL TRACER SYSTEM TERMINAL POINTS.
3. TRACER WIRE SHALL BE COPPER WIRE WITH BLUE INSULATION RATED FOR DIRECT BURIAL. ALL WIRE CONNECTORS SHALL BE 3M DBR DIRECT BURY SPLICE OR PRE-APPROVED ACCEPTABLE EQUAL AND SHALL BE WATERTIGHT TO PROVIDE ELECTRICAL CONTINUITY.
4. ALL TRACER WIRE SHALL BE TESTED FOR CONTINUITY IN THE PRESENCE OF THE PUBLIC WORKS INSPECTOR PRIOR TO ASPHALT PLACEMENT. ANY TRACER WIRE FOUND NOT TO BE CONTINUOUS AFTER TESTING SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR PRIOR TO ASPHALT PLACEMENT.



TRACER WIRE INSTALLATION

CITY STANDARD STREET SECTION (CURB & GUTTER)



PROJECT ENGINEER
DATE

1 JAN '19 DQS CHANGED TRACING TO TRACER (TYP.)

REV. DATE APPR.

SCALE:

N. T.S.

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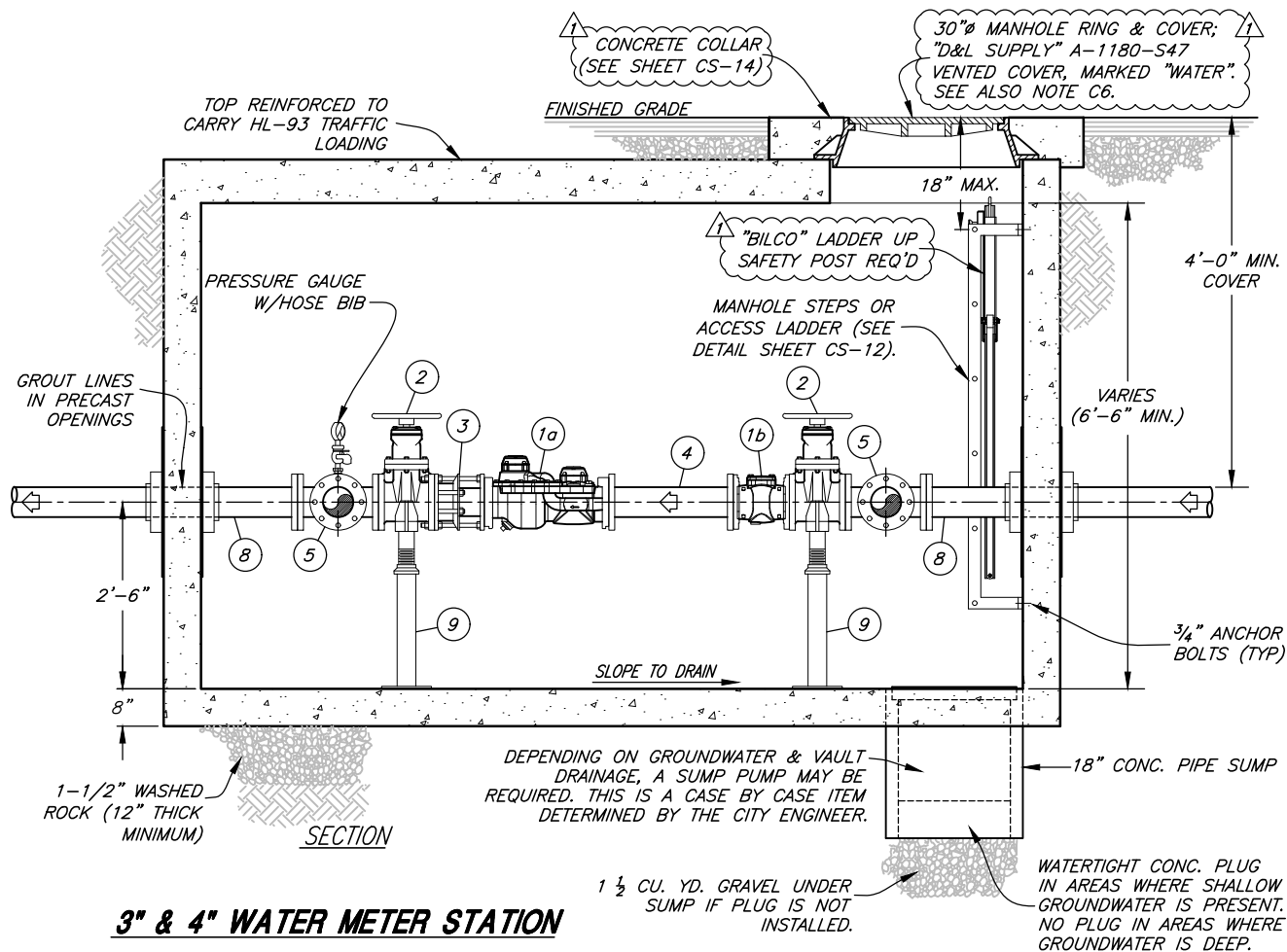
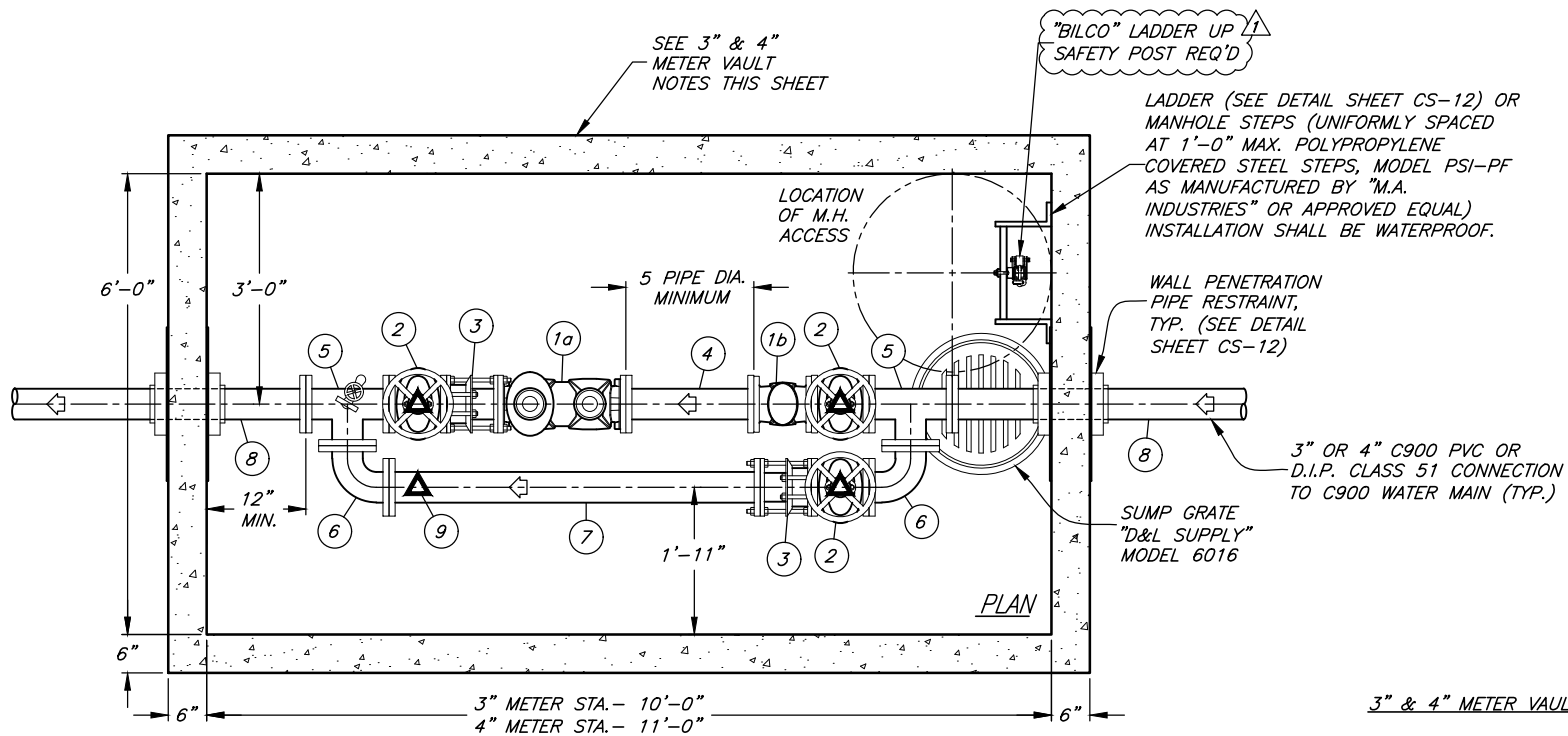
PLEASANT VIEW CITY
PUBLIC WORKS STANDARDS
CULINARY WATER - TRACER WIRE
INSTALLATION DETAILS

SHEET:

CS-09

OF 22 SHEETS

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3" & 4" WATER METER STATION

PIPE & FITTING SCHEDULE

NO.	DESCRIPTION (3" & 4" METER STA.)	JOINT TYPE	3" LINE	4" LINE
1a	"BADGER" RECORDALL COMPOUND SERIES METER	FL	CSM-3"	CSM-4"
1b	"BADGER" DUAL-FLANGE PLATE STRAINER	FL	3"	4"
2	"MUELLER" RESILIENT WEDGE GATE VALVE W/ HANDWHEEL	FL	A-2362	A-2361
3	"ROMAC" DJ400 DISMANTLING JOINT	FL	3"	4"
4	SPOOL PIECE	FL	3"	4"
5	TEE	FL	3"	4"
6	90° ELBOW	FL	3"	4"
7	SPOOL PIECE	FL	3"	4"
8	NIPPLE	FLxPE	3"	4"
9	"CLOW" F-1608 OR "ANVIL" #264 GALV. PIPE SUPPORT W/ COMPANION FLANGE & VARIABLE HEIGHT NIPPLE (4 EA REQ'D)			

NOTE:
ALL SPECIFIED BRANDS OF MATERIALS
SHOWN ON THESE DRAWINGS ARE "CITY
STANDARDS." OTHER EQUIVALENT BRANDS
MAY BE USED WITH THE PRIOR APPROVAL
OF THE CITY ENGINEER AND THE CITY
WATER SYSTEM SUPERINTENDENT.

NO.	DESCRIPTION (1 1/2" & 2" METER STA.)	JOINT TYPE	1 1/2" LINE	2" LINE
10	"BADGER" M120 RECORDALL DISC METER	FL	1 1/2"	--
	"BADGER" M170 RECORDALL DISC METER	FL	--	2"
11	METER YOKE (18" HEIGHT) "MUELLER" B2423-2 OR "FORD" VBHH77-xxBHC-11-77-NL OR "FORD" VBHH77-xxB-44-77-AWT-Q-NL	--	1 1/2"	2"
12	"MUELLER" 110 COMPRESSION CONNECTION COUPLING OR "FORD" C84-xx-Q-NL	--	1 1/2"	2"

1 1/2" & 2" METER NOTES:

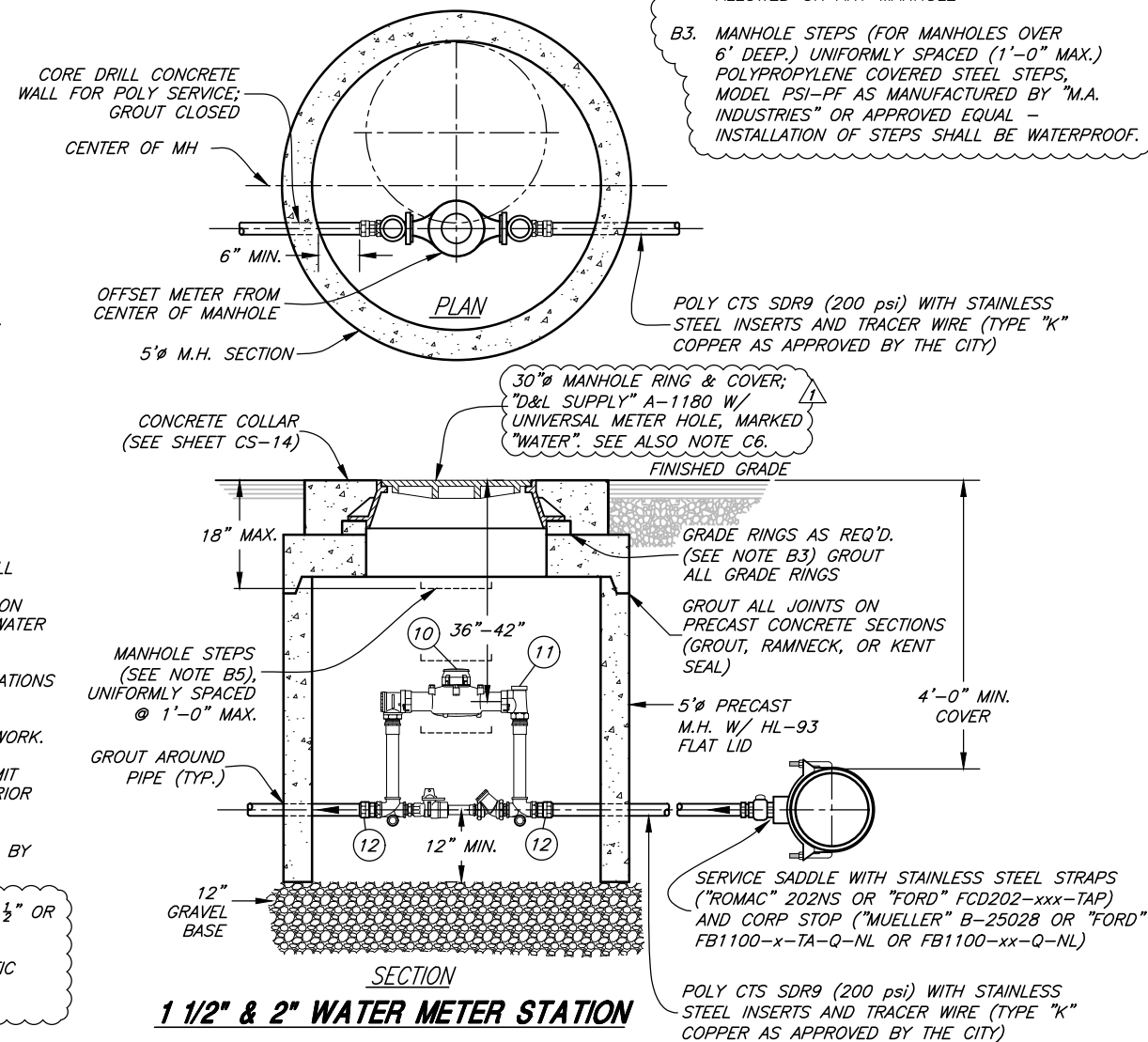
- 1 1/2" SERVICE LINE-13" METER
2" SERVICE LINE-17" METER
- NO MORE THAN 12" OF GRADE RINGS TO BE
ALLOWED ON ANY MANHOLE
- MANHOLE STEPS (FOR MANHOLES OVER
6' DEEP.) UNIFORMLY SPACED (1'-0" MAX.)
POLYPROPYLENE COVERED STEEL STEPS,
MODEL PSI-PF AS MANUFACTURED BY "M.A.
INDUSTRIES" OR APPROVED EQUAL -
INSTALLATION OF STEPS SHALL BE WATERPROOF.

3" & 4" METER VAULT NOTES:

- ALL FITTINGS OUTSIDE OF THE VAULT
ARE TO BE DUCTILE IRON MJ WITH
THRUST RESTRAINT RETAINER GLANDS
("ROMAC", MJRG, OR APPROVED EQUAL)
- PENETRATION WALLS NEED TO BE
ADEQUATELY DESIGNED STRUCTURALLY
FOR ANTICIPATED THRUST.
- THE PRECAST VAULT MANUFACTURER IS
RESPONSIBLE FOR DESIGN RELATED TO
TRAFFIC LOADING AND THRUST.
VERIFICATION OF PROPER DESIGN MUST
BE PROVIDED TO THE CITY BY THE
DEVELOPER, CONTRACTOR, OR PROPERTY
OWNER AS THE CASE MAY BE.
- ALL FITTINGS SHALL BE AWWA C-110
WITH 125 LB. FLANGES. ALL PIPING
SHALL BE DUCTILE IRON PIPE CLASS
350 P.S.I. MIN.

GENERAL NOTES:

- PROPERTY OWNER OR CONTRACTOR SHALL
PAY FOR ALL COSTS OF INSTALLATION
INCLUDING ALL MATERIALS, ALL EXCAVATION
AND FILL, ASPHALT REPLACEMENT AND WATER
MAIN CONNECTION.
- INSPECTION OF ALL WATER LINE INSTALLATIONS
WILL BE DONE BY THE CITY WATER
DEPARTMENT, WITH A 48 HOUR MINIMUM
NOTICE REQUIRED PRIOR TO START OF WORK.
- IF APPLICABLE, A CITY EXCAVATION PERMIT
MUST BE REQUESTED AND APPROVED PRIOR
TO START OF WORK.
- "BLUE" BOLTS AND NUTS ARE REQUIRED BY
THE CITY.
- CONTRACTOR TO SUPPLY ALL METERS 1 1/2" OR
LARGER.
- FOR METER STATIONS LOCATED IN TRAFFIC
AREAS, CONTACT CITY FOR METER LID
SPECIFICATIONS.



1 1/2" & 2" WATER METER STATION



1	JAN '19	DQS	ADDED LADDER UP; REVISED NOTES
REV.	DATE	APPR.	

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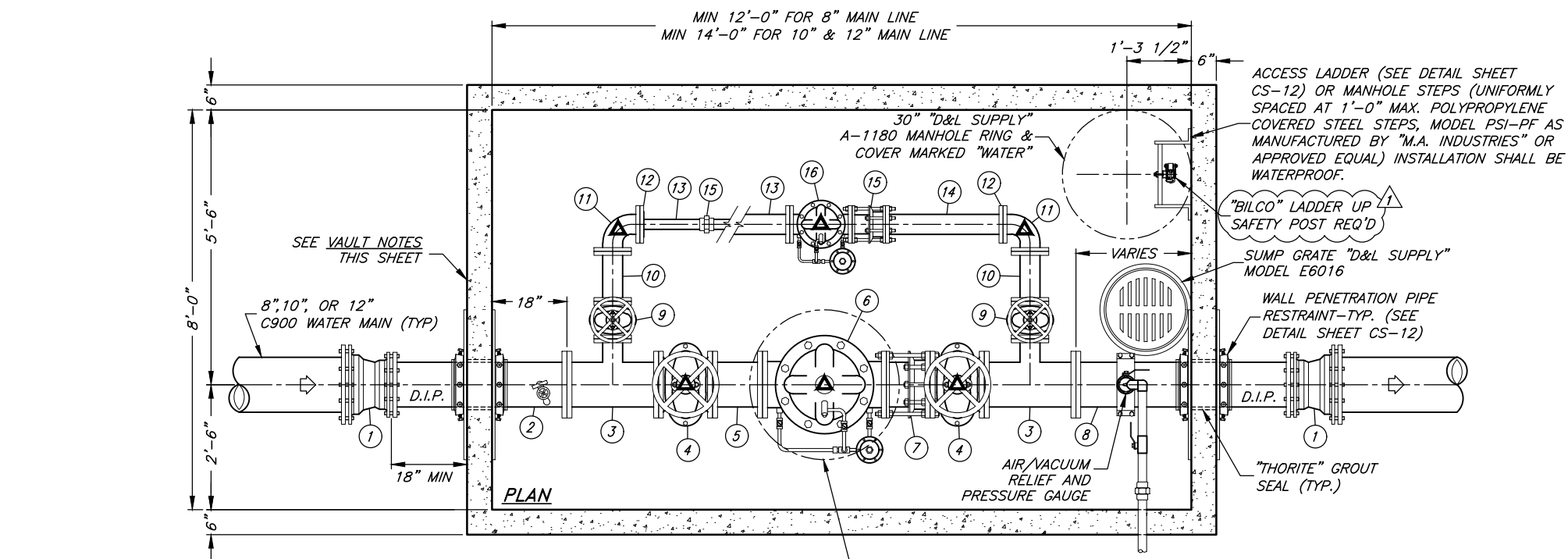
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PUBLIC WORKS STANDARDS


CULINARY WATER - STANDARD WATER METER STATIONS

SHEET:

CS-10

OF 22 SHEETS



NO.	DESCRIPTION	JOINT TYPE	8" LINE	10" LINE	12" LINE
1	D.I. REDUCER (2)	MXxMJ	8"x6"	10"x8"	12"x10"
2	D.I. NIPPLE PIECE	FLxPE	6"	8"	10"
3	D.I. REDUCING TEE (2)	FL	6"x6"x4"	8"x8"x4"	10"x10"x4"
4	"MUELLER" A-2361 GATE VALVE W/ HANDWHEEL (2)	FL	6"	8"	10"
5	12" D.I. SPOOL PIECE	FL	6"	8"	10"
6	"CLA-VAL" 90-01 PRESSURE REDUCTION VALVE	FL	6"	8"	10"
7	"ROMAC" DJ400 DISMANTLING JOINT	FL	6"	8"	10"
8	D.I. NIPPLE PIECE	FLxPE	6"	8"	10"
9	"MUELLER" A-2361 GATE VALVE W/ HANDWHEEL (2)	FL	4"	4"	4"
10	12" D.I. SPOOL PIECE	FL	4"	4"	4"
11	D.I. 90° ELBOW (2)	FL	4"	4"	4"
12	BLIND FLANGE W/ THR. CONNECTION (2)	FLxTHR.	4"x2"	--	--
13	D.I. SPOOL PIECE	FL	--	4"	4"
	BRASS PIPE	THR.	2"	--	--
14	D.I. SPOOL PIECE	FL	--	4"	4"
	BRASS PIPE	THR.	2"	--	--
15	"ROMAC" DJ400 DISMANTLING JOINT	FL	--	4"	4"
	BRASS UNION	THR.	2"	--	--
16	"CLA-VAL" 90-01 PRESSURE REDUCTION VALVE	FL	--	4"	4"
		THR.	2"	--	--
17	"CLOW" F-1608 OR "ANVIL" #264 GALV. PIPE SUPPORT W/ 3" COMPANION FLANGE & VARIABLE HEIGHT 3" NIPPLE (6 EA REQ.)				 SYMBOL

PRV GENERAL SPECIFICATIONS:

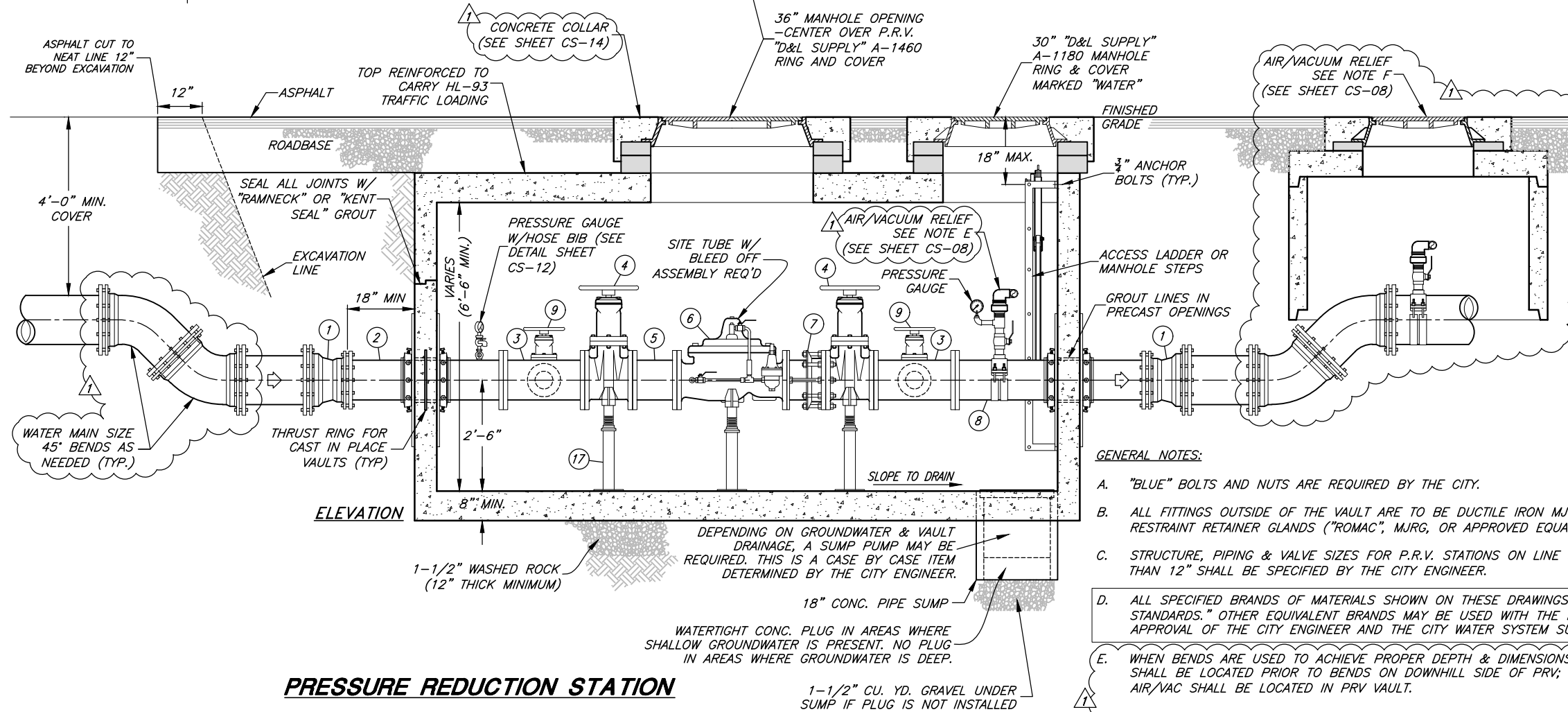
- A1. PRV TO BE CLA-VAL #90-01 YBCSKC
- A2. 150 # FLANGED FOR 250 PSI WORKING PRESSURE,
300# FLANGED IF GREATER THAN 250 PSI
- A3. DUCTILE IRON BODY GLOBE PATTERN
- A4. EPOXY LINED AND COATED
- A5. STAINLESS STEEL INTERNAL TRIM
- A6. BRONZE PILOT CONTROLS
- A7. STAINLESS STEEL TUBES & FITTINGS
- A8. SPRING RANGES FOR PRESSURE REDUCING PILOT
- A9. X101 VALVE POSITION INDICATOR
- A10. CK2 ISOLATION BALL VALVES (STAINLESS)
- A11. CV FLOW CONTROL (OPENING)

COATING NOTES:

- B1. THE P.R.V. VALVE SHALL INCLUDE FACTORY INSTALLED INTERIOR EPOXY COATING.*
- B2. ALL NEW AND EXISTING PIPING, VALVES, FITTINGS, METERS, ETC, INSIDE THE VAULT SHALL BE EPOXY PAINTED.*
- B3. METAL SURFACES TO BE PAINTED SHALL BE PRIMED AND THEN PAINTED W/ TWO COATS OF EPOXY PAINT.*
- B4. COLORS AS DIRECTED BY THE CITY ENGINEER OR CITY WATER SYSTEM SUPERINTENDENT.*

VAULT NOTES:

- C1. PRE-PLUMBED PRV VAULTS ARE THE REFERRED OPTION FOR INSTALLATION. THE USE AND LOCATION OF A PRE-PLUMBED PRV VAULT SHALL BE AS DIRECTED BY THE CITY ENGINEER FOLLOWING REVIEW OF CURRENT SITE CONDITIONS.
- C2. WHERE APPLICABLE, PRESSURE RELIEF VALVE ASSEMBLY MAY BE REQUIRED. THIS IS A CASE BY CASE ITEM DETERMINED BY THE CITY WATER DEPARTMENT (PRV VAULT WILL NEED TO BE LENGTHENED TO ACCOMMODATE SUCH VALVE)
- C3. PRECAST CONCRETE STRUCTURE CAN BE REPLACED WITH A CAST-IN-PLACE CONCRETE VAULT. SUBMIT ENGINEERED CONSTRUCTION PLANS WITH REBAR DETAILS TO CITY ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION.
- C4. PENETRATION WALLS NEED TO BE ADEQUATELY DESIGNED STRUCTURALLY FOR ANTICIPATED THRUST.
- C5. THE PRECAST VAULT MANUFACTURER IS RESPONSIBLE FOR DESIGN RELATED TO HL-93 TRAFFIC LOADING AND THRUST. VERIFICATION OF PROPER DESIGN MUST BE PROVIDED TO THE CITY BY THE DEVELOPER, CONTRACTOR, OR PROPERTY OWNER AS THE CASE MAY BE.




PRESSURE REDUCTION STATION

GENERAL NOTES:

- A. "BLUE" BOLTS AND NUTS ARE REQUIRED BY THE CITY.
- B. ALL FITTINGS OUTSIDE OF THE VAULT ARE TO BE DUCTILE IRON MJ WITH THRUST RESTRAINT RETAINER GLANDS ("ROMAC", MJRG, OR APPROVED EQUAL)
- C. STRUCTURE, PIPING & VALVE SIZES FOR P.R.V. STATIONS ON LINE SIZES GREATER THAN 12" SHALL BE SPECIFIED BY THE CITY ENGINEER.
- D. ALL SPECIFIED BRANDS OF MATERIALS SHOWN ON THESE DRAWINGS ARE "CITY STANDARDS." OTHER EQUIVALENT BRANDS MAY BE USED WITH THE PRIOR APPROVAL OF THE CITY ENGINEER AND THE CITY WATER SYSTEM SUPERINTENDENT.
- E. WHEN BENDS ARE USED TO ACHIEVE PROPER DEPTH & DIMENSIONS, AIR/VAC SHALL BE LOCATED PRIOR TO BENDS ON DOWNHILL SIDE OF PRV; OTHERWISE AIR/VAC SHALL BE LOCATED IN PRV VAULT.
- F. ADD HIGH PRESSURE RELIEF VALVE IN PRVs WHERE DIRECTED BY CITY/ENGINEER.



 PROJECT ENGINEER 1/10/2019 DATE	1	JAN '19	DQS	REVISION TO DETAIL
	REV	DATE	APPD	

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CULINARY WATER - PRESSURE REDUCTION STATION

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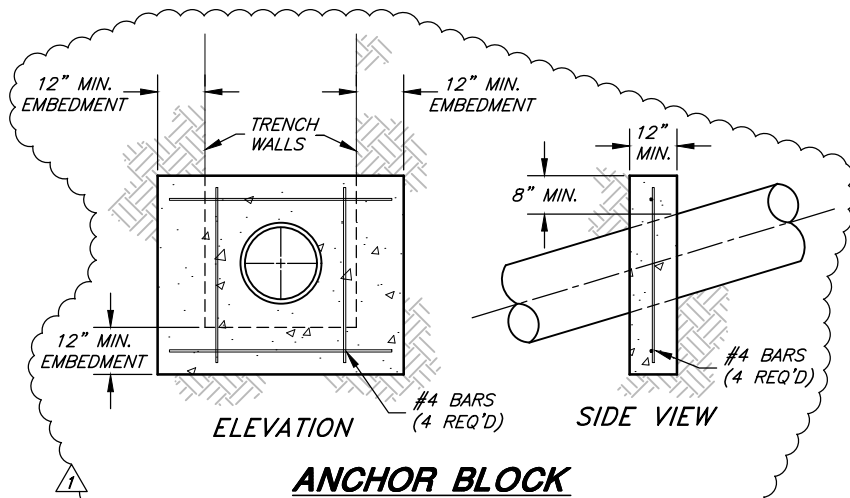
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2 SHEETS

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GENERAL NOTES:

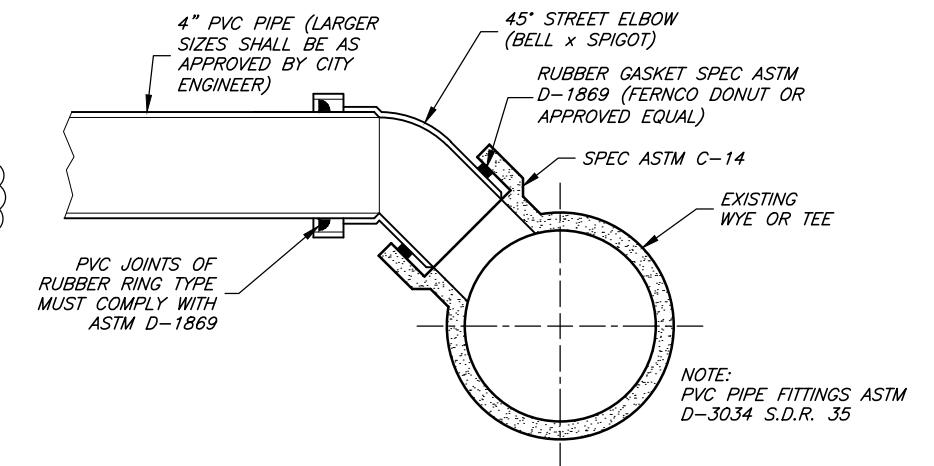
- ALL SANITARY SEWER LATERAL CONNECTIONS ON SEWER MAINS IN NEW SUBDIVISIONS SHALL BE MADE WITH IN LINE PRE-FORMED WYES OR TEES UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- FLOWLINE ELEVATION OF LATERALS SHALL EQUAL THE INSIDE TOP OF PIPE ON MAINLINE AT THE CONNECTING POINT (THE LATERAL TAP SHALL BE IN THE TOP QUARTER OF THE SEWER MAIN LINE PREFERABLY IN THE 10:00 OR 2:00 POSITION).
- SANITARY SEWER SERVICE LATERAL CONNECTIONS SHALL NOT BE ALLOWED IN SEWER MANHOLES.
- SANITARY SEWER MAINS AND LATERALS SHALL BE "GREEN" IN COLOR. LAND DRAIN MAINS AND LATERALS SHALL BE SCHEDULE 40 "WHITE" IN COLOR. IRRIGATION PIPES SHALL BE "PURPLE" IN COLOR. PREVIOUS YEARS PIPE COLORS VARY THROUGHOUT THE CITY. CONTRACTOR TO VERIFY EXISTING PIPE PRIOR TO MAKING ANY CONNECTION.
- INSERTA TEE PRODUCT IS NOT APPROVED BY THE CITY.
- ALL CLEANOUTS SHALL BE MARKED AND FITTED WITH A BRASS PLUG FOR LOCATION PURPOSES.
- ALL CULINARY WATER MAINS AND SERVICES MUST MAINTAIN A MINIMUM SEPARATION ABOVE ALL SEWER MAINS AND LATERALS OF 18" VERTICAL AND 10'-0" HORIZONTAL IN ACCORDANCE WITH THE STATE OF UTAH DIVISION OF DRINKING WATER (DDW) RULES SECTION R309-550-7. EXCEPTIONS MUST BE APPROVED BY DDW.
- ALL SANITARY SEWER LINES SHALL BE INSPECTED BY MEANS OF VIDEO CAMERA WHEN CONSTRUCTED.
- STAMPED CONCRETE CURB MARKS USED FOR LATERAL LOCATING ARE REQUIRED BY THE CITY. STAMPED CURB MARKS SHALL BE INSTALLED DURING ALL NEW CONSTRUCTION OR RESTORED WHEN REPLACING DAMAGED CURB & GUTTER DUE TO ANY CONSTRUCTION RELATED ACTIVITY. STAMP "S" FOR SANITARY SEWER, "W" FOR CULINARY WATER, AND "L" FOR LAND DRAIN.
- DOWNSTEAM LAND DRAIN CONNECTION TO AN EXISTING STORM DRAIN SYSTEM IS REQUIRED.
- TRACER WIRE SHALL BE INSTALLED ON ALL LAND DRAIN LATERALS.



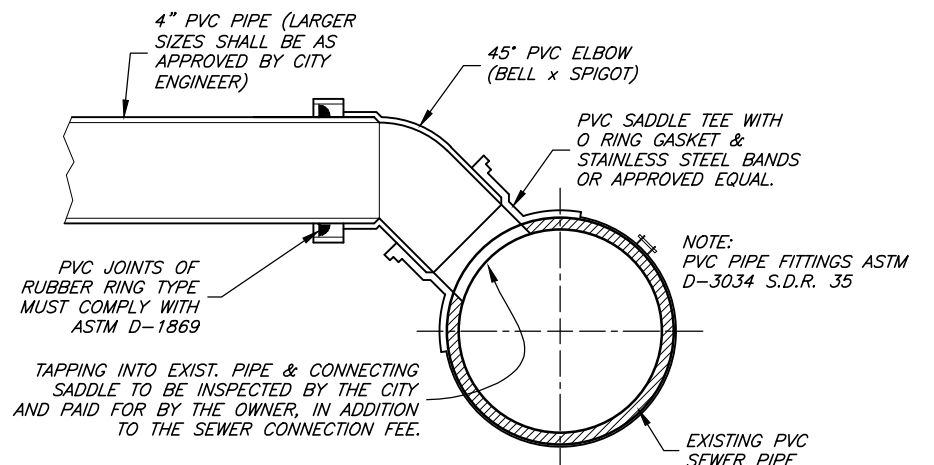
ANCHOR BLOCK NOTES:

- A. PIPE ANCHOR BLOCKS SHALL BE INSTALLED ON ALL CULINARY WATER, STORM DRAIN, SANITARY SEWER, AND IRRIGATION WATER LINES WHERE SLOPE EXCEEDS 20%.
- B. SPACING:

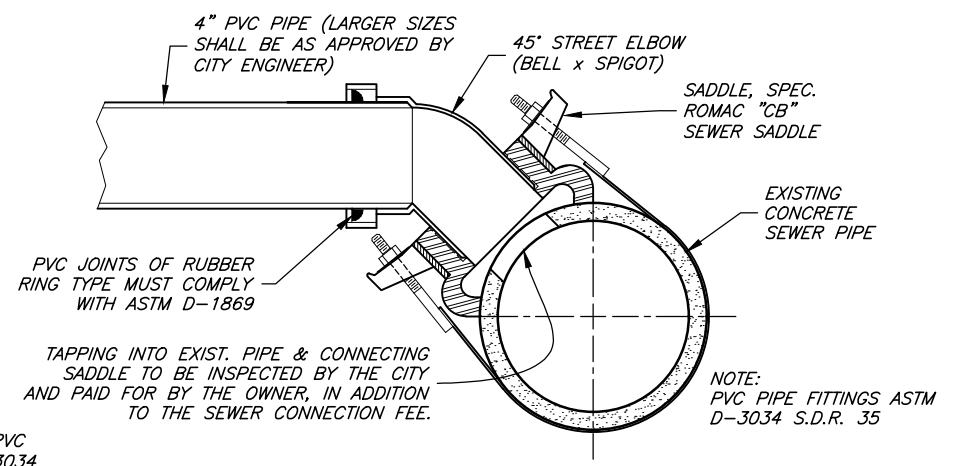
SLOPE	SPACING
20%-35%	36'
35%-50%	24'
50%+	16'



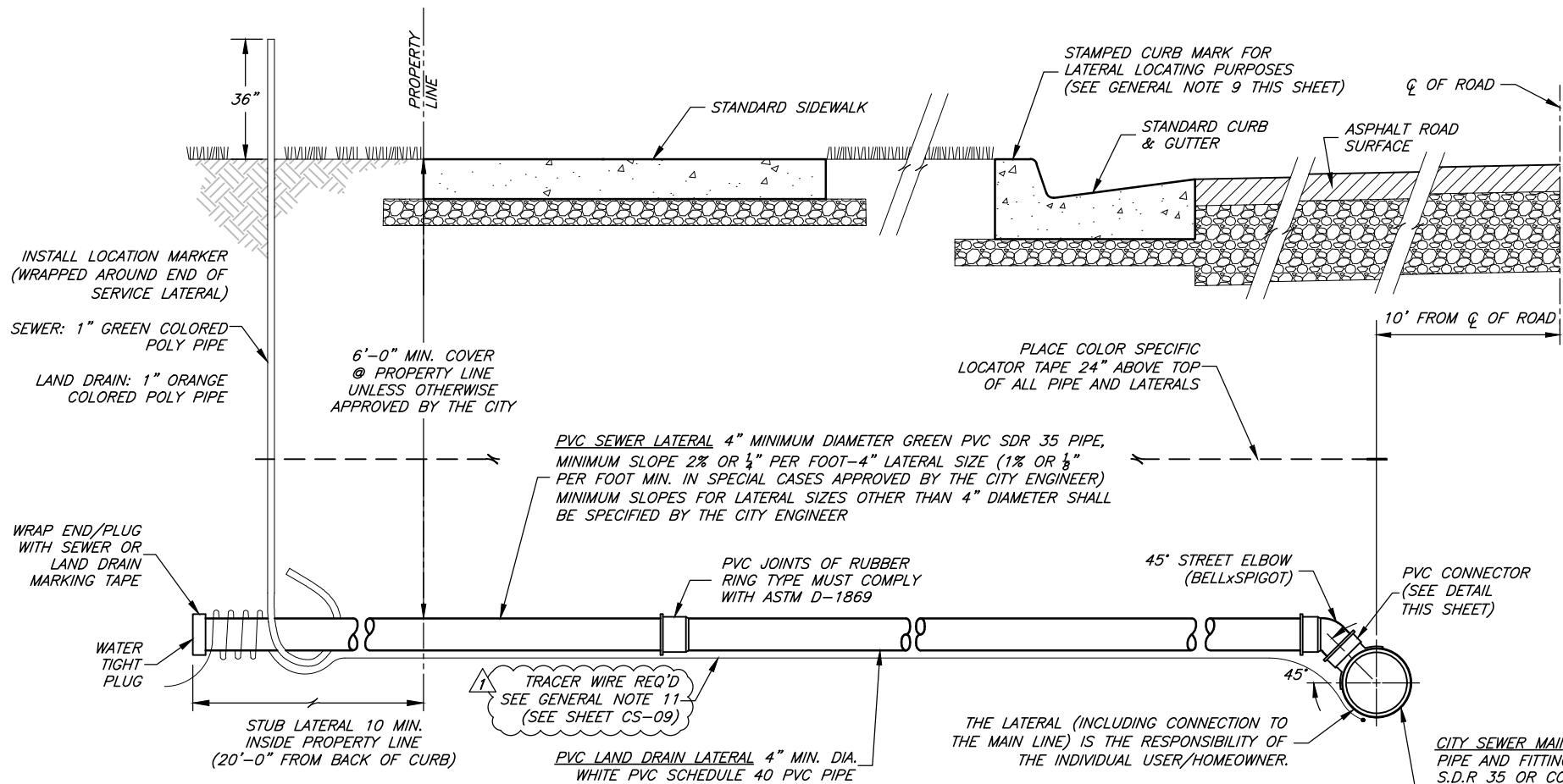
CONNECTING INTO EXISTING WYE OR TEE



TAPPING INTO EXISTING PVC PIPE



TAPPING INTO EXISTING CONCRETE PIPE



TYPICAL SEWER / LAND DRAIN LATERALS CONNECTION



REV.	DATE	APPR.	1	JAN '19	DQS	DELETED EX. DETAIL; ADDED DETAIL; MODIFIED NOTES

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SANITARY SEWER - LATERAL & CONNECTION DETAILS

SHEET:

CS-13

OF 22 SHEETS

- A1. ALL CONCRETE COLLARS TO BE INSTALLED WITHIN 14 DAYS AFTER PAVING.
- B1. COLLARS AROUND MANHOLES AND CULINARY WATER VALVES ARE TO BE ROUND.
- C1. COLLARS AROUND IRRIGATION VALVES ARE TO BE SQUARE.
- D1. FIBER MESH SHALL BE ADDED TO ALL CONCRETE.



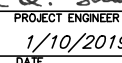
- A. *USE DROP MANHOLE ONLY WHEN DROP EXCEEDS 2'-0". (UAC R317-3)*
- B. *DROP MANHOLE SHALL CONSIST OF ASTM D3034 SDR 35 PVC PIPE WITH SDR 35 PVC GASKETED FITTINGS.*
- C. *DUE TO THE UNEQUAL EARTH PRESSURES THAT WOULD RESULT FROM THE BACKFILLING OPERATION IN THE VICINITY OF THE MANHOLE, THE ENTIRE OUTSIDE DROP CONNECTIONS SHALL BE ENCASED IN CONCRETE. (UAC R317-3)*
- D. *DROP MANHOLES SHOULD BE USED ON STREETS WITH GRADES 8% OR GREATER OR AS OTHERWISE DIRECTED BY THE CITY ENGINEER.*



1. SECURE INVERTS IN ALL MANHOLES DURING CONSTRUCTION SO AS TO PREVENT GRAVEL AND OTHER DEBRIS FROM COLLECTING INSIDE.
2. A LARGER DIAMETER MANHOLE MAY BE REQUIRED BY THE DESIGN ENGINEER AFTER EVALUATION OF THE NUMBER, SIZE, AND ANGLE OF THE PIPES THAT CONNECT TO THE MANHOLE.
3. NO MORE THAN 12" OF GRADE RINGS TO BE ALLOWED ON ANY MANHOLE.
4. ALL TERMINATING SEWER MAINS SHALL END WITH A CITY STANDARD MANHOLE.
5. SERVICE LATERAL CONNECTIONS SHALL NOT BE ALLOWED IN SEWER MANHOLES.
6. ALL SANITARY SEWER LINES SHALL BE INSPECTED BY MEANS OF VIDEO CAMERA AND AIR TESTED WHEN CONSTRUCTED. SEE APWA 33 08 00 AND CITY MODIFICATIONS FOR MORE INFORMATION.
7. WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE INCOMING SEWER AND MANHOLE INVERT IS LESS THAN 24 INCHES, THE INVERT SHOULD BE FILLETED.



TEMPORARY (USE ONLY UPON APPROVAL FROM THE CITY ENGINEER)



1	JAN '19	DQS	ADDED DETAIL; REVISED NOTES
REV.	DATE	APPR.	

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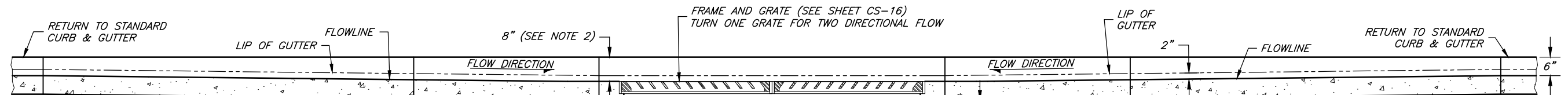
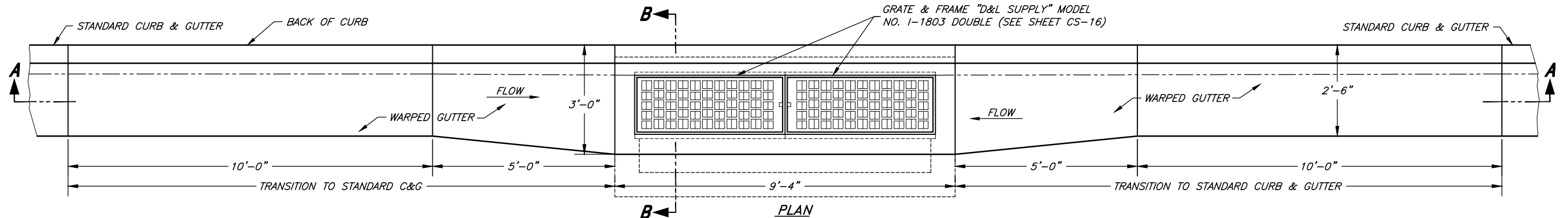
SANITARY SEWER - TYPICAL MANHOLES & DETAILS

SHEET:

CS-14

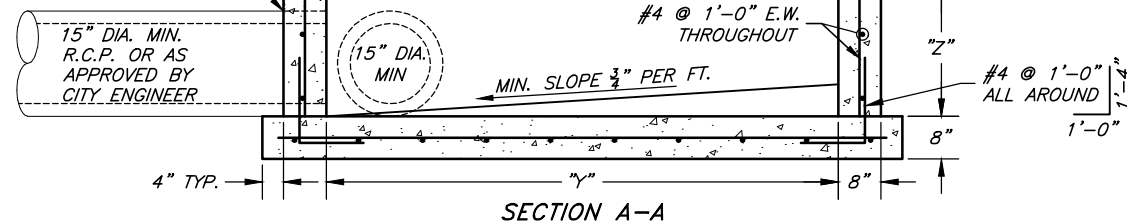
22 SHEETS

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STANDARD CATCH BASIN DIMENSION TABLE					
PIPE SIZE (IN.)	"X"	SINGLE CATCH BASIN		DOUBLE	"Z" MIN.
		"Y" (ANGLE A)	"Y" (ANGLE B)		
15	2'-6"	4'-0"	4'-0"	8'-0"	2'-0"
18	2'-6"	4'-0"	4'-0"	8'-0"	2'-6"
21	4'-0"	4'-0"	4'-0"	8'-0"	3'-0"
24	4'-0"	4'-0"	5'-0"	8'-0"	3'-0"
30	4'-0"	4'-0"	6'-0"	8'-0"	3'-6"
36	4'-0"	5'-0"	6'-0"	8'-0"	4'-0"
42	6'-0"	6'-0"	7'-0"	8'-0"	5'-0"
48	6'-0"	6'-0"	8'-0"	8'-0"	5'-6"

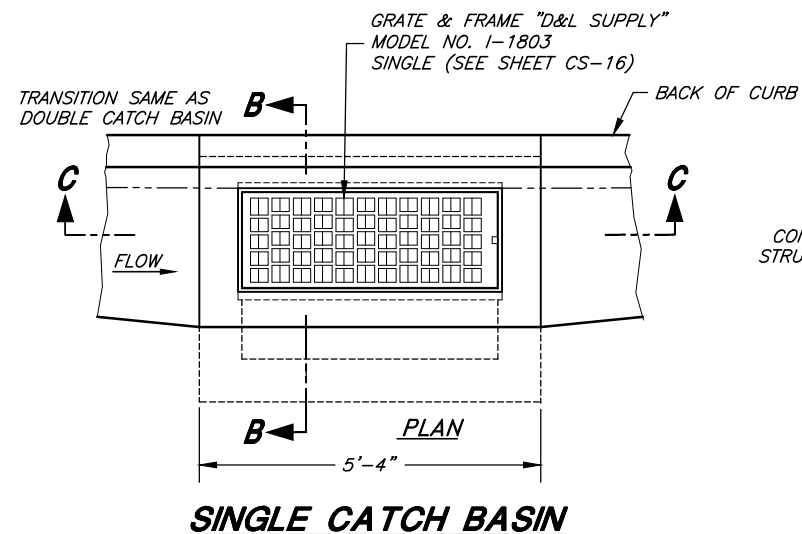
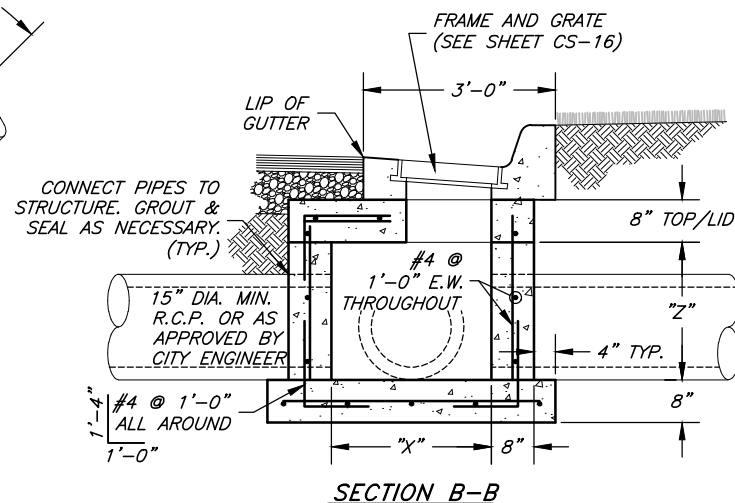
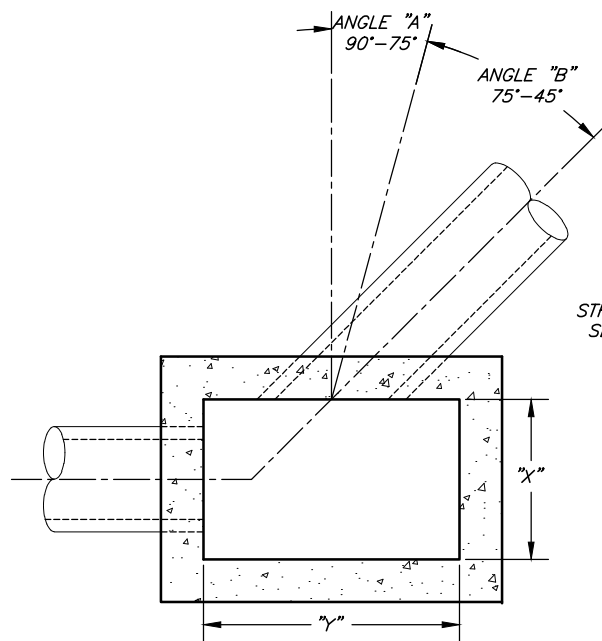
CONNECT PIPES TO STRUCTURE. GROUT & SEAL AS NECESSARY. (TYP.)



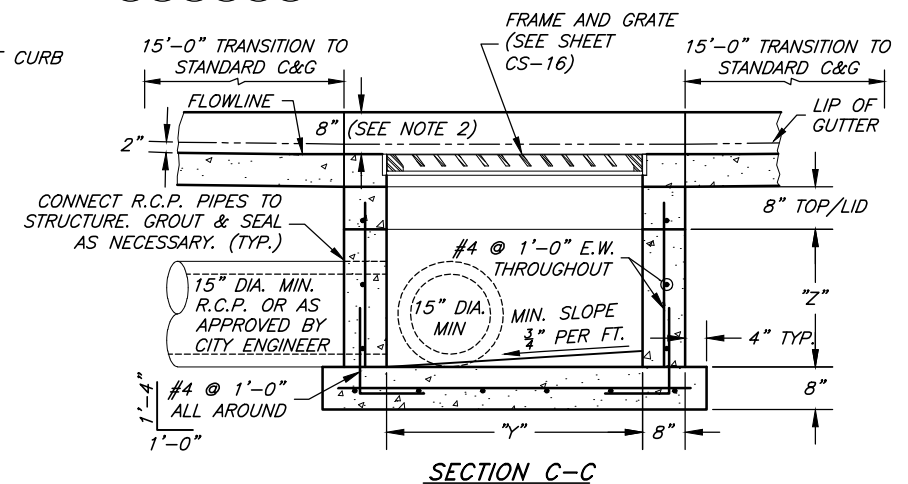
DOUBLE CATCH BASIN

GENERAL NOTES:

- ALL CATCH BASIN BOX SIZES REFLECT DIMENSIONS FOR THE MINIMUM 15" PIPE SIZE. BOX DIMENSIONS MUST INCREASE PROPORTIONALLY TO ACCOMMODATE LARGER PIPE SIZES.
- DEPTH MAY VARY FROM 6" TO 10" AS DIRECTED BY THE CITY ENGINEER.
- CAST-IN-PLACE CONCRETE CATCH BASINS CAN BE REPLACED WITH PRECAST CONCRETE CATCH BASINS WITH HL-93 DECK LOADING AND COMPARABLE SIZE.
- ALL BOXES SHALL BE FORMED ON THE INSIDE AND OUTSIDE OF THE BOX AND INSPECTED BY THE CITY PRIOR TO THE PLACING OF CONCRETE.
- DOUBLE CATCH BASINS WILL BE REQUIRED IN LOCATIONS SPECIFIED BY THE CITY ENGINEER (TYPICALLY IN LOW SPOTS OR WHERE ADDITIONAL INLET CAPACITY IS NEEDED).
- STORM DRAIN LINES SHALL BE 15 INCH MINIMUM DIAMETER REINFORCED CONCRETE PIPE (RCP), OF APPROPRIATE CLASS.
- CURB INLET WITH A GRATE & CURB HOOD MAY BE USED AS REQUIRED AND/OR APPROVED BY THE CITY.
- ALTERNATE STRUCTURE (E.G. COMBO BOXES) MAY BE USED WITH APPROVAL OF THE CITY ENGINEER. STRUCTURES SHALL FOLLOW APWA STANDARD PLANS AND BE A COMMON SIZE.



SINGLE CATCH BASIN



SECTION C-C



PROJECT ENGINEER
1/10/2019
DATE

REV.	DATE	APPR.
1	JAN '19	DQS
2		ADDED NOTE

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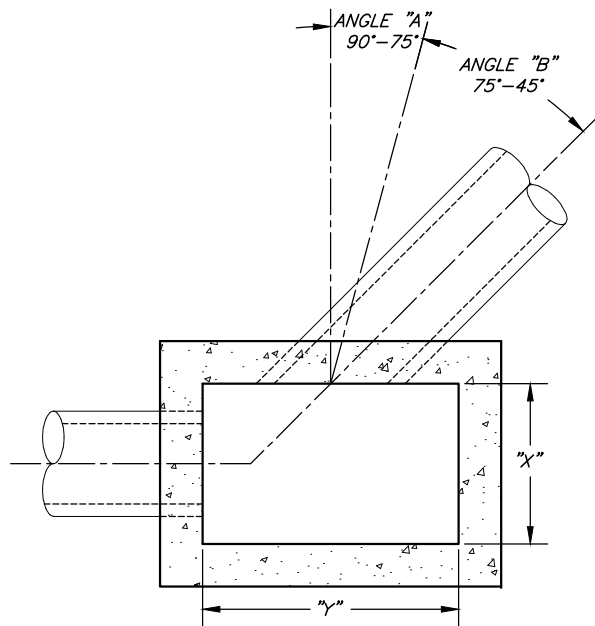
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STORM DRAIN - SINGLE & DOUBLE CATCH BASIN DETAILS

SHEET:
CS-15
OF 22 SHEETS

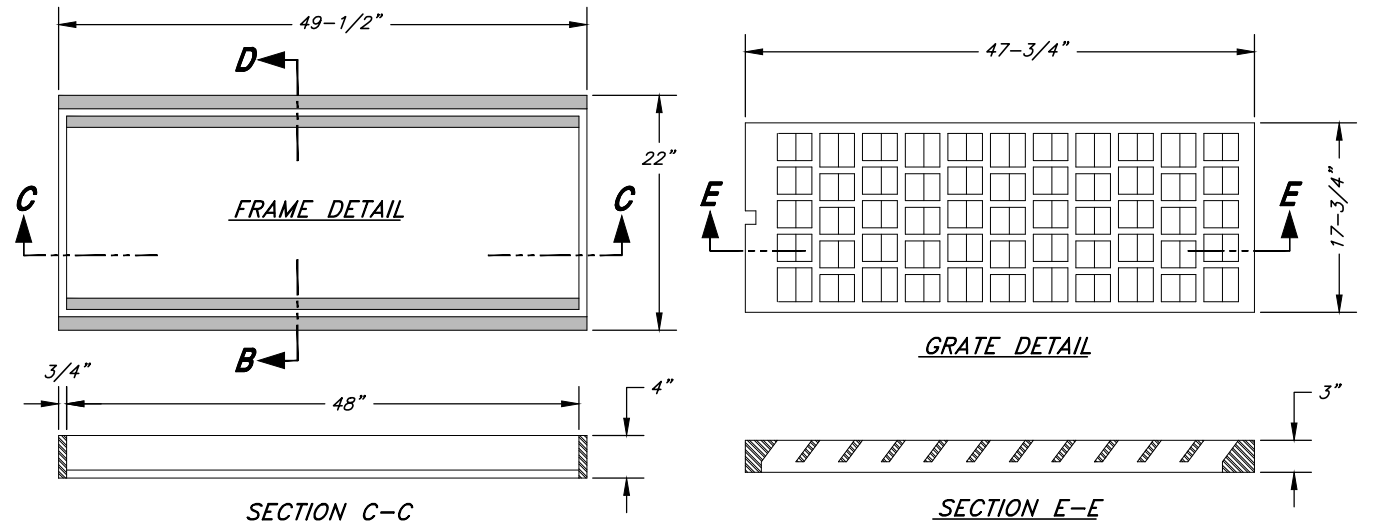
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PIPE SIZE (IN.)	"X"	INLET BOX		"Z" MIN.
		"Y" (ANGLE A)	"Y" (ANGLE B)	
15	2'-6"	4'-0"	4'-0"	2'-0"
18	2'-6"	4'-0"	4'-0"	2'-6"
21	4'-0"	4'-0"	4'-0"	3'-0"
24	4'-0"	4'-0"	5'-0"	3'-0"
30	4'-0"	4'-0"	6'-0"	3'-6"
36	4'-0"	4'-0"	6'-0"	4'-0"
42	6'-0"	6'-0"	7'-0"	5'-0"
48	6'-0"	6'-0"	8'-0"	5'-6"

GENERAL NOTE:

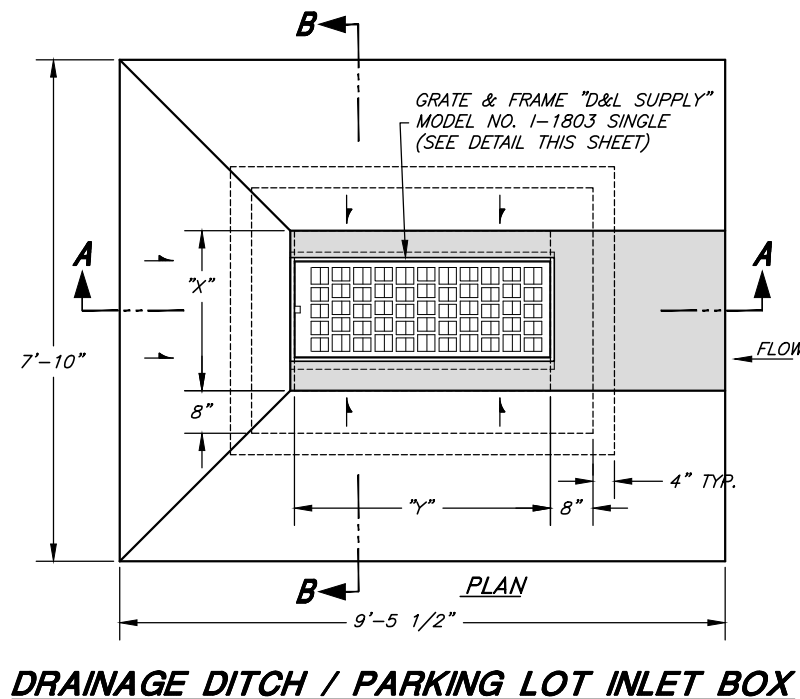
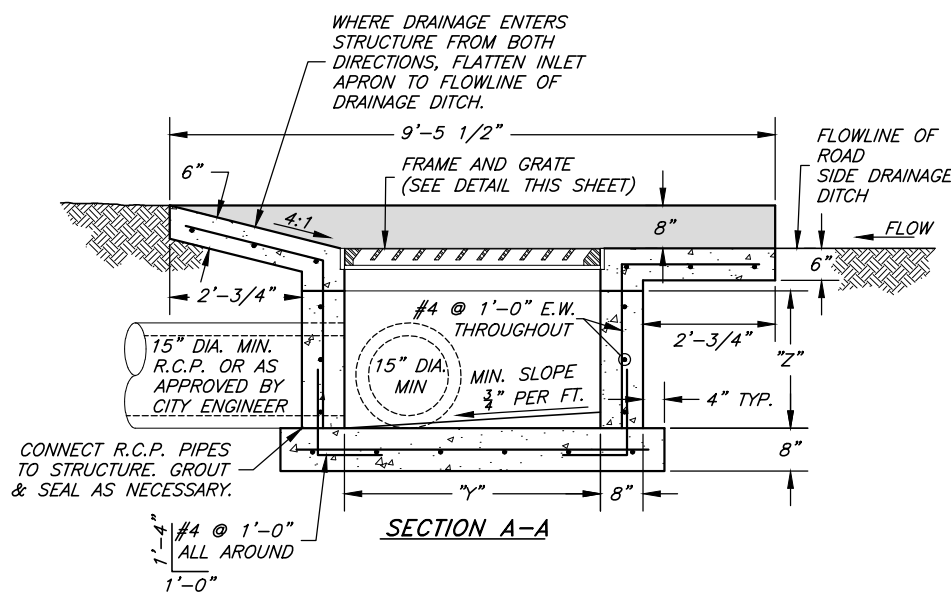
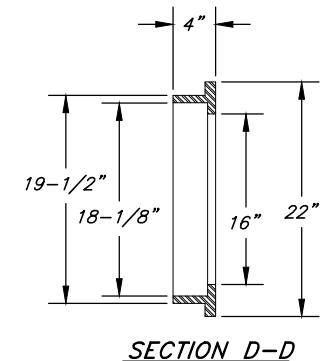
STORM DRAIN LINES SHALL BE 15 INCH MINIMUM DIAMETER REINFORCED CONCRETE PIPE (RCP), OF APPROPRIATE CLASS.



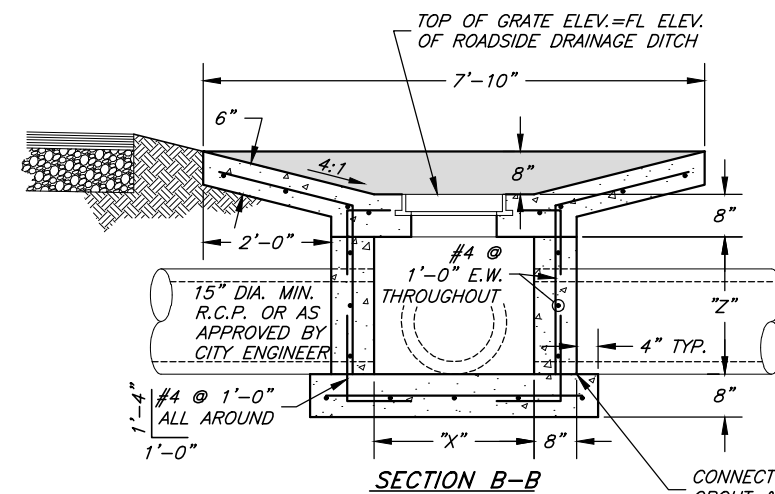
FRAME & GRATE DETAILS

FRAME AND GRATE NOTES:

- A1. GRATE AND FRAME SHALL BE AS MANUFACTURED BY "D&L SUPPLY" I-1803
- B1. BICYCLE SAFE GRATE REQUIRED.
- C1. "OR EQUAL" GRATES AND FRAMES WILL BE CONSIDERED AS APPROVED BY THE CITY ENGINEER.



DRAINAGE DITCH / PARKING LOT INLET BOX



DRAINAGE BOX NOTES:

1. ALL BOX SIZES REFLECT DIMENSIONS FOR THE MINIMUM 15"Ø PIPE SIZE. BOX DIMENSIONS MUST INCREASE PROPORTIONALLY TO ACCOMMODATE LARGER PIPE SIZES. (SEE TABLE THIS SHEET)
2. CAST-IN-PLACE CONCRETE STRUCTURES CAN BE REPLACED WITH PRECAST CONCRETE STRUCTURES WITH HL-93 DECK LOADING AND COMPARABLE SIZE.
3. ALL BOXES SHALL BE FORMED ON THE INSIDE AND OUTSIDE OF THE BOX AND INSPECTED BY THE CITY PRIOR TO THE PLACING OF CONCRETE.



PROJECT ENGINEER
1/10/2019
DATE

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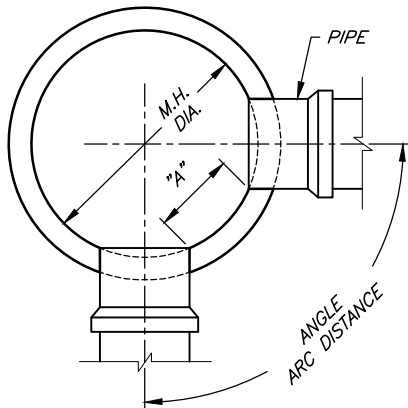
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STORM DRAIN - DRAINAGE DITCH INLET BOX & GENERAL GRATE AND FRAME DETAILS

SHEET:
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OF 22 SHEETS

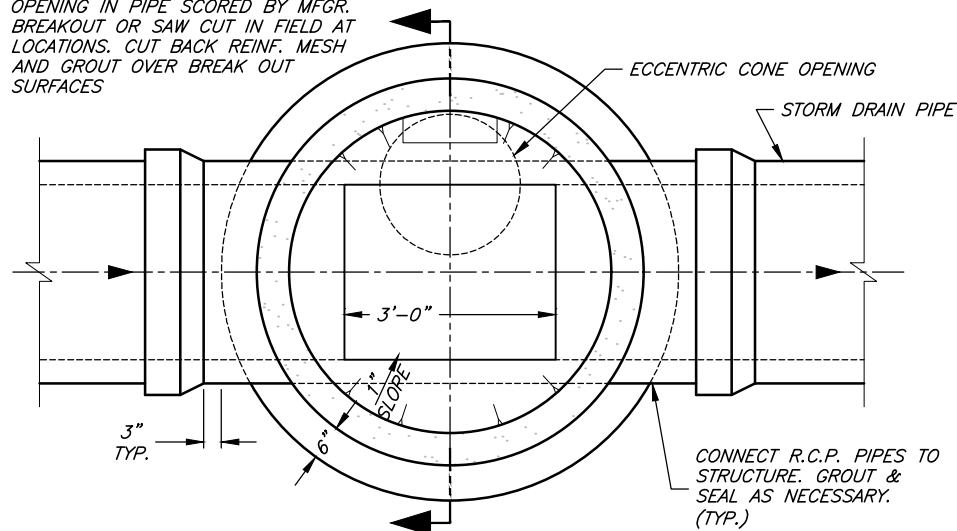
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PIPE SIZES											
M.H. SIZE	IN-LINE M.H. 180°	JUNCTION MANHOLE (ANGLE / ARC DISTANCE)									
		90°	85°	80°	75°	70°	65°	60°	55°	50°	45°
4' M.H.	15"-24"	15"-18"	15"-18"	15"	15"	--	--	--	--	--	--
5' M.H.	27"-30"	21"-24"	21"-24"	18"-21"	18"-21"	15"-18"	15"-18"	15"	--	--	--
6' M.H.	36"-48"	27"-30"	27"-30"	24"-27"	24"	21"-24"	21"	18"	15"-18"	15"	--
7' M.H.	54"	36"	36"	30"	27"-30"	27"	24"	21"-24"	21"	18"	15"
8' M.H.	60"	42"	42"	36"	36"	30"	27"-30"	27"	24"	21"	18"

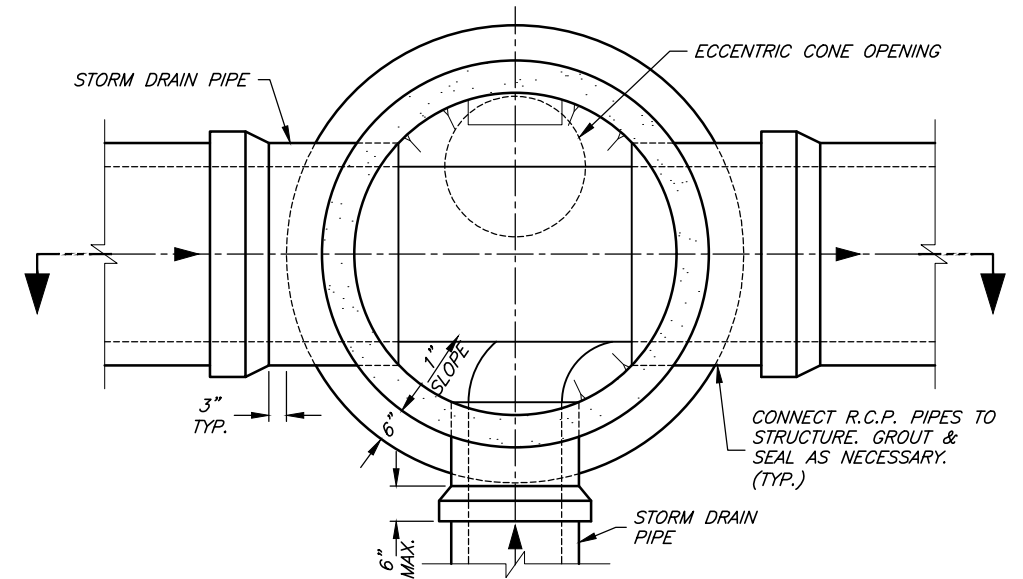


- SIZING NOTES:**
- SUGGESTED "A" DISTANCE IS 6" OR GREATER FOR 48", 60" AND 72" DIAMETER MANHOLES
 - SUGGESTED "A" DISTANCE IS 8" OR GREATER FOR 84" AND 96" DIAMETER MANHOLES

OPENING IN PIPE SCORED BY MFR. BREAKOUT OR SAW CUT IN FIELD AT LOCATIONS. CUT BACK REINF. MESH AND GROUT OVER BREAK OUT SURFACES



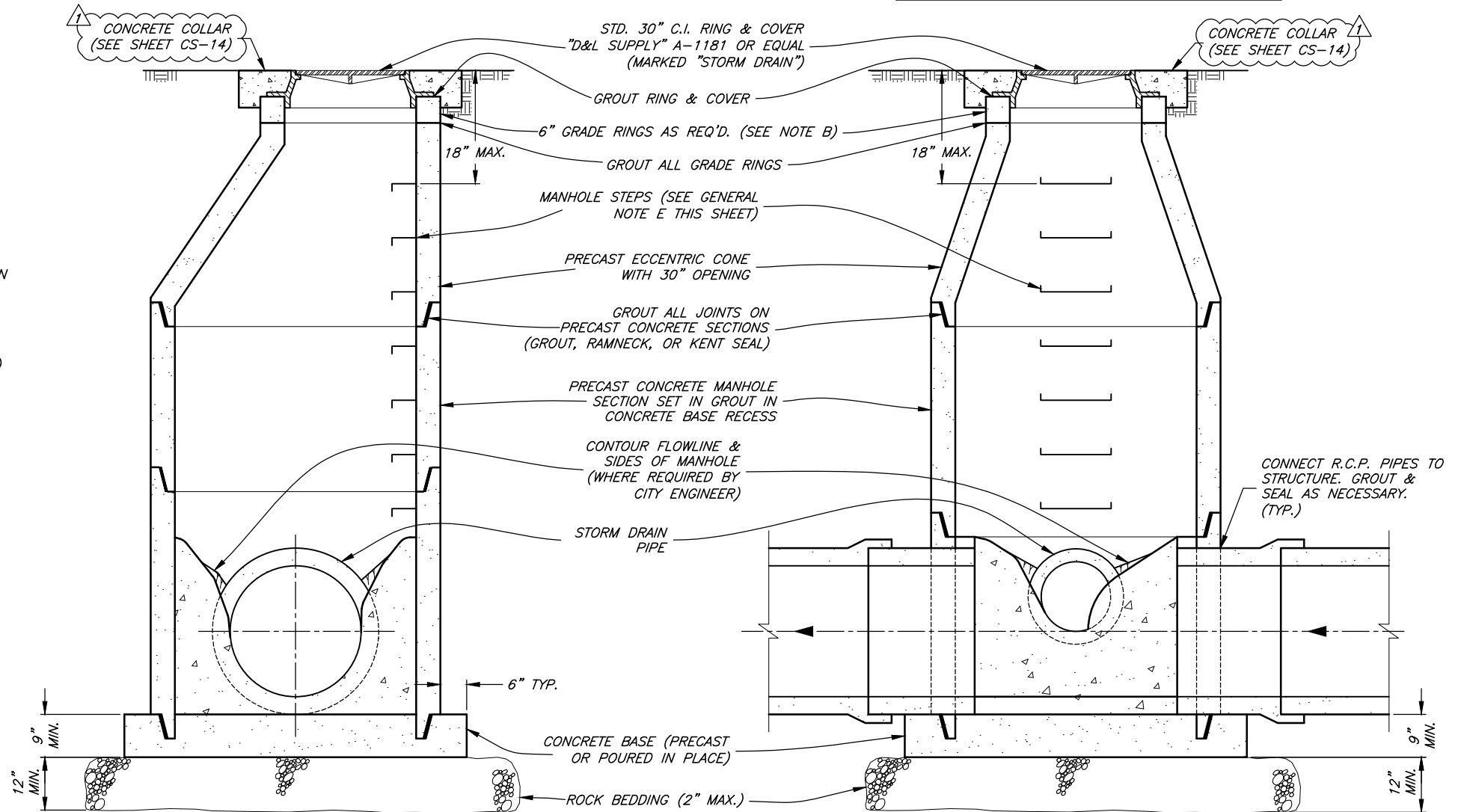
TYPICAL LINE MANHOLE



TYPICAL JUNCTION MANHOLE

GENERAL NOTES:

- STORM DRAIN MANHOLE DIAMETER TO BE DETERMINED BY THE DESIGN ENGINEER AFTER EVALUATION OF THE NUMBER, SIZE, AND PIPE ENTRY ANGLE OF THE PIPES THAT CONNECT TO THE MANHOLE.
- NO MORE THAN 12" OF GRADE RINGS TO BE ALLOWED ON ANY MANHOLE
- PLYWOOD COVERS SHALL BE USED AT MANHOLE FLOOR TO COVER FLOWLINE DURING CONSTRUCTION AND MAINTENANCE ACTIVITIES.
- ALL INTERIOR JOINTS SHALL BE SMOOTH AND EVENLY GROUTED WITH NON-SHRINK GROUT MIX.
- MANHOLE STEPS UNIFORMLY SPACED (1'-0" MAX.) POLYPROPYLENE COVERED STEEL STEPS, MODEL PSI-PF AS MANUFACTURED BY "M.A. INDUSTRIES" OR APPROVED EQUAL - INSTALLATION OF STEPS SHALL BE WATERPROOF.
- STORM DRAIN LINES SHALL BE 15 INCH MINIMUM DIAMETER REINFORCED CONCRETE PIPE (RCP), OF APPROPRIATE CLASS.



1	JAN '19	DQS	DELETED NOTE, DIMENSIONS; ADDED NOTE
REV.	DATE	APPR.	

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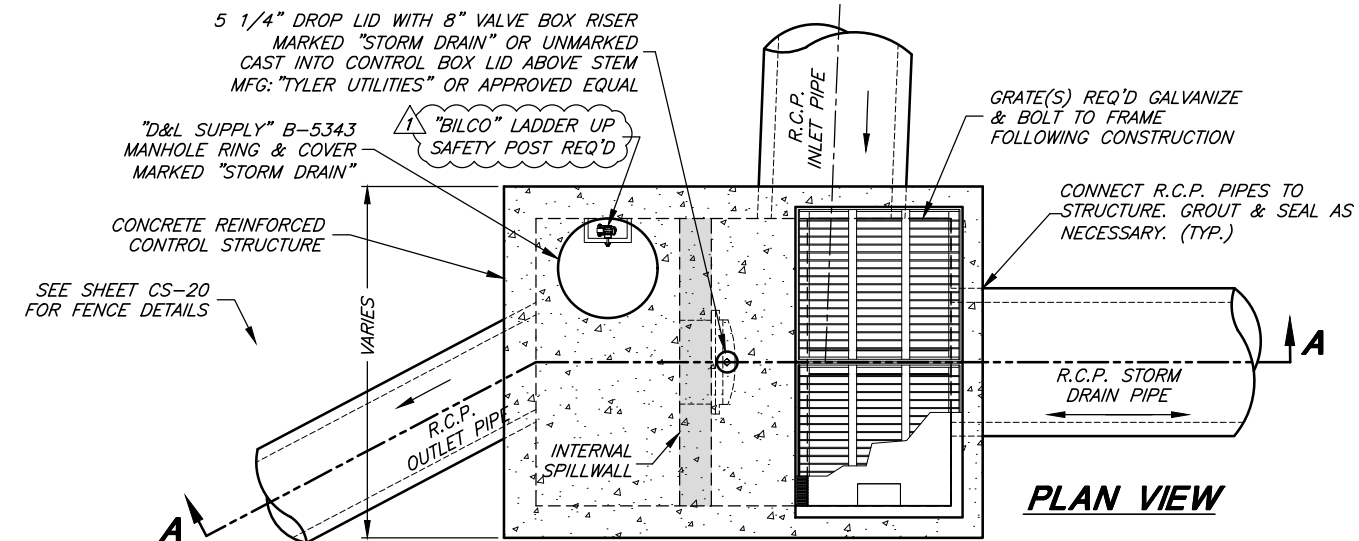


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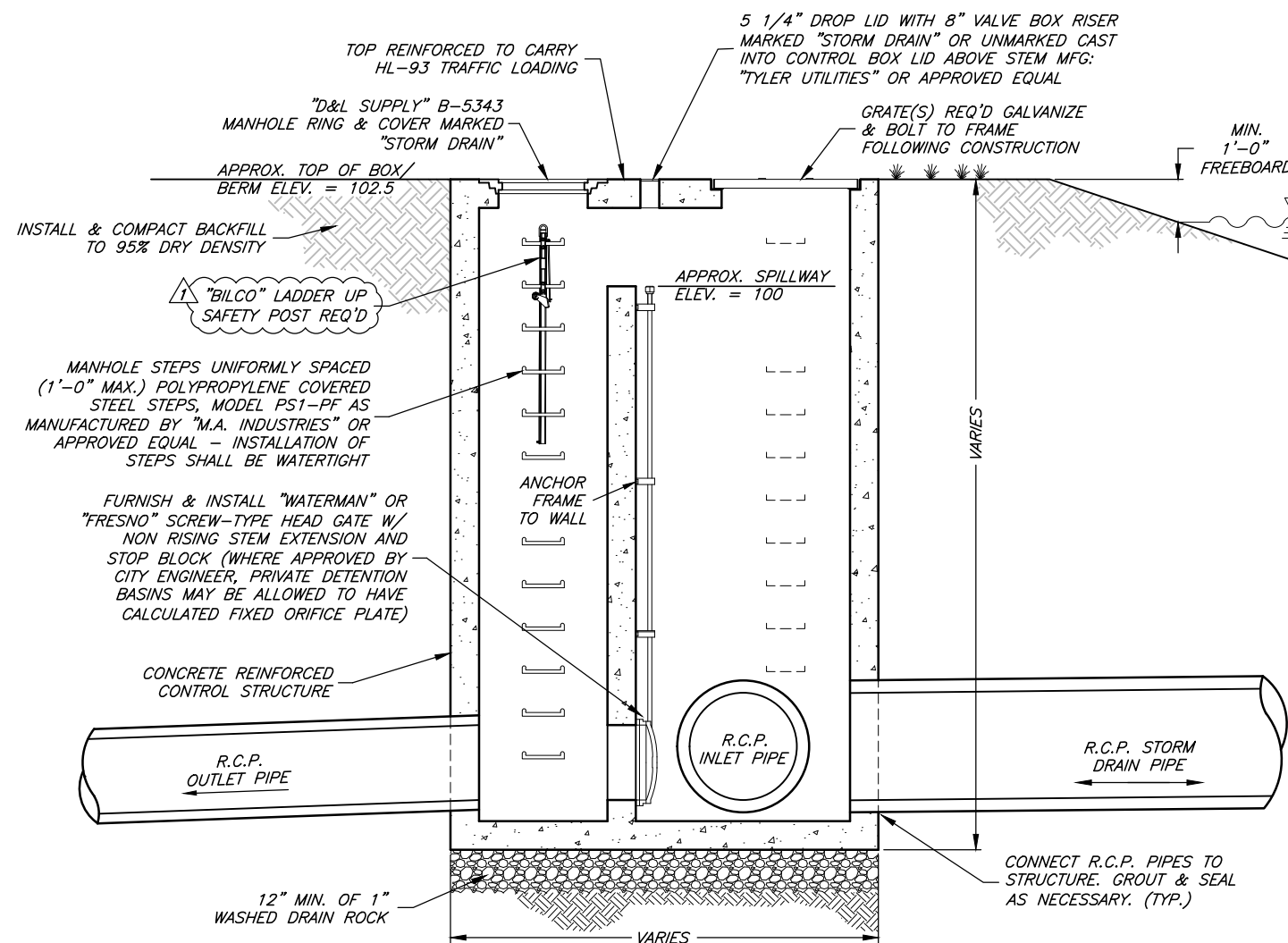
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PUBLIC WORKS STANDARDS
STORM DRAIN - MANHOLE DETAILS

SHEET:
CS-17
OF 22 SHEETS

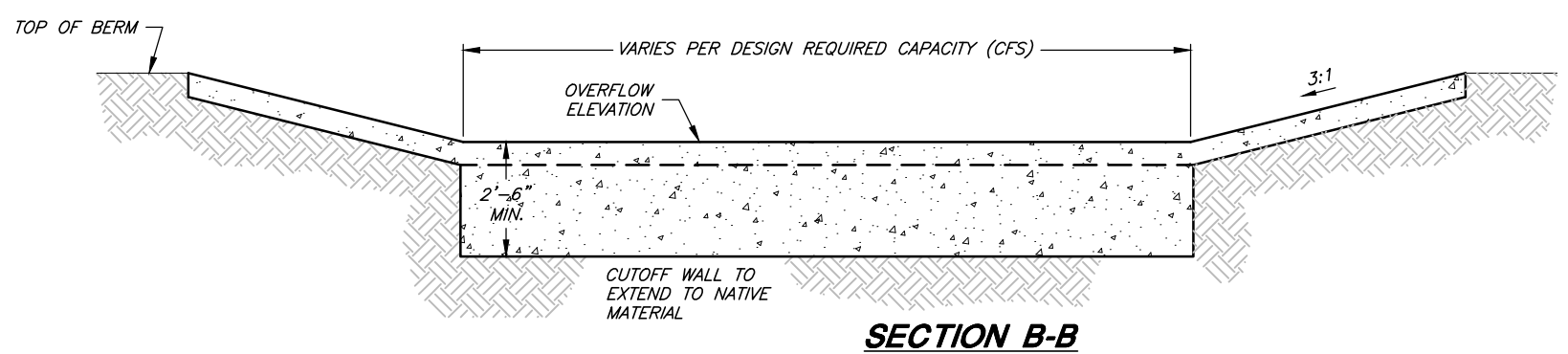
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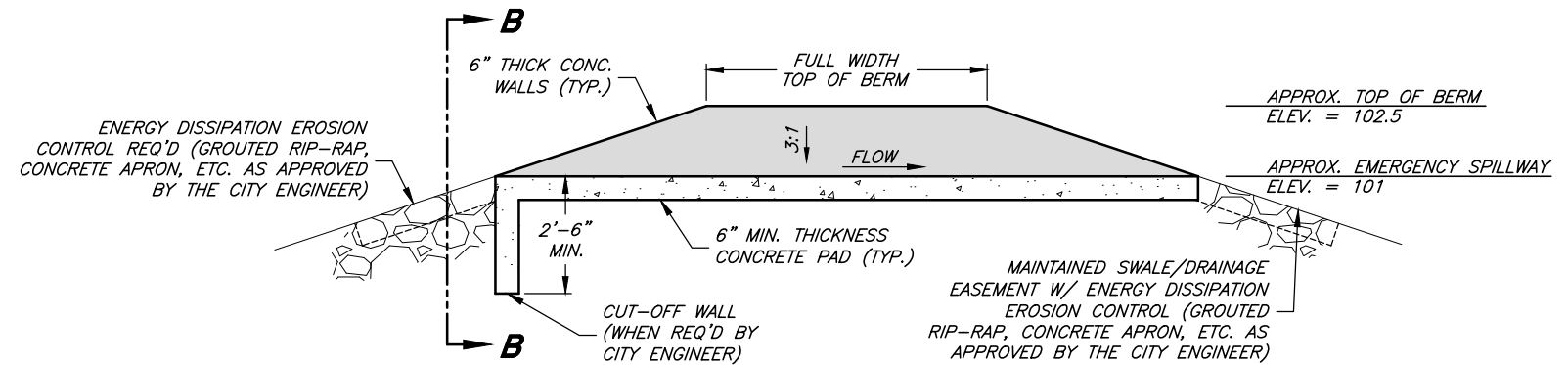
DETENTION INLET/OUTLET CONTROL STRUCTURE
(PRECAST OR CAST-IN-PLACE)



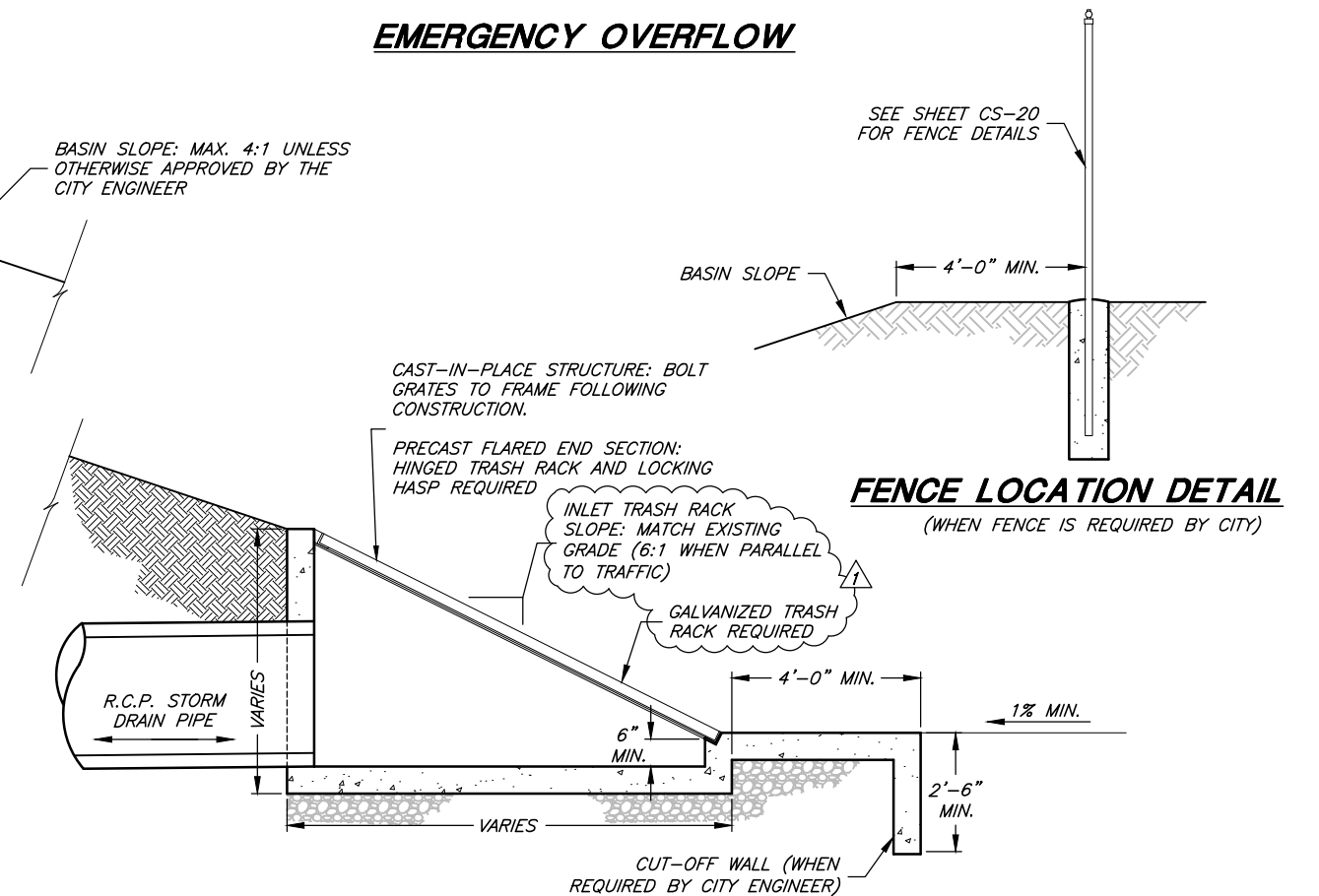
SECTION A-A



SECTION B-B



EMERGENCY OVERFLOW



FENCE LOCATION DETAIL
(WHEN FENCE IS REQUIRED BY CITY)

GENERAL AND STRUCTURAL NOTES:
SEE SHEET CS-19

INCLINED GRATE STORM DRAIN INLET



PROJECT ENGINEER
DATE 1/10/2019

REV.	DATE	APPR.
1	JAN '19	DQS
ADDED LADDER UP & MODIFIED NOTES		

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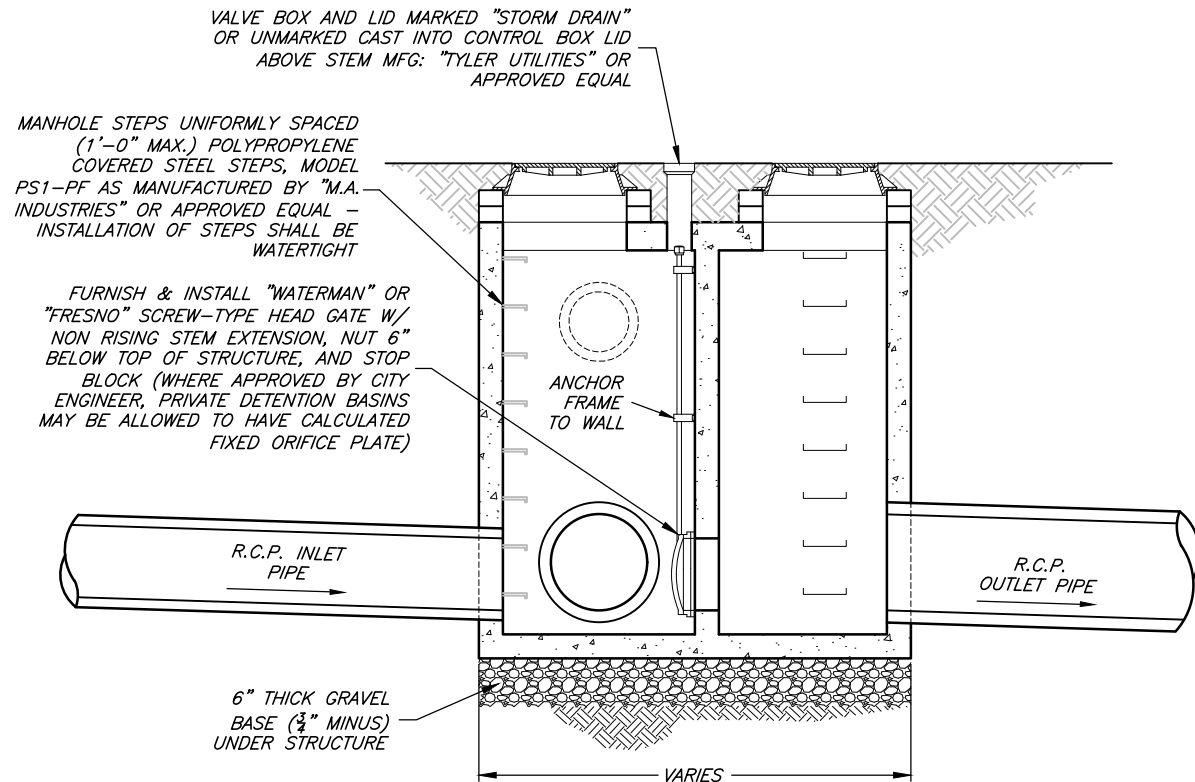
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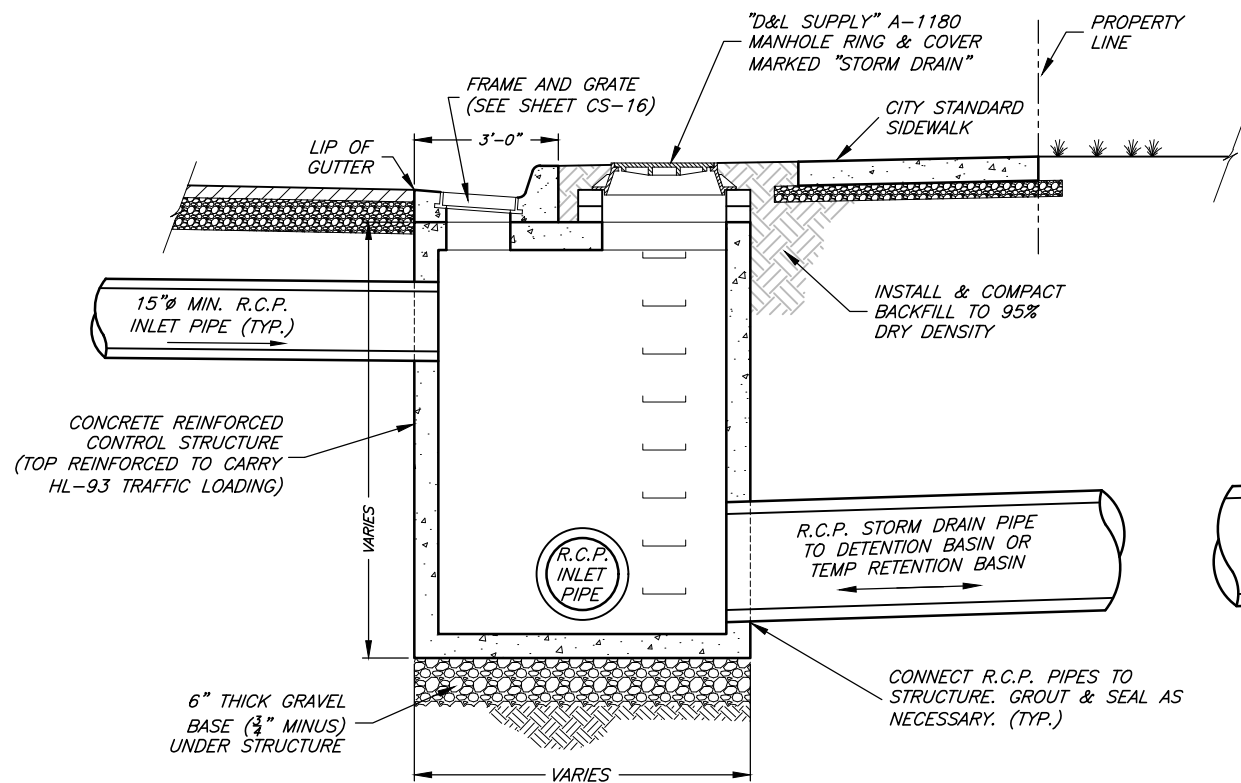
STORM DRAIN - LARGE DETENTION BASIN DETAILS

SHEET:
CS-18
OF 22 SHEETS

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SECTION B-B



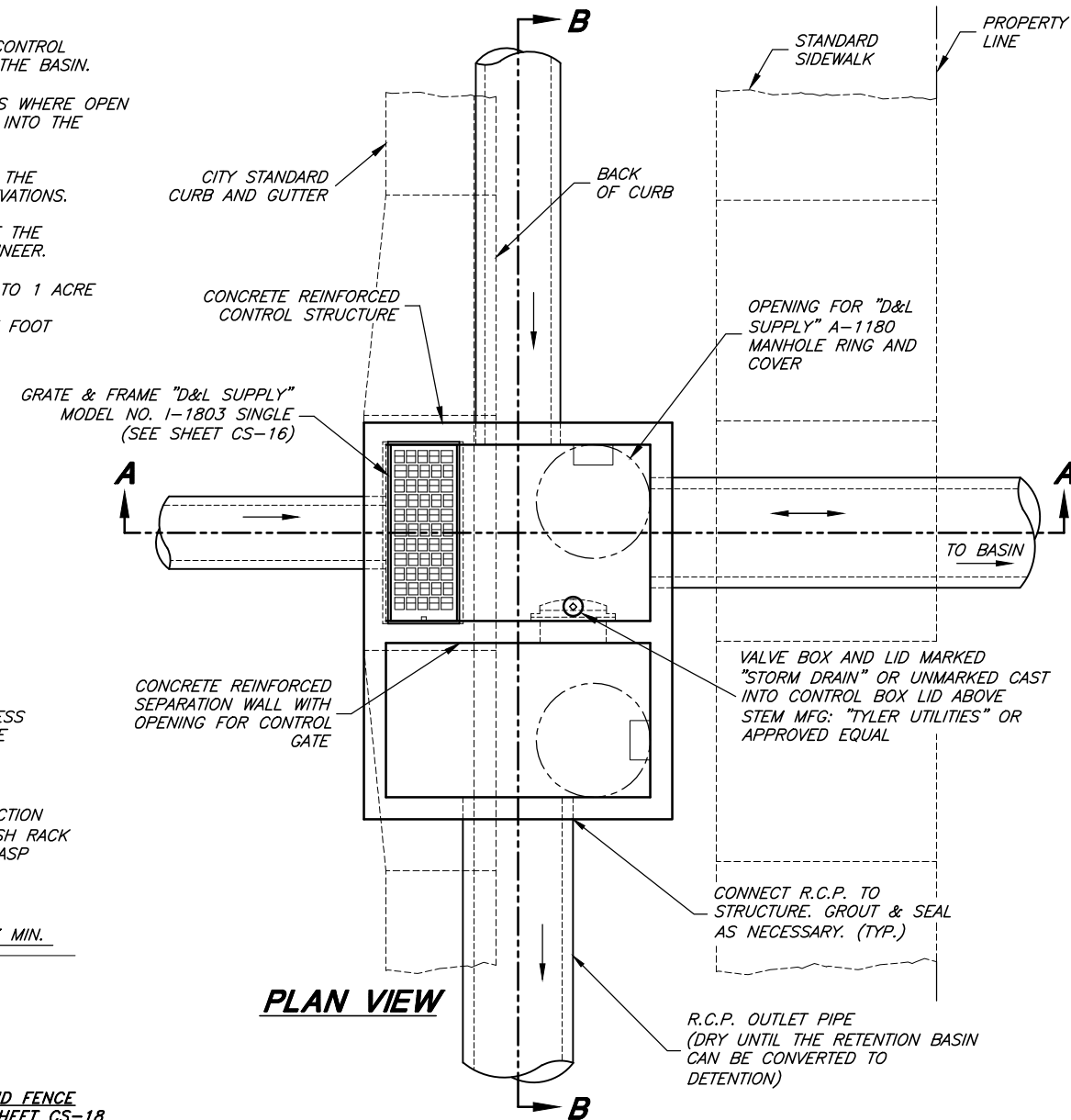
SECTION A-A

GENERAL NOTES:

1. ALL BASINS REGARDLESS OF LOCAL OR REGIONAL SHALL BE DESIGNED TO ACCOMMODATE A 100 YEAR STORM EVENT.
2. A DAM SAFETY (UTAH DIVISION OF WATER RIGHTS) HAZARD PERMIT MAY BE REQUIRED.
3. STRUCTURE DESIGN AND FLOW CALCULATIONS MUST BE APPROVED BY CITY ENGINEER PRIOR TO CONSTRUCTION.
4. STORM DRAIN LINES SHALL BE 15 INCH MINIMUM DIAMETER REINFORCED CONCRETE PIPE (RCP), OF APPROPRIATE CLASS.
5. THE SURFACE AREA OF THE BASIN SHALL BE SODDED AND SHALL BE PROVIDED WITH AN AUTOMATED SPRINKLER SYSTEM APPROVED BY THE CITY ENGINEER.
6. GRATES SHALL BE REMOVABLE FOR MAINTENANCE PURPOSES
7. GRATES SHALL BE HOT DIPPED GALVANIZED WITH BARS AT MAXIMUM 3 INCH SPACING.
8. LOW FLOWS MUST BE PIPED CONTINUOUSLY TO THE CONTROL STRUCTURE. NO OPEN FLOW IS PERMITTED THROUGH THE BASIN.
9. INCLINED GRATES ARE REQUIRED ON ALL PIPES/INLETS WHERE OPEN CHANNELS, DITCHES, OR PONDS DISCHARGE DIRECTLY INTO THE STORM DRAIN SYSTEM.
10. AN INTERNAL SPILLWAY MAY BE CONSTRUCTED INSIDE THE STRUCTURE DEPENDING ON SITE CONDITIONS AND ELEVATIONS.
11. BASIN STRUCTURES ARE DETERMINED BY THE SIZE OF THE DETENTION BASIN OR AS REQUIRED BY THE CITY ENGINEER. (SEE SHEET CS-18 OR CS-19)
 - a. SMALL DETENTION BASIN: LESS THAN OR EQUAL TO 1 ACRE FOOT
 - b. LARGE DETENTION BASIN: GREATER THAN 1 ACRE FOOT

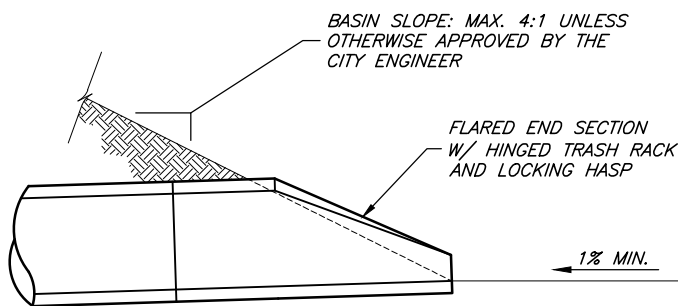
STRUCTURAL NOTES:

- A. PRECAST CONCRETE STRUCTURE CAN BE REPLACED WITH CAST-IN-PLACE CONCRETE VAULT. SUBMIT ENGINEERED CONSTRUCTION PLANS WITH REBAR DETAILS TO CITY ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION.
- B. ADD REINFORCEMENT AROUND OPENINGS EQUAL TO REINFORCEMENT DISPLACED BY OPENING.
- C. THE PRECAST VAULT MANUFACTURER IS RESPONSIBLE FOR DESIGN RELATED TO TRAFFIC LOADING AND THRUST. VERIFICATION OF PROPER DESIGN MUST BE PROVIDED TO THE CITY BY THE DEVELOPER, CONTRACTOR, OR PROPERTY OWNER AS THE CASE MAY BE.
- D. REINFORCEMENT TO CONFORM WITH ASTM A 615 GRADE 60
- E. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI
- F. USE AN AIR-ENTRAINING AGENT ON ALL CONCRETE EXPOSED TO THE WEATHER.
- G. HL-93 LOADING



INLET/OUTLET CONTROL STRUCTURE

(PRECAST OR CAST-IN-PLACE)



EMERGENCY OVERFLOW AND FENCE LOCATION DETAIL : SEE SHEET CS-18



PROJECT ENGINEER
1/10/2019
DATE

REV. DATE APPR.

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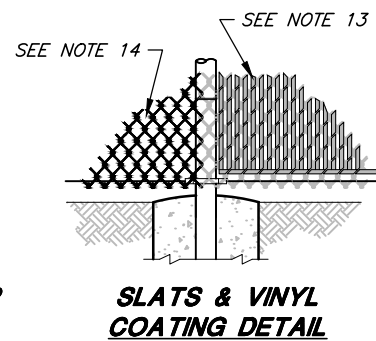
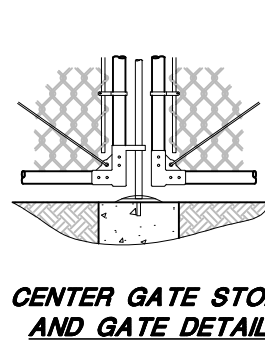
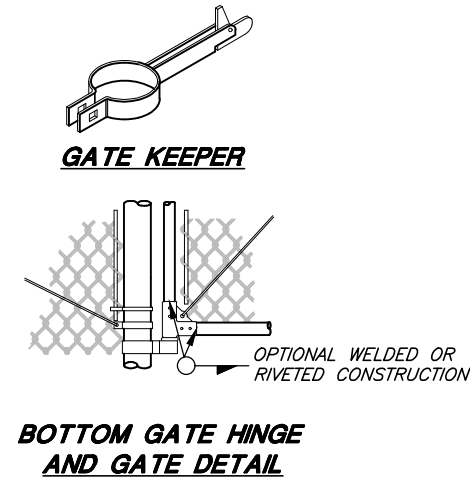
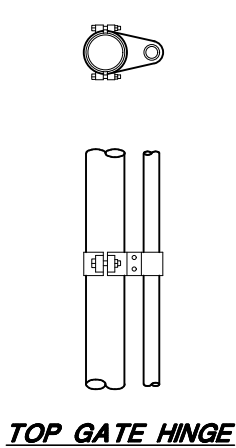
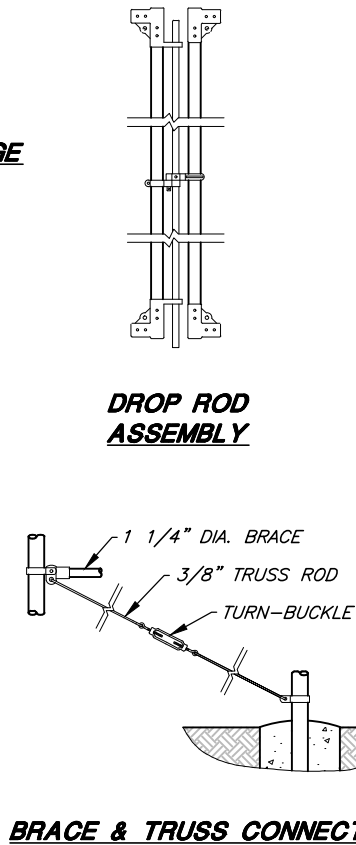
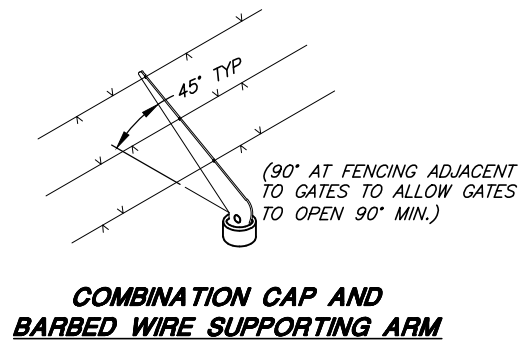
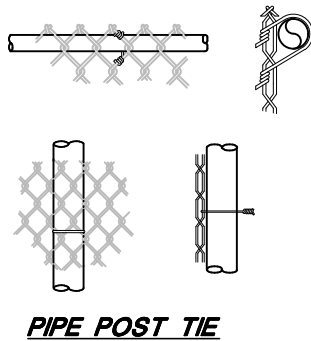
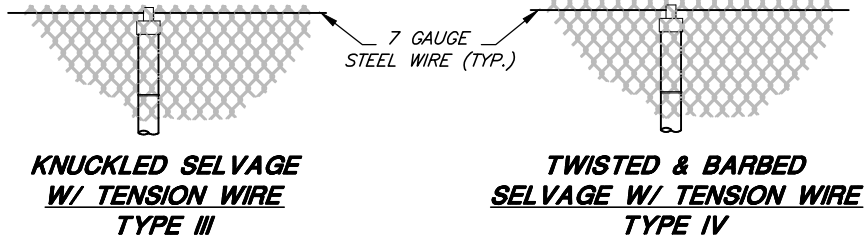
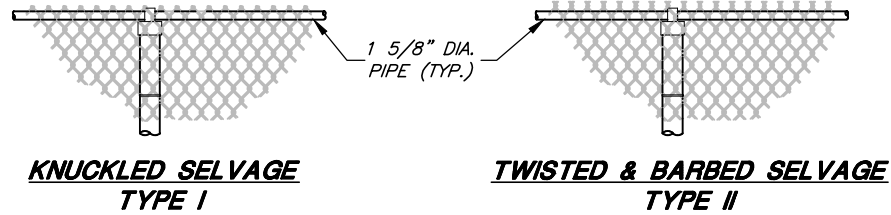
STORM DRAIN - SMALL DETENTION BASIN DETAILS

SHEET:

CS-19

OF 22 SHEETS

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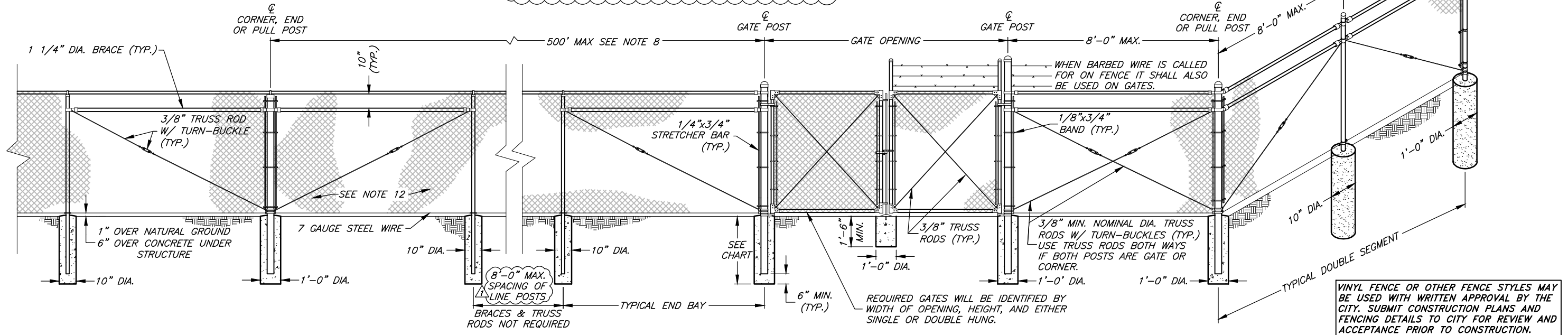


GENERAL NOTES:

1. MATERIALS, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH PROJECT STANDARD SPECIFICATIONS.
2. THE TYPE OF TOP SUPPORT IS SPECIFIED IN THE BIDDING SCHEDULE, TYPES I AND II TUBULAR RAIL, TYPES III AND IV TENSION WIRE.
3. BARB WIRE SHALL BE USED ONLY WHEN DESIGNATED ON THE PLANS OR IN THE SPECIFICATIONS.
4. TWISTED AND BARBED SELVAGE TOP AND BOTTOM SHALL BE USED ON FENCES 5- FEET HIGH OR GREATER.
5. KNUCKLED SELVAGE ON TOP AND TWISTED AND BARBED ON BOTTOM SHALL BE USED ON FENCES LESS THAN 5- FEET.
6. ALL STEEL PIPE MEMBERS SHALL CONFORM TO ASTM A53 HOT DIPPED ZINC COATED HIGH TENSILE STEEL PIPE.
7. POSTS SHALL BE SCHEDULE 40 PIPE.
8. LINE POSTS SHALL BE LOCATED AT EQUAL SPACING FOR EACH SEGMENT WITH A MAXIMUM SPACING AS FOLLOWS:
 - a. TANGENT SECTIONS TO 500-FOOT RADIUS NOT MORE THAN 8- FEET.
 - b. UNDER 500-FOOT RADIUS TO 200-FOOT RADIUS NOT MORE THAN 8- FEET.
 - c. UNDER 200-FOOT RADIUS TO 100-FOOT RADIUS NOT MORE THAN 6- FEET.
 - d. UNDER 100-FOOT RADIUS NOT MORE THAN 5- FEET.
9. TRUSS RODS AND BRACES SHALL NOT BE REQUIRED FOR FABRIC HEIGHT LESS THAN 5- FEET.
10. TENSION WIRE SHALL BE 7 GAUGE ZINC- OR ALUMINUM- COATED COIL SPRING STEEL TENSION WIRE.
11. ALL POSTS SHALL BE SET IN 3000 PSI CONCRETE AND SHALL BE TOPPED WITH BALL TYPE OR OTHER APPROVED ORNAMENT.
12. ALL FABRIC SHALL BE 2" GALVANIZED 9 GAUGE MESH.
13. VERTICAL SEMI-PRIVACY VINYL SLATS WITH BOTTOM-LOCKING SLAT, WHEN REQUIRED BY THE CITY. COLOR AS APPROVED BY THE CITY.
14. VINYL COATED CHAINLINK FENCING WHEN REQUIRED BY THE CITY. COLOR AS APPROVED BY THE CITY.
15. ALL FENCING SHALL CONFORM TO LOCATION AND HEIGHT LIMITATIONS AS STATED IN PLEASANT VIEW CITY FENCING ORDINANCE.

HEIGHT	GATE OPENING	GATE POST	GATE FRAME
UNDER 6 FEET	SINGLE TO 6' OR DOUBLE TO 12'	2"	1"
	SINGLE OVER 6' TO 8' OR DOUBLE OVER 12' TO 16'	2 1/2"	1 1/2"
	SINGLE OVER 8' TO 12' OR DOUBLE 16' TO 24'	4"	1 1/2"
6 FEET AND OVER	SINGLE TO 6' OR DOUBLE TO 12'	3 1/2"	1 1/2"
	SINGLE OVER 6' TO 12' OR DOUBLE OVER 12' TO 24'	4"	1 1/2"
	SINGLE OVER 12' TO 18' OR DOUBLE OVER 24' TO 36'	6"	1 1/2"
	SINGLE OVER 18' OR DOUBLE OVER 36'	8"	1 1/2"

HEIGHT OF FABRIC	DEPTH OF POSTS	LENGTH OF END, CORNER OR PULL POST	LENGTH OF LINE POST	SIZE OF POSTS	
				END, CORNER, & PULL POSTS	LINE POST
				NOM. SIZE	NOM. SIZE
7'	3'	10'	9'-8"	2 1/2"	2"
6'	3'	9'	8'-8"	2 1/2"	2"
5'	3'	8'	7'-8"	2"	1 1/2"
4'	3'	6'	5'-8"	2"	1 1/2"
3'	3'	5'	4'-8"	2"	1 1/2"



REV.	DATE	APPR.
1	JAN '19	DQS
ADDED DIMENSION; MODIFIED TABLE & NOTES.		

SCALE:	DESIGNED
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	CHECKED

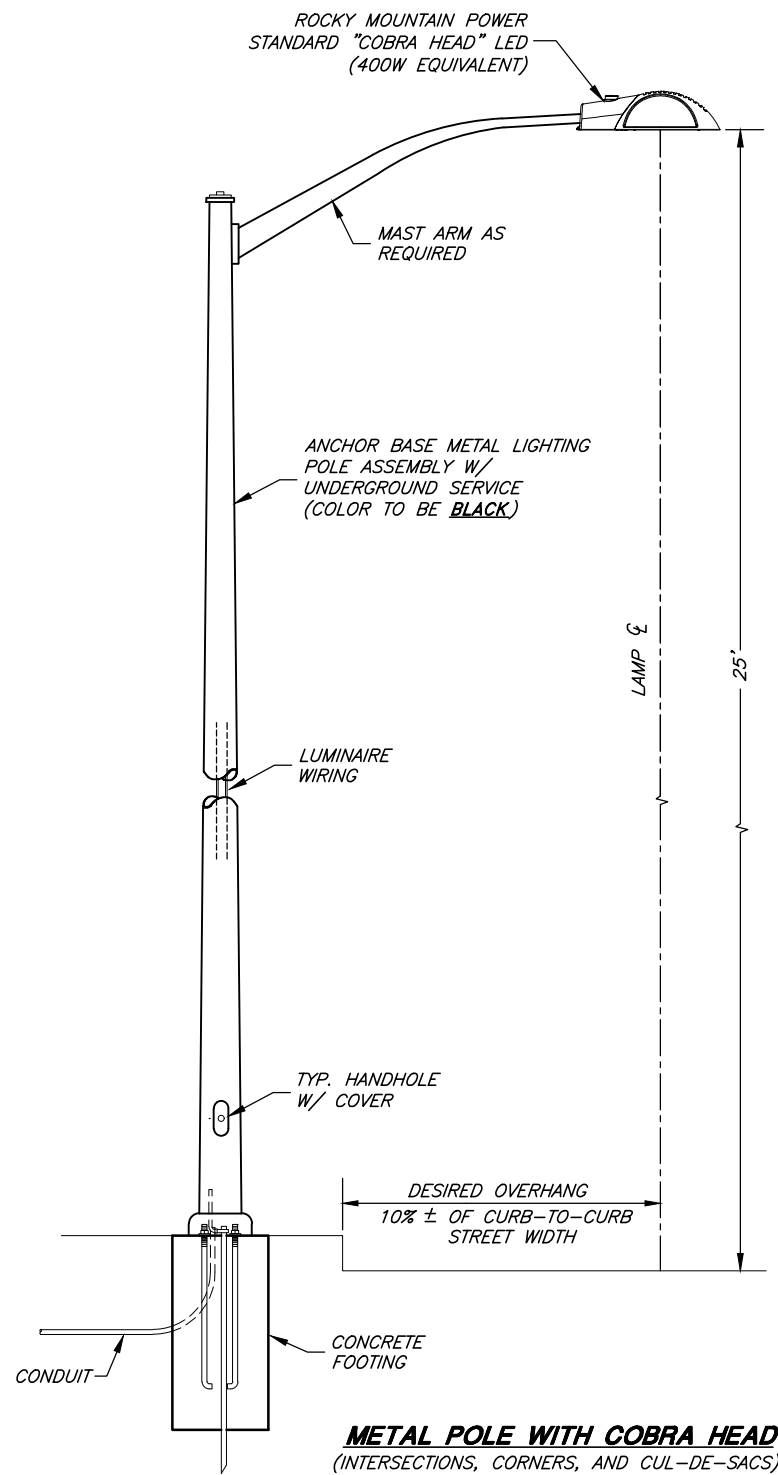


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GENERAL - CHAIN LINK FENCE DETAILS

SHEET:
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ATTENTION

DEVELOPER/CONTRACTOR SHALL NOTIFY ROCKY MOUNTAIN POWER DESIGN OFFICE PRIOR TO LIGHTING INSTALLATION TO ARRANGE FOR POWER TO BE PROVIDED ON SITE, AS WELL AS APPROVAL OF LIGHTING UNIT LOCATIONS AND APPROVAL OF ACTUAL COMPONENT SELECTION.

ROCKY MOUNTAIN POWER
1-888-221-7070

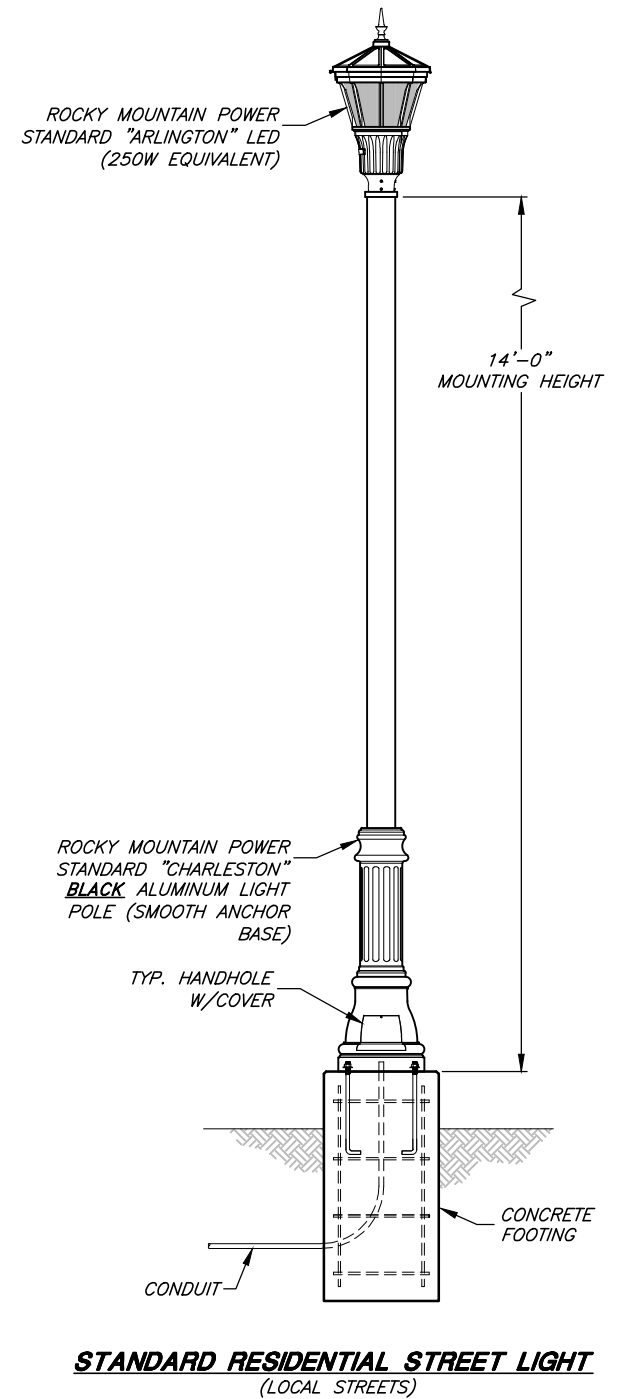
ALL FINAL WORK AND MATERIALS TO BE APPROVED BY THE CITY AND THE CITY ENGINEER.

GENERAL NOTES:

1. LIGHTS SHOWN ARE ROCKY MOUNTAIN POWER STANDARD STREET LIGHTS. STREET LIGHTS TO BE FURNISHED AND INSTALLED BY ROCKY MOUNTAIN POWER IN ACCORDANCE WITH THEIR REGULATIONS AND SPECIFICATIONS **AND PAID FOR BY THE DEVELOPER/CONTRACTOR.**
2. FOOTINGS TO BE INSTALLED PER MANUFACTURER/ROCKY MOUNTAIN POWER RECOMMENDATIONS. FOOTINGS SHOULD BE LOCATED WITH THE VERTICAL CENTERLINE 24" BACK FROM THE EDGE OF CURB.
3. THE DEVELOPER/CONTRACTOR MUST SUBMIT A WRITTEN REQUEST INCLUDING A MAP SHOWING THE LOCATION OF ALL STREET LIGHTS TO THE CITY. THE CITY WILL THEN SUBMIT A STREET LIGHT WORK ORDER TO ROCKY MOUNTAIN POWER.

SPACING AND LOCATION REQUIREMENTS

- A. COBRA HEAD STREET LIGHTS MUST BE LOCATED AT ALL INTERSECTIONS, CORNERS, AND CUL-DE-SACS FOR ALL STREET TYPES AT LOCATIONS SHOWN ON APPROVED CONSTRUCTION PLANS.
- B. STREET LIGHTS MUST BE SPACED AT A MAXIMUM 400 FOOT SPACING AND SHOULD ALTERNATE EACH SIDE OF THE STREET ON THE PROPERTY LINE AT LOCATIONS SHOWN ON APPROVED CONSTRUCTION PLANS.



Dana Q. Shuler
PROJECT ENGINEER
1/10/2019
DATE

REV.	DATE	APPR.

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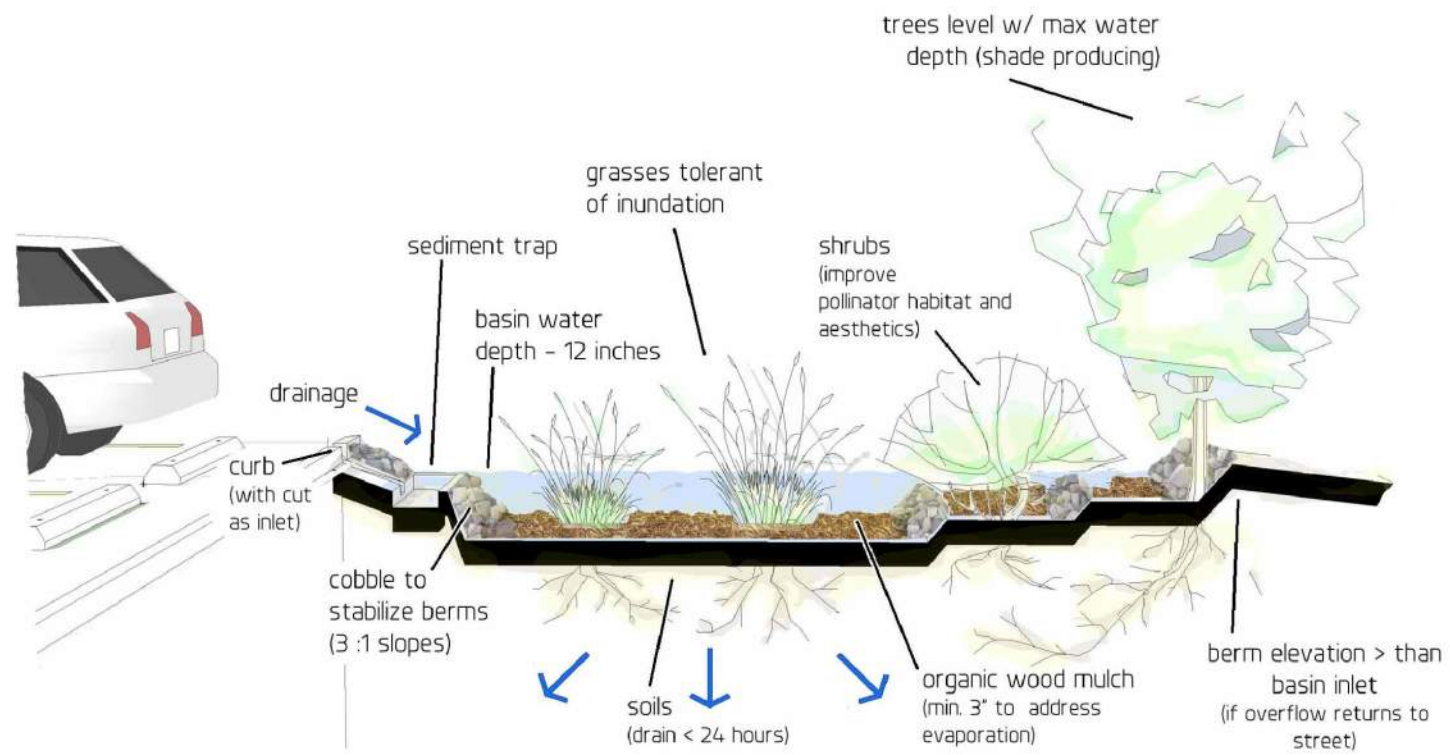
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GENERAL - STREET LIGHTING STANDARDS

SHEET:
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Basic Basin Design Considerations

RAIN GARDEN

*** http://www.lid-stormwater.net/site_map.htm ***

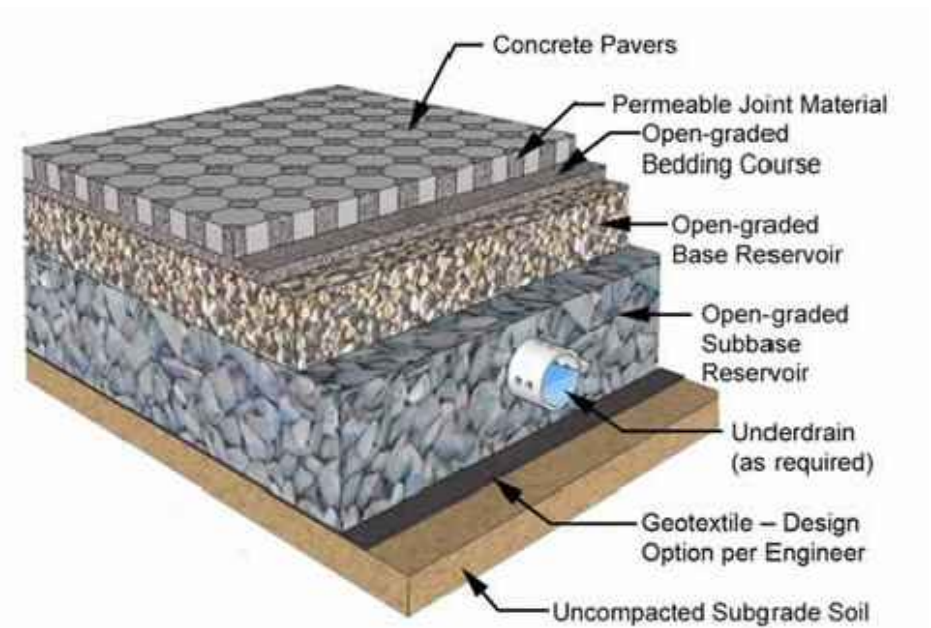
diagram by
Paul Navrot
for SUH



RAIN BARREL

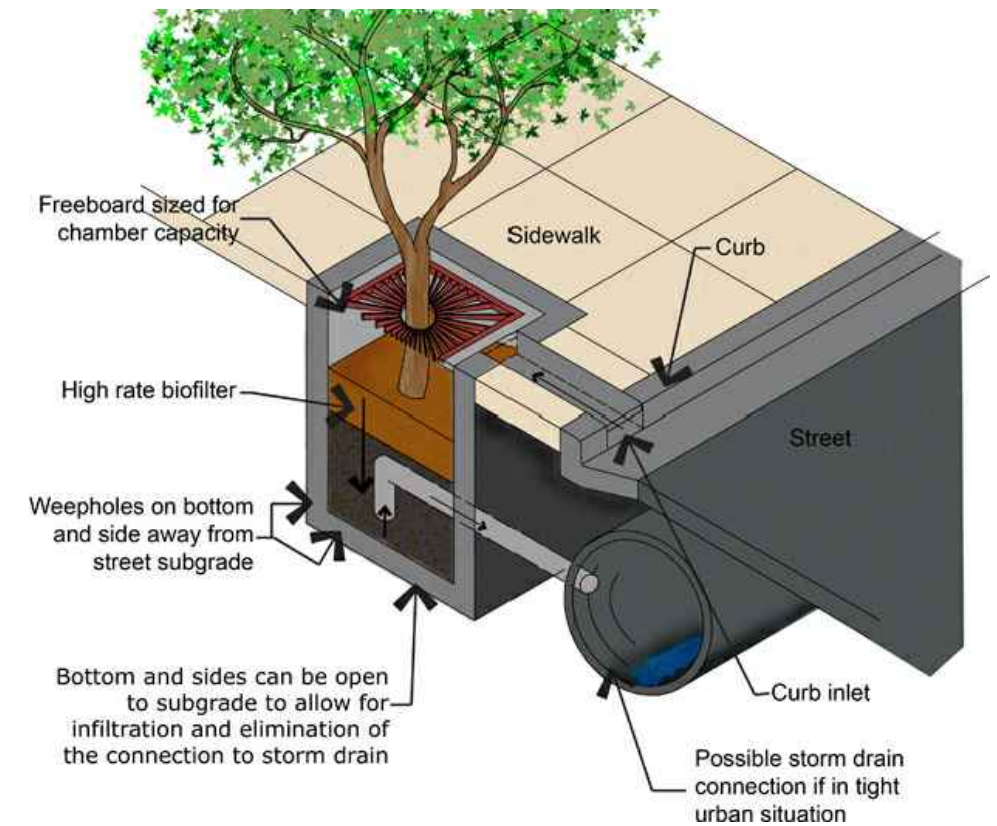
*** <http://www.goodideasinc.com/products/rain-barrels/rain-wizard-50/> ***

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PERMEABLE PAVER

From Smith, D. 2006. *Permeable Interlocking Concrete Pavement—selection design, construction and maintenance. Third Edition.* Interlocking Concrete Pavement Institute. Herndon, VA



TREE BOX FILTER

From www.wbdg.org



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1/10/2019

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