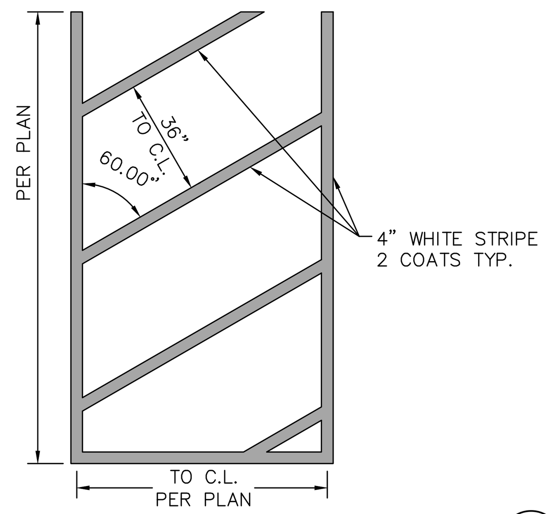
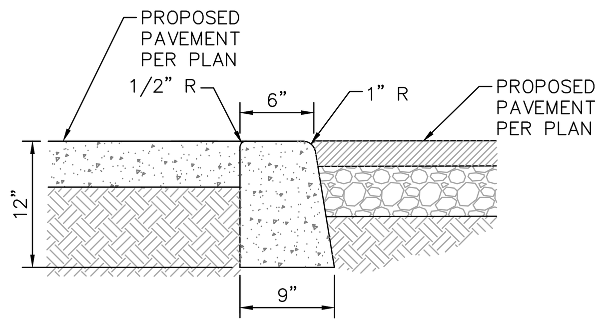


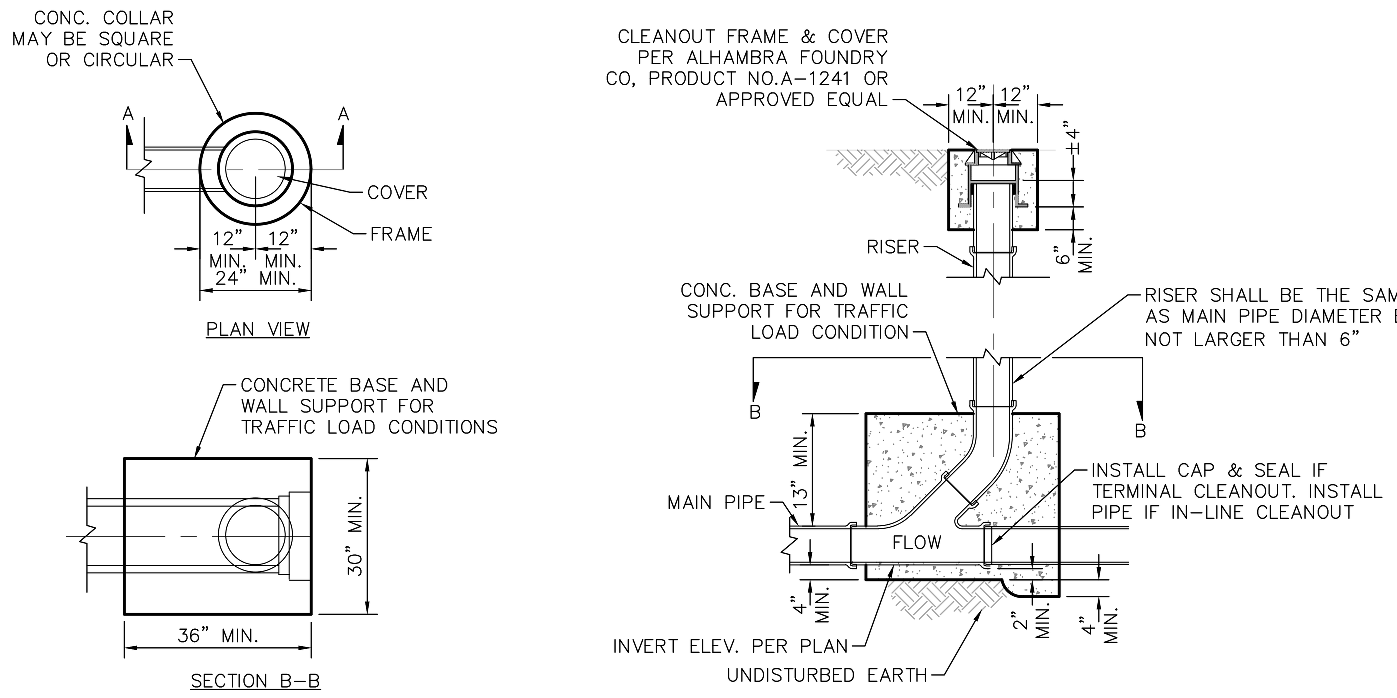
ACCESSIBLE PATH-OF-TRAVEL STRIPING
N.T.S. REV. DATE: 08.28.2015 (01)



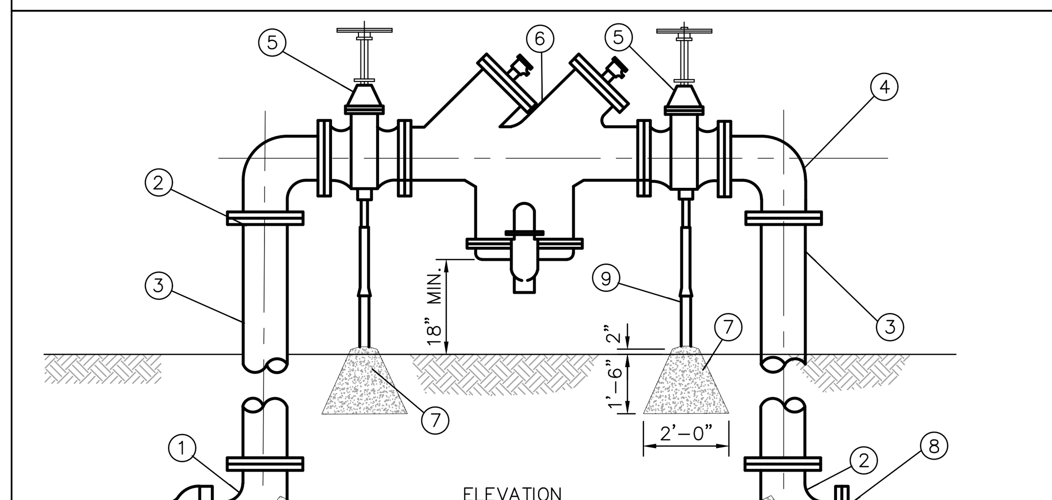
NOTES:

1. CONCRETE SHALL BE 3,500 PSI.
2. ISOLATION JOINTS SHALL BE PLACED ONLY AS SPECIFIED
3. CONTRACTION JOINTS CONSISTING OF 1" DEEP SCORES SHALL BE PLACED AT 15' INTERVALS O.C.
4. WHERE A WALK IS ADJACENT TO THE CURB THE JOINTS SHALL ALIGN WITH JOINTS IN THE WALK.

0" CONCRETE CURB
N.T.S. REV. DATE: 08.28.2015 (02)

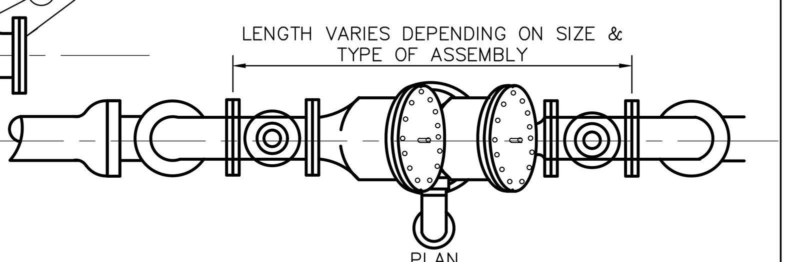


CLEANOUT DETAIL
N.T.S. REV. DATE: 08.28.2015 (03)



MATERIAL

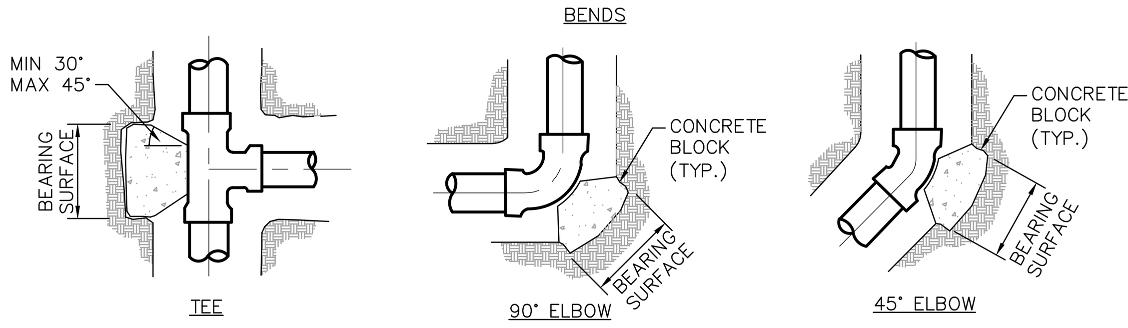
1 -- 90° D.I. ELL x PUSH-ON
2 -- 90° D.I. ELL FLG x FLG
3 -- D.I. SPOOL FLG x FLG
4 -- 90° D.I. ELL x FGL
5 -- U.S.C.-APPROVED SHUT-OFF VALVES. SEE SPECIFICATIONS
6 -- APPROVED REDUCED PRESSURE DEVICE (SIZE DEPENDS UPON REQUIREMENT)
7 -- CONCRETE FOOTING
8 -- D.I. BLIND FLANGE
9 -- GALVANIZED ADJUSTABLE PIPE SUPPORT.

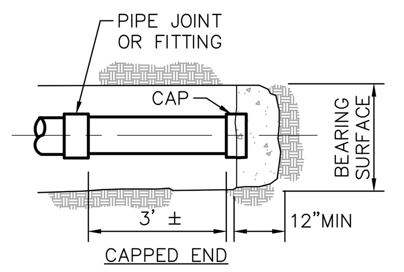


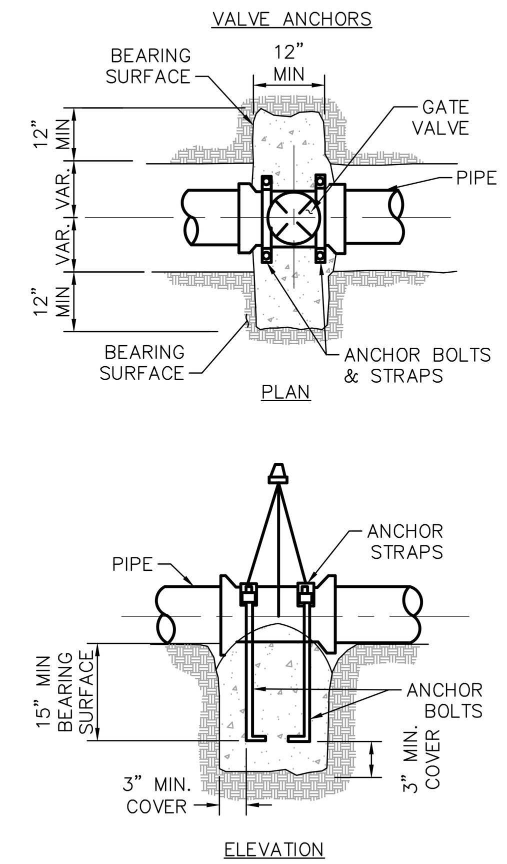
NOTES:

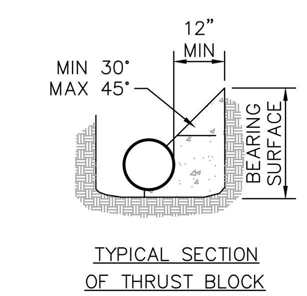
1. INSTALLATION SHALL COMPLY WITH THE LATEST PLUMBING CODES AND APPLICABLE LOCAL AGENCY REQUIREMENTS.

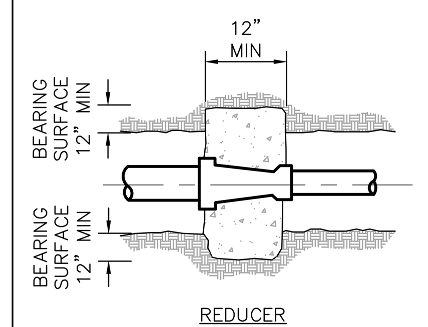
REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY
N.T.S. REV. DATE: 08.28.2015 (04)

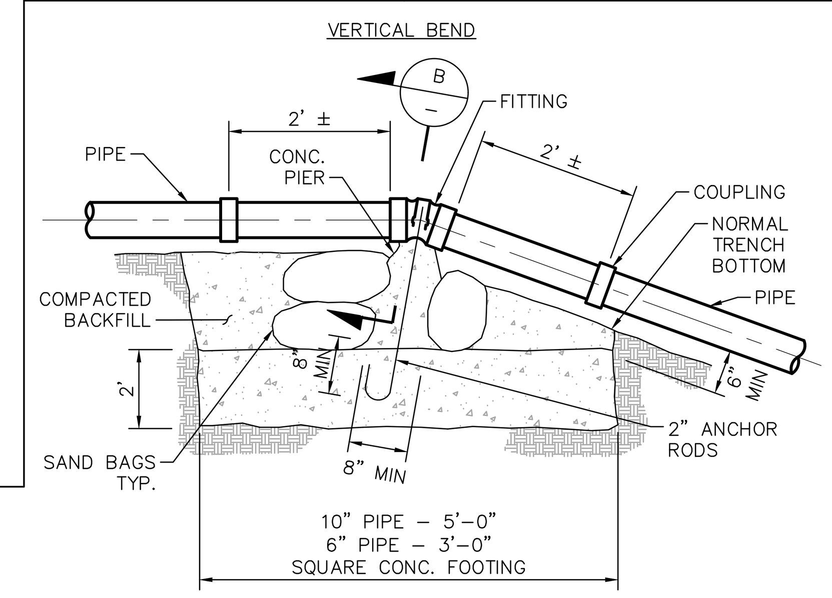


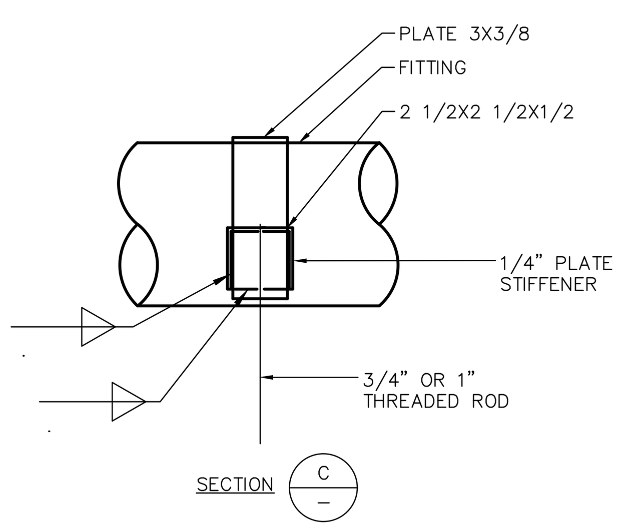


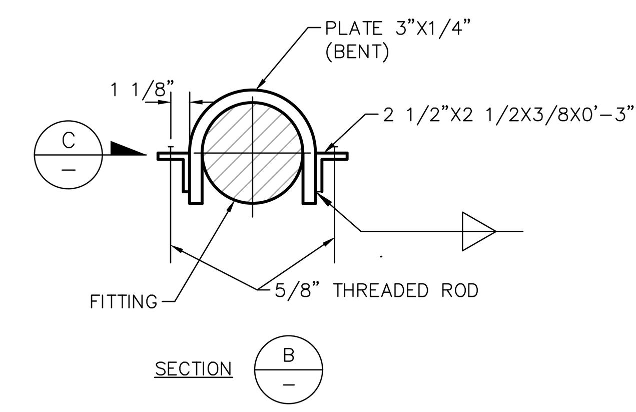












MAIN SIZE	TEE	BEND *			
		90°	45°	22.5°	11.25°
4"	4	4	4	3	2
6"	4	4	4	3	2
8"	5	7	4	3	2
10"	9	12	6	4	3
12"	12	16	9	6	3

THRUST AND ANCHOR BLOCK DETAILS
N.T.S. REV. DATE: 08.28.2015 (05)

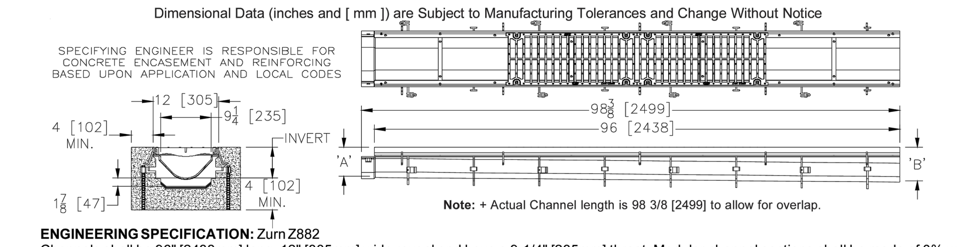
ZURN

Z882
12 [305] WIDE REVEAL TRENCH DRAIN SYSTEM WITH STEEL FRAME

SPECIFICATION SHEET

TAG ________

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Note: + Actual Channel length is 98 3/8 [2499] to allow for overlap.

ENGINEERING SPECIFICATION: Zurn Z882
Channels shall be 96" [2438mm] long, 12" [305mm] wide reveal and have a 9-1/4" [235mm] throat. Modular channel sections shall be made of 0% water absorbent High Density Polyethylene (HDPE). Shall have a positive mechanical connection between channel sections that will not separate during the installation and shall mechanically lock into the concrete surround every 12" [305mm]. Channels shall weigh less than 5.05 lbs. [2.29kg] per linear foot, have a smooth, 3" [76mm] radiused self cleaning bottom with a Manning's coefficient of 0.009 and 1.04% or neutral 0% built in slope. Channels shall have rebar clips standard to secure trench in its final location. Shall be provided with standard DGC grates that lock down to frame. Zurn 12" [305mm] wide reveal ductile iron slotted grate conforming to ASTM specification A536-84, Grade 80-55-06. Ductile iron grate is rated class C per the DIN EN1433 top load classifications. Supplied in 24" [608mm] nominal lengths with 13/16" [21mm] wide slots, and 1-1/2" [38mm] bearing depth. Grate has an open area of 80.8 sq. in per ft. [171,027 sq. mm per meter]. The 1/4" [6mm] thick heavy-duty carbon steel frame assembly conforms to ASTM specification A36 with 10 - 4" [102mm] long concrete anchors per 96" [2438mm]. Grate lockdown bars are to be integral to the frame. The frame is supplied with a powder coated finish. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames Shall be produced in the U.S.A.

PREFIX OPTIONS (Check/specify appropriate options)
___ Z Eight-foot High Density Polyethylene (HDPE) Channel, Heavy-Duty Frame with Anchor Studs.*

SUFFIX OPTIONS (Check/specify appropriate options)

Outlet Adapters Add/Each
___ -E1 Closed End Cap
___ -E4 4 [102] No-Hub End Outlet
___ -E6 6 [152] No-Hub End Outlet
___ -E8 8 [203] No-Hub End Outlet
___ -U4 4 [102] No-Hub Bottom Outlet
___ -U6 6 [152] No-Hub Bottom Outlet
___ -U8 8 [203] No-Hub Bottom Outlet

Trench No.	'A' Shallow Inv.	'B' Deep Inv.	Flow (cfs)	Flow (gpm)	Flow (lps)
8201	6.25 [159]	7.25 [184]	1.241	557	35
8202	7.25 [184]	8.25 [210]	1.725	774	49
8203	8.25 [210]	9.25 [235]	2.226	999	63
8203N	9.25 [235]	9.25 [235]	-	-	-
8204	9.25 [235]	10.25 [260]	2.745	1232	78
8205	10.25 [260]	11.25 [286]	3.271	1468	93
8206	11.25 [286]	12.25 [311]	3.808	1709	108
8206N	12.25 [311]	12.25 [311]	-	-	-
8207	12.25 [311]	13.25 [337]	4.347	1951	123
8208	13.25 [337]	14.25 [362]	4.893	2196	139
8209	14.25 [362]	15.25 [387]	5.443	2443	155
8209N	15.25 [387]	15.25 [387]	-	-	-
8210	15.25 [387]	16.25 [413]	5.996	2691	170
8211	16.25 [413]	17.25 [438]	6.551	2940	186
8212	17.25 [438]	18.25 [464]	7.106	3189	202

Grate Options (Load Classifications are per DIN EN1433)
___ -BDC Black Acid Resistant Epoxy Coated Ductile Grate - Class C
___ -BDE Black Acid Resistant Epoxy Coated Ductile Grate - Class E
___ -BDF Black Acid Resistant Epoxy Coated Ductile Grate - Class F
___ -DC Ductile Iron Solid Cover - Class E
___ -DGC Ductile Iron Slotted Grate - Class C *
___ -DGE Ductile Iron Slotted Grate - Class E
___ -DGF Ductile Iron Slotted Grate - Class F
___ -GDC Galvanized Ductile Slotted Grate - Class C
___ -GDE Galvanized Ductile Slotted Grate - Class E
___ -GDF Galvanized Ductile Slotted Grate - Class F
___ -GHPD Galvanized Heel-Proof Ductile Grate - Class B
___ -GHPDE Galvanized Heel-Proof Ductile Slotted Grate - Class E
___ -HPD Heel-Proof Ductile Slotted Grate - Class B
___ -HPDE Heel-Proof Ductile Slotted Grate - Class E
___ -HPDE Heel-Proof Ductile Slotted Grate - Class E
___ -RFGC Reinforced Slotted Galvanized Grate - Class C
___ -RPGC Reinforced Perforated Galvanized Grate - Class C
___ -RPGRC Reinforced Perforated Galvanized Reverse Punch Grate - Class C
___ -RFSC Reinforced Slotted Stainless Steel Grate - Class C
___ -RPSC Reinforced Perforated Stainless Steel Grate - Class C
___ -RPSRC Reinforced Perforated Stainless Steel Reverse Punch Grate - Class C

Miscellaneous Options
___ -CBF Black Acid Resistant Coated Top Frame
___ -JC Joint Connector
___ -SW Sidewall Extensions - 11 [279] High
___ -SW2 Double Sidewall Extensions - 22 [559] High
___ -VP Vandal-Proof Lockdown

MADE in the U.S.A.
___ -ADA-USA Meets Americans with Disabilities Act Requirements - Class C
___ -BG Galvanized Steel Bar Grate - Class D
___ -DGC-USA Ductile Iron Slotted Grate - Class C
___ -DGE-USA Ductile Iron Slotted Grate - Class E
___ -FG Fabricated Galvanized Steel Slotted Grate - Class A
___ -FS Fabricated Stainless Steel Slotted Grate - Class A
___ -GADA-USA Galvanized Ductile ADA Slotted Grate - Class C
___ -GDC-USA Galvanized Ductile Slotted Grate - Class C
___ -GDE-USA Galvanized Ductile Slotted Grate - Class E
___ -GHPDE-USA Galvanized Ductile Slotted Grate - Class E
___ -HPDE-USA Heel-Proof Ductile Slotted Grate - Class E
___ -GG Fiberglass Grate - Class A
___ -PG Perforated Galvanized Steel Grate - Class A
___ -PS Perforated Stainless Steel Grate - Class A
___ -SBG-L Stainless Steel Bar Grate - Class C

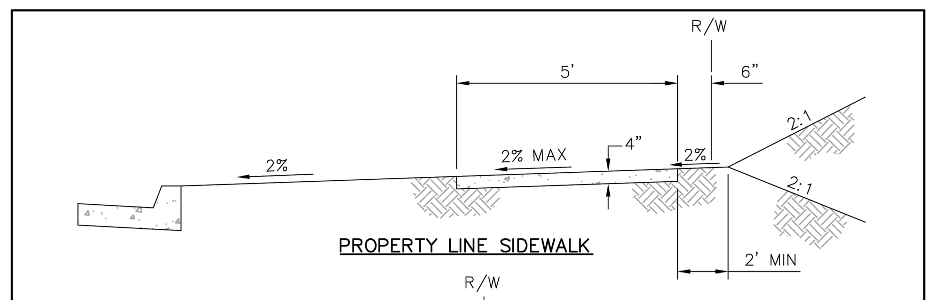
Miscellaneous Options
___ -DB Bottom Dome Strainer

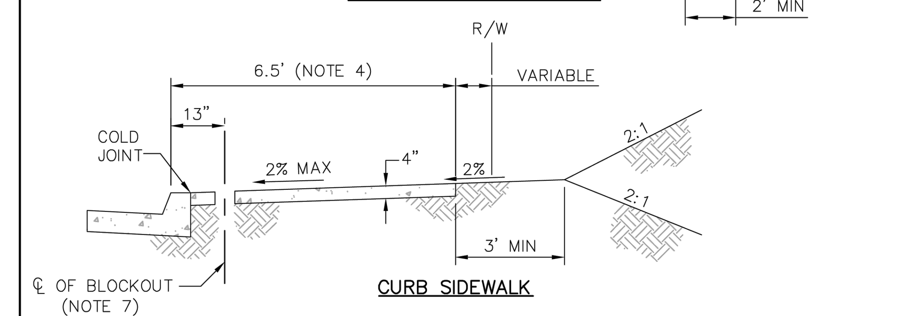
* Regularly furnished unless otherwise specified.

Zurn Industries, LLC | Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929
In Canada | **Zurn Industries Limited**
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292
www.zurn.com

Rev. G
Date: 12/15/17
C.N. No. 139333
Prod. | Dwg. No. Z882

12" TRENCH DRAIN DETAIL
N.T.S. REV. DATE: 08.28.2015 (06)





TYPICAL SECTIONS

NOTES:

1. CONCRETE SHALL BE PER CURRENT EDITION OF THE "STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION" (560-C-3250)
2. HALF INCH THICK TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT ALL CURB RETURNS. QUARTER INCH THICK EXPANSION JOINTS SHALL BE INSTALLED BETWEEN THE SIDEWALK AND THE BACK OF CURB AT CURB RETURNS AND AROUND DRAINAGE STRUCTURES, POLES, AND PIPES WHICH ARE IN THE SIDEWALK. CURB SIDEWALK SHALL HAVE THE EXPANSION JOINTS AT THE SAME LOCATIONS AS THOSE IN THE CURB.
3. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 10 FOOT MAXIMUM INTERVALS THROUGHOUT THE LENGTH OF THE SIDEWALK AND AT LOCATIONS WHERE THE SIDEWALK SECTION IS INTERRUPTED BY TREE WELLS, UTILITY VAULTS, BLOCK OUT FOR STREET LIGHTS AND SIMILAR OBJECTS.
4. A SIDEWALK WIDER THAN 6.5 FEET MAY BE REQUIRED IN COMMERCIAL AREAS AND AREAS HIGH PEDESTRIAN TRAFFIC.
5. FOR TYPICAL CURB RETURN SIDEWALK SEE STANDARD DRAWING NO. 120
6. WHEN A POLE (STREET LIGHT STANDARD, SIGNAL POLES, UTILITY POLES, ETC...) IS TO BE PLACED IN THE SIDEWALK, BLOCK OUT A THREE FOOT SQUARE AROUND THE STANDARD AND BRING THE POLE FOUNDATION TO GRADE AFTER IT IS PLUMB.
7. IN RESIDENTIAL AREAS 6"x6" OR 6" DIAMETER BLOCK OUTS FOR MAILBOXES ARE REQUIRED IN CURB SIDEWALK 13" FROM CURB FACE AT THE PROPERTY LINE BETWEEN ADJACENT RESIDENCES. FOR MAILBOXES FOR BUSINESS, MOBILE HOME PARK OR APARTMENT HOUSES, DEVELOPER TO CHECK WITH U.S.P.S. FOR THE NUMBER AND LOCATION OF MAILBOXES.
8. 4 FEET WIDTH OF SIDEWALK IS THE MINIMUM WIDTH BETWEEN EDGE OF SIDEWALK AND ANY OBJECTS THAT INTERFERE WITH PEDESTRIAN R/W (TREE WELLS, FIRE HYDRANTS, ETC.)
9. COLD JOINT WHEN SIDEWALK IS ADJACENT TO BACK OF CURB.

APPROVED BY: CITY ENGINEER	05/02/19 DATE	CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT
MARK / REVISIONS / APPR. / DATE		SIDEWALK
		STANDARD DRAWING NO. 325 Sheet 1 of 1

CITY OF RIVERSIDE SIDEWALK DETAIL
N.T.S. (07)

HKS

OWNER
HOSPITAL CORPORATION OF AMERICA (HCA)
2545 PARK PLAZA, BUILDING 3-2
NASHVILLE, TN 37203

FACILITY
RIVERSIDE COMMUNITY HOSPITAL
4445 MAGNOLIA AVENUE
RIVERSIDE, CA 92501

ARCHITECT/ INTERIOR DESIGNER
HKS ARCHITECTS, INC.
10880 WILSHIRE BLVD, #1850
LOS ANGELES, CA 90024

CIVIL ENGINEER/ LANDSCAPE ARCHITECT
KIMLEY-HORN AND ASSOCIATES, INC.
1100 W. TOWN & COUNTRY ROAD, SUITE 700
ORANGE, CA 92868

STRUCTURAL ENGINEER
KPFF
700 S FLOWER STREET, SUITE 2100
LOS ANGELES, CA 90017

MEP/LOW VOLTAGE ENGINEER
WSP USA
3102 OAK LAWN AVE, SUITE 450
DALLAS, TX 75219

PARKING CONSULTANT
HWA PARKING
9600 GREAT HILLS TRAIL, SUITE 150W
AUSTIN, TX 78759

HCA DESIGN MANAGER
ZACH WIDEMAN

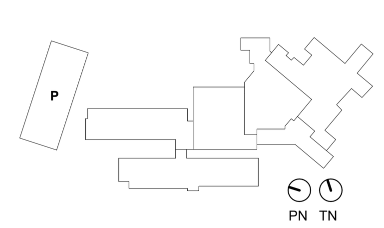
HCA CONSTRUCTION MANAGER
RUSSELL MAASS

Riverside Community Hospital

NEW BROCKTON PARKING GARAGE

HCA Healthcare®

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
NIKKI D. KERRY
RCE NO. 58449
CIVIL
STATE OF CALIFORNIA

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26153.100
HCA PROJECT NUMBER
0715000049
DATE
12/18/2024
ISSUE
CONSTRUCTION DOCUMENTS - ISSUE FOR PERMIT
SHEET TITLE
DETAILS
SHEET NO.
C8.1

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PLOT DATE: