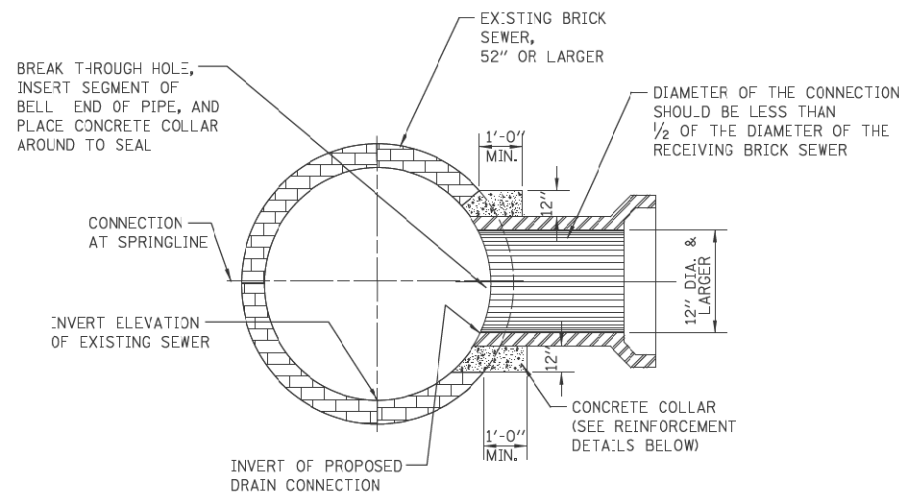
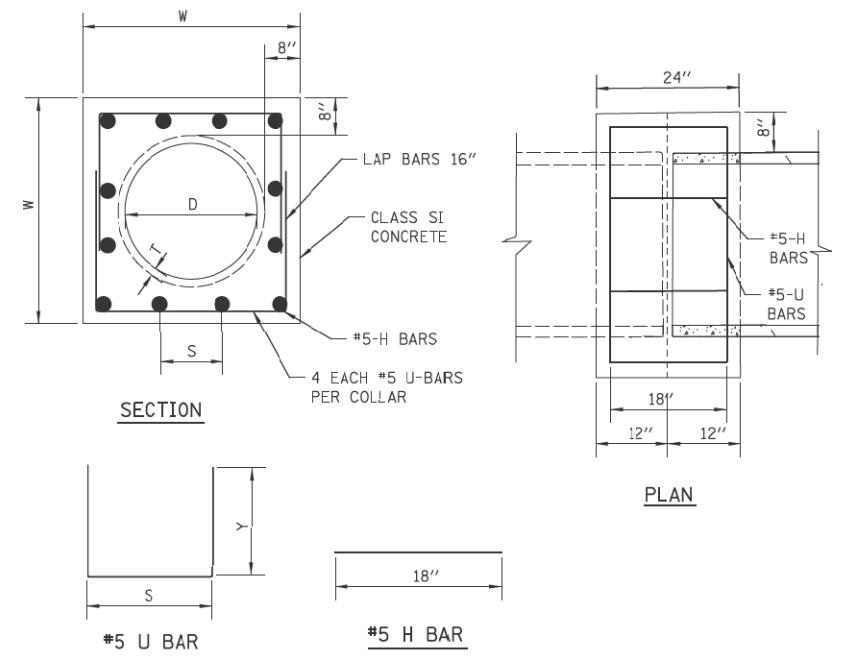


EXAMPLE TYPICAL CONNECTION DETAIL
(NOT TO SCALE)



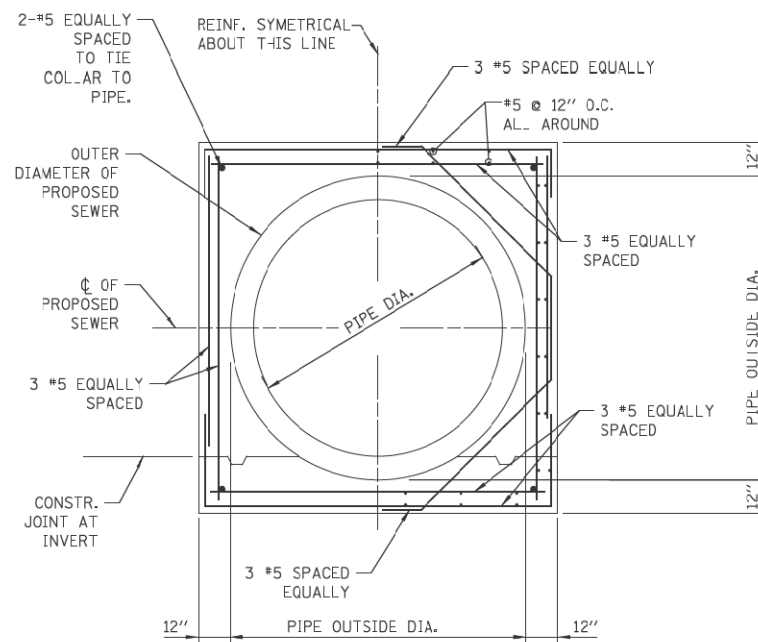
EXAMPLE TYPICAL BRICK SEWER CONNECTION FOR CONNECTING PIPE SIZES GREATER THAN 12" DIA.
(NOT TO SCALE)



PIPE TO PIPE REINFORCED CONCRETE COLLAR DETAIL
SCALE: N.T.S.

CONCRETE COLLAR NOTES:

1. ALL ITEMS AND MATERIALS SHALL CONFORM TO THE LATEST IDOT SSRBC SPECIFICATIONS, UNLESS OTHERWISE NOTED IN SUPPLEMENTAL SPECIFICATIONS FOR THE SPECIFIC PROJECT BEING CONSTRUCTED.
2. ALL CONCRETE SHALL CONFORM TO IDOT SSRBC ARTICLE 1020.04, CLASS SI, WITH A COMPRESSIVE STRENGTH OF 3500 PSI.
3. ALL EPOXY COATED REINFORCEMENT BARS SHALL CONFORM TO IDOT SSRBC SECTION 508, AND ARTICLE 1006.10.
4. UNLESS OTHERWISE SHOWN, THE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS: A.) CONCRETE CAST AGAINST PERMANENTLY EXPOSE EARTH: 3" B.) ALL OTHER REINFORCING BARS: 2"
5. CONCRETE COLLARS SHALL BE USED AT ALL EXISTING/PROPOSED PIPE CONNECTIONS. TRIM EXISTING PIPE END TO PROVIDE FLUSH BUTT JOINT, INSTALL REBAR, AND PLACE CONCRETE COLLAR.
6. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO THE EXISTING SEWER DURING CONSTRUCTION. CONTRACTOR SHALL ADEQUATELY BRACE OR SHORE EXISTING SEWER IF REQUIRED TO MAINTAIN INTEGRITY OF SEWER DURING CONSTRUCTION. SUBMIT DESIGN AND DETAILS, SEALED AND SIGNED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER, SHOWING TEMPORARY BRACING FOR THE EXISTING SEWER DURING CONSTRUCTION FOR REVIEW PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING STRUCTURE IS RESPONSIBILITY OF THE CONTRACTOR.
7. CONTRACTOR SHALL DIVERT ALL FLOW FROM THE EXISTING SEWER PRIOR TO CONSTRUCTION SO THAT THE WORK CAN BE PERFORMED IN THE DRY CONDITION. SEWER MUST BE MAINTAINED IN SERVICE AT ALL TIMES. MEANS OF FLOW DIVERSION FOR REVIEW PRIOR BREAKING INTO EXISTING BRICK SEWER. ALL EXCAVATION SHALL BE KEPT DEWATERED DURING CONSTRUCTION OPERATIONS UNTIL BACK-FILL IN PLACE. PROVISIONS SHALL BE MADE TO PREVENT THE BOTTOM OF ALL EXCAVATIONS FROM FREEZING OR FLOODING AT ALL TIMES. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE SHALL BE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE OF THE WORK.



EXAMPLE CONCRETE COLLAR REINFORCEMENT - SECTION
(NOT TO SCALE)

D (IN)	T (IN)	W (IN)	U BAR				H BAR				Class SI
			x (IN)	y (IN)	QTY (EACH)	LENGTH (FT)	S (IN)	QTY (EACH)	LENGTH (FT)	Concrete (CU YD)	
12*	2.03	32.0	26.00	21.00	4	22.7	8 1/8	12.0	18.0	0.42	42.5
15*	2.25	35.5	29.50	22.75	4	25.0	9 3/8	12.0	18.0	0.49	44.8
18*	2.53	39.0	33.00	24.50	4	27.3	10 1/2	12.0	18.0	0.57	47.2
21*	2.75	42.5	36.50	26.25	4	29.7	8 3/4	16.0	24.0	0.55	56.0
24	3.03	46.0	40.00	28.00	4	32.0	9 5/8	16.0	24.0	0.72	58.4
27	3.25	49.5	43.50	29.75	4	34.3	10 1/2	16.0	24.0	0.81	60.8
30	3.53	53.0	47.00	31.50	4	36.7	11 3/8	16.0	24.0	0.89	63.3
33	3.75	56.5	50.50	33.25	4	39.0	9 4/5	20.0	30.0	0.98	72.0
36	4.03	60.0	54.00	35.00	4	41.3	10 1/2	20.0	30.0	1.07	74.4
42	4.53	67.0	61.00	38.50	4	46.0	9 7/8	24.0	36.0	1.26	85.5
48	5.03	74.0	68.00	42.00	4	50.7	11 1/8	24.0	36.0	1.46	90.4

*Note: Option to use without Rebar

FILE PATH = p:\388035\pmt\aeconom\me\local\p\aeconom\Documents\01_Americas\Transportation\60269938_Circle\Phase_1\000_CDD-005_Roadway_Sheets\60X62_Concrete\0160X62-Sht-CDOT-04.dgn

#FILE#
#DATE#

D160X62-Sht-CDOT-04.dgn	DESIGNED - CDWM	REVISED -
USER NAME = BAWtor t	DRAWN - CDWM	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - CDWM	REVISED -
PLOT DATE = 8/19/2014	DATE - 8/20/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT
CONCRETE COLLAR / CONNECTION DETAILS**
SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

STANDARD REVISIONS		PERCENT COMPLETE	DATE	CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES		DRAWN: <u>BAWtor t</u>	SCALE: <u>A.14</u>
DATE	DESCRIPTION			CONCRETE COLLAR / CONNECTION DETAILS	CHECKED: _____	REVIEWED: _____	OF _____
1/22/14	APPROVED PLAN	30		SECTION 2013-0741		TOTAL SHEETS 58	
		60		COUNTY COOK		SHEET NO. 58	
		75		CONTRACT NO. 60X62			
		90		ILLINOIS FED. AID PROJECT			
		100					
		BULLETIN					

