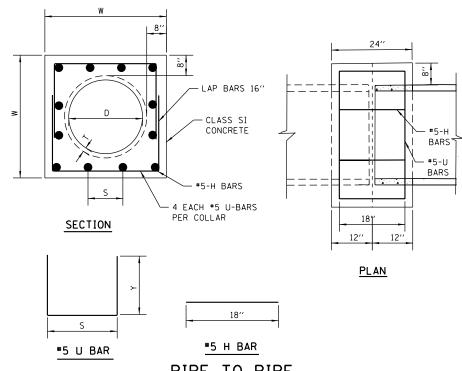
EXAMPLE TYPICAL CONNECTION DETAIL

EXISTING BRICK SEWER, 52" OR LARGER BREAK THROUGH HOLE, INSERT SEGMENT OF DIAMETER OF THE CONNECTION BELL END OF PIPE, AND SHOULD BE LESS THAN PLACE CONCRETE COLLAR 1/2 OF THE DIAMETER OF THE AROUND TO SEAL RECEIVING BRICK SEWER CONNECTION -AT SPRINGLINE INVERT ELEVATION OF EXISTING SEWER - CONCRETE COLLAR (SEE REINFORCEMENT DETAILS BELOW) INVERT OF PROPOSED -DRAIN CONNECTION

EXAMPLE TYPICAL BRICK SEWER CONNECTION FOR CONNECTING PIPE SIZES GREATER THAN 12" DIA.

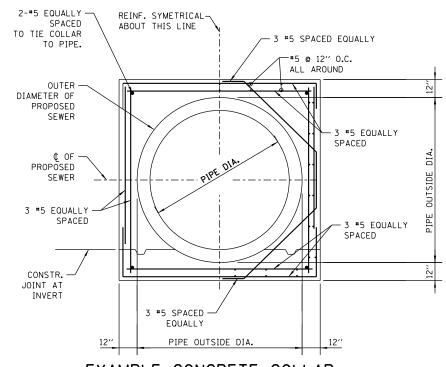


PIPE TO PIPE REINFORCED CONCRETE COLLAR DETAIL SCALE: N.T.S.

H BAR

CONRETE 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
- 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
- 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. SUBMIT MEANS OF FLOW DIVERSION FOR REVIEW PRIOR BREAKING INTO EXISTING BRICK SEWER, ALL EXCAVATION SHALL BE KEPT DEWATERED DURING CONSTRUCTION OPERATIONS UNTIL BACKFILL 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.



D	Т	W				TOTAL			TOTAL	Class SI		
	PIPE											
RCP DIA.	THICKNESS	WIDTH	х	Υ	QTY	LENGTH	S	QTY	LENGTH	Concrete	#5 Epoxy Rebar	
(IN)	(IN)	(IN)	(IN)	(IN)	(EACH)	(FT)	(IN)	(EACH)	(FT)	(CU YD)	(LBS)	
12*	2.00	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*	2.50	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	0.65	56.0	
24	3.00	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	3.50	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	4.00	60.0	54.00	35.00	4	41.3	10 1/2	20.0	30.0	1.07	74.4	
42	4.50	67.0	61.00	38.50	4	46.0	97/8	24.0	36.0	1.26	85.5	
48	5.00	74.0	68.00	42.00	4	50.7	11 1/8	24.0	36.0	1.46	90.4	
*Note: Op	*Note: Option to use without Rebar											

U BAR

EXAMPLE CONCRETE COLLAR REINFORCEMENT - SECTION (NOT TO SCALE)

STANDARD REVISIONS				
DATE	DESCRIPTION			
1/22/14	APPROVED PLAN			

SCALE: NTS

PERCENT COMPLETE	DATE	CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT	DRAWN: SBW DESIGNED: CHECKED:	Δ 1	
30		BUREAU OF ENGINEERING SERVICES		L. O.T.	
60			REVIEWED:		
75		CONCRETE COLLAR /	OF		
90		CONNECTION DETAILS			
100			PN		
DILLETIN			I LIN		

D160W28-sht-CDWM-Detail-06.dgn	DESIGNED -	REVISED -
-		
USER NAME = chiua	DRAWN -	REVISED -
PLOT SCALE = 1.00000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2014	DATE - 03/28/14	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY CHICAGO DEPARTMENT OF WATER MANAGEMENT 90/94/290 2013-010R COOK 747 642 STANDARD DETAILS CONTRACT NO. 60W28 OF 8 SHEETS STA. TO STA. SHEET 6