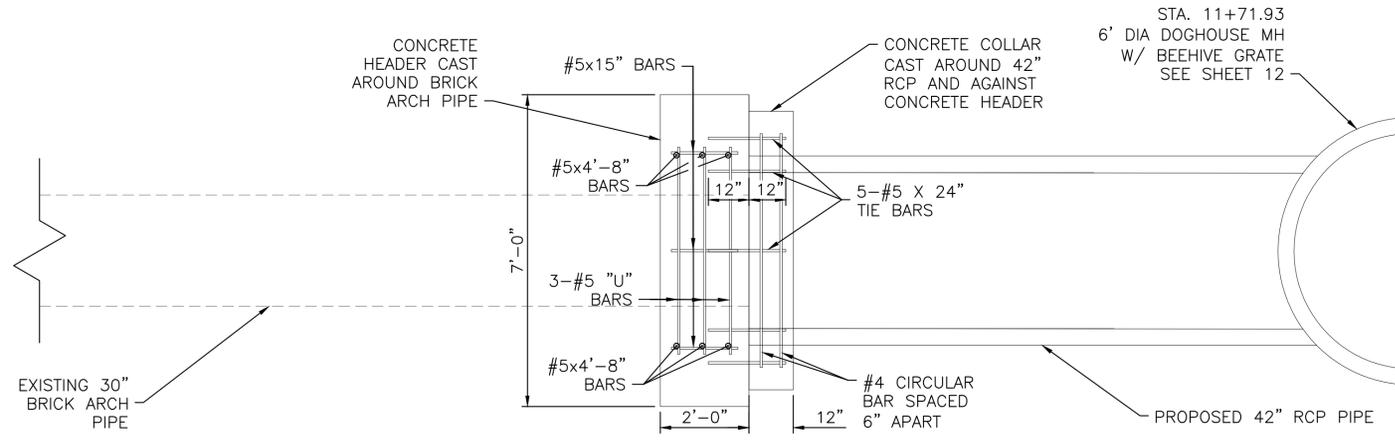
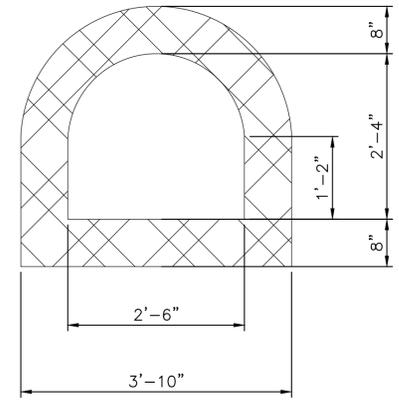


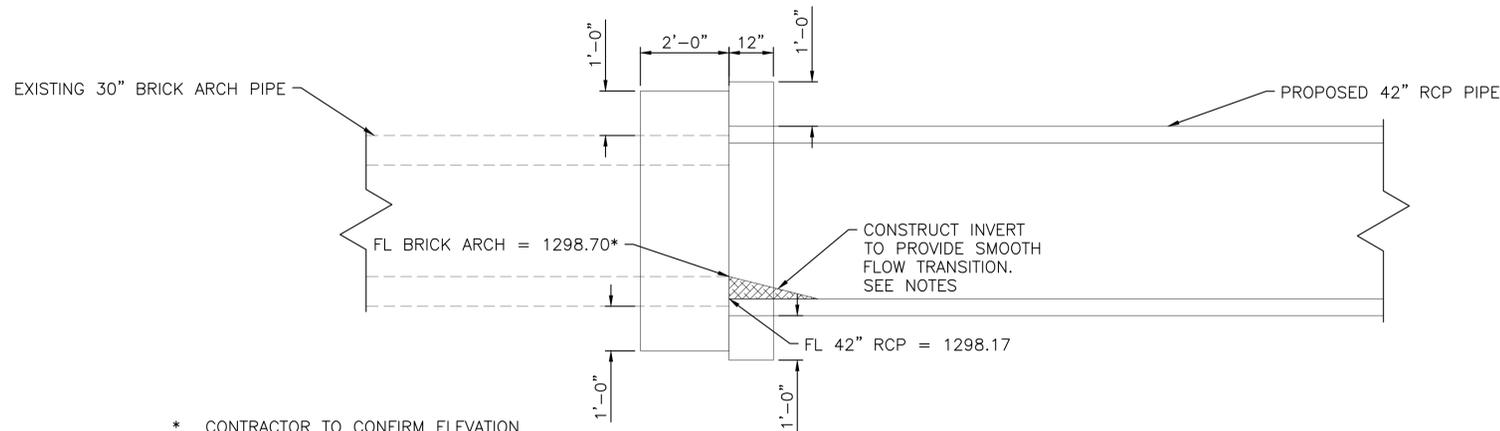
PLOTTED: Friday, August 01, 2025 @ 02:48PM  
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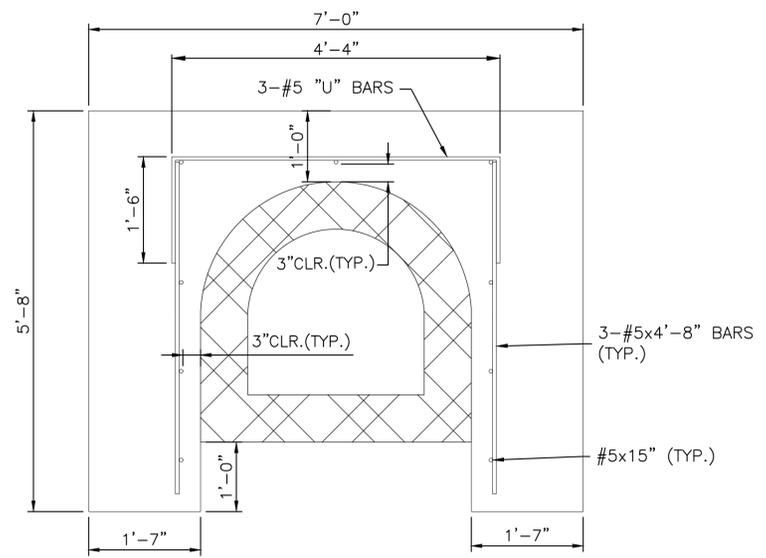
**CONNECTION PLAN**



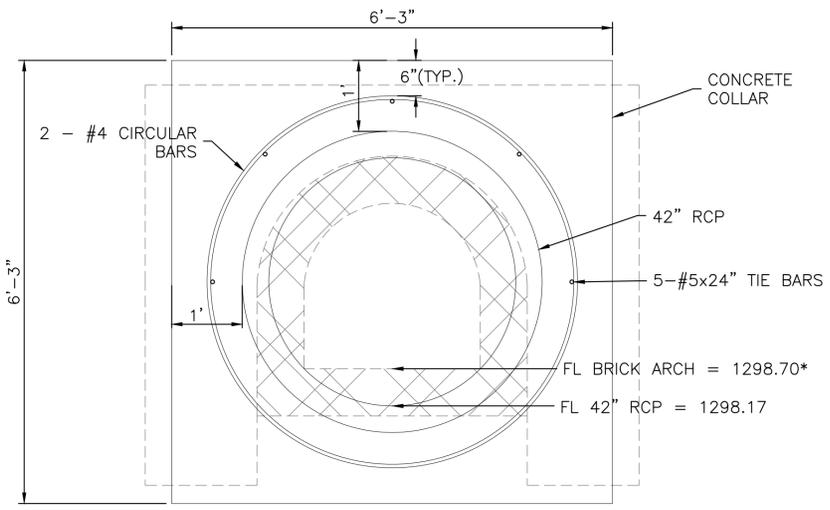
**BRICK ARCH PIPE SECTION**



**SECTION THROUGH PIPES**



**CONCRETE HEADER ELEVATION**



**CONCRETE COLLAR ELEVATION**

\* CONTRACTOR TO CONFIRM ELEVATION OF BRICK ARCH BEFORE INSTALLING 42" RCP. 42" RCP FLOW LINE TO BE ADJUSTED. SEE NOTES.

**NOTES:**

CONSTRUCT THE CONNECTION DURING TIMES WHEN SIGNIFICANT RAIN EVENTS ARE NOT FORECASTED. CONTRACTOR IS TO PROVIDE BYPASS PUMPING AND/OR ROUTING OF STORMWATER CONVEYED THROUGH THE EXISTING STORM SEWER SYSTEM UPSTREAM OF THE CONNECTION DURING CONSTRUCTION OF THE CONNECTION. PEAK INSTANTANEOUS FLOW RATES FOR A ONE-YEAR STORM ARE ESTIMATED AT X CFS, AND A FIVE-YEAR RATE AT X CFS. CONTRACTOR SHALL SUBMIT PUMPING/BYPASS PLAN TO CITY FOR APPROVAL PRIOR TO CONSTRUCTION. BYPASS PUMPING AND ROUTING WILL BE PAID FOR SEPARATELY AS "BYPASS PUMPING".

THE DIMENSIONS SHOWN FOR THE BRICK ARCH PIPE ARE APPROXIMATE AND BASED ON THE BEST INFORMATION AVAILABLE. THE THICKNESS OF THE PIPE IS ASSUMED TO BE 8 INCHES.

EXCAVATIONS FOR HEADER SHALL BE MADE USING HYDROEXCAVATION MEANS. OTHER MEANS OF EXCAVATION SHALL BE APPROVED IN ADVANCE BY THE ENGINEER.

CONTRACTOR SHALL PROVIDE SUPPORT FOR THE BRICK ARCH PIPE INTERNALLY TO PREVENT ITS COLLAPSE. SUPPORT MAY BE PROVIDED BY MEANS THE CONTRACTOR SEES FIT PROVIDED THE SUPPORT WILL BE EVENTUALLY REMOVED. SUPPORT MUST BE IN PLACE PRIOR TO HYDROEXCAVATION FOR THE HEADER AND REMAIN IN PLACE UNTIL ALL CONNECTION CONSTRUCTION IS COMPLETE AND PROPOSED STORM SEWER IS BACKFILLED.

INSTALL THE 42" RCP AGAINST THE CONCRETE HEADER AND EXISTING BRICK ARCH PIPE. PLACE THE 42" RCP SUCH THAT BRICK ARCH ANNULAR SPACE FITS WITHIN RCP ANNULAR SPACE. CONTRACTOR TO CONFIRM ELEVATIONS OF THE EXISTING BRICK ARCH AND PROPOSED 42" RCP AT THE CONNECTION PRIOR TO INSTALLING PIPE.

IT IS INTENDED FOR THIS CONNECTION BE CONSTRUCTED PRIOR TO INSTALLATION OF THE ENTIRE 42" STORM SEWER UPSTREAM OF THE MANHOLE AT STATION 11+71.93 TO ALLOW FOR CONVENIENT ACCESS INSIDE THE PIPE. THE MANHOLE AT STATION 11+71.93 IS SPECIFIED TO BE A DOGHOUSE MANHOLE AND INSTALLED AFTER ALL STORM SEWER PIPE HAS BEEN PLACED.

AFTER 42" RCP HAS BEEN PLACED AND THE CONCRETE COLLAR CONSTRUCTED, CONTRACTOR SHALL CONSTRUCT INVERT HAND-SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE A SMOOTH TRANSITION BETWEEN THE BRICK ARCH PIPE AND 42" RCP. THE CONTRACTOR MAY REPLACE BRICKS IN THE FLOOR OF THE REMAINING ARCH PIPE WITH CONSTRUCTED INVERT IF APPROVED BY THE CITY.

ALL EXCAVATION, EXISTING PIPE SUPPORT, CONCRETE HEADER CONSTRUCTION, AND BACKFILL WILL BE PAID AS "CONNECTION TO EXISTING STRUCTURE". CONSTRUCTION OF THE CONCRETE COLLAR WILL BE PAID FOR SEPARATELY AS "CONCRETE COLLAR".

**SEQUENCE OF CONSTRUCTION:**

1. PLACE INTERNAL SUPPORT WITHIN THE BRICK ARCH PIPE
2. HYDROEXCAVATE SOIL ABOVE AND AROUND BRICK ARCH PIPE
3. CONSTRUCT CONCRETE HEADER
4. EXCAVATE TRENCH FOR 42" RCP
5. INSTALL 42" PIPE AGAINST THE CONCRETE HEADER
6. CONSTRUCT CONCRETE COLLAR
7. CONSTRUCT INVERT WITHIN PIPES
8. BACKFILL COLLAR, HEADER AND PIPE
9. INSTALL DOGHOUSE MANHOLE AT STATION 11+71.93



**IMPROVEMENT PLANS FOR  
 15TH STREET BRIDGE OVER THE  
 WICHITA DRAINAGE CANAL  
 WICHITA, KS**

STORM SEWER CONNECTION TO EXISTING

PROJECT NO. 472-2023-085864

SCALE NA

DRAWN DESIGNED CHECKED  
 WNJ JRA JRA

NO.	REVISION	DATE
0	ISSUED FOR CONSTRUCTION	8-1-2025

SHEET NO. 28 OF 114

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