

**CITY OF SHREVEPORT, LOUISIANA**

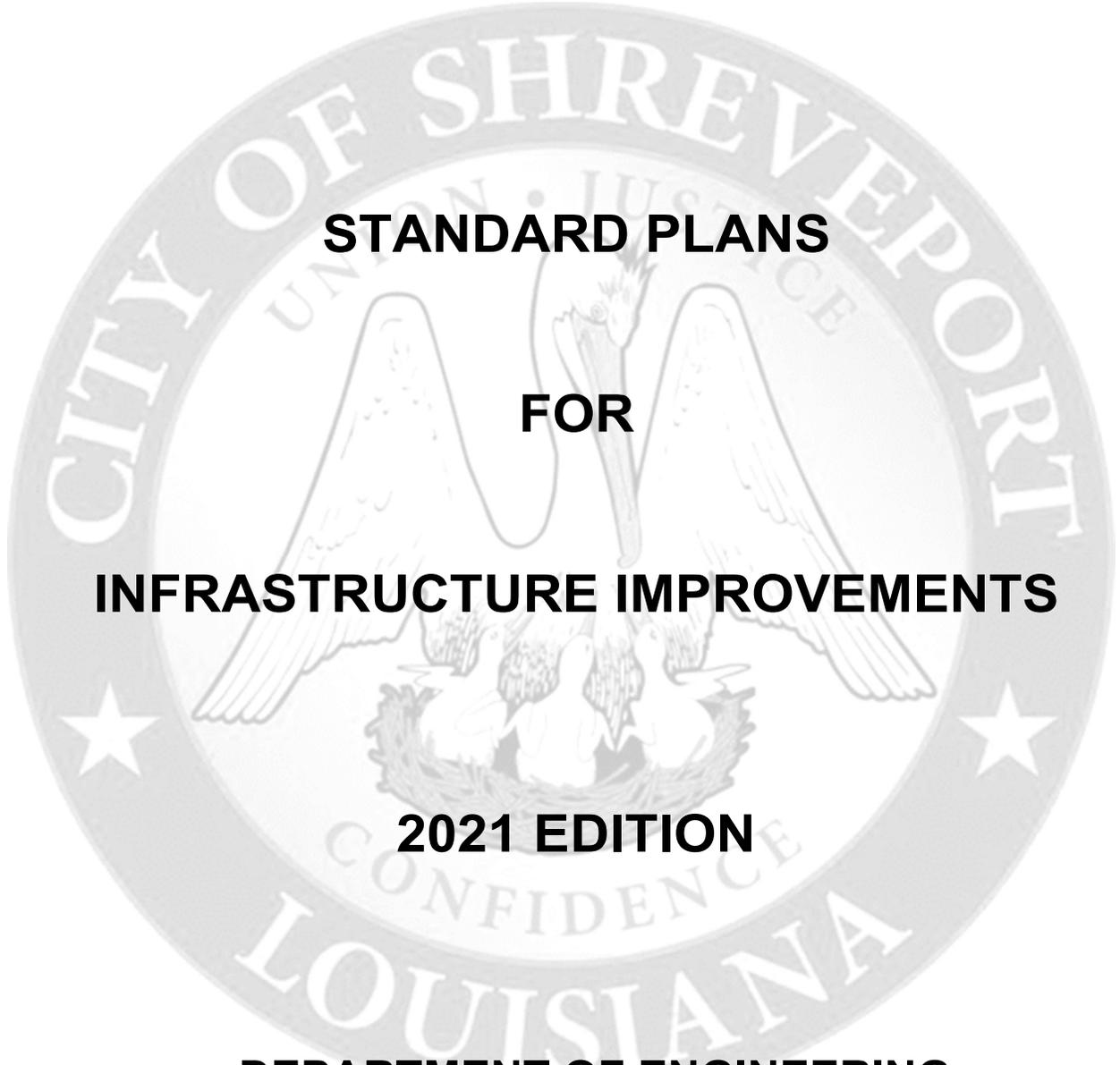
**STANDARD PLANS**

**FOR**

**INFRASTRUCTURE IMPROVEMENTS**

**2021 EDITION**

**DEPARTMENT OF ENGINEERING  
AND ENVIRONMENTAL  
SERVICES**



## **INSTRUCTIONS FOR USE OF CITY OF SHREVEPORT STANDARD DETAILS**

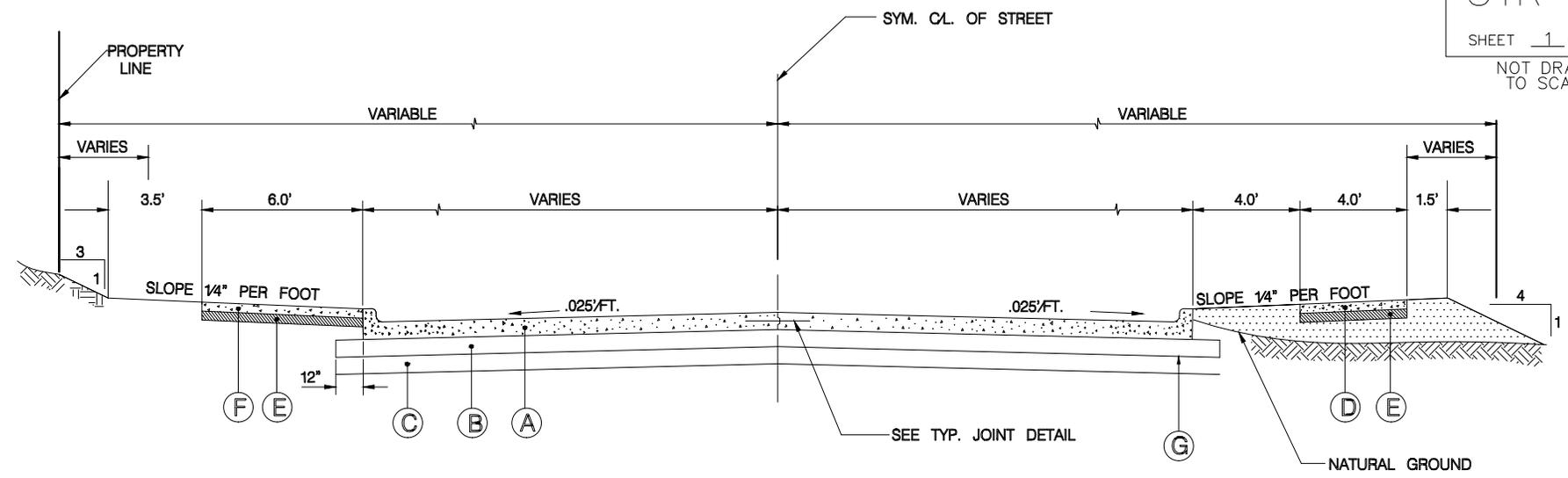
Standard Details are provided by the City of Shreveport for use on City projects.

Engineers shall confirm applicability of City's details with the specific project or situation. If any changes and/or alternative documents to the City's standards are proposed, then they shall be submitted to the City for review. Submittals shall clearly indicate the City document being submitted for review with electronic redlines (markings in red) identifying the proposed changes and/or alternative documents.

The use of City details requires the Engineer of Record to review, update (if necessary) and stamp in accordance with LAPELS requirements. The City is not responsible for misuse of details, errors and omissions.

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**TYPICAL MINIMUM SECTION**

NOT TO SCALE

**LEGEND**

- (A) PORTLAND CEMENT CONCRETE—THICKNESS SHALL BE DETERMINED BY GEOTECHNICAL TESTING, EVALUATION AND REPORT. 8" MINIMUM.
- (B) CRUSHED AGGREGATE BASE - THICKNESS SHALL BE DETERMINED BY GEOTECHNICAL TESTING, EVALUATION AND REPORT. 8" MINIMUM, COMPACTED TO AT LEAST 95% DENSITY (STANDARD EFFORT).
- (C) SUBGRADE SOIL- PREPARATION SHALL BE DETERMINED BY GEOTECHNICAL TESTING, EVALUATION, AND REPORT. COMPACTED TO AT LEAST 95% DENSITY (STANDARD EFFORT).
- (D) 4" THICK PORTLAND CEMENT CONCRETE SIDEWALK
- (E) 4" THICK SANDBASE
- (F) 6' CONCRETE SIDEWALK ADJACENT TO PAVEMENT (4" THICK),
- (G) GEOTEXTILE FABRIC. (EXTEND FULL WIDTH OF BASE)



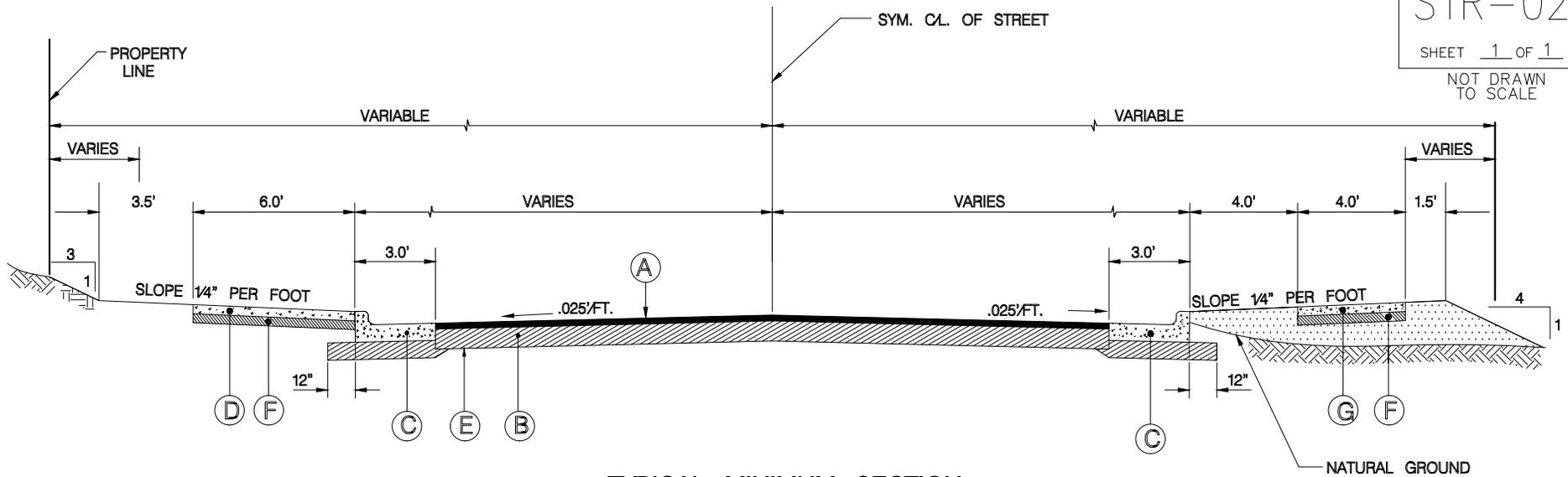
CITY OF SHREVEPORT  
STANDARD PLANS

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TYPICAL CONCRETE PAVING SECTION  
DETAIL

OCTOBER 2021

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PATRICK FURLONG LA LICENSE NUMBER 35185



**TYPICAL MINIMUM SECTION**

NOT TO SCALE

**LEGEND**

- (A) ASPHALT CONCRETE- THICKNESS SHALL BE DETERMINED BY GEOTECHNICAL TESTING, EVALUATION, AND REPORT. 3" MINIMUM.
- (B) CRUSHED AGGREGATE BASE COURSE- THICKNESS SHALL BE DETERMINED BY GEOTECHNICAL TESTING, EVALUATION, AND REPORT. 8" MINIMUM. COMPACTED TO AT LEAST 95% DENSITY (STANDARD EFFORT)
- (C) SUBGRADE SOIL- PREPARATION SHALL BE DETERMINED BY GEOTECHNICAL TESTING, EVALUATION, AND REPORT. COMPACTED TO AT LEAST 95% DENSITY (STANDARD EFFORT).
- (D) 3' CONCRETE CURB AND GUTTER
- (E) 6' CONCRETE SIDEWALK ADJACENT TO PAVEMENT (4" THICK)
- (F) GEOTEXTILE FABRIC (EXTEND FULL WIDTH OF BASE)
- (G) 4" THICK SANDBASE
- (H) 4" THICK PORTLAND CEMENT CONCRETE SIDEWALK



CITY OF SHREVEPORT  
STANDARD PLANS

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TYPICAL ASPHALT PAVING SECTION  
DETAIL

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## GENERAL NOTES

1. PAVEMENT EDGES SHALL BE SLIGHTLY ROUNDED (1/4" APPROX.)
2. UNLESS OTHERWISE SPECIFIED, REASONABLE TOLERANCES TO ALL DIMENSIONS WILL BE ALLOWED.
3. T = THICKNESS OF PAVEMENT.
4. ALL JOINTS TO BE USED WHERE SHOWN ON THESE DETAILS OR AS SHOWN ELSEWHERE IN THE PLANS OR AS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. ALL JOINTS SHALL BE SAND BLASTED. ALL JOINTS REQUIRING SAWING SHALL BE SAWED AS SOON AS CONCRETE PERMITS WITHOUT TEARING OR RAVELING.
5. ON TYPE E JOINTS, SPOT WELD ALTERNATE ENDS OF DOWEL BARS TO DOWEL BASKET.
6. TYPE E JOINTS SHALL BE SEALED WITH SILICONE JOINT SEALER, A NEOPRENE JOINT SEALER OR APPROVED EQUAL WHICH HAS A NOMINAL WIDTH OF 2" BEFORE COMPRESSION AND OF A CONFIGURATION AS APPROVED BY THE CITY ENGINEER MAY BE USED.
7. TYPE L JOINTS SHALL BE SAWED, SAND BLASTED AND SEALED WITH SILICONE JOINT SEALER AS SHOWN AS DETAIL "A" ON STR-08. AN APPROVED PREFORMED JOINT FILLER NOT REQUIRING SEALING MAY BE USED.
8. TYPE T JOINTS SHALL BE SAWED, SAND BLASTED, CLEANED AND SEALED AS SHOWN IN DETAIL "B" ON STR-07. JOINTS SHALL BE SEALED WITH SILICONE. A NEOPRENE JOINT SEALER WHICH HAS A NOMINAL WIDTH OF 13/16" BEFORE COMPRESSION AND OF CONFIGURATION AS APPROVED BY THE ENGINEER MAY BE USED. BALANCE OF FIBERBOARD MAY REMAIN OR BE SAWED AT THE OPTION OF THE CONTRACTOR.
9. WHERE AN APPROVED MECHANICAL PLACEMENT IS NOT UTILIZED, DOWEL BARS AND TIES BARS SHALL BE SUPPORTED IN PLACE BY SUPPORTS SIMILAR TO THE ONES SHOWN OR APPROVED EQUALS. WHEN APPROVED DOWEL BAR ASSEMBLIES ARE USED, SPACER RODS THAT SPAN ACROSS THE JOINT SHALL BE CUT IN THE FIELD AFTER STAKING ASSEMBLY IN PLACE.
10. WHERE SPLIT SLAB CONSTRUCTION IS REQUIRED, TYPE T AND E JOINTS MAY BE SEALED WITH AN APPROVED POURABLE JOINT SEALER WITH BACKING MATERIAL. ALL JOINTS MUST BE SAND BLASTED.
11. ALL LOAD TRANSFER DOWEL BARS SHALL BE SAW CUT AND COATED WITH PLASTIC OR PAINTED AND GREASED.
12. DIAMETER OF LOAD TRANSFER DOWEL BARS SHALL BE T8. (EXAMPLE 10" THICK PAVEMENT = 10<sup>7</sup>/<sub>8</sub> = 1 1/4" DIA. BAR.)

STANDARD PLAN

STR-04

SHEET 1 OF 6

NOT DRAWN  
TO SCALE



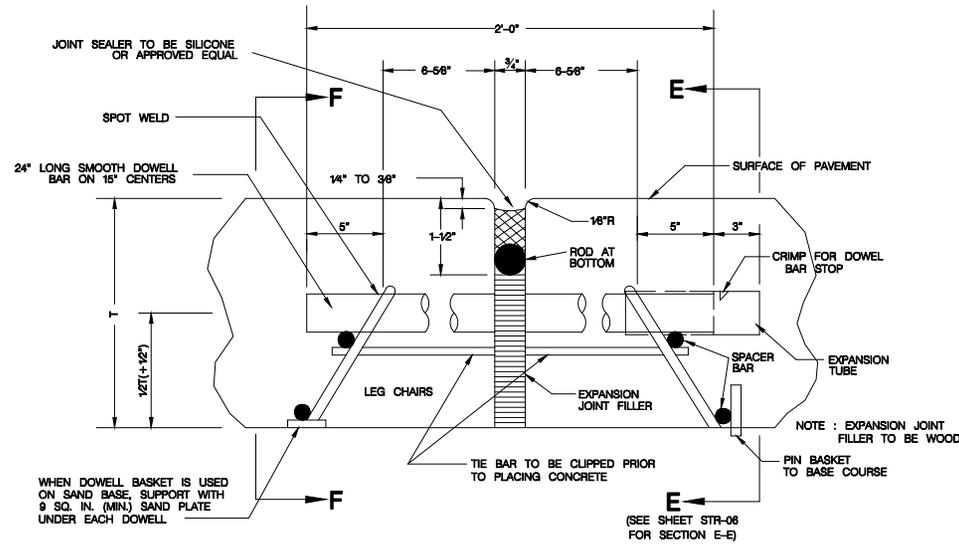
CITY OF SHREVEPORT  
STANDARD PLANS

TYPICAL JOINT DETAIL

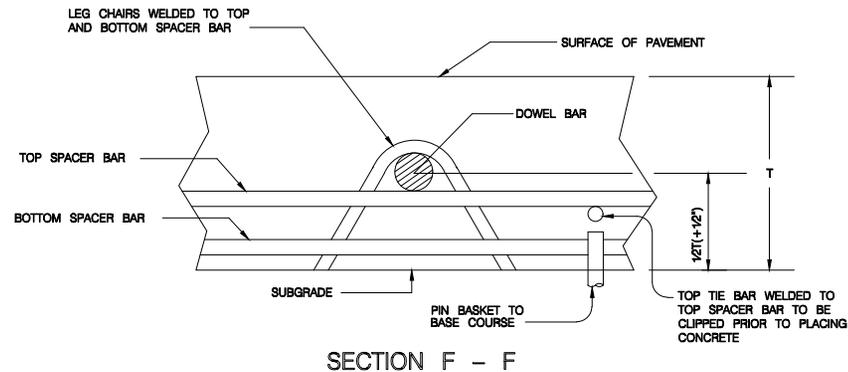
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TRANSVERSE EXPANSION JOINT  
(TYPE E)



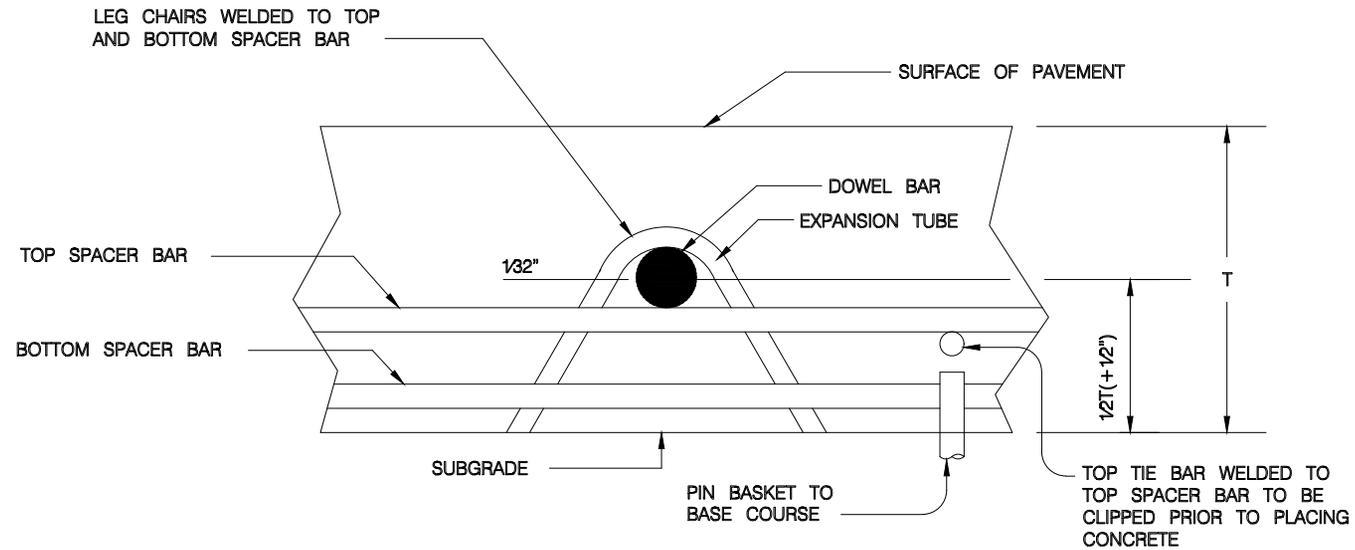
CITY OF SHREVEPORT  
STANDARD PLANS

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TRANSVERSE EXPANSION JOINT DETAIL

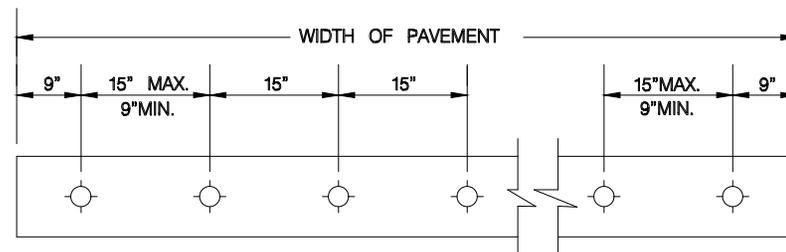
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STANDARD PLAN  
 STR-06  
 SHEET 3 OF 6  
 NOT DRAWN TO SCALE

SECTION E - E

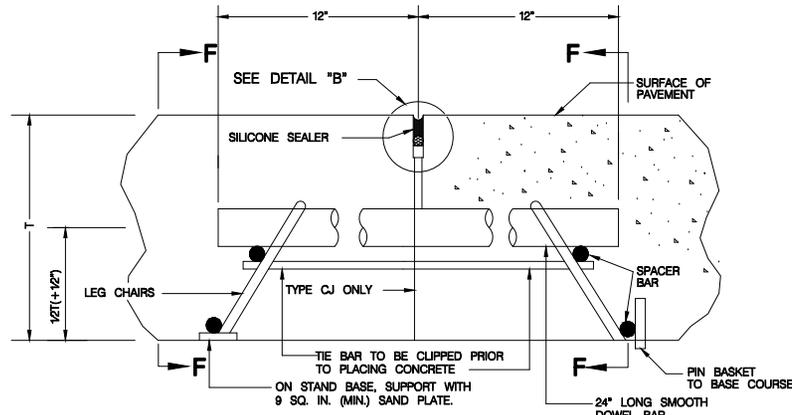


DOWEL BAR SPACING FOR TRANSVERSE JOINTS

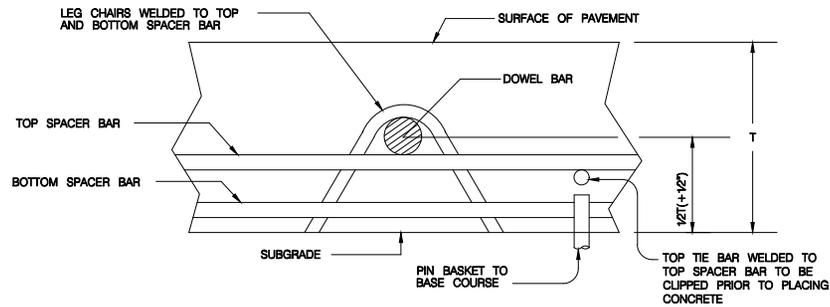


CITY OF SHREVEPORT  
 STANDARD PLANS  
 TRANSVERSE EXPANSION JOINT DETAIL  
 OCTOBER 2021

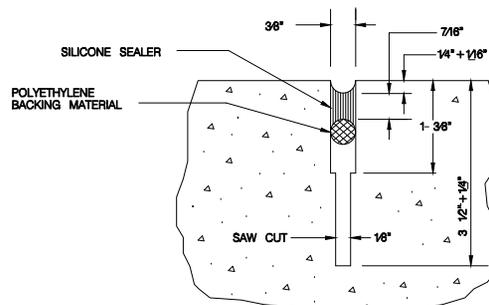
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TRANSVERSE DUMMY JOINT OR CONSTRUCTION JOINT (TYPE T)



SECTION F - F



DETAIL "B"



CITY OF SHREVEPORT  
STANDARD PLANS

TRANSVERSE DUMMY JOINT OR  
CONSTRUCTION JOINT (TYPE T)

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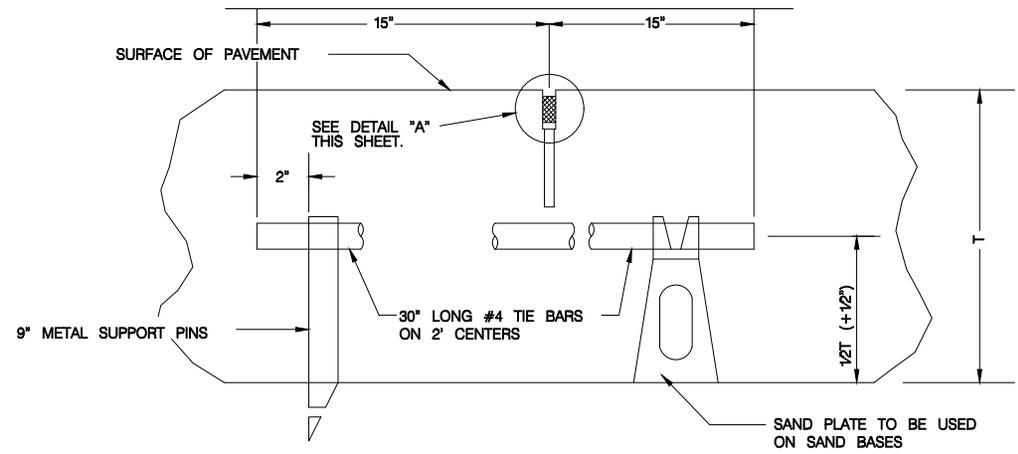
PATRICK FURLONG LA LICENSE NUMBER 35185

STANDARD PLAN

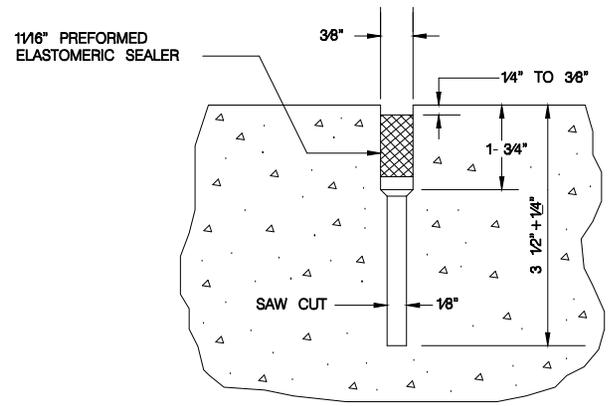
STR-08

SHEET 5 OF 6

NOT DRAWN TO SCALE



LONGITUDINAL JOINT  
TYPE L 2



DETAIL "A"



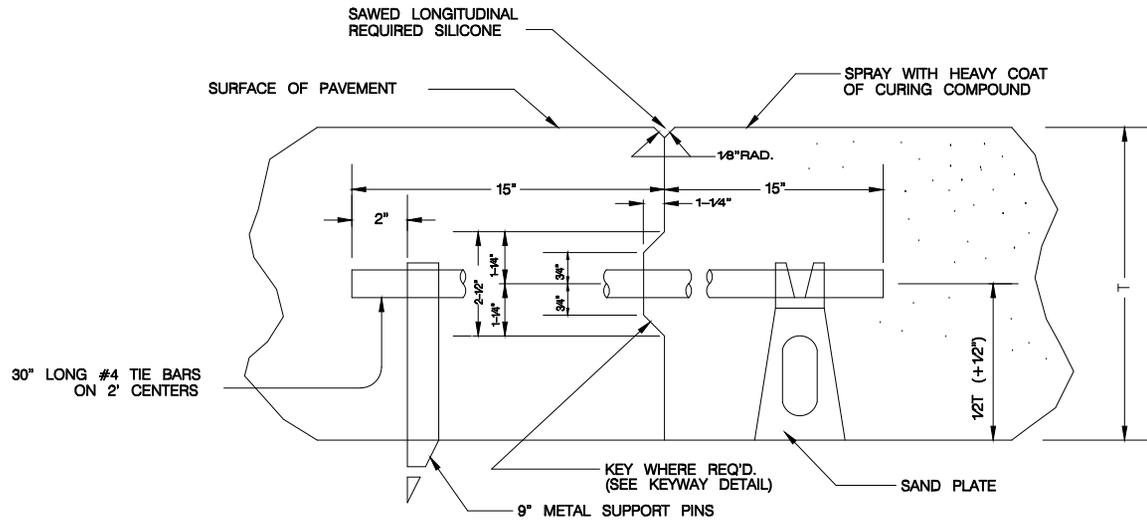
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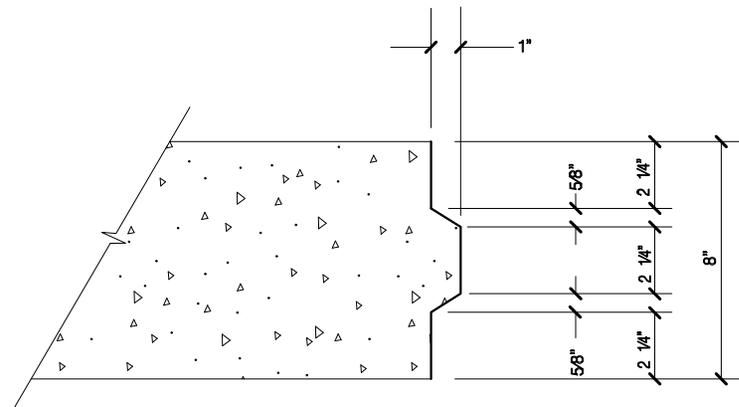
LONGITUDINAL JOINT TYPE L-2

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LONGITUDINAL CONSTRUCTION JOINT  
(TYPE L 1)



KEYWAY DETAIL  
NOT TO SCALE



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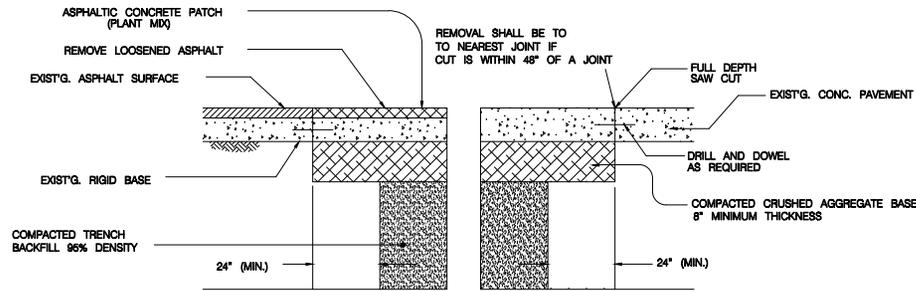
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LONGITUDINAL JOINT TYPE L-1

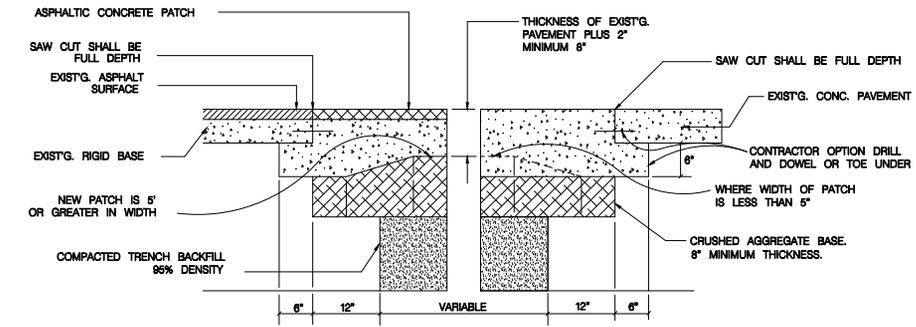
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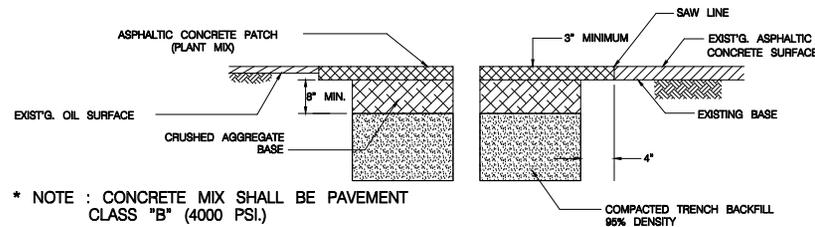
\* NOTE : PAVEMENT UNDER 4 YEARS OF AGE SHALL BE REMOVED AND REPLACED TO NEAREST JOINT.



SECTION "A"  
PAVEMENT 4 TO 10 YEARS OF AGE



- RIGID PAVEMENT WITH ASPHALT SURFACE -  
SECTION "B"  
PAVEMENT OVER 10 YEARS OF AGE  
TYPICAL PATCH FOR RIGID PAVEMENT  
- CONCRETE PAVEMENT -



\* NOTE : CONCRETE MIX SHALL BE PAVEMENT CLASS "B" (4000 PSI.)

TYPICAL PATCH FOR FLEXIBLE PAVEMENT

STANDARD PLAN

STR-10

SHEET 1 OF 2

NOT DRAWN TO SCALE



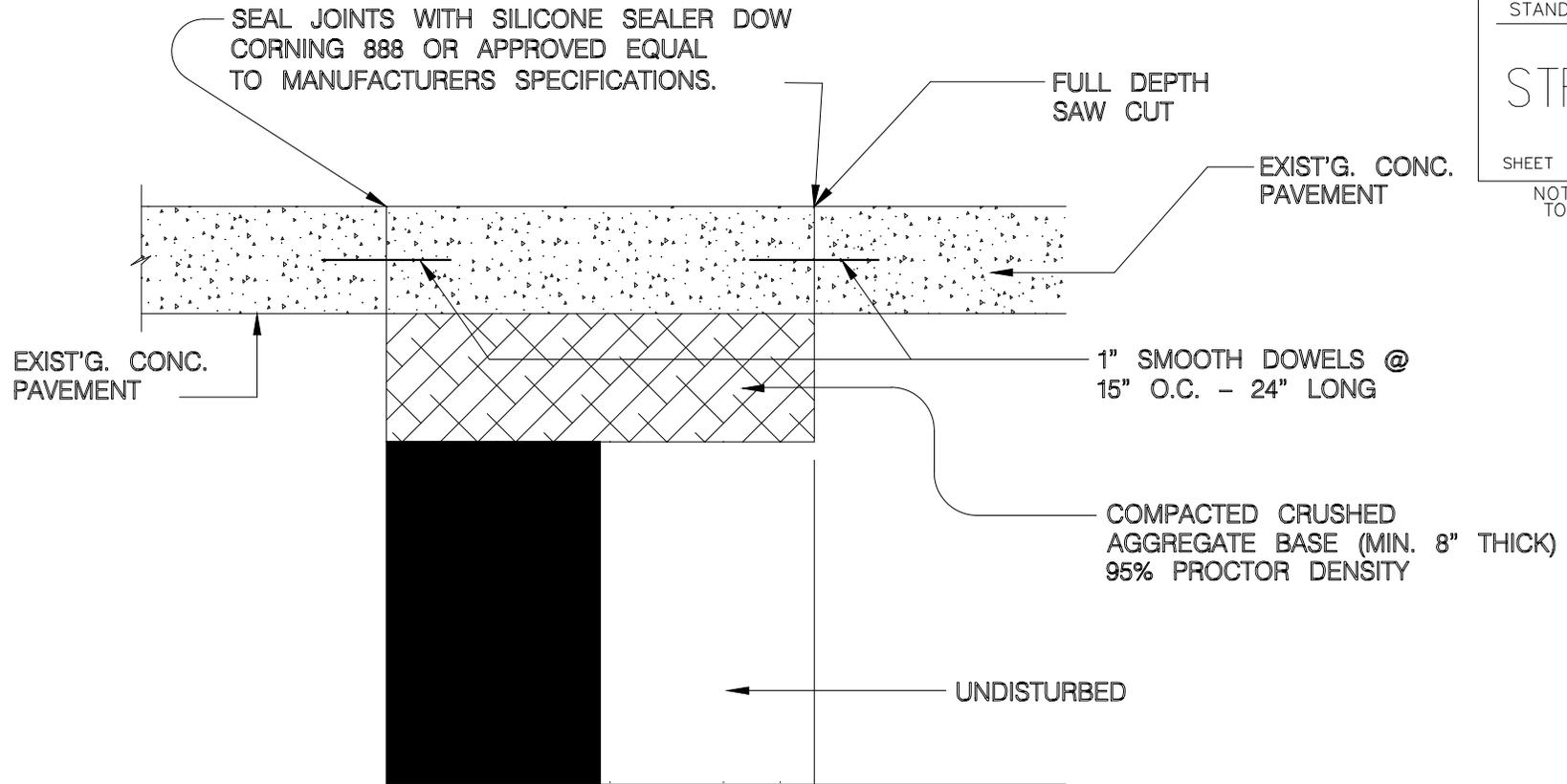
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STANDARD PLANS

PAVEMENT PATCH

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STANDARD PLAN  
 STR-11  
 SHEET 2 OF 2  
 NOT DRAWN TO SCALE

NOTES :

1. CONCRETE FINISH SHALL MATCH EXISTING PAVEMENT FINISH.
2. LONGITUDINAL CONSTRUCTION JOINTS SHALL CONSIST OF A KEYED JOINT WITH 30" LONG #4 TIE BARS ON 24" CENTERS. IF KEYED JOINT IS NOT USED TIE BARS SHALL BE PLACED ON 12" O.C.



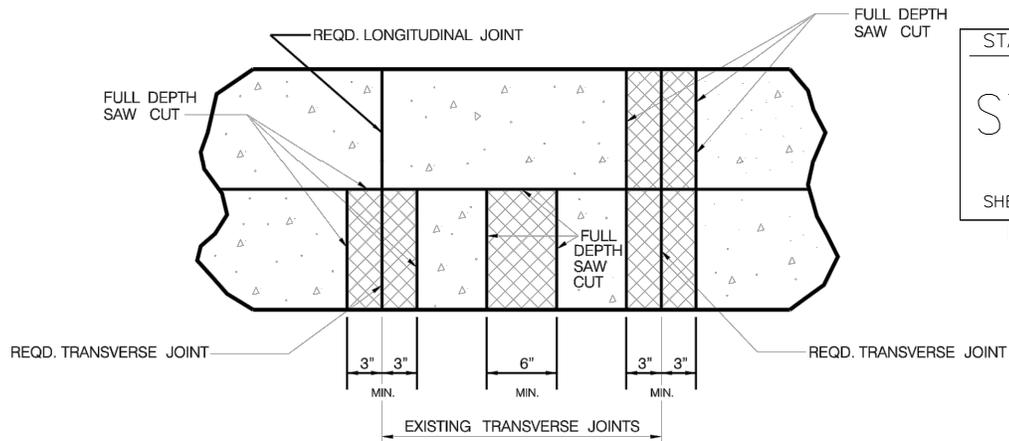
CITY OF SHREVEPORT  
 STANDARD PLANS

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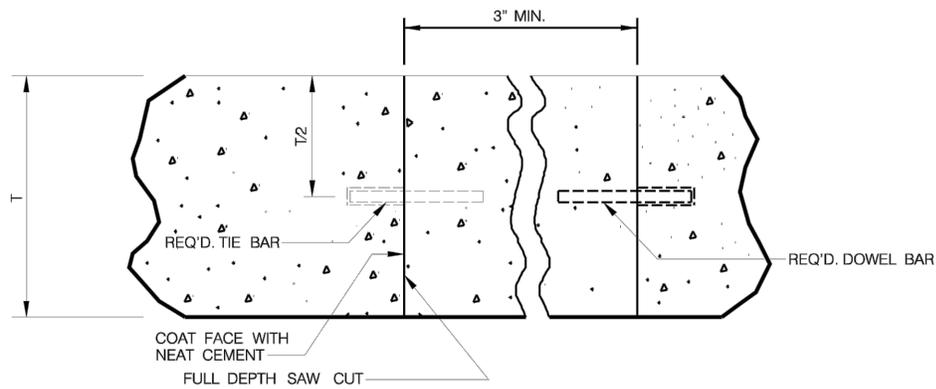
TYPICAL PAVEMENT REPAIR

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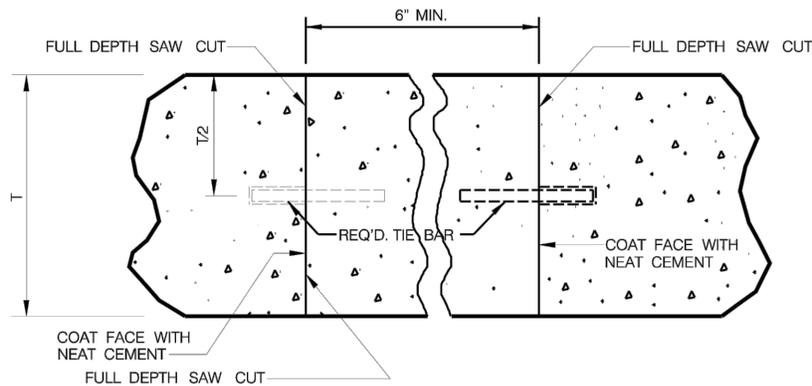
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PATRICK FURLONG LA LICENSE NUMBER 35185



STANDARD PLAN  
**STR-12**  
 SHEET 1 OF 1  
 NOT DRAWN TO SCALE



**PATCHING DETAIL AT TRANSVERSE JOINTS**  
 NOT TO SCALE



**PATCHING DETAIL BETWEEN TRANSVERSE JOINTS**  
 NOT TO SCALE

NOTES :

1. DOWEL BARS AND LONGITUDINAL TIE BARS SHALL TO C.O.S. STANDARD PLANS
2. TRANSVERSE TIE BARS SPACED 12" CENTER TO CENTER, NO. 8 BAR SHALL BE USED FOR TIE BAR
3. RESAW TRANSVERSE JOINTS ON EITHER SIDE OF MID-PANEL PATCH TO A DEPTH TO NEAR THE TOP OF THE DOWELS PRIOR TO PLACING CONCRETE.
4. EXISTING TRANSVERSE VERTICAL FACES TO BE COATED WITH NEAT CEMENT JUST PRIOR TO PLACING CONCRETE.



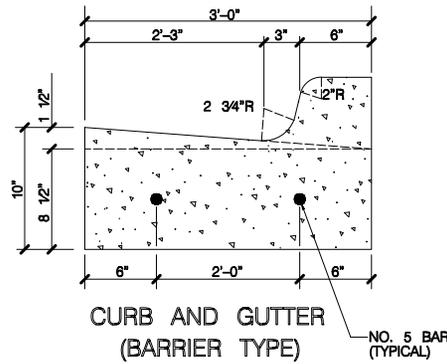
CITY OF SHREVEPORT  
 STANDARD PLANS

JOINT REPAIR DETAIL

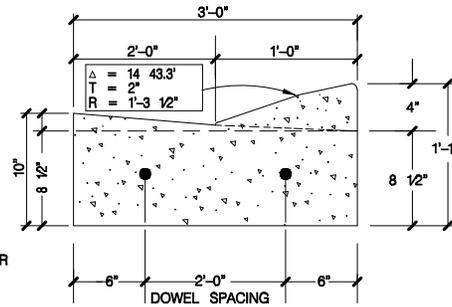
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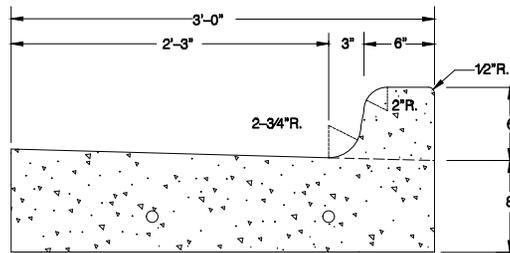
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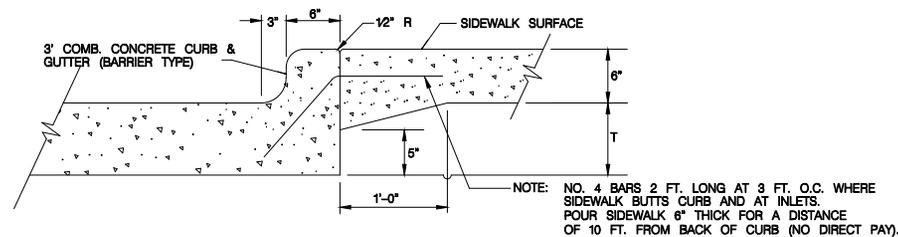
CURB AND GUTTER (BARRIER TYPE)



CURB AND GUTTER (MOUNTABLE TYPE)



3 FT. CURB AND GUTTER



SIDEWALK ABUTTING CURB



OCTOBER 2021

CITY OF SHREVEPORT  
STANDARD PLANS

3 FT. CURB AND GUTTER

**PRELIMINARY - NOT FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

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NOT USED .....	ST-11
NOT USED .....	ST-12
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## GENERAL NOTES

1. ALL CORNERS TO BE CHAMFERED 3/4".
2. RUBBED FINISH REQUIRED ON EXPOSED SURFACES.
3. REINFORCED CONCRETE SHALL BE CLASS "A" CONCRETE (3800 P.S.I. - 28 DAYS). PORTLAND CEMENT SHALL CONFORM TO AASHTO DESIGNATION M-85. REIF. BARS SHALL CONFORM TO A.S.T.M. DESIGNATION A-615 (GRADE 40).
4. STEEL IN FRAME AND COVER TO CONFORM TO A.S.T.M. DESIGNATION A-36 AS AMENDED TO DATE, AND SHALL BE GALVANIZED AFTER FABRICATION. GAVANIZING TO CONFORM TO A.S.T.M. A-123.
5. STEEL MESH TO CONFORM TO A.S.T.M. A-185.
6. BACKFILL TO BE COMPACTED AT LEAST 95% DENSITY (STANDARD EFFORT).
7. INLET MAY BE CONSTRUCTED AS SINGLE UNIT OR IN MULTIPLES OF 2 AND 3 UNITS USING THE CONNECTING BEAM AS SHOWN IN DETAIL ON SHEET ST-03.
8. THE MINIMUM DISTANCE FROM THE TOP OF A PIPE ENTERING OR LEAVING THE INLET BOX SHALL BE 2'-6". FOR PIPE UNDER PAVEMENT (FRONT OF INLET BOX) AND 2'-0" FOR SIDES AND BACK OF THE INLET BOX.
9. STORM SEWER PIPE SHOULD BE INSTALLED BEFORE INTAKE SIDEWALL CONSTRUCTION IS STARTED. SIDEWALLS SHOULD BE CONSTRUCTED AS INDICATED WITH OPENINGS FOR STORM SEWER SMOOTHLY SHAPED AND NO INLET PIPES PROJECTING UNNECESSARILY INTO WALL. OUTLET PIPE SHALL NOT PROJECT BEYOND INSIDE FACE OF SIDEWALL.
10. ALL REINFORCING STEEL SHALL BE 1-12" CLEAR OF CONCRETE SURFACE UNLESS OTHERWISE NOTED.
11. REINFORCING STEEL SHALL BE BENT AROUND PIPE OPENING WHEN POSSIBLE. IF STEEL IS CUT, A DIAGONAL BAR SHALL BE USED TO TIE ALL CUT END TOGETHER.
12. EXPANSION JOINT DETAIL AND DOWEL PLACEMENT SAME AS THAT SHOWN ON APPROPRIATE PAVEMENT AND CURB STANDARD PLANS.
13. A CONCRETE FILLET SHALL BE PLACED IN THE BOTTOM OF THE INTAKE APPROXIMATELY AS INDICATED OR DIRECTED BY THE CITY ENGINEER. SPECIAL SHAPING OF THIS FILLET IS REQUIRED TO PROVIDE A SMOOTH CHANNEL THROUGH THE INLET BOX. TOP SURFACE OF THE FILLET SHALL SLOPE APPROXIMATELY 1 INCH PER FOOT TOWARD THE CHANNEL.
14. NO SCALE, FOLLOW DIMENSIONS.



CITY OF SHREVEPORT  
STANDARD PLANS

CATCH BASIN AND  
48" STANDARD INLET

OCTOBER 2021

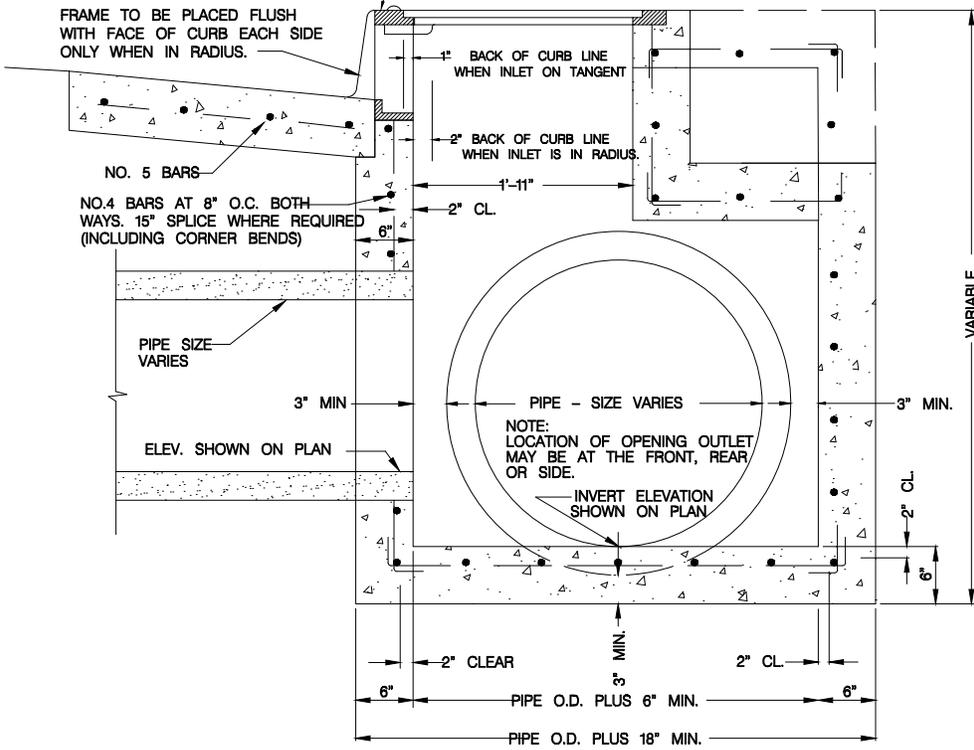
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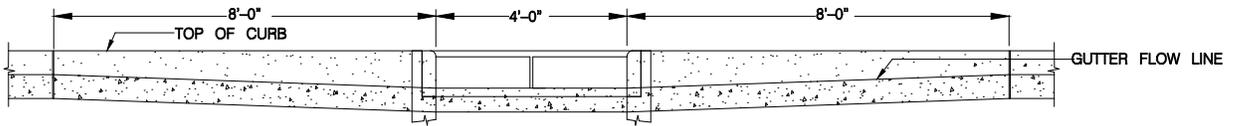
USE V-4304-1 CASTING IN STRAIGHT CURB,  
AND V-4305-1 CASTING IN RADIUS CURB

ALTERNATE:  
VERTICAL WALL MAY BE FORMED STRAIGHT UP  
TO GRATE ELEVATION OR OFFSET AND THEN  
FORMED UP TO GRATE ELEVATION AS SHOWN.

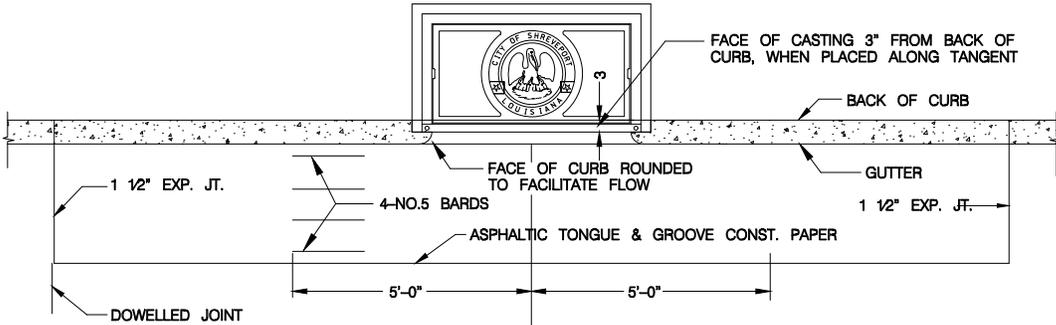
STANDARD PLAN  
**ST-02**  
SHEET 2 OF 5  
NOT DRAWN  
TO SCALE



**INLET SECTION B-B**  
NOT TO SCALE



**ELEVATION**  
(SHOWING MANNER OF PLACING)  
NOT TO SCALE



**PLAN**  
NOT TO SCALE

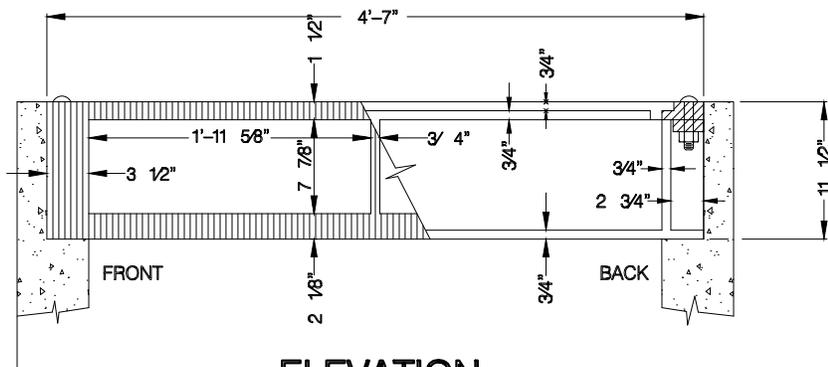
NOTE:  
CASTINGS SHALL BE UNCOATED.



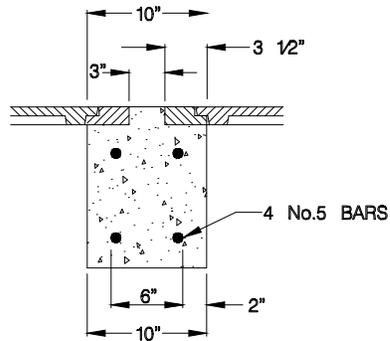
CITY OF SHREVEPORT  
STANDARD PLANS  
**CATCH BASIN AND  
48" STANDARD INLET**  
OCTOBER 2021

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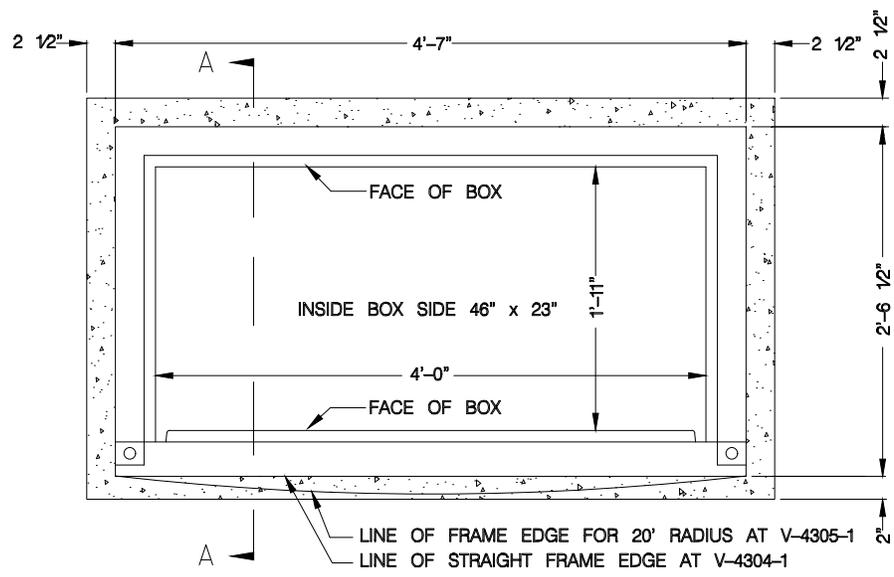
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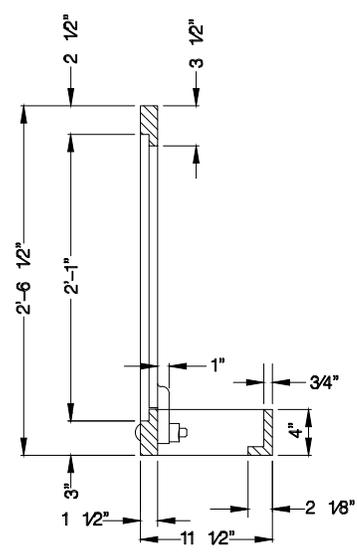
**ELEVATION**  
 NOT TO SCALE



**CONNECTING BEAM FOR MULTIPLE INLETS**  
 NOT TO SCALE



**INLET PLAN**  
 NOT TO SCALE

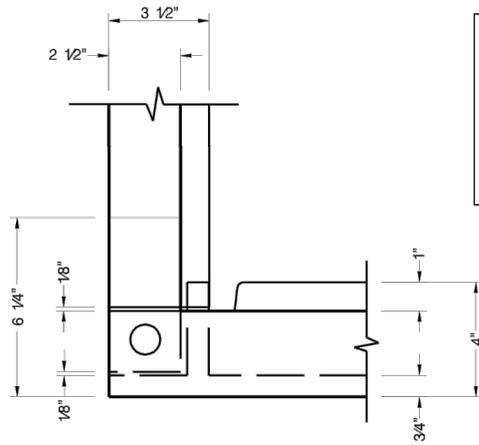


**FRAME SECTION A - A**  
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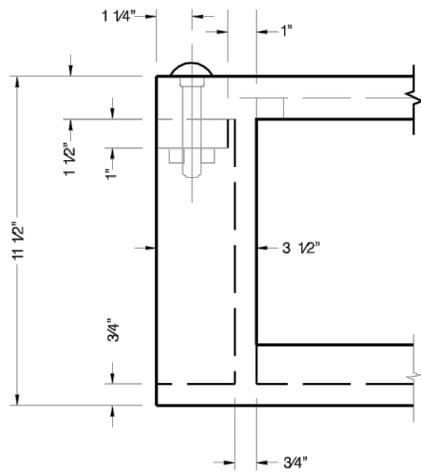
CITY OF SHREVEPORT  
 STANDARD PLANS  
 CATCH BASIN AND  
 48" STANDARD INLET  
 OCTOBER 2021

**PRELIMINARY - NOT FOR CONSTRUCTION**  
 PATRICK FURLONG LA LICENSE NUMBER 35185

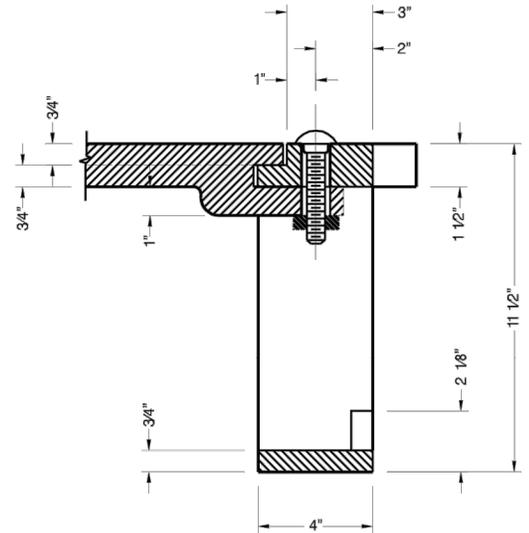


STANDARD PLAN  
 ST-04  
 SHEET 4 OF 5  
 NOT DRAWN TO SCALE

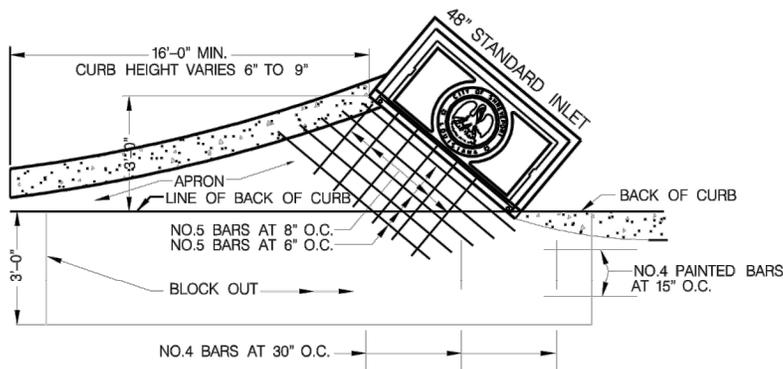
FRAME DETAIL - PLAN  
 NOT TO SCALE



FRAME DETAIL - ELEVATION  
 NOT TO SCALE



FRAME DETAIL - SECTION  
 NOT TO SCALE



SKEWED INLET DETAIL  
 NOT TO SCALE



CITY OF SHREVEPORT  
 STANDARD PLANS

CATCH BASIN AND  
 48" STANDARD INLET

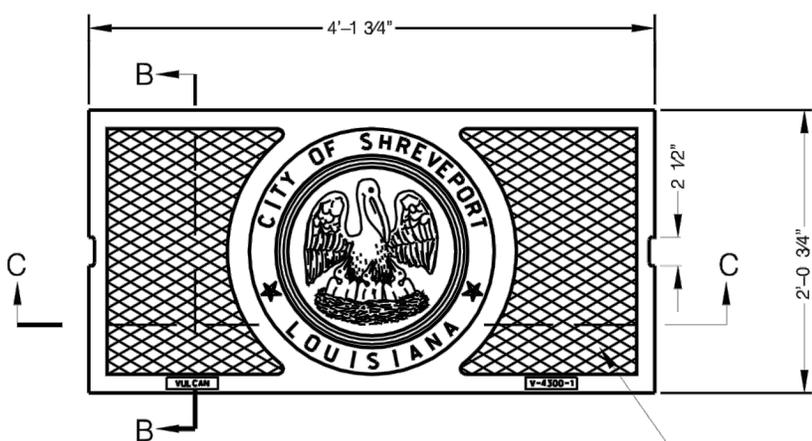
OCTOBER 2021

**PRELIMINARY - NOT  
 FOR CONSTRUCTION**

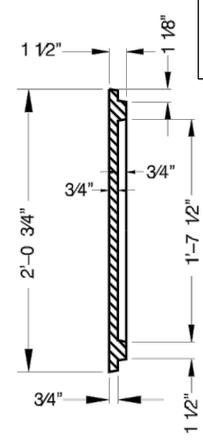
PATRICK FURLONG LA LICENSE NUMBER 35185

STANDARD PLAN  
 ST-05  
 SHEET 5 OF 5

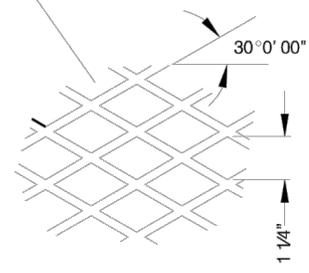
NOT DRAWN TO SCALE



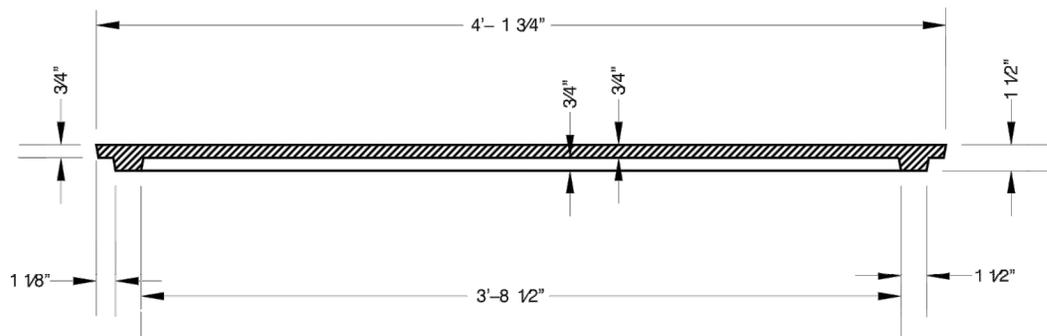
COVER TOP VIEW  
 NOT TO SCALE



COVER SECTION B - B  
 NOT TO SCALE



TYPICAL PATTERN  
 NOT TO SCALE

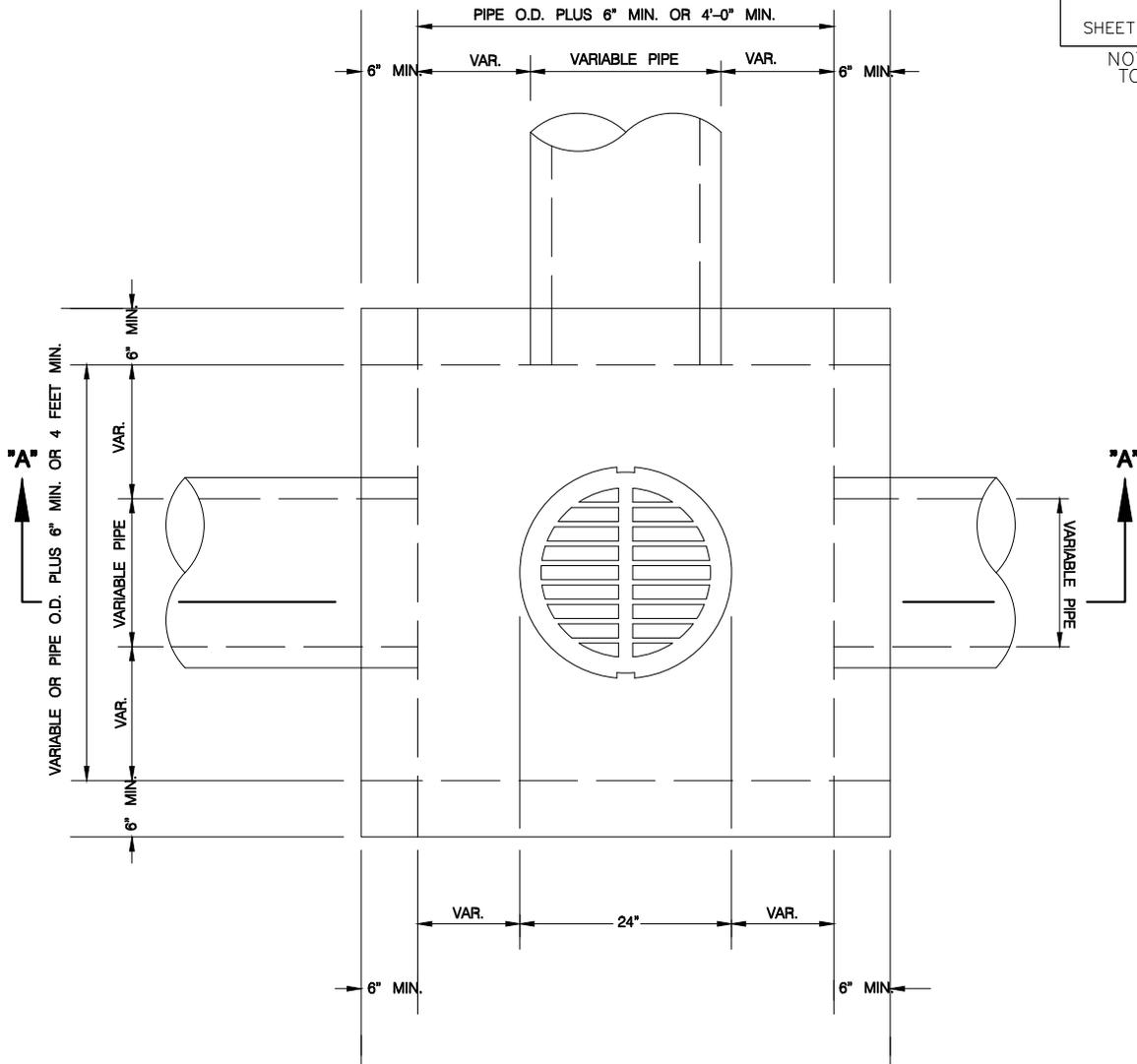


CROSS SECTION C - C  
 NOT TO SCALE



CITY OF SHREVEPORT  
 STANDARD PLANS  
 CATCH BASIN AND  
 48" STANDARD INLET  
 OCTOBER 2021

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 PATRICK FURLONG LA LICENSE NUMBER 35185



NOTE : GRATE INLETS TYPE "A" AND TYPE "B" TO ACCOMMODATE ONE (1) TO FOUR (4) STORM DRAINAGE PIPES. (SEE DETAIL SECTION "A - A" ON SHEET ST-07).

### PLAN GRATE INLET TYPE "A"



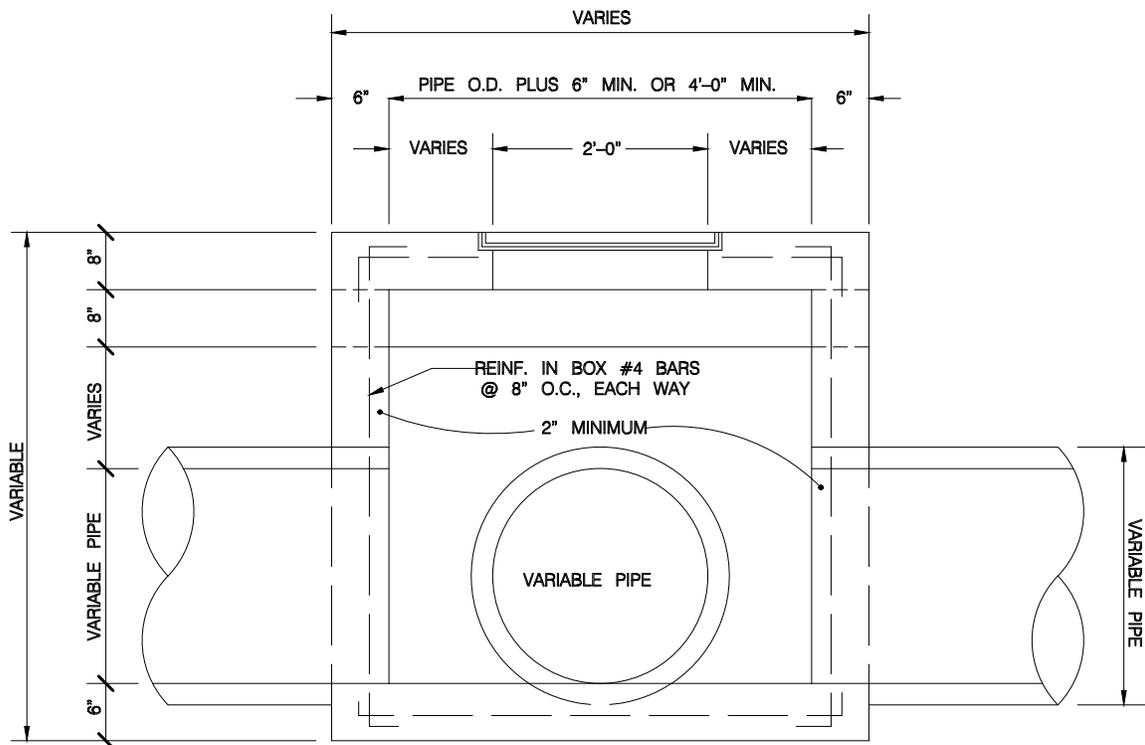
CITY OF SHREVEPORT  
STANDARD PLANS

GRATE INLET TYPE A  
(FOR ROADWAY USE ONLY)

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### SECTION "A - A"

NOTES:

1. 15" SPLICE WHERE REQUIRED



CITY OF SHREVEPORT  
STANDARD PLANS

GRATE INLET TYPE A  
(FOR ROADWAY USE ONLY)

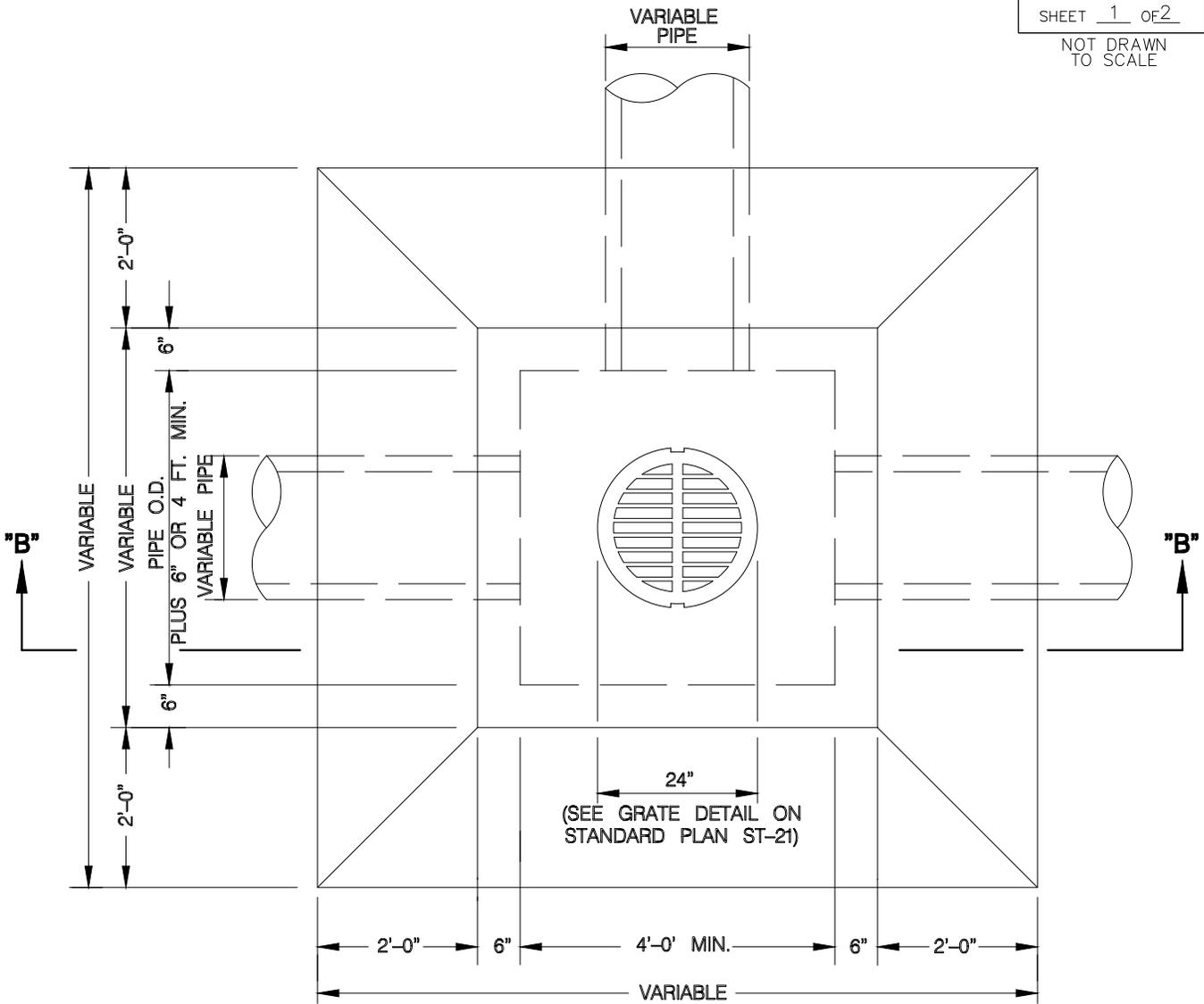
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PATRICK FURLONG LA LICENSE NUMBER 35185

STANDARD PLAN  
 ST-08  
 SHEET 1 OF 2

NOT DRAWN  
 TO SCALE



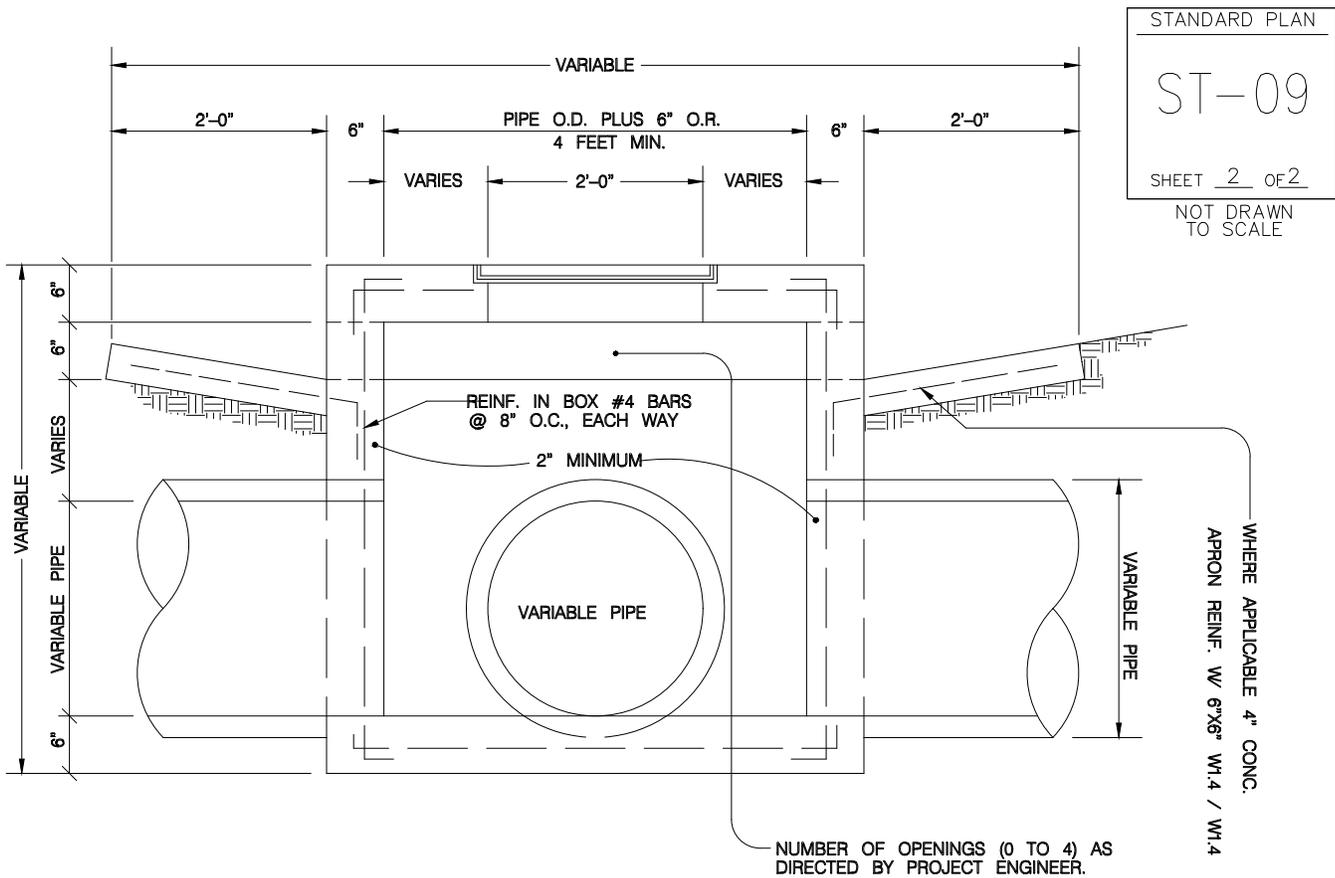
NOTE : SEE DETAIL SECTION "B - B" ON SHEET ST-09

PLAN  
 GRATE INLET TYPE "B"



CITY OF SHREVEPORT  
 STANDARD PLANS  
 GRATE INLET TYPE B  
 (OFF ROADWAY USE ONLY)  
 OCTOBER 2021

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### SECTION "B - B"

NOTES :

1. ALL CORNERS TO BE CHAMFERED 3/4".
2. RUBBED FINISH REQUIRED ON EXPOSED SURFACES.
3. REINFORCED CONCRETE SHALL BE CLASS 'A' CONCRETE (3800 P.S.I. - 28 DAYS). PORTLAND CEMENT SHALL CONFORM TO AASHTO DESIGNATION M-85, REIF. BARS SHALL CONFORM TO A.S.T.M. DESIGNATION A-615 (GRADE 40).
4. 24" ROUND C.I. FRAME AND LID UNCOATED.
5. WELDED WIRE REINFORCEMENT TO CONFORM TO A.S.T.M. A-185.
6. GRATES TO BE CENTERED.
7. BACKFILL TO BE COMPACTED TO AT LEAST 95% OF MAX. DRY DENSITY. (STANDARD EFFORT)



CITY OF SHREVEPORT  
STANDARD PLANS

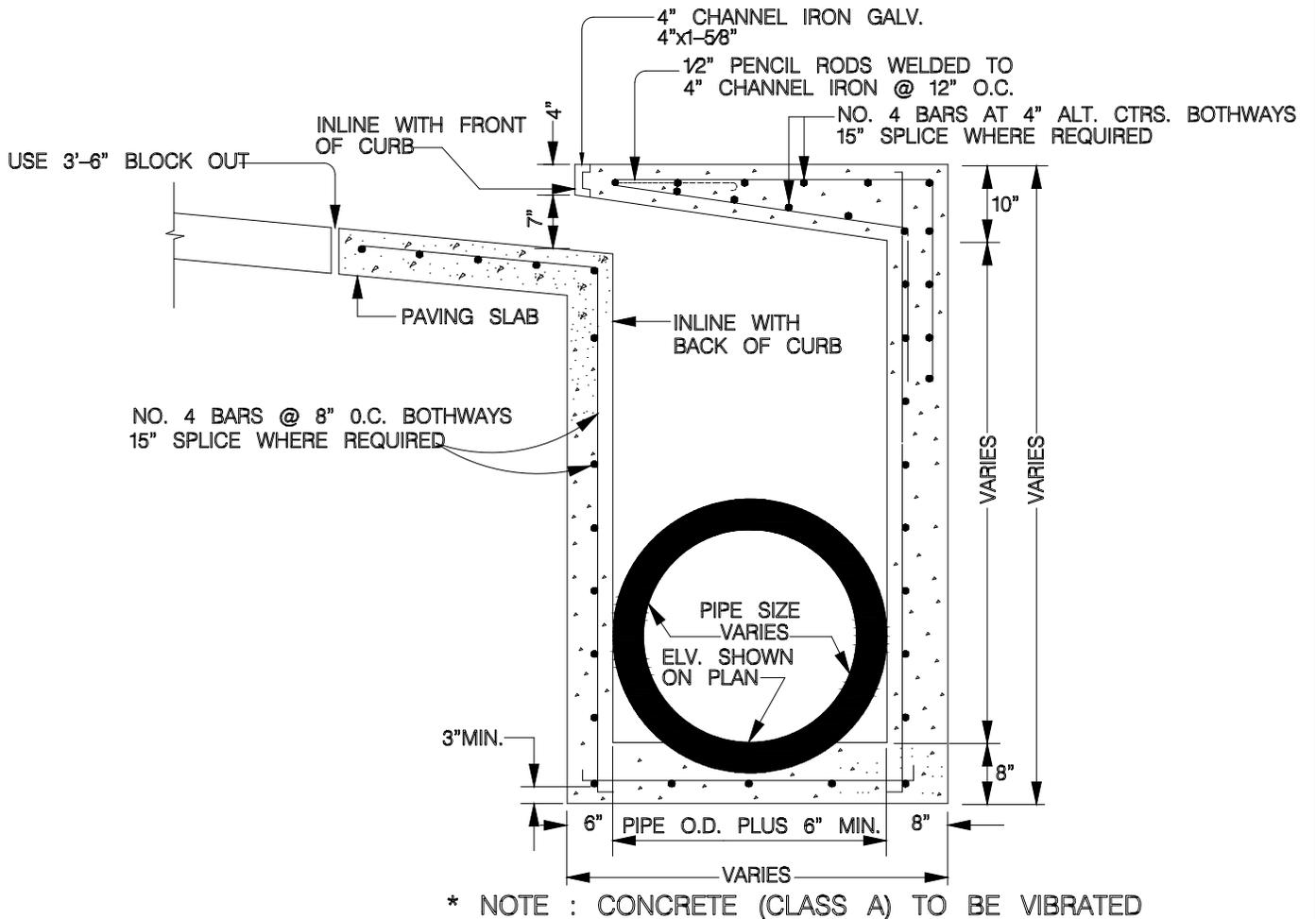
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GRATE INLET TYPE B  
(OFF ROADWAY USE ONLY)

OCTOBER 2021

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PATRICK FURLONG LA LICENSE NUMBER 35185



SECTION "A - A"

NOT TO SCALE



CITY OF SHREVEPORT  
STANDARD PLANS

SPECIAL INLET  
CANTILEVER THROAT

OCTOBER 2021

**PRELIMINARY - NOT  
FOR CONSTRUCTION**

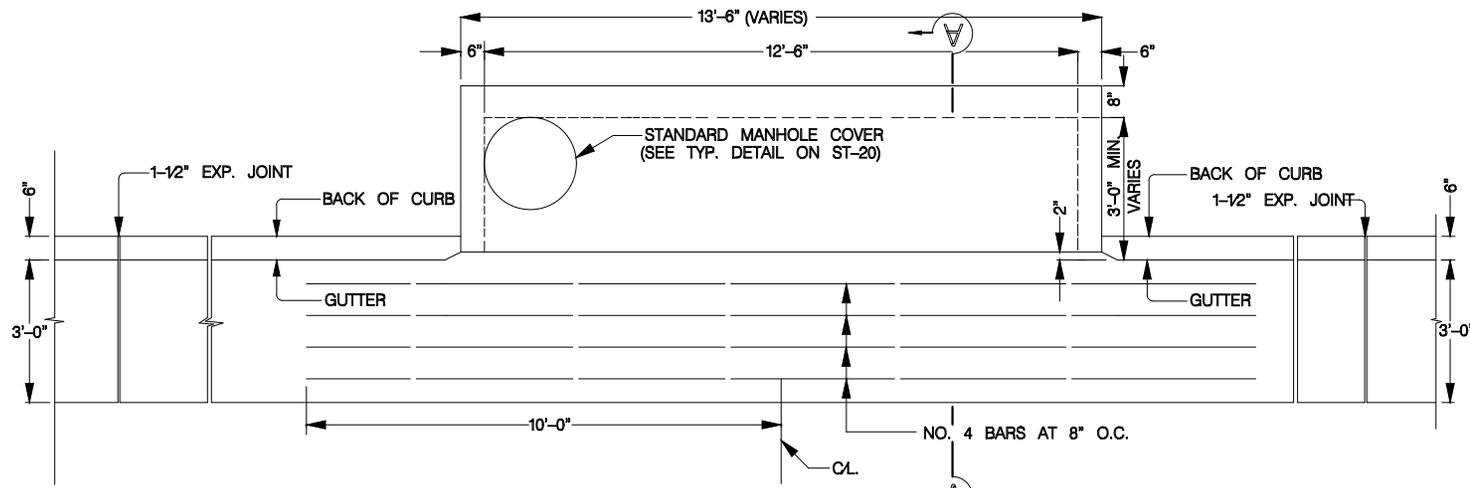
PATRICK FURLONG LA LICENSE NUMBER 35185

STANDARD PLAN

ST-17

SHEET 2 OF 2

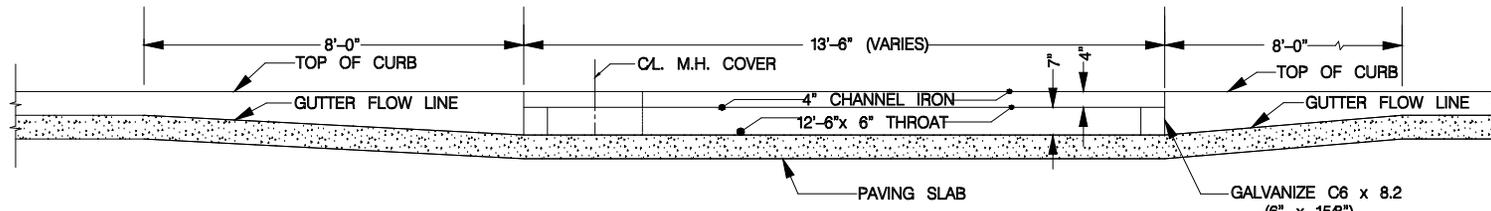
NOT DRAWN TO SCALE



PLAN

NOT TO SCALE

SECTION A-A ON ST-16



ELEVATION

NOT TO SCALE

\* NOTE : ALL EXPOSED CORNERS TO BE CHAMFERED



CITY OF SHREVEPORT  
 STANDARD PLANS

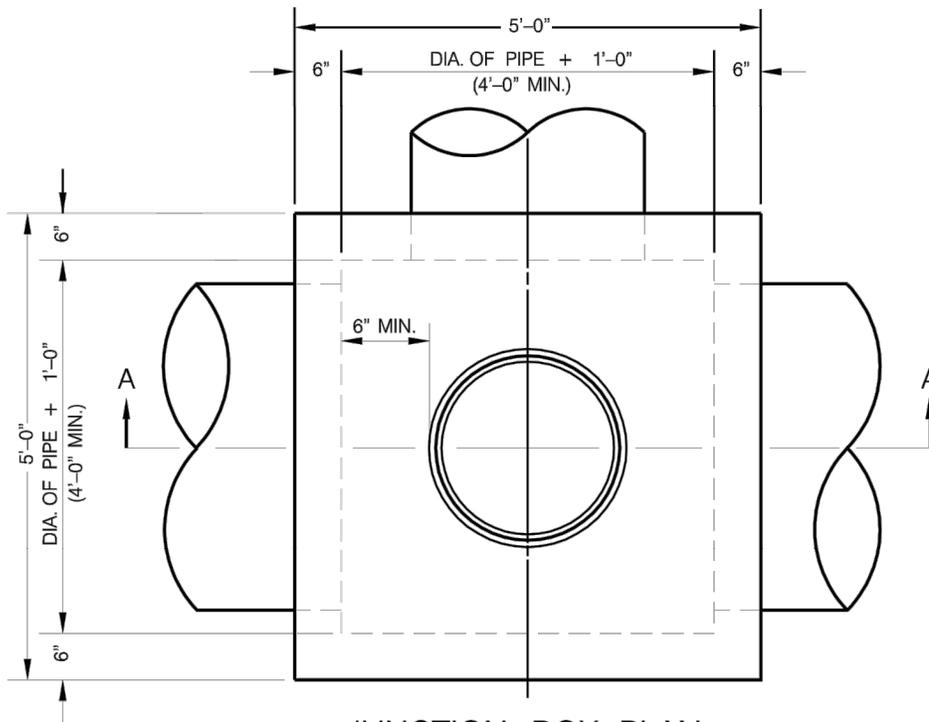
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SPECIAL INLET  
 CANTILEVER THROAT

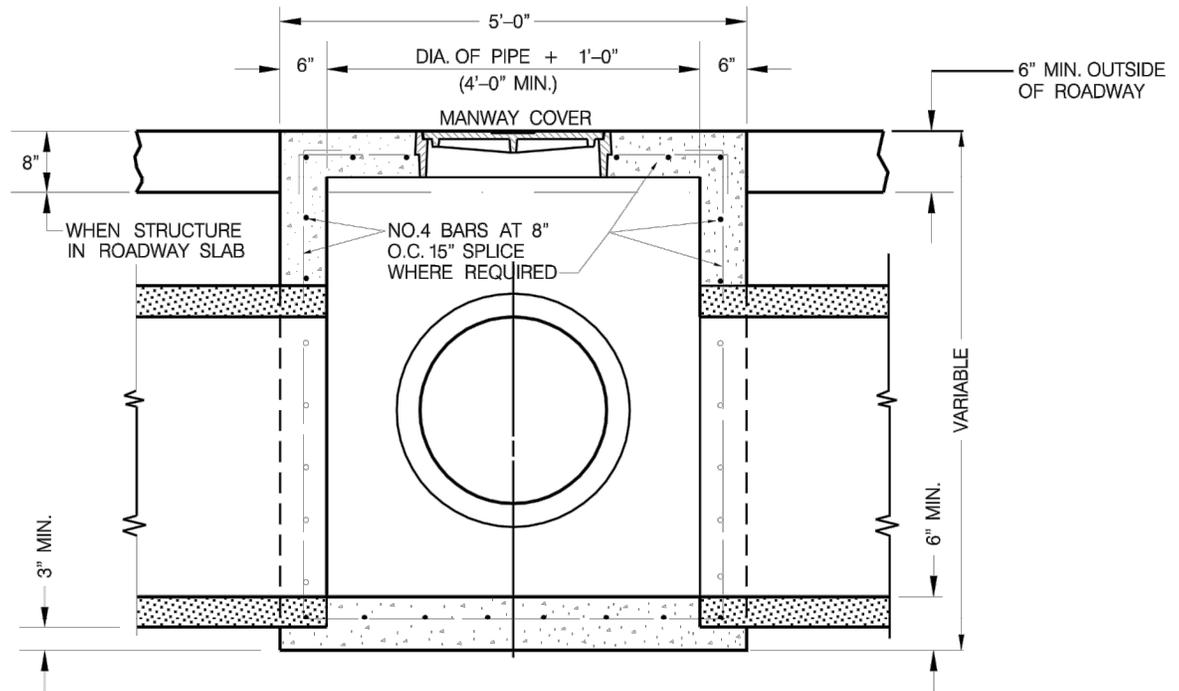
OCTOBER 2021

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 FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185



JUNCTION BOX PLAN  
NOT TO SCALE



JUNCTION BOX SECTION "A - A"  
NOT TO SCALE



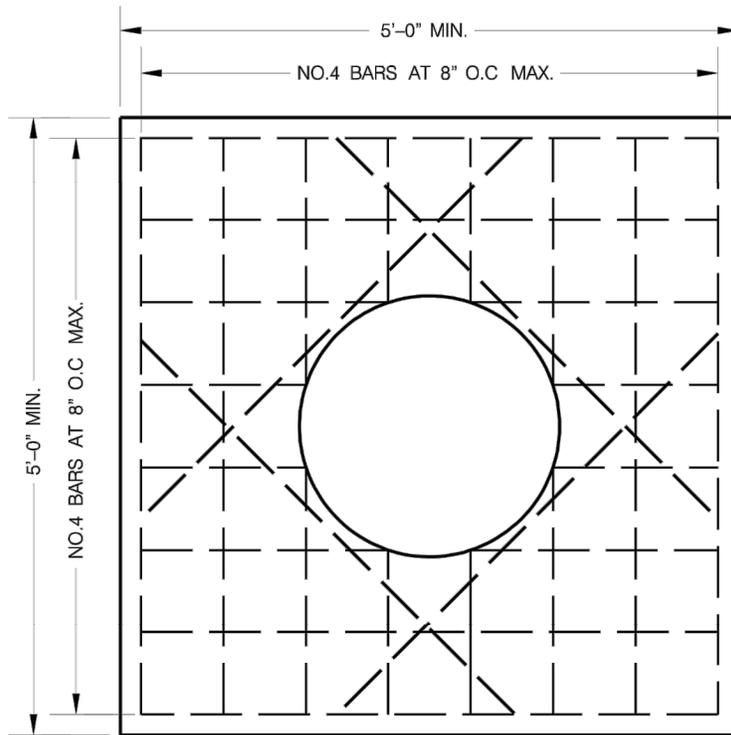
CITY OF SHREVEPORT  
STANDARD PLANS

TYPICAL JUNCTION BOX WITH SOLID  
OR GRATE COVER

OCTOBER 2021

**PRELIMINARY - NOT  
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185



STANDARD PLAN

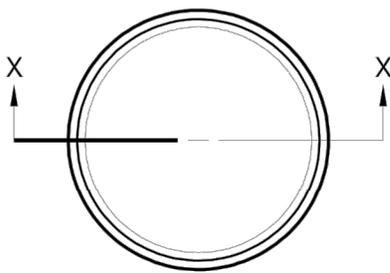
ST-19

SHEET 2 OF 4

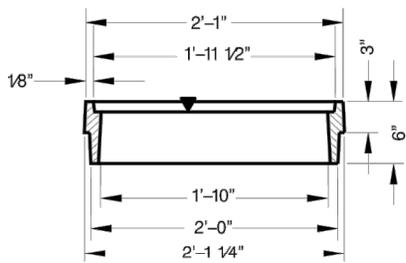
NOT DRAWN TO SCALE

PLAN OF REINFORCING IN TOP  
NOT TO SCALE

▼ MACHINED BEARING SURFACE



FRAME TOP VIEW



FRAME SECTION "X - X"  
DETAILS OF C.I. COVER SEAT  
VULCAN V-1886 FRAME OR APPROVED EQUAL  
NOT TO SCALE



CITY OF SHREVEPORT  
STANDARD PLANS

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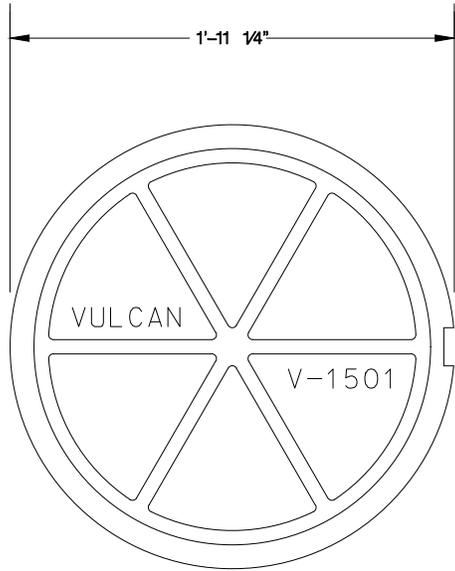
TYPICAL JUNCTION BOX WITH SOLID  
OR GRATE COVER

OCTOBER 2021

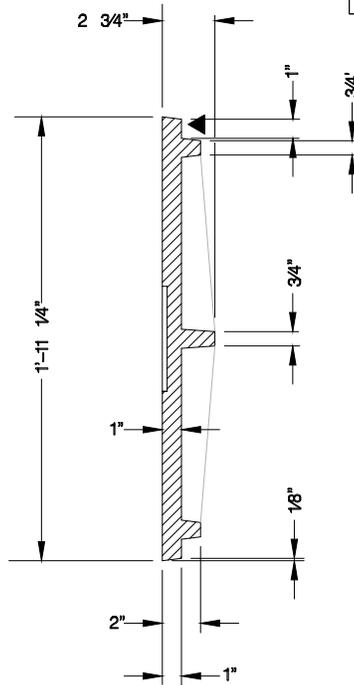
**PRELIMINARY - NOT  
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

NOT DRAWN TO SCALE



COVER BACK

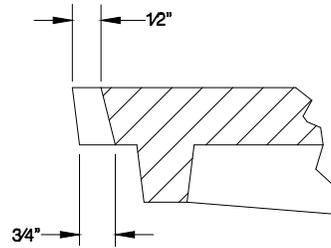


COVER SECTION



COVER FACE

(2) TYPE ONE PICKHOLES



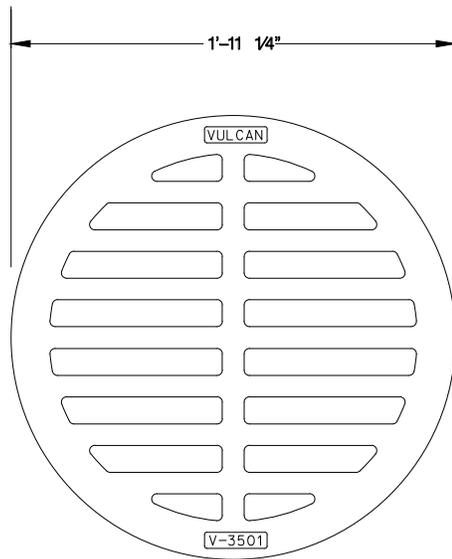
PICKHOLE DET.

DETAILS OF C.I. COVER  
 VULCAN V-1501 COVER OR APPROVED EQUAL  
 NOT TO SCALE

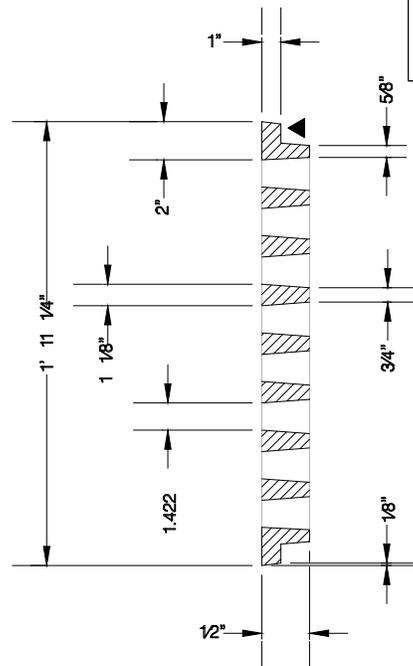


CITY OF SHREVEPORT  
 STANDARD PLANS  
 TYPICAL JUNCTION BOX WITH  
 SOLID OR GRATE COVER  
 OCTOBER 2021

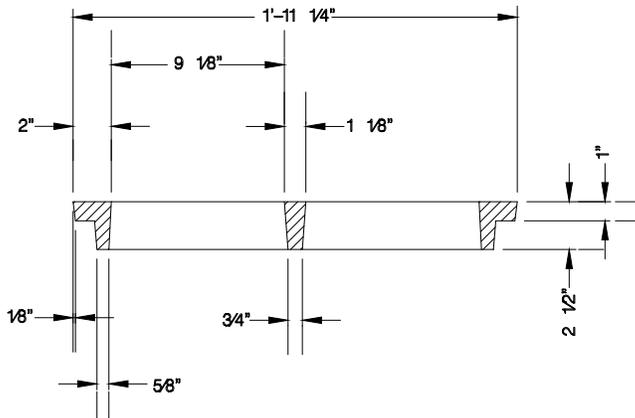
**PRELIMINARY - NOT FOR CONSTRUCTION**  
 PATRICK FURLONG LA LICENSE NUMBER 35185



GRATE TOP VIEW



GRATE SECTION



GRATE SECTION

L.D.H.-H20-44  
 C.I. GRATE TYPE COVER  
 NOTE : TO BE USED ONLY WHEN CALLED FOR ON PLANS

DETAILS OF C.I. GRATE  
 VULCAN V-3501 GRATE OR APPROVED EQUAL  
 NOT TO SCALE

NOTE:  
 CASTING SHALL BE UNCOATED



CITY OF SHREVEPORT  
 STANDARD PLANS  
 TYPICAL JUNCTION BOX WITH  
 SOLID OR GRATE COVER  
 OCTOBER 2021

**PRELIMINARY - NOT FOR CONSTRUCTION**  
 PATRICK FURLONG LA LICENSE NUMBER 35185

## GENERAL NOTES

## ● MATERIALS LIST :

- ① PRIMARY MATERIAL TO BE CONCRETE, CAST IN PLACE 4" THICK, STRUCTURAL CLASS A 3800 P.S.I.
- ② ALL PANEL JOINTS TO HAVE WOOD FILLER, DOWELLED WITH 12" SMOOTH, DOWELS PAINTED AND GREASED OR THICKENED EDGE. DOWELS TO BE 18" LONG, PLACED 24" O.C. ALL REPLACED SECTIONS (WALLS AND BOTTOM) TO BE MONOLITHIC WITH #4 MINIMUM DEFORMED BARS 36" LONG IN TOE. DOWELS TO BE PLACED 18" O.C. AND TIED TO WELDED WIRE FABRIC.
- ③ REINFORCING TO BE WELDED WIRE FABRIC 4X4 - W1.4 X W1.4 (MIN.)
- ④ WEEP HOLES TO BE PLACED 6' FROM JOINT AND 4" ABOVE THE TOE. MUST HAVE 1 CU.FT. GRAVEL BAGGED FILTER CLOTH AND VENTED THROUGH 2" P.V.C. PIPE. END OF PIPE TO BE COVERED WITH 1/4" MESH GALVANIZED WIRE FABRIC.

## ● SCOPE OF WORK :

- ① REMOVE FAILED WALLS AND BOTTOM. CLEAN ACCUMULATED SPOIL AND DEBRIS FROM WORK AREA. SQUARE SLIPPED AREA IF APPLICABLE. (SEE TYPICAL REPAIR DETAIL).
- ② RESTORE GRADE USING LOCAL FILL WITH IMPORTED FILL AS REQUIRED. INSTALL IN 6" LIFTS AND COMPACT TO AT LEAST 95% OF MAXIMUM DRY DENSITY (STANDARD EFFORT)
- ③ CONCRETE (CAST IN PLACE).
- ④ DRESS AND SOD AREA, SOD ON SLOPES TO BE PEGGED WITH 12" WOOD STAKES (TWO EACH PER SOD PANEL).



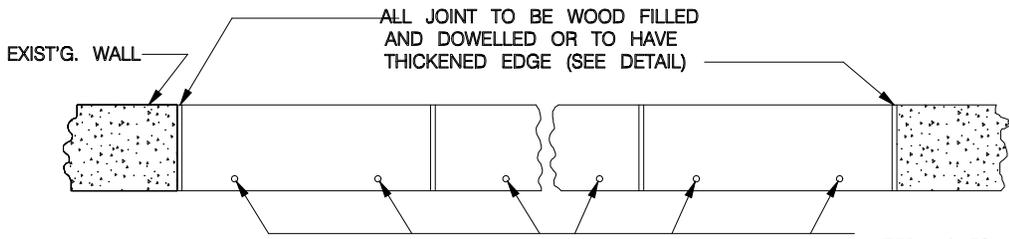
CITY OF SHREVEPORT  
STANDARD PLANS

TYPICAL DITCH REPAIR

OCTOBER 2021

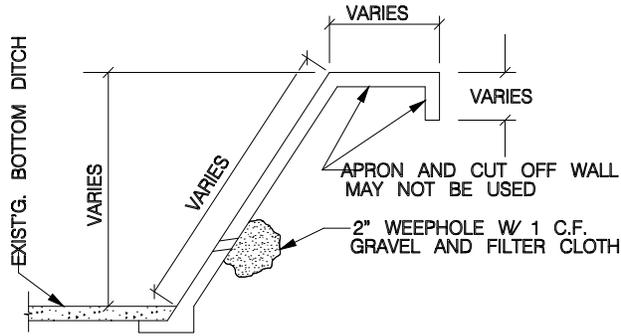
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FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

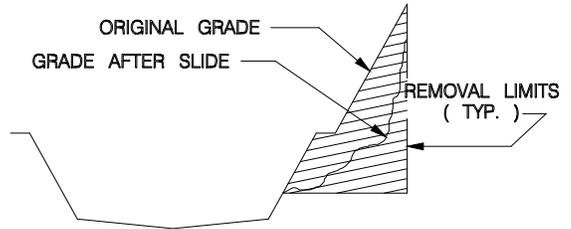


PLAN VIEW

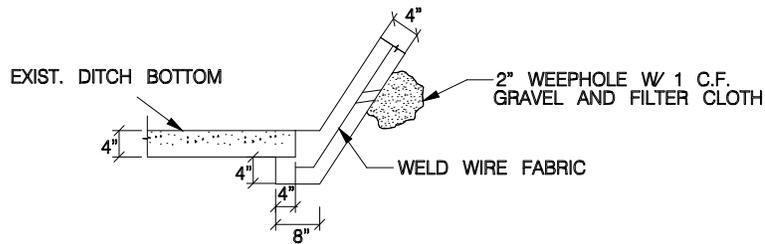
WEEP HOLES WITH 1 C.F. GRAVEL- 4" ABOVE TOE AT BOTTOM OF DITCH



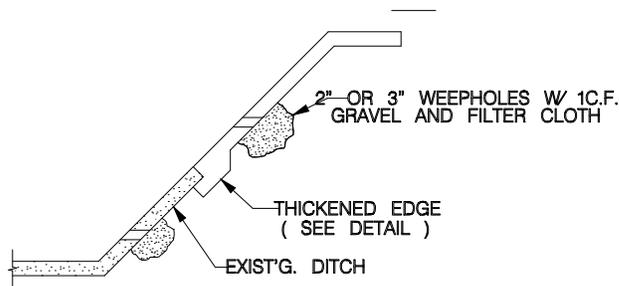
TYPICAL REPAIR DITCH WALL



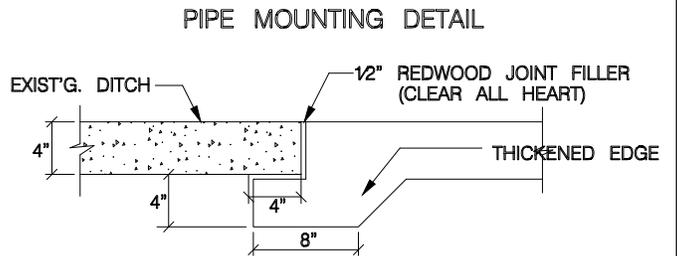
TYPICAL REPAIR SOIL SLIPAREA



THICKENED EDGE DETAIL AT TOE



TYPICAL WALL EXTENSION



THICKENED EDGE DETAIL



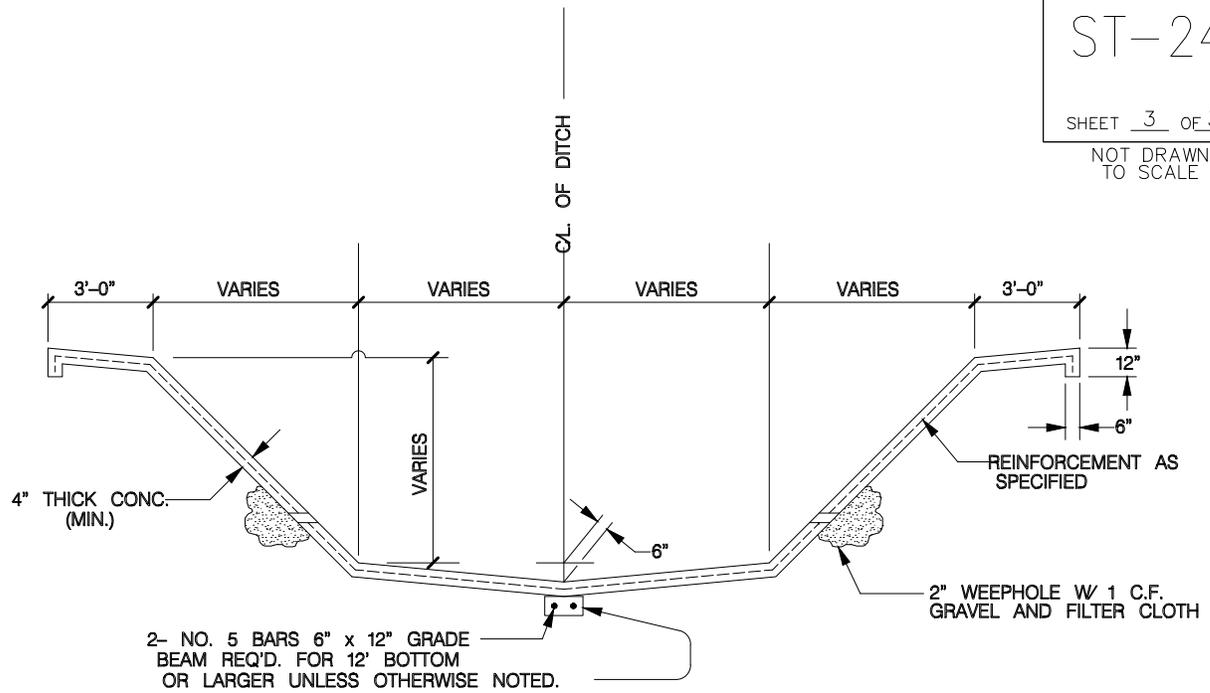
CITY OF SHREVEPORT  
 STANDARD PLANS

TYPICAL DITCH REPAIR

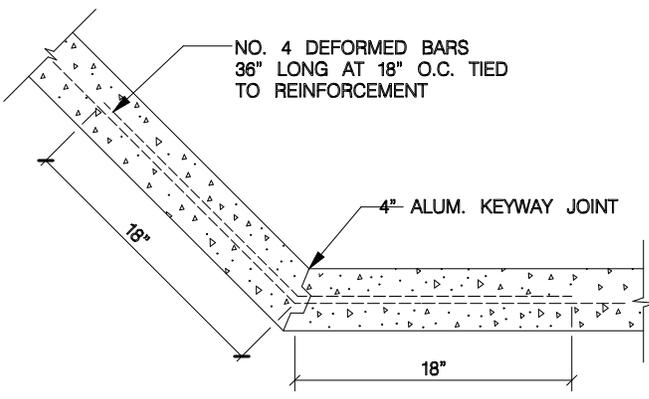
OCTOBER 2021

**PRELIMINARY - NOT FOR CONSTRUCTION**

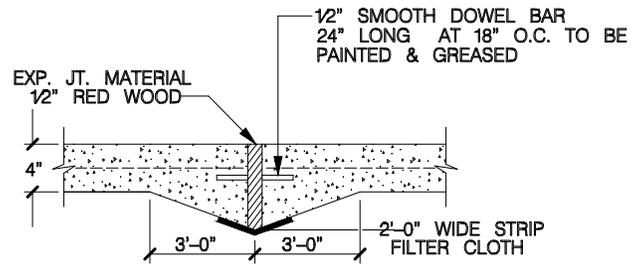
PATRICK FURLONG LA LICENSE NUMBER 35185



**TYPICAL CONC. DITCH SECTION**  
 NOT TO SCALE



**CONSTRUCTION JOINT DETAIL**  
 NOT TO SCALE



**EXPANSION JOINT DETAIL**  
 NOT TO SCALE



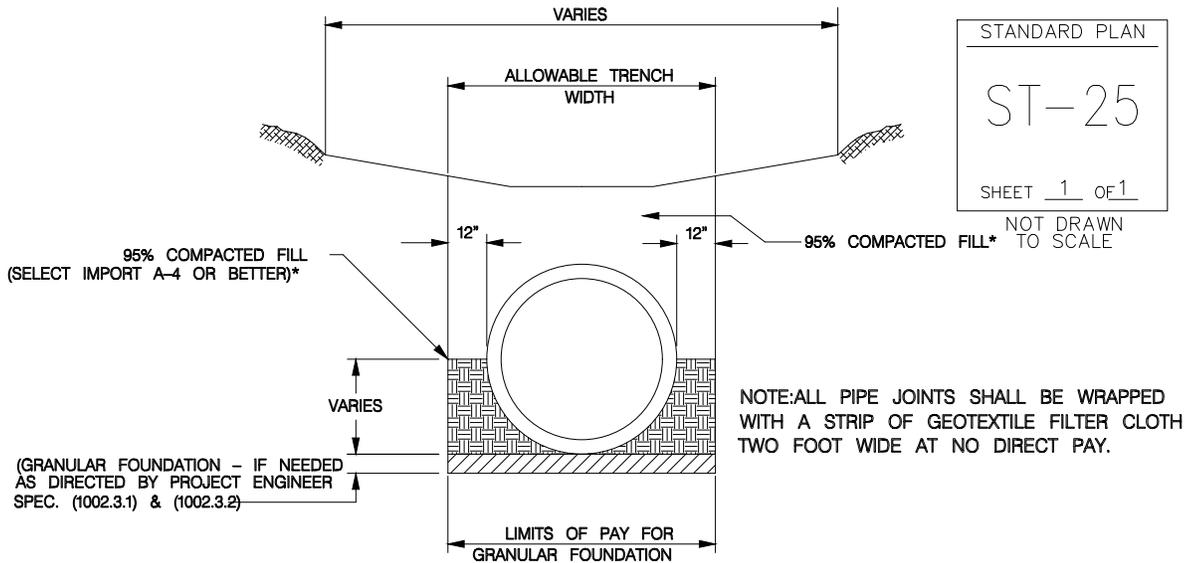
**CITY OF SHREVEPORT**  
**STANDARD PLANS**

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**TYPICAL DITCH REPAIR**

OCTOBER 2021

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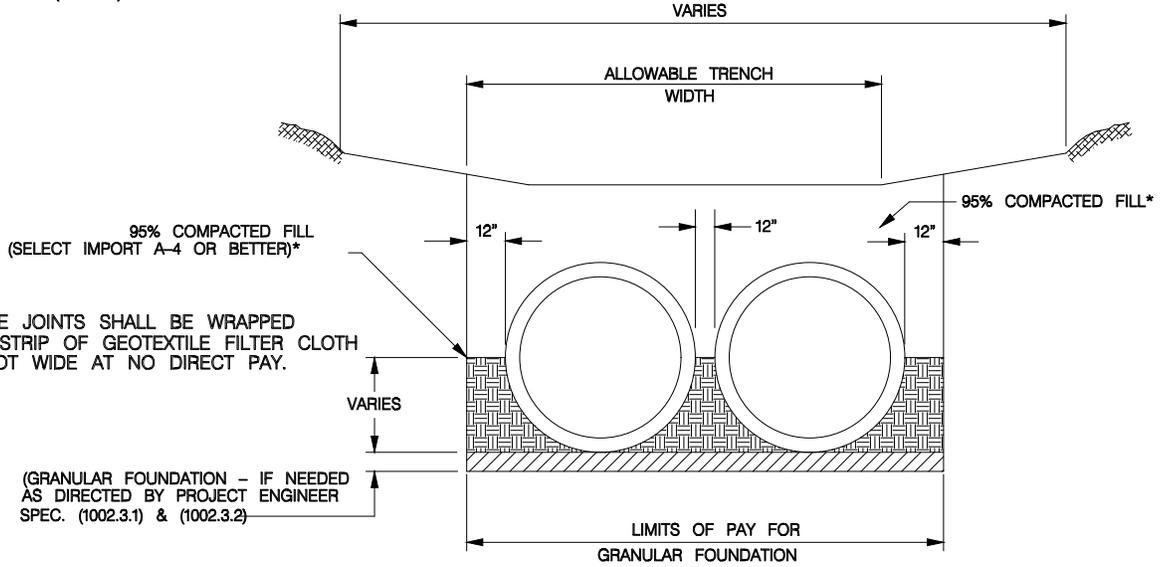


\*USE EXCAVATED TRENCH MATERIAL. IF TRENCH MATERIAL IS DEEMED UNSUITABLE BY PROJECT ENGINEER, THE CONTRACTOR WILL FURNISH SELECT MATERIAL FOR BACKFILL.

**TYPICAL PIPE BEDDING (SINGLE PIPE)**

NOT TO SCALE

NOTE : PAY ITEM 1001(1) - PIPE LINE IN PLACE SHALL INCLUDE ALL NECESSARY TRENCH EXCAVATION, THE REMOVAL, HANDLING, BACKFILLING, AND DISPOSAL OF ANY SURPLUS OR UNSUITABLE MATERIAL ENCOUNTERED IN THE WORK AREA AND SHALL INCLUDE ALL PUMPING, BAILING, DRAINAGE AND SHEETING AND BRACING. IT SHALL ALSO INCLUDE SELECT PIPE BACKFILL, IF NEEDED (SEE \*).



\*USE EXCAVATED TRENCH MATERIAL. IF TRENCH MATERIAL IS DEEMED UNSUITABLE BY PROJECT ENGINEER, THE CONTRACTOR WILL FURNISH SELECT MATERIAL FOR BACKFILL. NOTE: CONSULT THE MANUFACTURER FOR BEDDING RECOMMENDATIONS FOR OTHER PIPE TYPES

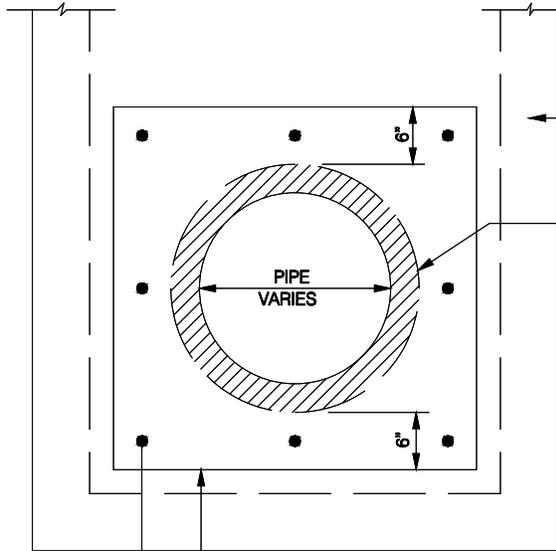
**TYPICAL PIPE BEDDING (DOUBLE PIPE)**

NOT TO SCALE



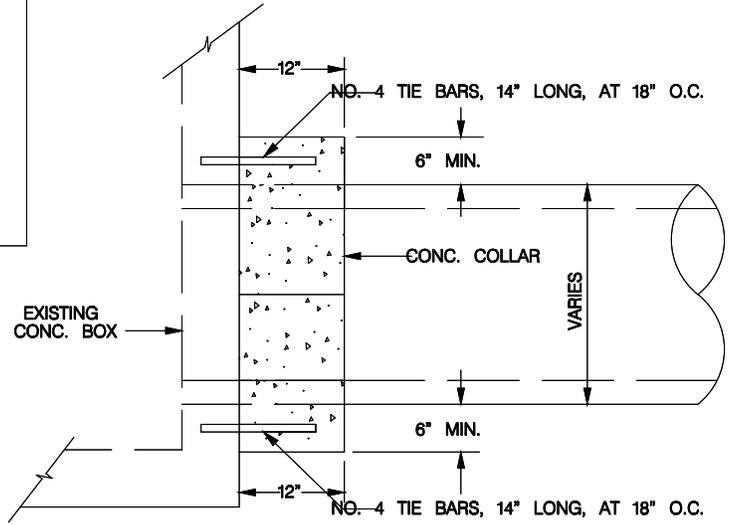
CITY OF SHREVEPORT  
 STANDARD PLANS  
 TYPICAL R.C.P. BEDDING AND  
 EMBANKMENT INSTALLATION  
 OCTOBER 2021

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 PATRICK FURLONG LA LICENSE NUMBER 35185



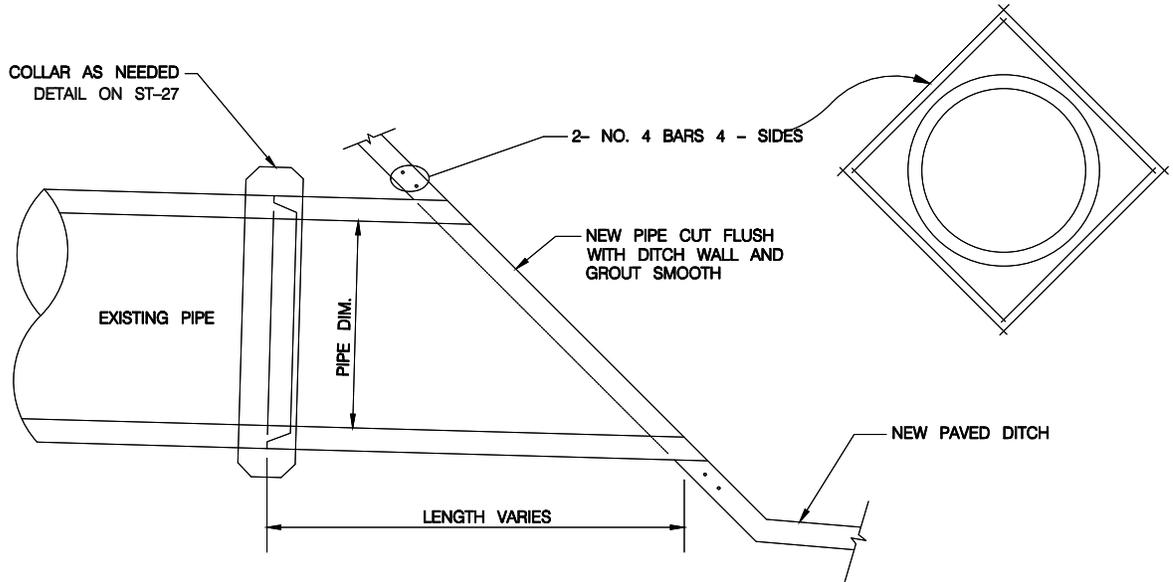
REQD. CONC. COLLAR  
 REQD. NO. 4 TIE BARS  
 14" LONG, AT 18" O.C.

**FRONT VIEW**



**SIDE VIEW**

**TIE IN PIPE TO EXISTING BOX**  
 NOT TO SCALE



**CITY OF SHREVEPORT  
 STANDARD PLANS**  


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**PIPE TIE IN TO EXISTING BOX AND  
 DITCH WALL**  
 OCTOBER 2021

**PRELIMINARY - NOT  
 FOR CONSTRUCTION**  
 PATRICK FURLONG LA LICENSE NUMBER 35185

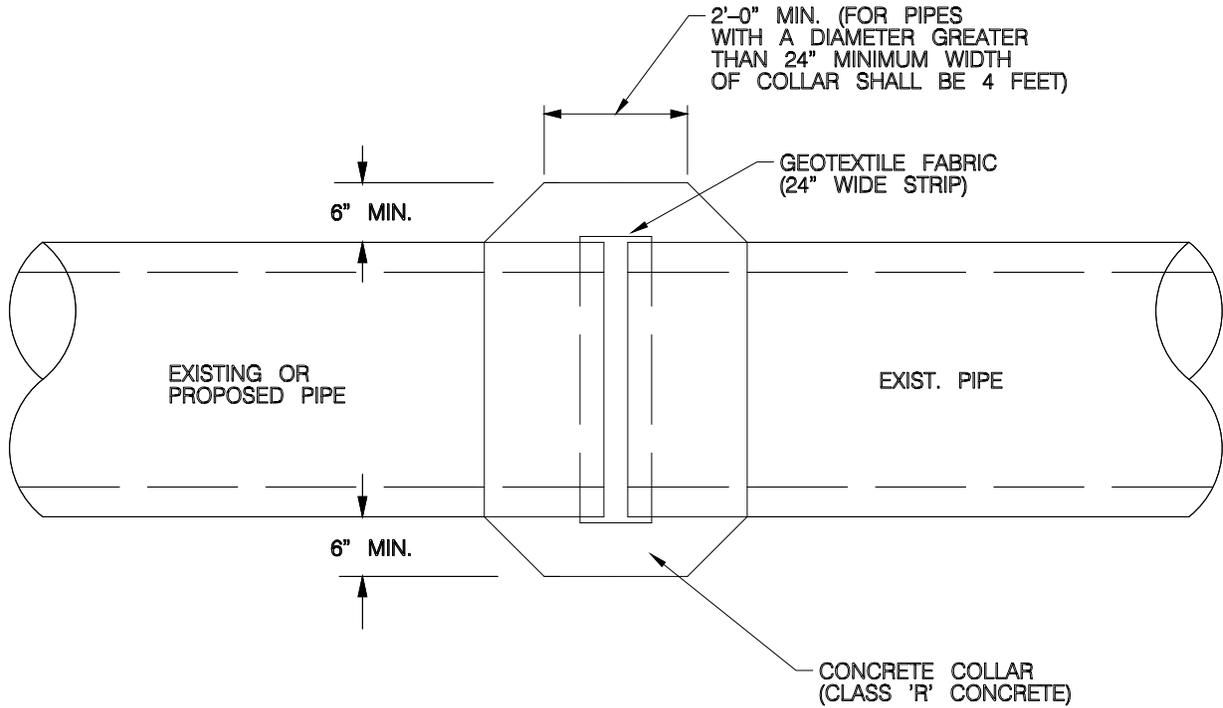
TO REPAIR EXISTING PIPE JOINT SEPARATION  
AND/OR TO CONNECT EXISTING PIPE TO NEW PIPE

STANDARD PLAN

ST-27

SHEET 1 OF 1

NOT DRAWN  
TO SCALE



NOTES:

1. NEW PIPE EXTENSION SHALL MATCH EXISTING PIPE IN MATERIAL TYPE AND SIZE BASED ON THE LATEST INDUSTRY STANDARDS.
2. WRAP PIPE JOINTS WITH GEOTEXTILE FABRIC (CLASS 'A', 'B', 'C', OR 'D'. SEE SECTION 211 OF CITY OF SHREVEPORT STANDARD SPECIFICATIONS.
3. INCLUDE COST OF COLLARS IN PIPE REPLACEMENT.



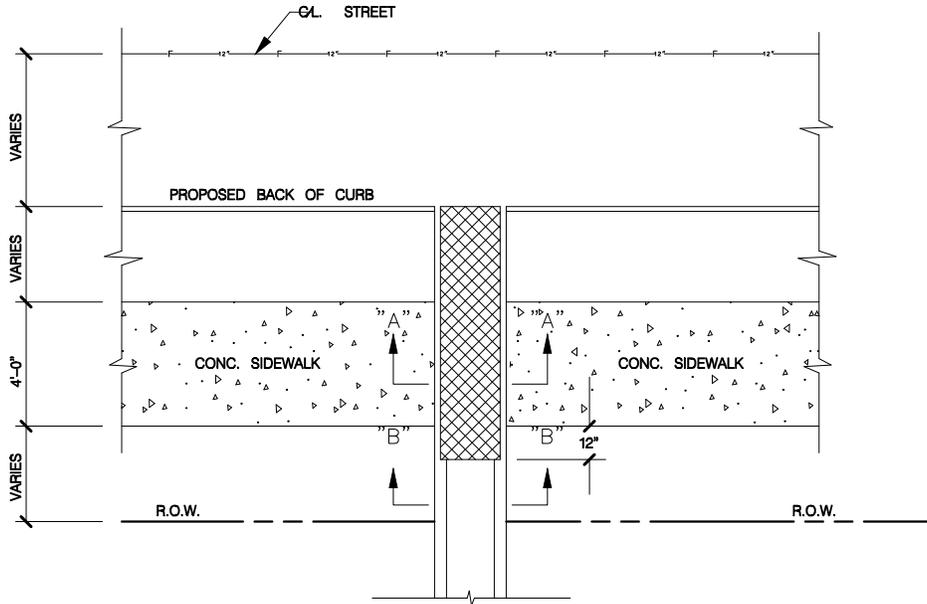
CITY OF SHREVEPORT  
STANDARD PLANS

CONCRETE COLLAR DETAIL

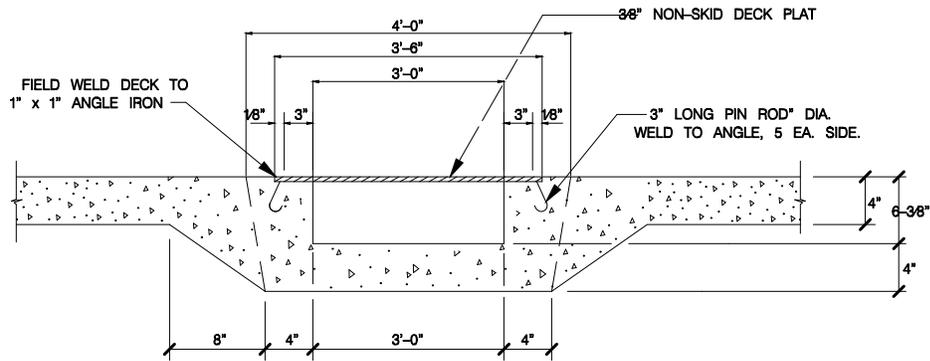
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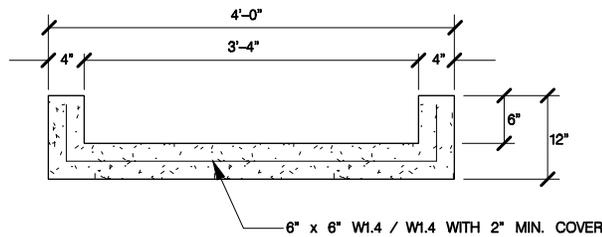


PLAN  
NOT TO SCALE



SECTION " A - A "

NOT TO SCALE



SECTION " B - B "

NOT TO SCALE



CITY OF SHREVEPORT  
STANDARD PLANS

SIDEWALK FLUME  
DETAIL

OCTOBER 2021

PRELIMINARY - NOT  
FOR CONSTRUCTION

PATRICK FURLONG LA LICENSE NUMBER 35185