

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.

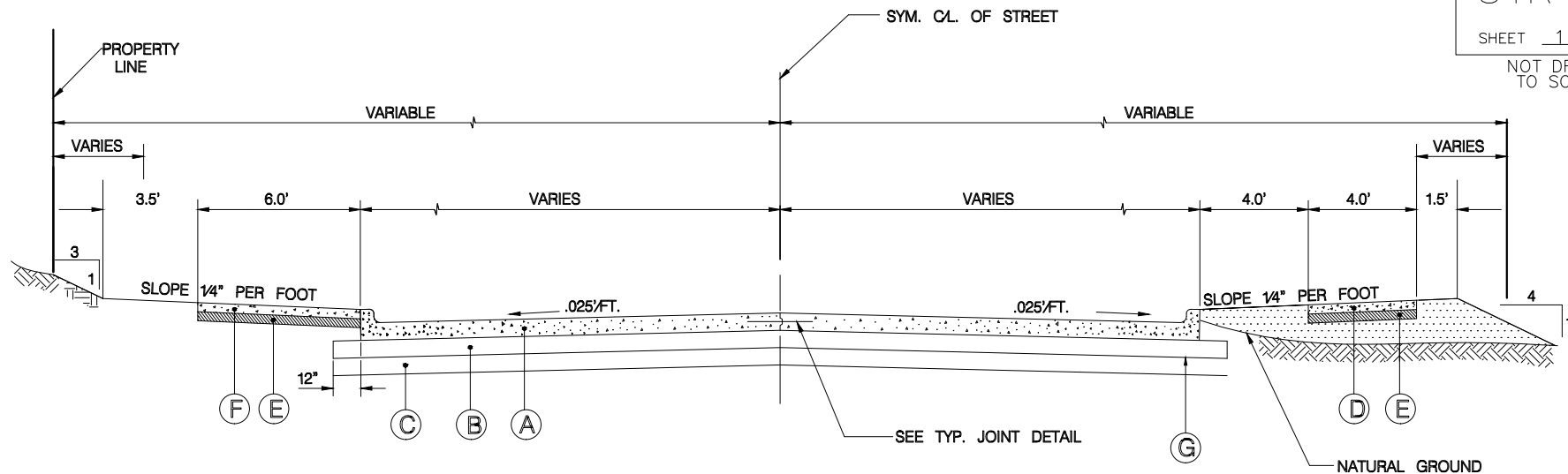
Engineers shall confirm applicability of City's details with the specific project or situation. If any changes and/or alternative documents to the City's standards are proposed, then they shall be submitted to the City for review. Submittals shall clearly indicate the City document being submitted for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

TABLE OF CONTENTS

PART I: STREET PAVING & IMPROVEMENTS

DETAIL NAME	STANDARD PLAN NO.
TYPICAL CONCRETE PAVING SECTION DETAIL.....	STR-01
TYPICAL ASPHALT PAVING SECTION DETAIL	STR-02
NOT USED	STR-03
TYPICAL JOINT DETAIL (1 OF 6).....	STR-04
TRANSVERSE EXPANSION JOINT DETAIL (2 OF 6).....	STR-05
TRANSVERSE EXPANSION JOINT DETAIL (3 OF 6).....	STR-06
TRANSVERSE DUMMY JOINT OR CONSTRUCTION JOINT (TYPE T) (4 OF 6)	STR-07
LONGITUDINAL JOINT TYPE L-2 (5 OF 6)	STR-08
LONGITUDINAL JOINT TYPE L-1 (6 OF 6)	STR-09
PAVEMENT PATCH (1 OF 2)	STR-10
TYPICAL PAVEMENT REPAIR (2 OF 2)	STR-11
JOINT REPAIR DETAIL	STR-12
3 FT. CURB AND GUTTER.....	STR-13
PEDESTRIAN FACILITIES (1 OF 6)	PED-01
PEDESTRIAN FACILITIES (2 OF 6)	PED-01
PEDESTRIAN FACILITIES (3 OF 6)	PED-01
PEDESTRIAN FACILITIES (4 OF 6)	PED-01
PEDESTRIAN FACILITIES (5 OF 6)	PED-01
PEDESTRIAN FACILITIES (6 OF 6)	PED-01



TYPICAL MINIMUM SECTION

NOT TO SCALE

LEGEND

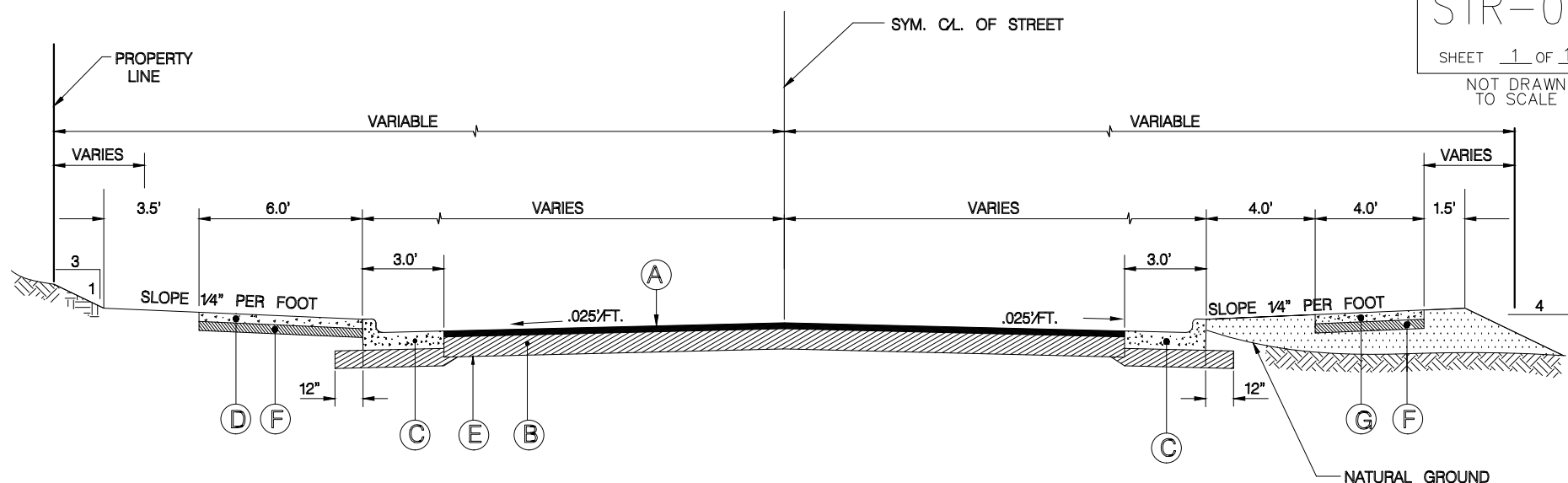
- (A) PORTLAND CEMENT CONCRETE-THICKNESS SHALL BE DETERMINED BY GEOTECHNICAL TESTING, EVALUATION AND REPORT. 8" MINIMUM.
- (B) CRUSHED AGGREGATE BASE - THICKNESS SHALL BE DETERMINED BY GEOTECHNICAL TESTING, EVALUATION AND REPORT. 8" MINIMUM, COMPACTED TO AT LEAST 95% DENSITY (STANDARD EFFORT).
- (C) 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 PLANSTYPICAL CONCRETE PAVING SECTION
DETAIL

OCTOBER 2021

PRELIMINARY - NOT
FOR CONSTRUCTION

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

TYPICAL ASPHALT PAVING SECTION
DETAIL

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

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 T/8. (EXAMPLE 10" THICK PAVEMENT = 10/8 = 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

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

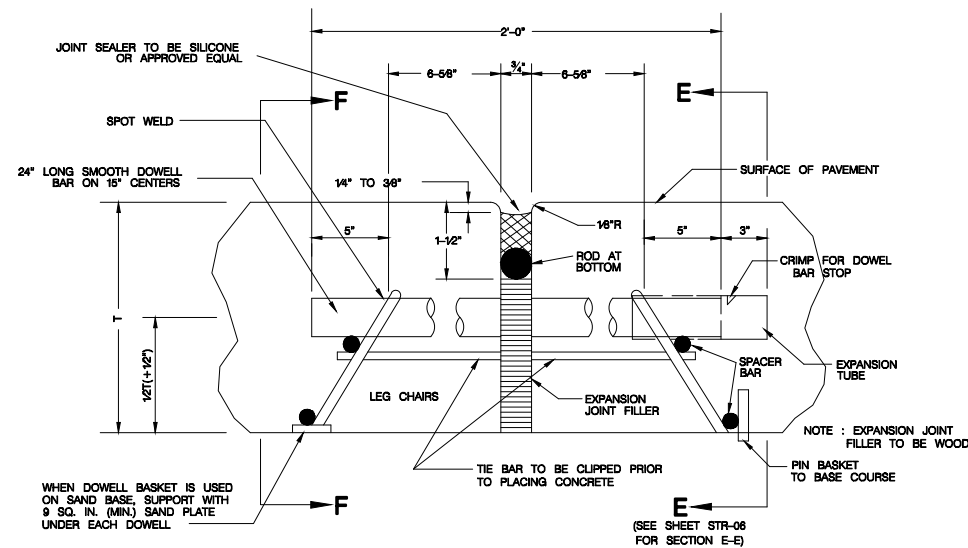
PATRICK FURLONG LA LICENSE NUMBER 35185

STANDARD PLAN

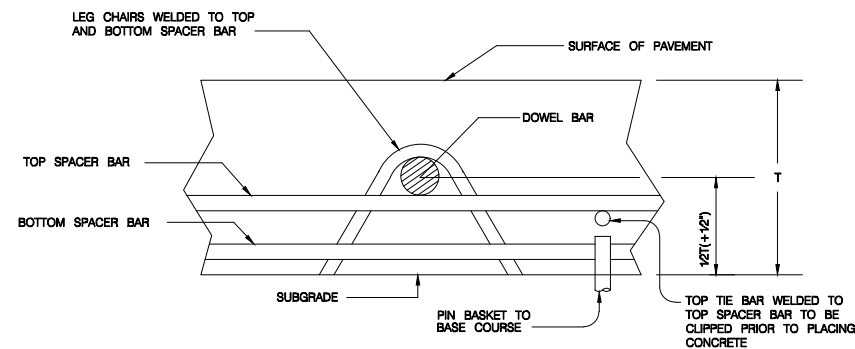
STR-05

SHEET 2 OF 6

NOT DRAWN
TO SCALE



TRANSVERSE EXPANSION JOINT
(TYPE E)



SECTION F - F



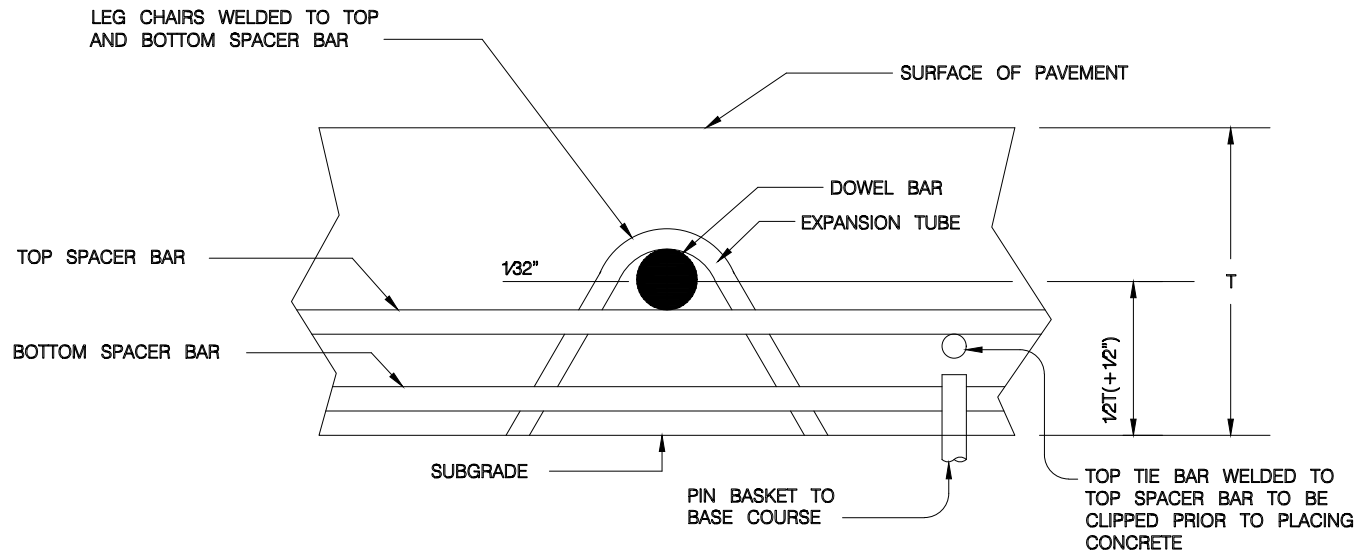
CITY OF SHREVEPORT
STANDARD PLANS

TRANSVERSE EXPANSION JOINT DETAIL

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185



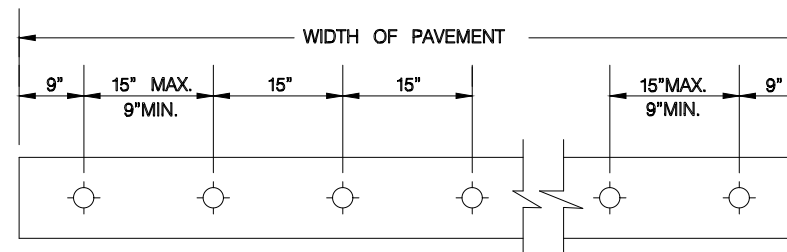
STANDARD PLAN

STR-06

SHEET 3 OF 6

NOT DRAWN TO SCALE

SECTION E - E



DOWEL BAR SPACING FOR TRANSVERSE JOINTS



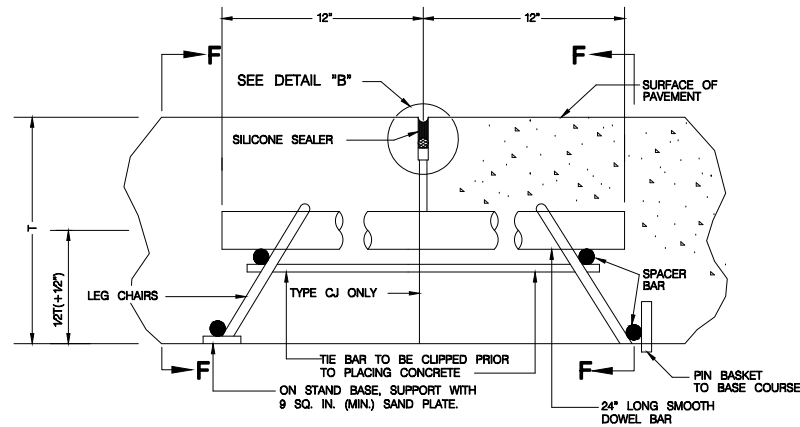
CITY OF SHREVEPORT
STANDARD PLANS

TRANSVERSE EXPANSION JOINT DETAIL

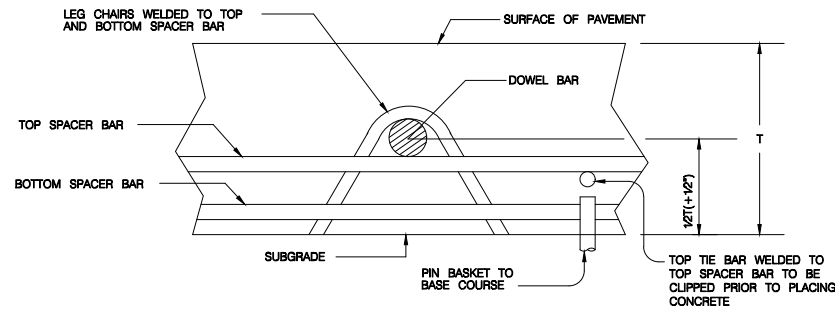
OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

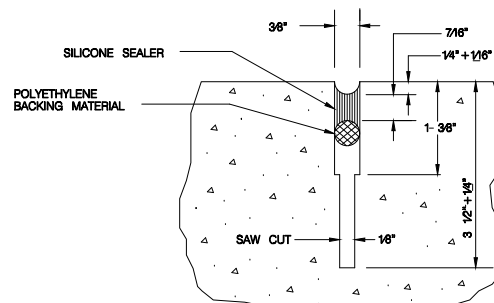
PATRICK FURLONG LA LICENSE NUMBER 35185



TRANSVERSE DUMMY JOINT OR CONSTRUCTION JOINT (TYPE T)



SECTION F - F



DETAIL "B"

STANDARD PLAN

STR-07

SHEET 4 OF 6

NOT DRAWN
TO SCALE



CITY OF SHREVEPORT STANDARD PLANS

TRANSVERSE DUMMY JOINT OR CONSTRUCTION JOINT (TYPE T)

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

1 1/8" PREFORMED ELASTOMERIC SEALER

3/8"

1/4" TO 3/8"

1 3/4"

3 12" + 1/4"

1/8"

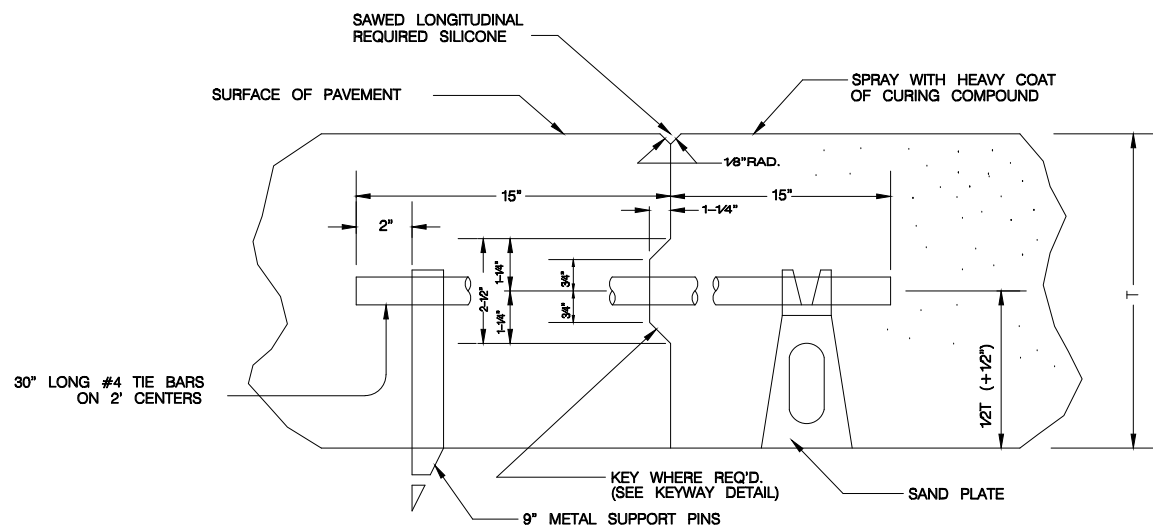
SAW CUT

STANDARD PLAN

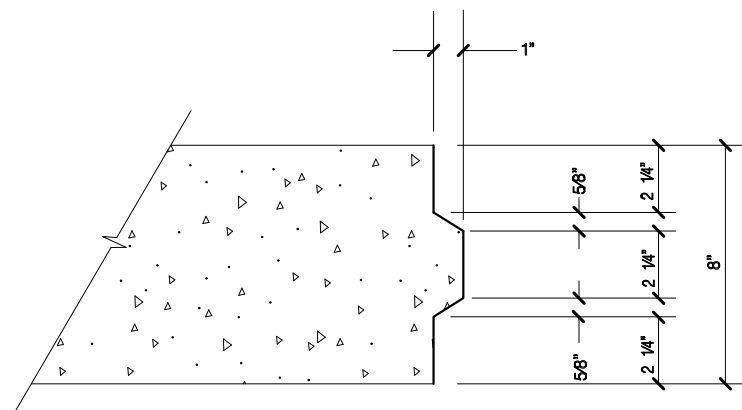
STR-09

SHEET 6 OF 6

NOT DRAWN
TO SCALE



LONGITUDINAL CONSTRUCTION JOINT
(TYPE L 1)



KEYWAY DETAIL
NOT TO SCALE



CITY OF SHREVEPORT
STANDARD PLANS

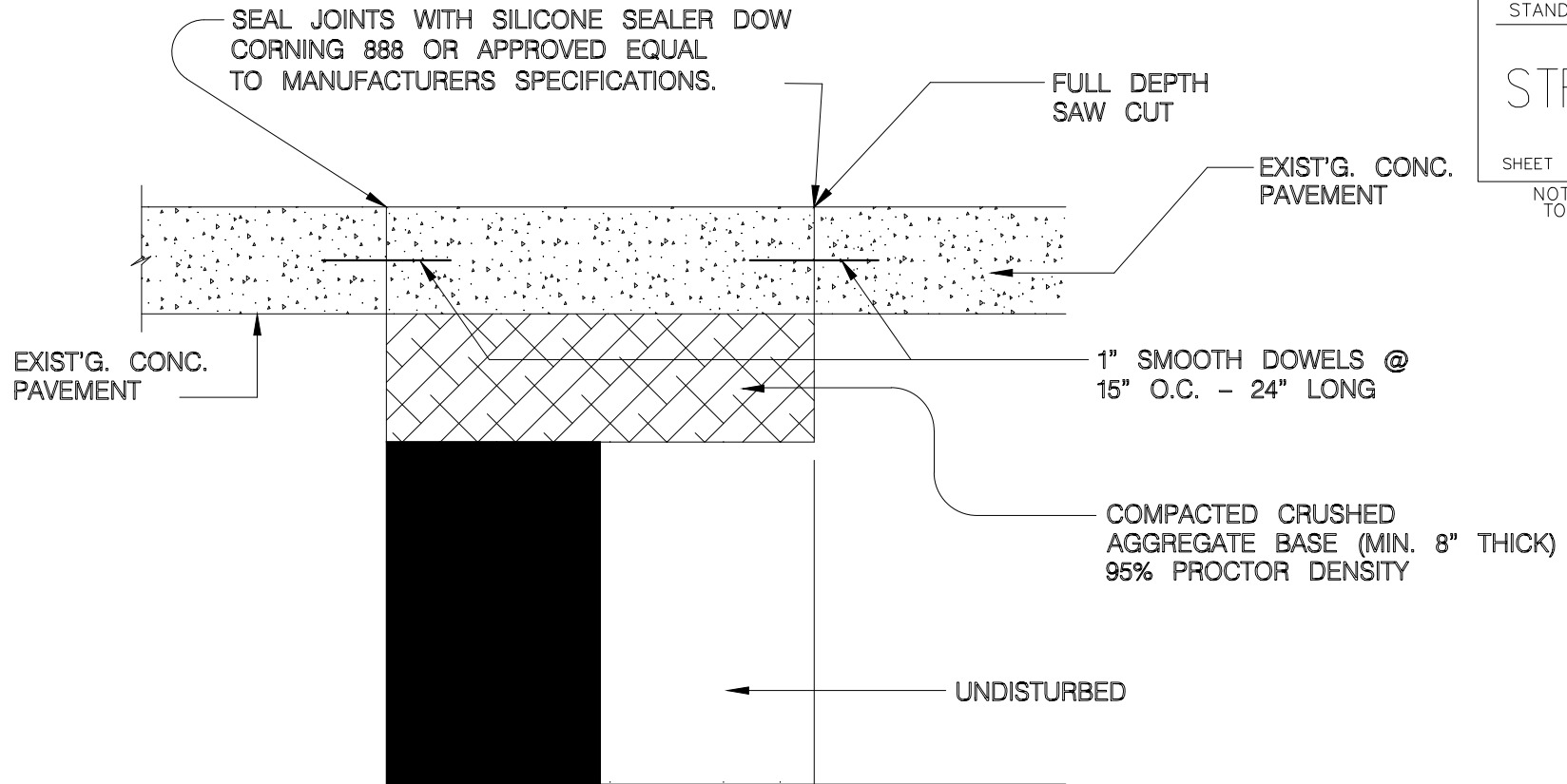
LONGITUDINAL JOINT TYPE L-1

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

PATRICK FURLONG LA LICENSE NUMBER 35185



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.



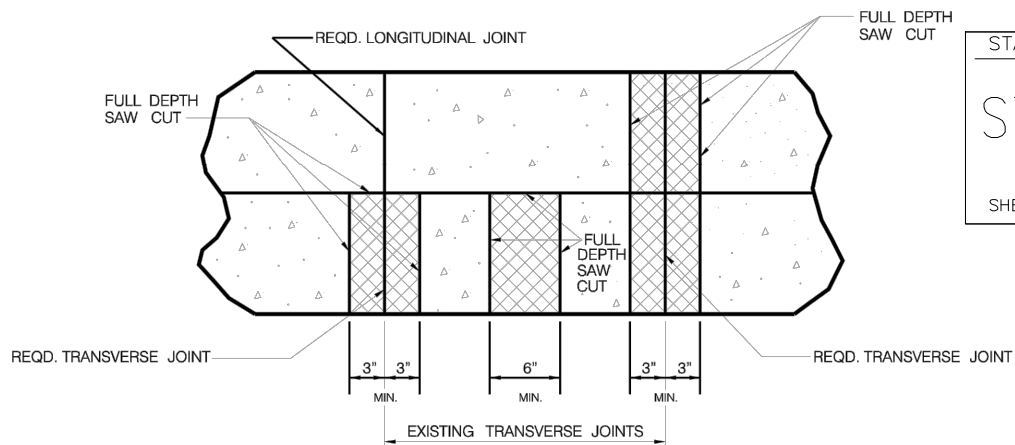
CITY OF SHREVEPORT
STANDARD PLANS

TYPICAL PAVEMENT REPAIR

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

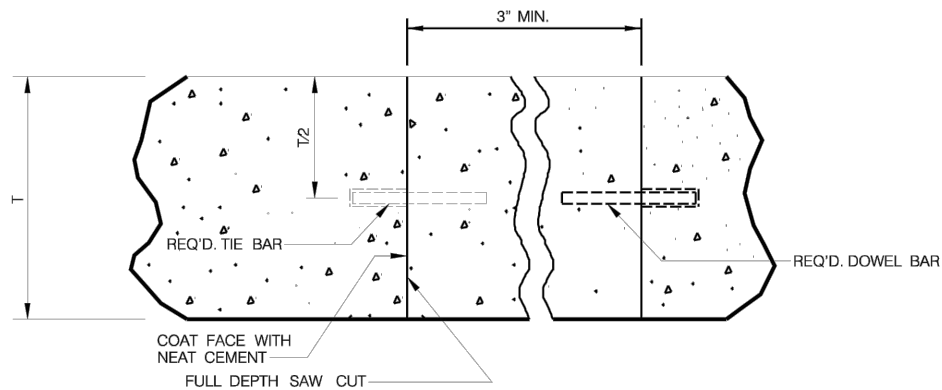


STANDARD PLAN

STR-12

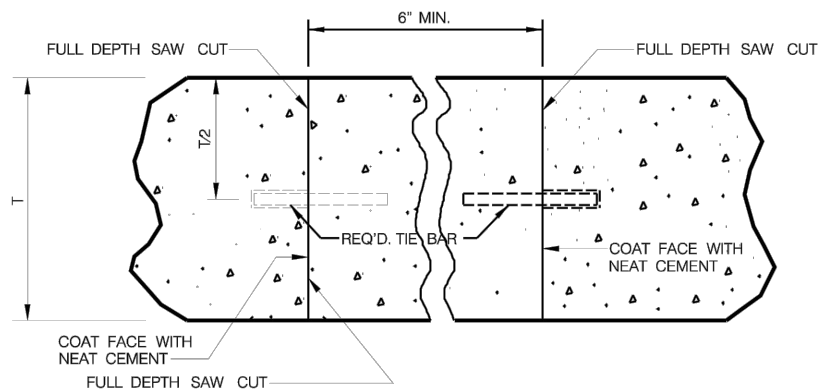
SHEET 1 OF 1

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.



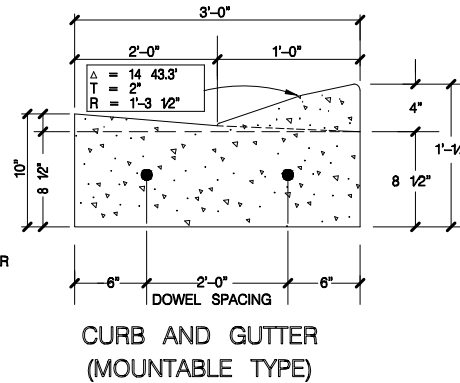
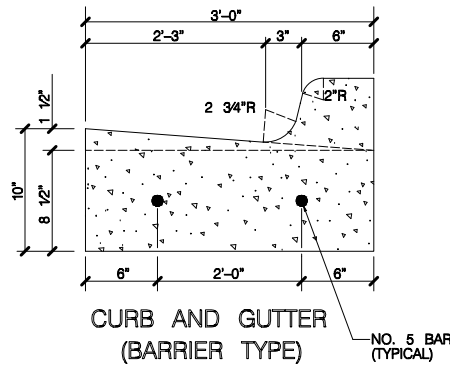
CITY OF SHREVEPORT
STANDARD PLANS

JOINT REPAIR DETAIL

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

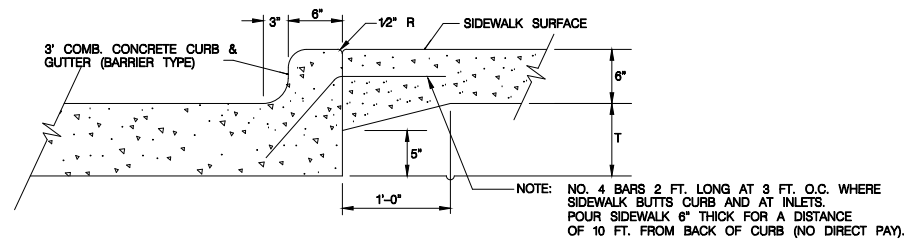
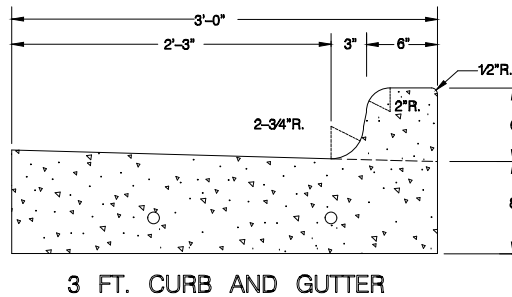


STANDARD PLAN

STR-13

SHEET 1 OF 1

NOT DRAWN
TO SCALE



SIDEWALK ABUTTING CURB



CITY OF SHREVEPORT
STANDARD PLANS

3 FT. CURB AND GUTTER

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

TABLE OF CONTENTS

PART II: DRAINAGE IMPROVEMENTS

DETAIL NAME	STANDARD PLAN NO.
CATCH BASIN AND 48" STANDARD INLET (PG 1 OF 5)	ST-01
CATCH BASIN AND 48" STANDARD INLET (PG 2 OF 5)	ST-02
CATCH BASIN AND 48" STANDARD INLET (PG 3 OF 5)	ST-03
CATCH BASIN AND 48" STANDARD INLET (PG 4 OF 5)	ST-04
CATCH BASIN AND 48" STANDARD INLET (PG 5 OF 5)	ST-05
GRATE INLET TYPE A (FOR ROADWAY USE ONLY)	ST-06
GRATE INLET TYPE A (FOR ROADWAY USE ONLY)	ST-07
GRATE INLET TYPE B (FOR OFF ROADWAY USE ONLY)	ST-08
GRATE INLET TYPE B (FOR OFF ROADWAY USE ONLY)	ST-09
NOT USED	ST-10
NOT USED	ST-11
NOT USED	ST-12
NOT USED	ST-13
NOT USED	ST-14
NOT USED	ST-15
SPECIAL INLET CANTILEVER THROAT	ST-16
SPECIAL INLET CANTILEVER THROAT	ST-17
TYPICAL JUNCITON BOX WITH SOLID OR GRATE COVER (1 OF 4)	ST-18
TYPICAL JUNCITON BOX WITH SOLID OR GRATE COVER (2 OF 4)	ST-19
TYPICAL JUNCITON BOX WITH SOLID OR GRATE COVER (3 OF 4)	ST-20
TYPICAL JUNCTION BOX WITH SOLID OR GRATE COVER (4 OF 4)	ST-21
TYPICAL DITCH REPAIR	ST-22
TYPICAL DITCH REPAIR	ST-23
TYPICAL DITCH REPAIR	ST-24
TYPICAL R.C.P. BEDDING AND EMBANKMENT INSTALLATION	ST-25
R.C.P. TIE IN TO EXISTING BOX AND DITCH WALL	ST-26
CONCRETE COLLAR DETAIL	ST-27
SIDEWALK FLUME DETAIL	ST-28

GENERAL NOTES

1. ALL CORNERS TO BE CHAMFERED $\frac{3}{4}$ ".
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

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

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

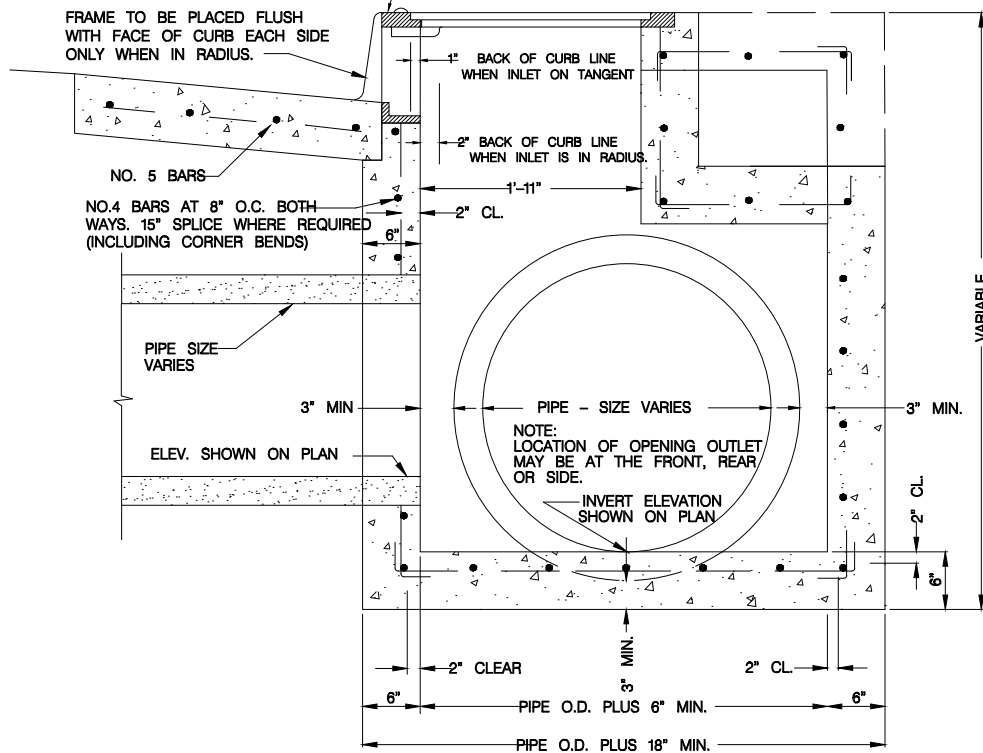
ALTERNATE:
VERTICAL WALL MAY BE FORMED STRAIGHT UP
TO GRATE ELEVATION OR OFFSET AND THEN
FORMED UP TO GRATE ELEVATION AS SHOWN.

STANDARD PLAN

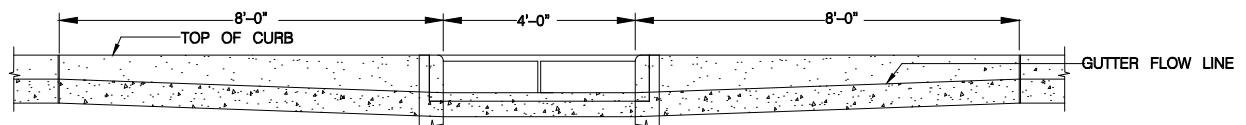
ST-02

SHEET 2 OF 5

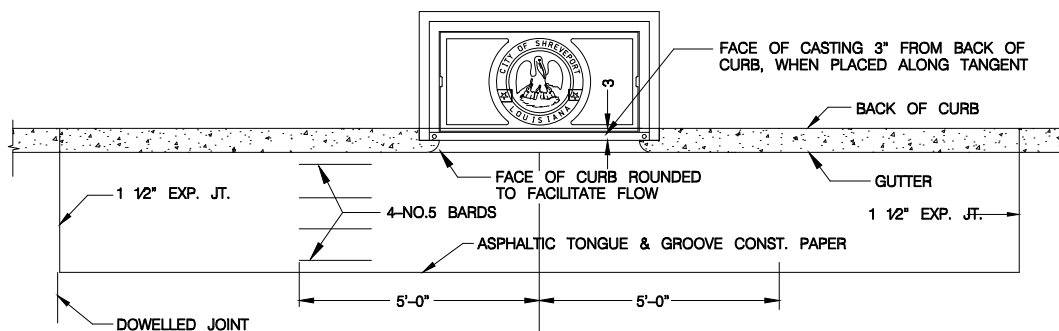
NOT DRAWN
TO SCALE



INLET SECTION B-B
NOT TO SCALE



ELEVATION
(SHOWING MANNER OF PLACING)
NOT TO SCALE



PLAN
NOT TO SCALE

NOTE:
CASTINGS SHALL BE UNCOATED.



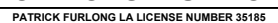
**CITY OF SHREVEPORT
STANDARD PLANS**

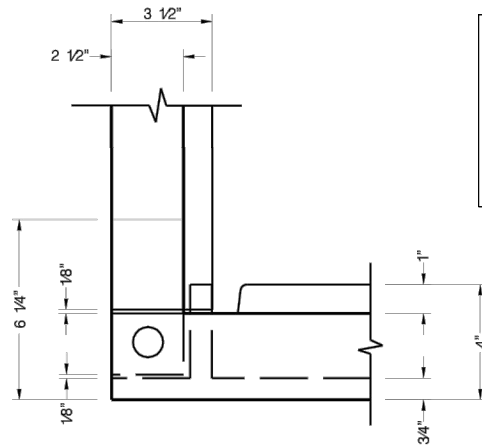
**CATCH BASIN AND
48" STANDARD INLET**

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185





STANDARD PLAN

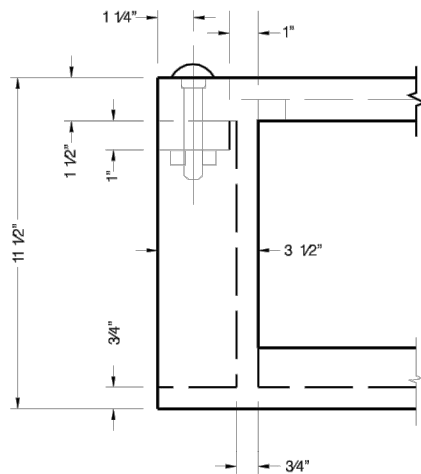
ST-04

SHEET 4 OF 5

NOT DRAWN
TO SCALE

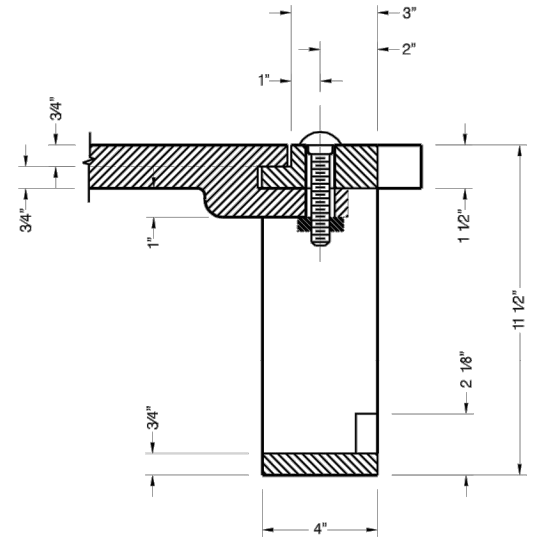
FRAME DETAIL - PLAN

NOT TO SCALE



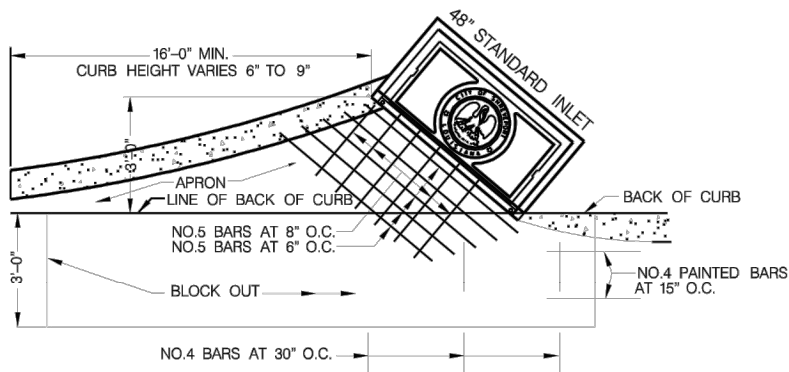
FRAME DETAIL - ELEVATION

NOT TO SCALE



FRAME DETAIL - SECTION

NOT TO SCALE



SKEWED INLET DETAIL

NOT TO SCALE



CITY OF SHREVEPORT

STANDARD PLANS

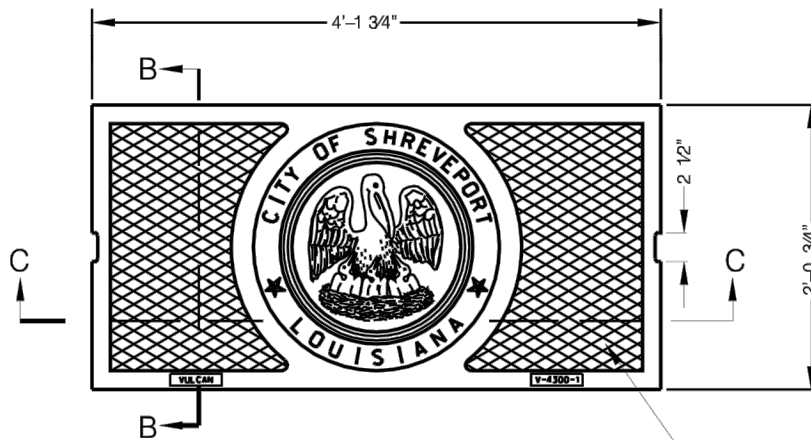
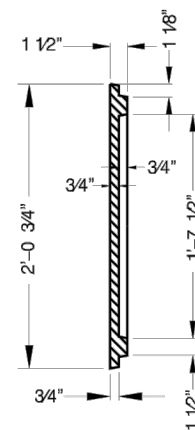
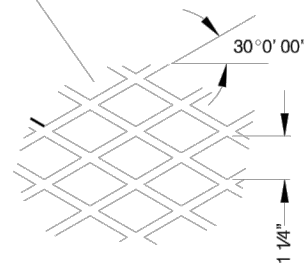
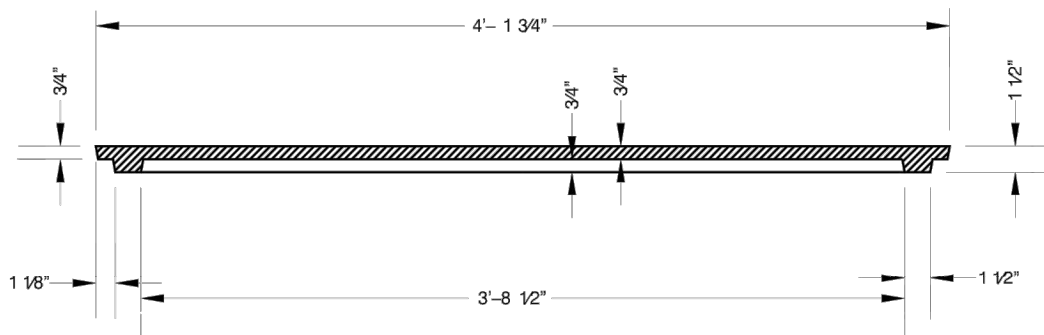
CATCH BASIN AND

48" STANDARD INLET

OCTOBER 2021

PRELIMINARY - NOT
FOR CONSTRUCTION

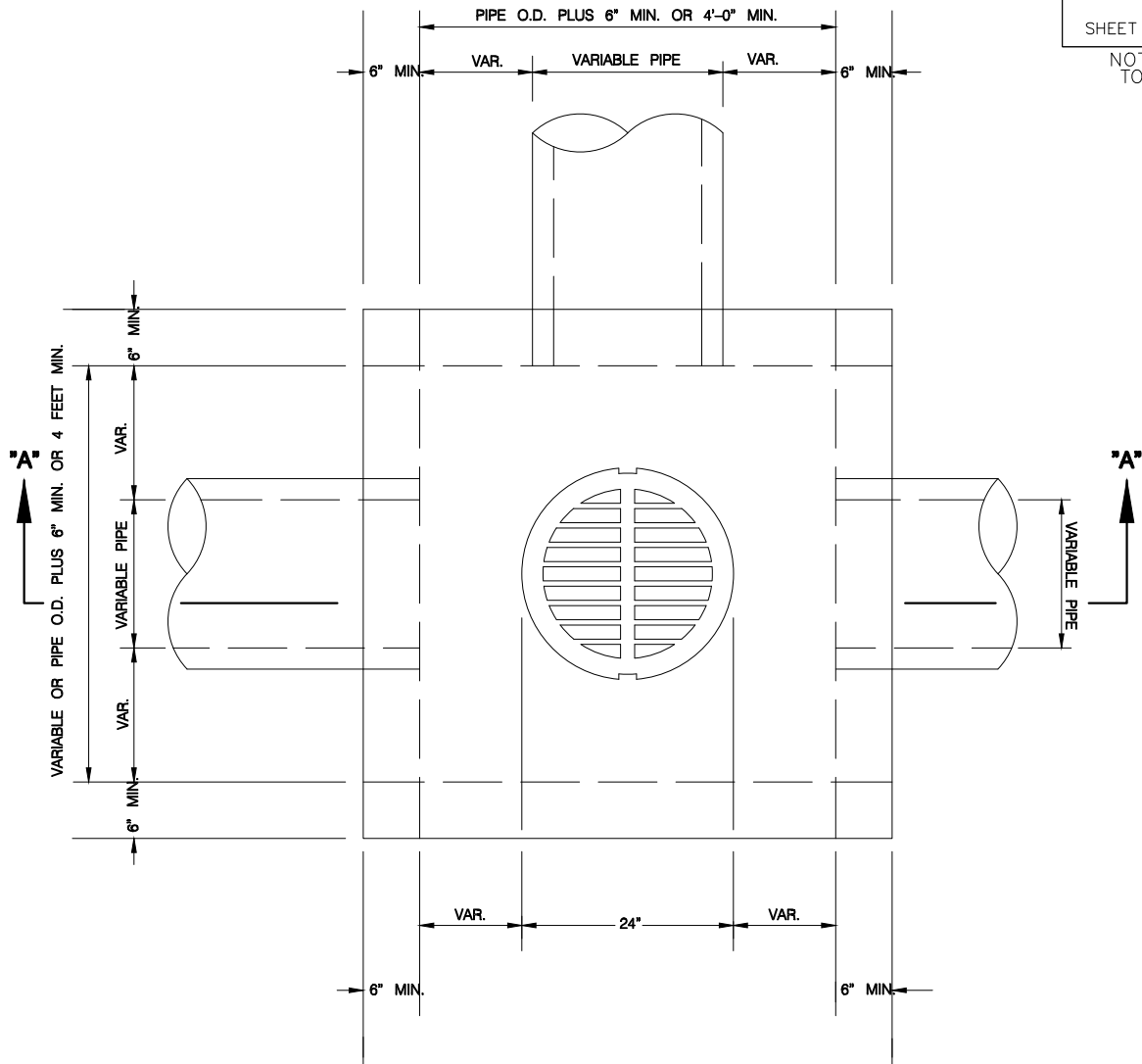
PATRICK FURLONG LA LICENSE NUMBER 35185

COVER TOP VIEW
NOT TO SCALECOVER SECTION B - B
NOT TO SCALETYPICAL PATTERN
NOT TO SCALECROSS SECTION C - C
NOT TO SCALECITY OF SHREVEPORT
STANDARD PLANSCATCH BASIN AND
48" STANDARD INLET

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

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"



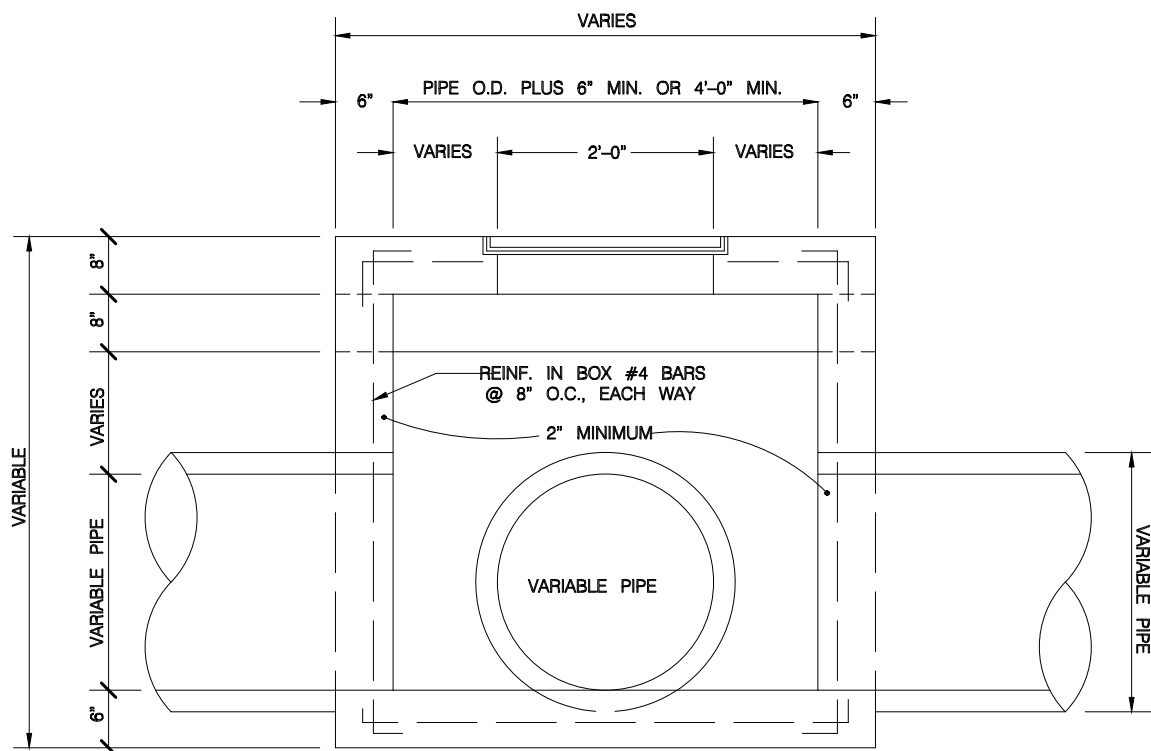
CITY OF SHREVEPORT
STANDARD PLANS

GRATE INLET TYPE A
(FOR ROADWAY USE ONLY)

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185



SECTION "A - A"

NOTES:

1. 15" SPLICE WHERE REQUIRED



CITY OF SHREVEPORT
STANDARD PLANS

GRATE INLET TYPE A
(FOR ROADWAY USE ONLY)

OCTOBER 2021

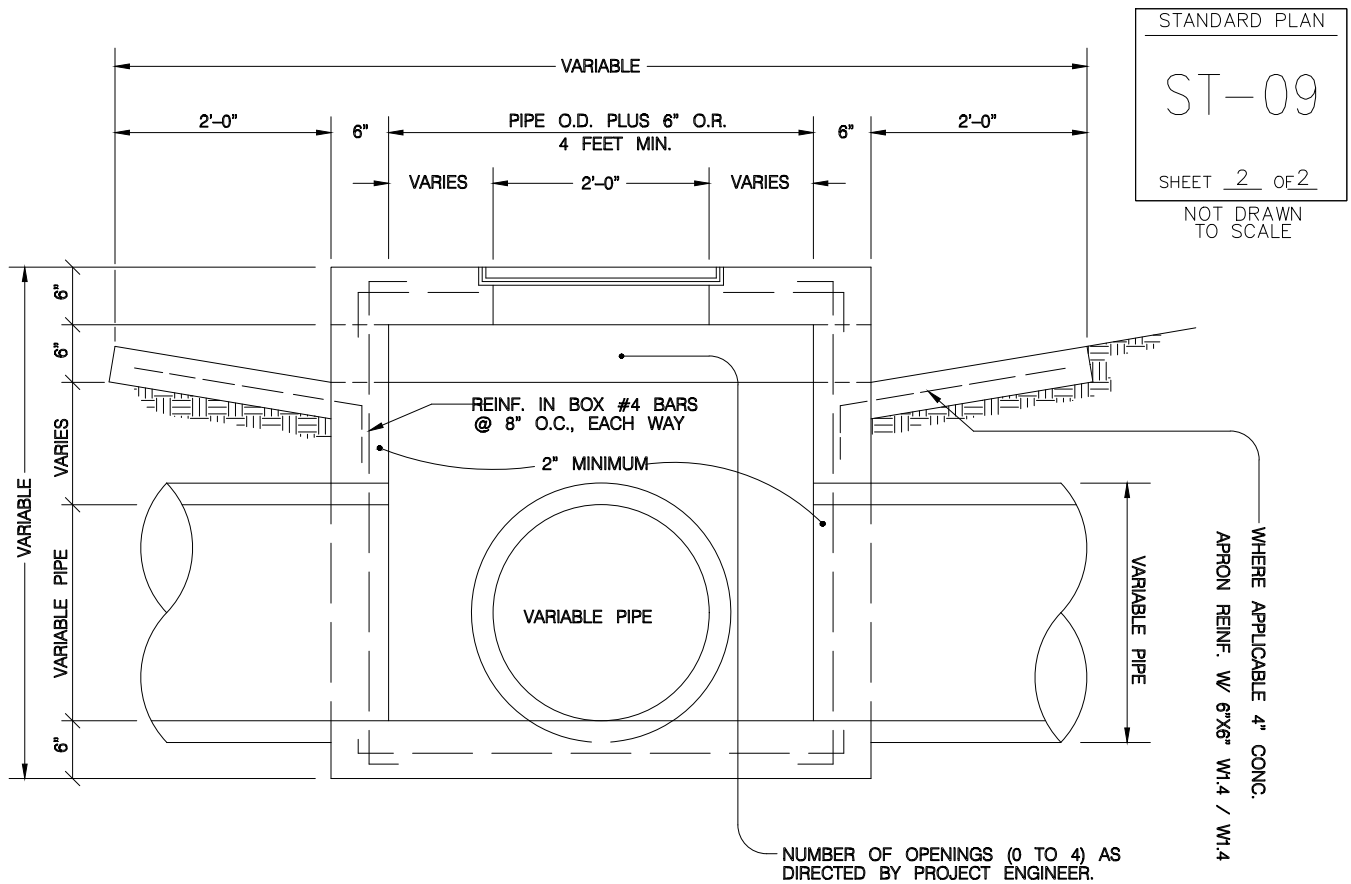
**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185



OCTOBER 2021

PATRICK FURLONG LA LICENSE NUMBER 35185



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)



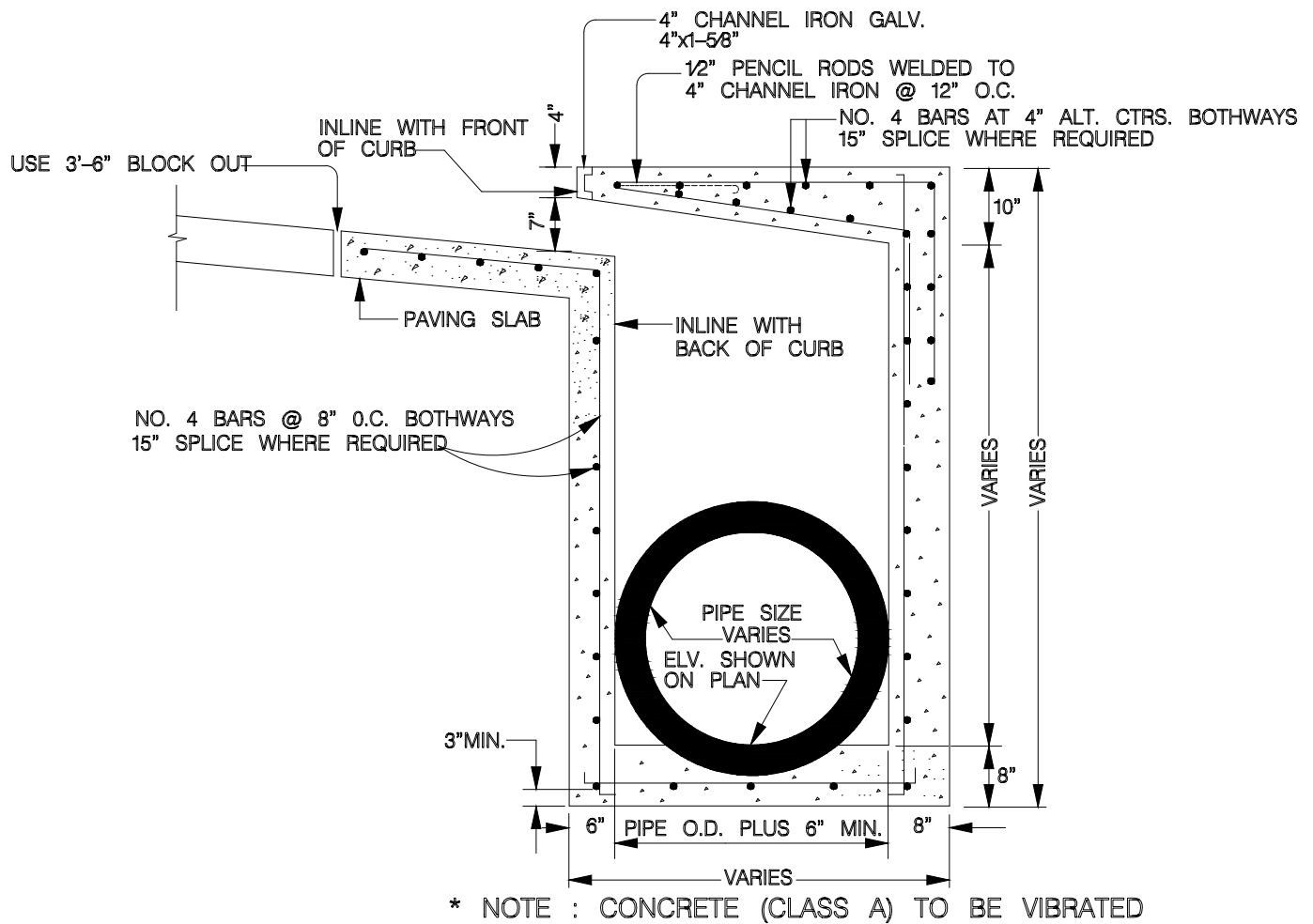
CITY OF SHREVEPORT
STANDARD PLANS

GRATE INLET TYPE B
(OFF ROADWAY USE ONLY)

OCTOBER 2021

PRELIMINARY - NOT
FOR CONSTRUCTION

PATRICK FURLONG LA LICENSE NUMBER 35185



SECTION "A - A"

NOT TO SCALE

CITY OF SHREVEPORT
STANDARD PLANSSPECIAL INLET
CANTILEVER THROAT

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

NOT DRAWN
TO SCALE



ELEVATION
NOT TO SCALE



SPECIAL INLET
CANTILEVER THROAT

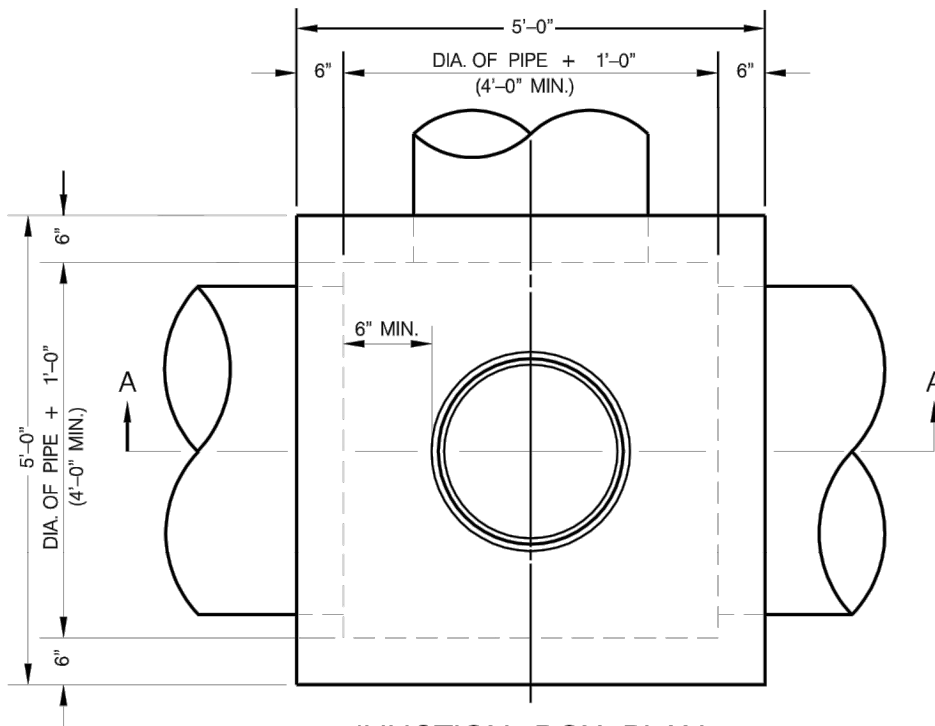
PATRICK FURLONG LA LICENSE NUMBER 35185

STANDARD PLAN

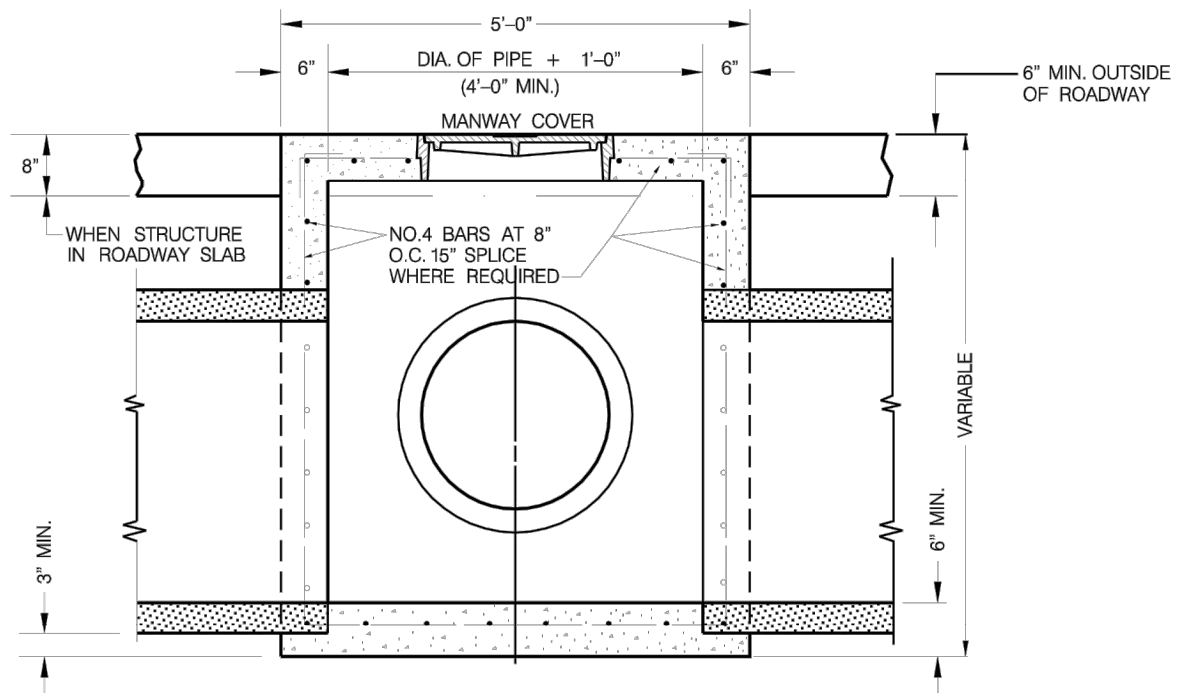
ST-18

SHEET 1 OF 4

NOT DRAWN
TO SCALE



JUNCTION BOX PLAN
NOT TO SCALE



JUNCTION BOX SECTION "A - A"
NOT TO SCALE



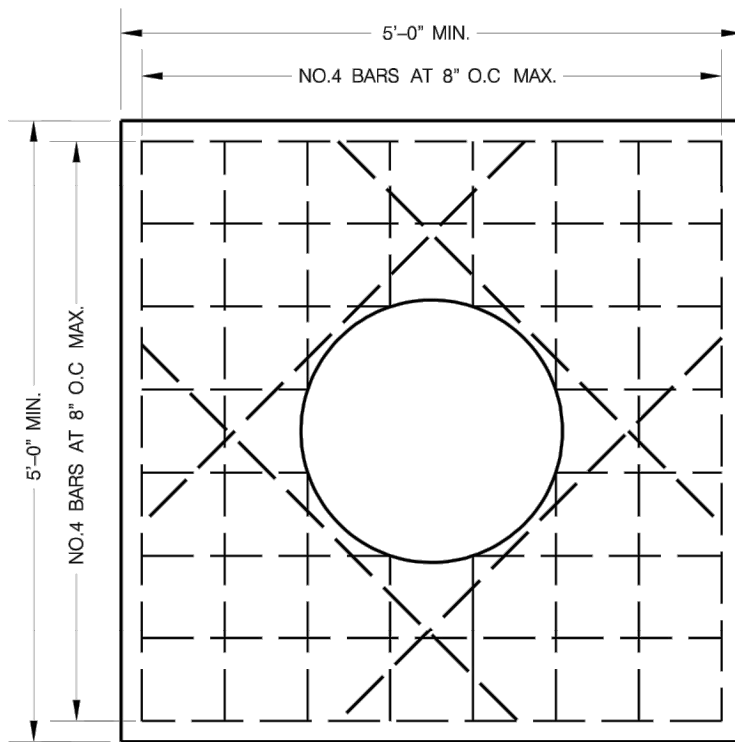
CITY OF SHREVEPORT
STANDARD PLANS

TYPICAL JUNCTION BOX WITH SOLID
OR GRATE COVER

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185



STANDARD PLAN

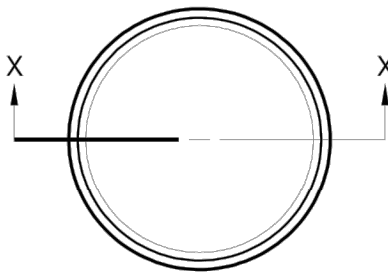
ST-19

SHEET 2 OF 4

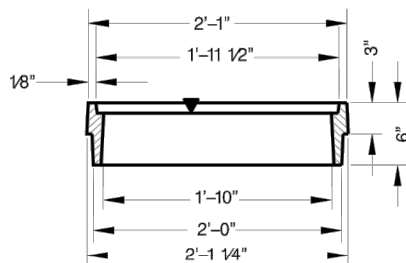
NOT DRAWN
TO SCALE

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



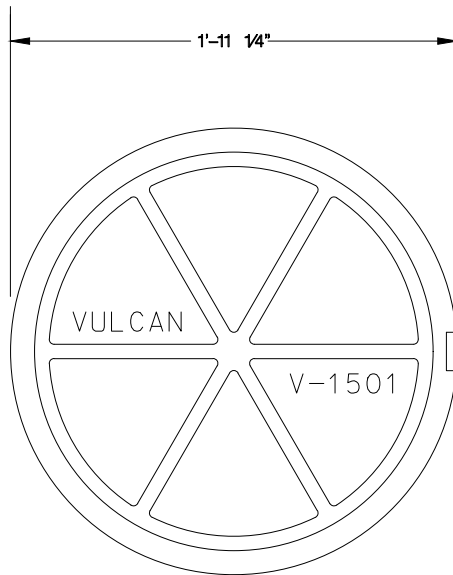
CITY OF SHREVEPORT
STANDARD PLANS

TYPICAL JUNCTION BOX WITH SOLID
OR GRATE COVER

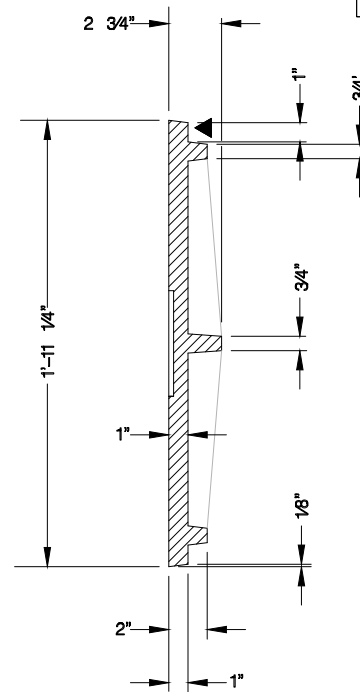
OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185



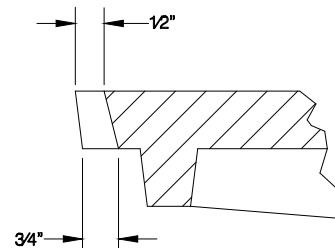
COVER BACK



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



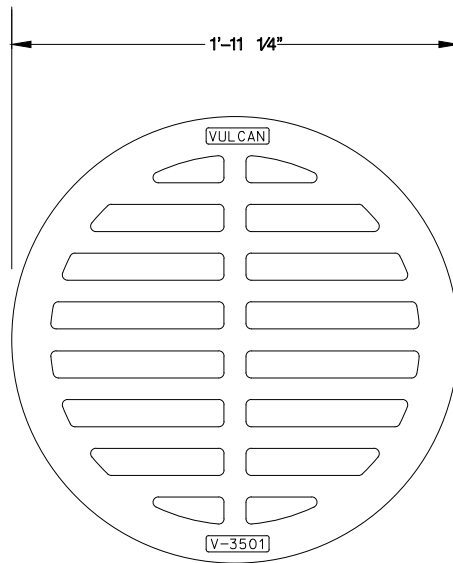
CITY OF SHREVEPORT
STANDARD PLANS

TYPICAL JUNCTION BOX WITH
SOLID OR GRATE COVER

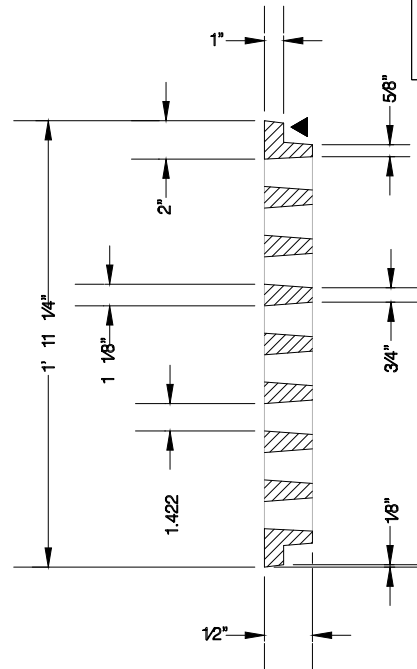
OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

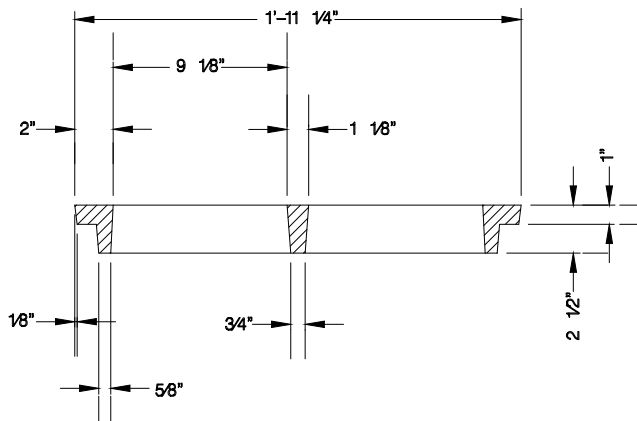
PATRICK FURLONG LA LICENSE NUMBER 35185



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).



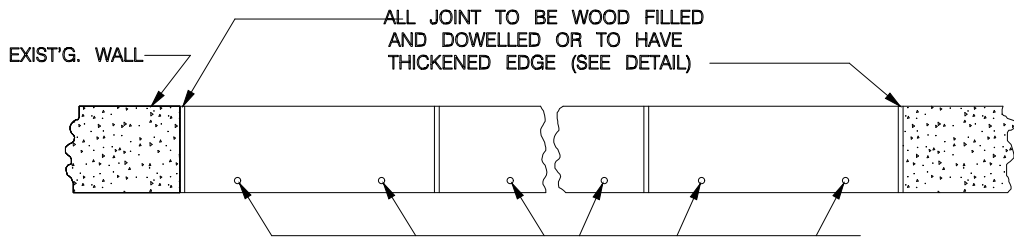
CITY OF SHREVEPORT
STANDARD PLANS

TYPICAL DITCH REPAIR

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

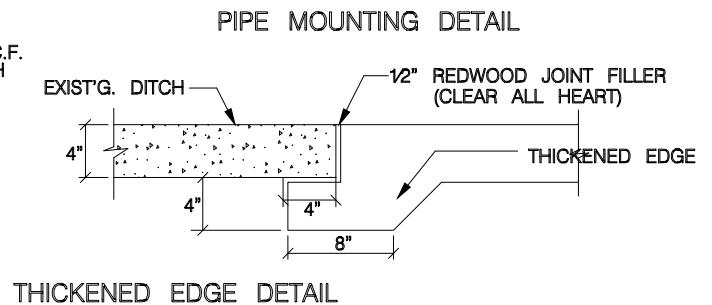
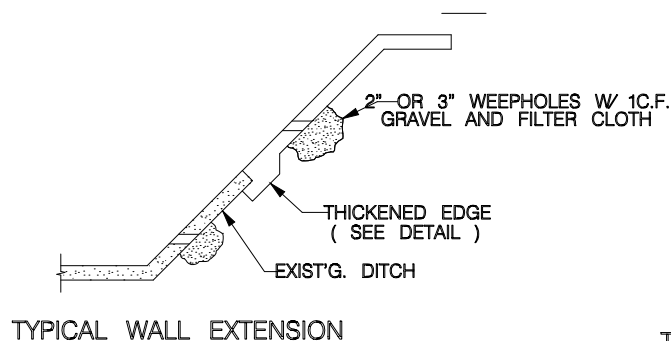
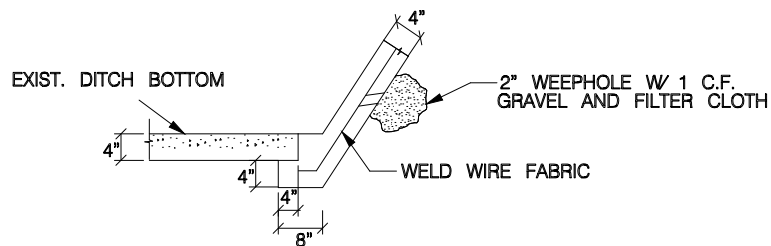
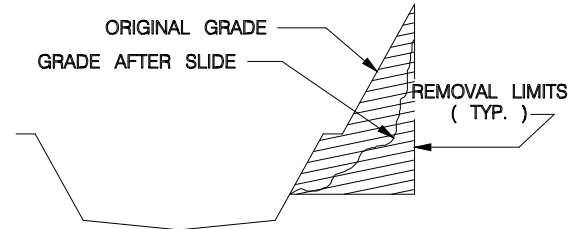
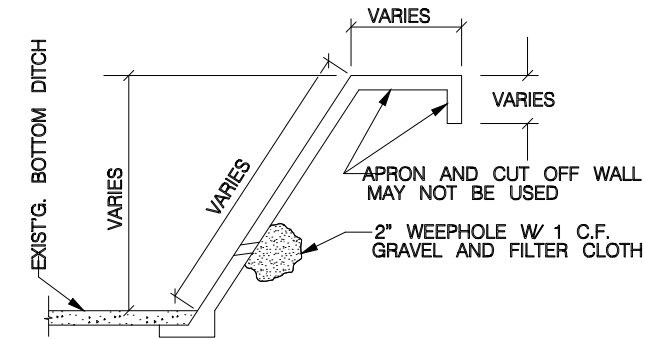


STANDARD PLAN

ST-23

SHEET 2 OF 3

NOT DRAWN TO SCALE



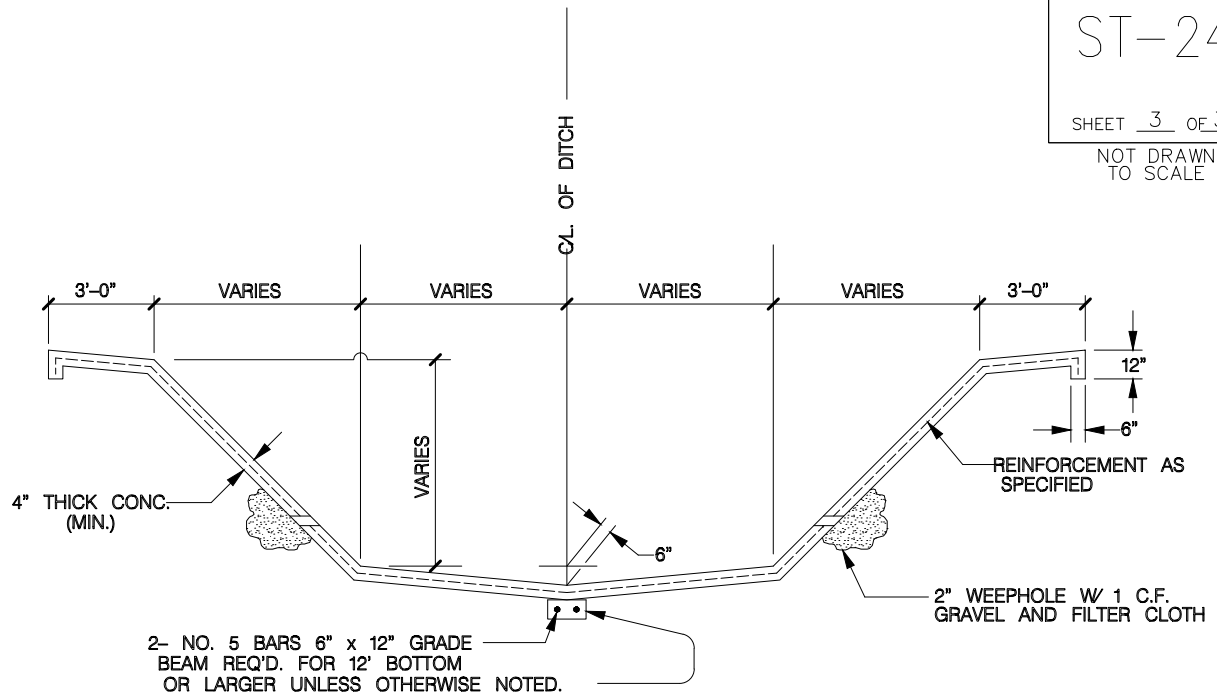
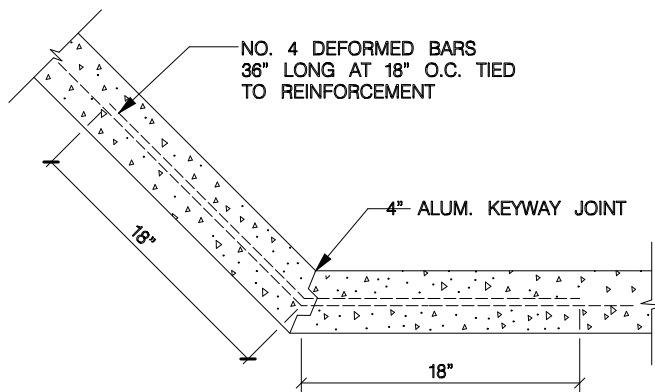
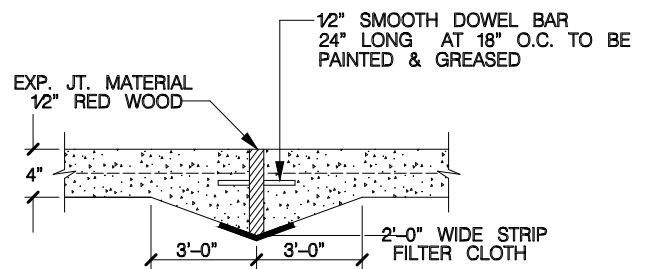
CITY OF SHREVEPORT
STANDARD PLANS

TYPICAL DITCH REPAIR

OCTOBER 2021

PRELIMINARY - NOT
FOR CONSTRUCTION

PATRICK FURLONG LA LICENSE NUMBER 35185

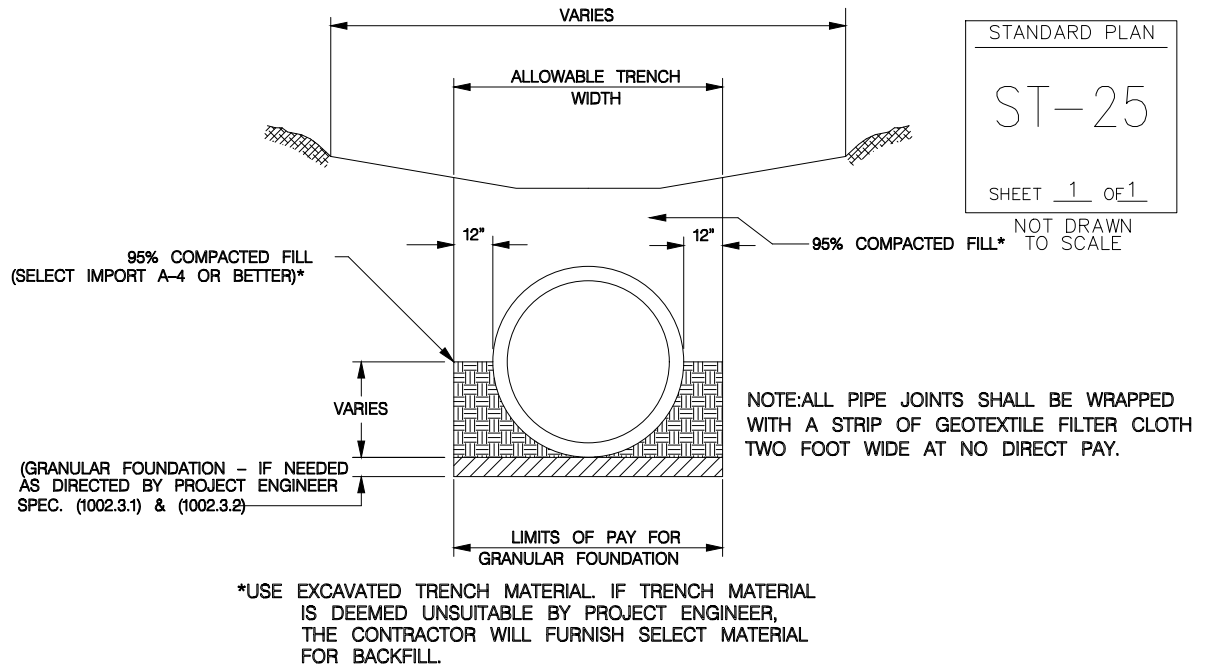
TYPICAL CONC. DITCH SECTION
NOT TO SCALECONSTRUCTION JOINT DETAIL
NOT TO SCALEEXPANSION JOINT DETAIL
NOT TO SCALECITY OF SHREVEPORT
STANDARD PLANS

TYPICAL DITCH REPAIR

OCTOBER 2021

PRELIMINARY - NOT
FOR CONSTRUCTION

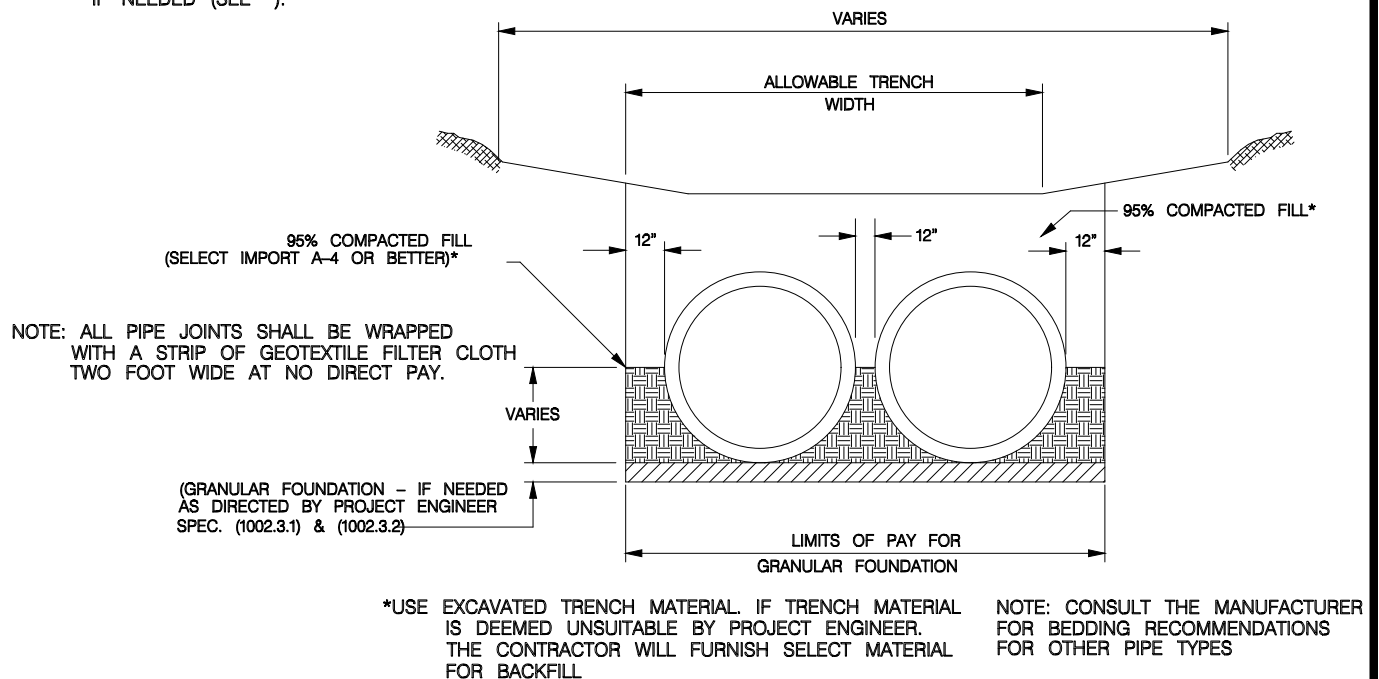
PATRICK FURLONG LA LICENSE NUMBER 35185



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 *).



TYPICAL PIPE BEDDING (DOUBLE PIPE)

NOT TO SCALE



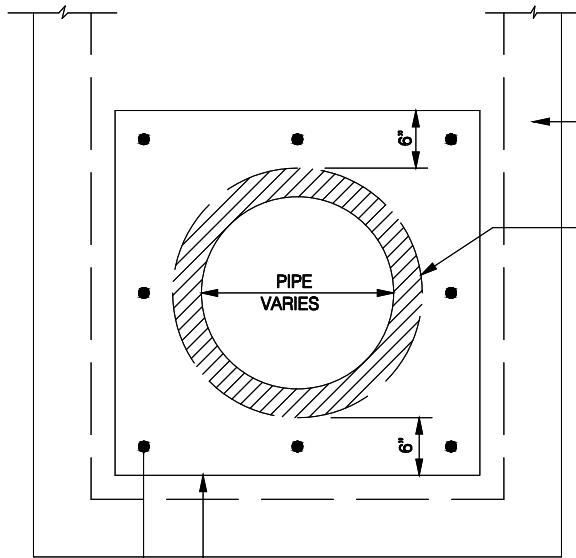
CITY OF SHREVEPORT
STANDARD PLANS

TYPICAL R.C.P. BEDDING AND
EMBANKMENT INSTALLATION

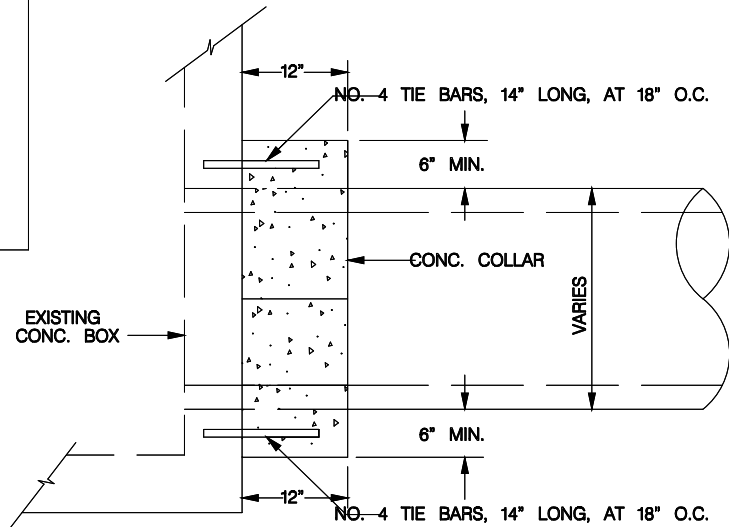
OCTOBER 2021

PRELIMINARY - NOT
FOR CONSTRUCTION

PATRICK FURLONG LA LICENSE NUMBER 35185



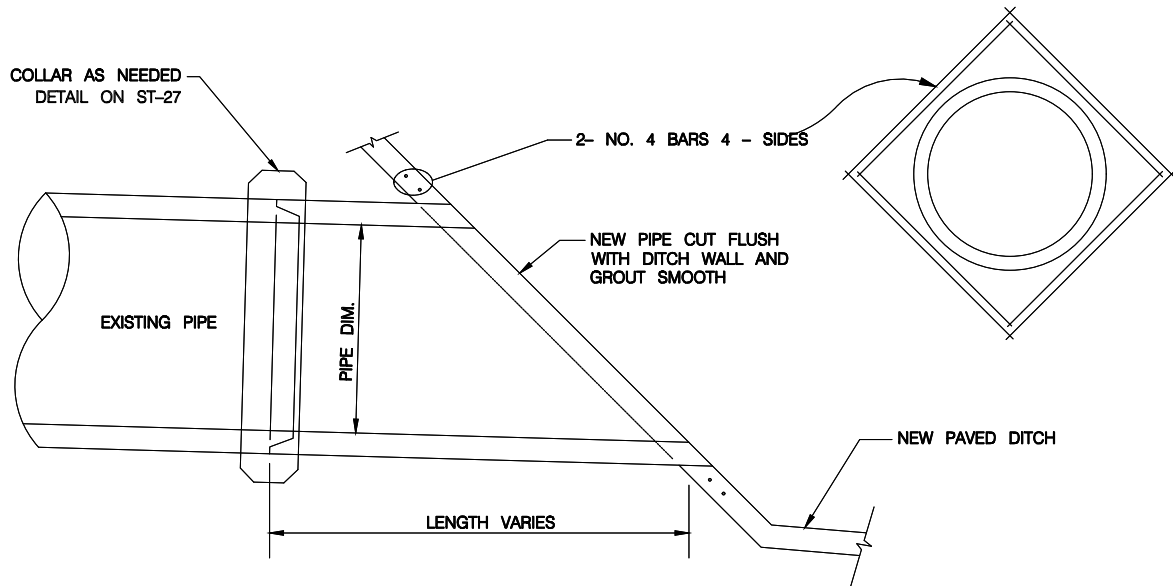
FRONT VIEW



SIDE VIEW

TIE IN PIPE TO EXISTING BOX

NOT TO SCALE



CITY OF SHREVEPORT STANDARD PLANS

PIPE TIE IN TO EXISTING BOX AND DITCH WALL

OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185

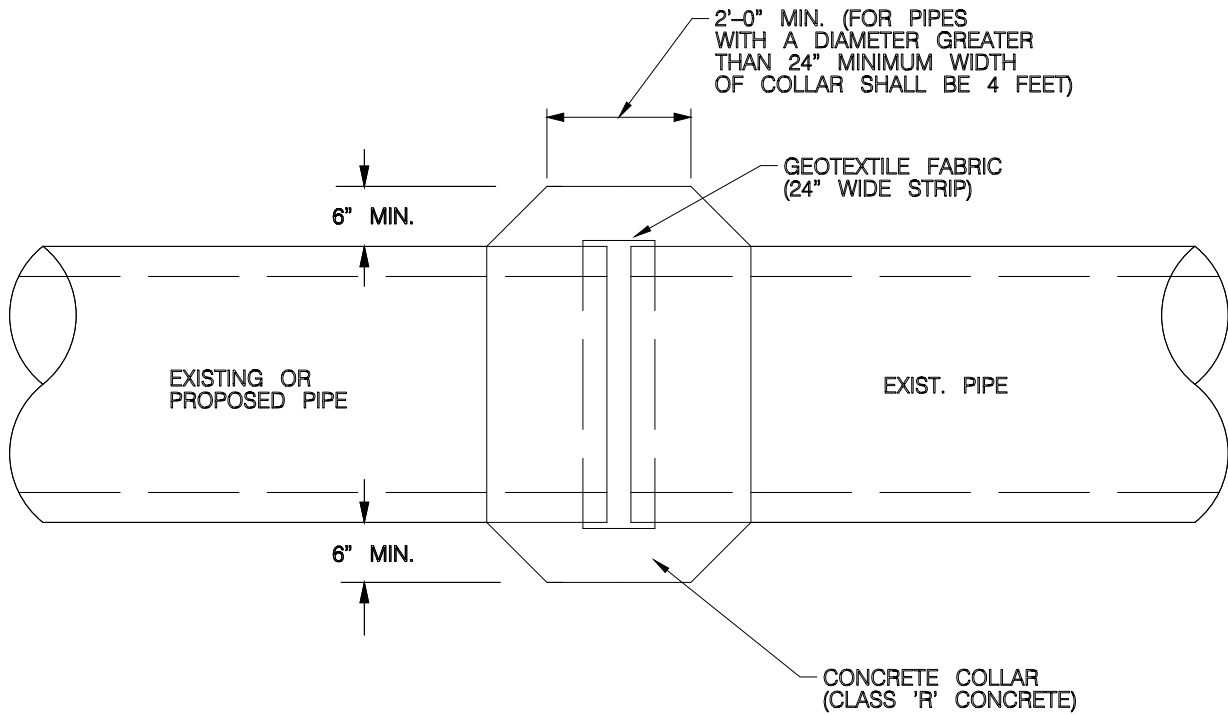
TO REPAIR EXISTING PIPE JOINT SEPARATION
AND/OR TO CONNECT EXISTING PIPE TO NEW PIPE

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

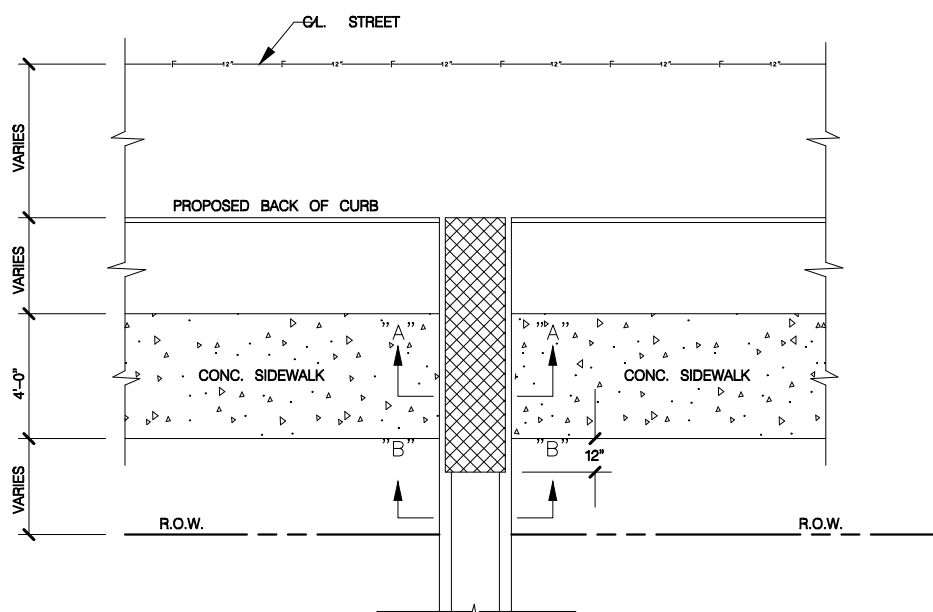
OCTOBER 2021

**PRELIMINARY - NOT
FOR CONSTRUCTION**

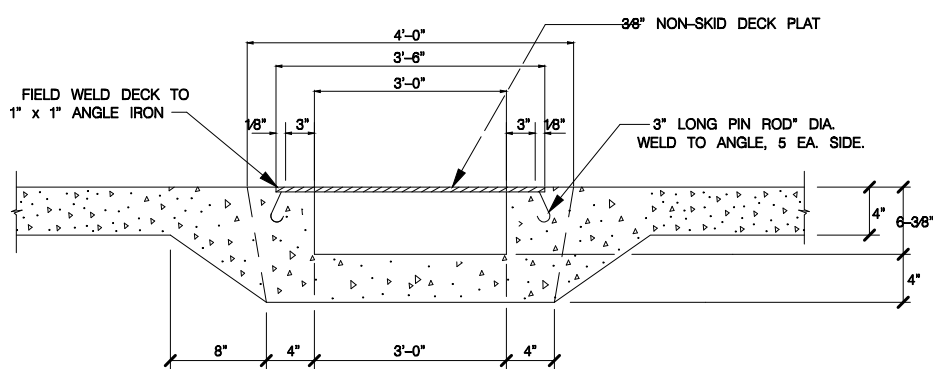
PATRICK FURLONG LA LICENSE NUMBER 35185

ST-28

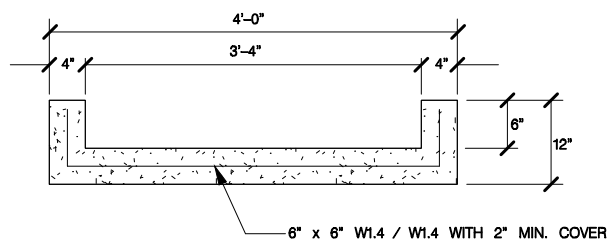
NOT DRAWN
TO SCALE



P L A N
NOT TO SCALE



SECTION " A - A "
NOT TO SCALE



SECTION " B - B "
NOT TO SCALE



SIDEWALK FLUME DETAIL

**PRELIMINARY - NOT
FOR CONSTRUCTION**

PATRICK FURLONG LA LICENSE NUMBER 35185