

**ADDENDUM NO. 2**

**DOBBS BRANCH BASIN IMPROVEMENTS PHASE 2  
City of Chattanooga Project W-17-020-201  
Burns & McDonnell Project 111107**

**CITY OF CHATTANOOGA, TENNESSEE**

**The following modifications are hereby introduced as part of the Contract Documents:**

1) Specification Section 01 22 00 – Measurement and Payment

a. Following Article 1.04 Erosion and Sedimentation Control insert the following:

“1.05 Mobilization

Payment for mobilization includes obtaining insurance and bonds, moving all materials and equipment onto the site, obtaining and paying for all permits by other agencies, furnishing temporary construction facilities, and installing construction signs.”

b. Renumber subsequent articles.

2) Delete Sheet D008 in its entirety and replace with Sheet D008 Rev 1 attached.

3) Delete Sheet D016 in its entirety and replace with Sheet D016 Rev 1 attached.

**The following documents are enclosed herein for reference:**

1) Question and Response No. 2

END OF ADDENDUM NO. 2

January 20, 2020

\_\_\_\_\_  
/s/ Justin C. Holland, Administrator  
City of Chattanooga  
Department of Public Works

*Please acknowledge receipt of all addenda in your submitted Bid Form.*

*Only questions answered in writing by Addenda will be binding.*

Addendum Prepared By  
BURNS & MCDONNELL  
January 20, 2020

PIPE DIAMETER "D" (INCHES)	TRENCH WIDTH "BD" (FEET)	TRENCH* VOLUME PER FOOT OF DEPTH	CLASS "C" BEDDING FOR CONCRETE AND DUCTILE IRON		ROCK TRENCH BEDDING QUANTITY (C.Y.)	
			QTY. (C.Y.)	"S" IN (IN.)	CONC. & D.I.	PVC, ETC.
6 **	2.00	0.074	0.025	4-1/4	0.025	0.037
8	2.33	0.086	0.030	4-1/2	0.030	0.043
10	2.50	0.093	0.036	5-0	0.049	0.062
12	2.67	0.099	0.039	5-1/4	0.054	0.066
15	3.00	0.111	0.046	5-3/4	0.063	0.074
18	3.25	0.120	0.053	6-1/4	0.069	0.080
24	3.83	0.142	0.072	7-1/2	0.108	0.118
30	4.42	0.164	0.098	9-0	0.121	0.137
36	5.67	0.210	0.148	10-1/2	0.194	-----
42	6.25	0.231	0.184	12-0	0.209	-----
48	6.83	0.253	0.223	13-1/2	0.223	-----
54	7.42	0.275	0.226	15-0	0.236	-----
60	8.00	0.296	0.312	16-1/2	0.247	-----
66	8.58	0.318	0.362	18-0	0.258	-----
72	9.17	0.340	0.416	19-1/2	0.268	-----
78	9.75	0.361	0.458	20-1/2	0.291	-----
84	10.33	0.383	0.510	21-3/4	0.315	-----
96	11.50	0.426	0.604	23-3/4	0.365	-----

\* ALL VOLUMES IN CUBIC YARDS/LINEAR FOOT.

\*\* QUANTITIES AND DIMENSIONS FOR 6" SERVICE LINE SHALL APPLY TO 4" SERVICE LINE ALSO.

QUANTITIES FOR CLASS "B" AND ROCK TRENCH BEDDING ARE THE QUANTITIES IN EXCESS OF THOSE REQUIRED FOR CLASS "C" BEDDING.

### SCHEDULE OF BEDDING

PIPE DIAMETER "D" (INCHES)	TRENCH WIDTH TOP OF PIPE "BD" (FT.)	CONCRETE PIPE C-76 CLASS III	CONCRETE PIPE C-76 CL. IV AWWA C-301 D.I.P.	PVC D-3034 AND ASTM F679
CLASS "C" BEDDING (STANDARD BEDDING)				
4"	2.00	---	---	NL
6"	2.00	---	---	NL
8"	2.33	---	---	NL
10"	2.50	---	---	NL
12"	2.67	---	13	NL
15"	3.00	---	12	NL
18"	3.25	---	13	NL
21"	3.54	---	14	NL
24"	3.83	---	15	---
27"	4.08	11	15	---
30"	4.42	11	16	---
33"	4.75	11	16	---
36"	5.67	10	14	---
42"	6.25	11	16	---
48"	6.83	12	17	---
54"	7.42	13	18	---
60"	8.00	13	18	---
66"	8.58	14	19	---
72"	9.17	15	20	---
78"	9.75	16	21	---
84"	10.33	16	21	---
90"				

NL=NO LIMIT TO BOTTOM OF PIPE

BD=MAXIMUM TRENCH WIDTH AT 12" ABOVE TOP OF PIPE. IF DITCH IS CUT WIDER THAN BD SHOWN, THE CONTRACTOR, AT HIS OWN EXPENSE, WILL BE REQUIRED TO INCREASE BEDDING TO COMPENSATE FOR ADDITIONAL LOAD ON THE PIPE.

(PERMISSIBLE DEPTH (IN FEET) TO BOTTOM OF PIPE FOR SATURATED CLAY EARTH LOAD, 130 LBS./CU. FT. (SATURATED CLAY).)

#### NOTES

##### STANDARD BEDDING

MATERIAL SHALL BE PLACED AS SHOWN BY THE STANDARD DETAILS FOR THE TYPE OF PIPE USED. THE BEDDING SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID PER LINEAR FOOT OF PIPE FOR VARIOUS TYPES, SIZES, AND DEPTHS LISTED IN THE BID SCHEDULE.

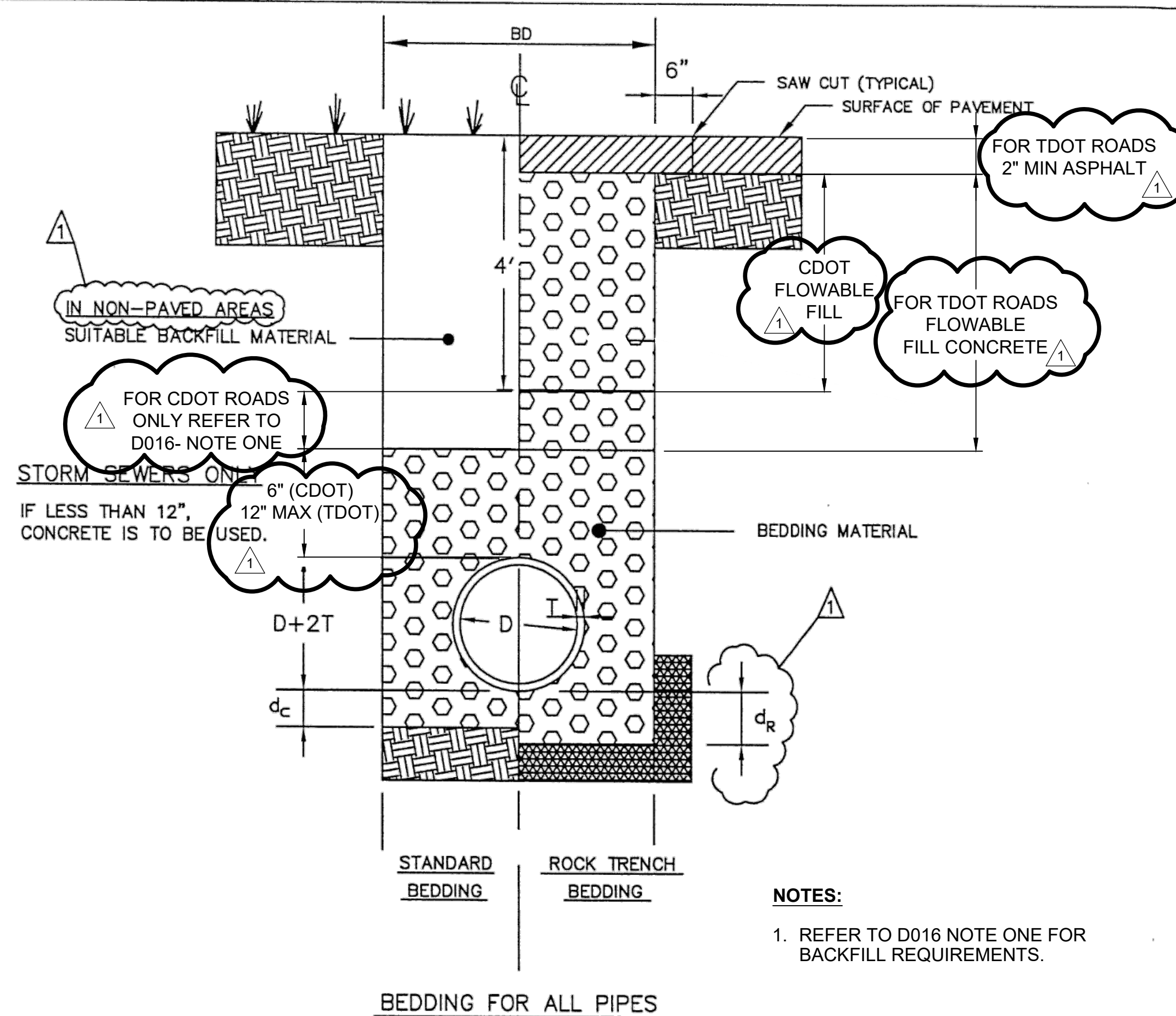
CLASS "B" BEDDING MATERIAL (SECTION 204.04, TENNESSEE D.O.T. SPECIFICATIONS)- MATERIAL FOR CLASS "B" BEDDING FOR PIPE CULVERTS SHALL CONSIST OF SAND OR A NATURAL SANDY SOIL, ALL OF WHICH PASSES A 3/8-INCH SIEVE AND NOT MORE THAN TEN PERCENT PASSES A NO. 200 SIEVE; OR STONE, GRAVEL, CHERT, OR SLAG MEETING THE GRADING REQUIREMENTS FOR EITHER GRADING C, D, OR E OF SUBSECTION 903.05.

IN ROCK CUTS OR OTHER AREAS DESIGNATED BY THE ENGINEER WHERE A FREE DRAINAGE BEDDING OR BACKFILL MATERIAL IS REQUIRED, THE MATERIAL SHALL BE CRUSHED STONE, CRUSHED SLAG, OR WASHED GRAVEL MEETING THE REQUIREMENTS OF SUBSECTION 903.17.

PVC PIPE BEDDING MATERIAL-NO. 7 WASHED STONE (SECTION 903.22, TENNESSEE D.O.T. SPECIFICATIONS).

##### ROCK TRENCH BEDDING

MATERIAL SHALL BE SAME AS FOR CLASS "B" BEDDING AND SHALL BE PLACED AS SHOWN BY THE STANDARD DETAILS FOR THE TYPE OF PIPE USED. QUANTITIES FOR THE ROCK TRENCH BEDDING ARE THE AMOUNTS IN EXCESS OF THOSE REQUIRED FOR CLASS "C" BEDDING.

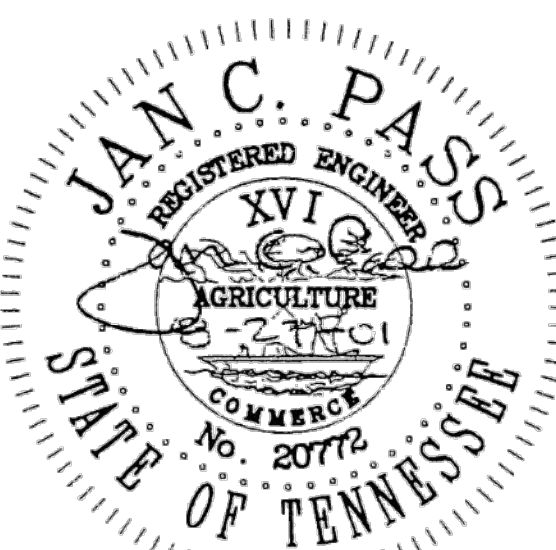
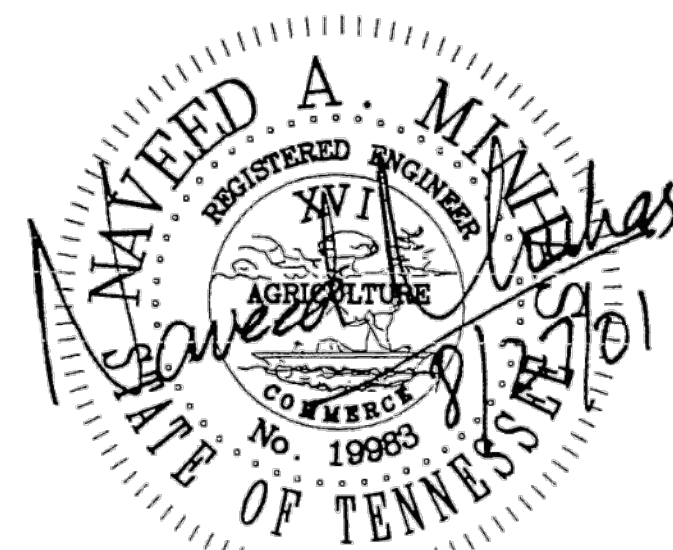


### TRENCH DETAILS

NOT TO SCALE

D	dc	dr
8" AND LESS	6"	10"
10" TO 18"	8"	12"
20" TO 30"	10"	14"
32" AND LARGER	12"	16"

F:\STDDWGS\TrenchDetails\STDTRNCH.dwg



NO.	REVISION	DATE
1	REVISIONS AS MARKED OR CLOUDED	8/24/01
0	INITIAL ISSUE	12/10/99

**CITY OF CHATTANOOGA AND HAMILTON COUNTY**  
**TRENCH DETAILS AND BEDDING (STORM/SANITARY SEWERS)**

DATE OF ORIGINAL ISSUE: **DECEMBER 10, 1999**

STANDARD NUMBER: **SD-307.01**

**BURNS MEDONNELL**  
 100 W. MILY BLVD  
 SUITE 900  
 CHATTANOOGA, TN 37402  
 423.265.2996

**PAUL MATHEIS BRACEFIELD**  
 REGISTERED ENGINEER  
 AGRICULTURE  
 STATE OF TENNESSEE  
 No. 11689  
 1/20/2022

**DOBBS BRANCH BASIN IMPROVEMENTS PHASE 2**  
 CITY OF CHATTANOOGA, TN  
 CONSENT DECREE PROGRAM

REV	DATE	DESCRIPTION
1	01/20/20	REVISED DETAILS
0	11/05/2019	ISSUED FOR CONSTRUCTION

THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE

THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

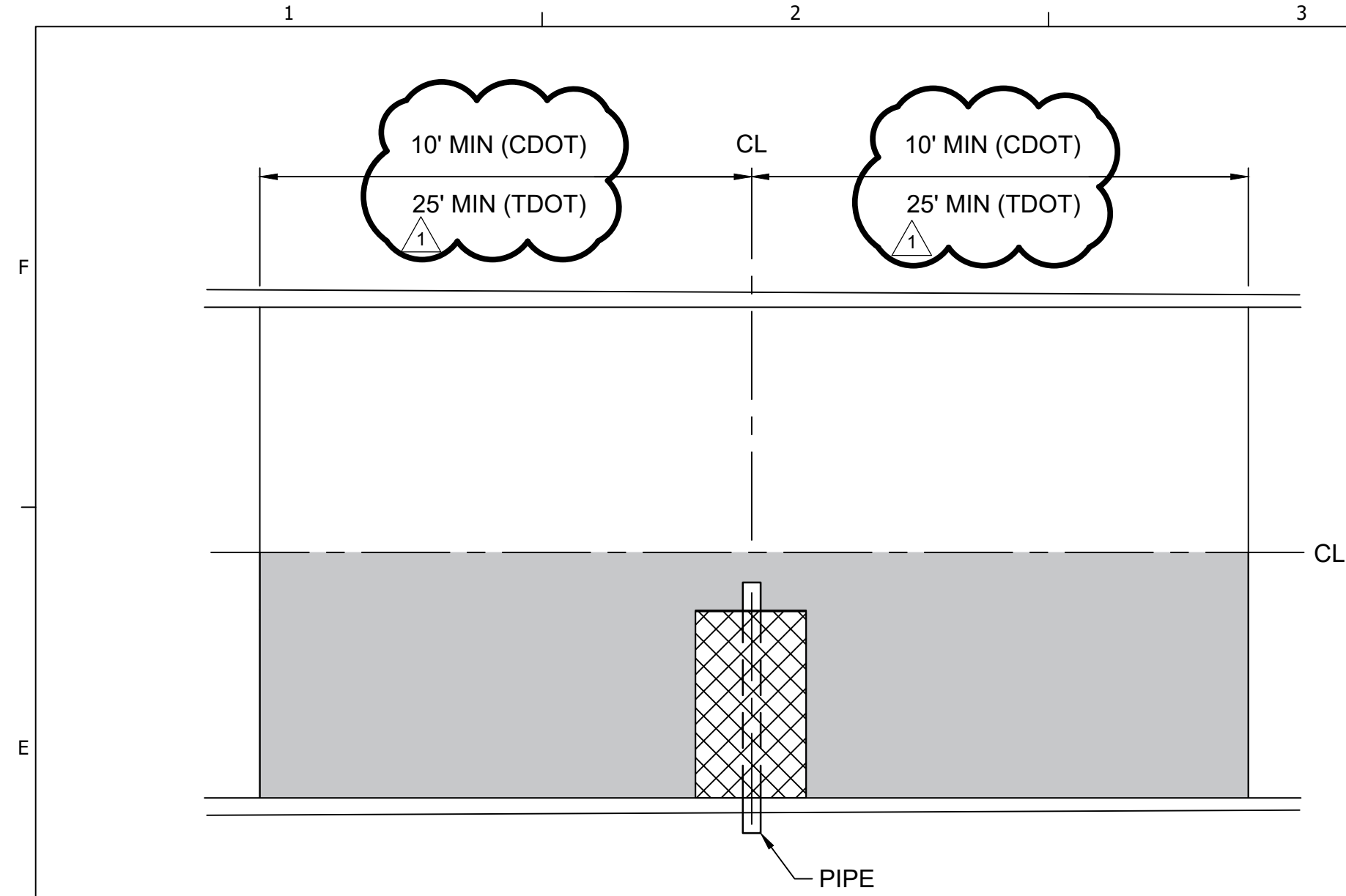
PROJECT NO: 111107  
 DATE: 11/05/2019  
 DISC. LEAD: TKH    DESIGNER: BPO    CHECKER: GHD

SHEET TITLE: CIVIL

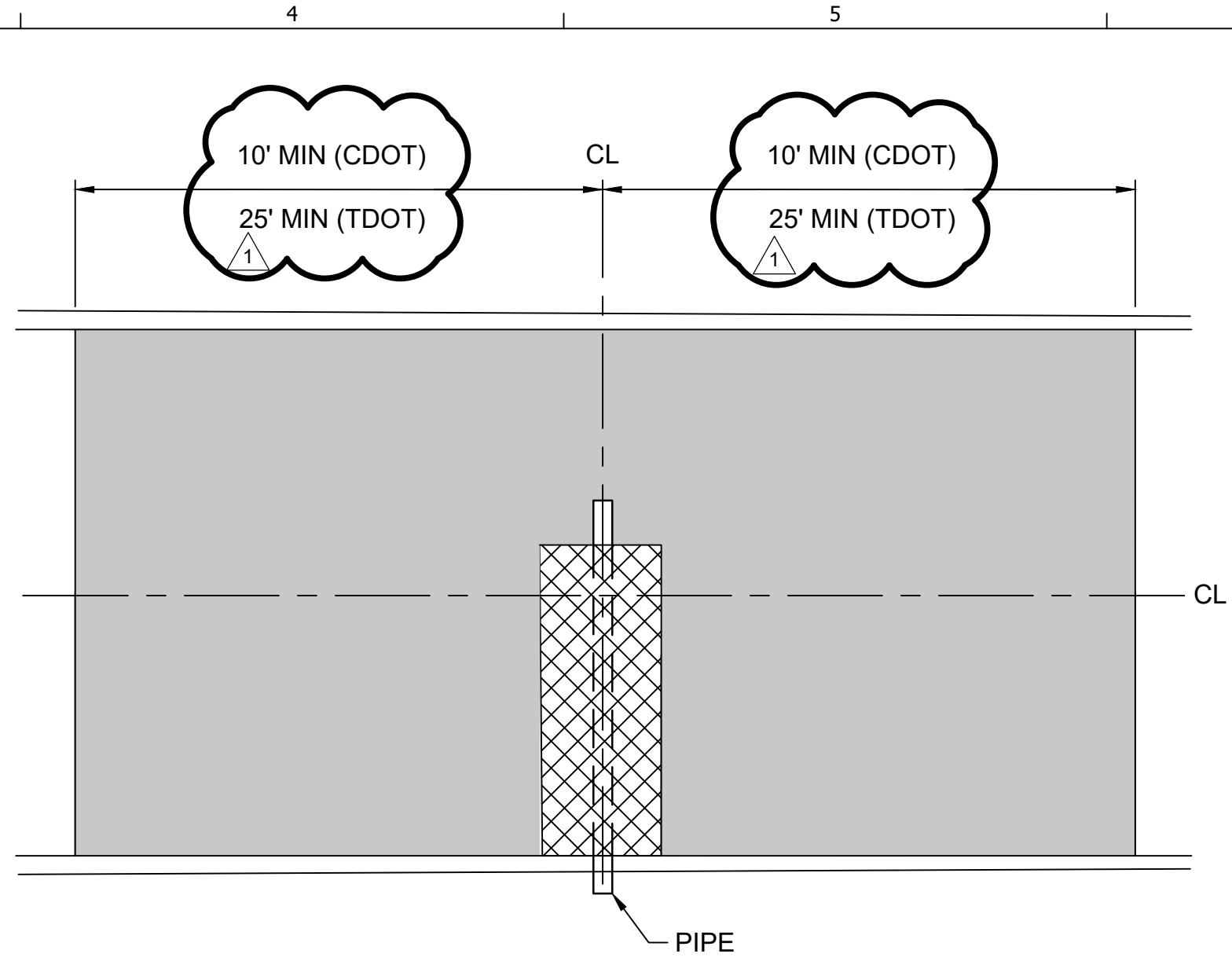
DETAILS SHEET 8

SHEET: D008

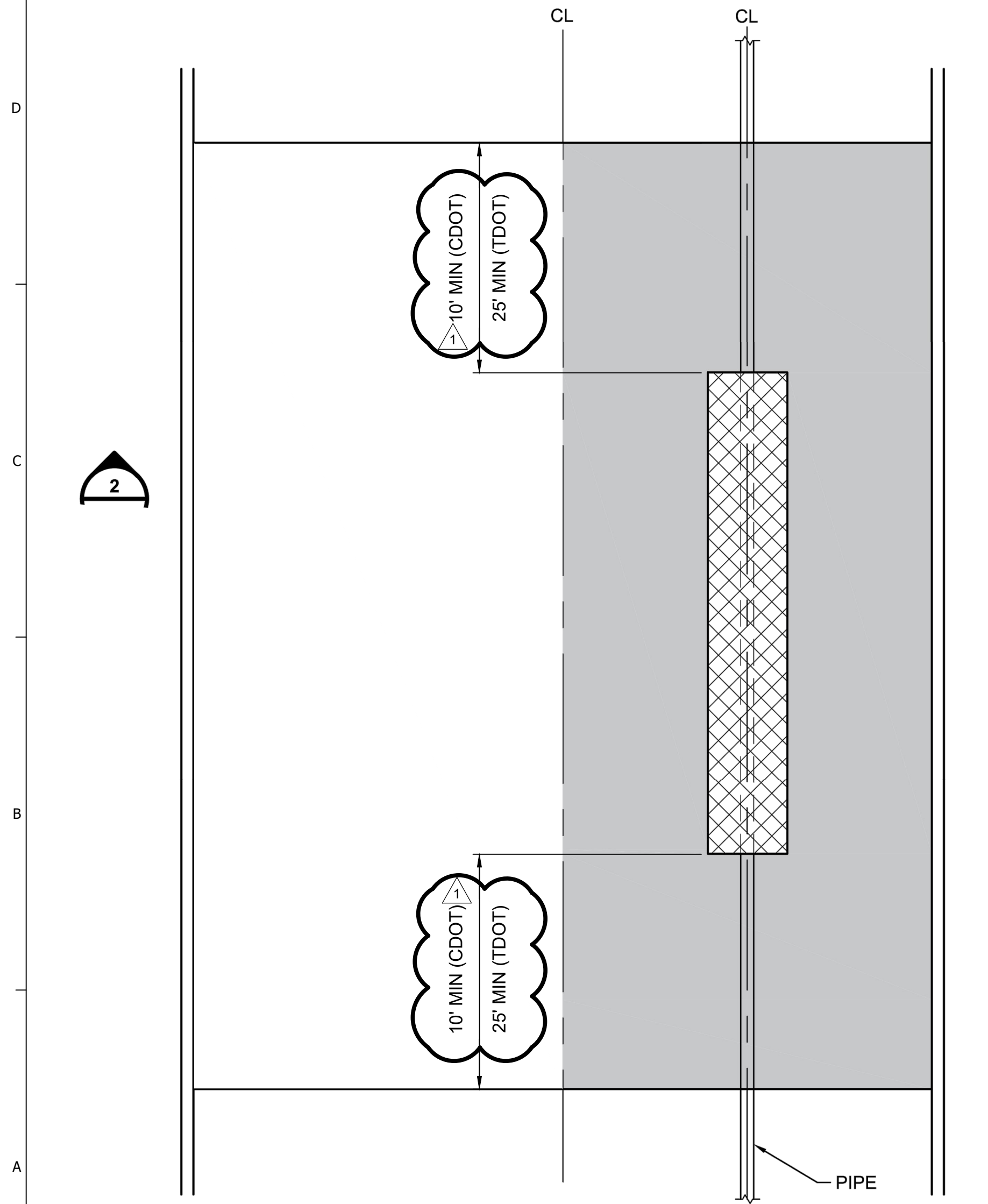
CREATED: 1/20/2020 LAST SAVED: 1/20/2020 BY: BPOLLENBORG PLOT DATE: 1/20/2020



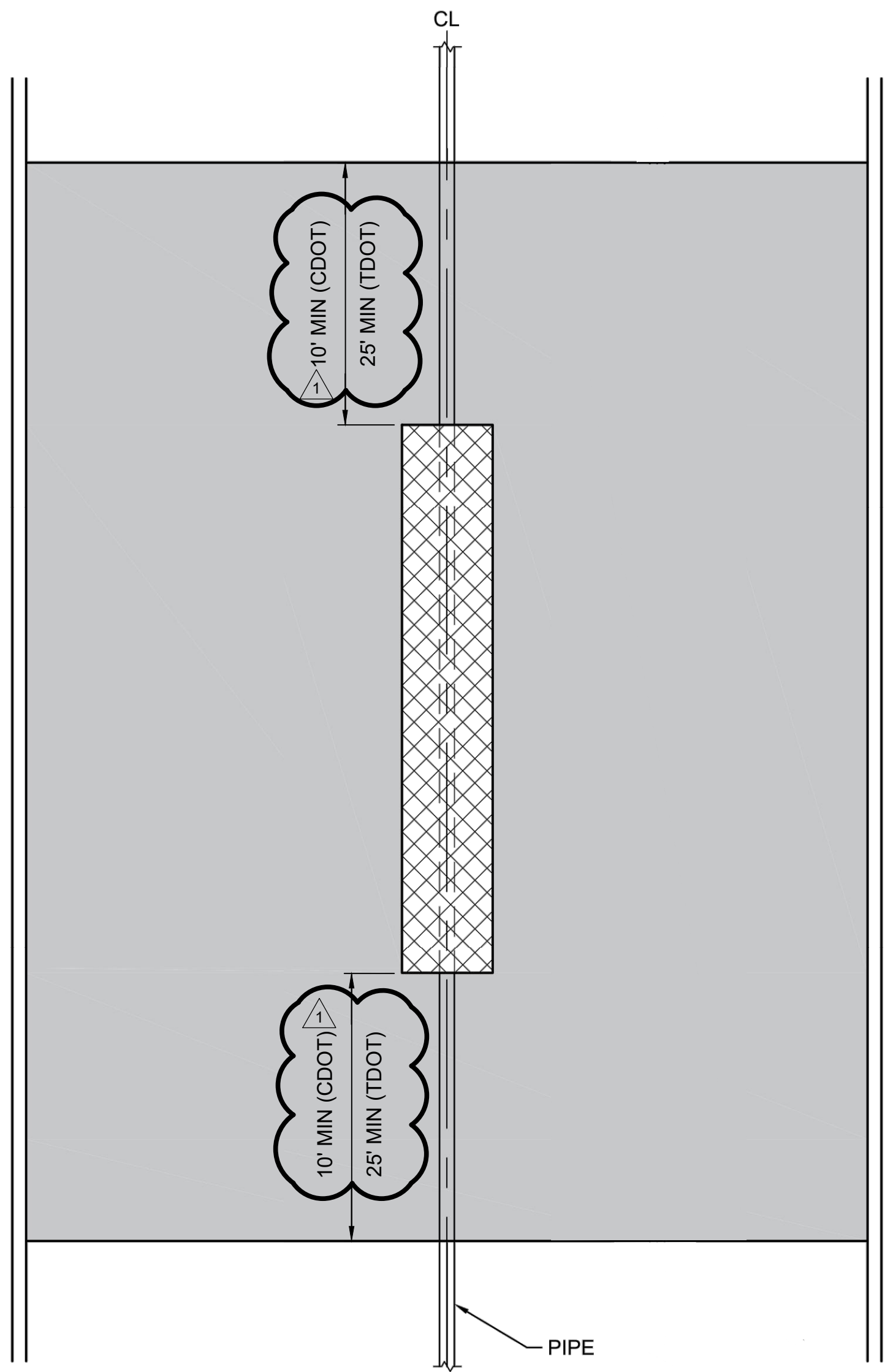
**REPAVEMENT DETAIL  
PERPENDICULAR CUT  
IN ONE LANE  
NOT TO SCALE**



**REPAVEMENT DETAIL  
PERPENDICULAR CUT  
CROSSING CENTER LINE  
NOT TO SCALE**



**REPAVEMENT DETAIL  
PLAN VIEW- PARALLEL  
CUT IN ONE LANE  
NOT TO SCALE**

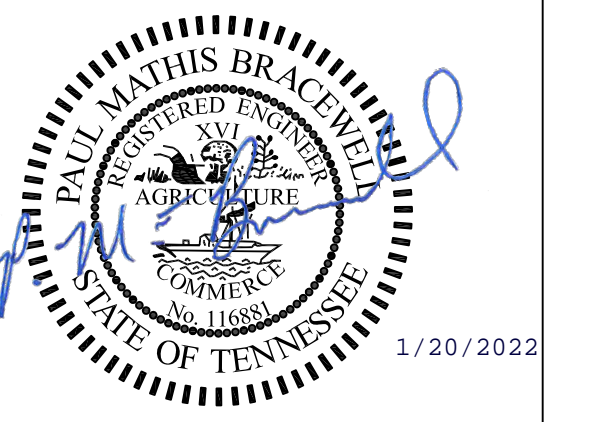


**REPAVEMENT DETAIL  
PLAN VIEW- PARALLEL CUT  
CROSSING THE CENTERLINE  
NOT TO SCALE**

**NOTES:**

- FOR BACKFILL IN ROADWAY AREAS, THE CONTRACTOR SHALL PROVIDE SIX (6) INCHES OF GRADED AGGREGATE BASE ABOVE THE UTILITY'S MAIN LINE. FROM TOP OF GRADED AGGREGATE BASE BACKFILL TO WITHIN FOUR (4) FEET OF THE STREET SURFACE, THE CONTRACTOR SHALL PROVIDE FINE AGGREGATE (CRUSHED LIMESTONE DUST NO LARGER THAN ONE-SIXTEENTH (1/16) INCH). EACH EIGHT (8) INCH LIFT OF THE FINE AGGREGATE BASE SHALL BE MOISTENED AND COMPACTED BY MEANS OF A MECHANICAL TAMP. THE CONTRACTOR SHALL COMPLETE THE BACKFILL UP TO THE BOTTOM OF THE PAVING WITH FLOWABLE FILL WITH A COMPRESSIVE STRENGTH OF TWO HUNDRED (200) TO TWO HUNDRED FIFTY (250) PSI IN FORTY-EIGHT (48) HOURS. FLOWABLE FILL SHALL BE PLACED A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO THE PLACING OF THE ASPHALT OR CONCRETE TOPPING. WHERE IT IS IMPRACTICAL TO USE FLOWABLE FILL BECAUSE OF TERRAIN, SLOPE, WIDTH OF TRENCH, OR OTHER SITUATIONS, THE MATERIAL FOR THE BACKFILL IN THE ROADWAY AREAS MAY BE APPROVED FOR CEMENT TREATED AGGREGATE BASE AT THE SOLE DISCRETION OF THE DEPARTMENT OF TRANSPORTATION. EACH EIGHT (8) INCH LAYER OF BACKFILL SHALL BE THOROUGHLY COMPACTED BY MEANS OF A MECHANICAL TAMP. OTHER BACKFILL MATERIALS MAY BE ACCEPTABLE, BUT PRIOR APPROVAL FOR THE SUBSTITUTION SHALL BE DETERMINED BY THE LAND DEVELOPMENT OFFICE.
- BACKFILL FOR TRENCHES WITHIN THE SIDEWALK AREAS SHALL BE COMPACTED GRADED AGGREGATE BASE INSTEAD OF LOOSE WASHED STONE. EACH EIGHT (8) INCH LAYER OF GRADED AGGREGATE BASE SHALL BE THOROUGHLY COMPACTED BY MEANS OF MECHANICAL TAMP.
- ANY PERPENDICULAR CUT IN A ROADWAY MUST BE REPAVED NO LESS THAN THE FULL WIDTH OF THE TRAVEL LANE(S) THAT IT CUTS, AND A MINIMUM OF TEN (10) FEET ON EACH SIDE OF THE CENTERLINE OF THE EXCAVATION. ANY LONGITUDINAL CUT MUST BE REPAVED NO LESS THAN THE FULL WIDTH OF THE TRAVEL LANE(S) THAT IT CUTS EXTENDED NO LESS THAN TEN (10) FEET BEYOND THE BEGINNING AND END OF THE CUTS BEING MADE.
- THE PROPOSED RESTORATION PLAN SHALL REQUIRE THAT PERMANENT REPAIRS OF RESTORATION OF STREET CUTS SHALL BE MADE TO MATCH EXISTING SURFACES.
- CONTRACTOR MUST APPLY FOR AND OBTAIN THE PROPER STREET CUT PERMITS PRIOR TO EACH STREET CUT. STREET CUT PERMITS ARE THE FULL RESPONSIBILITY OF THE CONTRACTOR AND ANY COST/DELAY INCURRED IS THE LIABILITY OF THE CONTRACTOR. STREET CUT PERMIT APPLICATIONS CAN BE FOUND IN THE SPECIFICATIONS APPENDIX C AND ON THE CITY OF CHATTANOOGA LAND DEVELOPMENT OFFICE'S WEBSITE.

**BURNS  
MEDONNELL**  
100 W. MILY BLVD  
SUITE 900  
CHATTANOOGA, TN 37402  
423-265-2996



1/20/2022

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IMPROVEMENTS PHASE 2  
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PROJECT NO: 111107  
DATE: 11/05/2019  
DISC. LEAD: TKH DESIGNER: BPO CHECKER: GHD

SHEET TITLE CIVIL

DETAILS SHEET 16

SHEET D016

## QUESTION AND RESPONSE NO. 2

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**DOBBS BRANCH BASIN IMPROVEMENTS PHASE 2  
City of Chattanooga Project W-17-020-201  
Burns & McDonnell Project 111107**

**CITY OF CHATTANOOGA, TENNESSEE**

**The following responses are provided to bidder requests for information:**

1. *Question: •According to 33 01 30.73-7, design requirements specify an ovality of 5%. Are there abnormally severe issues with the pipe condition or other issues that are driving the use of 5% ovality? Will the owner please explain and/or further clarify the use of increased ovality design requirement?*

Response: Pipe condition will not be known until CCTV is completed. No Change.

2. *Question: •Does the Owner have right of entry agreements for the residential and Federal properties on Missionary Ridge? Can an allowance be added for this cost?*

Response: No allowance will be added. No Change.

END OF QUESTION AND RESPONSE NO. 2