

## PUBLIC WORKS Engineering

DATE: October 01, 2025

TO: PAUL ZACHARY,
PUBLIC WORKS DEPUTY
DIRECTOR

FROM: H. SOMDECERFF, PUBLIC WORKS DESIGN MANAGER

The Specification Review Committee recommends and asks the Public Works Deputy Director to approve the following:

1. Approve Modification to Standard Detail 304 - Trench & Bedding Detail (NON-PAVED AREAS) - Rigid Pipe.

Summary of change: Detail has been redesigned for applicability to all rigid pipe used in water, sewer, and stormwater lines.

Please call Marqua Jimmerson at (918) 596-7355 If you have any questions.

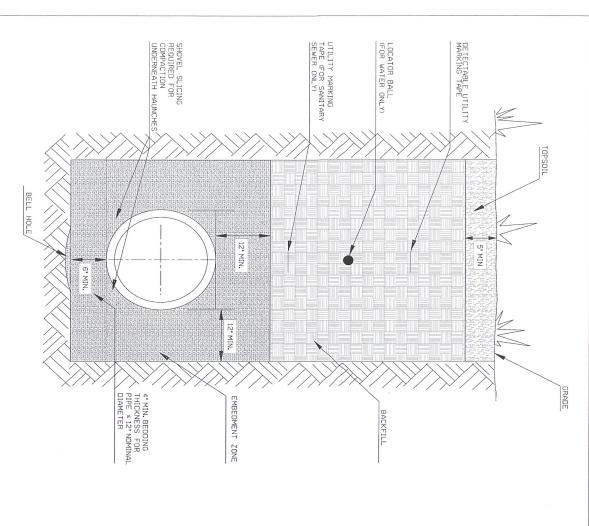
Thank you,

APPROVED:

Paul Zachary, Deputy Director

10.07.25 Date

Cc: Public Works Engineering Services Specification Review Committee



≥ 48"	≥ 24", < 48"	< 24"	PIPE SIZE (NOM. DIA.)
00 + 4'-0"	0D + 3'-Ø"	00 + 2'-0"	STANDARD TRENCH WIDTH

WIDTHS IN THIS TABLE SHALL BE USED TO ESTIMATE QUANTITIES. EXCAVATION AND BACKFILL NOTE: THE STANDARD TRENCH

## GENERAL NOTES:

- 1. RIGID PIPE INCLUDES:
- U im PRESTRESSED CONCRETE CYLINDER PIPE (PCCP) - ANSI/AWWAC301/C304 REINFORCED CONCRETE PIPE (RCP) - ASTM C76
- VITRIFIED CLAY PIPE (VCP) ASTM C700
- 2. EMBEDMENT ZONE MATERIAL SHALL BE COMPACTED SAND OR OTHER BEDDING MATERIAL APPROVED BY ENGINEER, PLACED IN 12-INCH MAX LOOSE LIFTS AND FREE FROM ORGANIC MATTER, TRASH, AND OTHER DELETERIOUS MATERIALS. SHOVEL SLICING IS REQUIRED FOR COMPACTION UNDERNEATH PIPE HAUNCHES.
- 3. BACKFILL SHALL BE SUITABLE NATIVE MATERIAL OR IMPORTED MATERIAL APPROVED BY ENGINEER, PLACED IN 12-INCH MAX LOOSE LIFTS COMPACTED TO 90% STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698 AND AASHTO T99, AND FREE FROM ORGANIC MATTER, TRASH, AND OTHER DELETERIOUS MATERIALS, ROCKS LARGER THAN 3 INCHES SHALL NOT BE ALLOWED WITHIN 15 INCHES BELOW FINISHED GRADE OR WITHIN 18 INCHES ABOVE THE PIPE
- 4. TOPSOIL TO BE SEGREGATED AND RESTORED TO A 5-INCH MINIMUM PLATE-COMPACTED DEPTH AND FREE OF BRUSH, ROCK, SHALE, AND OTHER DELETERIOUS MATERIALS.
- SOD TO BE CUT IN AND LEVEL WITH SURROUNDING GRADE.

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- UPPER DETECTABLE UTILITY MARKER TAPE TO BE INSTALLED AT A MAXIMUM 10-INCH DEPTH BELOW GRADE AND IMPRINTED WITH "CAUTION (SEWER/WATER) PIPE BELOW". MARKER TAPE COLOR TO BE BLUE FOR WATER, AND GREEN FOR SANITARY SEWER OR STORM SEWER.
- 7. <u>FOR WATER LINES ONLY:</u> LOCATOR BALLS TO BE INSTALLED PER CITY OF TULSA STANDARD NO. 322.
- 8. <u>FOR SANITARY SEWER ONLY</u>; LOWER UTILITY MARKING TAPE TO BE INSTALLED 12 INCHES MINIMUM TO 18 INCHES MAXIMUM ABOVE THE CROWN OF PIPE.
- FOR INSTALLATIONS UNDER PAVEMENT, SEE CITY OF TULSA STANDARD NO. 713.
- 10. WHERE A WATER TABLE CRADLE IS REQUIRED TO PREVENT SOIL MIGRATION AND/OR STABILIZE PIPE FOUNDATION, SEE CITY OF TULSA STANDARD NO. : 367.
- 11. SAND SHALL BE COMPACTED TO AT LEAST 90% OF AS DETERMINED BY ASTM D698 AND AASHTO T99. ITS MAXIMUM DRY DENSITY
- 12. WHEN SPECIFIED, ODOT TYPE "A" AGGREGATE BASE SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698 AND AASHTO
- 13. WHEN USED, CLEAN CRUSHED STONE SHALL BE COMPACTED TO DENSITY AS DETERMINED BY ASTM D4253 AND ASTM D4254. 80% RELATIVE

(NON-PAVED TRENCH & AREAS)-RIGID PIPE BEDDING DETAIL

CITY 유 TULSA

DATE: AUGUST (2) CHECKED BY: DRAWN BY: D.J.N

NOT TO SCALE

