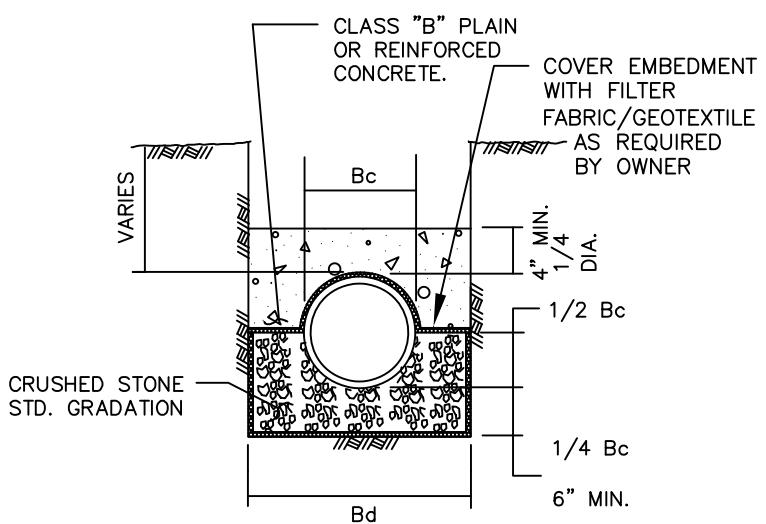


CLASS "A"

CLASS "B" CONCRETE CRADLE
PLAIN CONC. LF 2.8
REINF. CONC. LF 3.4 P=0.4%

N.T.S



CLASS "A-1"

CLASS "B" CONCRETE CAP
PLAIN CONC. LF 2.8
REINF. CONC. LF 3.4 P=0.4%
REINF. CONC. LF 4.8 P=1.0%

N.T.S

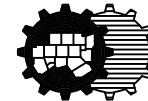
NOTES:

1. LF. = LOAD FACTOR TO BE USED TO DETERMINE 3 EDGE BEARING BASED ON TYPE OF EMBEDMENT.
2. FREE-FALL OF CONCRETE NOT TO EXCEED 5 FT. MAXIMUM.
3. P = Rho FOR STEEL %
4. Bc = OUTSIDE DIAMETER OF PIPE
5. Bd = TRENCH WIDTH
6. USE OF 95% DENSITY UNDER PAVED SURFACE AND 90% IN UNPAVED AREAS

EMBEDMENT

CLASS "A" & "A-1"

North Central Texas Council of Governments

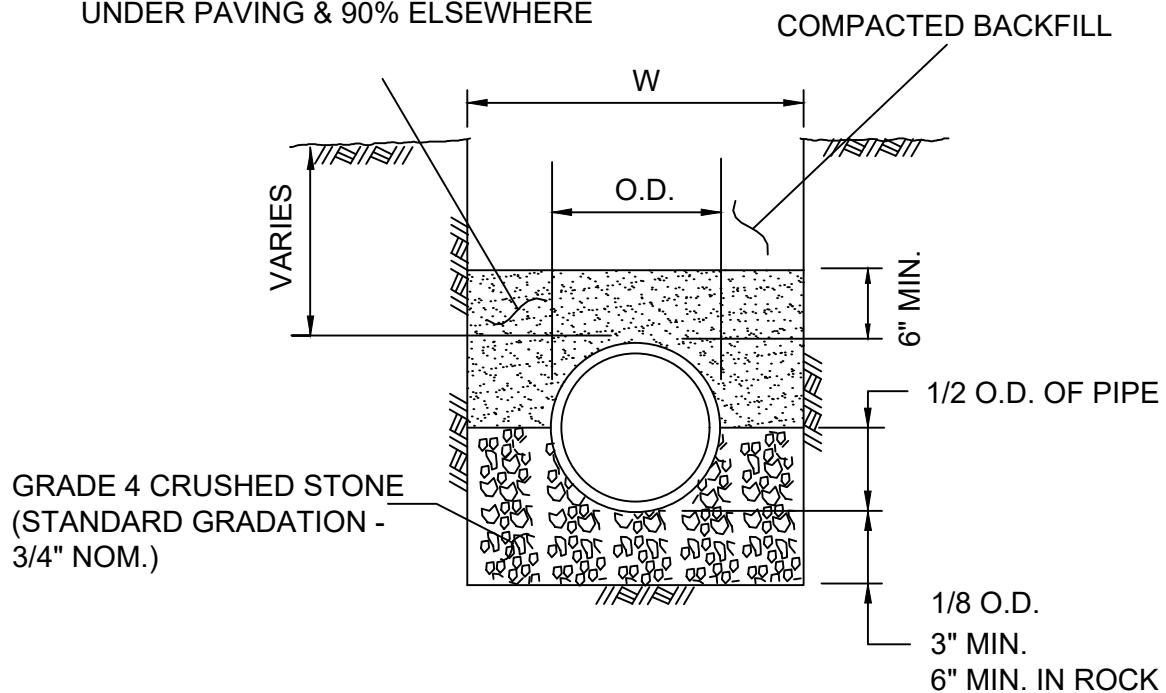


STANDARD SPECIFICATION REFERENCE

504.5

DATE: AUG '23
STANDARD DRAWING NO. 3010

TYPE "B" BACKFILL PER NCTCOG
 504.2.3.3 (4TH ed.) COMPACTED TO
 95% STANDARD PROCTOR DENSITY
 UNDER PAVING & 90% ELSEWHERE



NOTES:

1. THE DEPTH OF TRENCH BELOW PIPE ARE AS FOLLOWS:
 3" MIN. FOR 27" PIPE & SMALLER
 4" MIN. FOR 30" TO 60" PIPE
 6" MIN. FOR 66" PIPE & LARGER
2. O.D. = OUTSIDE DIAMETER OF PIPE.
3. W = TRENCH WIDTH = O.D. PLUS 24" FOR PIPE GREATER THAN 24"
 AND O.D. PLUS 16" FOR PIPE 24" AND SMALLER.

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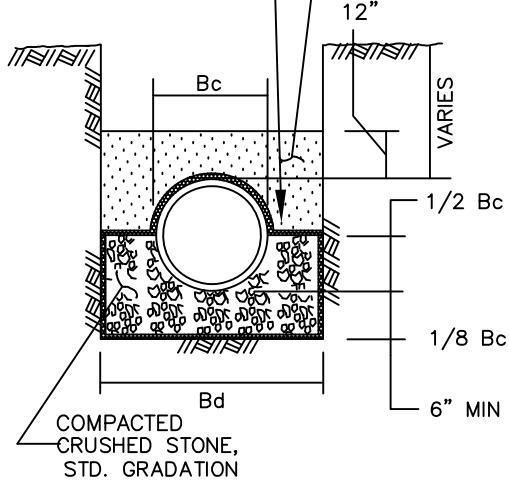
STORM SEWER PIPE BEDDING DETAIL
 CITY OF MELISSA



NCTCOG STANDARD SPECIFICATION REFERENCE
 504
 DATE 02/02/10 STANDARD DRAWING NO.
 3010AM*

SELECT OR GRANULAR MATERIAL COMPACTED TO 90% OF STD. PROCTOR DENSITY SEE NOTE 3

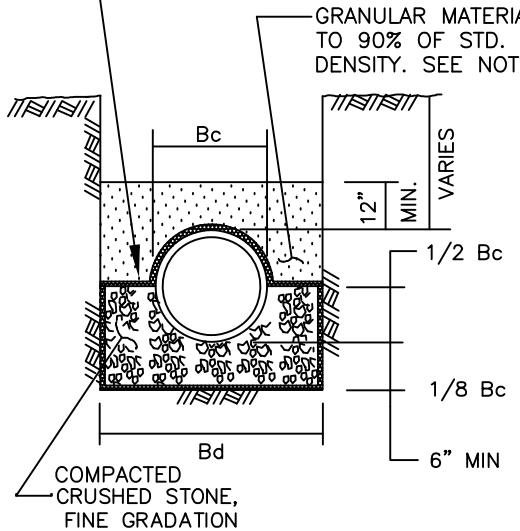
COVER EMBEDMENT
WITH FILTER
FABRIC/GEOTEXTILE AS
REQUIRED BY OWNER



CLASS "B"

N.T.S.

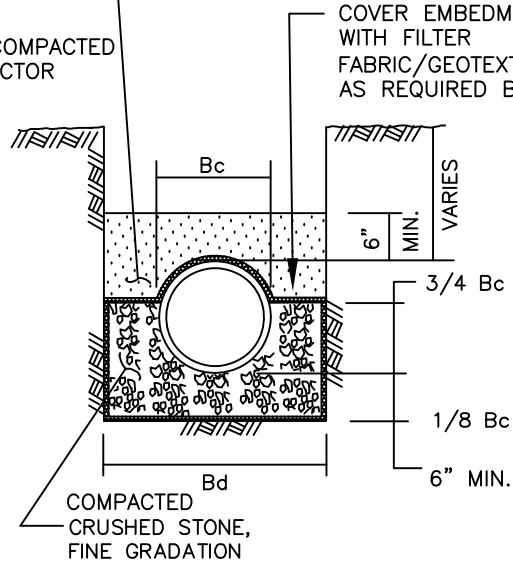
COVER EMBEDMENT
WITH FILTER FABRIC/GEOTEXTILE
AS REQUIRED BY OWNER



CLASS "B+"

N.T.S.

COVER EMBEDMENT
WITH FILTER
FABRIC/GEOTEXTILE
AS REQUIRED BY OWNER



CLASS "B-1"

N.T.S.

NOTES:

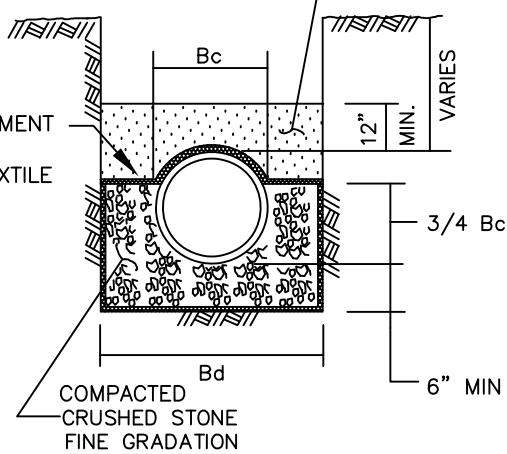
1. B_c = OUTSIDE DIAMETER OF PIPE
2. B_d = TRENCH WIDTH
3. USE 95% DENSITY UNDER PAVED SURFACE AND 90% IN UNPAVED AREAS

STANDARD
DRAWING NO.
3020

EMBEDMENT		North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE	
CLASS "B", "B+", & "B-1"			504.5	
DATE	STANDARD DRAWING NO.		AUG '23	3020

COMPACTED SELECT OR GRANULAR
MATERIAL COMPACTED TO 90% OF
STD. PROCTOR DENSITY
SEE NOTE 3

COVER EMBEDMENT
WITH FILTER
FABRIC/GEOTEXTILE

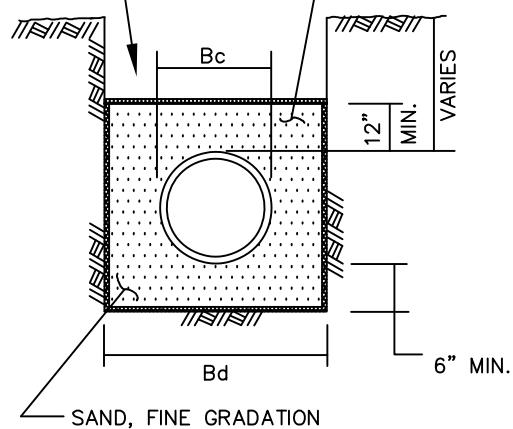


CLASS "B-2"

N.T.S.

COVER EMBEDMENT
WITH FILTER
FABRIC/GEOTEXTILE
AS REQUIRED BY OWNER

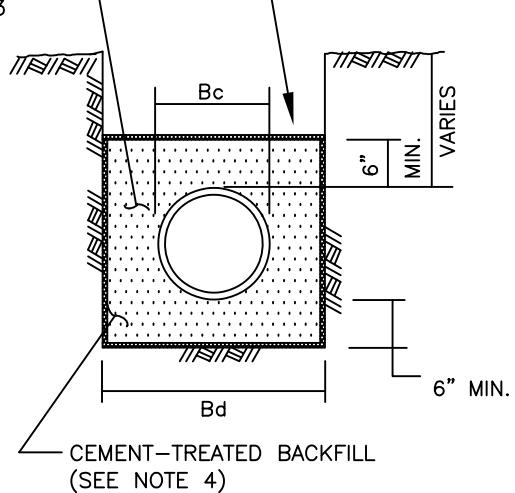
SAND COMPACTED TO
90% OF STD.
PROCTOR DENSITY
SEE NOTE 3



CLASS "B-3"

N.T.S.

COVER EMBEDMENT
WITH FILTER
FABRIC/GEOTEXTILE
AS REQUIRED BY OWNER



CLASS "B-4"

N.T.S.

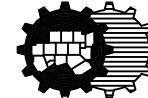
NOTES:

1. Bc = OUTSIDE DIAMETER OF PIPE
2. Bd = TRENCH WIDTH
3. USE 95% DENSITY UNDER PAVED SURFACE AND 90% IN UNPAVED AREAS
4. REFER TO 504.6.2

3030
STANDARD DRAWING NO.

EMBEDMENT
CLASS "B-2", "B-3", & "B-4"

North Central Texas Council of Governments

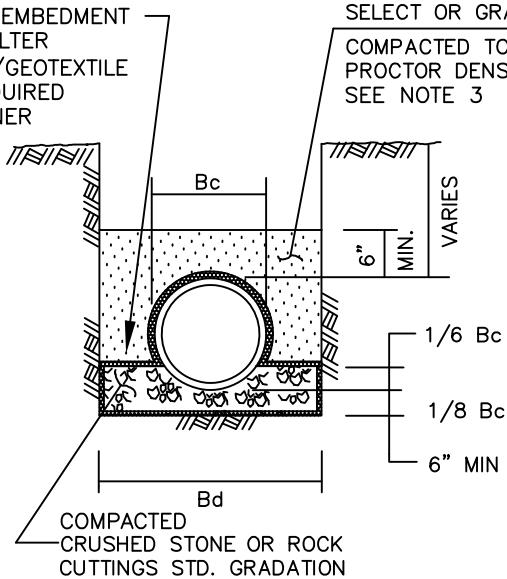


STANDARD SPECIFICATION REFERENCE
504.5

DATE
AUG '23

STANDARD DRAWING
3030

COVER EMBEDMENT
WITH FILTER
FABRIC/GEOTEXTILE
AS REQUIRED
BY OWNER

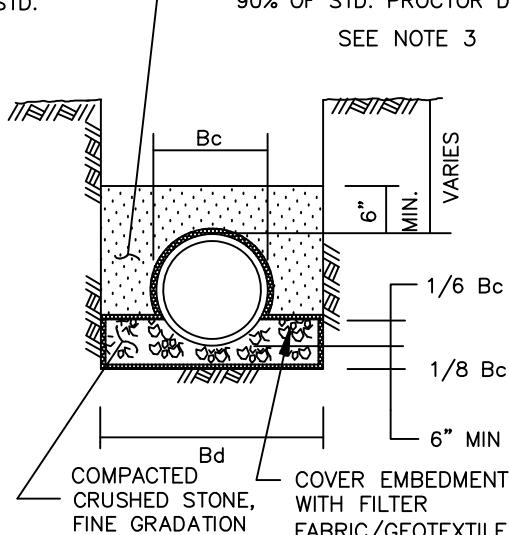


CLASS "C"

N.T.S.

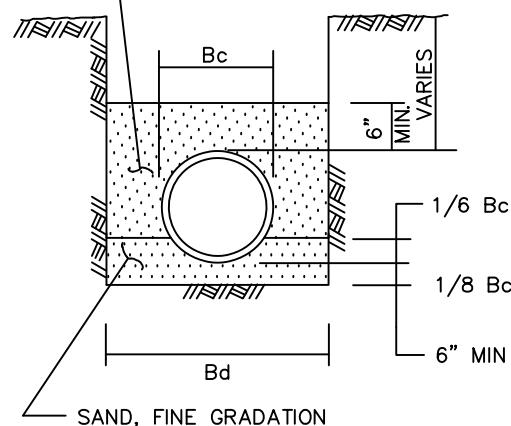
SELECT OR GRANULAR MATERIAL
COMPACTED TO 90% STD.
PROCTOR DENSITY
SEE NOTE 3

GRANULAR MATERIAL COMPACTED TO
90% OF STD. PROCTOR DENSITY
SEE NOTE 3



CLASS "C+"

N.T.S.



CLASS "C-1"

N.T.S.

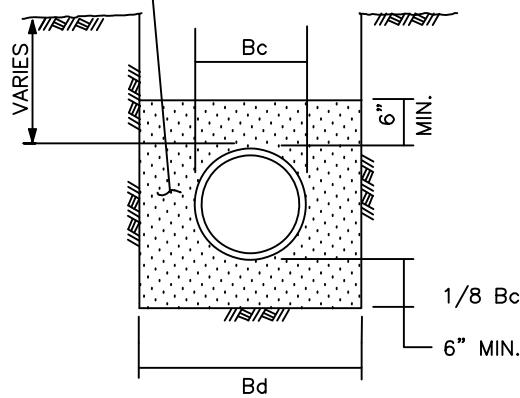
NOTES:

1. B_c = OUTSIDE DIAMETER OF PIPE
2. B_d = TRENCH WIDTH
3. USE 95% DENSITY UNDER PAVED SURFACE AND 90% IN UNPAVED AREAS

STANDARD DRAWING NO. 3040

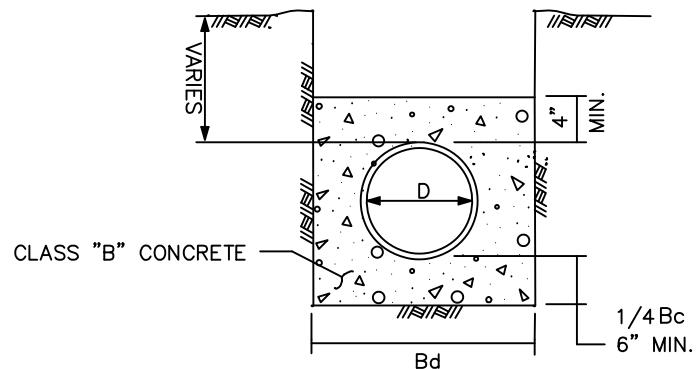
EMBEDMENT		North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE	
CLASS "C", "C+", & "C-1"			504.5	
DATE	STANDARD DRAWING NO.	AUG '23		3040

SELECT OR GRANULAR METERIAL
COMPACTED TO 90°
STD. PROCTOR DENSITY.
SEE NOTE 4



CLASS "D+"

N.T.S.



CLASS "G"

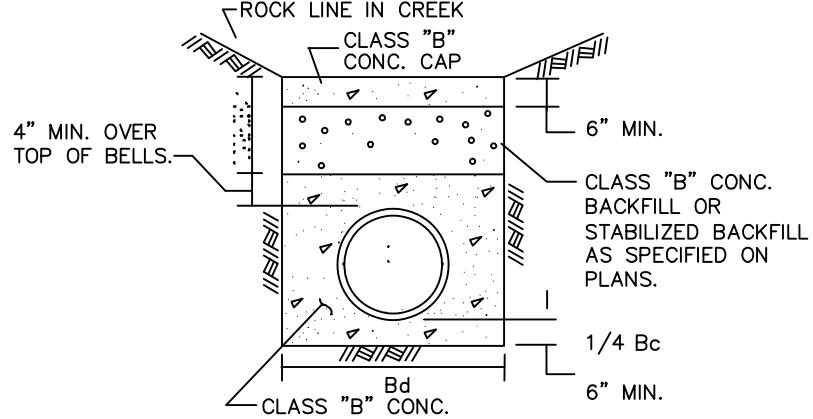
N.T.S.

NOTES:

1. B_c = OUTSIDE DIAMETER OF PIPE
2. B_d = TRENCH WIDTH
3. D = INSIDE DIAMETER OF PIPE
4. USE 95% DENSITY UNDER PAVED SURFACE AND 90% IN UNPAVED AREAS

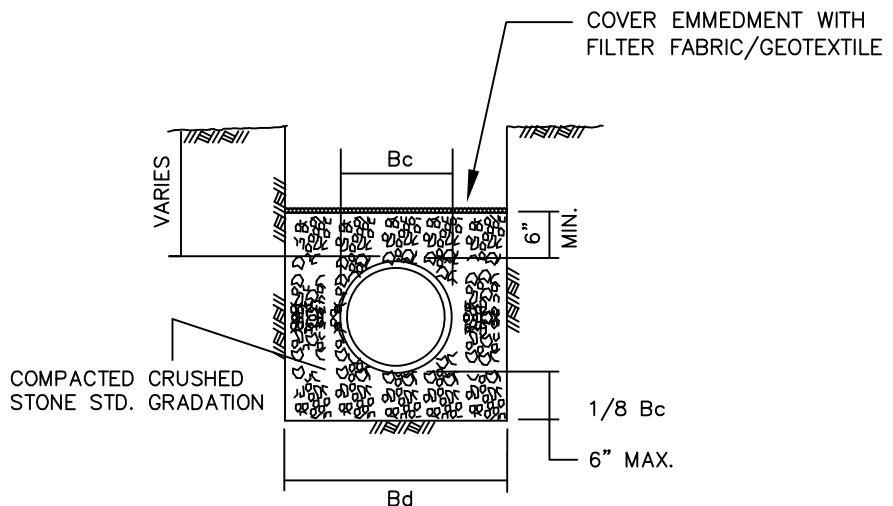
STANDARD DRAWING NO
3050

EMBEDMENT		North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE	
CLASS "D+" & "G"			504.5	
DATE	STANDARD DRAWING NO.			
AUG '23	3050			



CLASS "G-1"

N.T.S.



CLASS "H"

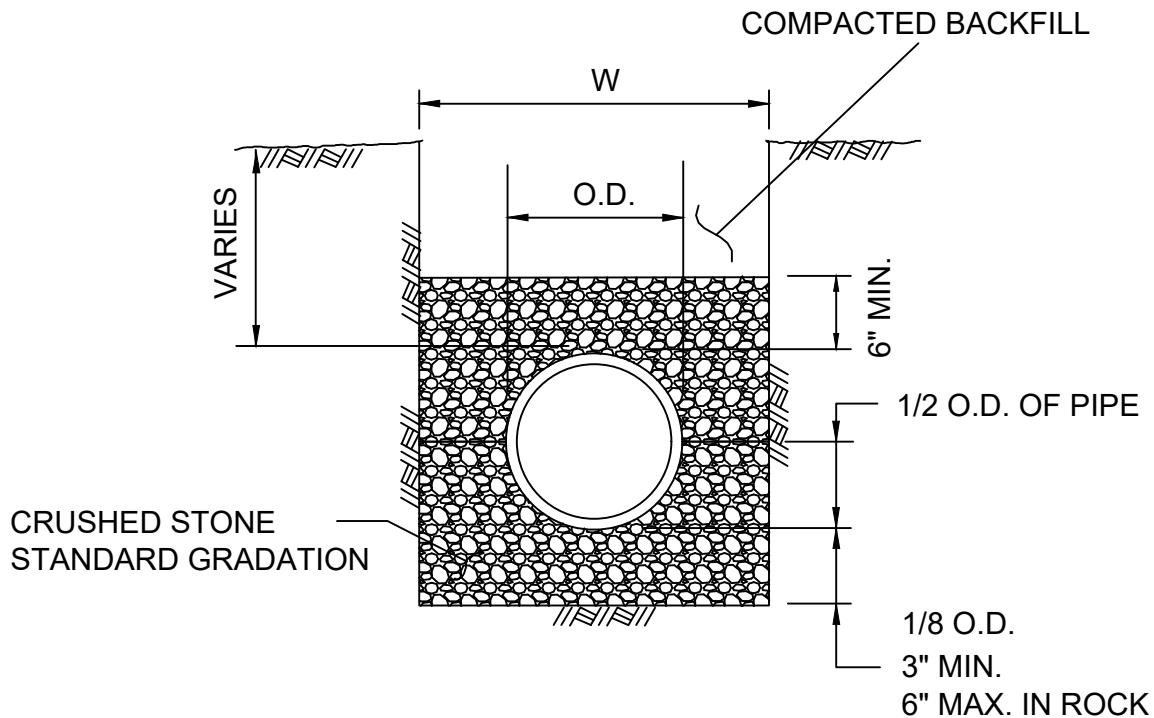
N.T.S.

NOTES:

1. Bc = OUTSIDE DIAMETER OF PIPE
2. Bd = TRENCH WIDTH
3. D = INSIDE DIAMETER OF PIPE
4. USE 95% DENSITY UNDER PAVED SURFACE AND 90% IN UNPAVED AREAS

2060
STANDARD DRAWING NO.

EMBEDMENT		North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE	
CLASS "G-1" & "H"			504.5	
DATE	AUG '23	STANDARD DRAWING NO.	3060	



NOTES:

1. CLASS H EMBEDMENT ACCEPTABLE FOR STANDARD P.V.C. SEWER INSTALLATION. STANDARD P.V.C., R.C.C.P., AND DUCTILE IRON WATER LINE INSTALLATION.
2. O.D. = OUTSIDE DIAMETER OF PIPE.
3. W = TRENCH WIDTH.

WIDTH OF TRENCH SHALL BE 24 INCHES PLUS O.D. FOR PIPE GREATER THAN 24 INCHES IN DIAMETER AND O.D. PLUS SIXTEEN INCHES FOR PIPE LESS THAN OR EQUAL TO 24 INCHES I.D.

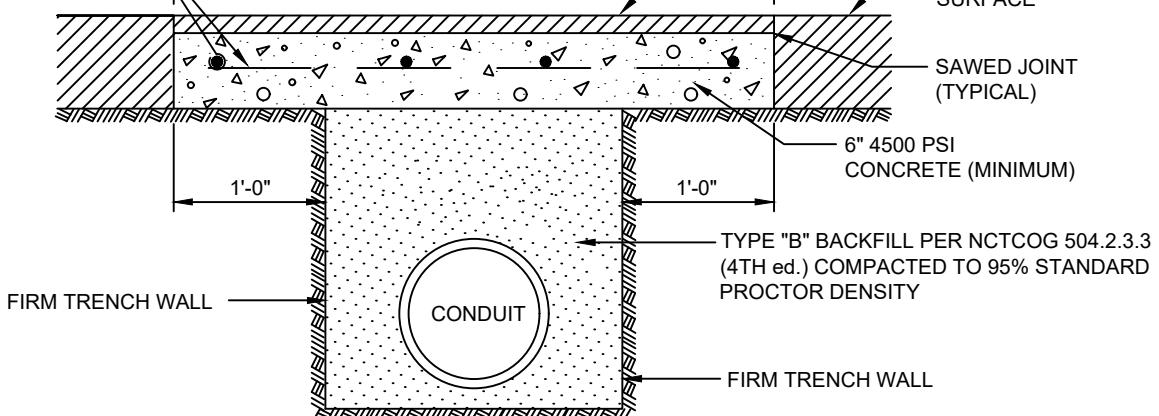
M* - CITY OF MELISSA REVISION

CLASS H EMBEDMENT		NCTCOG STANDARD SPECIFICATION REFERENCE 504	
CITY OF MELISSA		DATE 07/20/09	STANDARD DRAWING NO. 3061M*

#3 BARS AT 18" C/C
EACH WAY UNLESS
OTHERWISE SPECIFIED
BY OWNER.

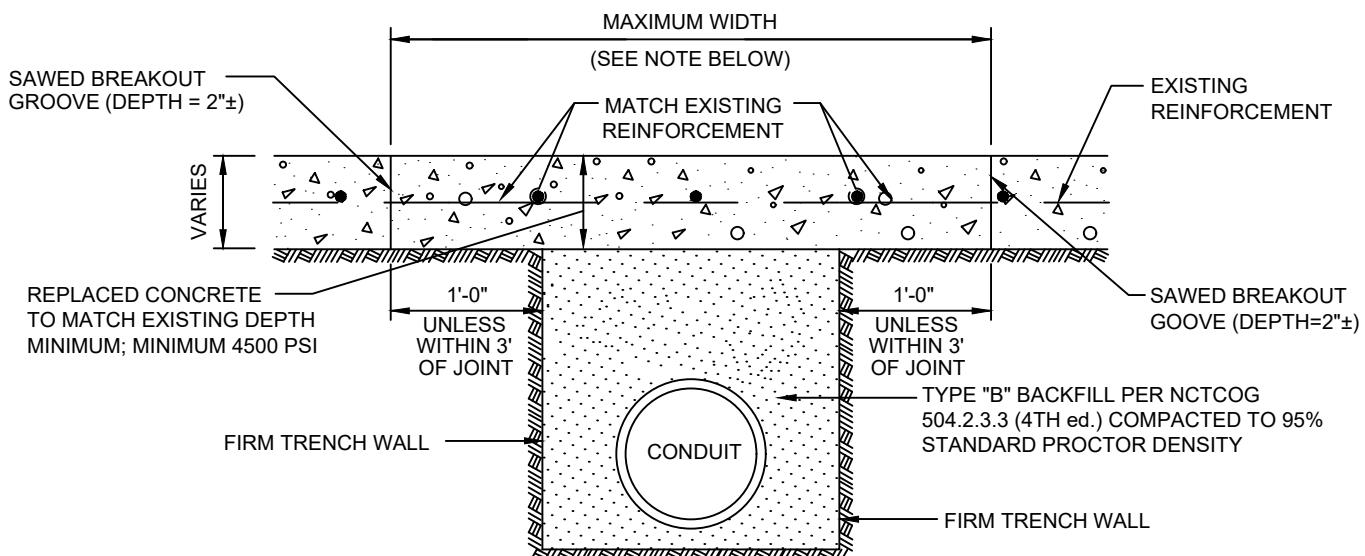
MAXIMUM WIDTH
(SEE NOTE BELOW)

1 1/2" HOT MIX ASPHALTIC
WEARING SURFACE ON
ON TACK COAT



ASPHALT PAVEMENT

N.T.S.



CONCRETE PAVEMENT

N.T.S.

NOTES:

- PAYMENT TO THE CONTRACTOR FOR REPLACEMENT OF PAVEMENT AND/OR DRIVEWAYS WILL BE BASED ON ACTUAL MEASUREMENTS UP TO A MAXIMUM WIDTH EQUAL TO THE SPECIFIED MAXIMUM TRENCH WIDTH PLUS 2 FEET. ANY EXISTING PAVEMENT DAMAGED OR REMOVED IN EXCESS OF THE MAXIMUM LIMITS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- WHEN REMOVING CONCRETE PAVEMENT THE CONTRACTOR SHALL ENDEAVOR TO LIMIT DAMAGE TO EXISTING REINFORCEMENT SO IT MAY BE EMPLOYED IN THE REPLACEMENT OPERATION. IF ORIGINAL REINFORCEMENT IS CUT OR BROKEN, REPLACEMENT BARS OF THE SAME SIZE SHALL BE INSTALLED BY DRILLING AND DOWELLING AS DIRECTED BY THE OWNER.

M* - CITY OF MELISSA REVISION

PAVEMENT CUTS REMOVAL & REPLACEMENT

CITY OF MELISSA

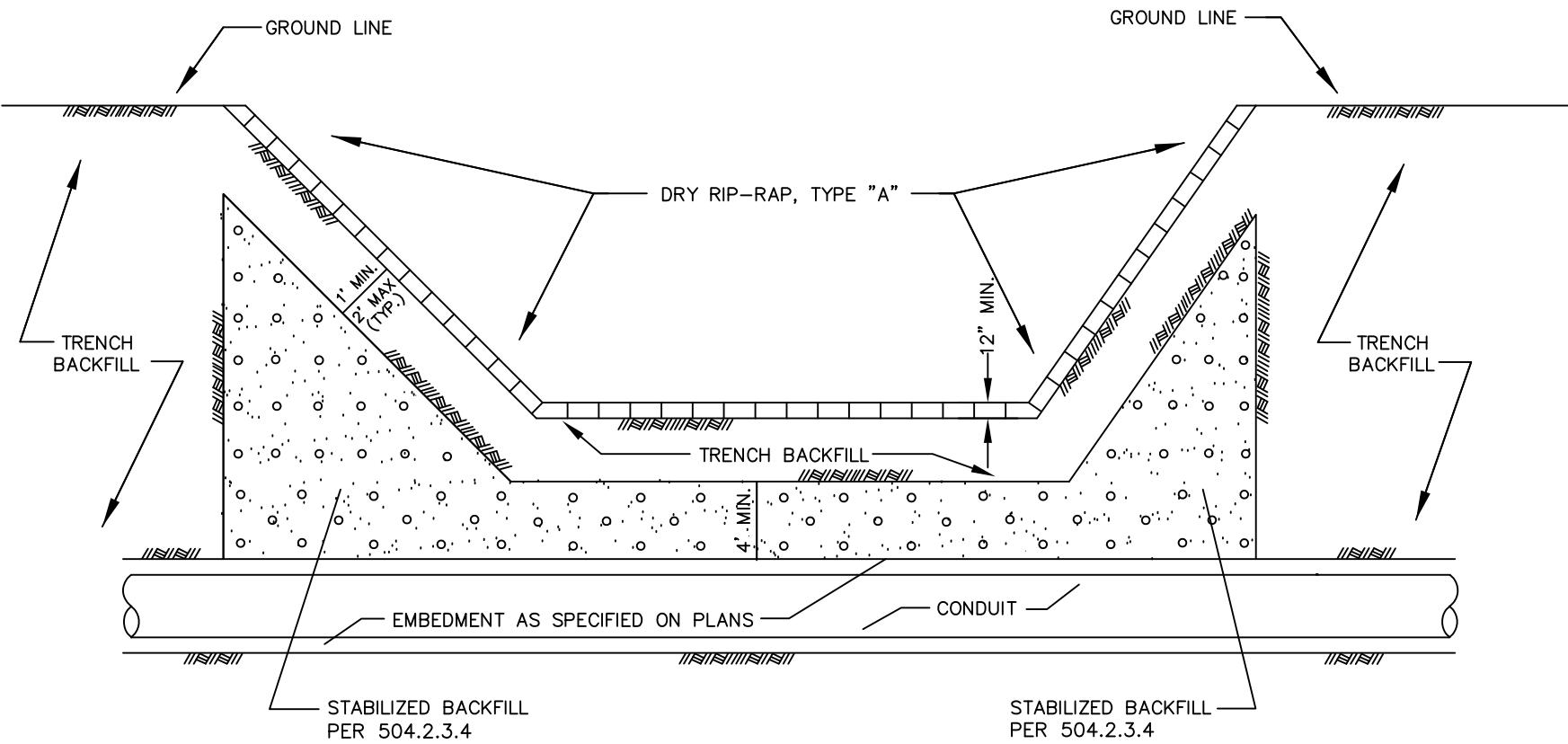


NCTCOG STANDARD SPECIFICATION REFERENCE

402 & 403

ENFORCED DATE
09/01/19

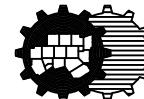
STANDARD DRAWING NO.
3070M*



STANDARD
DRAWING NO.
3080

INFILTRATION PROTECTION
CONDUIT UNDER CHANNEL

North Central Texas Council of Governments



STANDARD SPECIFICATION REFERENCE
504; 803

DATE
AUG '23

STANDARD DRAWING NO.
3080