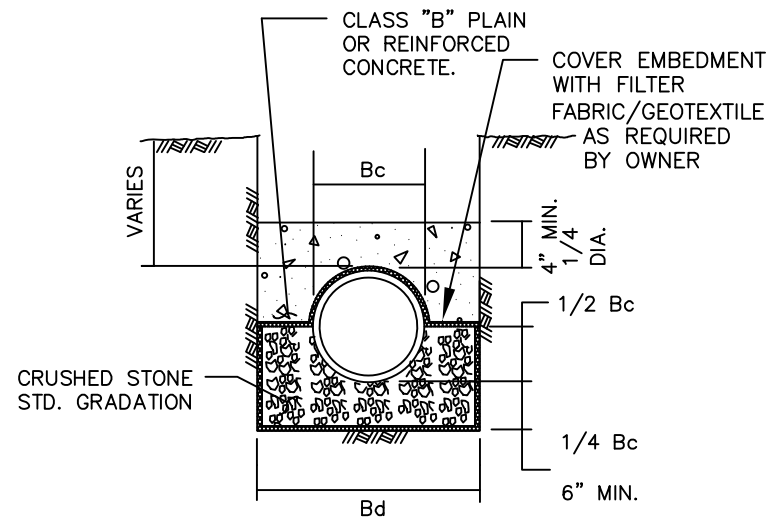


CLASS "A"

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

STANDARD DRAWING NO.
3010

EMBEDMENT

CLASS "A" & "A-1"

North Central Texas Council of Governments



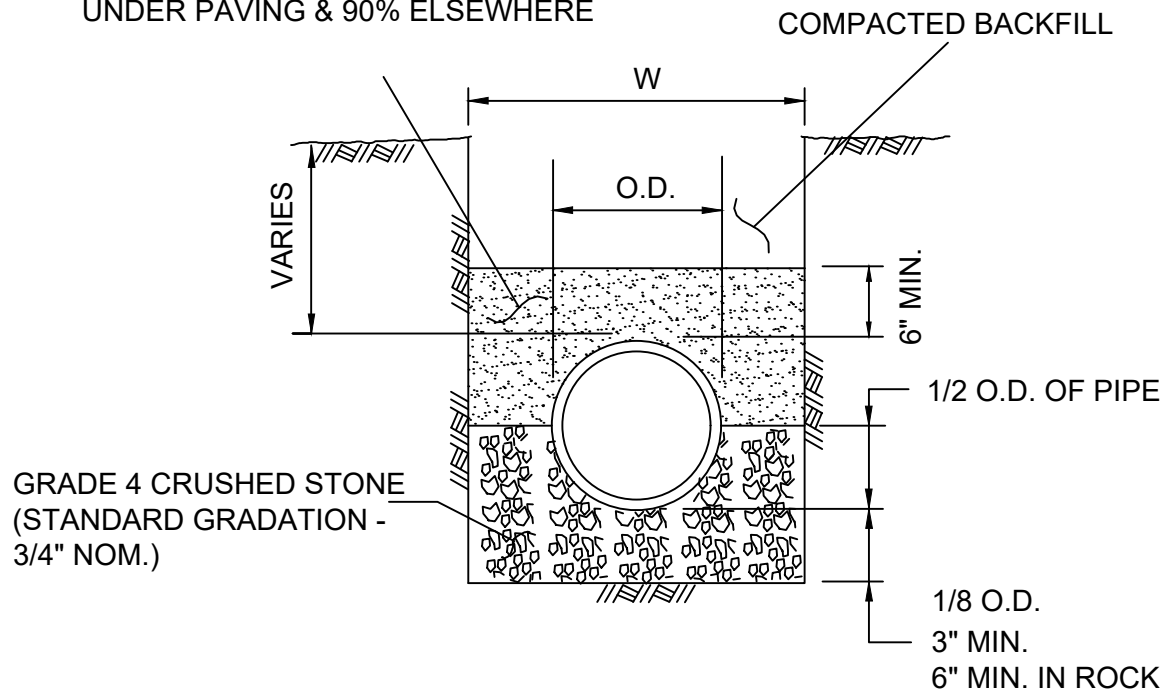
STANDARD SPECIFICATION REFERENCE

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.

M* - CITY OF MELISSA REVISION

STORM SEWER PIPE BEDDING DETAIL

CITY OF MELISSA



NCTCOG STANDARD SPECIFICATION REFERENCE

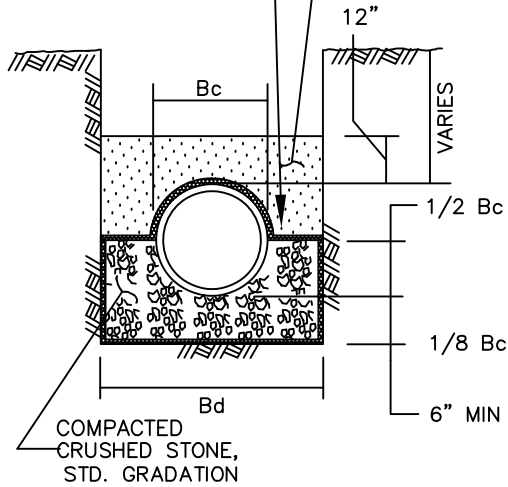
504

DATE
02/02/10

STANDARD DRAWING NO.
3010AM*

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

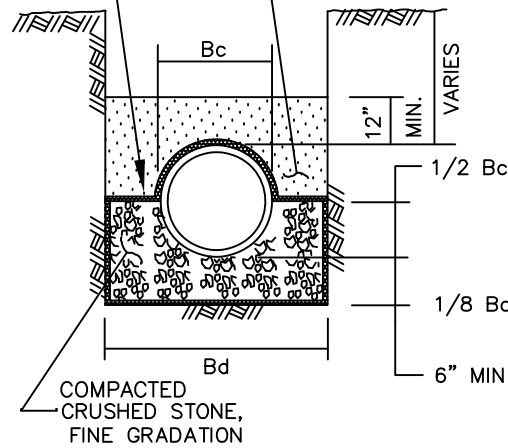
COVER EMBEDMENT
WITH FILTER
FABRIC/GEOTEXTILE AS
REQUIRED BY OWNER



CLASS "B"
N.T.S.

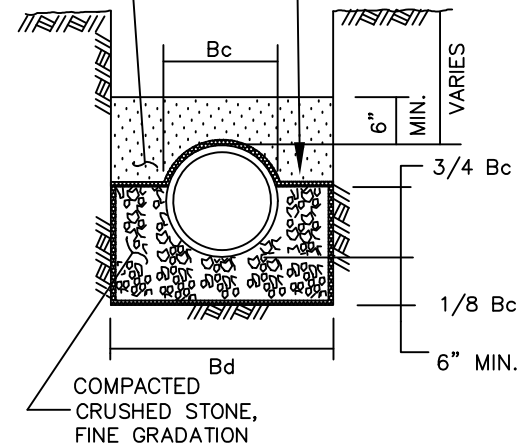
COVER EMBEDMENT
WITH FILTER FABRIC/GEOTEXTILE
AS REQUIRED BY OWNER

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



CLASS "B+"
N.T.S.

COVER EMBEDMENT
WITH FILTER
FABRIC/GEOTEXTILE
AS REQUIRED BY OWNER



CLASS "B-1"
N.T.S.

NOTES:

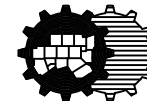
1. Bc = OUTSIDE DIAMETER OF PIPE
2. Bd = TRENCH WIDTH
3. USE 95% DENSITY UNDER PAVED SURFACE AND 90% IN UNPAVED AREAS

STANDARD DRAWING NO.
3020

EMBEDMENT

CLASS "B", "B+", & "B-1"

North Central Texas Council of Governments



STANDARD SPECIFICATION REFERENCE

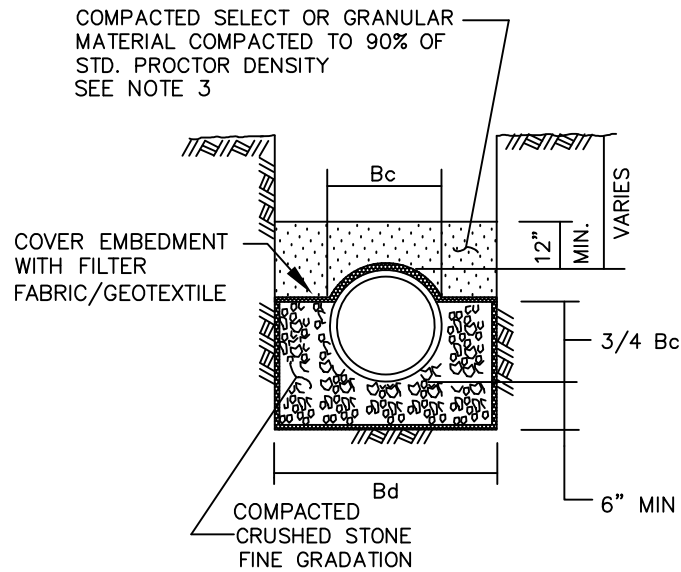
504.5

DATE

AUG '23

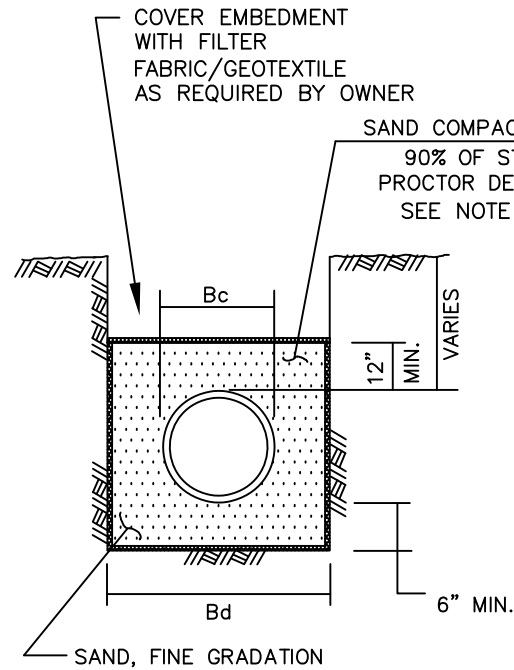
STANDARD DRAWING NO.

3020



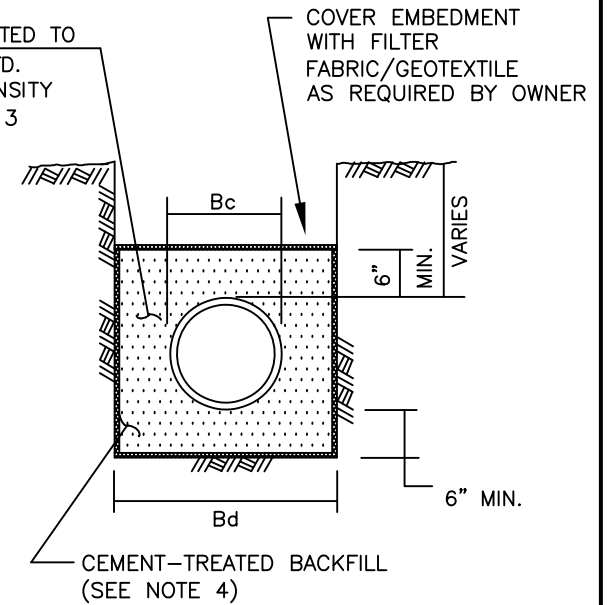
CLASS "B-2"

N.T.S.



CLASS "B-3"

N.T.S.



CLASS "B-4"

N.T.S.

NOTES:

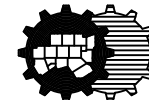
1. Bc = OUTSIDE DIAMETER OF PIPE
2. Bd = TRENCH WIDTH
3. USE 95% DENSITY UNDER PAVED SURFACE AND 90% IN UNPAVED AREAS
4. REFER TO 504.6.2

STANDARD DRAWING NO.
3030

EMBEDMENT

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

North Central Texas Council of Governments



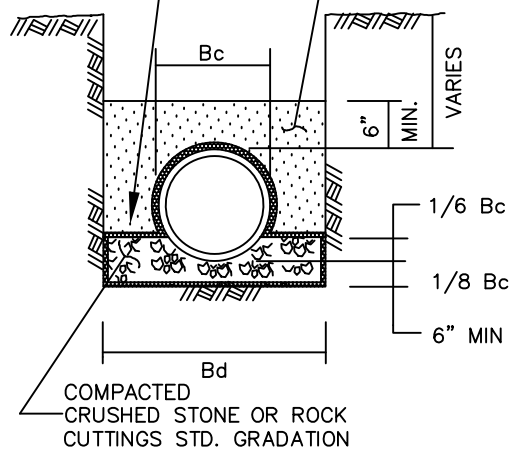
STANDARD SPECIFICATION REFERENCE

504.5

DATE
AUG '23

STANDARD DRAWING
3030

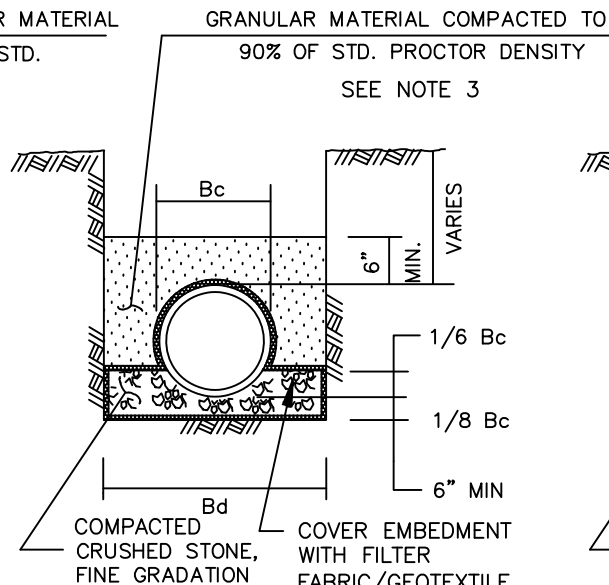
COVER EMBEDMENT
WITH FILTER
FABRIC/GEOTEXTILE
AS REQUIRED
BY OWNER



CLASS "C"

N.T.S.

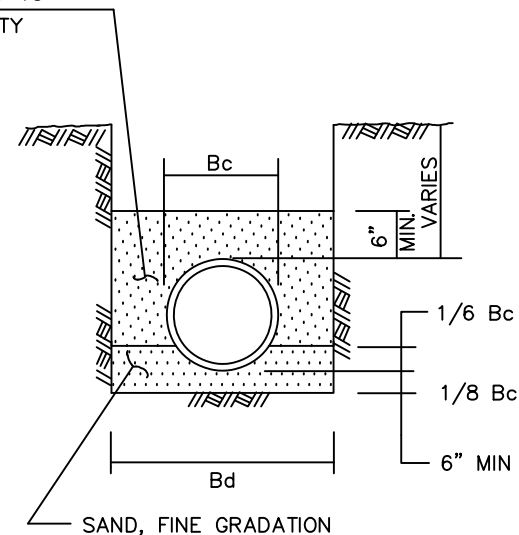
SELECT OR GRANULAR MATERIAL
COMPACTED TO 90% STD.
PROCTOR DENSITY
SEE NOTE 3



CLASS "C+"

N.T.S.

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



CLASS "C-1"

N.T.S.

NOTES:

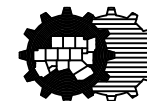
1. Bc = OUTSIDE DIAMETER OF PIPE
2. Bd = TRENCH WIDTH
3. USE 95% DENSITY UNDER PAVED SURFACE AND 90% IN UNPAVED AREAS

STANDARD DRAWING NO.
3040

EMBEDMENT

CLASS "C", "C+", & "C-1"

North Central Texas Council of Governments

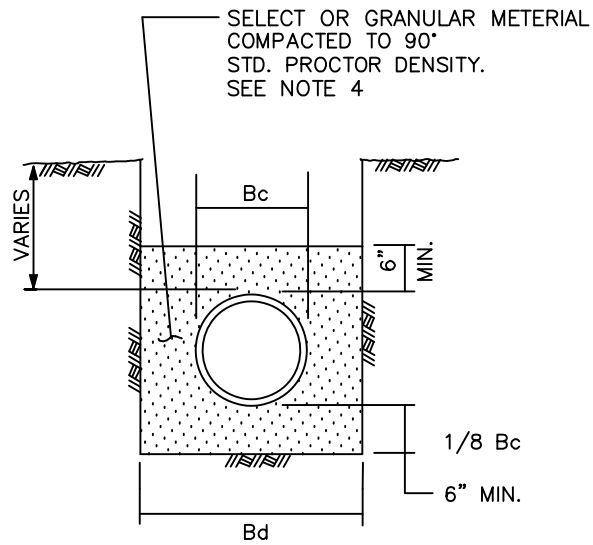


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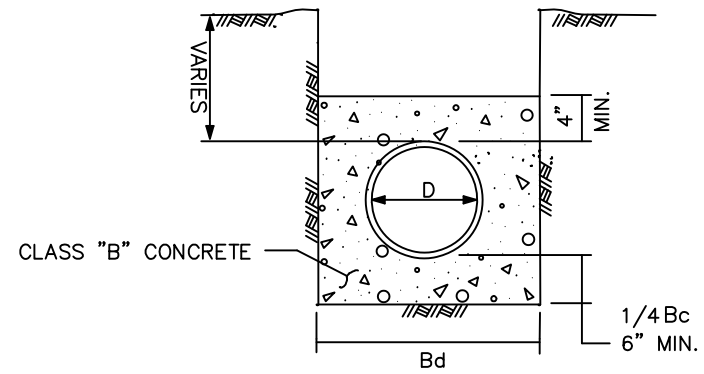
504.5

DATE
AUG '23

STANDARD DRAWING NO.
3040



CLASS "D+"
N.T.S.



CLASS "G"
N.T.S.

NOTES:

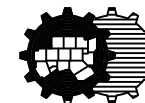
1. Bc = OUTSIDE DIAMETER OF PIPE
2. Bd = TRENCH WIDTH
3. D = INSIDE DIAMETER OF PIPE
4. USE 95% DENSITY UNDER PAVED SURFACE AND 90% IN UNPAVED AREAS

STANDARD DRAWING NO.
3050

EMBEDMENT

CLASS "D+" & "G"

North Central Texas Council of Governments



STANDARD SPECIFICATION REFERENCE

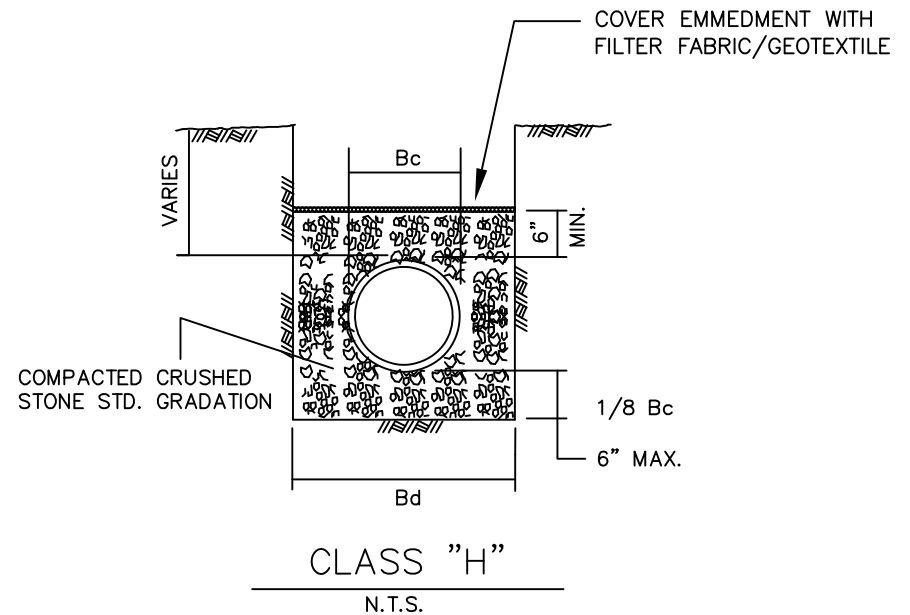
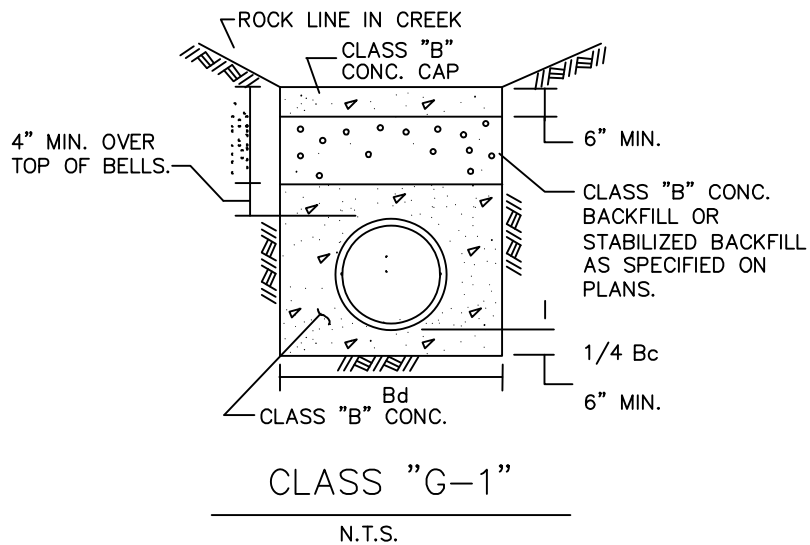
504.5

DATE

AUG '23

STANDARD DRAWING NO.

3050



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.
3060

EMBEDMENT

CLASS "G-1" & "H"

North Central Texas Council of Governments



STANDARD SPECIFICATION REFERENCE

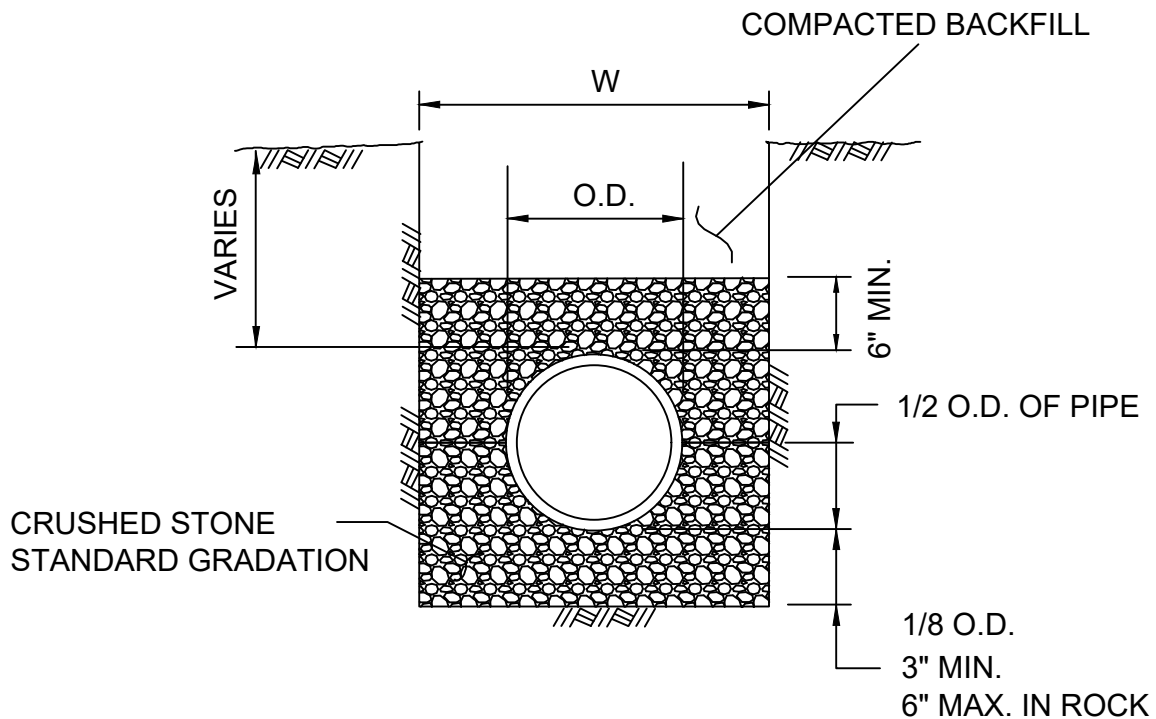
504.5

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

CITY OF MELISSA



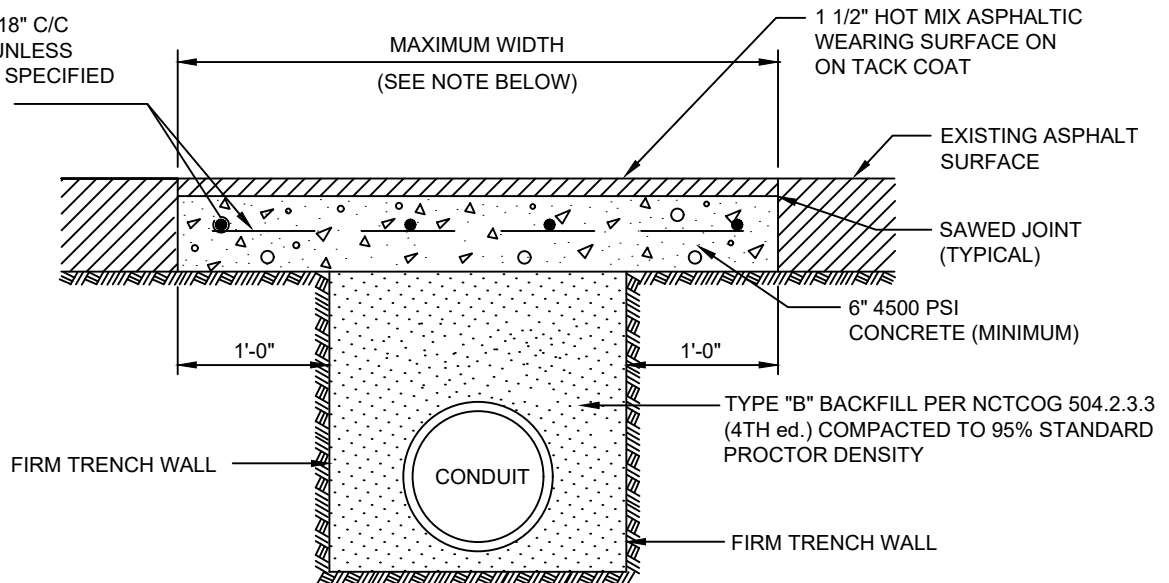
NCTCOG STANDARD SPECIFICATION REFERENCE

504

DATE
07/20/09

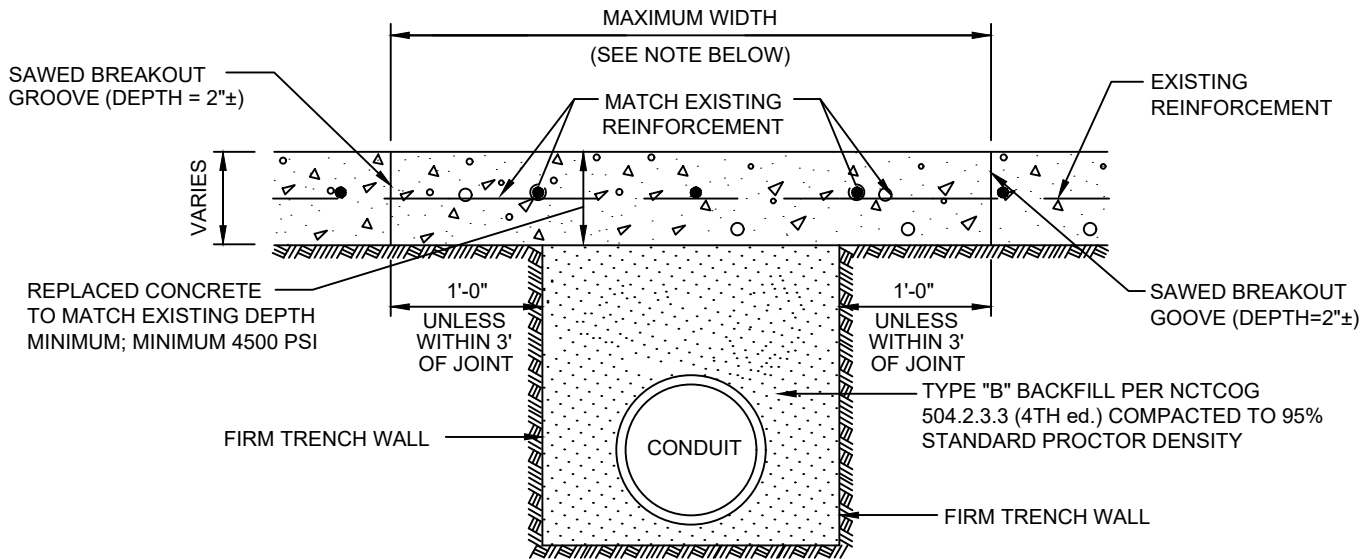
STANDARD DRAWING NO.
3061M*

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



ASPHALT PAVEMENT

N.T.S.



CONCRETE PAVEMENT

N.T.S.

NOTES:

1. 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.
2. 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

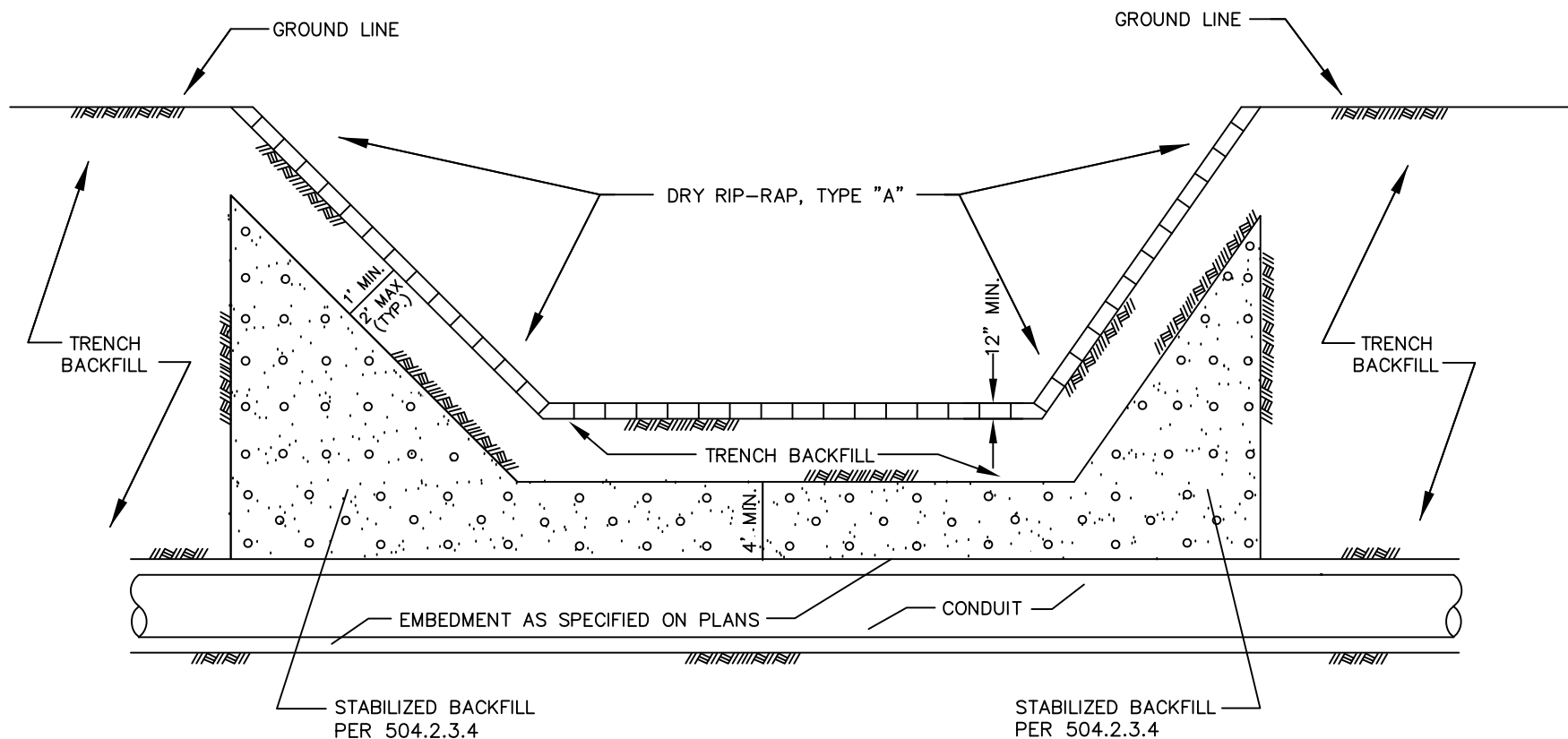
402 & 403

ENFORCED DATE

09/01/19

STANDARD DRAWING NO.

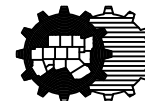
3070M*



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