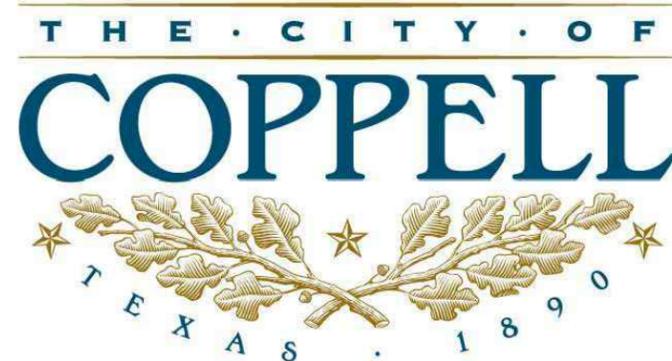


CITY OF COPPELL

DALLAS / DENTON COUNTY, TEXAS



STANDARD CONSTRUCTION DETAILS

REVISED JULY 01, 2014

CITY OF COPPELL ORDINANCE # 2006-1129

GENERAL NOTES

1. THESE STANDARD CONSTRUCTION DETAIL DRAWINGS ARE BASED ON THE STANDARD DRAWINGS PUBLISHED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) IN 1996. IN ADDITION TO NUMEROUS LOCAL EXCEPTIONS, MANY DETAILS IN THIS SET ARE UNIQUE TO THE CITY OF COPPELL. THESE STANDARD CONSTRUCTION DETAIL DRAWINGS SUPERSEDE ALL OTHER VERSIONS OF NCTCOG AND CITY OF COPPELL STANDARD CONSTRUCTION DETAILS. THE CITY OF COPPELL RESERVES THE RIGHT TO UPDATE, MODIFY OR SUPERSEDE THESE STANDARD CONSTRUCTION DETAIL DRAWINGS WITHOUT NOTICE. THE CITY OF COPPELL RESERVES THE RIGHT TO REQUIRE METHODS AND MATERIALS CONTRADICTORY TO THOSE SHOWN IN THESE DETAILS ON A CASE BY CASE BASIS.
2. THE CITY OF COPPELL HAS ADOPTED THE "Standard Specifications for Public Works Construction", 4TH EDITION, AS ITS BASIC CONSTRUCTION SPECIFICATIONS. THIS DOCUMENT IS AVAILABLE FOR PURCHASE FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG), 616 SIX FLAGS DR., SUITE 200, P.O. BOX 5888, ARLINGTON TEXAS 76005-5888, PH. 817/640-3300, nctcog.org. THE CITY OF COPPELL RESERVES THE RIGHT TO MAKE LOCAL EXCEPTIONS TO ANY STANDARD SPECIFICATION.
3. WHERE THE STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS DO NOT ADDRESS A SPECIFIC ITEM ADEQUATELY, REFER TO THE APPROPRIATE STANDARDS PUBLISHED BY THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT), THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (T.M.U.T.C.D.), TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (T.C.E.Q.), TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (T.P.D.E.S.) GENERAL PERMIT, AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (A.A.S.H.T.O.), ASTM International AND THE ENVIRONMENTAL PROTECTION AGENCY (E.P.A).
4. LOCAL, STATE AND FEDERAL ORDINANCES WHICH REGULATE DEVELOPMENT IN THE CITY OF COPPELL ARE:
 - a. CITY OF COPPELL SUBDIVISION ORDINANCE.
 - b. CITY OF COPPELL FLOODPLAIN ORDINANCE.
 - c. CITY OF COPPELL IMPACT FEE ORDINANCE.
 - d. CITY OF COPPELL EROSION CONTROL ORDINANCE.
 - e. CITY OF COPPELL ZONING ORDINANCE.
 - f. CITY OF COPPELL RIGHT-OF-WAY MANAGEMENT ORDINANCE.
 - g. CITY OF COPPELL TREE ORDINANCE
 - h. CITY OF COPPELL NOISE ORDINANCE
 - i. CITY OF COPPELL CITY-WIDE STORM WATER MANAGEMENT STUDY
 - j. TEXAS ACCESSIBILITY STANDARDS (T.A.S.)
 - k. AMERICANS WITH DISABILITIES ACT (A.D.A.)



TABLE OF CONTENTS

Division 1000 EROSION & SEDIMENT CONTROL

1010	STRAW BALE DIKE
1020	SILT FENCE
1030	INTERCEPTOR SWALE
1040	DIVERSION DIKE
1050	TRIANGULAR SEDIMENT FILTER DIKE
1060	ROCK BERM
1070	STABILIZED CONSTRUCTION ENTRANCE
1080	SANDBAG BERM
1090	STONE OUTLET SEDIMENT TRAP
1100	SEDIMENT BASIN
1110	PIPE SLOPE DRAIN
1120	INLET PROTECTION <u>Grate Inlet Filter Barrier</u>
1130	INLET PROTECTION <u>Block and Gravel</u>
1135	INLET PROTECTION <u>Wattle Filter</u>
1140	INLET PROTECTION <u>Wire Mesh and Gravel</u>
1150	INLET PROTECTION <u>Excavated Impoundment</u>
1160	EROSION CONTROL MATTING

Division 2000 PAVEMENT SYSTEMS

2010	REINFORCED CONCRETE PAVEMENT <u>Six-Lane Divided Thoroughfare</u>
2020	REINFORCED CONCRETE PAVEMENT <u>Four-Lane Divided Thoroughfare</u>
2025	REINFORCED CONCRETE PAVEMENT <u>Dedicated Left Turn Lane</u>
2030	REINFORCED CONCRETE PAVEMENT <u>2- & 4-Lane Undivided Thoroughfare</u>
2035	REINFORCED CONCRETE PAVEMENT <u>28' B-B Residential Street</u>
2040	REINFORCED CONCRETE PAVEMENT <u>Alleys</u>
2050	REINFORCED CONCRETE PAVEMENT <u>Pavement Joints</u>
2060	REINFORCED CONCRETE PAVEMENT <u>Transverse Joint Spacing</u>
2070	REINFORCED CONCRETE PAVEMENT <u>Street Headers</u>
2080	NOT USED

Division 2000 PAVEMENT SYSTEMS Continued...

2090	NOT USED	2195	PAVEMENT SYSTEMS GENERAL NOTES
2100	NOT USED	2200	SUBDRAINS <u>Pavement Subgrade</u>
2110	HOT MIX ASPHALTIC CONCRETE PAVEMENT <u>Two-Lane Undivided Thoroughfare</u>	2210	ALLEY GEOMETRICS <u>Type "A" and Type "B"</u>
2120	CONCRETE CURB AND GUTTER <u>Integral and Separate</u>	2220	ALLEY GEOMETRICS <u>Type "C" and Type "D"</u>
2130	MEDIAN ISLAND PAVEMENT <u>Left Turn Lane with Sloped Nose</u>	2230	ALLEY GEOMETRICS <u>Type "E" and Type "F"</u>
2140	MEDIAN ISLAND PAVEMENT <u>Median Island with Sloped Nose</u>	2240	ALLEY GEOMETRICS <u>Type "G" and Type "H"</u>
2150-1	DRIVEWAY APPROACH <u>Type "A"</u>	2250	ALLEY GEOMETRICS <u>Type "J"</u>
2150-2	DRIVEWAY APPROACH <u>Type "A"</u>	2260	ALLEY INTERSECTION <u>Proposed to Existing</u>
2155-1	DRIVEWAY APPROACH <u>Type "B"</u>	2270	GUARD RAIL AND BARRICADING NOTE
2155-2	DRIVEWAY APPROACH <u>Type "B"</u>	2280	TRAFFIC CONTROL NOTE
2160-1	ALLEY APPROACH <u>Radius Return Type</u>	2290	FIRE LANE AND PARKING LOT <u>Reinforced Concrete</u>
2160-2	ALLEY APPROACH <u>Radius Return Type</u>	2300	FIRE LANE AND PARKING LOT <u>Hot Mix Asphaltic Concrete</u>
2165-1	ALLEY APPROACH REPLACEMENT <u>Flared Type</u>	2310	FIRE LANE AND PARKING LOT <u>Type "A" and Type "B" Turnaround</u>
2165-2	ALLEY APPROACH REPLACEMENT <u>Flared Type</u>	2320	FIRE LANE AND PARKING LOT <u>Fire Lane Marking</u>
2170	REINFORCED CONCRETE SIDEWALK <u>Joints and Spacing</u>	2330	BOLLARD AND SIGN FOUNDATION
2180	REINFORCED CONCRETE RETAINING WALL <u>Integral with Sidewalk</u>	△ 2340	TRAFFIC SIGNALS <u>Collector Streets and Thoroughfares</u>
2185-1	ACCESSIBLE ROUTES, RAMPS AND CROSSWALKS <u>Collector Streets and Thoroughfares</u>	2350	PAVEMENT SYSTEMS TESTING REQUIREMENTS
2185-2	ACCESSIBLE ROUTES, RAMPS AND CROSSWALKS <u>Collector Streets and Thoroughfares</u>		
2185-3	ACCESSIBLE ROUTES, RAMPS AND CROSSWALKS <u>Residential Streets W/O R.O.W. Corner Clip</u>		
2185-4	ACCESSIBLE ROUTES, RAMPS AND CROSSWALKS <u>Residential Streets W/O R.O.W. Corner Clip</u>		
2185-5	ACCESSIBLE ROUTES, RAMPS AND CROSSWALKS <u>Residential Streets W/ R.O.W. Corner Clip</u>		
2185-6	ACCESSIBLE ROUTES, RAMPS AND CROSSWALKS <u>Residential Streets W/ R.O.W. Corner Clip</u>		
2190	COMMERCIAL DRIVEWAY DECORATIVE PAVING <u>Stamped Concrete / Concrete Paver Installation</u>		

TABLE OF CONTENTS

Division 3000 GENERAL UNDERGROUND CONDUIT

3010	EMBEDMENT <u>Class "A" and "A-1"</u>
3020	EMBEDMENT <u>Storm Drain</u>
3030	EMBEDMENT <u>Water Main</u>
3040	NOT USED
3050	EMBEDMENT <u>Sanitary Sewer</u>
3060	EMBEDMENT <u>Class "G" and "G-1"</u>
3070	PAVEMENT CUTS <u>Removal and Replacement</u>
3080	NOT USED
3090	ENCASEMENT <u>Roadway Crossing Bore</u>
3095	GENERAL UNDERGROUND CONDUIT <u>Irrigation Sleeving and Electrical Conduit</u>
3100	GENERAL UNDERGROUND CONDUIT <u>General Notes and Testing</u>

Division 4000 WATER DISTRIBUTION

4010-1	HORIZONTAL THRUST BLOCK <u>At Pipe Bend</u>
4010-2	HORIZONTAL THRUST BLOCK <u>At Pipe Bend</u>
4020	HORIZONTAL THRUST BLOCK <u>At Tees and Plugs</u>
4030	VERTICAL THRUST BLOCK <u>At Pipe Bend</u>
4040	THRUST BLOCK <u>General Notes</u>
4050	GATE VALVE 16" AND SMALLER <u>Installation</u>
4060-1	NOT USED
4060-2	NOT USED
4070-1	VAULT CONSTRUCTION <u>Vertical Gate Valve Larger than 16"</u>
4070-2	VAULT CONSTRUCTION <u>Vertical Gate Valve Larger than 16"</u>
4080	NOT USED

Division 4000 WATER DISTRIBUTION Continued...

4090	AIR RELEASE VALVE <u>Type 1</u>
4100-1	AIR RELEASE VALVE <u>Type 2</u>
4100-2	AIR RELEASE VALVE <u>Details</u>
4110	BLOW-OFF VALVE <u>Type 1</u>
4120	FIRE HYDRANT <u>Installation</u>
4130	METER SETTING <u>3/4" Meter - Residential Domestic</u>
4135	METER SETTING <u>3/4" Meter - Irrigation or Commercial Domestic</u>
4140	METER SETTING <u>1" Meter - Residential Domestic</u>
4145	METER SETTING <u>1" Meter - Irrigation or Commercial Domestic</u>
4150	METER SETTING <u>1-1/2" or 2" Meter - Domestic</u>
4155	METER SETTING <u>1-1/2" or 2" Meter - Irrigation</u>
4160	DETECTOR CHECK VALVE INSTALLATION <u>3" to 6" Service</u>
△ 4162	DOMESTIC AND IRRIGATION SERVICE INSTALLATION <u>3" to 6" Service</u>
4165	DETECTOR CHECK VALVE INSTALLATION <u>8" to 12" Service</u>
4170	FIRE DEPARTMENT CONNECTION (F.D.C.) <u>Located Outside Paving</u>
4175	FIRE DEPARTMENT CONNECTION (F.D.C.) <u>Located Inside Paving</u>
4180	BUILDING FIRE SPRINKLER SYSTEM <u>Connection to Private Water Main</u>
4190	DETECTOR CHECK VAULT <u>Pre-Cast Construction</u>
4195	DETECTOR CHECK VAULT <u>Cast-In-Place Construction</u>
4200	WATER MAIN ADJUSTMENT <u>at Storm Drain Crossing</u>
4210	WATER MAIN ADJUSTMENT <u>at Sanitary Sewer Crossing</u>
4220	VALVE LOCATION AND IDENTIFICATION <u>Curb Lettering and Color Coding</u>
△ 4225	WATER MAIN ABANDONMENT <u>Inside and Outside of Pavement</u>
4230	WATER DISTRIBUTION <u>Testing Requirements</u>

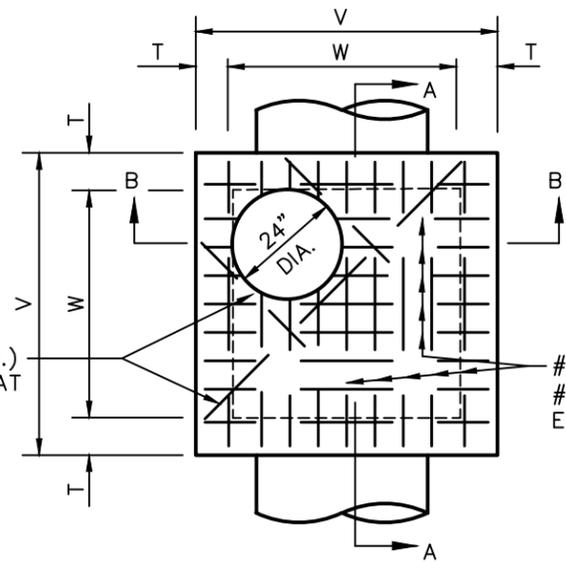
TABLE OF CONTENTS

Division 5000 SANITARY SEWER

5010	SANITARY SEWER <u>Main Tie-in at Cleanout or Stubout</u>
5020	SANITARY SEWER <u>Manhole: Pre-Cast</u>
5030	SANITARY SEWER <u>Manhole: Cast-in-Place</u>
5040	NOT USED
5050	SANITARY SEWER <u>Manhole: Pressure Type</u>
5060	SANITARY SEWER <u>Manhole: Vented Type</u>
5070	SANITARY SEWER <u>Manhole: Outside Drop Connection</u>
5080	SANITARY SEWER <u>Manhole: Inside Drop Connection</u>
5090	SANITARY SEWER <u>Manhole: Line Intersection</u>
5100	SANITARY SEWER <u>Manhole: False Bottom</u>
5105	SANITARY SEWER <u>Wastewater Access Device (W.A.D.)</u>
5110	SANITARY SEWER <u>Cleanout</u>
5120	SANITARY SEWER <u>Standard Service Connection</u>
5130	SANITARY SEWER <u>Deep Service Connection</u>
5140	SANITARY SEWER <u>Lateral Replacement Prior to Paving</u>
5150	SANITARY SEWER <u>Manhole Abandonment In and Out of Paving</u>
5160	SANITARY SEWER <u>Aerial Crossing</u>
5170	MANHOLE AND CLEANOUT LOCATION AND IDENTIFICATION <u>Curb Lettering and Color Coding</u>
5180	SANITARY SEWER <u>General Notes and Testing</u>

Division 6000 STORM DRAIN

6010	STORM DRAIN <u>Manhole 4', 5', or 6' Square</u>
6020-1	STORM DRAIN <u>Curb Inlet: 5', 10', 15' or 20' Opening</u>
6020-2	STORM DRAIN <u>Curb Inlet: 5', 10', 15' or 20' Opening</u>
6020-3	STORM DRAIN <u>Curb Inlet: Rebar, Manhole Frame and Cover</u>
6020-4	STORM DRAIN <u>Curb Inlet: Bill of Reinforcing Steel</u>
6020-5	STORM DRAIN <u>Curb Inlet: Summary of Quantities</u>
6030-1	STORM DRAIN <u>Recessed Curb Inlet: 5', 10', 15' or 20'</u>
6030-2	STORM DRAIN <u>Recessed Curb Inlet: 5', 10', 15' or 20'</u>
6030-3	STORM DRAIN <u>Recessed Curb Inlet: Throat and Manhole Cover</u>
6030-4	STORM DRAIN <u>Recessed Curb Inlet: General Notes</u>
6040	STORM DRAIN <u>Drop Inlet</u>
6050	STORM DRAIN <u>Gate Inlet</u>
6060	STORM DRAIN <u>Full Channel Lining</u>
6070	STORM DRAIN <u>Vertical Headwall</u>
6080	STORM DRAIN <u>Sloping Headwall</u>
△ 6085	STORM DRAIN <u>Pipe Collar and Field Connection</u>
6090	STORM DRAIN <u>General Notes and Testing</u>



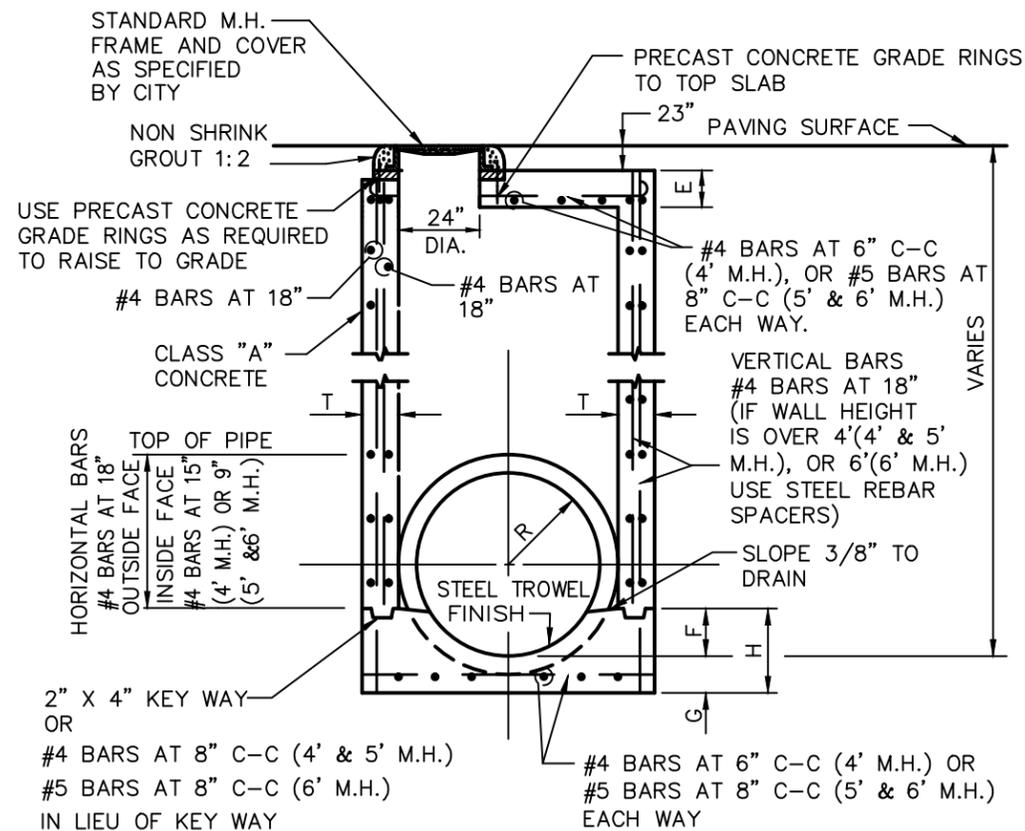
3-#4 BARS (4' & 5'M.H.) OR #5 BARS (6' M.H.) AT OPENING AS SHOWN.

#4 BARS AT 6" C-C (4' M.H.) OR #5 BARS AT 8" C-C (5' & 6'M.H.) EACH WAY. HOOK EACH END

PLAN
N.T.S.

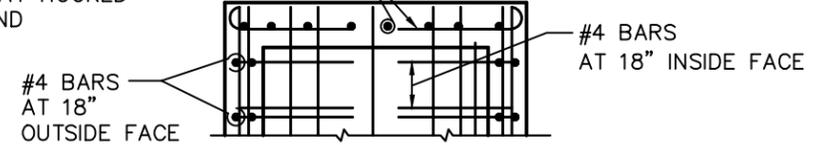
M.H. SIZE(W)	V	T	E	F	G	H
4'	5'-4"	8"	6"	9"	6"	1'-3"
5'	6'-4"	8"	6"	12"	8"	1'-8"
6'	7'-6"	9"	9"	16"	10"	2'-2"

TABLE OF DIMENSIONS
N.T.S.

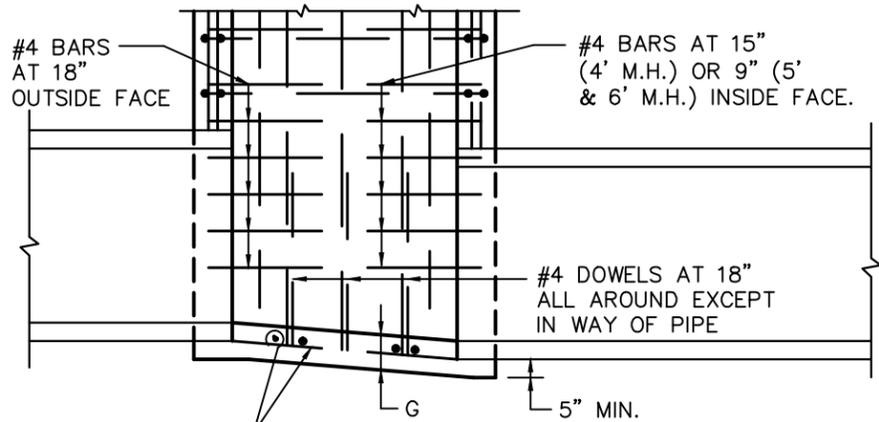


SECTION B-B
N.T.S.

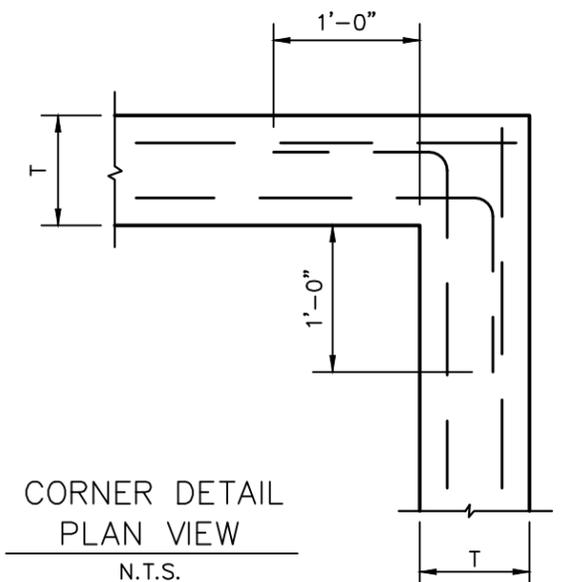
#4 BARS AT 6" C-C (4' M.H.), OR #5 BARS AT 8" C-C (5' & 6' M.H.) EACH WAY HOOKED EACH END



#4 BARS AT 6" C-C (4' M.H.), OR #5 BARS AT 8" C-C (5' & 6' M.H.) EACH WAY



SECTION A-A
N.T.S.



CORNER DETAIL
PLAN VIEW
N.T.S.

NOTES:

- SLOPE INVERT OF MANHOLE AS INDICATED ON PLAN-PROFILE SHEET.
- LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACE SHALL HAVE A COVER OF 2" TO THE CENTER OF BARS, UNLESS OTHERWISE NOTED.
- CONCRETE SHALL BE CLASS "A".
- OUTER WALL OF STRUCTURE SHALL BE CONSTRUCTED USING FORMS, NOT THE VERTICAL WALL OF THE EXCAVATION.



North Central Texas Council of Governments



NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

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ADD NOTE 4.

NO.

LOCAL EXCEPTION

SWL

BY

JUL. '14

DATE



STANDARD CONSTRUCTION DETAILS

STORM DRAIN

MANHOLE 4', 5' OR 6' SQUARE

CITY OF COPPELL DALLAS COUNTY, TEXAS

STD. SPEC. REFERENCE

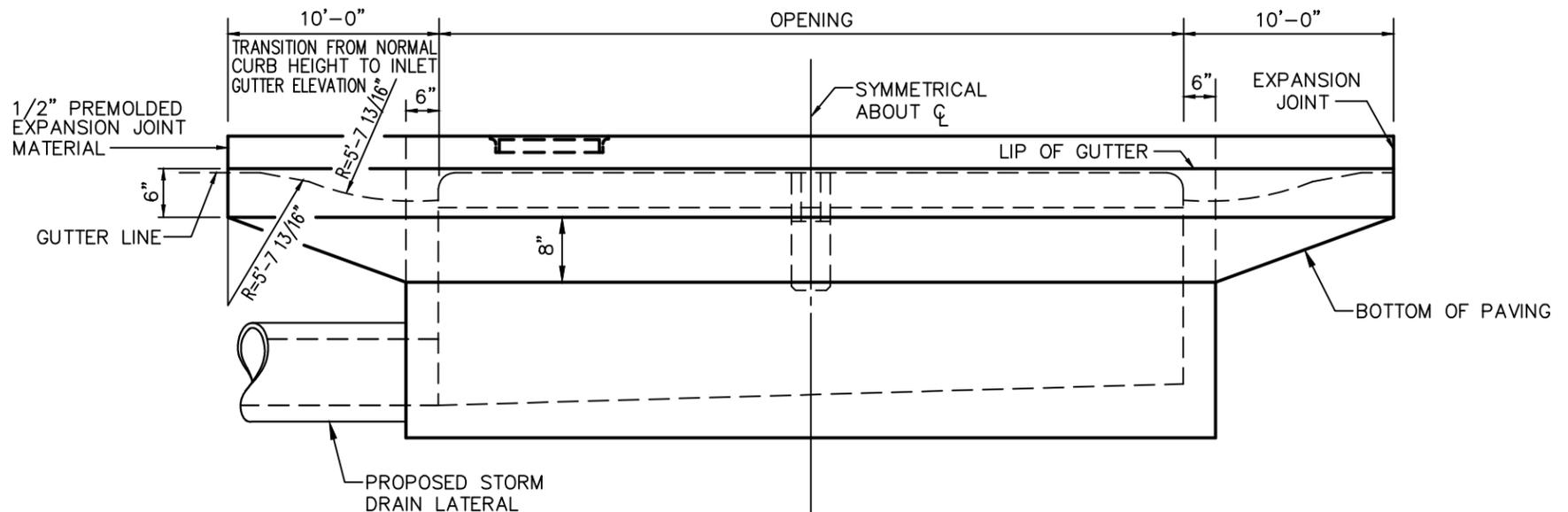
501., 702.

STANDARD DETAIL

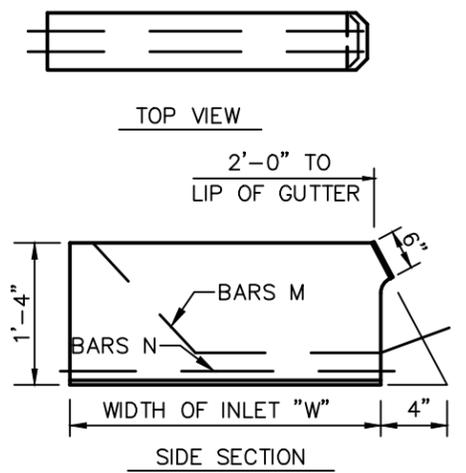
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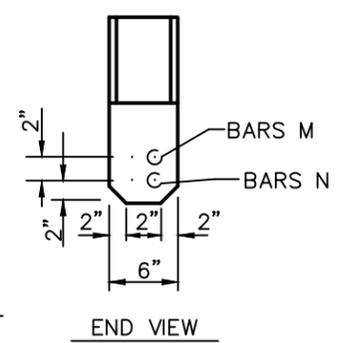
NOTE:
LOCATION OF MANHOLE OPENING TO BE AT OUTFALL END, UNLESS OTHERWISE DIRECTED BY THE CITY.



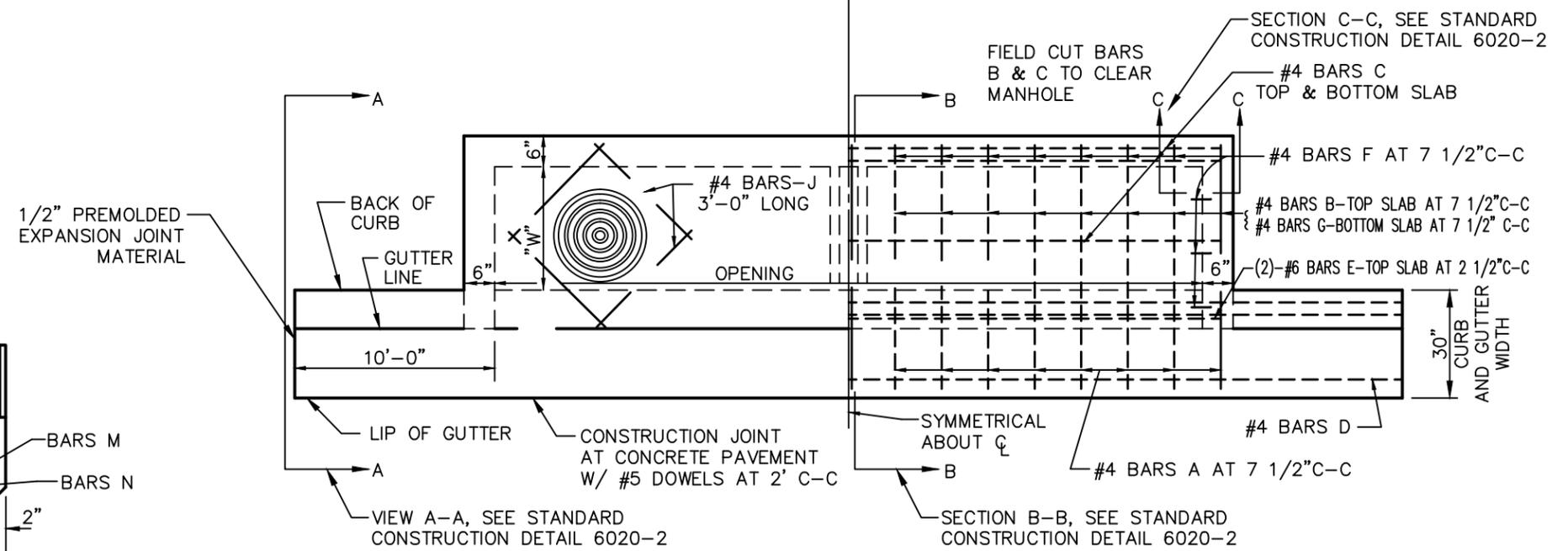
ELEVATION
N.T.S.



TRANSVERSE BEAM DETAIL
(FOR USE WITH 15' & 20' INLETS)
N.T.S.



END VIEW



PLAN
N.T.S.

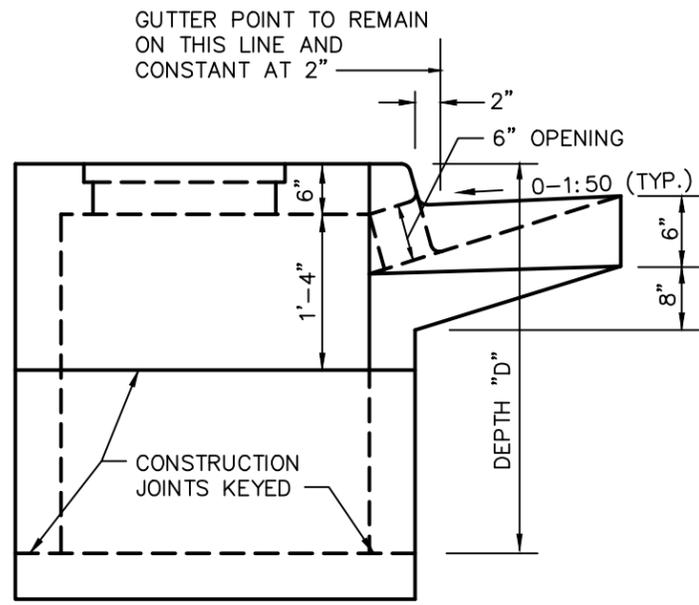
North Central Texas Council of Governments
 **NOTE:** STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

NO.	LOCAL EXCEPTION	BY	DATE

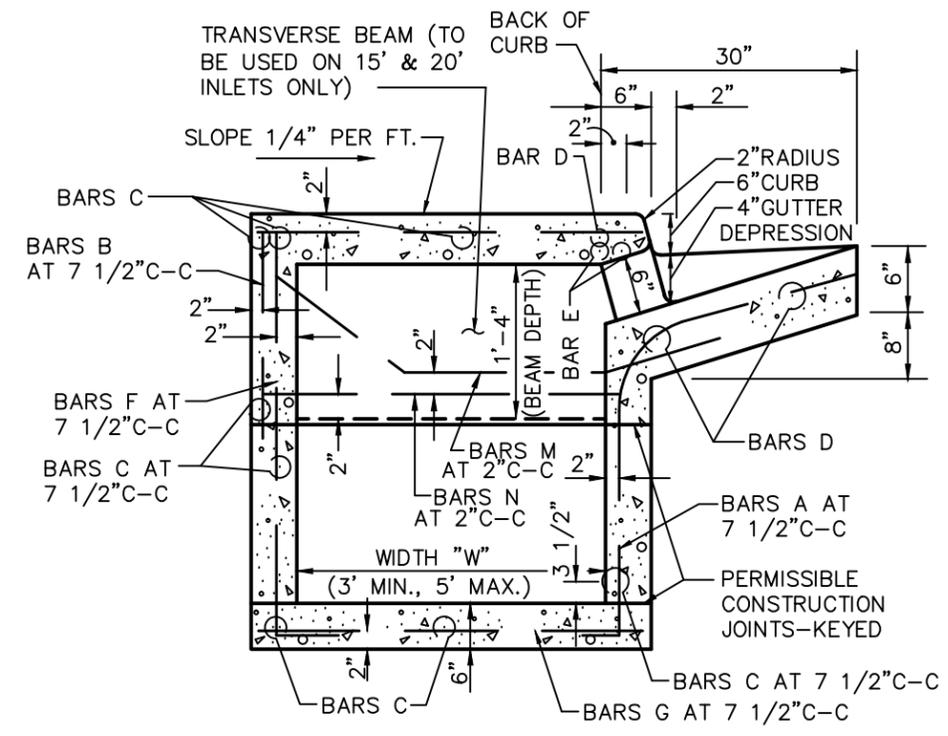


STANDARD CONSTRUCTION DETAILS
STORM DRAIN
CURB INLET: 5', 10', 15' OR 20' OPENING
 CITY OF COPPELL DALLAS COUNTY, TEXAS

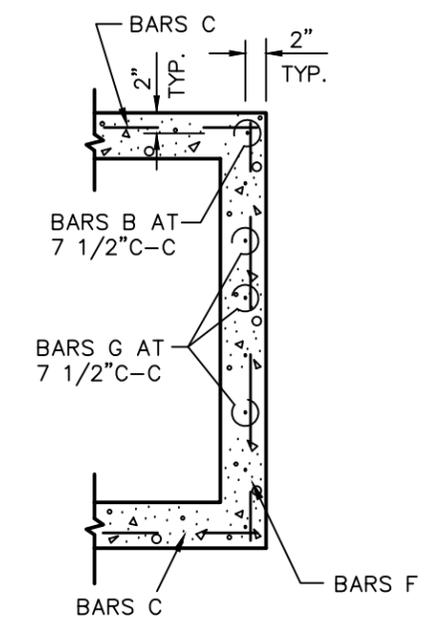
STD. SPEC. REFERENCE
 501., 702.
 STANDARD DETAIL
6020-1



VIEW A-A
N.T.S.



SECTION B-B
N.T.S.



SECTION C-C
N.T.S.

GENERAL NOTES:

1. ALL CONCRETE SHALL BE CLASS "A" CONCRETE.
2. REINFORCING BARS SHALL BE STANDARD GRADE STEEL, DEFORMED REINFORCING BARS OF A DIAMETER AND LENGTH AS SHOWN.
3. CHAMFER ALL EXPOSED CORNERS 3/4" EXCEPT WHERE OTHERWISE NOTED.
4. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
5. FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM DRAIN PIPE.
6. RING AND COVER SHALL BE APPROVED BY THE CITY AND INSTALLED BY THE CONTRACTOR.
7. OUTER WALL OF STRUCTURE SHALL BE CONSTRUCTED USING FORMS, NOT THE VERTICAL WALL OF THE EXCAVATION.



North Central Texas Council of Governments



NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

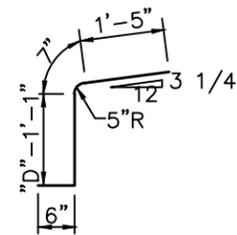
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NO.	ADD NOTE 7.	LOCAL EXCEPTION	SWL	JUL. '14
			BY	DATE

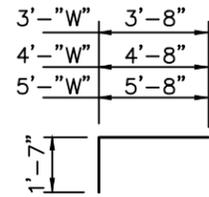


STANDARD CONSTRUCTION DETAILS
STORM DRAIN
CURB INLET: 5', 10', 15' OR 20' OPENING
CITY OF COPPELL DALLAS COUNTY, TEXAS

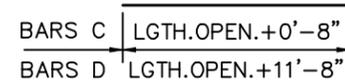
STD. SPEC. REFERENCE
501., 702.
STANDARD DETAIL
6020-2



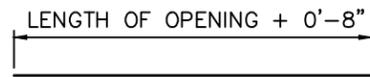
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N.T.S.



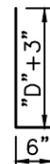
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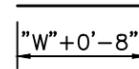
#4 BARS C & D
N.T.S.



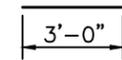
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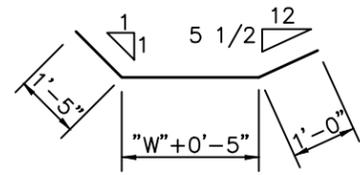
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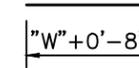
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N.T.S.



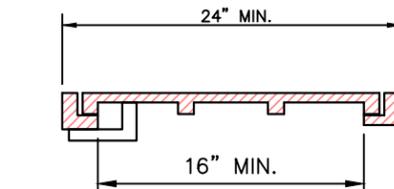
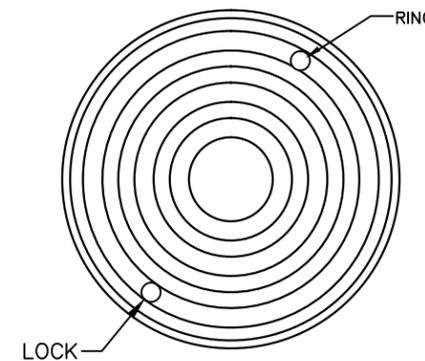
#4 BARS J
N.T.S.



#3 BARS M
N.T.S.



#5 BARS N
N.T.S.



EJIW 3034A, 104L (184L)
ASTM A48 CL35B, 18"x4"

CAST IRON
FRAME AND COVER
N.T.S.

North Central Texas Council of Governments



NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

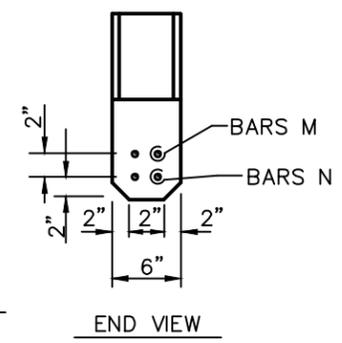
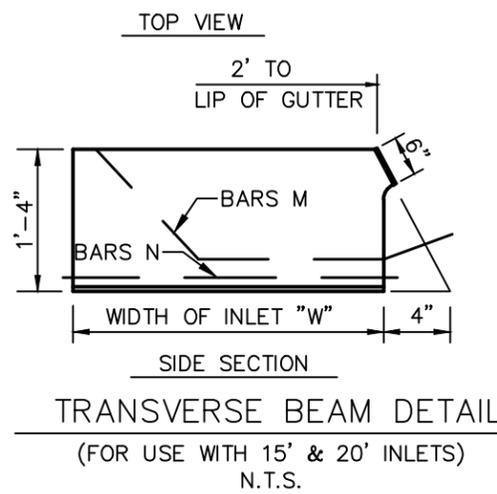
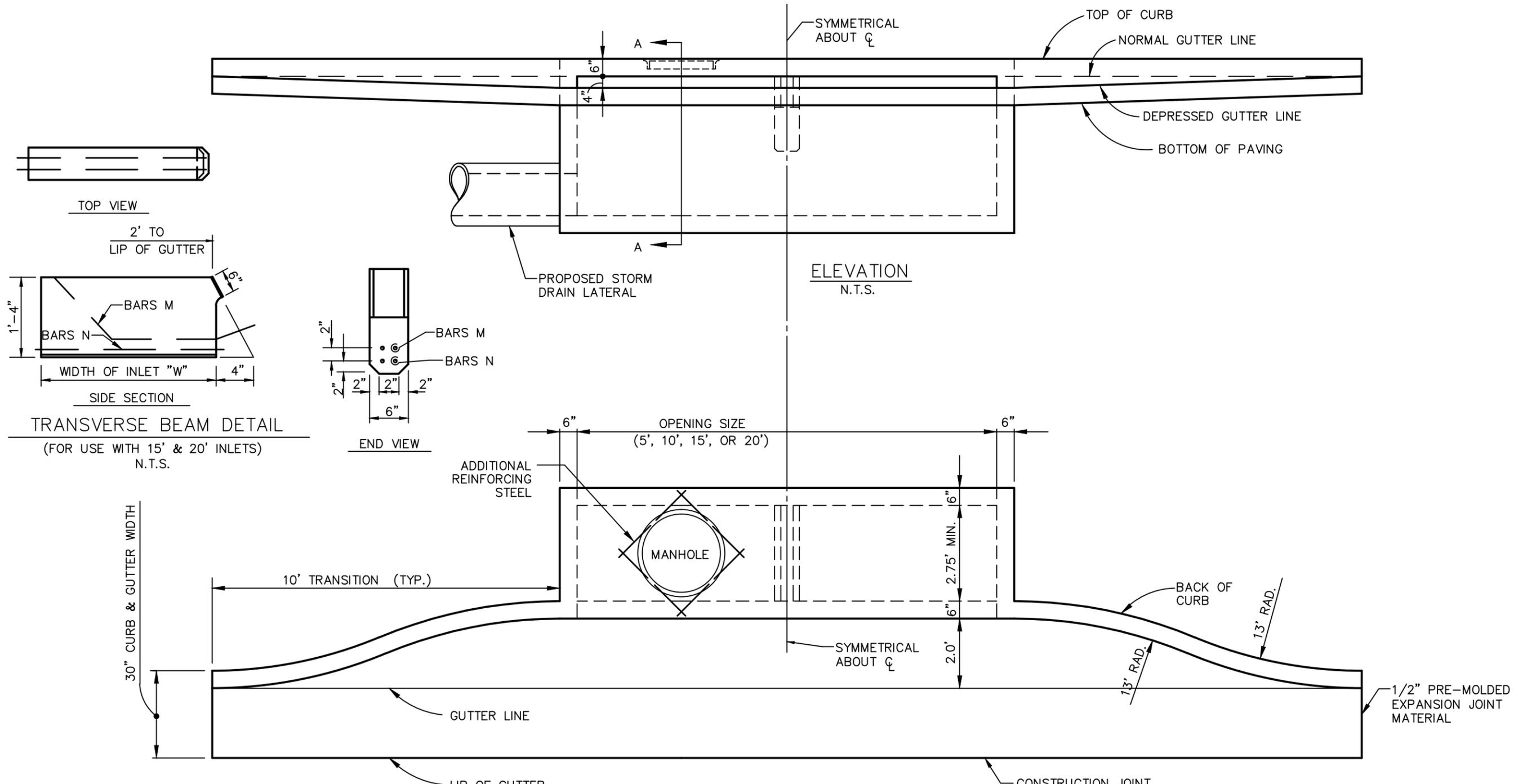
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NO.	LOCAL EXCEPTION	BY	DATE
		SWL	JUL. '14



STANDARD CONSTRUCTION DETAILS
STORM DRAIN
CURB INLET: REBAR AND M.H. FRAME & COVER
CITY OF COPPELL DALLAS COUNTY, TEXAS

STD. SPEC. REFERENCE
502., 702.
STANDARD DETAIL
6020-3

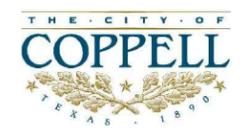


NOTE:
 LOCATION OF MANHOLE OPENING TO BE AT OUTFALL END, UNLESS OTHERWISE DIRECTED BY THE CITY.

NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

PATH: S:\Standard_Details\New_Dets_modified\SDCoppel\2005.dwg

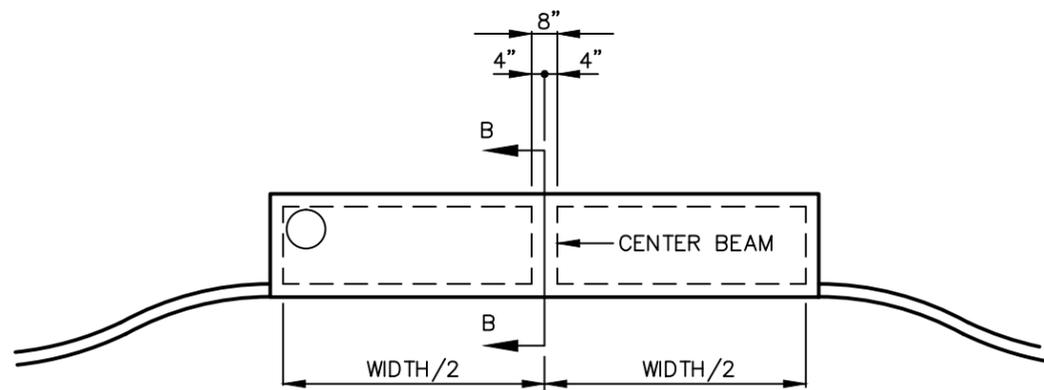
North Central Texas Council of Governments



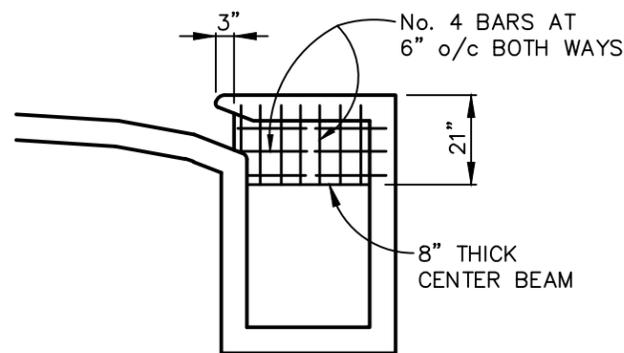
NO.	LOCAL EXCEPTION	BY	DATE

STANDARD CONSTRUCTION DETAILS
STORM DRAIN
RECESSED CURB INLET: 5', 10', 15' OR 20' OPENING
 CITY OF COPPELL DALLAS COUNTY, TEXAS

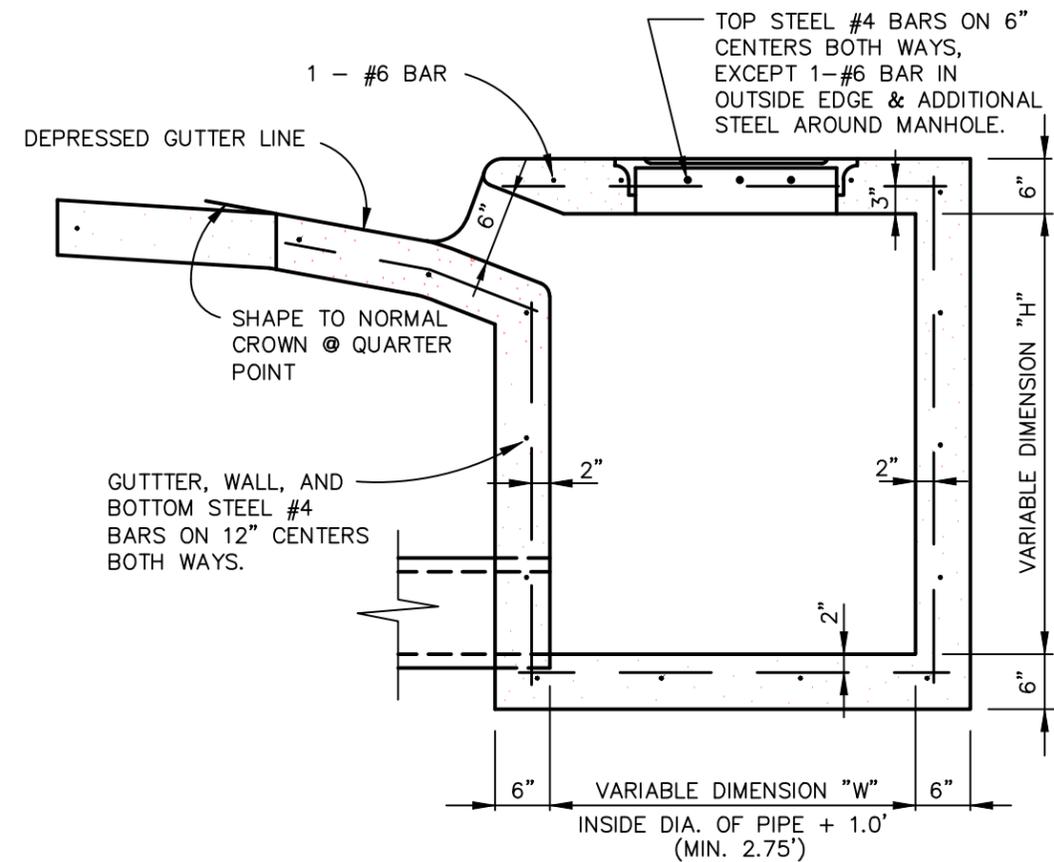
STD. SPEC. REFERENCE
 501., 702.
 STANDARD DETAIL
6030-1



CENTER BEAM FOR
15' AND 20' INLETS
N.T.S.



SECTION B-B
N.T.S.



SECTION A-A
N.T.S.

GENERAL NOTES:

1. ALL CONCRETE SHALL BE CLASS "A" CONCRETE.
2. REINFORCING BARS SHALL BE STANDARD GRADE STEEL, DEFORMED REINFORCING BARS OF A DIAMETER AND LENGTH AS SHOWN.
3. CHAMFER ALL EXPOSED CORNERS 3/4" EXCEPT WHERE OTHERWISE NOTED.
4. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
5. FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM DRAIN PIPE.
6. RING AND COVER SHALL BE APPROVED BY THE CITY AND INSTALLED BY THE CONTRACTOR.
7. OUTER WALL OF STRUCTURE SHALL BE CONSTRUCTED USING FORMS, NOT THE VERTICAL WALL OF THE EXCAVATION.

North Central Texas Council of Governments



NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

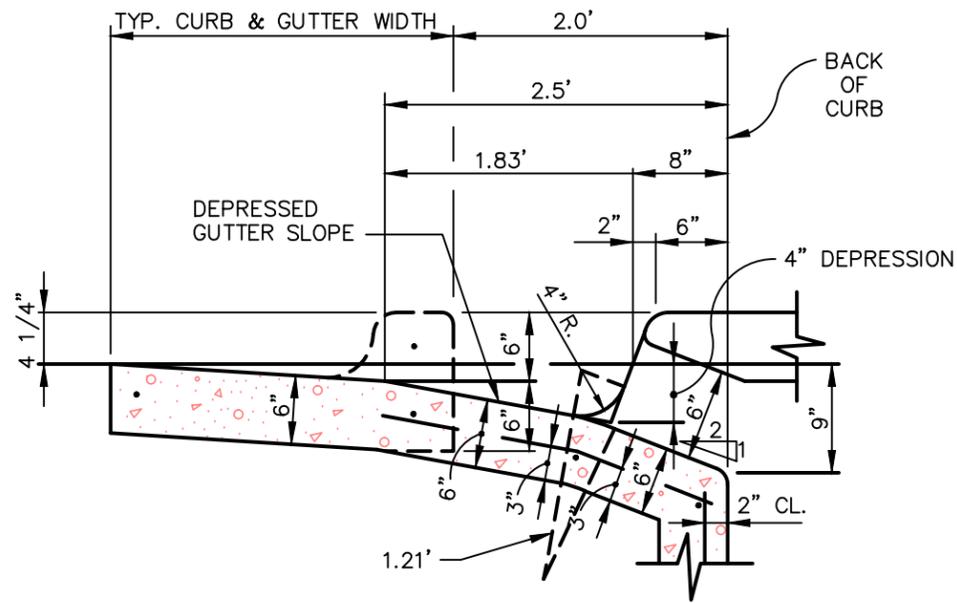
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NO.	ADD NOTE 7.	LOCAL EXCEPTION	BY	DATE
			SWL	JUL. '14

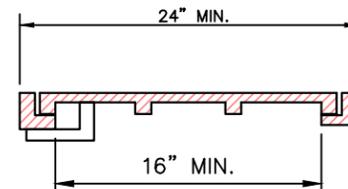
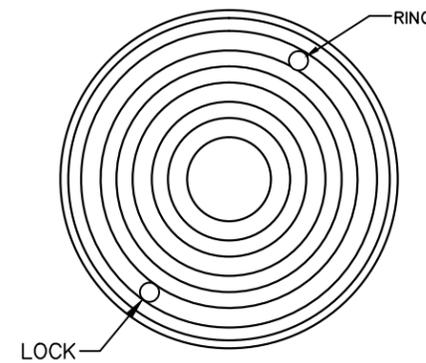


STANDARD CONSTRUCTION DETAILS
STORM DRAIN
RECESSED CURB INLET: 5', 10', 15' OR 20' OPENING
CITY OF COPPELL DALLAS COUNTY, TEXAS

STD. SPEC. REFERENCE
501., 702.
STANDARD DETAIL
6030-2



RECESSED INLET THROAT
N.T.S.



 EJIW 3034A, 104L (184L)
ASTM A48 CL35B, 18"x4"

MANHOLE FRAME & COVER
N.T.S.

North Central Texas Council of Governments



NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

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NO.	ADD PART NO. CALLOUT.	LOCAL EXCEPTION	SWL	JUL. '14
			BY	DATE



STANDARD CONSTRUCTION DETAILS
STORM DRAIN
RECESSED CURB INLET: THROAT AND M.H. COVER
CITY OF COPPELL DALLAS COUNTY, TEXAS

STD. SPEC. REFERENCE
501., 702.
STANDARD DETAIL
6030-3

GENERAL NOTES:

1. ALL REINFORCING STEEL SHALL BE GRADE 60.
2. ALL CONCRETE SHALL BE CLASS "A". ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
3. ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2" TO THE CENTERS OF THE BARS.
4. 10' OF EXISTING CURB AND GUTTER UPSTREAM AND 10' OF EXISTING CURB AND GUTTER DOWNSTREAM SHALL BE REMOVED AND REPOURED MONOLITHIC WITH EACH INLET.
5. ALL BACK FILL SHALL BE COMPACTED BY MECHANICAL TAMPING TO A DENSITY NOT LESS THAN 90% AS DETERMINED BY STANDARD PROCTOR DENSITY.
6. STORM DRAIN OUTFALL PIPE MAY ENTER ON ANY SIDE, BUT SHALL NOT ENTER AT ANY CORNER, NOR CONFLICT WITH TRANSVERSE BEAM ON 15' AND 20' INLETS

North Central Texas Council of Governments

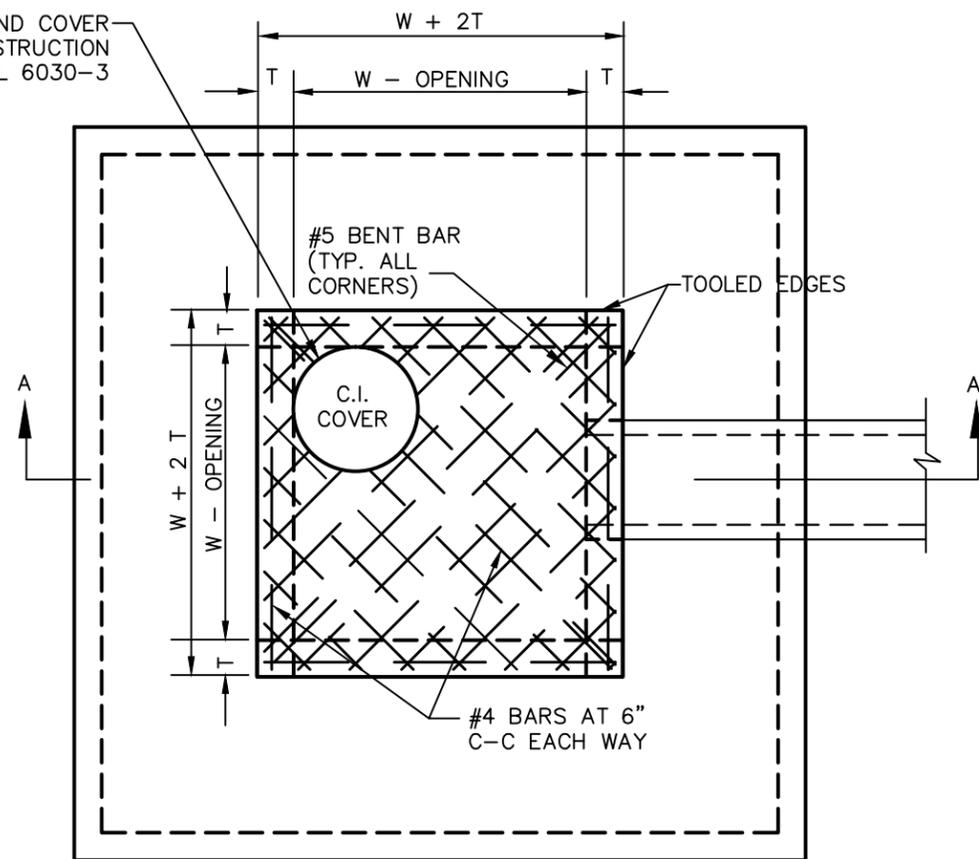


NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

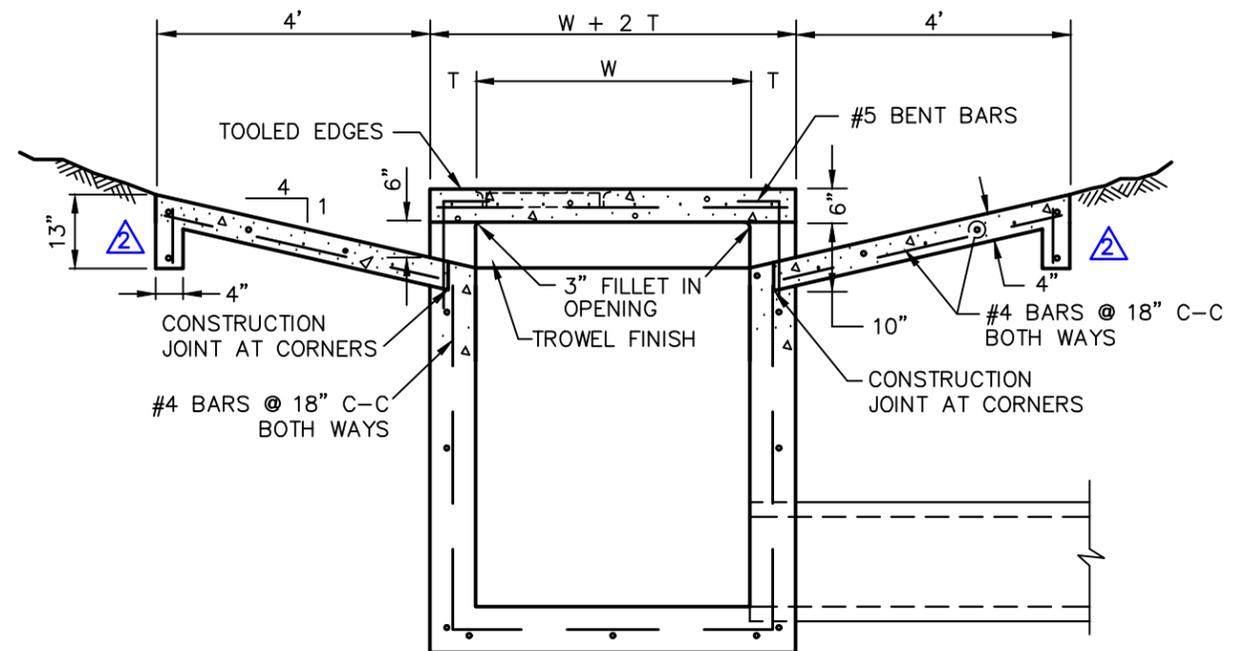
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					STANDARD CONSTRUCTION DETAILS	STD. SPEC. REFERENCE
					STORM DRAIN RECESSED CURB INLET: GENERAL NOTES	501., 702.
NO.	LOCAL EXCEPTION	BY	DATE		CITY OF COPPELL DALLAS COUNTY, TEXAS	STANDARD DETAIL 6030-4

MANHOLE FRAME AND COVER
SEE STANDARD CONSTRUCTION
DETAIL 6030-3



PLAN OF TOP SLAB
N.T.S.



SECTION A-A
N.T.S.

INLET SIZE	T	W
2' SQUARE	7"	2'
4' SQUARE	7"	4'
5' SQUARE	8"	5'
6' SQUARE	9"	6'

NOTES:

- MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF NCTCOG STANDARD SPECIFICATIONS FOR STANDARD CONCRETE MANHOLES. MINIMUM CLASS "A" CONCRETE.
- LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACES SHALL HAVE A COVER OF 2" TO THE CENTER OF BARS, UNLESS OTHERWISE NOTED.
- FOR DETAILS OF REINFORCING OF LOWER PORTIONS OF INLET SEE APPROPRIATE SQUARE MANHOLE DETAILS.
- DEPTH OF DROP INLET FROM FINISHED GRADE TO FLOW LINE OF INLET IS VARIABLE. APPROXIMATE DEPTH WILL BE SHOWN ON PLANS AT LOCATION OF INLET.
- ALL STANDARD DROP INLETS SHALL HAVE ONE OPENING ON EACH SIDE UNLESS OTHERWISE SHOWN ON PLANS.
- DECK MAY BE REINFORCED SAME AS 4' SQUARE MANHOLE.
- OUTER WALL OF STRUCTURE SHALL BE CONSTRUCTED USING FORMS, NOT THE VERTICAL WALL OF THE EXCAVATION.

North Central Texas Council of Governments



NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

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NO.	LOCAL EXCEPTION	BY	DATE
		SWL	JUL. '14
		SWL	JUL. '14



STANDARD CONSTRUCTION DETAILS
STORM DRAIN
DROP INLET
CITY OF COPPELL DALLAS COUNTY, TEXAS

STD. SPEC.
REFERENCE
501., 702.
STANDARD DETAIL
6040

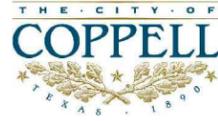
GRATE INLET STRUCTURES WILL BE APPROVED ON A CASE-BY-CASE BASIS

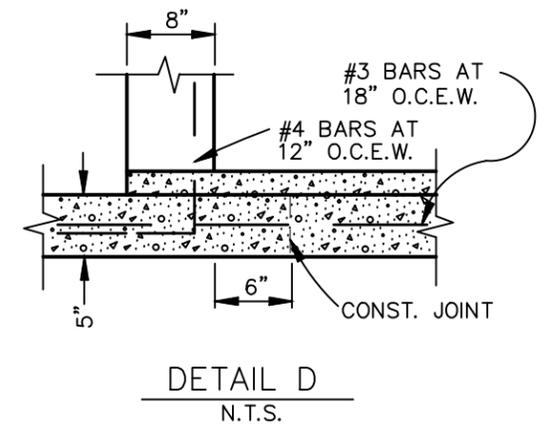
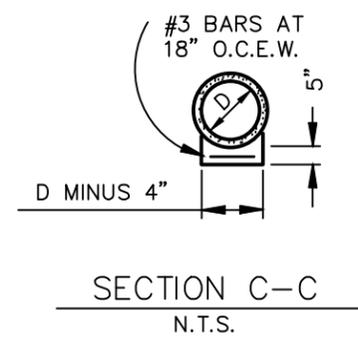
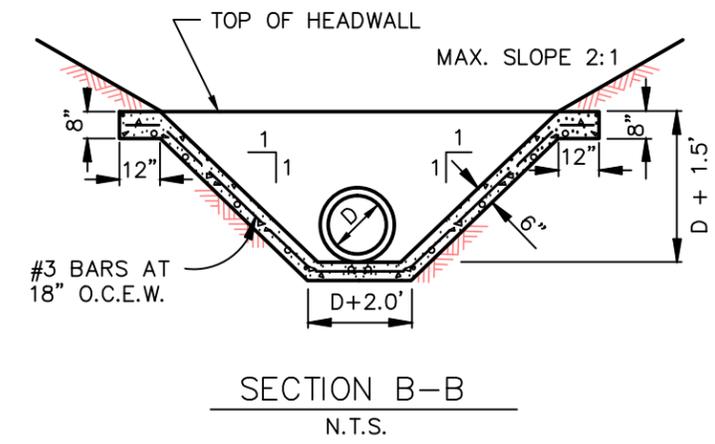
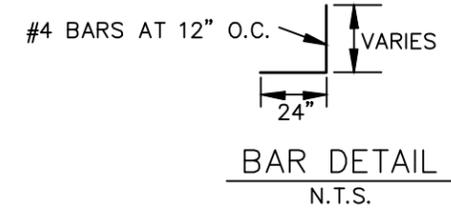
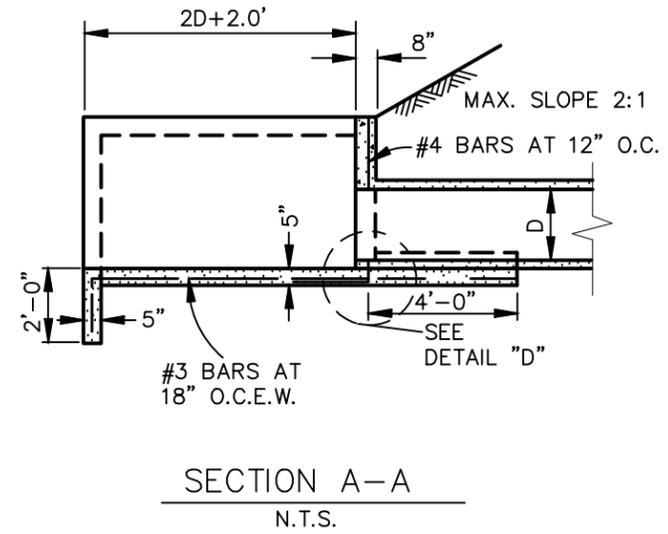
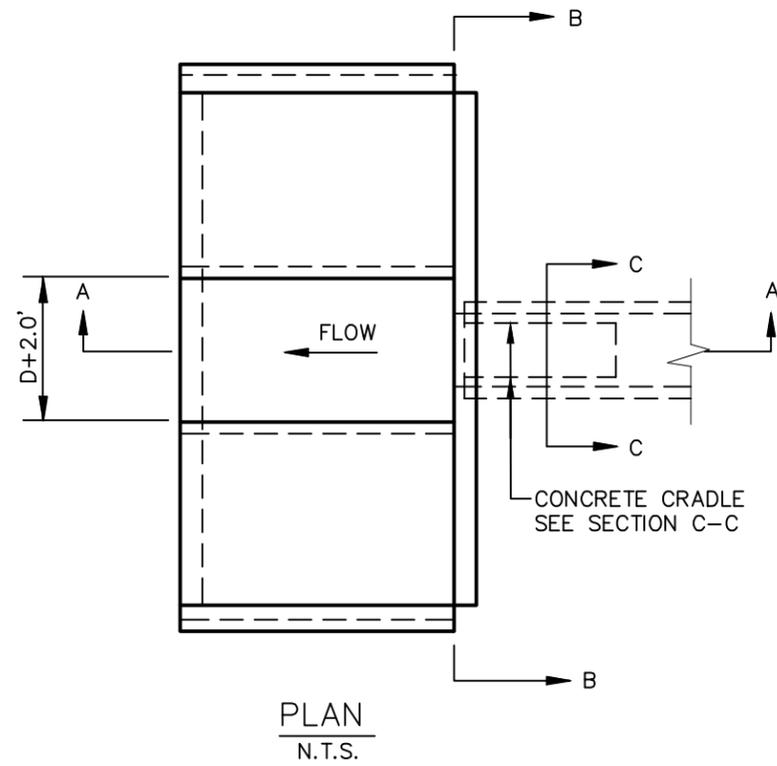
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North Central Texas Council of Governments



NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

					STANDARD CONSTRUCTION DETAILS	<small>STD. SPEC. REFERENCE</small> 303., 501., 702.
					STORM DRAIN GRATE INLET	<small>STANDARD DETAIL</small> 6050
NO.	LOCAL EXCEPTION	BY	DATE		CITY OF COPPELL DALLAS COUNTY, TEXAS	



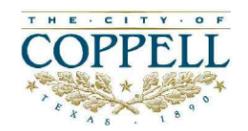
North Central Texas Council of Governments



NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

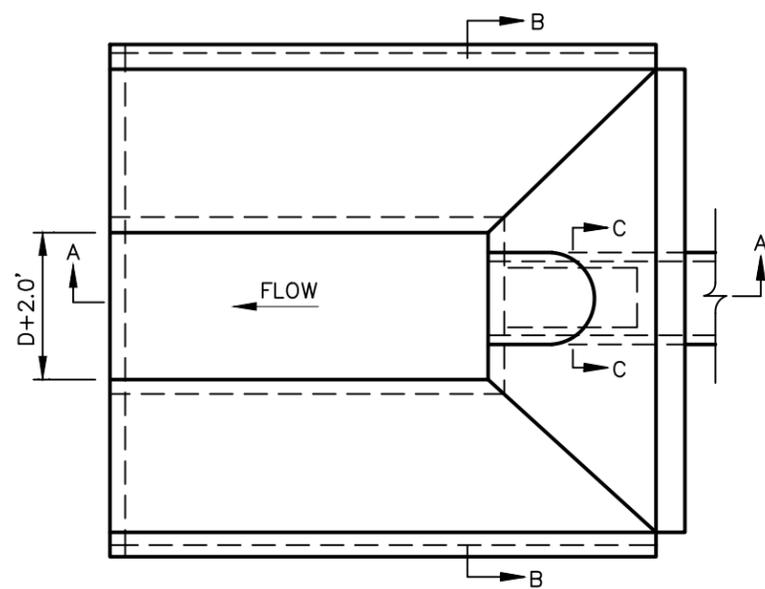
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NO.	LOCAL EXCEPTION	BY	DATE



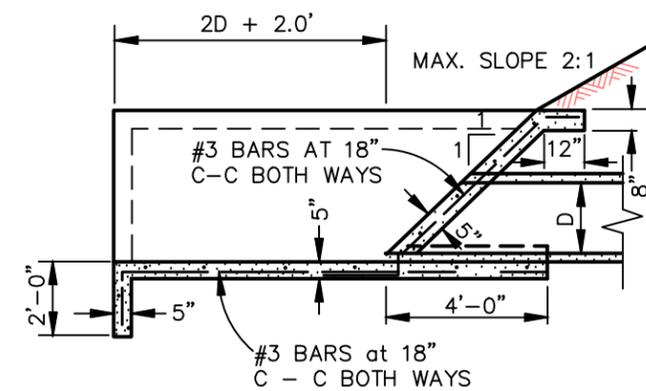
STANDARD CONSTRUCTION DETAILS
STORM DRAIN
VERTICAL HEADWALL
 CITY OF COPPELL DALLAS COUNTY, TEXAS

STD. SPEC. REFERENCE
 501., 702.
 STANDARD DETAIL
6070

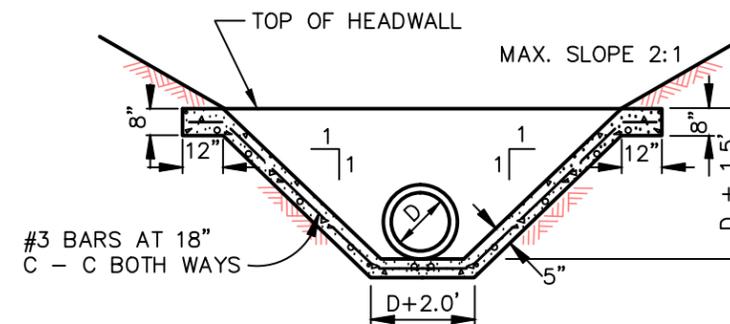


PLAN
N.T.S.

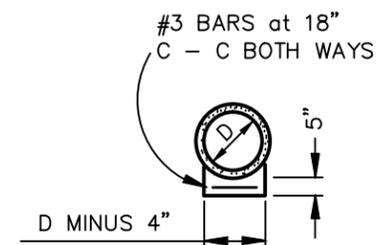
NOTE:
CONCRETE SHALL BE CLASS "A".



SECTION A-A
N.T.S.



SECTION B-B
N.T.S.

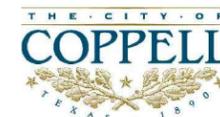


SECTION C-C
N.T.S.

North Central Texas Council of Governments



NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.



STANDARD CONSTRUCTION DETAILS

STORM DRAIN
SLOPING HEADWALL

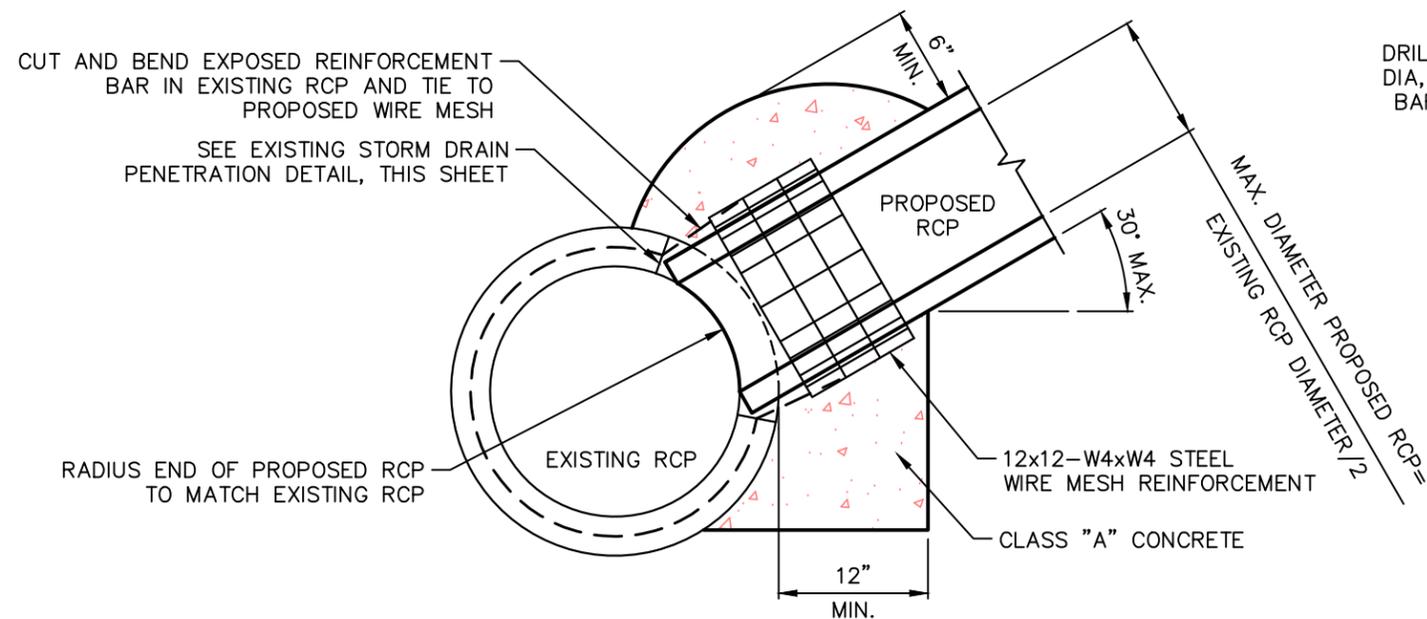
CITY OF COPPELL DALLAS COUNTY, TEXAS

STD. SPEC.
REFERENCE
501., 702.
STANDARD DETAIL

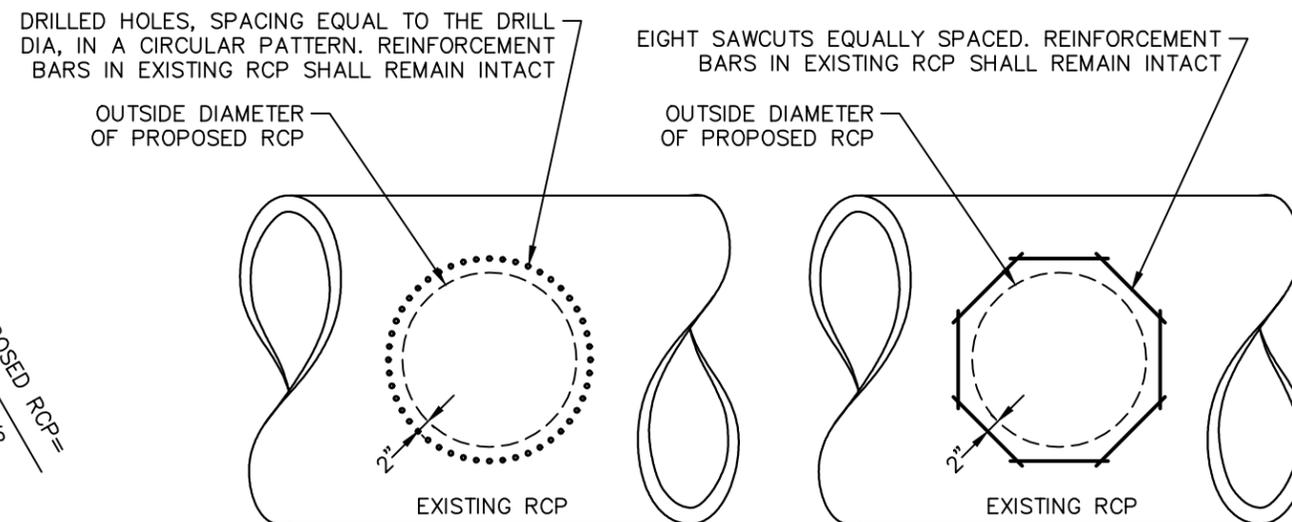
6080

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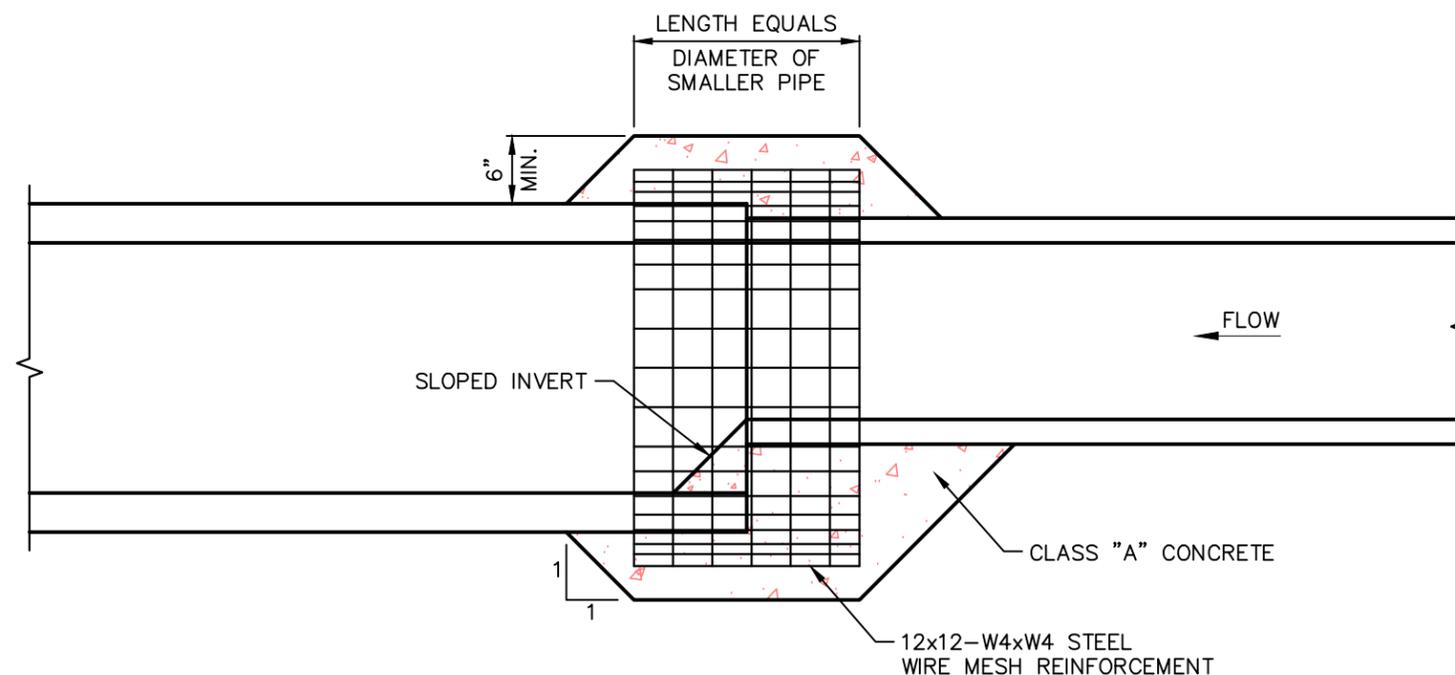
NO.	LOCAL EXCEPTION	BY	DATE



CONNECTION OF PROPOSED TO EXISTING RCP STORM DRAIN
N.T.S.



EXISTING STORM DRAIN PENETRATION METHODS
N.T.S.



PIPE COLLAR FOR FIELD CONNECTION
N.T.S.

NOTES:

1. THE CONNECTION METHODS SHOWN ON THIS DETAIL SHALL ONLY BE EMPLOYED WHEN THE USE OF A PREFABRICATED RCP CONNECTION IS NOT POSSIBLE, AND WITH THE APPROVAL OF THE CITY ENGINEER.
2. NO. 3 BARS ON 6" CTRS. MAY BE USED IN PLACE OF WIRE MESH REINFORCEMENT.

North Central Texas Council of Governments



NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

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NO.	NEW DETAIL.	LOCAL EXCEPTION	BY	DATE
			SWL	JUL. '14



STANDARD CONSTRUCTION DETAILS
STORM DRAIN
PIPE COLLAR AND FIELD CONNECTION
CITY OF COPPELL DALLAS COUNTY, TEXAS

STD. SPEC. REFERENCE
501., 702.
STANDARD DETAIL
6085

STORM DRAIN GENERAL NOTES AND TESTING

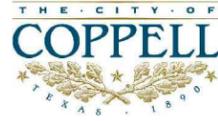
1. STORM DRAIN LINE MINIMUM DIAMETER SHALL BE 18". MATERIALS OTHER THAN REINFORCED CONCRETE PIPE (RCP) MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
2. STORM DRAIN LINE INSTALLATIONS MAY BE SUBJECT TO EXFILTRATION TESTING AND LOW PRESSURE AIR TESTING.
3. STORM DRAIN LINE INSTALLATIONS MAY BE SUBJECT TO A TV EXAMINATION. A COPY OF SAID EXAMINATION SHALL BE PROVIDED TO THE CITY FOR REVIEW PRIOR TO ACCEPTANCE OF THE STORM DRAIN LINE BY THE CITY.
4. STORM DRAIN LINE EMBEDMENT SHALL BE IN ACCORDANCE WITH THE CITY OF COPPELL STANDARD CONSTRUCTION DETAILS FOR STORM DRAIN LINE EMBEDMENT.
- △ 5. ALL RCP AND BOX CULVERT STORM DRAIN PIPE SHALL HAVE "RAMNEK" JOINT GASKETS AND MANUFACTURER PRIMED SEALING SURFACES.
- △ 6. ALL OUTFALL STRUCTURES SHALL BE BOUNDED BY A MIN. OF 20 SY GROUTED RIP-RAP.

North Central Texas Council of Governments



NOTE: STANDARDS ARE ADOPTED FROM THE NCTOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

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						STANDARD CONSTRUCTION DETAILS	<i>STD. SPEC. REFERENCE</i>
						STORM DRAIN GENERAL NOTES AND TESTING	
						CITY OF COPPELL DALLAS COUNTY, TEXAS	STANDARD DETAIL 6090
△	ADD NOTE 6.	SWL	JUL. '14				
△	CHANGED GASKET SPECIFICATION FROM "OMNI-FLEX" TO "RAMNEK".	SWL	JUL. '14				
NO.	LOCAL EXCEPTION	BY	DATE				