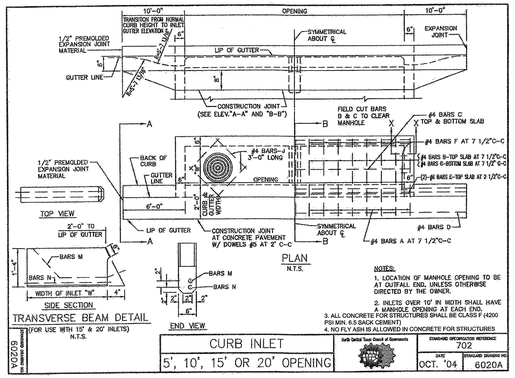
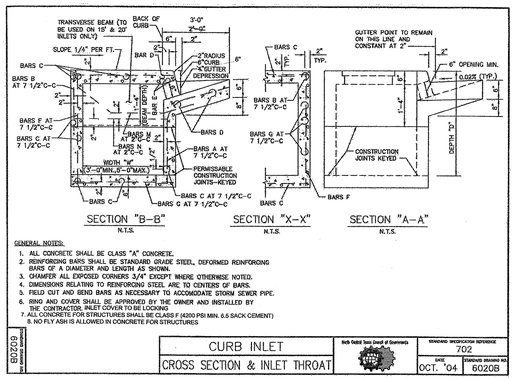


NOTES:
1. LOCATION OF MANHOLE OPENING TO BE AT OUTFALL END, UNLESS OTHERWISE DIRECTED BY THE OWNER.
2. INLETS OVER 10' IN WIDTH SHALL HAVE A MANHOLE OPENING AT EACH END.
3. ALL CONCRETE FOR STRUCTURES SHALL BE CLASS F (4200 PSI MIN. 6.5 SACK CEMENT)
4. NO FLY ASH IS ALLOWED IN CONCRETE FOR STRUCTURES

CURB INLET	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 702
5', 10', 15' OR 20' OPENING		DATE OCT. '04 · STANDARD DRAWING NO. 6020A

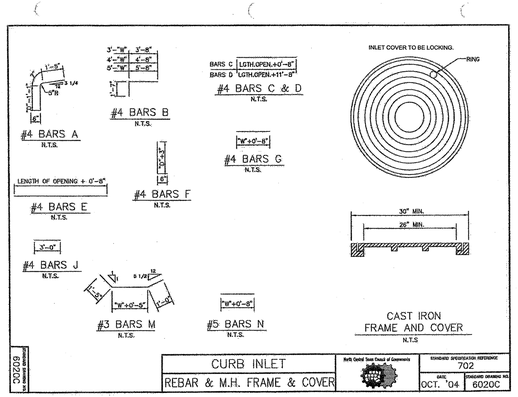
6020A



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 ACCOMODATE STORM SEWER PIPE.
6. RING AND COVER SHALL BE APPROVED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. INLET COVER TO BE LOCKING.
7. ALL CONCRETE FOR STRUCTURES SHALL BE CLASS F (4200 PSI MIN. 6.5 SACK CEMENT) & NO FLY ASH IS ALLOWED IN CONCRETE FOR STRUCTURES

CURB INLET	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 702
CROSS SECTION & INLET THROAT		DATE OCT. '04 · STANDARD DRAWING NO. 6020B

6020B



CURB INLET	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 702
REBAR & M.H. FRAME & COVER		DATE OCT. '04 · STANDARD DRAWING NO. 6020C

6020C

BILL OF REINFORCING STEEL

DEPTH "D"	ALL WIDTHS AND LENGTHS	OPENING LENGTH "L" = 5ft								OPENING LENGTH "L" = 10ft								OPENING LENGTH "L" = 15 ft								OPENING LENGTH "L" = 20 ft							
		Widths "W"								Widths "W"								Widths "W"								Widths "W"							
		3ft	4ft	5ft						3ft	4ft	5ft						3ft	4ft	5ft						3ft	4ft	5ft					
		BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS
		C	D	E	J	F	F	A	B	G	F	F	A	B	G	F	F	A	B	G	M	N	F	F	A	B	G	M	N	F	F
3'-6"	17	3	2	4	10	24	28	10	10	20	28	32	36	18	18	28	36	40	44	26	26	36	2	2	44	48	52	34	34	44	2	2
3'-8"	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3'-10"	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4'-0"	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4'-3"	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4'-5"	21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4'-7"	21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5'-0"	21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5'-3"	23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5'-5"	23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5'-8"	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6'-0"	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6'-3"	26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6'-6"	27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6'-8"	27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
7'-0"	29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
7'-3"	29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
7'-6"	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
7'-8"	31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8'-0"	31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8'-3"	32	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8'-5"	33	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8'-8"	34	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9'-0"	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9'-3"	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9'-5"	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9'-8"	38	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10'-0"	38	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

NOTE:
FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.

CURB INLET	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 702
BILL OF REINFORCING STEEL		DATE OCT. '04 · STANDARD DRAWING NO. 6020D

6020D

SUMMARY OF QUANTITIES FOR CURB INLETS

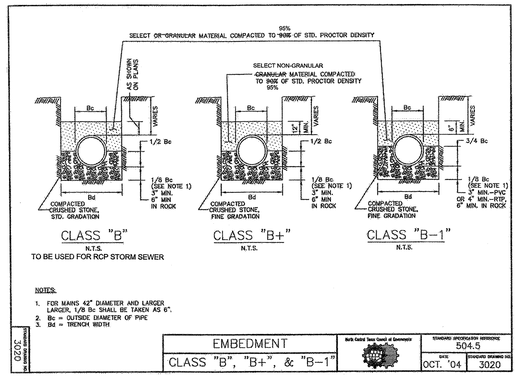
DEPTH "D"	5'-0" OPENING				10'-0" OPENING				15'-0" OPENING				20'-0" OPENING			
	WIDTH 5'-0"		WIDTH 4'-0"		WIDTH 5'-0"		WIDTH 4'-0"		WIDTH 5'-0"		WIDTH 4'-0"		WIDTH 5'-0"		WIDTH 4'-0"	
	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.
3'-6"	2.62	306	2.95	332	3.28	373	4.12	479	4.64	521	5.20	564	5.69	667	6.40	721
3'-8"	2.70	359	3.04	341	3.39	373	4.25	494	4.78	538	5.34	579	5.87	687	6.58	741
4'-0"	2.78	328	3.14	364	3.49	399	4.38	518	4.92	565	5.49	610	6.05	718	6.77	776
4'-3"	2.87	334	3.23	370	3.59	406	4.51	528	5.08	573	5.64	619	6.22	729	6.95	787
4'-5"	2.95	356	3.32	394	3.69	431	4.64	556	5.20	607	5.79	656	6.40	770	7.14	830
4'-8"	3.03	361	3.41	410	3.79	438	4.77	566	5.34	616	5.94	665	6.57	780	7.32	841
5'-0"	3.12	367	3.51	416	3.90	445	4.90	574	5.47	624	6.09	674	6.75	791	7.51	853
5'-3"	3.20	383	3.60	424	4.00	465	5.03	600	5.61	653	6.23	704	6.93	827	7.69	890
5'-5"	3.28	389	3.69	430	4.10	472	5.16	606	5.75	661	6.38	713	7.11	837	7.88	901
5'-8"	3.37	405	3.78	451	4.20	495	5.29	635	5.89	690	6.53	744	7.28	874	8.07	940
6'-0"	3.45	415	3.88	460	4.30	504	5.42	646	6.03	702	6.68	757	7.45	888	8.25	954
6'-3"	3.53	425	3.97	470	4.41	515	5.55	661	6.17	715	6.83	773	7.63	908	8.44	975
6'-5"	3.62	437	4.08	486	4.51	532	5.68	681	6.31	736	6.97	797	7.81	935	8.64	1005
6'-8"	3.70	441	4.15	490	4.61	537	5.81	688	6.45	747	7.12	806	7.98	945	8.83	1015
7'-0"	3.78	460	4.25	510	4.71	560	5.94	716	6.59	777	7.27	837	8.15	981	8.99	1053
7'-3"	3.86	465	4.34	516	4.81	567	6.07	724	6.72	785	7.42	846	8.33	992	9.18	1065
7'-5"	3.95	477	4.43	529	4.91	570	6.20	742	6.86	804	7.57	866	8.51	1016	9.36	1089
7'-8"	4.03	481	4.53	544	5.02	597	6.33	762	7.00	826	7.71	890	8.67	1040	9.55	1118
8'-0"	4.12	486	4.62	550	5.12	604	6.46	770	7.14	834	7.85	898	8.86	1051	9.73	1129
8'-3"	4.20	504	4.71	559	5.22	613	6.59	784	7.28	849	8.01	915	9.04	1069	9.92	1149
8'-5"	4.29	519	4.80	576	5.32	632	6.71	804	7.42	871	8.18	938	9.21	1107	10.10	1176
8'-8"	4.37	528	4.90	586	5.42	643	6.84	819	7.56	888	8.31	954	9.39	1119	10.29	1199
9'-0"	4.45	545	4.99	605	5.53	664	6.97	842	7.70	912	8.46	982	9.56	1148	10.47	1231
9'-3"	4.53	554	5.08	614	5.63	674	7.10	858	7.84	929	8.60	999	9.74	1169	10.66	1252
9'-5"	4.62	568	5.17	630	5.73	692	7.23	878	7.97	950	8.75	1022	9.92	1195	10.84	1280
10'-0"	4.78	582	5.38	645	5.93	708	7.49	900	8.11	971	9.05	1048	10.27	1227	11.21	1312

DEPTH "D"	15'-0" OPENING				20'-0" OPENING			
	WIDTH 5'-0"		WIDTH 4'-0"		WIDTH 5'-0"		WIDTH 4'-0"	
	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.
3'-6"	7.20	846	8.11	909	9.03	976		
3'-8"	7.42	874	8.34	937	9.27	1010		
4'-0"	7.74	909	8.68	976	9.51	1046		
4'-3"	7.87	922	8.81	990	9.75	1061		
4'-5"	8.09	973	9.04	1043	9.99	1115		
4'-8"	8.31	986	9.27	1056	10.23	1129		
5'-0"	8.53	999	9.56	1070	10.47	1144		
5'-3"	8.76	1044	9.73	1118	10.71	1194		
5'-5"	8.98	1057	9.97	1131	10.95	1208		
5'-8"	9.20	1102	10.20	1178	11.19	1258		
6'-0"	9.42	1119	10.43	1186	11.43	1276		
6'-3"	9.64	1147	10.66	1233	11.67	1305		
6'-5"	9.87	1178	10.89	1256	11.92	1340		
6'-8"	10.09	1191	11.12	1272	12.15	1355		
7'-0"	10.31	1237	11.35	1319	12.40	1404		
7'-3"	10.53	1249	11.59	1333	12.64	1418		
7'-5"	10.73	1290	11.82	1365	12.88	1431		
7'-8"	10.98	1313	12.05	1399	13.12	1488		
8'-0"	11.20	1325	12.28	1412	13.36	1510		
8'-3"	11.42	1353	12.51	1440	13.60	1528		
8'-5"	11.64	1385	12.74	1474	13.84	1565		
8'-8"	11.87	1410	12.97	1500	14.08	1592		
9'-0"	12.09	1447	13.21	1539	14.32	1632		
9'-3"	12.31	1474	13.44	1563	14.56	1660		
9'-5"	12.53	1505	13.67	1600	14.80	1696		
9'-8"	12.75	1546	14.13	1642	15.29	1739		
10'-0"	12.98	1546	14.13	1642	15.29	1739		

NOTE:
FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.

CURB INLET	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 702
SUMMARY OF QUANTITIES		DATE OCT. '04 · STANDARD DRAWING NO. 6020E

6020E

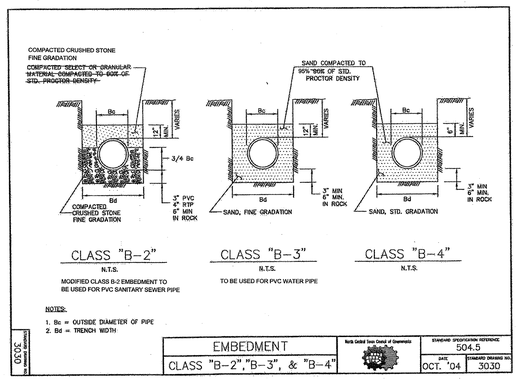


TO BE USED FOR RCP STORM SEWER

NOTES:
1. FOR MAINS 42" DIAMETER AND LARGER LARGER, 1/8 Bc SHALL BE TAKEN AS 6".
2. Bc = OUTSIDE DIAMETER OF PIPE
3. Bd = TRENCH WIDTH

EMBEDMENT	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 504.5
CLASS "B", "B+", & "B-1"		DATE OCT. '04 · STANDARD DRAWING NO. 3020

3020



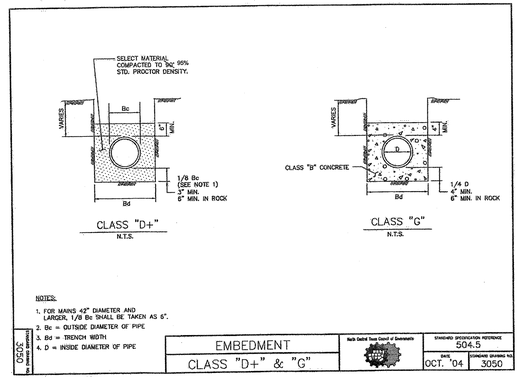
MODIFIED CLASS B-2 EMBEDMENT TO BE USED FOR PVC SANITARY SEWER PIPE

TO BE USED FOR PVC WATER PIPE

NOTES:
1. Bc = OUTSIDE DIAMETER OF PIPE
2. Bd = TRENCH WIDTH

EMBEDMENT	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 504.5
CLASS "B-2","B-3", & "B-4"		DATE OCT. '04 · STANDARD DRAWING NO. 3030

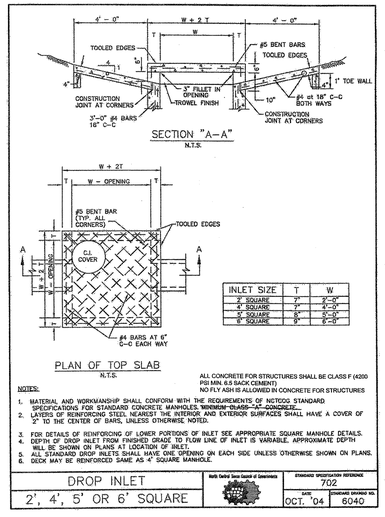
3030



NOTES:
1. FOR MAINS 42" DIAMETER AND LARGER, 1/8 Bc SHALL BE TAKEN AS 6".
2. Bc = OUTSIDE DIAMETER OF PIPE
3. Bd = TRENCH WIDTH
4. D = INSIDE DIAMETER OF PIPE

EMBEDMENT	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 504.5
CLASS "D+" & "G"		DATE OCT. '04 · STANDARD DRAWING NO. 3050

3050



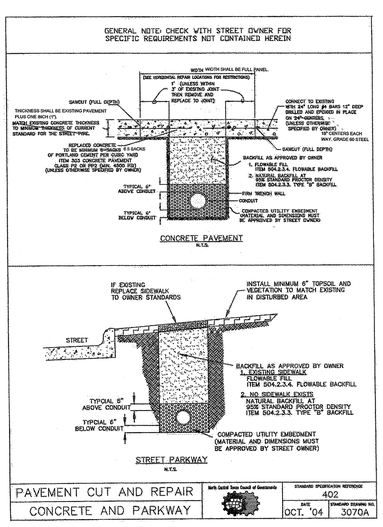
INLET SIZE	T	W
2' SQUARE	2"	2'-0"
4' SQUARE	2"	4'-0"
5' SQUARE	8"	5'-0"
6' SQUARE	8"	6'-0"

ALL CONCRETE FOR STRUCTURES SHALL BE CLASS F (4200 PSI MIN. 6.5 SACK CEMENT)
NO FLY ASH IS ALLOWED IN CONCRETE FOR STRUCTURES

NOTES:
1. MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF NCTCOG STANDARD SPECIFICATIONS FOR STANDARD CONCRETE MANHOLES, "MINIMUM-CLASS-"A"-CONCRETE".
2. LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACES SHALL HAVE A COVER OF 2" TO THE CENTER OF BARS, UNLESS OTHERWISE NOTED.
3. FOR DETAILS OF REINFORCING OF LOWER PORTIONS OF INLET SEE APPROPRIATE SQUARE MANHOLE DETAILS.
4. 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.
5. ALL STANDARD DROP INLETS SHALL HAVE ONE OPENING ON EACH SIDE UNLESS OTHERWISE SHOWN ON PLANS.
6. DECK MAY BE REINFORCED SAME AS 4' SQUARE MANHOLE.

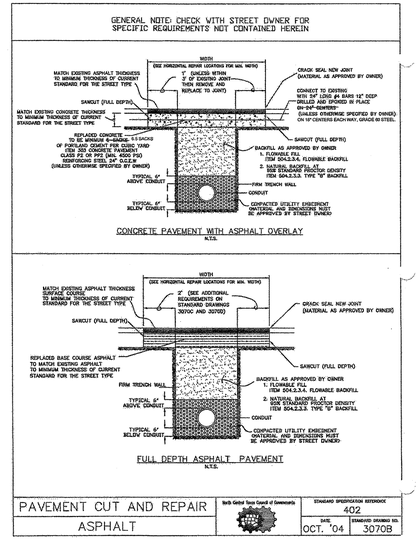
DROP INLET	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 702
2', 4', 5' OR 6' SQUARE		DATE OCT. '04 · STANDARD DRAWING NO. 6040

6040



PAVEMENT CUT AND REPAIR	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 402
CONCRETE AND PARKWAY		DATE OCT. '04 · STANDARD DRAWING NO. 3070A

3070A



PAVEMENT CUT AND REPAIR	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 402
ASPHALT		DATE OCT. '04 · STANDARD DRAWING NO. 3070B

3070B

RECORD DRAWINGS

To the best of our knowledge Engineering Concepts & Design, L.P., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor.

TODD WINTTERS 6-13-19
TODD WINTTERS DATE

NOTE: NCTCOG DETAILS SHOWN HEREON HAVE BEEN MODIFIED TO INCLUDE THE "CITY OF ROCKWALL UPDATES" AS PUBLISHED IN THE CITY OF ROCKWALL'S UNIFIED DEVELOPMENT CODE. REFER TO THE CITY DOCUMENT FOR EXACT DESCRIPTIONS OF THE UPDATES.

"Case No. SP2017-041"

BENCHMARK:
"X" CUT IN CURB 23'± SOUTH OF EAST DRIVE APPROACH OF EXISTING RAYBURN COUNTRY ELECTRIC BUILDING.

ENGINEERINGCONCEPTS & DESIGN, L.P.
ENGINEERING / PROJECT MANAGEMENT / CONSTRUCTION SERVICES - FIRM REG. #F-001145
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REVISIONS:

DRAWN: TONY DATE: APRIL 13, 2018
CHECKED: TW DATE: APRIL 13, 2018
PROJECT NO.: 3560
DWG FILE NAME:

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STATE OF TEXAS · 87085 · REGISTERED PROFESSIONAL ENGINEER · TODD WINTTERS · 4-15-18

STORM SEWER DETAILS
RAYBURN ELECTRIC COOP. PHASE 2
LOT 5, BLK 1 RAYBURN COUNTRY ADDITION
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

SHEET 19 OF 20