FIRST BAPTIST CHURCH CELINA

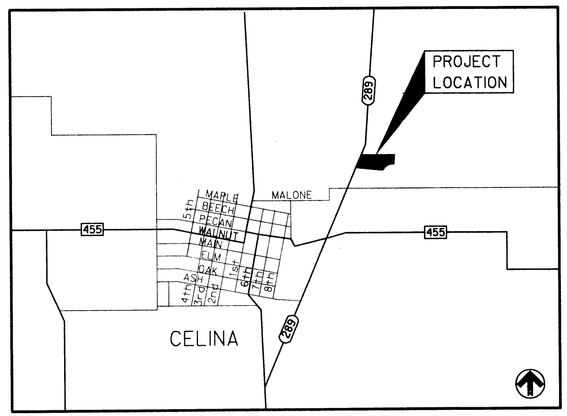
CITY OF CELINA, TEXAS

Construction Plans for

SITE IMPROVEMENTS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GRADING AND PAVING PLAN
3	SITE DRAINAGE PLAN
4	UTILITY PLAN
5	DIMENSION CONTROL PLAN
6	EROSION CONTROL PLAN
7	SITE DETAILS



VICINITY MAP
SCALE: NTS

APPROVED FOR CONSTRUCTION
CITY OF CELINA LARRY BARTLETT - CITY ADMINISTRATOR

SIGNATURE _____ DATE _____

JULY 1997
AVO: 16212

STATE OF TEXAS
LOUIS B. HUND III
17643
REGISTERED PROFESSIONAL ENGINEER
7/8/97

CLIENT

FIRST BAPTIST CHURCH CELINA
Celina, Texas

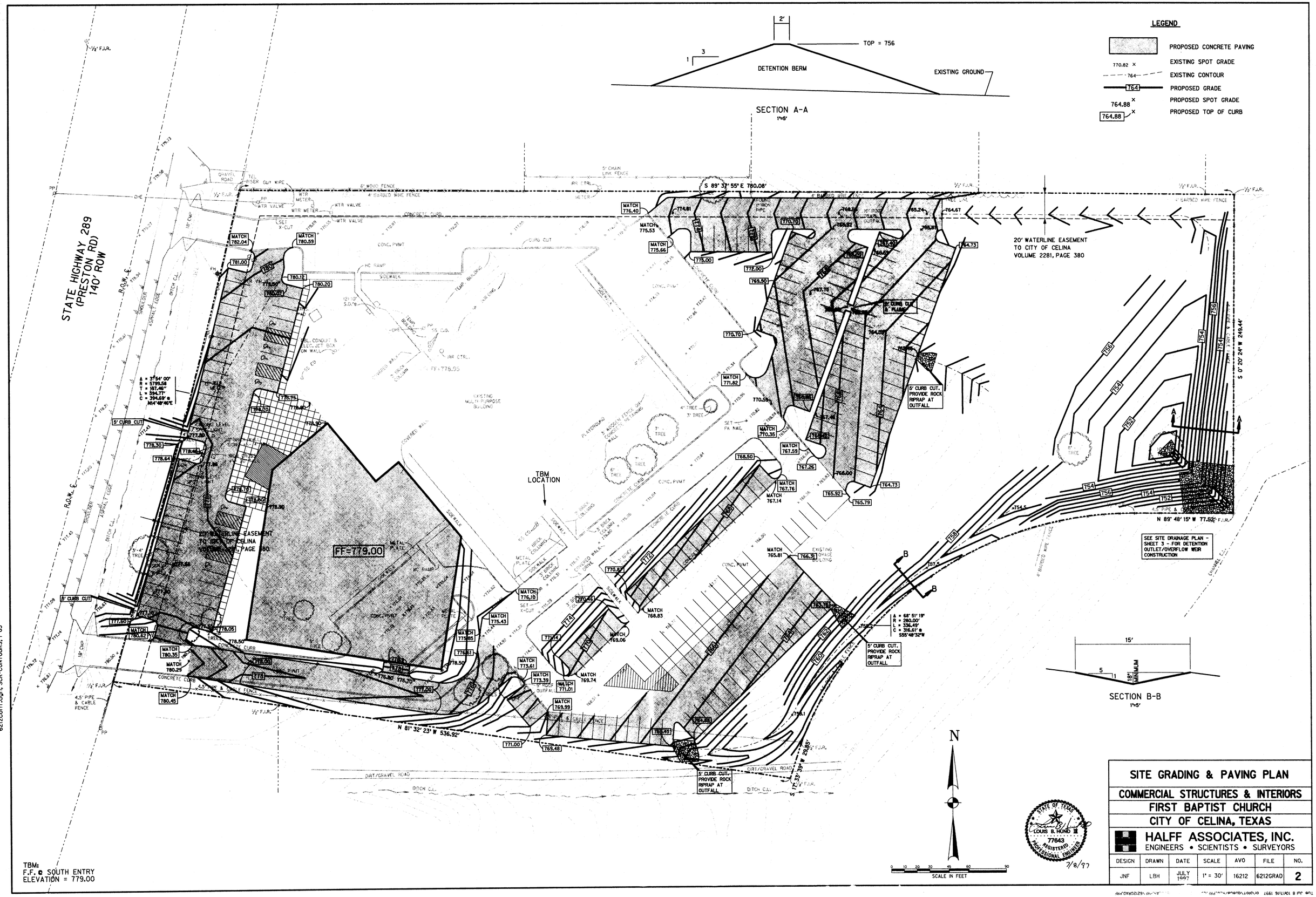
ARCHITECT

COMMERCIAL STRUCTURES AND INTERIORS
420 Southfork
Lewisville, Texas 75057
(972) 221-6511

CIVIL ENGINEER

HALFF ASSOCIATES, INC.
4000 Fossil Creek Boulevard
Fort Worth, Texas 76137
(817) 429-9975 (Metro)

FIRST BAPTIST CHURCH CELINA; AVO 16212



TBM:
F.F. @ SOUTH ENTRY
ELEVATION = 779.00

STATE OF TEXAS
LOUIS B. HOND III
77643
REGISTERED PROFESSIONAL ENGINEER
7/8/97

SITE GRADING & PAVING PLAN						
COMMERCIAL STRUCTURES & INTERIORS						
FIRST BAPTIST CHURCH						
CITY OF CELINA, TEXAS						
HALFF ASSOCIATES, INC. ENGINEERS • SCIENTISTS • SURVEYORS						
DESIGN	DRAWN	DATE	SCALE	AVO	FILE	NO.
JNF	LBH	JULY 1997	1" = 30'	16212	6212GRAD	2

6212grad.dgn lv= 1-3,39
Tue Jul 8 10:19:27 1997
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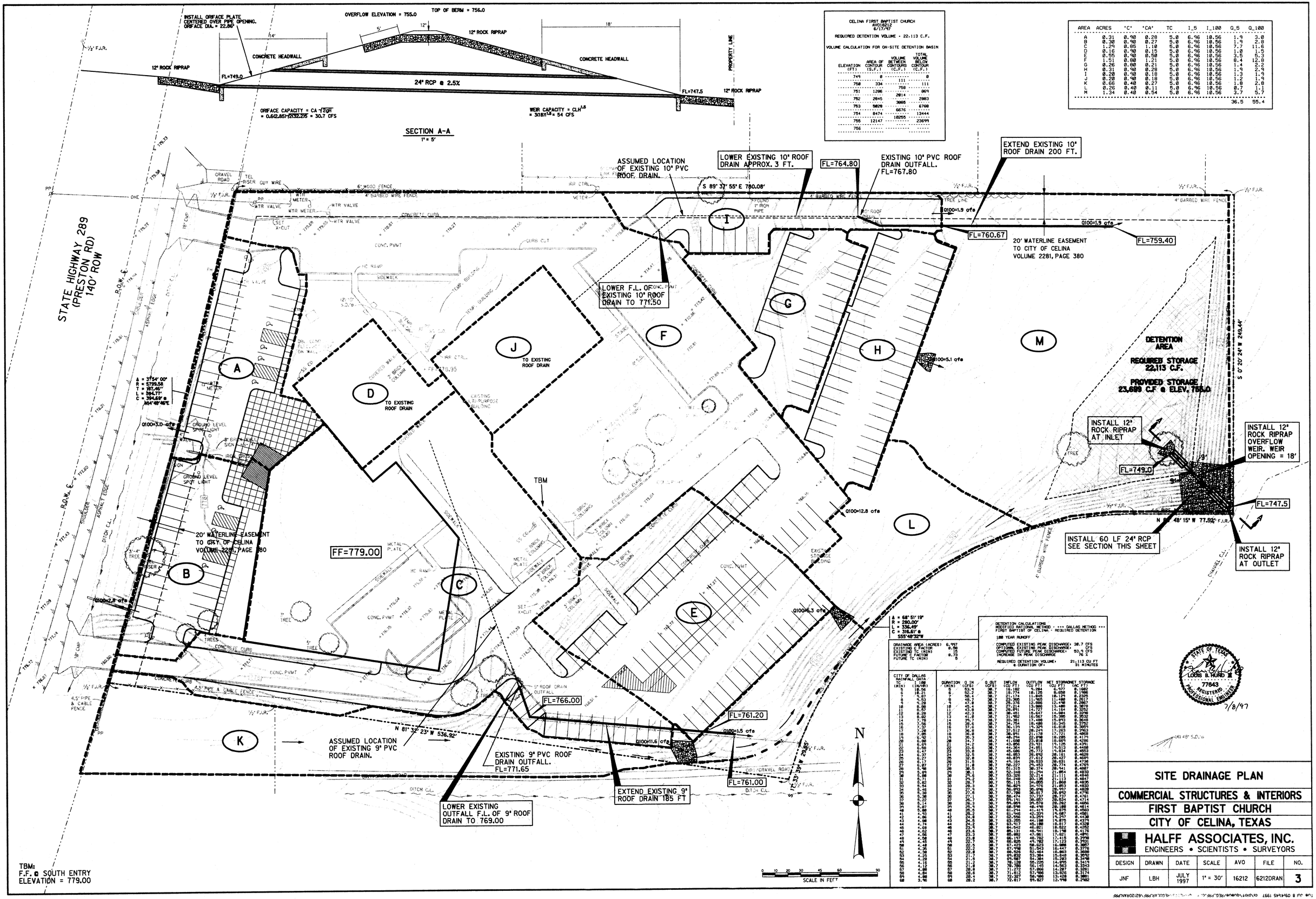
FULL TBL

6212base.dgn, SCR-BASE, 1-32,35-63
6212bdr.dgn, BORDER, 1-63
6212cont.dgn, CONTOURS, 1-63
6212cog.dgn, COGO, 33,34
6212cont.dgn, SCR-CONTOURS, 1-63

6212elev.dgn elev, 1-63
6212cog.dgn cogo, 33,34
6212bsur.dgn, survey-boundary, 3,33-35

P-199707-01



CELINA FIRST BAPTIST CHURCH
AVO10212
6/17/97

REQUIRED DETENTION VOLUME - 22.113 C.F.

VOLUME CALCULATION FOR ON-SITE DETENTION BASIN

ELEVATION (FT)	AREA OF CONTOUR (S.F.)	VOLUME BETWEEN CONTOURS (C.F.)	TOTAL VOLUME BELOW CONTOUR (C.F.)
749	0		0
750	334	111	111
751	1206	758	869
752	2845	2014	2883
753	5828	3888	6768
754	8474	6676	13444
755	12147	10255	23699
756			

AREA	ACRES	'C'	'CA'	TC	I_5	I_100	Q_5	Q_100
A	0.31	0.90	0.28	5.0	6.96	10.56	1.9	3.0
B	0.30	0.90	0.27	5.0	6.96	10.56	1.9	2.8
C	1.29	0.85	1.10	5.0	6.96	10.56	7.7	11.6
D	0.16	0.90	0.15	5.0	6.96	10.56	1.0	1.5
E	0.55	0.90	0.50	5.0	6.96	10.56	3.5	5.3
F	1.51	0.80	1.21	5.0	6.96	10.56	8.4	12.8
G	0.26	0.80	0.21	5.0	6.96	10.56	1.4	2.2
H	0.31	0.90	0.28	5.0	6.96	10.56	1.9	2.9
I	0.20	0.90	0.18	5.0	6.96	10.56	1.3	1.9
J	0.20	0.90	0.18	5.0	6.96	10.56	1.2	1.9
K	0.66	0.40	0.27	5.0	6.96	10.56	1.8	2.8
L	0.26	0.40	0.11	5.0	6.96	10.56	0.7	1.1
M	1.34	0.40	0.54	5.0	6.96	10.56	3.7	5.7
							36.5	55.4

DRAINAGE AREA (ACRES) 6.997
EXISTING C FACTOR 0.59
EXISTING TC (MIN) 15
FUTURE C FACTOR 0.73
FUTURE TC (MIN) 5

DETENTION CALCULATIONS
MODIFIED RATIONAL METHOD - *** DALLAS METHOD ***
FIRST BAPTIST OF CELINA - REQUIRED DETENTION
100 YEAR RUNOFF

COMPUTED EXISTING PEAK DISCHARGE= 38.7 CFS
OPTIONAL EXISTING PEAK DISCHARGE= CFS
COMPUTED FUTURE PEAK DISCHARGE= 53.3 CFS
INCREASE IN PEAK DISCHARGE 76 %

REQUIRED DETENTION VOLUME= 21,113 CU.FT
@ DURATION OF= 31 MINUTES

CITY OF DALLAS RAINFALL DATA

TC (MIN)	I (IN/HR)
5	18.56
6	18.21
7	17.87
8	17.53
9	17.28
10	16.99
11	16.74
12	16.49
13	16.24
14	15.99
15	15.74
16	15.49
17	15.24
18	14.99
19	14.74
20	14.49
21	14.24
22	13.99
23	13.74
24	13.49
25	13.24
26	13.17
27	13.07
28	12.98
29	12.88
30	12.79
31	12.69
32	12.60
33	12.50
34	12.41
35	12.31
36	12.22
37	12.12
38	12.03
39	11.93
40	11.84
41	11.74
42	11.65
43	11.55
44	11.46
45	11.36
46	11.27
47	11.17
48	11.08
49	10.98
50	10.89
51	10.79
52	10.70
53	10.60
54	10.51
55	10.41
56	10.32
57	10.22
58	10.13
59	10.03
60	9.94
68	9.36

DURATION (MIN)	Q IN (CFS)	Q OUT (CFS)	INFLOW (CU.FT)	OUTFLOW (CU.FT)	NET STORAGE (CU.FT)	NET STORAGE (AC.FT)
5	18.56	38.7	18.182	9.294	8.877	0.1882
6	18.21	38.7	18.774	10.125	8.650	0.1986
7	17.87	38.7	21.874	11.845	10.029	0.2303
8	17.53	38.7	23.390	13.465	9.926	0.2279
9	17.28	38.7	24.216	15.086	9.130	0.2097
10	16.99	38.7	25.244	16.706	8.538	0.1960
11	16.74	38.7	26.270	18.327	7.943	0.1823
12	16.49	38.7	27.296	19.947	7.349	0.1687
13	16.24	38.7	28.322	21.568	6.754	0.1550
14	15.99	38.7	29.348	23.188	6.160	0.1414
15	15.74	38.7	30.374	24.809	5.565	0.1277
16	15.49	38.7	31.400	26.429	4.971	0.1141
17	15.24	38.7	32.426	28.049	4.376	0.1005
18	14.99	38.7	33.451	29.670	3.782	0.0868
19	14.74	38.7	34.477	31.290	3.187	0.0732
20	14.49	38.7	35.503	32.911	2.592	0.0595
21	14.24	38.7	36.529	34.531	1.998	0.0459
22	13.99	38.7	37.555	36.152	1.403	0.0322
23	13.74	38.7	38.581	37.772	0.809	0.0186
24	13.49	38.7	39.607	39.392	0.215	0.0049
25	13.24	38.7	40.633	41.013	-0.379	-0.0087
26	13.17	38.7	41.659	42.633	-0.974	-0.0224
27	13.07	38.7	42.685	44.254	-1.570	-0.0360
28	12.98	38.7	43.711	45.874	-2.164	-0.0497
29	12.88	38.7	44.737	47.494	-2.759	-0.0633
30	12.79	38.7	45.763	49.115	-3.353	-0.0770
31	12.69	38.7	46.788	50.735	-3.948	-0.0906
32	12.60	38.7	47.814	52.356	-4.542	-0.1043
33	12.50	38.7	48.840	53.976	-5.137	-0.1179
34	12.41	38.7	49.866	55.596	-5.731	-0.1316
35	12.31	38.7	50.892	57.217	-6.326	-0.1452
36	12.22	38.7	51.918	58.837	-6.920	-0.1589
37	12.12	38.7	52.944	60.457	-7.514	-0.1725
38	12.03	38.7	53.970	62.078	-8.109	-0.1862
39	11.93	38.7	54.996	63.698	-8.703	-0.1998
40	11.84	38.7	56.022	65.318	-9.298	-0.2135
41	11.74	38.7	57.048	66.939	-9.892	-0.2271
42	11.65	38.7	58.074	68.559	-10.487	-0.2408
43	11.55	38.7	59.099	70.179	-11.081	-0.2544
44	11.46	38.7	60.125	71.800	-11.676	-0.2681
45	11.36	38.7	61.151	73.420	-12.270	-0.2817
46	11.27	38.7	62.177	75.040	-12.865	-0.2954
47	11.17	38.7	63.203	76.661	-13.459	-0.3090
48	11.08	38.7	64.229	78.281	-14.054	-0.3227
49	10.98	38.7	65.255	79.901	-14.648	-0.3363
50	10.89	38.7	66.281	81.522	-15.243	-0.3499
51	10.79	38.7	67.307	83.142	-15.837	-0.3636
52	10.70	38.7	68.333	84.762	-16.431	-0.3772
53	10.60	38.7	69.359	86.383	-17.026	-0.3909
54	10.51	38.7	70.385	88.003	-17.620	-0.4045
55	10.41	38.7	71.411	89.623	-18.215	-0.4182
56	10.32	38.7	72.437	91.244	-18.809	-0.4318
57	10.22	38.7	73.463	92.864	-19.403	-0.4455
58	10.13	38.7	74.489	94.484	-19.998	-0.4591
59	10.03	38.7	75.515	96.105	-20.592	-0.4728
60	9.94	38.7	76.541	97.725	-21.187	-0.4864
68	9.36	38.7	84.207	107.346	-23.139	-0.5311

STATE OF TEXAS
LOUIS B. HUND II
77643
REGISTERED PROFESSIONAL ENGINEER
7/8/97

SITE DRAINAGE PLAN

COMMERCIAL STRUCTURES & INTERIORS

FIRST BAPTIST CHURCH

CITY OF CELINA, TEXAS

HALFF ASSOCIATES, INC.
ENGINEERS • SCIENTISTS • SURVEYORS

DESIGN	DRAWN	DATE	SCALE	AVO	FILE	NO.
JNF	LBH	JULY 1997	1" = 30'	16212	6212DRAN	3

6212drn.dgn lv= 1-6,30,31
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FULL TBL

6212bsur.dgn, survey-boundary, 3,33-35
6212elev.dgn, elev-base, 1
6212add.dgn, SCR-GRADING, 1
6212esc.dgn, desc, 1-63

6212base.dgn, SCR-BASE, 1-32,35-63
6212bsur.dgn, BORDER, 1-3,26-29,31-49,52-61
6212elev.dgn, LABELS, 1-3,26-29
2/2cogo.dgn, cogo, 33-34
6212cont.dgn, SCR-CONTOURS, 1-63

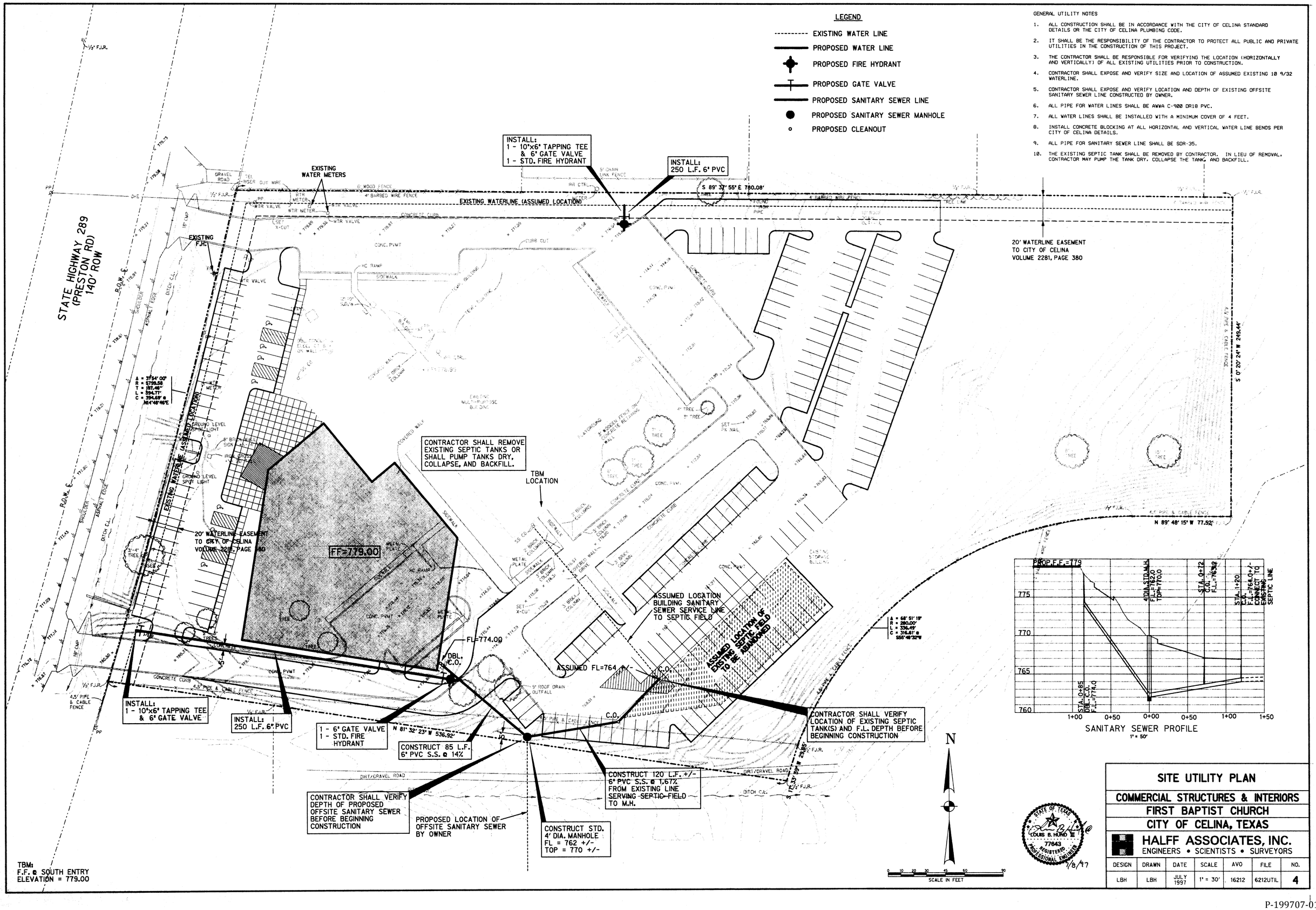
P-199707-01

LEGEND

- EXISTING WATER LINE
- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED CLEANOUT

GENERAL UTILITY NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CELINA STANDARD DETAILS OR THE CITY OF CELINA PLUMBING CODE.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC AND PRIVATE UTILITIES IN THE CONSTRUCTION OF THIS PROJECT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTALLY AND VERTICALLY) OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL EXPOSE AND VERIFY SIZE AND LOCATION OF ASSUMED EXISTING 10 9/32 WATERLINE.
5. CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND DEPTH OF EXISTING OFFSITE SANITARY SEWER LINE CONSTRUCTED BY OWNER.
6. ALL PIPE FOR WATER LINES SHALL BE AWWA C-900 DR18 PVC.
7. ALL WATER LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF 4 FEET.
8. INSTALL CONCRETE BLOCKING AT ALL HORIZONTAL AND VERTICAL WATER LINE BENDS PER CITY OF CELINA DETAILS.
9. ALL PIPE FOR SANITARY SEWER LINE SHALL BE SDR-35.
10. THE EXISTING SEPTIC TANK SHALL BE REMOVED BY CONTRACTOR. IN LIEU OF REMOVAL, CONTRACTOR MAY PUMP THE TANK DRY, COLLAPSE THE TANK, AND BACKFILL.



SITE UTILITY PLAN

COMMERCIAL STRUCTURES & INTERIORS
FIRST BAPTIST CHURCH
CITY OF CELINA, TEXAS

HALFF ASSOCIATES, INC.
ENGINEERS • SCIENTISTS • SURVEYORS

DESIGN	DRAWN	DATE	SCALE	AVO	FILE	NO.
LBH	LBH	JULY 1997	1" = 30'	16212	6212UTIL	4

STATE OF TEXAS — LOUIS B. HUNO III — 77643 — REGISTERED PROFESSIONAL ENGINEER — 7/8/97

6212bsur.dgn, survey-boundary, 3,33-35
6212grad.dgn, scr-grading, 1
6212base.dgn, SCR-BASE, 1-32,35-63
6212bdr.dgn, borders, 1-2,26-29,52-61
6212cons.dgn, CONS, 1-3,30,35,62
6212coop.dgn, COOP, 33-34
6212cont.dgn, SCR-CONTOURS, 1-63
6212util.dgn, lv= 1-3,9,10,17,18,25-27
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PLL: LBL

P-199707-01

NOTE:
COORDINATES REFERENCE
BACK OF CURB

POINT NUMBER	NORTHING	EASTING
501	2353.37	6974.52
502	2347.07	6982.94
503	2348.58	6981.10
504	2337.31	6975.64
505	2348.61	6962.55
506	2288.73	6929.34
507	2285.79	6941.80
508	2280.21	6944.24
509	2192.21	6942.88
510	2189.89	6936.45
511	2192.73	6923.45
512	2078.44	6889.22
513	2066.88	6902.22
514	2061.25	6905.34
515	2054.38	6903.41
516	2051.12	6898.68
517	2022.75	6928.95
518	2047.44	6932.86
519	2053.13	6929.82
520	2057.29	6930.19
521	2068.41	6935.74
522	2056.77	6948.74
523	2154.99	6976.23
524	2158.63	6963.23

POINT NUMBER	NORTHING	EASTING
525	2164.18	6968.11
526	2240.21	6977.95
527	2246.19	6987.62
528	2242.86	7000.84
529	2324.32	7021.35
530	2327.62	7020.26
531	2333.88	7084.99
532	2336.67	7086.48
533	2342.88	7086.68
534	2347.88	7086.28
535	2352.78	7013.62
536	2219.45	7035.89
537	2183.47	6996.51
538	2058.88	6976.58
539	2024.68	7077.12
540	2028.34	7082.27
541	2025.86	7183.81
542	2019.91	7186.75
543	2009.62	7124.15
544	2026.72	7128.88
545	2037.98	7155.68
546	2066.97	7168.28
547	2094.84	7182.81
548	2129.93	7144.43

POINT NUMBER	NORTHING	EASTING
549	2188.88	7095.50
550	2174.83	7077.59
551	1992.58	7122.68
552	2003.68	7162.65
553	2018.94	7168.82
554	2017.68	7191.82
555	2016.27	7192.20
556	2013.45	7191.95
557	1998.43	7175.71
558	1981.48	7197.32
559	1993.38	7211.49
560	1974.88	7229.75
561	2021.59	7224.25
562	2027.41	7227.57
563	2035.38	7219.98
564	1965.49	7389.31
565	1982.18	7310.86
566	1983.37	7314.33
567	1978.87	7326.94
568	2073.38	7259.82
569	2063.52	7269.13
570	2063.36	7275.49
571	2069.87	7282.51
572	2076.24	7282.68

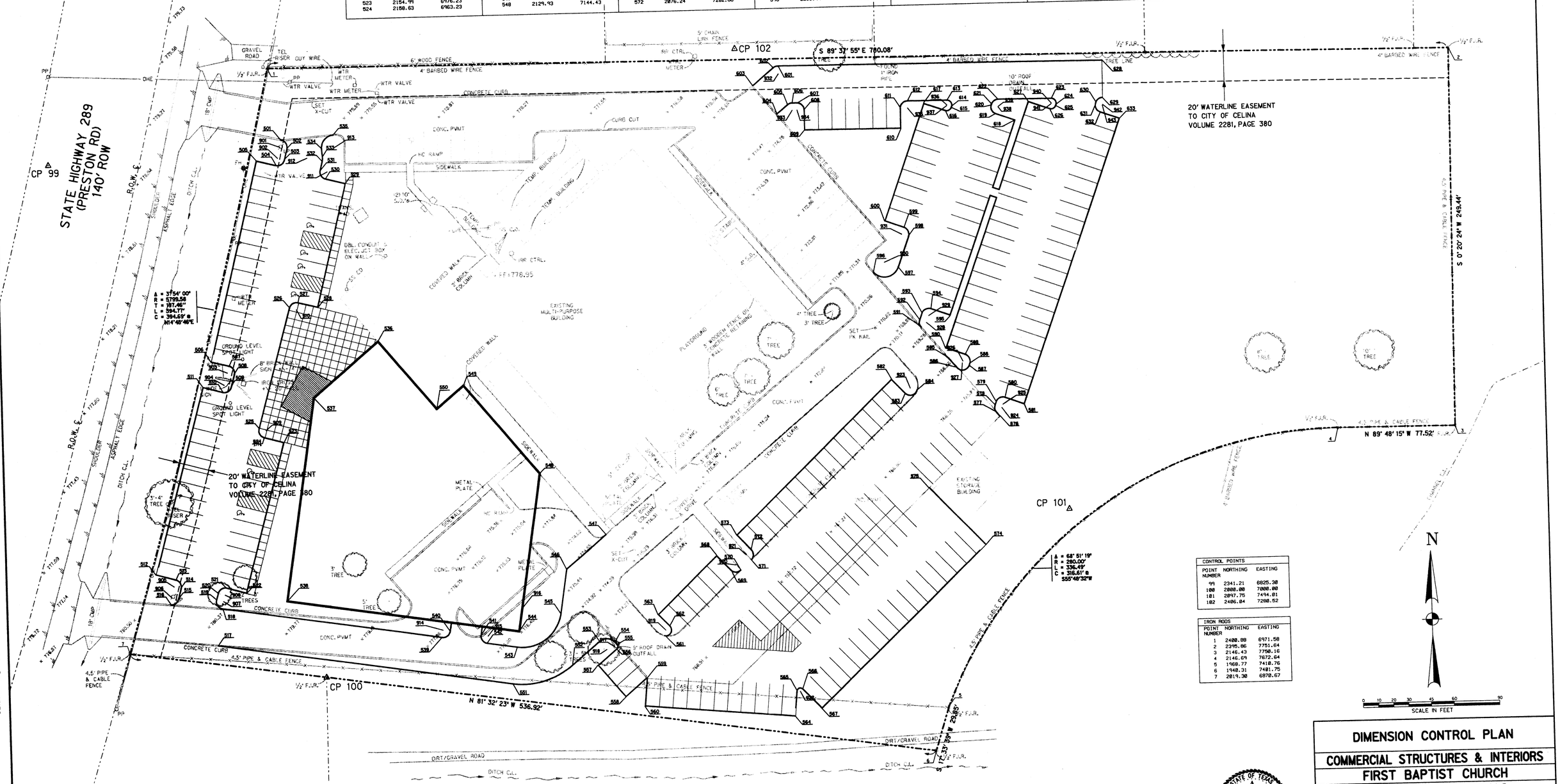
POINT NUMBER	NORTHING	EASTING
573	2086.83	7273.39
574	2075.67	7438.34
575	2113.78	7481.68
576	2159.67	7445.84
577	2162.27	7447.64
578	2166.71	7446.84
579	2168.81	7447.68
580	2171.51	7453.36
581	2168.92	7456.86
582	2185.79	7378.62
583	2176.33	7397.59
584	2177.78	7395.81
585	2198.37	7417.15
586	2192.22	7422.31
587	2193.68	7429.98
588	2194.78	7438.38
589	2200.46	7427.68
590	2205.85	7414.98
591	2219.69	7399.22
592	2224.06	7398.46
593	2228.58	7400.86
594	2231.20	7405.82
595	2226.01	7419.52
596	2256.99	7368.52

POINT NUMBER	NORTHING	EASTING
597	2259.79	7384.79
598	2279.79	7392.81
599	2285.55	7389.31
600	2298.14	7376.61
601	2293.71	7369.04
602	2292.57	7385.83
603	2301.15	7291.97
604	2362.24	7387.56
605	2368.13	7314.69
606	2369.15	7317.59
607	2369.13	7328.77
608	2364.68	7325.24
609	2351.18	7325.15
610	2350.69	7389.15
611	2364.19	7389.24
612	2368.66	7393.77
613	2368.58	7419.81
614	2364.48	7422.62
615	2363.96	7422.43
616	2362.16	7418.59
617	2367.26	7484.49
618	2354.52	7464.74
619	2359.11	7452.04
620	2364.87	7449.34

POINT NUMBER	NORTHING	EASTING
621	2365.31	7449.58
622	2368.28	7453.76
623	2368.85	7488.77
624	2364.83	7491.57
625	2363.52	7491.38
626	2355.28	7498.41
627	2365.81	7473.44
628	2392.83	7522.87
629	2367.83	7522.71
630	2364.86	7518.45
631	2364.43	7518.29
632	2359.66	7521.88
633	2354.88	7533.69

POINT NUMBER	NORTHING	EASTING	RADIUS (FT.)
901	2348.97	6978.57	4.5
902	2341.68	6976.74	4.5
903	2281.42	6939.91	4.5
904	2193.43	6937.67	4.5
905	2062.46	6981.88	4.5
906	2055.68	6899.88	4.5
907	2051.91	6933.36	4.5
908	2056.88	6934.52	4.5
909	2162.97	6964.45	4.5
910	2241.83	6986.52	4.5
911	2331.98	7089.36	4.5
912	2341.24	6996.22	10.5
913	2347.72	7014.26	8.8
914	2029.85	7077.83	4.5
915	2024.36	7107.46	4.5
916	2041.97	7130.58	26.5(50.5)
917	2013.19	7105.65	7.0
918	2014.99	7196.66	2.8
919	2025.88	7225.83	3.5
920	2066.62	7272.39	4.5
921	2073.14	7279.41	4.5
922	1981.99	7312.87	2.8
923	2179.43	7398.85	4.5
924	2165.18	7451.88	4.5

POINT NUMBER	NORTHING	EASTING	RADIUS (FT.)
925	2167.28	7451.84	4.5
926	2196.23	7426.15	4.5
927	2195.13	7425.75	4.5
928	2222.55	7482.69	4.5
929	2226.97	7484.29	4.5
930	2263.82	7375.85	9.5
931	2281.32	7387.78	4.5
932	2388.71	7389.81	5.5
933	2364.65	7317.56	4.5
934	2364.63	7328.74	4.5
935	2364.16	7393.74	4.5
936	2365.58	7419.79	3.0
937	2364.98	7419.61	3.0
938	2363.34	7453.57	4.5
939	2363.78	7453.73	4.5
940	2365.85	7488.75	3.0
941	2364.54	7488.56	3.0
942	2363.34	7522.68	4.5
943	2362.98	7522.53	4.5



CONTROL POINTS		
POINT NUMBER	NORTHING	EASTING
99	2341.21	6825.30
100	2000.00	7000.00
101	2097.75	7494.01
102	2406.04	7288.52

IRON RODS		
POINT NUMBER	NORTHING	EASTING
1	2400.88	6971.58
2	2395.86	7751.64
3	2146.43	7758.16
4	2146.89	7672.64
5	1968.77	7410.76
6	1948.31	7491.75
7	2019.38	6878.67

SCALE IN FEET

STATE OF TEXAS
LOUIS B. ROND III
77643
REGISTERED
PROFESSIONAL ENGINEER
7/8/97

DIMENSION CONTROL PLAN

COMMERCIAL STRUCTURES & INTERIORS

FIRST BAPTIST CHURCH

CITY OF CELINA, TEXAS

HALFF ASSOCIATES, INC.
ENGINEERS • SCIENTISTS • SURVEYORS

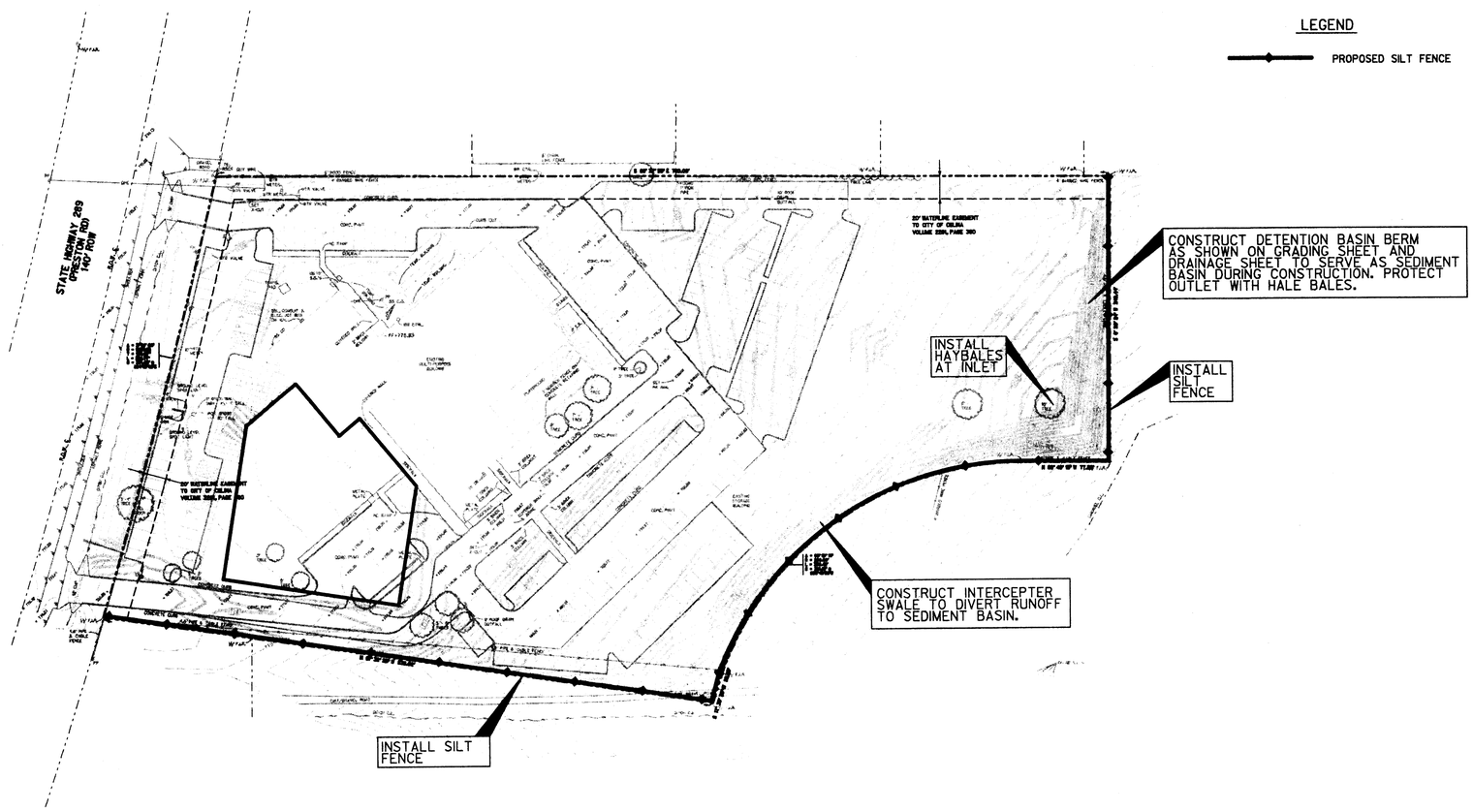
DESIGN	DRAWN	DATE	SCALE	AVO	FILE	NO.
JNF	LBH	JULY 1997	1" = 30'	16212	6212DIMC	5

6212base.dgn SCR-BASE 1-32,35-63
6212base.dgn border 1-24,26-49,52-61
6212prop.dgn PROPOSED 1-38,39
6212prop.dgn CURVE
6212boundary.dgn boundary-boundary 3,33-35

6212dimc.dgn lv= 1-63
Tue Jul 8 10:01:00 1997
CAPLOTS\REGULAR.PRF\6212DIMC.PRF
FULL.TBL

Tue Jul 8 09:51:52 1997 d:\plot\queue\REG.PRF\d01 d:\PLOTS\REGULAR.PRF\6212DIMC.PRF

P-199707-01

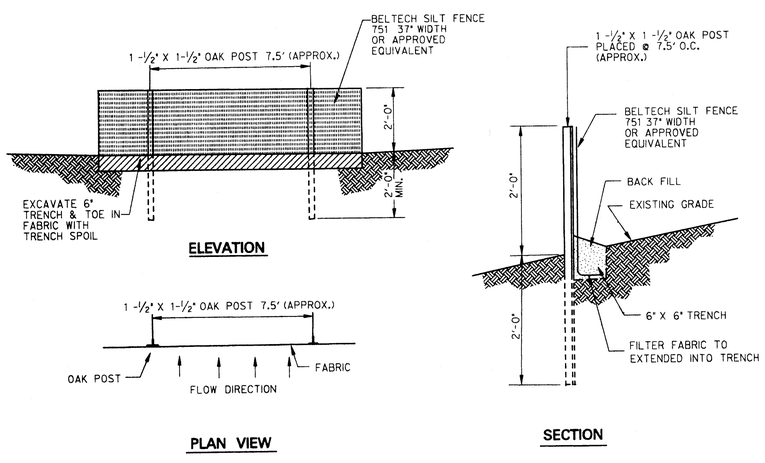


LEGEND

PROPOSED SILT FENCE

GENERAL NOTES:

1. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN SHALL CERTIFY AS TO AN UNDERSTANDING OF THE NPDES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN.
2. A COPY OF THE NOTICE OF INTENT (NOI) AND A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN MUST BE KEPT AND MAINTAINED ON THE CONSTRUCTION SITE.
3. STABILIZATION MEASURES SHALL BE PROVIDED AND MAINTAINED BY A QUALIFIED CONTRACTOR OR A CONTRACTOR EXPERIENCED IN PROVIDING SAID FACILITIES AND SERVICES.
4. STABILIZATION MEASURES SHALL BE INITIATED ON DISTURBED AREAS AS SOON AS PRACTICAL, BUT NO MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED, UNLESS ACTIVITIES ARE TO RESUME WITHIN 21 DAYS.
5. CONTRACTOR SHALL INSPECT STABILIZATION MEASURES AT A MINIMUM OF ONCE EVERY 7 DAYS, AND WITHIN 24 HOURS AFTER ANY RAINSTORM EVENT GREATER THAN 0.5 INCHES. REPAIRS AND INADEQUACIES REVEALED BY THE INSPECTION SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
6. AN INSPECTION REPORT SUMMARIZING ALL INSPECTION ACTIVITIES RELATED TO THE STORMWATER POLLUTION PREVENTION PLAN SHALL BE RETAINED AND MADE A PART OF THE PLAN.
7. IF ANY CONTRACTOR OBSERVES ANY VIOLATION OF THIS PLAN BY AN OPERATOR OR ANOTHER CONTRACTOR, HE SHALL IMMEDIATELY NOTIFY THE OPERATOR OR CONTRACTOR IN VIOLATION AS WELL AS THE ENGINEER.
8. CONTRACTOR SHALL AMEND THE STORMWATER POLLUTION PREVENTION PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PLAN, OR WHEN THE INITIAL PLAN PROVES INEFFECTIVE.
9. DURING DRAINAGE SYSTEM CONSTRUCTION, ALL CULVERTS SHALL BE PROTECTED FORM SILT AND SOIL DEPOSITS BY USE OF HAY BALES OR SILT FENCES AT THE UPSTREAM END UNTIL CONSTRUCTION IS COMPLETED.
10. SILT FENCE MAY BE INSTALLED IN INCREMENTS AS NEEDED.
11. IT SHALL BE EACH CONTRACTOR'S RESPONSIBILITY TO USE WHATEVER METHODS AND/OR MEANS REQUIRED TO CONTROL AND LIMIT THE AMOUNTS OF SILT AND SEDIMENT THAT ARE ALLOWED TO LEAVE THE CONSTRUCTION SITE INCLUDING LIMITING THE AMOUNT OF SOIL TRACKED OFFSITE BY CONSTRUCTION VEHICLES. THE CONTRACTOR SHALL PROTECT PUBLIC STREETS, WALKS, ALLEYS, STREAMS, STORM DRAINAGE SYSTEMS AND INLETS FROM SOIL DEPOSITS.
12. CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF OILS, GREASE, PAINTS, GASOLINE, AND OTHER POLLUTANTS TO STORMWATER. APPROPRIATE PRACTICES INCLUDE:
    a. DESIGNATED AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR
    b. REGULAR COLLECTION OF WASTES
    c. CONVENIENTLY LOCATED WASTE RECEPTACLES
    d. DESIGNATED AND CONTROLLED EQUIPMENT WASHDOWN AREAS
13. IT IS ANTICIPATED THAT THE FOLLOWING NON-STORMWATER DISCHARGES WILL BE ASSOCIATED WITH THE CONSTRUCTION WORK AT THIS SITE. EACH OF THE FOLLOWING DISCHARGES IS AUTHORIZED BY THE NPDES CONSTRUCTION GENERAL PERMIT.
    a. FIRE HYDRANT FLUSHINGS
    b. WATER USED FOR DUST CONTROL
    c. POTABLE WATER SOURCES
    d. UNCONTAMINATED GROUND WATER
    e. CONSTRUCTION WATER
14. SEED ALL OFF-SITE CONSTRUCTION AREAS TO RE-ESTABLISH VEGETATION.



GENERAL NOTES:

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED WITH A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST. THERE SHALL BE A 6" DOUBLE OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

SILT FENCE DETAIL

N.T.S.

N

0 30 60 120 180
SCALE IN FEET

STATE OF TEXAS
LOUIS B. HUND III
77643
REGISTERED
PROFESSIONAL ENGINEER
7/8/97

EROSION CONTROL PLAN

COMMERCIAL STRUCTURES & INTERIORS
FIRST BAPTIST CHURCH
CITY OF CELINA, TEXAS

HALFF ASSOCIATES, INC.
ENGINEERS • SCIENTISTS • SURVEYORS

DESIGN	DRAWN	DATE	SCALE	AVO	FILE	NO.
JNF	LBH	JULY 1997	1" = 60'	16212	6212EROS	6

6212bsur.dgn, SCR-BASE, 1-32,35-63
6212bsur.dgn, boundary, 3,33-35
6212grd.dgn, SCR-GRADING, 1-62
6212cont.dgn, PROPOSED, 38,39
6212cogo.dgn, COGO, 37,34
6212cont.dgn, SCR-CONTOURS, 1-63

6212eros.dgn lv= 1-63
Tue Jul 8 08:56:13 1997
PW:C:\PLOTS\REGULAR.PRF\6212EROS.PRF
FULL TBL

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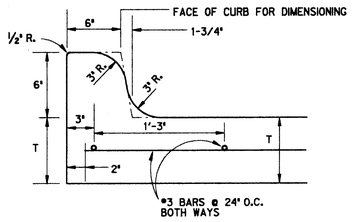
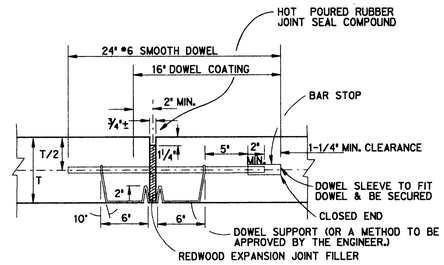
P-199707-01



STANDARD MONOLITHIC CURB FOR CONCRETE PAVEMENT

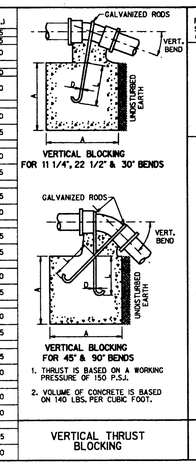
N.T.S.



TRANSVERSE EXPANSION JOINT (120' C-C MAX.)

N.T.S.

PIPE SIZE	VERT. BEND	CUBIC FEET	A (PT.)	D (IN.)	L (FT.)
4"	11 1/4°	3	1.0	3/4	0.5
	22 1/2°	6	2.0		1.5
	45°	10	2.2		2.0
	90°	19	2.7		
6"	11 1/4°	6	1.5	3/4	1.0
	22 1/2°	14	2.5		2.0
	45°	23	3.0		
	90°	43	3.5		
8"	11 1/4°	11	2.5	3/4	2.0
	22 1/2°	21	2.8		
	45°	41	3.5		2.5
	90°	76	4.3		
10"	11 1/4°	17	2.7	3/4	2.0
	22 1/2°	33	3.3		
	45°	64	4.0		3.5
	90°	119	5.0		
12"	11 1/4°	24	3.0	3/4	2.5
	22 1/2°	47	3.7		
	45°	93	4.6		4.0
	90°	172	5.5		
14"	11 1/4°	32	3.3	1	2.5
	22 1/2°	64	4.0		
	45°	126	5.1		4.5
	90°	233	6.2		
16"	11 1/4°	43	2.5	1	3.0
	22 1/2°	84	4.4		
	45°	166	5.5		4.5
	90°	305	6.8		
18"	11 1/4°	54	3.8	1	3.0
	22 1/2°	107	4.8		
	45°	209	5.9		4.5
	90°	386	7.3		
20"	11 1/4°	66	4.0	1	3.5
	22 1/2°	132	5.1		
	45°	258	6.4		5.0
	90°	477	7.8		
24"	11 1/4°	95	4.6	1 1/2	4.0
	22 1/2°	190	5.8		
	45°	371	7.2		6.0
	90°	686	8.8		
30"	11 1/4°	149	5.3	1 1/2	4.5
	22 1/2°	296	6.7		
	45°	580	8.3		7.0
	90°	1071	10.2		



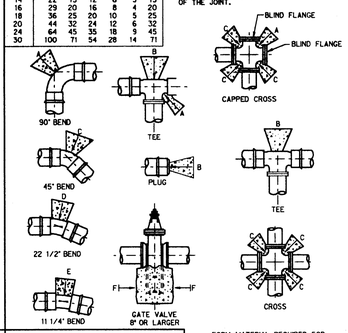
1. THRUST IS BASED ON A WORKING PRESSURE OF 150 P.S.I.
2. VOLUME OF CONCRETE IS BASED ON 140 LBS. PER CUBIC FOOT.

VERTICAL THRUST BLOCKING

PIPE SIZE (IN.)	MINIMUM BEARING AREA AGAINST UNDISTURBED SOIL (SQ. FT.) A	B	C	D	E	F
4	2	2	1	1	1	2
6	4	3	3	1	1	3
8	8	5	4	2	1	5
10	12	8	6	3	2	8
12	16	12	9	5	2	12
14	22	15	12	6	3	15
16	29	20	16	8	4	20
18	36	25	20	10	5	25
20	44	32	24	12	6	32
24	64	45	35	18	9	45
30	100	71	54	28	14	71

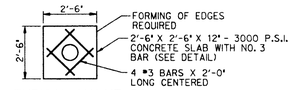
NOTES:

1. THRUST IS BASED ON A WORKING PRESSURE OF 150 P.S.I.
2. BEARING AREA IS BASED ON A SAFE SOIL BEARING LOAD OF 1500 P.S.I.
3. BLOCKING SHALL BEAR AGAINST FITTING ONLY AND SHALL BE CLEAR OF THE JOINT.



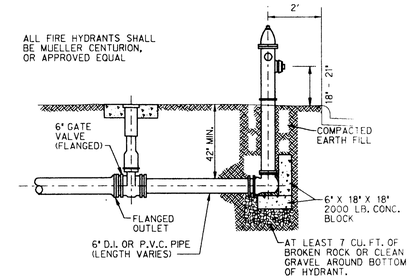
HORIZONTAL THRUST BLOCKING

FORM MATERIAL REQUIRED FOR POURING AND BLOCKING AT FITTINGS AND BENDS OR FOR BLOCKING AT FIRE HYDRANT.

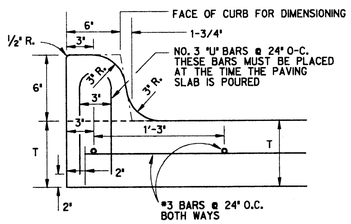


TYPICAL VALVE BOX
REINFORCING PLAN

FOR VALVES OUTSIDE OF PAVEMENT AND SIDEWALKS



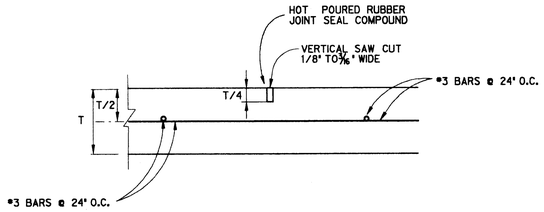
TYPICAL DETAIL
NORMAL FIRE HYDRANT INSTALLATION



STANDARD SUPERIMPOSED CURB FOR CONCRETE PAVEMENT

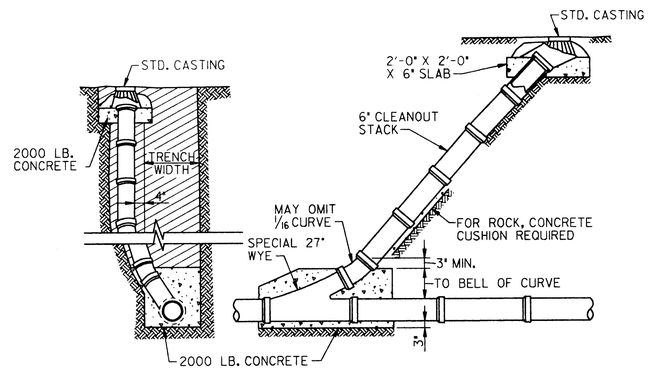
N.T.S.

THIS SECTION MAY BE USED AS AN ALTERNATE METHOD FOR CONSTRUCTING THE ATTACHED CURB, IF CURB SECTION IS POURED AFTER THE PAVING SLAB HAS BEEN CONSTRUCTED.

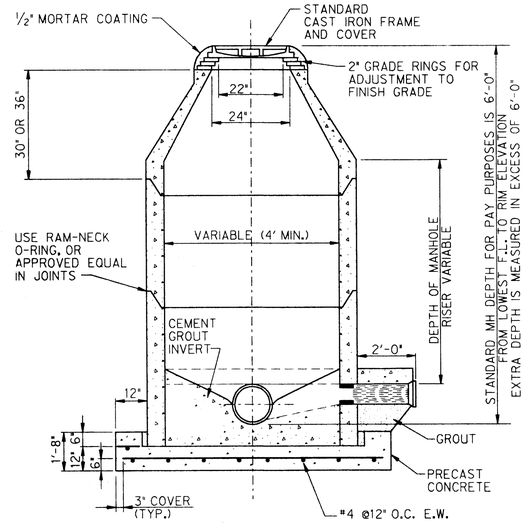


TRANSVERSE OR LONGITUDINAL SAWED DUMMY JOINT (15' C-C MAX.)

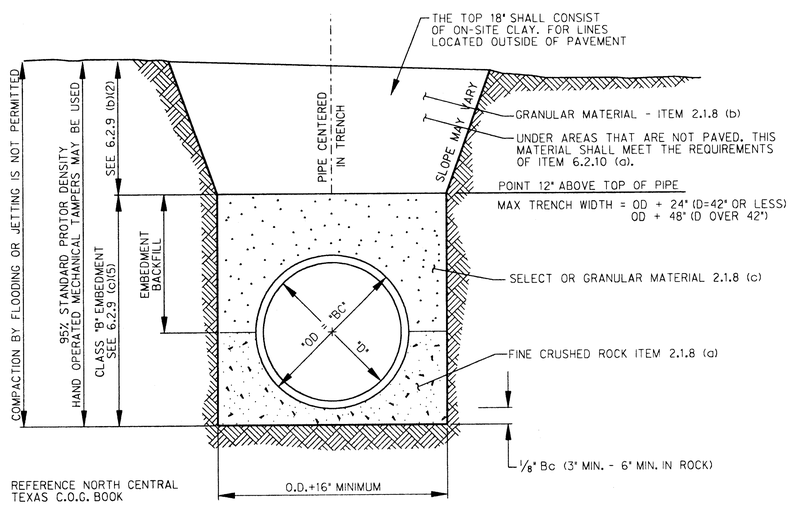
N.T.S.



STANDARD CLEANOUT

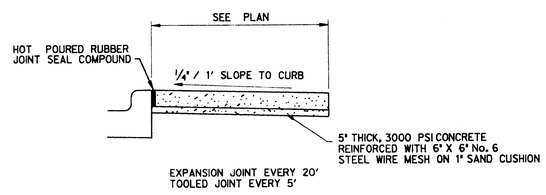


PRECAST MANHOLE
CONCENTRIC



TYPICAL PIPE INSTALLATION DETAIL WATER, SEWER, STORM SEWER

N.T.S.



TYPICAL SECTION SIDEWALK DETAIL

N.T.S.

STATE OF TEXAS
LOUIS B. HUND III
77643
REGISTERED
PROFESSIONAL ENGINEER
7/9/97

SITE DETAILS						
COMMERCIAL STRUCTURES & INTERIORS						
FIRST BAPTIST CHURCH						
CITY OF CELINA, TEXAS						
HALFF ASSOCIATES, INC. ENGINEERS • SCIENTISTS • SURVEYORS						
DESIGN	DRAWN	DATE	SCALE	AVG	FILE	NO.
JNF	BCH	JULY 1997	AS NOTED	16212	6212DET	7

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6212det.dgn, lvc, 1-62
Mon Jul 7 14:50:11 1997
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FULL.TBL

P-199707-01