PLANS FOR CONSTRUCTION OF

CARTER RANCH - PHASE I

AN ADDITION TO THE CITY OF CELINA, TEXAS

RECORD DRAWING

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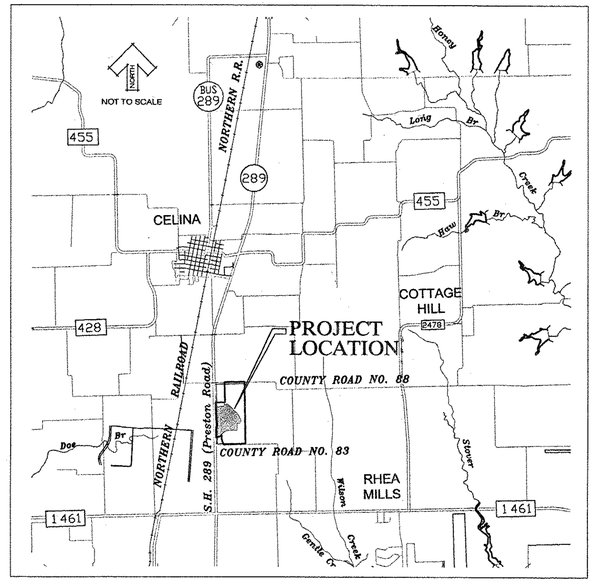
STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER

DATE: 2/5/04

GENERAL NOTES

1. Prior to any construction the Contractor shall familiarize himself with the Contract Documents and Specifications, the Plans including all notes, and other applicable standards or specifications relevant to the proper completion of the work specified. Failure on the part of the Contractor to familiarize himself with all Standards or Specifications pertaining to this work shall in no way relieve the Contractor of responsibility for performing the work in accordance with all such applicable Standards and Specifications.
2. Contractor shall have in his possession, prior to construction, all necessary permits, licenses, etc. Contractor shall have at least one set of approved Engineering Plans and Specifications on-site at all times.
3. ALL work shall conform to the North Texas Central Texas Council of Governments (NCTCOG) Standard Specifications for Public Works Construction. The Engineer's decision shall apply in the event an item is not covered by NCTCOG. The Engineer shall have final decision on all construction materials, methods, and procedures.
4. Construction inspection will be performed by representatives of the Owner, Engineer, Geotechnical Engineer, and reviewing authorities and agencies. Unrestricted access shall be provided to them at all times. Contractor is responsible for understanding and scheduling required inspections.
5. All contractors must confine their activities to the work area. No encroachments onto developed or undeveloped areas will be allowed, unless specifically noted on plans. Any damage resulting there from, shall be Contractor's responsibility to repair.
6. It will be the responsibility of each contractor to protect all existing public and private utilities throughout the construction of this project. Contractor shall contact the appropriate utility companies for line locations prior to commencement of construction and shall assume full liability to those companies for any damages caused to their facilities. Call 1-800-DIG-TESS.
7. One time construction staking will be performed by Owner's Engineer.
8. If unforeseen problems or conflicts are encountered in the construction, for which an immediate solution is not apparent, the Engineer and Owner shall be notified immediately.
9. Contractors shall be responsible for precise utility field locations and working around existing utilities and improvements.
10. Traffic control measures shall be installed for any work activity that takes place on or adjacent to any public street or roadway. Traffic control measures shall conform to Part IV of the TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
11. After topsoil is stripped and stockpiled, fill shall be compacted as recommended by Rone Engineers in their Geotechnical Engineering Report No. 02-6605. Subgrade to receive moisture conditioned clay should be scarified to a depth of 6 inches and compacted to 92-96 % of the materials Standard Proctor dry density (ASTM D698) at a workable moisture content at least 3 percentage points above optimum. The clays to be used as fill can then be placed in loose lifts less than 10 inches, compacted to similar density and moisture content.

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER
4/9/03



VICINITY MAP
(NOT TO SCALE)

RECEIVED
APR 26
CITY OF CELINA

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PREPARED FOR :

CENTURION AMERICAN DEVELOPMENT GROUP
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APRIL, 2003

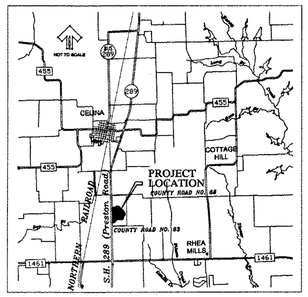
01312222\LDD\CARTER RANCH - PHASE 1\DWG\312222COVR2.DWG

Construction Plans - Carter Ranch, Ph. 1

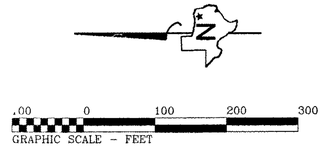
P-200304-01

FINAL PLAT
THE CARTER RANCH-PHASE I

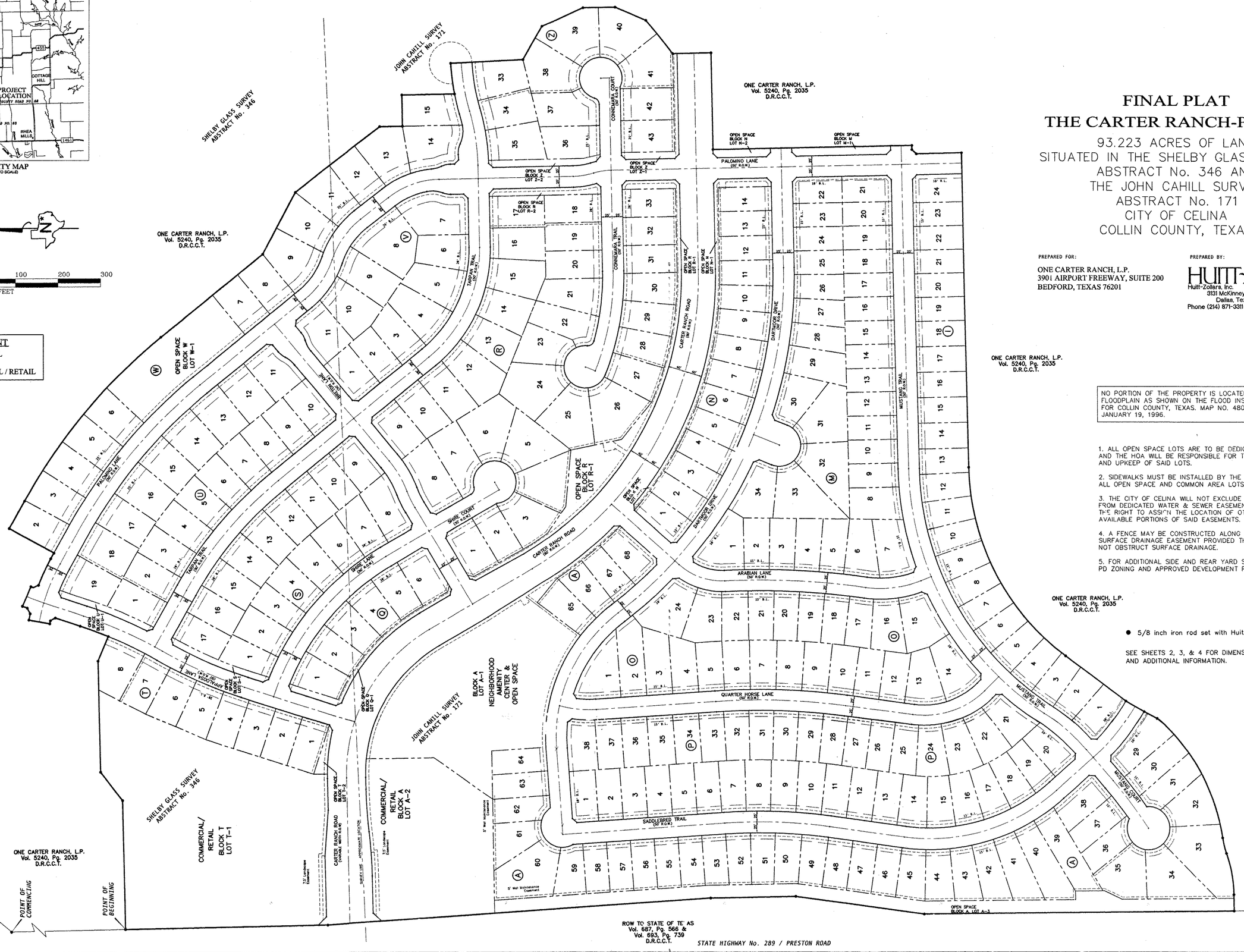
93.223 ACRES OF LAND
SITUATED IN THE SHELBY GLASS SURVEY
ABSTRACT No. 346 AND
THE JOHN CAHILL SURVEY
ABSTRACT No. 171
CITY OF CELINA
COLLIN COUNTY, TEXAS



VICINITY MAP
(NOT TO SCALE)



LOT COUNT
293 RESIDENTIAL
14 OPEN SPACE
2 COMMERCIAL / RETAIL



PREPARED FOR:

ONE CARTER RANCH, L.P.
3901 AIRPORT FREEWAY, SUITE 200
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NO PORTION OF THE PROPERTY IS LOCATED IN THE 100 YEAR FLOODPLAIN AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR COLLIN COUNTY, TEXAS. MAP NO. 48085C0125 G DATED JANUARY 19, 1996.

1. ALL OPEN SPACE LOTS ARE TO BE DEDICATED TO THE HOA AND THE HOA WILL BE RESPONSIBLE FOR THE MAINTENANCE AND UPKEEP OF SAID LOTS.

2. SIDEWALKS MUST BE INSTALLED BY THE DEVELOPER ALONG ALL OPEN SPACE AND COMMON AREA LOTS.

3. THE CITY OF CELINA WILL NOT EXCLUDE OTHER UTILITIES FROM DEDICATED WATER & SEWER EASEMENTS BUT RESERVES THE RIGHT TO ASSIGN THE LOCATION OF OTHER UTILITIES IN AVAILABLE PORTIONS OF SAID EASEMENTS.

4. A FENCE MAY BE CONSTRUCTED ALONG LOT LINES WITHIN A SURFACE DRAINAGE EASEMENT PROVIDED THE FENCE DOES NOT OBSTRUCT SURFACE DRAINAGE.

5. FOR ADDITIONAL SIDE AND REAR YARD SETBACKS, REFER TO PD ZONING AND APPROVED DEVELOPMENT PLAN.

● 5/8 inch iron rod set with Huitt-Zollars cap

SEE SHEETS 2, 3, & 4 FOR DIMENSIONS, EASEMENTS, AND ADDITIONAL INFORMATION.

FILED FOR RECORD IN: COLLIN COUNTY, MCKINNEY TX
HONORABLE BRENDA TAYLOR, COLLIN COUNTY CLERK
ON DECEMBER 22, 2003 11:56 AM
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RECEIPT# 50108
P 372

FINAL PLAT
THE CARTER RANCH-PHASE I

93.223 ACRES OF LAND
SITUATED IN THE SHELBY GLASS SURVEY
ABSTRACT No. 346 AND
THE JOHN CAHILL SURVEY
ABSTRACT No. 171
CITY OF CELINA
COLLIN COUNTY, TEXAS

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ALL LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION USING 5/8" X 18" REBAR WITH YELLOW PLASTIC CAP STAMPED "HUITT-ZOLLARS". THE CENTERLINE OF THE STREET RIGHT-OF-WAY WILL BE MONUMENTED WITH A SCRIBED "X" IN CONCRETE AT THE P.C.'S, P.T.'S AND INTERSECTION POINTS.

LOT COUNT
293 RESIDENTIAL
14 OPEN SPACE
2 COMMERCIAL / RETAIL

BASIS OF BEARINGS:
THE DEED TO ONE CARTER RANCH, L.P. AS RECORDED IN VOLUME 5240, PAGE 2035 OF THE DEED RECORDS OF COLLIN COUNTY, TEXAS.

60 0 60 120 180
GRAPHIC SCALE - FEET

● 5/8 inch iron rod set with Huitt-Zollars cap

COUNTY ROAD No. 88
POINT OF COMMENCING
POINT OF BEGINNING
STATE HIGHWAY No. 289 / PRESTON ROAD
S 01°06'00"E 2054.64'
N 01°06'00"W 475.43'
N 03°58'00"W 901.12'
N 88°53'53"E 300.89'
N 51°45'07"E 82.80'
N 88°54'00"E 264.00'
S 67°19'40"E 63.16'
N 10°27'49"E 50.00'
N 18°31'05"E 61.52'
S 66°30'14"E 50.00'
N 29°01'16"E 120.00'
S 60°58'14"E 74.46'
S 39°10'34"E 308.87'
S 62°12'06"E 164.38'
S 39°00'00"E
Δ = 21°48'10"
R = 1325.00'
L = 504.20'
CB = S 50°04'39"E
CH = 501.16'

ONE CARTER RANCH, L.P.
Vol. 5240, Pg. 2035
D.R.C.C.T.

SHELBY GLASS SURVEY
ABSTRACT No. 346

JOHN CAHILL SURVEY
ABSTRACT No. 171

COMMERCIAL/ RETAIL BLOCK T LOT T-1
COMMERCIAL/ RETAIL BLOCK A LOT A-2
OPEN SPACE BLOCK U LOT U-1
OPEN SPACE BLOCK S LOT S-1
OPEN SPACE BLOCK T LOT T-2
OPEN SPACE BLOCK Q LOT Q-1
OPEN SPACE BLOCK W LOT W-1
BLOCK A LOT A-1 NEIGHBORHOOD AMENITY CENTER & OPEN SPACE

CARTER RANCH ROAD (VARIABLE WIDTH R.O.W.)
APPALOOSA LANE (50' R.O.W.)
PALOMINO LANE (50' R.O.W.)
TARPAN TRAIL (50' R.O.W.)
SHIRE LANE (50' R.O.W.)
SHIRE COURT (50' R.O.W.)
BRETON LANE (50' R.O.W.)

MATCH LINE SHEET No. 4

PREPARED FOR:
ONE CARTER RANCH, L.P.
3901 AIRPORT FREEWAY, SUITE 200
BEDFORD, TEXAS 76201

PREPARED BY:
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Phone (214) 871-3311 Fax (214) 871-0757

VICINITY MAP
(NOT TO SCALE)
PROJECT LOCATION
COUNTY ROAD No. 88
CELINA
COTTAGE HILL
RHEA MILLS

FILED FOR RECORD IN COLLIN COUNTY, MCKINNEY TX
HONORABLE BRENDA TAYLOR, COLLIN COUNTY CLERK
DOCUMENT NO. 20030822-0200096
RECORDING TYPE: PL 61.00
RECEIPT: 50108
P 373

SHEET 2 OF 5 SCALE 1" = 60' DATE: DECEMBER 1, 2003

Project No. P-200304-01

FINAL PLAT
THE CARTER RANCH-PHASE I

93.223 ACRES OF LAND
SITUATED IN THE SHELBY GLASS SURVEY
ABSTRACT No. 346 AND
THE JOHN CAHILL SURVEY
ABSTRACT No. 171
CITY OF CELINA
COLLIN COUNTY, TEXAS

PREPARED FOR:
ONE CARTER RANCH, L.P.
3901 AIRPORT FREEWAY, SUITE 200
BEDFORD, TEXAS 76201

PREPARED BY:
HUITT-ZOLLARS
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Phone (214) 871-3311 Fax (214) 871-0757

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GRAPHIC SCALE – FEET (60 0 60 120 180)

● 5/8 inch iron rod set with Huitt-Zollars cap

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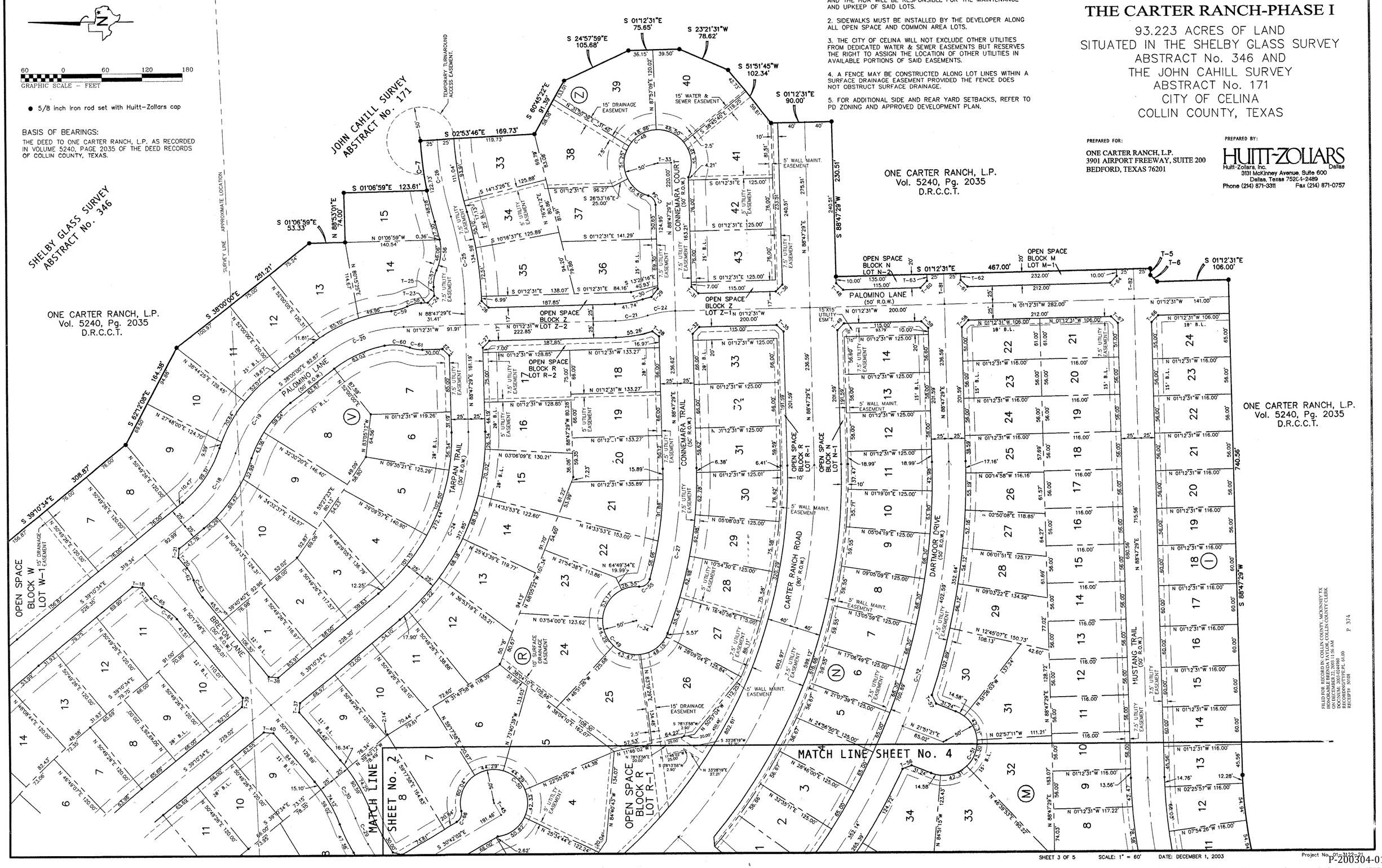

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HONORABLE BRENDA SHELTON, COUNTY CLERK
DOCNUM: 2003-0244560 P 374
RECORDING TYPE: PL 60.00
RECEIPT# 69908

SHEET 3 OF 5 SCALE: 1" = 60' DATE: DECEMBER 1, 2003

Project No. 01-3122-21

P-200304-01

FINAL PLAT
THE CARTER RANCH-PHASE I

93.223 ACRES OF LAND
SITUATED IN THE SHELBY GLASS SURVEY
ABSTRACT No. 346 AND
THE JOHN CAHILL SURVEY
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CITY OF CELINA
COLLIN COUNTY, TEXAS

PREPARED FOR:
ONE CARTER RANCH, L.P.
3901 AIRPORT FREEWAY, SUITE 200
BEDFORD, TEXAS 76201

PREPARED BY:
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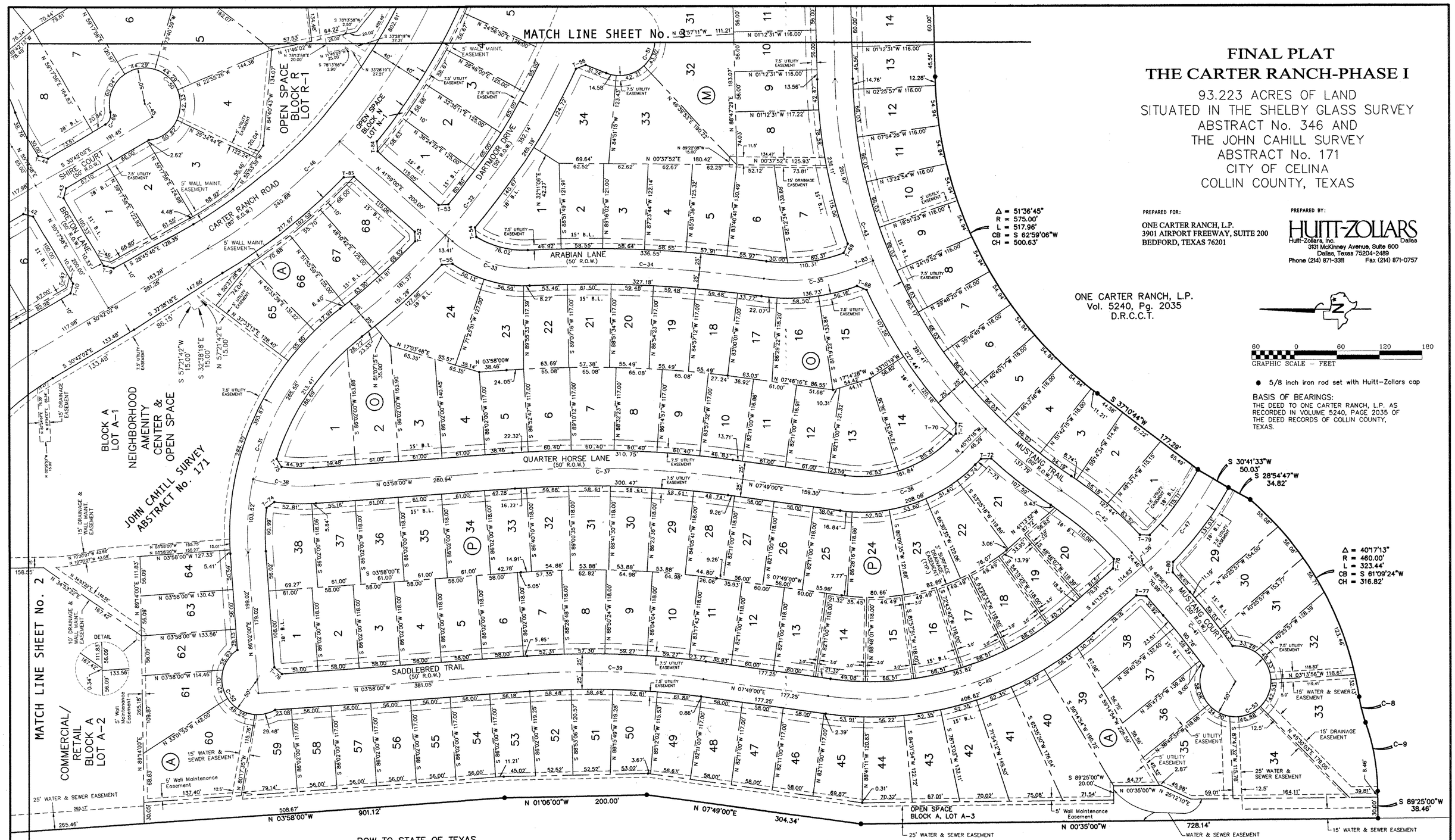

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FILED FOR RECORD IN: COLLIN COUNTY, MCKINNEY TX
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ON DECEMBER 22, 2003 11:56 AM
DOC/NUM: 2003-0244960
RECORDING/TYPE:PL 61.00
RECEIPT# 50108
P 375

TANGENT TABLE		
COURSE	BEARING	DISTANCE
T-1	N 29°41'06"W	13.33'
T-2	N 62°14'45"E	15.18'
T-3	S 23°50'59"E	13.88'
T-4	S 60°58'44"E	14.72'
T-5	S 88°47'29"W	10.00'
T-6	S 43°47'29"W	14.14'
T-7	S 88°54'00"W	26.81'
T-8	S 42°28'00"W	27.57'
T-9	N 14°17'58"E	14.14'
T-10	N 75°42'02"W	14.14'
T-11	N 61°06'27"E	14.61'
T-12	N 25°01'41"W	14.61'
T-13	N 64°32'05"E	13.77'
T-14	N 25°35'05"W	14.48'
T-15	N 74°18'44"E	14.21'
T-16	N 16°49'03"W	14.35'
T-17	N 64°21'51"E	13.93'
T-18	S 05°33'37"W	14.21'
T-19	S 50°17'48"W	20.63'
T-20	N 50°17'48"E	19.99'
T-21	S 84°26'23"E	14.08'
T-22	N 43°47'29"E	14.14'
T-23	S 01°12'31"E	9.99'
T-24	S 46°44'57"E	14.01'
T-25	N 85°14'50"E	13.23'
T-26	S 43°47'29"W	14.16'
T-27	N 46°12'31"W	14.14'
T-28	N 36°52'46"E	12.34'
T-29	S 51°08'02"E	15.30'
T-30	N 88°47'29"E	5.00'
T-31	S 43°47'29"W	14.14'
T-32	N 46°12'31"W	14.14'
T-33	N 01°12'31"W	20.00'
T-34	N 21°45'58"E	25.00'
T-35	N 43°47'29"E	14.14'
T-36	S 46°12'31"E	14.14'
T-37	S 84°26'23"E	14.08'
T-38	N 05°33'37"E	14.21'
T-39	N 84°26'23"W	14.08'
T-40	S 05°33'37"W	14.21'
T-41	N 75°42'01"W	14.14'
T-42	S 14°17'58"W	14.14'
T-43	S 75°42'02"E	14.14'
T-44	N 14°17'59"E	14.14'
T-45	N 59°17'59"E	20.49'
T-46	N 14°17'58"E	14.62'
T-47	N 75°42'02"W	14.14'
T-48	S 43°47'29"W	14.14'
T-49	N 46°12'31"W	14.14'
T-50	S 85°59'26"W	14.39'
T-51	N 01°57'46"W	14.40'
T-52	S 6[illegible]°53'29"W	13.92'
T-53	S 03°52'19"E	13.93'
T-54	S 82°24'59"W	13.41'
T-55	N 04°49'45"W	14.98'
T-56	N 21°36'19"W	14.52'
T-57	N 65°19'09"E	14.52'
T-58	N 46°12'31"W	14.14'
T-59	N 43°47'29"E	14.14'
T-60	S 46°12'31"E	14.14'
T-61	N 43°47'29"E	14.14'
T-62	N 88°47'29"E	10.00'
T-63	N 88°47'29"E	10.00'
T-64	S 46°12'31"E	14.14'
T-65	N 46°12'31"W	14.14'
T-66	N 46°12'31"W	14.14'
T-67	N 43°47'29"E	14.14'
T-68	N 22°03'14"E	14.52'
T-69	S 65°32'26"E	14.31'
T-70	S 45°10'16"E	11.72'
T-71	S 89°00'40"E	14.43'
T-72	N 01°19'52"W	14.43'
T-73	N 45°10'16"W	11.72'
T-74	N 36°56'04"W	13.84'
T-75	N 57°42'30"E	13.13'
T-76	S 41°02'00"W	14.14'
T-77	N 03°51'19"E	14.12'
T-78	S 85°07'33"E	13.76'
T-79	S 01°34'35"W	13.72'
T-80	N 87°52'05"W	14.58'
T-81	N 88°47'29"E	45.00'
T-82	N 88°47'29"E	45.00'
T-83	S 22°10'18"E	25.98'
T-84	S 85°59'26"W	14.39'
T-85	N 01°57'46"W	14.40'

CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	CHORD	CH.BEARING
C-1	975.00'	70.69'	4°09'16"	70.68'	N 20°35'42"E
C-2	425.00'	7.23'	0°58'28"	7.23'	N 79°02'57"W
C-3	475.00'	14.80'	1°47'07"	14.80'	S 78°38'37"E
C-4	522.92'	11.94'	1°18'30"	11.94'	N 22°58'31"E
C-5	472.92'	5.81'	0°42'14"	5.81'	S 23°08'39"W
C-6	475.00'	68.84'	8°18'15"	68.78'	S 65°07'51"E
C-7	525.00'	74.45'	8°07'30"	74.39'	N 83°02'29"E
C-8	200.00'	37.21'	10°39'38"	37.16'	S 75°58'11"W
C-9	300.00'	98.32'	18°46'38"	97.88'	S 80°01'41"W
C-10	987.50'	98.18'	5°41'47"	98.14'	S 86°03'06"W
C-11	1037.50'	103.15'	5°41'47"	103.11'	S 86°03'06"W
C-12	1000.00'	211.62'	12°07'29"	211.22'	N 24°06'08"E
C-13	1000.00'	203.27'	11°38'47"	202.92'	N 24°20'28"E
C-14	497.92'	43.26'	4°58'41"	43.25'	N 21°00'25"E
C-15	450.00'	45.81'	5°49'57"	45.79'	S 76°37'12"E
C-16	450.00'	99.94'	12°43'30"	99.74'	S 67°20'29"E
C-17	1180.00'	449.02'	21°48'10"	446.32'	S 58°06'39"E
C-18	200.00'	113.58'	32°30'54"	111.98'	S 55°26'01"E
C-19	200.00'	117.60'	33°41'29"	115.92'	S 54°50'44"E
C-20	200.00'	128.43'	36°47'29"	126.23'	S 19°36'16"E
C-21	175.00'	48.69'	15°56'33"	48.54'	S 09°10'47"E
C-22	150.00'	41.74'	15°56'33"	41.60'	S 09°10'47"E
C-23	890.00'	338.67'	21°48'10"	336.63'	S 58°06'39"E
C-24	325.00'	295.14'	52°01'57"	285.11'	S 65°11'33"E
C-25	500.00'	131.61'	15°04'53"	131.23'	N 81°15'02"E
C-26	500.00'	116.88'	13°23'38"	116.62'	N 80°24'25"E
C-27	600.00'	240.56'	22°58'19"	238.95'	S 79°43'12"E
C-28	600.00'	432.07'	41°15'35"	422.80'	S 51°19'49"E
C-29	250.00'	43.07'	9°52'16"	43.02'	N 64°14'07"E
C-30	250.00'	82.35'	18°52'27"	81.98'	N 59°44'01"E
C-31	375.00'	369.07'	56°23'22"	354.35'	S 65°46'19"E
C-32	1000.00'	936.11'	53°38'07"	902.30'	S 64°23'28"E
C-33	150.00'	116.81'	44°37'03"	113.88'	N 19°40'29"E
C-34	1770.00'	331.87'	10°44'34"	331.38'	N 02°44'14"E
C-35	250.00'	132.12'	30°16'49"	130.59'	N 07°01'54"W
C-36	200.00'	184.96'	52°59'16"	178.44'	N 18°40'38"W
C-37	1486.00'	305.61'	11°47'00"	305.07'	N 01°55'30"E
C-38	250.00'	87.78'	20°06'01"	87.25'	N 06°05'01"E
C-39	1200.00'	246.79'	11°47'00"	246.35'	N 01°55'30"E
C-40	450.00'	385.22'	49°02'53"	373.57'	N 16°42'26"W
C-41	1000.00'	136.94'	7°50'47"	136.84'	N 52°51'54"E
C-42	500.00'	132.11'	15°08'20"	131.73'	N 41°22'21"E
C-43	716.00'	687.16'	54°59'18"	661.09'	N 61°17'50"E
C-44	355.00'	43.27'	6°58'59"	43.24	N 87°36'38"W
C-45	400.00'	421.67'	60°23'58"	402.41'	S 60°54'01"E
C-46	800.00'	844.85'	60°30'29"	806.14'	S 60°57'16"E
C-47	450.00'	156.72'	19°57'16"	155.93'	S 51°12'31"E
C-48	50.00'	242.53'	277°55'18"	65.66'	N 24°19'39"W
C-49	50.00'	221.21'	253°29'05"	80.13'	N 58°30'30"E
C-50	50.00'	241.77'	277°02'51"	66.23'	N 35°17'10"E
C-51	50.00'	157.08'	180°00'00"	100.00'	N 68°08'39"W
C-52	50.00'	153.45'	175°50'31"	99.93'	N 58°06'45"E
C-53	50.00'	261.79'	299°59'04"	50.01'	N 34°27'09"W
C-54	15.00'	18.87'	72°04'47"	17.65'	N 52°45'05"E
C-55	15.00'	20.91'	79°52'18"	19.26'	N 34°41'06"W
C-56	70.00'	46.42'	37°59'42"	45.57'	S 83°59'59"W
C-57	50.00'	25.82'	29°35'01"	25.53'	N 79°47'39"W
C-58	50.00'	21.48'	24°36'49"	21.31'	S 13°30'56"E
C-59	70.00'	24.59'	20°07'41"	24.46'	S 15°45'30"E
C-60	70.00'	38.28'	31°20'11"	37.81'	S 84°51'14"W
C-61	50.00'	18.96'	21°43'59"	18.85'	S 89°39'24"W
C-62	50.00'	20.56'	23°33'2[illegible]"	20.41'	S 62°04'30"W
C-63	70.00'	28.78'	23°33'23"	28.58'	S 62°04'30"W
C-64	70.00'	28.78'	23°33'23"	28.58'	N 38°31'06"E
C-65	50.00'	20.56'	23°33'23"	20.41'	N 38°31'06"E
C-66	15.00'	18.99'	72°32'14"	17.75'	N 66°58'08"W
C-67	207.50'	23.67'	6°32'07"	23.66'	N 07°14'04"W
C-68	192.50'	21.96'	6°32'07"	21.95'	N 07°14'04"W
C-69	207.50'	27.48'	7°35'28"	27.46'	N 06°42'28"W
C-70	192.50'	32.71'	9°44'07"	32.67'	N 05°38'04"W

KNOW ALL MEN BY THESE PRESENTS:

THAT, I, Eric J. Yahoudy do hereby certify that this prepared plat was from an actual and accurate survey of the land and that the corner monuments shown thereon were properly placed under personal supervision, in accordance with the subdivision regulations of the City of Celina, Texas.

Signature: [signature]

Date: 12/8/03

STATE OF TEXAS REGISTERED ERIC JOHN YAHOUDY 4862 PROFESSIONAL LAND SURVEYOR

STATE OF TEXAS
COUNTY OF DALLAS

Before me, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared Eric J. Yahoudy, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and considerations therein expressed.

Given under my hand and seal of office, this 8th day of December 2003.

E Darlene Fannon
Notary Public in and for the State of Texas

9/20/04
My Commission Expires On:

E DARLENE FANNON NOTARY PUBLIC State of Texas Comm. Exp. 09-20-2004

STATE OF TEXAS
COUNTY OF COLLIN

OWNER'S DEDICATION

WHEREAS, ONE CARTER RANCH, L.P. is the owner of a tract of land situated in the Shelby Glass Survey, Abstract No 346 and the John Cahill Survey, Abstract No. 171, in the City of Celina, Collin County, Texas, and being a portion of a tract of land as described in deed to One Carter Ranch, L.P. and recorded in Volume 5240, Page 2035 of the Deed Records of Collin County, Texas, and being more particularly described as follows:

COMMENCING at a five-eighths inch iron rod found with "Huitt-Zollars" cap at the most westerly northwest corner of a tract of land as described in deed to S.H. 289 Investment Partners, recorded in Volume 4971, Page 3584, of the Deed Records of Collin County, Texas, said point being on the east right-of-way line of State Highway No. 289 at the southwest end of a right-of-way clip for County Road No. 88;

THENCE, South 01 degree 06 minutes 00 seconds East along the east right-of-way line of State Highway No. 289 a distance of 2,054.64 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the **POINT OF BEGINNING;**

THENCE, North 88 degrees 53 minutes 53 seconds East departing the east right-of-way line of State Highway No. 289 a distance of 300.89 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, North 51 degrees 45 minutes 07 seconds East a distance of 82.80 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, North 88 degrees 54 minutes 00 seconds East a distance of 264.00 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 67 degrees 19 minutes 40 seconds East a distance of 63.16 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the beginning of a non-tangent curve to the left;

THENCE, along said curve to the left through central angle of 04 degrees 09 minutes 16 seconds, having a radius of 975.00 feet and an arc length of 70.69 feet, being subtended by a chord of North 20 degrees 35 minutes 42 seconds East a distance of 70.68 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, North 18 degrees 31 minutes 05 seconds East a distance of 61.52 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, North 29 degrees 41 minutes 06 seconds West a distance of 13.33 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the beginning of a non-tangent curve to the left;

THENCE, along said curve to the left through central angle of 00 degrees 58 minutes 28 seconds, having a radius of 425.00 feet and an arc length of 7.23 feet, being subtended by a chord of North 79 degrees 02 minutes 57 seconds West a distance of 7.23 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, North 10 degrees 27 minutes 49 seconds East a distance of 50.00 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the beginning of a non-tangent curve to the right;

THENCE, along said curve to the right through central angle of 01 degree 47 minutes 07 seconds, having a radius of 475.00 feet and an arc length of 14.80 feet, being subtended by a chord of South 78 degrees 38 minutes 37 seconds East a distance of 14.80 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, North 62 degrees 14 minutes 45 seconds East a distance of 15.18 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the beginning of a non-tangent curve to the right;

THENCE, along said curve to the right through central angle of 01 degree 18 minutes 30 seconds, having a radius of 522.92 feet and an arc length of 11.94 feet, being subtended by a chord of North 22 degrees 50 minutes 31 seconds East a distance of 11.94 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 66 degrees 30 minutes 14 seconds East a distance of 50.00 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the beginning of a non-tangent curve to the left;

THENCE, along said curve to the left through central angle of 00 degrees 42 minutes 14 seconds, having a radius of 472.92 feet and an arc length of 5.81 feet, being subtended by a chord of South 23 degrees 08 minutes 39 seconds West a distance of 5.81 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 23 degrees 50 minutes 59 seconds East a distance of 13.88 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the beginning of a non-tangent curve to the right;

THENCE, along said curve to the right through central angle of 08 degrees 18 minutes 15 seconds, having a radius of 475.00 feet and an arc length of 68.84 feet, being subtended by a chord of South 65 degrees 07 minutes 51 seconds East a distance of 68.78 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 60 degrees 58 minutes 44 seconds East a distance of 14.72 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, North 29 degrees 01 minute 16 seconds East a distance of 120.00 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 60 degrees 58 minutes 44 seconds East a distance of 74.46 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the beginning of a curve to the right;

THENCE, along said curve to the right through central angle of 21 degrees 48 minutes 10 seconds, having a radius of 1,325.00 feet and an arc length of 504.20 feet, being subtended by a chord of South 50 degrees 04 minutes 39 seconds East a distance of 501.16 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 39 degrees 10 minutes 34 seconds East a distance of 308.87 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 62 degrees 12 minutes 08 seconds East a distance of 1[illegible].38 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 38 degrees 00 minutes 00 seconds East a distance of 2[illegible]1.21 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 01 degree 06 minutes 59 seconds East a distance of 53.33 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, North 88 degrees 53 minutes 01 second East a distance of 74.00 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 01 degree 06 minutes 59 seconds East a distance of 123.61 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the beginning of a non-tangent curve to the right;

THENCE, along said curve to the right through central angle of 08 degrees 07 minutes 30 seconds, having a radius of 525.00 feet and an arc length of 74.45 feet, being subtended by a chord of North 83 degrees 02 minutes 29 seconds East a distance of 74.39 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 02 degrees 53 minutes 46 seconds East a distance of 169.73 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 60 degrees 45 minutes 22 seconds East a distance of 91.39 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 24 degrees 57 minutes 59 seconds East a distance of 105.68 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 01 degree 12 minutes 31 seconds East a distance of 15.65 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 23 degrees 21 minutes 31 seconds West a distance of 78.62 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 51 degrees 51 minutes 45 seconds West a distance of 102.34 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 01 degree 12 minutes 31 seconds East a distance of 90.00 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 88 degrees 47 minutes 29 seconds West a distance of 230.51 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 01 degree 12 minutes 31 seconds East a distance of 467.00 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 88 degrees 47 minutes 29 seconds West a distance of 10.00 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 43 degrees 47 minutes 29 seconds West a distance of 14.14 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 01 degree 12 minutes 31 seconds East a distance of 106.00 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 88 degrees 47 minutes 29 seconds West a distance of 740.56 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the beginning of a curve to the left;

THENCE, along said curve to the left through central angle of 51 degrees 36 minutes 45 seconds, having a radius of 575.00 feet and an arc length of 517.96 feet, being subtended by a chord of South 62 degrees 59 minutes 06 seconds West a distance of 500.63 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 37 degrees 10 minutes 44 seconds West a distance of 177.29 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 30 degrees 41 minutes 33 seconds West a distance of 50.03 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 28 degrees 54 minutes 47 seconds West a distance of 34.82 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the beginning of a non-tangent curve to the right;

THENCE, along said curve to the right through central angle of 40 degrees 17 minutes 13 seconds, having a radius of 460.00 feet and an arc length of 323.44 feet, being subtended by a chord of South 61 degrees 09 minutes 24 seconds West a distance of 316.82 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the beginning of a reverse curve to the left;

THENCE, along said curve to the left through central angle of 10 degrees 39 minutes 38 seconds, having a radius of 200.00 feet and an arc length of 37.21 feet, being subtended by a chord of South 75 degrees 58 minutes 11 seconds West a distance of 37.16 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap at the beginning of a reverse curve to the right;

THENCE, along said curve to the right through central angle of 18 degrees 46 minutes 38 seconds, having a radius of 300.00 feet and an arc length of 98.32 feet, being subtended by a chord of South 80 degrees 01 minute 41 seconds West a distance of 97.88 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

THENCE, South 89 degrees 25 minutes 00 seconds West a distance of 38.46 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap on the east right-of-way line of State Highway No. 289;

THENCE along the east right-of-way line of State Highway No. 289 the following courses and distances:

North 00 degrees 35 minutes 00 seconds West a distance of 728.14 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

North 07 degrees 49 minutes 00 seconds East a distance of 304.34 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

North 01 degree 06 minutes 00 seconds West a distance of 200.00 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

North 03 degrees 58 minutes 00 seconds West a distance of 901.12 feet to a five-eighths inch iron rod set with "Huitt-Zollars" cap;

North 01 degree 06 minutes 00 seconds West continuing along the east right-of-way line of State Highway No. 289 a distance of 475.43 feet to the **POINT OF BEGINNING** and **CONTAINING** 93.223 acres of land, more or less.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

That ONE CARTER RANCH, L.P., acting herein by and through his(its) duly authorized officer(s), does hereby adopt this plat designating the herein above described property as THE CARTER RANCH PHASE I, an addition to the City of Celina, Texas, and does hereby dedicate, in fee simple, to the public use forever, the streets, rights-of-way, and other public improvements shown thereon. The streets and alleys, if any, are dedicated for street purposes. The easements and public use areas, as shown, are dedicated, for the public use forever, for the purposes indicated on this plat. No buildings, fences, trees, shrubs or other improvements or growths shall be constructed or placed upon, over or across the easements as shown, except that landscape improvements may be placed in landscape easements, if approved by the City Council of the City of Celina. In addition, utility easements may also be used for the mutual use and accommodation of all public utilities desiring to use or using the same unless the easements limits the use to particular utilities, said use by public utilities being subordinate to the public's and City of Celina's use thereof. The City of Celina and public utilities entities shall have the right to remove and keep removed all or parts of any buildings, fences, trees, shrubs or other improvements or growths which may in any way endanger or interfere with the construction, maintenance, or efficiency of their respective systems in said easements, The City of Celina and public utility entities shall at all times have the full right of ingress and egress to or from their respective easements for the purpose of constructing, reconstructing, inspecting, patrolling, maintaining, reading meters, and adding to or removing all or parts of their respective systems without the necessity at any time procuring permission from anyone.

Thius plat approved subject to all platting ordinances, rules, regulations and resolutions of the City of Celina, Texas,

WITNESS, my hand, this the 11th day of December, 2003.

By: [signature]
Authorized Signature of Owner

Mehrdad Moayedi Manager of OCR Realty Management, L.L.C. General Partner of Carter Ranch, L.P.
Printed Name and Title

STATE OF TEXAS
COUNTY OF Tarrant

Before me, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared Mehrdad Moayedi, Owner, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and considerations therein expressed.

Given under my hand and seal of office, this 11th day of December, 2003.

Laura Wayland
Notary Public in and for the State of Texas

July 14, 2004
My Commission Expires On:

LAURA WAYLAND Notary Public, State of Texas My Commission Expires July 14, 2004

FINAL PLAT
Approved by the City of Celina for filing at the office of the County Clerk of Collin County, Texas.

RECOMMENDED BY:

[signature]
Signature of Chairperson

Planning and Zoning Commission
City of Celina, Texas

10/28/2003
Date of Recommendation

APPROVED BY:

[signature]
Signature of Mayor

City Council
City of Celina, Texas

~~12/2/03~~ 12/9/03
Date of Approval

ATTEST:

Vicki Faulkner
City Secretary

12/9/03
Date

FILED FOR RECORD IN: COLLIN COUNTY, MCKINNEY TX
HONORABLE BRENDA TAYLOR, COLLIN COUNTY CLERK
ON DECEMBER 22, 2003 11:56 AM
DOC/NUM: 2003-0244960 P 376
RECORDING/TYPE:PL 61.00
RECEIPT# 50108

FINAL PLAT
THE CARTER RANCH-PHASE I

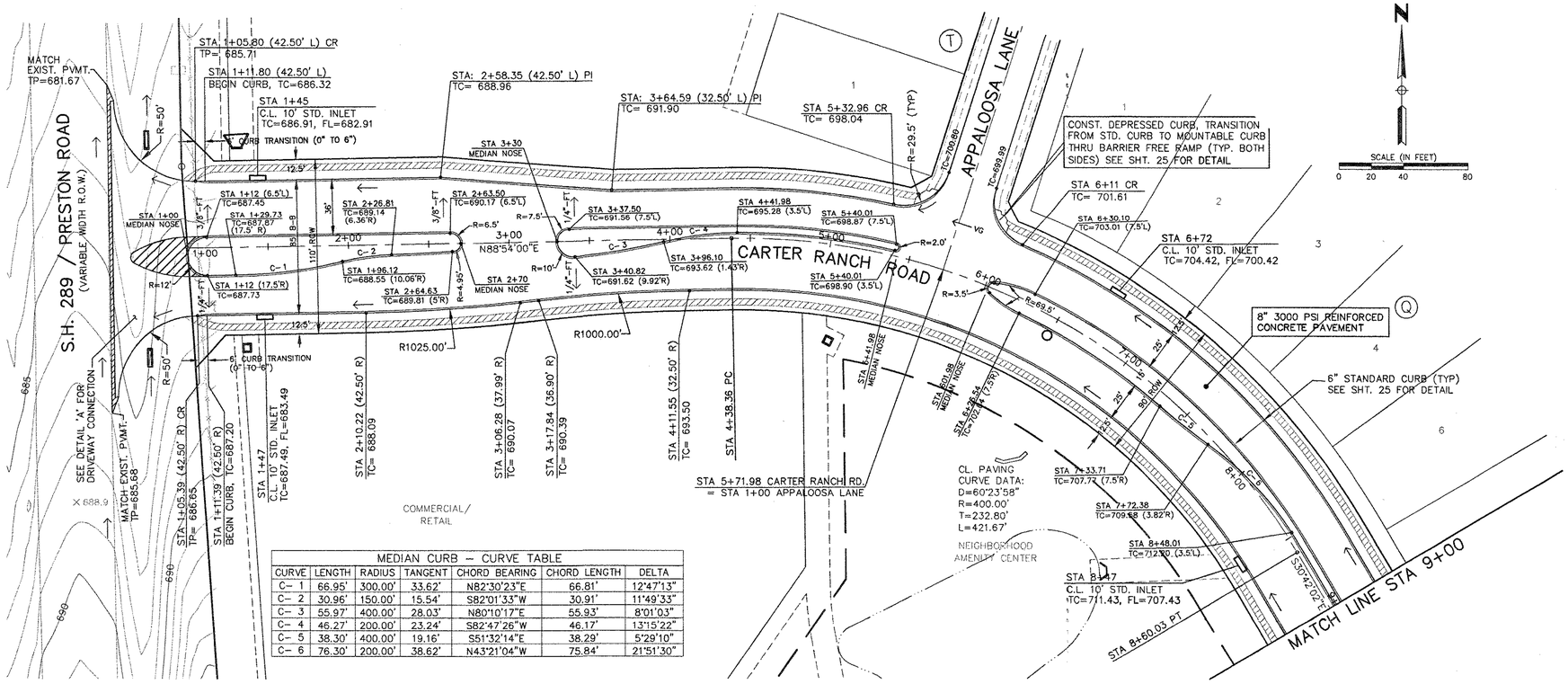
93.223 ACRES OF LAND
SITUATED IN THE SHELBY GLASS SURVEY
ABSTRACT No. 346 AND
THE JOHN CAHILL SURVEY
ABSTRACT No. 171
CITY OF CELINA
COLLIN COUNTY, TEXAS

PREPARED FOR:

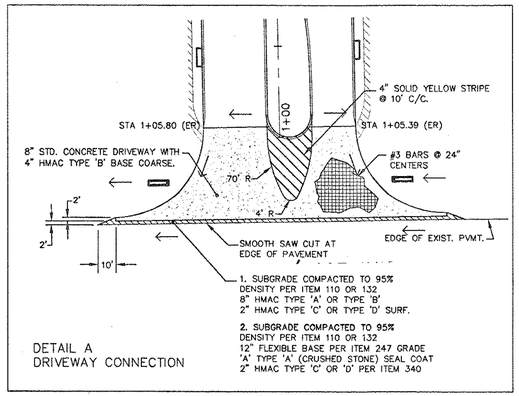
ONE CARTER RANCH, L.P.
3901 AIRPORT FREEWAY, SUITE 200
BEDFORD, TEXAS 76201

PREPARED BY:

HUITT-ZOLLARS
Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757



MEDIAN CURB – CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD BEARING	CHORD LENGTH	DELTA
C– 1	66.95'	300.00'	33.62'	N82°30'23"E	66.81'	12°47'13"
C– 2	30.96'	150.00'	15.54'	S82°01'33"W	30.91'	11°49'33"
C– 3	55.97'	400.00'	28.03'	N80°10'17"E	55.93'	8°01'03"
C– 4	46.27'	200.00'	23.24'	S82°47'26"W	46.17'	13°15'22"
C– 5	38.30'	400.00'	19.16'	S51°32'14"E	38.29'	5°29'10"
C– 6	76.30'	200.00'	38.62'	N43°21'04"W	75.84'	21°51'30"



DETAIL A
DRIVEWAY CONNECTION

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

RECORD DRAWING

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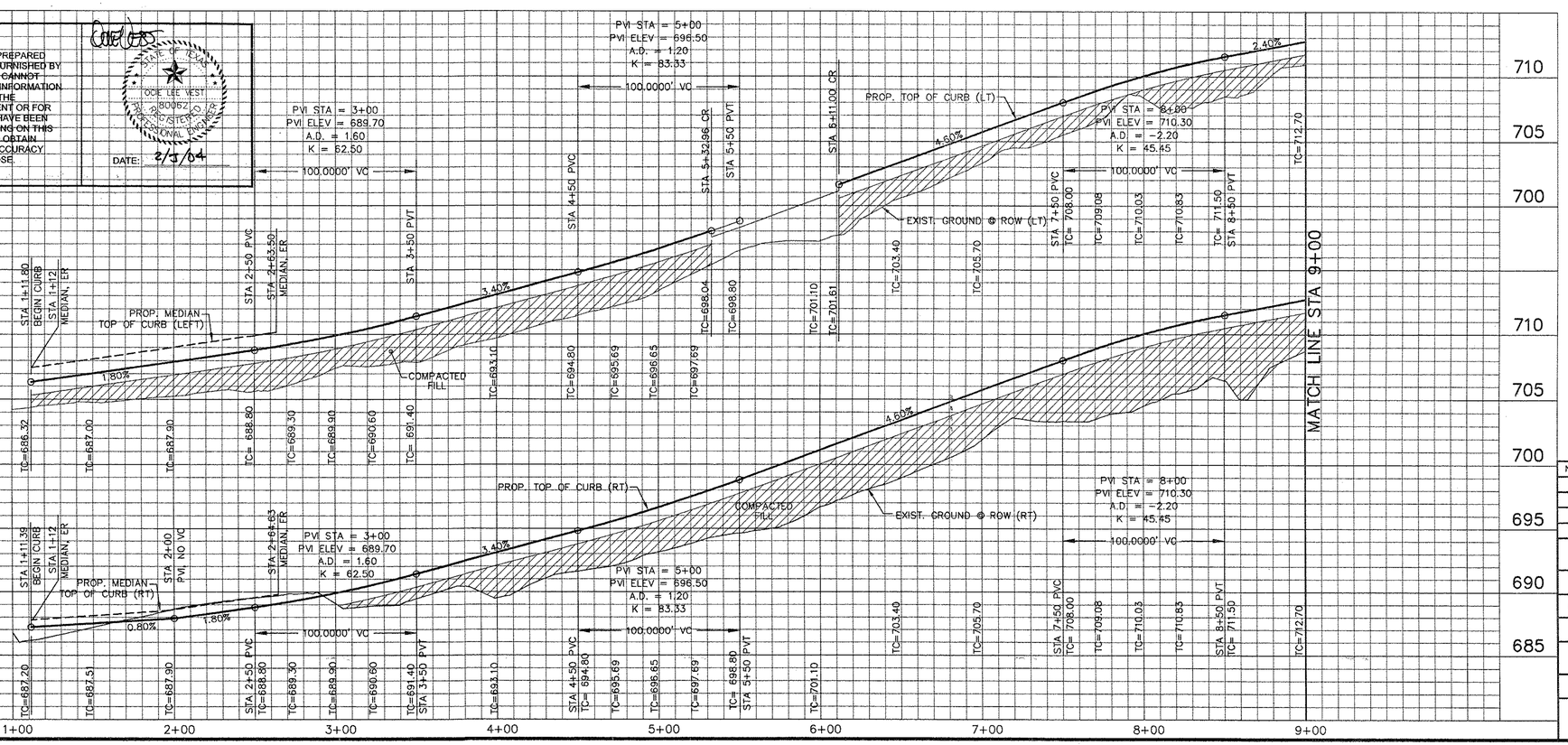
STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04



LEGEND:

STANDARD INTERGRAL CURB

SIDEWALK BY HOME BUILDER

SIDEWALK BY DEVELOPER

NOTE:

1. ALL DIMENSIONS ARE FROM BACK OF CURB.
2. INTERSECTION CURB RADIUS ARE 24.5', EXCEPT AS NOTED
3. SEE SHEET 25 FOR GENERAL PAVING NOTES.

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

CARTER RANCH ROAD

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	5

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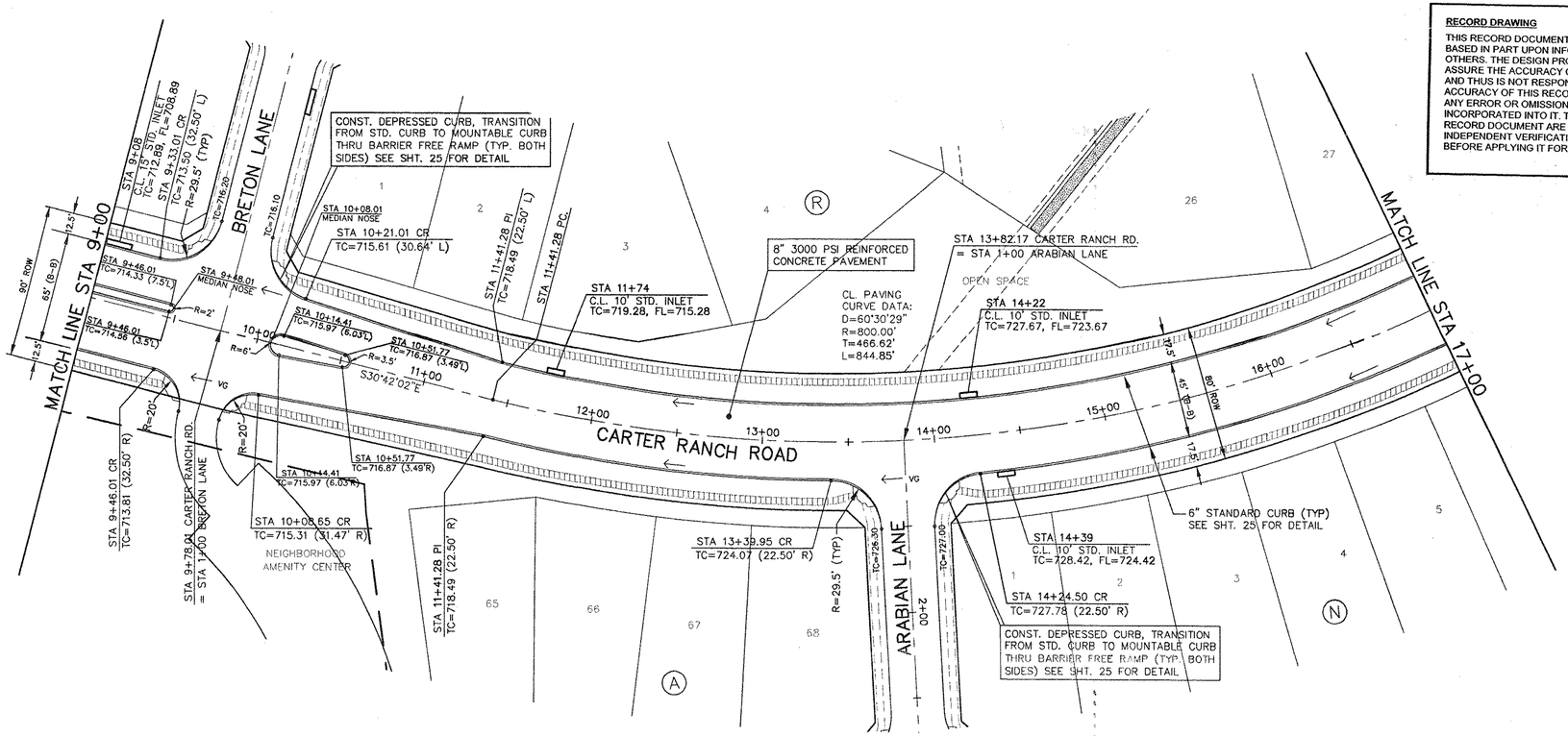
STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/2/04

SCALE (IN FEET) 0 20 40 80



LEGEND:

STANDARD INTERGRAL CURB

SIDEWALK BY HOME BUILDER

SIDEWALK BY DEVELOPER

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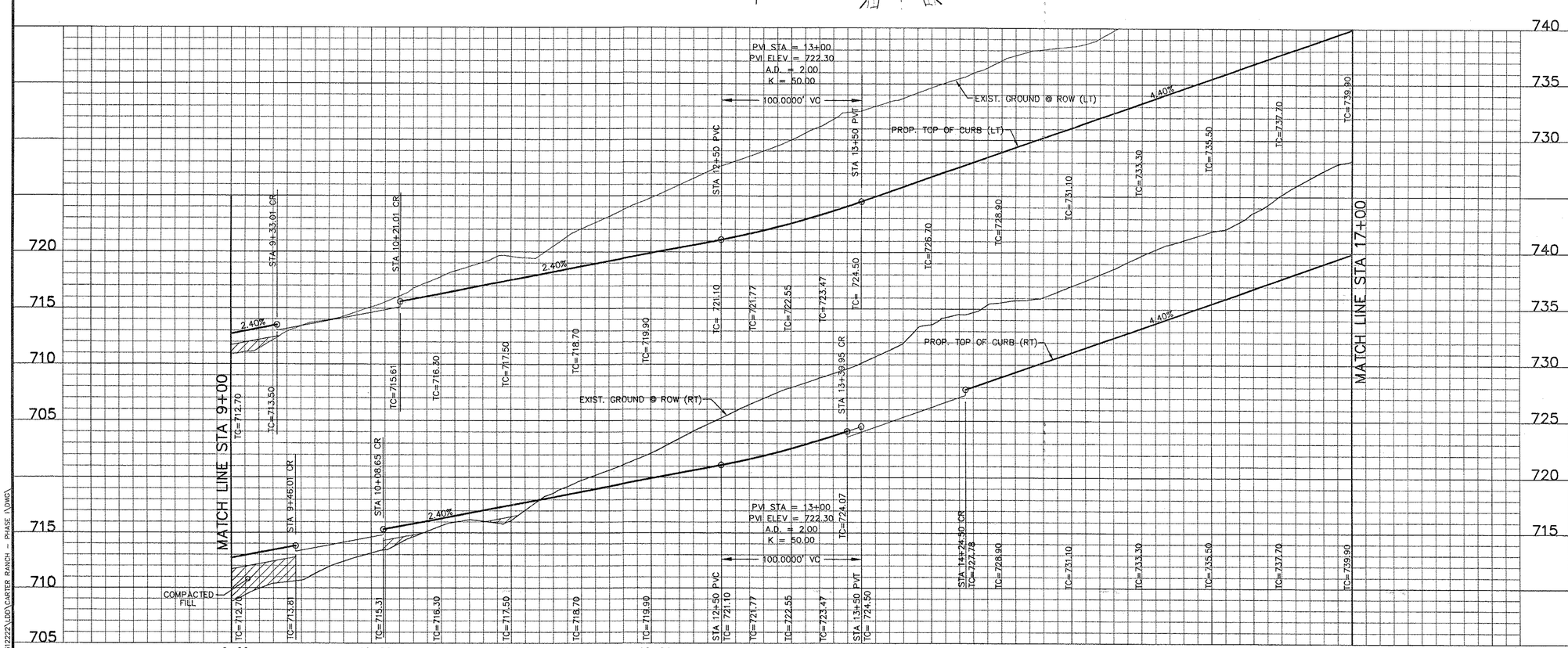
CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289. ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289. ELEVATION 681.76 FEET



STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER — 4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

CARTER RANCH ROAD

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

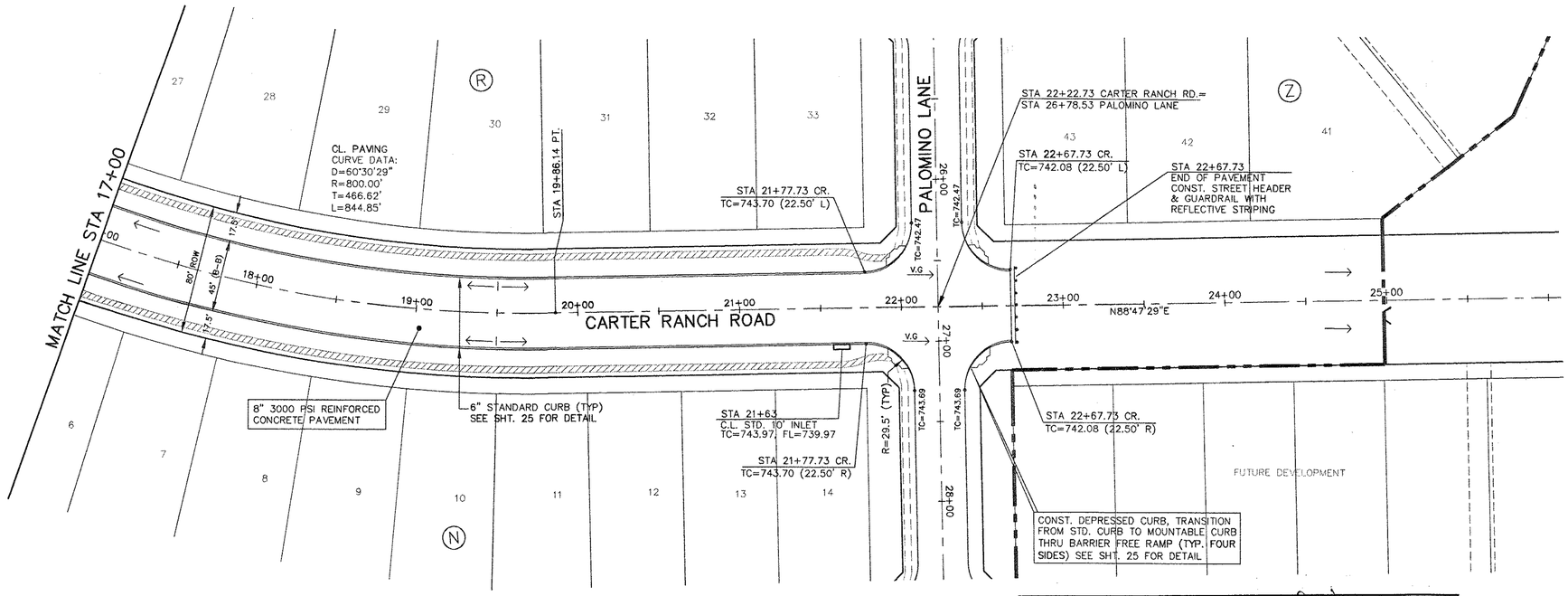
HUITT-ZOLLARS

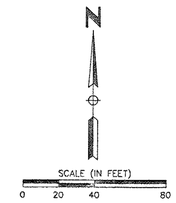
Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	6

01312222\DD\CARTER RANCH – PHASE 1\DWG\

P-200304-01





LEGEND:

STANDARD INTERGRAL CURB

SIDEWALK BY HOME BUILDER

SIDEWALK BY DEVELOPER

NOTE:

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ELEVATION 681.67 FEET

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ELEVATION 681.76 FEET

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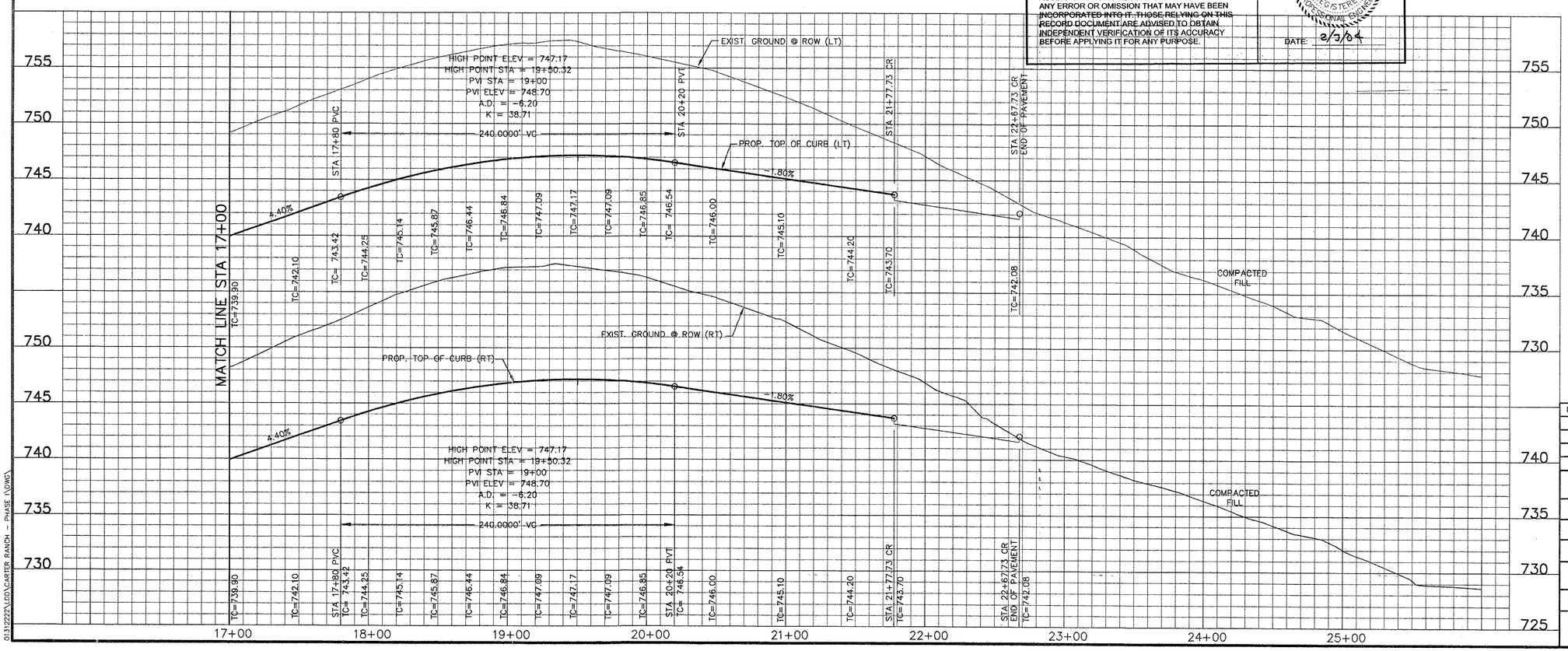
STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER

DATE: 2/3/04



STATE OF TEXAS
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CARTER RANCH - PHASE I

CARTER RANCH ROAD

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

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3101 McKinney Avenue, Suite 800
Dallas, Texas 75204-2489
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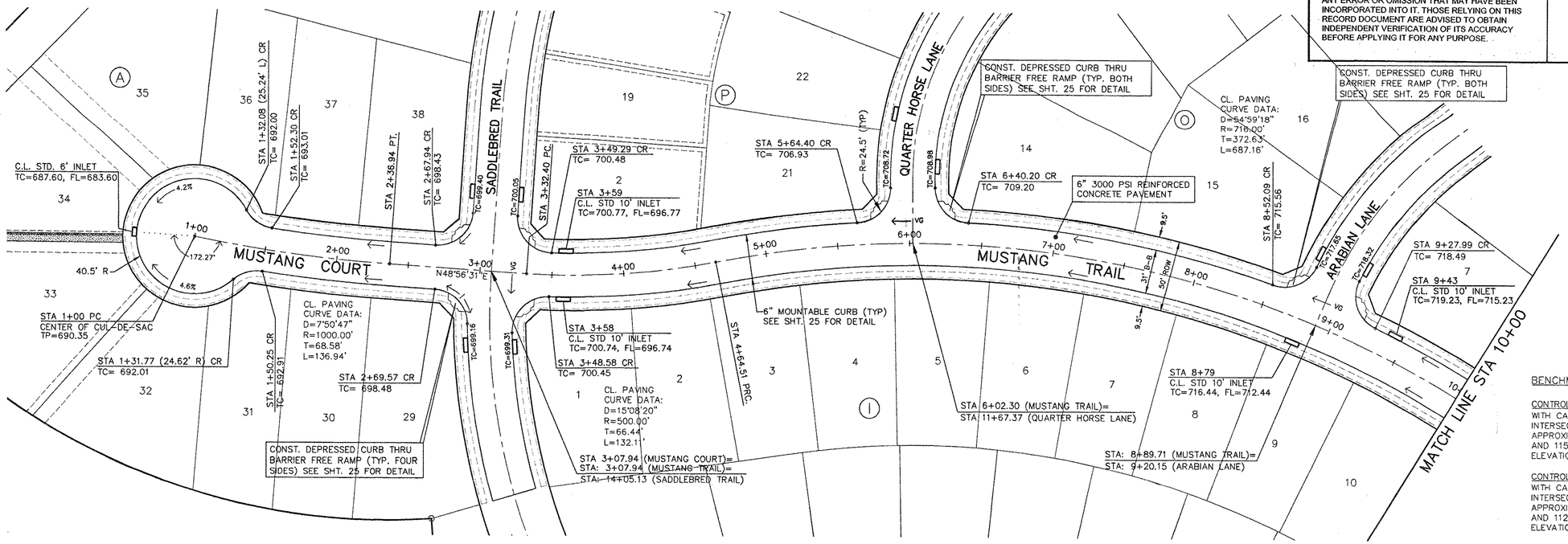
DATE: 2/3/04

SCALE (IN FEET) 0 20 40 80



LEGEND:

- MOUNTABLE CURB
- STANDARD INTERGRAL CURB
- SIDEWALK BY HOME BUILDER
- SIDEWALK BY DEVELOPER

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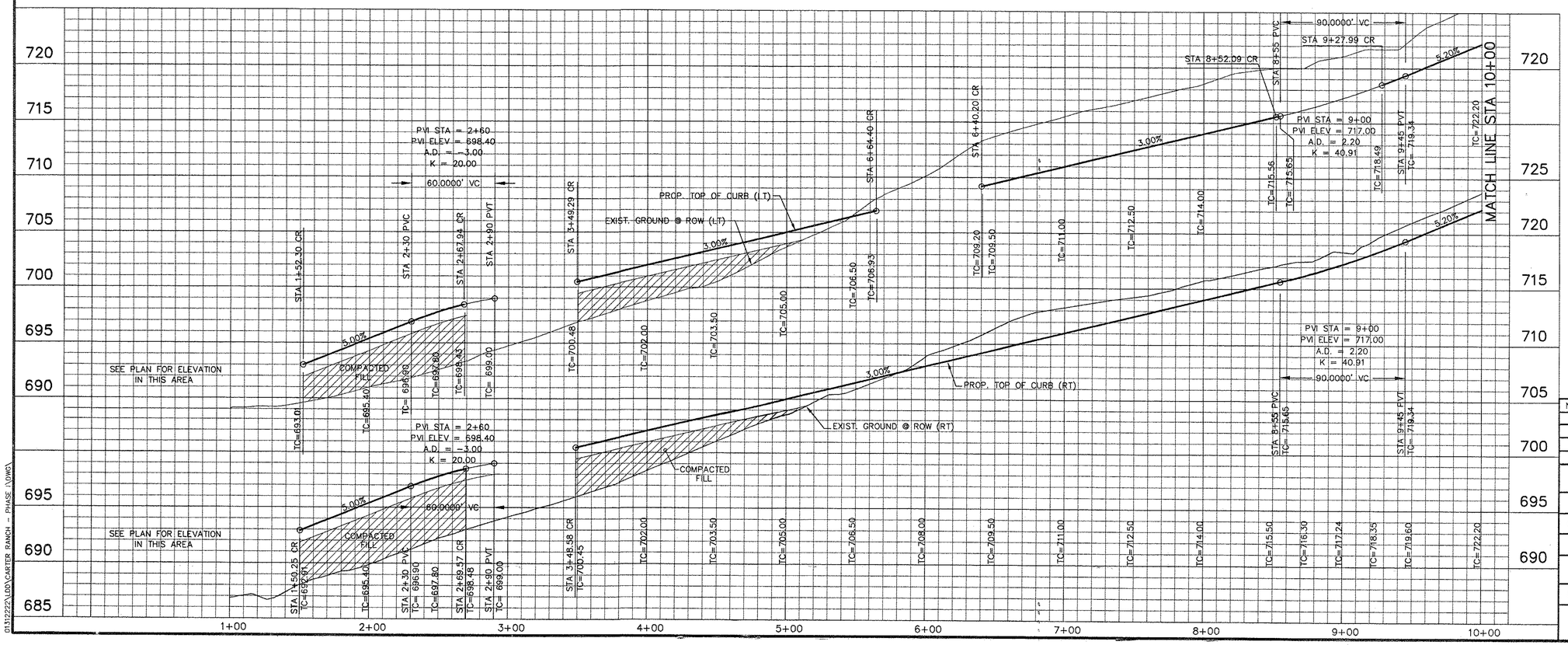

NO.	DATE	REVISIONS	APPROVED

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER — 4/9/03

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MUSTANG COURT & MUSTANG TRAIL

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
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HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	8

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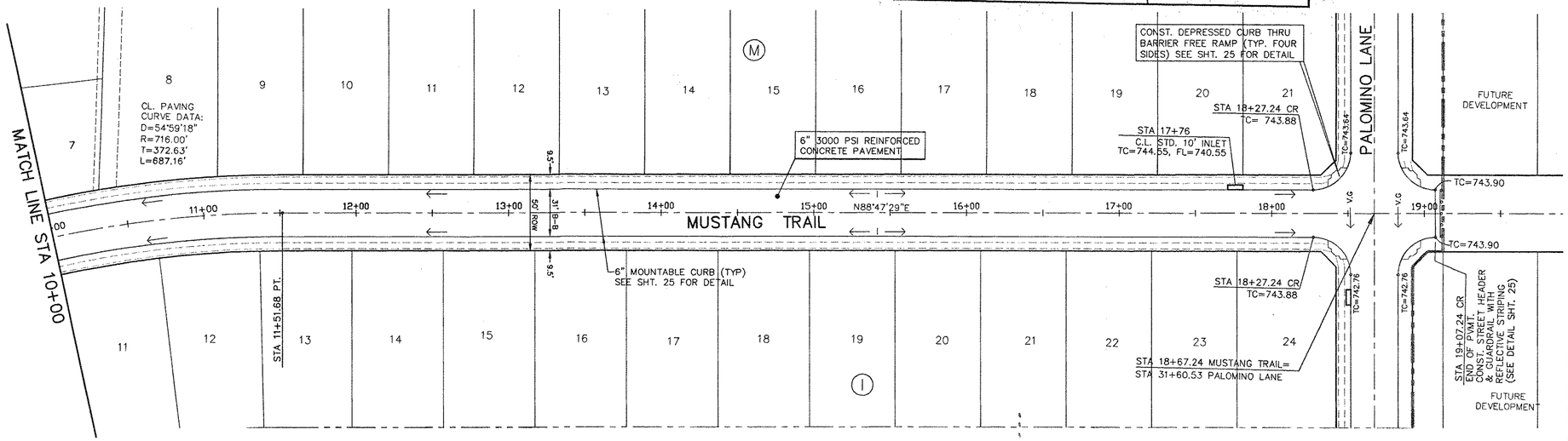
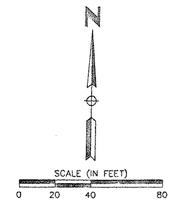
STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04





LEGEND:

- MOUNTABLE CURB
- STANDARD INTERGRAL CURB
- SIDEWALK BY HOME BUILDER
- SIDEWALK BY DEVELOPER

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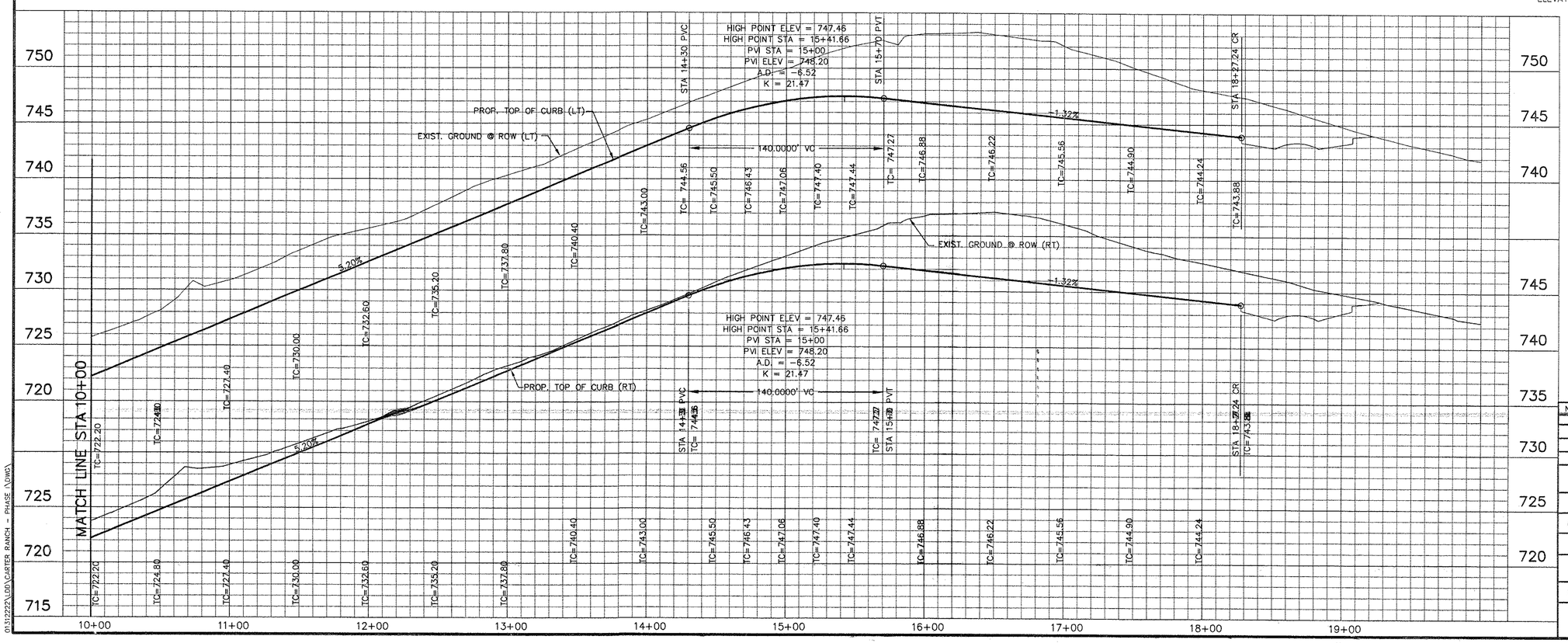
ELEVATION 681.76 FEET



STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
2/4/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

MUSTANG TRAIL

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
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Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

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HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	9

01312222\DD\CARTER RANCH - PHASE I\DWG\

P-200301-01

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STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04

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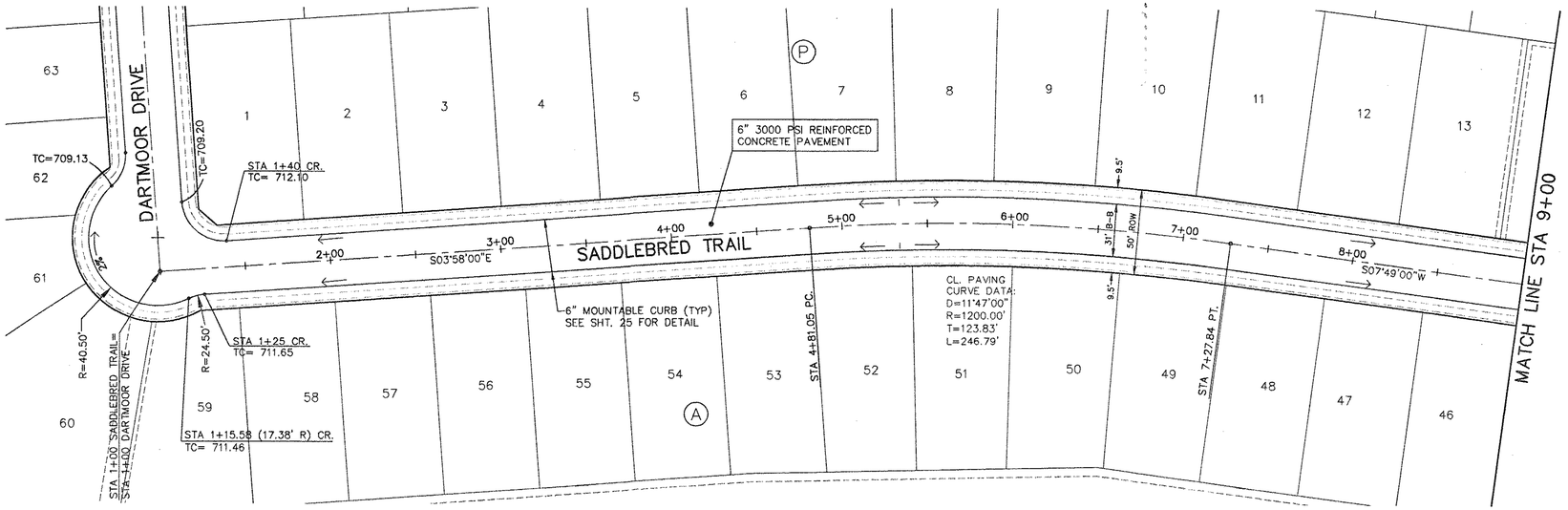

LEGEND:

MOUNTABLE CURB

STANDARD INTERGRAL CURB

SIDEWALK BY HOME BUILDER

SIDEWALK BY DEVELOPER

NOTE:

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BENCHMARKS:

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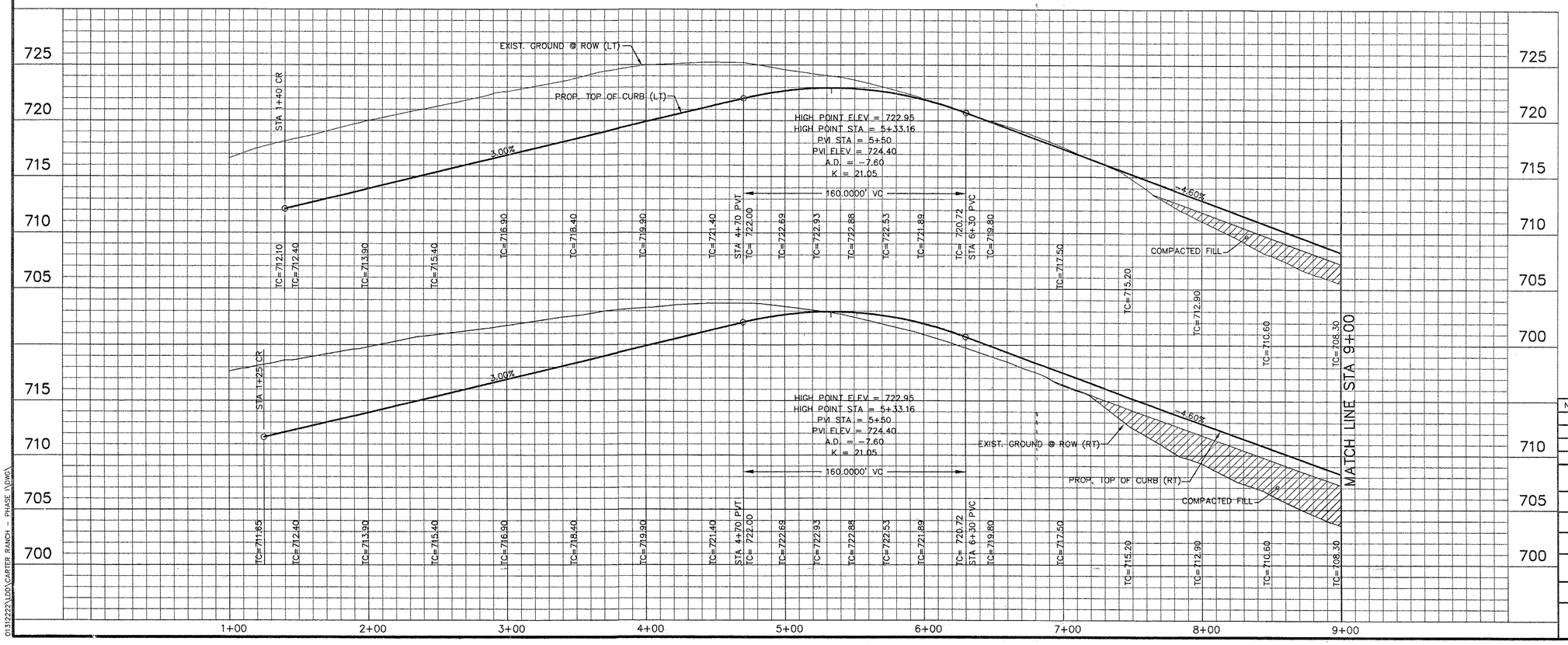

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER — 4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

SADDLEBRED TRAIL

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

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HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	10

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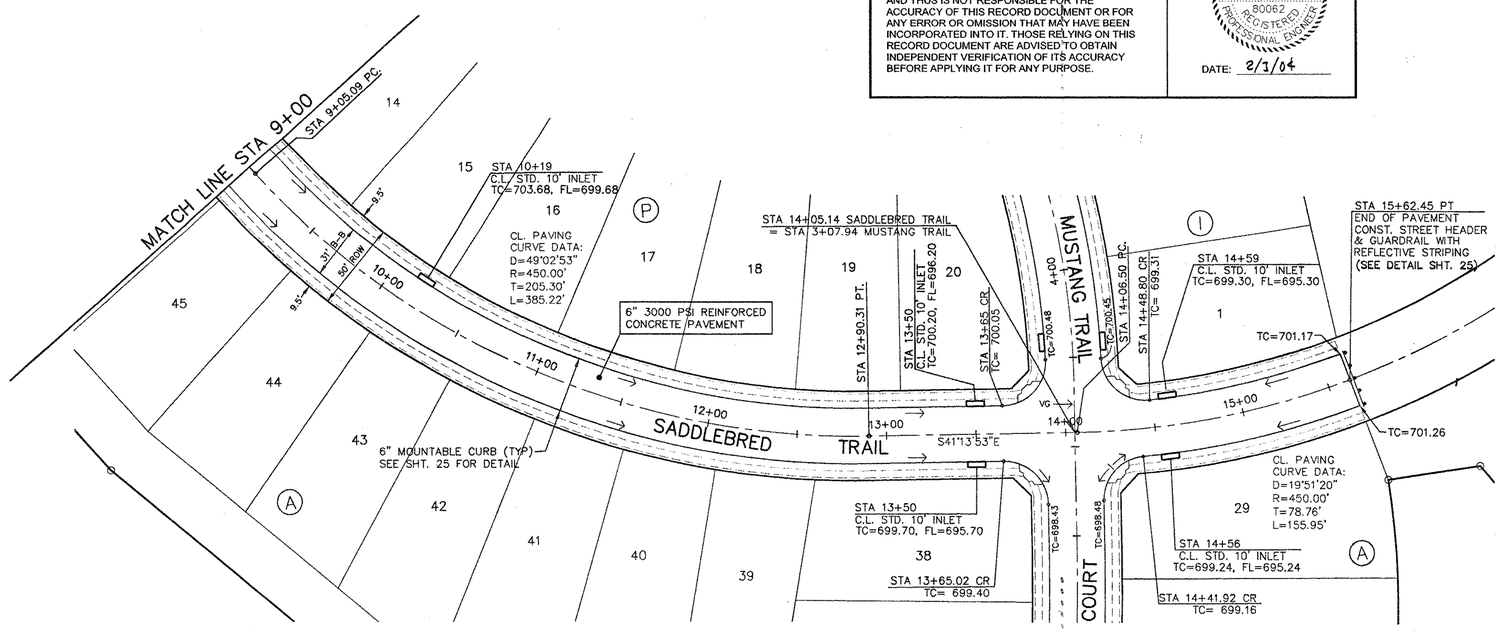
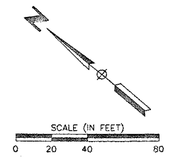
STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/1/04





LEGEND:

- MOUNTABLE CURB
- STANDARD INTERGRAL CURB
- SIDEWALK BY HOME BUILDER
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NOTE:

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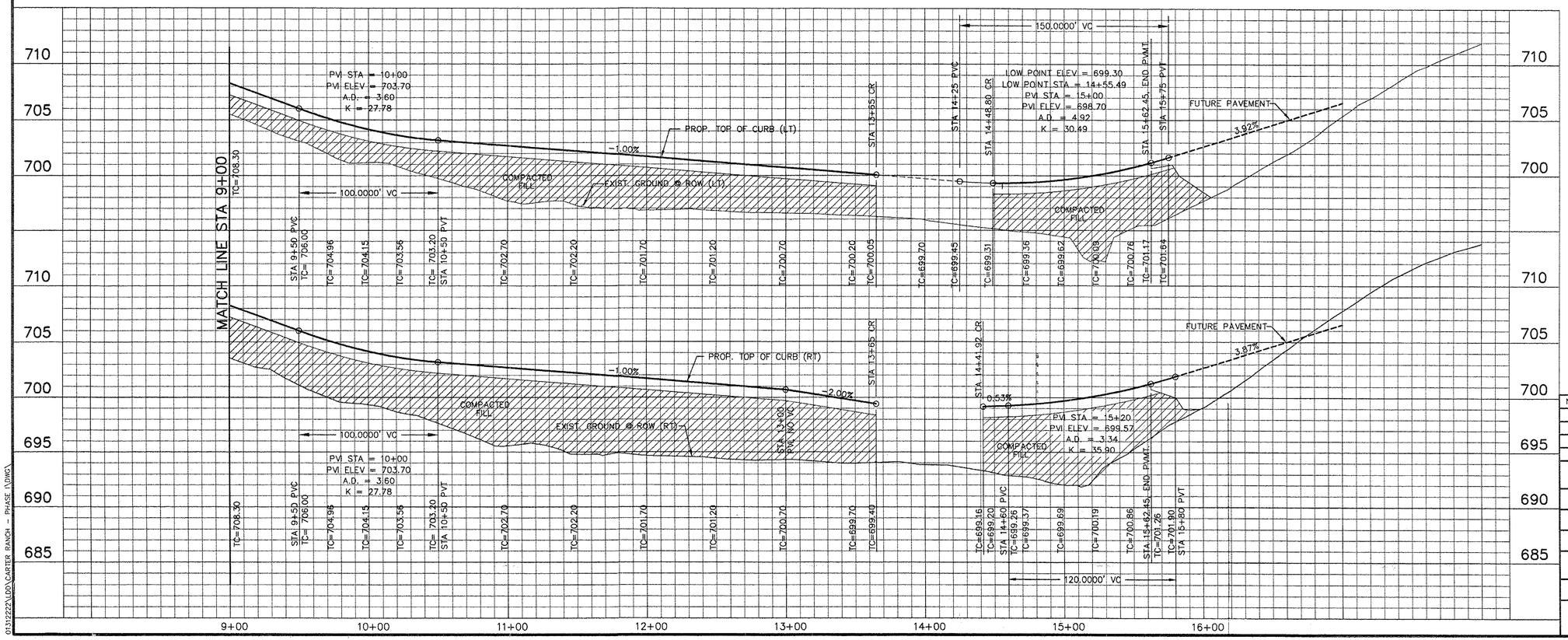

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CARTER RANCH - PHASE I

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CELINA, TEXAS

HUITT-ZOLLARS

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Dallas

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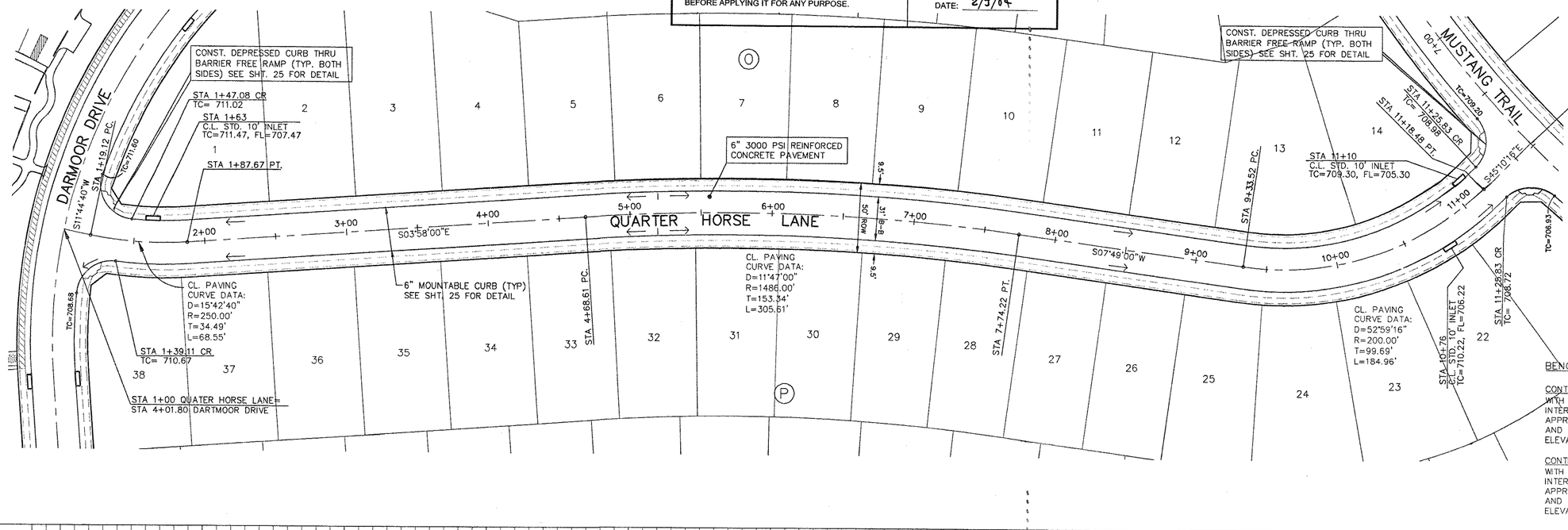

LEGEND:

- MOUNTABLE CURB
- STANDARD INTERGRAL CURB
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- SIDEWALK BY DEVELOPER

NOTE:

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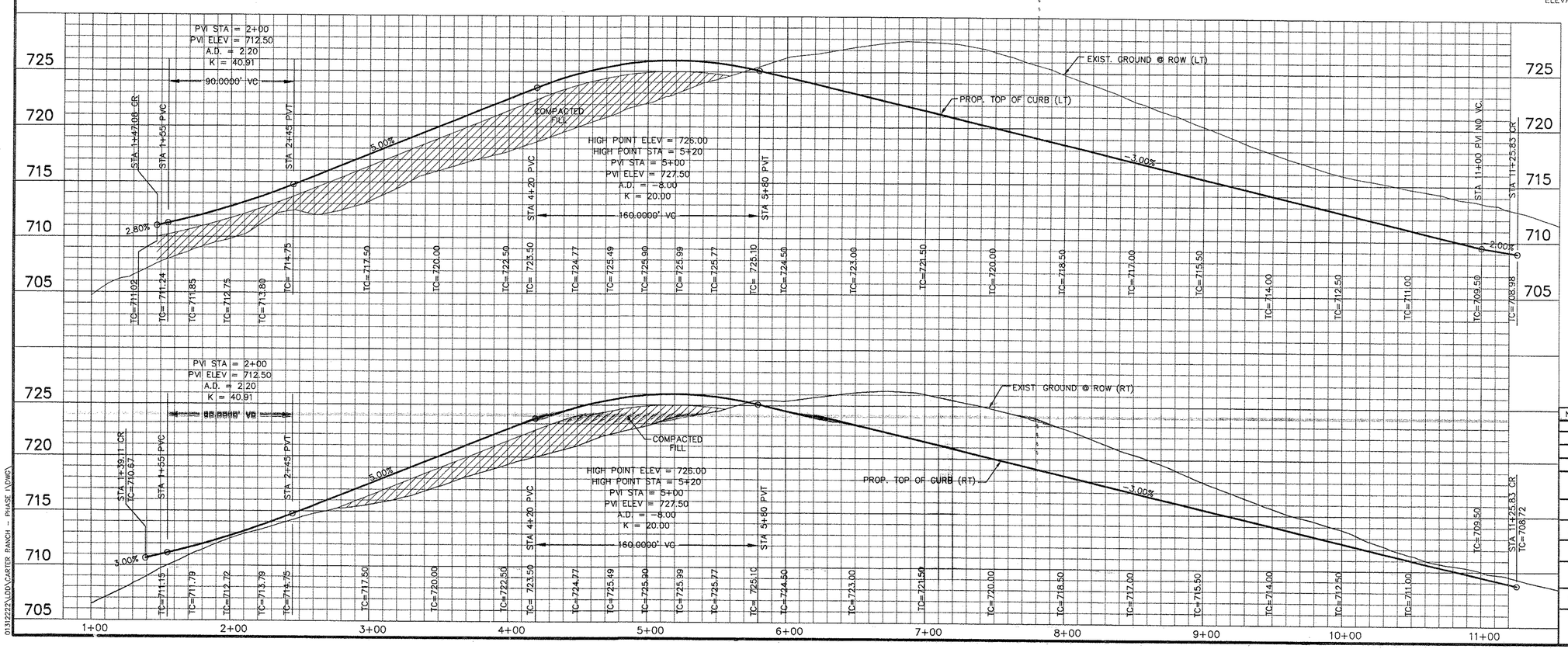

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OCIE LEE VEST
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QUARTER HORSE LANE

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

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P-200304-01

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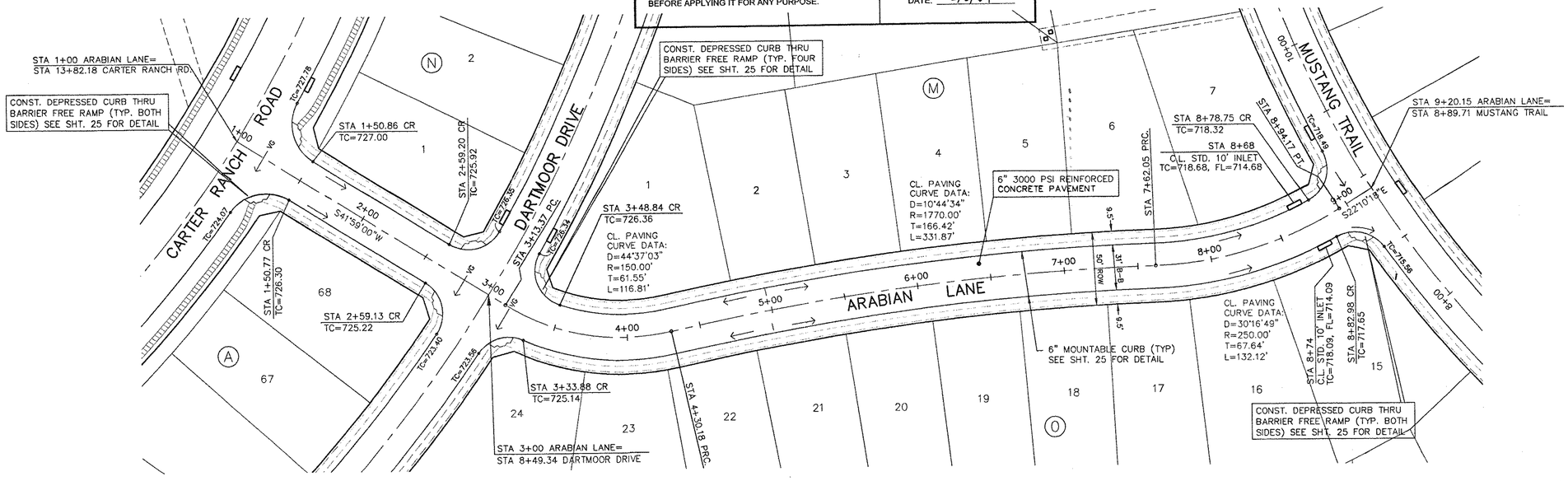
STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04



SCALE (IN FEET)
0 20 40 80

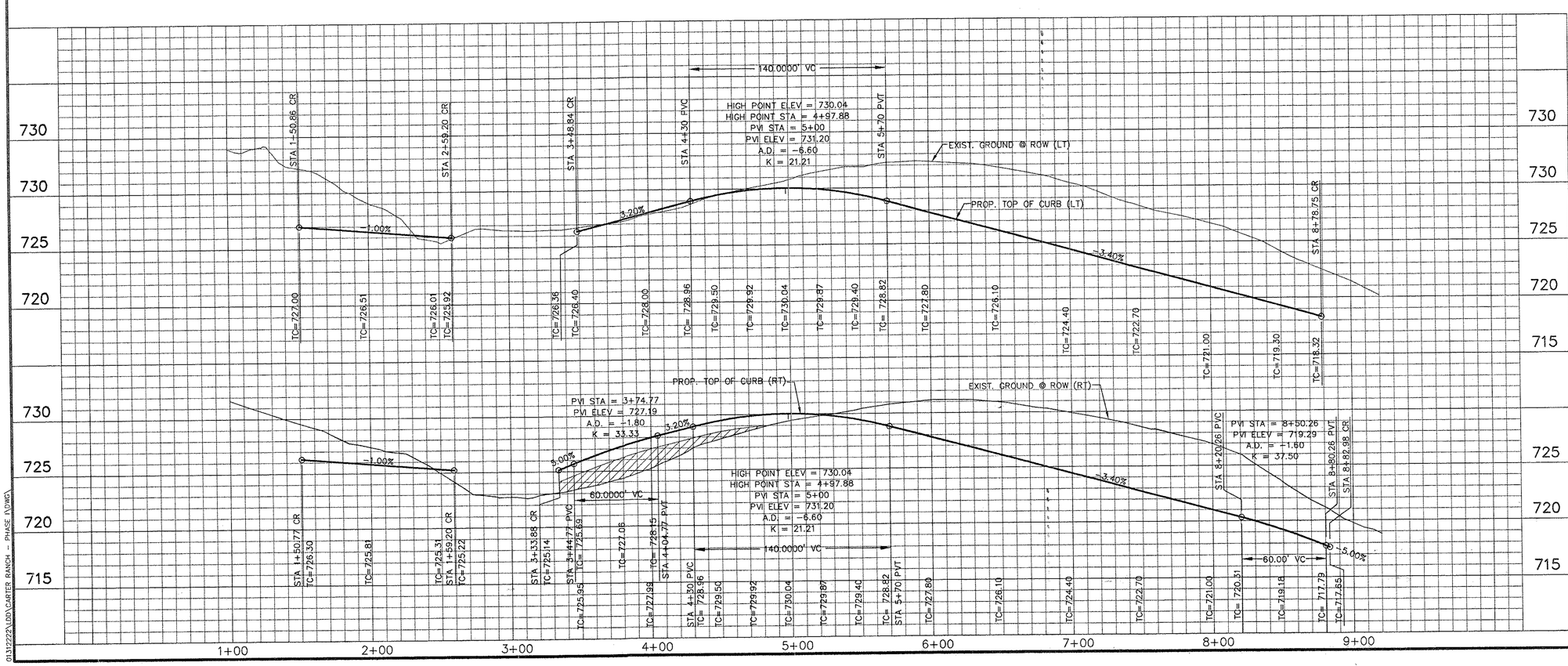
LEGEND:
- MOUNTABLE CURB
- STANDARD INTERGRAL CURB
- SIDEWALK BY HOME BUILDER
- SIDEWALK BY DEVELOPER

NOTE:
1. ALL DIMENSIONS ARE FROM BACK OF CURB.
2. INTERSECTION CURB RADIUS ARE 24.5', EXCEPT AS NOTED
3. SEE SHEET 25 FOR GENERAL PAVING NOTES.

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET



NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

ARABIAN LANE

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

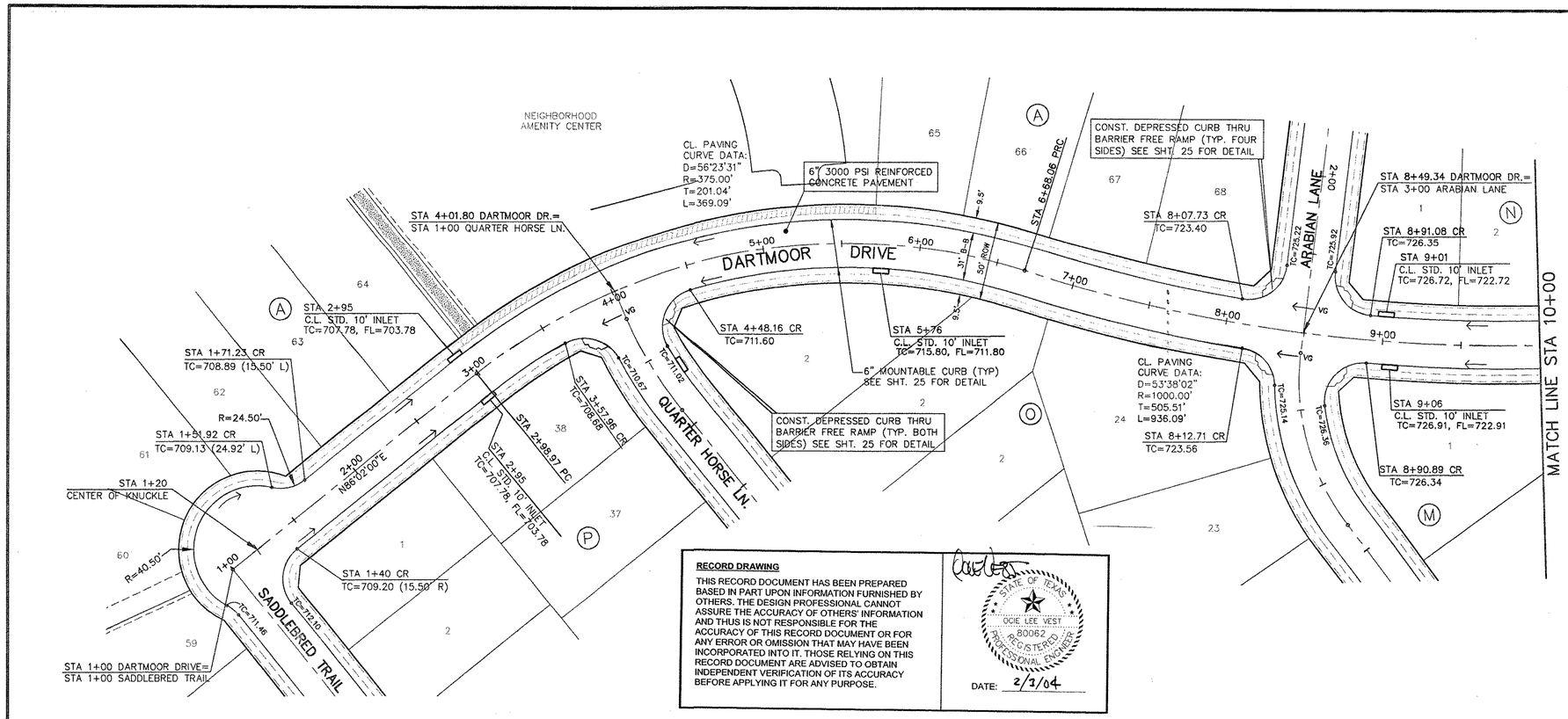
Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER — 4/29/03

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	13

01312222\LDD\CARTER RANCH – PHASE I\DWG\

P-200304-01



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STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04

LEGEND:

- MOUNTABLE CURB
- STANDARD INTERGRAL CURB
- SIDEWALK BY HOME BUILDER
- SIDEWALK BY DEVELOPER

NOTE:

1. ALL DIMENSIONS ARE FROM BACK OF CURB.
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BENCHMARKS:

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ELEVATION 681.67 FEET

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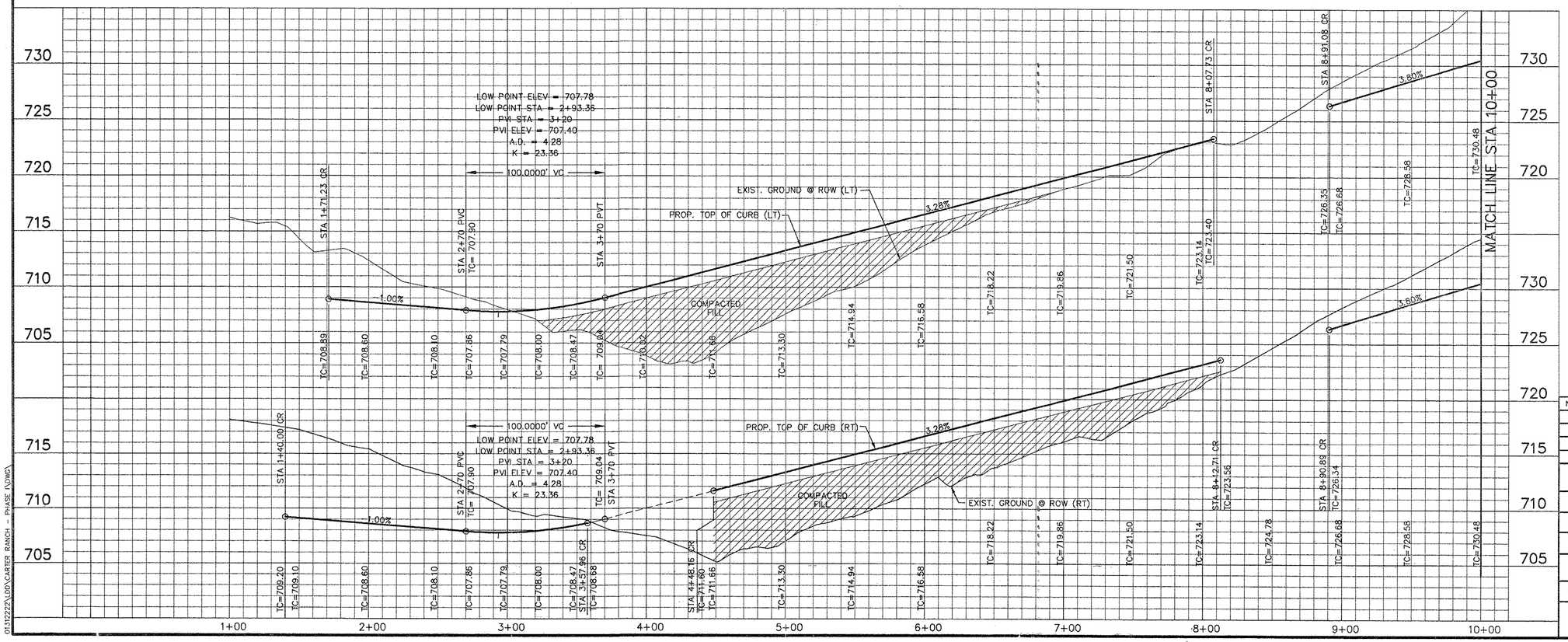
ELEVATION 681.76 FEET



NO.	DATE	REVISIONS	APPROVED

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER — 4/9/03

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DARTMOOR DRIVE

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

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Dallas, Texas 75204-2489
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DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	14

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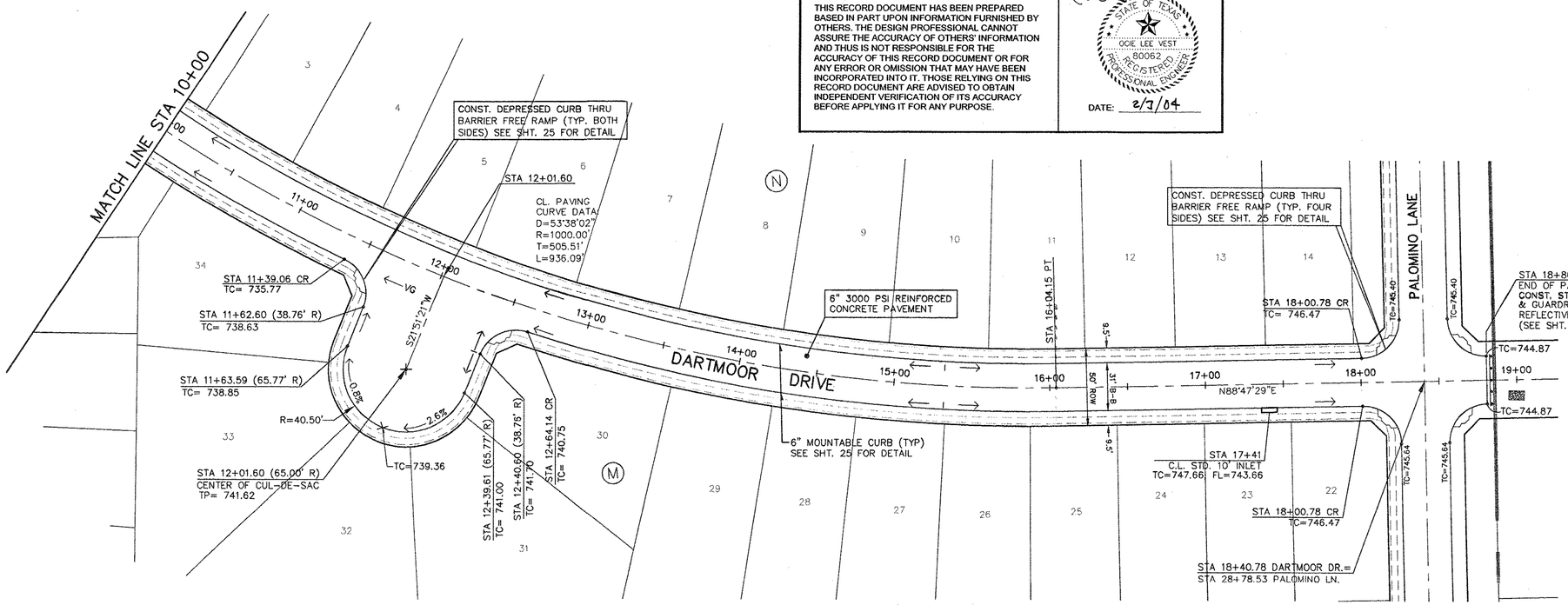
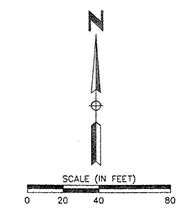
STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/7/04





LEGEND:

- MOUNTABLE CURB
- STANDARD INTERGRAL CURB
- SIDEWALK BY HOME BUILDER
- SIDEWALK BY DEVELOPER

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ELEVATION 681.67 FEET

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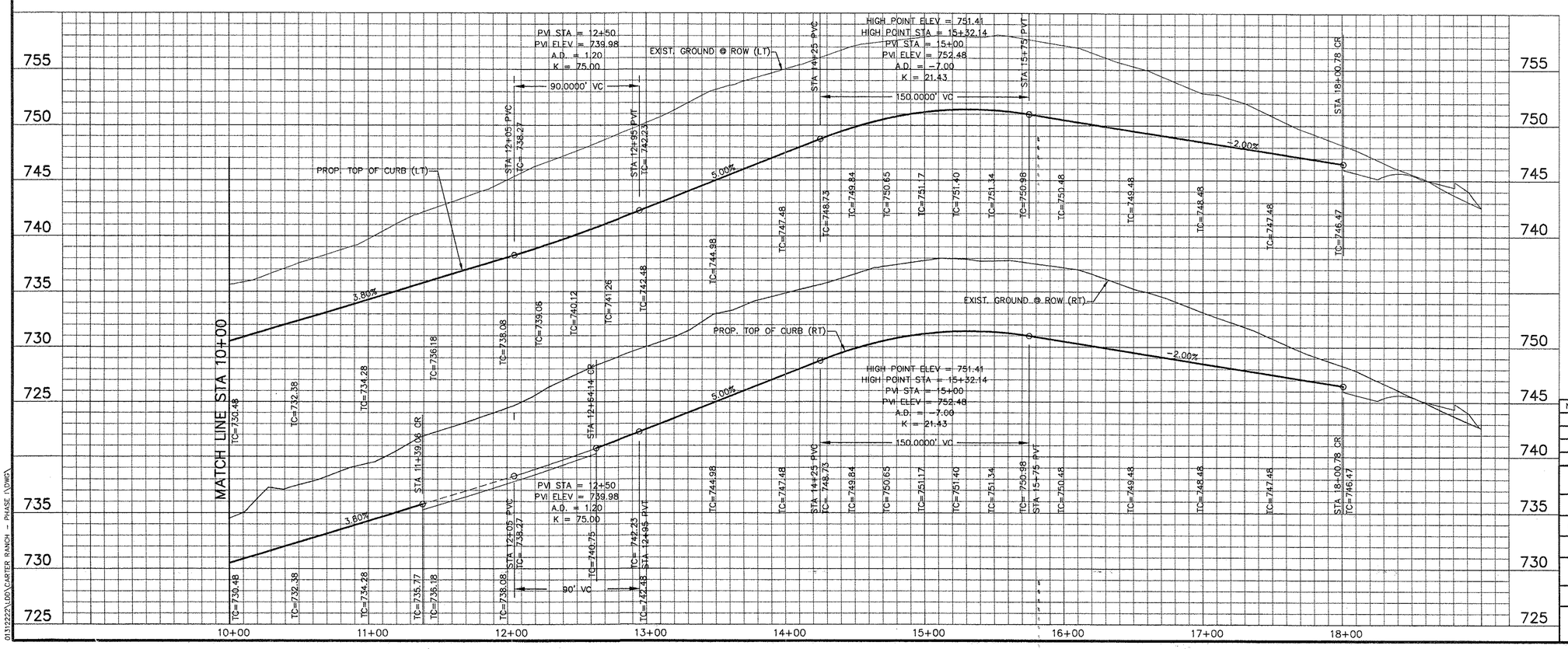
ELEVATION 681.76 FEET



STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER — 4/9/03

NO.	DATE	REVISIONS	APPROVED

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CELINA, TEXAS

HUITT-ZOLLARS — Huitt-Zollars, Inc. Dallas, 3131 McKinney Avenue, Suite 600, Dallas, Texas 75204-2489, Phone (214) 871-3311, Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	15

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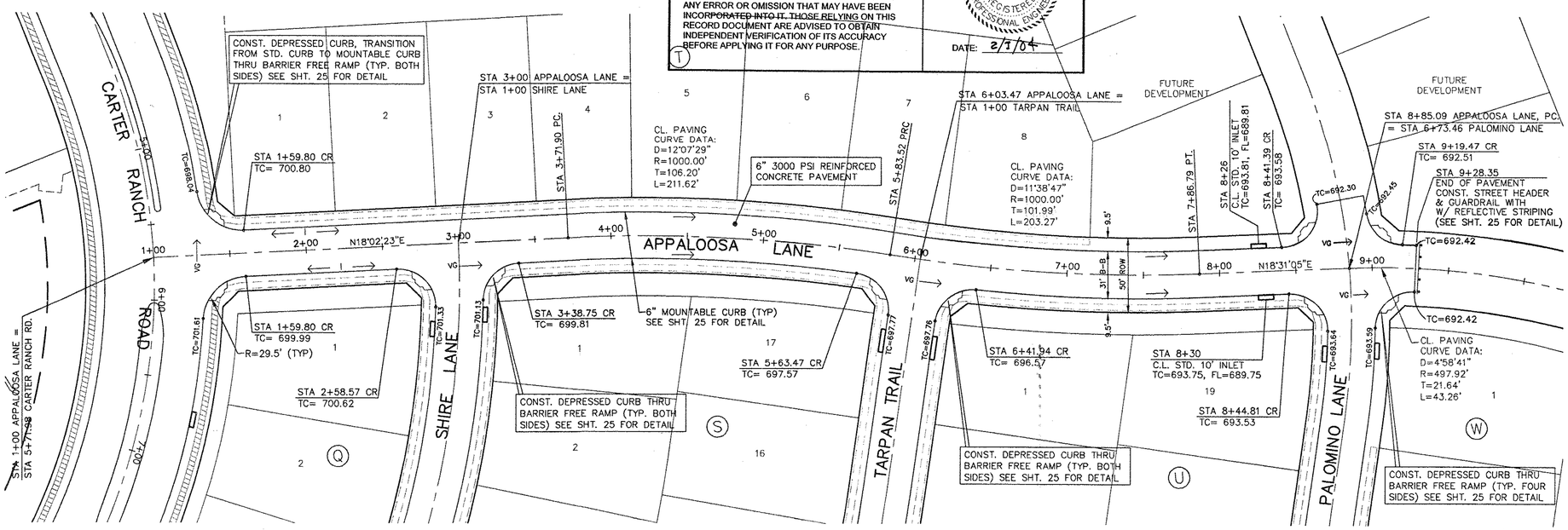
STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/1/04



SCALE (IN FEET)
0 20 40 80

LEGEND:
- MOUNTABLE CURB
- STANDARD INTERGRAL CURB
- SIDEWALK BY HOME BUILDER
- SIDEWALK BY DEVELOPER

NOTE:
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BENCHMARKS:

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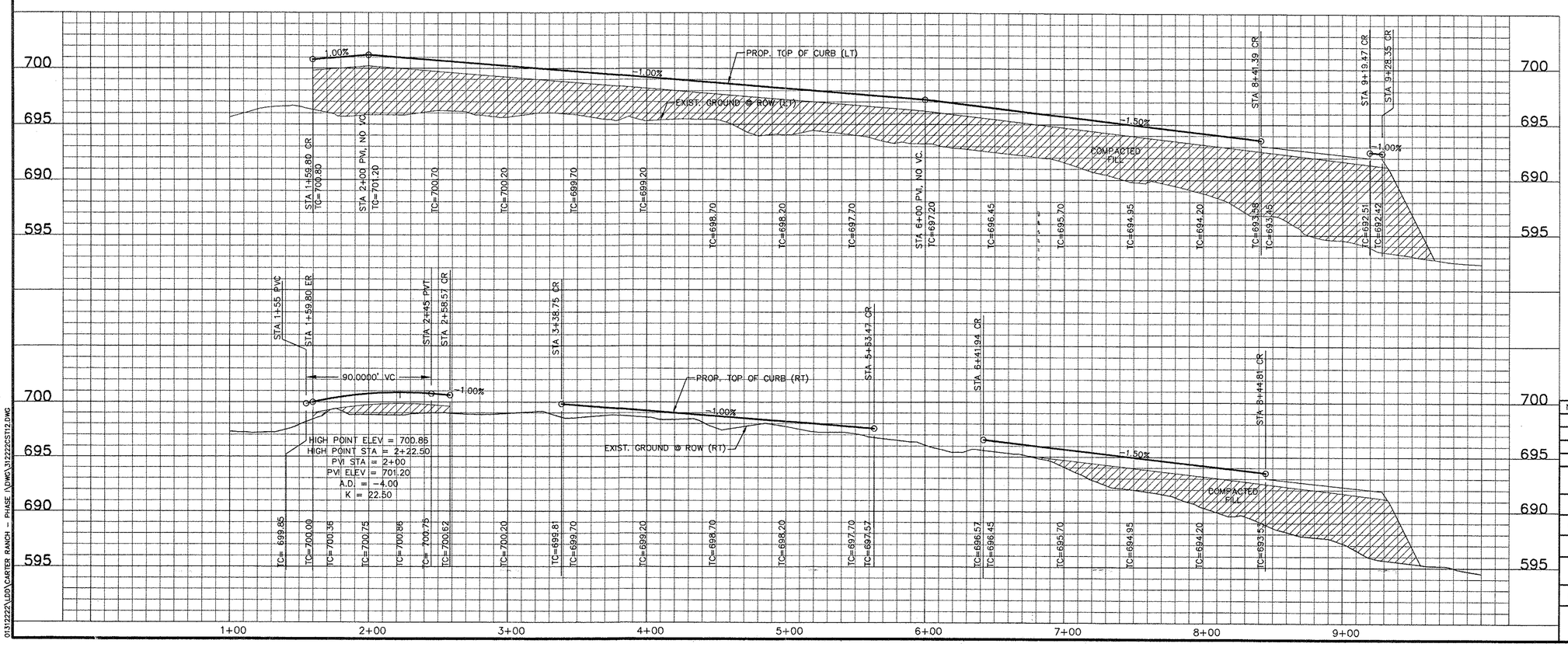

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER — 4/9/03

NO.	DATE	REVISIONS	APPROVED

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APPALOOSA LANE

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
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Dallas, Texas 75204-2489
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DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	16

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P-200304-01

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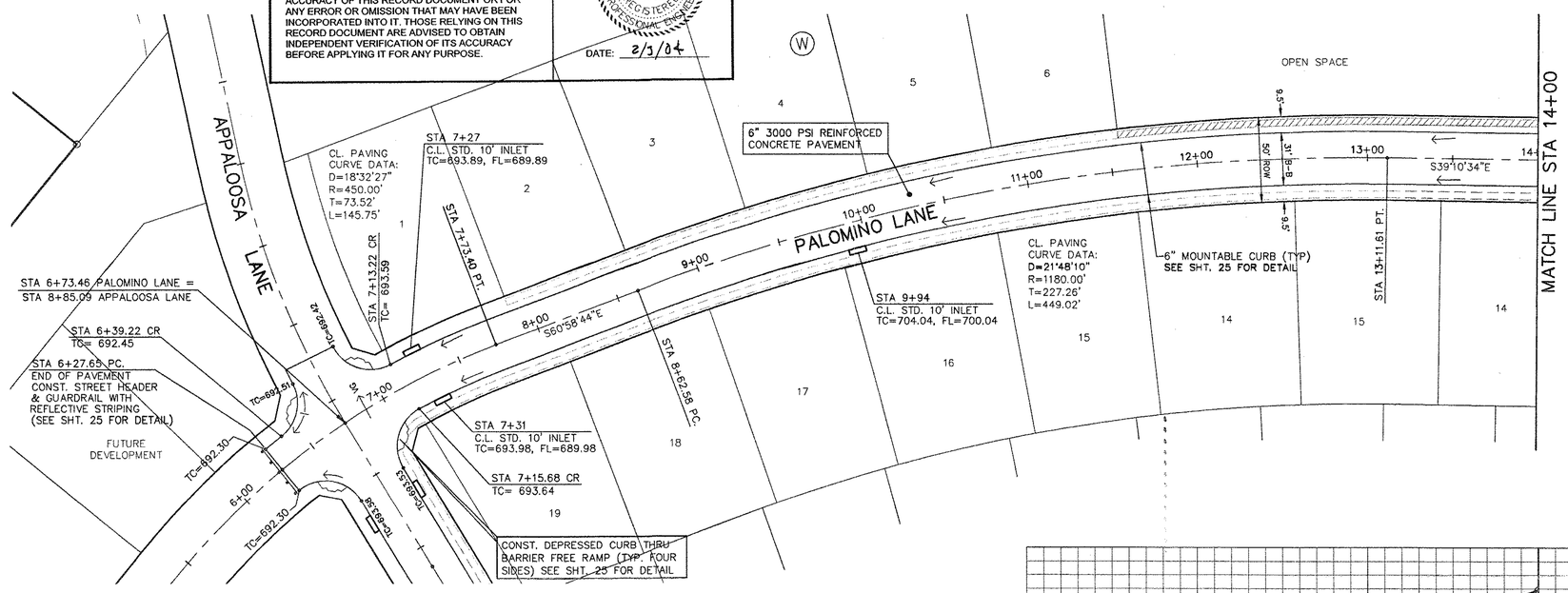
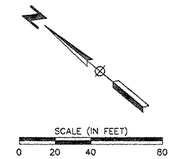
STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04





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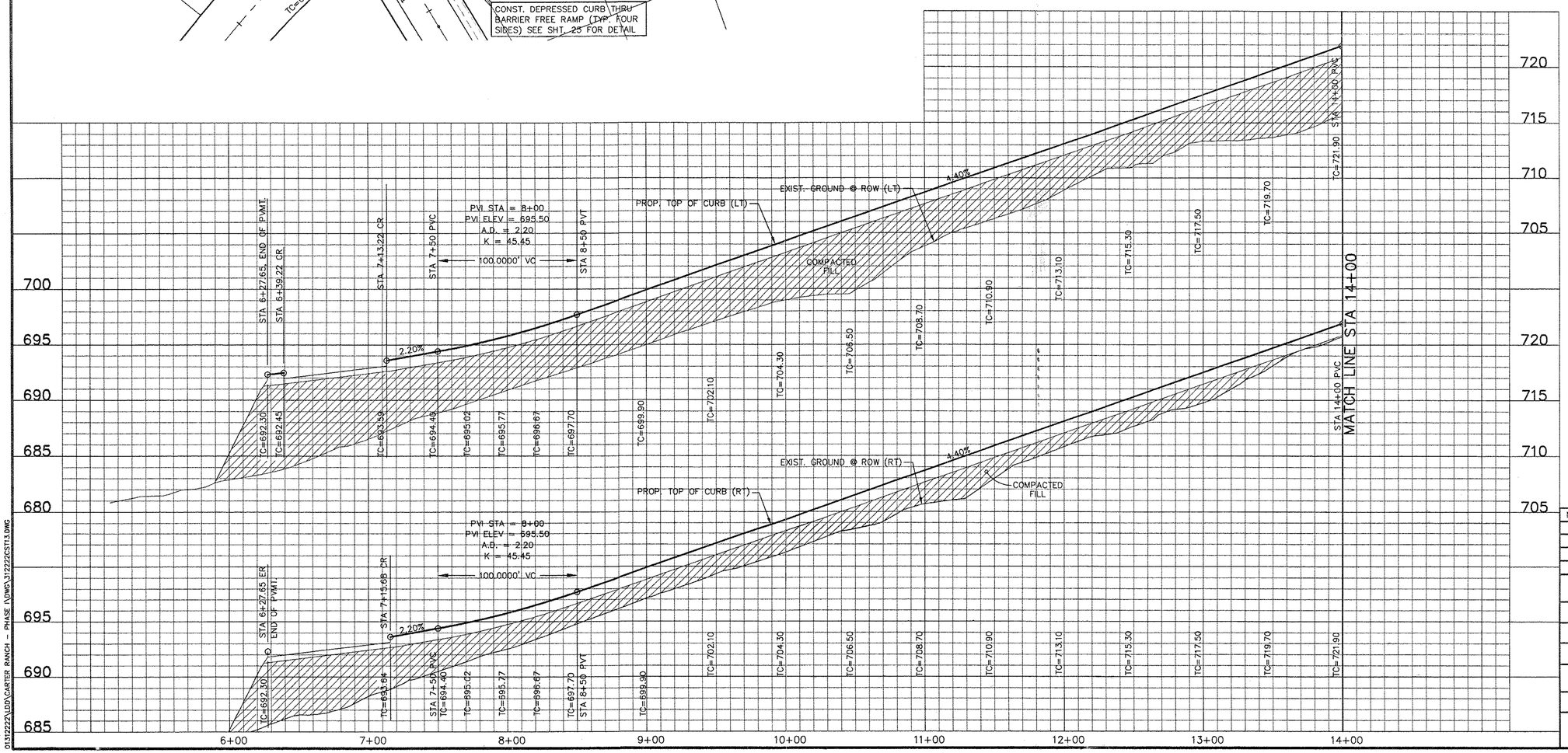

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STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER — 4/9/03

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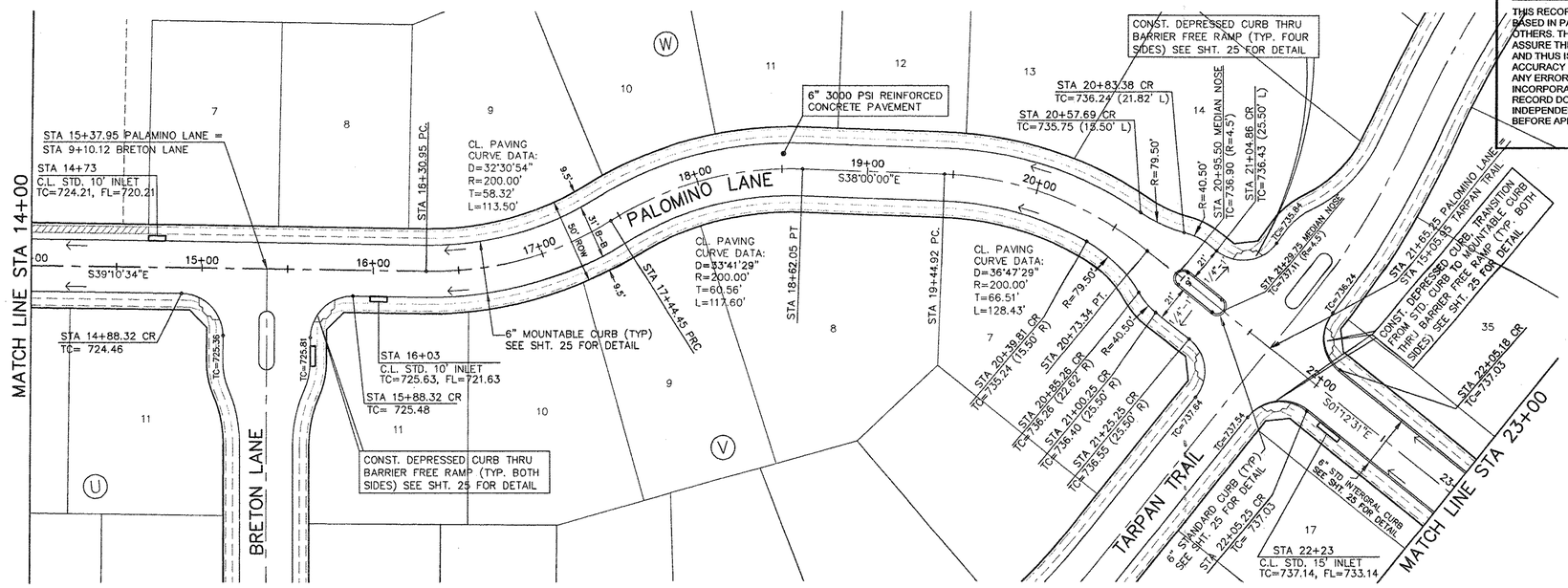

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
DATE: 2/3/04

SCALE (IN FEET)
0 20 40 80

LEGEND:

- MOUNTABLE CURB
- STANDARD INTERGRAL CURB
- SIDEWALK BY HOME BUILDER
- SIDEWALK BY DEVELOPER

NOTE:

1. ALL DIMENSIONS ARE FROM BACK OF CURB.
2. INTERSECTION CURB RADIUS ARE 24.5', EXCEPT AS NOTED
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BENCHMARKS:

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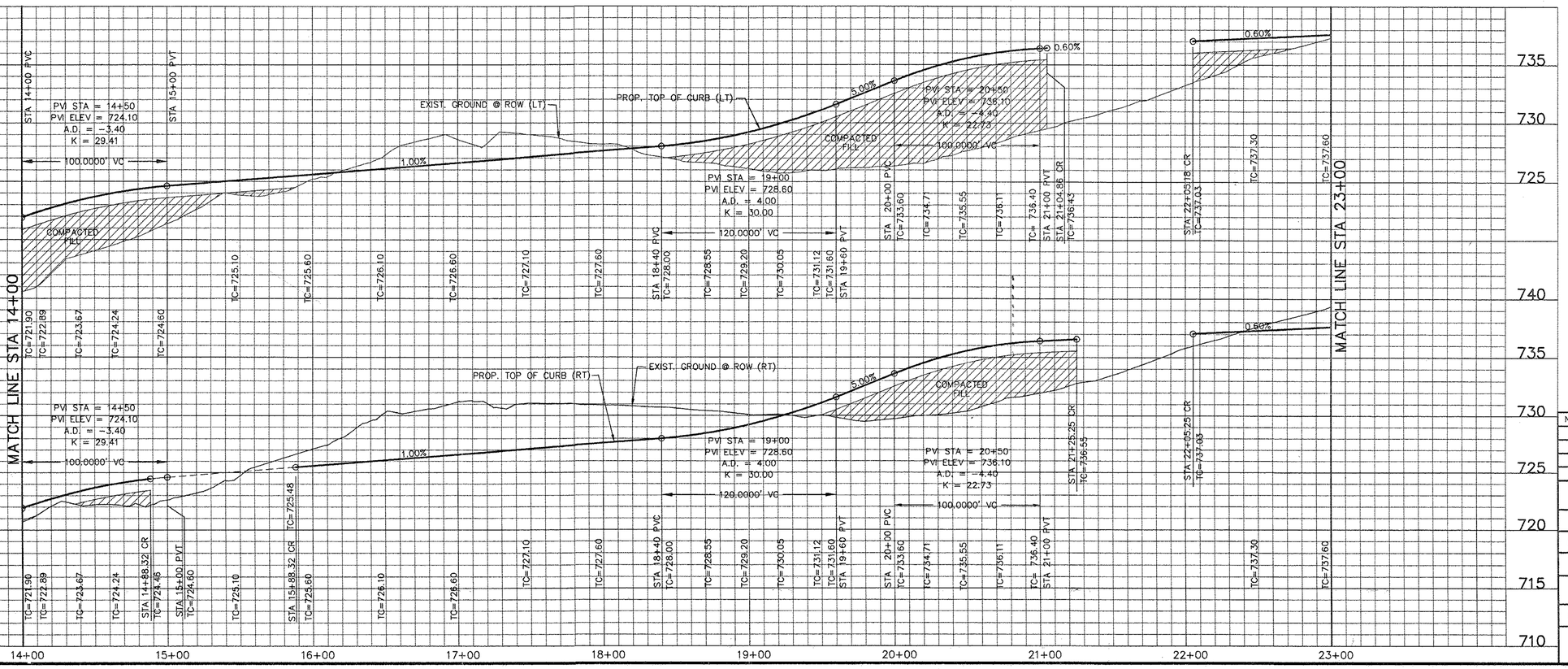

NO.	DATE	REVISIONS	APPROVED

STATE OF TEXAS
OCIE LEE VEST
80062
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4/9/03

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PALOMINO LANE

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CELINA, TEXAS

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01312222\LDD\CARTER RANCH – PHASE I\DWG\312222CST14.DWG

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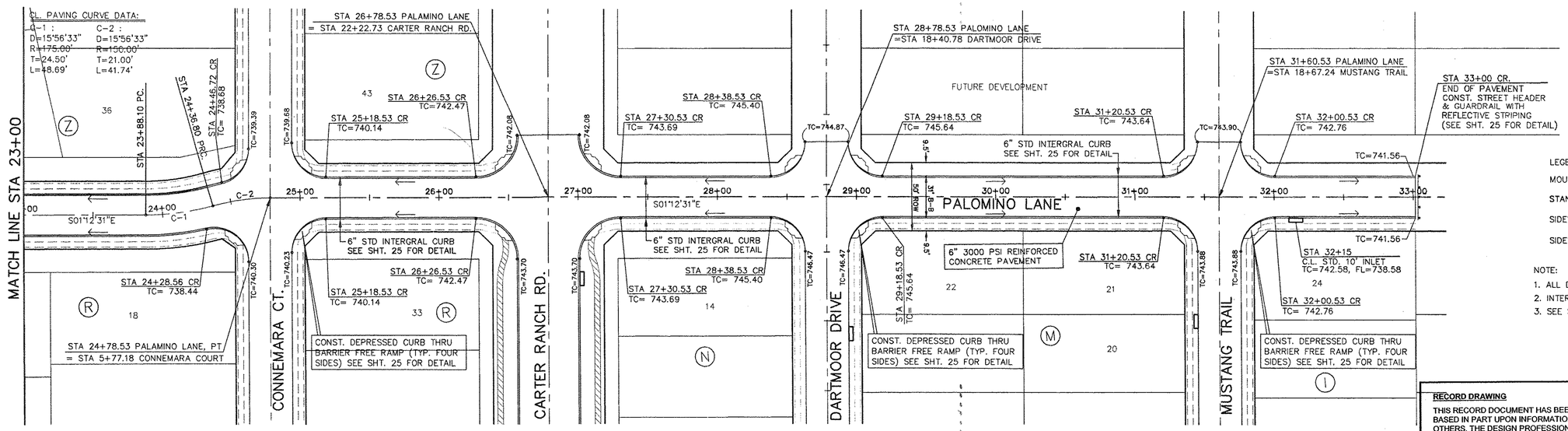

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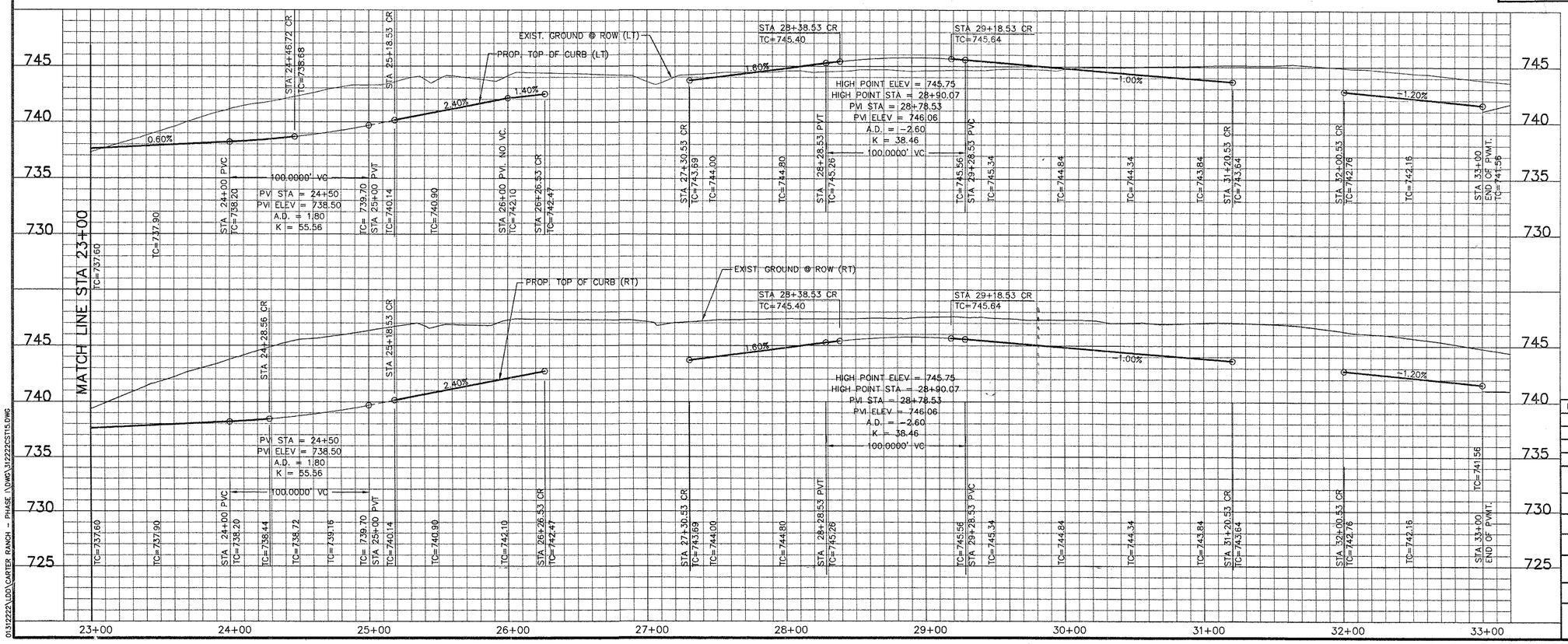

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STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

4/9/03

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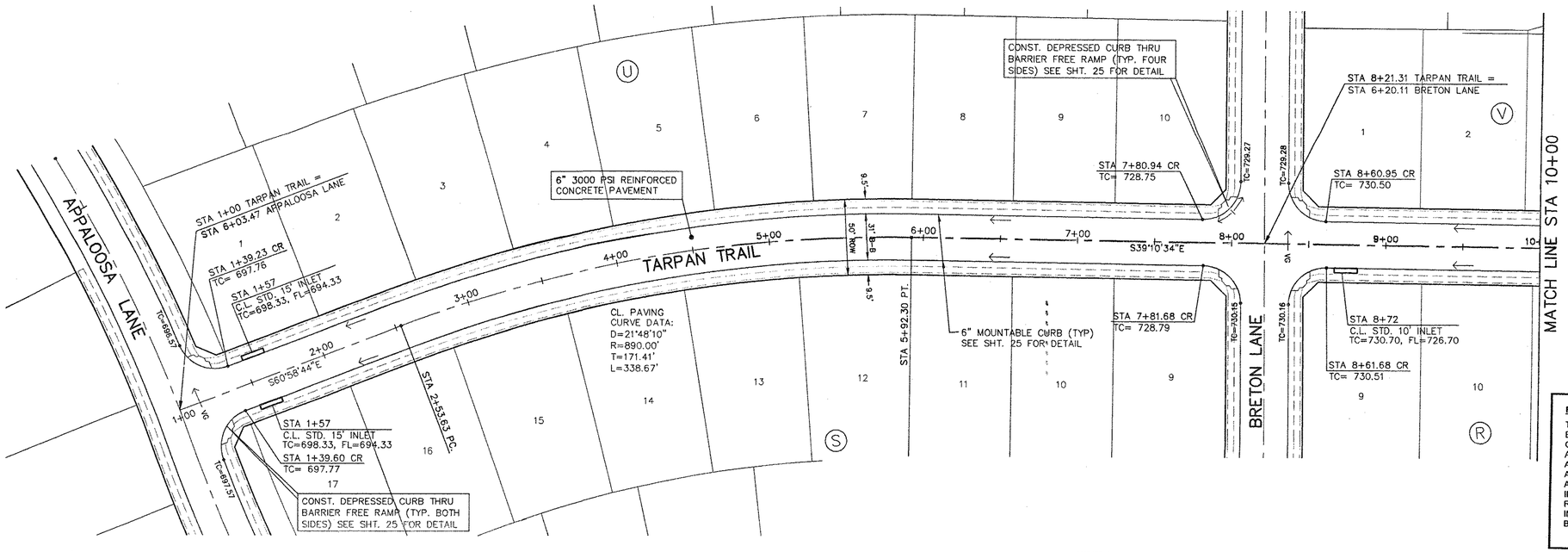

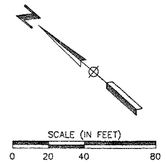

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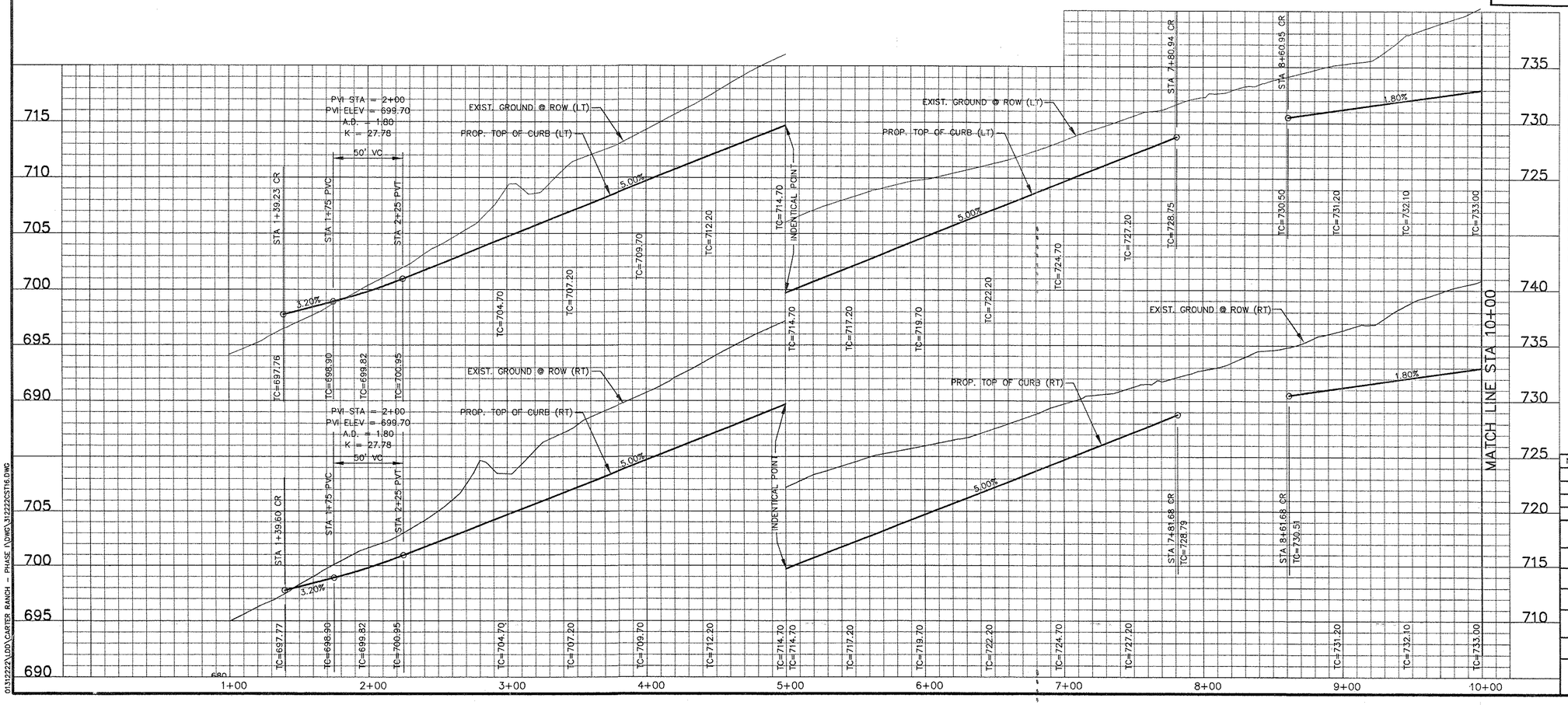

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON RODWITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

TARPAN TRAIL

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	20

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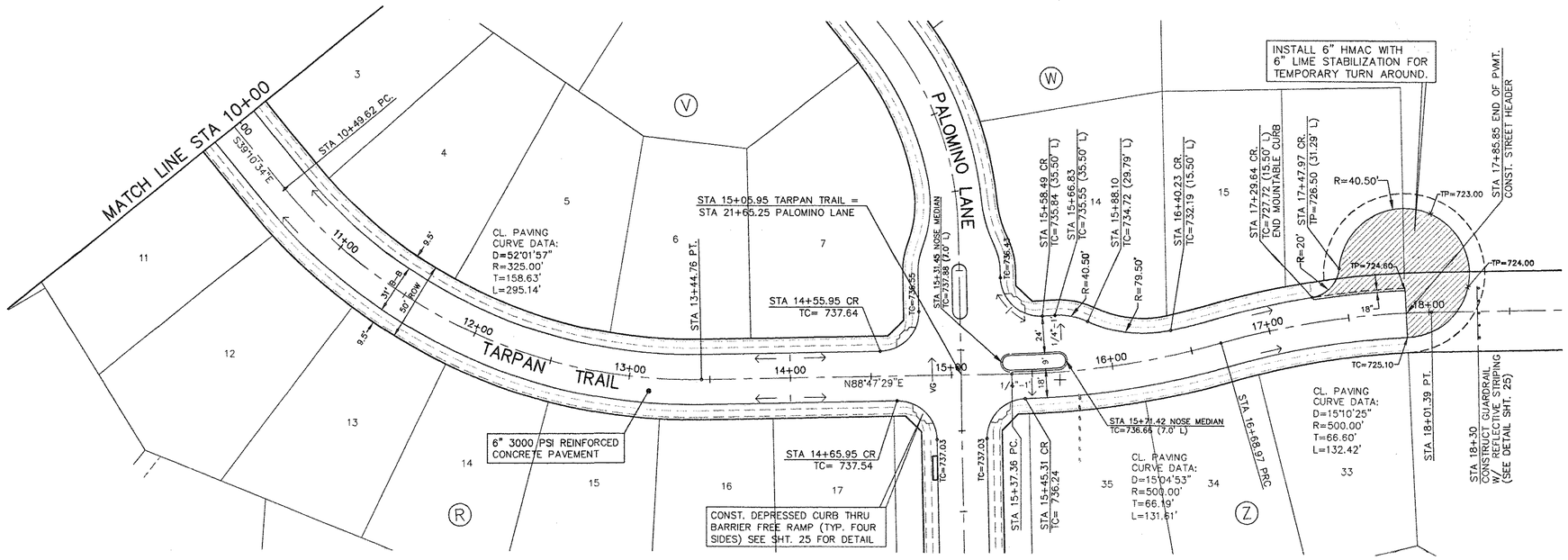

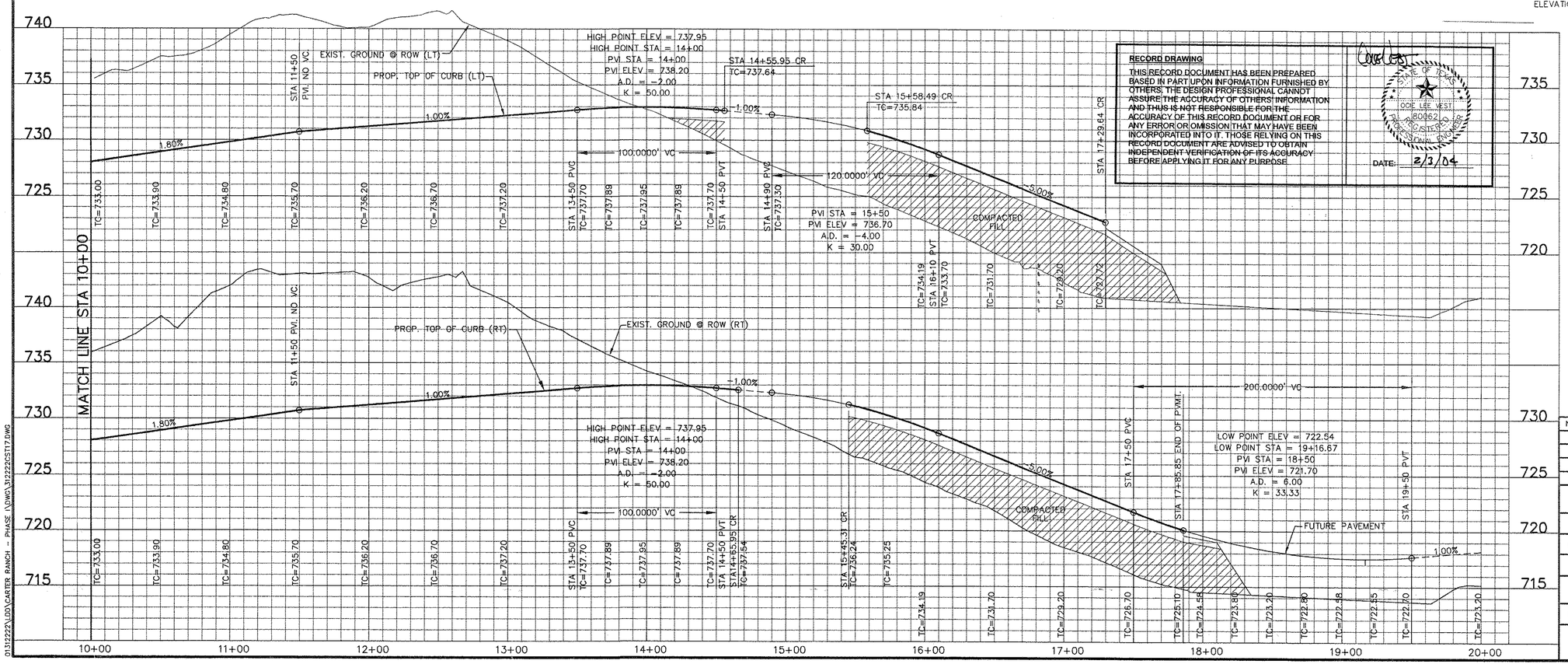

RECORD DRAWING

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DATE: 2/3/04

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER

SCALE (IN FEET)
0 20 40 80

LEGEND:

- MOUNTABLE CURB
- STANDARD INTERGRAL CURB
- SIDEWALK BY HOME BUILDER
- SIDEWALK BY DEVELOPER

NOTE:

1. ALL DIMENSIONS ARE FROM BACK OF CURB.
2. INTERSECTION CURB RADIUS ARE 24.5', EXCEPT AS NOTED
3. SEE SHEET 25 FOR GENERAL PAVING NOTES.

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

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ELEVATION 681.76 FEET

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

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TARPAN TRAIL

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
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DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	21

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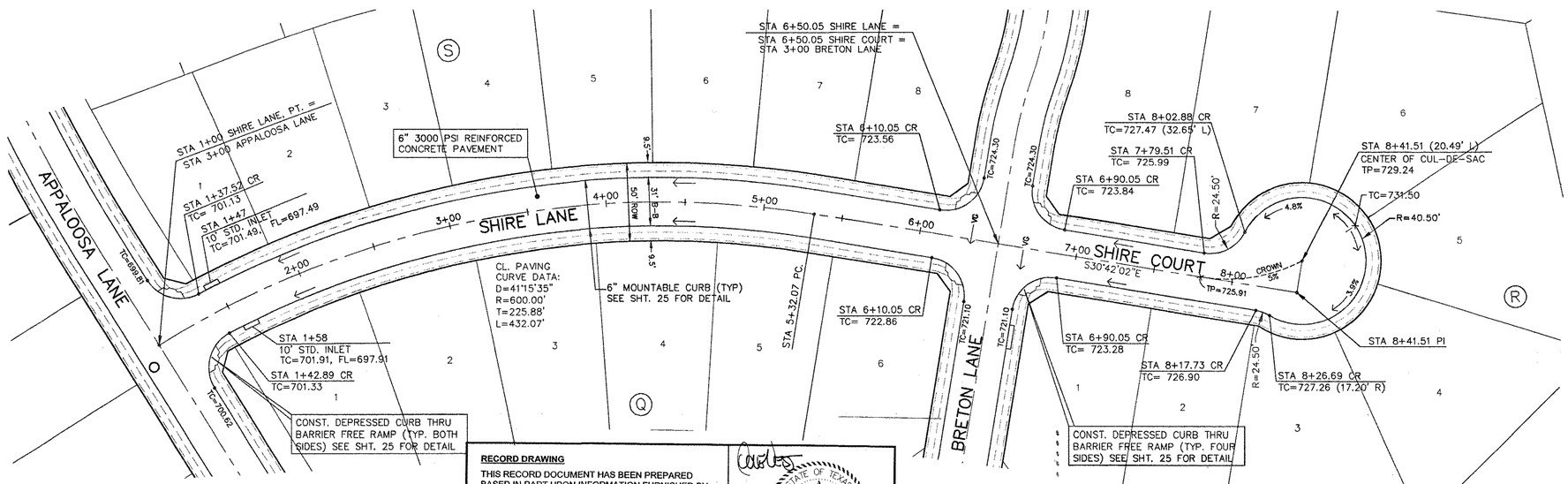

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STATE OF TEXAS
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PROFESSIONAL ENGINEER

DATE: 2/3/04

SCALE (IN FEET)
0 20 40 80

BENCHMARKS:

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ELEVATION 681.76 FEET

LEGEND:

MOUNTABLE CURB
STANDARD INTERGRAL CURB
SIDEWALK BY HOME BUILDER
SIDEWALK BY DEVELOPER

NOTE:

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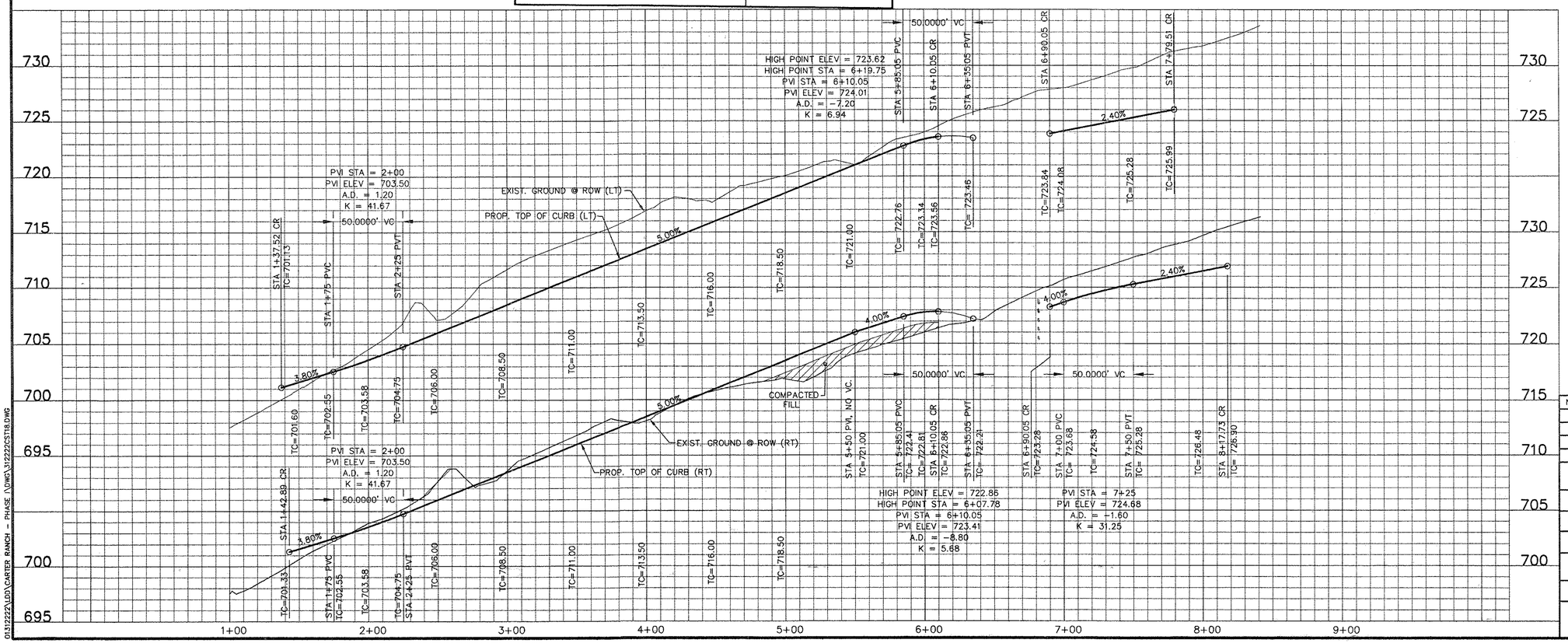

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

SHIRE LANE & SHIRE COURT

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc.
2331 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
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Dallas

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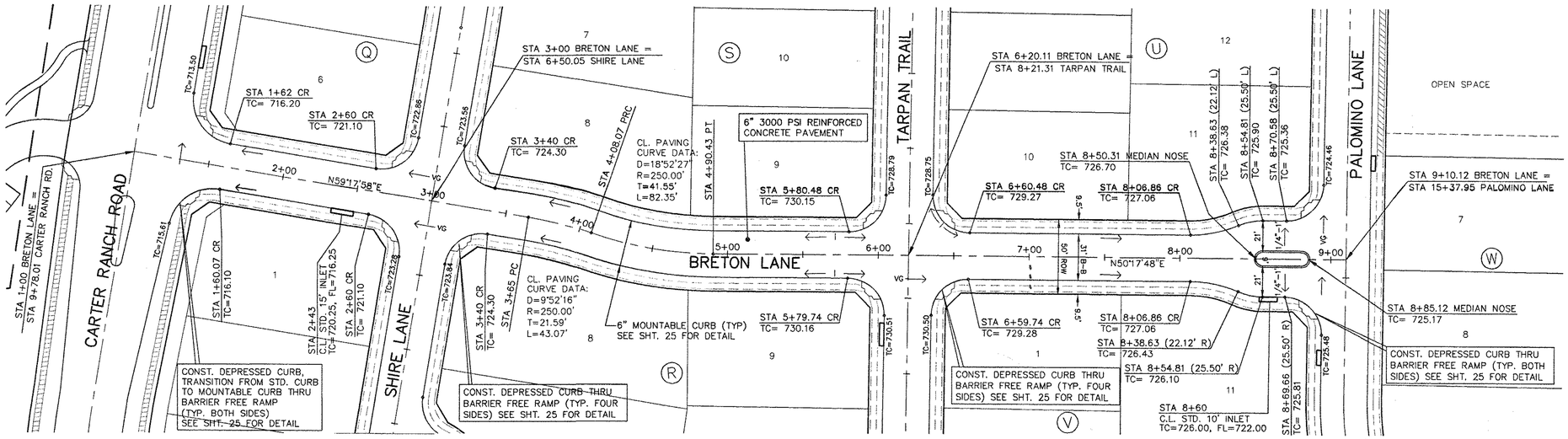

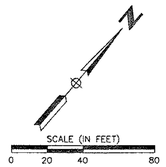

LEGEND:

- MOUNTABLE CURB
- STANDARD INTERGRAL CURB
- SIDEWALK BY HOME BUILDER
- SIDEWALK BY DEVELOPER

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ELEVATION 681.67 FEET

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ELEVATION 681.76 FEET

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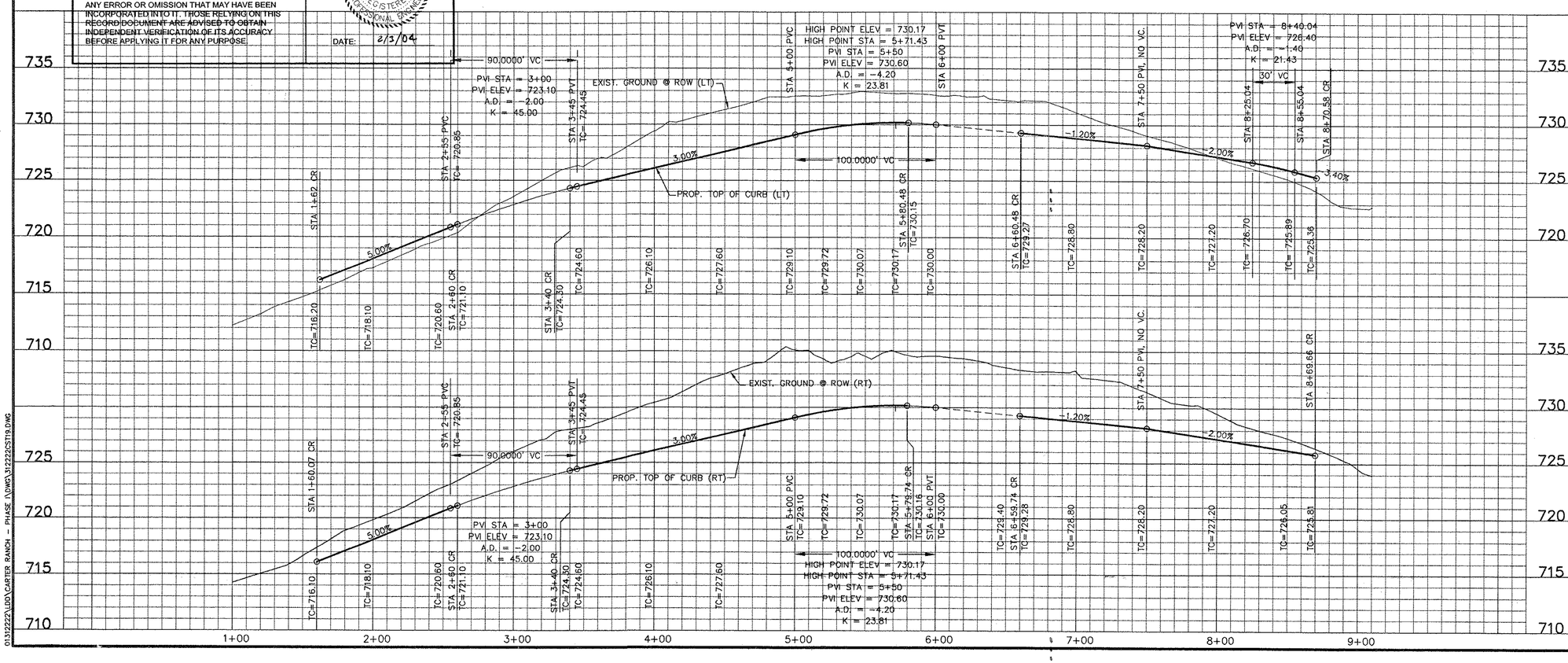
STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04



NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

BRETON LANE

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
901 McKinney Avenue, Suite 600
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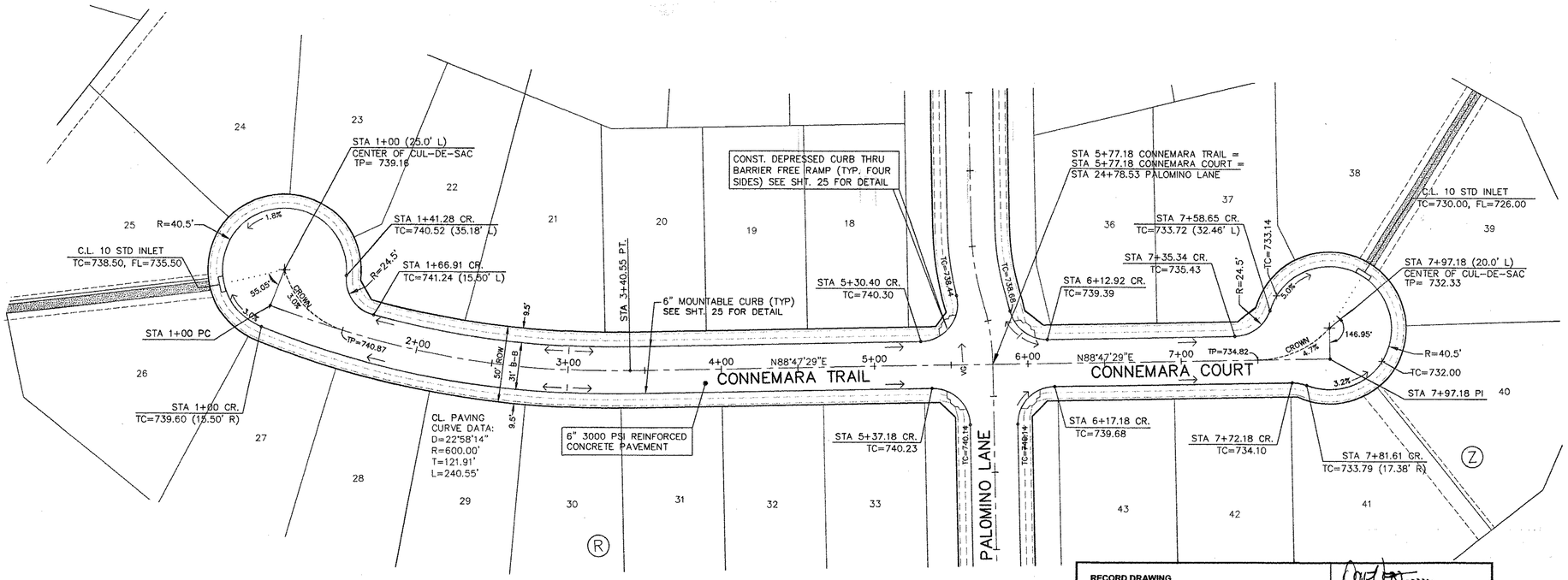

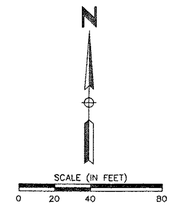

LEGEND:

- MOUNTABLE CURB
- STANDARD INTERGRAL CURB
- SIDEWALK BY HOME BUILDER
- SIDEWALK BY DEVELOPER

NOTE:

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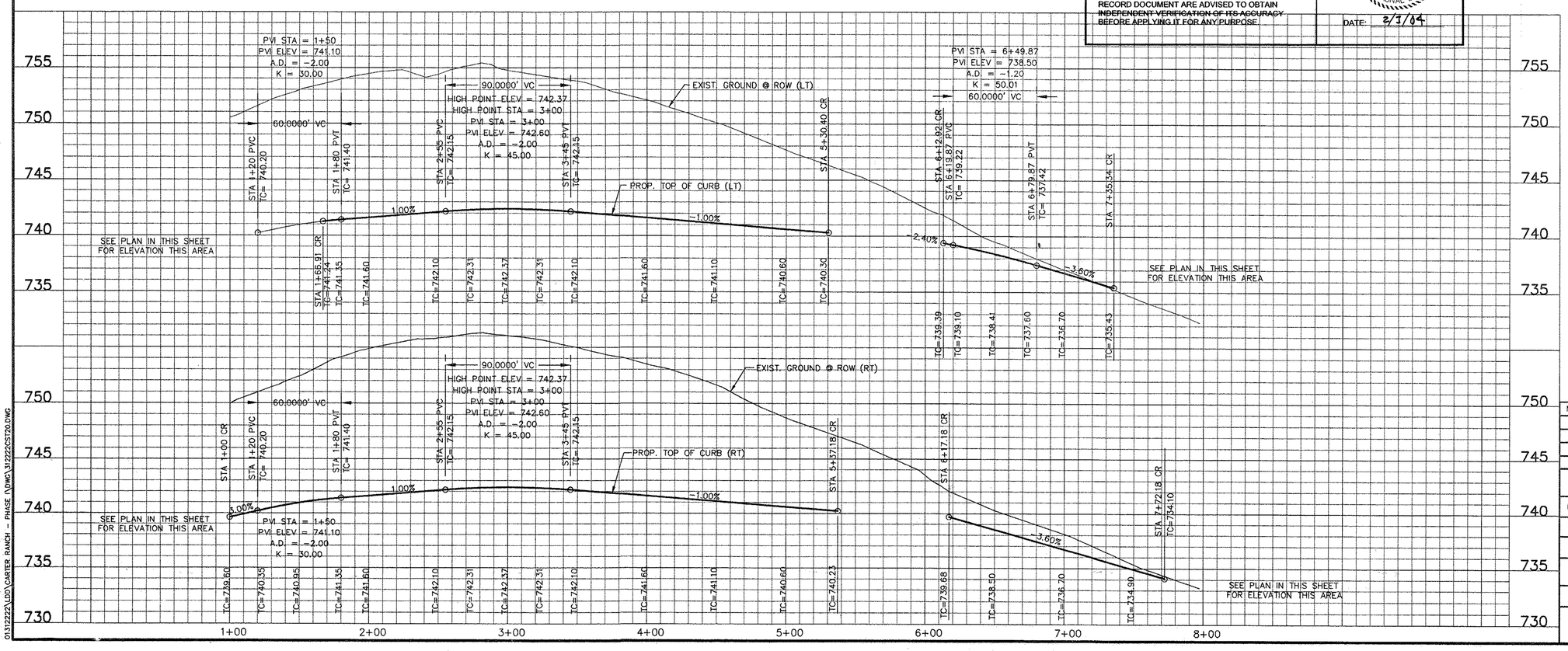
ELEVATION 681.76 FEET



STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

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CONNEMARA TRAIL & CONNEMARA COURT

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

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3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
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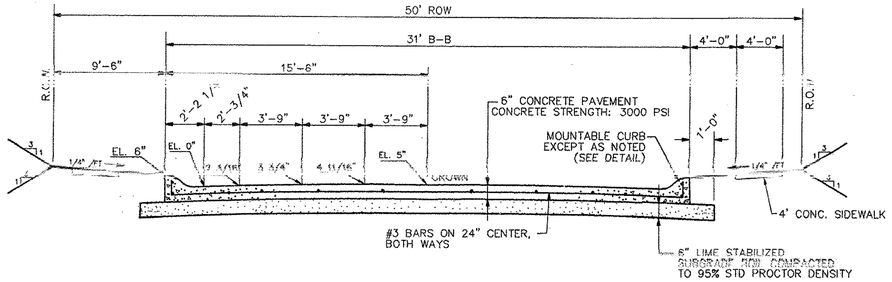
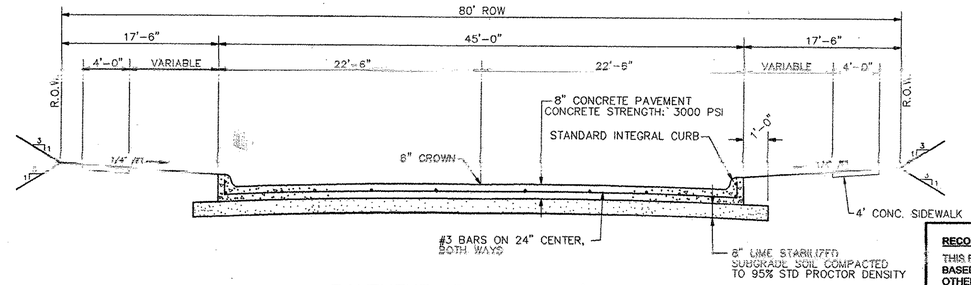


PAVEMENT SECTION – 50' ROW
NTS



PAVEMENT SECTION – 80' ROW
NTS

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80062
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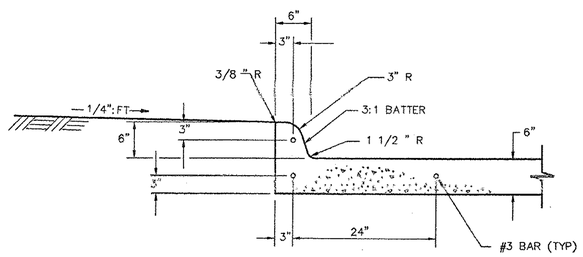
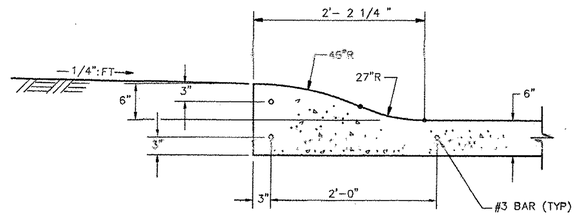
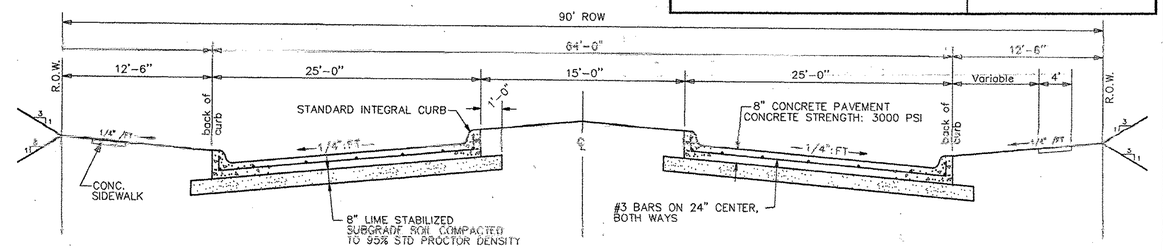


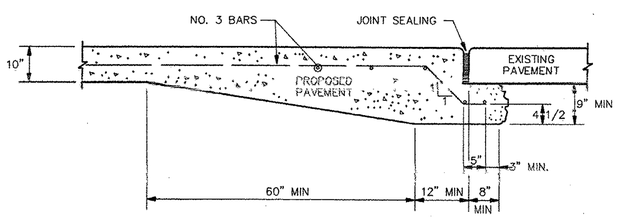
STANDARD INTEGRAL CURB
NTS



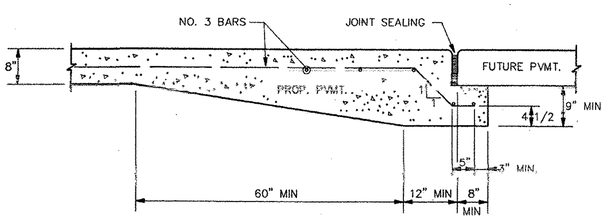
"MODIFIED" MOUNTABLE CURB
NTS



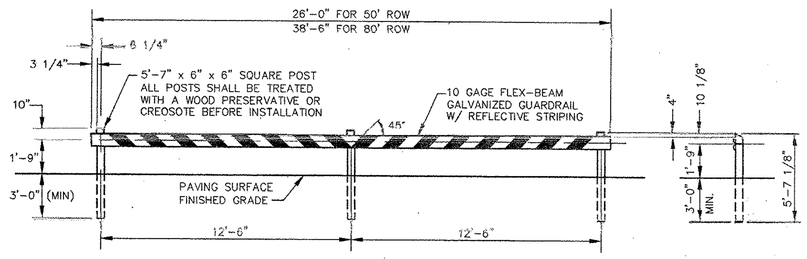
PAVEMENT SECTION – 90' ROW
NTS



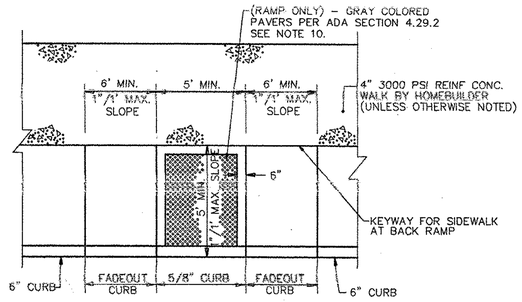
UNDERCUT STREET HEADER DETAIL
NTS



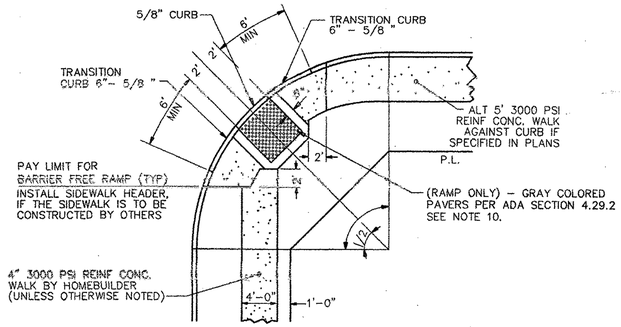
MODIFIED STREET HEADER DETAIL
NTS



TEMPORARY BARRICADE DETAIL
NTS



BARRIER FREE RAMP IN STRAIGHT CURB
SIDEWALK ADJACENT TO CURB



DEPRESSED CURB AT STREET INTERSECTION
NTS

GENERAL NOTES – PAVING

1. See "General Notes – All Disciplines" on Cover Sheet.
2. All fill/embankments shall be compacted to 95% Standard Proctor Density in a maximum of 6" (six) inch lifts over a minimum of 6" scarification and compaction of native soil or per Geotechnical Engineers Report.
3. All excavation for roadways shall include a minimum of 6" overcut/scarification and recompaction of native soil before building up of subgrade.
4. The minimum compressive strength of all concrete shall be 3000 psi at 28 days except that in intersections and in areas where hand finishing is required the minimum compressive strength shall be 4000 psi. The minimum cement ratio shall be 5.5 sacks per cubic yard, except in intersections and in areas where hand finishing is required the minimum cement ratio shall be 6.0 sacks per cubic yard.
5. All reinforcement steel shall be 60 ksi deformed bars properly spaced and tied. Paving reinforcement shall be supported on chairs.
6. Paving Contractor is responsible for all lay down curbs at intersections where barrier free ramps are to be constructed.
7. The contractor shall provide, construct and maintain barricades and signs in accordance with the Texas Manual of Uniform Traffic Control Devices.
8. Construction joints, cold joints and curb returns need to have fabric installed to allow for expansion.
9. Contractor is responsible for placing mountable and barrier curb where indicated. A 10' transition is required when transitioning between barrier and mountable curb.
10. Barrier free ramp pavers will have detectable warning that consists of raised truncated domes with a diameter of 0.9 in., a height of 0.2 in. and a center-to-center spacing of nominal 2.35 in. and shall be gray in color.

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

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PAVING DETAILS

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc.
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757
Dallas

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	AS NOTED		01312222	25

01312222\LEDI\CARTER RANCH - PHASE I\DWG\312222CD701.DWG

P-200304-01

SEE SHEET 27 FOR CONTINUATION OF THIS AREA

SEE SHEET 28 FOR CONTINUATION OF THIS AREA

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
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ELEVATION 681.76 FEET

GRADING NOTES:

1. FINISH FLOOR – 1.1' ABOVE FINISH PAD (PER HOMEBUILDER).
2. GRADE AT FRONT PROPERTY LINE IS 0.2' ABOVE CURB
3. ALL FILL SHALL BE PLACED AS SPECIFIED IN HUD DATA SHEET – 79g
4. GRADE SLOPES AWAY FROM BUILDING PADS WITH A MINIMUM FALL OF 6" AT POINTS 10' (OR LOT LINE)
5. FRONT YARDS TO BE CONTINUOUS SLOPE FROM THE OVERBUILD PAD TO THE FRONT PROPERTY LINE
6. DRIVE GRADIENT PER GRADING DESIGN DOES NOT EXCEED 12% ASSUMING FINISH FLOOR IS SET 0.7' ABOVE DESIGN FINISH PAD.
7. RETAINING WALLS REQUIRED WHERE SLOPES EXCEED 3:1
8. SIDE YARD SWALES TYPICALLY SLOPE AT 1.25% OR AT A MINIMUM OF 1.00% WHERE REQUIRED TO KEEP DRIVE GRADIENT AT 12% OR LESS.

NOTE: GRADING CONTRACTOR SHALL COORDINATE GRADE STAKING WITH HUITT-ZOLLARS SURVEY MANAGER. SEE IMPORTANT LOT GRADING NOTES AND DETAILS.

RECORD DRAWING

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
DATE: 1/16/04

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

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GRADING PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc.
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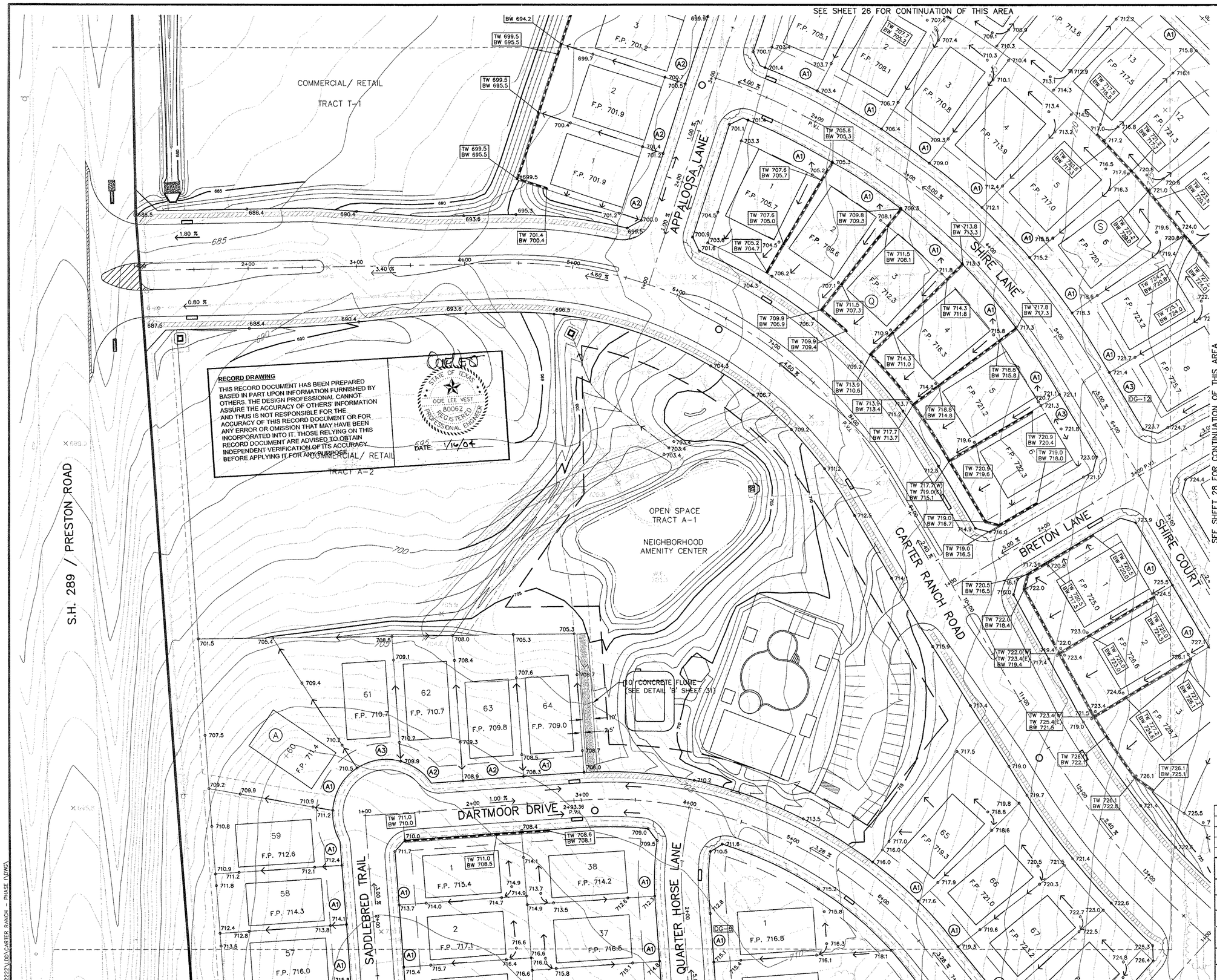
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	1"=40'		01312222	26

01312222\DD\CARTER RANCH - PHASE I.DWG

P-200304-01

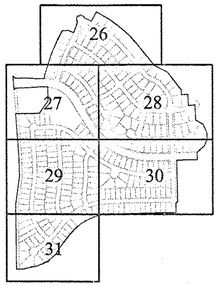


LEGEND

695	PROPOSED CONTOUR
600	EXISTING CONTOUR
→	DIRECTION OF FLOW
	PROP. RETAINING WALL
15	LOT NUMBER
FP 658.3	FINISH PAD ELEVATION
•654.4	SPOT ELEVATION
(A)	BLOCK NUMBER
	SLOPE
DG-12	12" DROP GARAGE
DG-6	6" DROP GARAGE
(A1)	DRIVE ON HIGH SIDE
(A2)	DRIVE EITHER SIDE
(A3)	DRIVE ON LOW SIDE

N

SCALE (IN FEET)
0 20 40 80



NOTE: GRADING CONTRACTOR SHALL COORDINATE GRADE STAKING WITH HUITT-ZOLLARS SURVEY MANAGER. SEE IMPORTANT LOT GRADING NOTES AND DETAILS.

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

GRADING PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

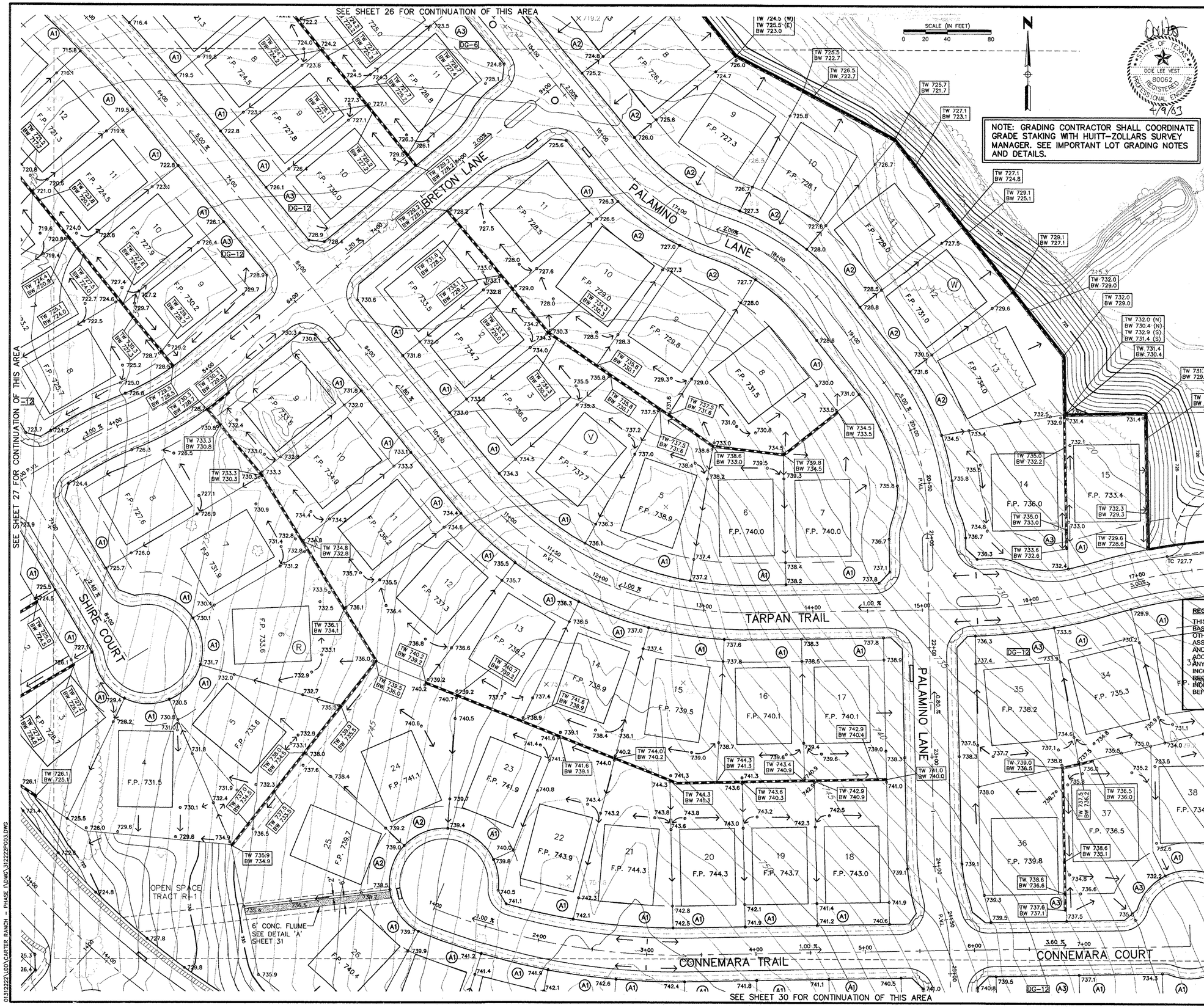
HUITT-ZOLLARS

Huitt-Zollars, Inc.
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311
Fax (214) 871-0757
Dallas

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	1"=40'		01312222	27

01312222\LDD\CARTER RANCH - PHASE I.DWG\

P-200304-01



NOTE: GRADING CONTRACTOR SHALL COORDINATE GRADE STAKING WITH HUITT-ZOLLARS SURVEY MANAGER. SEE IMPORTANT LOT GRADING NOTES AND DETAILS.

STATE OF TEXAS
DOIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

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CARTER RANCH - PHASE I

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DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	DEC. 16 2002	1"=40'			28

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
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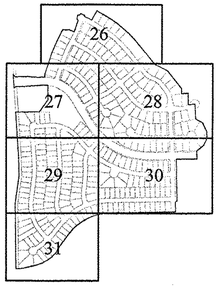
ELEVATION 681.76 FEET



DG-12	12" DROP GARAGE
DG-6	6" DROP GARAGE
A1	DRIVE ON HIGH SIDE
A2	DRIVE EITHER SIDE
A3	DRIVE ON LOW SIDE

RECORD DRAWING
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STATE OF TEXAS
DOIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
DATE: 1/14/04

NO.
28

01312222\LIDR\CARTER RANCH - PHASE I\DWG\31222PG03.DWG

P-200304-01

LEGEND

695	PROPOSED CONTOUR
600	EXISTING CONTOUR
→	DIRECTION OF FLOW
	PROP. RETAINING WALL
15	LOT NUMBER
FP 658.3	FINISH PAD ELEVATION
•654.4	SPOT ELEVATION
(A)	BLOCK NUMBER
	SLOPE
DG-12	12" DROP GARAGE
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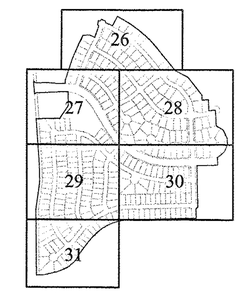

NOTE: GRADING CONTRACTOR SHALL COORDINATE GRADE STAKING WITH HUITT-ZOLLARS SURVEY MANAGER. SEE IMPORTANT LOT GRADING NOTES AND DETAILS.

BENCHMARKS:

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/19/03

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
DATE: 2/19/04

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

GRADING PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

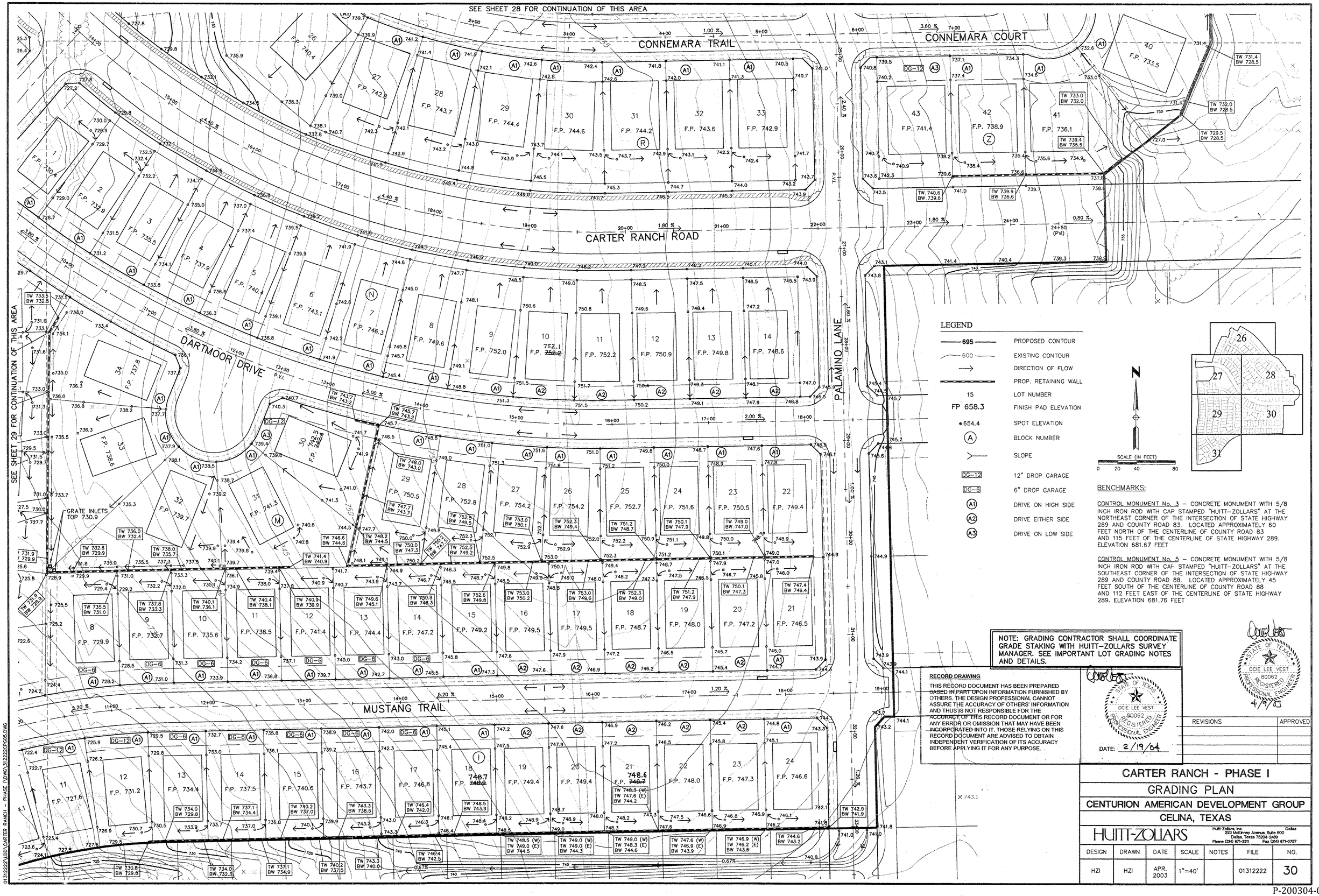
HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3331 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	1"=40'		01312222	29

01312222\LDD\CARTER RANCH - PHASE I\DWG\312222GP004.DWG

P-200304-01



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OCIE LEE VEST
80062
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STATE OF TEXAS
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80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

REVISIONS	APPROVED

CARTER RANCH - PHASE I

GRADING PLAN

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HZI	HZI	APR. 2003	1"=40'		01312222	30

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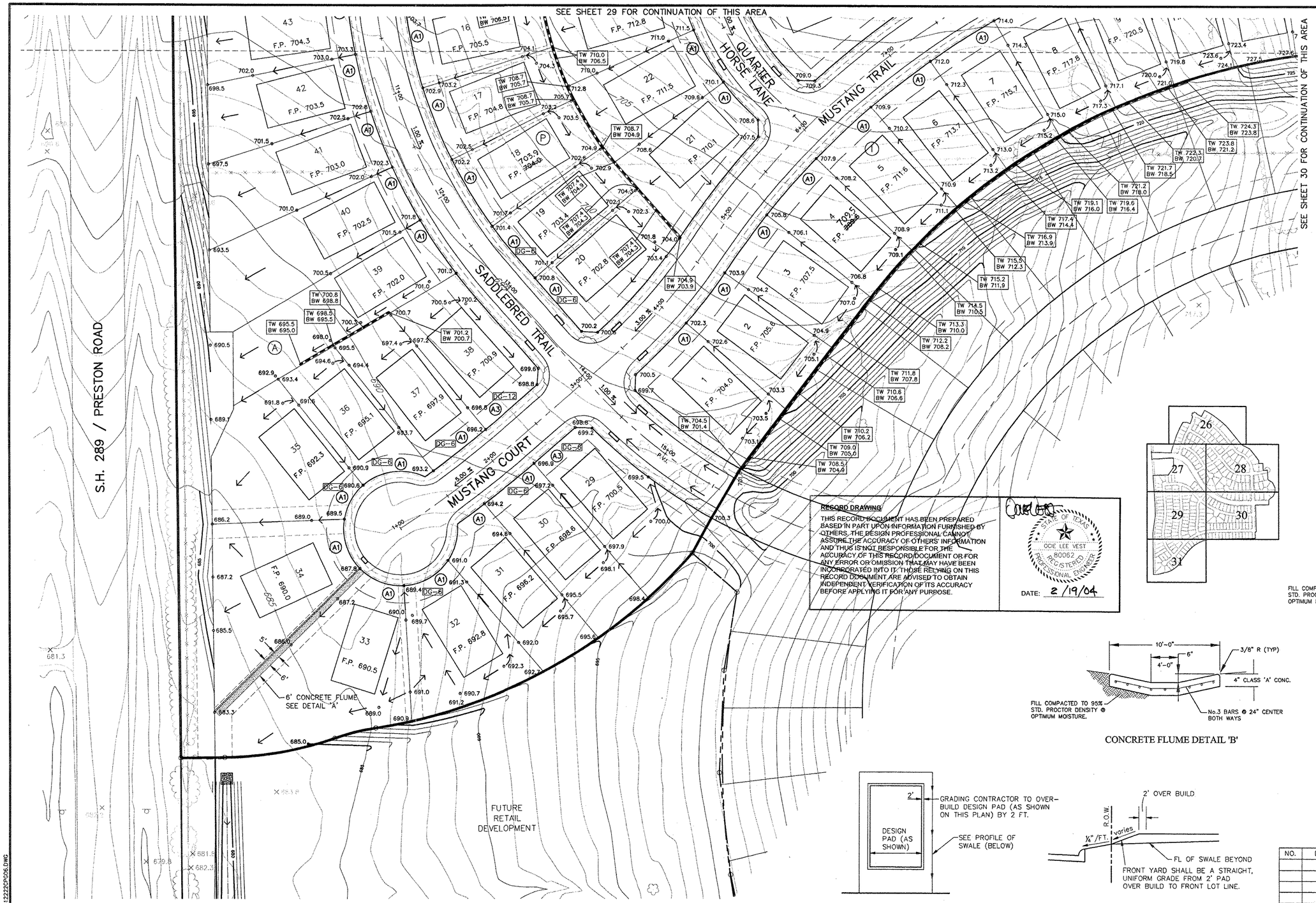
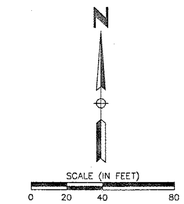
P-200304-01





LEGEND

695	PROPOSED CONTOUR
600	EXISTING CONTOUR
→	DIRECTION OF FLOW
	PROP. RETAINING WALL
15	LOT NUMBER
FP 658.3	FINISH PAD ELEVATION
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DG-12	12" DROP GARAGE
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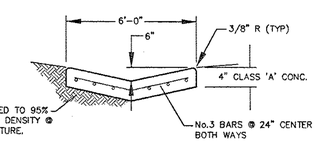
STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
DATE: 2/19/04

CONCRETE FLUME DETAIL 'B'



CONCRETE FLUME DETAIL 'A'

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
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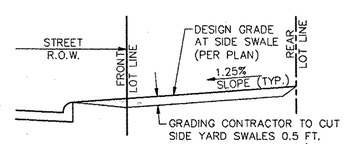

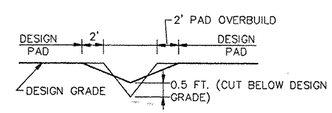

LOT GRADING DETAILS

N.T.S.

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

GRADING PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
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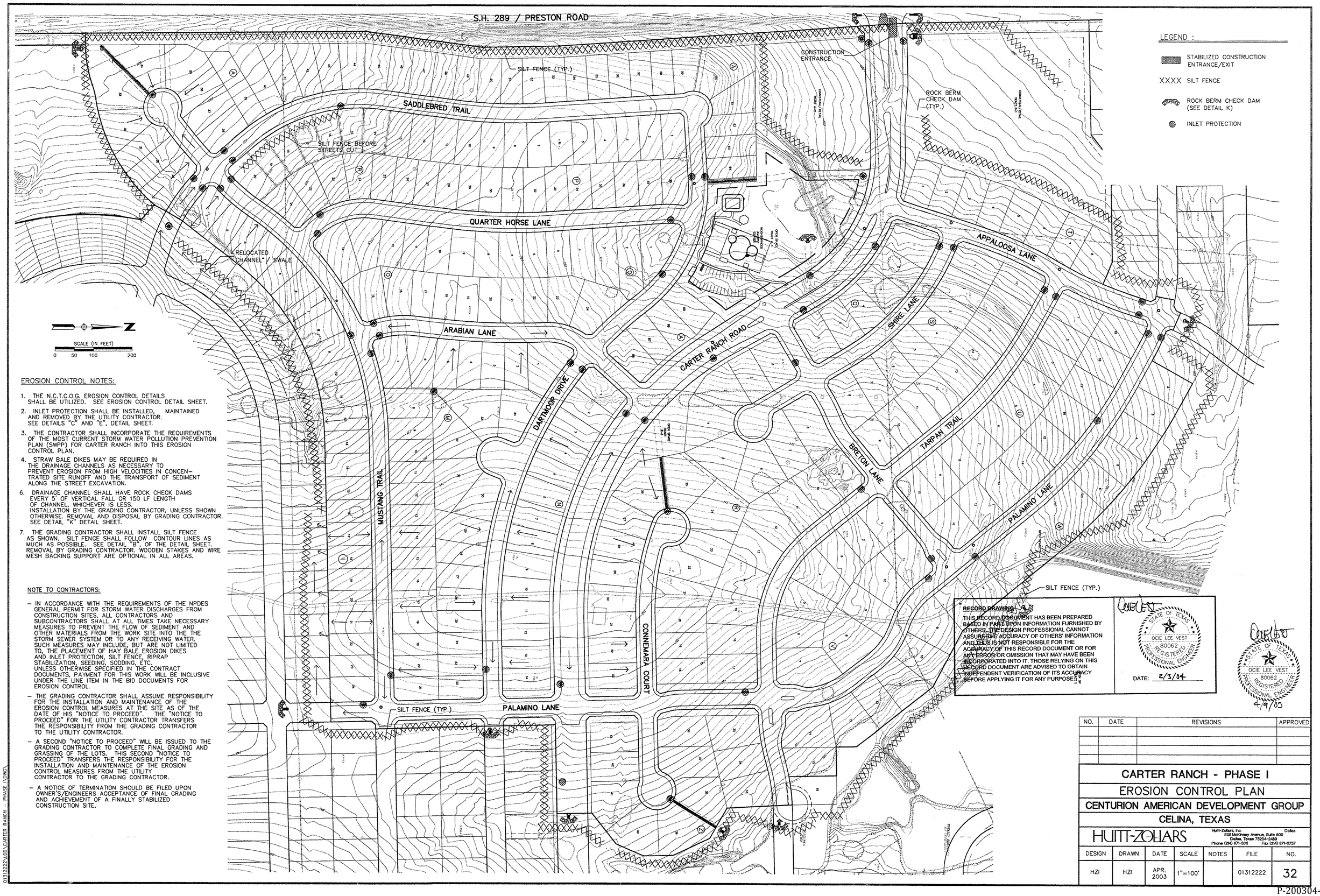
HZI	HZI	APR. 2003	1"=40'		01312222	31

01312222\LDD\CARTER RANCH – PHASE I\DWG\312220P06.DWG

P-200304-01



EROSION CONTROL NOTES:

1. THE N.C.T.C.O.G. EROSION CONTROL DETAILS SHALL BE UTILIZED. SEE EROSION CONTROL DETAIL SHEET.
2. INLET PROTECTION SHALL BE INSTALLED, MAINTAINED AND REMOVED BY THE UTILITY CONTRACTOR. SEE DETAILS "C" AND "E", DETAIL SHEET.
3. THE CONTRACTOR SHALL INCORPORATE THE REQUIREMENTS OF THE MOST CURRENT STORM WATER POLLUTION PREVENTION PLAN (SWPP) FOR CARTER RANCH INTO THIS EROSION CONTROL PLAN.
4. STRAW BALE DIKES MAY BE REQUIRED IN THE DRAINAGE CHANNELS AS NECESSARY TO PREVENT EROSION FROM HIGH VELOCITIES IN CONCEN-TRATED SITE RUNOFF AND THE TRANSPORT OF SEDIMENT ALONG THE STREET EXCAVATION.
6. DRAINAGE CHANNEL SHALL HAVE ROCK CHECK DAMS EVERY 5' OF VERTICAL FALL OR 150 LF LENGTH OF CHANNEL, WHICHEVER IS LESS. INSTALLATION BY THE GRADING CONTRACTOR, UNLESS SHOWN OTHERWISE. REMOVAL AND DISPOSAL BY GRADING CONTRACTOR. SEE DETAIL "K" DETAIL SHEET.
7. THE GRADING CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN. SILT FENCE SHALL FOLLOW CONTOUR LINES AS MUCH AS POSSIBLE. SEE DETAIL "B", OF THE DETAIL SHEET. REMOVAL BY GRADING CONTRACTOR. WOODEN STAKES AND WIRE MESH BACKING SUPPORT ARE OPTIONAL IN ALL AREAS.

NOTE TO CONTRACTORS:

- IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITES, ALL CONTRACTORS AND SUBCONTRACTORS SHALL AT ALL TIMES TAKE NECESSARY MEASURES TO PREVENT THE FLOW OF SEDIMENT AND OTHER MATERIALS FROM THE WORK SITE INTO THE THE STORM SEWER SYSTEM OR TO ANY RECEIVING WATER. SUCH MEASURES MAY INCLUDE, BUT ARE NOT LIMITED TO, THE PLACEMENT OF HAY BALE EROSION DIKES AND INLET PROTECTION, SILT FENCE, RIPRAP STABILIZATION, SEEDING, SODDING, ETC. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, PAYMENT FOR THIS WORK WILL BE INCLUSIVE UNDER THE LINE ITEM IN THE BID DOCUMENTS FOR EROSION CONTROL.
- THE GRADING CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL MEASURES AT THE SITE AS OF THE DATE OF HIS "NOTICE TO PROCEED". THE "NOTICE TO PROCEED" FOR THE UTILITY CONTRACTOR TRANSFERS THE RESPONSIBILITY FROM THE GRADING CONTRACTOR TO THE UTILITY CONTRACTOR.
- A SECOND "NOTICE TO PROCEED" WILL BE ISSUED TO THE GRADING CONTRACTOR TO COMPLETE FINAL GRADING AND GRASSING OF THE LOTS. THIS SECOND "NOTICE TO PROCEED" TRANSFERS THE RESPONSIBILITY FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL MEASURES FROM THE UTILITY CONTRACTOR TO THE GRADING CONTRACTOR.
- A NOTICE OF TERMINATION SHOULD BE FILED UPON OWNER'S/ENGINEERS ACCEPTANCE OF FINAL GRADING AND ACHIEVEMENT OF A FINALLY STABILIZED CONSTRUCTION SITE.

RECORD DRAWING

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Ocie Lee Vest
STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
DATE: 2/3/04

Ocie Lee Vest
STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

EROSION CONTROL PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

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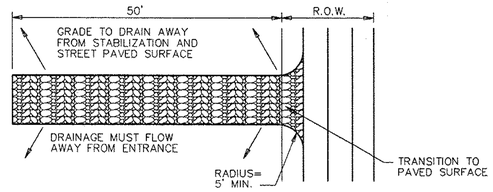
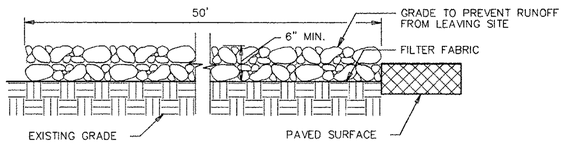
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	1"=100'		01312222	32

01312222\LOD\CARTER RANCH - PHASE I.DWG

P-200304-01



PLAN



PROFILE

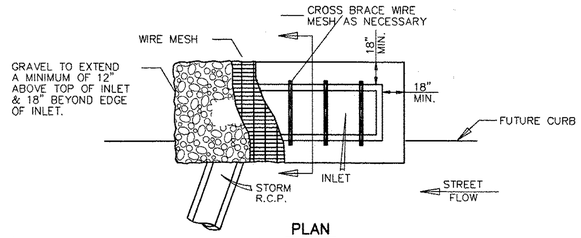
STABILIZED CONSTRUCTION ENTRANCE / EXIT

NCTCOG 02270.G
STORM WATER QUALITY
BEST MANAGEMENT PRACTICES
FOR CONSTRUCTION ACTIVITIES

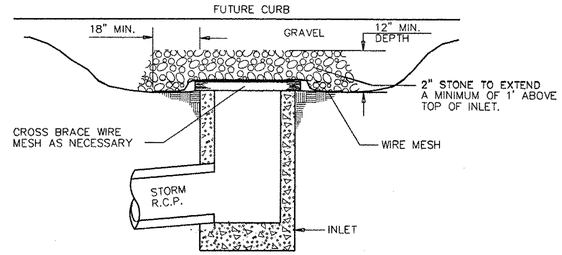
DETAIL 'A'

N.T.S.

The Stabilized Construction Entrance / Exit Is To Be Used As A Vehicle Wash Down Area For Debris And Soil Removal Before Exiting The Site Onto The Existing Roadway. Location For Installation Should Be Identified On The Project's Erosion Control Plan. An Alternate Location Must Be Approved By Owner Or Engineer Prior To Installation. Stabilized Construction Entrance / Exit Shall Be Top Dressed With Additional Stone As Necessary.



PLAN



CROSS-SECTION

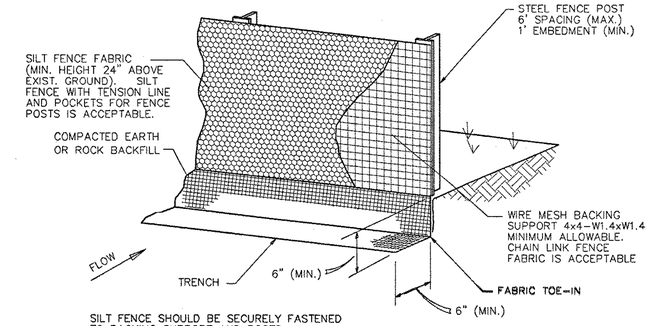
INLET PROTECTION WIRE MESH & GRAVEL

NCTCOG 02270.G
STORM WATER QUALITY
BEST MANAGEMENT PRACTICES
FOR CONSTRUCTION ACTIVITIES

DETAIL 'C'

N.T.S.

CONTRACTOR SHALL INTERCEPT FLOW AND INSTALL INLET PROTECTION MEASURES AS SOON AS PRACTICABLE.



SILT FENCE SHOULD BE SECURELY FASTENED TO BACKING SUPPORT AND POSTS.

SILT FENCE

NCTCOG 02270.B
STORM WATER QUALITY
BEST MANAGEMENT PRACTICES
FOR CONSTRUCTION ACTIVITIES

DETAIL 'B'

N.T.S.

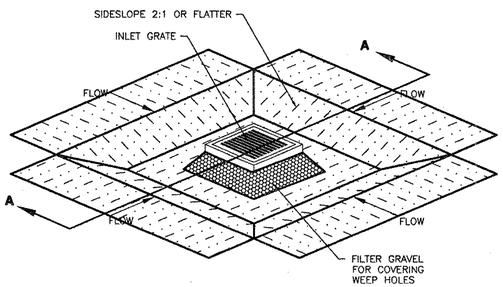
SILT FENCE GENERAL NOTES:

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON 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 ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING 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 STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL.
5. FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
6. INSPECTION SHALL BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
7. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO TO ADDITIONAL SILTATION.

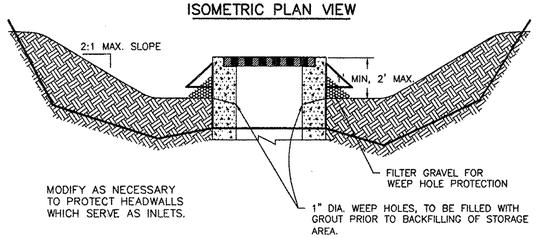
BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON RODWITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET



ISOMETRIC PLAN VIEW

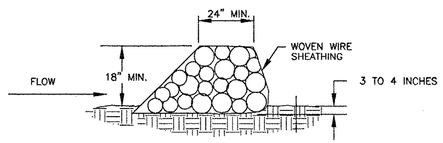


SECTION A-A

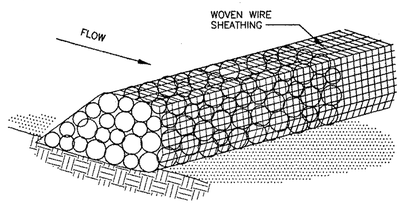
EXCAVATED IMPOUNDMENT INLET PROTECTION

DETAIL 'G'

N.T.S.



CROSS SECTION



ISOMETRIC PLAN VIEW

ROCK BERM

DETAIL 'K'

N.T.S.

RECORD DRAWING

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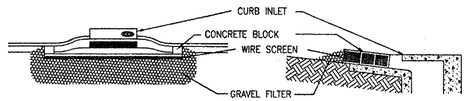
STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04

METHODOLOGY APPLIES TO RECESSED AND STANDARD CURB INLETS. CARE SHOULD BE TAKEN TO KEEP MEASURE OUT OF TRAFFIC.



CURB INLET PROTECTION

DETAIL "E"

N.T.S.

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

EROSION CONTROL DETAILS

CENTURION AMERICAN DEVELOPMENT GROUP

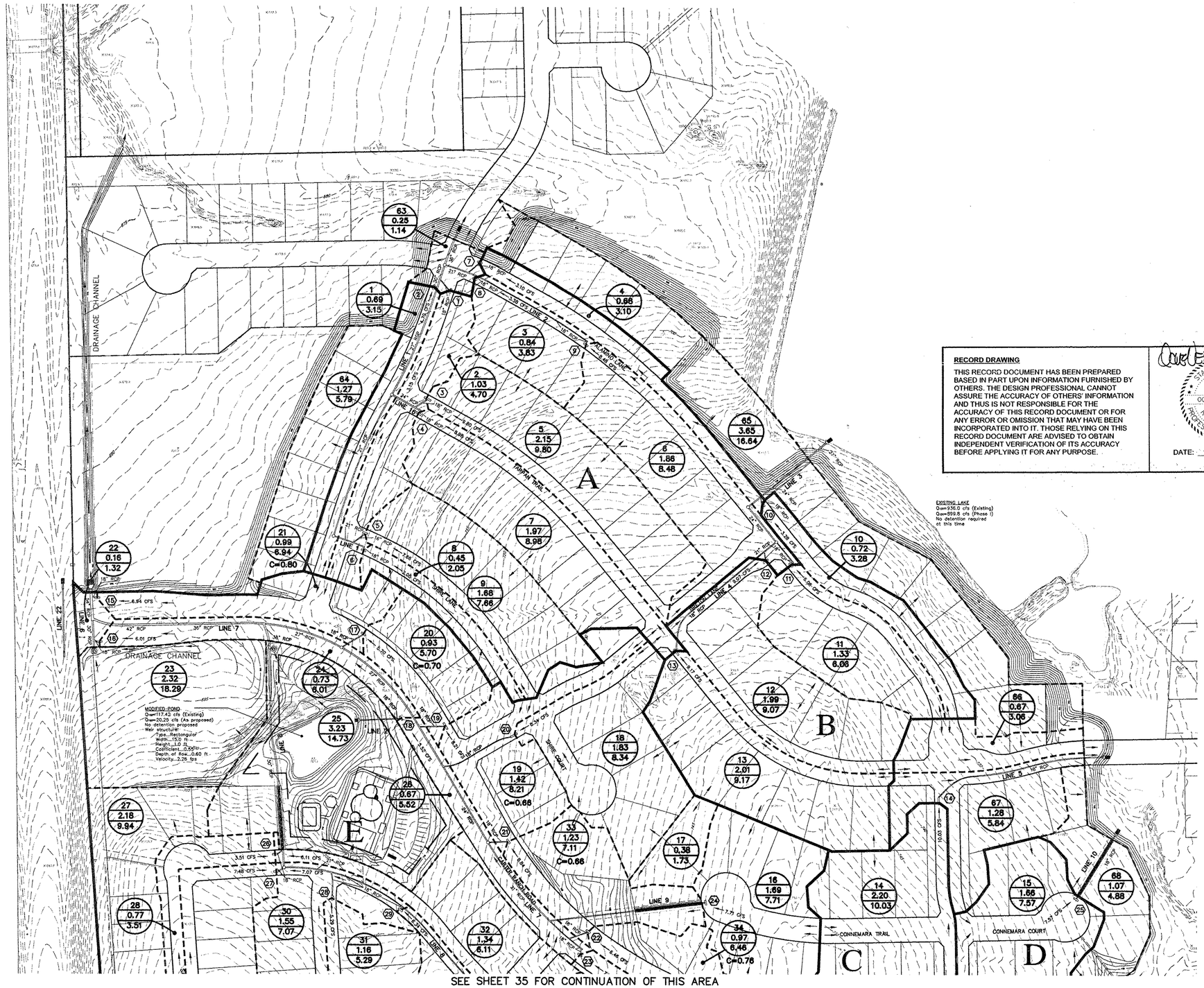
CELINA, TEXAS

HUITT-ZOLLARS
Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003			01312222	33

01312222\DD\CARTER RANCH - PHASE I\DWG\

P-200304-01



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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04

N

0 50 100 200
SCALE IN FEET

LEGEND

- MAJOR DRAINAGE AREA DIVIDE
- MINOR DRAINAGE AREA DIVIDE
- DIRECTION OF FLOW
- L9 — DRAINAGE AREA IDENTIFIER
- 6.57 — AREA, A (acres)
- 31.46 — 100 YEAR STORM RUNOFF, Q (cfs)
- 1 — INLET NUMBER

RATIONAL FORMULA

Q = CIA
T = 15 MINUTES
I = 7.60 in/hr
C = 0.60 (UNLESS OTHERWISE NOTED)

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

DRAINAGE AREA MAP

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
901 McKinney Avenue, Suite 800
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003			0131222201	34

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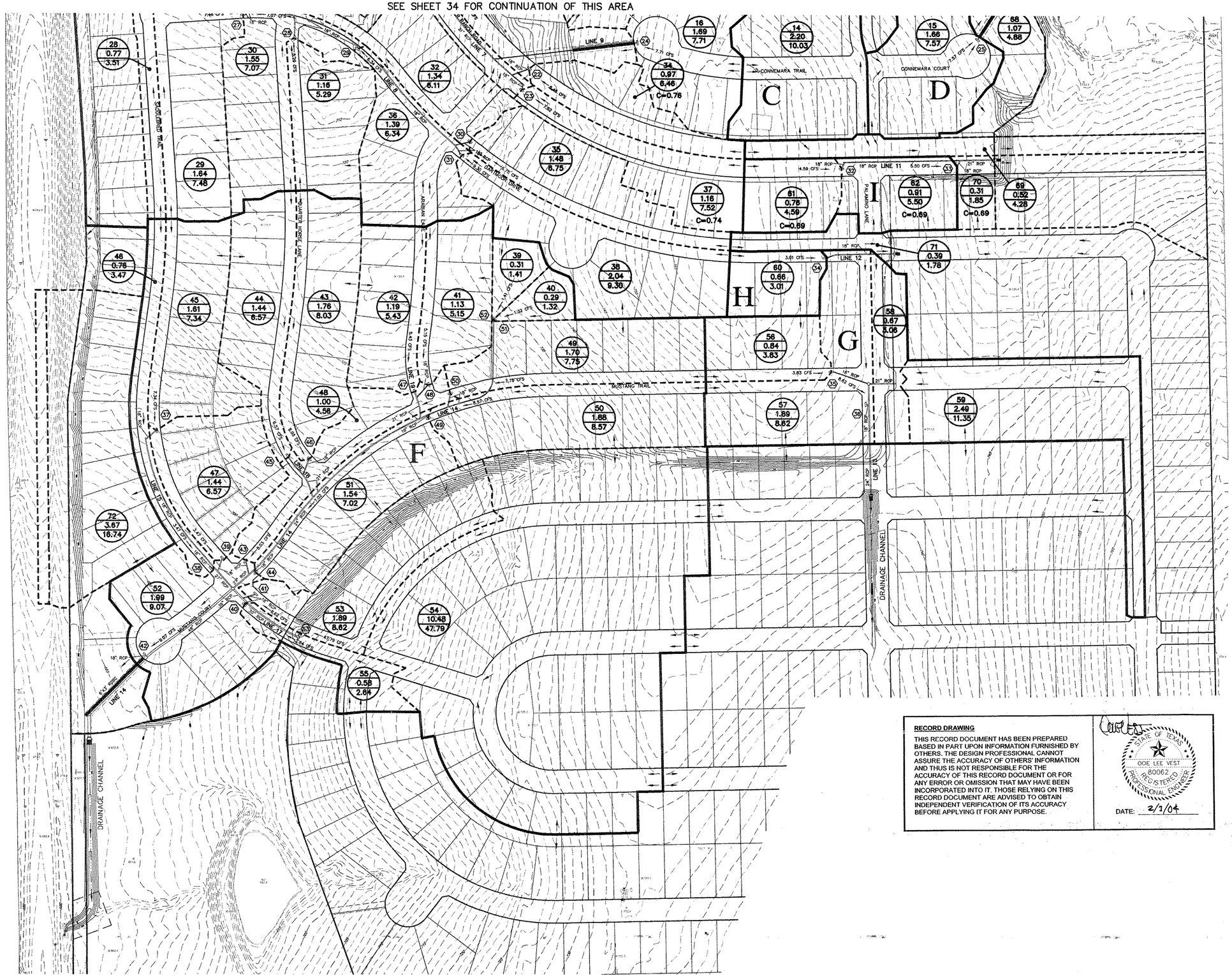
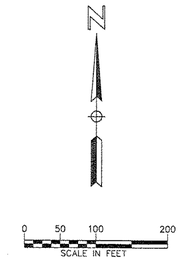
P-200304-01

SEE SHEET 34 FOR CONTINUATION OF THIS AREA





LEGEND

- MAJOR DRAINAGE AREA DIVIDE
- MINOR DRAINAGE AREA DIVIDE
- ← DIRECTION OF FLOW
- L9 / 6.57 / 31.46 — DRAINAGE AREA IDENTIFIER; AREA, A (acres); 100 YEAR STORM RUNOFF, Q (cfs)
- (1) INLET NUMBER

RATIONAL FORMULA

Q = CIA
T = 15 MINUTES
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BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

RECORD DRAWING

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

DATE: 2/2/04

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

DRAINAGE AREA MAP

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
303 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003			0131222201	35

0131222\LDD\CARTER RANCH – PHASE I\DWG\3122220A02.DWG

P-200304-01

STORM SEWER LINE "1"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	TOTAL STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
820.97	818.34	2.63	6	0.45	0.60	0.27	0.27	15	100	7.60	2.05	2.05	0.0100	21	2.4050	0.85	PAR	N/A	0.05	14.95
818.34	796.00	22.34	5	1.68	0.60	1.01	1.28	15	100	7.60	7.66	2.05	0.0100	21	2.4050	0.85	PAR	N/A	0.44	14.56
796.00	754.33	41.67	M.H.	0.00	0.60	0.00	1.28	15	100	7.60	0.00	9.71	0.0100	21	2.4050	4.04	PAR	N/A	0.17	14.83
754.33	448.92	305.41	MH/LINE 16	4.12	0.60	2.47	3.75	15	100	7.60	18.79	9.71	0.0148	21	2.4050	4.04	PAR	N/A	1.26	13.74
448.92	214.66	234.26	2	0.69	0.60	0.41	4.16	15	100	7.60	3.15	28.50	0.0148	27	3.9760	7.17	PAR	N/A	0.54	14.46
214.66	199.65	15.01	1	1.03	0.60	0.62	4.78	15	100	7.60	4.70	31.65	0.0148	30	4.9090	6.45	PAR	N/A	0.04	14.96
199.65	169.65	30.00	MH/LINE 2	3.38	0.60	2.03	6.81	15	100	7.60	15.41	36.34	0.0148	30	4.9090	7.40	PAR	N/A	0.07	14.93
169.65	120.00	49.65	PVI	0.00	0.60	0.00	6.81	15	100	7.60	0.00	51.76	0.0094	33	5.9400	8.71	0.33	0.39	0.09	14.91
120.00	100.00	20.00	HDW	0.00	0.60	0.00	6.81	15	100	7.60	0.00	51.76	0.0094	33	5.9400	8.71	0.33	0.39	0.04	14.96

STORM SEWER LINE "2"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
426.45	424.02	2.43	9	1.86	0.60	1.12	1.12	15	100	7.60	8.48	8.48	0.0440	18	1.7670	4.80	PAR	N/A	0.01	14.99
424.02	215.00	209.02	PVI	0.00	0.60	0.00	1.12	15	100	7.60	0.00	8.48	0.0440	18	1.7670	4.80	PAR	N/A	0.73	14.27
215.00	163.69	51.31	8	0.84	0.60	0.50	1.62	15	100	7.60	3.83	8.48	0.0160	18	1.7670	4.80	PAR	N/A	0.18	14.82
163.69	149.33	14.36	7	0.68	0.60	0.41	2.03	15	100	7.60	3.10	12.31	0.0160	21	2.4050	5.12	PAR	N/A	0.05	14.95
149.33	100.00	49.33	MH/LINE 1	0.00	0.60	0.00	2.03	15	100	7.60	0.00	15.41	0.0160	21	2.4050	6.41	PAR	N/A	0.13	14.87

STORM SEWER LINE "3"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
406.60	404.17	2.43	11	1.33	0.60	0.80	0.80	15	100	7.60	6.06	6.06	0.0100	18	1.7670	3.43	PAR	N/A	0.01	14.99
404.17	352.35	51.82	MH/LINE 4	4.00	0.60	2.40	3.20	15	100	7.60	18.24	6.06	0.0100	18	1.7670	3.43	PAR	N/A	0.25	14.75
352.35	262.50	89.85	M.H.	0.00	0.60	0.00	3.20	15	100	7.60	0.00	24.30	0.0100	24	3.1420	7.74	PAR	N/A	0.19	14.81
262.50	229.73	32.77	10	0.72	0.60	0.43	3.63	15	100	7.60	3.28	24.30	0.0361	24	3.1420	7.74	PAR	N/A	0.07	14.93
229.73	140.00	89.73	PVI	0.00	0.60	0.00	3.63	15	100	7.60	0.00	27.59	0.0361	24	3.1420	8.78	PAR	N/A	0.17	14.83
140.00	100.00	40.00	PVI	0.00	0.60	0.00	3.63	15	100	7.60	0.00	27.59	0.0950	27	3.9760	6.94	PAR	N/A	0.10	14.90
100.00	60.00	40.00	HDW	0.00	0.60	0.00	3.63	15	100	7.60	0.00	27.59	0.0080	27	3.9760	6.94	FULL	N/A	0.10	14.90

STORM SEWER LINE "4"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
409.92	409.92	0.00	13	2.01	0.60	1.21	1.21	15	100	7.60	9.17	9.17	0.0000	18	1.7670	5.19	PAR	N/A	0.00	15.00
409.92	250.00	159.92	PVI	0.00	0.60	0.00	1.21	15	100	7.60	0.00	9.17	0.0154	18	1.7670	5.19	PAR	N/A	0.51	14.49
250.00	131.35	118.65	12	1.99	0.60	1.19	2.40	15	100	7.60	9.07	9.17	0.0232	18	1.7670	5.19	PAR	N/A	0.38	14.62
131.35	100.00	31.35	MH/LINE3	0.00	0.60	0.00	2.40	15	100	7.60	0.00	18.24	0.0232	24	3.1420	5.81	PAR	N/A	0.09	14.91

STORM SEWER LINE "5"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
448.56	448.56	0.00	14	2.20	0.60	1.32	1.32	15	100	7.60	10.03	10.03	0.0000	18	1.7670	5.68	PAR	N/A	0.00	15.00
448.56	350.00	98.56	PVI	0.00	0.60	0.00	1.32	15	100	7.60	0.00	10.03	0.0161	18	1.7670	5.68	PAR	N/A	0.29	14.71
350.00	125.00	225.00	PVI	0.00	0.60	0.00	1.32	15	100	7.60	0.00	10.03	0.0557	18	1.7670	5.68	PAR	N/A	0.66	14.34
125.00	100.00	25.00	HDW	0.00	0.60	0.00	1.32	15	100	7.60	0.00	10.03	0.0100	18	1.7670	5.68	PAR	N/A	0.07	14.93

STORM SEWER LINE "6"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
226.06	226.06	0.00	AREA 23/27	0.00	0.60	0.00	0.00	15	100	7.60	28.22	28.22	0.0850	30	4.9090	5.75	PAR	N/A	0.00	15.00
226.06	203.27	22.79	16	0.73	0.94	0.69	0.69	10	100	8.76	6.01	28.22	0.0850	30	4.9090	5.75	PAR	N/A	0.07	9.93
203.27	160.81	42.46	LINE 7	0.00	0.60	0.00	0.69	15	100	7.60	124.88	34.23	0.0850	30	4.9090	6.97	PAR	N/A	0.10	14.90
160.81	115.16	45.65	15	0.90	0.80	0.72	1.41	10	100	8.76	6.31	159.11	0.0850	54	15.9040	10.00	PAR	N/A	0.08	9.92
115.16	100.00	15.16	HDW	0.00	0.60	0.00	1.41	15	100	7.60	0.00	165.42	0.0850	54	15.9040	10.40	PAR	N/A	0.02	14.98

STORM SEWER LINE "7"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
1396.58	1393.27	3.31	23	1.16	0.74	0.86	0.86	10	100	8.76	7.52	7.52	0.0440	18	1.7670	4.26	PAR	N/A	0.01	9.99
1393.27	1361.84	31.43	22	0.97	0.76	0.74	1.60	10	100	8.76	6.46	7.52	0.0440	18	1.7670	4.26	PAR	N/A	0.12	9.88
1361.84	1308.96	52.88	LINE 9	1.69	0.60	1.01	2.61	15	100	7.60	7.71	13.98	0.0440	18	1.7670	7.91	PAR	N/A	0.11	14.89
1308.96	1270.00	38.96	PVI	0.00	0.60	0.00	2.61	15	100	7.60	0.00	21.68	0.0440	21	2.4050	9.02	PAR	N/A	0.07	14.93
1270.00	1109.48	160.52	MH	0.00	0.60	0.00	2.61	15	100	7.60	6.84	21.68	0.0236	21	2.4050	9.02	PAR	N/A	0.30	14.70
1109.48	932.55	176.93	20	1.83	0.60	1.10	3.71	15	100	7.60	8.34	30.52	0.0236	24	3.1420	9.71	PAR	N/A	0.30	14.70
932.55	838.34	94.21	19	1.42	0.66	0.94	4.64	10	100	8.76	8.21	38.87	0.0236	27	3.9760	9.78	PAR	N/A	0.16	9.84
838.34	770.00	68.34	PVI	0.00	0.60	0.00	4.64	15	100	7.60	0.00	47.08	0.0236	27	3.9760	11.84	PAR	N/A	0.10	14.90
770.00	611.06	158.94	MH	0.93	0.70	0.65	2.25	10	100	8.76	5.70	47.08	0.0460	27	3.9760	11.84	PAR	N/A	0.22	9.78
611.06	469.00	142.06	PVI	0.00	0.60	0.00	2.61	15	100	7.60	0.00	52.78	0.0460	27	3.9760	13.27	PAR	N/A	0.18	14.82
469.00	445.92	23.08	LINE 8	0.00	0.60	0.00	2.61	15	100	7.60	72.10	52.78	0.0460	27	3.9760	13.27	PAR	N/A	0.03	14.97
445.92	275.00	170.92	PVI	0.00	0.60	0.00	2.61	15	100	7.60	0.00	124.88	0.0330	36	7.0690	17.67	PAR	N/A	0.16	14.84
275.00	160.00	115.00	PVI	0.00	0.60	0.00	2.61	15	100	7.60	0.00	124.88	0.0180	42	9.6210	12.98	PAR	N/A	0.15	14.85
160.00	100.00	60.00	LINE 6	0.00	0.60	0.00	2.61	15	100	7.60	0.00	124.88	0.0100	42	9.6210	12.98	FULL	N/A	0.08	14.92

STORM SEWER LINE "8"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
1175.58	1175.58	0.00	31	2.04	0.60	1.22	1.22	15	100	7.60	9.30	9.30	0.0470	18	1.7670	5.26	PAR	N/A	0.00	15.00
1175.58	1154.33	21.25	PVI	0.00	0.60	0.00	1.22	15	100	7.60	0.00	9.30	0.0470	18	1.7670	5.26	PAR	N/A	0.07	14.93
1154.33	1150.00	4.33	30	1.48	0.60	0.89	2.11	15	100	7.60	6.75	9.30	0.0470	18	1.7670	5.26	PAR	N/A	0.01	14.99
1150.00	846.48	303.52	29	1.39	0.60	0.83	2.95	15	100	7.60	6.34	16.05	0.0328	18	1.7670	9.08	PAR	N/A	0.56	14.44
846.48	688.31	158.17	28	1.16	0.60	0.70	3.64	15	100	7.60	5.29	22.39	0.0328	18	1.7670	12.67	PAR	N/A	0.21	14.79
688.31	593.03	95.28	MH	3.19	0.60	1.91	5.56	15	100	7.60	14.55	27.68	0.0328	21	2.4050	11.51	PAR	N/A	0.14	14.86
593.03	558.95	34.08	26	2.11	0.60	1.27	6.82	15	100	7.60	9.62	42.23	0.0160	30	4.9090	8.60	PAR	N/A	0.07	14.93
558.95	375.00	183.95	PVI	0.00	0.60	0.00	6.82	15	100	7.60	0.00	51.85	0.0160	30	4.9090	10.56	PAR	N/A	0.29	14.71
375.00	250.00	125.00	PVI	0.00	0.60	0.00	6.82	15	100	7.60	0.00	51.85	0.0437	30	4.9090	10.56	PAR	N/A	0.20	14.80
250.00	148.79	101.21	AREA-25/16	0.00	0.60	0.00	6.82	15	100	7.60	20.25	51.85	0.0172	30	4.9090	10.56	PAR	N/A	0.16	14.84
148.79	100.00	48.79	LINE 7	0.00	0.60	0.00	6.82	15	100	7.60	0.00	72.10	0.0375	36	7.0690	10.20	PAR	N/A	0.08	14.92

STORM SEWER LINE "9"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
414.21	414.21	0.00	24	1.69	0.60	1.01	1.01	15	100	7.60	7.71	7.71	0.0198	18	1.7670	4.36	PAR	N/A	0.00	15.00
414.21	277.00	137.21	PVI	0.00	0.60	0.00	1.01	15	100	7.60	0.00	7.71	0.0198	18	1.7670	4.36	PAR	N/A	0.52	14.48
277.00	200.00	77.00	PVI	0.00	0.60	0.00	1.01	15	100	7.60	0.00	7.71	0.1013	18	1.7670	4.36	PAR	N/A	0.29	14.71
200.00	100.00	100.00	PVI	0.00	0.60	0.00	1.01	15	100	7.60	0.00	7.71	0.0515	18	1.7670	4.36	PAR	N/A	0.38	14.62

STORM SEWER LINE "10"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
247.97	247.97	0.00	25	1.66	0.60	1.00	1.00	15	100	7.60	7.57	7.57	0.2350	18	1.7670	4.28	PAR	N/A	0.00	15.00
247.97	150.00	97.97	PVI	0.00	0.60	0.00	1.00	15	100	7.60	0.00	7.57	0.0235	18	1.7670	4.28	PAR	N/A	0.38	14.62
150.00	100.00	50.00	HDW	0.00	0.60	0.00	1.00	15	100	7.60	0.00	7.57	0.0100	18	1.7670	4.28	PAR	N/A	0.19	14.81

STORM SEWER LINE "11"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
431.29	428.29	3.00	32	0.76	0.69	0.52	0.52	10	100	8.76	4.59	4.59	0.0180	18	1.7670	2.60	PAR	N/A	0.02	9.98
428.29	175.21	253.08	33	0.91	0.69	0.63	1.15	10	100	8.76	5.50	4.59	0.0180	18	1.7670	2.60	PAR	N/A	1.62	8.38
175.21	150.00	25.21	PVI	0.00	0.60	0.00	1.15	15	100	7.60	0.00	10.09	0.0180	21	2.4050	4.20	PAR	N/A	0.10	14.90
150.00	100.00	50.00	HDW	0.00	0.60	0.00	1.15	15	100	7.60	0.00	10.09	0.0080	21	2.4050	4.20	PAR	N/A	0.20	14.80

STORM SEWER LINE "13"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
301.00	301.00	0.00	21" PLUG	0.00	0.60	0.00	0.00	15	100	7.60	11.35	11.35	0.0140	21	2.4050	4.72	PAR	N/A	N/A	N/A
301.00	241.00	60.00	35	0.84	0.60	0.50	0.50	15	100	7.60	3.83	11.35	0.0140	21	2.4050	4.72	PAR	N/A	N/A	N/A
241.00	192.80	48.20	36	1.89	0.60	1.13	1.64	15	100	7.60	8.62	15.18	0.0140	24	3.1420	4.83	PAR	N/A	0.17	14.83
192.80	0.00	192.80	HDW	0.00	0.60	0.00	1.64	15	100	7.60	0.00	23.80	0.0140	24	3.1420	7.57	PAR	N/A	0.42	14.58

STORM SEWER LINE "14"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
1320.67	1320.67	0.00	51-52	0.60	0.60	0.36	0.36	15	100	7.60	2.74	2.74	0.0471	18	1.7670	1.55	PAR	N/A	0.00	15.00
1320.67	1191.24	129.43	50	1.70	0.60	1.02	1.38	15	100	7.60	7.75	2.74	0.0471	18	1.7670	1.55	PAR	N/A	1.39	13.61
1191.24	1142.48	48.76	49	1.88	0.60	1.13	2.51	15	100	7.60	8.57	10.49	0.0471	18	1.7670	5.94	PAR	N/A	0.14	14.86
1142.48	1129.13	13.35	LINE 19	2.32	0.60	1.39	3.90	15	100	7.60	10.58	19.06	0.0300	21	2.4050	7.93	PAR	N/A	0.03	14.97
1129.13	1050.00	79.13	MH	0.00	0.60	0.00	3.90	15	100	7.60	0.00	29.64	0.0300	21	2.4050	12.32	PAR	N/A	0.11	14.89
1050.00	835.50	214.50	LINE 18	3.20	0.60	1.92	5.82	15	100	7.60	14.59	29.64	0.0300	21	2.4050	12.32	PAR	N/A	0.29	14.71
835.50	625.48	210.02	44	1.54	0.60	0.92	6.74	15	100	7.60	7.02	44.23	0.0300	24	3.1420	14.08	PAR	N/A	0.25	14.75
625.48	614.32	11.16	43	1.76	0.60	1.06	7.80	15	100	7.60	8.03	51.25	0.0300	27	3.9760	12.89	PAR	N/A	0.01	14.99
614.32	567.76	46.56	MH	0.00	0.60	0.00	1.38	15	100	7.60	76.73	59.28	0.0300	27	3.9760	14.91	PAR	N/A	0.05	14.95
567.76	336.97	230.79	PVI	0.00	0.60	0.00	2.51	15	100	7.60	0.00	136.01	0.0502	48	12.5660	10.82	PAR	N/A	0.36	14.64
336.97	324.97	12.00	42	1.99	0.60	1.19	3.70	15	100	7.60	9.07	136.01	0.0050	6'X3' RCBC	18.0000	7.56	PAR	N/A	0.03	14.97
324.97	150.00	174.97	MH	0.00	0.60	0.00	3.70	15	100	7.60	0.00	145.08	0.0050	6'X3' RCBC	18.0000	8.06	PAR	N/A	0.36	14.64
150.00	100.00	50.00	HDW	0.00	0.60	0.00	3.70	15	100	7.60	0.00	145.08	0.0050	6'X3' RCBC	18.0000	8.06	PAR	N/A	0.10	14.90

STORM SEWER LINE "15"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
488.61	485.54	3.07	37	1.61	0.60	0.97	0.97	15	100	7.60	7.34	7.34	0.0100	18	1.7670	4.15	PAR	N/A	0.01	14.99
485.54	200.00	285.54	PVI	0.00	0.60	0.00	0.97	15	100	7.60	0.00	7.34	0.0100	18	1.7670	4.15	PAR	N/A	1.15	13.85
200.00	161.89	38.11	38	0.76	0.60	0.46	1.42	15	100	7.60	3.47	7.34	0.0236	18	1.7670	4.15	PAR	N/A	0.15	14.85
161.89	150.49	11.40	39	1.44	0.60	0.86	2.29	15	100	7.60	6.57	10.81	0.0236	24	3.1420	3.44	PAR	N/A	0.06	14.94
150.49	100.00	50.49	LINE 14	0.00	0.60	0.00	2.29	15	100	7.60	0.00	17.37	0.0236	24	3.1420	5.53	PAR	N/A	0.15	14.85

STORM SEWER LINE "16"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
166.65	163.98	2.67	4	1.97	0.60	1.18	1.18	15	100	7.60	8.98	8.98	0.0140	21	2.4050	3.74	PAR	N/A	0.01	14.99
163.98	152.43	11.55	3	2.15	0.60	1.29	2.47	15	100	7.60	9.80	8.98	0.0140	21	2.4050	3.74	PAR	N/A	0.05	14.95
152.43	100.00	52.43	LINE 1	0.00	0.60	0.00	2.47	15	100	7.60	0.00	18.79	0.0140	21	2.4050	7.81	PAR	N/A	0.11	14.89

STORM SEWER LINE "17"

UPSTREAM	DOWNSTREAM	DISTANCE BETWEEN COLLECTION POINTS	INLET No.	AREA "A"	RUNOFF COEFF. "C"	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT UPSTREAM STATION	DESIGN STORM FREQ.	INTENSITY "I"	STORM WATER RUNOFF "Q"	STORM WATER RUNOFF "Q"	SLOPE OF HYDRAULIC GRADIENT "S"	SELECTED STORM SEWER SIZE DIAMETER	AREA OF CIRCULAR CONCRETE PIPE "C1"	VELOCITY IN STORM BETWEEN COLLECTION POINTS "V"	HEAD LOSS COEFF. "Kj"	VELOCITY HEAD LOSS AT UPSTREAM STATION (Kj*V^2/2G)	FLOW TIME IN STORM (DIS./V*60)	TIME AT DOWNSTREAM STATION
FT.	FT.	FT.	NUM.	AC.	IN.	AC.	AC.	MIN.	YRS.	IN./HR.	CFS	CFS	FT./FT.	IN.	SF.	FPS	IN./IN.	FT.	MIN.	MIN.
282.52	277.14	5.38	53	10.48	0.60	6.29	6.29	15	100	7.60	47.79	47.79	0.0374	30	4.9090	9.73	PAR	N/A	0.01	14.99
277.14	225.00	52.14	PVI	0.00	0.60	0.00	6.29	15	100	7.60	0.00	47.79	0.0374	30	4.9090	9.73	PAR	N/A	0.09	14.91
225.00	139.39	85.61	40	0.58	0.60	0.35	6.64	15	100	7.60	2.64	47.79	0.0147	30	4.9090	9.73	PAR	N/A	0.15	14.85
139.39	129.76	9.63	41	1.89	0.60	1.13	7.77	15	100	7.60	8.62	50.43	0.0147	36	7.0690	7.13	PAR	N/A	0.02	14.98
129.76	100.00	29.76	LINE 14	0.00	0.60	0.00	7.77	15	100	7.60	0.00	59.05	0.0147	36	7.0690	8.35	PAR	N/A	0.06	14.94

CITY OF CELINA - INLET COMPUTATIONS

ID	LOCATION	DRAINAGE AREA	DESIGN STORM FREQUENCY (YRS)	TIME OF CONC. (MIN.)	INTENSITY "I" (IN./HR.)	RUNOFF COEFF. "C"	AREA (AC)	"Q" (C.F.S)	CARRY OVER FROM UPSTREAM INLET	TOTAL GUTTER FLOW (C.F.S)	STREET CAPACITY (C.F.S)	STREET SLOPE (%)	CROWN TYPE	LENGTH "LI" (FEET)	TYPE	CAPACITY (C.F.S)	INTERCEPTED FLOW (C.F.S)	CARRY OVER TO DOWNSTREAM INLET (C.F.S)
1	APPALOOSA LN.	2	100	15	7.60	0.60	1.03	4.70	0.00	4.70	12.10	1.50	6"	10	ONGC	6.80	4.70	0.00
2	APPALOOSA LN.	1	100	15	7.60	0.60	0.69	3.15	8.64	11.79	12.10	1.50	6"	10	ONGC	6.80	11.79	4.99
3	TARPAN TRAIL	5	100	15	7.60	0.60	2.15	9.80	0.00	9.80	17.60	3.20	6"	10	ONGC	6.00	9.80	3.80
4	TARPAN TRAIL	7	100	15	7.60	0.60	1.97	8.98	0.00	8.98	17.60	3.20	6"	10	ONGC	6.00	8.98	2.98
5	SHIRE LN.	9	100	15	7.60	0.60	1.68	7.66	0.00	7.66	19.00	3.80	6"	10	ONGC	5.80	7.66	1.86
6	SHIRE LN.	8	100	15	7.60	0.60	0.45	2.05	2.72	4.77	19.00	3.80	6"	10	ONGC	5.80	4.77	0.00
7	PALOMINO LN.	4	100	15	7.60	0.60	0.68	3.10	0.00	3.10	15.00	2.20	6"	10	ONGC	6.40	3.10	0.00
8	PALOMINO LN.	3	100	15	7.60	0.60	0.84	3.83	2.88	6.71	15.00	2.20	6"	10	ONGC	6.40	6.71	0.31
9	PALOMINO LN.	6	100	15	7.60	0.60	1.86	8.48	0.00	8.48	20.50	4.40	6"	10	ONGC	5.60	8.48	2.88
10	PALOMINO LN.	10	100	15	7.60	0.60	0.72	3.28	5.04	8.32	20.50	4.40	6"	10	ONGC	5.60	8.32	2.72
11	PALOMINO LN.	11	100	15	7.60	0.60	1.33	6.06	0.00	6.06	9.90	1.00	6"	10	ONGC	7.20	6.06	0.00
12	BRETON LN.	12	100	15	7.60	0.60	1.99	9.07	2.47	11.54	14.00	2.00	6"	10	ONGC	6.50	11.54	5.04
13	TARPAN TRAIL	13	100	15	7.60	0.60	2.01	9.17	0.00	9.17	13.20	1.80	6"	10	ONGC	6.70	9.17	2.47
14	ALAMINO LN.	14	100	15	7.60	0.60	2.20	10.03	0.00	10.03	7.60	0.60	6"	10	ONGC	7.50	10.03	2.53
15	CARTER RANCH RD.	21	100	10	8.76	0.80	0.99	6.94	3.14	10.08	13.20	1.80	1/4":FT	10	ONGC	6.70	10.08	3.36
16	CARTER RANCH RD.	24	100	10	8.76	0.94	0.73	6.01	0.00	6.01	7.60	0.60	1/4":FT	10	ONGC	7.50	6.01	0.00
17	CARTER RANCH RD.	20	100	10	8.76	0.70	0.93	5.70	2.94	8.64	21.30	4.60	1/4":FT	10	ONGC	5.50	8.64	3.14
18	CARTER RANCH RD.	26	100	10	8.76	0.94	0.67	5.52	0.00	5.52	15.30	2.40	1/4":FT	10	ONGC	6.30	5.52	0.00
19	CARTER RANCH RD.	19	100	10	8.76	0.66	1.42	8.21	0.00	8.21	15.30	2.40	1/4":FT	10	ONGC	6.30	8.21	1.91
20	BRETON LN	18	100	15	7.60	0.60	1.83	8.34	0.00	8.34	22.10	5.00	6"	10	ONGC	5.40	8.34	2.94
21	CARTER RANCH RD.	17	100	15	7.60	0.60	0.38	1.73	0.00	1.73	15.30	2.40	6"	10	ONGC	6.30	1.73	0.00
		33	100	10	8.76	0.66	1.23	7.11	0.00	7.11	15.30	2.40	1/4":FT	10	ONGC	6.30	7.11	0.81
22	CARTER RANCH RD.	34	100	10	8.76	0.76	0.97	6.46	0.00	6.46	20.50	4.40	1/4":FT	10	ONGC	5.60	6.46	0.86
23	CARTER RANCH RD.	37	100	10	8.76	0.74	1.16	7.52	0.00	7.52	20.50	4.40	1/4":FT	10	ONGC	5.60	7.52	1.92
24	CONNEMARA TRAIL	16	100	15	7.60	0.60	1.69	7.71	0.00	7.71	17.20	3.00	6"	10	SMPC	21.00	7.71	0.00
25	CONNEMARA TRAIL	15	100	15	7.60	0.60	1.66	7.57	0.00	7.57	18.80	3.60	6"	10	SMPC	21.00	7.57	0.00
26	DARTMOOR DR.	28	100	15	7.60	0.60	0.77	3.51	0.00	3.51	9.90	1.00	6"	10	SMPC	21.00	3.51	0.00
		32	100	15	7.60	0.60	1.34	6.11	0.00	6.11	17.80	3.28	6"	10	SMPC	21.00	6.11	0.00
27	DARTMOOR DR.	29	100	15	7.60	0.60	1.64	7.48	0.00	7.48	9.90	1.00	6"	10	SMPC	21.00	7.48	0.00
		30	100	15	7.60	0.60	1.55	7.07	3.84	10.91	17.80	3.28	6"	10	SMPC	21.00	10.91	0.00
28	QUARTER HORSE LN.	31	100	15	7.60	0.60	1.16	5.29	0.00	5.29	16.50	2.80	6"	10	ONGC	6.30	5.29	0.00
29	DARTMOOR DR.	36	100	15	7.60	0.60	1.39	6.34	3.50	9.84	17.80	3.28	6"	10	ONGC	6.00	9.84	3.84
30	DARTMOOR DR.	35	100	15	7.60	0.60	1.48	6.75	0.00	6.75	19.00	3.80	6"	10	ONGC	5.80	6.75	0.95
31	DARTMOOR DR.	38	100	15	7.60	0.60	2.04	9.30	0.00	9.30	19.00	3.80	6"	10	ONGC	5.80	9.30	3.50
32	CARTER RANCH RD.	61	100	10	8.76	0.69	0.76	4.59	0.00	4.59	13.20	1.80	1/4":FT	10	ONGC	6.70	4.59	0.00
33	CARTER RANCH RD.	62	100	10	8.76	0.69	0.91	5.50	0.00	5.50	13.20	1.80	1/4":FT	10	ONGC	6.70	5.50	0.00
34	DARTMOOR DR.	60	100	15	7.60	0.60	0.66	3.01	0.00	3.01	14.00	2.00	6"	10	ONGC	6.50	3.01	0.00
35	MUSTANG TRAIL	56	100	15	7.60	0.60	0.84	3.83	0.00	3.83	11.50	1.32	6"	10	ONGC	7.00	3.83	0.00
36	PALOMINO LN.	57	100	15	7.60	0.60	1.89	8.62	0.00	8.62	11.00	1.20	6"	10	ONGC	7.10	8.62	1.52
37	SADDLEBRED TRAIL	45	100	15	7.60	0.60	1.61	7.34	0.00	7.34	9.90	1.00	6"	10	ONGC	7.20	7.34	0.14
38	SADDLEBRED TRAIL	46	100	15	7.60	0.60	0.76	3.47	0.00	3.47	9.90	1.00	6"	10	ONGC	7.20	3.47	0.00
39	SADDLEBRED TRAIL	47	100	15	7.60	0.60	1.44	6.57	0.00	6.57	9.90	1.00	6"	10	ONGC	7.20	6.57	0.00
40	SADDLEBRED TRAIL	55	100	15	7.60	0.60	0.58	2.64	0.00	2.64	7.70	0.53	6"	10	ONGC	7.80	2.64	0.00
41	SADDLEBRED TRAIL	53	100	15	7.60	0.60	1.89	8.62	0.00	8.62	7.70	0.53	6"	10	ONGC	7.80	8.62	0.82
42	MUSTANG TRAIL	52	100	15	7.60	0.60	1.99	9.07	10.85	19.92	22.10	5.00	6"	10	SMPC	21.00	19.92	0.00
43	MUSTANG TRAIL	48	100	15	7.60	0.60	1.76	8.03	0.00	8.03	17.20	3.00	6"	10	ONGC	6.20	8.03	1.83
44	MUSTANG TRAIL	51	100	15	7.60	0.60	1.54	7.02	0.00	7.02	17.20	3.00	6"	10	ONGC	6.20	7.02	0.82
45	QUARTER HORSE LN.	44	100	15	7.60	0.60	1.44	6.57	0.00	6.57	14.00	2.00	6"	10	ONGC	6.50	6.57	0.07
46	QUARTER HORSE LN.	43	100	15	7.60	0.60	1.76	8.03	0.00	8.03	14.00	2.00	6"	10	ONGC	6.50	8.03	1.53
47	ARABIAN LN.	42	100	15	7.60	0.60	1.19	5.43	0.00	5.43	18.00	3.40	6"	10	ONGC	5.90	5.43	0.00
48	ARABIAN LN.	41	100	15	7.60	0.60	1.13	5.15	0.00	5.15	18.00	3.40	6"	10	ONGC	5.90	5.15	0.00
49	MUSTANG TRAIL	50	100	15	7.60	0.60	1.88	8.57	0.00	8.57	17.20	3.00	6"	10	ONGC	6.20	8.57	2.37
50	MUSTANG TRAIL	49	100	15	7.60	0.60	1.70	7.75	0.00	7.75	22.80	5.20	6"	10	ONGC	5.30	7.75	2.45
51	BLK 'M' LOT 32	40	100	15	7.60	0.60	0.29	1.32	0.00	1.32	N/A	N/A	N/A	2'X2'	SMPC	10.00	1.32	0.00
52	BLK 'M' LOT 33	39	100	15	7.60	0.60	0.31	1.41	0.00	1.41	N/A	N/A	N/A	2'X2'	SMPC	10.00	1.41	0.00
53	SADDLEBRED TRAIL	54	100	15	7.60	0.60	10.48	47.79	0.00	47.79	N/A	N/A	N/A	4'X4'	SMPC	50.00	47.79	0.00

DRAINAGE AREA		AREA	RUNOFF			
MAJOR AREA	MINOR AREA	(acre)	C	TIME OF CONCENTRATION	I (in/hr)	Q inlet (cfs)
A	1	0.69	0.60	15	7.60	3.15
	2	1.03	0.60	15	7.60	4.70
	3	0.84	0.60	15	7.60	3.83
	4	0.68	0.60	15	7.60	3.10
	5	2.15	0.60	15	7.60	9.80
	6	1.86	0.60	15	7.60	8.48
	7	1.97	0.60	15	7.60	8.98
	8	0.45	0.60	15	7.60	2.05
	9	1.68	0.60	15	7.60	7.66
B	10	0.72	0.60	15	7.60	3.28
	11	1.33	0.60	15	7.60	6.06
	12	1.99	0.60	15	7.60	9.07
	13	2.01	0.60	15	7.60	9.17
C	14	2.20	0.60	15	7.60	10.03
D	15	1.66	0.60	15	7.60	7.57
E	16	1.69	0.60	15	7.60	7.71
	17	0.38	0.60	15	7.60	1.73
	18	1.83	0.60	15	7.60	8.34
	19	1.42	0.66	10	8.76	8.21
	20	0.93	0.70	10	8.76	5.70
	21	0.99	0.80	10	8.76	6.94
	22	0.16	0.94	10	8.76	1.32
	23	2.32	0.90	10	8.76	18.29
	24	0.73	0.94	10	8.76	6.01
	25	3.23	0.60	15	7.60	14.73
	26	0.67	0.94	10	8.76	5.52
	27	2.18	0.60	15	7.60	9.94
	28	0.77	0.60	15	7.60	3.51
	29	1.64	0.60	15	7.60	7.48
	30	1.55	0.60	15	7.60	7.07
	31	1.16	0.60	15	7.60	5.29
	32	1.34	0.60	15	7.60	6.11
	33	1.23	0.66	10	8.76	7.11
	34	0.97	0.76	10	8.76	6.46
	35	1.48	0.60	15	7.60	6.75
E	36	1.39	0.60	15	7.60	6.34
	37	1.16	0.74	10	8.76	7.52
	38	2.04	0.60	15	7.60	9.30
F	39	0.31	0.60	15	7.60	1.41
	40	0.29	0.60	15	7.60	1.32
	41	1.13	0.60	15	7.60	5.15
	42	1.19	0.60	15	7.60	5.43
	43	1.76	0.60	15	7.60	8.03
	44	1.44	0.60	15	7.60	6.57
	45	1.61	0.60	15	7.60	7.34
	46	0.76	0.60	15	7.60	3.47
	47	1.44	0.60	15	7.60	6.57
	48	1.00	0.60	15	7.60	4.56
	49	1.70	0.60	15	7.60	7.75
	50	1.88	0.60	15	7.60	8.57
	51	1.54	0.60	15	7.60	7.02
	52	1.99	0.60	15	7.60	9.07
	53	1.89	0.60	15	7.60	8.62
	54	10.48	0.60	15	7.60	47.79
	55	0.58	0.60	15	7.60	2.64
G	56	0.84	0.60	15	7.60	3.83
	57	1.89	0.60	15	7.60	8.62
	58	0.67	0.60	15	7.60	3.06
	59	2.49	0.60	15	7.60	11.35
H	60	0.66	0.60	15	7.60	3.01
I	61	0.76	0.69	10	8.76	4.59
	62	0.91	0.69	10	8.76	5.50
	63	0.25	0.60	15	7.60	1.14
	64	1.27	0.60	15	7.60	5.79
	65	3.65	0.60	15	7.60	16.64
	66	0.67	0.60	15	7.60	3.06
	67	1.28	0.60	15	7.60	5.84
	68	1.07	0.60	15	7.60	4.88
	69	0.52	0.94	10	8.76	4.28
	70	0.31	0.68	10	8.76	1.85
	71	0.39	0.60	15	7.60	1.78
	72	3.67	0.60	15	7.60	16.74

RECORD DRAWING

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STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

DRAINAGE CALCULATION

CENTURION AMERICAN DEVELOPMENT GROUP

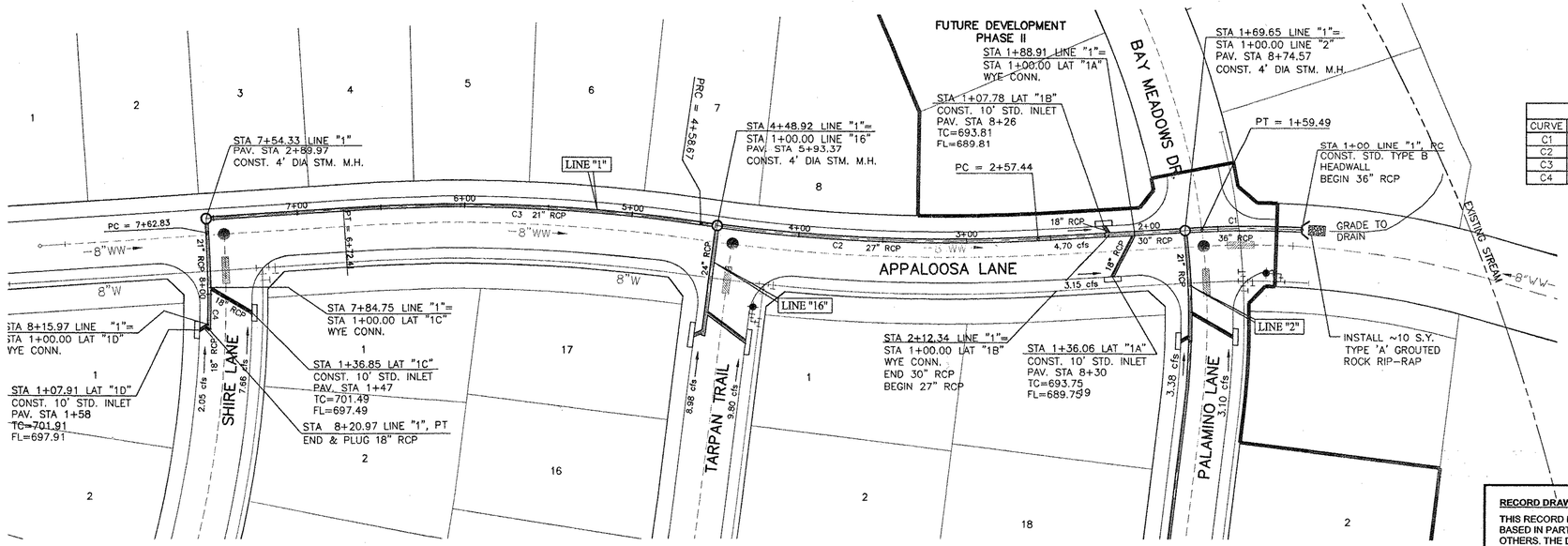
CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003			0131222201	35A

01312222\LDD\CARTER RANCH - PHASE I\DWG\312222DA02A.DWG



CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD BEARING	CHORD LENGTH	DELTA
C1	59.49'	510.00'	29.78'	S21°51'34"W	59.45'	6°40'59"
C2	201.24'	990.00'	100.97'	N24°20'28"E	200.89'	11°38'47"
C3	213.73'	1010.00'	107.27'	S24°06'08"W	213.33'	12°07'29"
C4	56.14'	590.00'	28.09'	N69°22'51"W	56.12'	5°27'06"

RECORD DRAWING

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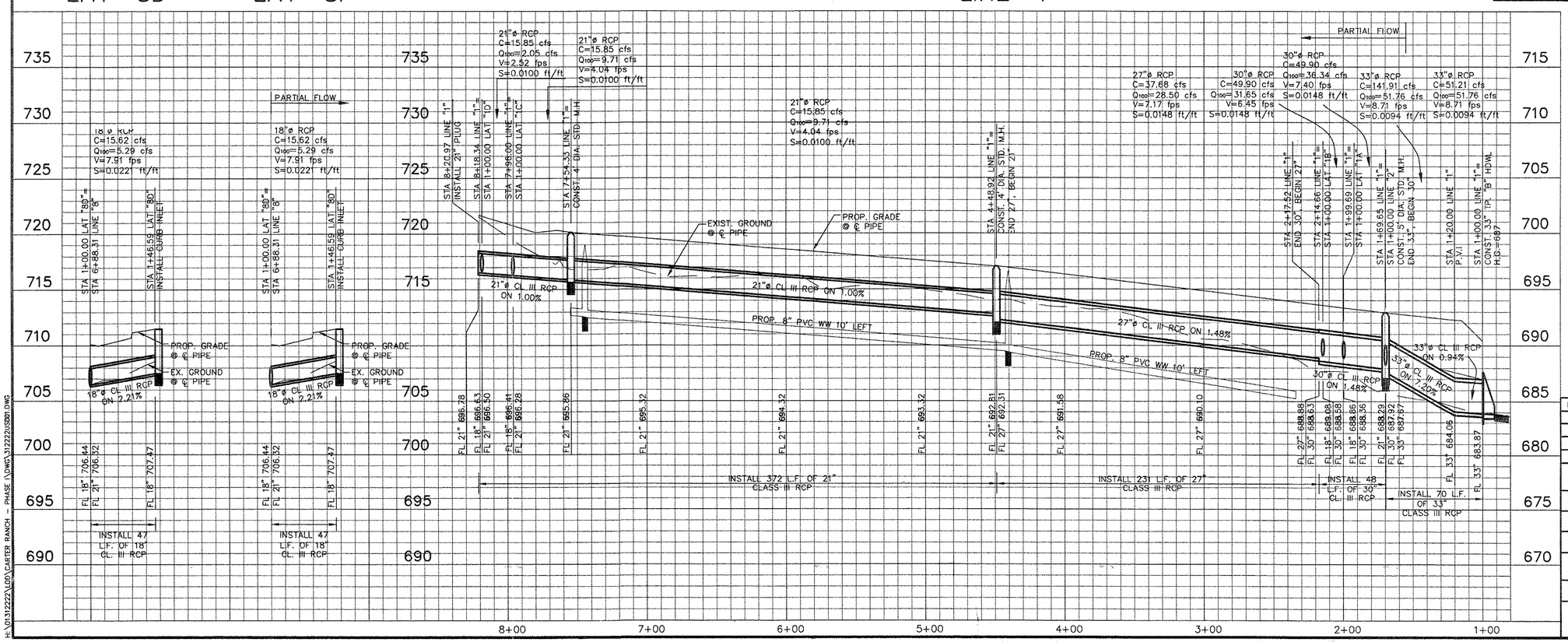
STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04



BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON RODWITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

STORM PLAN AND PROFILE–LINE 1

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

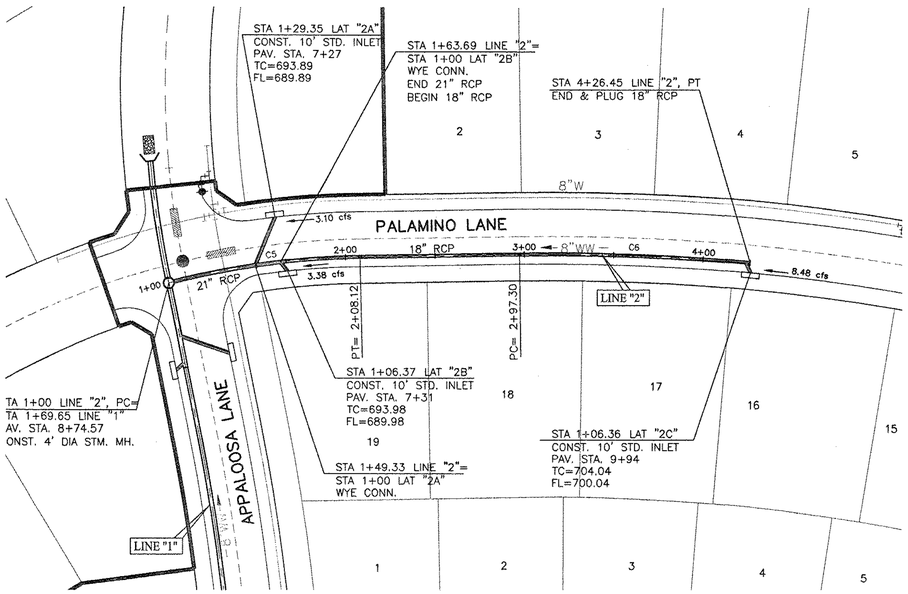
HUITT-ZOLLARS
Huitt-Zollars, Inc. Dallas
2121 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

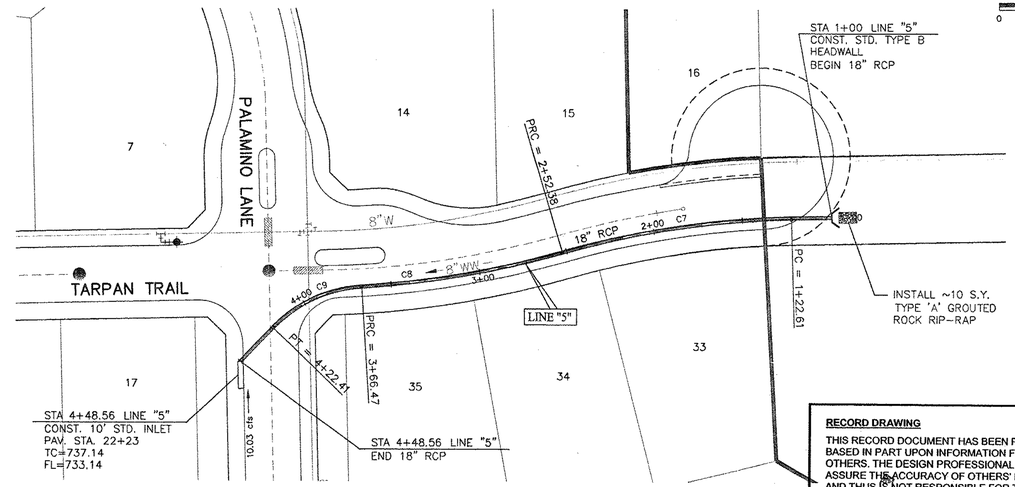
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	36

H:\01312222\LDD\CARTER RANCH – PHASE 1\DWG\312222USD01.DWG

P-200304-01

CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD BEARING	CHORD LENGTH	DELTA
C5	108.12'	440.00'	54.33'	N68°01'07"W	107.85'	14°04'46"
C6	129.15'	1170.00'	64.64'	N57°49'00"W	129.08'	6°19'28"
C7	129.77'	490.00'	65.27'	S81°17'48"W	129.39'	15°10'25"
C8	114.09'	510.00'	57.28'	N80°07'07"E	113.85'	12°49'03"
C9	55.94'	75.00'	29.34'	S65°09'34"W	54.65'	42°44'10"



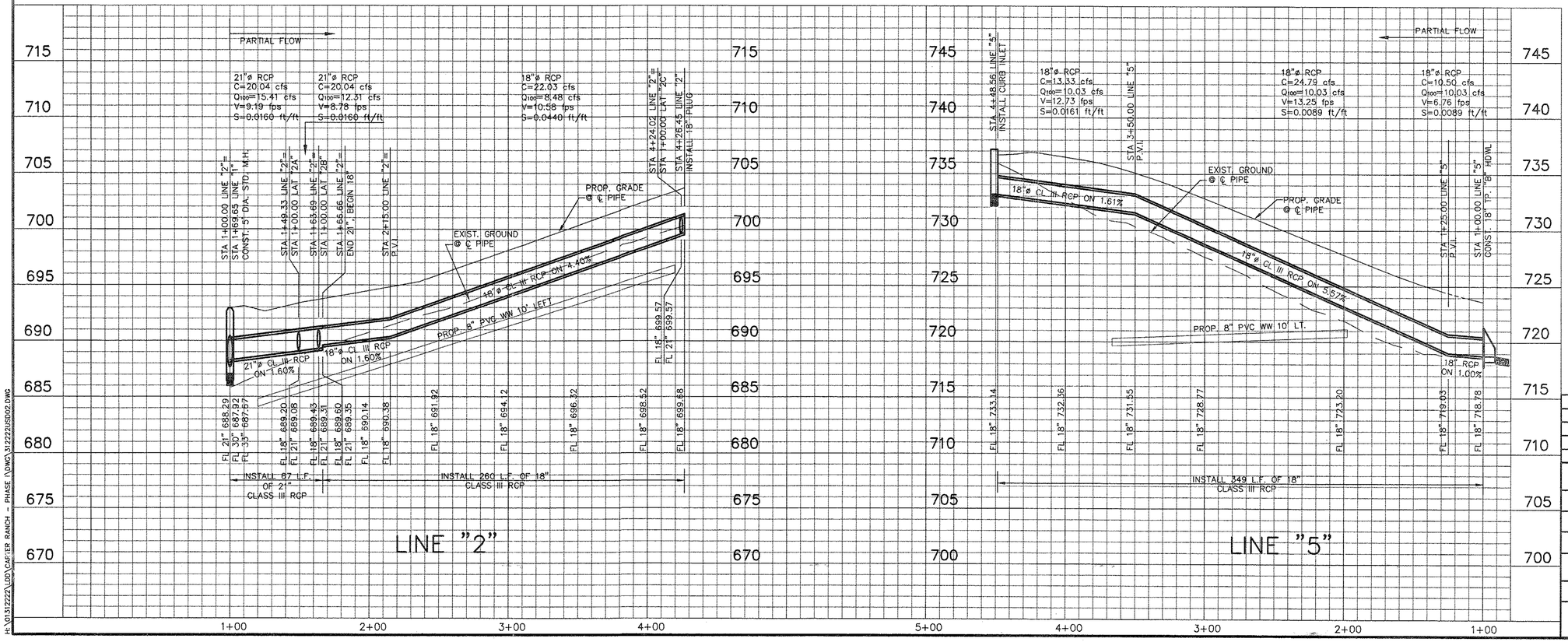


RECORD DRAWING

THIS RECORD DOCUMENT HAS BEEN PREPARED BASED IN PART UPON INFORMATION FURNISHED BY OTHERS. THE DESIGN PROFESSIONAL CANNOT ASSURE THE ACCURACY OF OTHERS' INFORMATION AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DOCUMENT OR FOR ANY ERROR OR OMISSION THAT MAY HAVE BEEN INCORPORATED INTO IT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04



BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON RODWITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

STORM PLAN AND PROFILE–LINES 2&5

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

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DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	37

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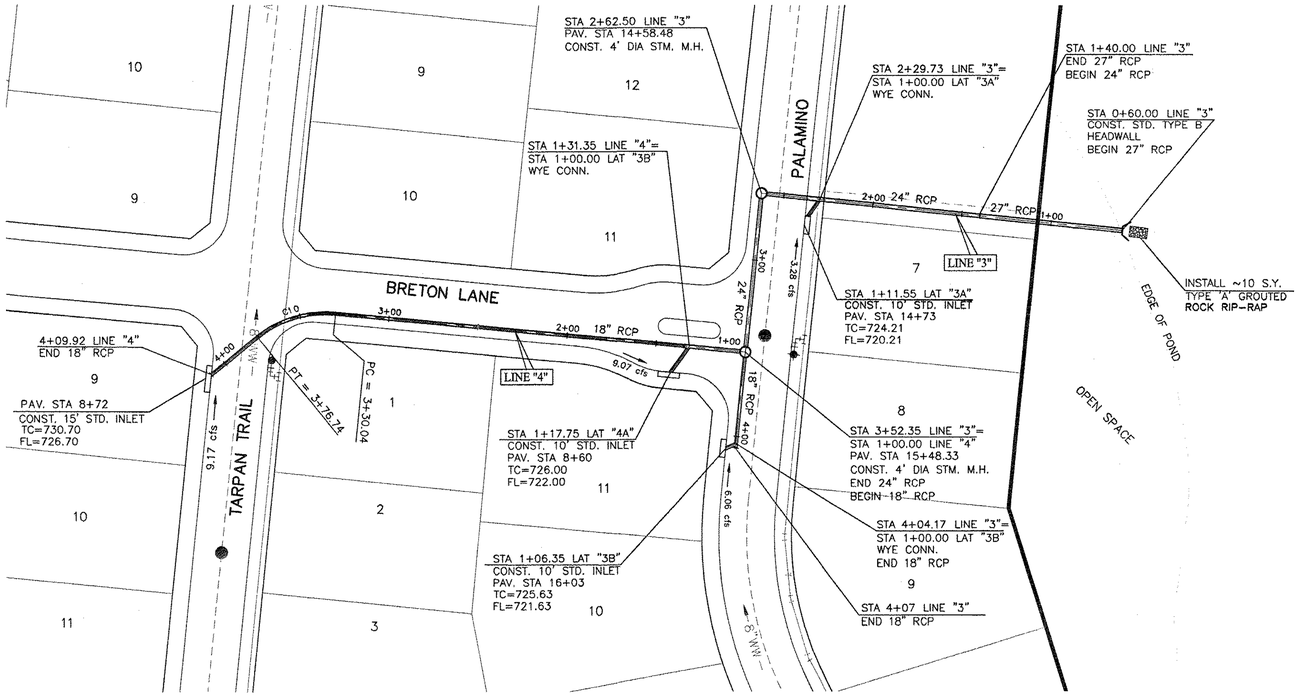
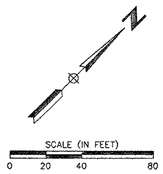
P-200304-01





CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD BEARING	CHORD LENGTH	DELTA
C10	46.70'	60.00'	24.60'	S28°07'16"W	45.53'	44°35'40"

RECORD DRAWING

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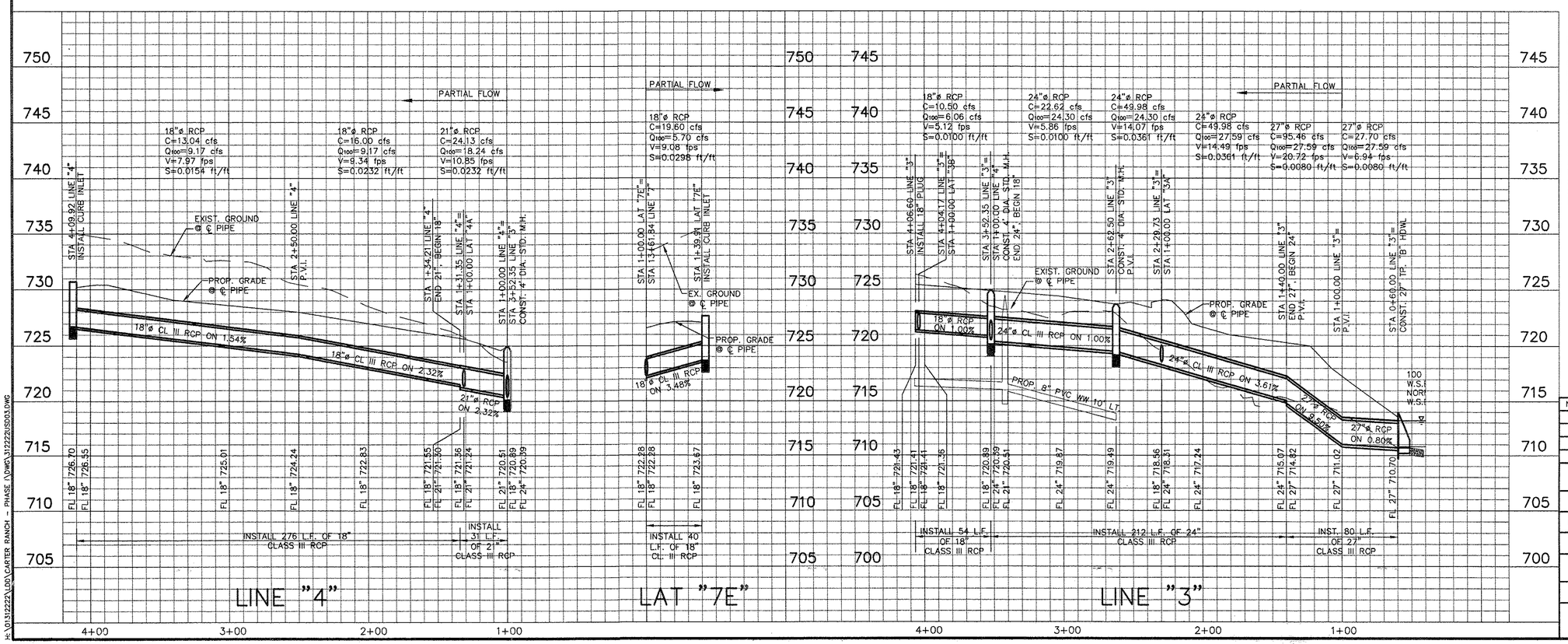
STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04



BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

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ELEVATION 681.76 FEET

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

STORM PLAN AND PROFILE–LINES 3&4

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

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DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
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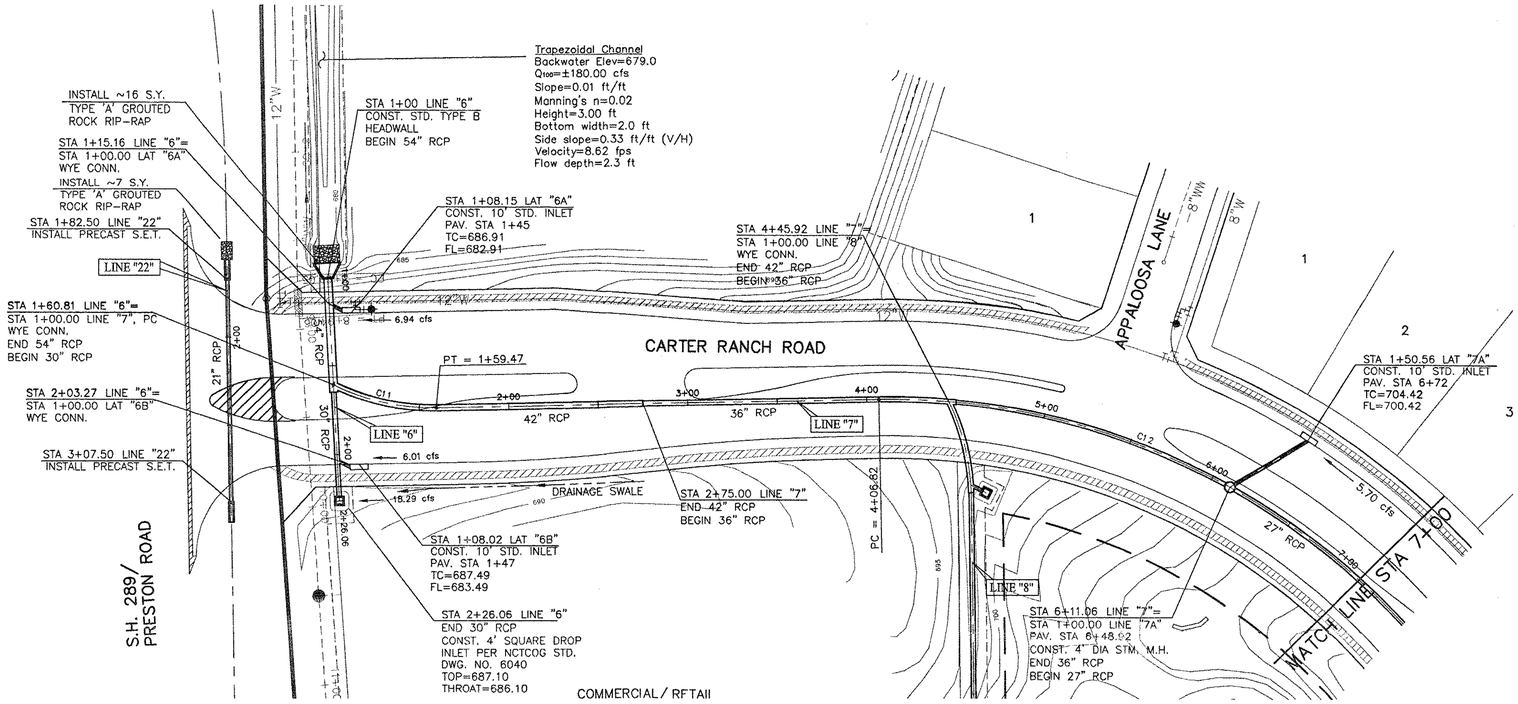

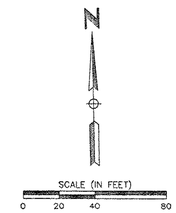

CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD BEARING	CHORD LENGTH	DELTA
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C12	409.02'	388.00'	225.82'	N60°54'01"W	390.34'	60°23'58"

RECORD DRAWING

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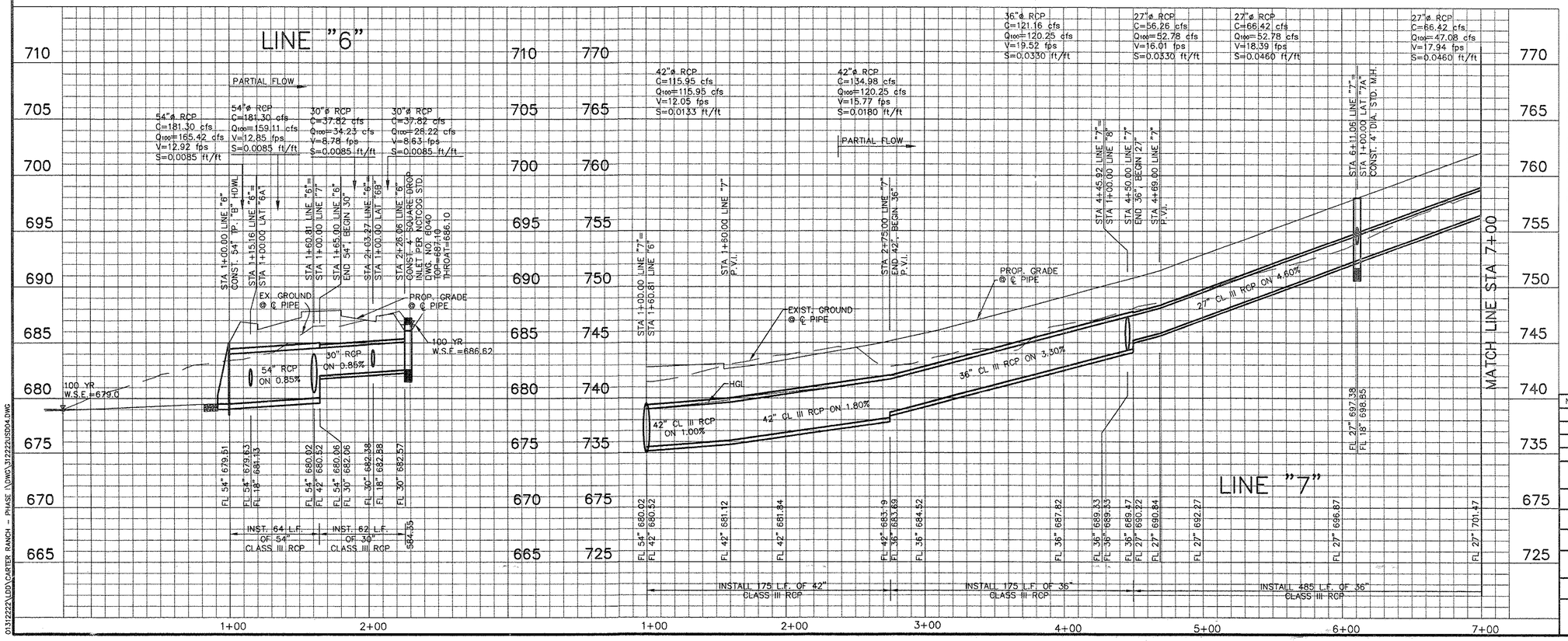
STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04



BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

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ELEVATION 681.76 FEET

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

STORM PLAN AND PROFILE–LINES 6&7

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS — Huitt-Zollars, Inc. 3131 McKinney Avenue, Suite 600 Dallas, Dallas, Texas 75204-2489 Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
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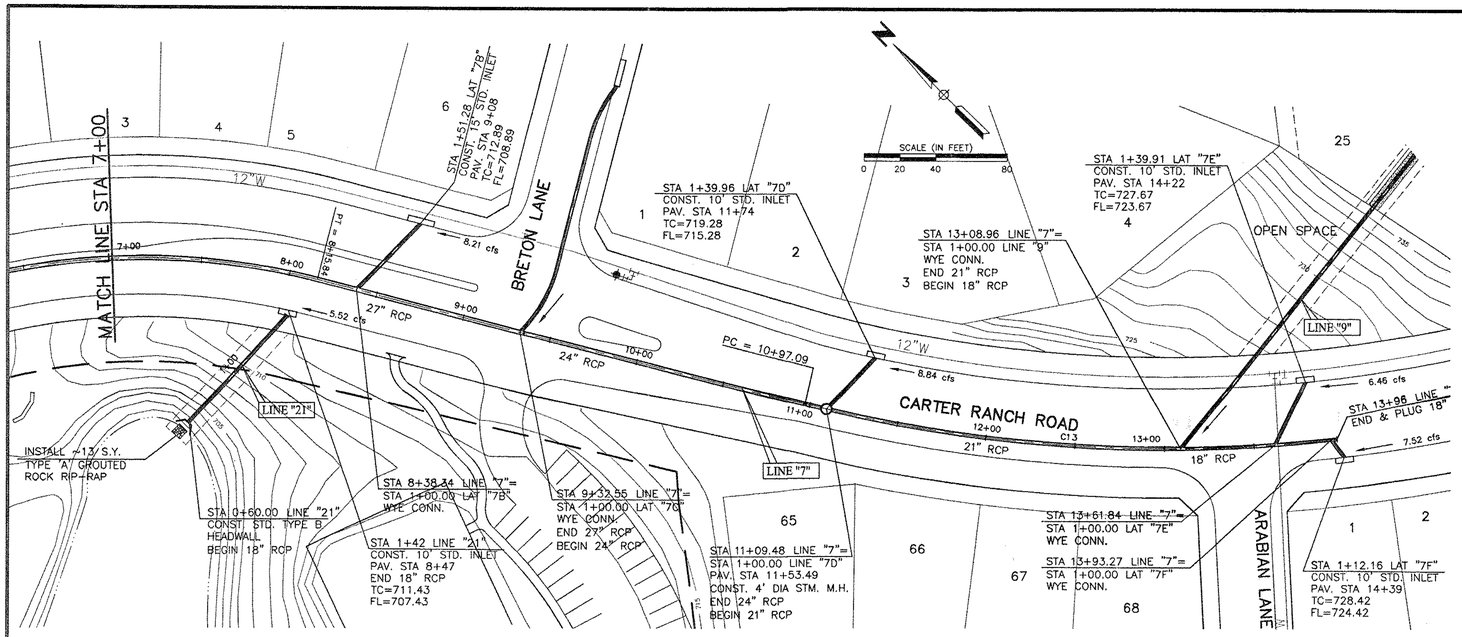

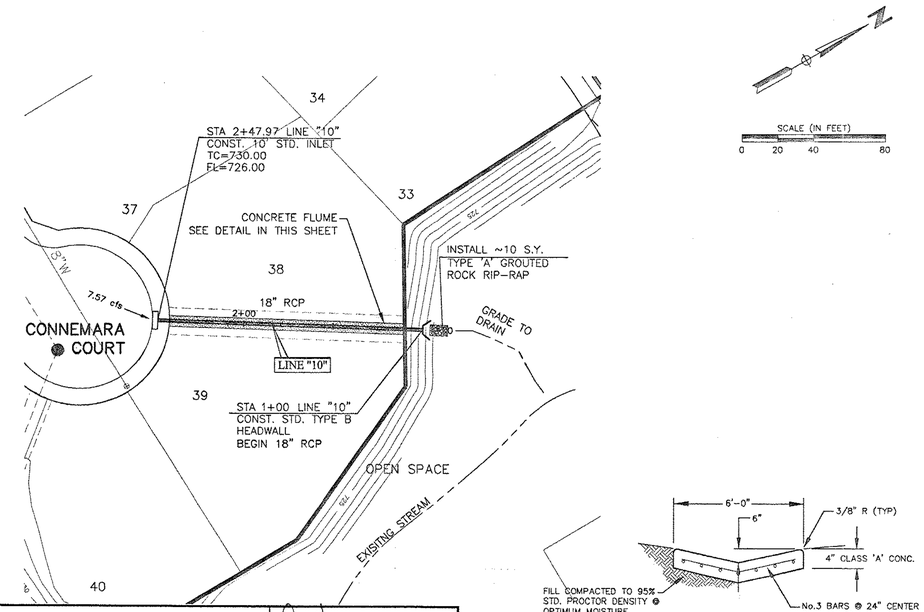

CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD BEARING	CHORD LENGTH	DELTA
C13	299.48'	812.00'	151.46'	S41°15'59"E	297.79'	21°07'55"

RECORD DRAWING

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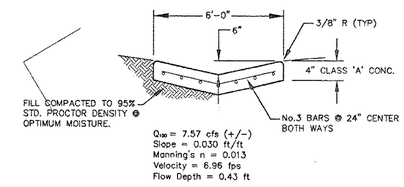
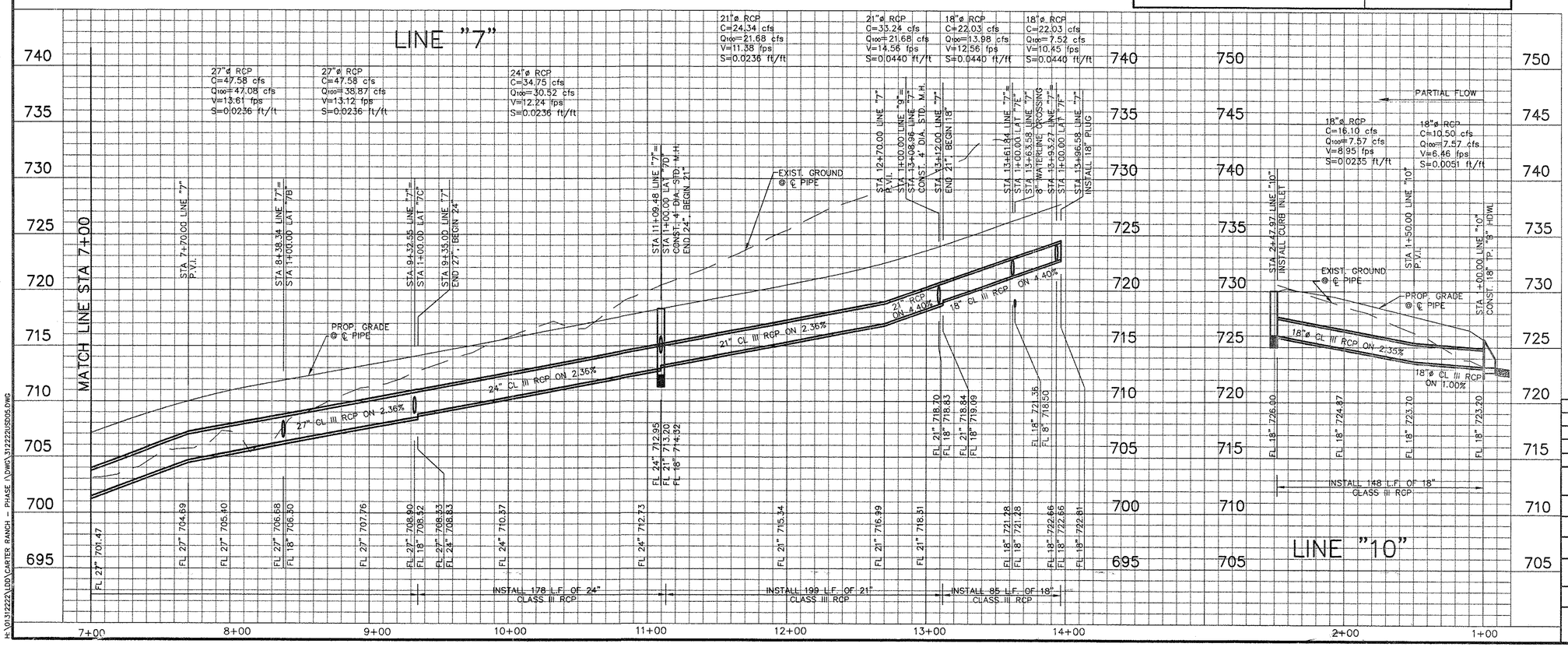
STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04



CONCRETE FLUME DETAIL



BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON RODWITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

STORM PLAN AND PROFILE–LINES 7&10

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
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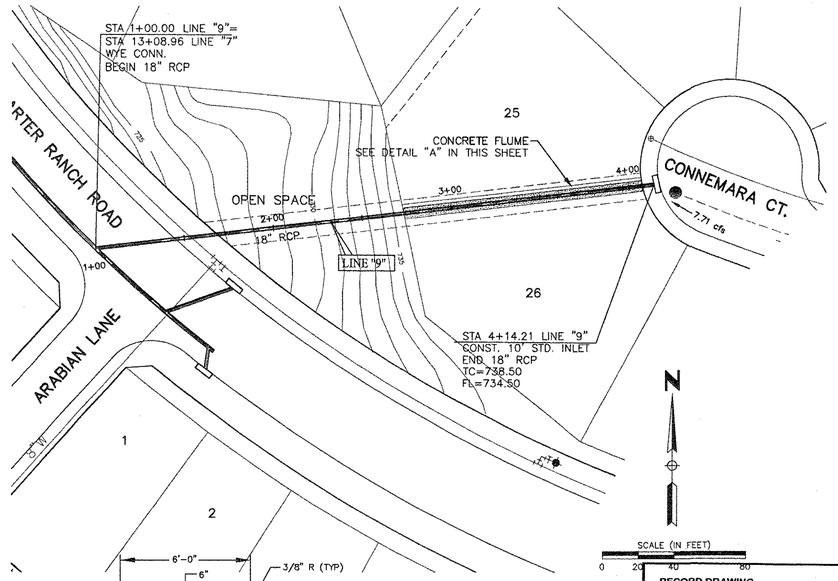

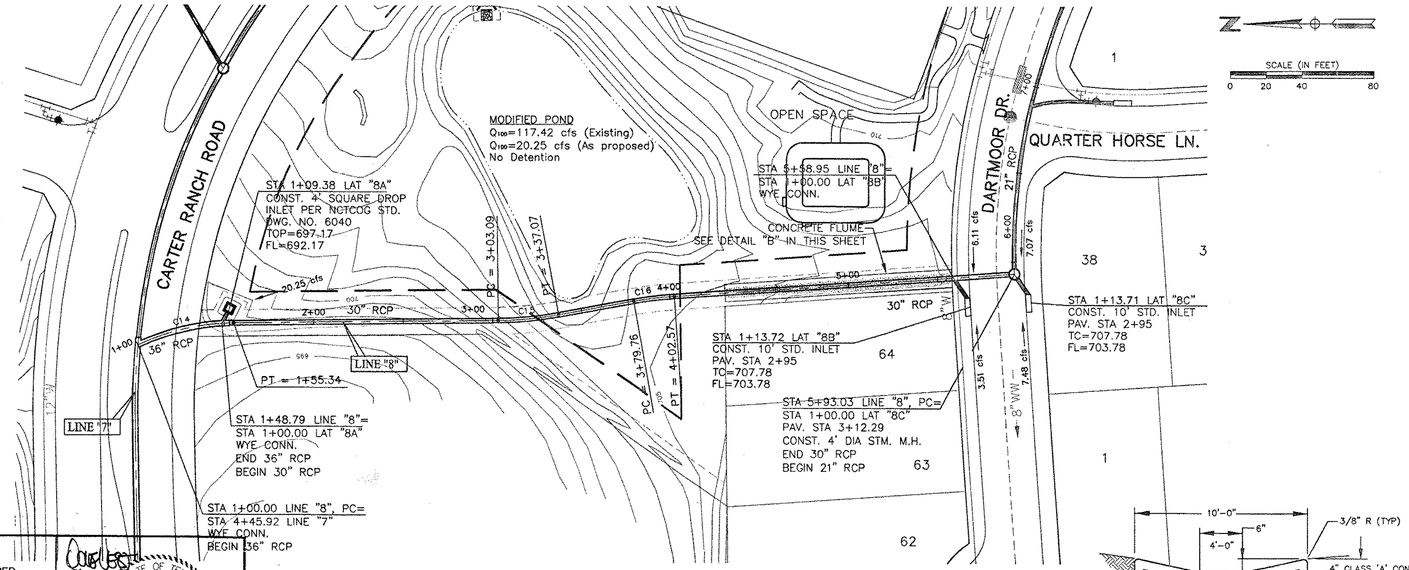

SCALE (IN FEET)
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RECORD DRAWING

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER

DATE: 8/3/04

CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD BEARING	CHORD LENGTH	DELTA
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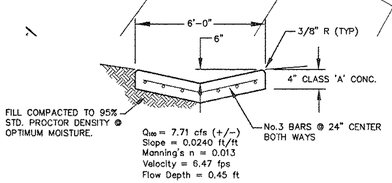
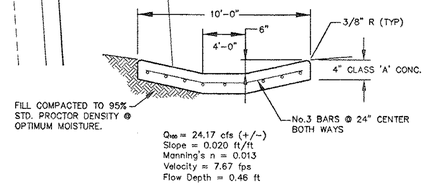
C15	33.98'	200.00'	17.03'	S05°38'04"E	33.94'	9°44'08"
C16	22.81'	200.00'	11.42'	N07°14'04"W	22.80'	6°32'07"



CONCRETE FLUME DETAIL 'A'



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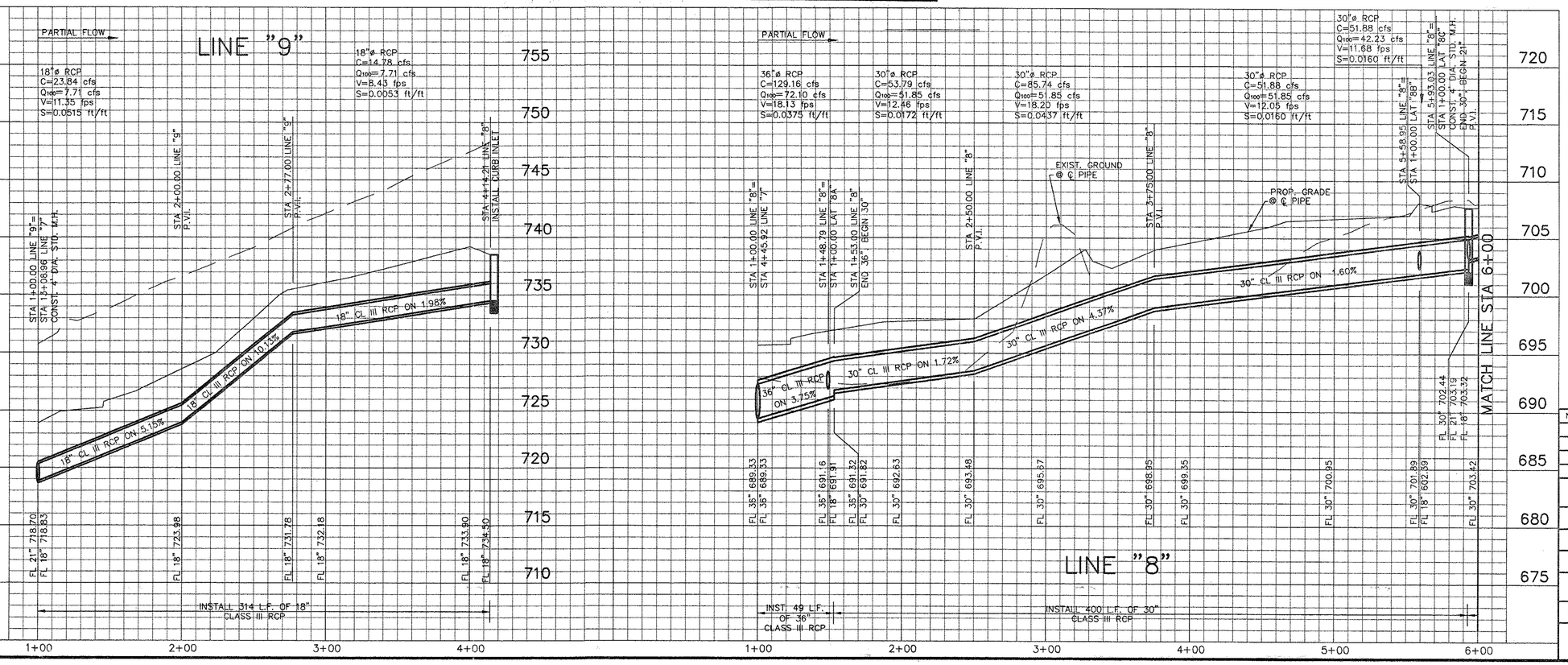

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON RODWITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER
4/9/05

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

STORM PLAN AND PROFILE–LINES 8&9

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

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Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
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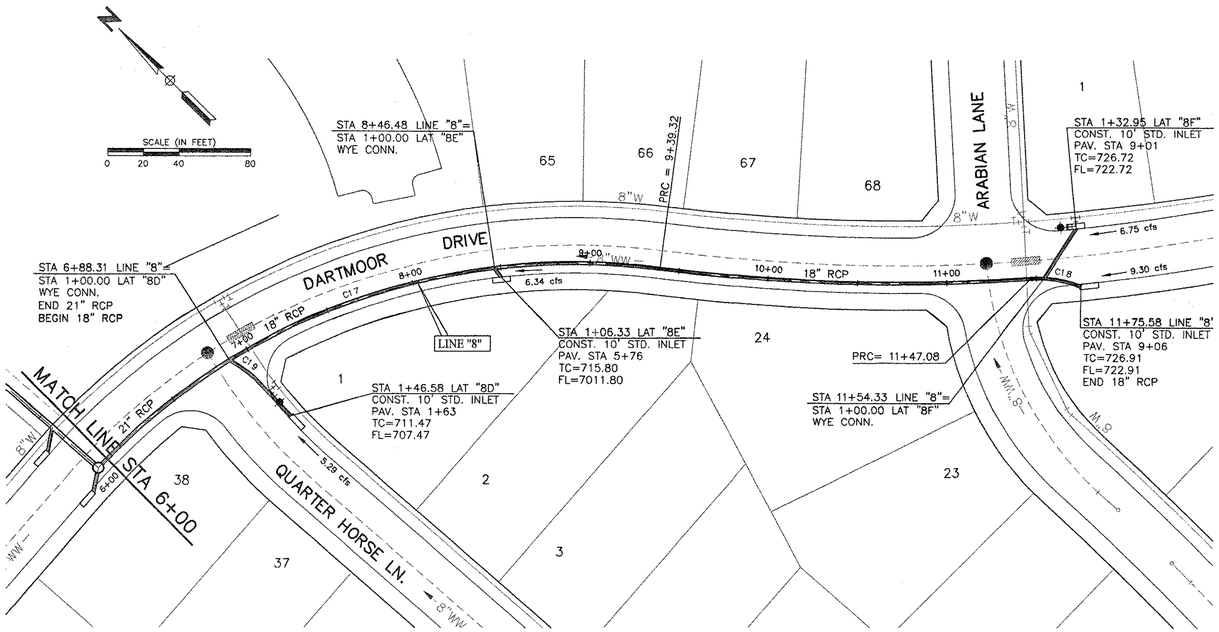

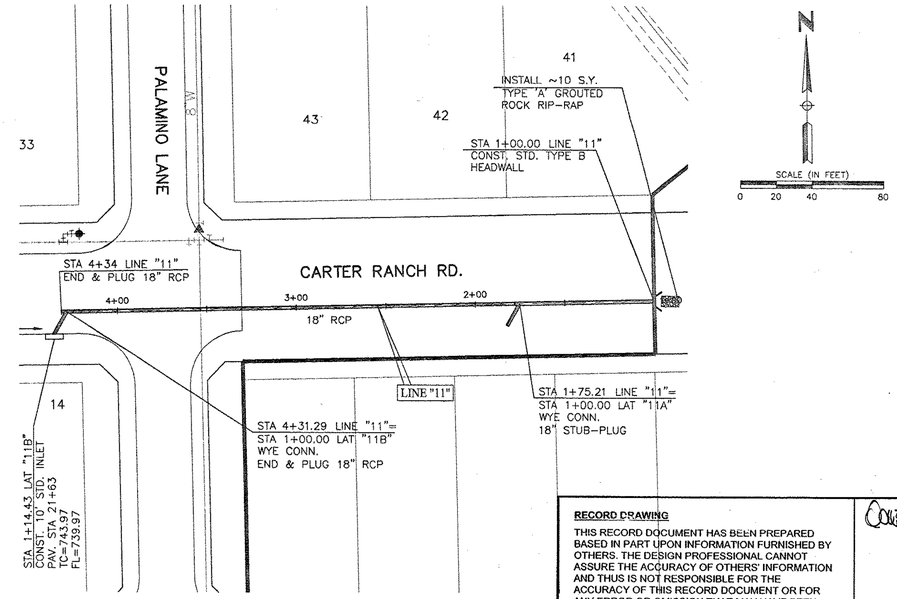

CURVE TABLE						
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C18	28.50'	60.00'	14.52'	N35°45'18"W	28.23'	27°12'43"
C19	21.57'	65.00'	10.88'	N07°53'38"W	21.47'	19°00'45"

RECORD DRAWING

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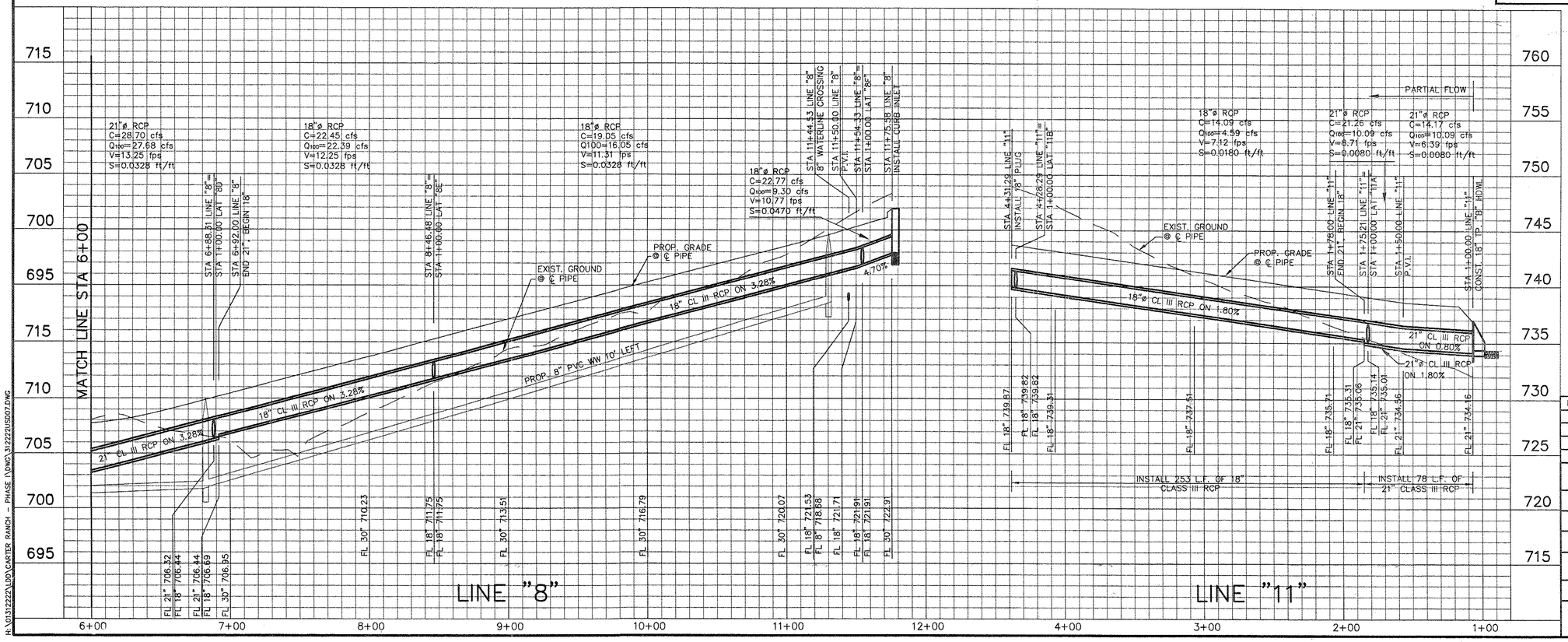
STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04



BENCHMARKS:

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ELEVATION 681.67 FEET

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ELEVATION 681.76 FEET

STATE OF TEXAS
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80062
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4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

STORM PLAN AND PROFILE–LINES 8&11

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS
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DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
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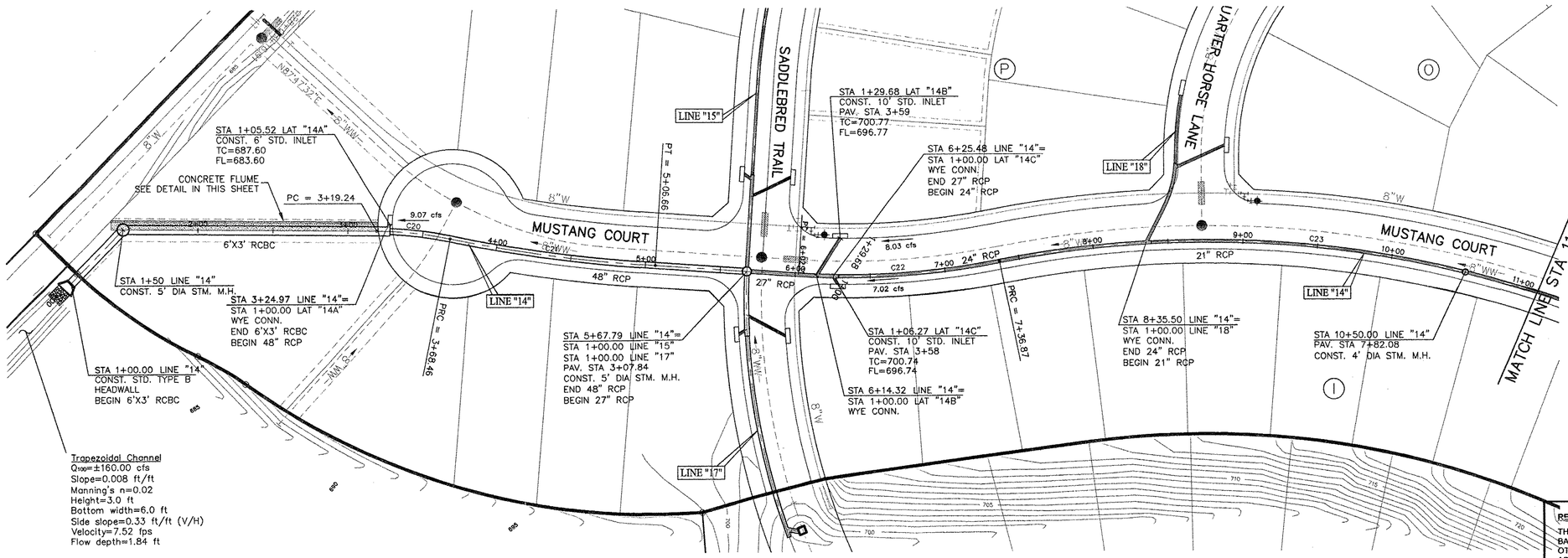

CURVE TABLE						
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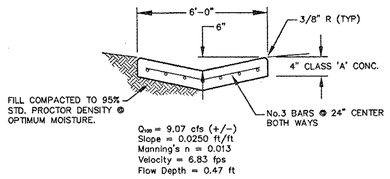
C21	138.20'	1010.00'	69.21'	N52°51'42"E	138.09'	7°50'23"
C22	134.75'	510.00'	67.77'	N41°22'21"E	134.36'	15°08'20"
C23	425.01'	706.00'	219.16'	S51°02'56"W	418.62'	34°29'30"



CONCRETE FLUME DETAIL

RECORD DRAWING

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STATE OF TEXAS
OCIE LEE VEST
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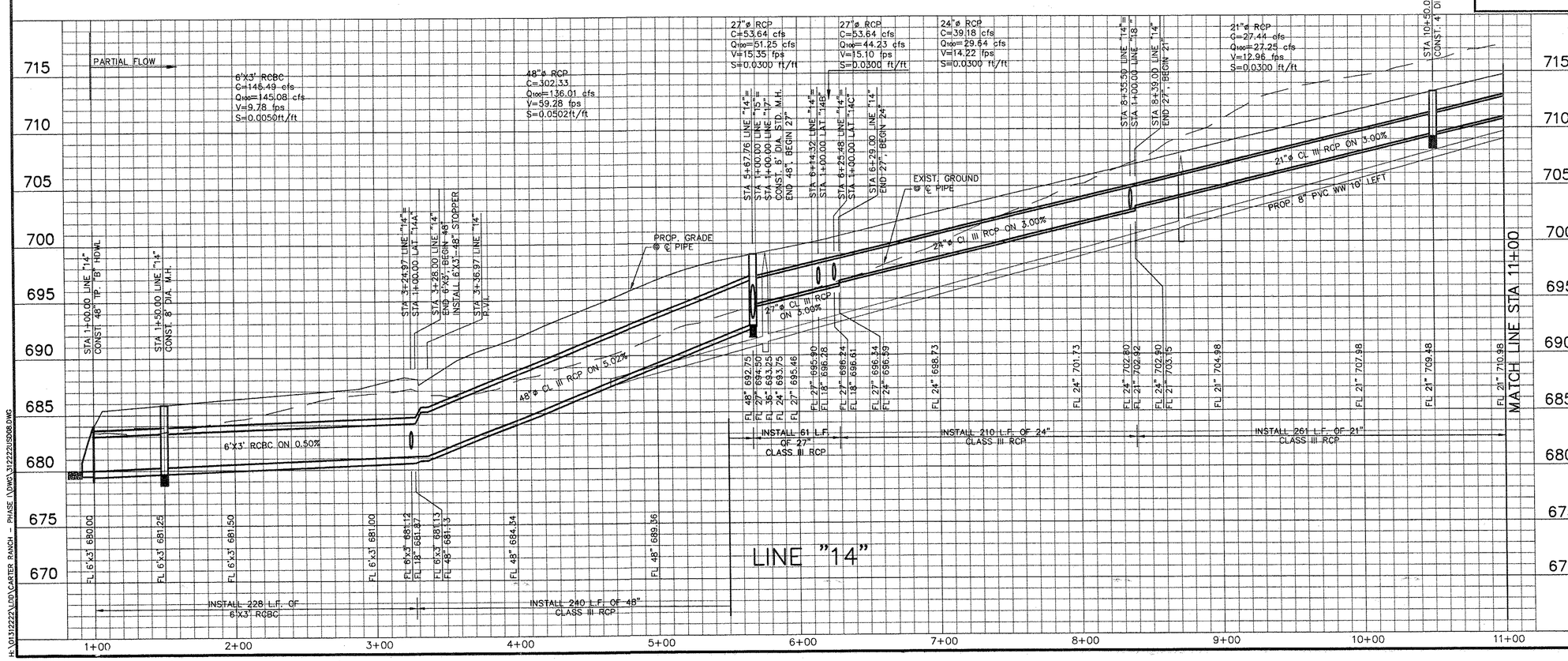
DATE: 2/3/04



BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON RODWITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

STORM PLAN AND PROFILE–LINE 14

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

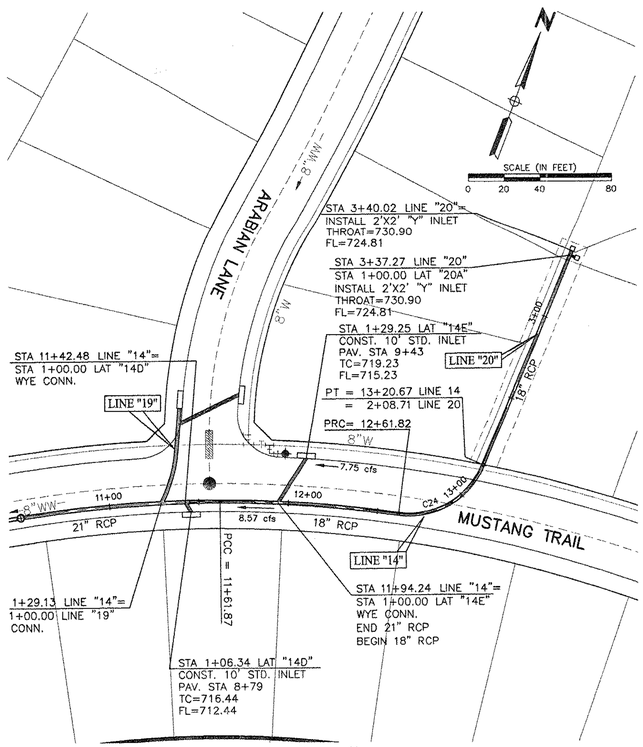
HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

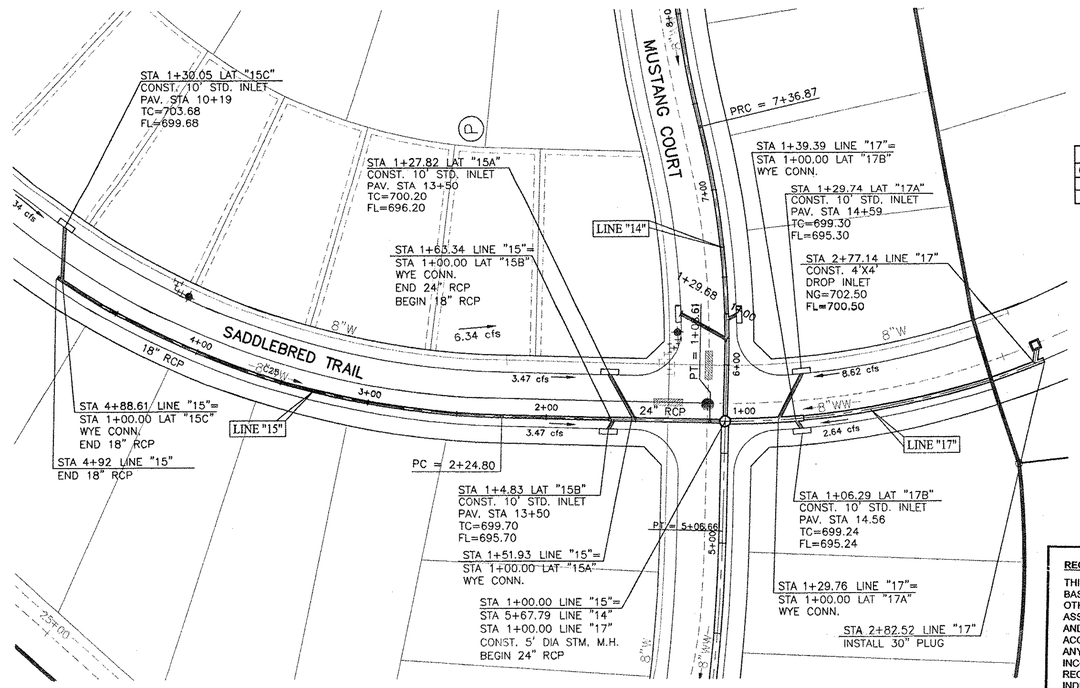
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	43

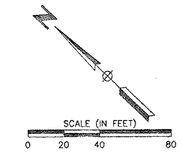
H:\01312222\LND\CARTER RANCH – PHASE I\DWG\312222US008.DWG

P-200304-01



LINE "14"





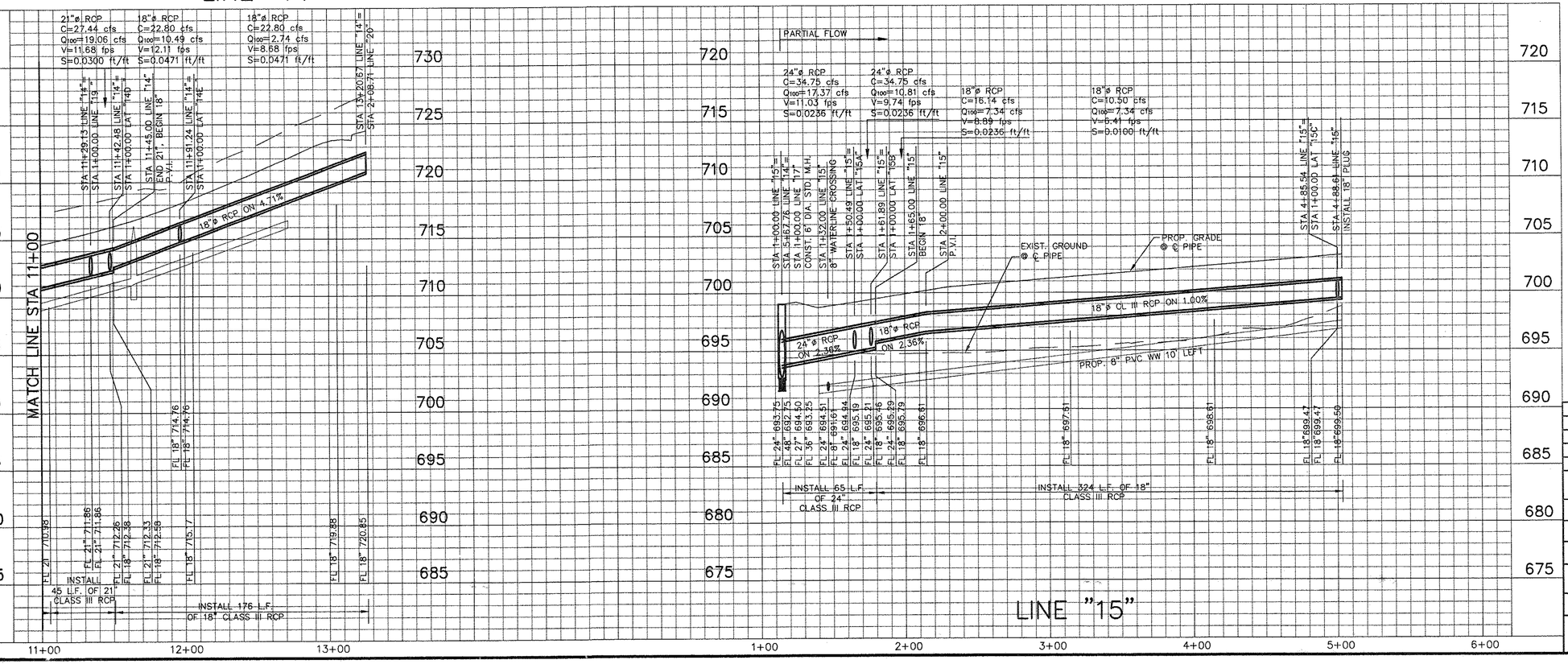
CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	CHORD BEARING	CHORD LENGTH	DELTA
C24	58.85'	44.50'	34.63'	N38°31'07"E	54.66'	75°46'29"
C25	263.81'	460.00'	135.64'	S24°48'08"E	260.20'	32°51'31"

RECORD DRAWING

THIS RECORD DOCUMENT HAS BEEN PREPARED BASED IN PART UPON INFORMATION FURNISHED BY OTHERS. THE DESIGN PROFESSIONAL CANNOT ASSURE THE ACCURACY OF OTHERS' INFORMATION AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DOCUMENT OR FOR ANY ERROR OR OMISSION THAT MAY HAVE BEEN INCORPORATED INTO IT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
DATE: 2/2/04



BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON RODWITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

STORM PLAN AND PROFILE–LINES 14&15

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

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3131 McKinney Avenue, Suite 600
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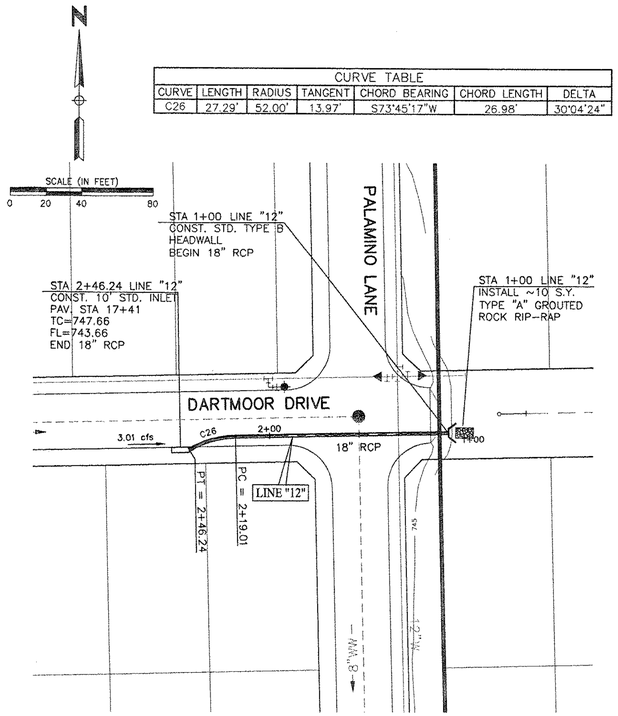
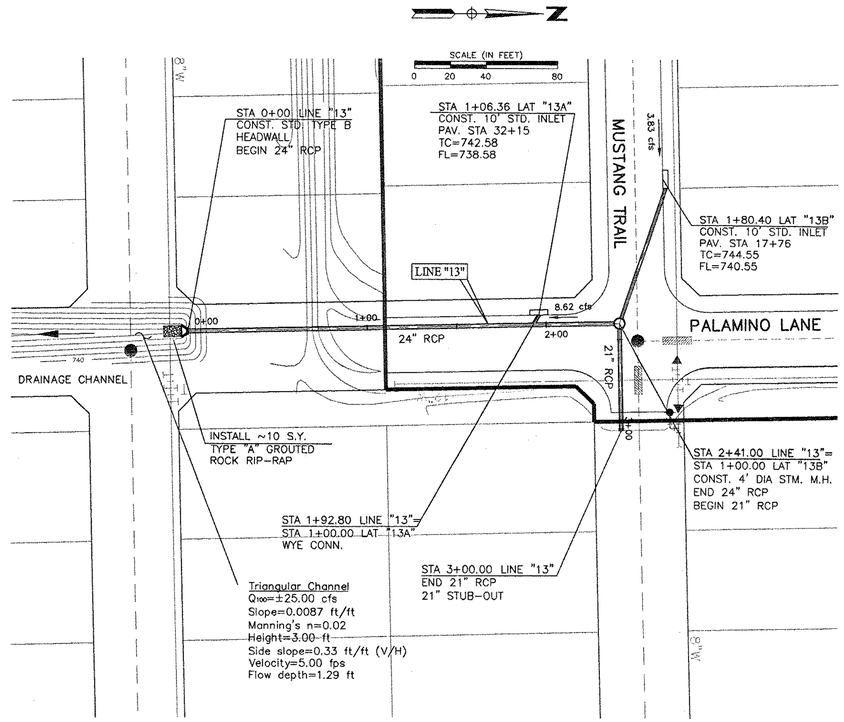
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	44

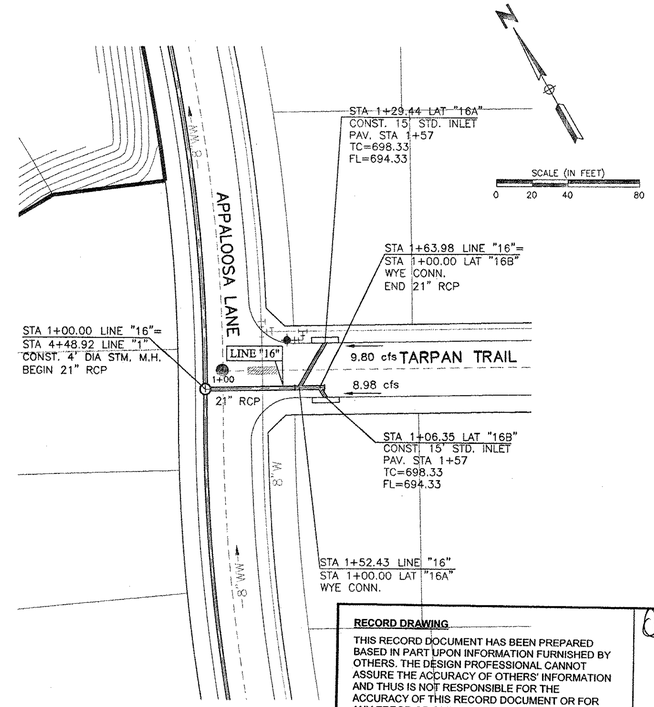
H:\01312222\LDD\CARTER RANCH - PHASE I\DWG\312222LSD09.DWG

P-200304-01

CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD BEARING	CHORD LENGTH	DELTA
C26	27.29'	52.00'	13.97'	S73°45'17"W	26.98'	30°04'24"







RECORD DRAWING

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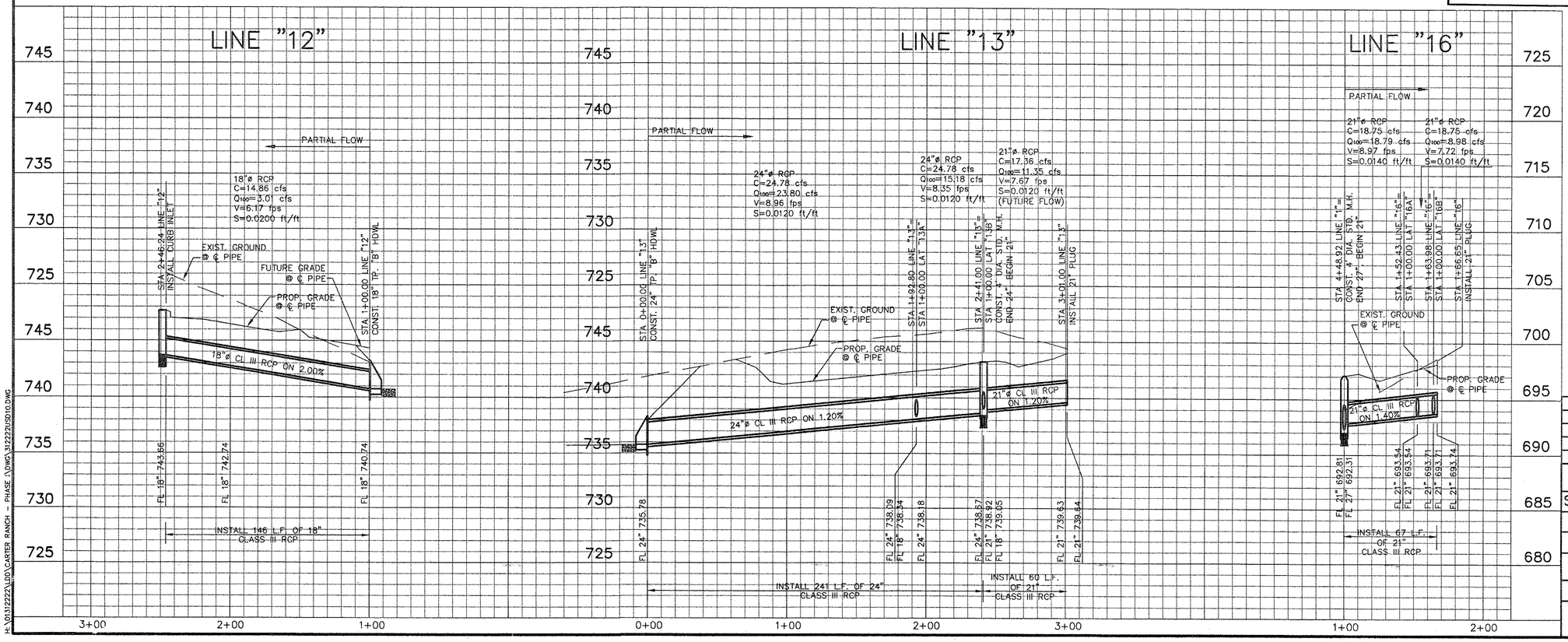
STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04



BENCHMARKS;

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON RODWITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

STORM PLAN AND PROFILE–LINES 12,13&16

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
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Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	45

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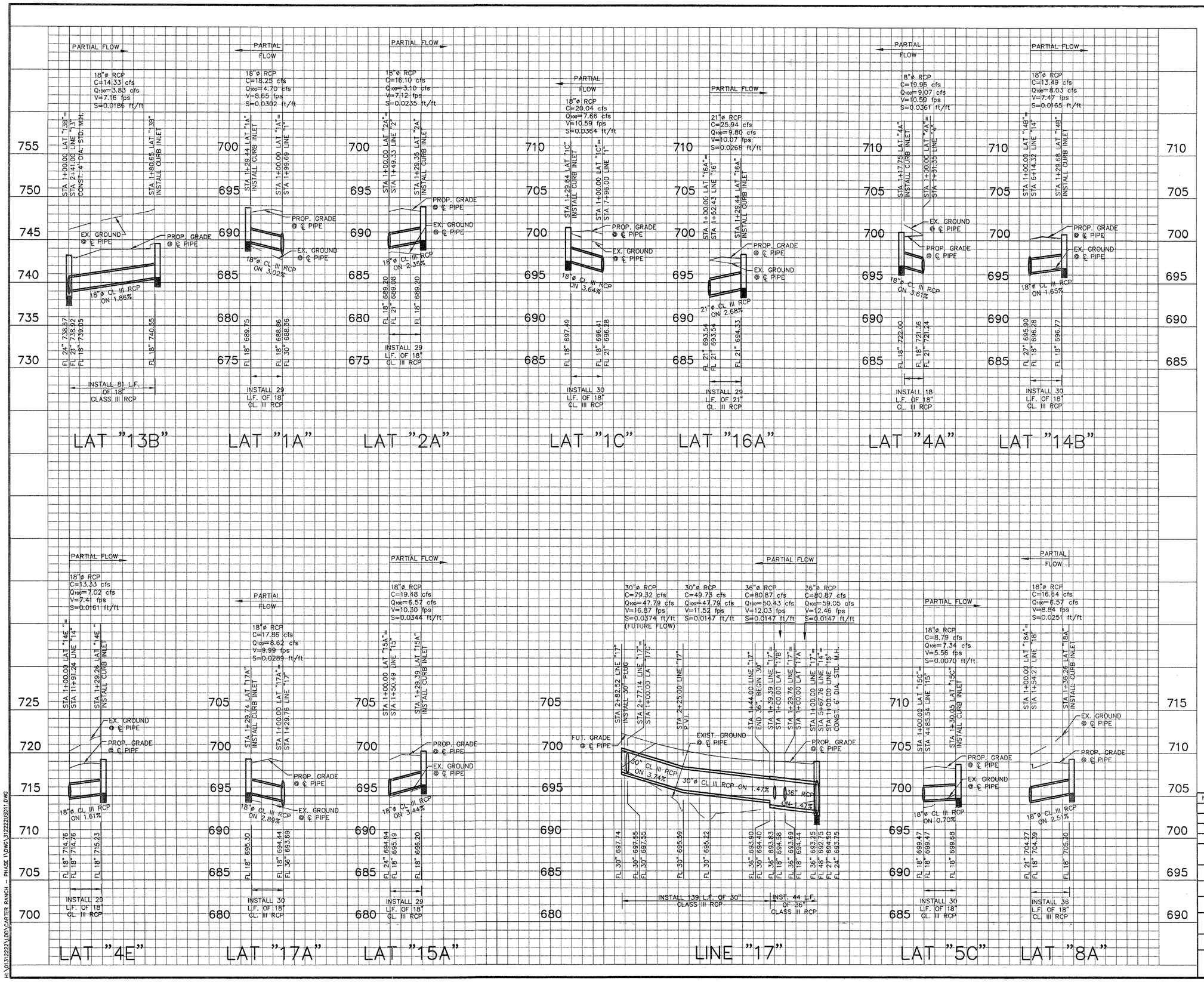
P-200304-01



RECORD DRAWING

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DATE: 2/5/04

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

BENCHMARKS:

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ELEVATION 681.67 FEET

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ELEVATION 681.76 FEET

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER — 4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

STORM LATERAL PROFILE

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
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Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	46

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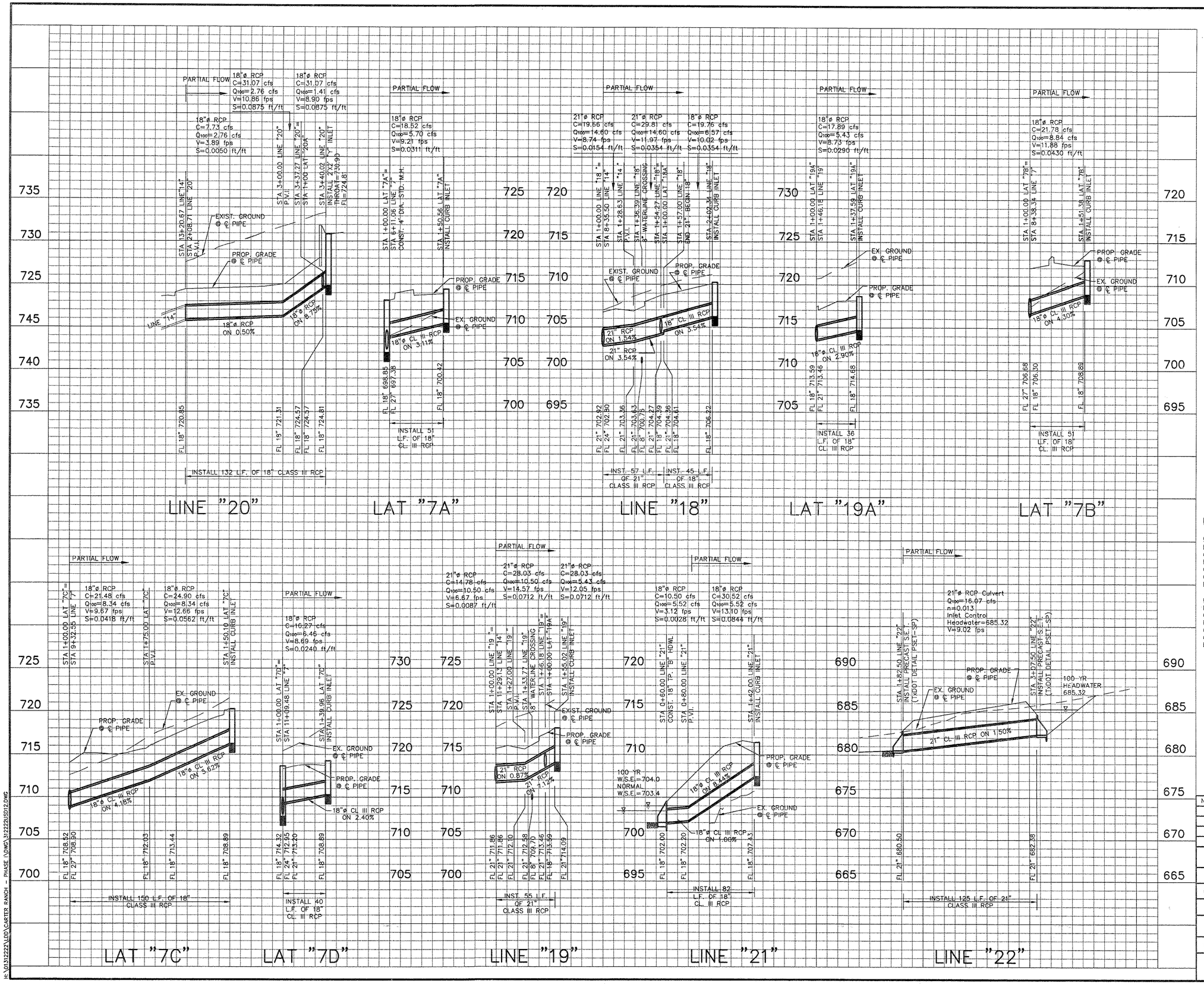
P-200304-01



RECORD DRAWING

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DATE: 4/9/04

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

BENCHMARKS:

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ELEVATION 681.67 FEET

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ELEVATION 681.76 FEET

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

STORM LATERAL PROFILE

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

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Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	47

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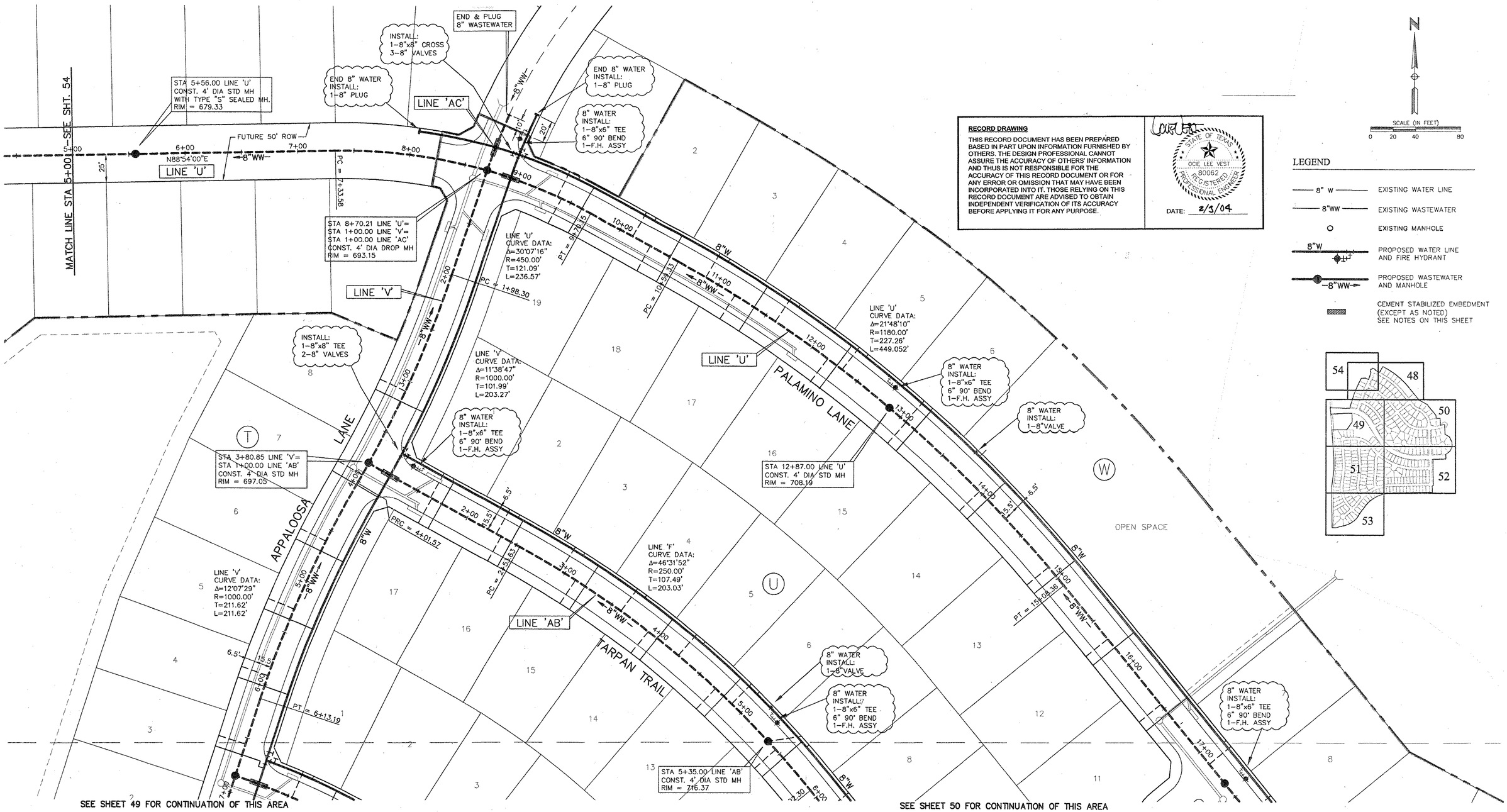
P-200304-01



RECORD DRAWING

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER

DATE: 2/3/04

SCALE (IN FEET)
0 20 40 80

LEGEND

- 8" W — EXISTING WATER LINE
- 8"WW — EXISTING WASTEWATER
- EXISTING MANHOLE
- 8"W — PROPOSED WATER LINE AND FIRE HYDRANT
- 8"WW — PROPOSED WASTEWATER AND MANHOLE
- CEMENT STABILIZED EMBEDMENT (EXCEPT AS NOTED) SEE NOTES ON THIS SHEET

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.76 FEET

WATERLINE & WASTEWATER INSTALLATION AT CROSSINGS:

1. Where shown on the plans, and where necessary due to the use of wastewater pipe of a standard length of less than 18 feet, encase the wastewater line with 18 linear feet of encasement pipe centered under waterline at the crossing. Flexible encasing pipe shall have a minimum pipe stiffness of 115 psi at 5% deflection. Encasement pipe shall be 2 nominal sizes larger then the wastewater pipe. Wastewater pipe shall be supported at 5' intervals in encasement pipe with spacers or washed sand to the springline of the wastewater pipe. Each end of the casing shall be sealed with watertight non-shrink cement grout or a manufactured watertight seal. An absolute minimum separation distance of six inches between the encasement pipe and the waterline shall be provided. The potable water pipe segment shall be centered over the wastewater line.

2. Where shown on the plans, and where the standard pipe segment length of the wastewater is at least 18 feet, provide a minimum 18-foot segment of waterline centered over the wastewater line such that the joints of the waterline pipe are equidistant and at least 9' horizontally from the centerline of the wastewater line. The potable waterline shall be at least two feet above the wastewater line. Whenever possible, the crossing shall be centered between the joints of the wastewater line. The wastewater pipe at the crossing shall have a minimum pipe stiffness of 115 psi at 5% deflection. The wastewater line shall be embedded in cement stabilized sand for the total length of one pipe segment plus 12 inches beyond the joint on each end (20 feet). Cement stabilized sand shall have a minimum of 10% cement per cubic yard of cement stabilized sand mixture (at least 2.5 bags of cement per cubic yard of mixture) The cement stabilized sand bedding shall be a minimum of six inches above and four inches below the wastewater pipe.

3. Where a new waterline crosses under a wastewater line and the standard length of the wastewater pipe is less than 18 feet in length, or where specifically shown on the plans, encase the waterline as described in note 1. An absolute minimum of 1' of separation between the waterline and the wastewater line shall be provided.

4. Where a new waterline is within 9' of a wastewater manhole or cleanout, the potable waterline shall be encased in a joint of 150 psi pressure class pipe at least 18' long and 2 nominal sizes larger than the new conveyance. The space around the carrier pipe shall be supported at 5' intervals with spacers or be filled to the spring line with washed sand. The encasement pipe shall be centered on the crossing and both ends sealed with non-shrink cement grout or a manufactured water tight seal.

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER
4/14/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

WATER & WASTEWATER PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS
Huitt-Zollars, Inc.
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311
Dallas
Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	1"=40'		01312222	48

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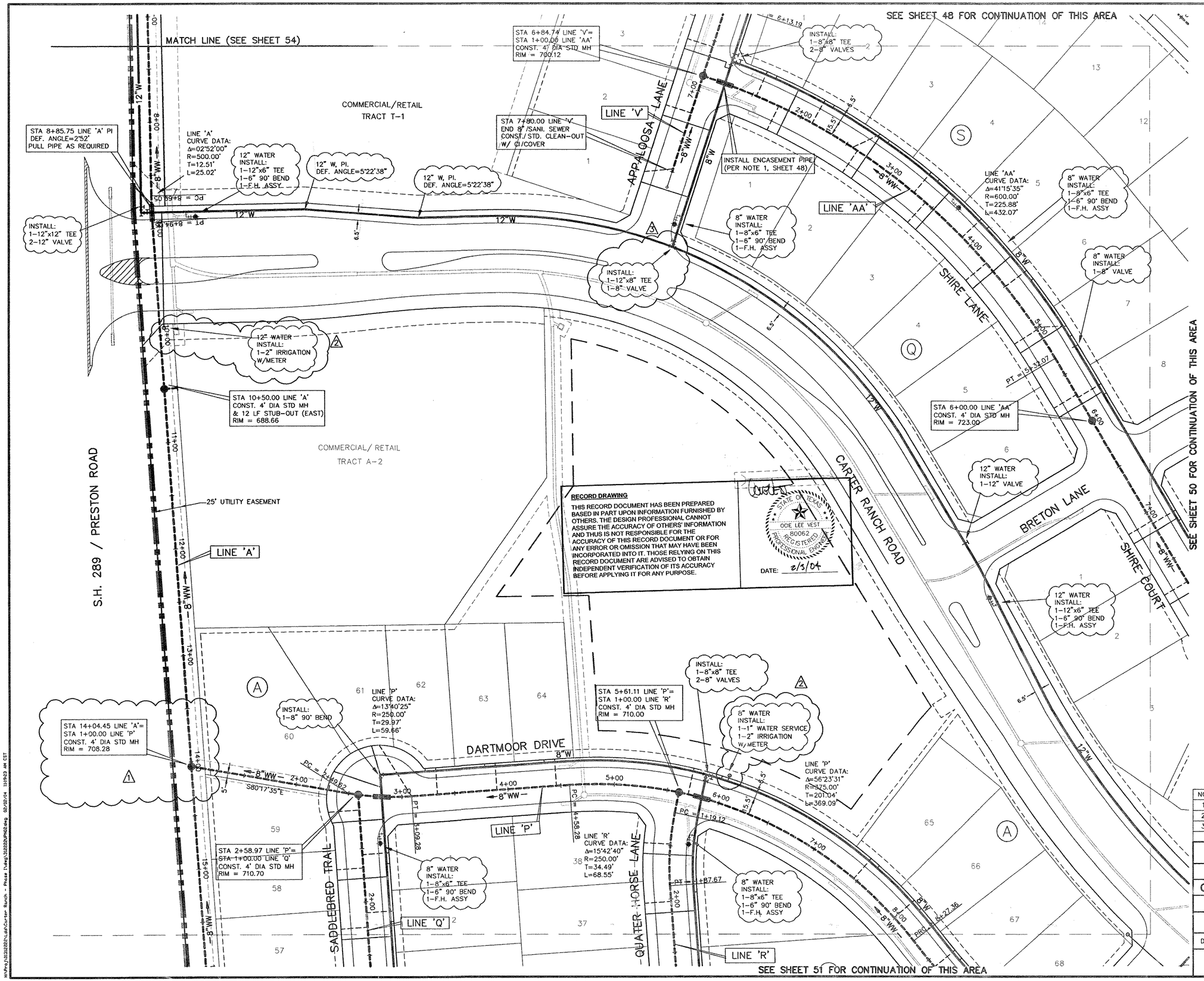

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

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ELEVATION 681.76 FEET

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER
2/2/04

NO.	DATE	REVISIONS	APPROVED
1	05/01/03	SAN. SEWER CHANGES	
2	08/12/03	ADD 2" IRRIGATION W/METER	
3	02/02/04	REMOVE 12" GATE VALVE	

CARTER RANCH - PHASE I

WATER & WASTEWATER PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

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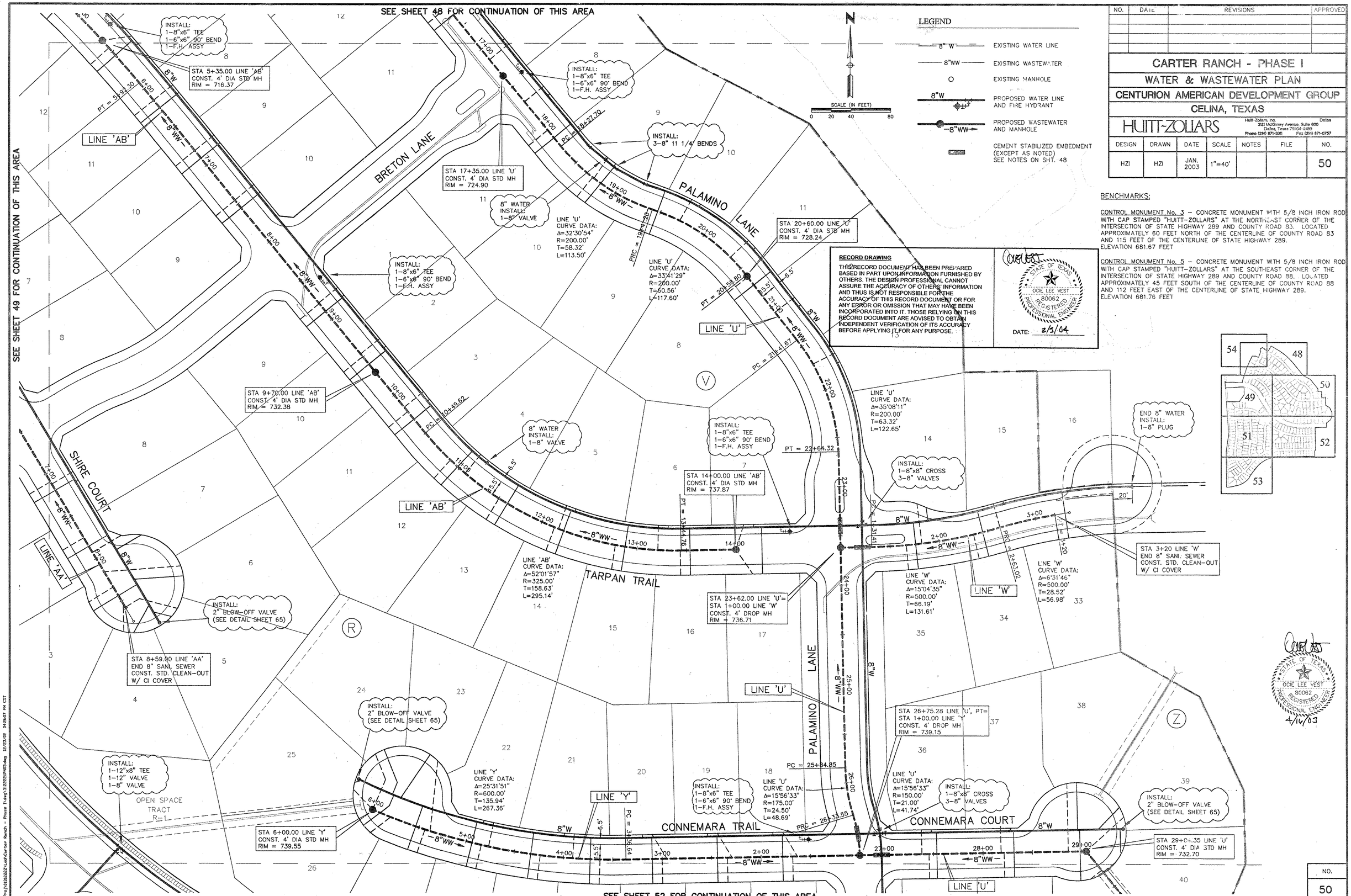
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	JANUARY 2004	1"=40'		01312222	49

P-200304-01

SEE SHEET 48 FOR CONTINUATION OF THIS AREA

SEE SHEET 49 FOR CONTINUATION OF THIS AREA

SEE SHEET 52 FOR CONTINUATION OF THIS AREA



LEGEND

- 8" W — EXISTING WATER LINE
- 8"WW — EXISTING WASTEWATER
- EXISTING MANHOLE
- 8"W — PROPOSED WATER LINE AND FIRE HYDRANT
- 8"WW — PROPOSED WASTEWATER AND MANHOLE
- CEMENT STABILIZED EMBEDMENT (EXCEPT AS NOTED) SEE NOTES ON SHT. 48

RECORD DRAWING

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STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

WATER & WASTEWATER PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS — Huitt-Zollars, Inc. 3131 McKinney Avenue, Suite 600 Dallas, Texas 75204-2460 Phone (214) 871-3311 Fax (214) 871-0757 Dallas

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	JAN. 2003	1"=40'			50

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289. ELEVATION 681.67 FEET

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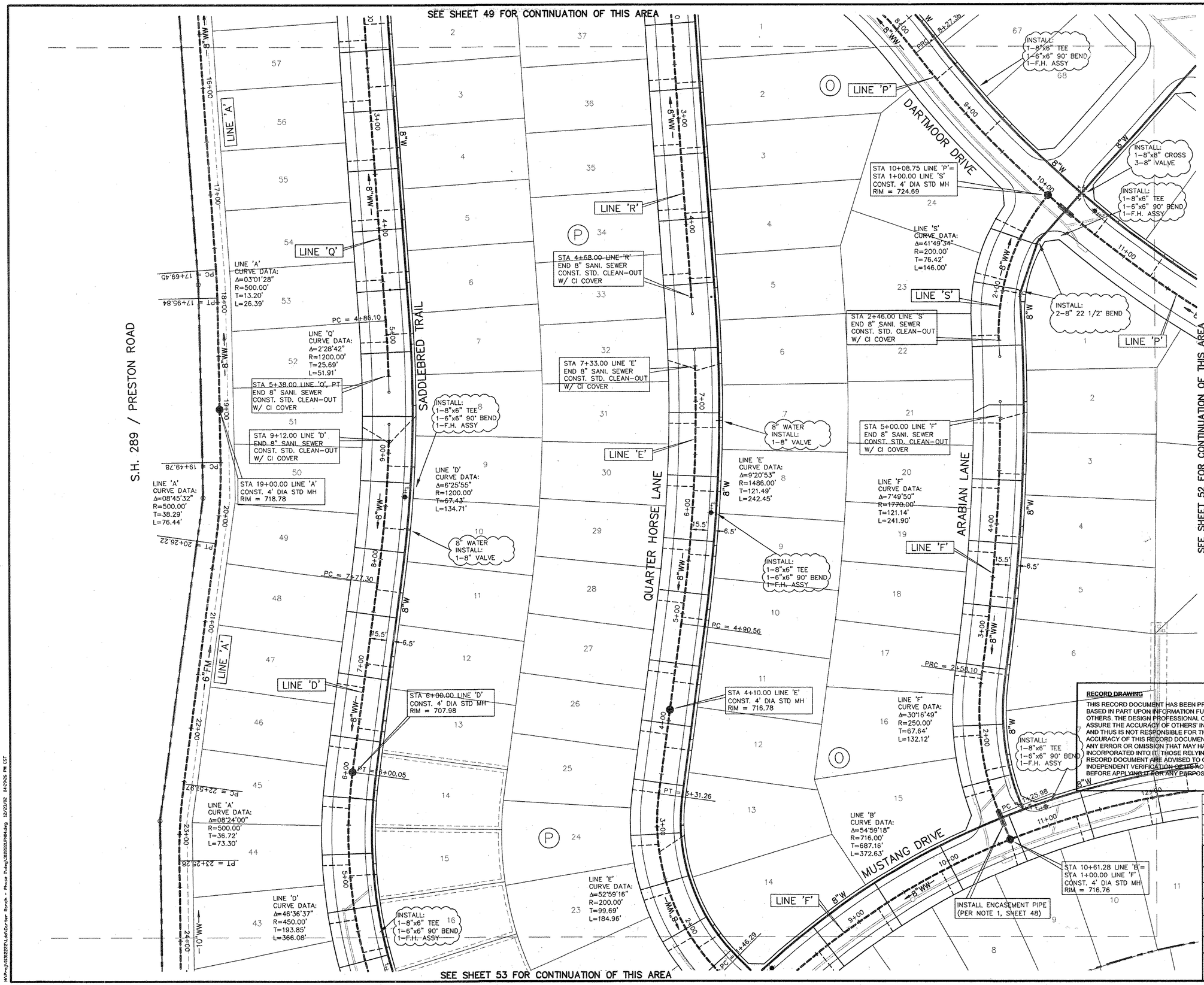
STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

4/16/03

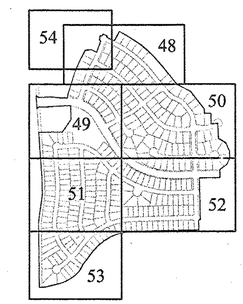
NO. 50

P-200304-01



LEGEND

8" W	EXISTING WATER LINE
8"WW	EXISTING WASTEWATER
○	EXISTING MANHOLE
8"W	PROPOSED WATER LINE AND FIRE HYDRANT
8"WW	PROPOSED WASTEWATER AND MANHOLE
▨	CEMENT STABILIZED EMBEDMENT (EXCEPT AS NOTED) SEE NOTES ON SHEET 48



BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289. ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289. ELEVATION 681.76 FEET

RECORD DRAWING

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STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04

STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

4/14/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

WATER & WASTEWATER PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
2101 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	1"=40'		01312222	51

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P-200304-01

SEE SHEET 50 FOR CONTINUATION OF THIS AREA

SEE SHEET 51 FOR CONTINUATION OF THIS AREA

CONNEMARA TRAIL

CONNEMARA COURT

CARTER RANCH ROAD

DARTMOOR DRIVE

PALAMINO LANE

MUSTANG TRAIL

12" WATER INSTALL:
1-12" VALVE
1-12"x6" TEE
1-6"x6" 90° BEND
1-F.H. ASSY

8" WATER
INSTALL:
1-2" IRRIGATION
W/METER

INSTALL:
1-12"x6" TEE
1-6"x6" 90° BEND
1-F.H. ASSY

INSTALL:
1-12"x12" CROSS
2-12" VALVES
1-8" VALVE
1-12"x8" REDUCER

END 12" WATER
INSTALL:
1-12" PLUG

STA 30+75.69 LINE 'U'
CONST. 4' DIA STD MH
RIM = 728.80
10 LF. STUB-OUT (SOUTH)
FOR FUTURE CONN.

S01°12'31"E

LINE 'P'
CURVE DATA:
Δ=44°43'38"
R=1000.00'
T=411.43'
L=780.64'

INSTALL:
1-8"x8" TEE
2-8" VALVES

INSTALL:
1-8"x6" TEE
1-6"x6" 90° BEND
1-F.H. ASSY

STA 7+00.00 LINE 'G'
END 8" SANI. SEWER
CONST. STD. CLEAN-OUT
W/ CI COVER

INSTALL:
1-8"x6" TEE
1-6"x6" 90° BEND
1-F.H. ASSY

8" WATER
INSTALL:
1-2" IRRIGATION
W/METER

INSTALL:
1-12"x12" CROSS
2-12" VALVES
1-8" VALVE
2-12"x8" REDUCER

STA 13+50.03 LINE 'P'=
STA 1+00.00 LINE 'T'
CONST. 4' DIA STD MH
RIM = 737.65

LINE 'T'

LINE 'P'

LINE 'G'

STA 1+90.00 LINE 'T'
END & PLUG 6" WW

LINE 'G'
CURVE DATA:
Δ=4°39'42"
R=1000.00'
T=40.70'
L=81.36'

STA 3+82.00 LINE 'G'
CONST. 4' DIA STD MH
RIM = 745.59

END 8" WATER
INSTALL:
1-8" PLUG

STA 16+08.00 LINE 'P'
END 8" SANI. SEWER
CONST. STD. CLEAN-OUT
W/ CI COVER

LINE 'G'

INSTALL ENCASEMENT PIPE
(PER NOTE 1, SHEET 48)

INSTALL:
1-12"x12" CROSS
2-12" VALVES
1-8" VALVE
2-12"x8" REDUCER

8" WATER
INSTALL:
1-8" VALVE

STA 15+60.70 LINE 'B'
CONST. 4' DIA STD MH
RIM = 742.32

INSTALL:
1-8"x6" TEE
1-6"x6" 90° BEND
1-F.H. ASSY

LINE 'B'

END 8" WATER
INSTALL:
1-8" PLUG

STA 20+38.80 LINE 'B'=
STA 1+00.00 LINE 'G'
CONST. 4' DIA STD MH
RIM = 743.27

STA 20+89 LINE 'B'
END 8" SANI. SEWER
AND PLUG FOR FUTURE
CONN.

INSTALL:
1-12"x6" TEE
1-6"x6" 90° BEND
1-F.H. ASSY

SCALE (IN FEET)
0 20 40 80

LEGEND

8" W	EXISTING WATER LINE
8"WW	EXISTING WASTEWATER
	EXISTING MANHOLE
8"W	PROPOSED WATER LINE AND FIRE HYDRANT
8"WW	PROPOSED WASTEWATER AND MANHOLE
	CEMENT STABILIZED EMBEDMENT (EXCEPT AS NOTED) SEE NOTES ON SHEET 48

54 48 50 49 51 52 53

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289.
ELEVATION 681.67 FEET

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ELEVATION 681.76 FEET

RECORD DRAWING

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER

DATE: 2/3/04

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER
2/2/04

NO.	DATE	REVISIONS	APPROVED
1	08/12/03	ADD 2" IRRIGATION W/METER	
2	02/02/04	RELOCATE 12" VALVE	

CARTER RANCH - PHASE I

WATER & WASTEWATER PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

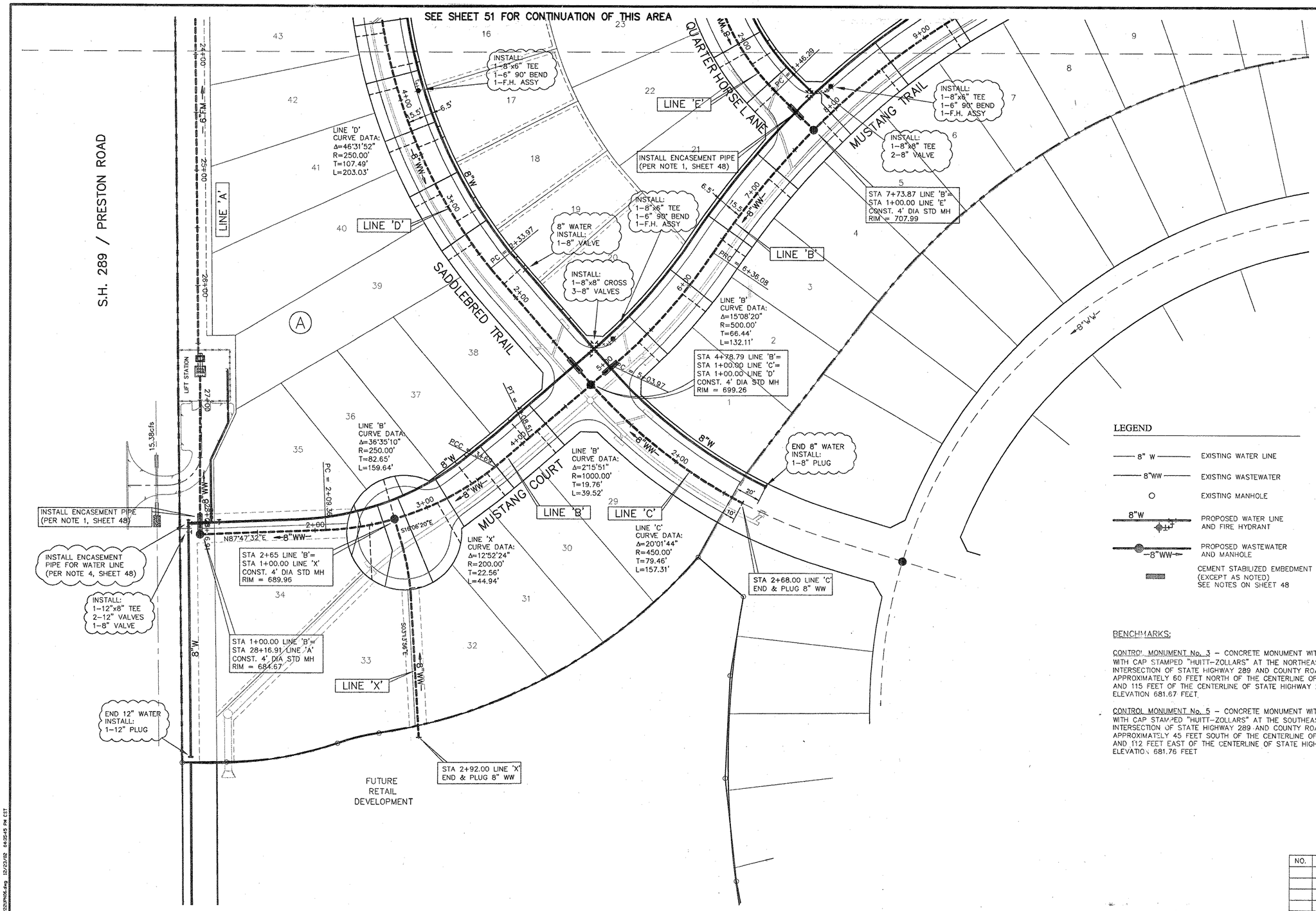
CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	JANUARY 2004	1"=40'		01312222	52

P-200304-01



LEGEND

8" W	EXISTING WATER LINE
8"WW	EXISTING WASTEWATER
○	EXISTING MANHOLE
8"W	PROPOSED WATER LINE AND FIRE HYDRANT
8"WW	PROPOSED WASTEWATER AND MANHOLE
	CEMENT STABILIZED EMBEDMENT (EXCEPT AS NOTED) SEE NOTES ON SHEET 48

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289. ELEVATION 681.67 FEET.

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER
4/16/03

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED
PROFESSIONAL ENGINEER

DATE: 2/3/04

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

WATER WASTEWATER UTILITY PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS
Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 500
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	1"=40'		01312222	53

NOTE:
12" WATER LINE, WET WELL, LIFT STATION, & FORCE MAIN BY SEPARATE CONTRACT

12" WATER INSTALL: 1-12" PLUG

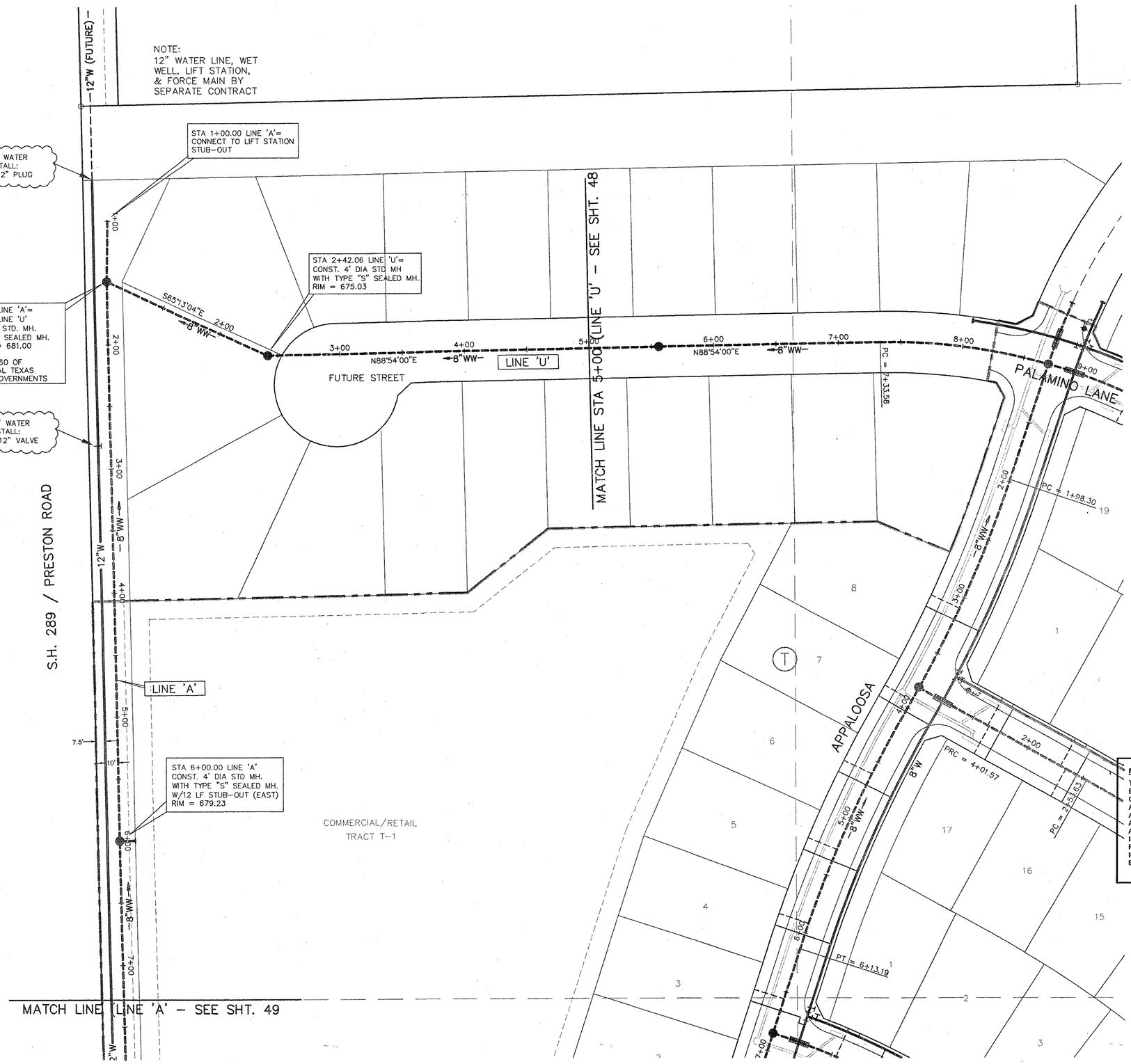
STA 1+00.00 LINE 'A'= CONNECT TO LIFT STATION STUB-OUT

STA 2+42.06 LINE 'U'= CONST. 4' DIA STD MH WITH TYPE "S" SEALED MH. RIM = 675.03

STA 1+49.53 LINE 'A'= STA 1+00.00 LINE 'U' CONST. 4' DIA STD. MH. WITH TYPE "S" SEALED MH. VENTED ELE. = 681.00 RIM = 674.46 SEE SHEET 5060 OF NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

12" WATER INSTALL: 1-12" VALVE

STA 6+00.00 LINE 'A' CONST. 4' DIA STD MH. WITH TYPE "S" SEALED MH. W/12 LF STUB-OUT (EAST) RIM = 679.23

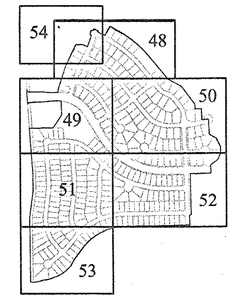


LEGEND

8" W	EXISTING WATER LINE
8"WW	EXISTING WASTEWATER
○	EXISTING MANHOLE
8"W	PROPOSED WATER LINE AND FIRE HYDRANT
8"WW	PROPOSED WASTEWATER AND MANHOLE
▨	CEMENT STABILIZED EMBEDMENT (EXCEPT AS NOTED) SEE NOTES ON DETAIL SHEET

N

SCALE (IN FEET)
0 20 40 80



BENCHMARKS:

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ELEVATION 681.67 FEET

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ELEVATION 681.76 FEET

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/14/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

WATER & WASTEWATER PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

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3131 McKinney Avenue, Suite 600
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Dallas

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003			01312222	54

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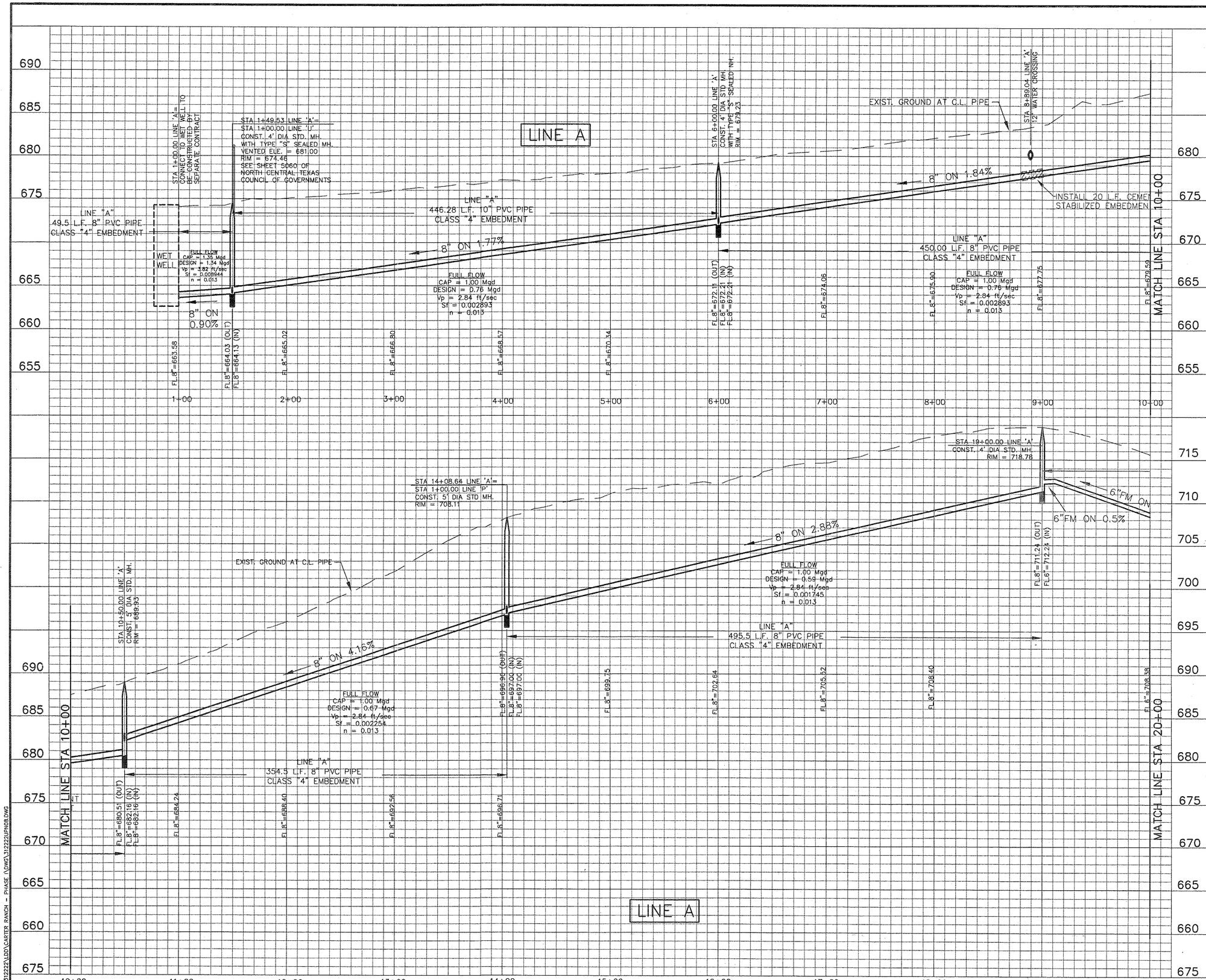

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DATE: 2/5/04

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

BENCHMARKS:

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/14/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

WASTEWATER PROFILE–LINE A

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

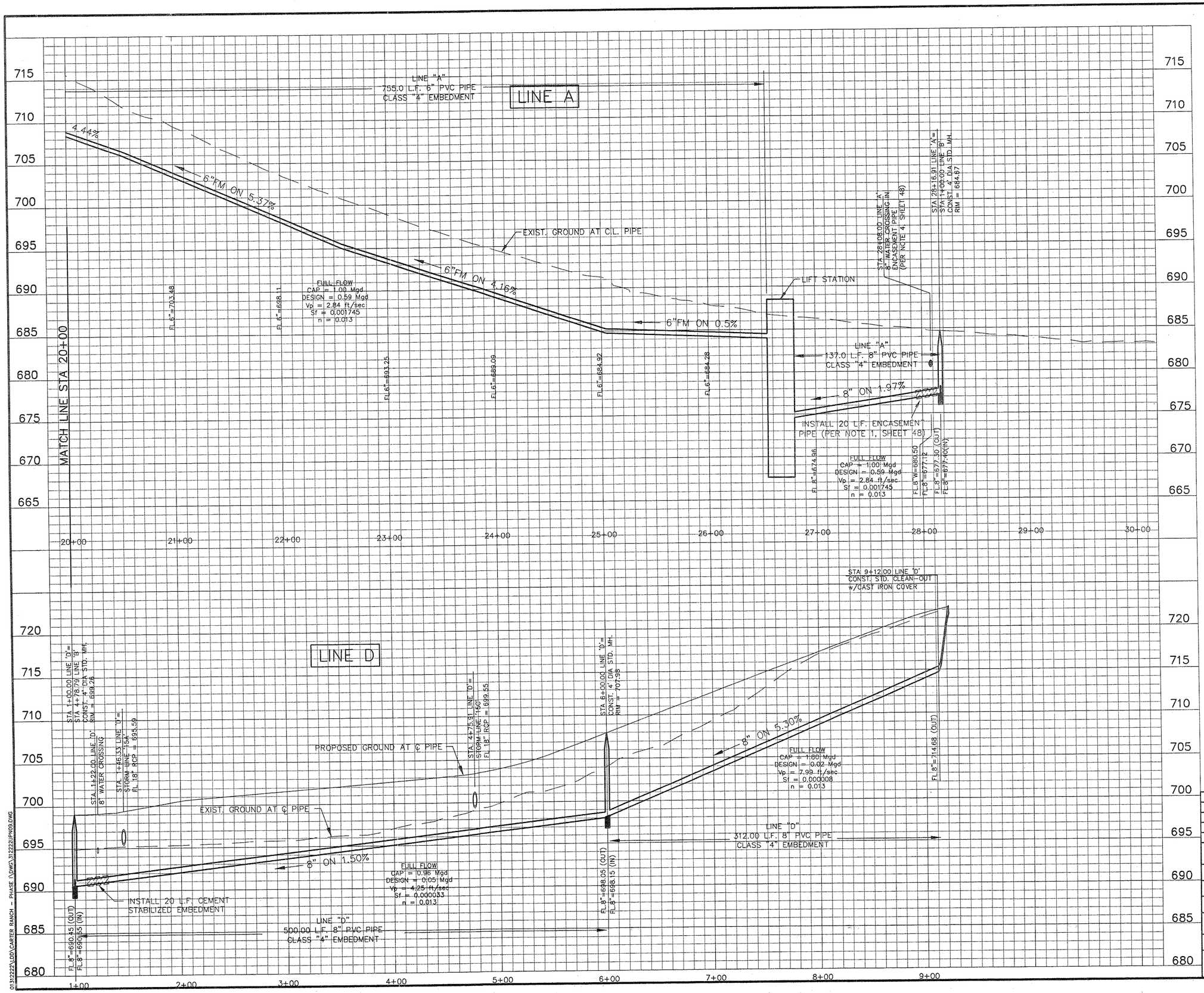
HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	55

01312222\LDD\CARTER RANCH – PHASE I\DWG\312222\PN08.DWG

P-200304-01



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STATE OF TEXAS
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80062
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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/16/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

WASTEWATER PROFILE–LINES A&D

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS
Huitt-Zollars, Inc.
3131 McKinney Avenue, Suite 500
Dallas, Texas 75204-2489
Phone (214) 871-3311
Dallas
Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	56

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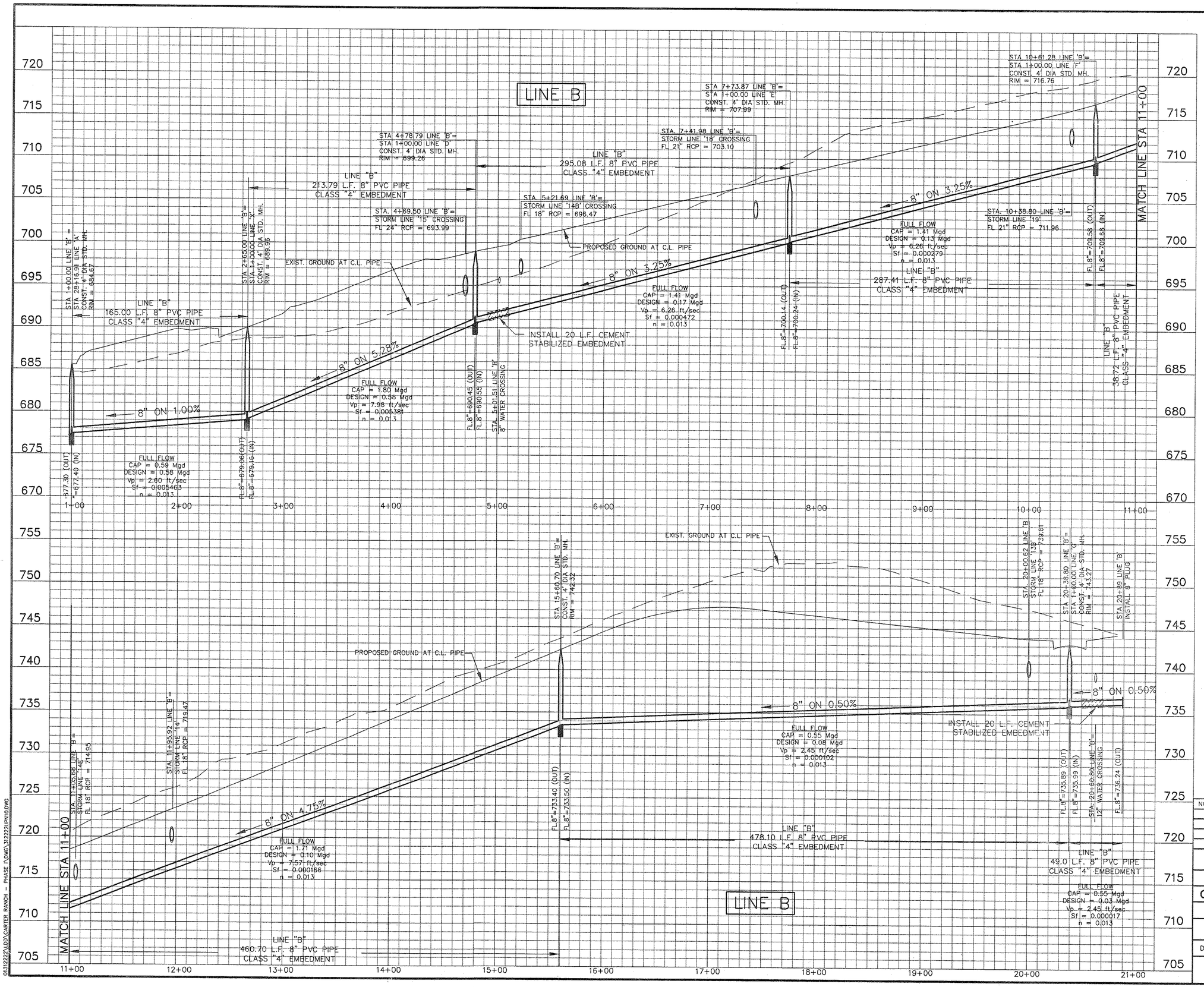

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STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

BENCHMARKS:

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STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

4/16/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

WASTEWATER PROFILE–LINE B

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. 3131 McKinney Avenue, Suite 600 Dallas, Texas 75204-2489 Phone (214) 871-3311 Fax (214) 871-0757 Dallas

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	57

P-200304-01

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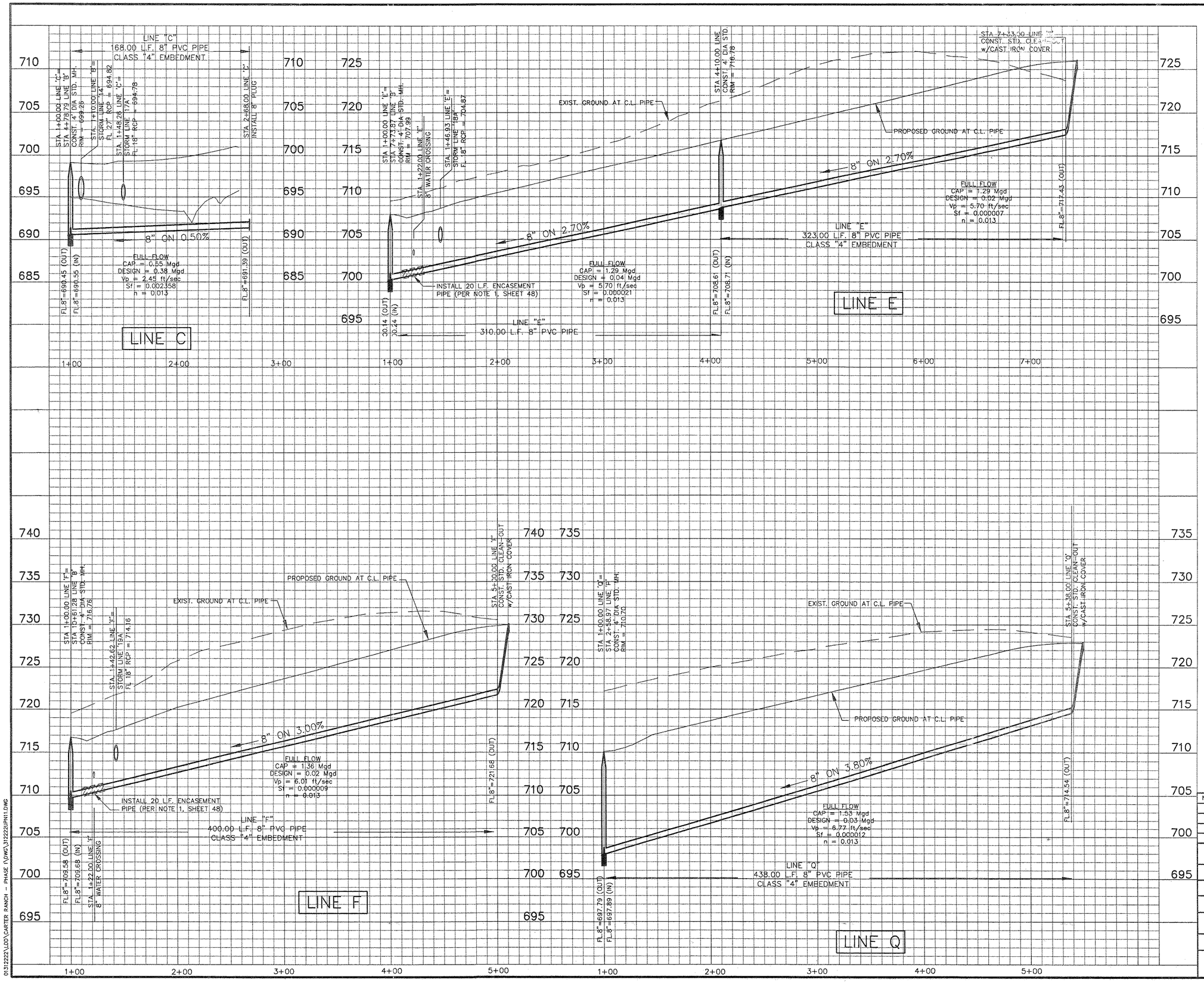

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

DATE: 2/9/04

BENCHMARKS:

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80062
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CARTER RANCH - PHASE I

WASTEWATER PROFILE–LINES C,E,F&Q

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

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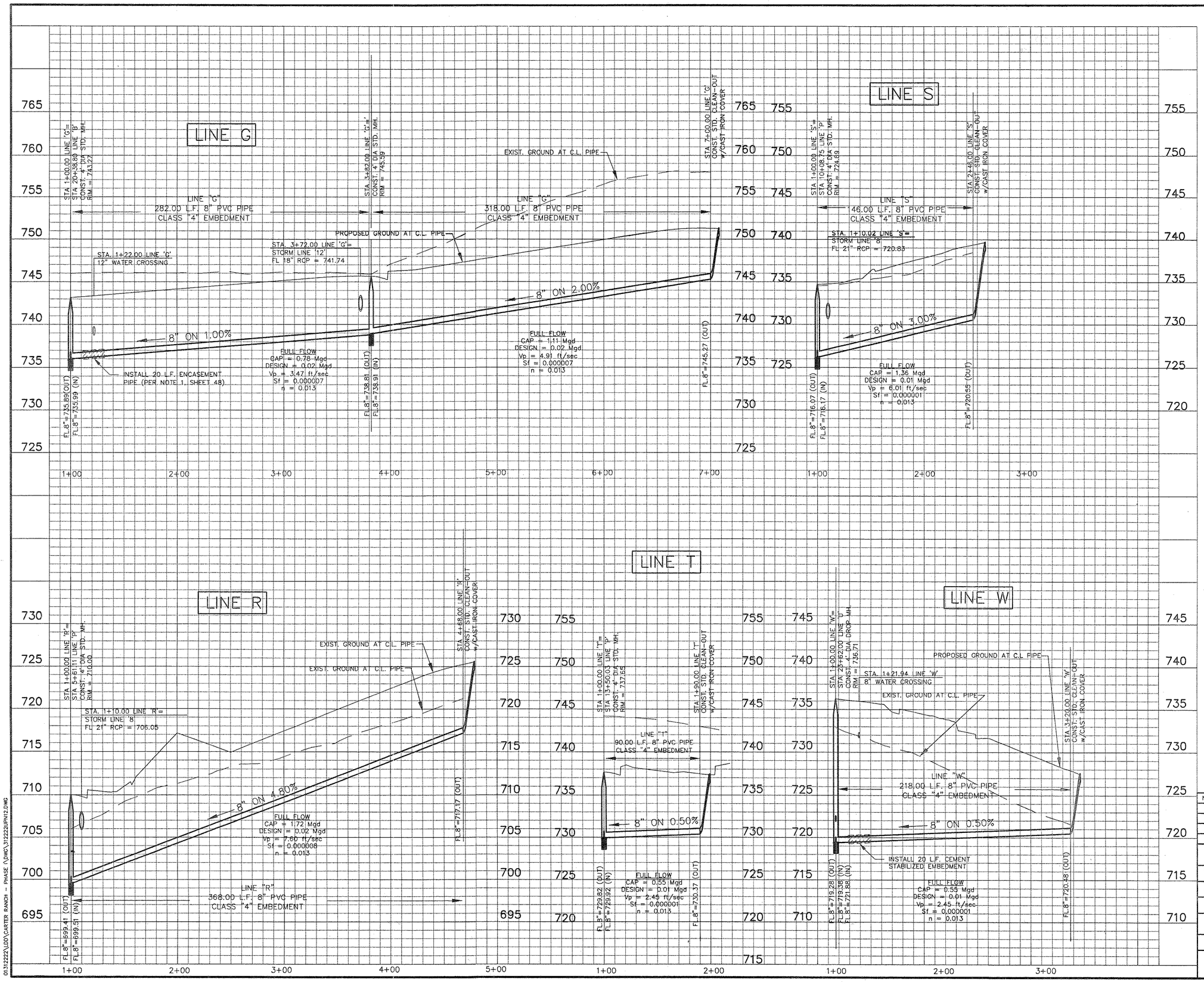
Dallas

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	58

01312222\LDD\CARTER RANCH – PHASE I\DWG\312220PH11.DWG

P-200304-01



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DATE: 2/3/04

BENCHMARKS:

CONTROL MONUMENT No. 3 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE NORTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 83. LOCATED APPROXIMATELY 60 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 83 AND 115 FEET OF THE CENTERLINE OF STATE HIGHWAY 289. ELEVATION 681.67 FEET

CONTROL MONUMENT No. 5 – CONCRETE MONUMENT WITH 5/8 INCH IRON ROD WITH CAP STAMPED "HUITT-ZOLLARS" AT THE SOUTHEAST CORNER OF THE INTERSECTION OF STATE HIGHWAY 289 AND COUNTY ROAD 88. LOCATED APPROXIMATELY 45 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 88 AND 112 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 289. ELEVATION 681.76 FEET

4/14/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

WASTEWATER PROFILE–LINES G,R,S,T&W

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
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Dallas, Texas 75204-2499
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003	H.1"=40' V.1"=5'		01312222	59

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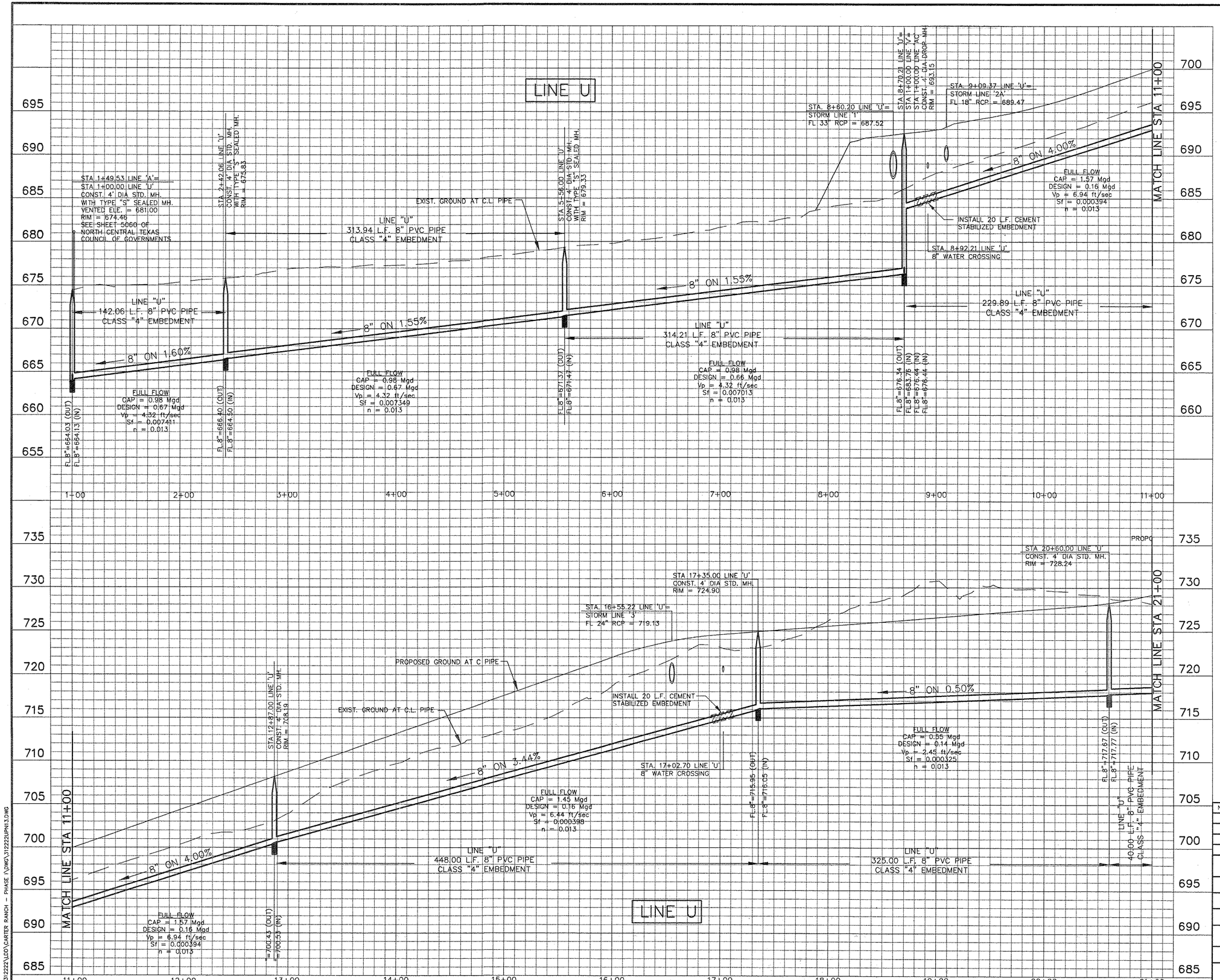

RECORD DRAWING

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DATE: 2/3/04

STATE OF TEXAS — DOIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

BENCHMARKS:

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STATE OF TEXAS — DOIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER — 4/14/03

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WASTEWATER PROFILE–LINE U

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

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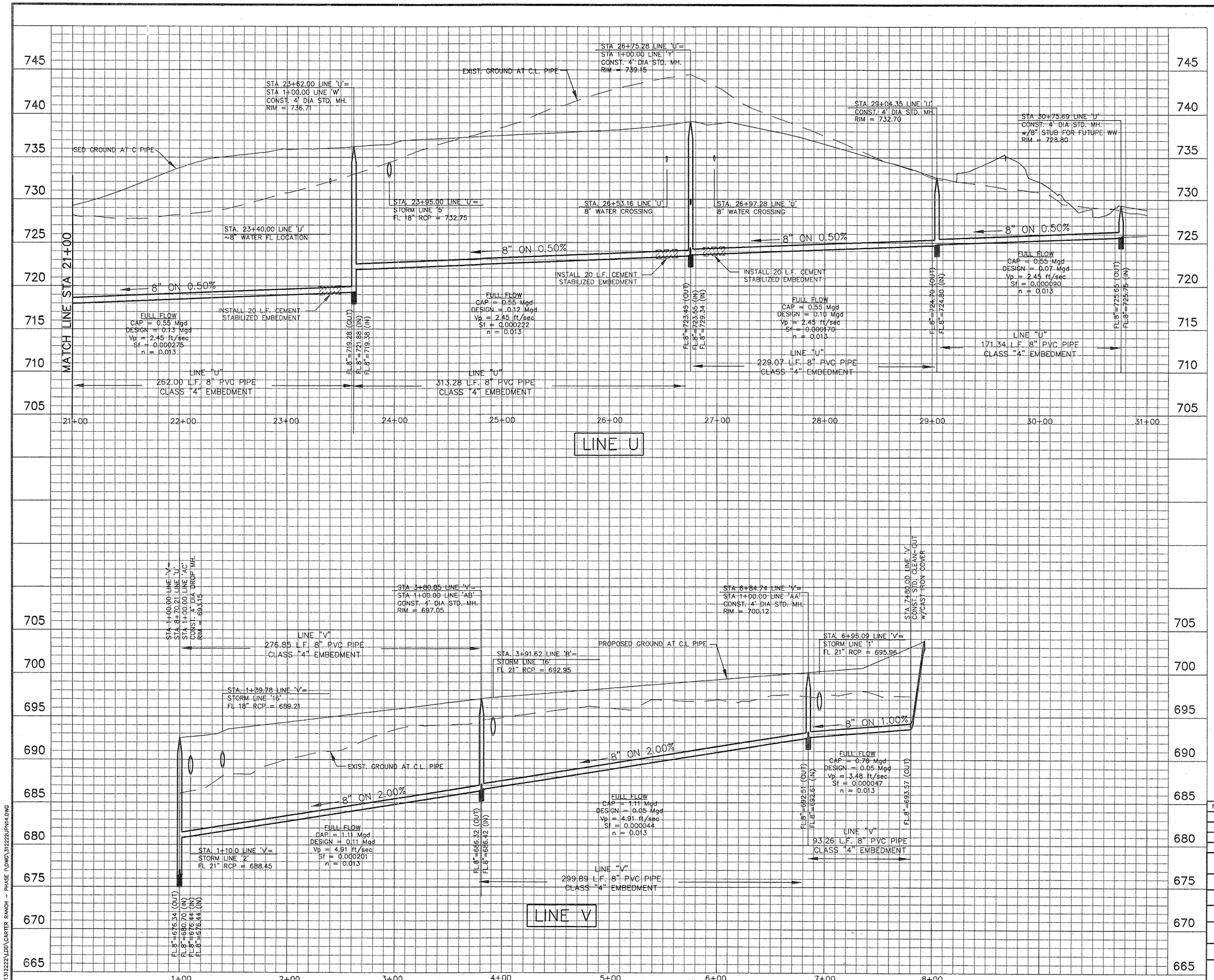

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OCIE LEE VEST
80062
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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/14/03

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WASTEWATER PROFILE–LINES U&V

CENTURION AMERICAN DEVELOPMENT GROUP

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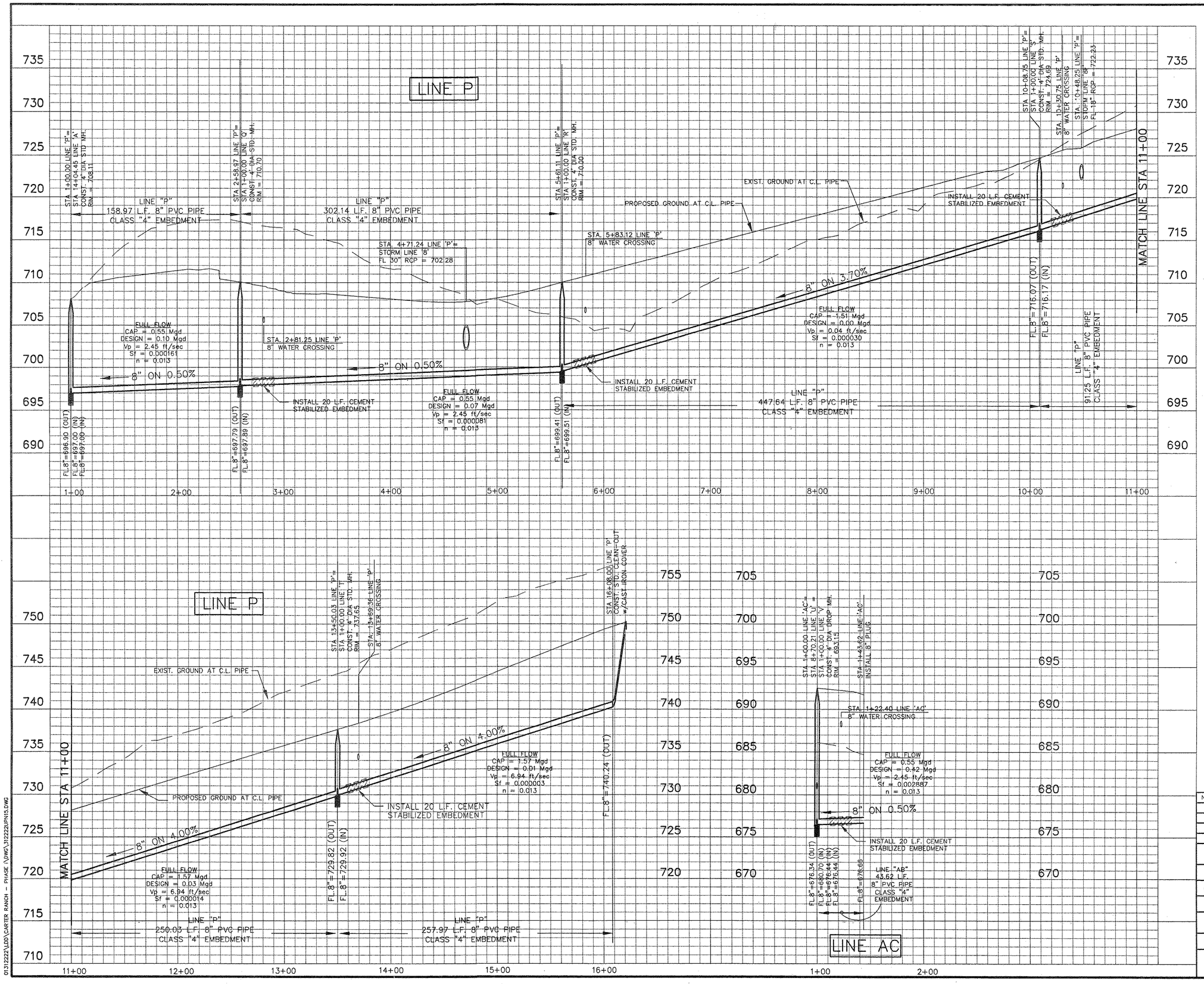

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/16/03

NO.	DATE	REVISIONS	APPROVED

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WASTEWATER PROFILE–LINES P&AC

CENTURION AMERICAN DEVELOPMENT GROUP

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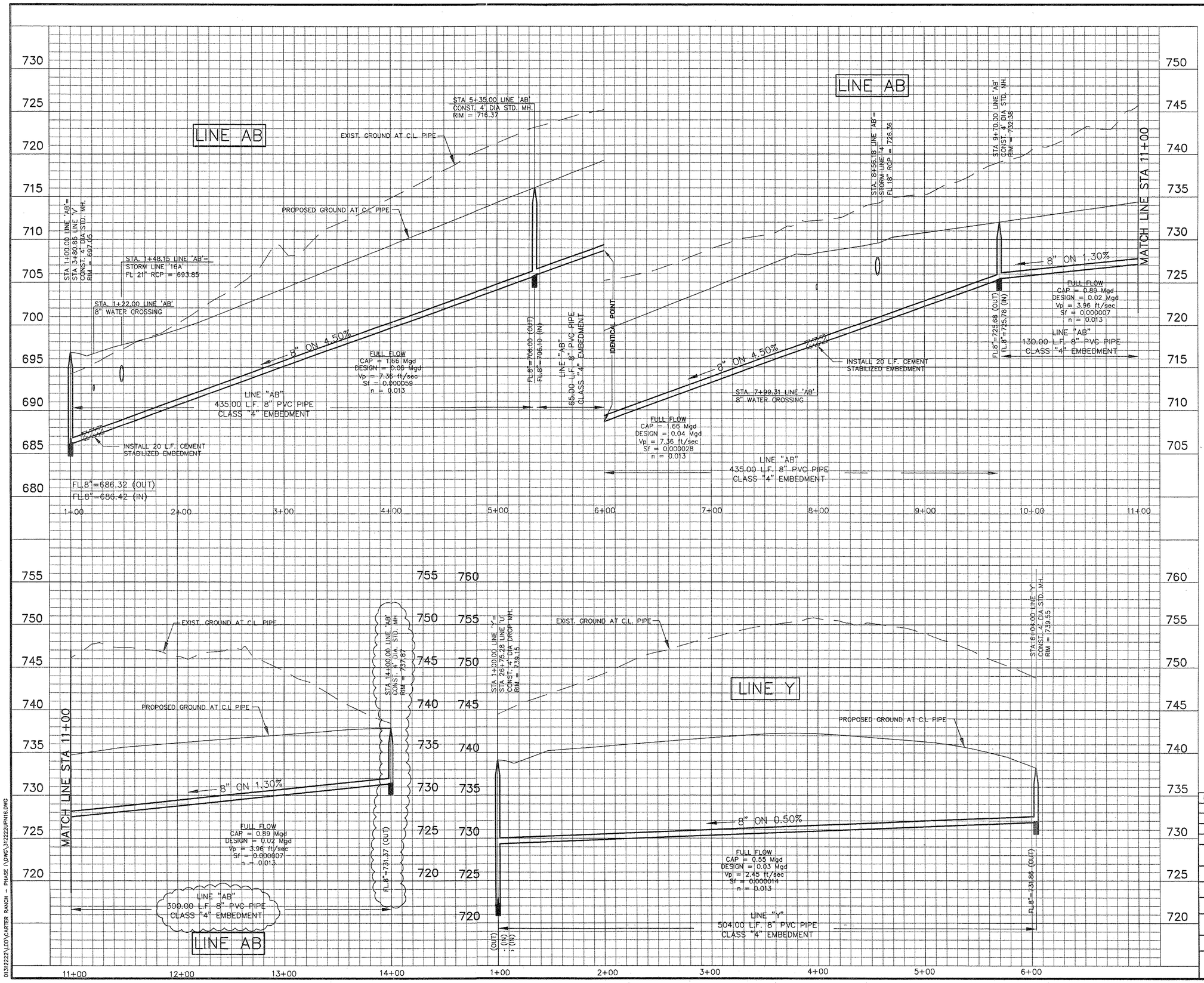

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STATE OF TEXAS
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4/14/03

NO.	DATE	REVISIONS	APPROVED
1	4 Mar 2003	MATCH INFO ON PLAN & PROFILE SHEETS	KC

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WASTEWATER PROFILE–LINE AB&Y

CENTURION AMERICAN DEVELOPMENT GROUP

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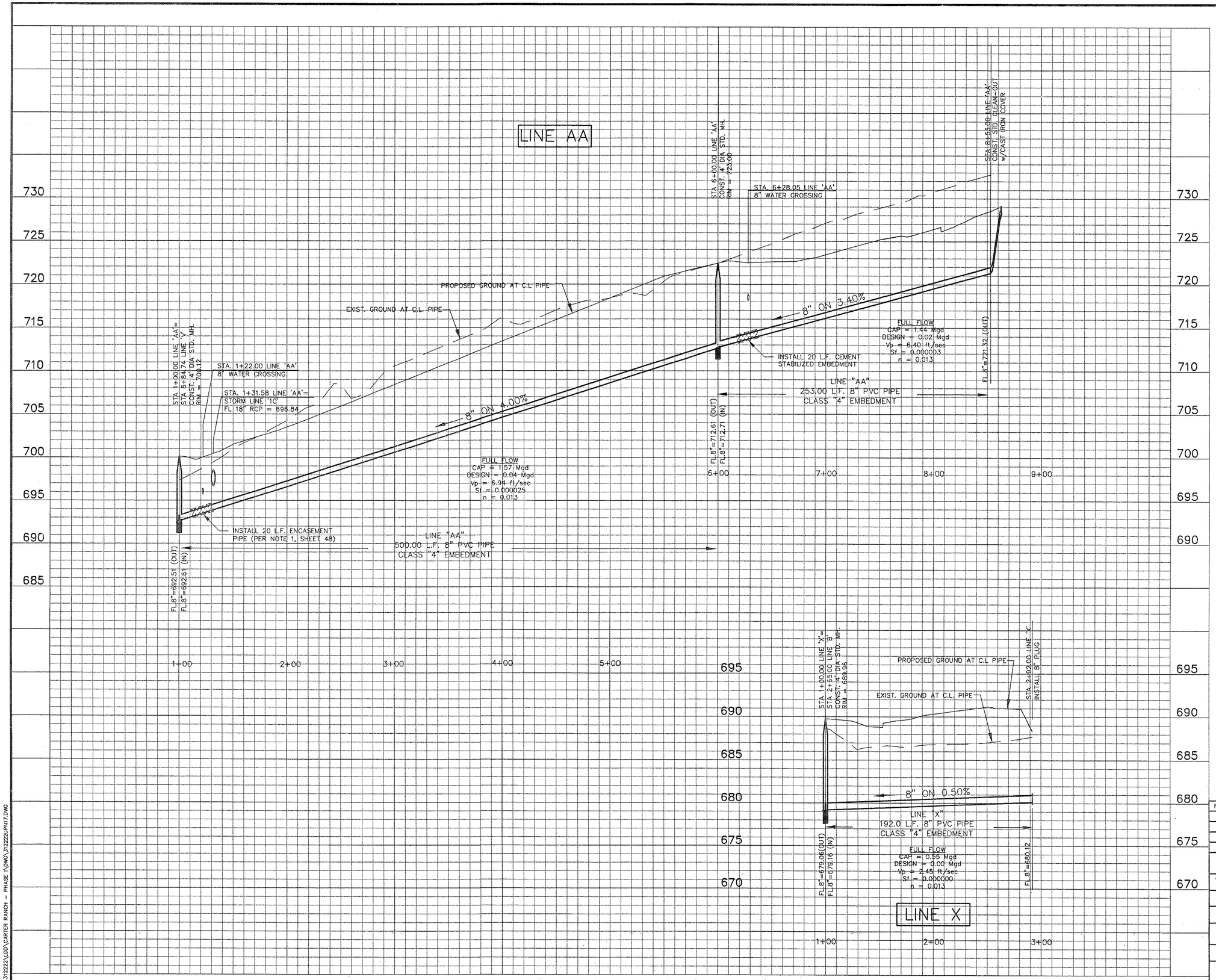

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WASTEWATER PROFILE–LINE AA & LINE X

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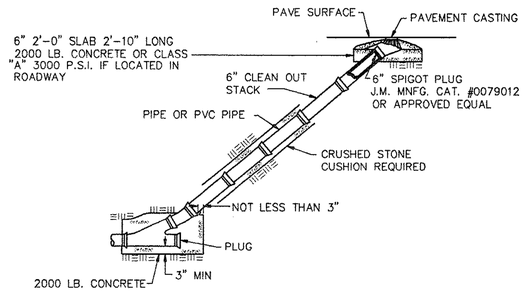
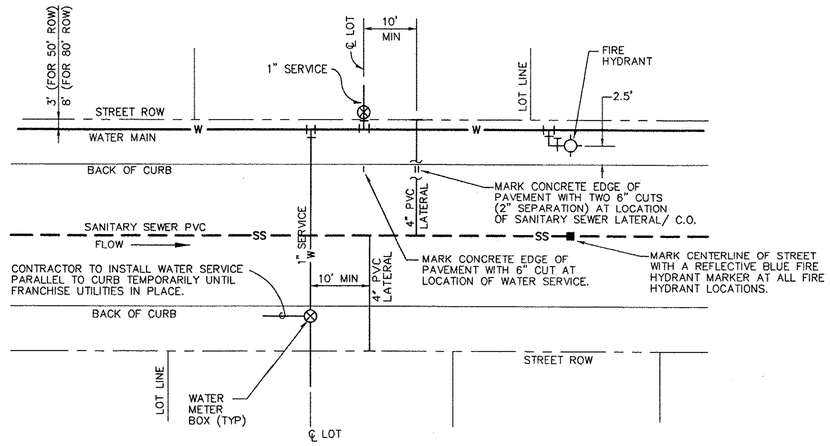


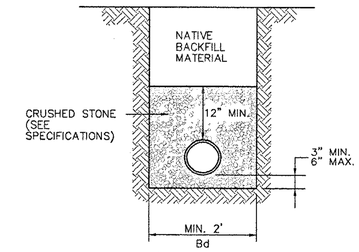
STANDARD CLEANOUT



TYPICAL WATER/SANITARY SEWER SERVICE AND FIRE HYDRANT DETAIL

(UNLESS OTHERWISE SHOWN)

NTS



CLASS "4" WASTEWATER EMBEDMENT

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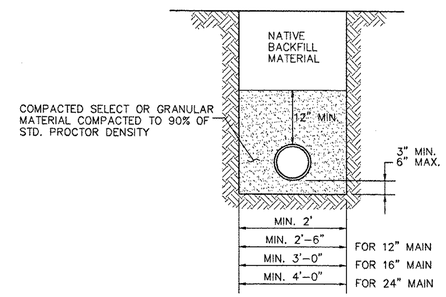

CLASS "B-4" WATER EMBEDMENT

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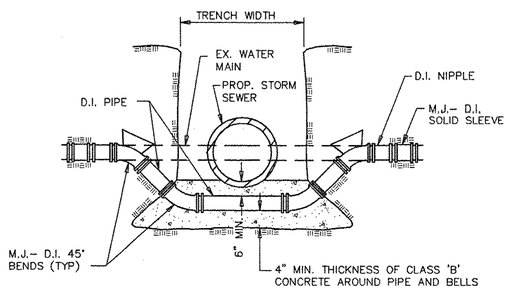
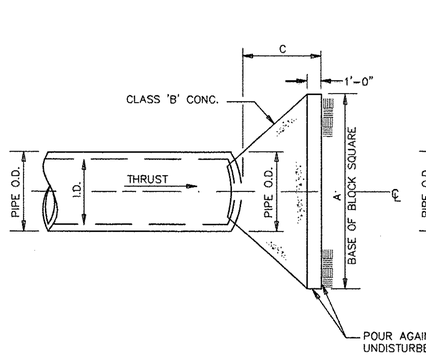
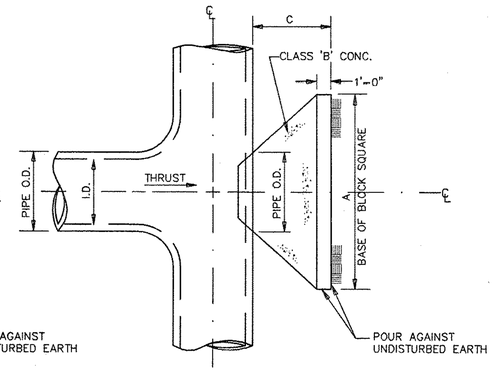


DETAIL FOR WATER MAIN LOWERING



PLAN OF PLUG THRUST BLOCK



PLAN OF TEE THRUST BLOCK

			EARTH		ROCK	
I.D. (IN.)	THRUST TONS	C. FT.	A. FT.	VOL. C.Y.	A. FT.	VOL. C.Y.
4, 6, 8	5.1	1.5	2.5	0.3	2.0	0.2
10, 12	11.3	1.5	3.5	0.6	2.5	0.3
16, 18	25.5	2.0	5.5	1.6	4.0	0.9

BENCHMARKS:

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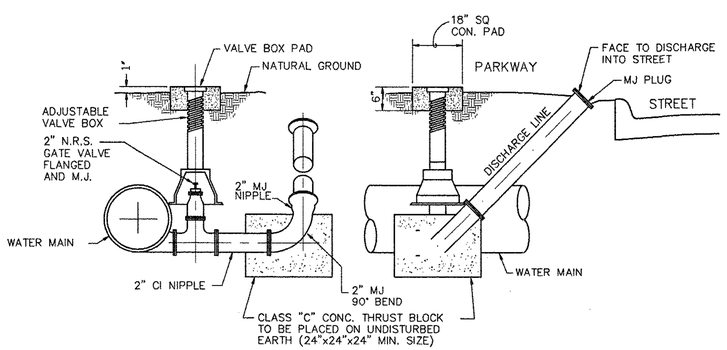

BLOW OFF VALVE DETAIL FOR 8" & 12" WATER MAIN

NTS

GENERAL NOTES:

1. ALLOWABLE SOIL BEARING PRESSURES MUST BE AT LEAST ONE TON PER SQUARE FOOT FOR THE THRUST BLOCKS SHOWN. IN SOILS OF LESSER CAPACITY INCREASE SIZE AND BEARING AREA PROPORTIONATELY VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED, AND THE CORRESPONDING WEIGHT OF THE CONCRETE (AT 4,000 #/CT) EQUALS THE VERTICAL COMPONENT OF THRUST ON THE VERTICAL BEND. ALL BEARING SURFACES OF THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH.

2. CONCRETE FOR BLOCKING SHALL BE MINIMUM 2000 PSI CONCRETE.

3. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER BUT SHALL NOT BE LESS THAN THE DIMENSIONS SHOWN.

4. POLYPIG SHALL BE PULLED THROUGH WATER LINES AND A PRESSURE TEST PERFORMED PER NCTCOG REGULATIONS BEFORE LINES ARE ACCEPTED BY CITY.

5. USE POLYETHYLENE WRAP BETWEEN CONCRETE BLOCKING AND PIPE FITTINGS.

6. TRACER WIRE OR TAPE TO BE INSTALLED PER CITY OF CELINA SUBDIVISION REGULATIONS.

7. ALL WATER LINES SHALL HAVE A MINIMUM OF 42" COVER PER CITY OF CELINA SUBDIVISION REGULATIONS.

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STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

DATE: 2/3/04

STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
4/9/03

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

UTILITY DETAILS

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

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HZI	HZI	APR. 2003	AS NOTED		01312222	65

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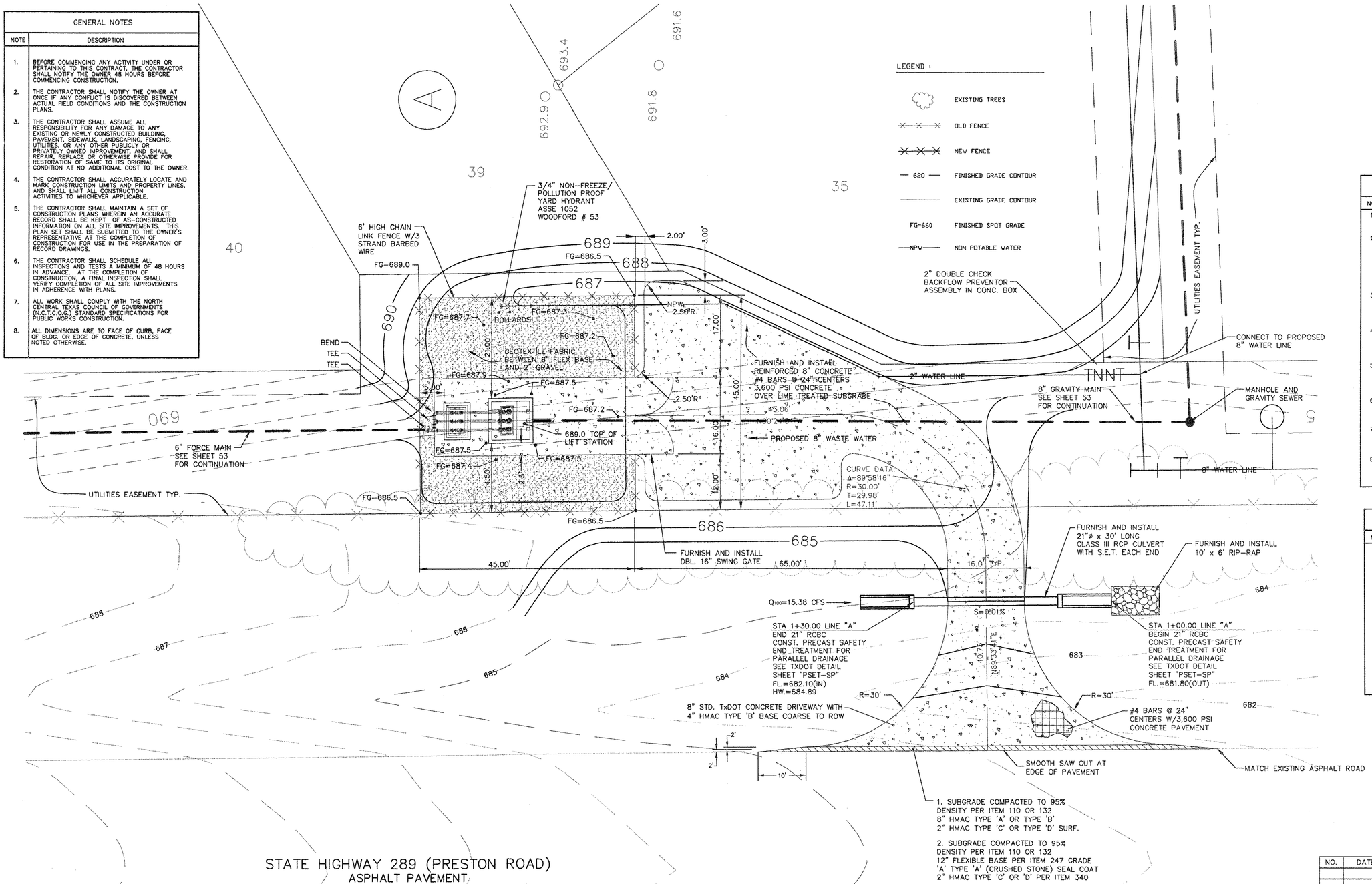
GENERAL NOTES

NOTE	DESCRIPTION
1.	BEFORE COMMENCING ANY ACTIVITY UNDER OR PERTAINING TO THIS CONTRACT, THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS BEFORE COMMENCING CONSTRUCTION.
2.	THE CONTRACTOR SHALL NOTIFY THE OWNER AT ONCE IF ANY CONFLICT IS DISCOVERED BETWEEN ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION PLANS.
3.	THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DAMAGE TO ANY EXISTING OR NEWLY CONSTRUCTED BUILDING, PAVEMENT, SIDEWALK, LANDSCAPING, FENCING, UTILITIES, OR ANY OTHER PUBLICLY OR PRIVATELY OWNED IMPROVEMENT, AND SHALL REPAIR, REPLACE OR OTHERWISE PROVIDE FOR RESTORATION OF SAME TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
4.	THE CONTRACTOR SHALL ACCURATELY LOCATE AND MARK CONSTRUCTION LIMITS AND PROPERTY LINES, AND SHALL LIMIT ALL CONSTRUCTION ACTIVITIES TO WHICHEVER APPLICABLE.
5.	THE CONTRACTOR SHALL MAINTAIN A SET OF CONSTRUCTION PLANS WHEREIN AN ACCURATE RECORD SHALL BE KEPT OF AS-CONSTRUCTED INFORMATION ON ALL SITE IMPROVEMENTS. THIS PLAN SET SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE AT THE COMPLETION OF CONSTRUCTION FOR USE IN THE PREPARATION OF RECORD DRAWINGS.
6.	THE CONTRACTOR SHALL SCHEDULE ALL INSPECTIONS AND TESTS A MINIMUM OF 48 HOURS IN ADVANCE. AT THE COMPLETION OF CONSTRUCTION, A FINAL INSPECTION SHALL VERIFY COMPLETION OF ALL SITE IMPROVEMENTS IN ADHERENCE WITH PLANS.
7.	ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (N.C.T.C.O.G.) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
8.	ALL DIMENSIONS ARE TO FACE OF CURB, FACE OF BLDG. OR EDGE OF CONCRETE, UNLESS NOTED OTHERWISE.



EROSION CONTROL

NOTE	DESCRIPTION
1.	CONTRACTOR SHALL INSTALL EROSION CONTROLS AS FIELD CONDITIONS WARRANT PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.
2.	AT A MINIMUM, PERIMETER CONTROLS SUCH AS SILT FENCE, AND/OR STRAW BALES SHALL BE INSTALLED AT ALL DOWN SLOPE BOUNDARIES AND AS WARRANTED WHERE UTILITY CONSTRUCTION, GRADING, OR OTHER CONSTRUCTION ACTIVITIES ARE TO BE PERFORMED. THE CONTRACTOR SHALL AT ALL TIMES TAKE SUCH MEASURES AS NECESSARY TO MINIMIZE OFF SITE TRACKING OR TRANSPORT OF SEDIMENT AND DEBRIS.
3.	THE CONTRACTOR SHALL BE REPONSIBLE FOR DAMAGES TO ADJACENT PROPERTIES OR TO RECEIVING WATERS CAUSED BY IMPROPERLY INSTALLED OR MAINTAINED EROSION CONTROL MEASURES.
4.	CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ANY SILT DEPOSITS OR TRACKING BEYOND THE LIMITS OF CONSTRUCTION CAUSED BY THE CONTRACTOR'S OPERATIONS AND/OR FAILURE OF THE EROSION CONTROL MEASURES.
5.	CONTRACTOR SHALL REMOVE AND DISPOSE OF ACCUMULATED SILT AND SEDIMENT FROM EROSION CONTROL MEASURES WHEN IT REACHES A DEPTH OF 6" OR IMPAIRS THE EFFECTIVENESS OF THE MEASURES.
6.	ALL STOCKPILED SOILS WILL BE SURROUNDED BY A STRAW BALE DIKE, SILT FENCE, SEDIMENT CONTROL SWALE, OR EQUIVALENT MEASURE TO PROPERLY CONTROL SEDIMENT RUNOFF.
7.	ALL EROSION CONTROL DEVICES SHALL REMAIN IN PLACE AND FUNCTIONAL UNTIL PROJECT COMPLETION OR UNTIL CONTRIBUTING DRAINAGE AREAS HAVE BEEN FULLY STABILIZED.
8.	STABILIZATION: THE CONTRACTOR SHALL STABILIZE ANY AREA WHERE CONSTRUCTION ACTIVITY IS TEMPORARILY OR PERMANENTLY CEASED FOR MORE THAN 14 DAYS.

GENERAL NOTES

NOTE	DESCRIPTION
1.	ALL DISTURBED AREAS SHALL BE GRADED TO DRAIN AS INDICATED ON THE PLANS AND UPON COMPLETION OF CONSTRUCTION. NO DRAINAGE SHALL BE DAMMED OR TRAPPED UNLESS SPECIFICALLY DIRECTED BY THE PLANS.
2.	ALL FILL SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY AS OBTAINED BY STANDARD COMPACTION PROCEDURE (ASTM D-698). THE MOISTURE CONTENT OF THIS MATERIAL SHALL RANGE BETWEEN OPTIMUM AND PLUS OR MINUS 5 PERCENT OF OPTIMUM.
3.	CONTRACTOR SHALL SOD ALL DISTURBED SLOPES WITH BUFFALO GRASS TO STABILIZE SLOPE.
4.	CONTRACTOR IS RESPONSIBLE FOR LEGALLY DISPOSING OF EXCESS MATERIAL RESULTING FROM GRADING OPERATIONS.
5.	ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (N.C.T.C.O.G.) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

STATE OF TEXAS
SANFORD W. CASE
69398
REGISTERED PROFESSIONAL ENGINEER
10-1-03

RECORD DRAWING

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STATE OF TEXAS
CCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER
DATE: 2/3/04

NO.	DATE	REVISIONS	APPROVED
1	09/24/03	REVISED DRIVEWAY ENTRANCE AND NOTES	

CARTER RANCH - PHASE I

LIFT STATION NO. 1

GRADING PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

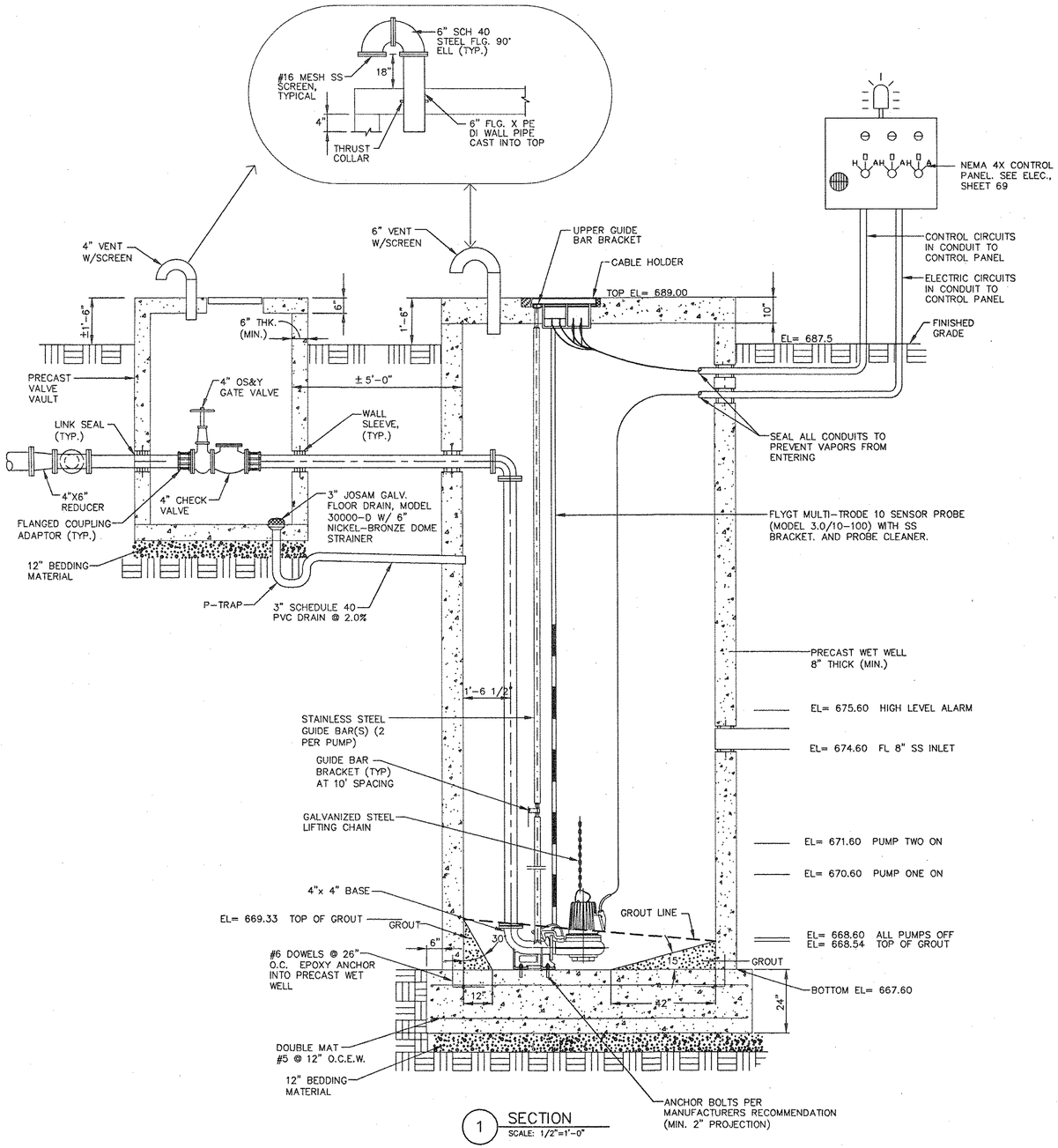
HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

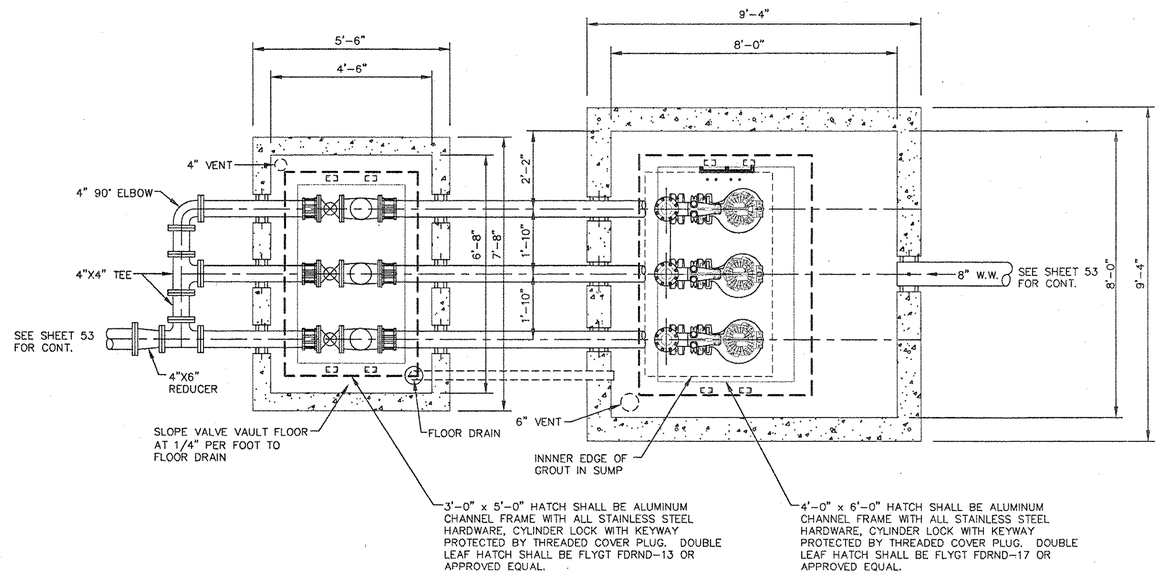
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	OCT. 2003			01312222	66

01312223\LDD\CARTER RANCH - PHASE I.DWG

P-200304-01



1 SECTION
SCALE: 1/2"=1'-0"



2 PLAN
SCALE: 1/2"=1'-0"

GENERAL NOTES

1. IN ORDER TO PREVENT SHEARING WITHIN THE BACKFILL AREAS, THE DISCHARGE PIPING SHALL BE DUCTILE IRON FROM THE LIFT STATION, THRU THE VALVE VAULT, AND ONE FULL PIPE JOINT INTO THE FORCE MAIN TRENCH.
2. ALL DUCTILE IRON PIPING SHALL BE ANSI/AWWA C115. FITTINGS SHALL BE ANSI/AWWA C110, DUCTILE IRON, FLANGED, STANDARD THICKNESS. JOINTS SHALL BE ANSI/AWWA C111, MECHANICAL JOINT. PIPE AND FITTINGS SHALL HAVE INTERNAL AND EXTERNAL EPOXY COATINGS. ALL BURIED DUCTILE IRON PIPING SHALL ALSO BE POLYETHYLENE ENCASED IN ACCORDANCE WITH AWWA C105.
3. ALL ELECTRICAL JUNCTION BOXES SHALL BE LOCATED OUTSIDE OF THE WET WELL BETWEEN THE CONTROL PANEL AND THE WET WELL. A SEAL COUPLING MAY BE USED IN LIEU OF A JUNCTION BOX. HOWEVER IT MUST BE LOCATED BETWEEN THE CONTROL PANEL AND THE WET WELL. ALL COMPONENTS WITHIN THE WET WELL SHALL BE EXPLOSION-PROOF.
4. WHERE PIPES OR CONDUIT PASS THRU THE WALL OF THE WET WELL, THE SPACE BETWEEN THE WET WELL AND THE PENETRATION SHALL BE SEALED WITH LINK SEALS.
5. THE FOUNDATION OF THE WET WELL SHALL REST ON UNDISTURBED SOIL. OVER EXCAVATION OF THE WET WELL FOUNDATION SHALL BE FILLED WITH 2,500 PSI CONCRETE TO THE ELEVATION SHOWN ON THE PLANS FOR THE BOTTOM OF THE WET WELL FOUNDATION.
6. CONTRACTOR SHALL GROUT OPENING FOR ACCESS FRAMES AND SUMP BOTTOM AS SHOWN. GROUT SHALL BE COMPATIBLE WITH SPECIFIED COATINGS.
7. COMPLETELY RESTRAIN ALL JOINTS FOR PIPE, BENDS, TEES AND FITTINGS ON THE FORCE MAIN PIPING WITHIN THE LIFT STATION SITE AND WITHIN 100 FEET OUTSIDE OF THE LIFT STATION FENCE.
8. NEMA 4X TRI-PLEX PUMP CONTROL PANEL SHALL ALTERNATE PUMP STARTING SEQUENCE, INTERFACE WITH LIQUID LEVEL SENSORS, CONTAIN MAIN DISCONNECT SWITCH, PILOT LIGHTS, RUN TIME METERS, HIGH LEVEL/PUMPFAIL ALARM LIGHT, ALARM HORN BATTERY BACK-UP, AUTO-DIALLER, AND HAVE UNDERWRITERS LABORATORY APPROVAL LABEL. PUMP CONTROLLER SHALL BE FLYGT MT3 PC3 OR APPROVED EQUAL.
9. PRECAST VAULTS SHALL BE A MINIMUM OF 4,000 PSI CONCRETE. WALL THICKNESSES SHALL MEET OR EXCEED THE MINIMUMS LISTED. MANUFACTURER SHALL VERIFY WALL THICKNESS AND PROVIDE ADEQUATE REINFORCING FOR PROPOSED DEPTHS.
10. BACKFILL AROUND THE WET WELL AND VALVE VAULT SHALL BE COMPACTED TO 95% STANDARD PROCTOR AT +/- 3% OF OPTIMUM MOSITURE.
11. ALL EXPOSED METALLIC PIPE AND FITTINGS WITHIN THE WET WELL AND VALVE VAULT SHALL BE COATED WITH A MINIMUM OF TWO 6.0 MIL COATS (12.0 MILS TOTAL DFT) OF DEVOE BAR-RUST 233H HIGH PERFORMANCE EPOXY COATING OR APPROVED EQUAL.
12. ALL DUCTILE IRON PIPING SHALL BE LINED WITH TWO 8.0 MIL COATS (16 MILS TOTAL DFT) OF TNEMEC SERIES 164 - COLOR EPOXOLINE 80 OR APPROVED EQUAL.
13. ALL CONCRETE AND GROUT SURFACES INSIDE THE WET WELL SHALL BE COATED WITH A 6.0 MILS DFT PRIME COAT OF TNEMEC SERIES 201 EPOXOPRIME, 125 MIL DFT OF TNEMEC SERIES 434 CHEMBLOCK H2S AND A 16 MIL DFT TOP COAT OF TNEMEC SERIES 435 CHEMGEL. ALL CONCRETE AND GROUT SHALL HAVE A MINIMUM OF 28 DAYS CURE PRIOR TO COATING APPLICATION. ABRASIVE BLAST ALL SURFACES TO TO SSPC-SP13/NACE 6 PRIOR TO COATING APPLICATION. FOLLOW MANUFACTURERS PUBLISHED APPLICATION INSTRUCTIONS.
14. CONFIGURE GROUT IN WET WELL BOTTOM PER PUMP MANUFACTURES RECOMMENDATION.

RECORD DRAWING

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STATE OF TEXAS — OCIE LEE VEST — 80062 — REGISTERED PROFESSIONAL ENGINEER

DATE: 2/4/04

STATE OF TEXAS — SANFORD W. CASE — 59993 — REGISTERED PROFESSIONAL ENGINEER

4-15-03

PUMP SCHEDULE

NO.	SERVICE/LOCATION	PUMP EFFICIENCY %	G.P.M. (EA)	PRESSURE (FT. HD.)	DISCHARGE SIZE (IN)	ELECTRICAL				REMARKS
						VOLTS	PHASE	RPM	HP (EA)	
P-1	SEWAGE PUMP/LIFT STATION #1	59.3%	255	46.9	4"	230	1	1743	7.5	NOTE #1, NOTE #2, NOTE #3
P-2	SEWAGE PUMP/LIFT STATION #1	59.3%	255	46.9	4"	230	1	1743	7.5	NOTE #1, NOTE #2, NOTE #3
P-3	SEWAGE PUMP/LIFT STATION #1	59.3%	255	46.9	4"	230	1	1743	7.5	NOTE #1, NOTE #2, NOTE #3

NOTES:

1. SUBMERSIBLE SEWAGE TYPE W/RAIL RETRIEVAL SYSTEM & MULTI-TRODE CONTROL/FLYGT #NP-3127-180-HT-61-489-00-3055 OR APPROVED EQUAL.
2. SCHEDULED NUMBERS FOR PUMP EFFIENCY, GPM AND PRESSURE REFLECT ONE PUMP IN OPERATION. WHEN TWO PUMPS ARE OPERATING THE NUMBERS ARE AS FOLLOWS: PUMP EFFICIENCY - 50.7%. GPM - 376 GPM TOTAL, 188 GPM EACH. PRESSURE - 53.5 FT.
3. PUMPS AND MOTORS SHALL BE EXPLOSION PROOF.

NO.	DATE	REVISIONS	APPROVED

CARTER RANCH - PHASE I

LIFT STATION NO. 1

LIFT STATION PLAN AND SECTION

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

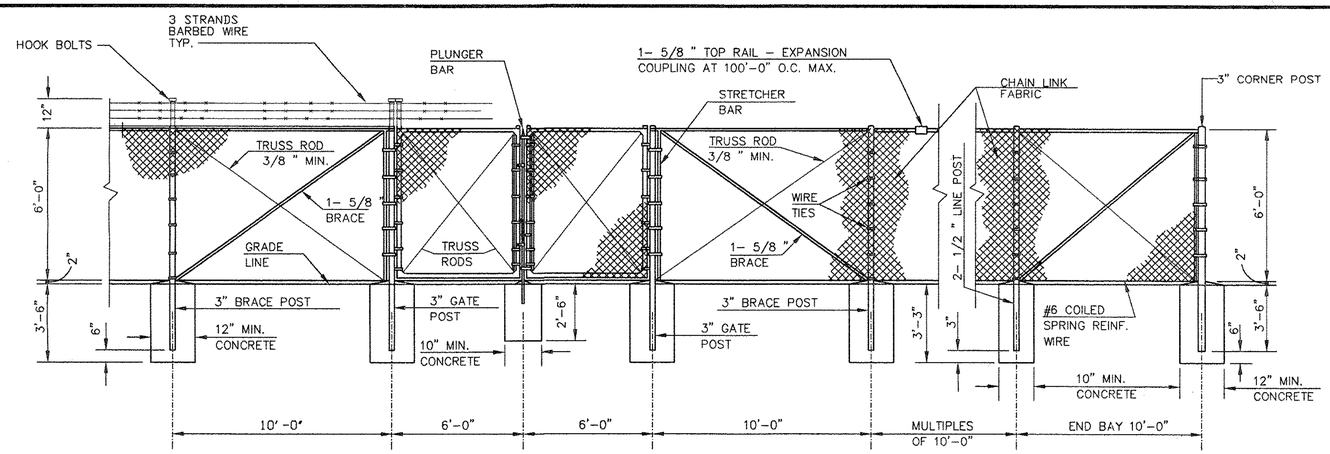
HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003			01312222	67

01312223\LDD\CARTER RANCH - PHASE I\DWG\

P-200304-01

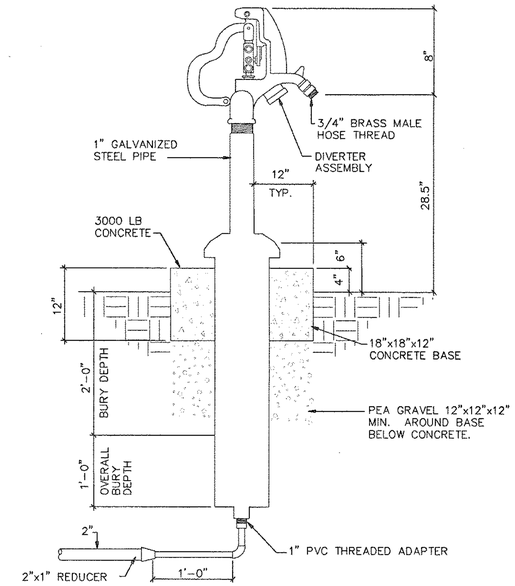


SECTION

1 CHAIN LINK FABRIC FENCE

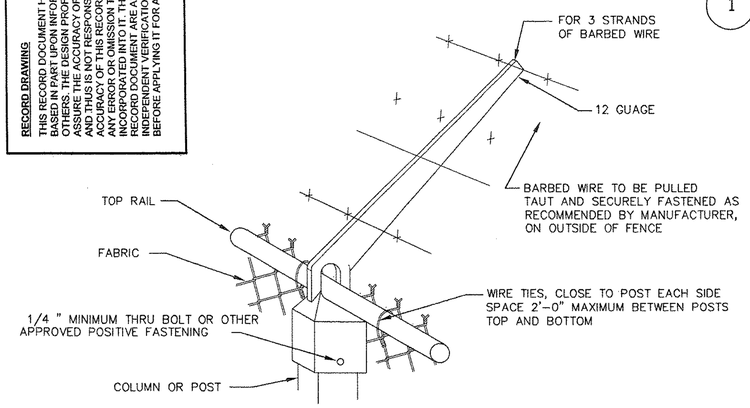
SCALE: NONE

(6'–0" MAXIMUM HEIGHT)



2 NON–FREEZE/POLLUTION PROOF YARD HYDRANT DETAIL

SCALE: NOT TO SCALE



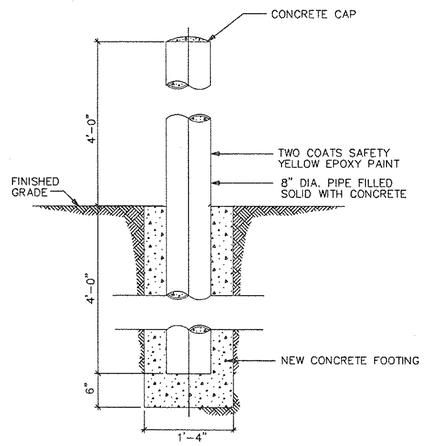
ARMS SIMILAR FOR TUBULAR POST OR H COLUMNS

2 EXTENSION ARM BARBED WIRE INSTALLATION

SCALE: NONE

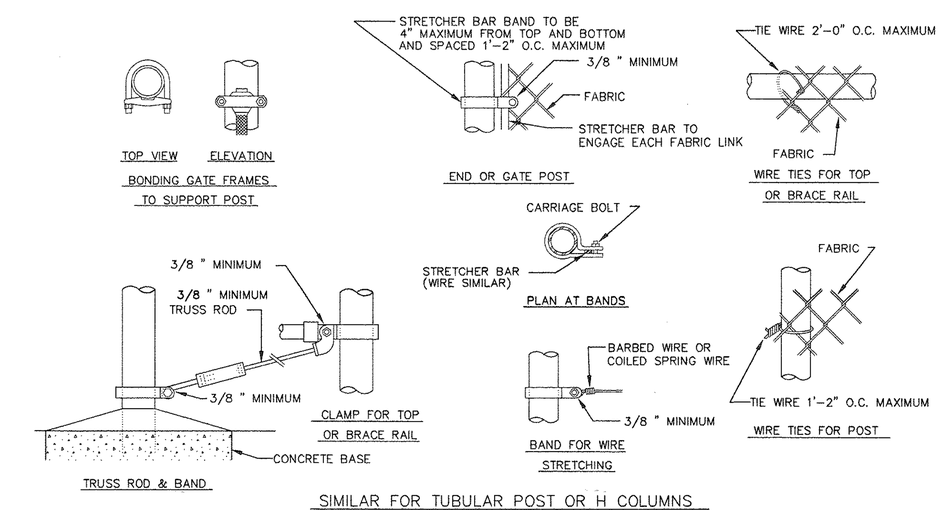
GENERAL NOTES:

1. ALL CHAIN LINK FENCING SHALL COMPLY WITH THE CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLFMI) "PRODUCT MANUAL" AND BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
2. ALL FABRIC SHALL BE #9 GAUGE WIRE, WOVEN IN A 2" MESH WITH TOP AND BOTTOM EDGES TO BE TWISTED AND BARBED.
3. ALL FABRIC SHALL BE PVC COATED STEEL. SEE NOTE 8.
4. ALL POST AND RAIL MATERIAL SHALL BE TYPE I SCHEDULE 40 PIPE, PVC COATED.
5. GATE FRAMES SHALL BE MADE OF 2" TYPE I SCHEDULE 40 PIPE, COATED AS POST AND RAIL MATERIAL, FILLED WITH FABRIC TO MATCH THE LINE OF FENCE. 1
6. HEIGHT OF FENCE FABRIC SHALL BE 6'–0".
7. THE ENTIRE FENCED AREA, INCLUDING ALL GATES, SHALL BE PROVIDED WITH DECORATIVE SLATTING. SLATTING SHALL BE P.D.S. BRAND, SLAT TYPE "L", AS MANUFACTURED BY A&B PLASTICS, INC., 50 W. ARLINGTON ST., YAKIMA, WASHINGTON, 98902 OR ENGINEER APPROVED EQUAL. SLATTING SHALL CARRY A FULL TEN (10) YEAR WARRANTY AGAINST FADING AND BREAKAGE. CONTRACTOR SHALL PROVIDE ALL WARRANTY DOCUMENTS TO THE CITY.
8. CONTRACTOR SHALL PROVIDE A COLOR CHART TO CITY ENGINEER AT LEAST 45 DAYS PRIOR TO INSTALLATION FOR COLOR SELECTION OF PVC COATING ON THE STEEL FABRIC AND THE DECORATIVE SLATTING.



3 TYPICAL BOLLARD DETAIL

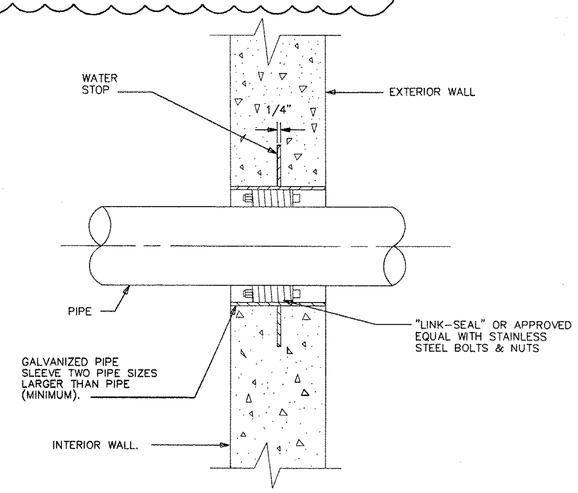
SCALE: NOT TO SCALE



SIMILAR FOR TUBULAR POST OR H COLUMNS

3 FASTENING DETAILS

SCALE: NONE



4 TYPICAL PIPE THRU EXTERIOR WALL – BELOW GRADE DETAIL

SCALE: NOT TO SCALE

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DATE: 2/3/04

STATE OF TEXAS — JOE LEE VEST — REGISTERED PROFESSIONAL ENGINEER — 80062

SANFORD W. CASE 59993 REGISTERED PROFESSIONAL ENGINEER STATE OF TEXAS 10-1-03

NO.	DATE	REVISIONS	APPROVED
1	09/24/03	MODIFIED FENCE NOTES TO INCLUDE DECORATIVE SLATS	

CARTER RANCH - PHASE I

LIFT STATION NO. 1

FENCE & LIFT STATION DETAILS

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

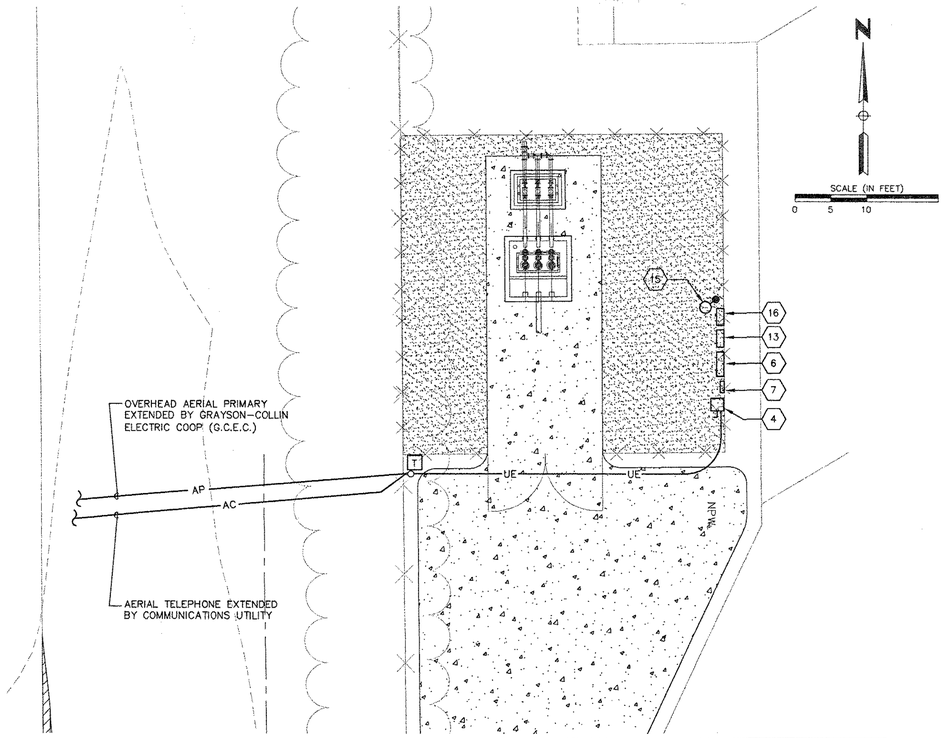
HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

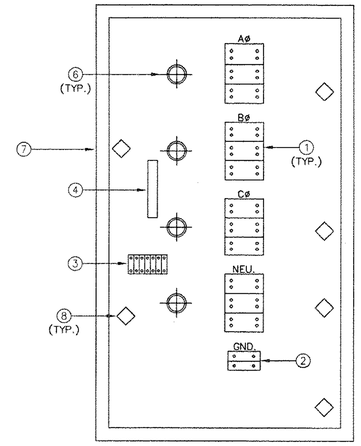
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	APR. 2003			01312222	68

01312223\DD\CARTER RANCH – PHASE I.DWG

P-200304-01



1 SITE PLAN-LIFT STATION
69 SCALE: 1"= 10'-0"



ITEM	NO.	PART NO.	DESCRIPTION
1	4	68092	GOULD SHAWMUT, 3-POLE #4-500MCM DISTRIBUTION BLOCK
2	1	66002	GOULD SHAWMUT, 2-POLE #6-350MCM DISTRIBUTION BLOCK
3	2	62103	GOULD SHAWMUT, 3-POLE #14-#4 AWG, DISTRIBUTION BLOCK
4	1	----	BUCHANAN, 16 POSITION #12 AWG TERMINAL BLOCK
5		----	NOT USED
6	4	----	2 1/2" PVC THROUGH-WALL NIPPLE
7	1	----	HOFFMAN, NEMA 3R ENCLOSURE W/ LOCK, BOTTOM CABLE TRAY ENTRY SLOT, AND 66"Hx36"Wx8"D MINIMUM
8	7	----	CABLE SUPPORT (STRAIN RELIEF) HARDWARE

THESE ITEMS MAY BE SUBSTITUTED WITH APPROVED EQUAL PARTS BY CONTRACTOR

2 GENERATOR CONNECTION BOX
69 SCALE: NOT TO SCALE

GENERAL NOTES

NOTE	DESCRIPTION
1.	ALL CONDUCTORS ARE STRANDED COPPER. #12 THWN AND ALL CONDUITS ARE 3/4" MINIMUM UNLESS NOTED OTHERWISE.
2.	INSTALL CONDUCTOR IN EVERY CONDUIT.
3.	ALL CONDUCTORS, CONDUIT, FITTINGS AND SUPPORTS SHALL BE LISTED AS SUITABLE FOR USE IN WET LOCATIONS.
4.	USE RAINPROOF BOLT-ON HUBS FOR CONDUIT PENETRATIONS TO ALL OUTDOOR ELECTRICAL ENCLOSURES.
5.	PROVIDE CONDUIT SEAL BUSINGS OZ GEDNEY P/N CSB1-150P-1 PENETRATING THE WET WELL WALLS.
6.	ALL UNDERGROUND CONDUIT SHALL BE HEAVY WALL SCHEDULE 40 BURIED 18" BELOW GRADE MINIMUM. ALL ABOVE GROUND CONDUIT SHALL BE GALVANIZED RIGID STEEL. TRANSITION CONDUIT ELBOWS SHALL BE PVC COATED RIGID STEEL.
7.	BOND ALL ENCLOSURES TO GROUND IN ACCORDANCE WITH NEC ARTICLE 250 USING APPROPRIATE CONNECTORS.
8.	USE GROUNDING TYPE INSULATED CONDUIT BUSHINGS FOR ALL CONDUITS 2" OR GREATER. AT LEAST ONE (1) CONDUIT PER EACH SEPARATE ENCLOSURE SHALL BE BONDED TO THE ENCLOSURE WITH A GROUNDING TYPE INSULATED BUSHING AND GROUND CONDUCTOR.
9.	PROVIDE NAMEPLATES FOR ALL PUMP CONTROL PANEL INTERIOR COMPONENTS AND CONTROL RELAYS. PROVIDE WIRE NUMBERS AT BOTH ENDS OF THE WIRE AND ON THE TERMINAL BLOCK.
10.	FOR MOUNTING PANELS, FABRICATE METAL FRAME RACK AND SECURE TO GROUND IN CONCRETE. BOND RACK TO SERVICE GROUND.
11.	PROVIDE PULL LINE IN EMPTY CONDUIT.
12.	ALL MOTOR FEEDER CIRCUIT BREAKERS ARE EITHER INVERSE-TIME OR MCP TYPE.
13.	MOTORS, LEVEL SWITCHES AND FLEXIBLE CORDS LOCATED IN THE WET WELL MUST BE LISTED FOR USE IN A HAZARDOUS ENVIRONMENT. CONDUIT SEALS SHALL BE USED FOR ALL CONDUITS PENETRATING THE WET WELL AND FLEXIBLE CORDS MUST BE APPROVED FOR EXTRA-HARD USAGE IN ACCORDANCE WITH NEC ARTICLE 501 FOR HAZARDOUS LOCATIONS.
14.	MINIMUM CIRCUIT SIZE SHALL BE 2 #12, #12GND.,-3/4"C. UNLESS OTHERWISE NOTED.

NOTES BY SYMBOL

NOTE	DESCRIPTION
1.	PROVIDE 3 #3/0, #4GND.,-2" CONDUIT TO UTILITY POLE. LEAVE SLACK WIRE AS REQUIRED BY THE UTILITY COMPANY. TERMINATE CONDUIT AS DIRECTED BY G.C.E.C.
2.	PROVIDE 3 #3/0, #4GND.,-2"CONDUIT.
3.	PROVIDE #4 GROUND WIRE TO COPPER CLAD STEEL GROUND WIRE.
4.	PROVIDE 200 AMPERE, 3 POLE, 250 VAC HEAVY DUTY NEMA 3R FUSED SAFETY SWITCH FOR SERVICE DISCONNECT SWITCH.
5.	INSTALL POWER COMPANY METER SOCKET AS REQUIRED.
6.	INSTALL HOFFMAN CAT. #A-62H48CLP NEMA 4, 2-DOOR CABINET. PROVIDE 3 - ALLEN BRADLEY BULLETIN 513 NEMA SIZE 1 COMBINATION STARTERS, 100 AMPERE, 120/240V., 1 PHASE PANELBOARD WITH 12-20AMP., 1 POLE CIRCUITS AND INSTALL LIQUID LEVEL CONTROLLER/ PUMP ALTERNATOR AND TELEPHONE DIALER. REFER TO DETAIL 5/69.
7.	TRANSIENT VOLTAGE SURGE SUPPRESSOR. PROVIDE CURRENT TECHNOLOGY MODEL SEL 300-120/240-29-DM OR APPROVED EQUAL. MOUNT EXTERNAL TO CONTROL PANEL. CONNECT TO 100A-2P BREAKER IN CONTROL PANEL WITH 3 #2, #6GND.,-1"C.
8.	PROVIDE ALARM DIALER EQUAL TO SENSAPHONE EXPRESS II OR APPROVED EQUAL. CONNECT TO LEVEL CONTROLLER AS REQUIRED . CONNECT TO TELEPHONE AS REQUIRED. MONITOR WET WELL LEVELS, HIGH LEVEL, PUMP FAILURE, LOSS OF POWER AND LOSS OF COMMUNICATIONS.
9.	LIFT STATION LEVEL CONTROL/PUMP ALTERNATOR BY LIFT STATION EQUIPMENT SUPPLIER. INSTALL IN PANEL. CONNECT TO LEVEL SENSOR AND MOTOR STARTERS AS REQUIRED.
10.	150 WATT STRIP HEATER AND LINE VOLTAGE HUMIDISTAT INSTALLED IN FLOOR OF CONTROL CABINET. SET HUMIDISTAT TO TURN ON AT 80 PERCENT HUMIDITY. HEATER SHALL BE VULCAN NO. OS120B-150A. HUMIDISTAT SHALL BE HONEYWELL NO. HA6C1000.
11.	SUBMERISBLE 7-CONDUCTOR MOTOR CABLES SHALL BE PROVIDED BY LIFT STATION MOTOR MANUFACTURER. INSTALL IN 2" CONDUIT.
12.	10 CORE CABLE FOR LEVEL SENSOR FURNISHED BY LIFT STATION SUPPLIER. INSTALL IN 2"C. BACK TO CONTROL PANEL AND CONNECT TO LEVEL CONTROLLER AS REQUIRED.
13.	INSTALL MANUAL 225 AMPERE, 2 POLE TRANSFER SWITCH. PROVIDE RUSSELECTRIC RMT-MAN 225ZE IN NEMA 3R OR NEMA 4 ENCLOSURE OR APPROVED EQUAL.
14.	DUPLEX RECEPTACLE INSTALLED IN CAST METAL WEATHERPROOF BOX. PROVIDE COMPLETE WITH TAYMAC #20550 LOCKING COVER.
15.	PROVIDE POLE MOUNTED LIGHTING FIXTURE. FIXTURE SHALL BE LITHONIA #KSF1R3120WW09 PER/PE1 OR EQUAL. COMPLETE WITH 250 WATT CLEAR SUPER METAL HALIDE LAMP AND PHOTOCELL. INSTALL AT 20' ABOVE GROUND LEVEL ON 30' CLASS 4 TREATED WOOD UTILITY POLE. REFER TO DETAIL 3/69.
16.	GENERATOR CONNECTION BOX FOR ROLL-UP PORTABLE GENERATOR SET. REFER TO DETAIL 2/69 ON THIS SHEET.
17.	PROVIDE APC MODEL BR500I UPS SYSTEM TO POWER LEVEL CONTROLLER/PUMP ALTERNATOR.
18.	PROVIDE AMBER STROBE LIGHT CONNECTED TO ALARM OUTPUT OF DIALER. PROVIDE SQUARE D CAT. #XUBC8G8 PLUS MOUNTING ACCESSORIES.

1

LEGEND

SYMBOL	DESCRIPTION
—AC—	AERIAL TELEPHONE
—UE—	UNDERGROUND ELECTRIC BY CONTRACTOR
	MOTOR OVERLOAD
	CIRCUIT BREAKER
H	HUMIDISTAT
T	POLE MOUNTED TRANSFORMER
	LIGHT FIXTURE

RECORD DRAWING

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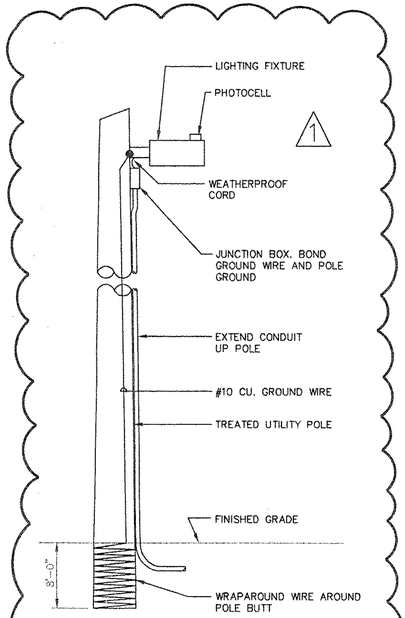
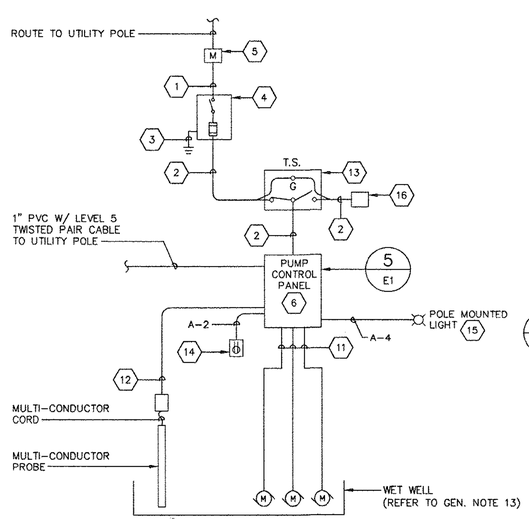
STATE OF TEXAS
OCIE LEE VEST
80062
REGISTERED PROFESSIONAL ENGINEER

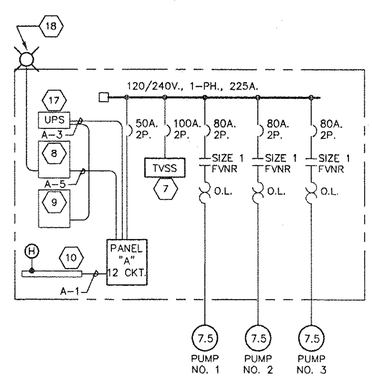
DATE: 2/3/04



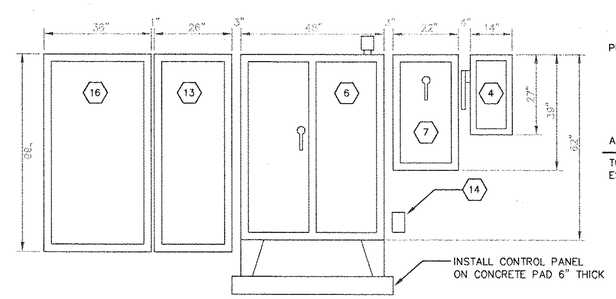
3 YARD LIGHTING DETAIL
69 SCALE: NOT TO SCALE



4 POWER RISER DIAGRAM
69 SCALE: NOT TO SCALE



5 PUMP CONTROL PANEL - SINGLE LINE DIAGRAM
69 SCALE: NOT TO SCALE



6 LIFT STATION CONTROL PANEL ELEVATION
69 SCALE: 1/2" = 1'-0"

NOTE :
PROVIDE UNISTRUT FRAME TO INSTALL ALL NON-FREE STANDING EQUIPMENT.

CONNECTED LOAD SUMMARY

PUMP CONTROL PANEL

MOTORS (2) 7.5HP	40FLA EA. @ 240V.	VA (INCLUDING 125% LARGEST MOTOR)	= 21,600
CONTROLS			= 500
GFCI RECEPTACLE/LIGHT			= 1,000
ACCESSORY PANELS			= 1,500
TOTAL VA			= 24,600
ESTIMATED DEMAND (AMPS)			= 103

NONCOINCIDENT LOAD PER NEC ART. 220-21, ONLY 2 PUMPS RUNNING DURING NORMAL OPERATION.

MINIMUM SIZE STANDBY GENERATOR IS 50KW (62.5KVA)

STATE OF TEXAS
RICHARD L. DICKERSON
69306
REGISTERED PROFESSIONAL ENGINEER
10/2/03

NO.	DATE	REVISIONS	APPROVED
1	09/24/03	REVISED LIGHT FIXTURE DETAIL AND CALLOUT	

CARTER RANCH - PHASE I

LIFT STATION PLAN

CENTURION AMERICAN DEVELOPMENT GROUP

CELINA, TEXAS

HUITT-ZOLLARS

Huitt-Zollars, Inc. Dallas
3131 McKinney Avenue, Suite 600
Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HZI	HZI	AUGUST 2003	1"=10'		01312222	69

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