

PLANS FOR THE CONSTRUCTION OF  
PAVING, STORMWATER, WATER, WASTEWATER,  
SIGNALIZATION AND STREETScape IMPROVEMENTS FOR

# ARAPAHO ROAD

FROM ADDISON ROAD TO DALLAS NORTH TOLLWAY

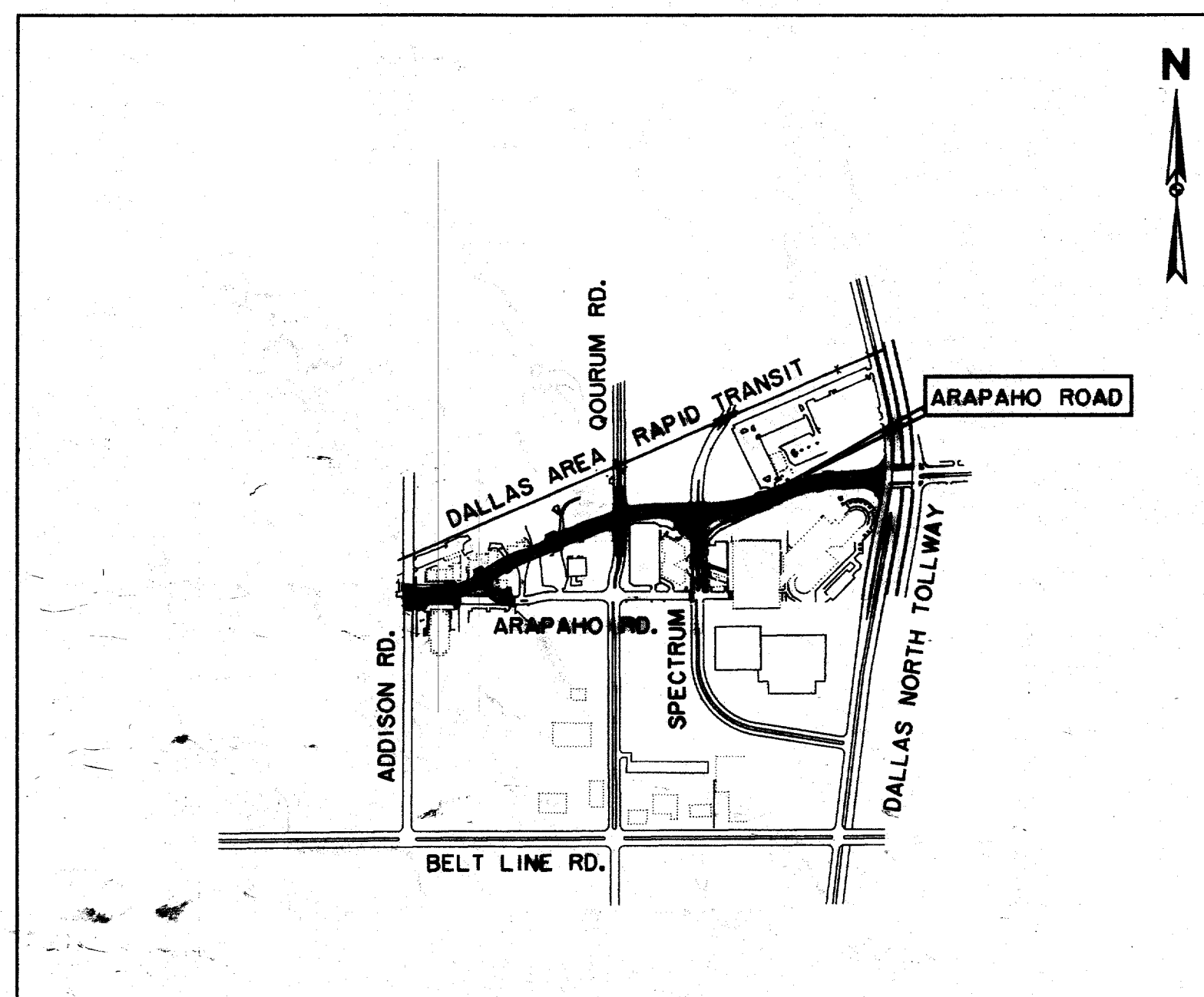


T O W N O F  
**ADDISON**

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

SHEET NO.	INDEX OF DRAWINGS
	COVER SHEET
Q-1 to Q-4	QUANTITY SHEETS
R-1 to R-3	RIGHT-OF-WAY PLANS
D-1 to D-3	DEMOLITION PLANS
CS-1 to CS-7	CONSTRUCTION SEQUENCING PLANS
P-1 to P-2	PAVING TYPICAL SECTIONS
P-3 to P-14	PAVING PLANS, PROFILES & DETAILS
P-15	RETAINING WALL PLAN, PROFILE & DETAIL
P-16 to P-19	STRIPING PLANS
ST-1	DRAINAGE AREA MAP
ST-2 to ST-5	STORMWATER CALCULATIONS
ST-6 to ST-17	STORMWATER PLANS, PROFILES & DETAILS
W-1 to W-11	WATER & WASTEWATER PLAN/PROF. & DET.
S-1 to S-14	SIGNALIZATION PLANS & DETAILS
X-1 to X-10	CROSS SECTIONS
LA-1 to LA-7	LANDSCAPE LAYOUT PLANS
LC-1 to LC-4	LANDSCAPE CONSTRUCTION DETAILS
PL-1 to PL-7	PLANTING PLANS & DETAILS
IR-1 to IR-6	IRRIGATION PLANS
SE-1 to SE-6	SITE-ELECTRICAL PLANS



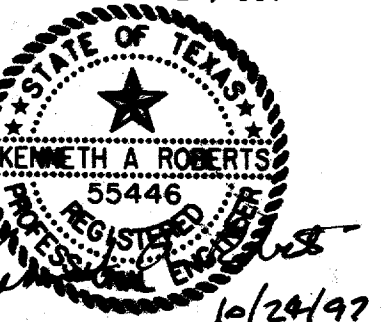
LOCATION MAP

OWNER:  
TOWN OF ADDISON  
DEPARTMENT OF PUBLIC WORKS  
16801 WESTGROVE  
P.O. BOX 144  
ADDISON, TEXAS 75001  
(972) 450-7018

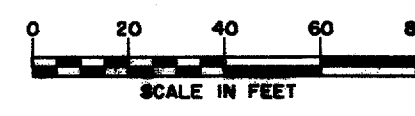
ENGINEER:  
HUITT-ZOLLARS, INC.  
3131 MCKINNEY AVE., SUITE 600  
DALLAS, TEXAS 75204  
(214) 871-3311

LANDSCAPE ARCHITECT:  
MESA DESIGN GROUP  
3100 MCKINNON ST., SUITE 905  
DALLAS, TEXAS 75201  
(214) 871-0568

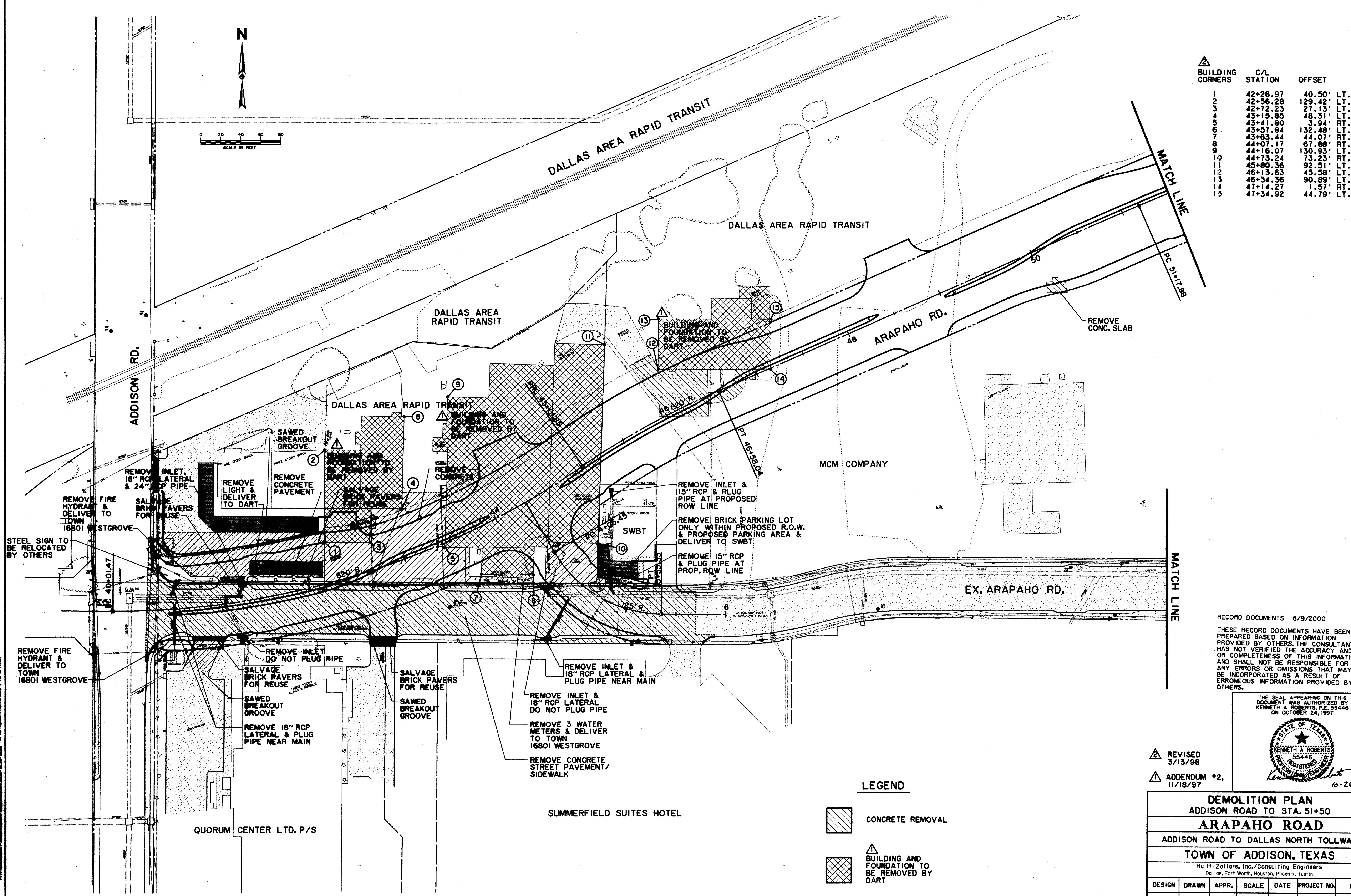
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997.



ARAPAHO ROAD



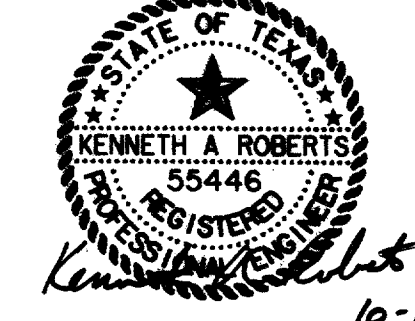
BUILDING CORNERS	C/L STATION	OFFSET	
1	42+26.97	40.50'	LT.
2	42+56.28	129.42'	LT.
3	42+72.23	27.13'	LT.
4	43+15.85	48.31'	LT.
5	43+41.80	3.94'	RT.
6	43+57.84	132.48'	LT.
7	43+63.44	44.07'	RT.
8	44+07.17	67.86'	RT.
9	44+16.07	130.93'	LT.
10	44+73.24	73.23'	RT.
11	45+80.36	92.51'	LT.
12	46+13.63	45.58'	LT.
13	46+34.36	90.89'	LT.
14	47+14.27	57.57'	RT.
15	47+34.92	44.79'	LT.



RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



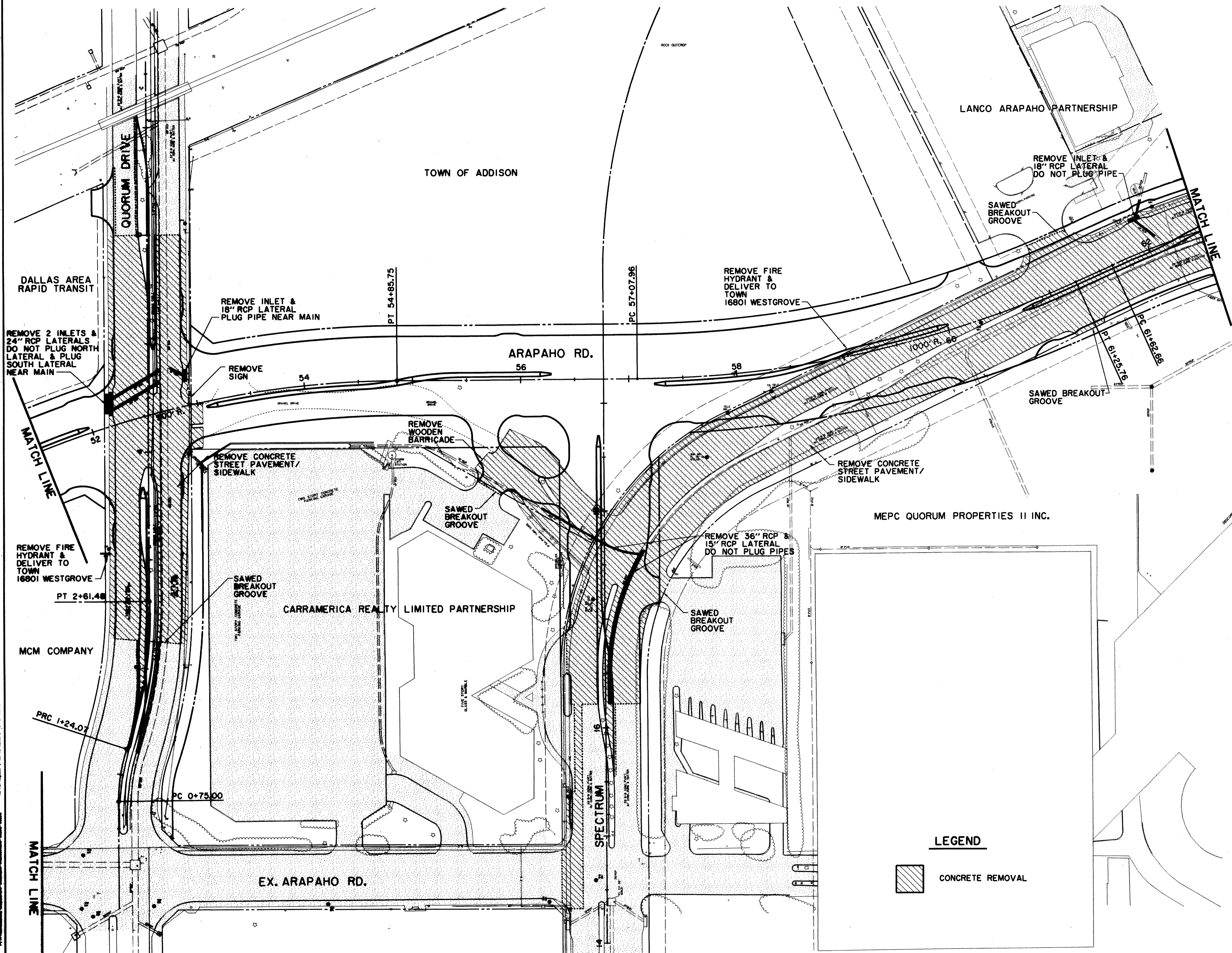
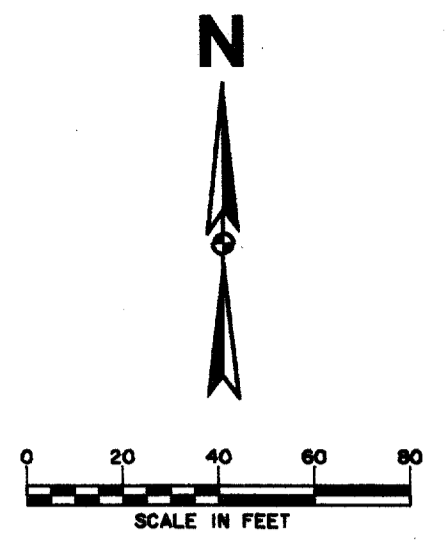
REVISD 3/13/98

ADDENDUM #2. 11/18/97

**LEGEND**

- CONCRETE REMOVAL
- BUILDING AND FOUNDATION TO BE REMOVED BY DART

<b>DEMOLITION PLAN</b>						
ADDISON ROAD TO STA. 51+50						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
<b>TOWN OF ADDISON, TEXAS</b>						
<small>Hull-201ars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin</small>						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=40'	OCT 97	1772-01	D-1

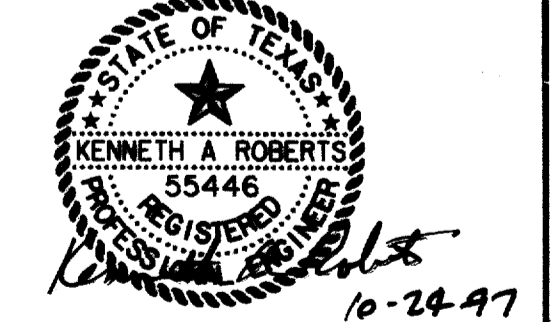


ALL DIMENSIONS SHOWN ARE UNLESS OTHERWISE NOTED.  
 ALL CONCRETE SHALL BE SAWED TO A MINIMUM DEPTH OF 6\"/>

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

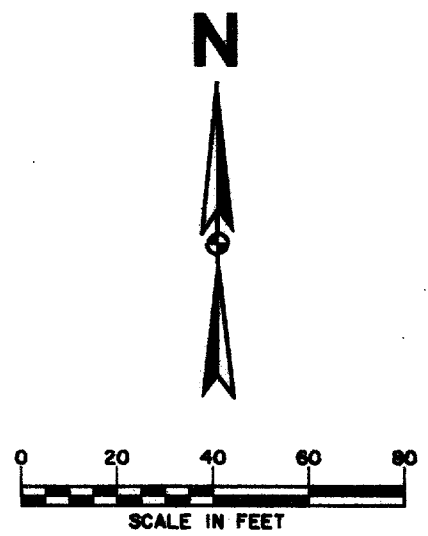
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



**LEGEND**

CONCRETE REMOVAL

<b>DEMOLITION PLAN</b> STA. 51+50 TO STA. 62+50 <b>ARAPAHO ROAD</b> ADDISON ROAD TO DALLAS NORTH TOLLWAY TOWN OF ADDISON, TEXAS Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=40'	OCT 97	1772-01	D-2



LANCO ARAPAHO PARTNERSHIP

CHATTAHOOCHEE LEASING CORPORATION

MATCH LINE

REMOVE CONCRETE STREET PAVEMENT/SIDEWALK

ARAPAHO RD.

REMOVE INLET & 18" RCP LATERAL DO NOT PLUG PIPE

REMOVE FIRE HYDRANT & DELIVER TO TOWN 16801 WESTGROVE

PC 66+51.52

PT 66+85.39

SAWED BREAKOUT GROOVE

68

REMOVE INLET DO NOT PLUG PIPE

PT 64+35.91

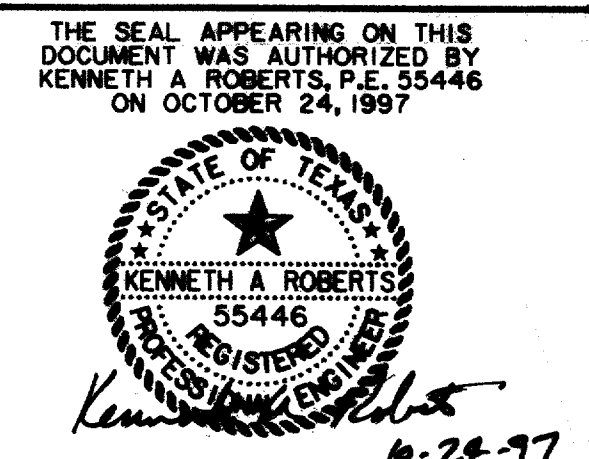
REMOVE INLET & 21" RCP LATERAL DO NOT PLUG PIPE

REMOVE INLET & 18" RCP LATERAL PLUG PIPE NEAR MAIN

DALLAS NORTH TOLLWAY

MEPC QUORUM PROPERTIES II INC.

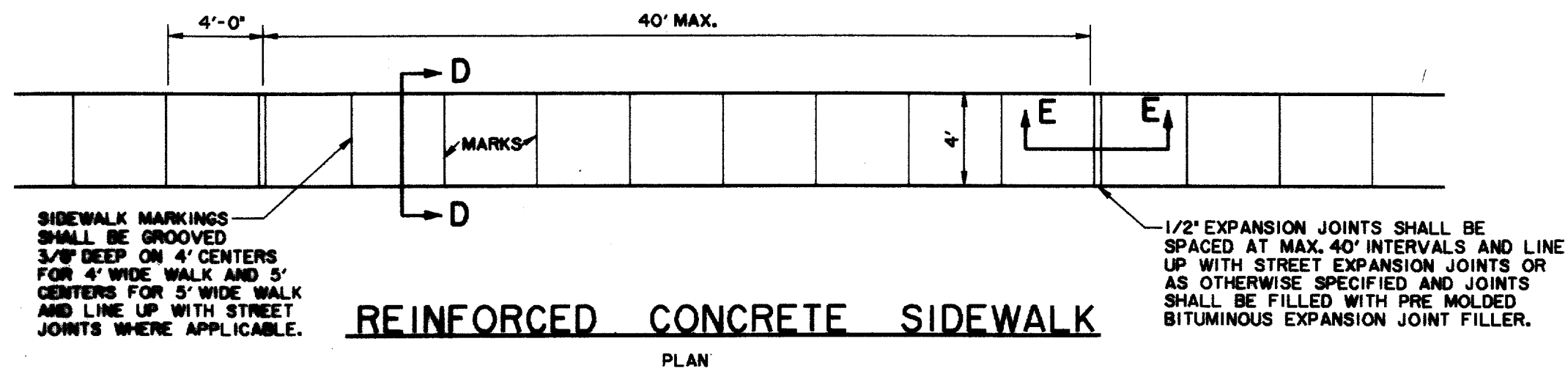
RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



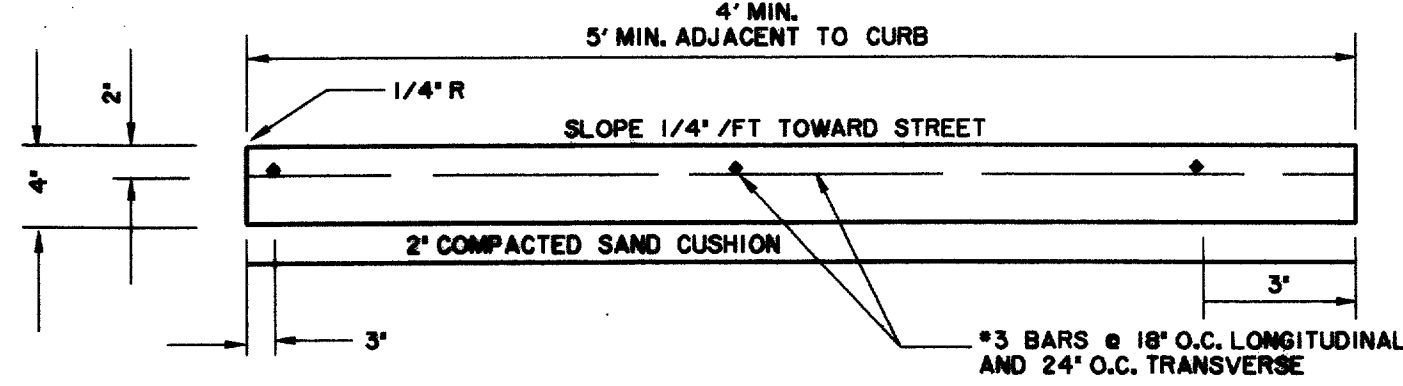
LEGEND

 CONCRETE REMOVAL

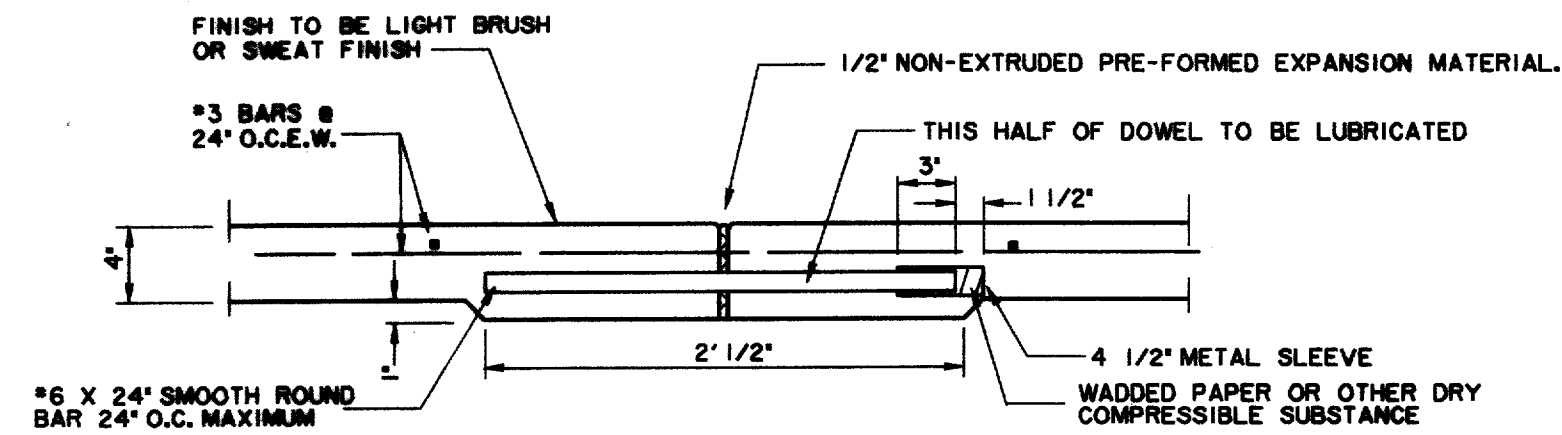
DEMOLITION PLAN						
STA. 62+50 TO DALLAS NORTH TOLLWAY						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=40'	OCT 97	1772-01	D-3



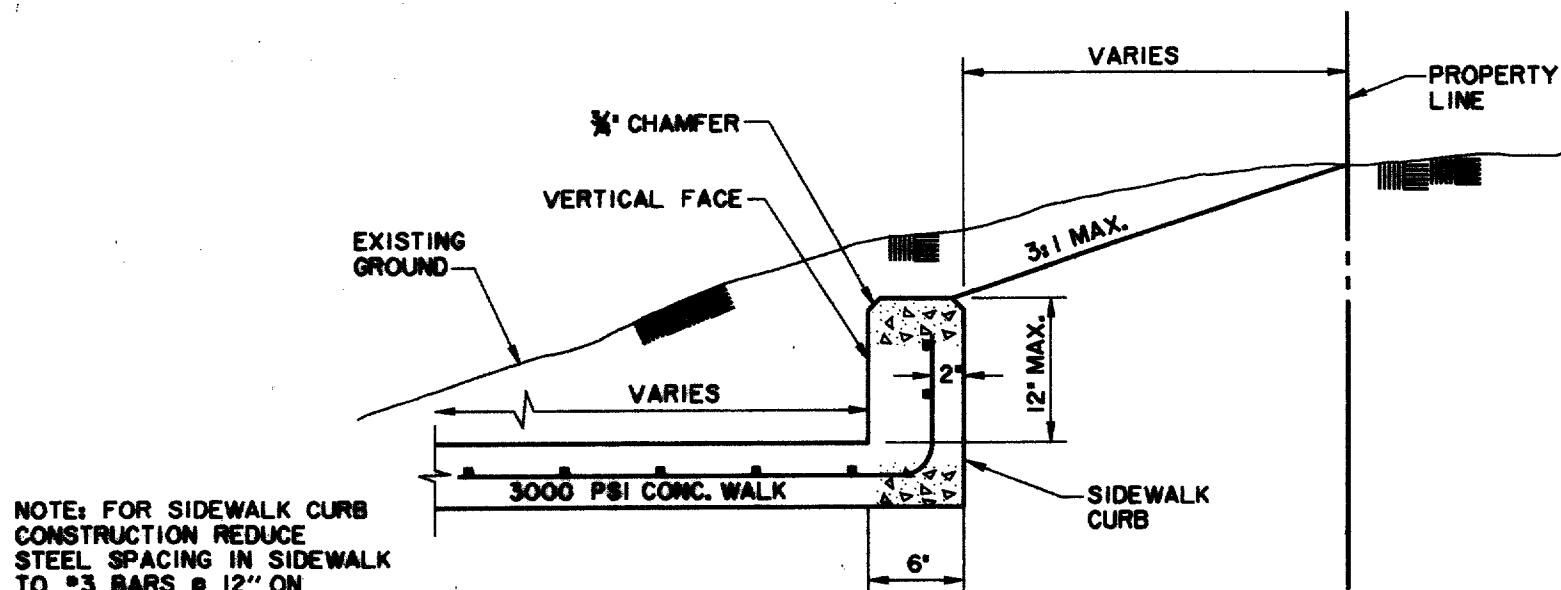
NOTE: CONCRETE TO HAVE MINIMUM 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS AND MINIMUM CEMENT CONTENT OF 5 BAGS PER CUBIC YARD OF CONCRETE.



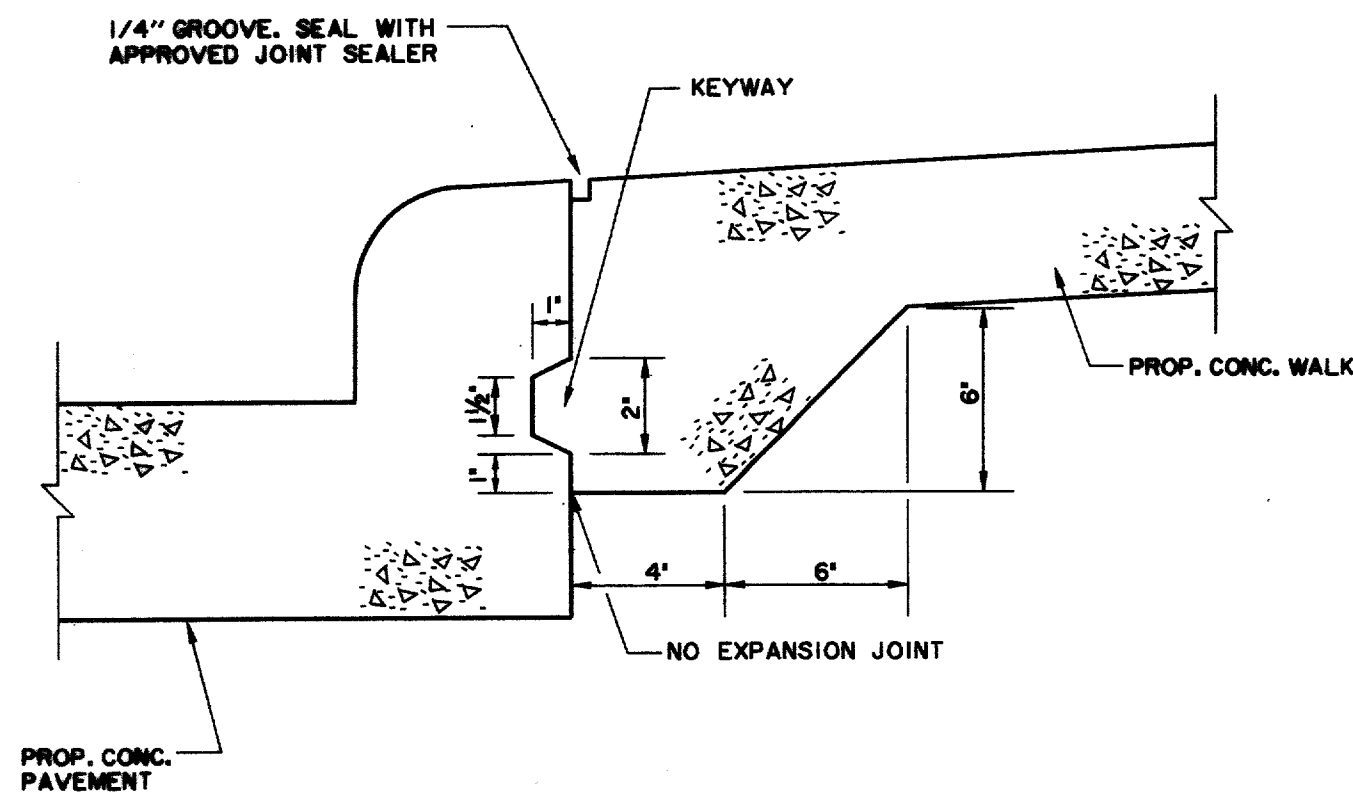
SECTION D-D  
TYPICAL SECTION



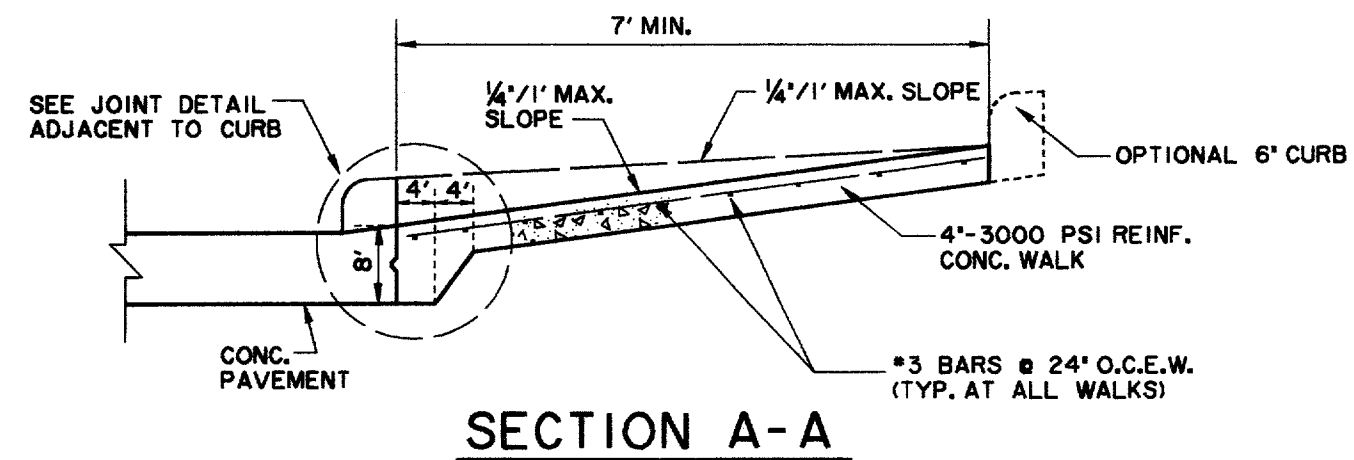
SECTION E-E  
EXPANSION JOINT DETAIL



SIDEWALK CURB DETAIL

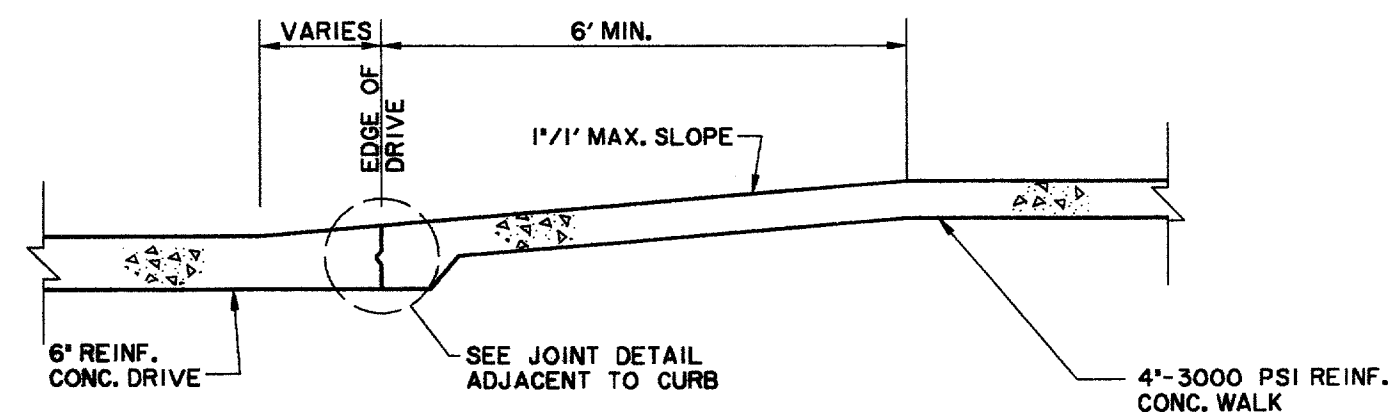


JOINT DETAIL FOR SIDEWALK  
ADJACENT TO PROPOSED PAVEMENT

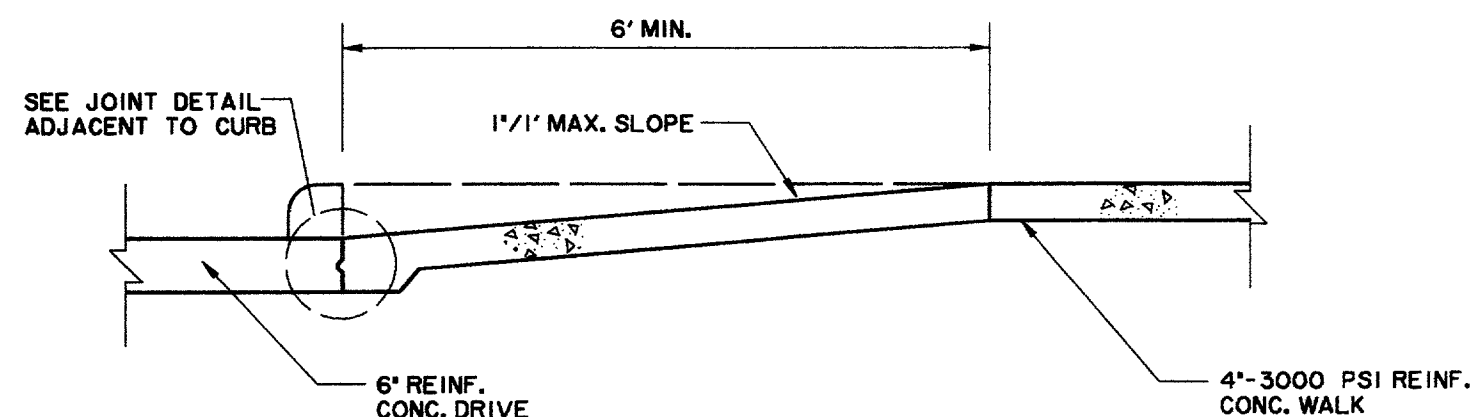


SECTION A-A

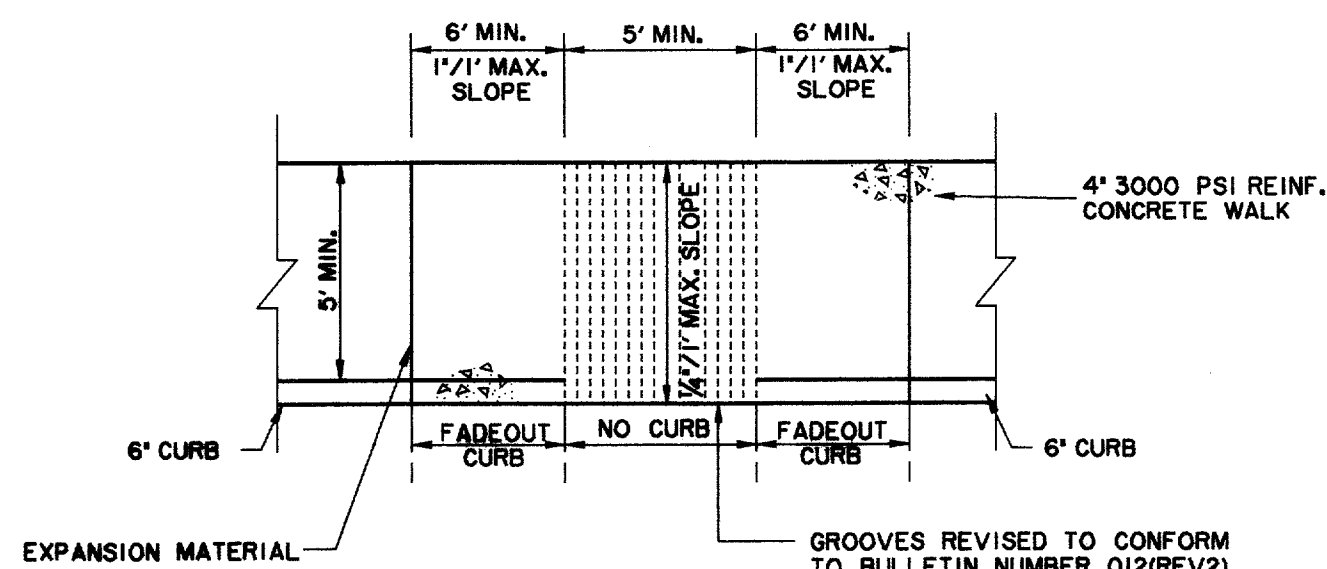
NOTES:  
1. ALL HONEYCOMB IN BACK OF CURB TO BE TROWEL-PLASTERED BEFORE POURING SIDEWALK  
2. LUG MAY BE FORMED BY SHAPING SUBGRADE TO APPROXIMATE DIMENSIONS SHOWN.



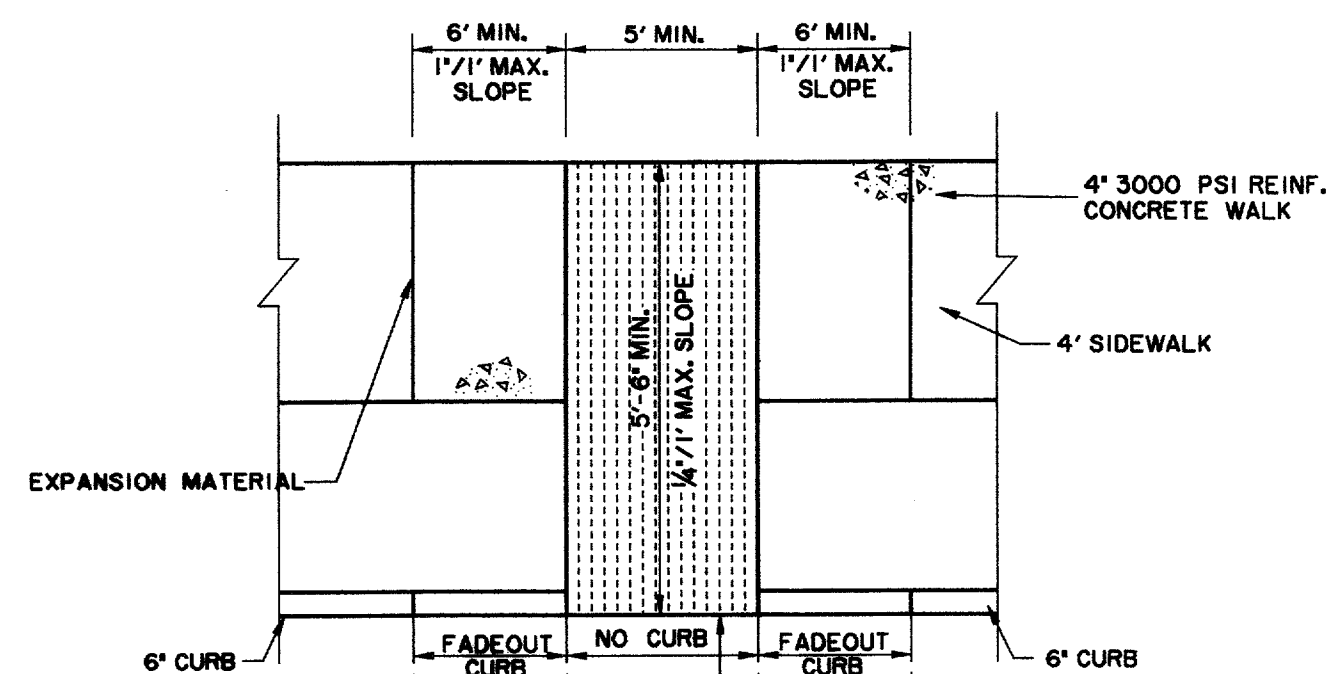
SECTION B-B



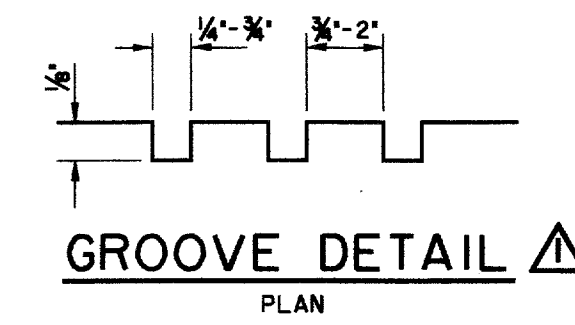
SECTION C-C



BARRIER FREE RAMP IN STRAIGHT CURB  
SIDEWALK ADJACENT TO CURB

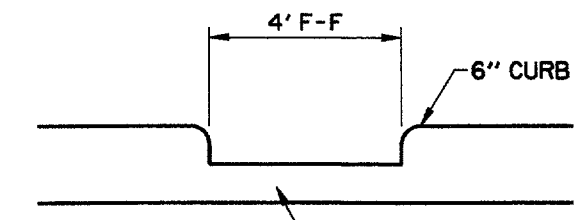


BARRIER FREE RAMP IN STRAIGHT CURB  
SIDEWALK AWAY FROM CURB

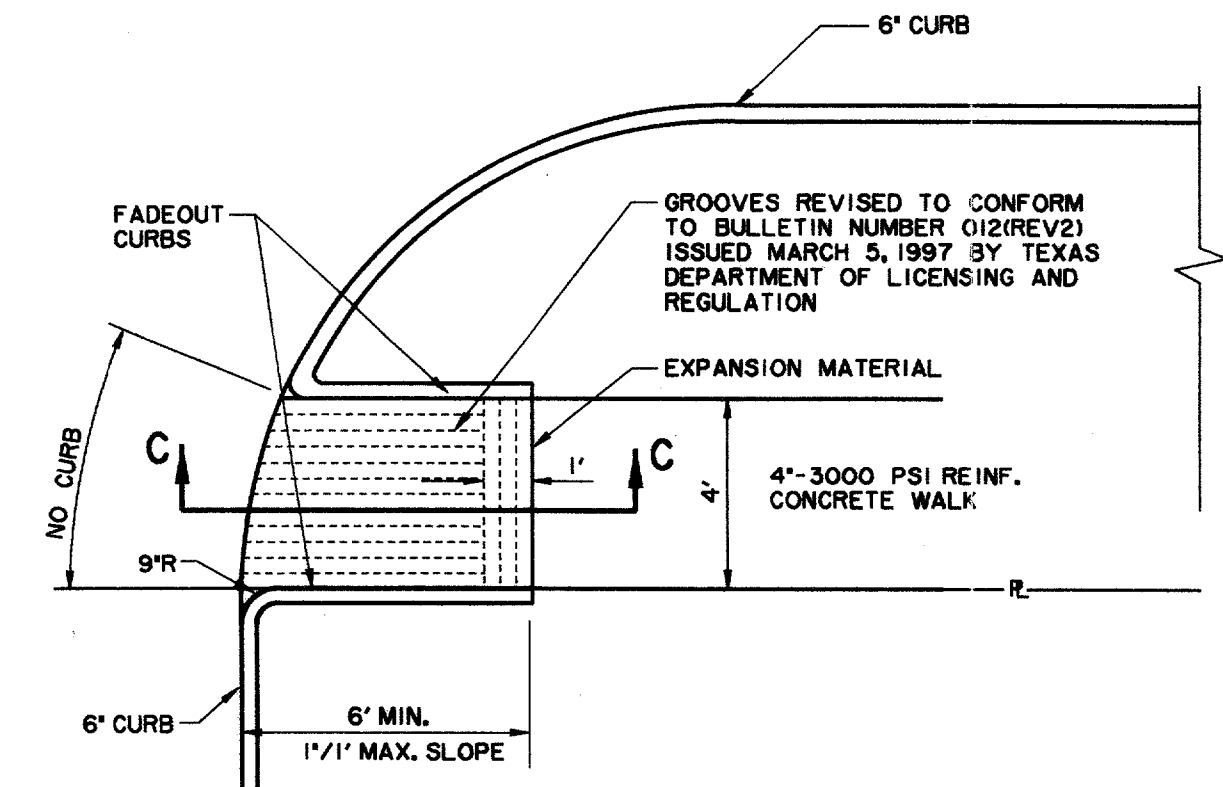


GROOVE DETAIL  
PLAN

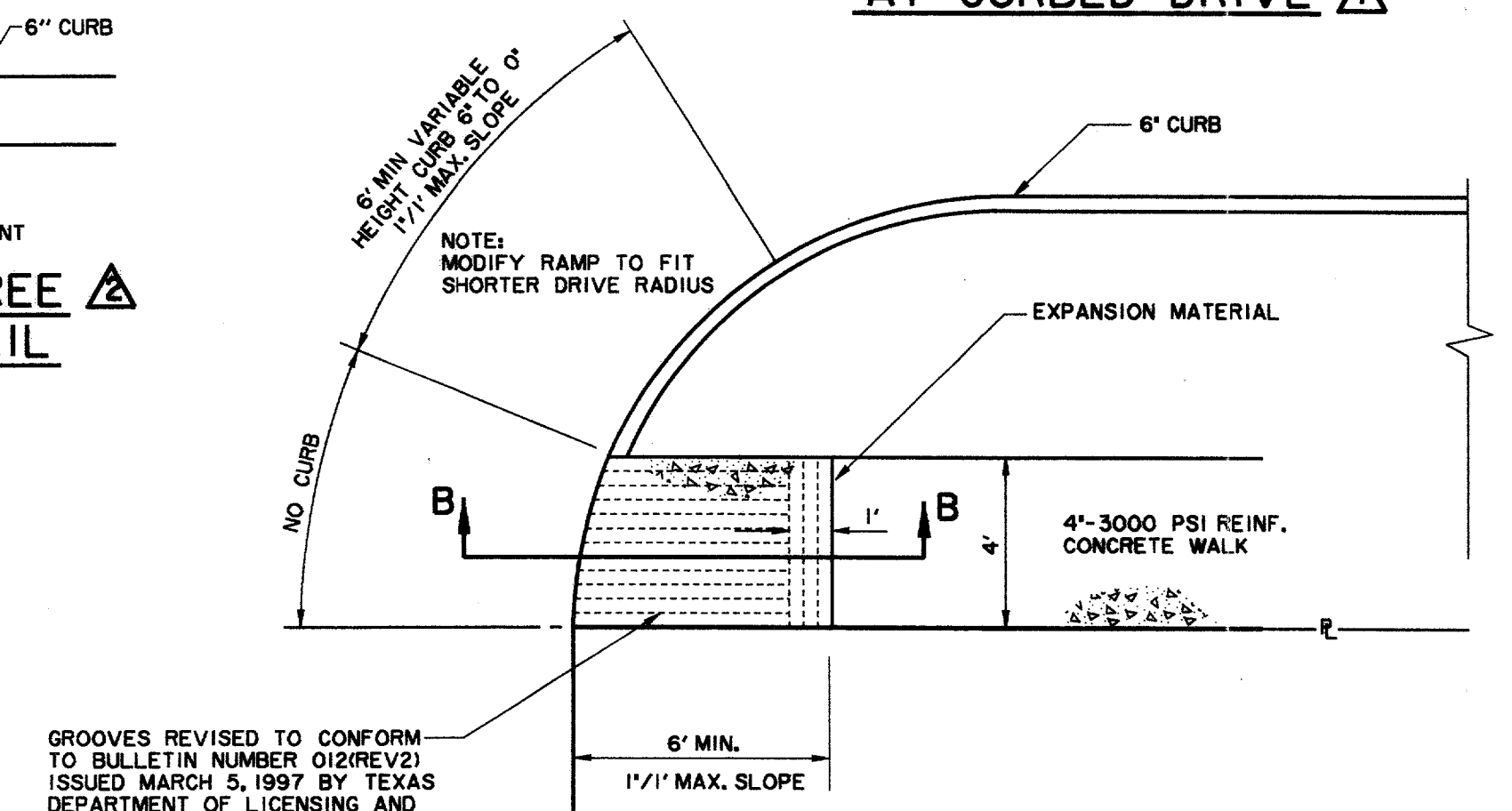
NOTE:  
ENTIRE BARRIER FREE RAMP AREA TO HAVE GROOVED TEXTURE.



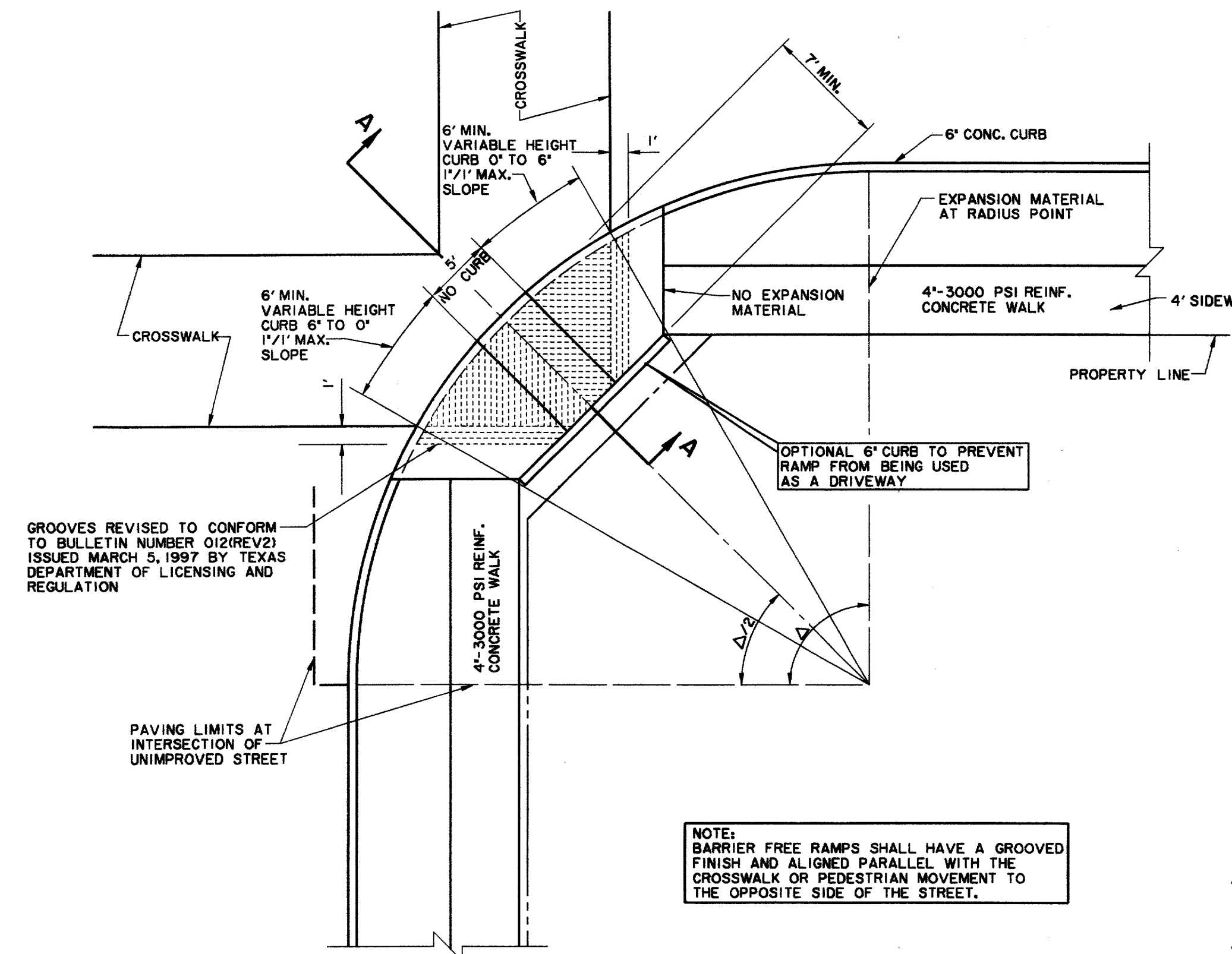
BARRIER FREE  
WALK DETAIL



BARRIER FREE RAMP  
AT CURBED DRIVE



BARRIER FREE RAMP  
AT DRIVE

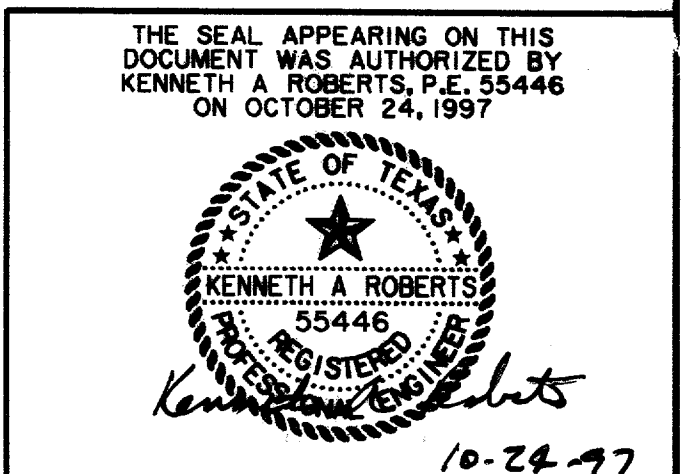


BARRIER FREE RAMP DETAIL  
AT INTERSECTING STREET

BARRIER FREE RAMP  
GENERAL NOTES

1. MAXIMUM SLOPE ON BARRIER FREE RAMPS MUST NOT EXCEED ONE INCH PER FOOT AT ANY LOCATION.
2. DESIGNS SHOWN ARE FOR 6\"/>

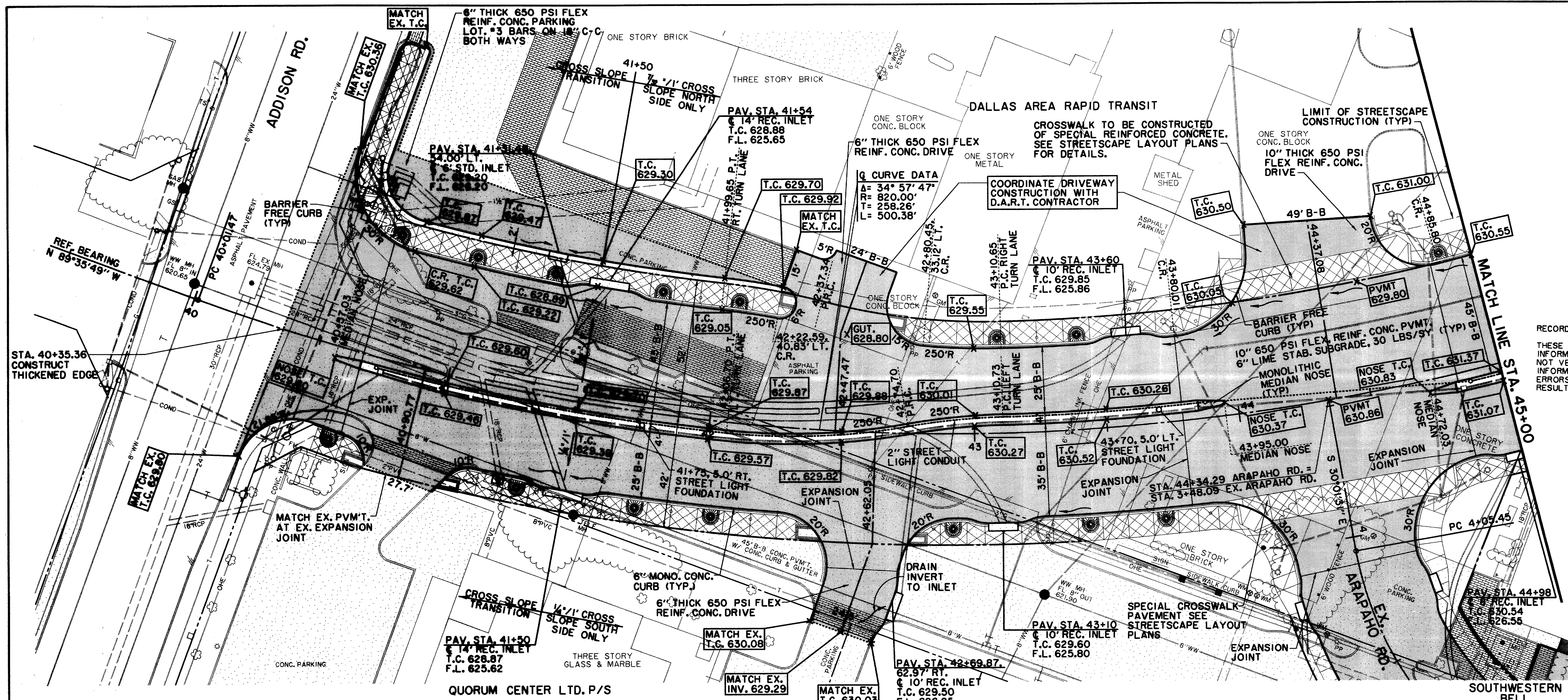
REVISÉ  
1/16/98  
ADDENDUM #2,  
11/18/97



SIDEWALK & B.F. RAMP DETAILS						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	N.T.S.	OCT 97	1772-01	P-14

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

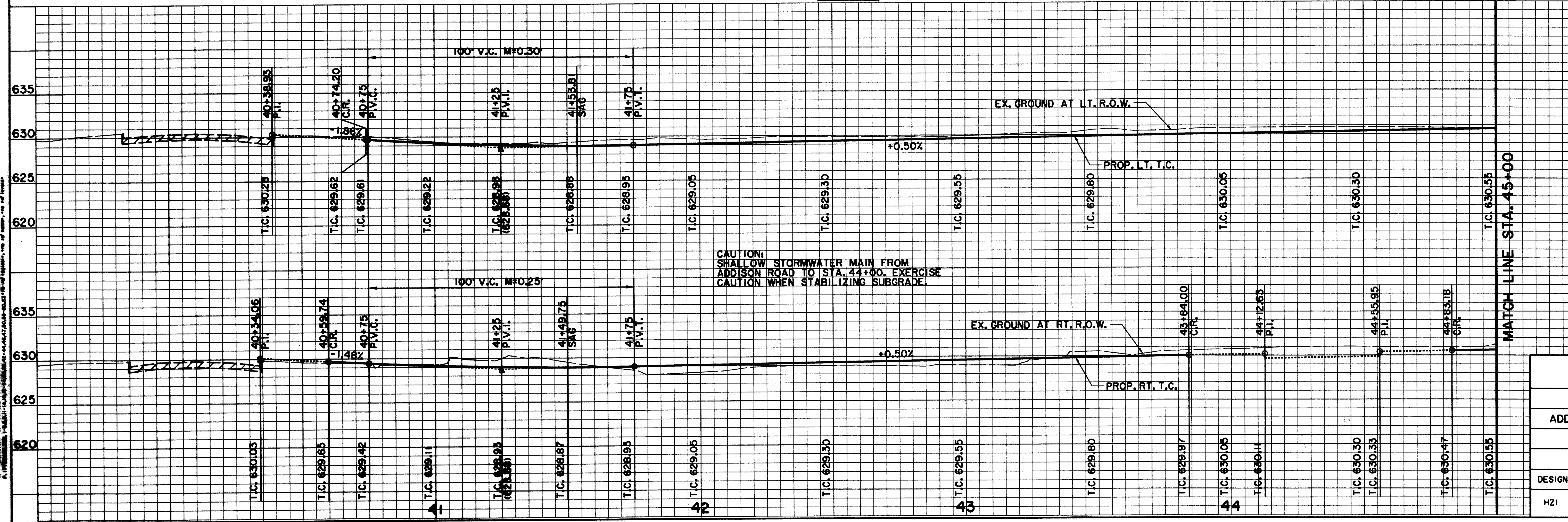


SEE STREETSCAPE PLANS FOR SIDEWALK, LANDSCAPING, IRRIGATION, LIGHTING AND PAVEMENT ENHANCEMENT DETAILS.

RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

**LEGEND**

ELECTRIC — OHE	WATER — W
○ LIGHT POLE	FH FIRE HYDRANT
PP POWER POLE	WM METER
— GUY WIRE	T WATER VALVE
TELEPHONE — T	48" RCP MISC.
TELEPHONE MANHOLE	X X X R.C.P. REMOVAL
TELEPHONE PEDESTAL	CHAIN LINK FENCE
TS TELEPHONE SIGN	WOOD FENCE
GAS — G	EXISTING ASPHALT
GM GAS METER	EXISTING DIRT OR GRAVEL
GS GAS SIGN	EX. CONCRETE
LAND USE	TREE/TREE LINE
R/R RAILROAD SIGN	EXISTING CURB
⊙ SIGN	PROP. CURB
SURVEY	EX. PROPERTY LINE
FI FOUND IRON ROD	PROP. CENTERLINE
TEMP BENCHMARK	PROP. R.O.W.
WASTEWATER — WW	PROP. INLET
WM WASTEWATER MANHOLE	PROP. R.O.W.
CO CLEANOUT	PVMT TOP OF PAVEMENT
	T.C. TOP OF CURB
	C.R. CURB RETURN

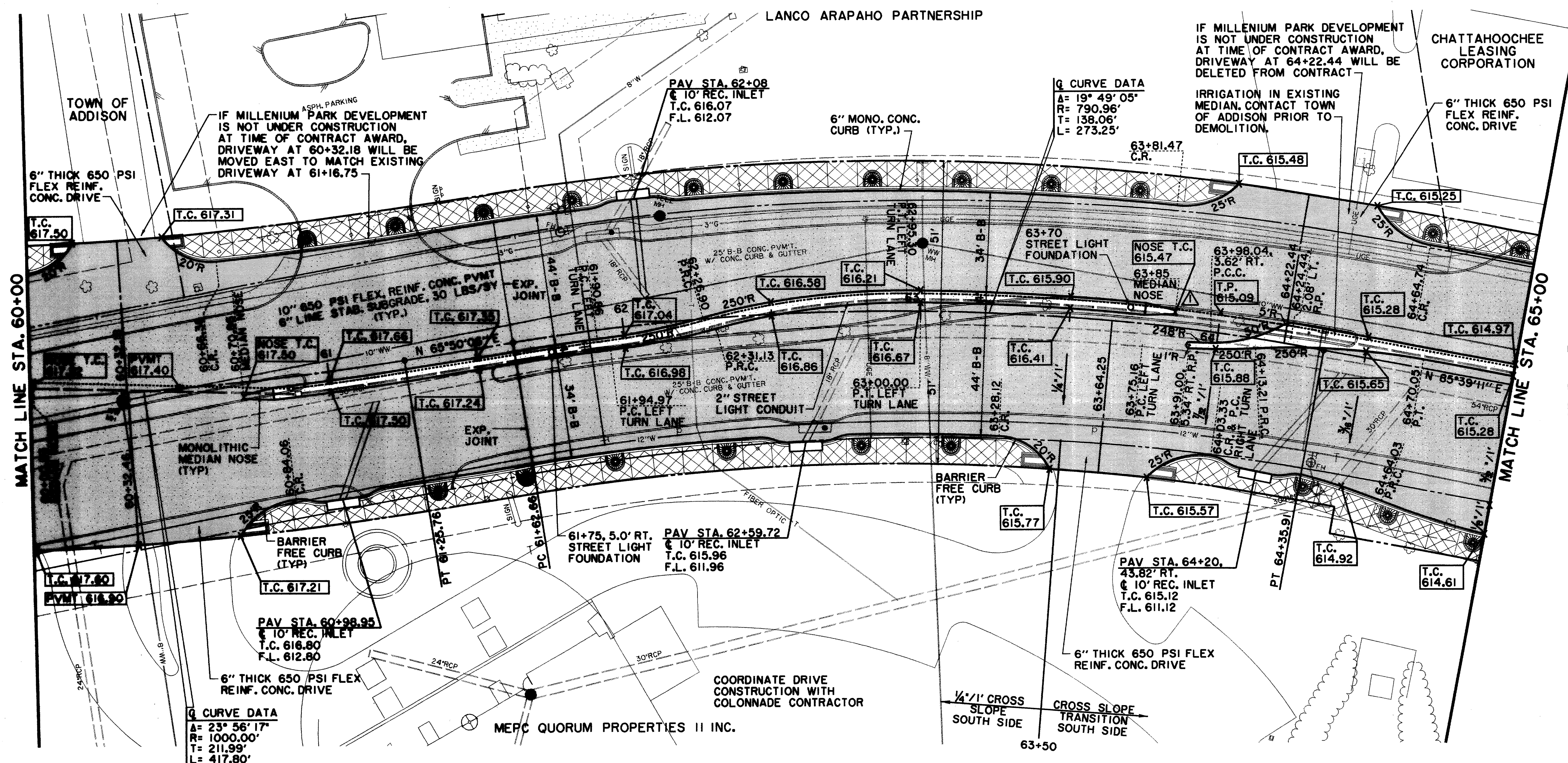


**BENCHMARKS:**  
 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND, ELEV. 650.61  
 "I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD, ELEV. 630.61  
 THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

**PAVING PLAN & PROFILE**  
 ADDISON ROAD TO STA. 45+00  
**ARAPAHO ROAD**  
 ADDISON ROAD TO DALLAS NORTH TOLLWAY  
 TOWN OF ADDISON, TEXAS  
 Huitt-Zollars, Inc./Consulting Engineers  
 Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
H21	H21	KAR	H <sub>v</sub> 1"=20' V <sub>1</sub> 1"=6'	OCT 97	1772-01	P-3

ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND DECIMALS THEREOF.  
 ALL ELEVATIONS UNLESS OTHERWISE NOTED ARE IN FEET ABOVE MEAN SEA LEVEL.  
 ALL STATIONING UNLESS OTHERWISE NOTED IS IN STATIONS ALONG THE CENTERLINE OF THE ROAD.  
 ALL UTILITY LOCATIONS UNLESS OTHERWISE NOTED ARE AS SHOWN ON THE PLAN.  
 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC WORKS, TEXAS EDITION, 2000.  
 ALL MATERIALS SHALL BE AS SHOWN ON THE PLAN OR AS APPROVED BY THE ENGINEER.  
 ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC WORKS, TEXAS EDITION, 2000.  
 ALL UTILITIES SHALL BE PROTECTED AND DEEPENED AS NECESSARY.  
 ALL EXISTING UTILITIES SHALL BE REPAIRED OR REPLACED AS NECESSARY.  
 ALL CONSTRUCTION SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.  
 ALL MATERIALS SHALL BE TESTED AND APPROVED BY THE ENGINEER.  
 ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC WORKS, TEXAS EDITION, 2000.  
 ALL UTILITIES SHALL BE PROTECTED AND DEEPENED AS NECESSARY.  
 ALL EXISTING UTILITIES SHALL BE REPAIRED OR REPLACED AS NECESSARY.  
 ALL CONSTRUCTION SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.  
 ALL MATERIALS SHALL BE TESTED AND APPROVED BY THE ENGINEER.  
 ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC WORKS, TEXAS EDITION, 2000.



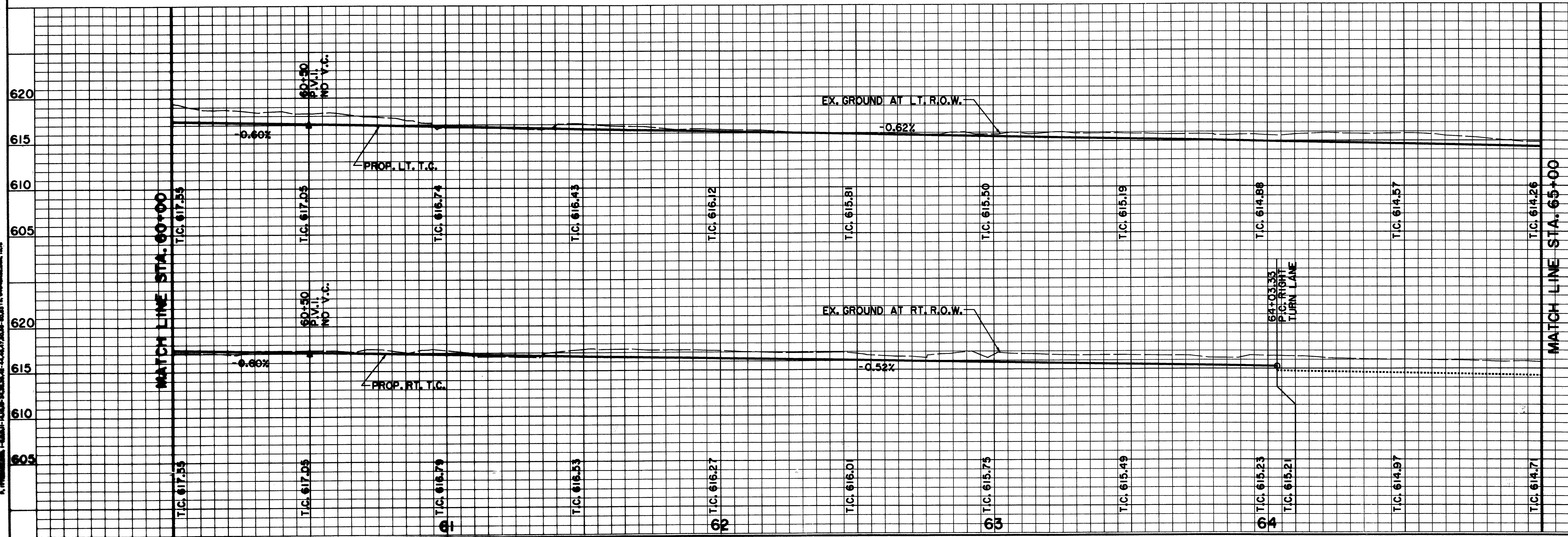
SEE STREETSCAPE PLANS FOR SIDEWALK, LANDSCAPING, IRRIGATION, LIGHTING AND PAVEMENT ENHANCEMENT DETAILS.

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

**LEGEND**

ELECTRIC — OHE	WATER — W
○ LIGHT POLE	FH FIRE HYDRANT
PP POWER POLE	WM METER
← GUY WIRE	T WATER VALVE
TELEPHONE — T	MISC.
TELEPHONE MANHOLE	48" RCP R.C.P. REMOVAL
TELEPHONE PEDESTAL	CHAIN LINK FENCE
TS TELEPHONE SIGN	WOOD FENCE
GAS — G	EXISTING ASPHALT
GAS METER	EXISTING DIRT OR GRAVEL
GAS SIGN	EX. CONCRETE
LAND USE	TREE/TREE LINE
R/R RAILROAD SIGN	EXISTING CURB
SIGN	PROP. CURB
SURVEY	EX. PROPERTY LINE
FOUND IRON ROD	PROP. CENTERLINE
TEMP BENCHMARK	PROP. R.O.W.
WASTEWATER — WW	PROP. INLET
WASTEWATER MANHOLE	PVMT TOP OF PAVEMENT
CLEANOUT	T.C. TOP OF CURB
	C.R. CURB RETURN



**BENCHMARKS:**  
 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61

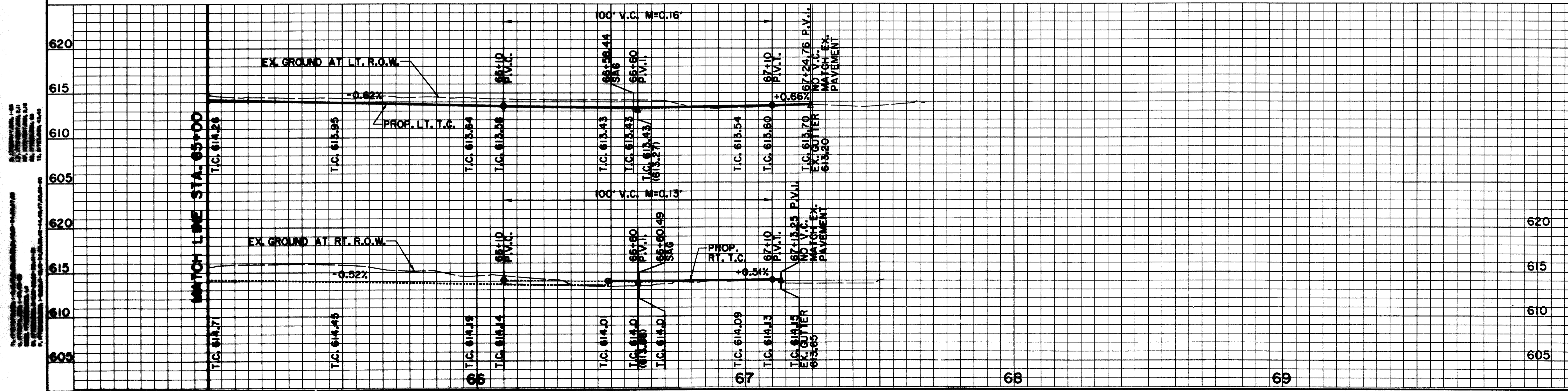
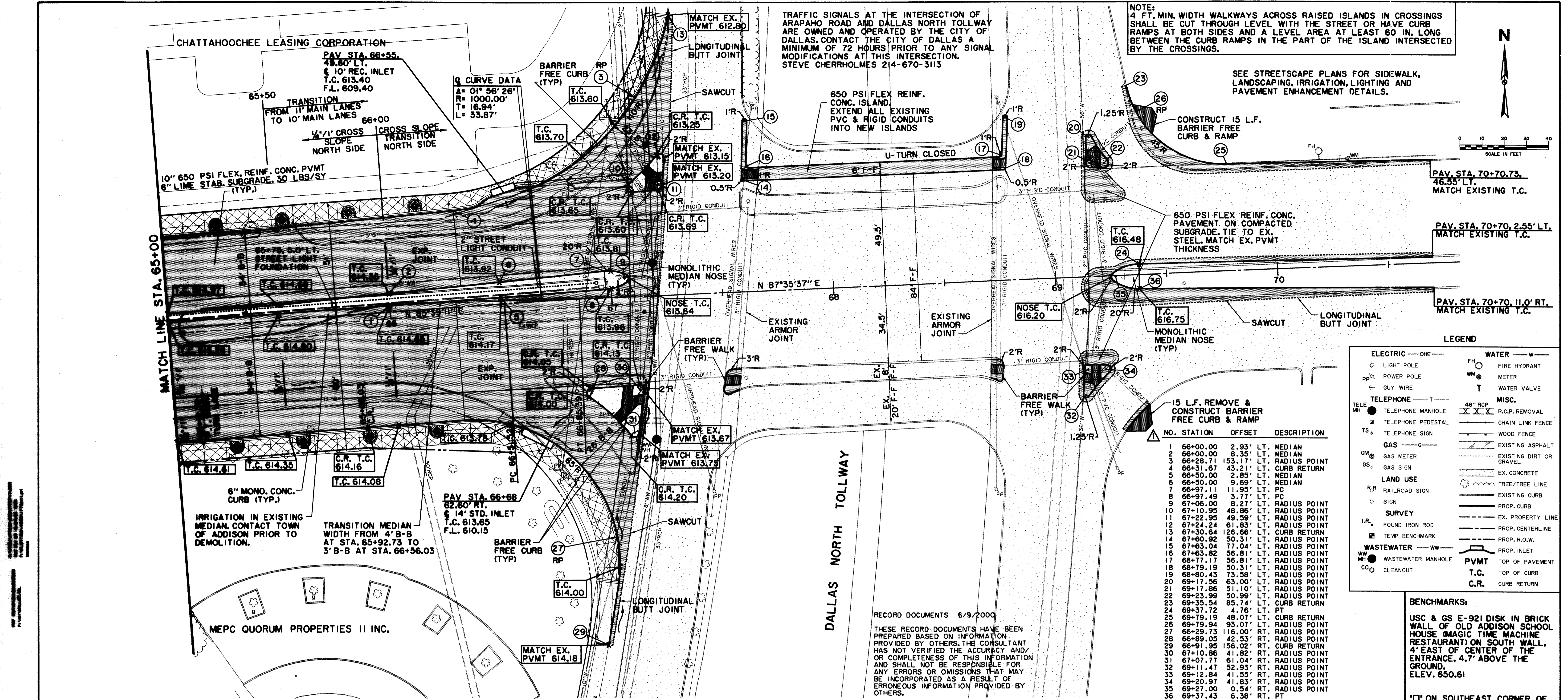
"I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



REVISSED 3/15/98

PAVING PLAN & PROFILE STA. 60+00 TO STA. 65+00						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>v</sub> 1"=20' V <sub>h</sub> 1"=8'	OCT 97	1772-01	P-7



**REVISED 11/13/97**

**PAVING PLAN & PROFILE**  
 STA. 65+00 TO DALLAS NORTH TOLLWAY  
**ARAPAHO ROAD**  
 ADDISON ROAD TO DALLAS NORTH TOLLWAY  
**TOWN OF ADDISON, TEXAS**  
 Hult-Zollars, Inc./Consulting Engineers  
 Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZ1	HZ1	KAR	H <sub>1</sub> 1"=20' V <sub>1</sub> 1"=6'	OCT 97	1772-01	P-8

**THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997**

*Kenneth A. Roberts* 10-29-97

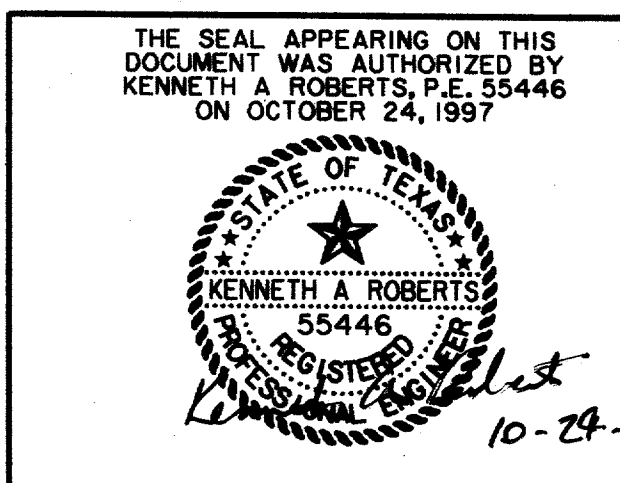


ITEM NO	DESCRIPTION	UNIT	SHEET SUMMARY																		ITEM NO.	PROJ. TOTAL
			D-1	D-2	D-3	P-3	P-4	P-5	P-6	P-7	P-8	P-9	P-10	P-11	P-12	P-15	P-16	P-17	P-18			
	PAVING IMPROVEMENTS																					
101	BARRICADES AND TRAFFIC CONTROL	MONTH				14															101	14
102	PREPARING RIGHT-OF-WAY	STA				4.65	5	5	5	5	2.35	1.75	2.5	2	3.75						102	37
103	REMOVE EX. CONCRETE PAVEMENT	SY	2,963	5,832	3,969																103	12,764
104	REMOVE EX. CONCRETE SIDEWALK	SF	2,890	4,621	2,172																104	9,683
105	UNCLASSIFIED STREET EXCAVATION	CY				1,243	2,299	2,732	2,957	1,336	1,485	175	150	150	600						105	13,127
106	10" 650 PSI FLEX REINF. CONC. PAVEMENT	SY				4,261	3,943	4,776	4,649	4,465	2,687	980	797	700	2,174						106	29,432
107	6" 650 PSI FLEX REINF. CONC. PAVEMENT	SY				619	35		129	260		204		74	388						107	1,709
108	6" LIME STAB. COMP. SUBGRADE/PROOFROLLING	SY				5,078	4,182	4,999	4,979	4,916	2,736	1,231	870	829	2,689						108	32,509
109	HYDRATED LIME (30 LBS./SY)	TON				76	63	75	75	74	41	18	13	12	41						109	488
110	6" INTEGRAL CONCRETE CURB	LF				1,785	1,835	2,001	1,817	1,714	1,423	431	657	493	1,140						110	13,296
111	MONOLITHIC MEDIAN NOSE	EA				3	2	2	3	1	1		1	1	1						111	15
112	650 PSI FLEX REINF. CONC. ISLAND	SY											85								112	85
113	4" 3000 PSI REINF. CONC. SIDEWALK	SF													1,480				1,332		113	2,812
114	6" THICK HMAC FOR DETOURS,	SY								350	350	200									114	1,700
115	REINF. CONC. STREET HEADER	LF										45	56	56	50						115	207
116	4" REFL. PAVEMENT MARKER TYPE I-C	EA															252	424	304		116	980
117	4" REFL. PAVEMENT MARKER TYPE II-A-A	EA															32				117	32
118	CERAMIC 6"x6" REFL. JIGGLE BAR	EA														115	117	79			118	311
119	8" DIA. TWO-WAY DUAL REFL. PVMT MARKER (YEL)	EA																	246		119	246
120	4" REFL. FIRE HYDRANT MARKER (BLUE)	EA															10	4	3		120	17
121	24" REFL. STOP BAR (WHITE)	LF															288	243	44		121	575
122	PVMT. ADVISORY MARKER (WHITE)	EA															9	10	7		122	26
123	4" REFL. TEMP. LANE STRIPE	LF				1,000				2,000	2,000	1,000	2,000	1,600	1,600	1,600					123	12,800
124	2" PVC SCH. 40 STREET LIGHT CONDUIT	LF				490	500	500	500	500	265		387	322	236						124	3,700
125	STREET LIGHT FOUNDATION	EA				4	3	3	3	3	1		1	1	1						125	20
126	STREET LIGHT PULL BOX	EA				3	2	2	3	1	1		2	2	2						126	18
127	MISCELLANEOUS EXCAVATION	CY						4,133	2,067												127	6,200
128	6"x12" REINFORCED CONCRETE BAND	LF										65									128	65
129	3600 PSI REINF. CONC. RET. WALL/SIDEWALK	CY																	8		129	8
130	3600 PSI REINF. CONC. RETAINING WALL	SF																	3,300		130	3,300



RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



UPDATED 1/16/98

<b>QUANTITY SUMMARY SHEET</b>						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZ1	HZ1	KAR	N.T.S.	OCT 97	1772-01	Q-1

H:\PROJ\177201\DWG\17720101.DWG  
 17720101.DWG  
 10/24/97  
 K.A. ROBERTS  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF TEXAS  
 NO. 55446









# DALLAS AREA RAPID TRANSIT PROPERTY ACQUISITION

VOL. 910088 PG. 1390

DALLAS AREA RAPID TRANSIT  
VOL. 96899 PG. 05197

DALLAS AREA RAPID TRANSIT  
VOL. 96169 PG. 04485

JOSEPH H. JONES, BETH BRANDEBERRY,  
CAROLYN PERKINS SHIMER MERRITT AND  
SAMUEL THOMAS PERKINS, CO-TRUSTEES OF  
THE MARY CORFIELD TRUST, THE EVELYN C.  
JONES TRUST, THE BETH BRANDEBERRY TRUST  
AND THE CORINNE SHIMER TRUST AND  
A BEN PINNELL, JR.  
VOL. 97109 PG. 03158

MCM COMPANY  
VOL. 76212 PG. 3704  
VOL. 82179 PG. 1556  
VOL. 82179 PG. 1559  
VOL. 84008 PG. 1944  
VOL. 84153 PG. 0532

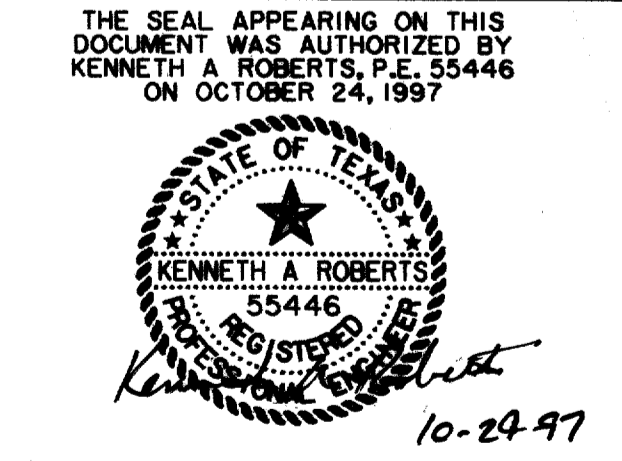
R.O.W. PARCEL 6-1-R BY  
SHIMK, JACOBS & FINKLEA

QUORUM DRIVE 80' R.O.W.

ARAPAHO ROAD

QUORUM CENTRE - EAST NO. 2 ADDITION  
VOL. 96187 PG. 01867

RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON  
INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS  
NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS  
INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY  
ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A  
RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



REVISED  
1/16/98

RIGHT-OF-WAY MAP						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=40'	OCT 97	1772-01	R-1

QUORUM CENTRE ADDITION  
VOL. 84067 PG. 5718

QUORUM CENTRE LTD. P/S  
VOL. 42038 PG. 0247

INTERNATIONAL GUARANTY CORP.  
VOL. 92001 PG. 0617

QUORUM CENTRE LTD. P/S  
VOL. 42038 PG. 0247

ADDISON CAR CARE ADDITION  
VOL. 87111 PG. 0286

EDWARD COOK SURVEY ABSTRACT NO. 362  
G.W. FISHER SURVEY ABSTRACT NO. 482

DEDICATED R.O.W. TO  
TOWN OF ADDISON  
VOL. 87111 PG. 0286

ADDISON ROAD

ARAPAHO ROAD

TEXAS POWER & LIGHT CO. ESM.T.  
VOL. 82054 PG. 0630

REF. BEARING  
N89°35'49"W

S89°28'46"E  
L= 98.48'

N89°29'08"W  
L= 28.07'

S89°29'08"W  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

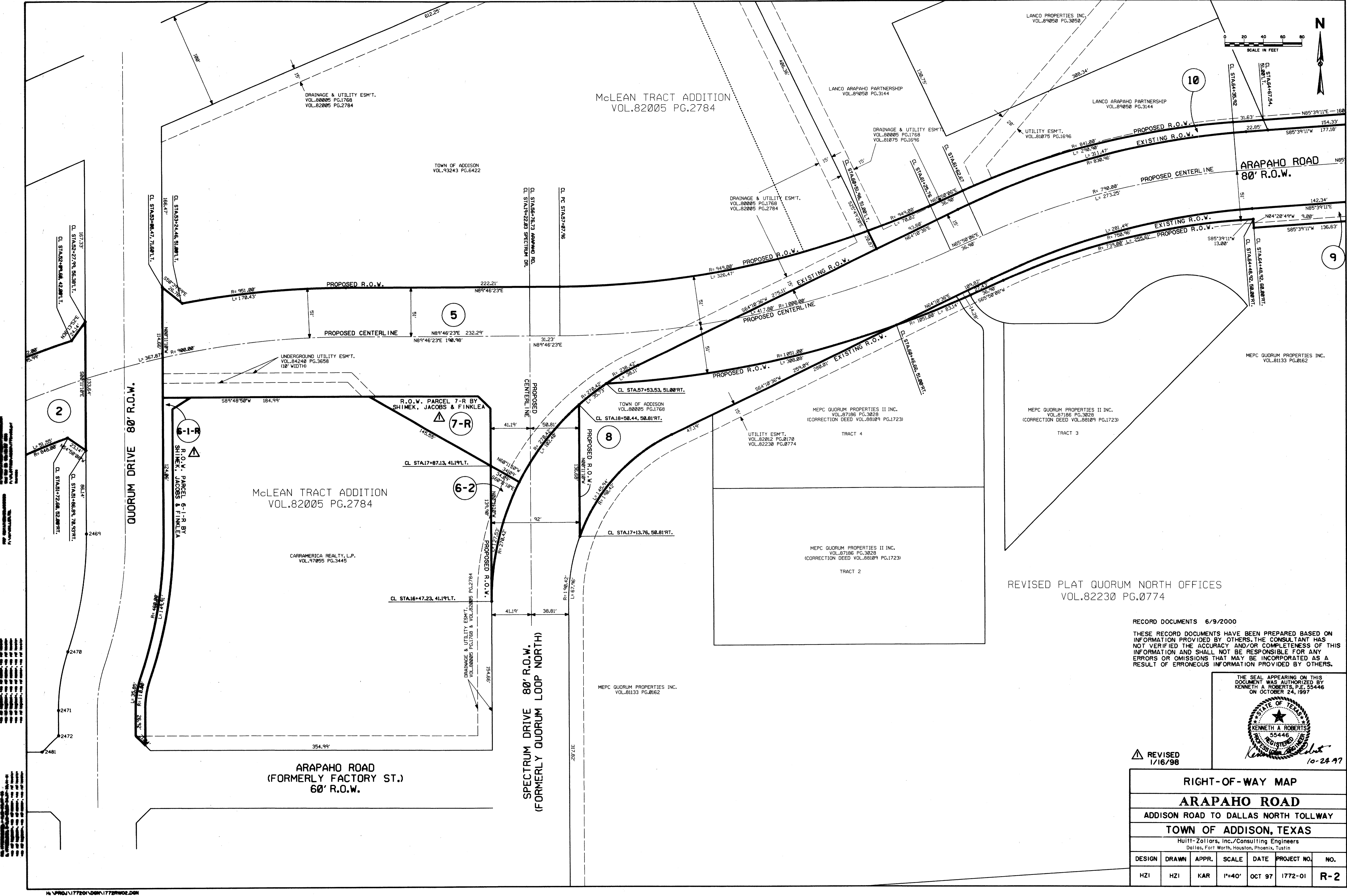
N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

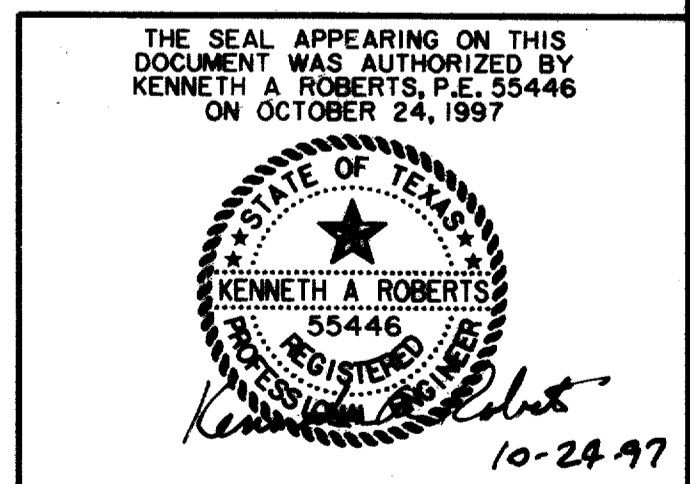
N89°28'46"E  
L= 27.56'

S89°28'46"E  
L= 27.56'

N89°28'46"E  
L= 27.56'



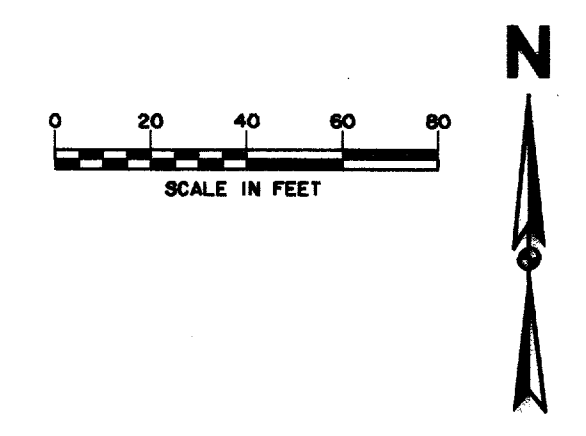
RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



REVISÉ  
 1/16/98

RIGHT-OF-WAY MAP						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Hult-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=40'	OCT 97	1772-01	R-2

DALLAS AREA RAPID TRANSIT PROPERTY ACQUISITION  
VOL. 91800 PG. 1398



TOWN OF ADDISON  
VOL. 93243 PG. 6422

McLEAN TRACT ADDITION  
VOL. 82005 PG. 2784

LANCO ARAPAHO PARTNERSHIP  
VOL. 89050 PG. 3144

ADLESTEIN ADDITION  
VOL. 81075 PG. 1696

CHATTAHOOCHEE LEASING CORPORATION  
VOL. 95191 PG. 06172

LANCO PROPERTIES INC.  
VOL. 89050 PG. 3050

LANCO ARAPAHO PARTNERSHIP  
VOL. 89050 PG. 3144

LANCO ARAPAHO PARTNERSHIP  
VOL. 89050 PG. 3144

DRAINAGE & UTILITY ESMT.  
VOL. 80005 PG. 1768  
VOL. 81075 PG. 1696

UTILITY ESMT.  
VOL. 81075 PG. 1696

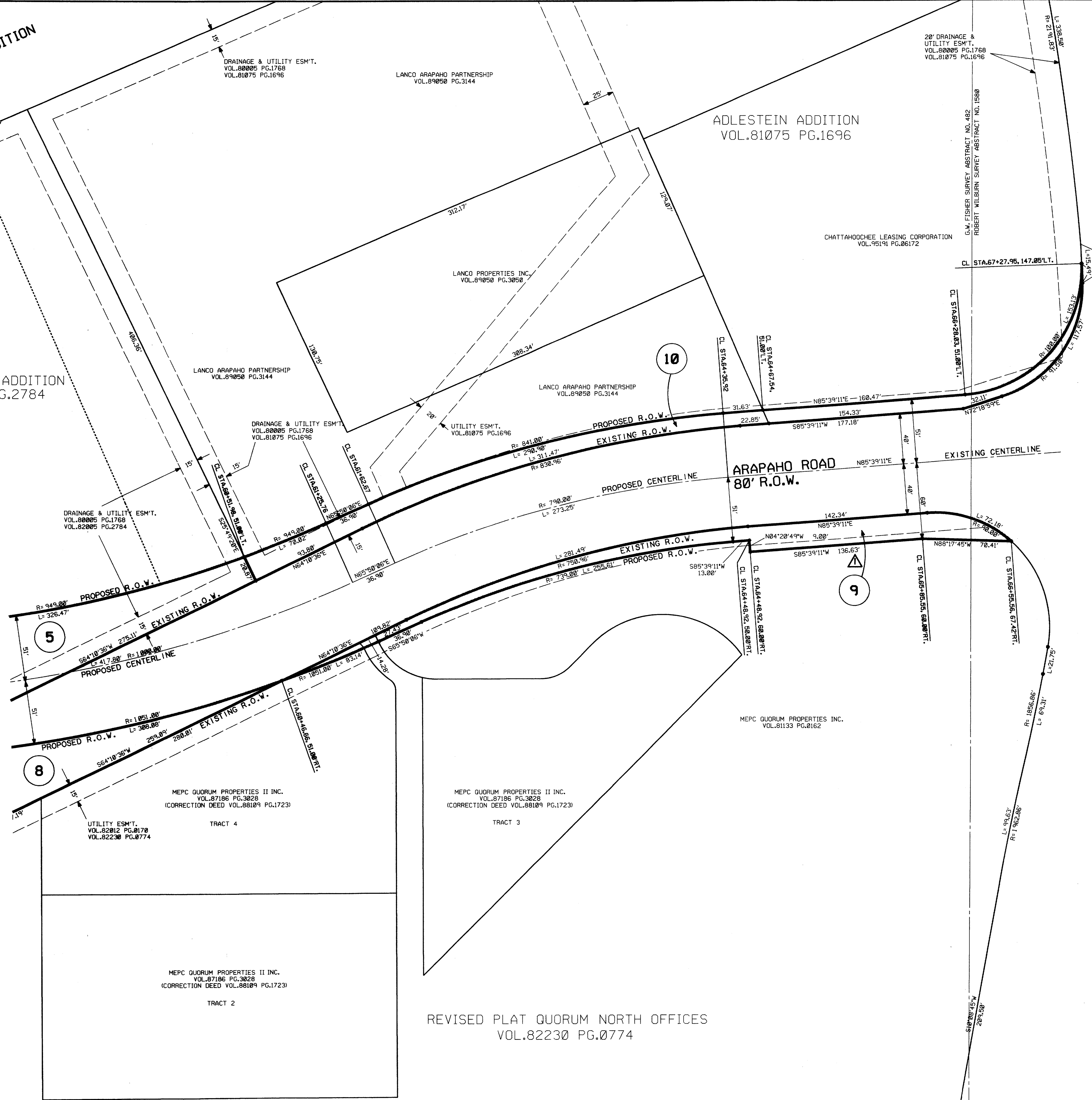
DRAINAGE & UTILITY ESMT.  
VOL. 80005 PG. 1768  
VOL. 82005 PG. 2784

DRAINAGE & UTILITY ESMT.  
VOL. 80005 PG. 1768  
VOL. 81075 PG. 1696

ARAPAHO ROAD  
80' R.O.W.

DALLAS NORTH TOLLWAY  
(VARIABLE WIDTH)

SEE PREVIOUS SHEET  
FOR THIS AREA



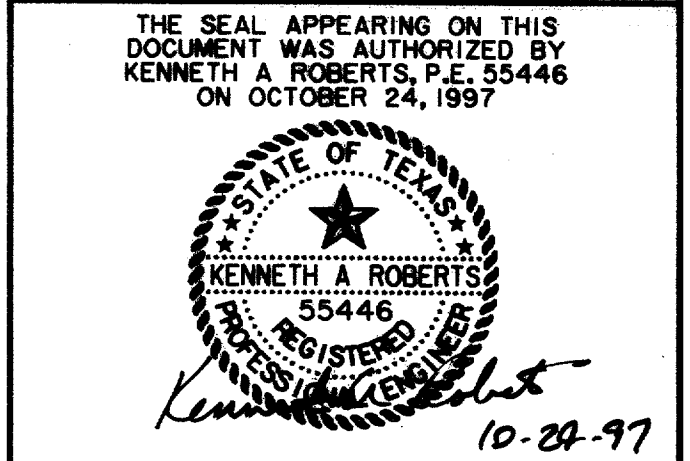
MEPC QUORUM PROPERTIES II INC.  
VOL. 87186 PG. 3028  
(CORRECTION DEED VOL. 88109 PG. 1723)  
TRACT 4

MEPC QUORUM PROPERTIES II INC.  
VOL. 87186 PG. 3028  
(CORRECTION DEED VOL. 88109 PG. 1723)  
TRACT 3

MEPC QUORUM PROPERTIES II INC.  
VOL. 87186 PG. 3028  
(CORRECTION DEED VOL. 88109 PG. 1723)  
TRACT 2

REVISED PLAT QUORUM NORTH OFFICES  
VOL. 82230 PG. 0774

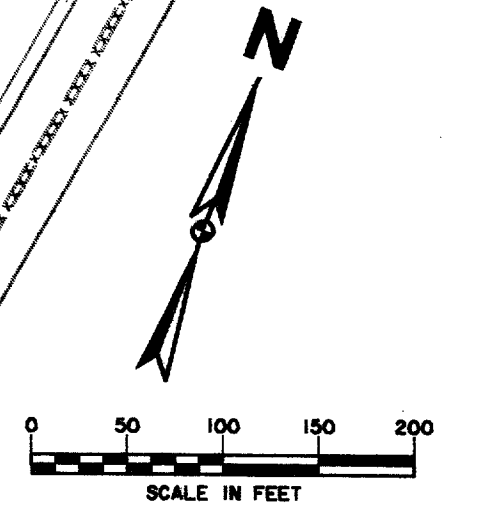
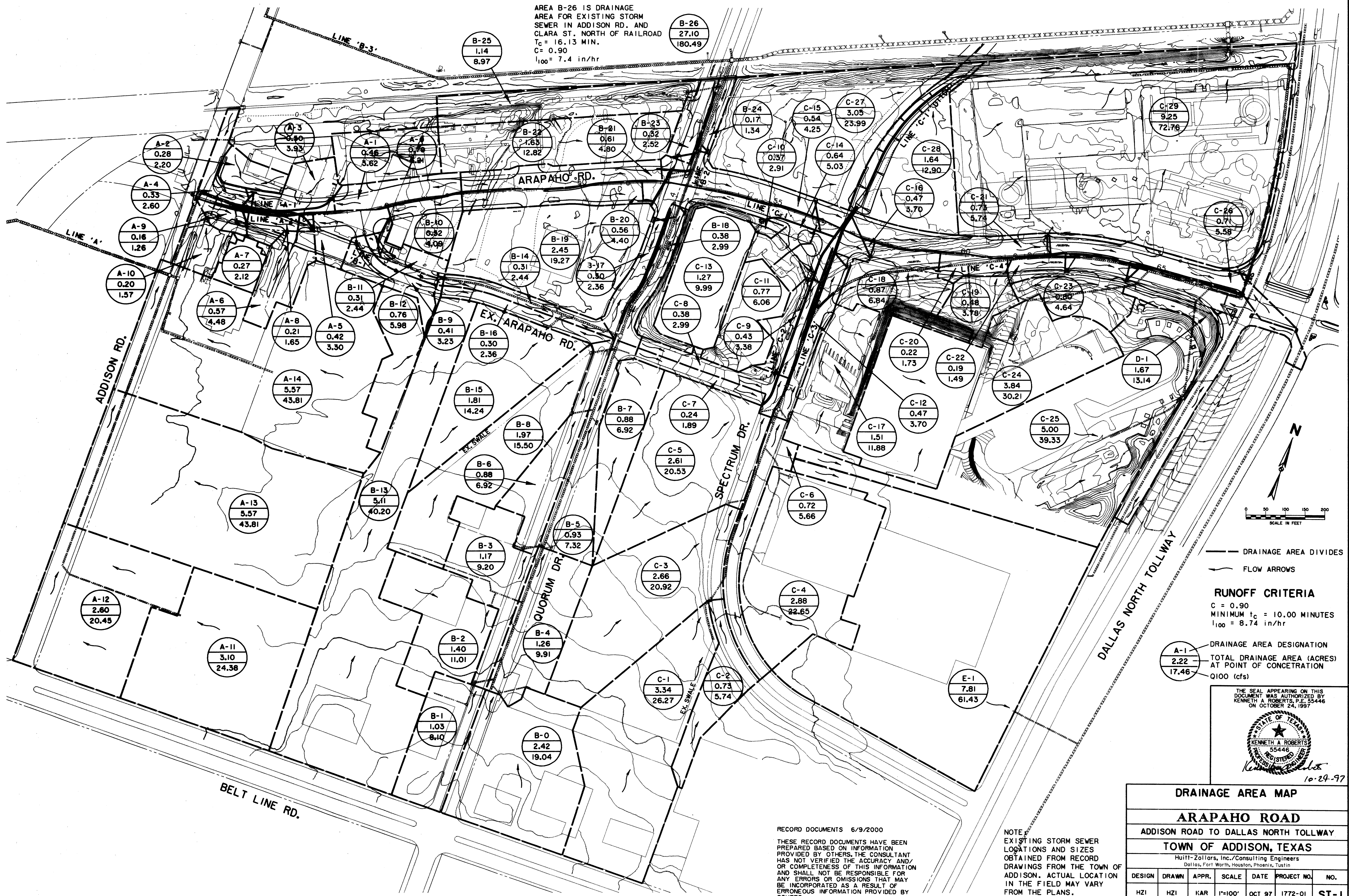
RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



REVISOR  
3/16/98

RIGHT-OF-WAY MAP						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitl-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=40'	OCT 97	1772-01	R-3

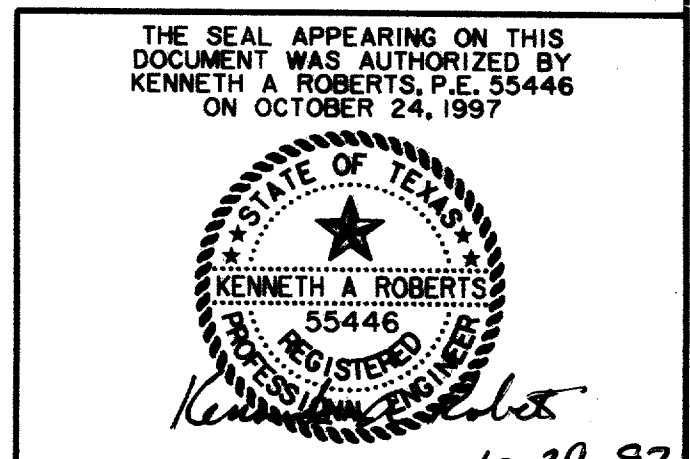
AREA B-26 IS DRAINAGE AREA FOR EXISTING STORM SEWER IN ADDISON RD. AND CLARA ST. NORTH OF RAILROAD  
 $t_c = 16.13$  MIN.  
 $C = 0.90$   
 $i_{100} = 7.4$  in/hr



— DRAINAGE AREA DIVIDES  
 — FLOW ARROWS

**RUNOFF CRITERIA**  
 $C = 0.90$   
 MINIMUM  $t_c = 10.00$  MINUTES  
 $i_{100} = 8.74$  in/hr

A-1  
 2.22  
 17.46  
 DRAINAGE AREA DESIGNATION  
 TOTAL DRAINAGE AREA (ACRES) AT POINT OF CONCENTRATION  
 Q100 (cfs)



<b>DRAINAGE AREA MAP</b>						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=100'	OCT 97	1772-01	ST-1

RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

NOTE:  
 EXISTING STORM SEWER LOCATIONS AND SIZES OBTAINED FROM RECORD DRAWINGS FROM THE TOWN OF ADDISON. ACTUAL LOCATION IN THE FIELD MAY VARY FROM THE PLANS.









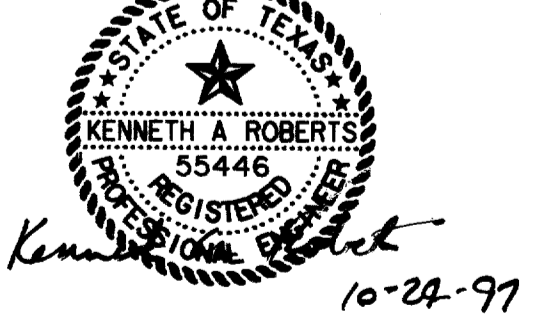
ARAPAHO ROAD  
STORMWATER PIPE CALCULATIONS - SEPTEMBER 16, 1997

Main data table with columns: COLLECTION POINT UPSTREAM STATION, COLLECTION POINT DOWNSTREAM STATION, DISTANCE BETWEEN COLLECTION POINTS, AREA NO., AREA (ACRES), INCREMENTAL RUNOFF COEFF. C, DRAINAGE AREA INCREM. CA, ACCUM. CA, TIME @ UPSTREAM STATION (MIN.), DESIGN STORM FREQUENCY (YEAR), RAINFALL INTENSITY (IN./HR), STORM WATER RUNOFF Q (CFS), SLOPE OF HYDRAULIC GRADIENT S (FT/FT), PIPE SIZE (INCHES), VELOCITY IN STORM SEWER V (FPS), HEAD LOSS COEFF. KJ, HEAD LOSS AT UPSTREAM WYE STATION (FT), HEAD LOSS IN PIPE (FT), FLOW TIME IN PIPE (MIN), TIME @ DOWNSTREAM STATION (MIN), DESIGN Q (CFS), VELOCITY HEAD (FT), H.G. AT UPSTREAM STATION (FT), H.G. AT DOWNSTREAM STATION (FT), and REMARKS.

RECORD DOCUMENTS 6/9/2000

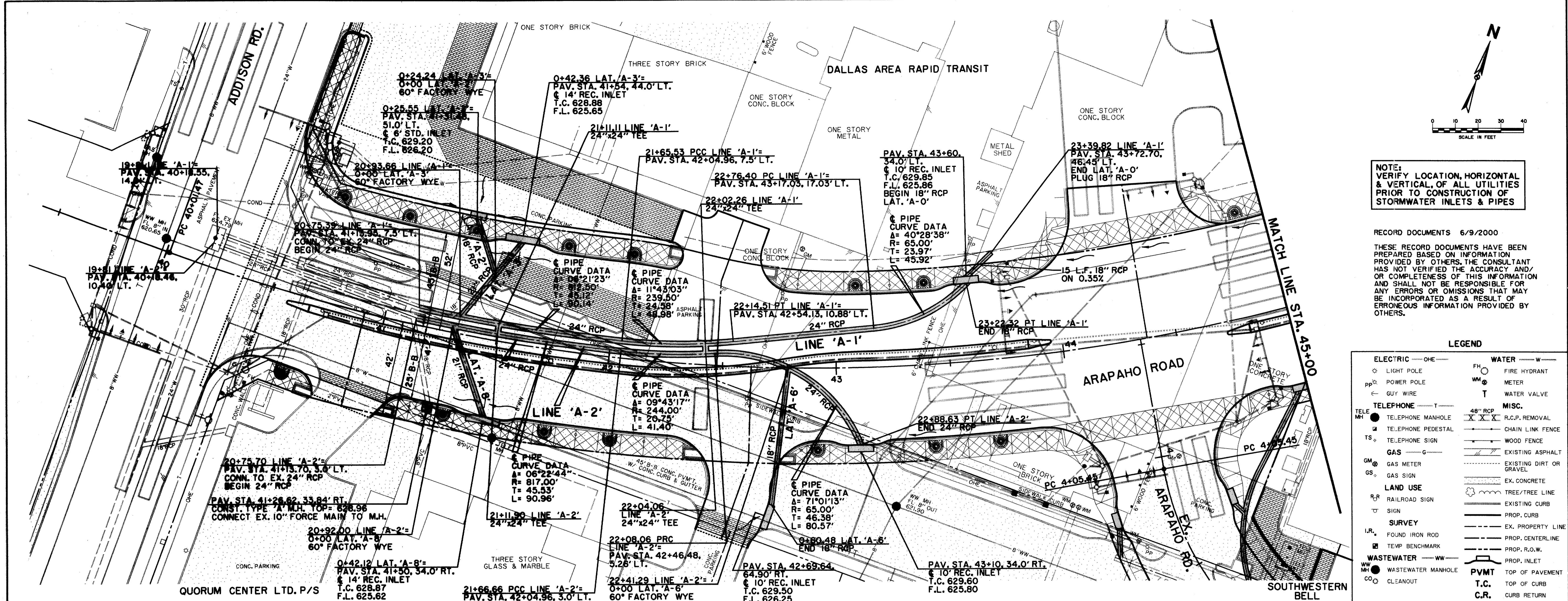
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 35446 ON OCTOBER 24, 1997



**STORMWATER CALCULATIONS**  
**ARAPAHO ROAD**  
ADDISON ROAD TO DALLAS NORTH TOLLWAY  
TOWN OF ADDISON, TEXAS  
Huitt-Zollars, Inc./Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	NONE	OCT 97	1772-01	ST-5

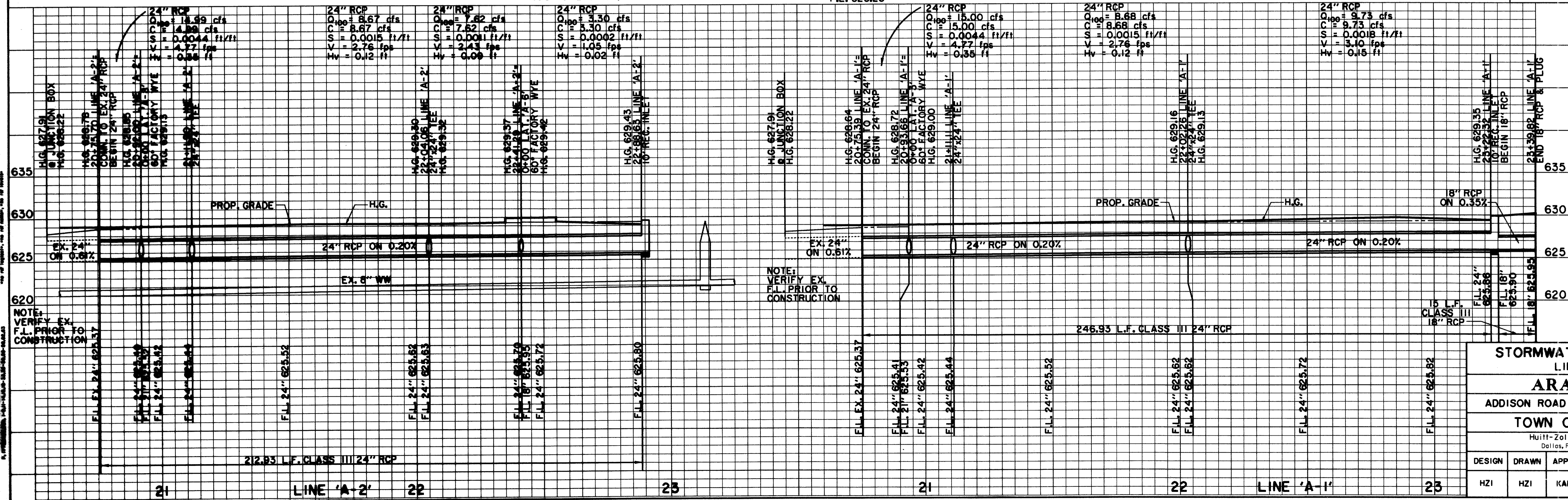


NOTE:  
VERIFY LOCATION, HORIZONTAL  
& VERTICAL, OF ALL UTILITIES  
PRIOR TO CONSTRUCTION OF  
STORMWATER INLETS & PIPES

RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN  
PREPARED BASED ON INFORMATION  
PROVIDED BY OTHERS. THE CONSULTANT  
HAS NOT VERIFIED THE ACCURACY AND/  
OR COMPLETENESS OF THIS INFORMATION  
AND SHALL NOT BE RESPONSIBLE FOR  
ANY ERRORS OR OMISSIONS THAT MAY  
BE INCORPORATED AS A RESULT OF  
ERRONEOUS INFORMATION PROVIDED BY  
OTHERS.

**LEGEND**

ELECTRIC — ONE	WATER — W
○ LIGHT POLE	FH FIRE HYDRANT
PP POWER POLE	WM METER
— GUY WIRE	T WATER VALVE
TELEPHONE — T	MISC.
● TELEPHONE MANHOLE	48" RCP R.C.P. REMOVAL
○ TELEPHONE PEDESTAL	— CHAIN LINK FENCE
TS TELEPHONE SIGN	— WOOD FENCE
GAS — G	— EXISTING ASPHALT
GM GAS METER	— EXISTING DIRT OR GRAVEL
GS GAS SIGN	— EX. CONCRETE
LAND USE	— TREE/TREE LINE
R.R. RAILROAD SIGN	— EXISTING CURB
⊕ SIGN	— PROP. CURB
SURVEY	— EX. PROPERTY LINE
I.R. FOUND IRON ROD	— PROP. CENTERLINE
⊕ TEMP BENCHMARK	— PROP. R.O.W.
WASTEWATER — WW	— PROP. INLET
WM WASTEWATER MANHOLE	— TOP OF PAVEMENT
CO CLEANOUT	T.C. TOP OF CURB
	C.R. CURB RETURN



**BENCHMARKS:**  
USC & GS E-921 DISK IN BRICK  
WALL OF OLD ADDISON SCHOOL  
HOUSE (MAGIC TIME MACHINE  
RESTAURANT) ON SOUTH WALL,  
4' EAST OF CENTER OF THE  
ENTRANCE, 4.7' ABOVE THE  
GROUND.  
ELEV. 650.61  
  
"□" ON SOUTHEAST CORNER OF  
CONCRETE WALK AT FRONT  
ENTRANCE TO 4805 ARAPAHO  
ROAD.  
ELEV. 650.61

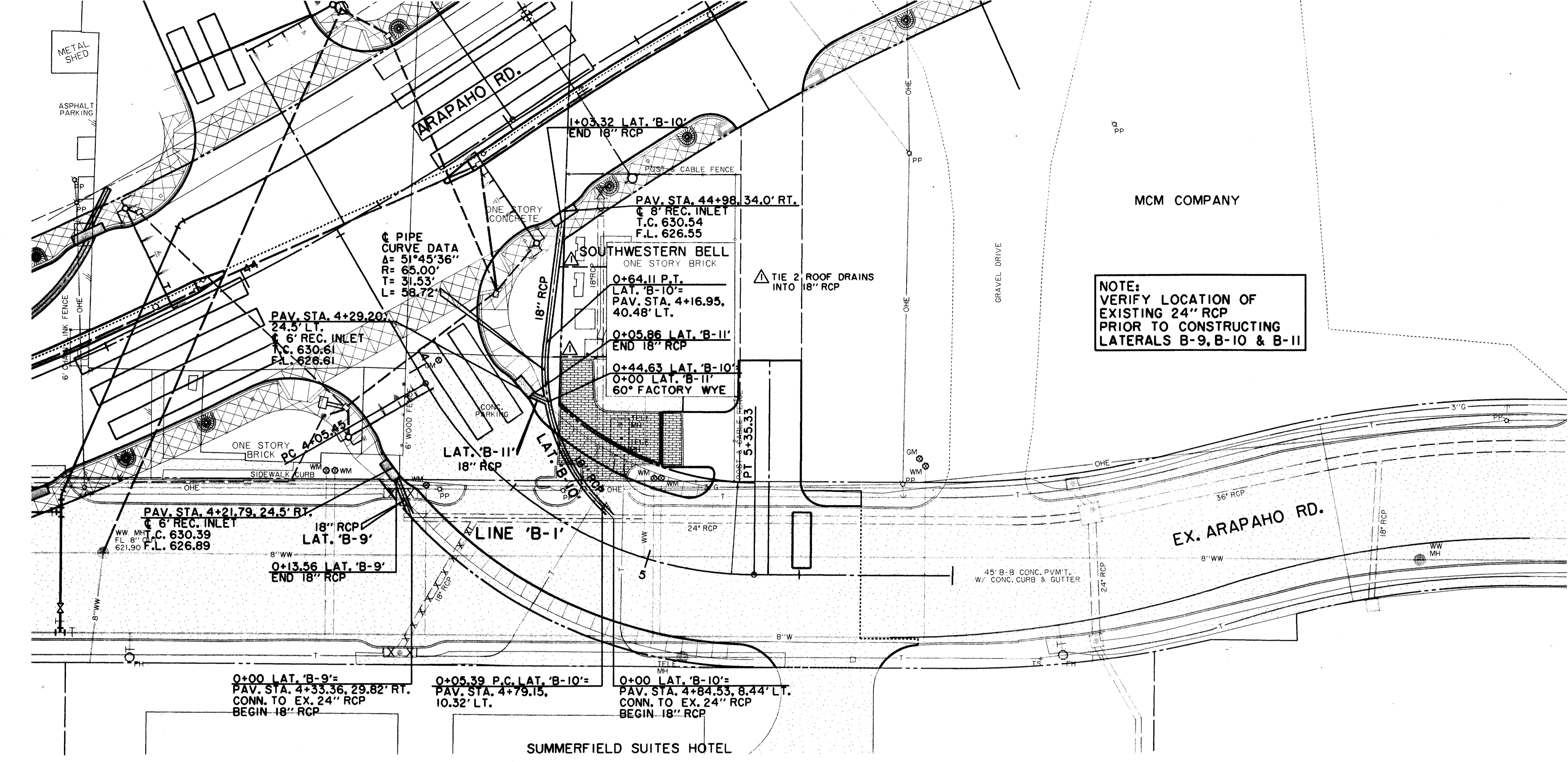
THE SEAL APPEARING ON THIS  
DOCUMENT WAS AUTHORIZED BY  
KENNETH A. ROBERTS, P.E. 55446  
ON OCTOBER 24, 1997

10-29-97

**STORMWATER PLAN & PROFILE**  
**LINES 'A-1' & 'A-2'**  
**ARAPAHO ROAD**  
ADDISON ROAD TO DALLAS NORTH TOLLWAY  
TOWN OF ADDISON, TEXAS  
Hull-Zollars, Inc./Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZ1	HZ1	KAR	1/4"=20' 1/8"=6'	OCT 97	1772-01	ST-6

THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HULL-ZOLLARS, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF HULL-ZOLLARS, INC.



NOTE: VERIFY LOCATION, HORIZONTAL & VERTICAL, OF ALL UTILITIES PRIOR TO CONSTRUCTION OF STORMWATER INLETS & PIPES

NOTE: VERIFY LOCATION OF EXISTING 24" RCP PRIOR TO CONSTRUCTING LATERALS B-9, B-10 & B-11

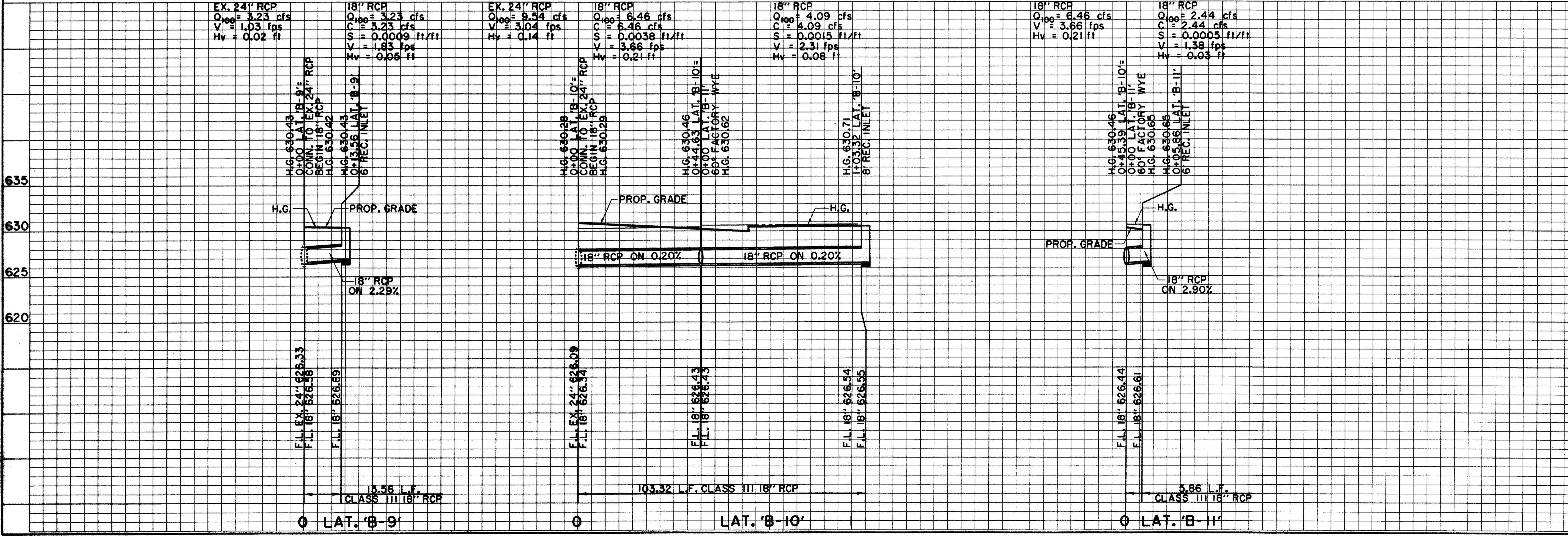
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

LEGEND

	ELECTRIC — OHE —		WATER — W —
	LIGHT POLE		FIRE HYDRANT
	POWER POLE		METER
	GUY WIRE		WATER VALVE
	TELEPHONE — T —		R.C.P. REMOVAL
	TELEPHONE MANHOLE		CHAIN LINK FENCE
	TELEPHONE PEDESTAL		WOOD FENCE
	TELEPHONE SIGN		EXISTING ASPHALT
	GAS — G —		EXISTING DIRT OR GRAVEL
	GAS METER		EX. CONCRETE
	GAS SIGN		TREE/TREE LINE
	LAND USE		EXISTING CURB
	RAILROAD SIGN		PROP. CURB
	SIGN		EX. PROPERTY LINE
	SURVEY		PROP. CENTERLINE
	FOUND IRON ROD		PROP. R.O.W.
	TEMP BENCHMARK		PROP. INLET
	WASTEWATER — WW —		PROP. R.O.W.
	WASTEWATER MANHOLE		P.V.M.T. TOP OF PAVEMENT
	CLEANOUT		C.R. TOP OF CURB
			CURB RETURN

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



**BENCHMARKS:**

USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61

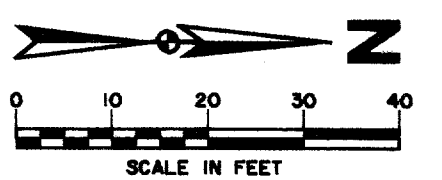
"I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

RECORD DOCUMENTS 6/9/2000

<b>STORMWATER PLAN &amp; PROFILE</b>						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Hutti-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>1</sub> = 20' V <sub>1</sub> = 6'	OCT 97	1772-01	ST-7

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



MCM COMPANY

0+91.75 LAT. 'B-19'  
0+00 LAT. 'B-20'  
60° FACTORY WYE

PAV. STA. 51+47.44, 0' RT. PC 51+17.88  
10' REC. INLET  
T.C. 625.97  
F.L. 621.97

0+28.98 LAT. 'B-20'  
END 24" RCP

1+03.84 LAT. 'B-19'  
END 42" RCP & PLUG

0+55.40 LAT. 'B-17'  
PAV. STA. 3+23.50,  
32.0' LT.  
10' REC. INLET  
T.C. 625.61  
F.L. 622.61

0+00 LAT. 'B-17'  
PAV. STA. 3+51.20, 15.0' RT.  
CONN. TO EX. 66" RCP  
BEGIN 18" RCP

0+19.71 LAT. 'B-18'  
PAV. STA. 3+78.86, 32.0' RT.  
10' REC. INLET  
T.C. 625.70  
F.L. 621.70

CARRAMERICA REALTY  
LIMITED PARTNERSHIP

0+00 LAT. 'B-18'  
PAV. STA. 3+78.86, 15.0' RT.  
CONN. TO EX. 60" RCP  
BEGIN 18" RCP

PAV. STA. 51+95.34' LT.  
10' REC. INLET  
T.C. 625.68  
F.L. 621.68

0+81.27 LAT. 'B-21'  
END 24" RCP

0+57.68 LAT. 'B-21'  
END 42" RCP  
BEGIN 24" RCP

0+52.67 LAT. 'B-21'  
0+00 LAT. 'B-19'  
60° FACTORY WYE

0+17.50 LAT. 'B-21'  
PAV. STA. 52+61.69, 34.00' LT.  
P.I.

PAV. STA. 4+86.06, 49.04' LT.  
END LAT. 'B-22'  
PLUG 24" RCP  
F.L. 621.82

LAT. 'B-22'  
15 L.F. 24" RCP  
ON 0.40%

NOTE:  
VERIFY LOCATION OF  
EXISTING 60" & 66" RCP  
PRIOR TO CONSTRUCTING  
LATERALS B-17, B-18, B-19  
B-20, B-21, B-23 & B-24

0+55.14 LAT. 'B-23'  
PAV. STA. 4+96.50, 32.0' LT.  
10' REC. INLET  
T.C. 625.72  
F.L. 621.72  
BEGIN 24" RCP  
LAT. 'B-22'  
F.L. 621.76

0+00 LAT. 'B-23'  
PAV. STA. 5+24.07, 15.0' RT.  
CONN. TO EX. 66" RCP  
BEGIN 24" RCP

0+00 LAT. 'B-21'  
PAV. STA. 4+77.87, 15.0' RT.  
CONN. TO EX. 66" RCP  
BEGIN 42" RCP

0+00 LAT. 'B-24'  
PAV. STA. 5+45.70, 15.0' RT.  
CONN. TO EX. 66" RCP  
BEGIN 18" RCP

0+20.40 LAT. 'B-24'  
PAV. STA. 5+35.50, 32.0' RT.  
10' REC. INLET  
T.C. 625.40  
F.L. 621.40

TOWN OF ADDISON

NOTE:  
VERIFY LOCATION, HORIZONTAL  
& VERTICAL, OF ALL UTILITIES  
PRIOR TO CONSTRUCTION OF  
STORMWATER INLETS & PIPES

MCI BURIED CABLE. CONTACT  
ADRIAN THEBAU 972/554-4127  
48 HOURS PRIOR TO ANY  
CONSTRUCTION IN THIS AREA.

BROOKS BURIED CABLE. CONTACT  
THERESA HARDIN 972/753-1900  
48 HOURS PRIOR TO ANY  
CONSTRUCTION IN THIS AREA

LEGEND

ELECTRIC — OHE	WATER — W
○ LIGHT POLE	○ FIRE HYDRANT
□ POWER POLE	○ METER
— GUY WIRE	○ WATER VALVE
TELEPHONE — T	MISC.
○ TELEPHONE MANHOLE	X X X R.C.P. REMOVAL
□ TELEPHONE PEDESTAL	— CHAIN LINK FENCE
○ TELEPHONE SIGN	— WOOD FENCE
GAS — G	— EXISTING ASPHALT
○ GAS METER	— EXISTING DIRT OR GRAVEL
○ GAS SIGN	— EX. CONCRETE
LAND USE	— TREE/TREE LINE
R.R. RAILROAD SIGN	— EXISTING CURB
○ SIGN	— PROP. CURB
SURVEY	— EX. PROPERTY LINE
I.R. FOUND IRON ROD	— PROP. CENTERLINE
□ TEMP BENCHMARK	— PROP. R.O.W.
WASTEWATER — WW	— PROP. INLET
○ WASTEWATER MANHOLE	— P.V.M.T. TOP OF PAVEMENT
○ CLEANOUT	— T.C. TOP OF CURB
	— C.R. CURB RETURN

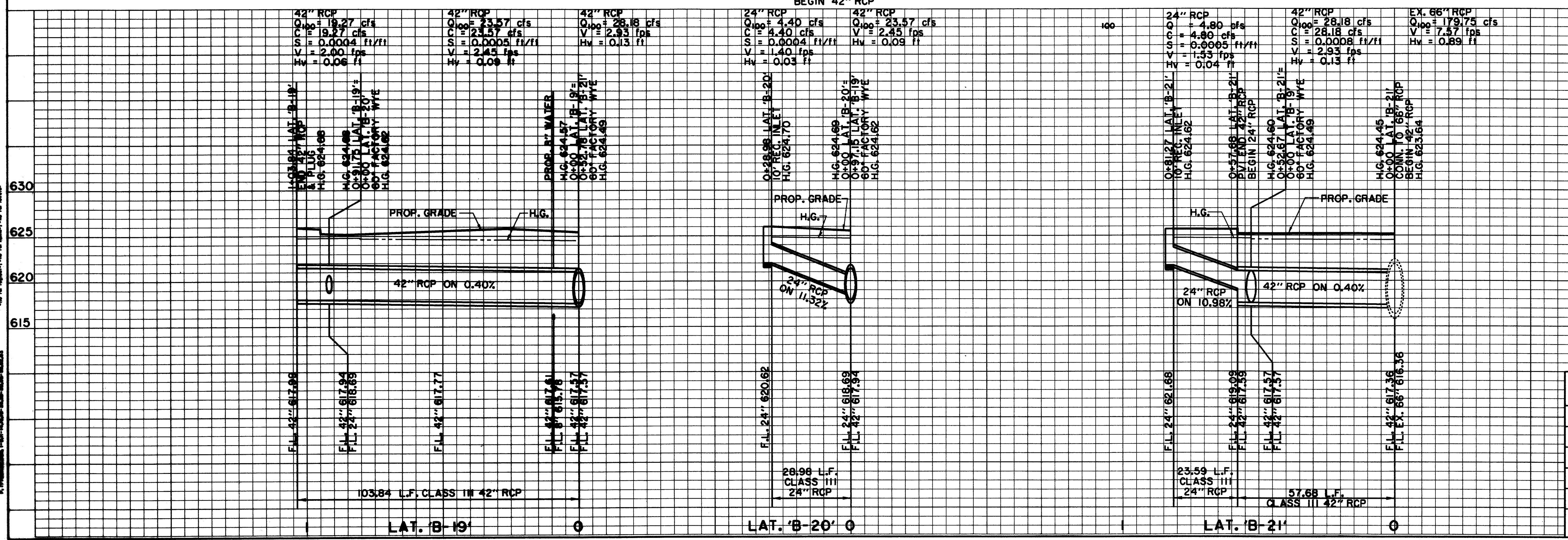
BENCHMARKS:  
USC & GS E-921 DISK IN BRICK  
WALL OF OLD ADDISON SCHOOL  
HOUSE (MAGIC TIME MACHINE  
RESTAURANT) ON SOUTH WALL,  
4' EAST OF CENTER OF THE  
ENTRANCE, 4.7' ABOVE THE  
GROUND.  
ELEV. 650.61

"I" ON SOUTHEAST CORNER OF  
CONCRETE WALK AT FRONT  
ENTRANCE TO 4805 ARAPAHO  
ROAD.  
ELEV. 630.61

THE SEAL APPEARING ON THIS  
DOCUMENT WAS AUTHORIZED BY  
KENNETH A. ROBERTS, P.E. 55446  
ON OCTOBER 24, 1997

10-24-97

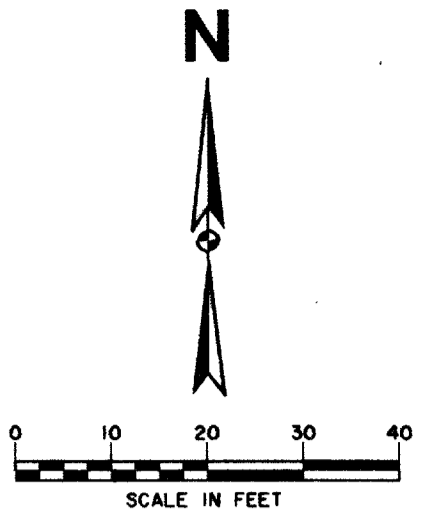
STORMWATER PLAN & PROFILE LINE 'B-2'						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tucson						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>v</sub> 1"=20' V <sub>v</sub> 1"=6'	OCT 97	1772-01	ST-8



ALL INFORMATION ON THIS PLAN IS THE PROPERTY OF HUIIT-ZOLLARS, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

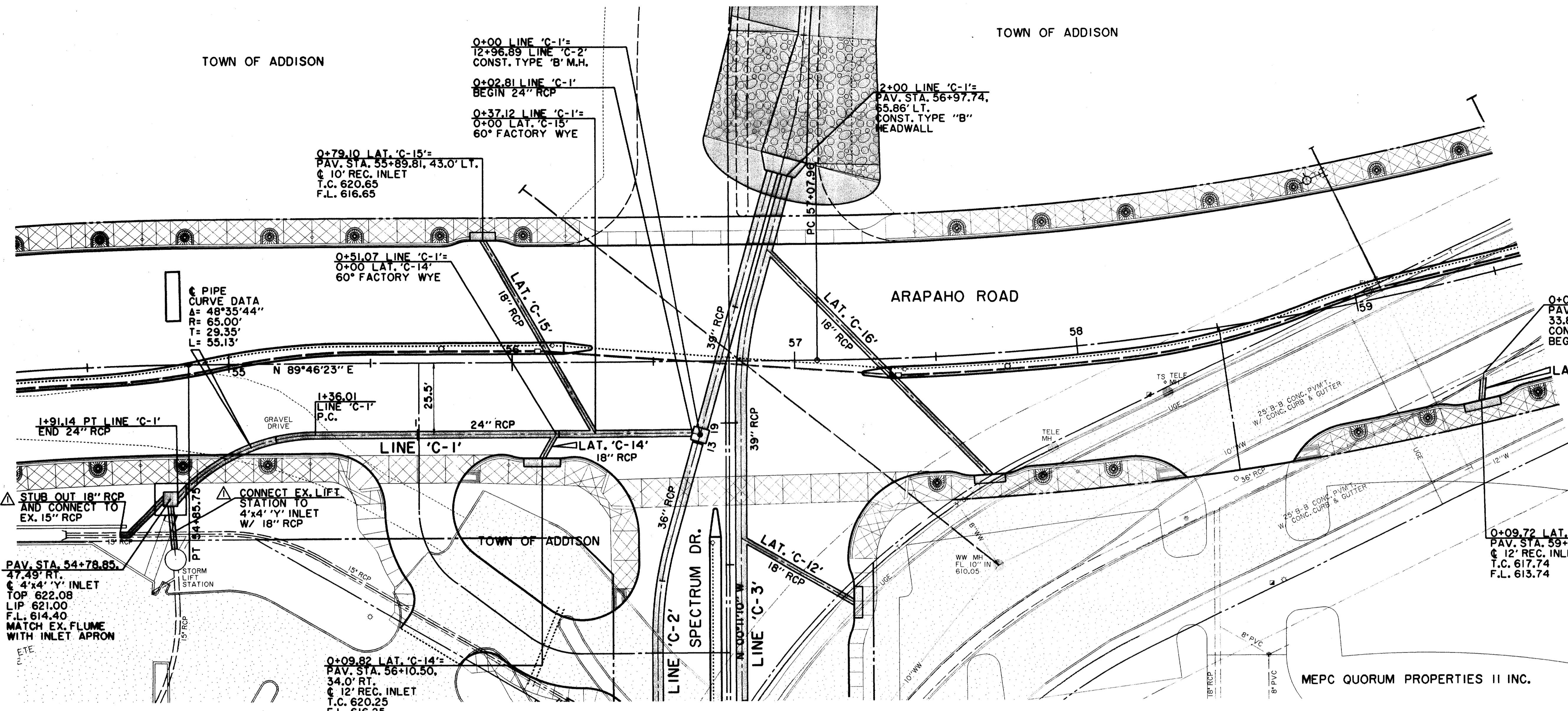
TOWN OF ADDISON

TOWN OF ADDISON



NOTE: VERIFY LOCATION, HORIZONTAL & VERTICAL, OF ALL UTILITIES PRIOR TO CONSTRUCTION OF STORMWATER INLETS & PIPES

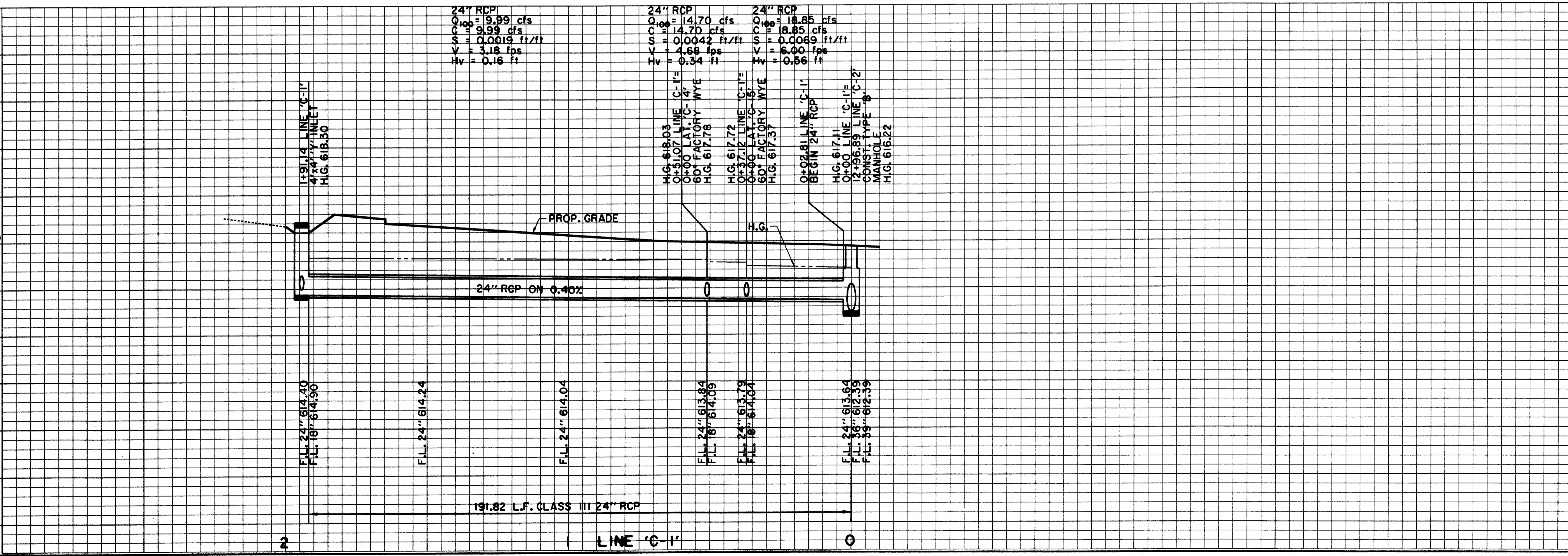
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



LEGEND table with symbols for Electric, Telephone, Land Use, Survey, Wastewater, Water, and Misc. items.

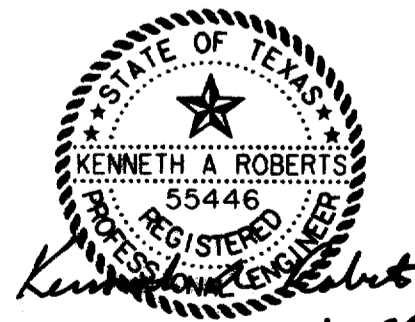
CARRAMERICA REALTY LIMITED PARTNERSHIP

MEPC QUORUM PROPERTIES II INC.



BENCHMARKS: USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE... 'I' ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

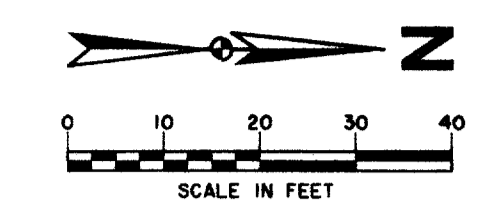


Project information table including title 'STORMWATER PLAN & PROFILE ARAPAHO ROAD', designer 'Hult-Zollars, Inc.', and project number 'ST-9'.

Vertical text on the left margin containing project details and dates.

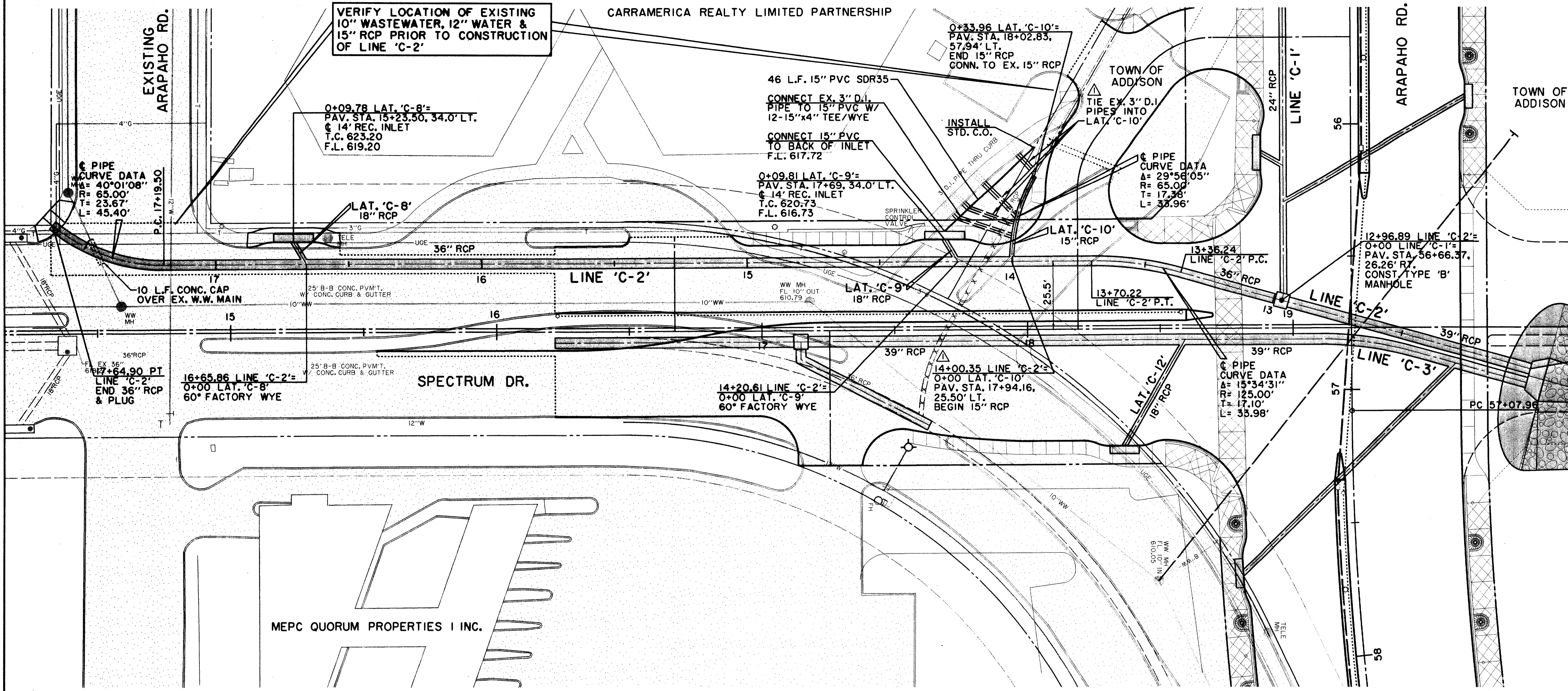


VERIFY LOCATION OF EXISTING 10" WASTEWATER, 12" WATER & 15" RCP PRIOR TO CONSTRUCTION OF LINE 'C-2'



NOTE: VERIFY LOCATION, HORIZONTAL & VERTICAL, OF ALL UTILITIES PRIOR TO CONSTRUCTION OF STORMWATER INLETS & PIPES

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

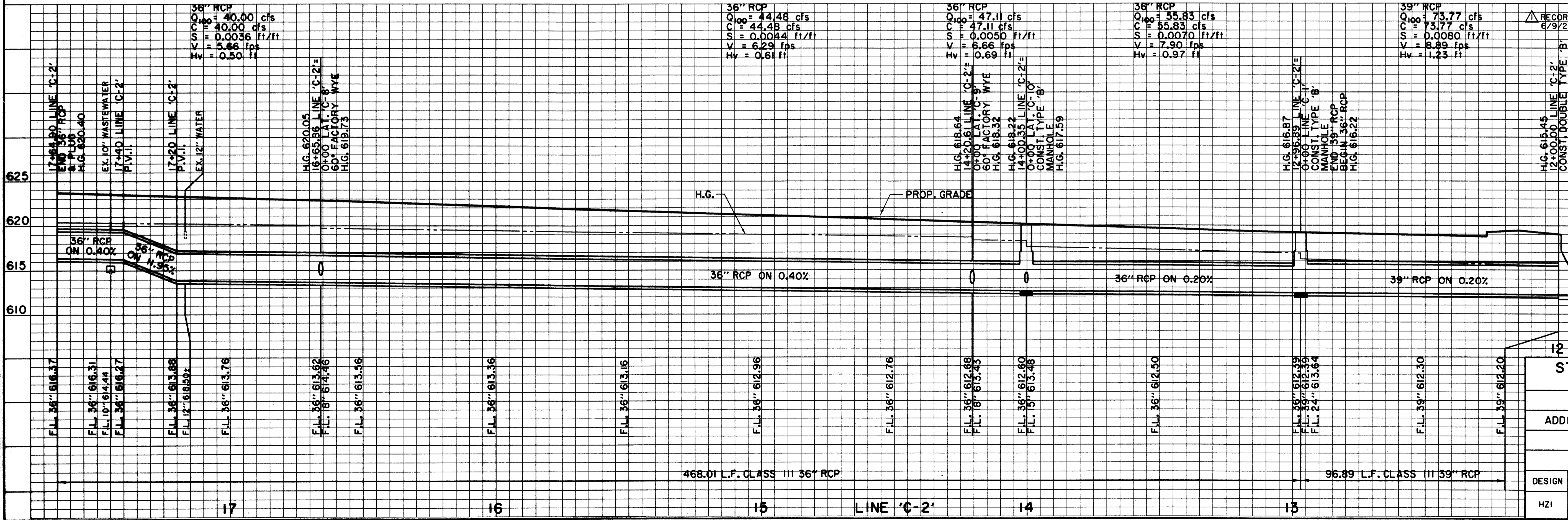


12+96.89 LINE 'C-2' = 0+00 LINE 'C-1' = PAV. STA. 56+66.37, 26.26' RT. CONST. TYPE 'B' MANHOLE

12+00.00 LINE 'C-2' = PAV. STA. 56+92.45, 65.86' LT. CONST. DOUBLE TYPE 'B' HEADWALL FOR 42" RCP BEGIN 39" RCP

LEGEND

ELECTRIC — OH —	WATER — W —
○ LIGHT POLE	FH FIRE HYDRANT
PP POWER POLE	WM METER
— GUY WIRE	T WATER VALVE
TELEPHONE — T —	MISC.
● TELEPHONE MANHOLE	X R.C.P. REMOVAL
■ TELEPHONE PEDESTAL	— CHAIN LINK FENCE
TS TELEPHONE SIGN	— WOOD FENCE
GAS — G —	— EXISTING ASPHALT
GM GAS METER	— EXISTING DIRT OR GRAVEL
GS GAS SIGN	— EX. CONCRETE
LAND USE	— TREE/TREE LINE
RR RAILROAD SIGN	— EXISTING CURB
SURVEY	— PROP. CURB
IR FOUND IRON ROD	— PROP. PROPERTY LINE
□ TEMP BENCHMARK	— PROP. CENTERLINE
W WASTEWATER	— PROP. R.O.W.
WM WASTEWATER MANHOLE	— PROP. INLET
CO CLEANOUT	PVMT TOP OF PAVEMENT
	T.C. TOP OF CURB
	C.R. CURB RETURN



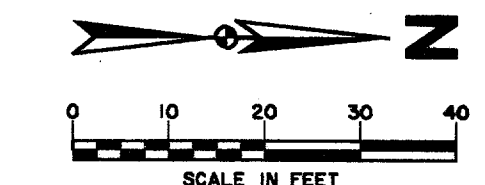
RECORD DOCUMENTS 6/9/2000

BENCHMARKS:  
 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61  
 "I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

STORMWATER PLAN & PROFILE						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollers, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>1</sub> 1"=20' V <sub>1</sub> 1"=6'	OCT 97	1772-01	ST-10

PROJECT: 177201.dgn 17720605.DGN  
 DATE: 10/24/97  
 DRAWN BY: HZI  
 CHECKED BY: HZI  
 APPR. BY: KAR  
 SCALE: H<sub>1</sub> 1"=20', V<sub>1</sub> 1"=6'  
 DATE: OCT 97  
 PROJECT NO.: 1772-01  
 SHEET NO.: ST-10



**NOTE:**  
VERIFY LOCATION, HORIZONTAL & VERTICAL, OF ALL UTILITIES PRIOR TO CONSTRUCTION OF STORMWATER INLETS & PIPES

RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

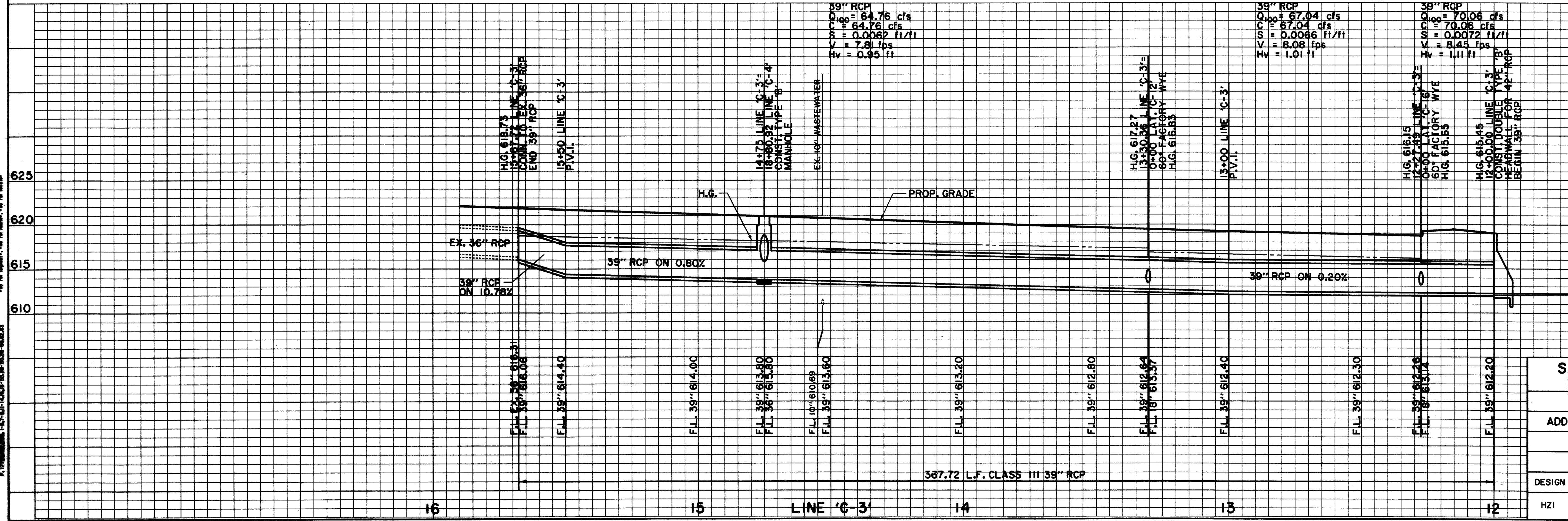
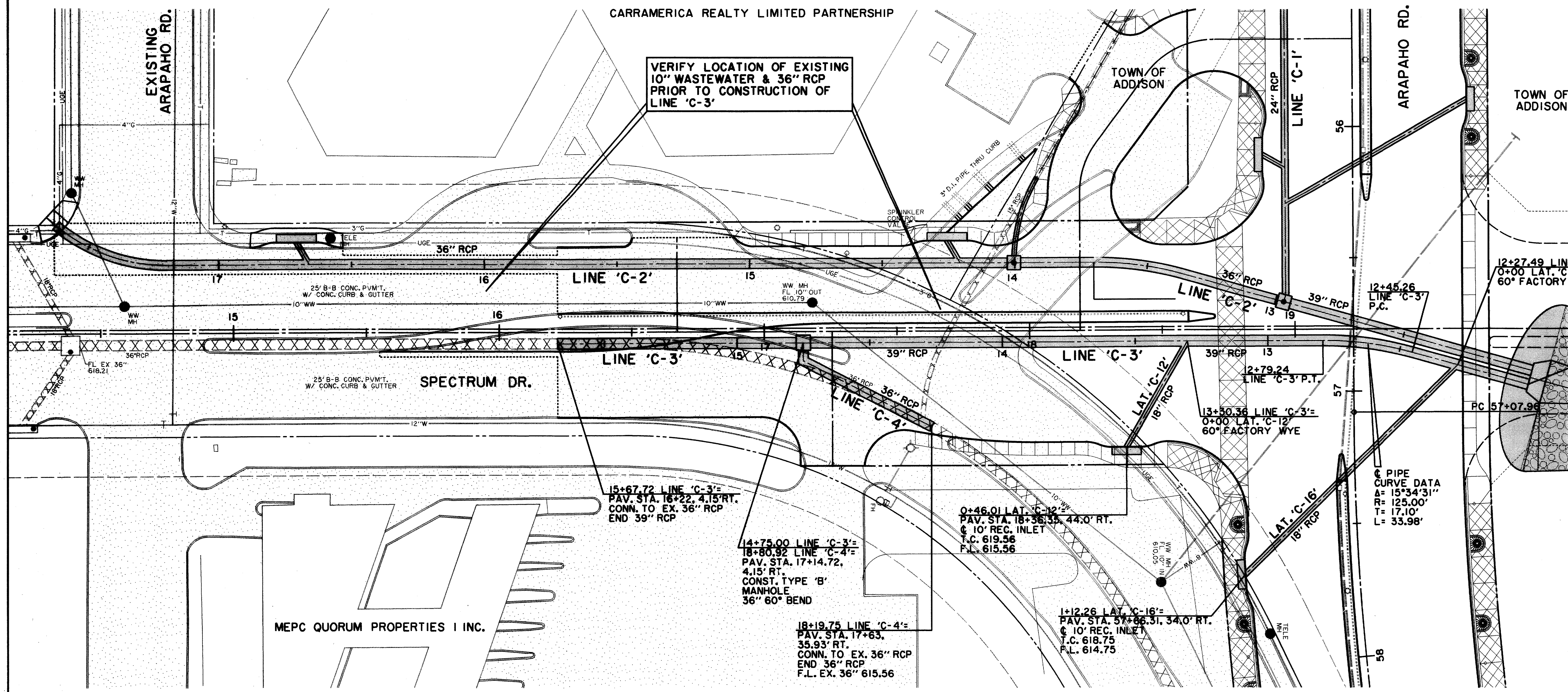
12+27.49 LINE 'C-3'=  
0+00 LAT. 'C-16'  
60° FACTORY WYE

12+45.26  
LINE 'C-3'  
P.C.

12+00.00 LINE 'C-3'=  
PAV. STA. 56+97.67, 65.60' LT.  
CONST. DOUBLE TYPE 'B'  
HEADWALL FOR 42" RCP

**LEGEND**

ELECTRIC — ONE	WATER — W
○ LIGHT POLE	FH FIRE HYDRANT
pp POWER POLE	WM METER
← GUY WIRE	T WATER VALVE
TELEPHONE — T	MISC.
● TELEPHONE MANHOLE	48" RCP R.C.P. REMOVAL
□ TELEPHONE PEDESTAL	— CHAIN LINK FENCE
TS TELEPHONE SIGN	— WOOD FENCE
GAS — G	— EXISTING ASPHALT
GM GAS METER	— EXISTING DIRT OR GRAVEL
GS GAS SIGN	— EX. CONCRETE
LAND USE	— TREE/TREE LINE
R.R. RAILROAD SIGN	— EXISTING CURB
□ SIGN	— PROP. CURB
SURVEY	— EX. PROPERTY LINE
I.R. FOUND IRON ROD	— PROP. CENTERLINE
□ TEMP BENCHMARK	— PROP. R.O.W.
WASTEWATER — WW	— PROP. INLET
WM WASTEWATER MANHOLE	PVMT TOP OF PAVEMENT
CO CLEANOUT	T.C. TOP OF CURB
	C.R. CURB RETURN



**BENCHMARKS:**  
USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND, ELEV. 650.61

"□" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD, ELEV. 630.61

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

10-28-97

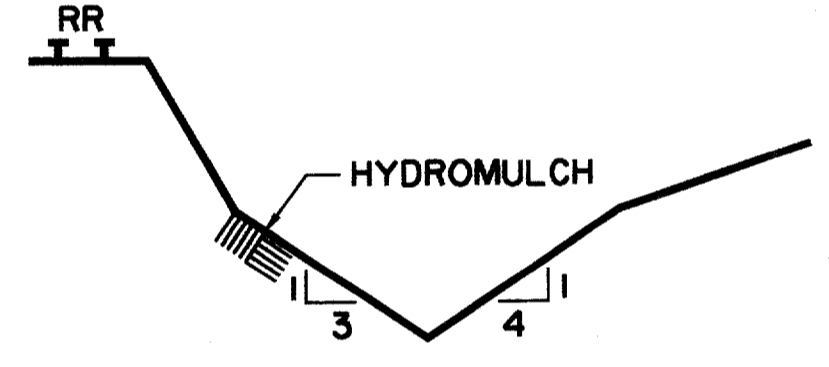
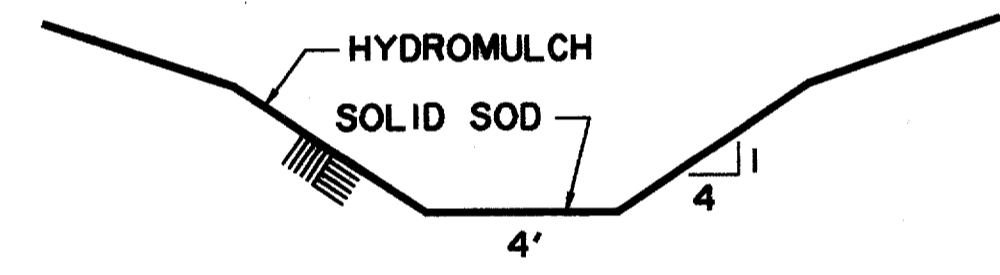
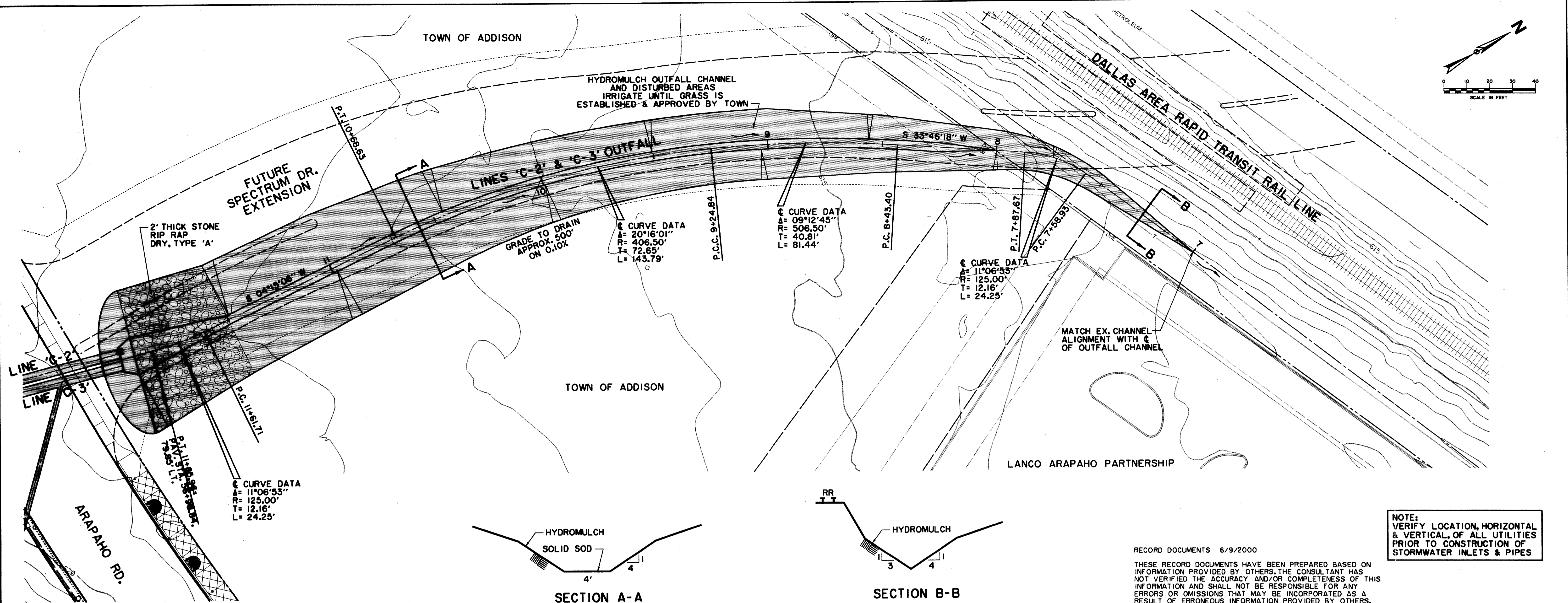
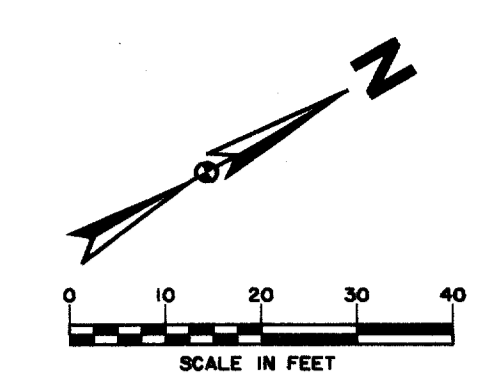
**STORMWATER PLAN & PROFILE**  
**LINE 'C-3'**

**ARAPAHO ROAD**  
ADDISON ROAD TO DALLAS NORTH TOLLWAY  
TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>v</sub> 1"=20' V <sub>v</sub> 1"=6'	OCT 97	1772-01	ST-11

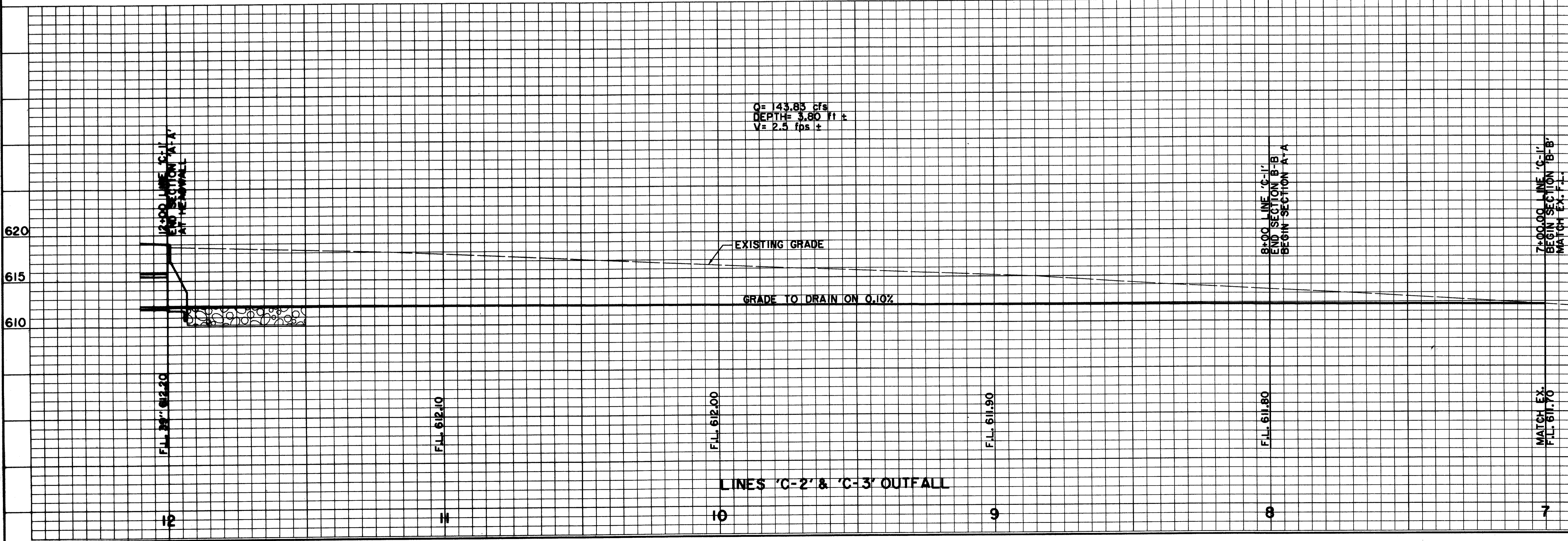
PROJECT NO. 1772-01-01  
 DRAWING NO. ST-11  
 DATE: OCT 97  
 SCALE: H<sub>v</sub> 1"=20', V<sub>v</sub> 1"=6'  
 PROJECT: ARAPAHO ROAD, ADDISON ROAD TO DALLAS NORTH TOLLWAY, TOWN OF ADDISON, TEXAS  
 DRAWN BY: HZI  
 CHECKED BY: HZI  
 APPROVED BY: KAR  
 DATE: OCT 97  
 PROJECT NO.: 1772-01  
 DRAWING NO.: ST-11



RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

**NOTE:**  
VERIFY LOCATION, HORIZONTAL & VERTICAL, OF ALL UTILITIES PRIOR TO CONSTRUCTION OF STORMWATER INLETS & PIPES



**BENCHMARKS:**  
USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61

"I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



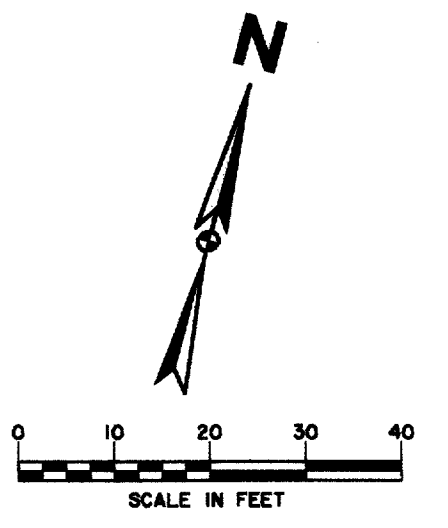
STORMWATER PLAN & PROFILE							
LINES 'C-2' & 'C-3' OUTFALL							
ARAPAHO ROAD							
ADDISON ROAD TO DALLAS NORTH TOLLWAY							
TOWN OF ADDISON, TEXAS							
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin							
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.	
HZI	HZI	KAR	H <sub>1</sub> 1"=20' V <sub>1</sub> 1"=6'	OCT 97	1772-01	ST-12	

FOR INFORMATION ONLY: THIS PLAN AND PROFILE ARE BASED ON FIELD SURVEY DATA AND EXISTING CONDITIONS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

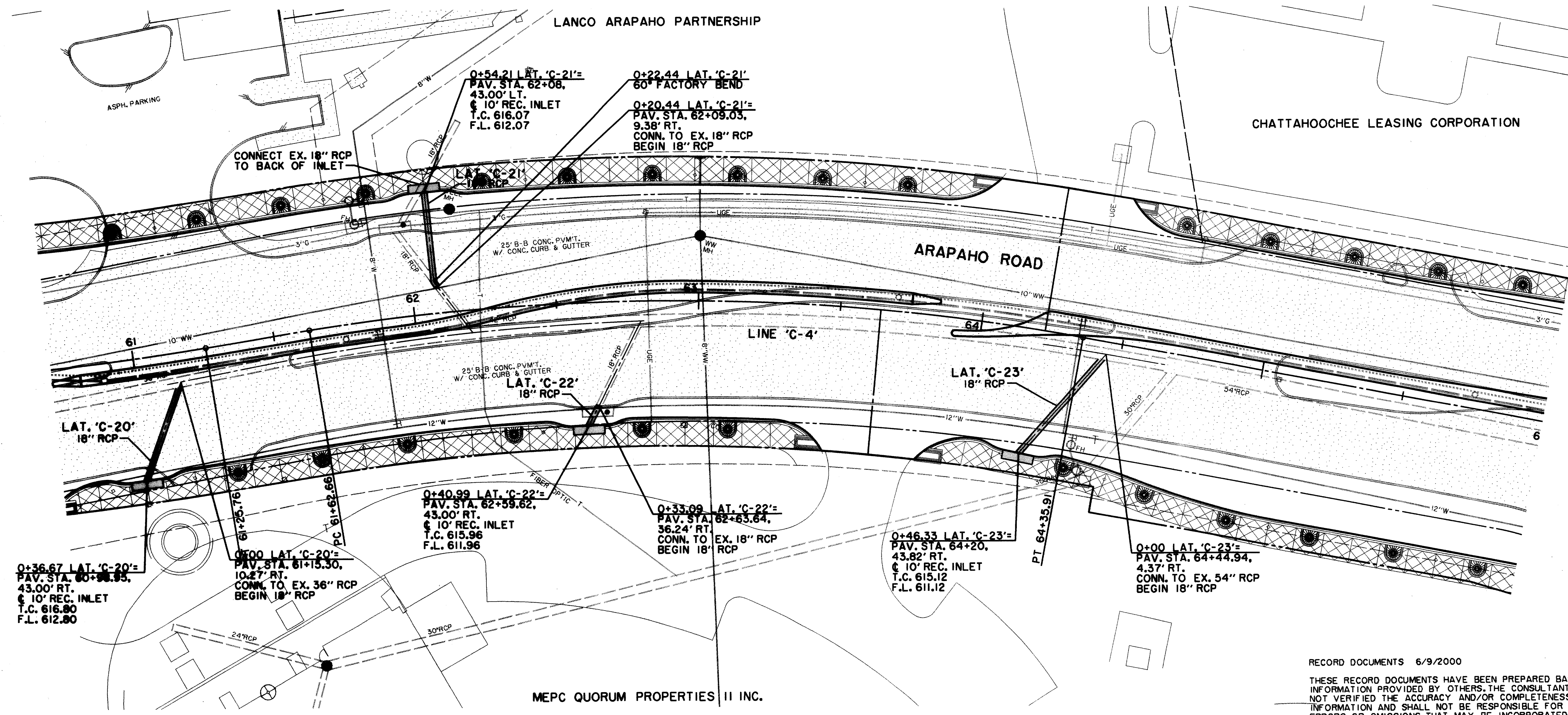
LANCO ARAPAHO PARTNERSHIP

CHATAHOOCHEE LEASING CORPORATION

MEPC QUORUM PROPERTIES II INC.



NOTE: VERIFY LOCATION, HORIZONTAL & VERTICAL, OF ALL UTILITIES PRIOR TO CONSTRUCTION OF STORMWATER INLETS & PIPES



LEGEND

- ELECTRIC — OHE —
- WATER — W —
- LIGHT POLE
- FIRE HYDRANT
- PP POWER POLE
- WM METER
- GUY WIRE
- T WATER VALVE
- TELEPHONE — T —
- TELEPHONE MANHOLE
- 48" RCP
- MISC.
- TELEPHONE PEDESTAL
- CHAIN LINK FENCE
- TS TELEPHONE SIGN
- WOOD FENCE
- GAS — G —
- EXISTING ASPHALT
- GM GAS METER
- EXISTING DIRT OR GRAVEL
- GS GAS SIGN
- EX. CONCRETE
- LAND USE
- RR RAILROAD SIGN
- TREE/TREE LINE
- SIGN
- EXISTING CURB
- SURVEY
- PROP. CURB
- FOUNDED IRON ROD
- EX. PROPERTY LINE
- TEMP BENCHMARK
- PROP. CENTERLINE
- PROP. R.O.W.
- WASTEWATER — WW —
- PROP. INLET
- WM WASTEWATER MANHOLE
- PVMT TOP OF PAVEMENT
- CO CLEANOUT
- T.C. TOP OF CURB
- C.R. CURB RETURN

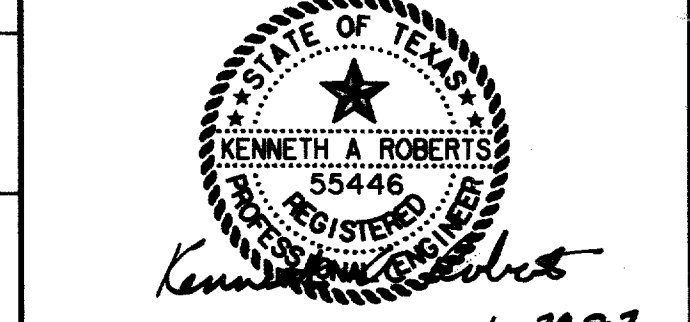
RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

LATERALS NOT PROFILED

BENCHMARKS:  
USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND, ELEV. 650.61

625 "I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD, ELEV. 630.61

620 THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



STORMWATER PLAN & PROFILE  
LINE 'C-4'  
ARAPAHO ROAD  
ADDISON ROAD TO DALLAS NORTH TOLLWAY  
TOWN OF ADDISON, TEXAS  
Huitt-Zollars, Inc./Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Austin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H:V = 20':1"	OCT 97	1772-01	ST-13

CHATAHOOCHEE LEASING CORPORATION

0+00 LAT. 'C-26'  
PAV. STA. 67+14.39  
53.96' LT.  
CONN. TO EX. 60" RCP  
BEGIN 21" RCP

0+56.12 LAT. 'C-26'  
END 21" RCP  
PAV. STA. 66+55  
47.57' LT.  
10' REC. INLET  
T.C. 613.40  
F.L. 609.40

LAT. 'C-26'  
21" RCP

ARAPAHO ROAD

LINE 'C-4'

LAT. 'D-1'  
21" RCP

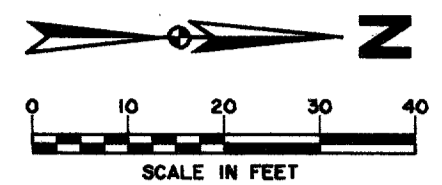
PAV. STA. 66+63.48  
59.96' RT.  
14' STD. INLET  
T.C. 613.65  
F.L. 610.15

0+56.90 LAT. 'D-1'  
END 21" RCP

0+44.27 LAT. 'D-1'  
45' FACTORY BEND

0+42.27 LAT. 'D-10'  
PAV. STA. 66+80.15  
54.33' RT.  
CONN. TO EX. 21" RCP  
BEGIN 21" RCP

DALLAS NORTH  
TOLLWAY



NOTE:  
VERIFY LOCATION, HORIZONTAL  
& VERTICAL, OF ALL UTILITIES  
PRIOR TO CONSTRUCTION OF  
STORMWATER INLETS & PIPES

LEGEND

ELECTRIC — OHE	WATER — W
○ LIGHT POLE	FH ○ FIRE HYDRANT
PP ○ POWER POLE	WM ○ METER
— GUY WIRE	T WATER VALVE
TELEPHONE — T	48" RCP
MH ○ TELEPHONE MANHOLE	X X X R.C.P. REMOVAL
○ TELEPHONE PEDESTAL	— CHAIN LINK FENCE
TS ○ TELEPHONE SIGN	— WOOD FENCE
GAS — G	— EXISTING ASPHALT
GM ○ GAS METER	— EXISTING DIRT OR GRAVEL
GS ○ GAS SIGN	— EX. CONCRETE
LAND USE	— TREE/TREE LINE
R/R RAILROAD SIGN	— EXISTING CURB
○ SIGN	— PROP. CURB
SURVEY	— EX. PROPERTY LINE
I.R. FOUND IRON ROD	— PROP. CENTERLINE
□ TEMP BENCHMARK	— PROP. R.O.W.
WASTEWATER — WW	— PROP. INLET
WM ○ WASTEWATER MANHOLE	— P.V.M.T.
CO ○ CLEANOUT	— T.C.
	— C.R.

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

LATERALS NOT PROFILED

BENCHMARKS:

USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61

'D' ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61

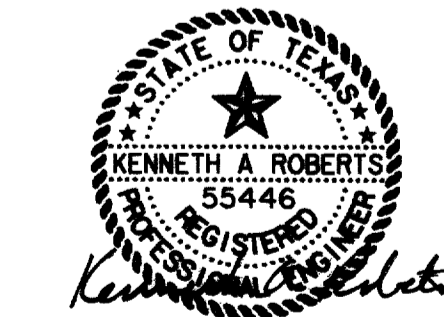
625

620

615

610

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



10-24-97

REVISED  
11/16/98

STORMWATER PLAN & PROFILE  
LINE 'C-4'

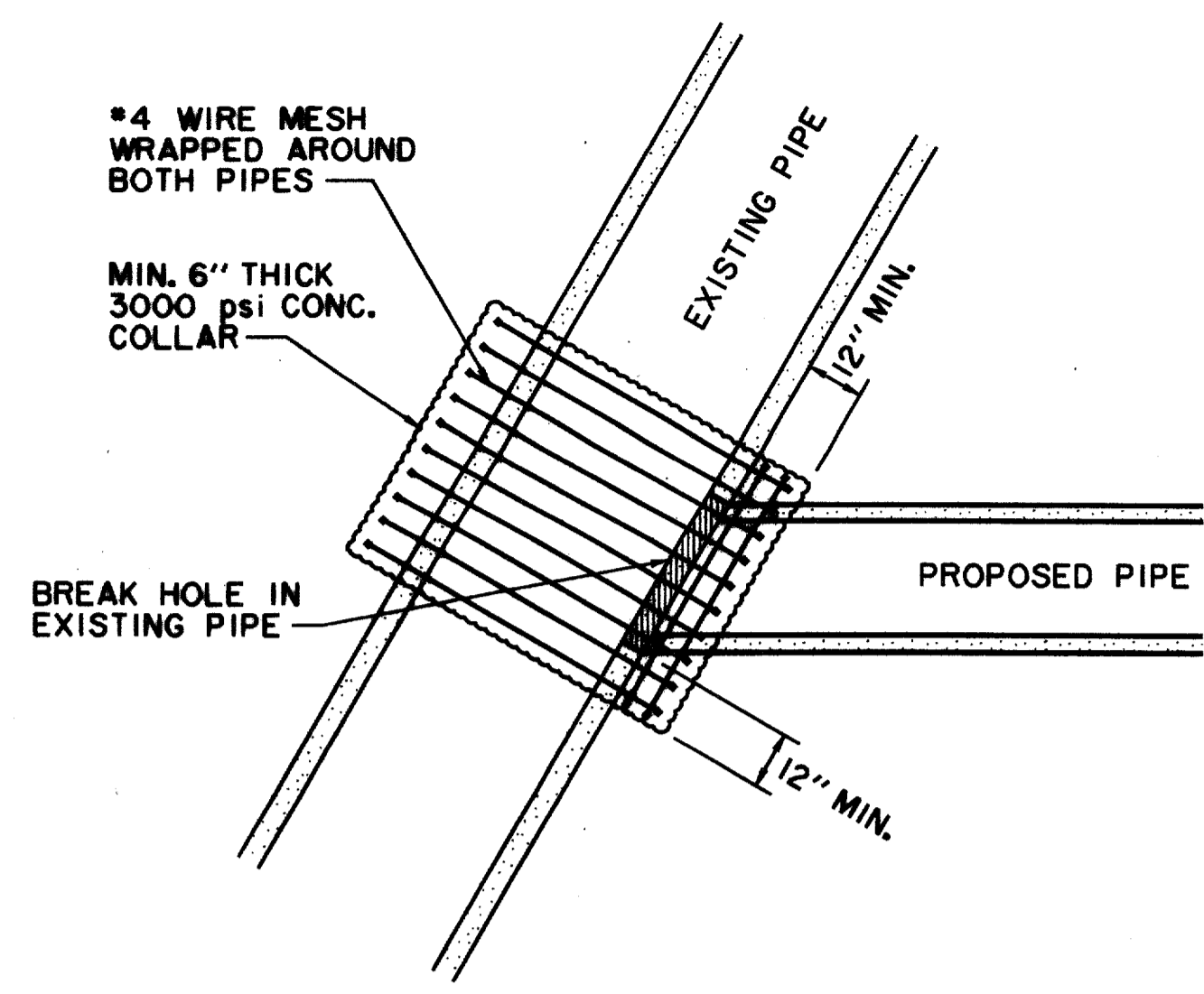
ARAPAHO ROAD

ADDISON ROAD TO DALLAS NORTH TOLLWAY

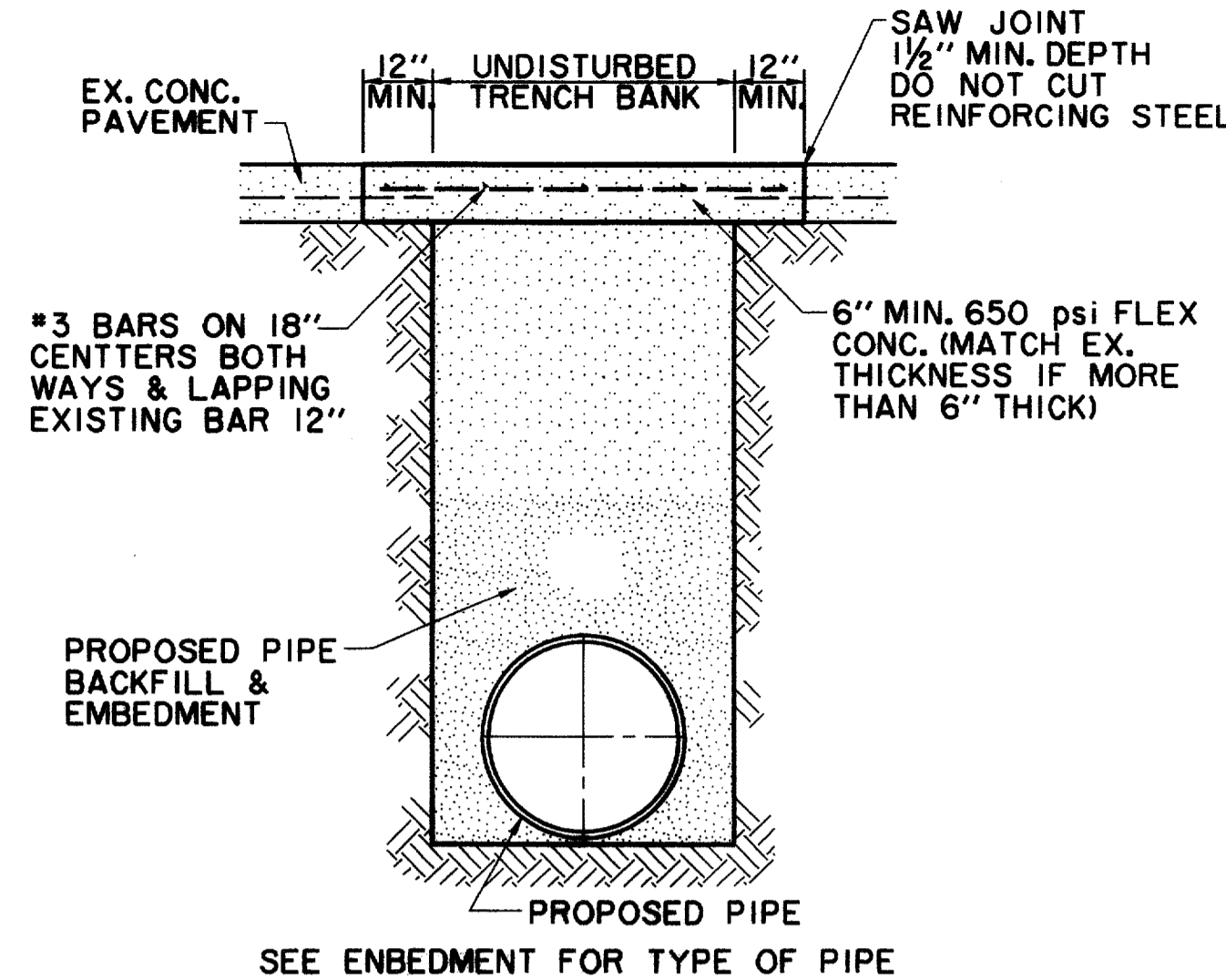
TOWN OF ADDISON, TEXAS

Huitl-Zollars, Inc./Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Tustin

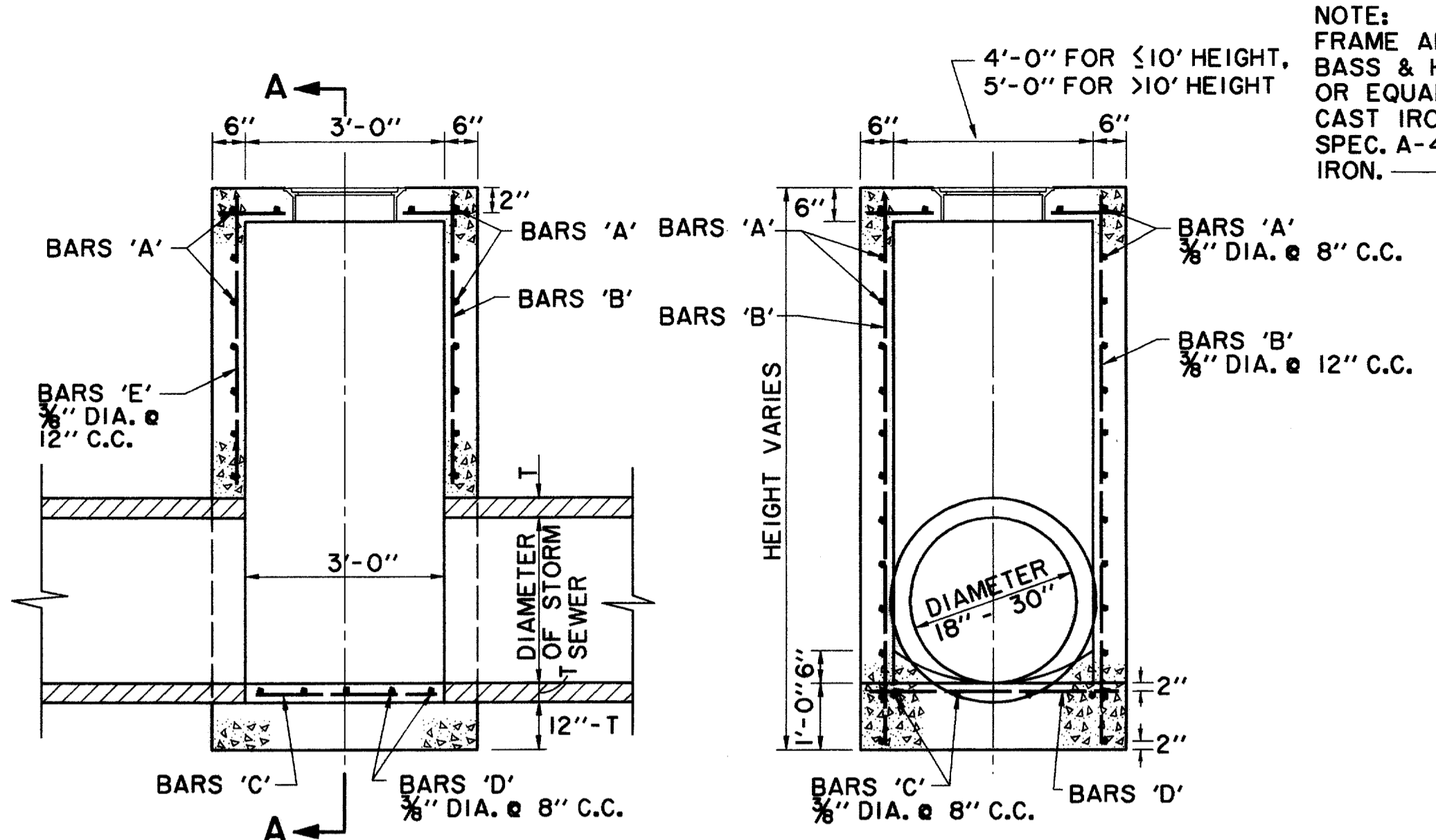
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>v</sub> 1"=20' V <sub>v</sub> 1"=6'	OCT 97	1772-01	ST-14



**PROPOSED PIPE TO EXISTING PIPE WYE CONNECTION**  
N.T.S.



**CONCRETE STREET OR DRIVEWAY REPAIR**  
N.T.S.



**ELEVATION**  
N.T.S.  
**TYPE A STORM SEWER MANHOLE**  
(FOR PIPE 18" TO 30" IN DIAMETER)

**SECTION A-A**  
N.T.S.

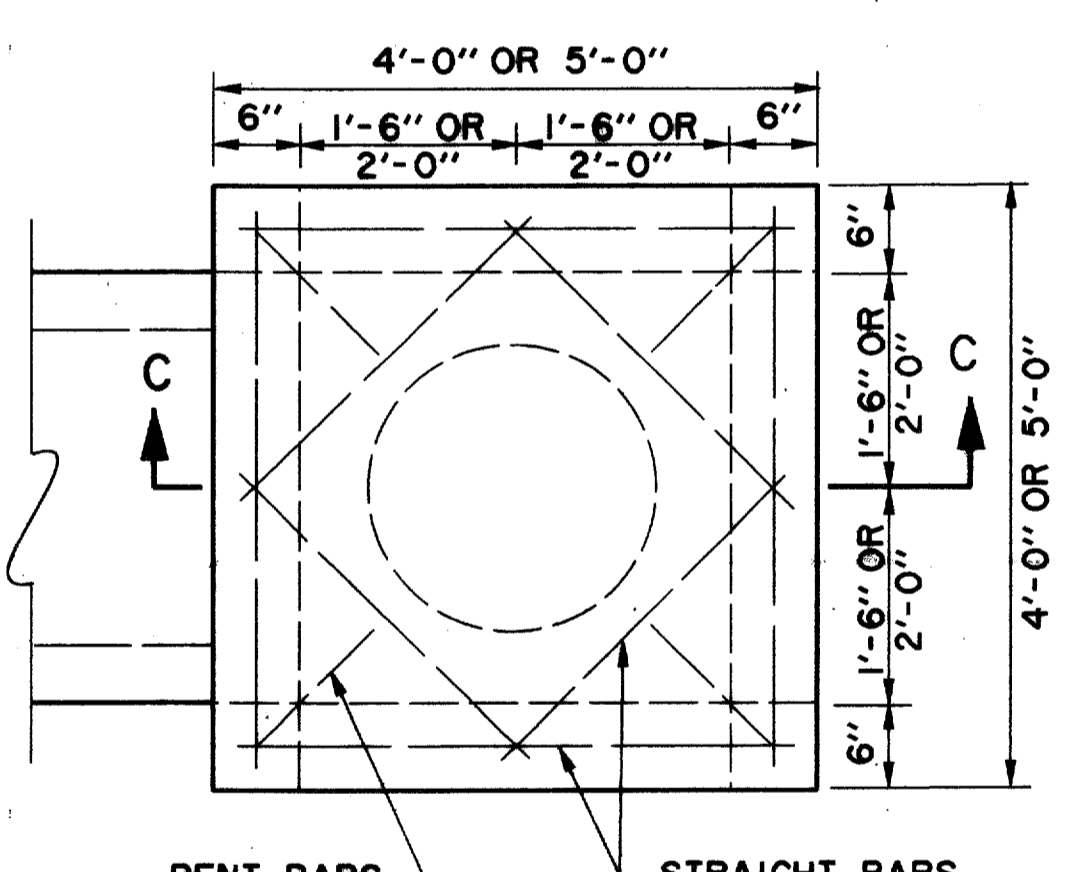
NOTE: FRAME AND COVER SHALL BE BASS & HAYS PATTERN NO. 400-24 OR EQUAL AND SHALL BE OF GRAY CAST IRON CONFORMING TO A.S.T.M. SPEC. A-48 FOR CLASS 30 CAST IRON.

PROVIDE 3/4" PREMOLDED EXPANSION JOINT BETWEEN MANHOLE AND CONCRETE PAVEMENT AND SEAL WITH SILICONE JOINT SEALANT

NOTE: MANHOLES AND INLETS GREATER THAN 4' IN DEPTH SHALL HAVE BASS AND HAYS MODEL MA STEPS OR APPROVED EQUAL

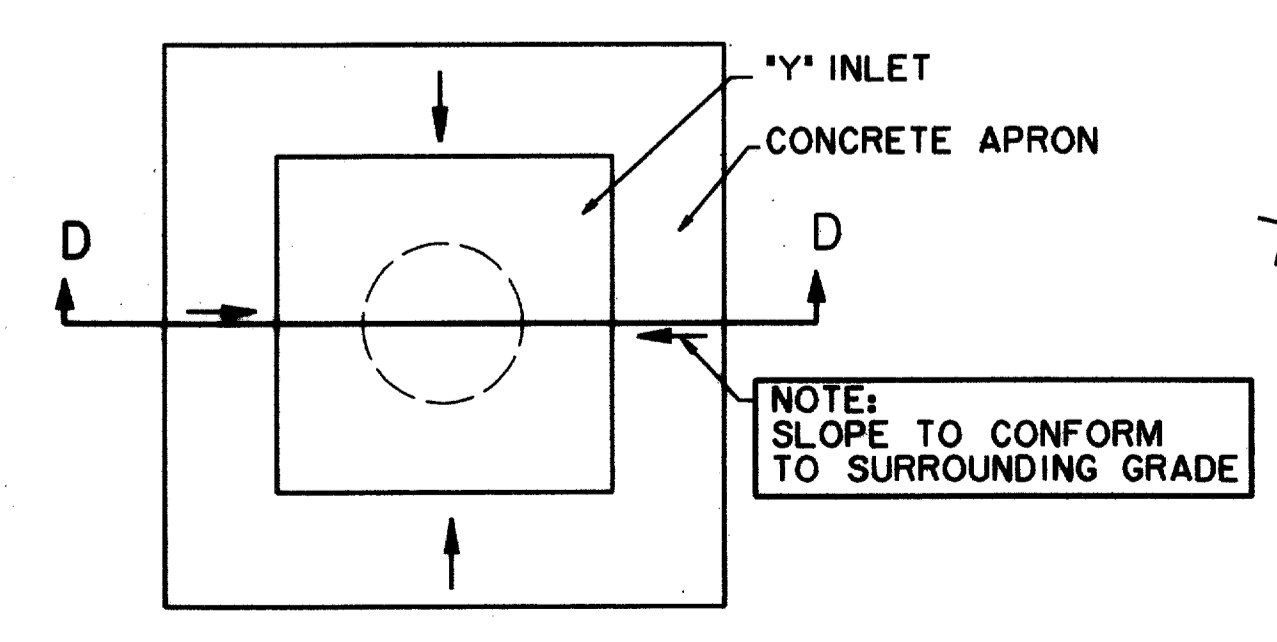
NOTE: STRUCTURAL CONCRETE TO BE MINIMUM 4200 p.s.i. UNLESS NOTED OTHERWISE

**TOP PLAN**  
**TYPE A & TYPE B**  
**STORM SEWER MANHOLE**  
N.T.S.  
NOTE MAXIMUM PIPE SIZE TO BE USED 78"

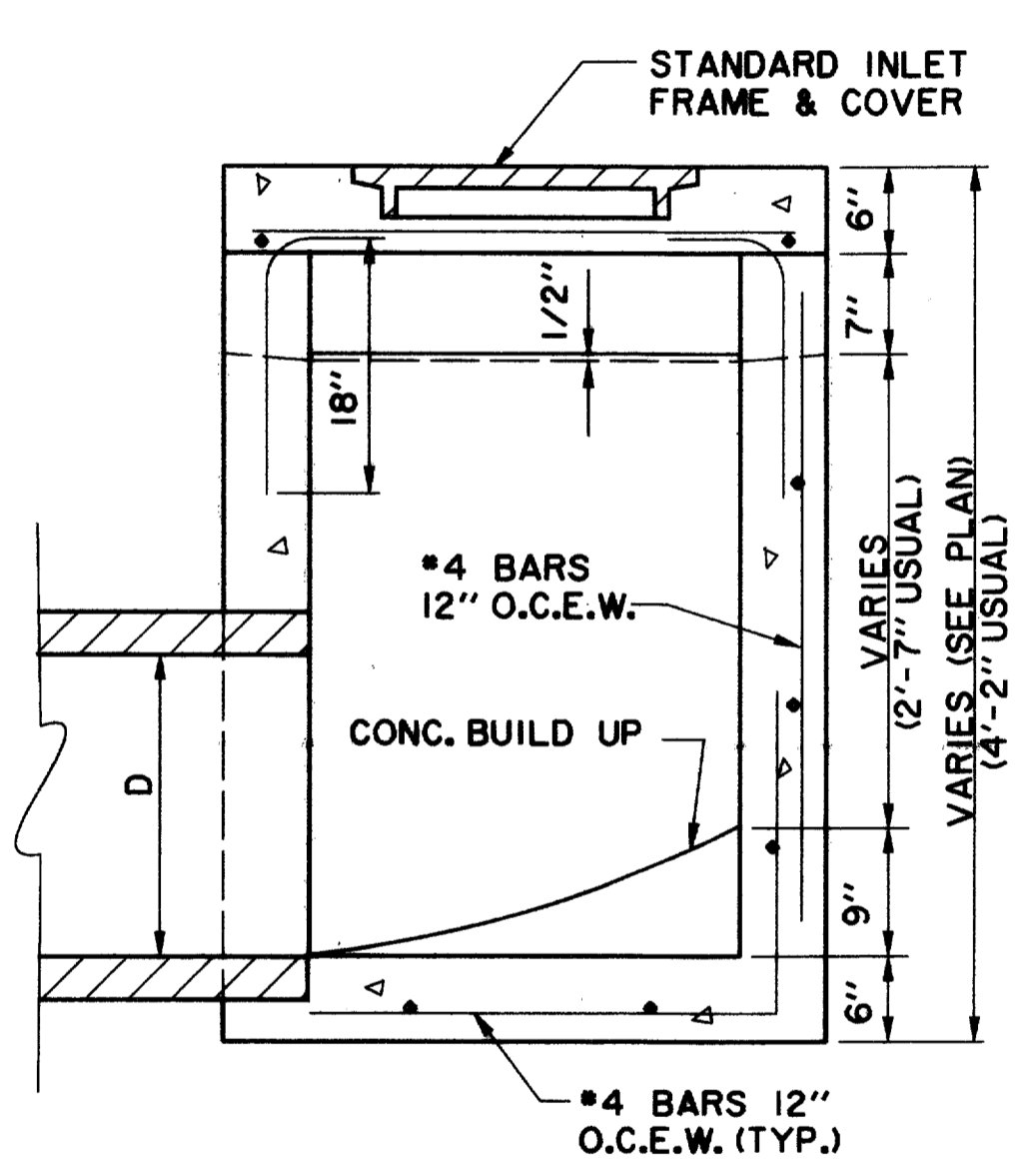


**STANDARD TYPE "Y" INLET**  
N.T.S.

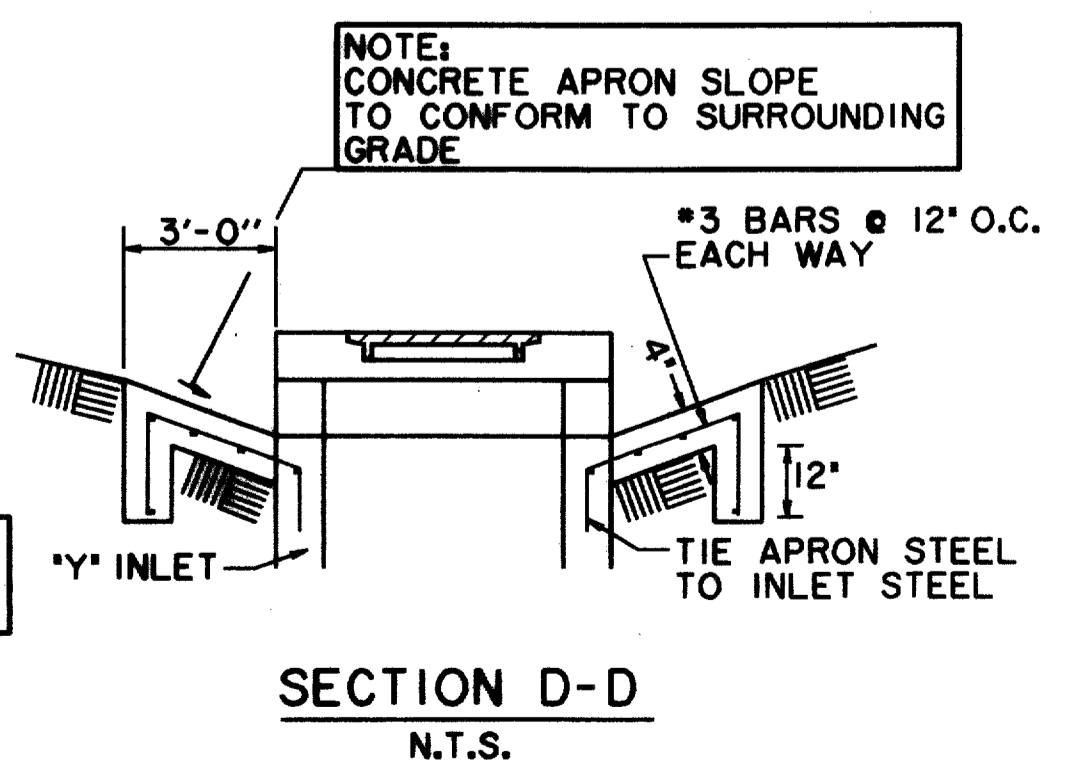
NOTE: ALL 'Y' INLETS TO HAVE CONCRETE APRON AROUND INLET



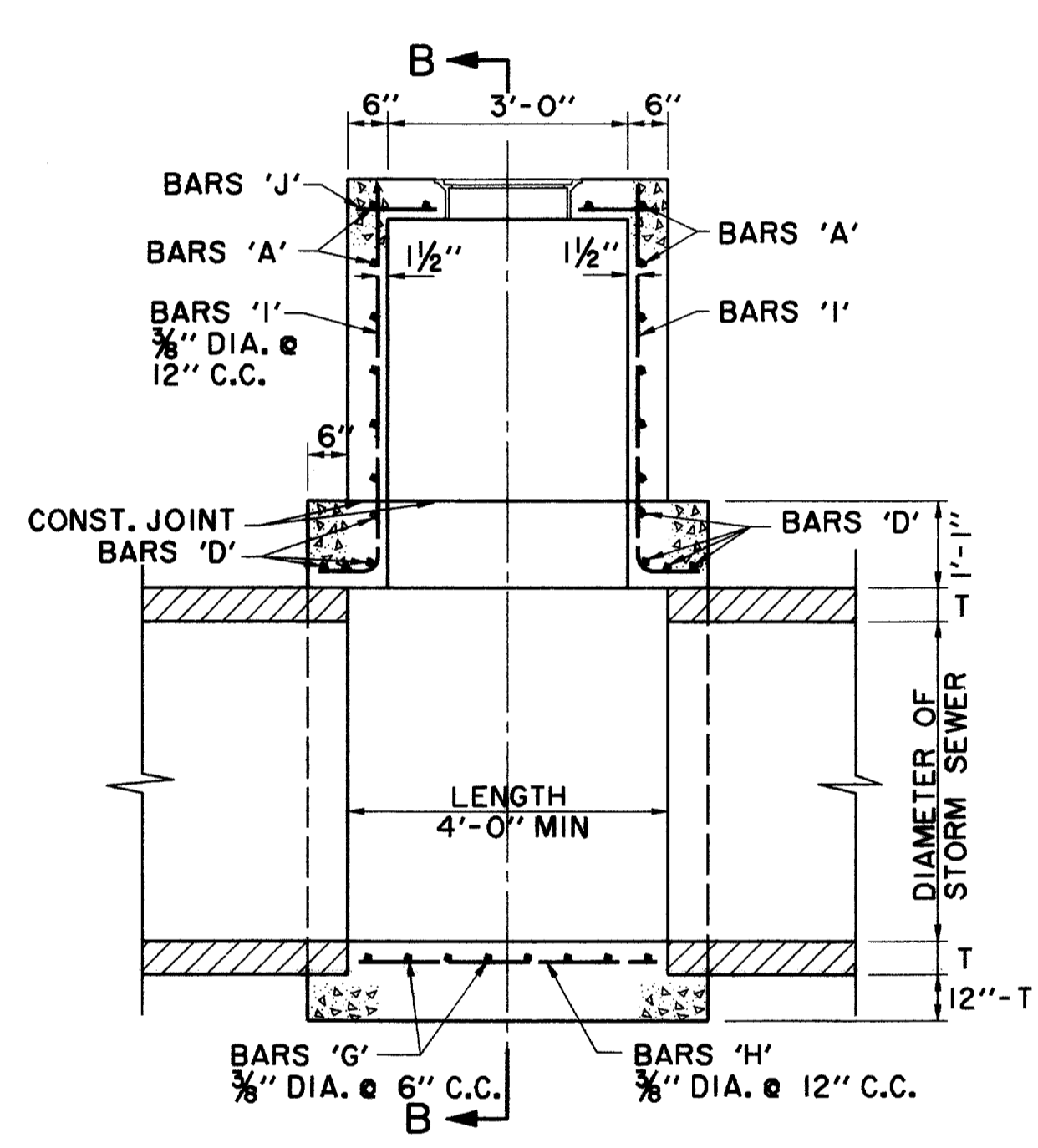
**"Y" INLET CONCRETE APRON PLAN**  
N.T.S.



**SECTION C-C**  
N.T.S.

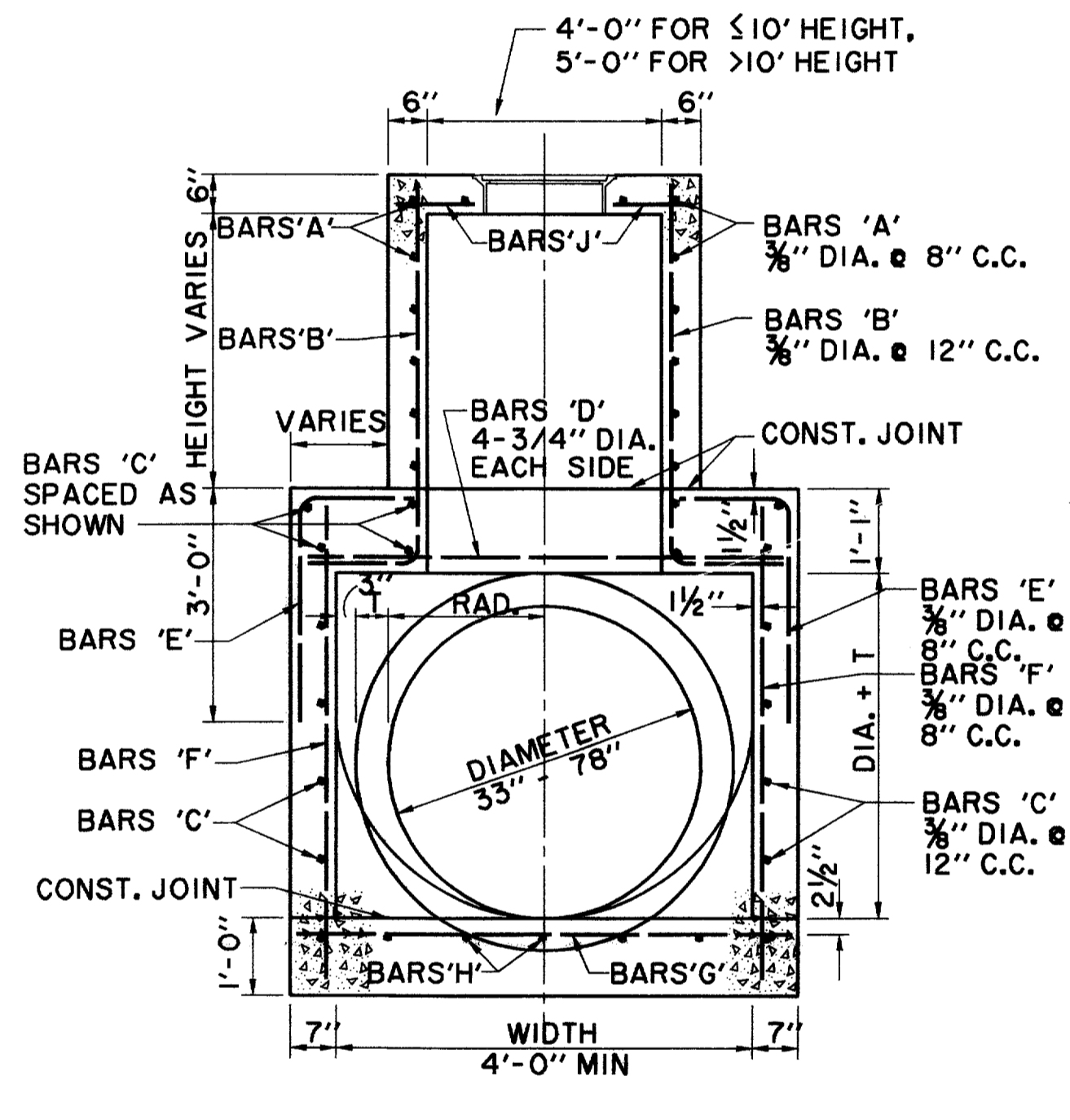


**SECTION D-D**  
N.T.S.

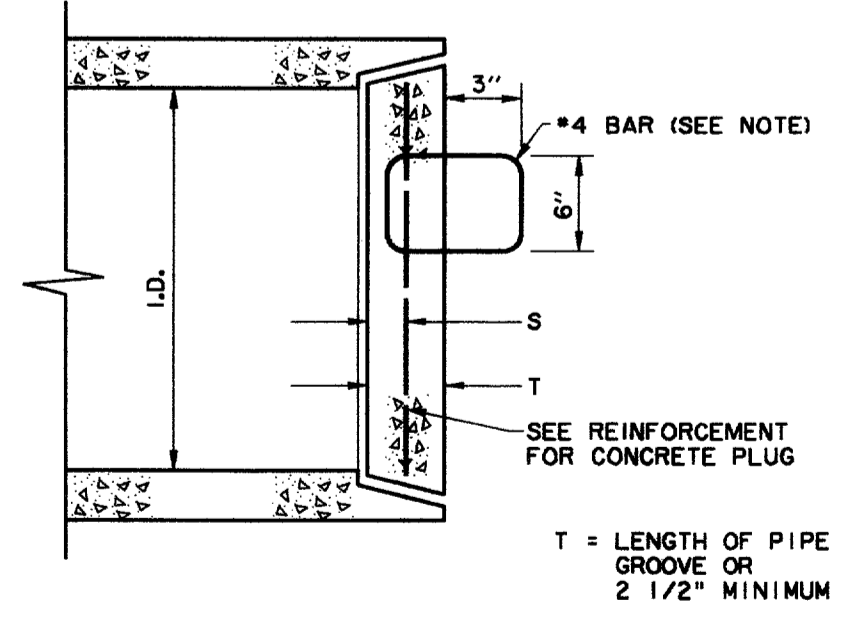


**ELEVATION**  
N.T.S.

**TYPE B STORM SEWER MANHOLE**  
(FOR PIPE 33" TO 78" IN DIAMETER)



**SECTION B-B**  
N.T.S.

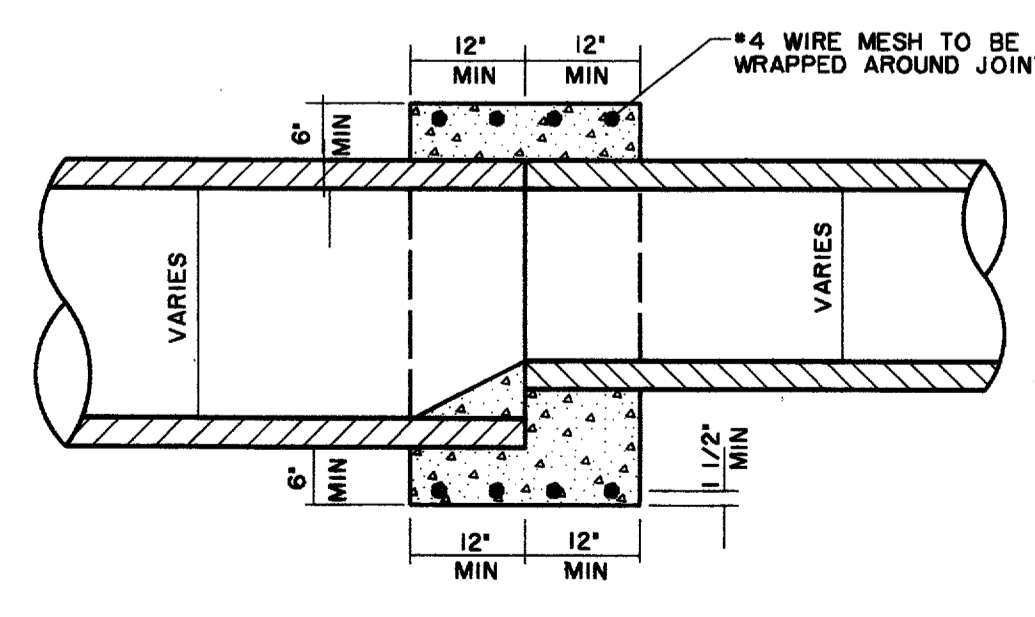


**REINFORCEMENT FOR CONCRETE PLUG**

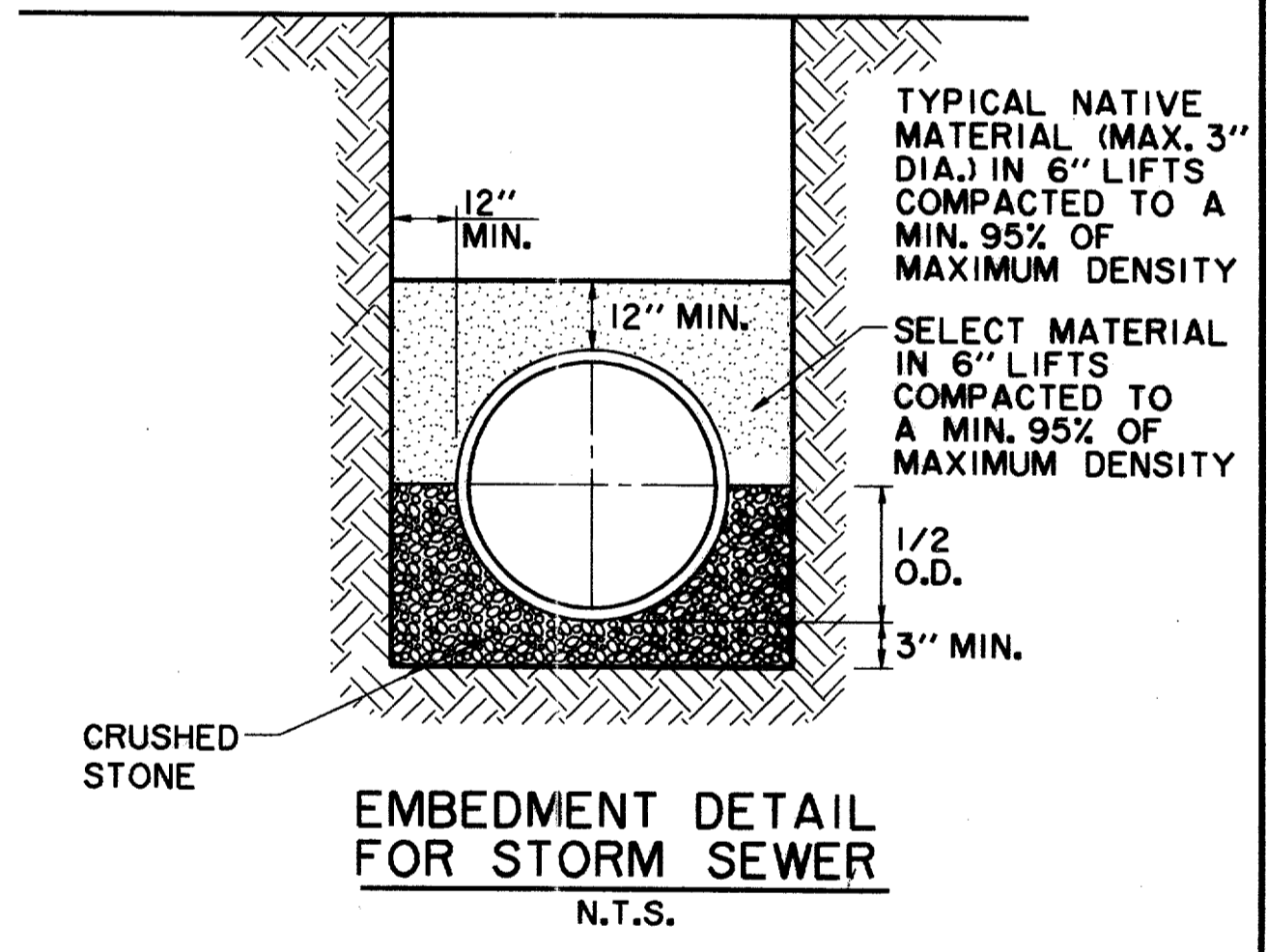
PIPE SIZE	REINF. BAR	DISTANCE (C-C)	S
18"-39"	#3	12" BOTH WAYS	1/2 T
42"-54"	#3	12" BOTH WAYS	1/3 T
60"-72"	#4	12" BOTH WAYS	1/4 T

NOTE: STEEL HANDLE FOR REINFORCED CONCRETE PIPE PLUG SHALL BE LOCATED 1/4 I.D. ABOVE CENTER POINT OF PLUG. TWO STEEL HANDLES WILL BE REQUIRED ON PLUGS OF 36" PIPES OR LARGER AND SHALL BE PLACED 1/4 I.D. ABOVE CENTER OF PLUG.

**CONCRETE PLUG DETAIL**



**DETAIL OF CONCRETE COLLAR**  
FOR END TO END EXTENSIONS



**EMBEDMENT DETAIL**  
FOR STORM SEWER  
N.T.S.

RECORD DOCUMENTS 6/9/2000

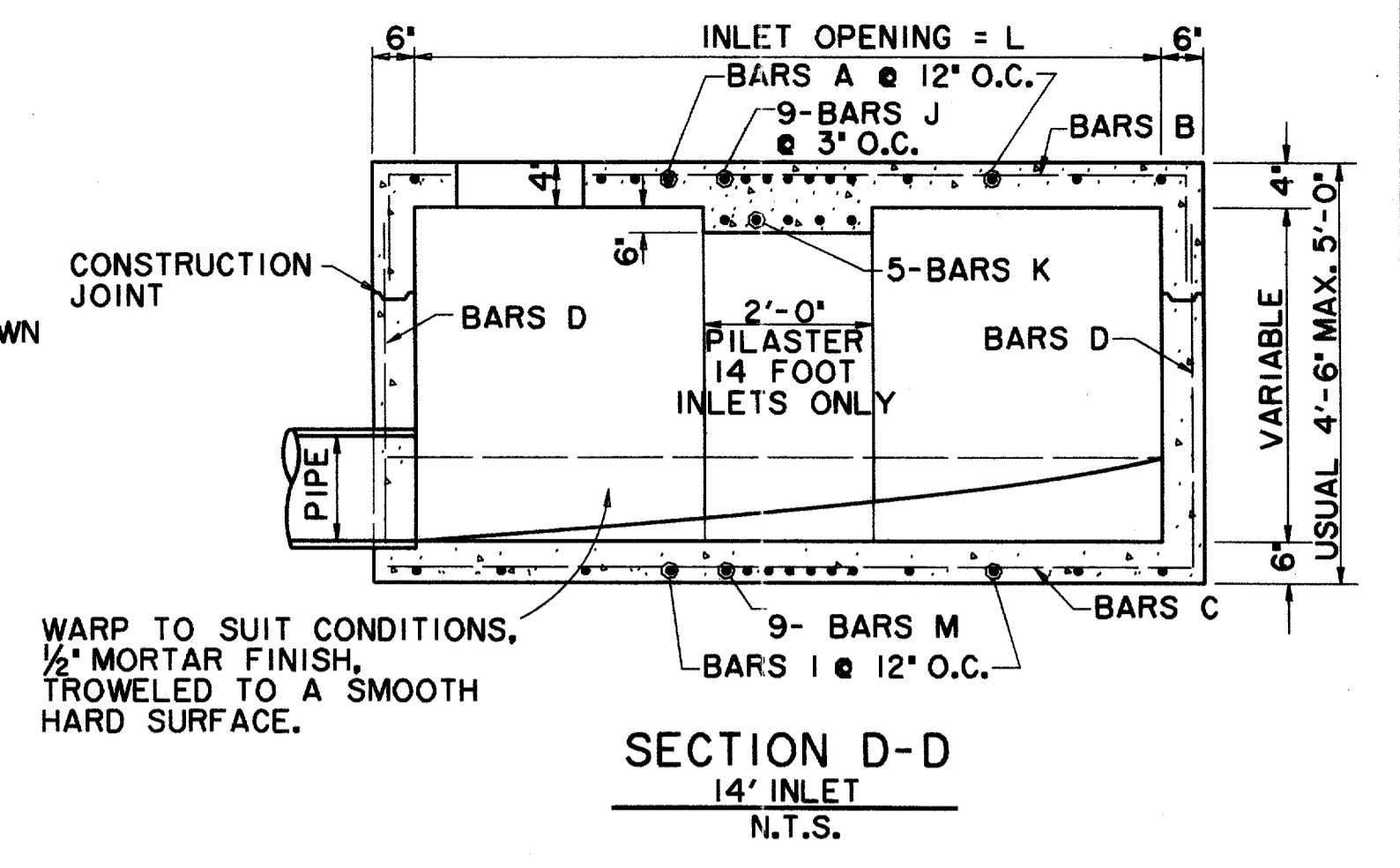
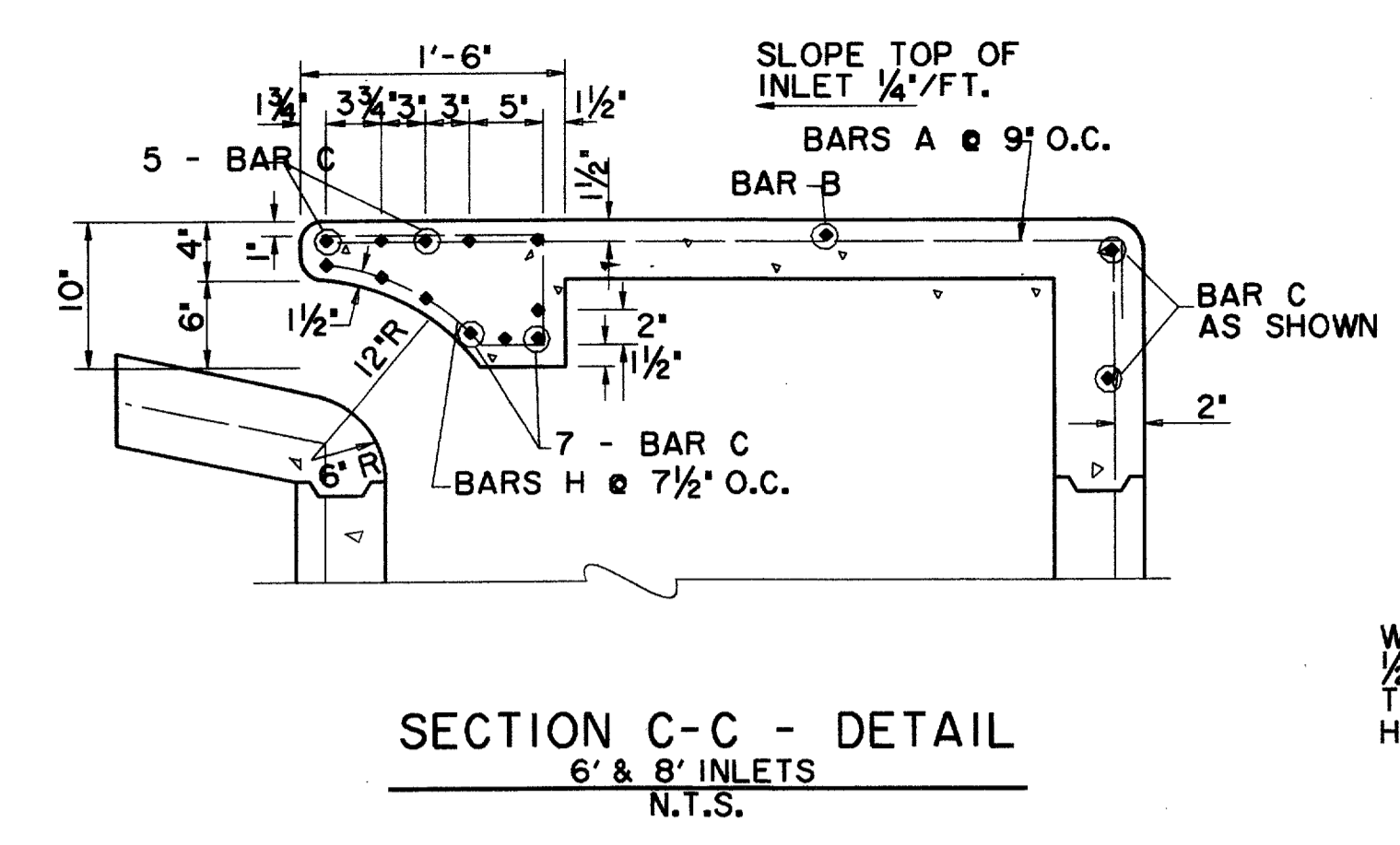
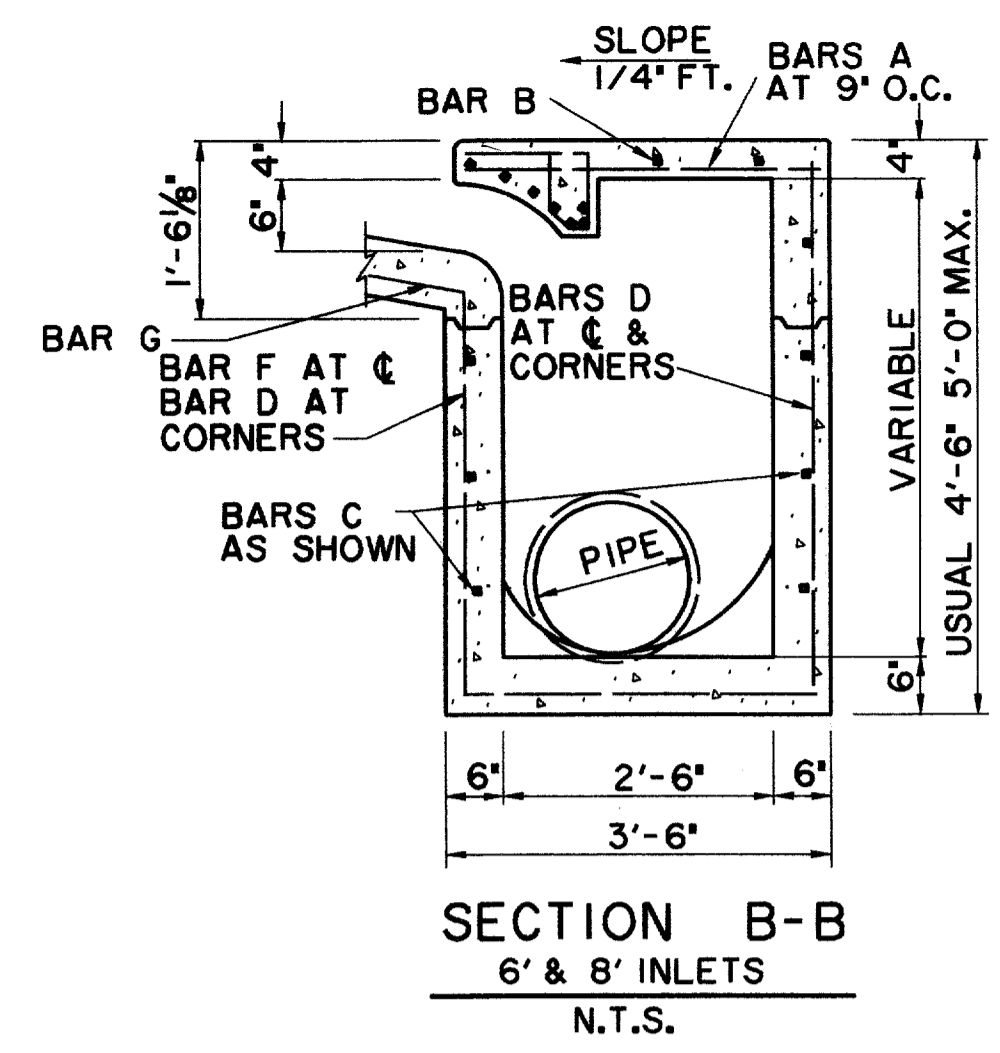
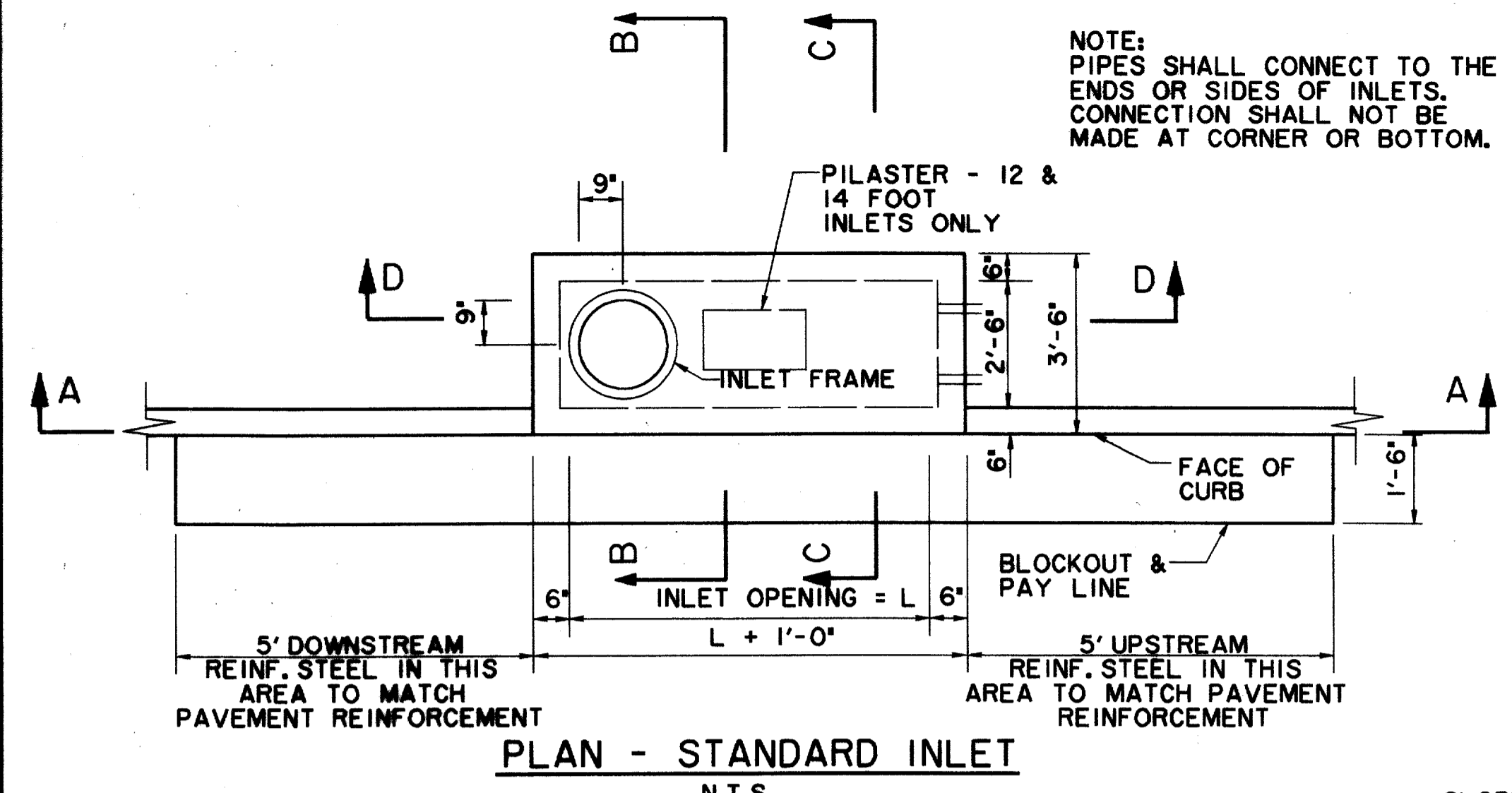
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

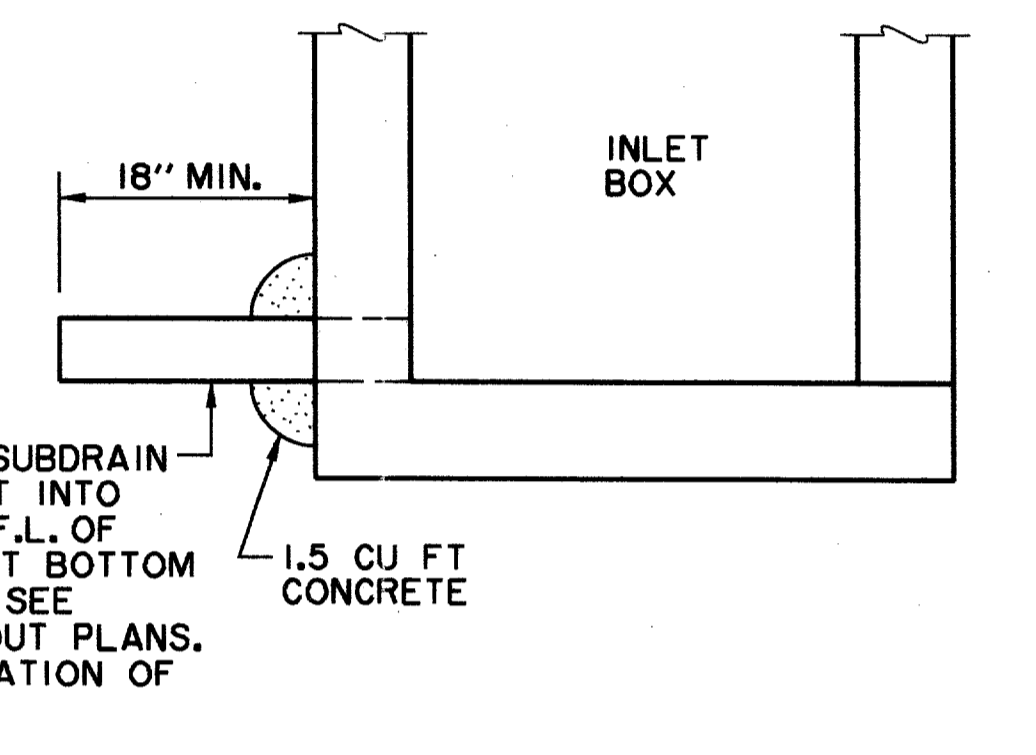
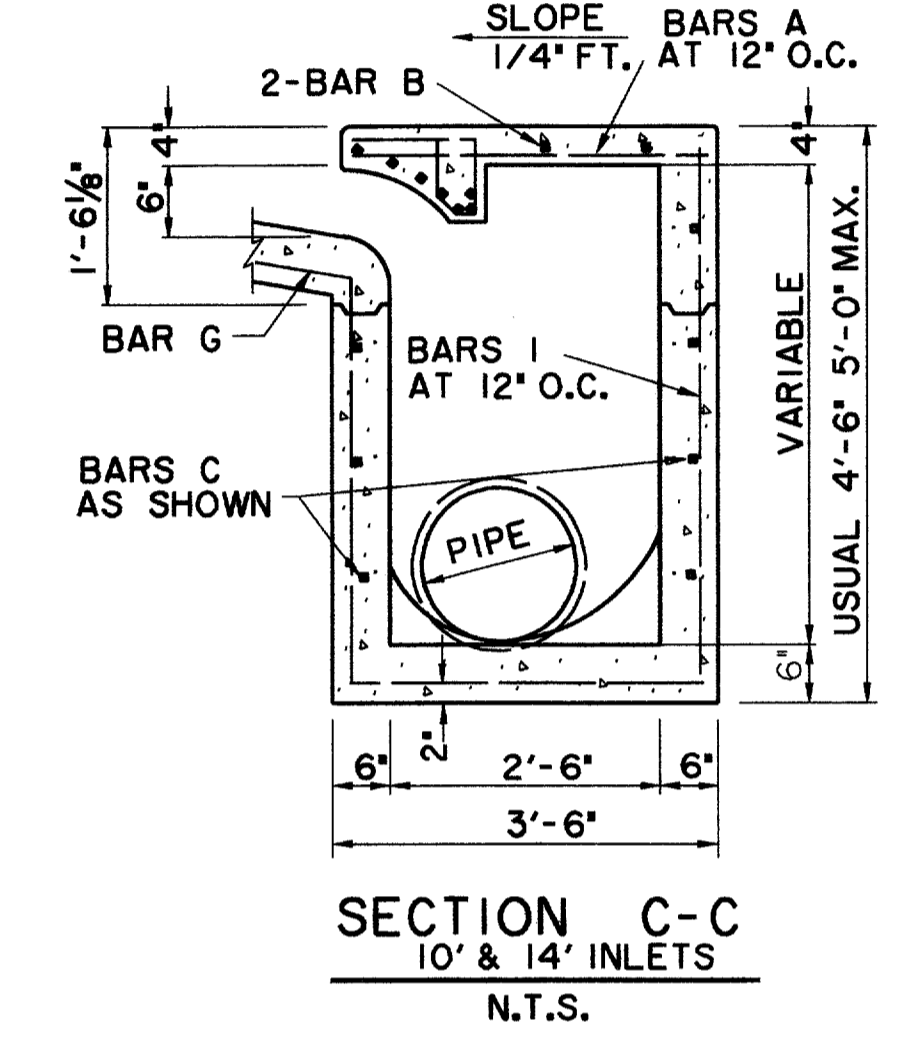
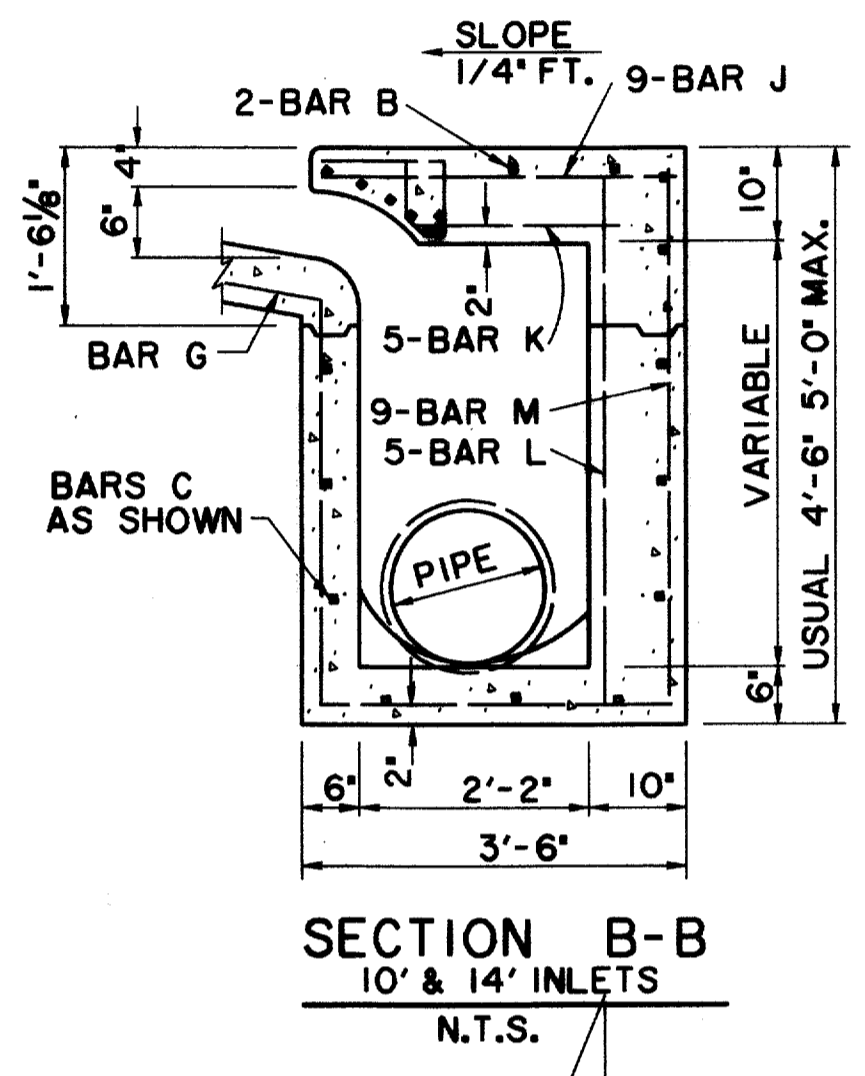
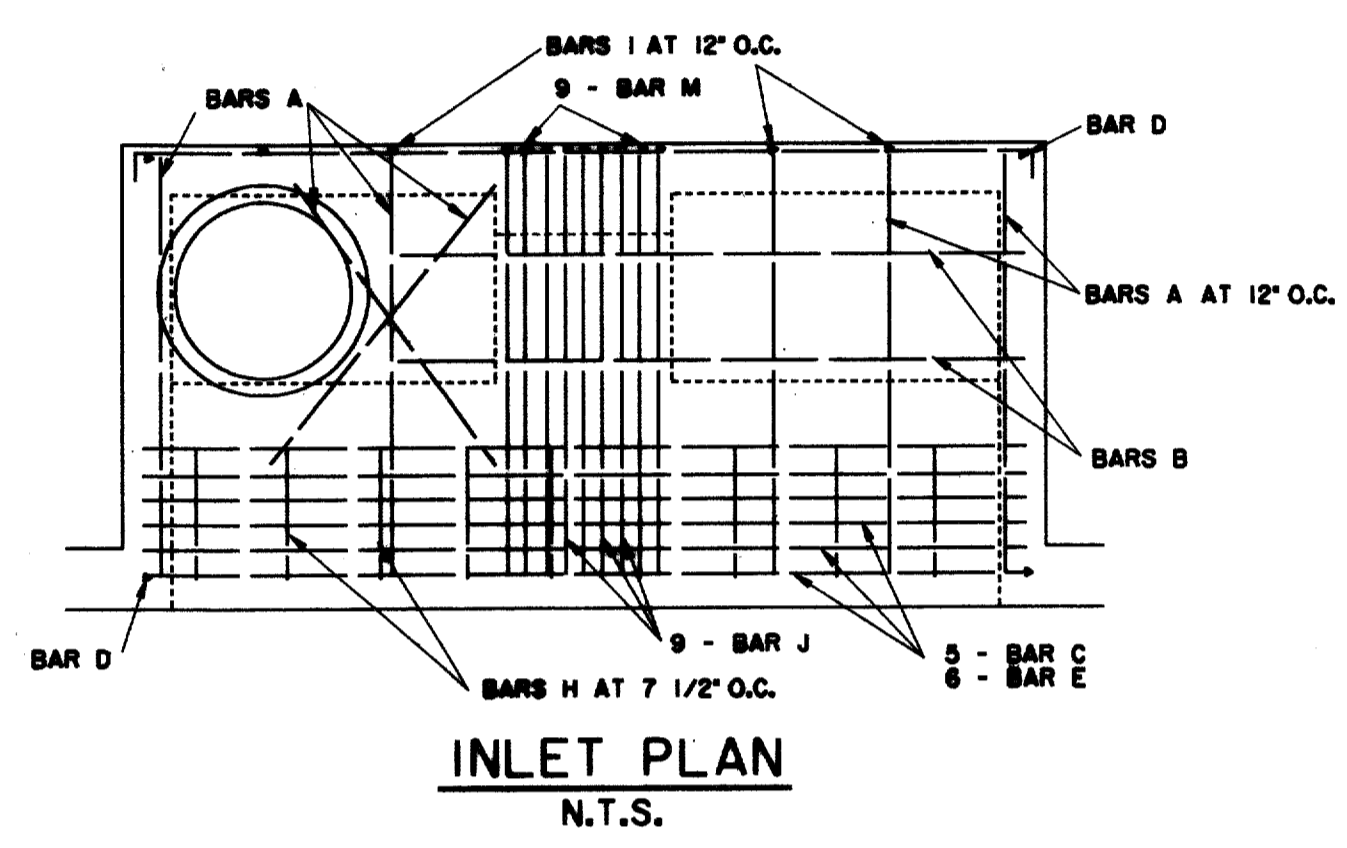
Kenneth A. Roberts  
10-28-97

STORMWATER DETAILS						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollers, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	N.T.S.	OCT 97	1772-01	ST-15

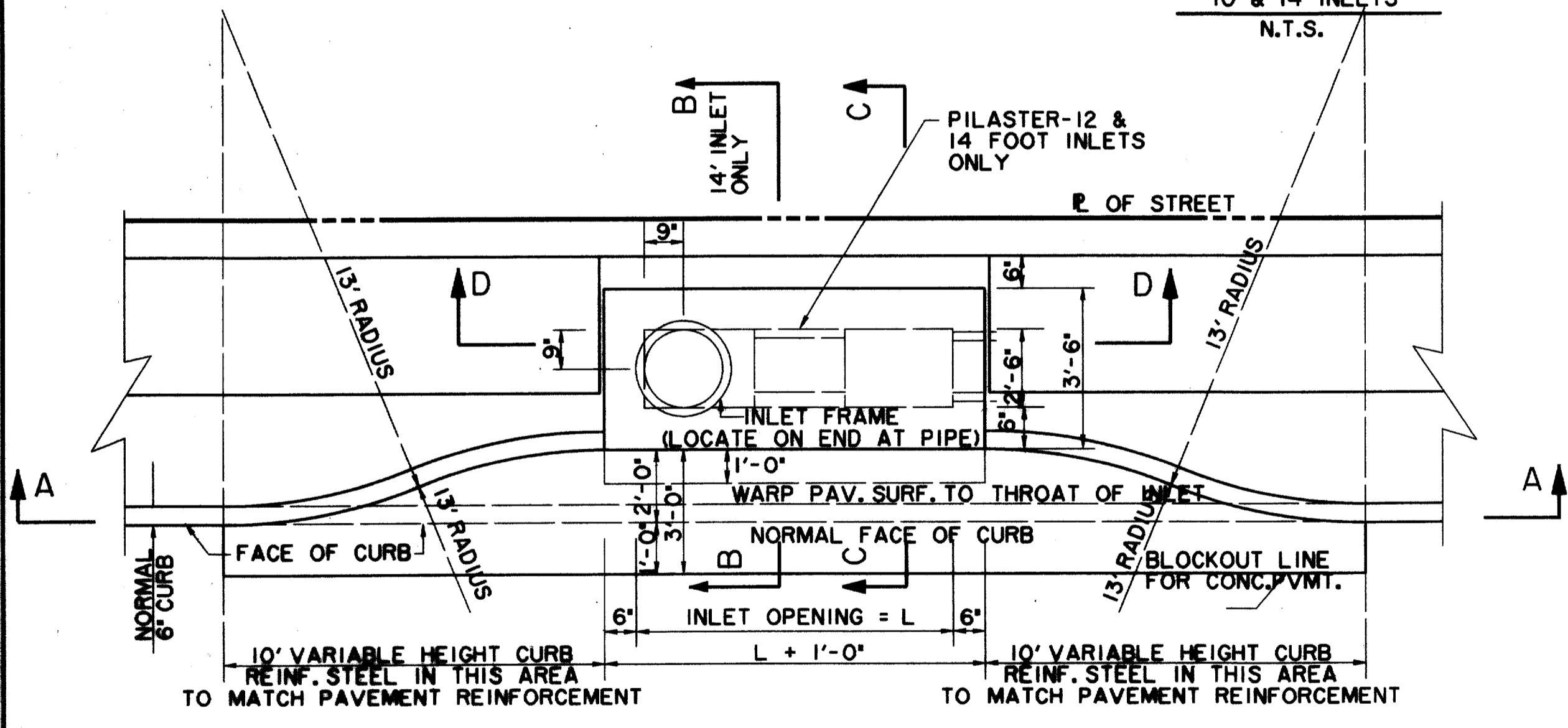
NOTE:  
PIPES SHALL CONNECT TO THE  
ENDS OR SIDES OF INLETS.  
CONNECTION SHALL NOT BE  
MADE AT CORNER OR BOTTOM.



WARP TO SUIT CONDITIONS,  
1/2" MORTAR FINISH,  
TROWELED TO A SMOOTH  
HARD SURFACE.



4" PVC SCH 40 SUBDRAIN  
PIPE TO BE CAST INTO  
INLET WALL AT F.L. OF  
INLET WHEN INLET BOTTOM  
IS CONSTRUCTED. SEE  
LANDSCAPE LAYOUT PLANS.  
COORDINATE LOCATION OF  
CONNECTION.

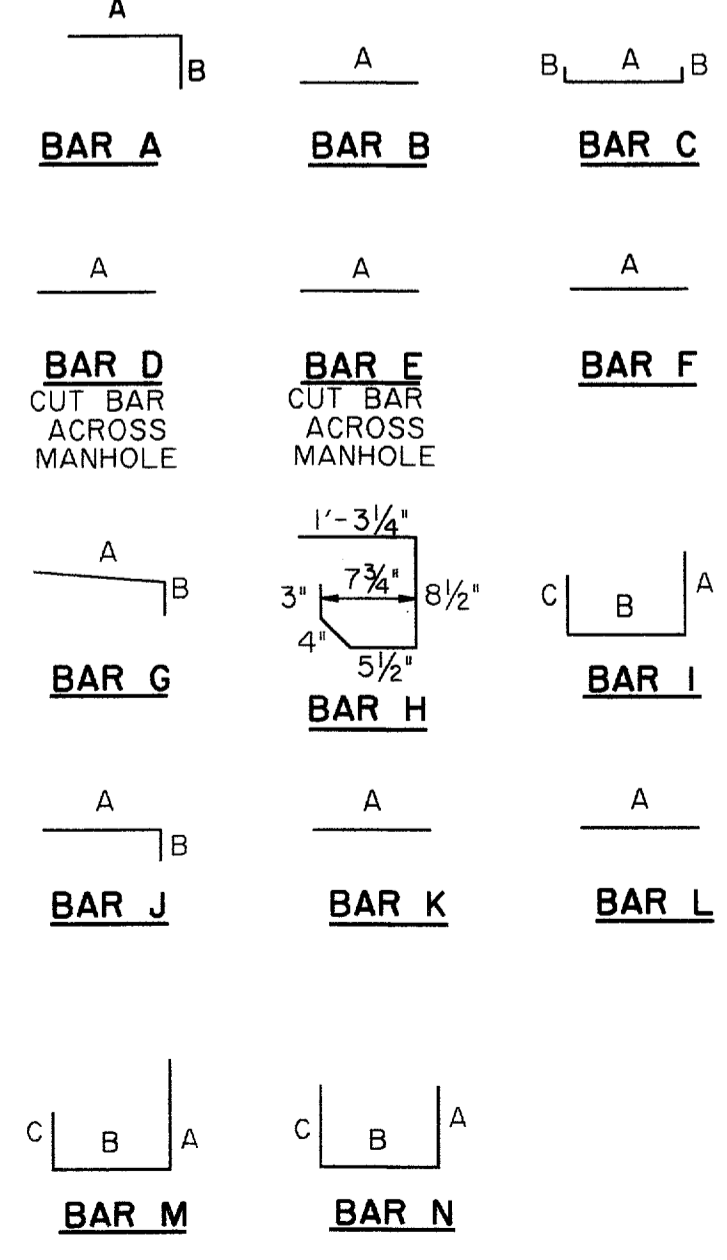


REINFORCING STEEL SCHEDULE

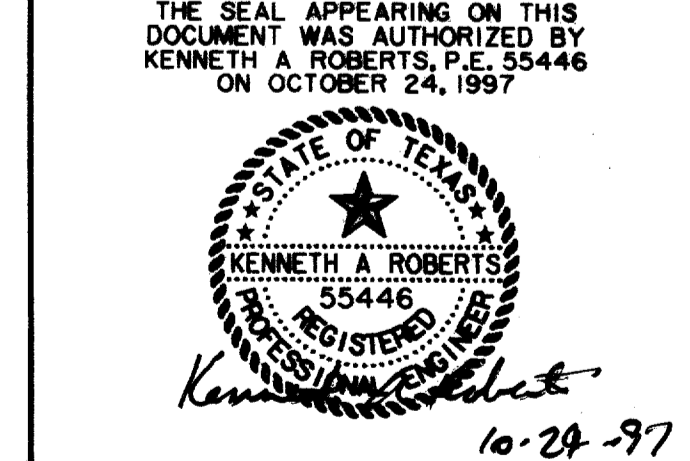
DIMENSION SHOWN ARE FOR MAXIMUM SIZE INLETS

INLET LENGTH	BAR TYPE	BAR DIA. (1/8 IN)	NO. REQ'D	BAR DIMENSIONS	A	B	C
6	A	3	9	3'-2"	0'-3"		
6	B	3	1	4'-10"			
6	C	4	15	6'-8"	0'-6"		
6	D	4	5	4'-8"			
6	F	4	1	3'-2"			
6	G	3	5	2'-0"	1'-3"		
6	H	6	6				
6	N	3	3	3'-2"	3'-2"	3'-2"	
8	A	3	12	3'-2"	0'-3"		
8	B	3	1	6'-10"			
8	C	4	15	8'-8"	0'-6"		
8	D	4	5	4'-8"			
8	F	4	1	3'-2"			
8	G	3	5	2'-0"	1'-3"		
8	H	6	8				
8	N	3	3	3'-2"	3'-2"	3'-2"	
10	A	3	10	3'-2"	0'-3"		
10	B	3	2	8'-10"			
10	C	4	16	10'-8"	0'-6"		
10	D	4	4	4'-8"			
10	E	5	6	10'-8"			
10	G	3	5	2'-0"	1'-3"		
10	H	3	15				
10	I	4	8	4'-8"	3'-2"	3'-2"	
10	L	4	5	4'-3"			
12	A	3	12	3'-2"	0'-3"		
12	C	4	16	10'-10"	0'-6"		
12	D	4	4	4'-8"			
12	E	5	6	12'-8"			
12	G	3	5	2'-0"	1'-3"		
12	H	3	18				
12	I	4	10	4'-8"	3'-2"	3'-2"	
12	J	5	9	3'-2"	1'-3"		
12	K	4	5	2'-3"			
12	L	4	5	4'-3"			
14	A	3	14	3'-2"	0'-3"		
14	B	3	2	10'-10"			
14	C	4	16	14'-8"	0'-6"		
14	D	4	4	4'-8"			
14	E	5	6	14'-8"			
14	G	3	5	2'-0"	1'-3"		
14	H	3	21				
14	I	4	12	4'-8"	3'-2"	3'-2"	
14	J	5	9	3'-2"	1'-3"		
14	K	4	5	2'-3"			
14	L	4	5	4'-3"			
14	M	5	9	4'-3"	3'-2"	3'-9"	

BAR DIAGRAMS



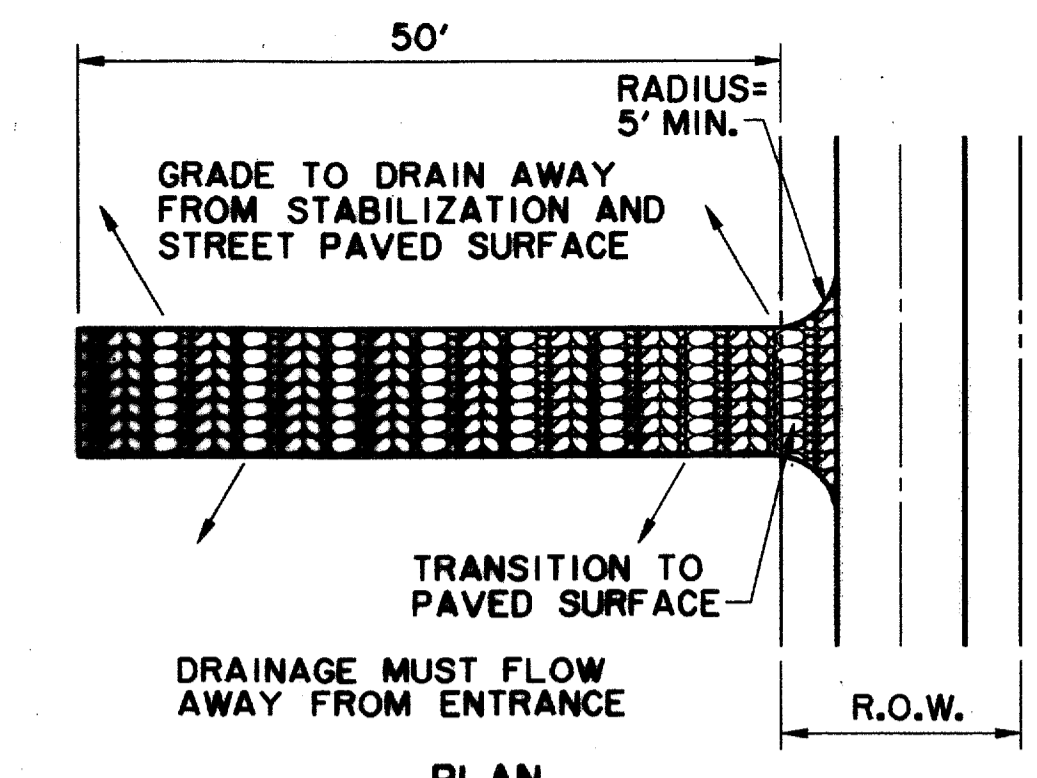
RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON  
INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS  
NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS  
INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY  
ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A  
RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



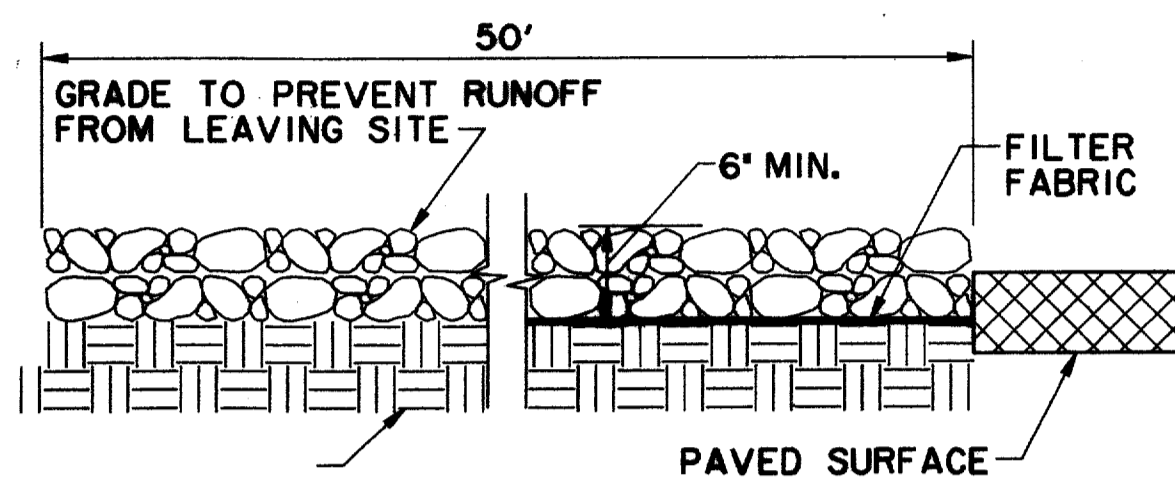
ADDENDUM #5,  
1/9/98

STORMWATER DETAILS						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huff-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	N.T.S.	OCT 97	1772-01	ST-16

SEE DIAGRAM FOR DIMENSIONS



PLAN



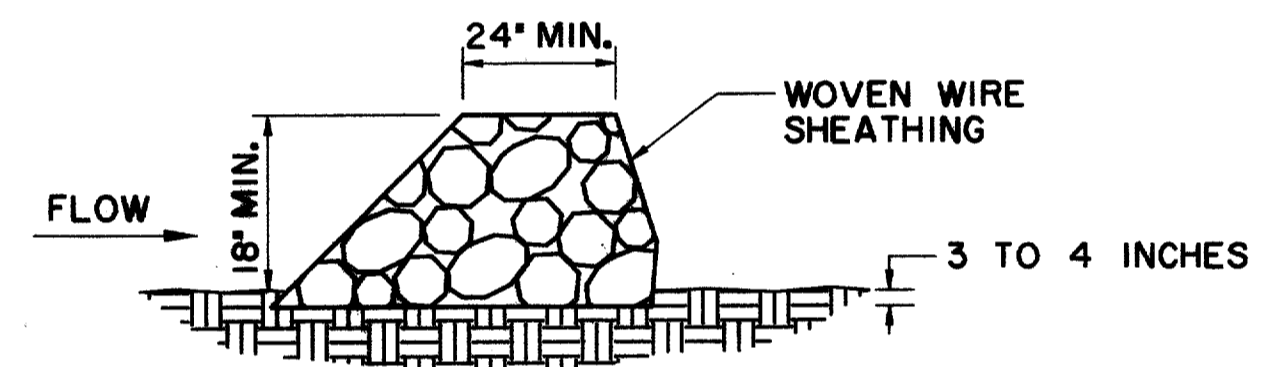
PROFILE

**STABILIZED CONSTRUCTION ENTRANCE / EXIT**

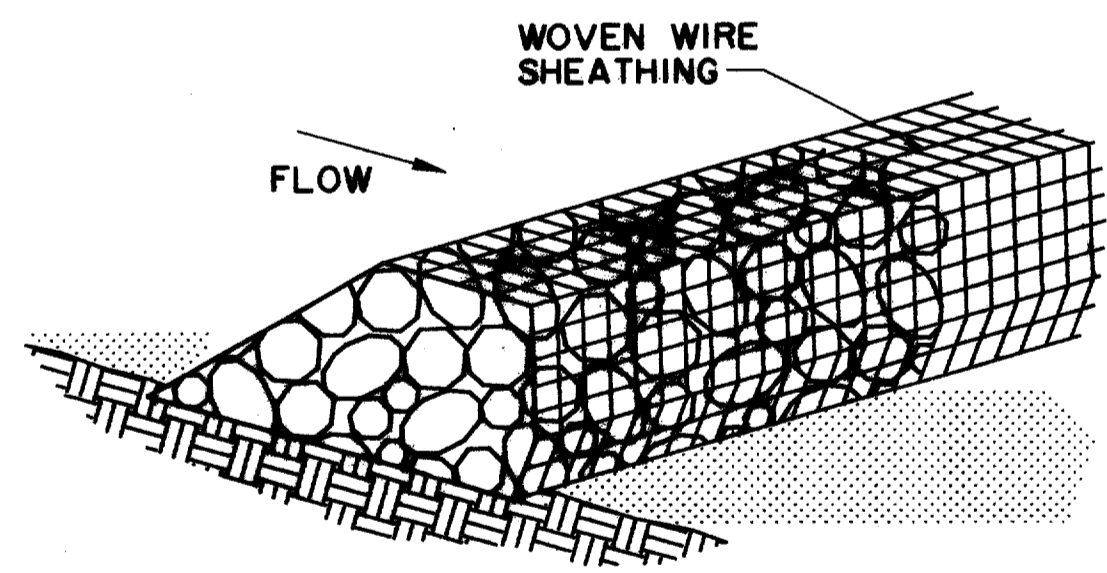
NCTCOG 02270.G  
STORMWATER QUALITY  
BEST MANAGEMENT PRACTICES  
FOR CONSTRUCTION ACTIVITIES

**DETAIL 'A'**

N.T.S.



CROSS-SECTION



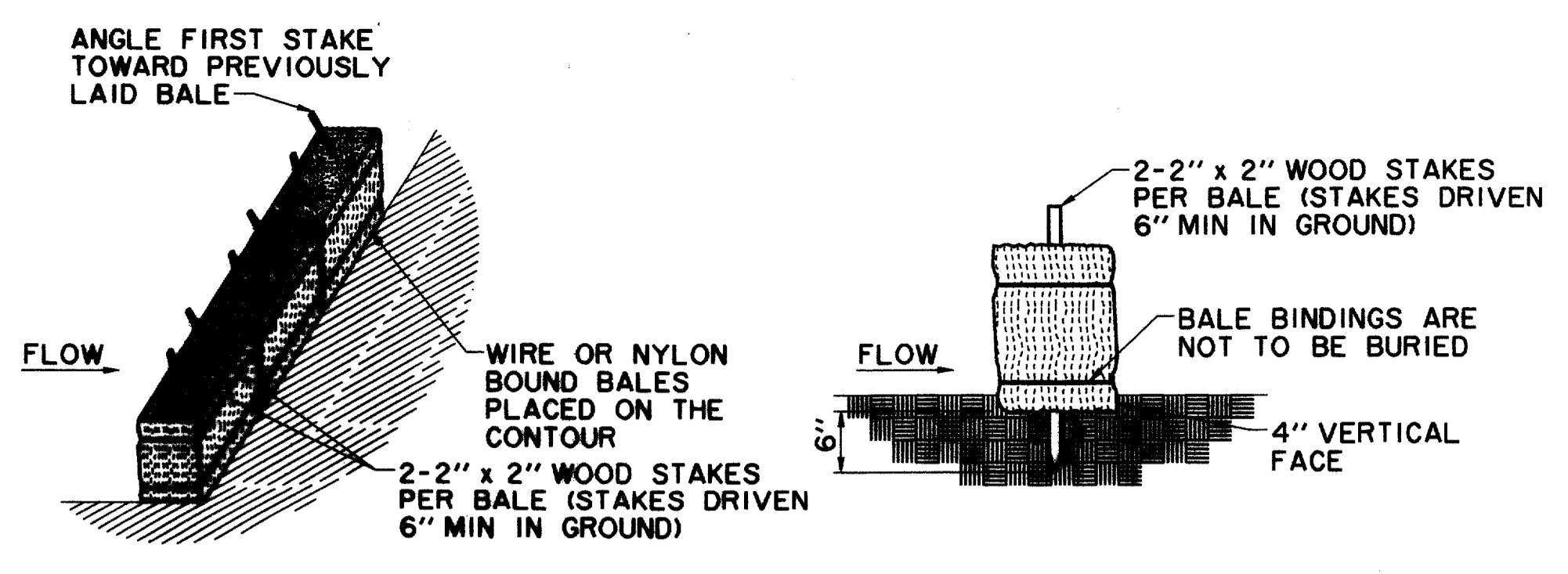
ISOMETRIC PLAN VIEW

**ROCK BERM**

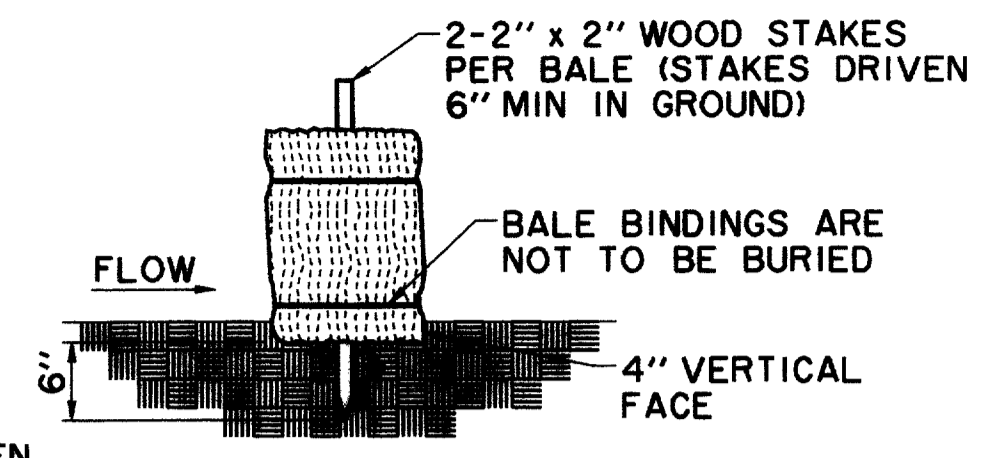
NCTCOG 02270.F  
STORMWATER QUALITY  
BEST MANAGEMENT PRACTICES  
FOR CONSTRUCTION ACTIVITIES

**DETAIL 'D'**

N.T.S.



ANCHORING DETAIL



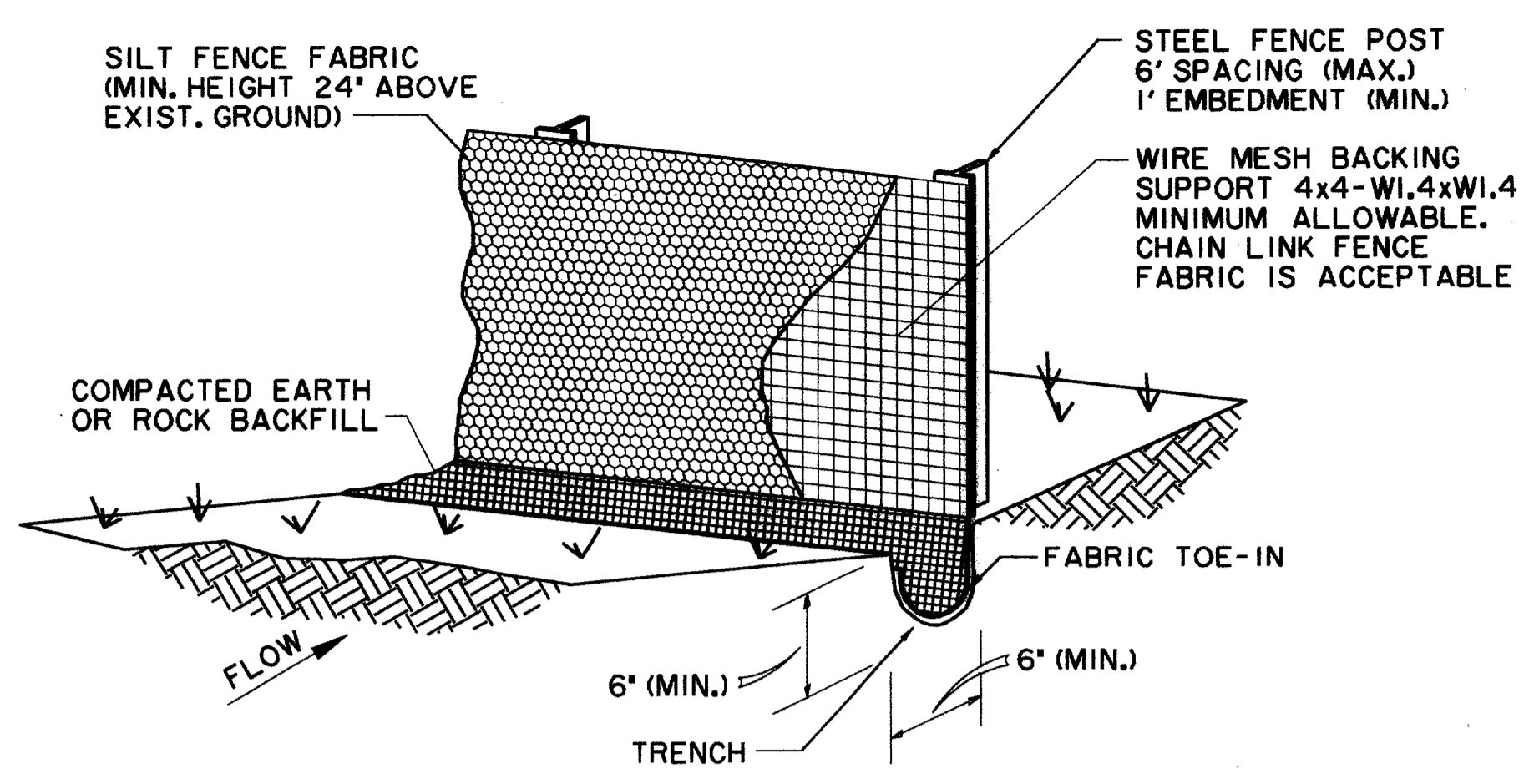
EMBEDDING DETAIL

NOTE: HAY BALES TO BE PLACED AROUND ALL INLETS DURING CONSTRUCTION.

**DETAIL 'C'**  
**TEMPORARY STRAW BALE DIKE (CHECK DAM)**

NCTCOG 02270.A  
STORMWATER QUALITY  
BEST MANAGEMENT PRACTICES  
FOR CONSTRUCTION ACTIVITIES  
N.T.S.

STRAW BALES SHALL BE PLACED IN A ROW WITH TIGHTLY ABUTTING ENDS. EMBED BALES IN THE SOIL A MINIMUM OF FOUR INCHES. STRAW BALES SHALL BE REPLACED IF THEY ARE DAMAGED OR HAVE DEGRADED TO A POINT OF INEFFECTIVENESS. REPLACEMENT OF STRAW BALES SHALL OCCUR NO LESS OFTEN THAN 90 DAYS, UNLESS NOTIFIED BY ENGINEER.



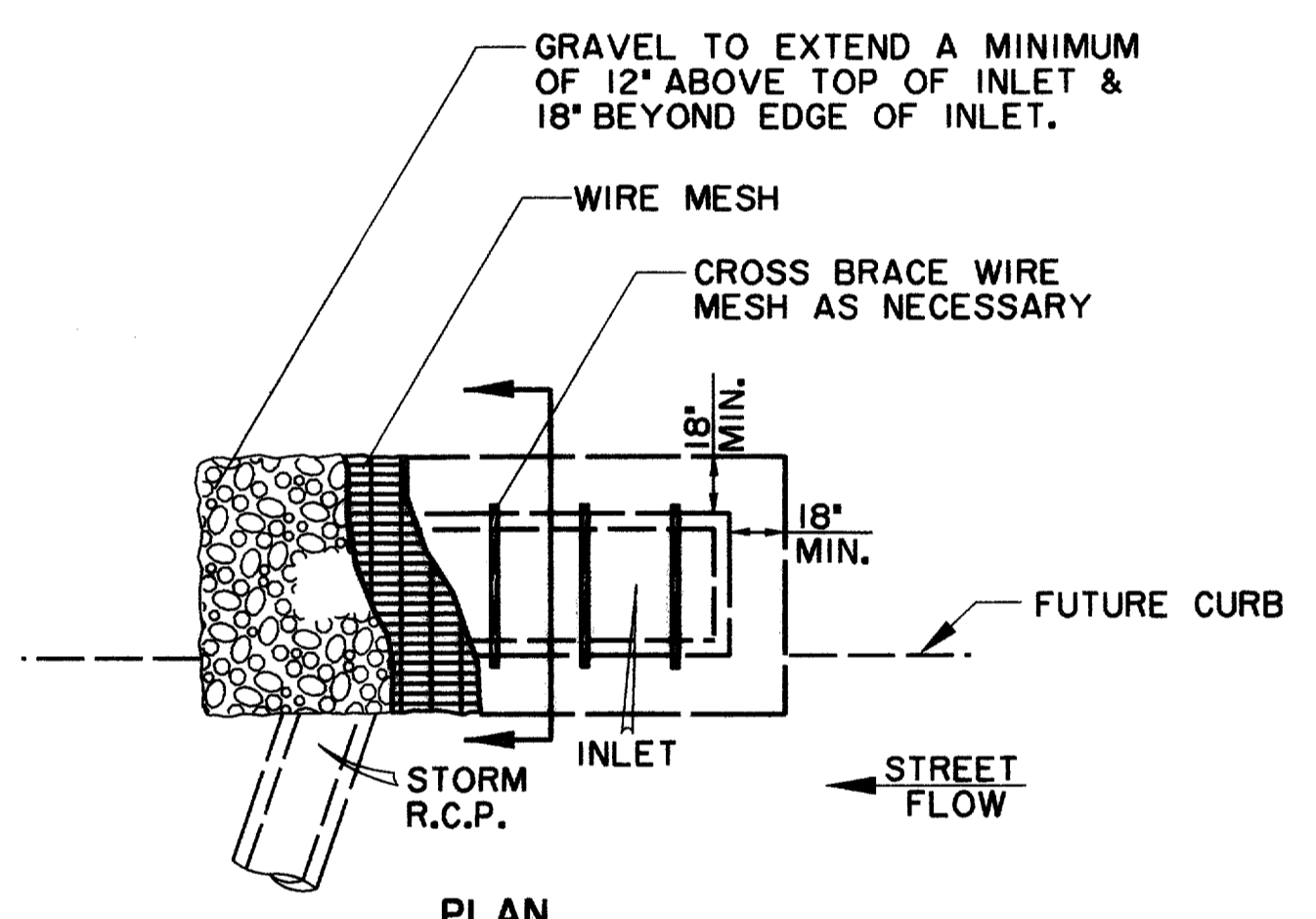
SILT FENCE SHOULD BE SECURELY FASTENED TO BACKING SUPPORT AND POSTS.

**SILT FENCE**

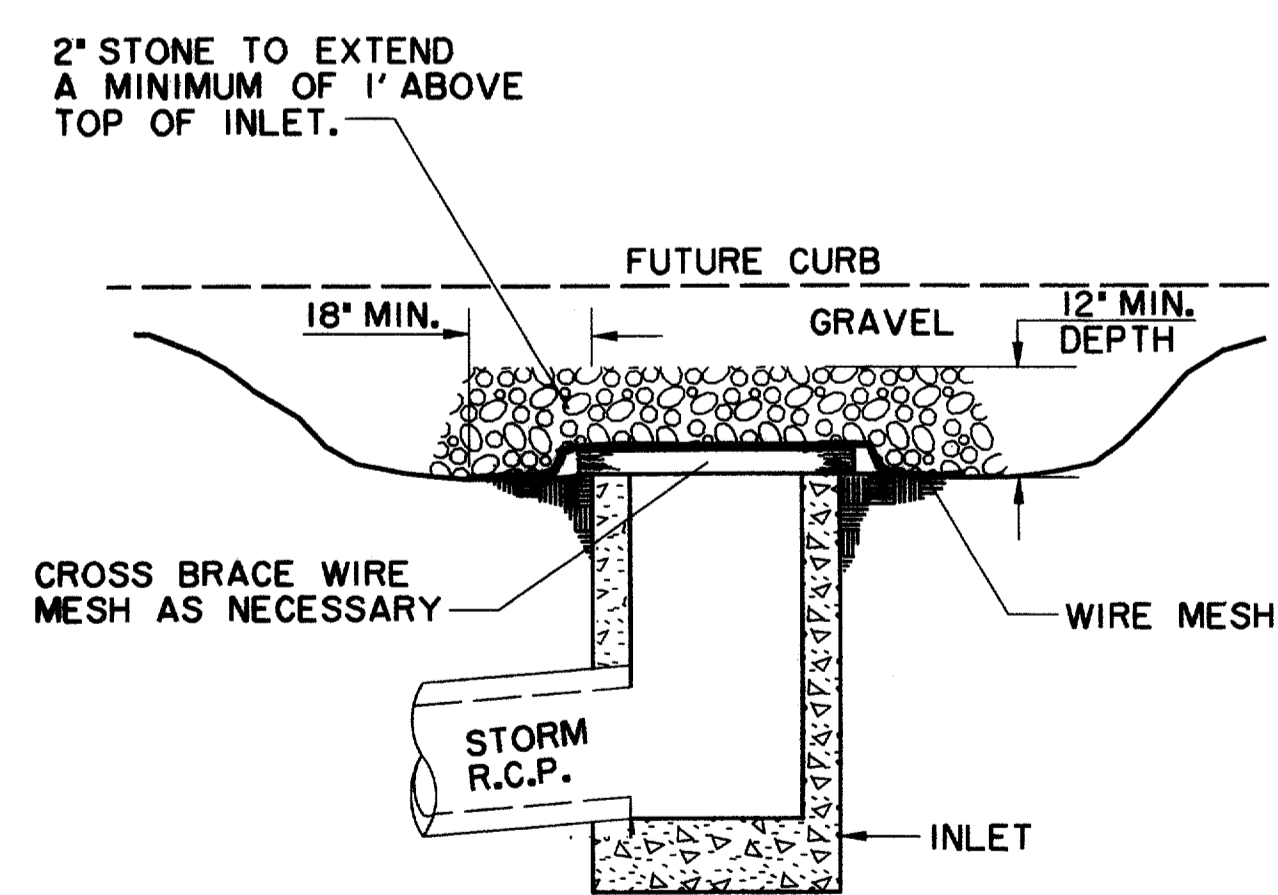
NCTCOG 02270.B  
STORMWATER QUALITY  
BEST MANAGEMENT PRACTICES  
FOR CONSTRUCTION ACTIVITIES

**DETAIL 'B'**

N.T.S.



PLAN



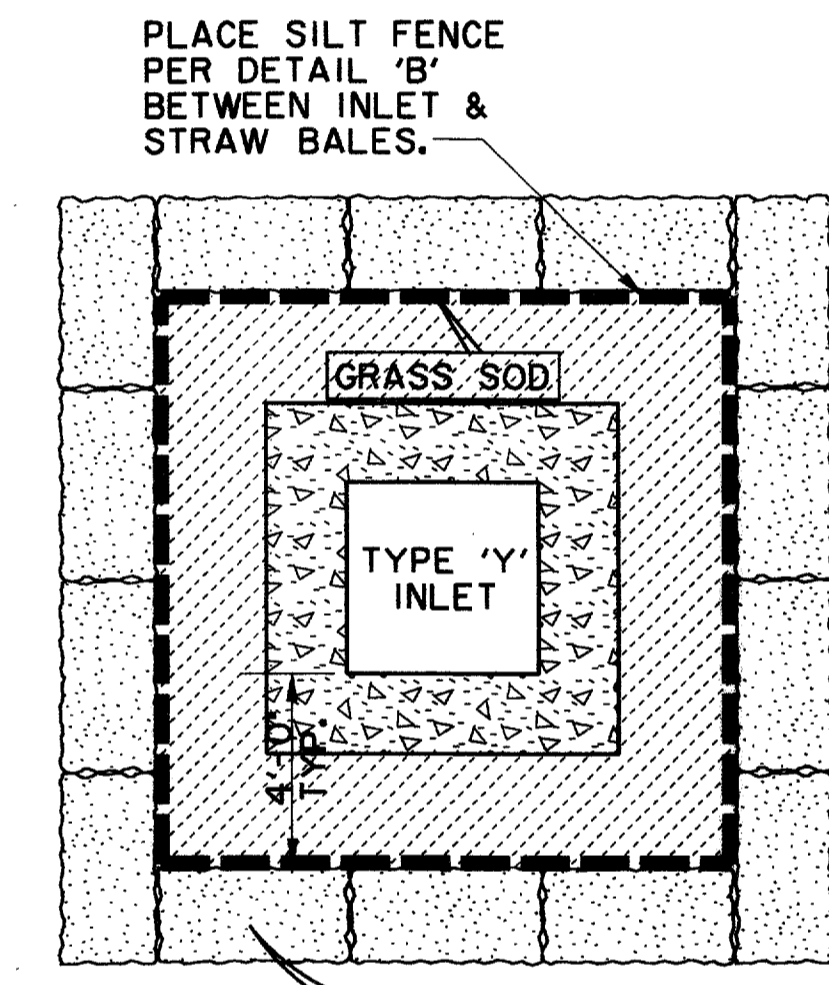
CROSS-SECTION

**INLET PROTECTION WIRE MESH & GRAVEL**

NCTCOG 02270.G  
STORMWATER QUALITY  
BEST MANAGEMENT PRACTICES  
FOR CONSTRUCTION ACTIVITIES

**DETAIL 'E'**

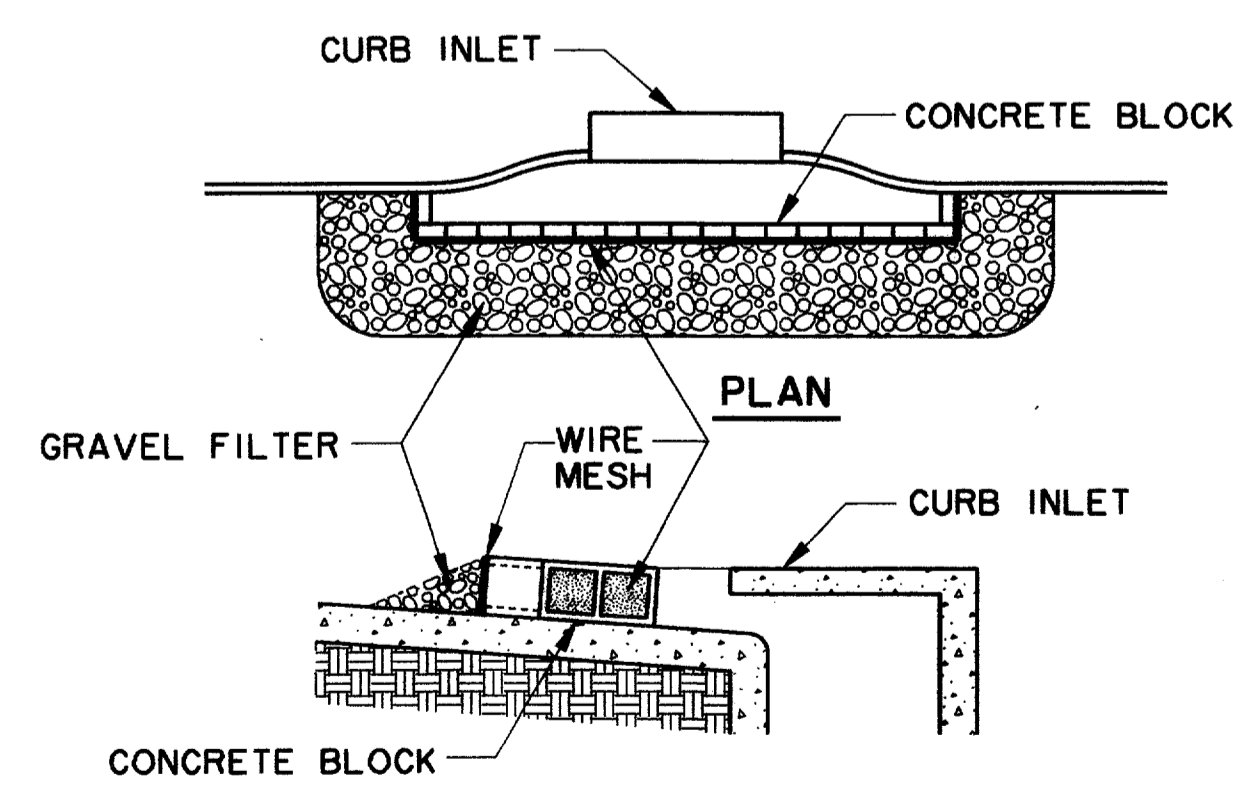
N.T.S.



**TYPE 'Y' PROTECTION (TYP.)**

**DETAIL 'F'**

N.T.S.



CROSS-SECTION

**INLET PROTECTION BLOCK & GRAVEL**

NCTCOG 02270.G  
STORMWATER QUALITY  
BEST MANAGEMENT PRACTICES  
FOR CONSTRUCTION ACTIVITIES

**DETAIL 'G'**

N.T.S.

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF THE SWPPP. THE SWPPP IS NOT A SEPARATE BID ITEM BUT IS SUBSIDIARY TO THE PROJECT. A NOTICE OF INTENT (N.O.I.) WILL BE PREPARED BY THE CONTRACTOR FOR THIS PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.P.D.E.S. GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION.
2. ALL CONTRACTORS WILL COMPLY WITH THE REQUIREMENTS AND INTENT OF THE N.P.D.E.S. GENERAL PERMIT FOR STORMWATER DISCHARGES.
3. EACH CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT (N.O.I.) FOR STORMWATER DISCHARGE PERMIT COVERAGE. THIS SUBMITTAL SHALL BE COORDINATED WITH THE TOWN AND SHALL OCCUR NO LESS THAN 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
4. EACH CONTRACTOR SHALL OBTAIN AND SUBMIT TO TOWN A POLLUTION PREVENTION CERTIFICATION FROM EACH SUBCONTRACTOR WHOSE WORK IMPACTS THE STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) PRIOR TO THE PERFORMANCE OF ANY WORK BY SAID SUBCONTRACTOR. THESE CERTIFICATIONS SHALL BECOME A PART OF THE STORMWATER POLLUTION PREVENTION PLAN.
5. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES, AS INDICATED ON THE PLANS AND AS FIELD CONDITIONS WARRANT, PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY. REPAIRS OR MODIFICATIONS TO THE MEASURES WILL BE MADE BY THE CONTRACTOR IF THE CONTROL MEASURES PROVE INEFFECTIVE OR IF ADDITIONAL CONTROL MEASURES ARE NECESSARY.
6. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT TRACKING OF MUD AND/OR SOILS ONTO EXISTING AND/OR NEW PAVEMENT. ANY TRACKING THAT OCCURS SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
7. CONTRACTOR SHALL CONSTRUCT INLET PROTECTION FOR ALL INCOMPLETE CURB INLETS AND SHALL TAKE EVERY MEASURE TO KEEP SOILS AND SEDIMENTS FROM ENTERING THE STORM SEWER SYSTEM.
8. CONTRACTOR SHALL CONSTRUCT DROP INLET PROTECTION FOR ALL INCOMPLETE DROP INLETS AND SHALL TAKE EVERY MEASURE TO KEEP SOILS AND SEDIMENTS FROM ENTERING THE STORM SEWER SYSTEM.
9. AT A MINIMUM, PERIMETER CONTROLS SUCH AS SILT FENCE OR STRAW BALES SHALL BE INSTALLED AT ALL DOWN SLOPE BOUNDARIES AND AS WARRANTED WHERE PAVEMENT REMOVAL, UTILITY CONSTRUCTION, GRADING, OR OTHER CONSTRUCTION ACTIVITIES ARE TO BE PERFORMED. THE CONTRACTOR SHALL AT ALL TIMES TAKE SUCH MEASURES AS NECESSARY TO MINIMIZE OFFSITE TRACKING OR TRANSPORT OF SEDIMENT AND DEBRIS.
10. DAMAGE TO ADJACENT PROPERTY AND/OR TO RECEIVING WATERS CAUSED BY IMPROPERLY INSTALLED OR POORLY MAINTAINED EROSION CONTROL MEASURES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ANY SILTATION CAUSED BY HIS OPERATIONS AND/OR FAILURE OF THE EROSION CONTROL MEASURES.
12. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SILT AND SEDIMENT FROM EROSION CONTROL MEASURES WHEN IT REACHES A DEPTH OF SIX (6) INCHES OR IMPAIRS THE EFFECTIVENESS OF THE MEASURES.
13. THE TOWN'S REPRESENTATIVE WILL INSPECT THE PROJECT EVERY SEVEN DAYS, AT A MINIMUM, AND AFTER EVERY RAINFALL OF ONE-HALF INCHES OR GREATER TO DETERMINE THE INTEGRITY AND EFFECTIVENESS OF THE EROSION CONTROL MEASURES. A WRITTEN INSPECTION REPORT WILL BE FILED WITH THE POLLUTION PREVENTION PLAN. THIS INSPECTION DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR INSPECTION AND MAINTENANCE OF THE EROSION CONTROL MEASURES OR HIS DUTY TO COMPLY WITH THE INTENT AND CONDITIONS OF THE N.P.D.E.S. GENERAL PERMIT.
14. ALL STOCKPILED SOILS WILL BE SURROUNDED BY A STRAW BALE DIKE, SILT FENCE, SEDIMENT CONTROL SWALE, OR EQUIVALENT MEASURE TO PROPERLY CONTROL SEDIMENT RUNOFF, AS APPROVED BY THE TOWN.
15. CONTRACTOR SHALL STABILIZE ANY AREA WHERE CONSTRUCTION ACTIVITY IS TO BE TEMPORARILY OR PERMANENTLY CEASED FOR MORE THAN 14 DAYS.

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



**POLLUTION CONTROL DETAILS**

**ARAPAHO ROAD**

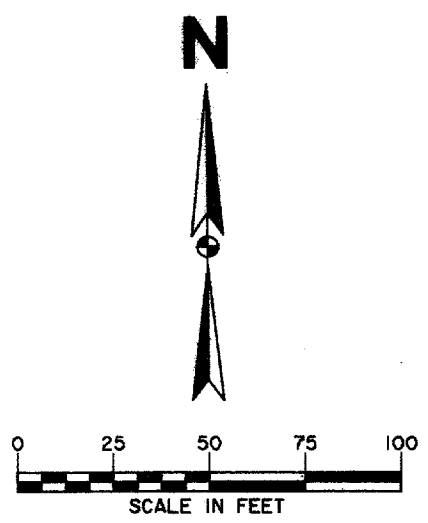
ADDISON ROAD TO DALLAS NORTH TOLLWAY

**TOWN OF ADDISON, TEXAS**

Hultt-Zollars, Inc./Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	N.T.S.	OCT 97	1772-01	ST-17





SEQUENCE OF CONSTRUCTION  
(For Bidding Purposes Only)

GENERAL:

1. THE SEQUENCE OF CONSTRUCTION SHOWN ON THE PLANS IS FOR THE PREPARATION AND COMPARISON OF BIDS ONLY. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL DEVELOP, IN DETAIL, A CONSTRUCTION SCHEDULE AND SEQUENCE OF CONSTRUCTION THAT SHALL CAUSE MINIMUM INTERFERENCE WITH TRAFFIC ALONG, ACROSS AND ADJACENT TO THE PROJECT DURING CONSTRUCTION. IF THE SCHEDULE OR SEQUENCE BECOMES UNWORKABLE OR UNSATISFACTORY AS WORK PROCEEDS, ADJUSTMENTS SHALL BE MADE. TWO LANES OF TRAFFIC ON ARAPAHO ROAD (ONE IN EACH DIRECTION) AND ACCESS TO ALL SIDE STREETS AND DRIVEWAYS MUST BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE TOWN OF ADDISON.
2. DURING ALL PHASES OF CONSTRUCTION, TWO LANES OF TRAFFIC (22' MIN. PAVEMENT WIDTH INCLUDING DETOUR PAVEMENT) ON ARAPAHO ROAD (ONE IN EACH DIRECTION) AND ACCESS TO ALL SIDE STREETS AND DRIVEWAYS MUST BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE TOWN OF ADDISON.
3. LIGHTED BARRICADES, TEMPORARY PAVEMENT MARKINGS, AND CHANNELIZING DEVICES CONFORMING TO THE CURRENT EDITION OF THE M.U.T.C.D. SHALL BE USED DURING ALL STAGES OF CONSTRUCTION TO CONTROL TRAFFIC FLOW THROUGH THE WORK ZONES.
4. MAINTAIN A MINIMUM RADIUS OF 20 FEET ON ALL STREET CONNECTIONS AND 10 FEET ON ALL DRIVEWAY CONNECTIONS DURING CONSTRUCTION OF ARAPAHO ROAD TO ACCOMMODATE THE TRAFFIC USING THE ROADWAY DURING CONSTRUCTION.
5. POLLUTION CONTROL DEVICES MUST BE PROPERLY INSTALLED AND MAINTAINED DURING ALL STAGES OF CONSTRUCTION.
6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND RELOCATE, IF NECESSARY, PRIOR TO THE START OF ANY STAGE OF CONSTRUCTION, AND INSTALL STORMWATER TO THE EXTENT POSSIBLE.
7. DRIVEWAY CONSTRUCTION MAY BE DONE DURING ONE PHASE OF CONSTRUCTION INSTEAD OF TWO PHASES (1/2 DRIVE - 1/2 DRIVE) WITH THE PERMISSION OF THE AFFECTED PROPERTY OWNER. CONTACT THE AFFECTED PROPERTY OWNER A MINIMUM 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OF ANY DRIVEWAYS.
8. IT IS ASSUMED THAT ALL FRANCHISED UTILITIES HAVE BEEN RELOCATED BY OTHERS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
9. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND NOTIFY THE TOWN OF ADDISON AND RELATIVE UTILITY COMPANY IMMEDIATELY IF A CONFLICT IS FOUND TO EXIST.
10. CONTRACTOR SHALL COORDINATE & COOPERATE WITH THE DART CONTRACTOR WHO IS CONSTRUCTING THE DART STATION AT THE NORTHWEST CORNER OF QUORUM DRIVE & PROPOSED ARAPAHO ROAD.

NOTE:  
CONTRACTOR SHALL COMPLETE THE SECTION OF ARAPAHO ROAD FROM ADDISON ROAD TO QUORUM DRIVE BY SEPTEMBER 30, 1998.

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



CONSTRUCTION SEQUENCING PLAN  
PHASE I

ARAPAHO ROAD

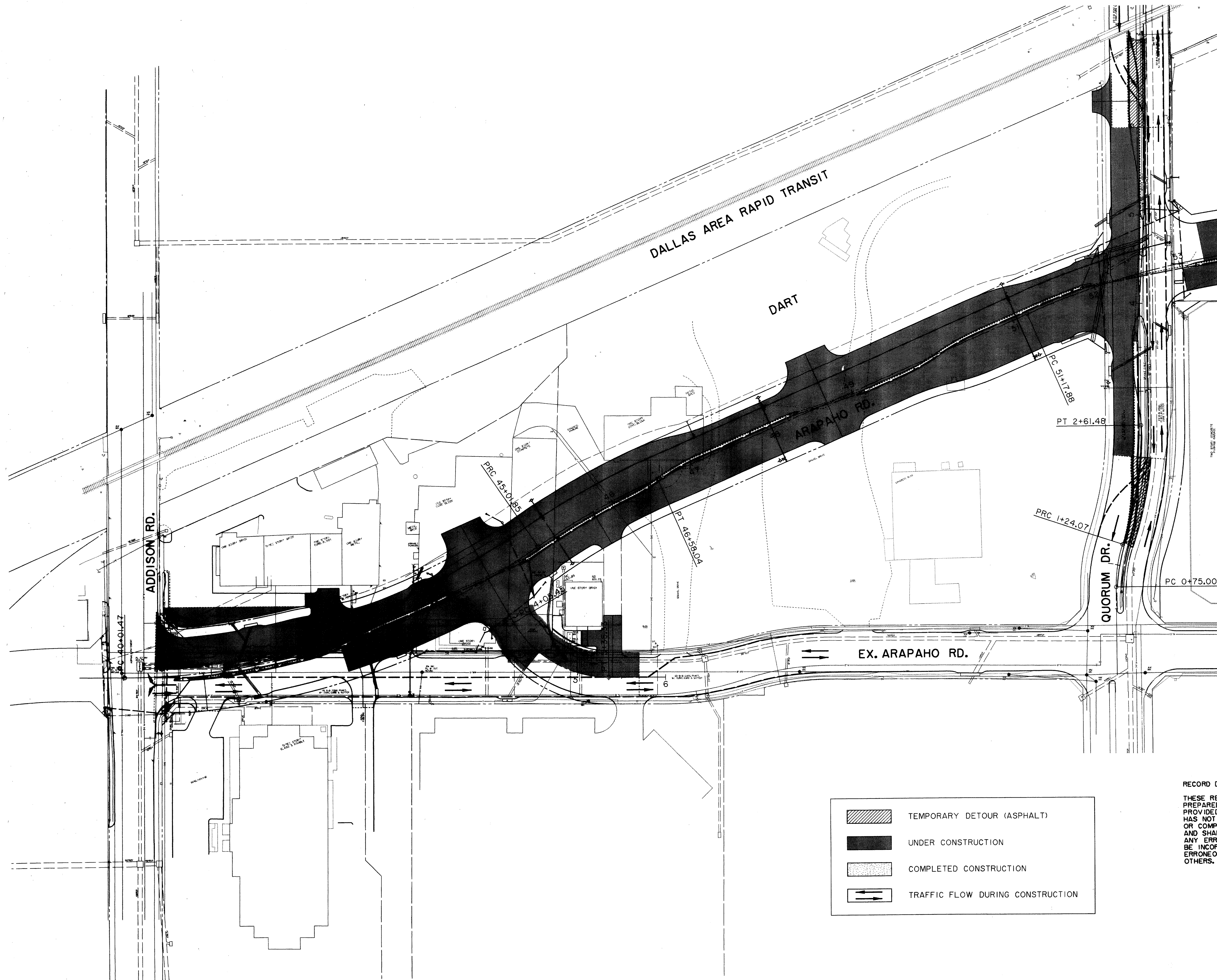
ADDISON ROAD TO DALLAS NORTH TOLLWAY

TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=50'	OCT 97	1772-01	CS-1

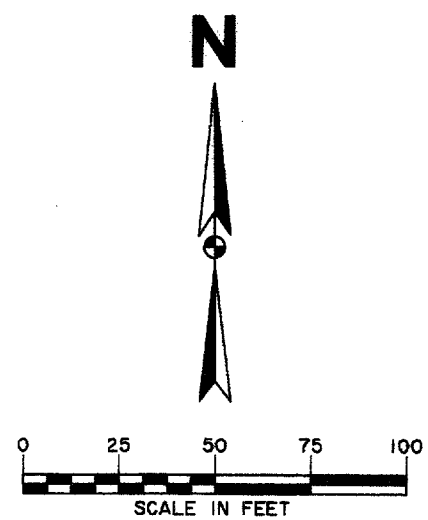
	TEMPORARY DETOUR (ASPHALT)
	UNDER CONSTRUCTION
	COMPLETED CONSTRUCTION
	TRAFFIC FLOW DURING CONSTRUCTION



THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

DALLAS AREA RAPID TRANSIT



MATCH LINE

PT 54+85.75

PC 57+07.96

PT 61+25.76

PC 61+62.66

PT 64+35.91

PC 66+51.52

PT 66+65.39

68

69

DALLAS NORTH TOLLWAY

EX. ARAPAHO RD.

SPECTRUM

	TEMPORARY DETOUR (ASPHALT)
	UNDER CONSTRUCTION
	COMPLETED CONSTRUCTION
	TRAFFIC FLOW DURING CONSTRUCTION

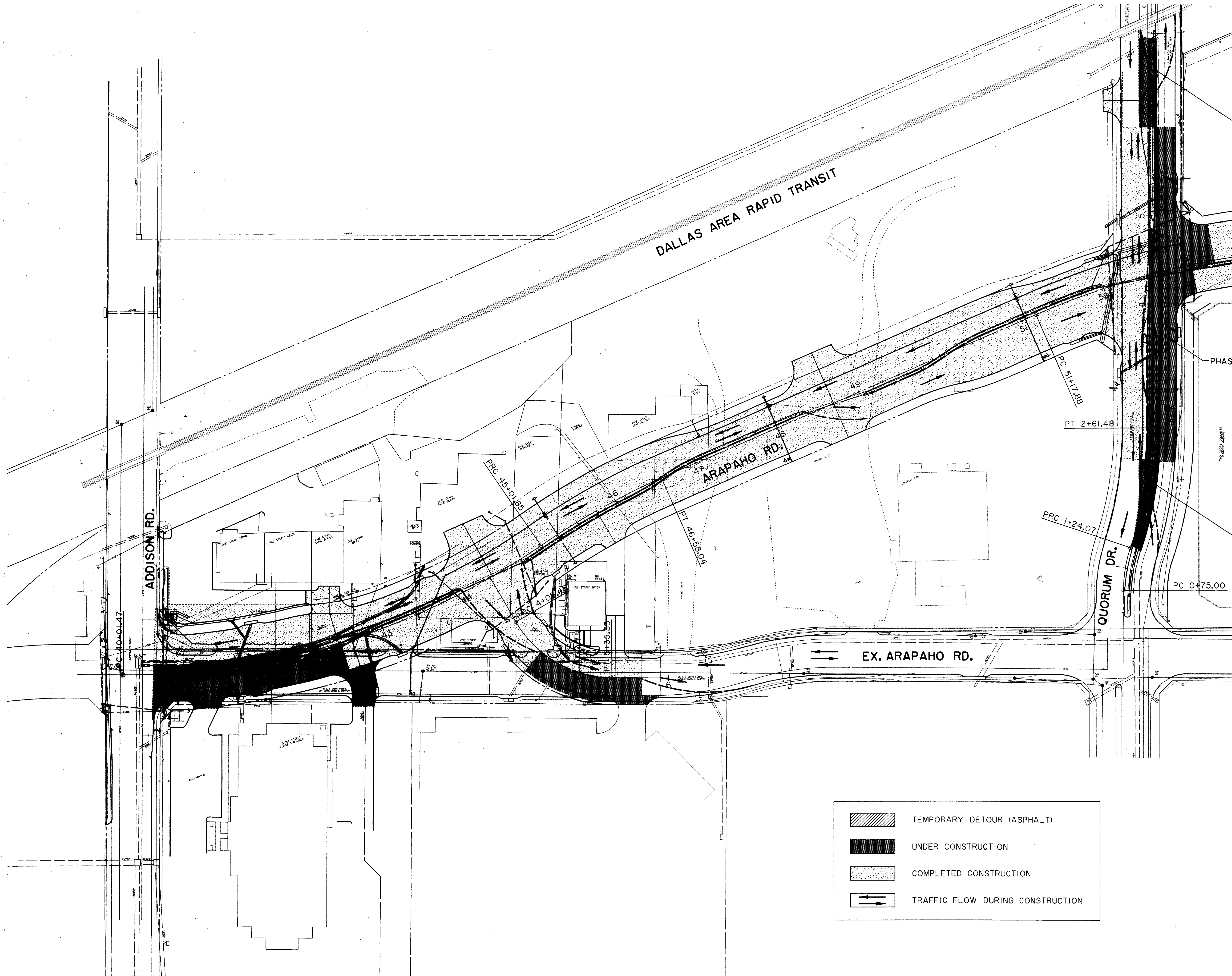
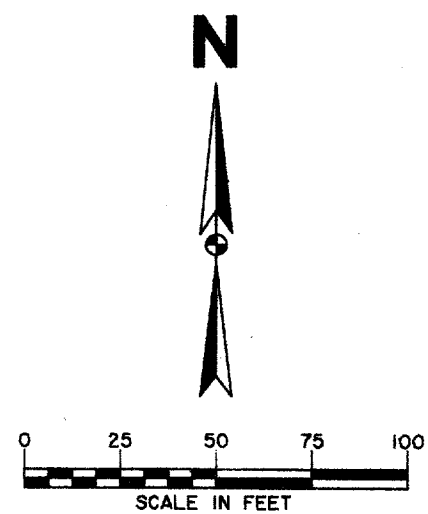
RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



CONSTRUCTION SEQUENCING PLAN						
PHASE I						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Hultt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=50'	OCT 97	1772-01	CS-2



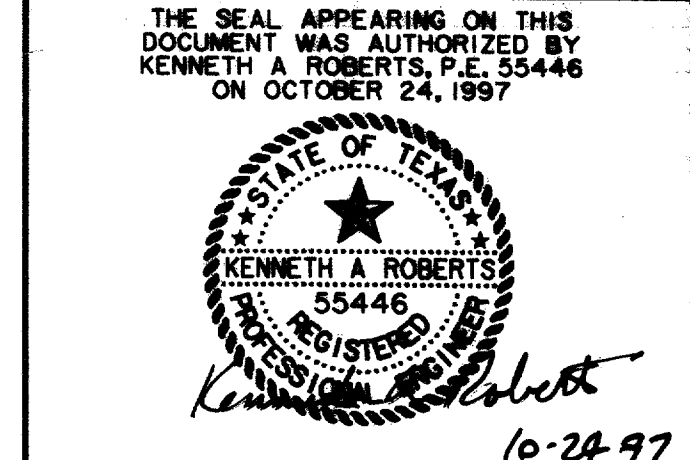
PHASE 2-B  
COMPLETE TURN LANE CONSTRUCTION  
AFTER QUORUM DRIVE MAIN LANES  
ARE COMPLETE.

MATCH LINE

PHASE 2-A

PHASE 2-B  
COMPLETE TURN LANE CONSTRUCTION  
AFTER QUORUM DRIVE MAIN LANES  
ARE COMPLETE.

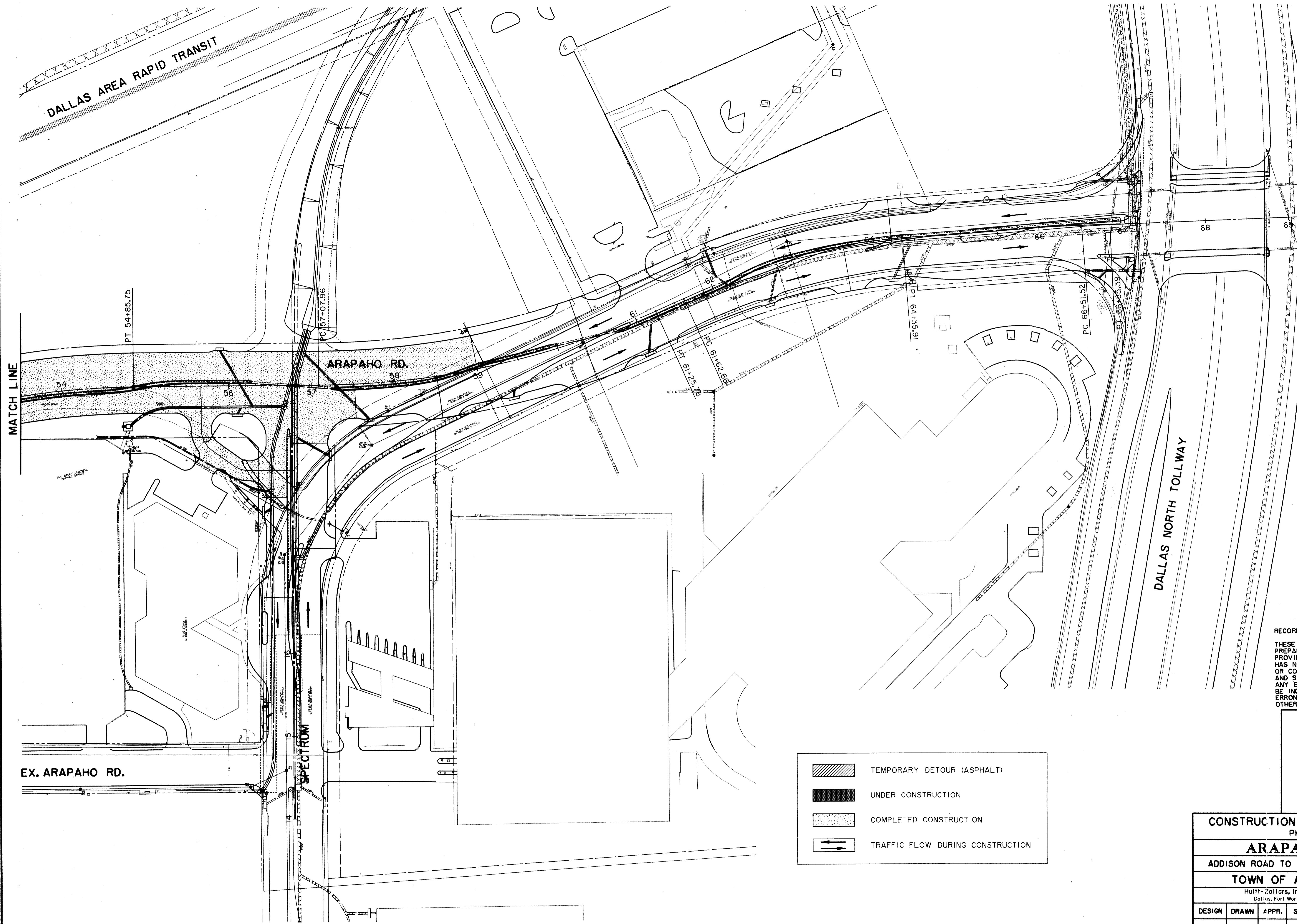
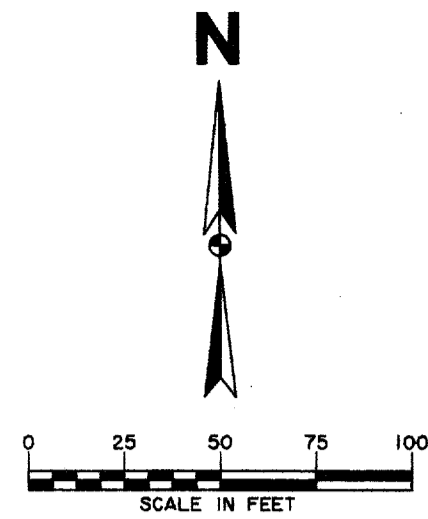
RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN  
PREPARED BASED ON INFORMATION  
PROVIDED BY OTHERS. THE CONSULTANT  
HAS NOT VERIFIED THE ACCURACY AND/  
OR COMPLETENESS OF THIS INFORMATION  
AND SHALL NOT BE RESPONSIBLE FOR  
ANY ERRORS OR OMISSIONS THAT MAY  
BE INCORPORATED AS A RESULT OF  
ERRONEOUS INFORMATION PROVIDED BY  
OTHERS.



- TEMPORARY DETOUR (ASPHALT)
- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TRAFFIC FLOW DURING CONSTRUCTION

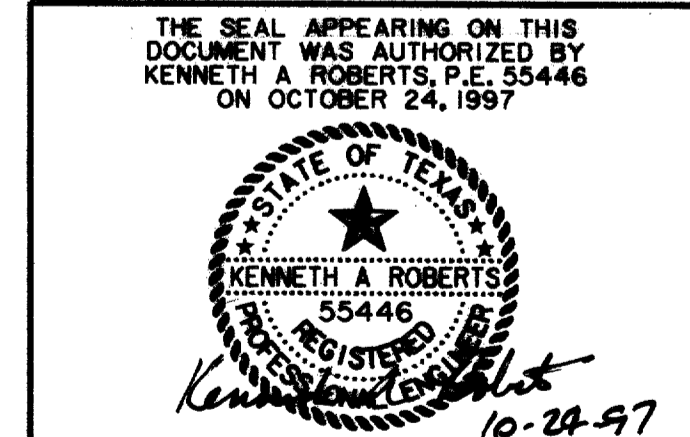
<b>CONSTRUCTION SEQUENCING PLAN</b>						
PHASE 2						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
<small>Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin</small>						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=50'	OCT 97	1772-01	CS-3

ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.  
 ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE ROAD.  
 ALL CURVES ARE CIRCULAR UNLESS OTHERWISE NOTED.  
 ALL ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL UNLESS OTHERWISE NOTED.  
 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TEXAS ROAD DESIGN MANUAL AND THE TEXAS STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION.  
 ALL MATERIALS SHALL BE TESTED AND APPROVED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.  
 ALL UTILITIES SHALL BE DEPTH TESTED AND MARKED PRIOR TO CONSTRUCTION.  
 ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.  
 ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.  
 ALL CONSTRUCTION SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.  
 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TEXAS ROAD DESIGN MANUAL AND THE TEXAS STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION.  
 ALL MATERIALS SHALL BE TESTED AND APPROVED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.  
 ALL UTILITIES SHALL BE DEPTH TESTED AND MARKED PRIOR TO CONSTRUCTION.  
 ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.  
 ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.  
 ALL CONSTRUCTION SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.



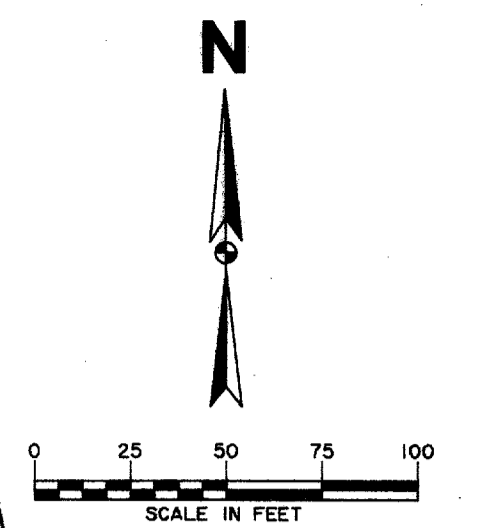
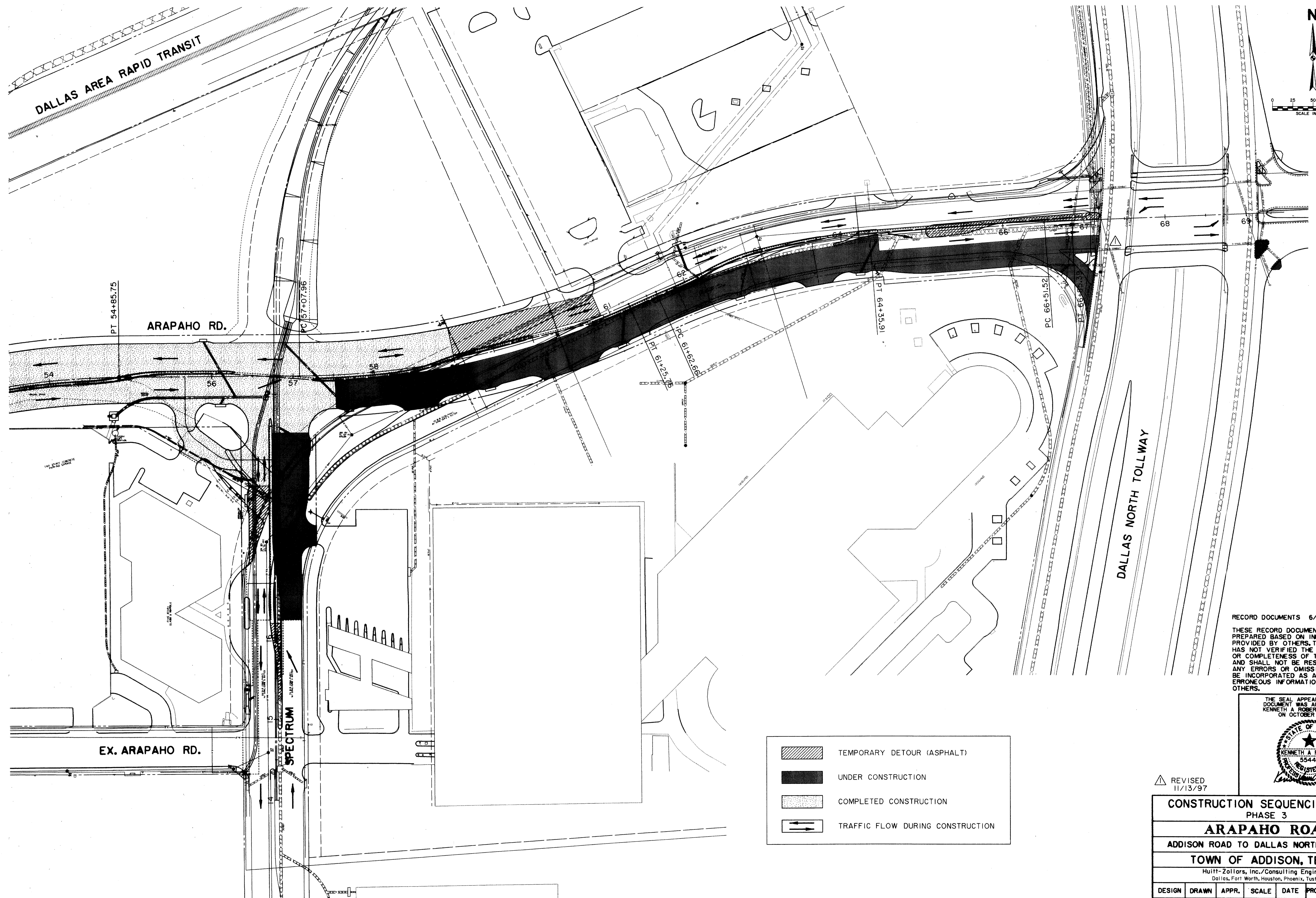
ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.  
 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, TEXAS EDITION, AND THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION, TEXAS EDITION.  
 ALL MATERIALS SHALL BE TESTED AND APPROVED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.  
 ALL UTILITIES SHALL BE DEPTH TESTED AND MARKED PRIOR TO CONSTRUCTION.  
 ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.  
 ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.  
 ALL CONSTRUCTION SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.  
 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, TEXAS EDITION, AND THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION, TEXAS EDITION.  
 ALL MATERIALS SHALL BE TESTED AND APPROVED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.  
 ALL UTILITIES SHALL BE DEPTH TESTED AND MARKED PRIOR TO CONSTRUCTION.  
 ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.  
 ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.  
 ALL CONSTRUCTION SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.

RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



	TEMPORARY DETOUR (ASPHALT)
	UNDER CONSTRUCTION
	COMPLETED CONSTRUCTION
	TRAFFIC FLOW DURING CONSTRUCTION

<b>CONSTRUCTION SEQUENCING PLAN</b>						
PHASE 2						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
<b>TOWN OF ADDISON, TEXAS</b>						
Hull-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=50'	OCT 97	1772-01	CS-4



RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

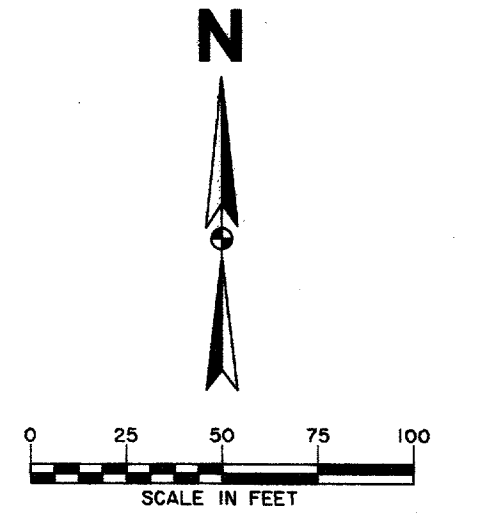


- TEMPORARY DETOUR (ASPHALT)
- UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TRAFFIC FLOW DURING CONSTRUCTION

△ REVISED 11/13/97

<b>CONSTRUCTION SEQUENCING PLAN</b>						
PHASE 3						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
<b>TOWN OF ADDISON, TEXAS</b>						
<small>Hull-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin</small>						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=50'	OCT 97	1772-01	CS-5

DALLAS AREA RAPID TRANSIT



ARAPAHO RD.

DALLAS NORTH TOLLWAY

EX. ARAPAHO RD.

SPECTRUM

	TEMPORARY DETOUR (ASPHALT)
	UNDER CONSTRUCTION
	COMPLETED CONSTRUCTION
	TRAFFIC FLOW DURING CONSTRUCTION

RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

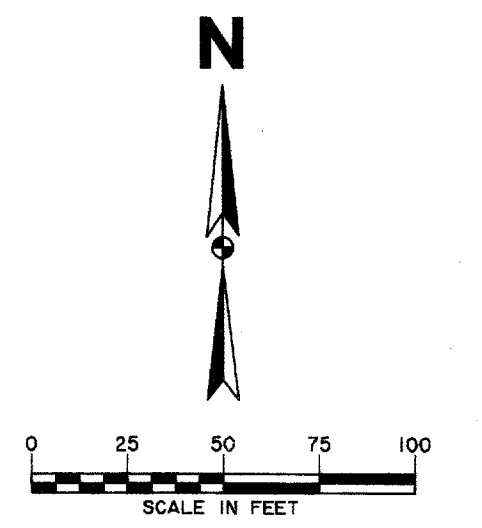
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

*Kenneth A. Roberts*  
10.24.97

△ REVISED 11/13/97

CONSTRUCTION SEQUENCING PLAN PHASE 4						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZ1	HZ1	KAR	1"=50'	OCT 97	1772-01	CS-6

DALLAS AREA RAPID TRANSIT



ARAPAHO RD.

DALLAS NORTH TOLLWAY

EX. ARAPAHO RD.

SPECTRUM

	TEMPORARY DETOUR (ASPHALT)
	UNDER CONSTRUCTION
	COMPLETED CONSTRUCTION
	TRAFFIC FLOW DURING CONSTRUCTION

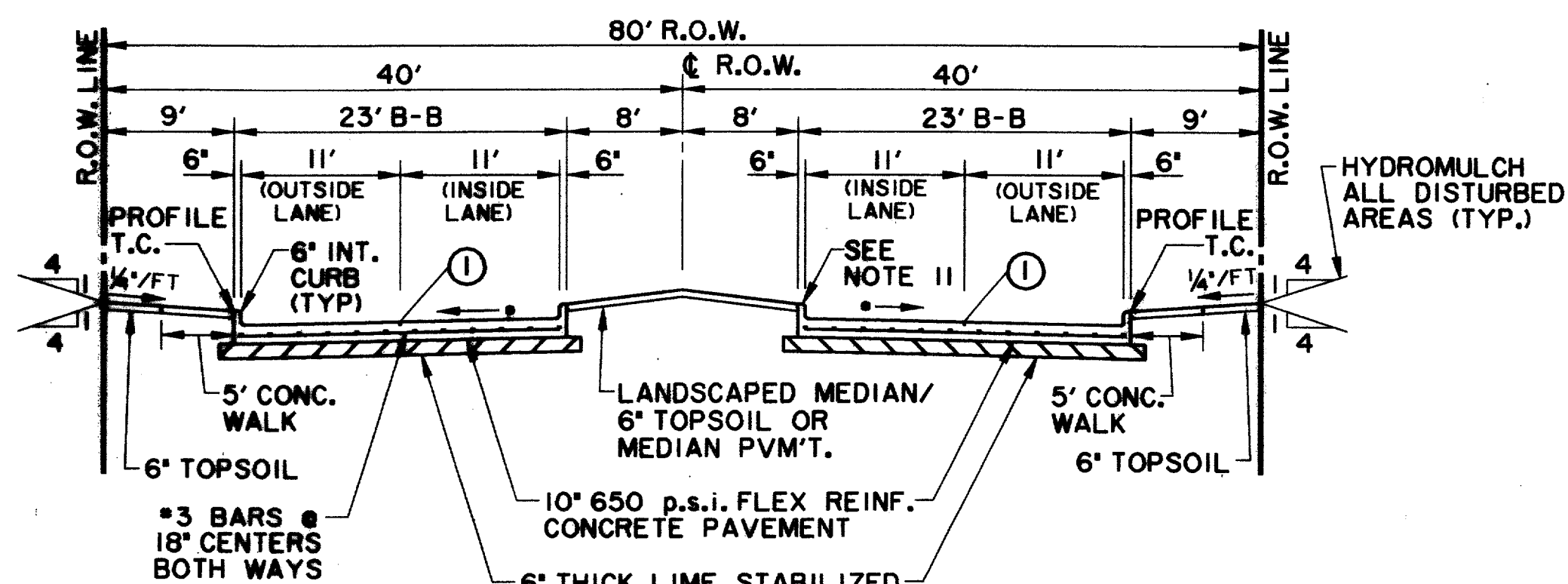
RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

*Kenneth A. Roberts*  
10-24-97

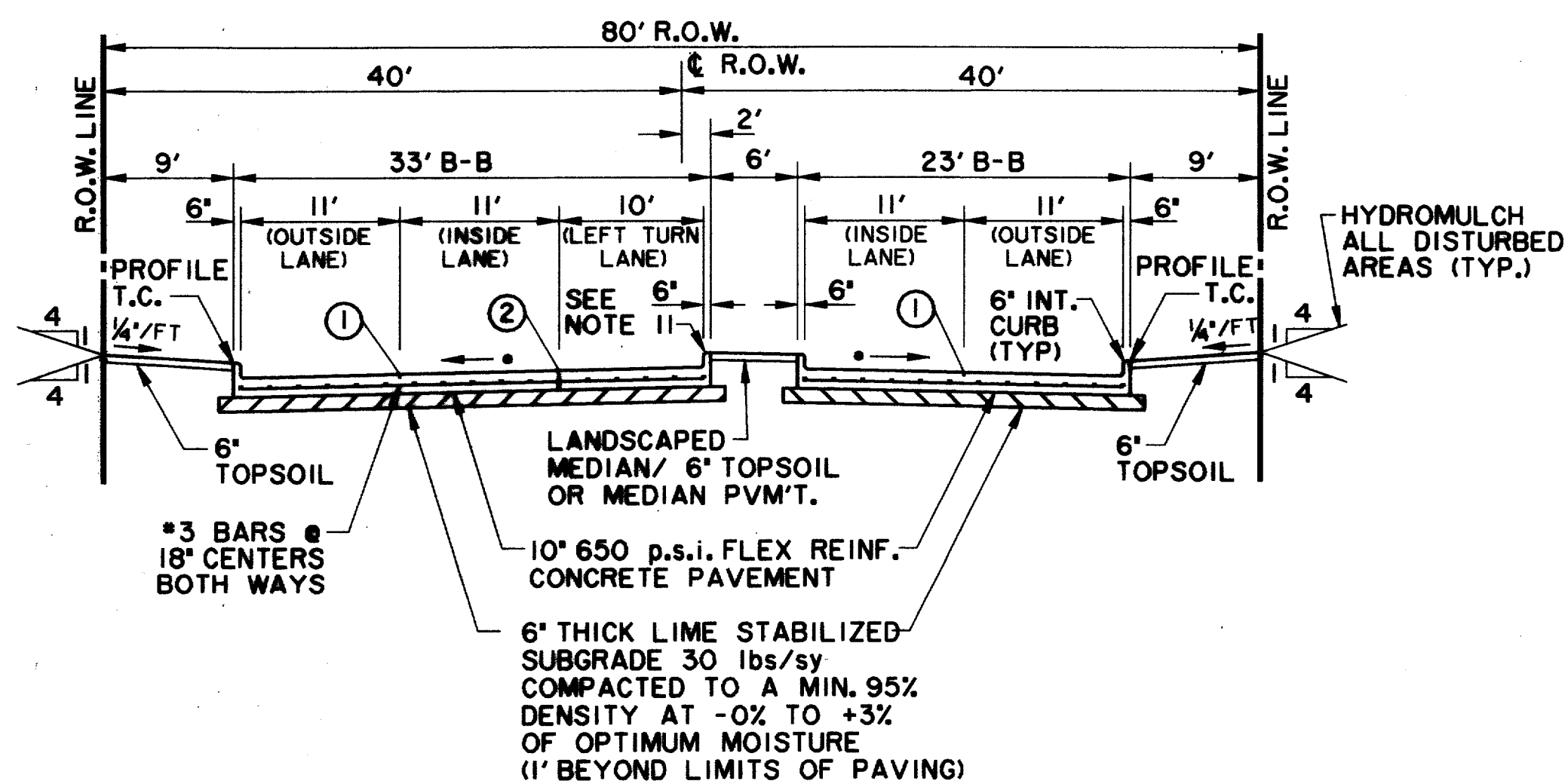
△ REVISED 11/13/97

<b>CONSTRUCTION SEQUENCING PLAN</b>						
PHASE 5						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Hult-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=50'	OCT 97	1772-01	CS-7



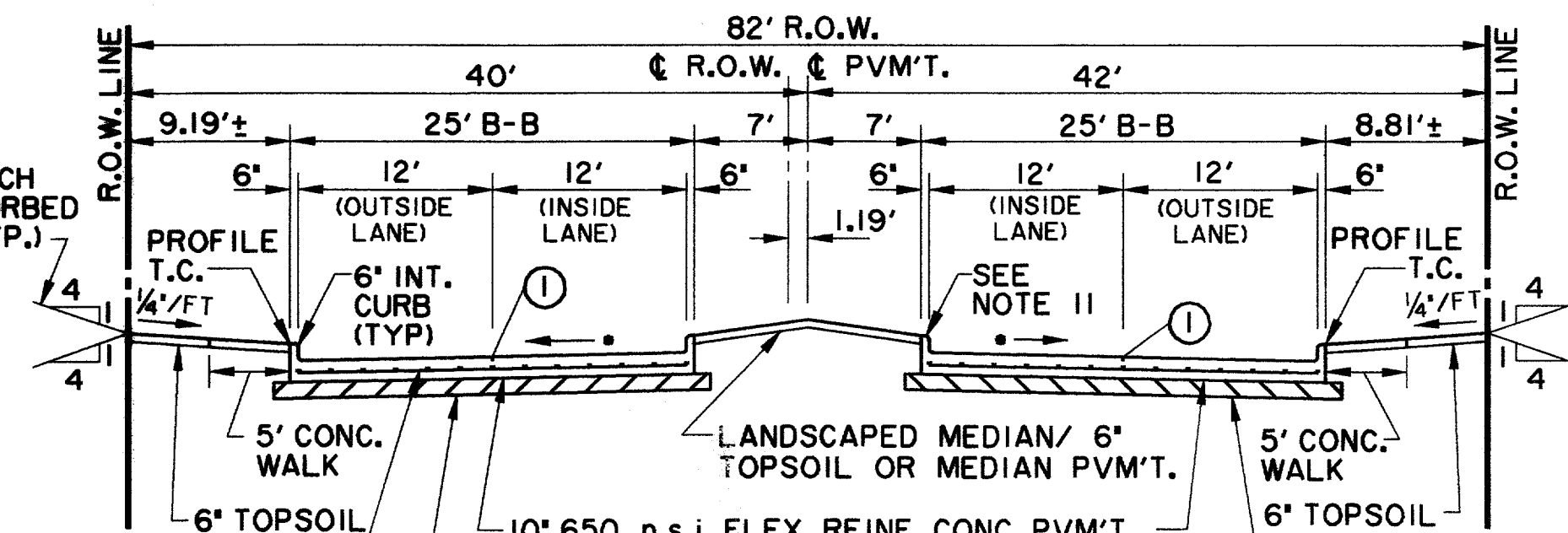
**TYPICAL SECTION 4 LANE DIVIDED  
QUORUM DRIVE**

• PAVEMENT CROSS-SLOPES VARY FROM THE TYPICAL 1/4\"/>



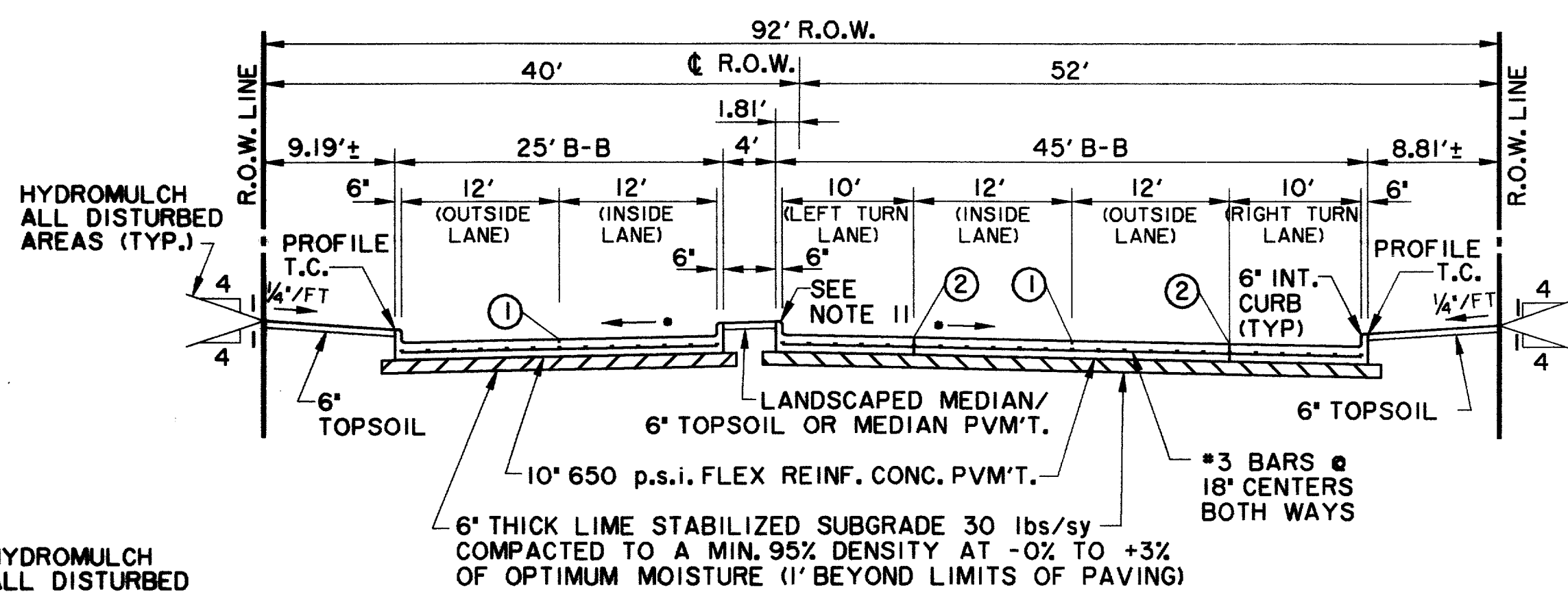
**TYPICAL SECTION 4 LANE DIVIDED  
WITH LEFT TURN LANE  
QUORUM DRIVE**

• PAVEMENT CROSS-SLOPES VARY FROM THE TYPICAL 1/4\"/>



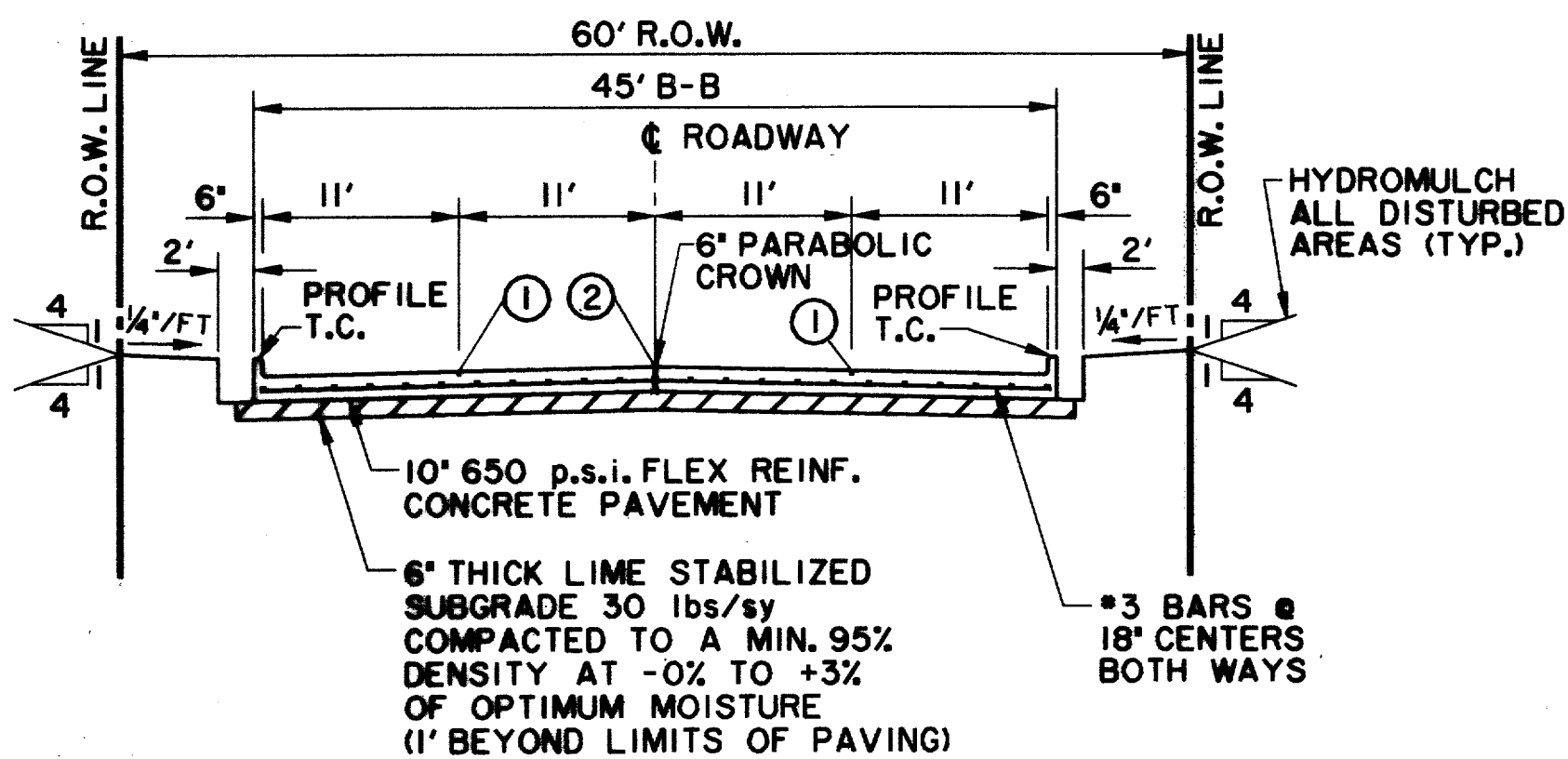
**TYPICAL SECTION 4 LANE DIVIDED  
SPECTRUM DRIVE  
LOOKING NORTH**

• PAVEMENT CROSS-SLOPES VARY FROM THE TYPICAL 1/4\"/>



**TYPICAL SECTION 4 LANE DIVIDED WITH LEFT & RIGHT TURN LANE  
SPECTRUM DRIVE  
LOOKING NORTH**

• PAVEMENT CROSS-SLOPES VARY FROM THE TYPICAL 1/4\"/>



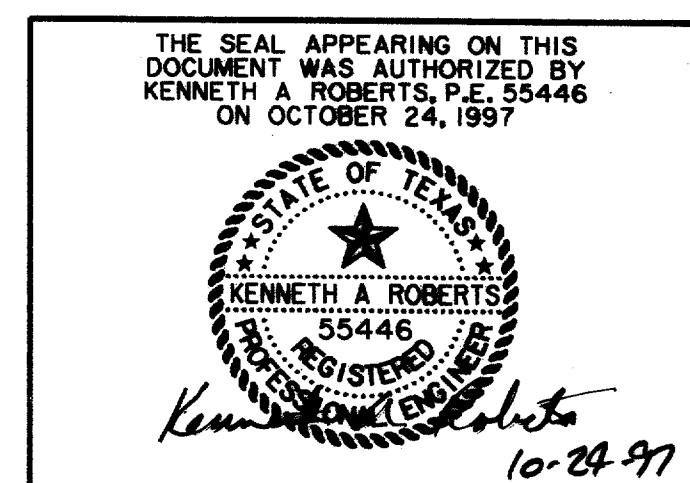
**4 LANES UNDIVIDED  
EXISTING ARAPAHO ROAD**

**NOTES:**

1. BACKFILL MATERIAL NOT A SEPARATE PAY ITEM. MATERIAL ACQUIRED FROM EXCAVATION MAY BE USED IF APPROVED BY TOWN.
2. PAY LIMIT FOR UNCLASSIFIED EXCAVATION CALCULATED AT BACK OF CURB.
3. 3\"/>
4. A NO. 9 GALVANIZED WIRE SHALL BE PLACED IN ALL CONDUIT. THIS WIRE SHALL EXTEND A MINIMUM OF 1' BEYOND THE END OF THE CONDUIT. MARKER TAPE IS TO BE INSTALLED ON THE ENDS OF ALL CONDUIT WITH CAP.
5. CONTACT T.U. ELECTRIC COMPANY PRIOR TO INSTALLING PULL BOXES. PLACEMENT OF ELECTRIC HANDHOLE BOXES SHALL BE AS DIRECTED BY T.U. ELECTRIC COMPANY.
6. 2\"/>
7. THE LETTER 'C' WILL BE STAMPED OR CHISELED ON CURB AT ALL LOCATIONS OF CONDUIT UNDER DRIVE AND INTERSECTIONS.
8. ALL TRANSVERSE JOINTS SHALL BE ON MAX. 12' CENTERS.
9. PROFILE GRADES SHOWN ON THE PAVING PLAN AND PROFILE SHEETS ARE TOP OF CURB AT BACK OF CURB UNLESS NOTED OTHERWISE ON THE PLANS.
10. SEE PAVING PLAN VIEWS FOR MEDIAN AND RIGHT TURN LANE TOP OF CURB GRADES.
11. THE FINAL FINISH ON THE CONCRETE STREET PAVEMENT SHALL CONSIST OF A COMBINATION OF A LONGITUDINAL CARPET DRAG AND TRANSVERSE METAL TINE FINISH AS DESCRIBED IN TxDOT STANDARD SPECIFICATIONS FOR ITEM 360 - CONCRETE PAVEMENT UNLESS SPECIFIED OTHERWISE IN THE PLANS.

**JOINT LEGEND:**

- ① - SAWED LONGITUDINAL DUMMY JOINT
- ② - CONSTRUCTION JOINT (FULL WIDTH PVM'T. IS ALLOWED WHERE APPROVED BY THE TOWN OF ADDISON.)

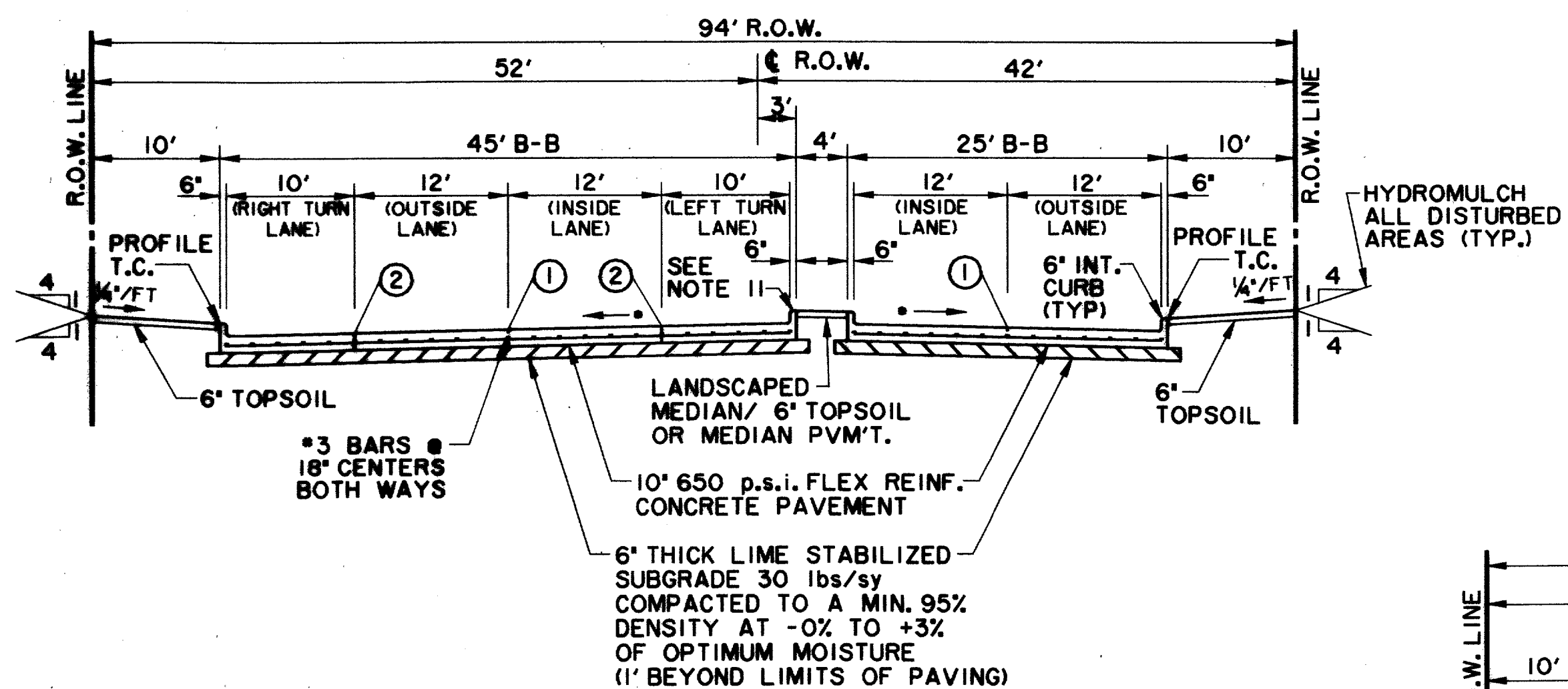


PAVING TYPICAL SECTIONS							
ARAPAHO ROAD							
ADDISON ROAD TO DALLAS NORTH TOLLWAY							
TOWN OF ADDISON, TEXAS							
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin							
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.	
HZI	HZI	KAR	1" = 10'	OCT 97	1772-01	P-1	

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

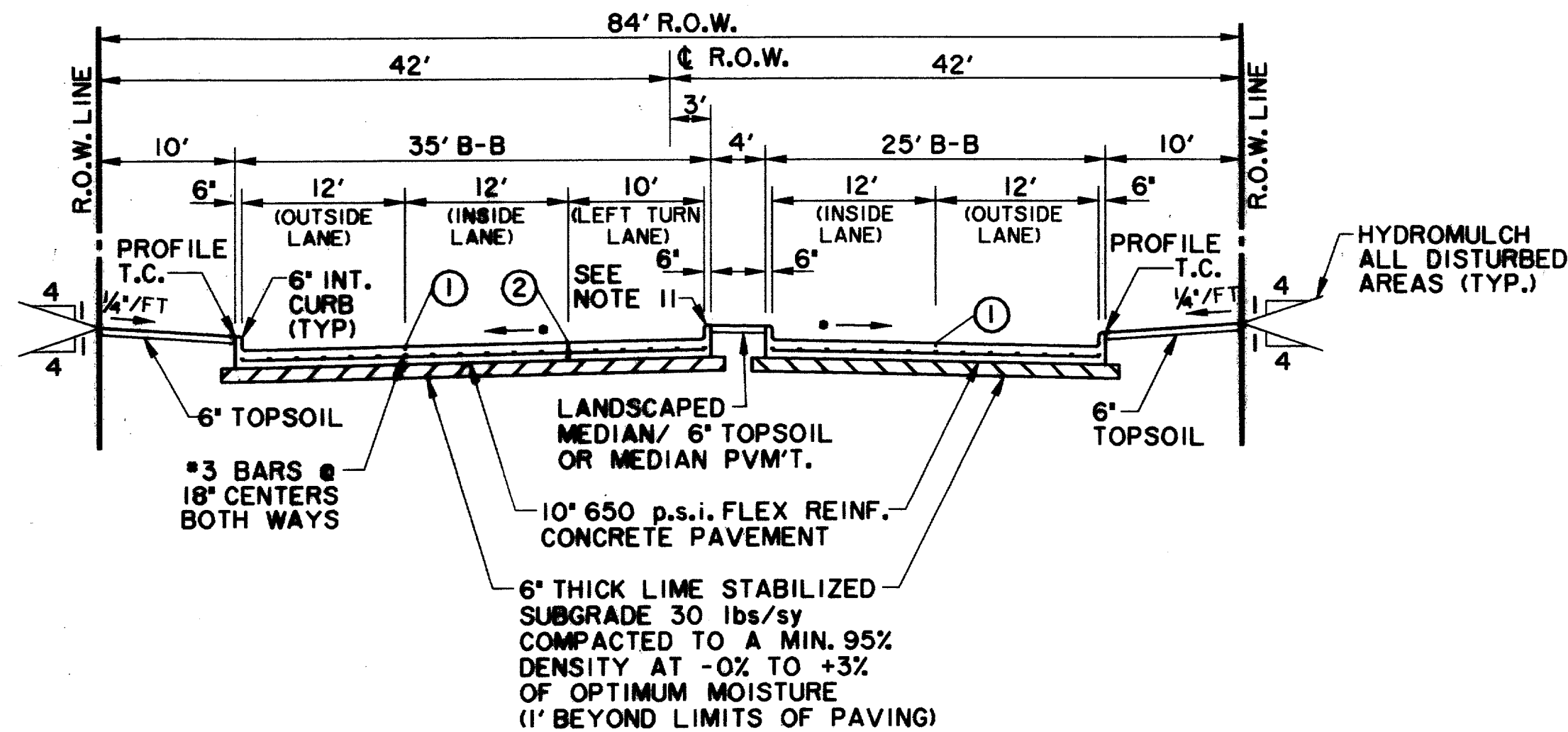




**TYPICAL SECTION 4 LANE DIVIDED WITH LEFT & RIGHT TURN LANE**

**ARAPAHO ROAD**

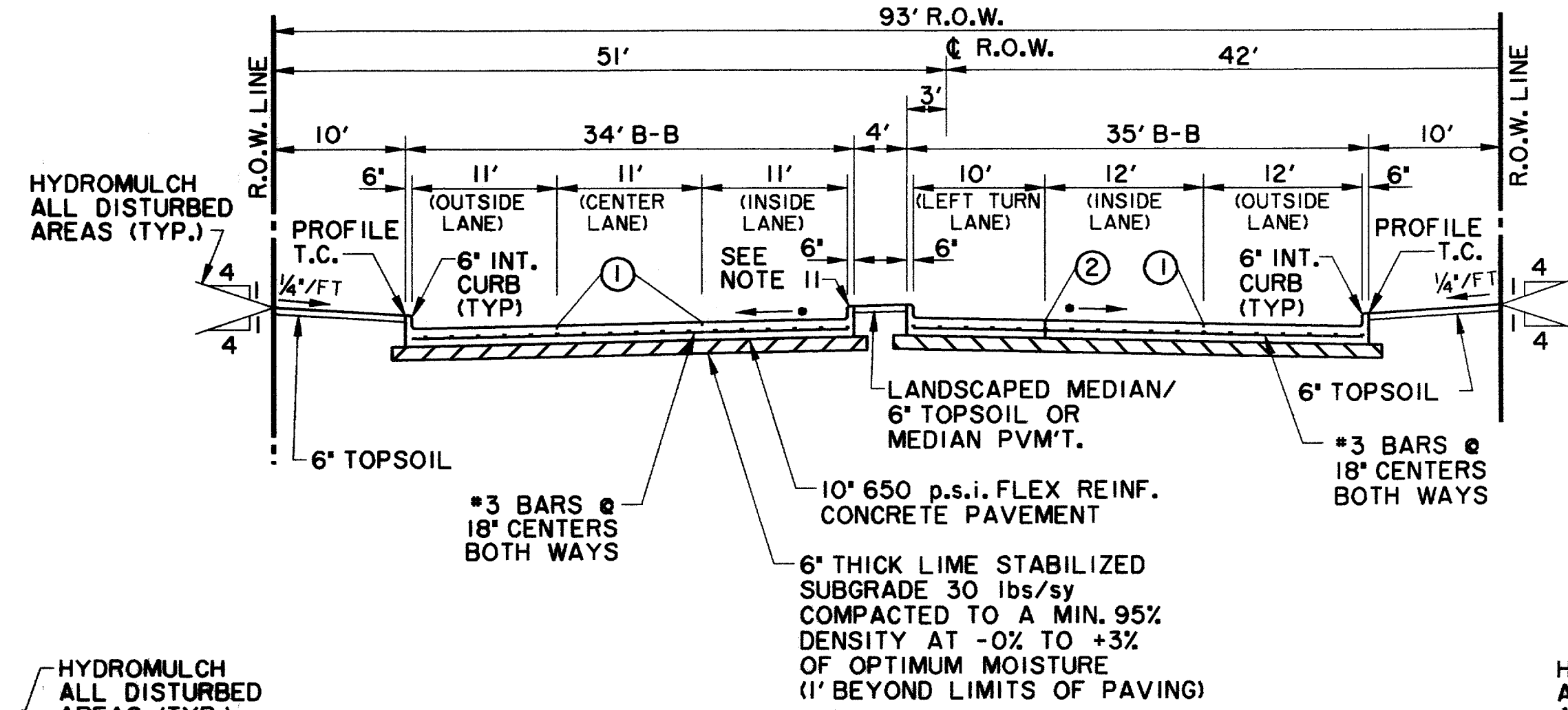
•PAVEMENT CROSS-SLOPES VARY FROM THE TYPICAL 1/4"/1' ALONG THE ENTIRE LENGTH OF THE PROJECT. SEE PAVING PLANS FOR PROPOSED MEDIAN GRADES.



**TYPICAL SECTION 4 LANE DIVIDED WITH LEFT TURN LANE**

**ARAPAHO ROAD**

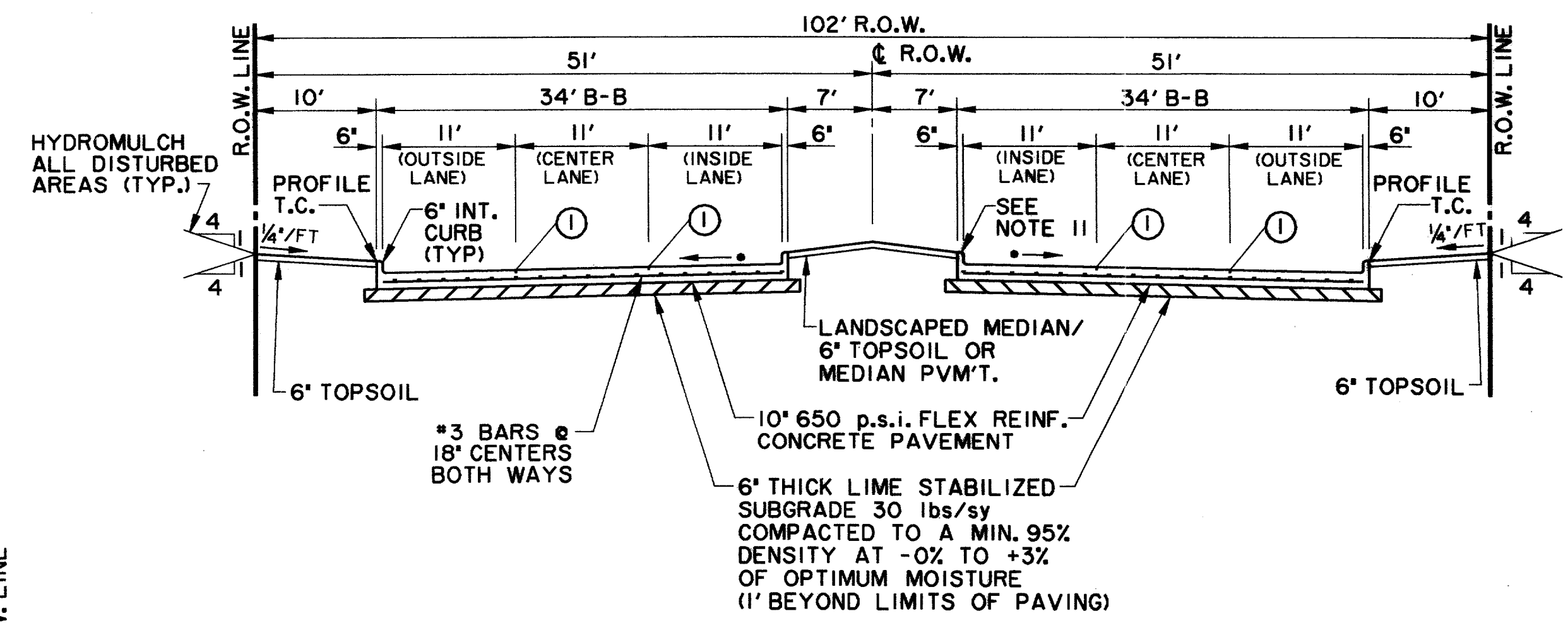
•PAVEMENT CROSS-SLOPES VARY FROM THE TYPICAL 1/4"/1' ALONG THE ENTIRE LENGTH OF THE PROJECT. SEE PAVING PLANS FOR PROPOSED MEDIAN GRADES.



**TYPICAL SECTION 5 LANE DIVIDED 2 EASTBOUND LANES WITH LEFT TURN LANE & 3 WESTBOUND LANES**

**ARAPAHO ROAD**

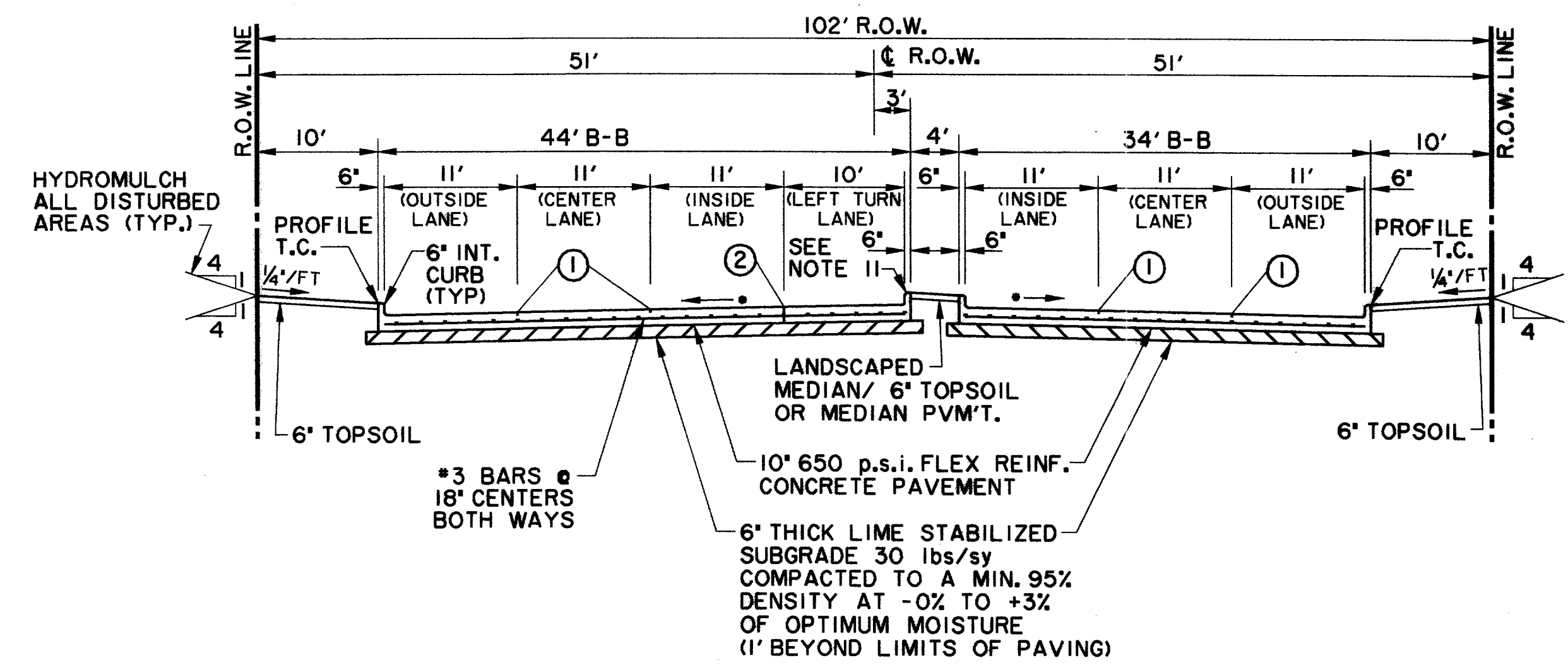
•PAVEMENT CROSS-SLOPES VARY FROM THE TYPICAL 1/4"/1' ALONG THE ENTIRE LENGTH OF THE PROJECT. SEE PAVING PLANS FOR PROPOSED MEDIAN GRADES.



**TYPICAL SECTION 6 LANE DIVIDED**

**ARAPAHO ROAD**

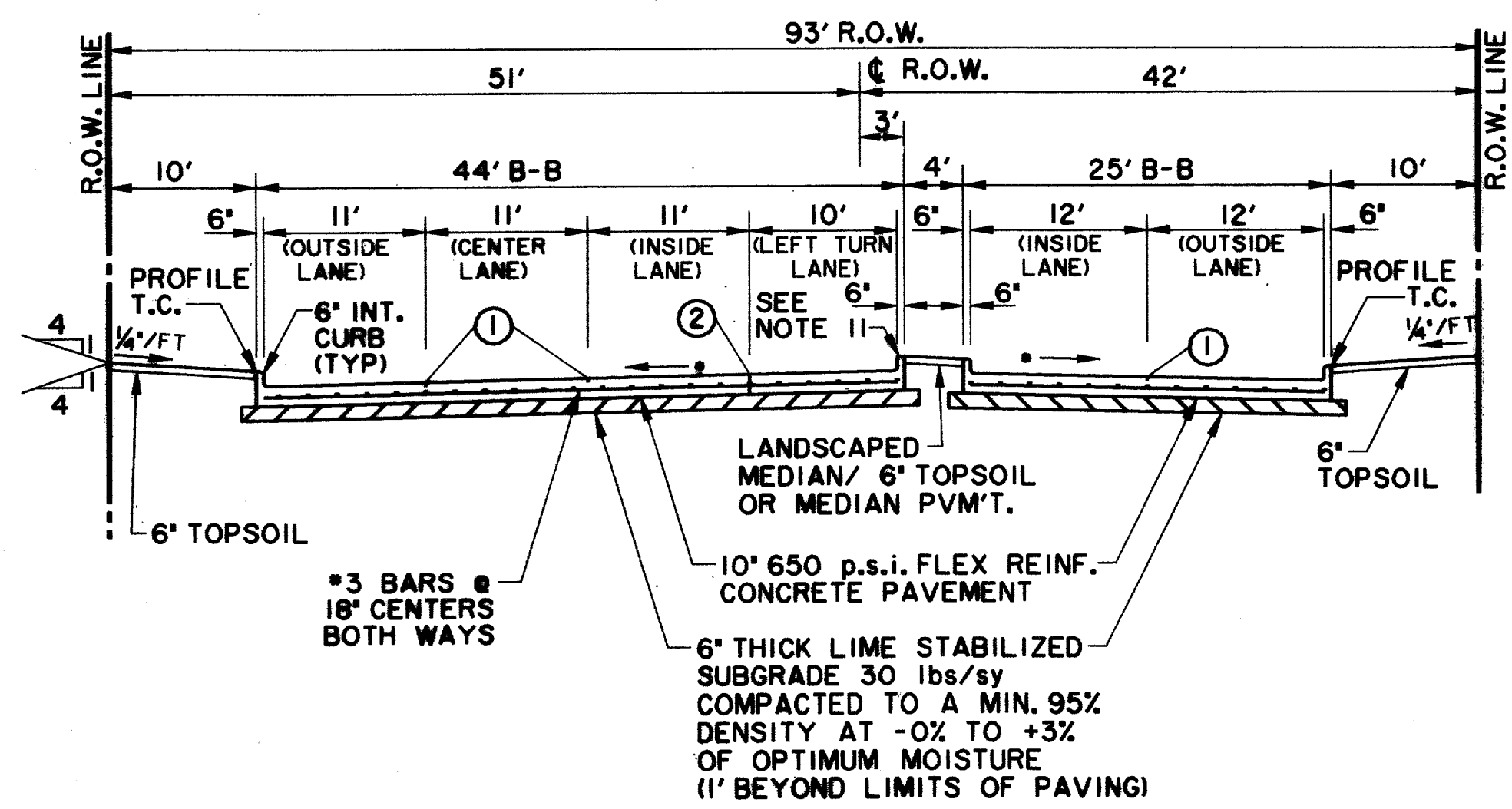
•PAVEMENT CROSS-SLOPES VARY FROM THE TYPICAL 1/4"/1' ALONG THE ENTIRE LENGTH OF THE PROJECT. SEE PAVING PLANS FOR PROPOSED MEDIAN GRADES.



**TYPICAL SECTION 6 LANE DIVIDED WITH LEFT TURN LANE**

**ARAPAHO ROAD**

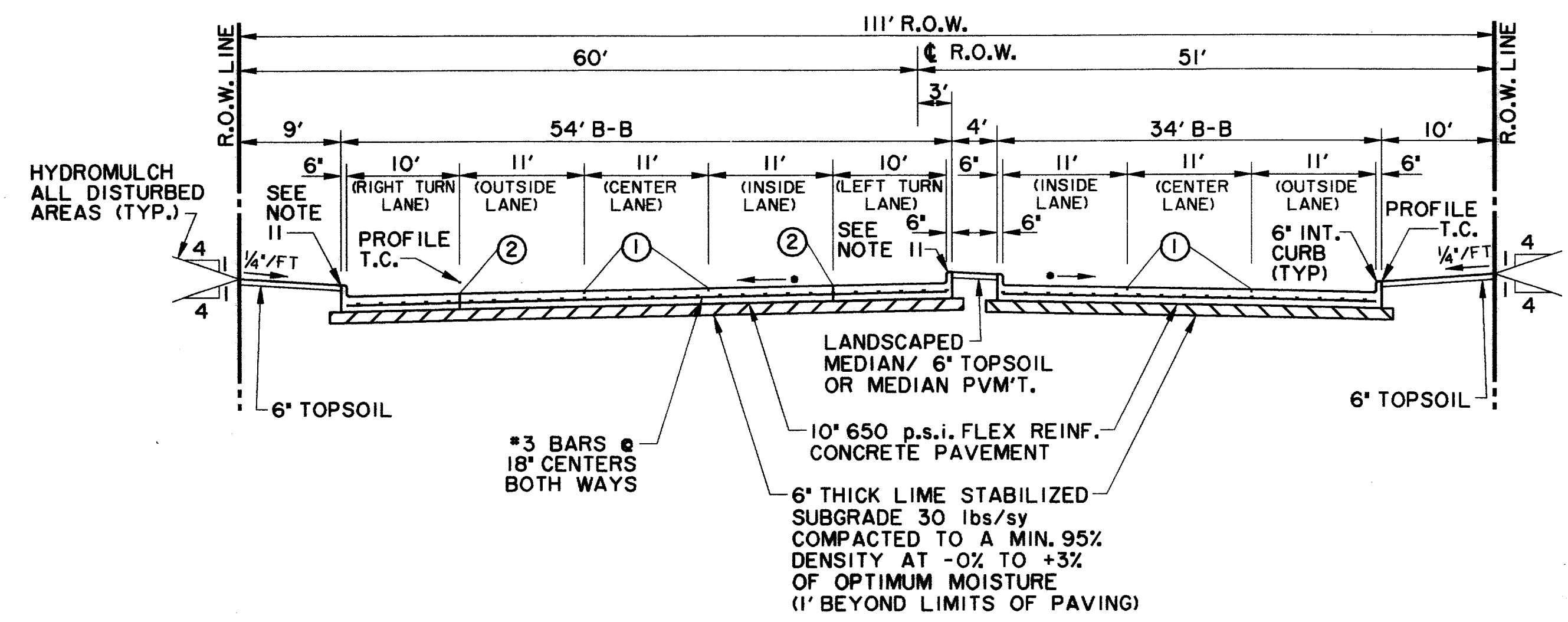
•PAVEMENT CROSS-SLOPES VARY FROM THE TYPICAL 1/4"/1' ALONG THE ENTIRE LENGTH OF THE PROJECT. SEE PAVING PLANS FOR PROPOSED MEDIAN GRADES.



**TYPICAL SECTION 5 LANE DIVIDED 2 EASTBOUND LANES & 3 WESTBOUND LANES WITH LEFT TURN LANE**

**ARAPAHO ROAD**

•PAVEMENT CROSS-SLOPES VARY FROM THE TYPICAL 1/4"/1' ALONG THE ENTIRE LENGTH OF THE PROJECT. SEE PAVING PLANS FOR PROPOSED MEDIAN GRADES.



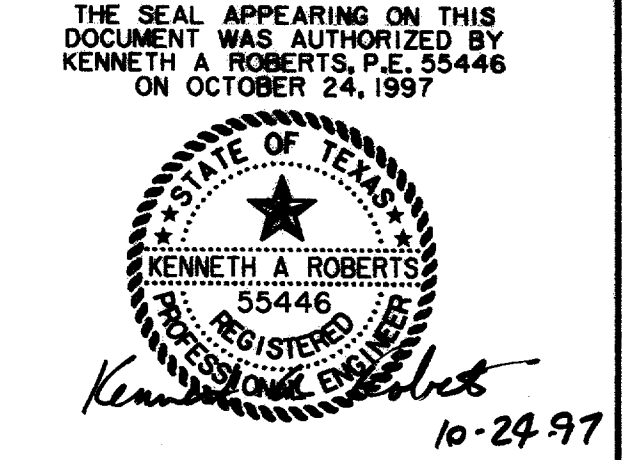
**TYPICAL SECTION 6 LANE DIVIDED WITH LEFT & RIGHT TURN LANE**

**ARAPAHO ROAD**

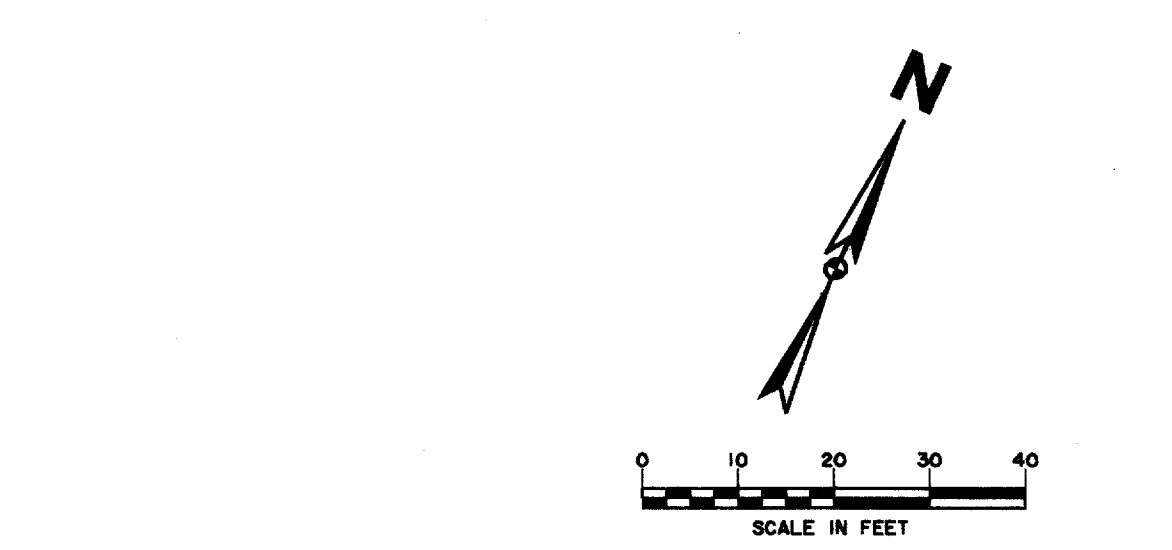
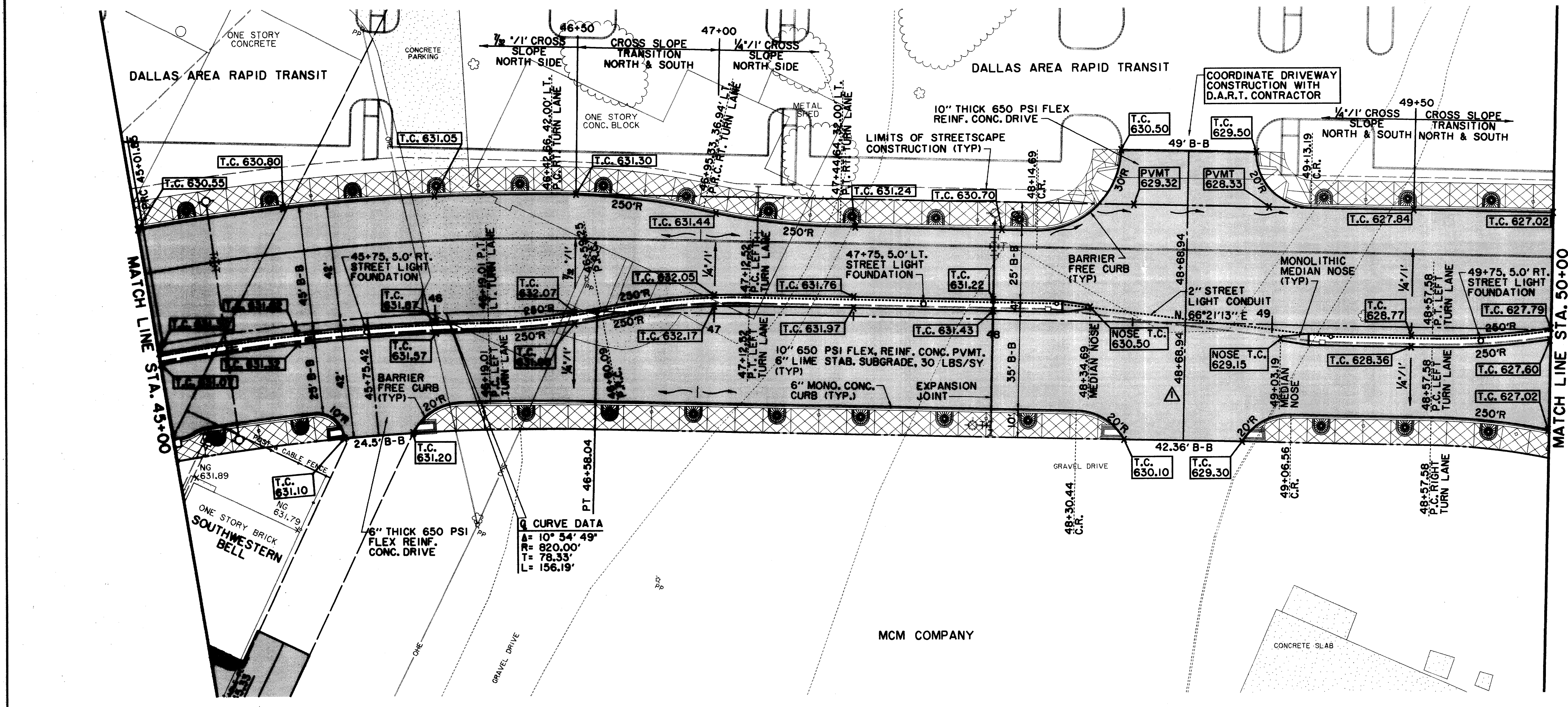
•PAVEMENT CROSS-SLOPES VARY FROM THE TYPICAL 1/4"/1' ALONG THE ENTIRE LENGTH OF THE PROJECT. SEE PAVING PLANS FOR PROPOSED MEDIAN GRADES.

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



PAVING TYPICAL SECTIONS						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1" = 10'	OCT 97	1772-01	P-2

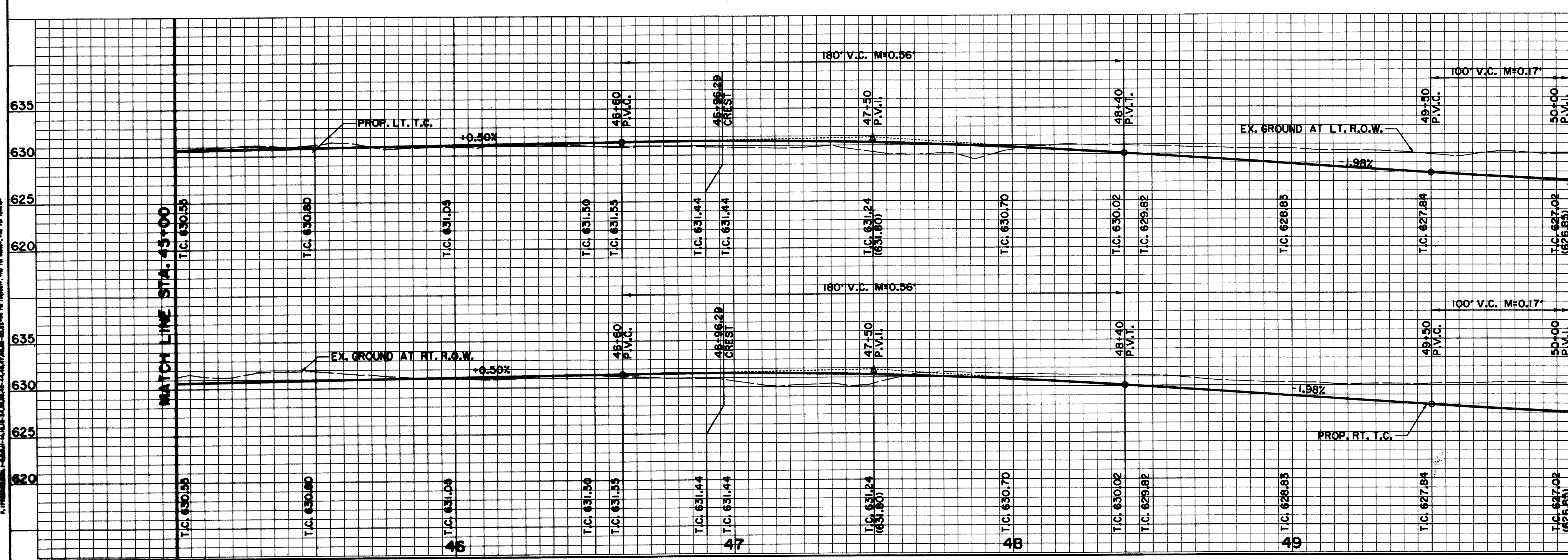


SEE STREETScape PLANS FOR SIDEWALK, LANDSCAPING, IRRIGATION, LIGHTING AND PAVEMENT ENHANCEMENT DETAILS.

RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

**LEGEND**

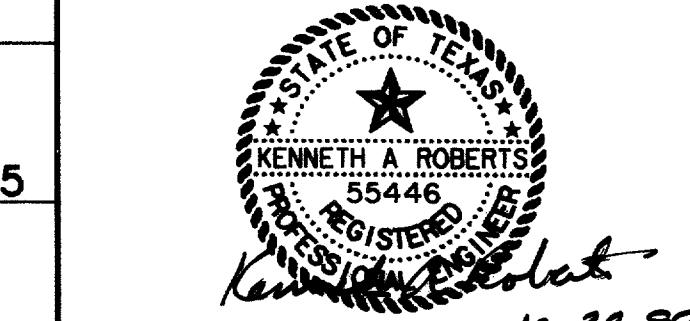
ELECTRIC — OH —	WATER — W —
○ LIGHT POLE	FH FIRE HYDRANT
PP POWER POLE	WM METER
— GUY WIRE	T WATER VALVE
TELEPHONE — T —	MISC.
● TELEPHONE MANHOLE	48" RCP R.C.P. REMOVAL
□ TELEPHONE PEDESTAL	— CHAIN LINK FENCE
TS TELEPHONE SIGN	— WOOD FENCE
GAS — G —	— EXISTING ASPHALT
GM GAS METER	— EXISTING DIRT OR GRAVEL
GS GAS SIGN	— EX. CONCRETE
LAND USE	— TREE/TREE LINE
R/R RAILROAD SIGN	— EXISTING CURB
— SURVEY	— PROP. CURB
I.R. FOUND IRON ROD	— EX. PROPERTY LINE
□ TEMP BENCHMARK	— PROP. CENTERLINE
WASTEWATER — WW —	— PROP. R.O.W.
● WASTEWATER MANHOLE	— PROP. INLET
CO CLEANOUT	P.V.M.T. TOP OF PAVEMENT
	T.C. TOP OF CURB
	C.R. CURB RETURN



**BENCHMARKS:**  
 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND, ELEV. 650.61

"□" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD, ELEV. 630.61

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



REVISÉ 1/16/98

**PAVING PLAN & PROFILE**  
 STA. 45+00 TO STA. 50+00  
**ARAPAHO ROAD**  
 ADDISON ROAD TO DALLAS NORTH TOLLWAY  
 TOWN OF ADDISON, TEXAS  
 Huitt-Zollars, Inc./Consulting Engineers  
 Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H: 1"=20' V: 1"=8'	OCT 97	1772-01	P-4

ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HUIIT-ZOLLARS, INC. AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE OR DISTRIBUTION OF THIS INFORMATION WITHOUT THE WRITTEN PERMISSION OF HUIIT-ZOLLARS, INC. IS STRICTLY PROHIBITED.

COORDINATE CONSTRUCTION WITH D.A.R.T. CONTRACTOR

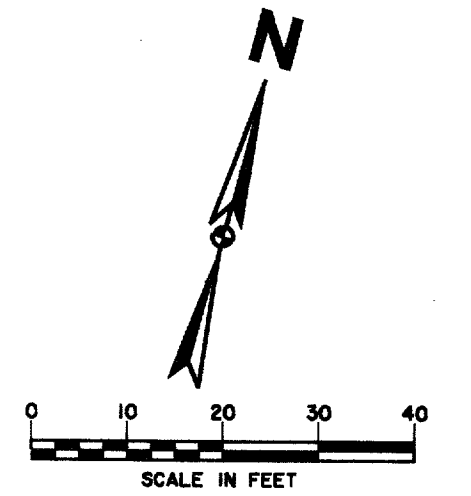
CROSS SLOPE 1/4" / 1' CROSS SLOPE TRANSITION NORTH & SOUTH

LIMITS OF STREETScape CONSTRUCTION (TYP)

BROOKS BURIED CABLE. CONTACT THERESA HARDIN 972/753-1900 48 HOURS PRIOR TO ANY CONSTRUCTION IN THIS AREA

TOWN OF ADDISON

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

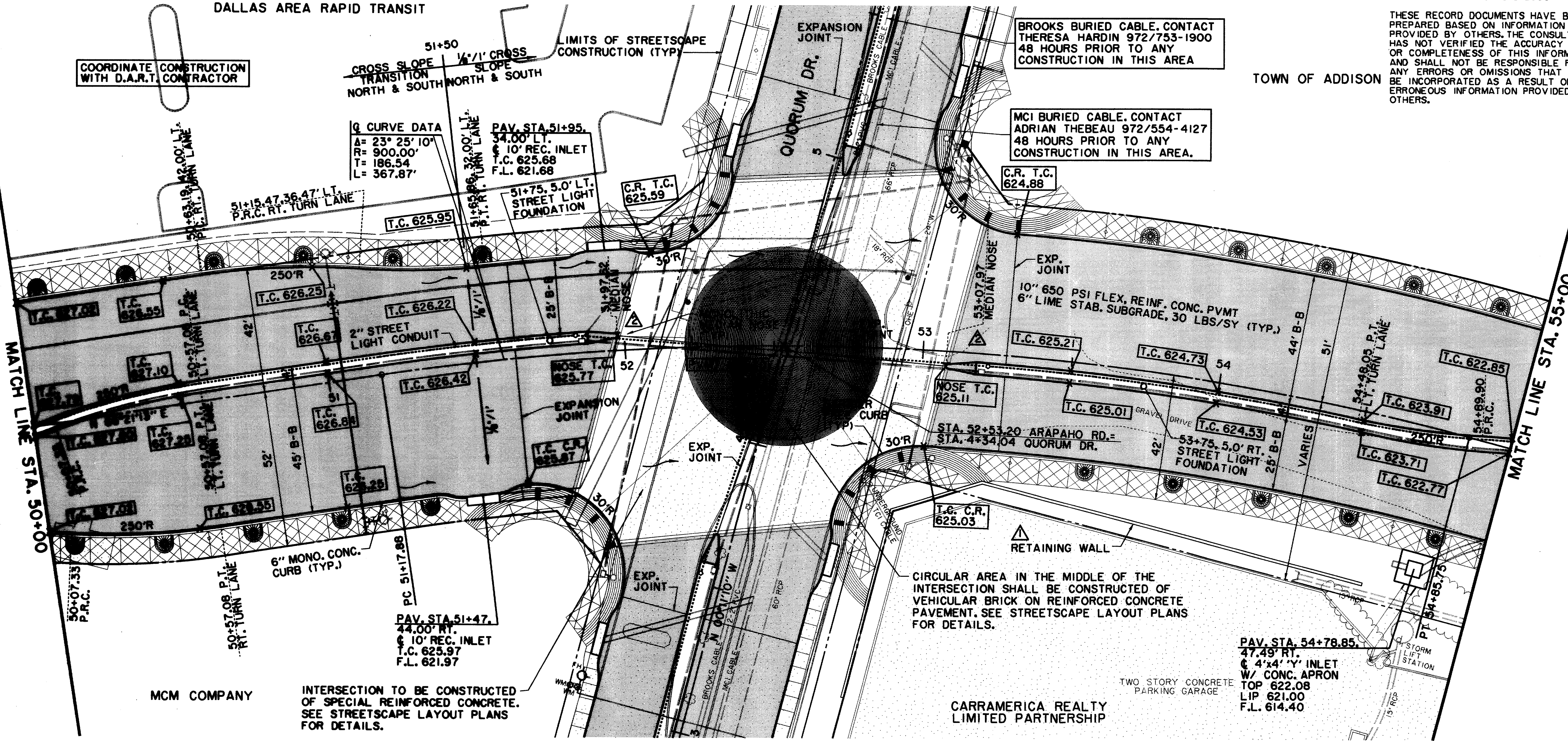


SEE STREETScape PLANS FOR SIDEWALK, LANDSCAPING, IRRIGATION, LIGHTING AND PAVEMENT ENHANCEMENT DETAILS.

NOTE: EXISTING FILL MATERIAL TO DEPTHS OF 4-6 FEET, FROM APPROXIMATELY PAVING STATION 53+00 TO 56+00, CONSISTING OF BROKEN LIMESTONE AND MISCELLANEOUS DEBRIS SHALL BE EXCAVATED, REMOVED AND DISPOSED OF AND REPLACED WITH ON-SITE SOILS COMPACTED IN LIFTS AS DESCRIBED IN THE SPECIFICATIONS.

LEGEND

ELECTRIC — OHE	WATER — W
○ LIGHT POLE	FH FIRE HYDRANT
PP POWER POLE	WM METER
— GUY WIRE	T WATER VALVE
TELEPHONE — T	MISC.
MH TELEPHONE MANHOLE	48" RCP R.C.P. REMOVAL
TELEPHONE PEDESTAL	CHAIN LINK FENCE
TS TELEPHONE SIGN	WOOD FENCE
GM GAS METER	EXISTING ASPHALT
GS GAS SIGN	EXISTING DIRT OR GRAVEL
LAND USE	EX. CONCRETE
R.R. RAILROAD SIGN	TREE/TREE LINE
SIGN	EXISTING CURB
SURVEY	PROP. CURB
I.R. FOUND IRON ROD	EX. PROPERTY LINE
TEMP BENCHMARK	PROP. CENTERLINE
WASTEWATER — WW	PROP. R.O.W.
MH WASTEWATER MANHOLE	PROP. INLET
CO CLEANOUT	PVMT TOP OF PAVEMENT
	T.C. TOP OF CURB
	C.R. CURB RETURN



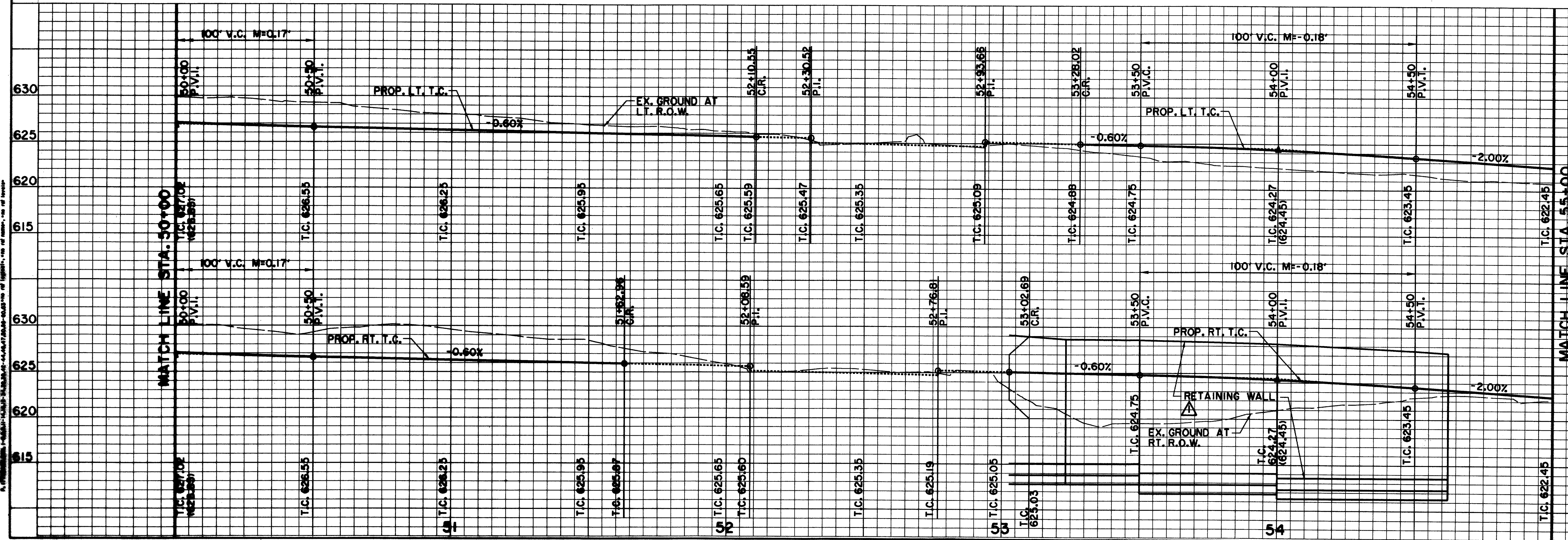
MCM COMPANY

INTERSECTION TO BE CONSTRUCTED OF SPECIAL REINFORCED CONCRETE. SEE STREETScape LAYOUT PLANS FOR DETAILS.

CARRAMERICA REALTY LIMITED PARTNERSHIP

TWO STORY CONCRETE PARKING GARAGE

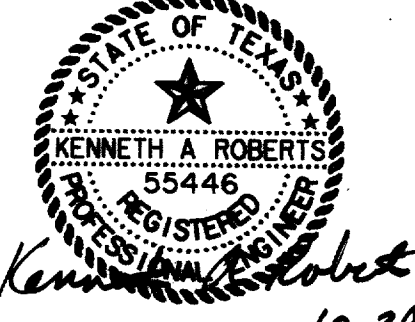
PAV. STA. 54+78.85  
47.49' RT.  
4" x 4" INLET  
W/ CONC. APRON  
TOP 622.08  
LIP 621.00  
F.L. 614.40



**BENCHMARKS:**  
USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61

'I' ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61

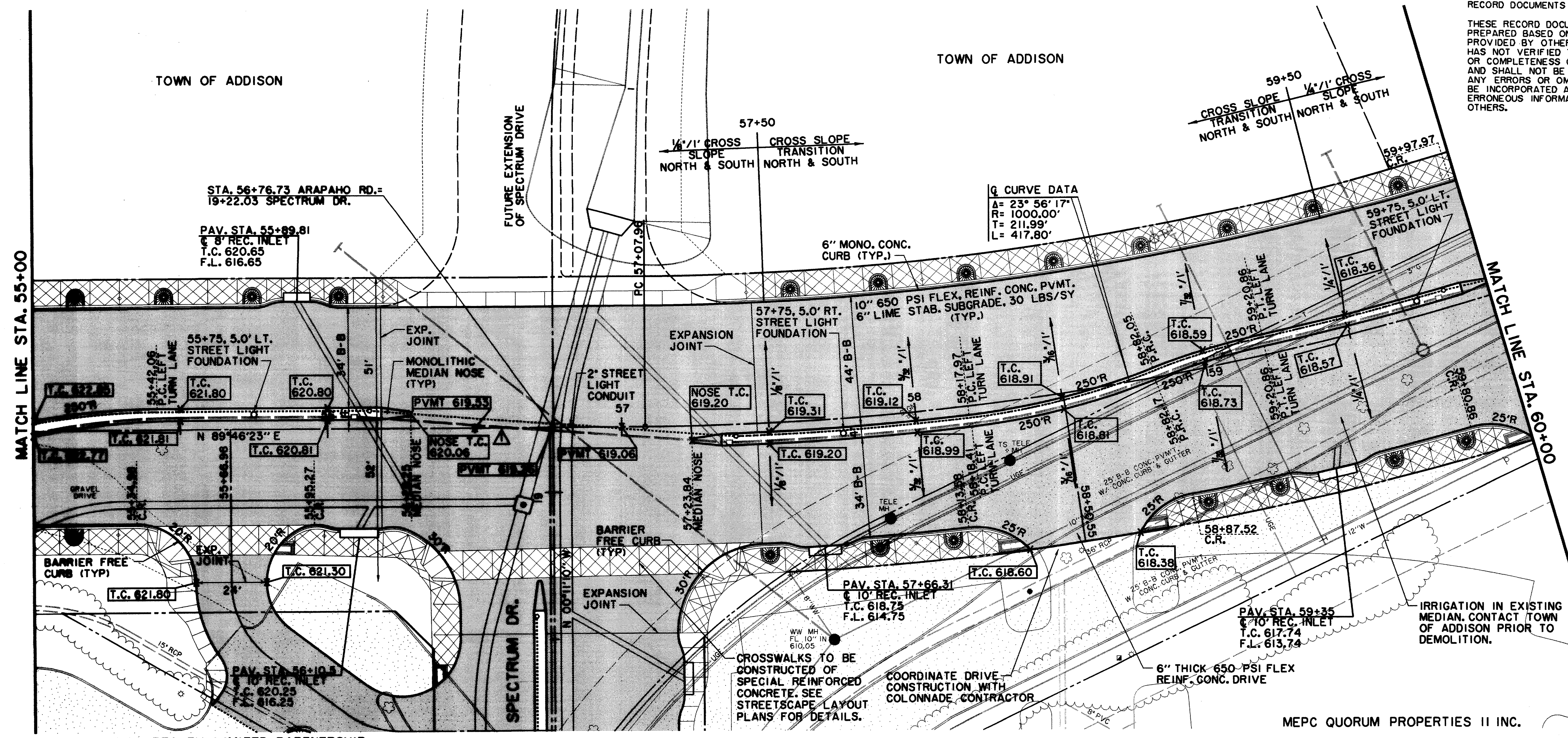
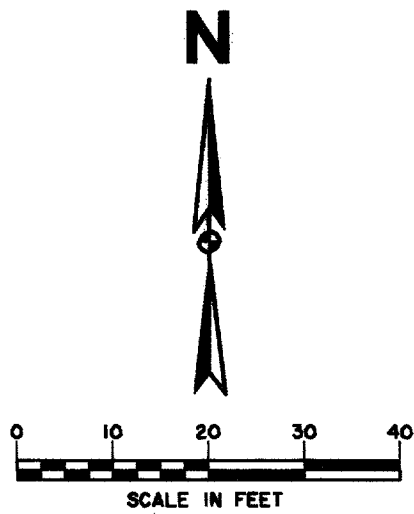
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



REVISED 1/16/98  
ADDENDUM #4 12/12/97

<p>PAVING PLAN &amp; PROFILE STA. 50+00 TO STA. 55+00 <b>ARAPAHO ROAD</b> ADDISON ROAD TO DALLAS NORTH TOLLWAY TOWN OF ADDISON, TEXAS Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Austin</p>					
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.
HZI	HZI	KAR	1/4" = 20' 1/8" = 6'	OCT 97	1772-01
					P-5

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



SEE STREETScape PLANS FOR SIDEWALK, LANDSCAPING, IRRIGATION, LIGHTING AND PAVEMENT ENHANCEMENT DETAILS.

**NOTE:**  
EXISTING FILL MATERIAL TO DEPTHS OF 4-6 FEET, FROM APPROXIMATELY PAVING STATION 53+00 TO 56+00, CONSISTING OF BROKEN LIMESTONE AND MISCELLANEOUS DEBRIS SHALL BE EXCAVATED, REMOVED AND DISPOSED OF AND REPLACED WITH ON-SITE SOILS COMPACTED IN LIFTS AS DESCRIBED IN THE SPECIFICATIONS.

**LEGEND**

	ELECTRIC		WATER
	LIGHT POLE		FIRE HYDRANT
	POWER POLE		METER
	GUY WIRE		WATER VALVE
	TELEPHONE MANHOLE		MISC.
	TELEPHONE PEDESTAL		CHAIN LINK FENCE
	TELEPHONE SIGN		WOOD FENCE
	GAS METER		EXISTING ASPHALT
	GAS SIGN		EXISTING DIRT OR GRAVEL
	LAND USE		EX. CONCRETE
	RAILROAD SIGN		TREE/TREE LINE
	SIGN		EXISTING CURB
	SURVEY		PROP. CURB
	FOUND IRON ROD		EX. PROPERTY LINE
	TEMP BENCHMARK		PROP. CENTERLINE
	WASTEWATER MANHOLE		PROP. R.O.W.
	CLEANOUT		PROP. INLET
			TOP OF PAVEMENT
			TOP OF CURB
			CURB RETURN

ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND DECIMALS THEREOF.  
 ALL DIMENSIONS SHALL BE TO CENTERLINE UNLESS OTHERWISE NOTED.  
 ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.  
 ALL DIMENSIONS SHALL BE TO CENTERLINE UNLESS OTHERWISE NOTED.  
 ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.

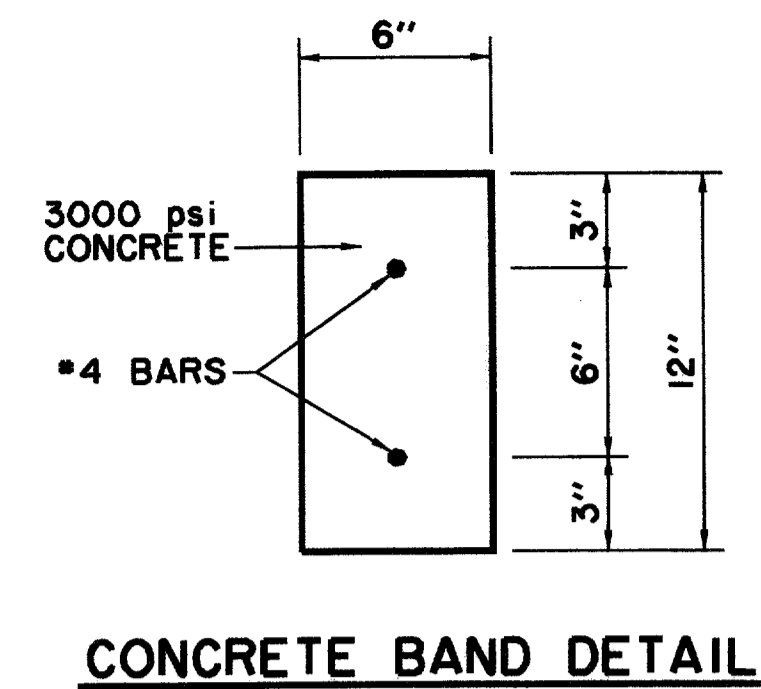
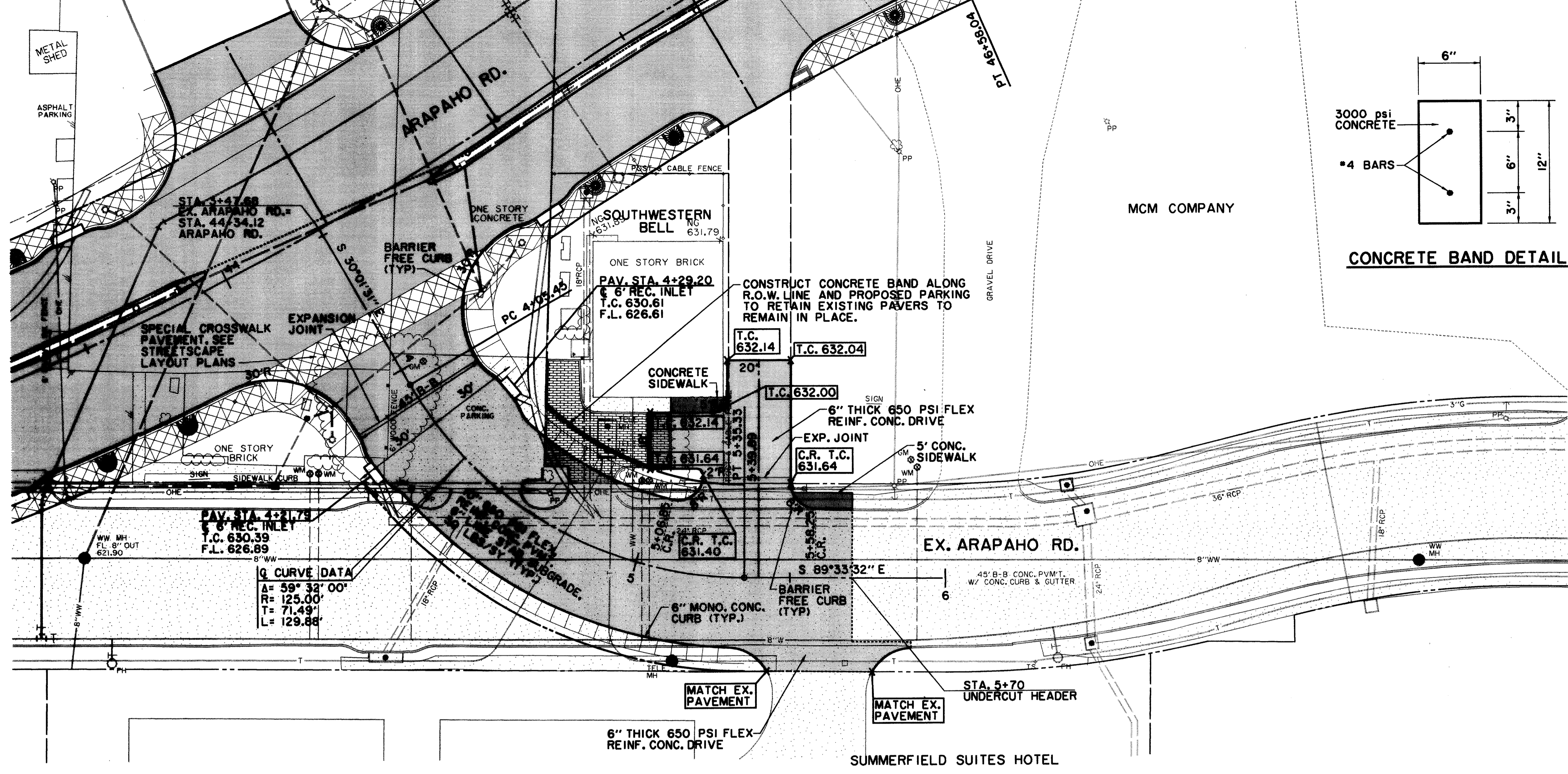
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997.

**BENCHMARKS:**  
 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61  
 'I' ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997.

10-24-97

PAVING PLAN & PROFILE STA. 55+00 TO STA. 60+00						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Austin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>v</sub> 1"=20' V <sub>v</sub> 1"=6'	OCT 97	1772-01	P-6



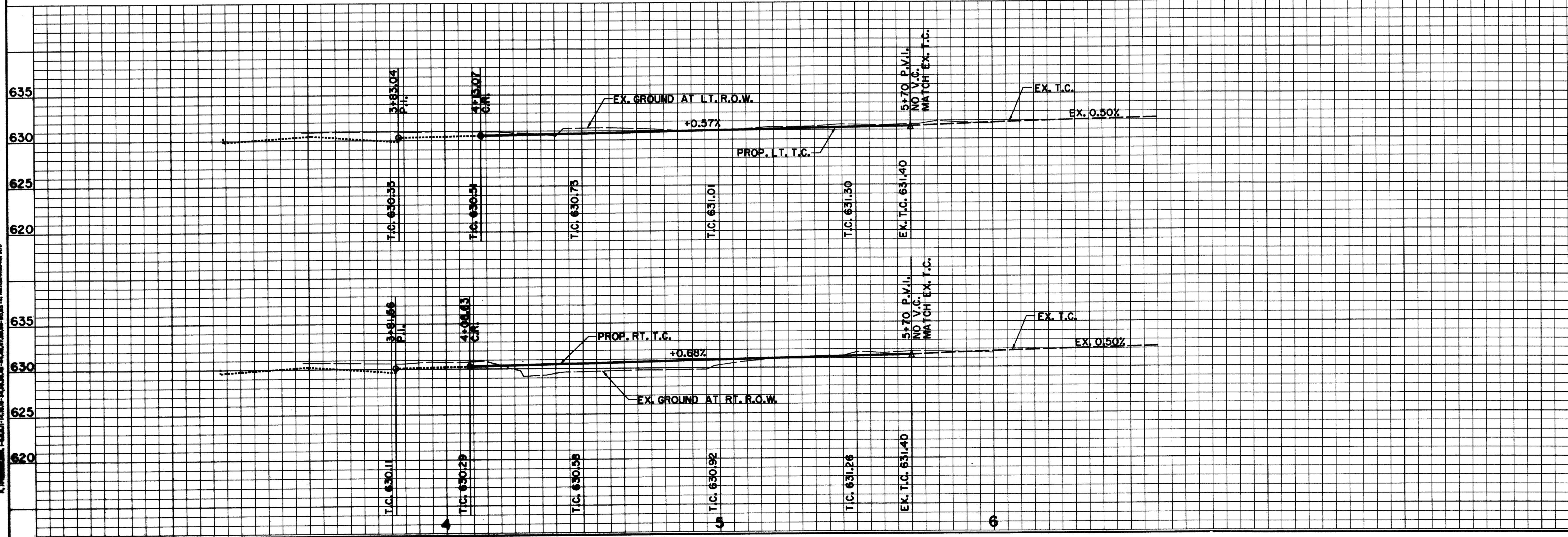
SEE STREETSCAPE PLANS FOR SIDEWALK, LANDSCAPING, IRRIGATION, LIGHTING AND PAVEMENT ENHANCEMENT DETAILS.

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

**LEGEND**

<b>ELECTRIC</b> — OHE —	<b>WATER</b> — W —
○ LIGHT POLE	FH ○ FIRE HYDRANT
PP ○ POWER POLE	WM ○ METER
— GUY WIRE	T WATER VALVE
<b>TELEPHONE</b> — T —	48" RCP
● TELEPHONE MANHOLE	X X X R.C.P. REMOVAL
□ TELEPHONE PEDESTAL	— CHAIN LINK FENCE
TS TELEPHONE SIGN	— WOOD FENCE
<b>GAS</b> — G —	— EXISTING ASPHALT
GM GAS METER	— EXISTING DIRT OR GRAVEL
GS GAS SIGN	— EX. CONCRETE
<b>LAND USE</b>	○ TREE/TREE LINE
R/R RAILROAD SIGN	— EXISTING CURB
□ SIGN	— PROP. CURB
<b>SURVEY</b>	— EX. PROPERTY LINE
I.R. FOUND IRON ROD	— PROP. CENTERLINE
□ TEMP BENCHMARK	— PROP. R.O.W.
<b>WASTEWATER</b> — WW —	— PROP. INLET
WM WASTEWATER MANHOLE	<b>PVMT</b> TOP OF PAVEMENT
CO CLEANOUT	<b>T.C.</b> TOP OF CURB
	<b>C.R.</b> CURB RETURN



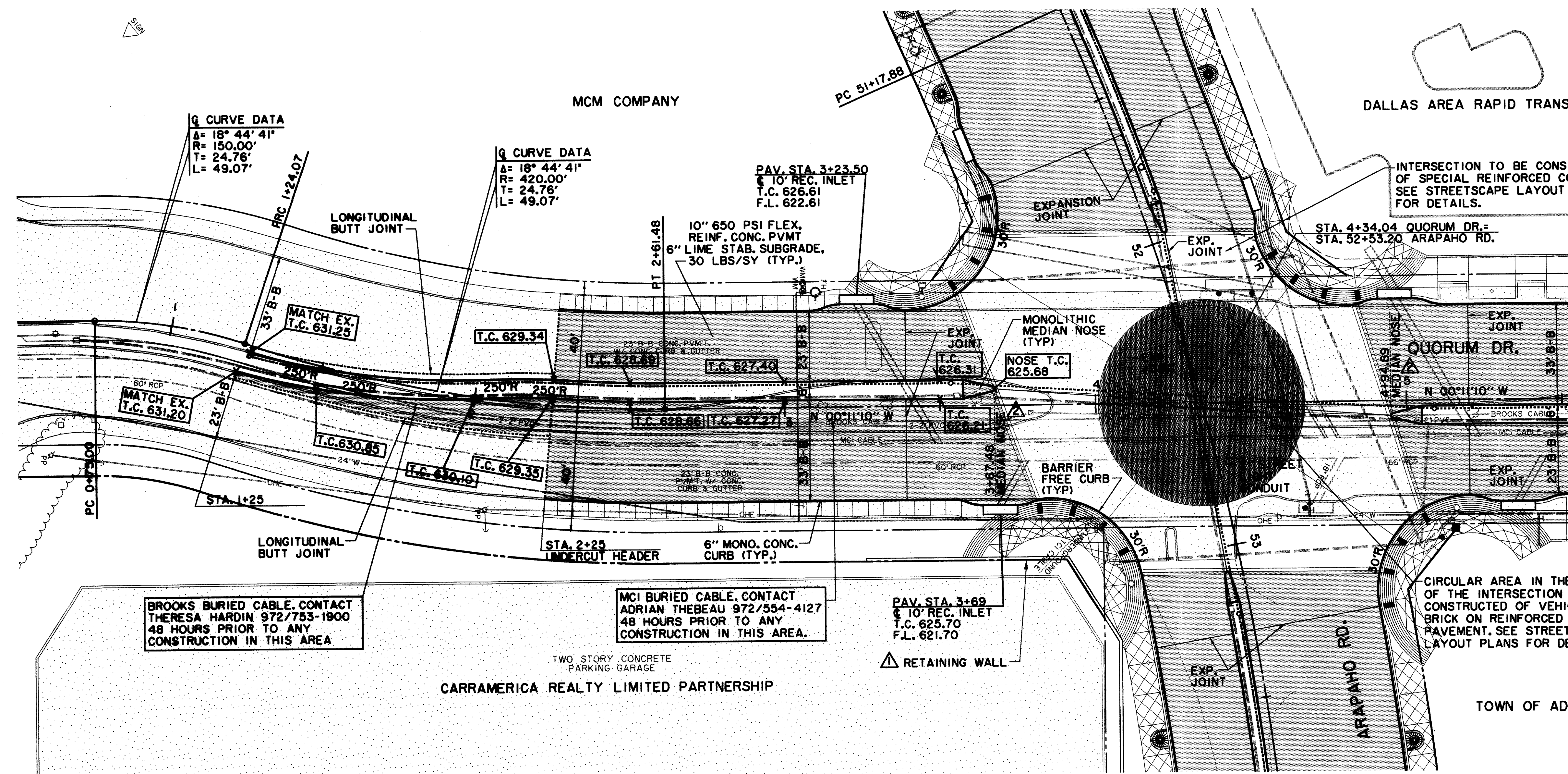
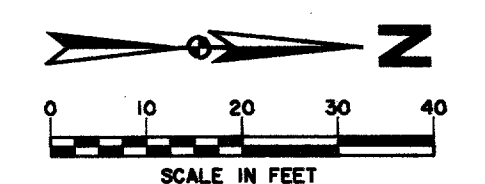
**BENCHMARKS:**  
 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND, ELEV. 650.61

630 "I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD, ELEV. 630.61

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

10-24-97

<b>PAVING PLAN &amp; PROFILE</b>						
EX. ARAPAHO STA. 3+47.68 TO STA. 5+70						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Austin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>v</sub> 1"=20' V <sub>s</sub> 1"=6'	OCT 97	1772-01	P-9



SEE STREETSCAPE PLANS FOR SIDEWALK, LANDSCAPING, IRRIGATION, LIGHTING AND PAVEMENT ENHANCEMENT DETAILS.

RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

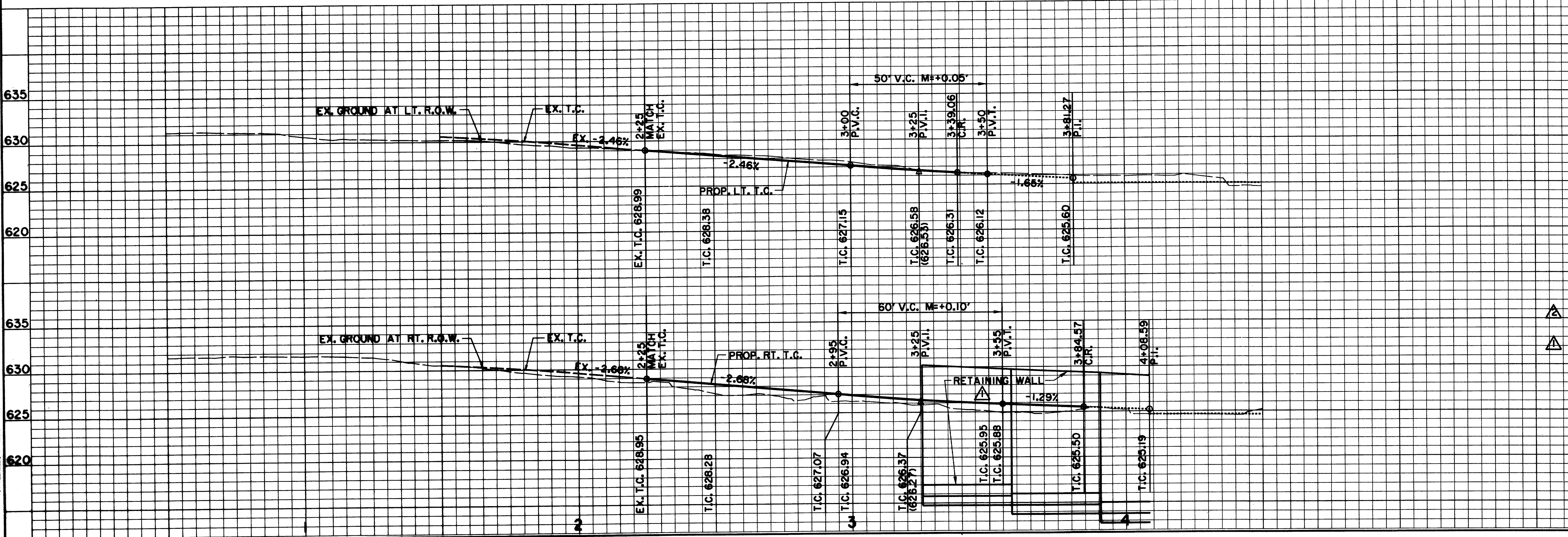
**LEGEND**

ELECTRIC — OHE	WATER — W
○ LIGHT POLE	FH FIRE HYDRANT
pp POWER POLE	WM METER
— GUY WIRE	T WATER VALVE
TELEPHONE — T	MISC.
● TELEPHONE MANHOLE	48" RCP R.C.P. REMOVAL
□ TELEPHONE PEDESTAL	— CHAIN LINK FENCE
TS TELEPHONE SIGN	— WOOD FENCE
GM GAS METER	— EXISTING ASPHALT
GS GAS SIGN	— EXISTING DIRT OR GRAVEL
LAND USE	— EX. CONCRETE
R/R RAILROAD SIGN	— TREE/TREE LINE
□ SIGN	— EXISTING CURB
IR FOUND IRON ROD	— PROP. CURB
■ TEMP BENCHMARK	— EX. PROPERTY LINE
WW WASTEWATER	— PROP. CENTERLINE
WM WASTEWATER MANHOLE	— PROP. R.O.W.
CO CLEANOUT	— PROP. INLET
	PVMT TOP OF PAVEMENT
	T.C. TOP OF CURB
	C.R. CURB RETURN

BROOKS BURIED CABLE. CONTACT THERESA HARDIN 972/753-1900 48 HOURS PRIOR TO ANY CONSTRUCTION IN THIS AREA

MCI BURIED CABLE. CONTACT ADRIAN THEBEAU 972/554-4127 48 HOURS PRIOR TO ANY CONSTRUCTION IN THIS AREA.

CIRCULAR AREA IN THE MIDDLE OF THE INTERSECTION SHALL BE CONSTRUCTED OF VEHICULAR BRICK ON REINFORCED CONCRETE PAVEMENT. SEE STREETSCAPE LAYOUT PLANS FOR DETAILS.



**BENCHMARKS:**  
 635 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61  
 630 "I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61  
 625  
 620

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

635  
 630

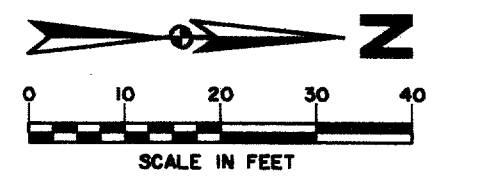
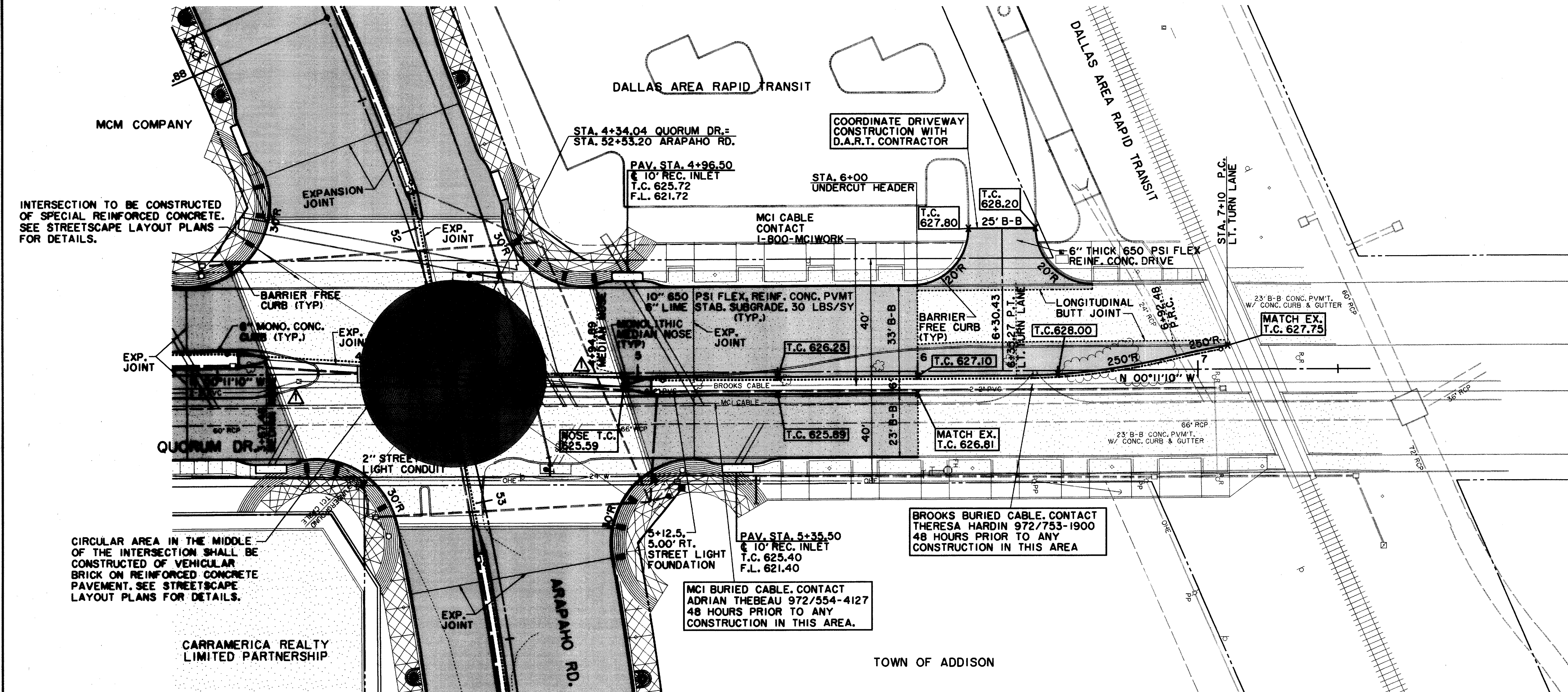
REVISED 1/16/98  
 ADDENDUM #4 12/12/97

10-29-97

**PAVING PLAN & PROFILE**  
 QUORUM DR. STA. 2+25 TO STA. 4+50  
**ARAPAHO ROAD**  
 ADDISON ROAD TO DALLAS NORTH TOLLWAY  
 TOWN OF ADDISON, TEXAS  
 Huitt-Zollars, Inc./Consulting Engineers  
 Dallas, Fort. Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>v</sub> 1"=20' V <sub>v</sub> 1"=6'	OCT 97	1772-01	P-10

ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND DECIMALS THEREOF.  
 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, TEXAS DEPARTMENT OF TRANSPORTATION, AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, TEXAS DEPARTMENT OF TRANSPORTATION.  
 THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.  
 THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997.  
 HUITT-ZOLLARS, INC. CONSULTING ENGINEERS  
 DALLAS, TEXAS 75201-1772  
 TEL: 972-440-1100 FAX: 972-440-1101  
 WWW: WWW.HUITTZOLLARS.COM



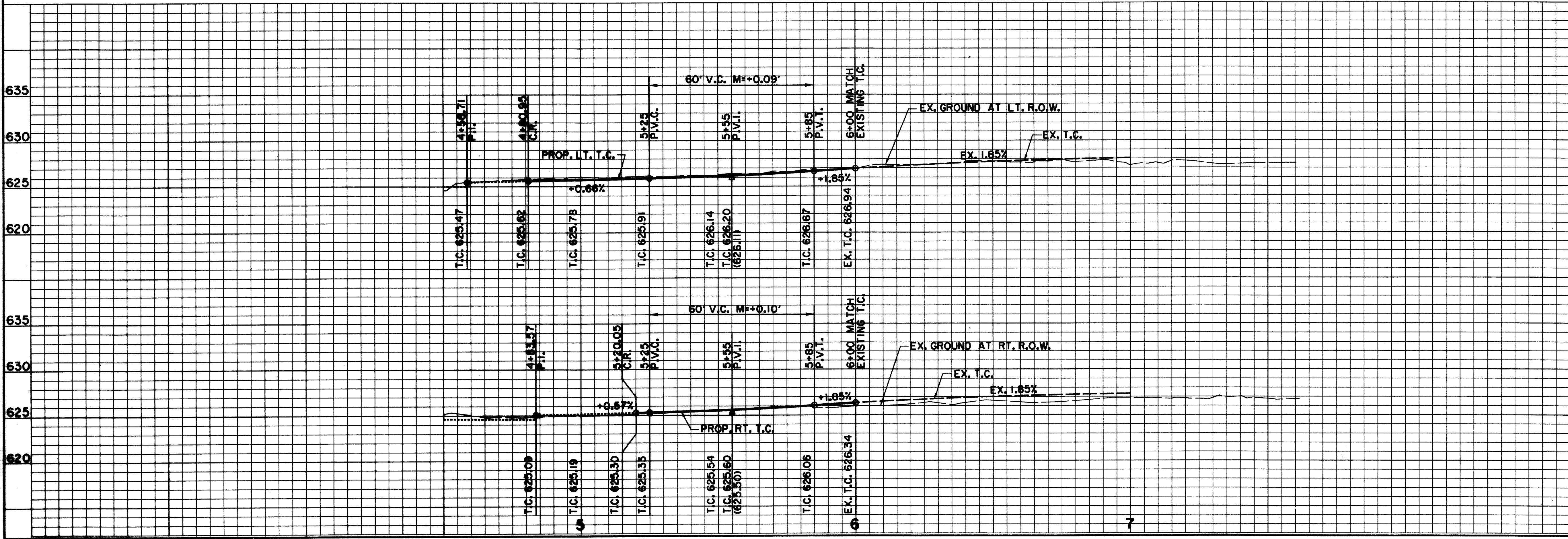
SEE STREETSCAPE PLANS FOR SIDEWALK, LANDSCAPING, IRRIGATION, LIGHTING AND PAVEMENT ENHANCEMENT DETAILS.

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

**LEGEND**

	ELECTRIC — O-E		WATER — W
	○ LIGHT POLE		FH FIRE HYDRANT
	pp POWER POLE		WM METER
	T TELEPHONE		T WATER VALVE
	TELE MH ● TELEPHONE MANHOLE		MISC. X X X R.C.P. REMOVAL
	TP TELEPHONE PEDESTAL		CL CHAIN LINK FENCE
	TS TELEPHONE SIGN		WF WOOD FENCE
	G GAS		EA EXISTING ASPHALT
	GM GAS METER		EG EXISTING DIRT OR GRAVEL
	GS GAS SIGN		EC EX. CONCRETE
	LU LAND USE		TL TREE/TREE LINE
	RR RAILROAD SIGN		ECB EXISTING CURB
	S SIGN		PCB PROP. CURB
	I.R. FOUND IRON ROD		EPL EX. PROPERTY LINE
	TEMP BENCHMARK		PCP PROP. CENTERLINE
	WW WASTEWATER		PROPR.O.W.
	WM WASTEWATER MANHOLE		PI PROP. INLET
	CO CLEANOUT		PROPR.O.W.
			PVMT TOP OF PAVEMENT
			T.C. TOP OF CURB
			C.R. CURB RETURN



**BENCHMARKS:**

635 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61

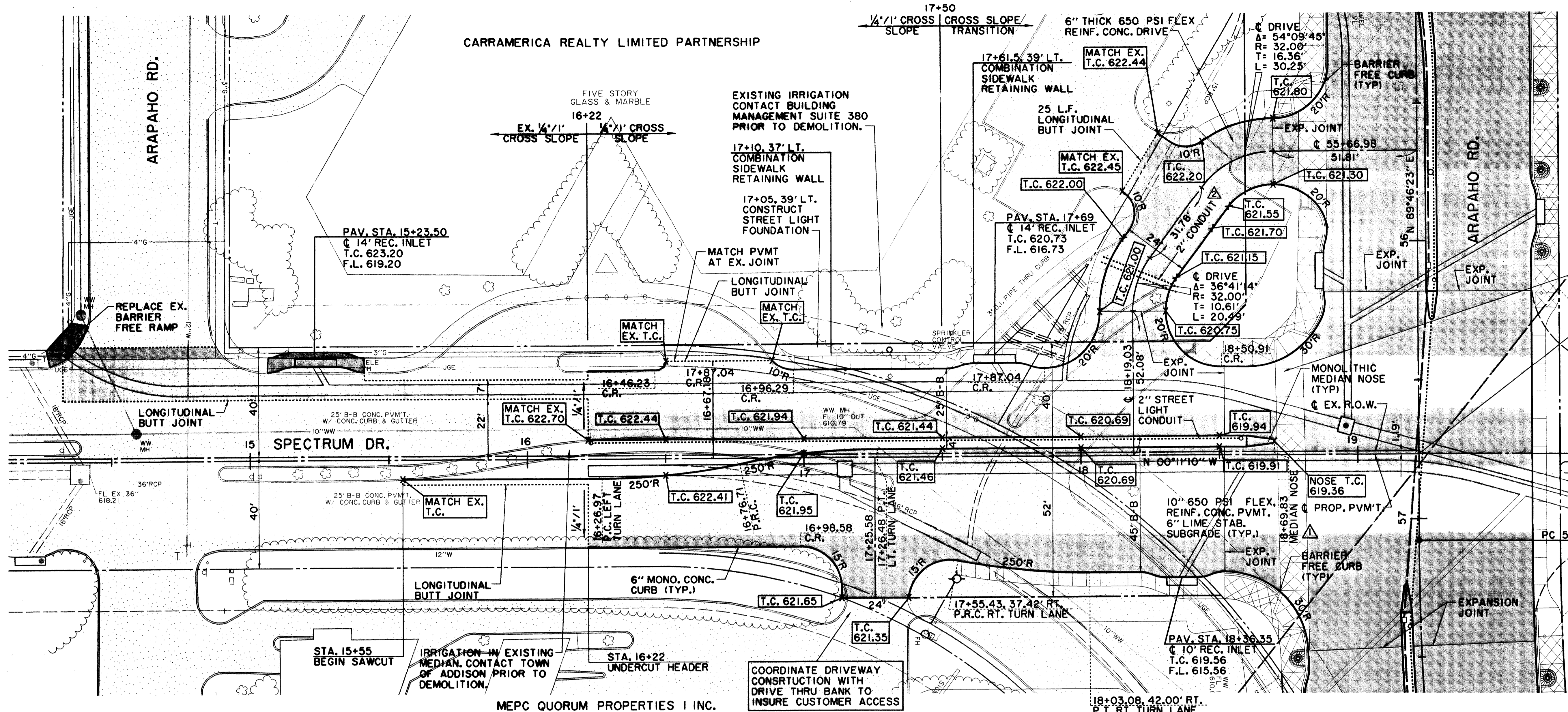
630 "□" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 650.61

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



REVISED 1/16/98

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>v</sub> 1"=20' V <sub>v</sub> 1"=6'	OCT 97	1772-01	P-11



SEE STREETScape PLANS FOR SIDEWALK, LANDSCAPING, IRRIGATION, LIGHTING AND PAVEMENT ENHANCEMENT DETAILS.

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

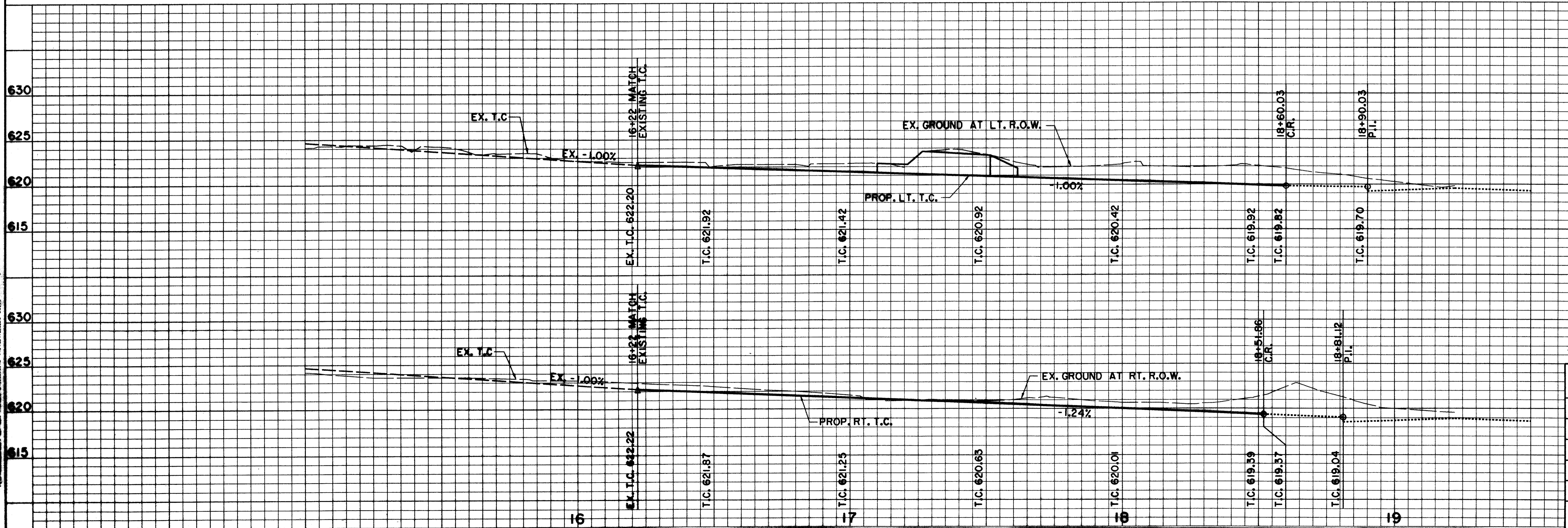
TOWN OF ADDISON

CROSSWALK TO BE CONSTRUCTED OF SPECIAL REINFORCED CONCRETE. SEE STREETScape LAYOUT PLANS FOR DETAILS.

STA. 19+22.03 SPECTRUM DR. = STA. 56+76.73 ARAPAHO RD.

LEGEND

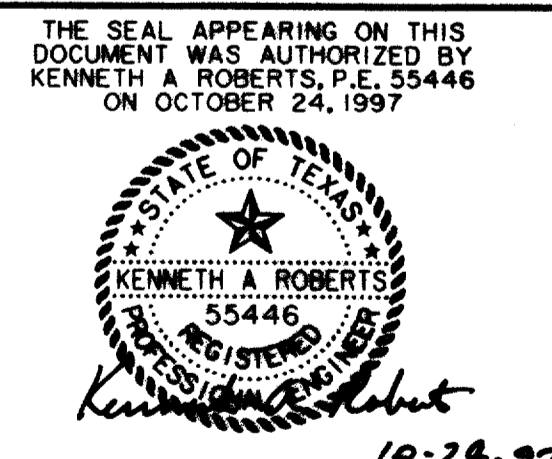
ELECTRIC — OH —	WATER — W —
○ LIGHT POLE	○ FIRE HYDRANT
□ POWER POLE	WM METER
— GUY WIRE	T WATER VALVE
TELEPHONE — T —	MISC.
○ TELEPHONE MANHOLE	48" RCP R.C.P. REMOVAL
○ TELEPHONE PEDESTAL	— CHAIN LINK FENCE
TS TELEPHONE SIGN	— WOOD FENCE
GM GAS METER	— EXISTING ASPHALT
GS GAS SIGN	— EXISTING DIRT OR GRAVEL
LAND USE	— EX. CONCRETE
R-R RAILROAD SIGN	○ TREE/TREE LINE
SIGN	— EXISTING CURB
I.R. FOUND IRON ROD	— PROP. CURB
TEMP BENCHMARK	— EX. PROPERTY LINE
WM WASTEWATER MANHOLE	— PROP. CENTERLINE
CO CLEANOUT	— PROP. R.O.W.
	— PROP. INLET
	PVMT TOP OF PAVEMENT
	T.C. TOP OF CURB
	C.R. CURB RETURN



**BENCHMARKS:**

USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND, ELEV. 650.61

□ ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD, ELEV. 630.61



RECORD DOCUMENTS 6/9/2000

REVISED 1/18/98

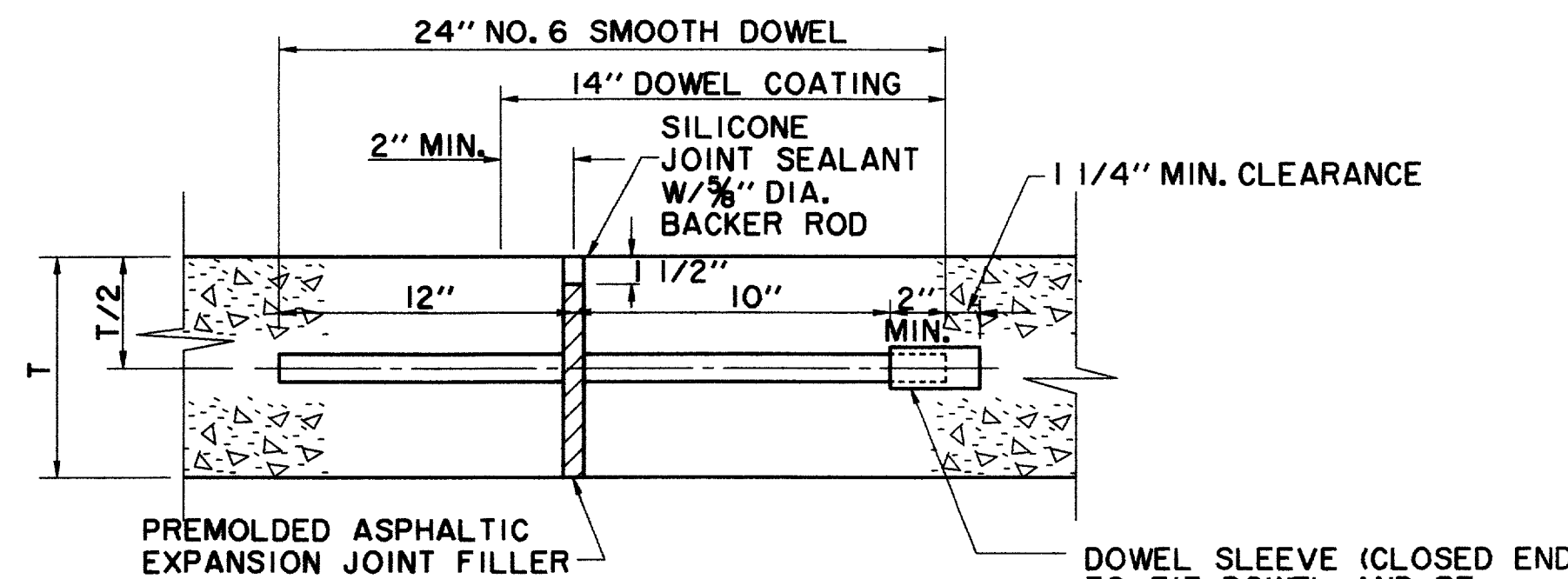
<b>PAVING PLAN &amp; PROFILE</b>				
SPECTRUM DR. STA. 15+55 TO STA. 19+22.03				
<b>ARAPAHO ROAD</b>				
ADDISON ROAD TO DALLAS NORTH TOLLWAY				
<b>TOWN OF ADDISON, TEXAS</b>				
<small>Hutt-Zollars, Inc., Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Austin</small>				
DESIGN	DRAWN	APPR.	SCALE	DATE
HZI	HZI	KAR	Ht 1"=20' Vt 1"=6'	OCT 97
PROJECT NO.	NO.			
1772-01	P-12			

ALL DIMENSIONS UNLESS OTHERWISE SHOWN ARE IN FEET AND DECIMALS THEREOF.  
 ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE ROAD.  
 THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997.  
 DATE: 10-24-97

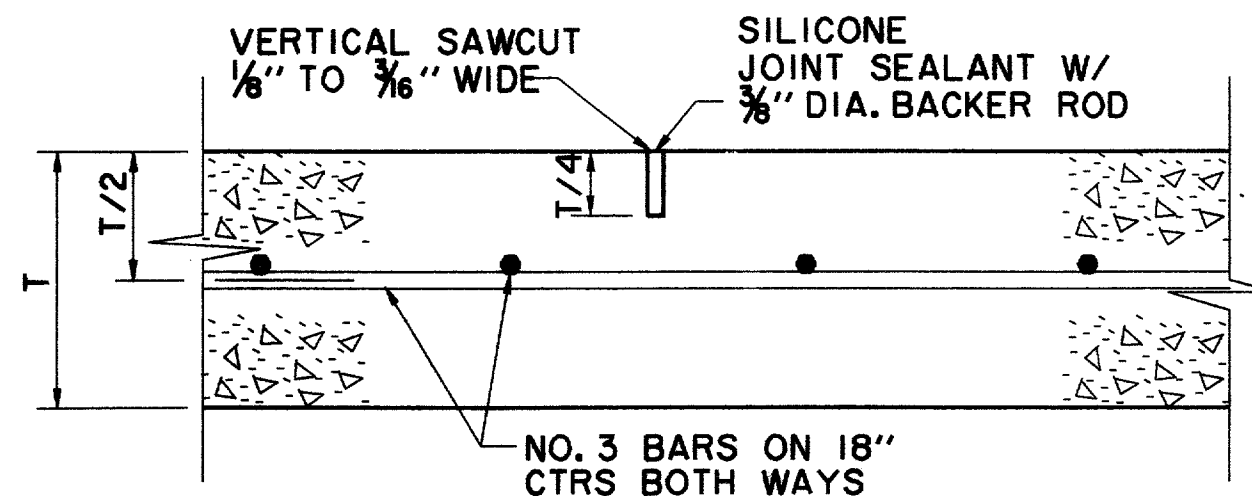


**NOTES-PAVING AND GRADING**

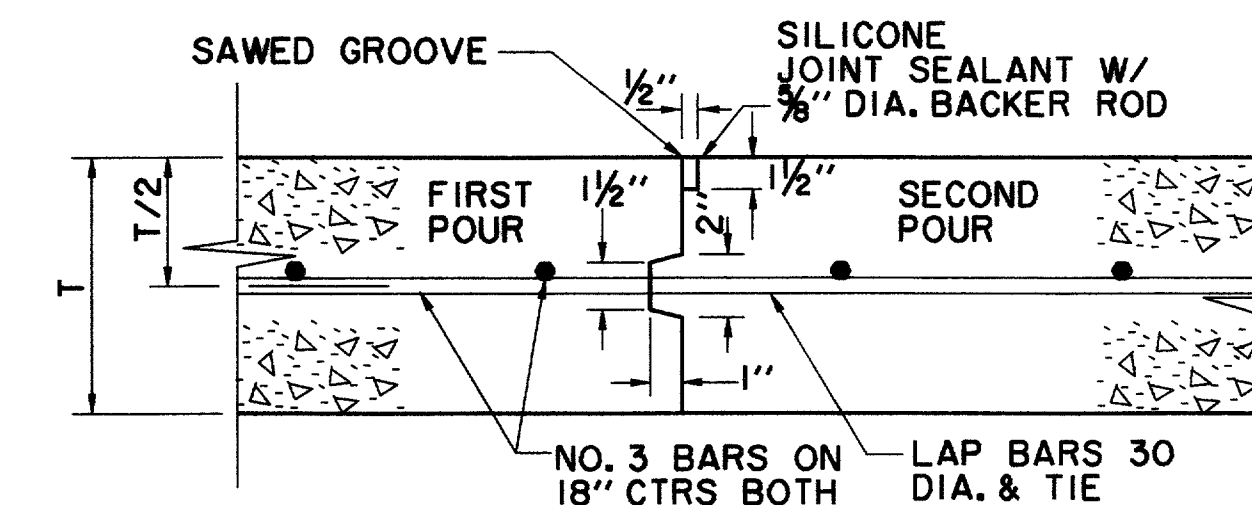
- UNLESS SPECIFICALLY STATED OTHERWISE IN PLANS OR CONTRACT DOCUMENTS, THE CONTROLLING SPECIFICATIONS FOR ALL WORK WITHIN PUBLIC RIGHTS-OF-WAY AND EASEMENTS SHALL BE THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECOND EDITION 1987, AS AMENDED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (THE "STANDARD SPECIFICATIONS"). COPIES OF THE STANDARD SPECIFICATIONS MAY BE PURCHASED BY MAIL OR OVER THE COUNTER FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, 616 SIX FLAGS DRIVE, P.O. BOX DRAWER CCG, ARLINGTON, TEXAS 76005-5888, PHONE METRO 817/640-3300. BULK DISCOUNTS ARE AVAILABLE. THIS DOCUMENT IS COPYRIGHTED.
- ROUGH GRADING SHALL BE ACCOMPLISHED TO WITHIN +/- 0.10 FEET OF PLAN ELEVATION.
- ALL TRAFFIC CONTROL NECESSARY FOR THE WORK SHALL BE PROVIDED BY THE CONTRACTOR. ALL BARRICADES, WARNING SIGNS, LIGHTS, DEVICES, ETC. FOR THE GUIDANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS MUST CONFORM TO THE INSTALLATIONS SHOWN IN THE LATEST ISSUE OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, TEXAS DEPARTMENT OF TRANSPORTATION.
- ALL FILL SHALL BE PLACED IN MAXIMUM 8-INCH LIFTS COMPACTED TO 95% OF STANDARD PROCTOR DENSITY BETWEEN 0% AND +3% OF OPTIMUM MOISTURE CONTENT.
- ALL TREES, STUMPS, BRUSH, GRASSES AND SURFACE ORGANICS WITHIN PROPOSED RIGHT-OF-WAY ARE TO BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE. TREE REMOVAL PERMITS, IF REQUIRED, WILL BE OBTAINED BY THE OWNER.
- EXISTING UTILITY POLES, IF ANY, WILL BE REMOVED OR RELOCATED BY THE UTILITY COMPANIES THROUGH COORDINATION BY THE OWNER. CONTRACTOR SHALL BRING TO THE OWNER'S ATTENTION ANY FACILITIES THAT APPEAR TO BE IN CONFLICT SO THAT THE OWNER HAS SUFFICIENT TIME TO ACCOMPLISH THE NECESSARY RELOCATIONS.
- WHERE DEEP VERTICAL EXCAVATIONS (IN EXCESS OF 3 FEET) ARE INDICATED, CUTS SHALL BE LAID BACK AT A STABLE SLOPE (ON OWNER'S PROPERTY) UNTIL WALLS ARE CONSTRUCTED. BACKFILL MATERIAL SHALL BE STOCKPILED ON-SITE AT THE DIRECTION OF THE OWNER.
- ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORT.
- THE USE OF WOOD FORMS FOR PAVEMENT CONSTRUCTION WILL BE PERMITTED.
- DUMMY JOINTS SHALL BE SAWS IN THE PAVEMENT IN THIS PROJECT. DUMMY JOINTS WILL BE SPACED APPROXIMATELY 12 FEET ON CENTERS UNLESS DIRECTED OTHERWISE BY THE TOWN. SPACING VARIATIONS SHALL BE MADE AT BLOCKOUTS, CONSTRUCTION JOINTS, AND STREET INTERSECTIONS TO LINE UP WITH EXISTING PAVING JOINTS AS DIRECTED BY THE TOWN. THE SPACING BETWEEN ANY JOINT SHALL NOT BE LESS THAN 10 FEET NOR MORE THAN 15 FEET. ALL DUMMY JOINTS SHALL BE SAWS NOT LATER THAN 12 HOURS AFTER THE PLACEMENT OF THE PAVEMENT.
- BARRIER-FREE RAMPS SHALL BE BUILT WITH THIS PROJECT. LOCATIONS MAY BE ADJUSTED AS DIRECTED BY THE TOWN TO CLEAR OBSTRUCTIONS.
- VARIABLE HEIGHT CURB AT INTERSECTIONS AND SLOPING CURBS AT DRIVES SHALL BE BUILT TO MATCH FUTURE BARRIER-FREE RAMPS PER PLANS. NO SEPARATE PAY ITEMS ARE PROVIDED.
- TWO-WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES ON PUBLIC STREETS ADJACENT TO THIS PROJECT UNLESS SPECIFIED OTHERWISE IN THE PLANS AND SPECIFICATIONS. THE TRAVELWAY WIDTH SHALL NOT BE LESS THAN 10 FEET.
- SEE TYPICAL SECTIONS SHEET FOR ADDITIONAL DETAILS AND NOTES.
- ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT.
- CURBS SHALL MEET THE SAME COMPRESSIVE STRENGTH AS SPECIFIED FOR THE CONCRETE PAVEMENT.
- BAR LAPS SHALL BE 30 DIAMETERS.



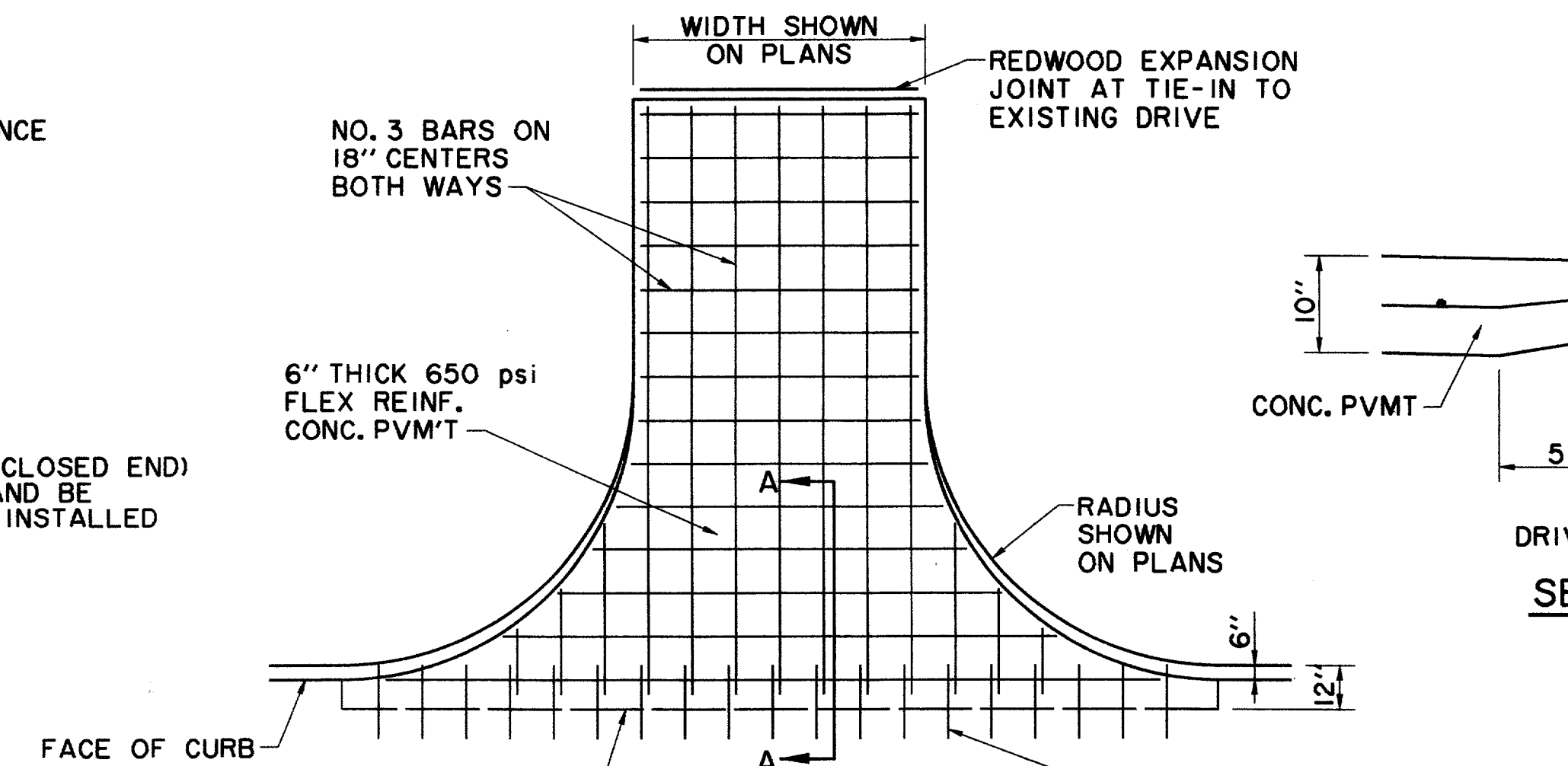
**TRANSVERSE EXPANSION JOINT**  
N.T.S.  
(SPACED 600 FT. MAXIMUM, LOCATE AT INTERSECTIONS)  
NOTE:  
DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.



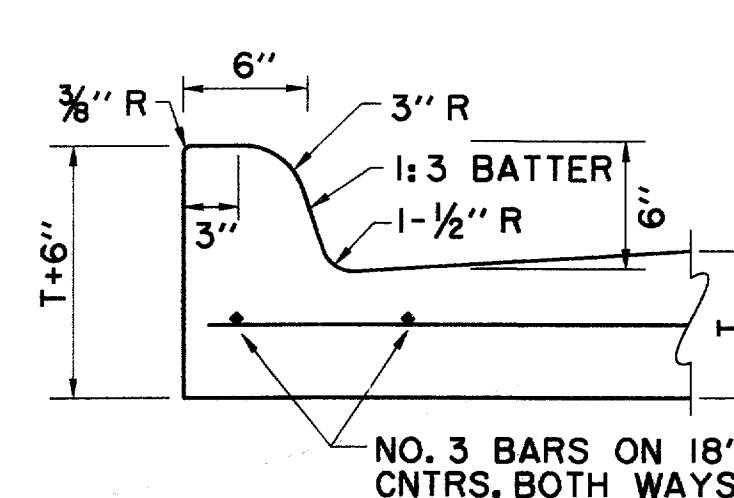
**SAWED DUMMY JOINT**  
N.T.S.



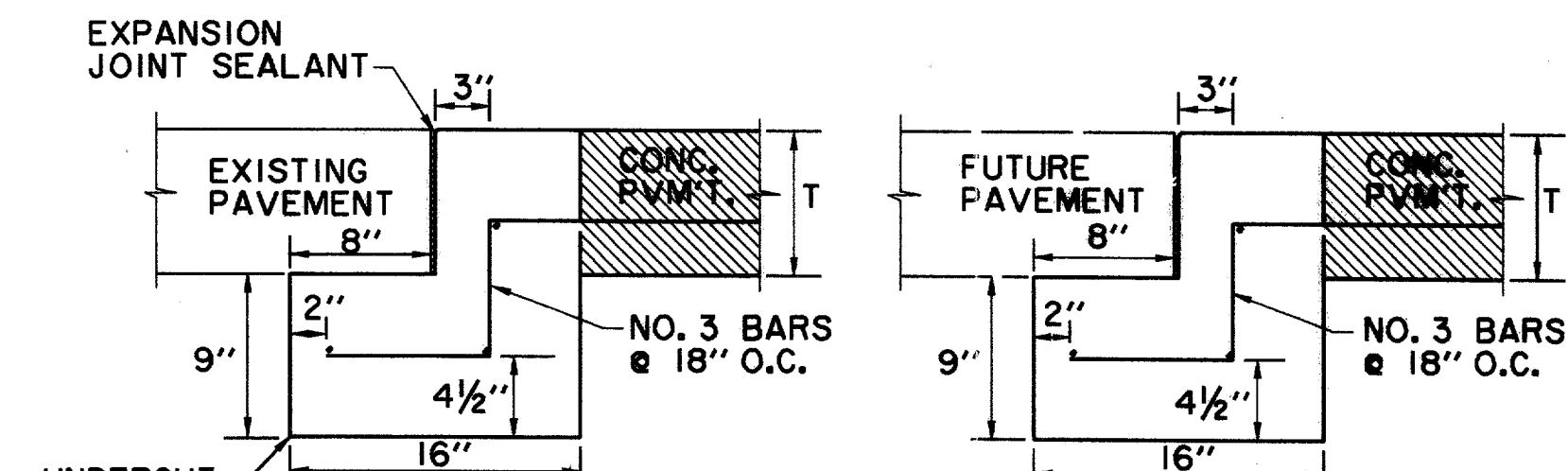
**CONSTRUCTION JOINT**  
N.T.S.



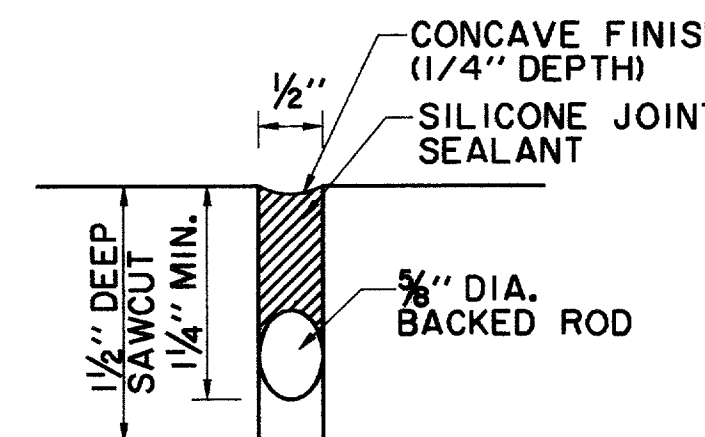
**DRIVE RETURN TO STREET**  
N.T.S.



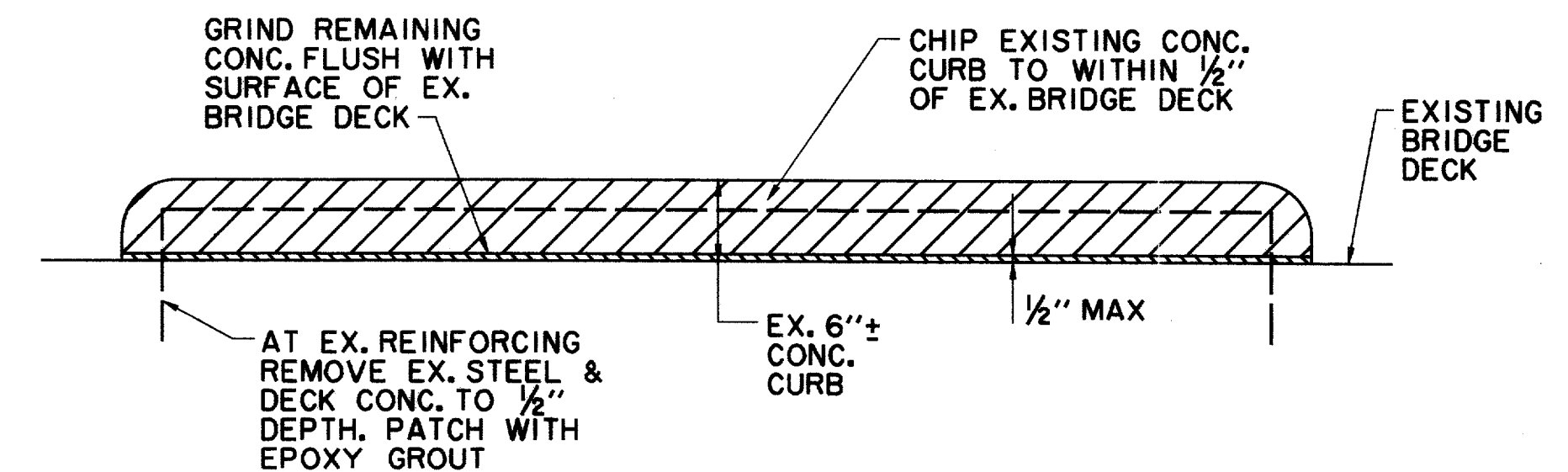
**INTEGRAL CURB AND GUTTER**  
N.T.S.



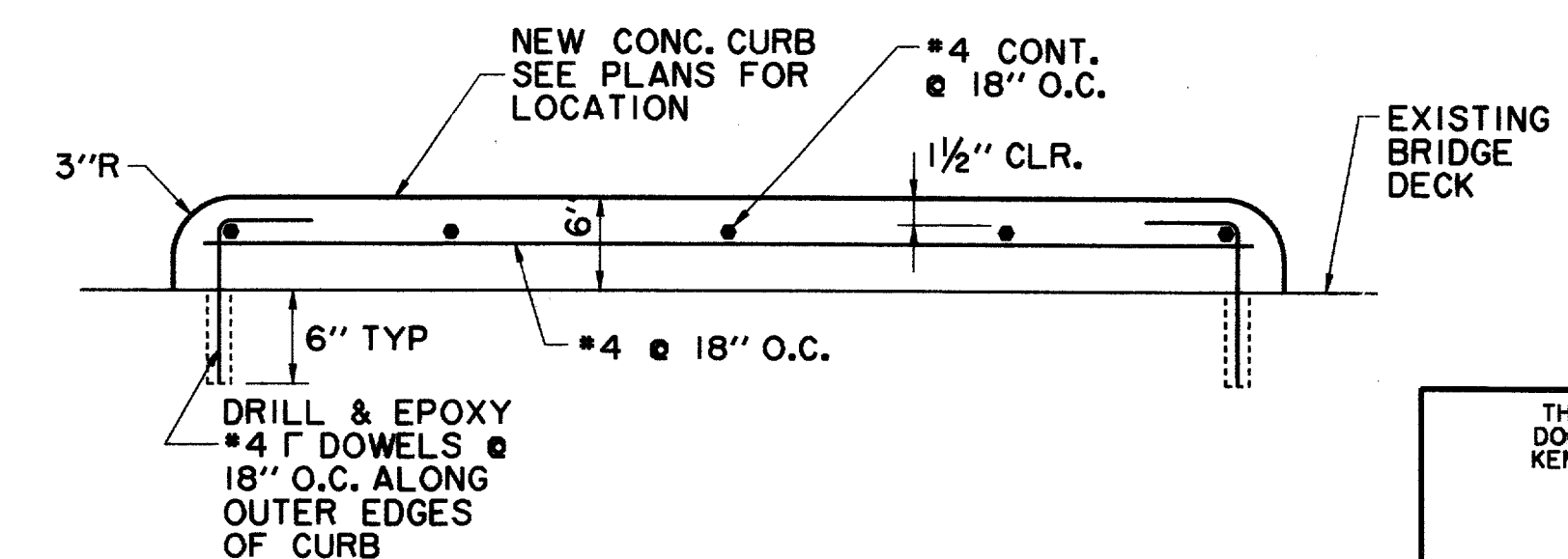
**STREET HEADER**  
N.T.S.  
PAVEMENT BARS TO BE BENT DOWN INTO HEADER. HEADER AND PAVEMENT TO BE MONOLITHIC.



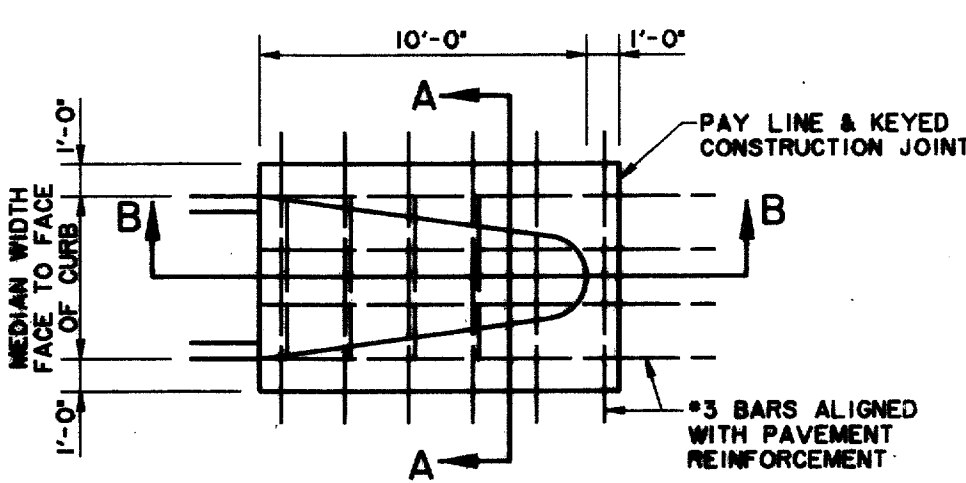
**TYPICAL JOINT DETAIL**  
N.T.S.



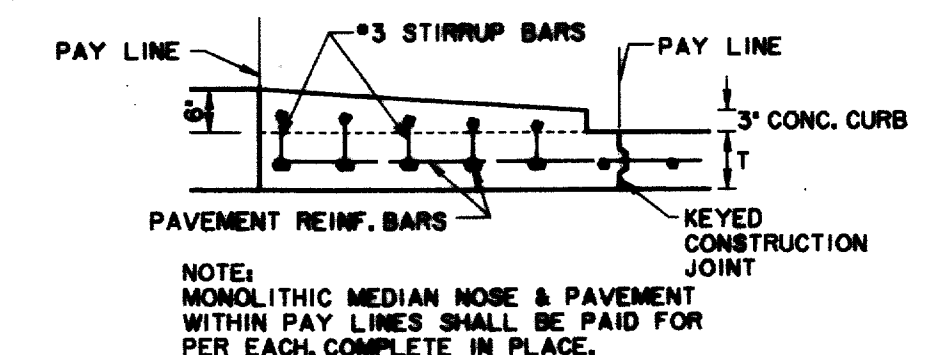
**CONCRETE ISLAND REMOVAL DETAIL**  
N.T.S.



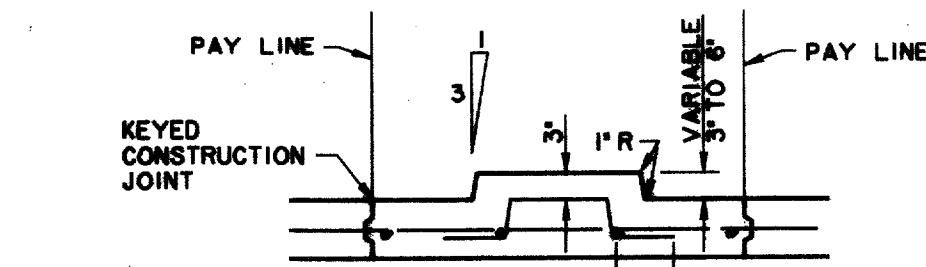
**NEW CONCRETE ISLAND DETAIL**  
N.T.S.



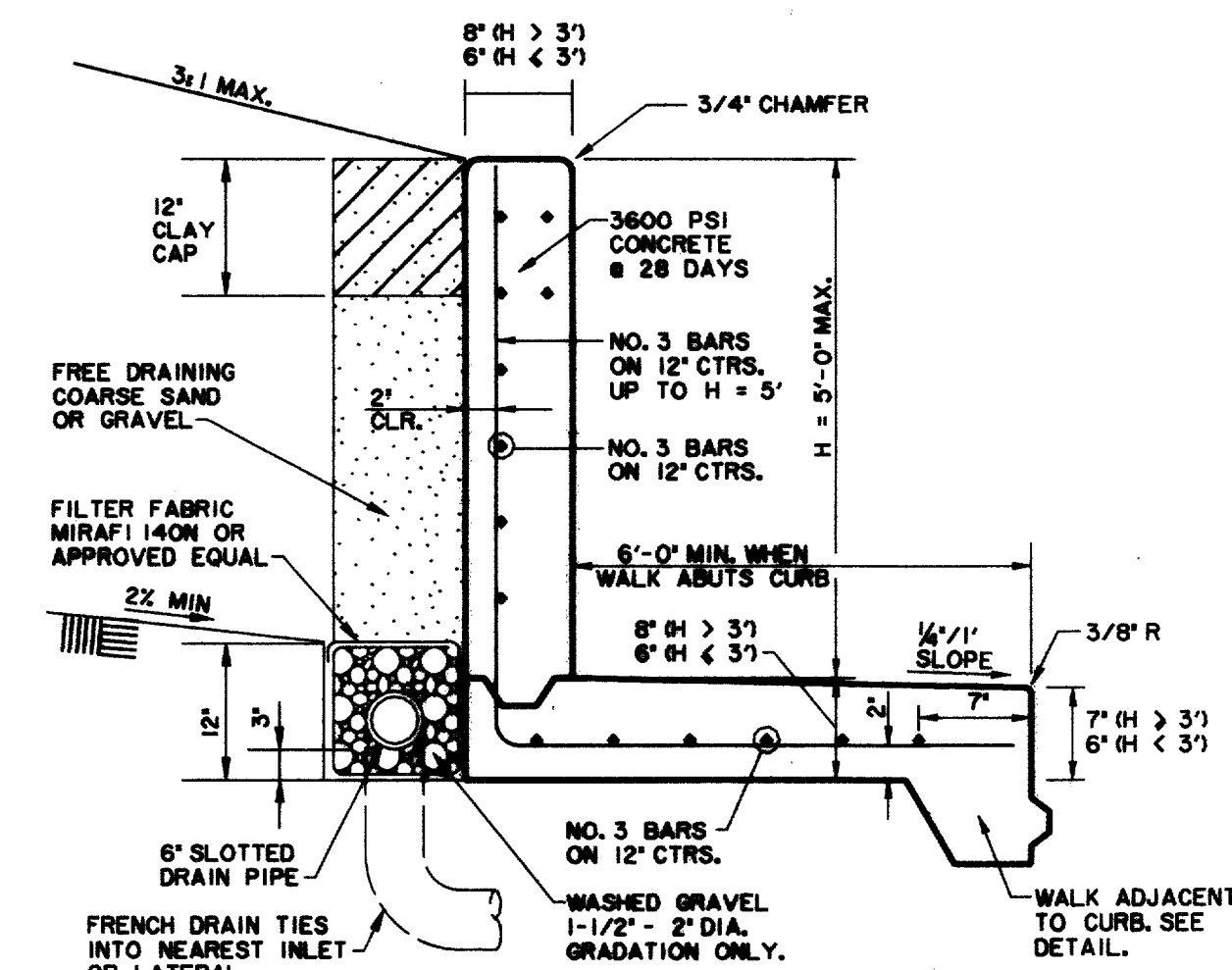
**MONOLITHIC MEDIAN NOSE**



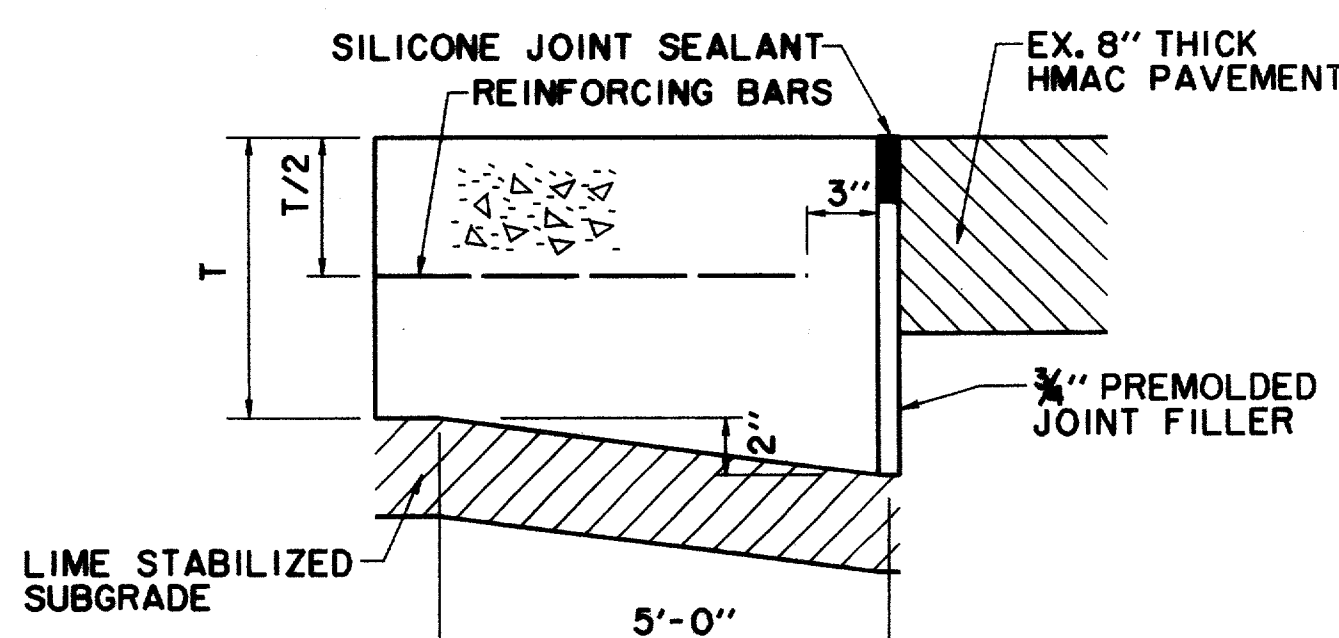
**SECTION B-B**



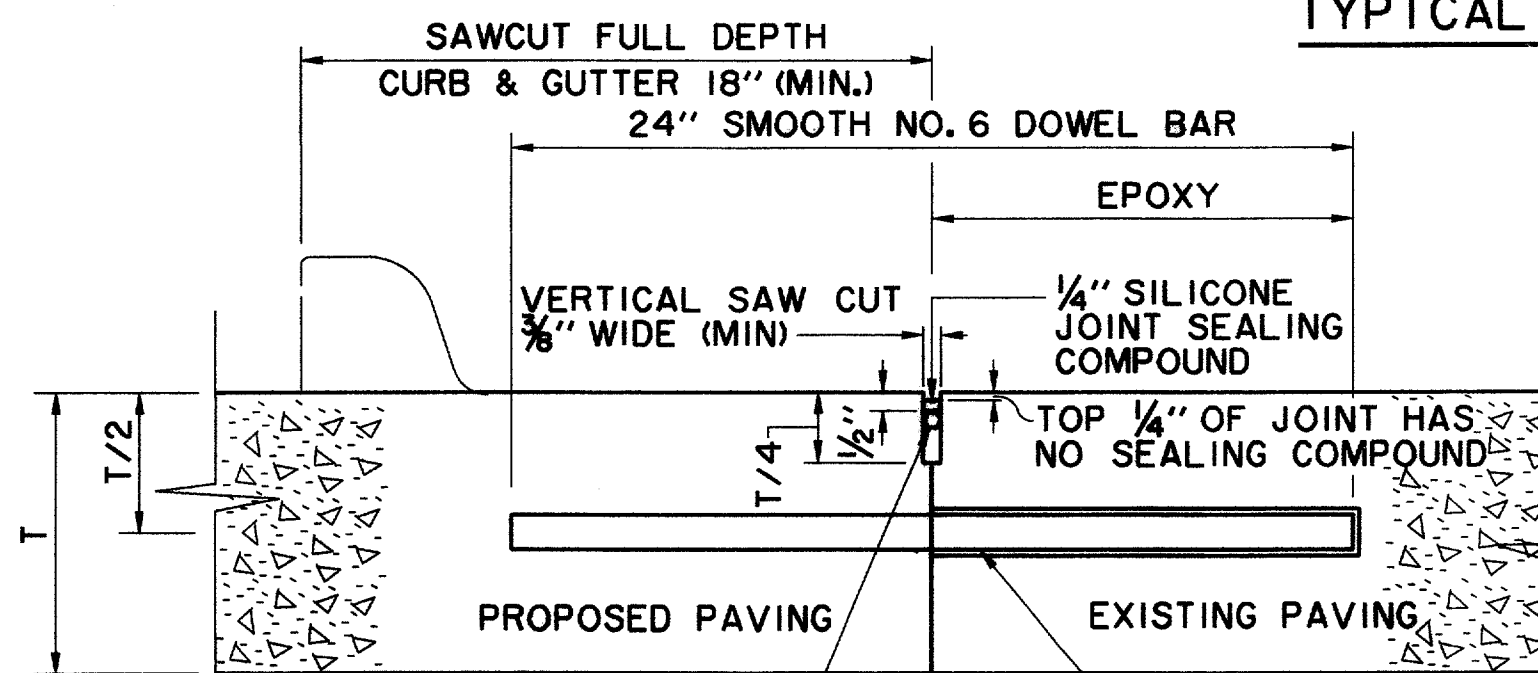
**SECTION A-A**



**COMBINATION CANTILEVER RETAINING WALL & SIDEWALK DETAIL**

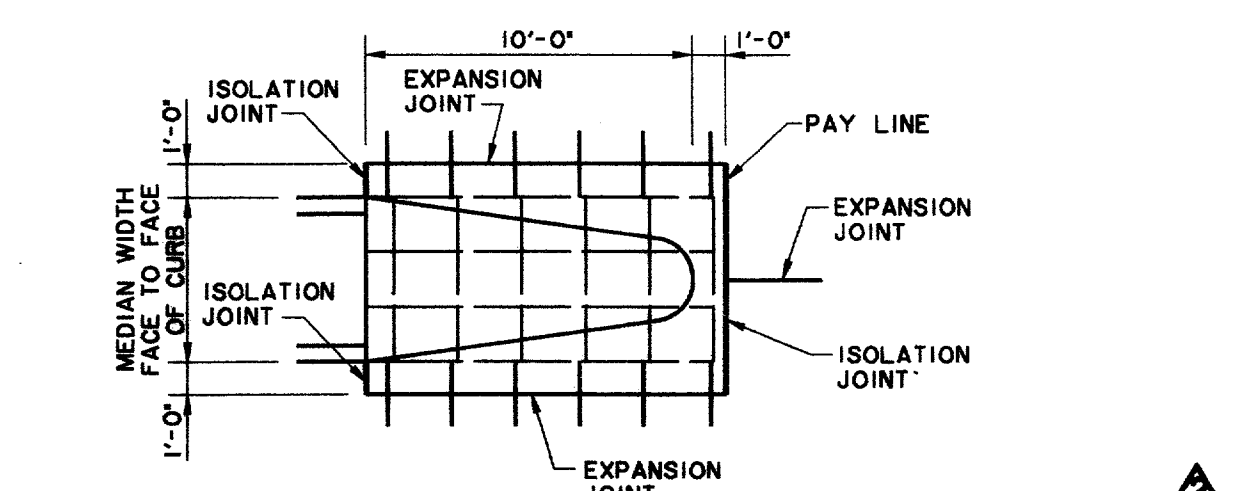


**THICKENED EDGE JOINT AT ADDISON ROAD**  
N.T.S.

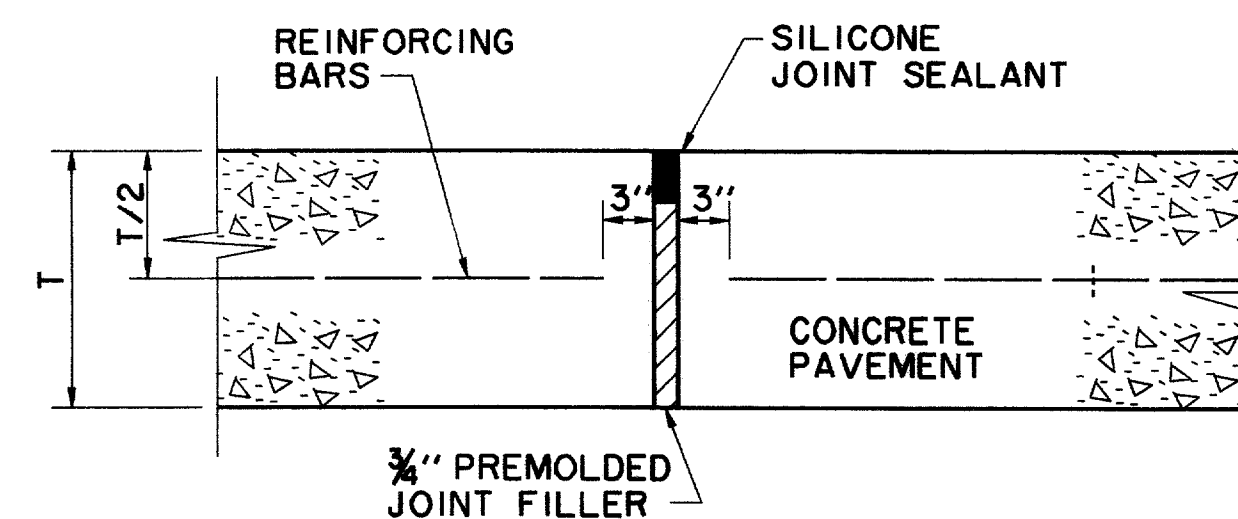


DOWEL BARS SHALL BE DRILLED INTO EX. PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG. DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE NOT ACCEPTABLE.

**LONGITUDINAL BUTT JOINT**  
N.T.S.



**MONOLITHIC MEDIAN NOSES AT QUORUM DR.**



**ISOLATION JOINT**  
N.T.S.

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



- ADDENDUM #4, 12/19/97
- ADDENDUM #2, 11/18/97

**PAVING DETAILS**

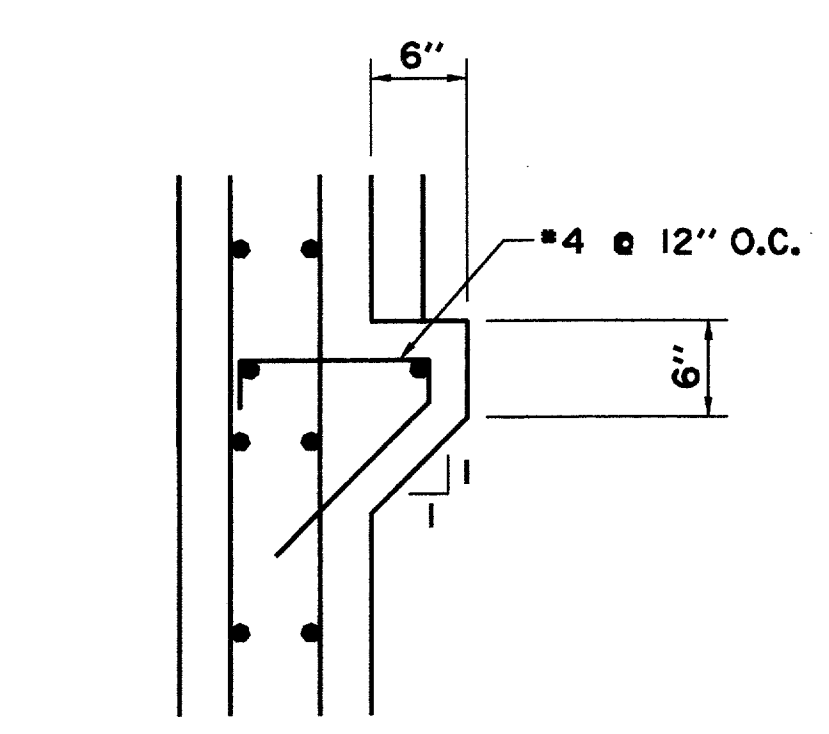
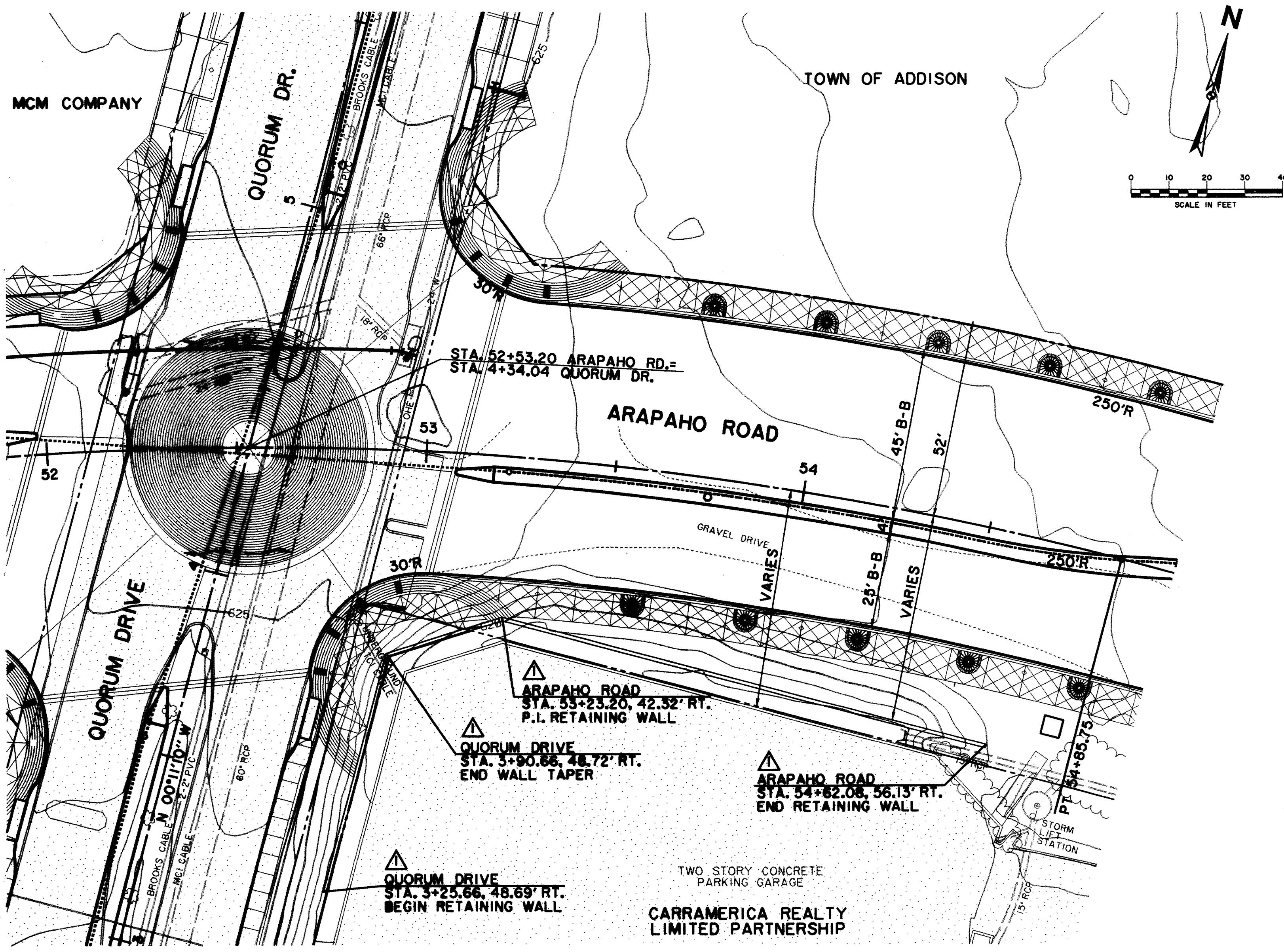
**ARAPAHO ROAD**

ADDISON ROAD TO DALLAS NORTH TOLLWAY

TOWN OF ADDISON, TEXAS

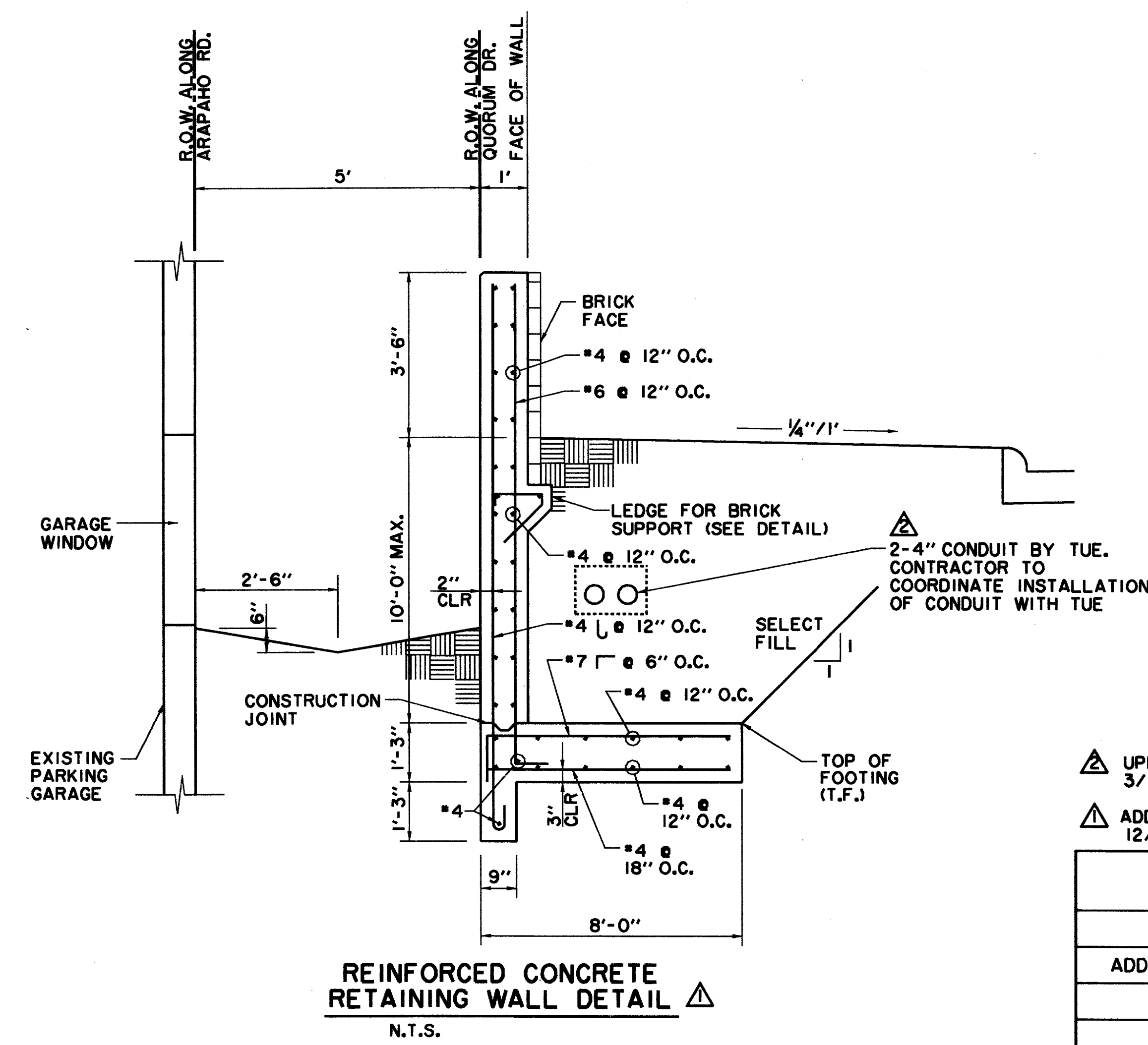
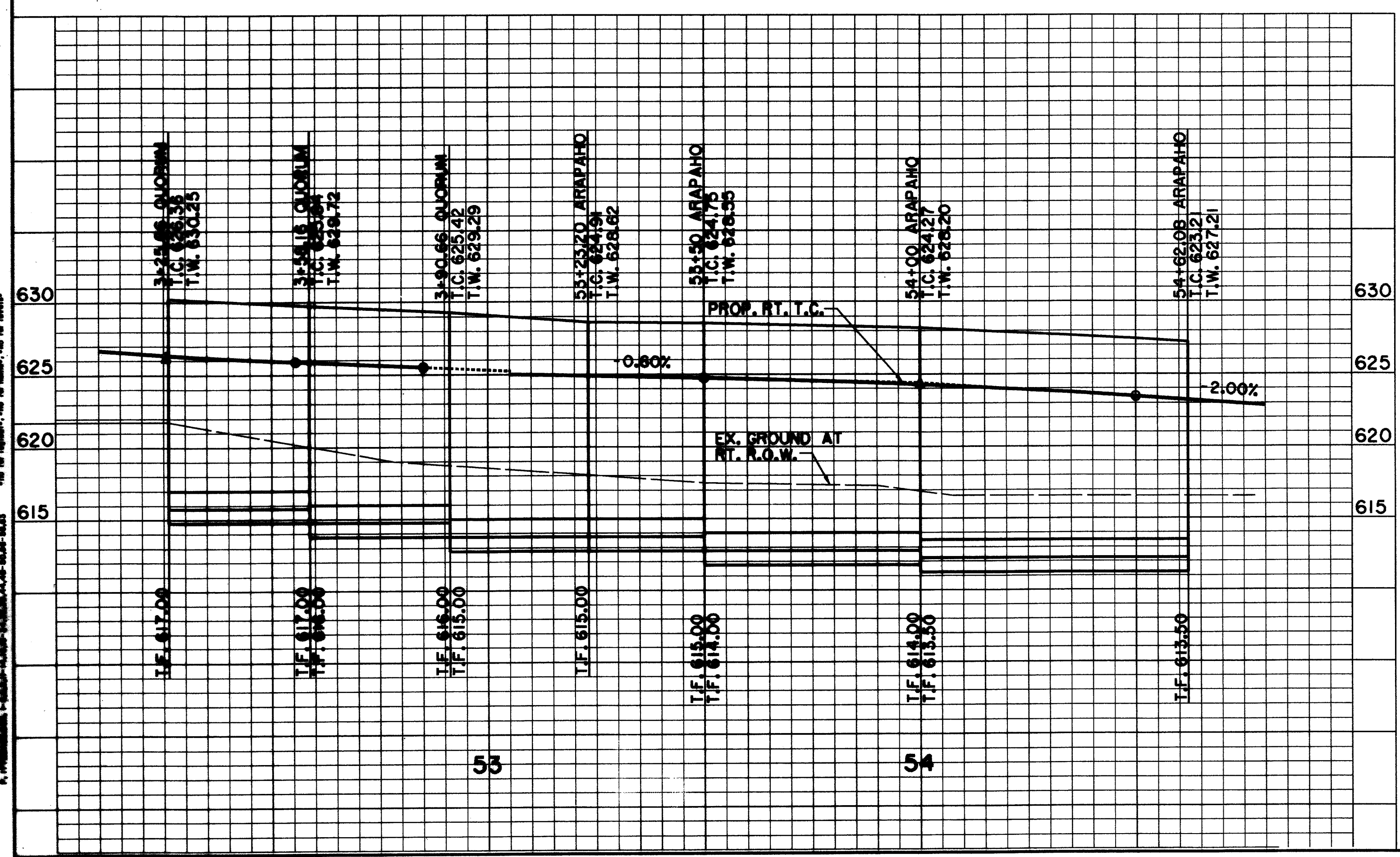
Huitt-Zollars, Inc., Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Tucson

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	N.T.S.	OCT 97	1772-01	P-13



**BRICK LEDGE DETAIL**  
SCALE: 1" = 1'-0"

- GENERAL NOTES:**
1. SELECT FILL MATERIAL SHALL CONSIST OF INORGANIC NONEXPANSIVE SOIL OR ROCK WITH A PLASTICITY INDEX BETWEEN 4 AND 12. THE MATERIAL SHALL BE FREE OF CLAY LUMPS, ROCKS IN EXCESS OF 4 INCHES IN DIAMETER, AND OTHER DELETERIOUS MATERIAL.
  2. SELECT MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8 INCHES IN THICKNESS AND COMPACTED TO BETWEEN 95% AND 100% OF STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT (-0% + 3%).
  3. THE COMPACTION OF BACKFILL WITHIN 5'-0" OF WALL SHALL BE ACHIEVED USING HAND COMPACTION EQUIPMENT.
  4. REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60.
  5. DETAIL REINFORCING BARS AND PROVIDE BAR SUPPORTS AND SPACES IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL.
  6. REINFORCING BARS SHALL BE SUPPORTED, SPACED AND ACCURATELY SECURED IN PLACE BY BOLSTERS, SPACERS OR CHAIRS IN ACCORDANCE WITH SPECIFICATIONS FOR PLACING REINFORCEMENTS OF THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
  7. ALL REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 36 BAR DIAMETERS AT ALL CORNERS AND AT ALL SPLICE POINTS UNLESS OTHERWISE NOTED.
  8. FIVE TO SEVEN PERCENT AIR ENTRAINMENT SHALL BE ADDED TO CONCRETE USED FOR STRUCTURAL ELEMENTS EXPOSED TO WEATHER, UNLESS SPECIFIED OTHERWISE ON THE PLANS.
  9. CHAMFER ALL EXPOSED CORNERS 3/4" INCHES
  10. CONCRETE FOR ALL RETAINING WALLS AND JUNCTION STRUCTURES SHALL BE CLASS "C" WITH A MINIMUM COMPRESSIVE STRENGTH OF 3600 PSI AT 28 DAYS.
  11. WHERE INDICATED ON THE DRAWINGS, ROUGHENED SURFACES SHALL BE PROVIDED BY MEANS OF HEAVY RAKING OR GROOVING TO A FULL AMPLITUDE OF 1/4" INCH. ALL INTERFACING SURFACES MUST BE CLEAN AND FREE OF LAITANCE.
  12. ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPE SLEEVES, ETC., SHALL BE SURELY POSITIONED IN THE FORMS BEFORE PLACING CONCRETE.
  13. THE KEYWAY AND FOOTING SHALL BE POURED DIRECTLY AGAINST UNDISTURBED SOIL WITHIN 48 HOURS AFTER EXCAVATION.
  14. ALL EXPOSED SURFACES ON THE RETAINING WALL SHALL BE STAINED WITH A WATER REPELLANT (PIGMENTED) STAIN MANUFACTURED BY UNITED COATINGS, EAST 19011 CATALDO, GREENACRES, WA 99016 OR APPROVED EQUAL. COLOR SELECTION SHALL BE APPROVED BY THE OWNER PRIOR TO APPLICATION.



**REINFORCED CONCRETE RETAINING WALL DETAIL**  
N.T.S.

RECORD DOCUMENTS 6/9/2000

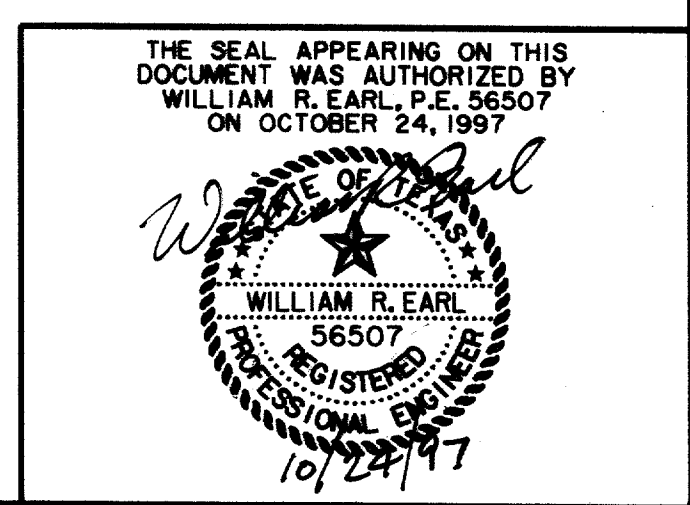
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

**BENCHMARKS:**

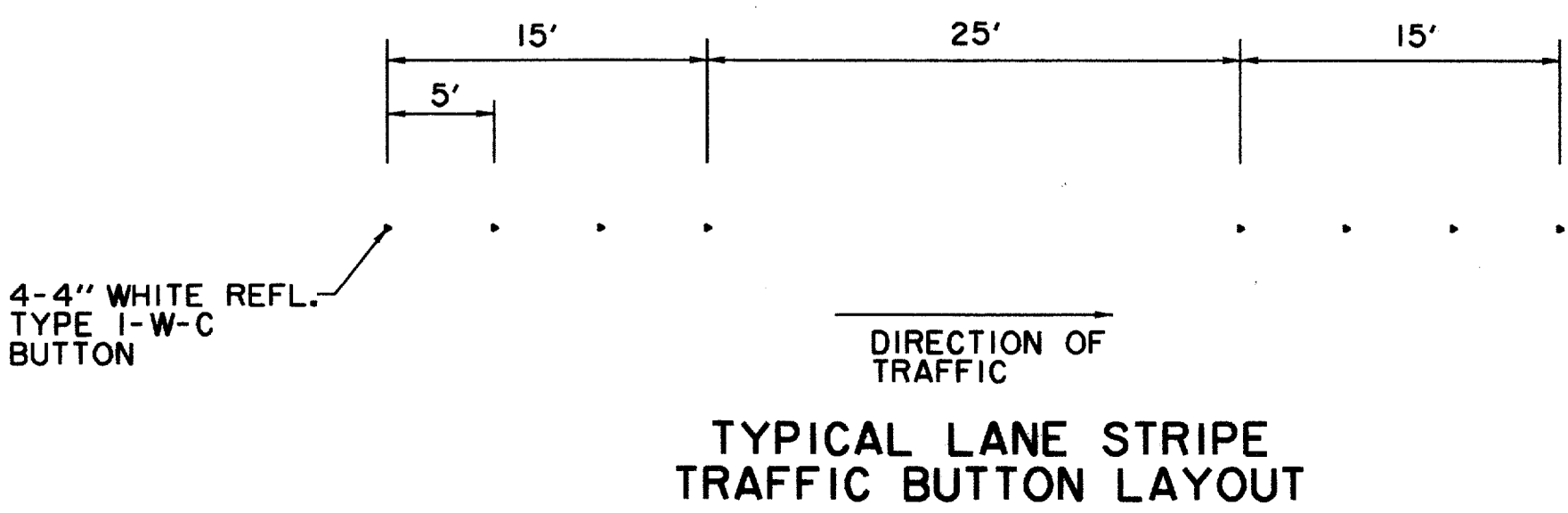
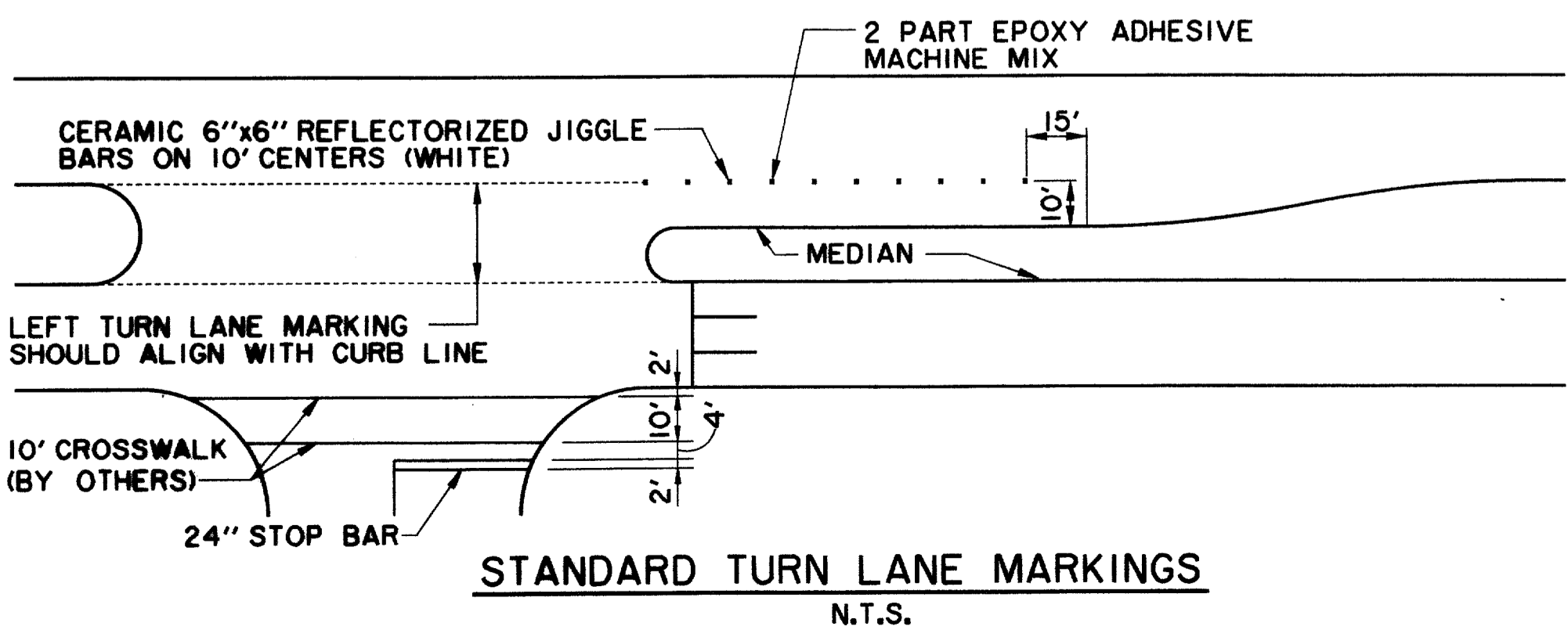
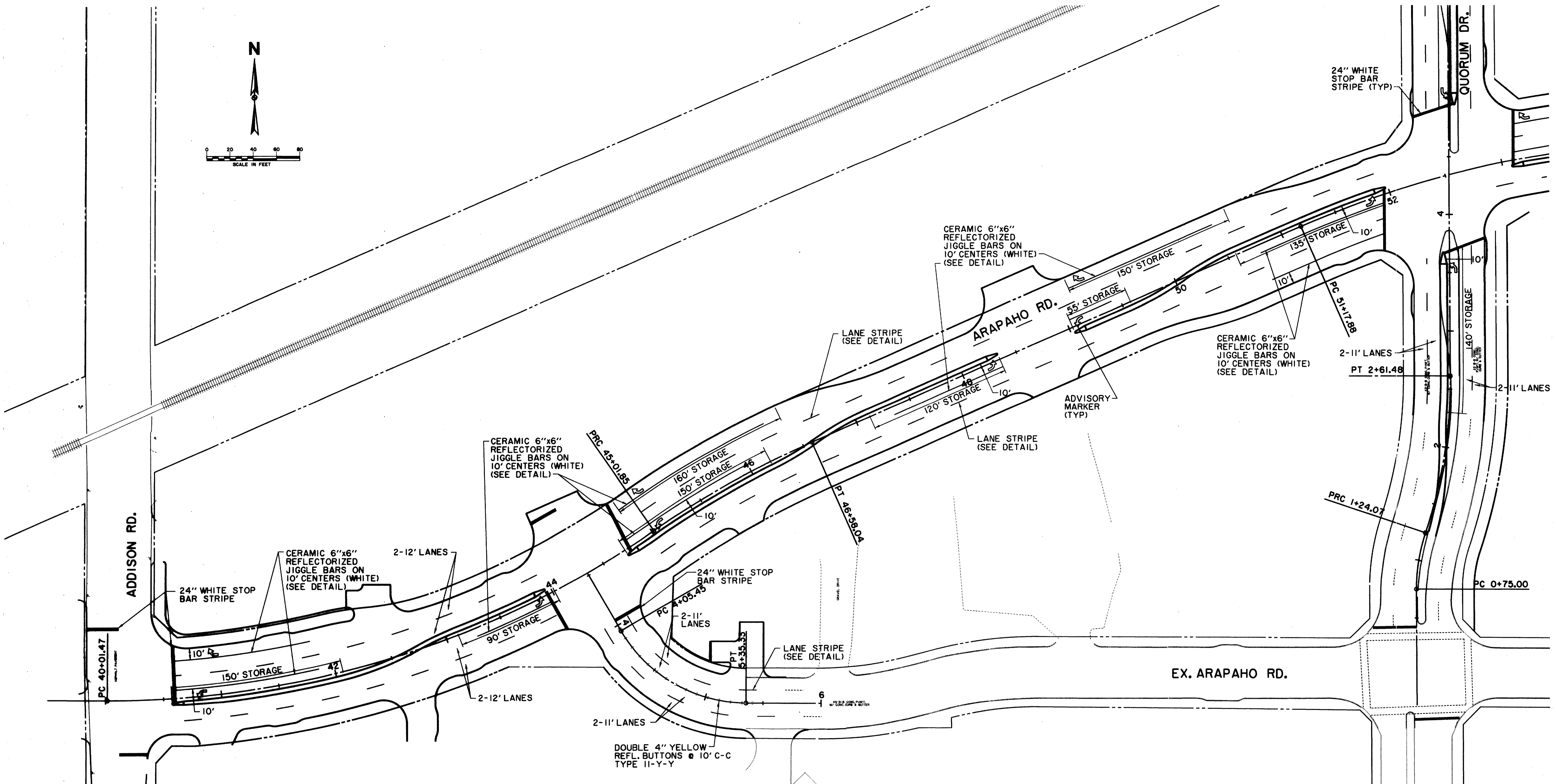
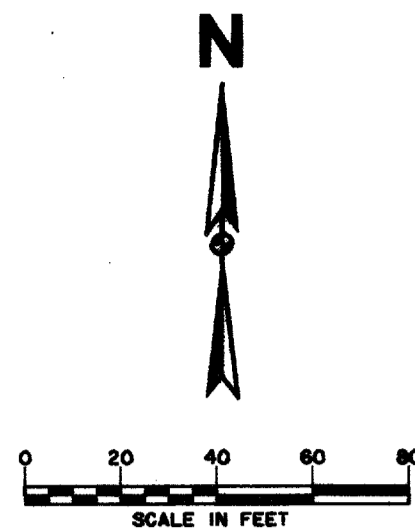
USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND, ELEV. 650.61

'I' ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD, ELEV. 630.61

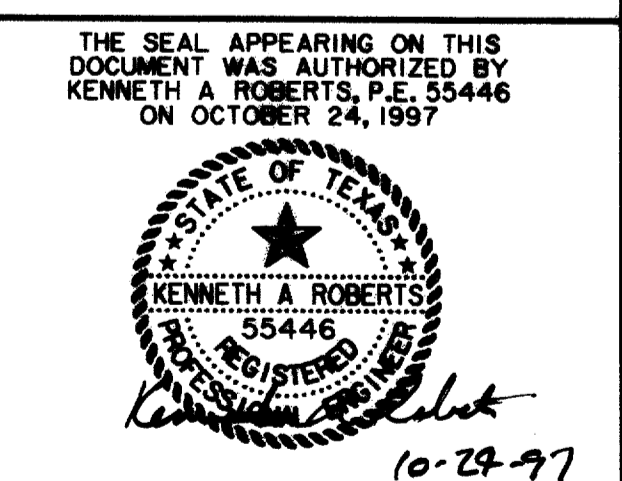
△ UPDATED 3/16/98  
△ ADDENDUM #4, 12/19/97



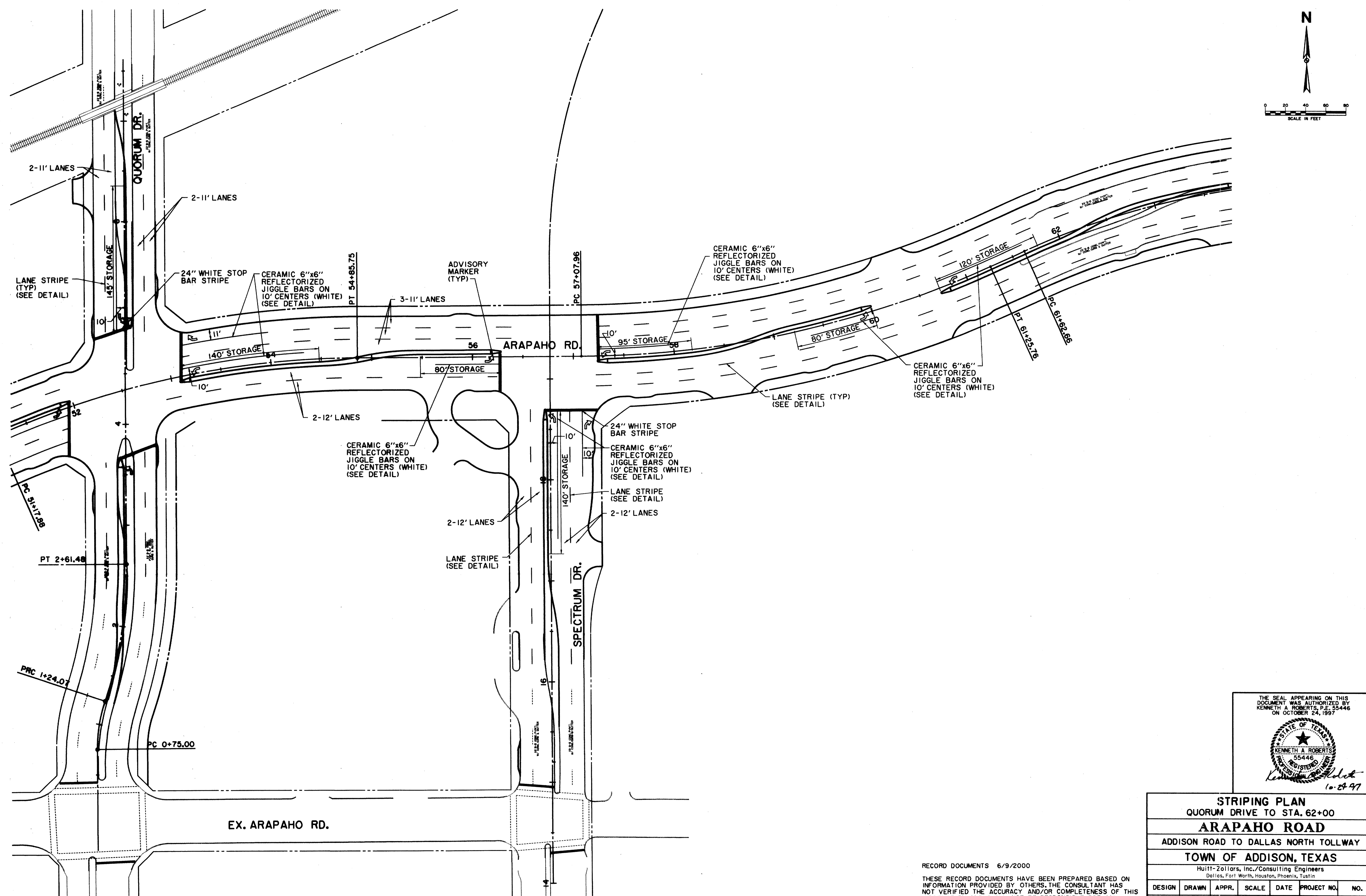
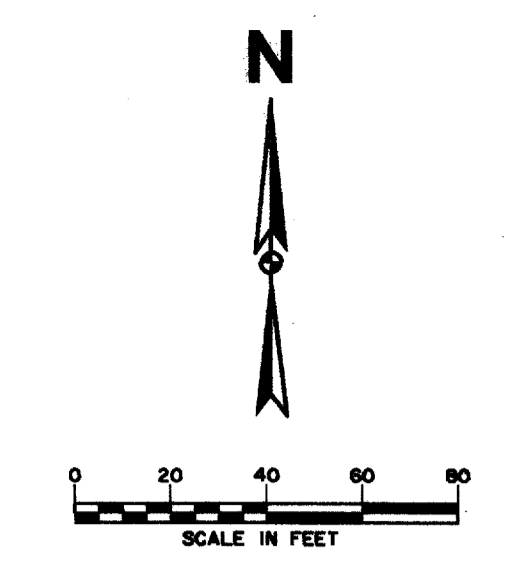
<b>RETAINING WALL PLAN, PROFILE &amp; DETAILS</b>						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huff-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tucson						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	WRE	H: 1"=20' V: 1"=6'	OCT 97	1772-01	P-15



RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



<b>STRIPING PLAN</b>						
ADDISON ROAD TO QUORUM DRIVE						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
<b>TOWN OF ADDISON, TEXAS</b>						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=40'	OCT 97	1772-01	P-16

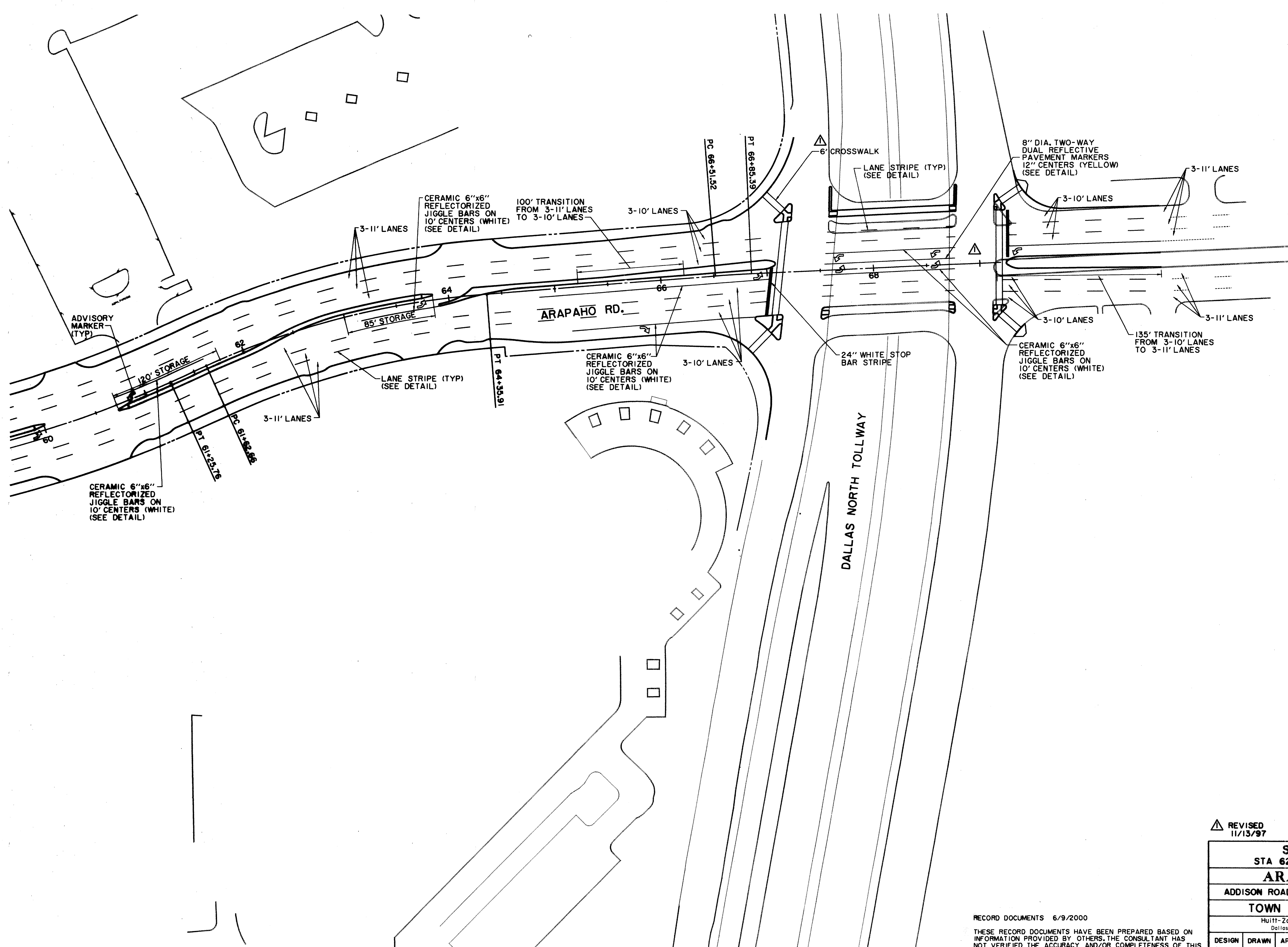
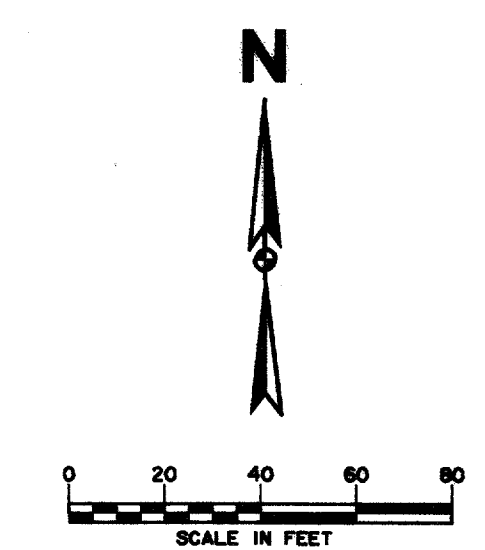


ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.  
 ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE ROAD.  
 ALL CORNER POINTS ARE TO BE SET AND MARKED.  
 ALL STRIPING TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.  
 ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY AVAILABLE.  
 ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.  
 ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE ROAD.  
 ALL CORNER POINTS ARE TO BE SET AND MARKED.  
 ALL STRIPING TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.  
 ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY AVAILABLE.  
 ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997.  
  
 Kenneth A. Roberts  
 10-24-97

STRIPING PLAN						
QUORUM DRIVE TO STA. 62+00						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Austin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=40'	OCT 97	1772-01	P-17

RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

*Kenneth A. Roberts*  
10-24-97

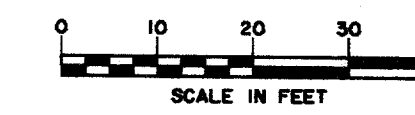
REVIS  
11/13/97

<b>STRIPING PLAN</b>						
STA 62+00 TO PROJECT END						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
<b>TOWN OF ADDISON, TEXAS</b>						
Hullitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=40'	OCT 97	1772-01	P-18

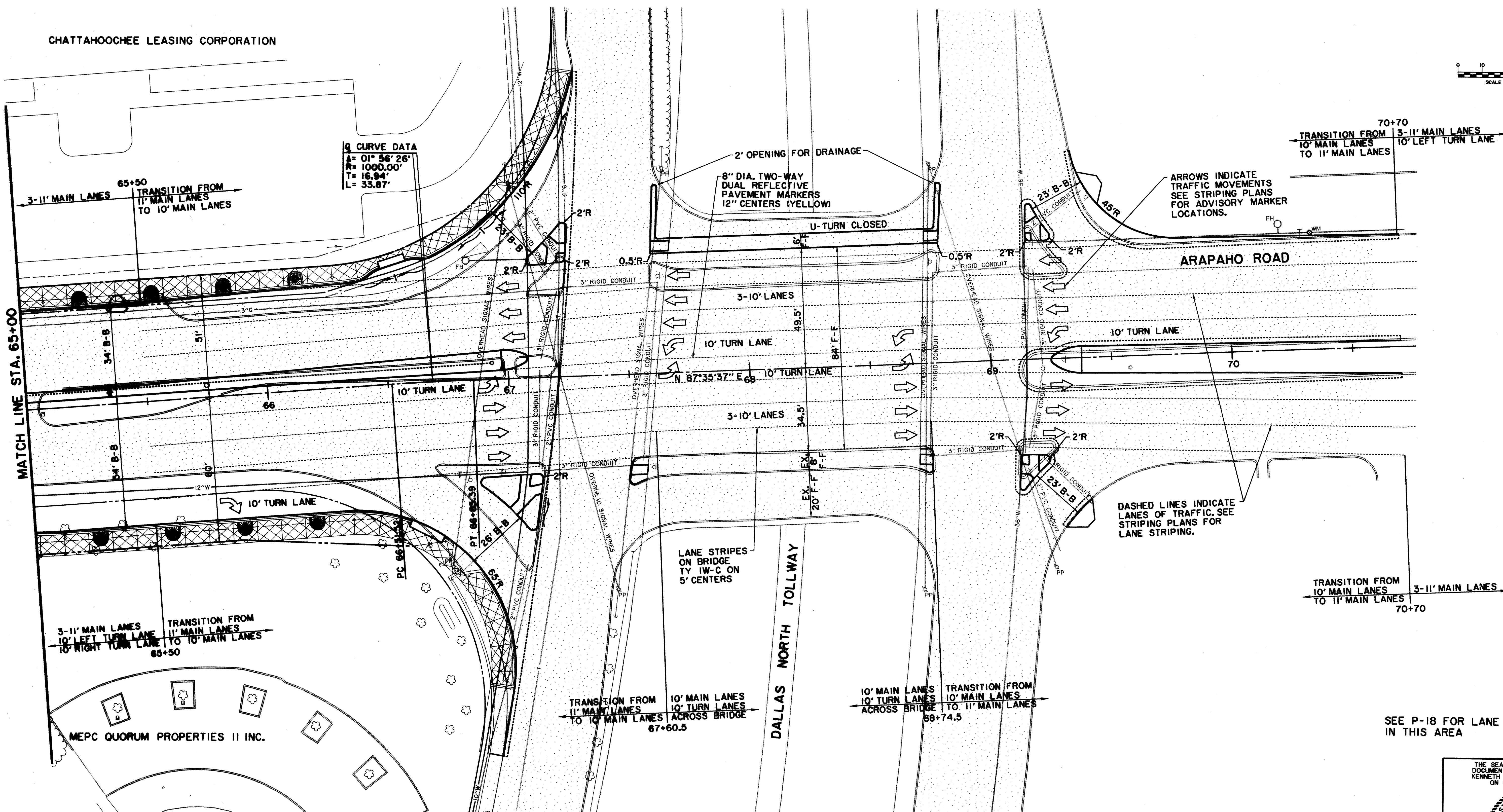
RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

CHATAHOOCHEE LEASING CORPORATION



**G CURVE DATA**  
 Δ = 01° 56' 26"  
 R = 1000.00'  
 T = 16.94'  
 L = 33.87'



MATCH LINE STA. 65+00

70+70  
 TRANSITION FROM 3-11' MAIN LANES TO 10' MAIN LANES  
 10' LEFT TURN LANE

ARROWS INDICATE TRAFFIC MOVEMENTS  
 SEE STRIPING PLANS FOR ADVISORY MARKER LOCATIONS.

ARAPAHO ROAD

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

10' TURN LANE

DASHED LINES INDICATE LANES OF TRAFFIC. SEE STRIPING PLANS FOR LANE STRIPING.

70+70  
 TRANSITION FROM 10' MAIN LANES TO 3-11' MAIN LANES  
 TO 11' MAIN LANES

LANE STRIPES ON BRIDGE  
 TY 1W-C ON 5' CENTERS

DALLAS NORTH TOLLWAY

67+60.5  
 TRANSITION FROM 11' MAIN LANES TO 10' MAIN LANES  
 10' TURN LANES ACROSS BRIDGE

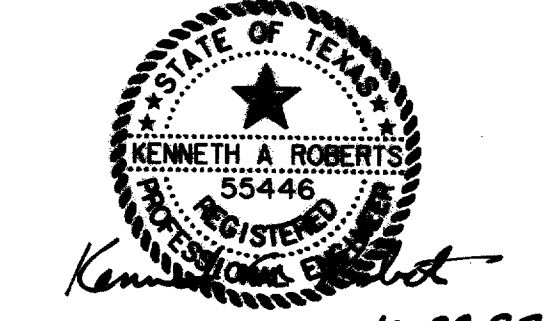
68+74.5  
 TRANSITION FROM 10' MAIN LANES TO 11' MAIN LANES  
 10' TURN LANES ACROSS BRIDGE

65+50  
 TRANSITION FROM 11' MAIN LANES TO 10' MAIN LANES  
 10' LEFT TURN LANE TO 10' MAIN LANES  
 10' RIGHT TURN LANE

MEPC QUORUM PROPERTIES II INC.

SEE P-18 FOR LANE STRIPING IN THIS AREA

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

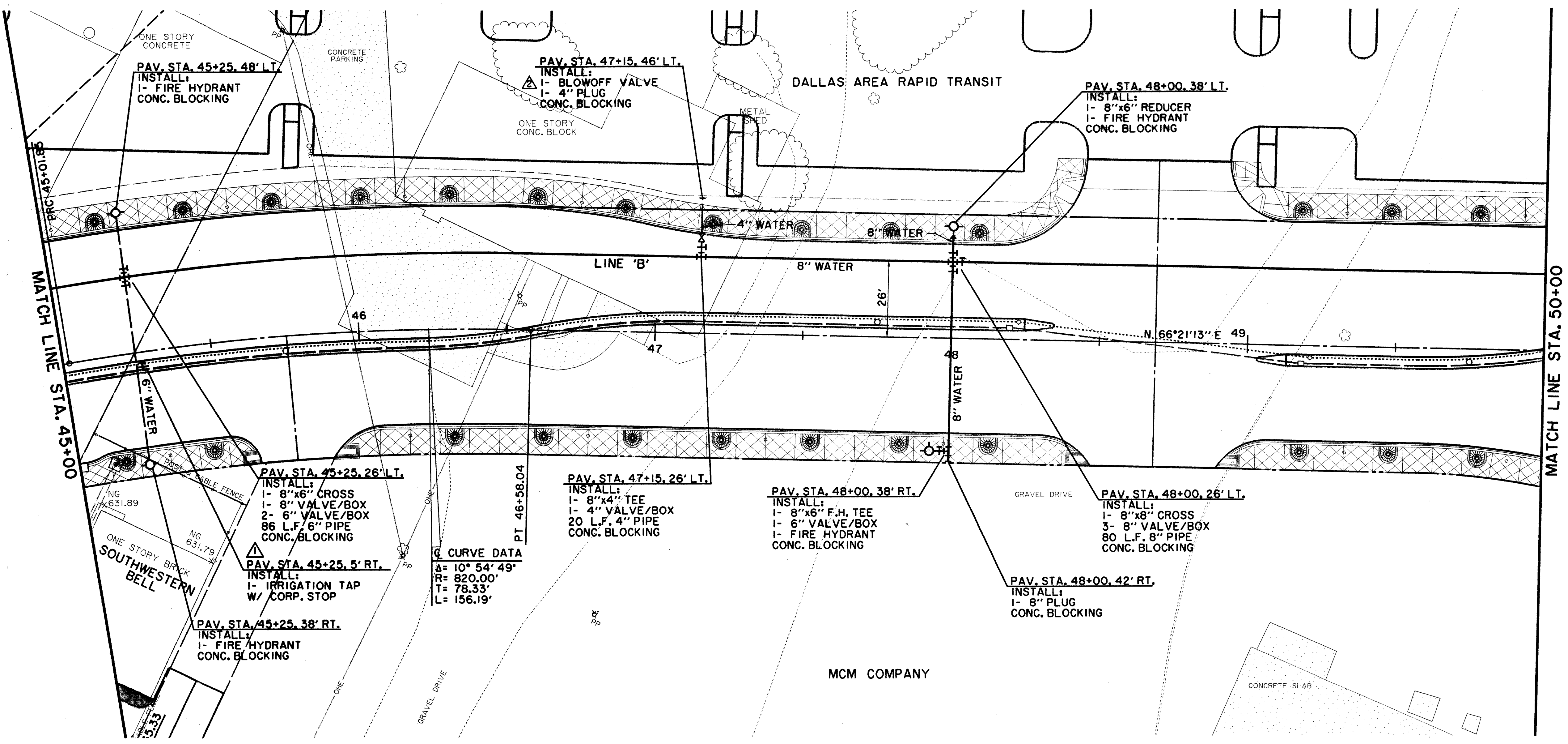
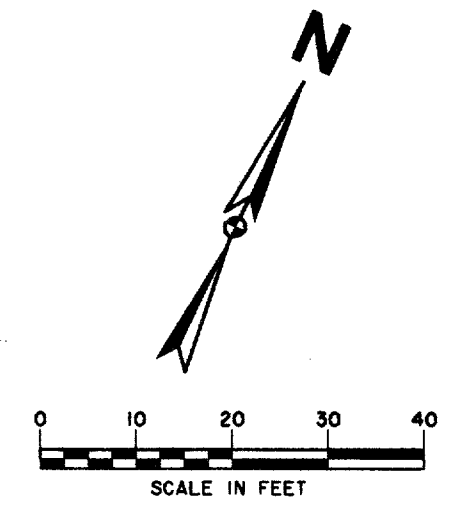


REVIS  
 11/13/97

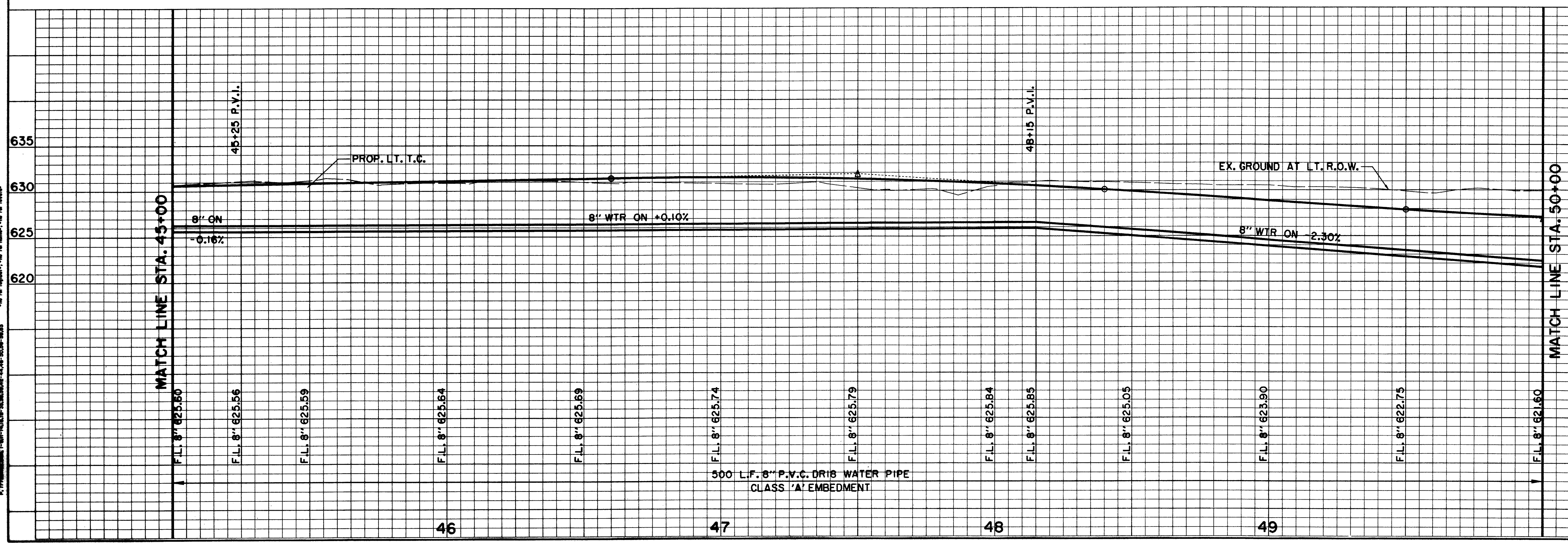
BRIDGE LANE MODIFICATION						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Hull-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1"=20'	OCT 97	1772-01	P-19

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



**BENCHMARKS:**  
 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND, ELEV. 650.61

'I' ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD, ELEV. 630.61

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

**RECORD DOCUMENTS**  
6/9/2000

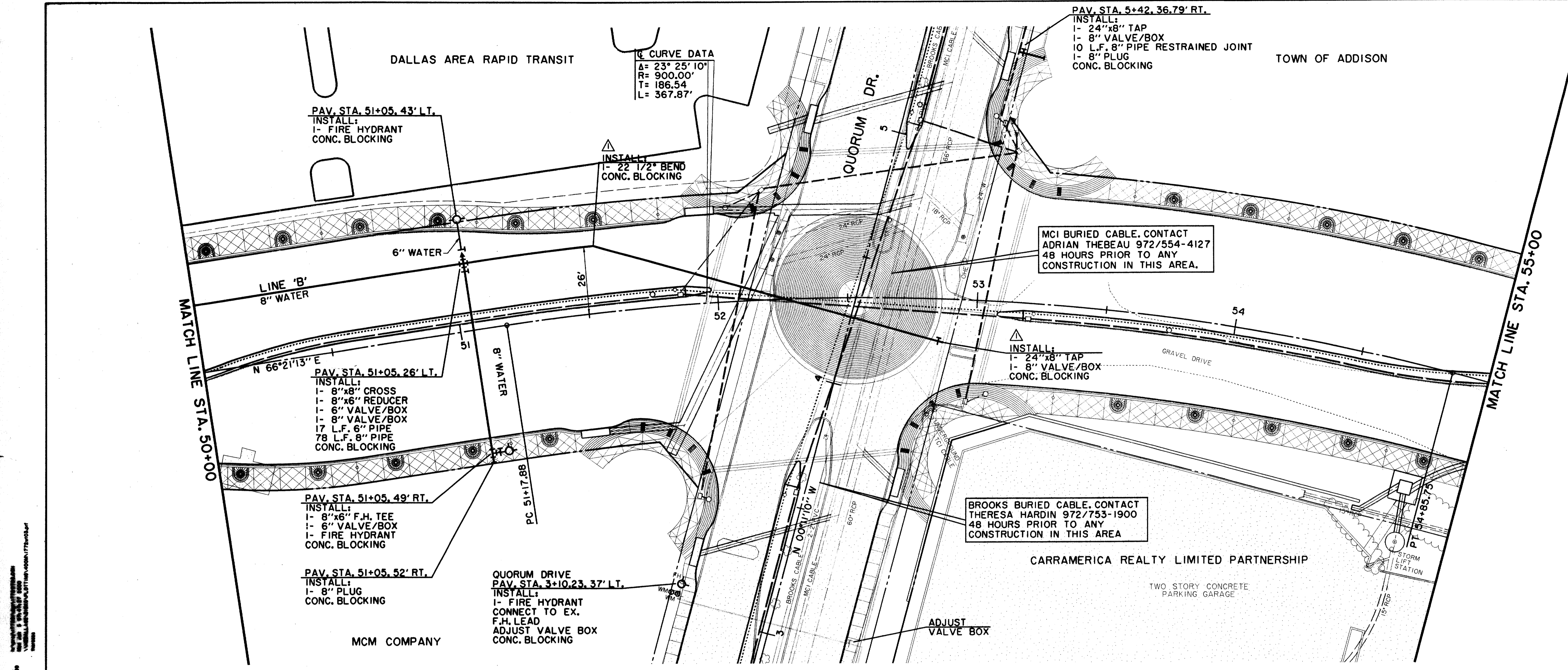
**REVISED**  
1/16/98

**WATER PLAN & PROFILE**  
 STA. 45+00 TO STA. 50+00  
**ARAPAHO ROAD**  
 ADDISON ROAD TO DALLAS NORTH TOLLWAY  
 TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Consulting Engineers  
 Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>1</sub> 1"=20' V <sub>1</sub> 1"=6'	OCT 97	1772-01	W-2

ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HUITT-ZOLLARS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF HUITT-ZOLLARS, INC.



**CURVE DATA**  
 A= 23° 25' 10"  
 R= 900.00'  
 T= 186.54'  
 L= 367.87'

PAV. STA. 5+42.36.79' RT.  
 INSTALL:  
 1- 24"x8" TAP  
 1- 8" VALVE/BOX  
 10 L.F. 8" PIPE RESTRAINED JOINT  
 1- 8" PLUG  
 CONC. BLOCKING

PAV. STA. 51+05.43' LT.  
 INSTALL:  
 1- FIRE HYDRANT  
 CONC. BLOCKING

INSTALL:  
 1- 22 1/2" BEND  
 CONC. BLOCKING

MCI BURIED CABLE. CONTACT  
 ADRIAN THEBEAU 972/554-4127  
 48 HOURS PRIOR TO ANY  
 CONSTRUCTION IN THIS AREA.

INSTALL:  
 1- 24"x8" TAP  
 1- 8" VALVE/BOX  
 CONC. BLOCKING

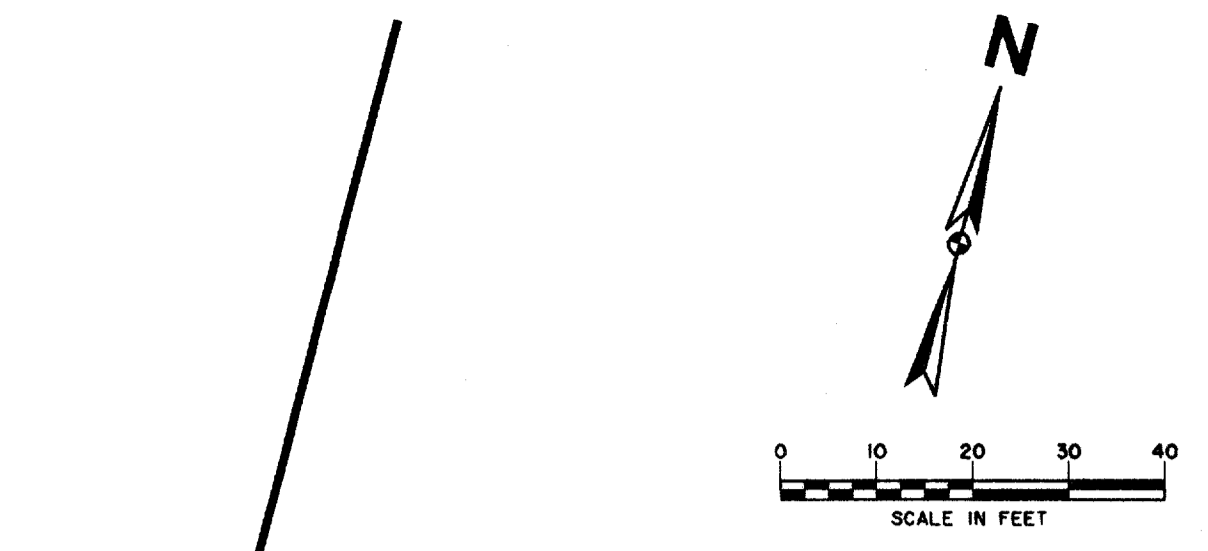
BROOKS BURIED CABLE. CONTACT  
 THERESA HARDIN 972/753-1900  
 48 HOURS PRIOR TO ANY  
 CONSTRUCTION IN THIS AREA

PAV. STA. 51+05.26' LT.  
 INSTALL:  
 1- 8"x8" CROSS  
 1- 8"x6" REDUCER  
 1- 6" VALVE/BOX  
 1- 8" VALVE/BOX  
 17 L.F. 6" PIPE  
 78 L.F. 8" PIPE  
 CONC. BLOCKING

PAV. STA. 51+05.49' RT.  
 INSTALL:  
 1- 8"x6" F.H. TEE  
 1- 6" VALVE/BOX  
 1- FIRE HYDRANT  
 CONC. BLOCKING

PAV. STA. 51+05.52' RT.  
 INSTALL:  
 1- 8" PLUG  
 CONC. BLOCKING

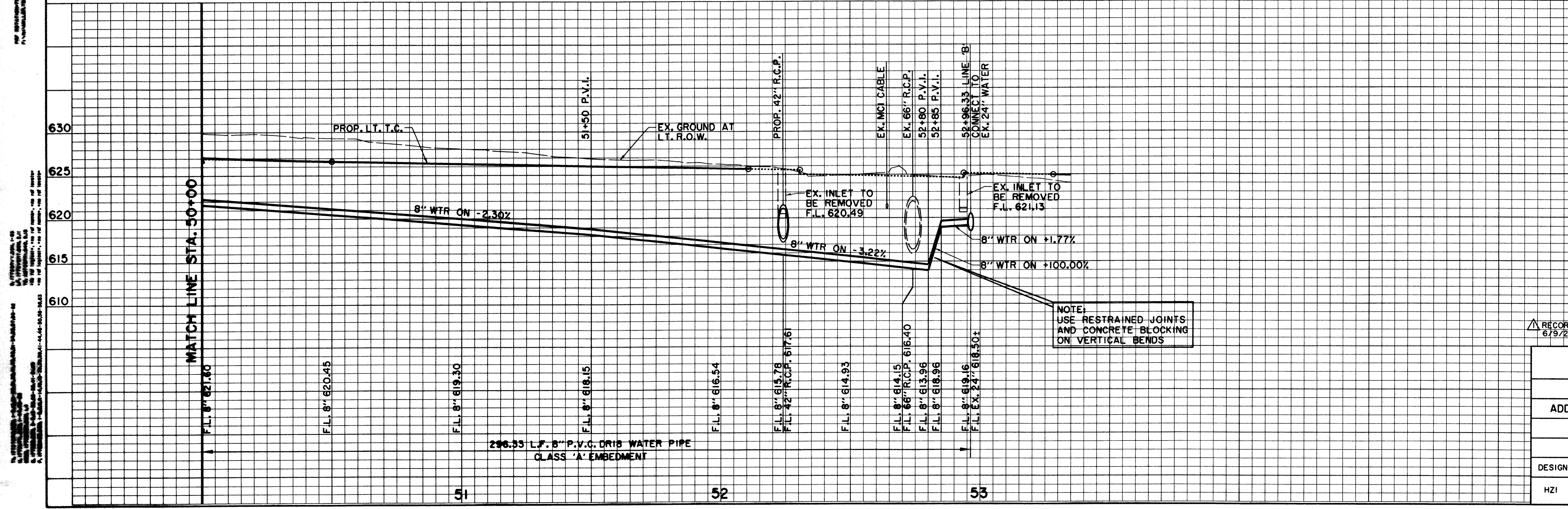
QUORUM DRIVE  
 PAV. STA. 3+10.23.37' LT.  
 INSTALL:  
 1- FIRE HYDRANT  
 CONNECT TO EX.  
 F.H. LEAD  
 ADJUST VALVE BOX  
 CONC. BLOCKING



THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

**LEGEND**

ELECTRIC — OHE —	WATER — W —
LIGHT POLE	FIRE HYDRANT
POWER POLE	METER
GUY WIRE	WATER VALVE
TELEPHONE — T —	MISC.
TELEPHONE MANHOLE	R.C.P. REMOVAL
TELEPHONE PEDESTAL	CHAIN LINK FENCE
TELEPHONE SIGN	WOOD FENCE
GAS — G —	EXISTING ASPHALT
GAS METER	EXISTING DIRT OR GRAVEL
GAS SIGN	EX. CONCRETE
LAND USE	TREE/TREE LINE
RAILROAD SIGN	EXISTING CURB
SIGN	PROP. CURB
SURVEY	EX. PROPERTY LINE
FOUND IRON ROD	PROP. CENTERLINE
TEMP BENCHMARK	PROP. R.O.W.
WASTEWATER — WW —	PROP. INLET
WASTEWATER MANHOLE	TOP OF PAVEMENT
CLEANOUT	TOP OF CURB
	T.C.
	C.R.



**BENCHMARKS:**  
 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61

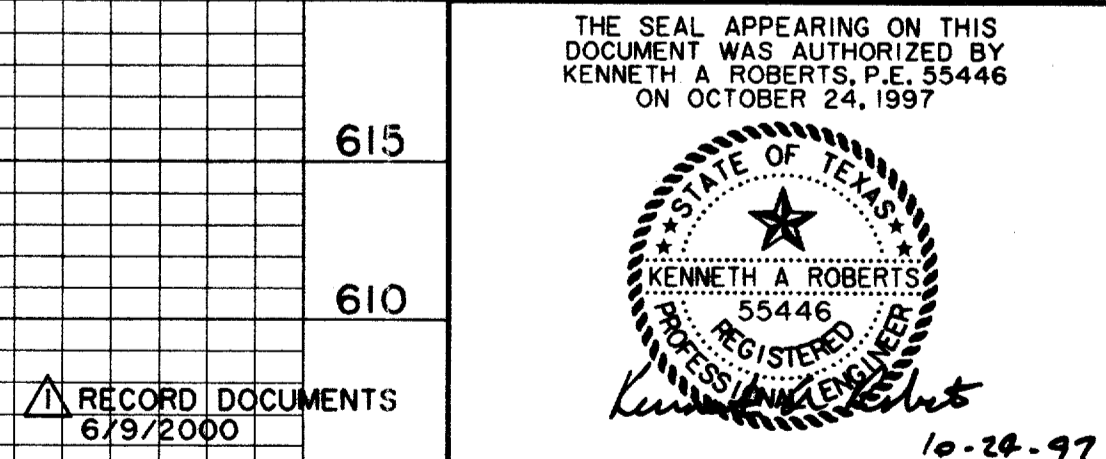
630 'C' ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61

625

620

615

610



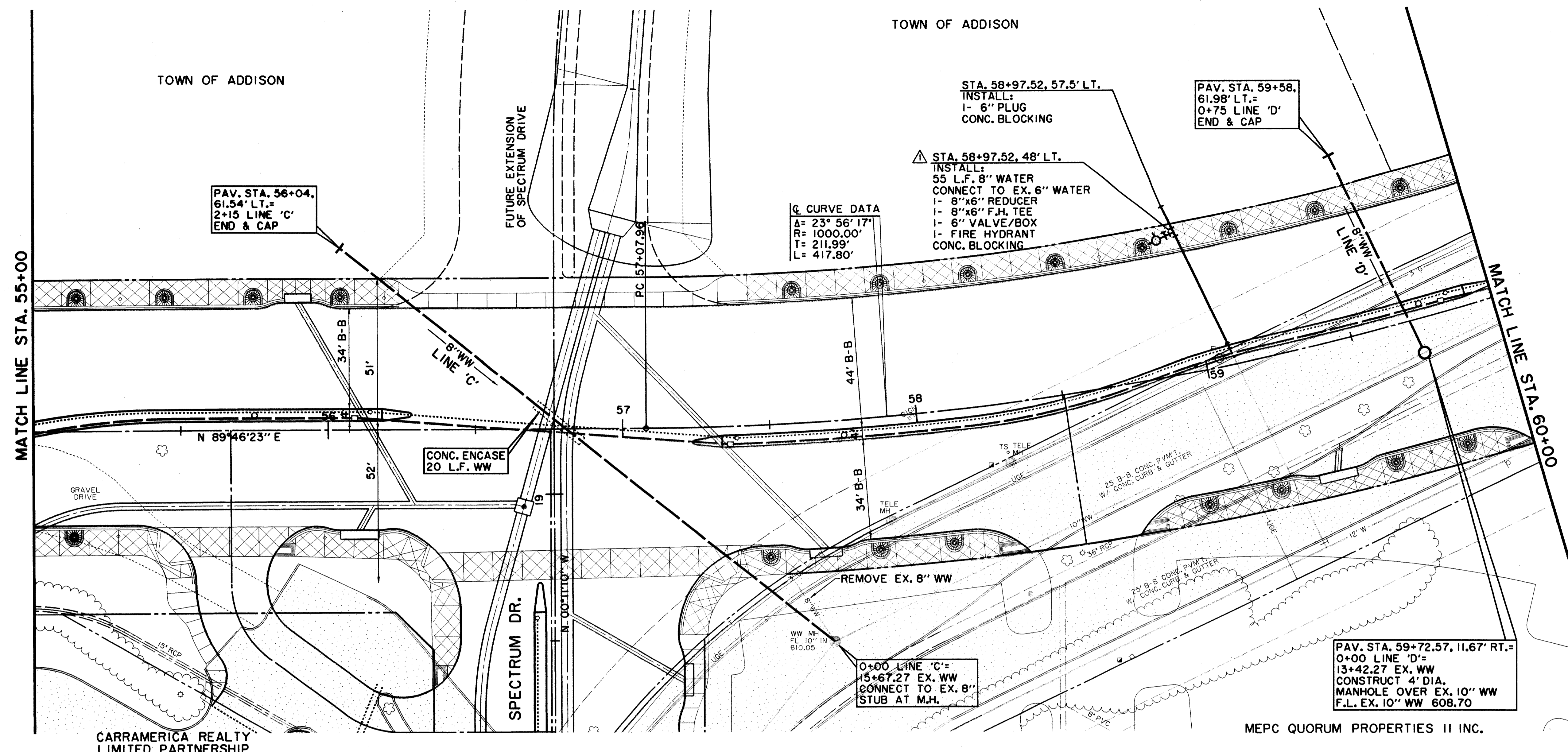
RECORD DOCUMENTS  
 6/9/2000

**WATER PLAN & PROFILE**  
 STA. 50+00 TO STA. 55+00  
**ARAPAHO ROAD**  
 ADDISON ROAD TO DALLAS NORTH TOLLWAY  
 TOWN OF ADDISON, TEXAS  
 Hui!!-Zollars, Inc./Consulting Engineers  
 Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZ1	HZ1	KAR	H:1"=20' V:1"=6'	OCT 97	1772-01	W-3

ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HUI!!-ZOLLARS, INC. AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE OR MODIFICATION OF THIS INFORMATION WITHOUT THE WRITTEN CONSENT OF HUI!!-ZOLLARS, INC. IS STRICTLY PROHIBITED.





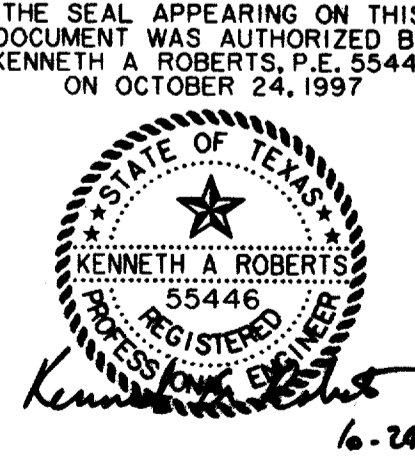
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

**LEGEND**

	ELECTRIC — OHE		WATER — W
	○ LIGHT POLE		○ FH FIRE HYDRANT
	□ POWER POLE		○ WM METER
	— GUY WIRE		○ T WATER VALVE
	— TELEPHONE — T		✕ 48" R.C.P. REMOVAL
	○ TELEPHONE MANHOLE		— CHAIN LINK FENCE
	□ TELEPHONE PEDESTAL		— WOOD FENCE
	○ TELEPHONE SIGN		— EXISTING ASPHALT
	— GAS — G		— EXISTING DIRT OR GRAVEL
	○ GAS METER		— EX. CONCRETE
	○ GAS SIGN		— TREE/TREE LINE
	— LAND USE		— EXISTING CURB
	— RAILROAD SIGN		— PROP. CURB
	○ FOUND IRON ROD		— EX. PROPERTY LINE
	□ TEMP BENCHMARK		— PROP. CENTERLINE
	— WASTEWATER — WW		— PROP. R.O.W.
	○ WASTEWATER MANHOLE		— PROP. INLET
	○ CLEANOUT		○ P.V.M.T. TOP OF PAVEMENT
			○ T.C. TOP OF CURB
			○ C.R. CURB RETURN

**BENCHMARKS:**  
 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61  
 "I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

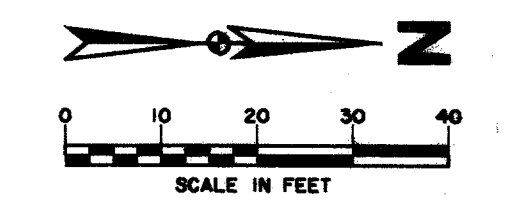
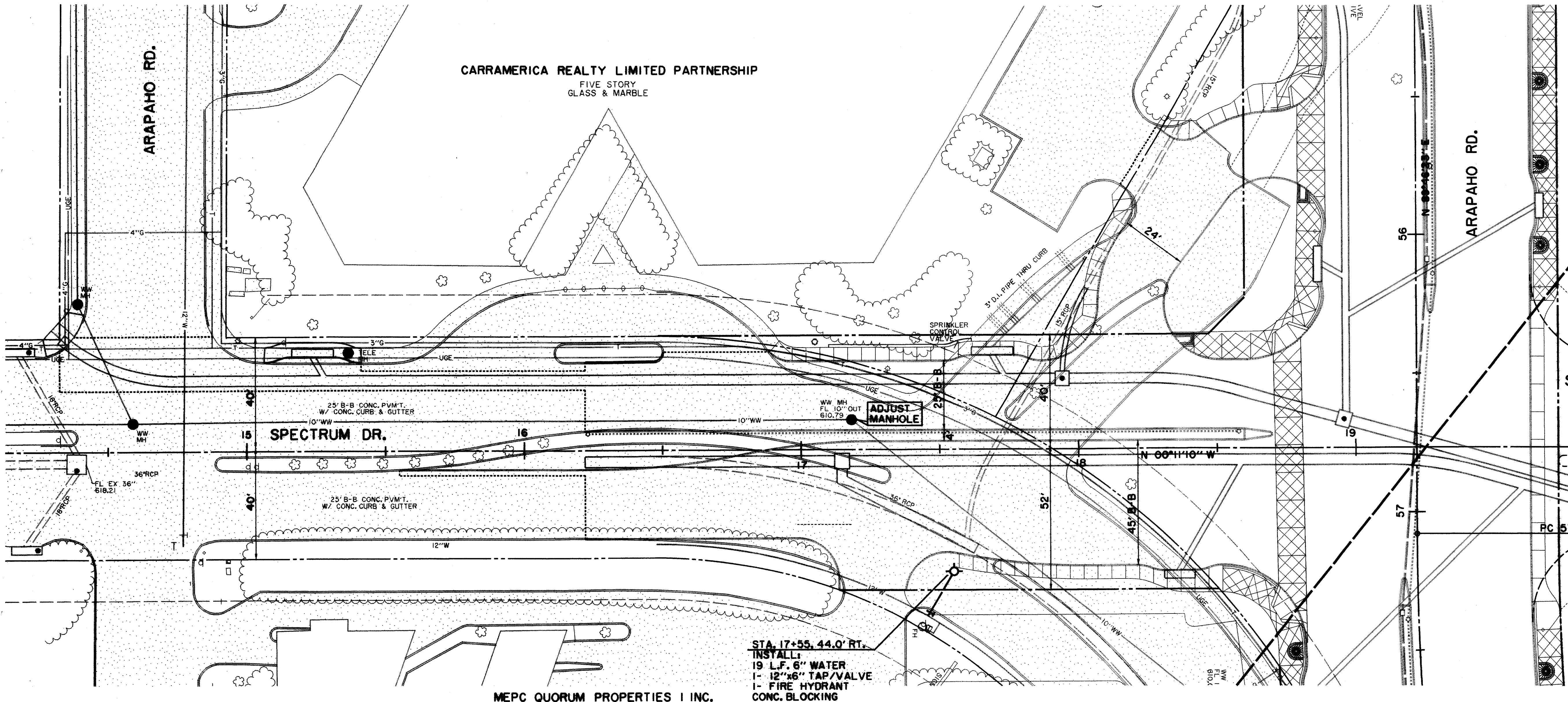


RECORD DOCUMENTS 6/9/2000

WATER & WASTEWATER PLAN & PROFILE						
STA. 55+00 TO STA. 60+00						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>1</sub> 1"=20' V <sub>1</sub> 1"=6'	OCT 97	1772-01	W-4

THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HUIIT-ZOLLARS, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF HUIIT-ZOLLARS, INC.

THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HUIIT-ZOLLARS, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF HUIIT-ZOLLARS, INC.



TOWN OF ADDISON

RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

FUTURE SPECTRUM DR. EXTENSION

**LEGEND**

<b>ELECTRIC</b> — OHE —	<b>WATER</b> — W —
○ LIGHT POLE	○ FH FIRE HYDRANT
pp POWER POLE	WM METER
— GUY WIRE	T WATER VALVE
<b>TELEPHONE</b> — T —	<b>MISC.</b>
● TELEPHONE MANHOLE	48" RCP R.C.P. REMOVAL
□ TELEPHONE PEDESTAL	— CHAIN LINK FENCE
TS TELEPHONE SIGN	— WOOD FENCE
<b>GAS</b> — G —	— EXISTING ASPHALT
GM GAS METER	— EXISTING DIRT OR GRAVEL
GS GAS SIGN	— EX. CONCRETE
<b>LAND USE</b>	— TREE/TREE LINE
R/R RAILROAD SIGN	— EXISTING CURB
○ SIGN	— PROP. CURB
<b>SURVEY</b>	— EX. PROPERTY LINE
I.R. FOUND IRON ROD	— PROP. CENTERLINE
□ TEMP BENCHMARK	— PROP. R.O.W.
<b>WASTEWATER</b> — WW —	— PROP. INLET
WM WASTEWATER MANHOLE	PVMT TOP OF PAVEMENT
CO CLEANOUT	T.C. TOP OF CURB
	C.R. CURB RETURN

STA. 17+55.44.0' RT.  
 INSTALL:  
 19 L.F. 8" WATER  
 1- 12"x6" TAP/VALVE  
 1- FIRE HYDRANT  
 CONC. BLOCKING

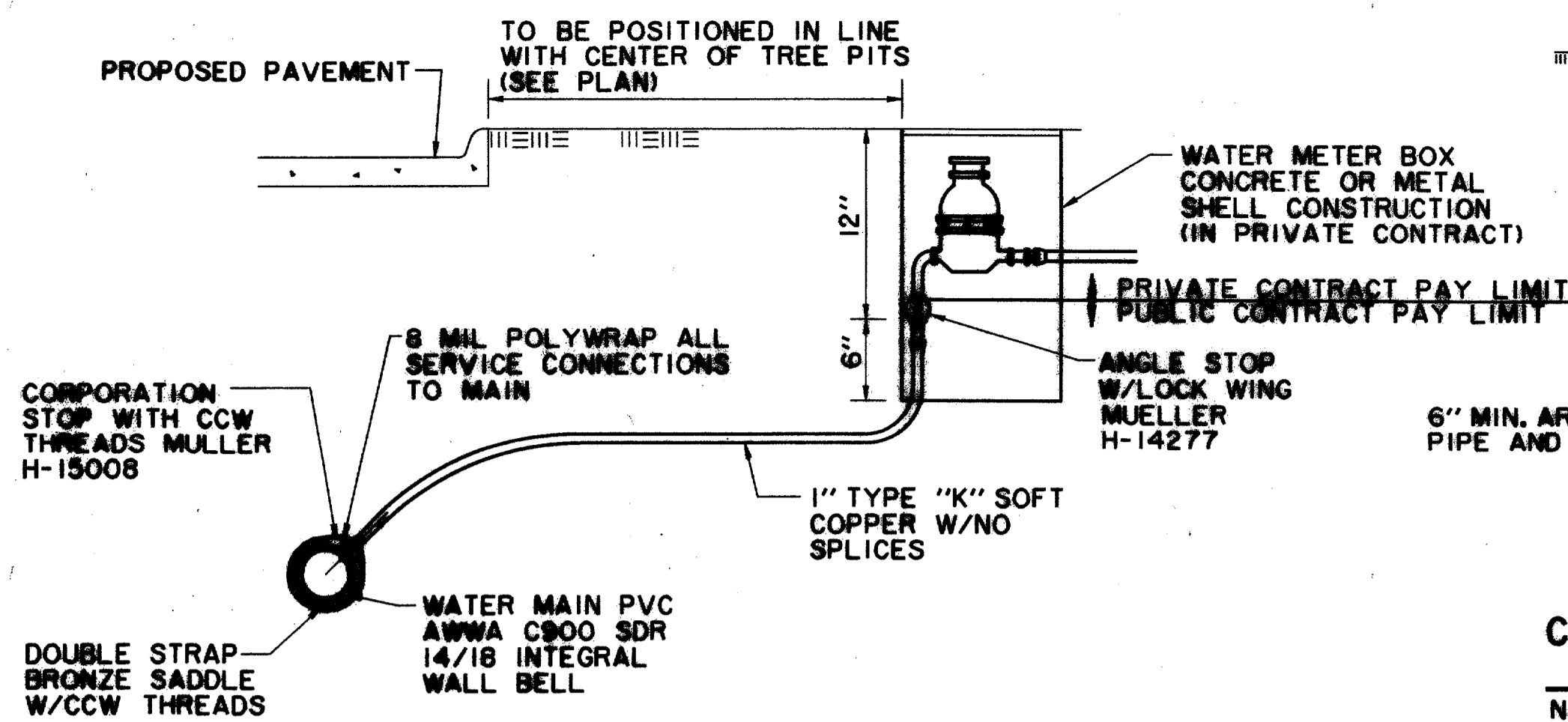
MEPC QUORUM PROPERTIES I INC.

**BENCHMARKS:**  
 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61  
 "I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61

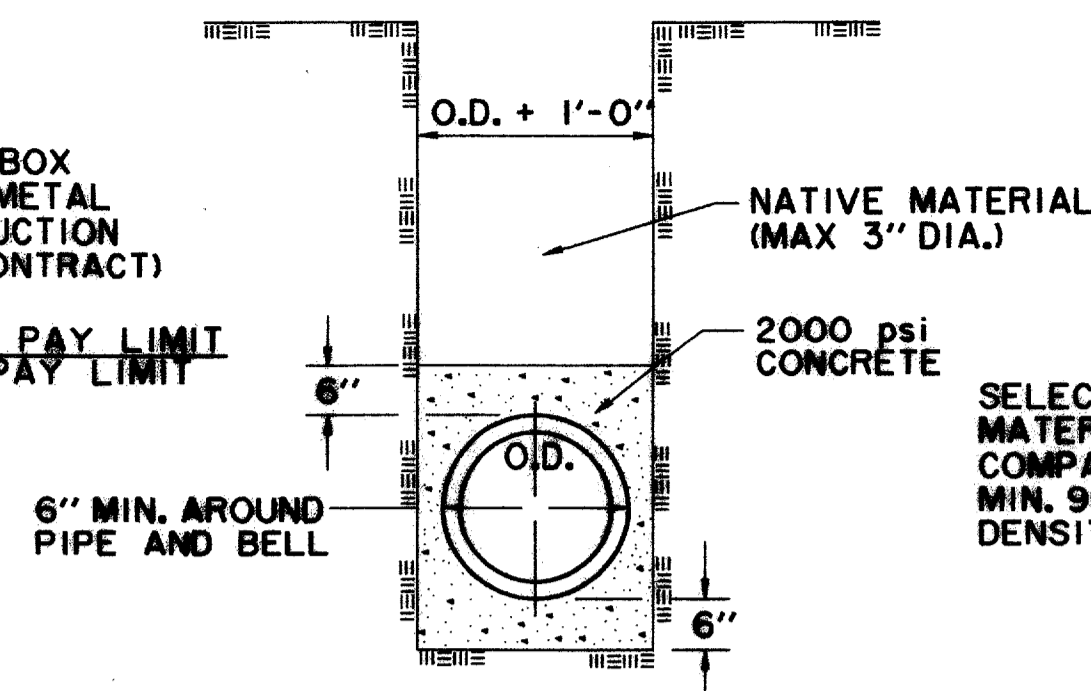
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

**WATER & WASTEWATER PLAN**  
 SPECTRUM DR. STA. 15+55 TO STA. 19+22.03  
**ARAPAHO ROAD**  
 ADDISON ROAD TO DALLAS NORTH TOLLWAY  
 TOWN OF ADDISON, TEXAS  
 Huitt-Zollars, Inc./Consulting Engineers  
 Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1/4" = 20' 1/8" = 5'	OCT 97	1772-01	W-7



**TYPICAL WATER SERVICE DETAIL**  
N.T.S.

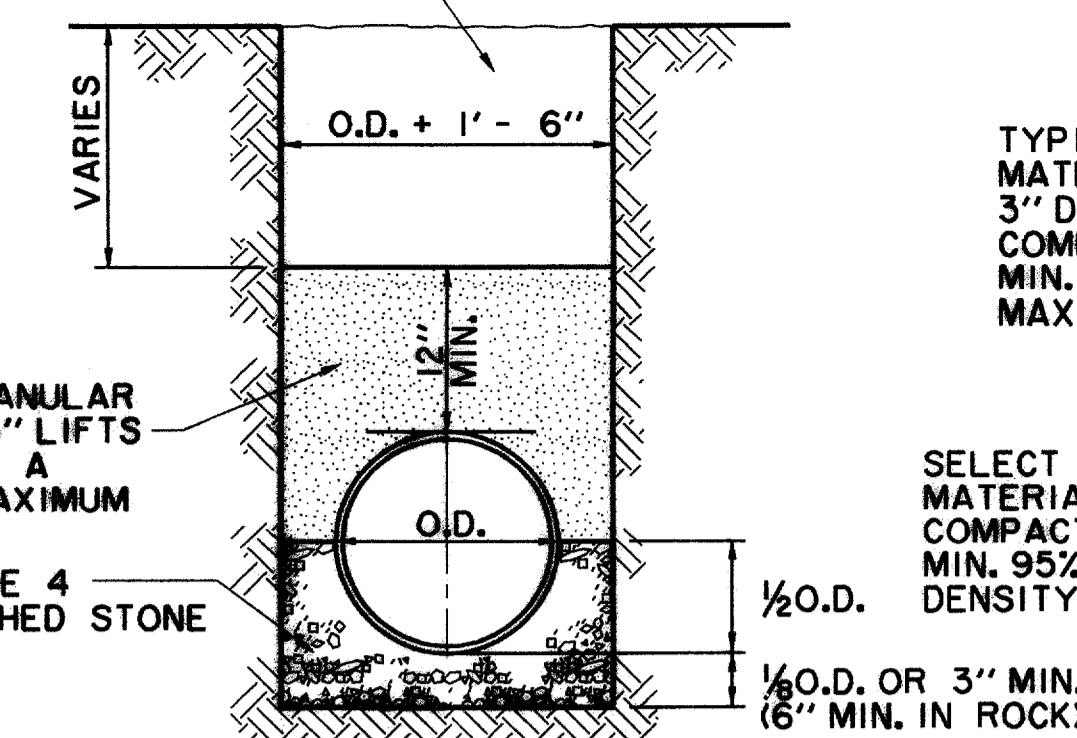


**CONCRETE ENCASEMENT WATER MAIN**  
N.T.S.

TYPICAL NATIVE MATERIAL (MAX. 3" DIA.) IN 6" LIFTS COMPACTED TO A MIN. 95% OF MAXIMUM DENSITY

SELECT OR GRANULAR MATERIAL IN 6" LIFTS COMPACTED TO A MIN. 95% OF MAXIMUM DENSITY

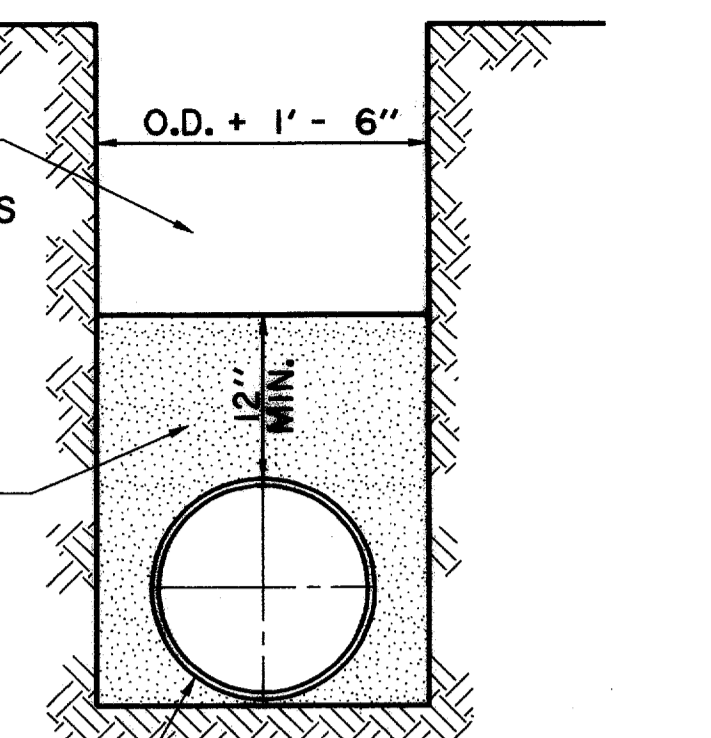
GRADE 4 CRUSHED STONE



**RCCP WATERLINE EMBEDMENT**  
N.T.S.

TYPICAL NATIVE MATERIAL (MAX. 3" DIA.) IN 6" LIFTS COMPACTED TO A MIN. 95% OF MAXIMUM DENSITY

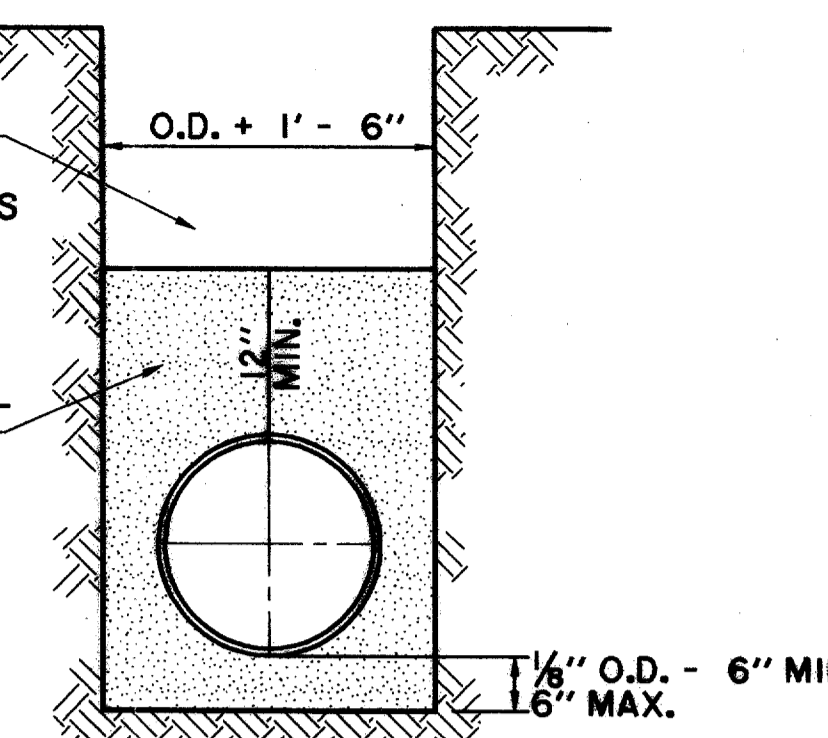
SELECT OR GRANULAR MATERIAL IN 6" LIFTS COMPACTED TO A MIN. 95% OF MAXIMUM DENSITY



**C.I. OR D.I. PIPE**  
N.T.S.

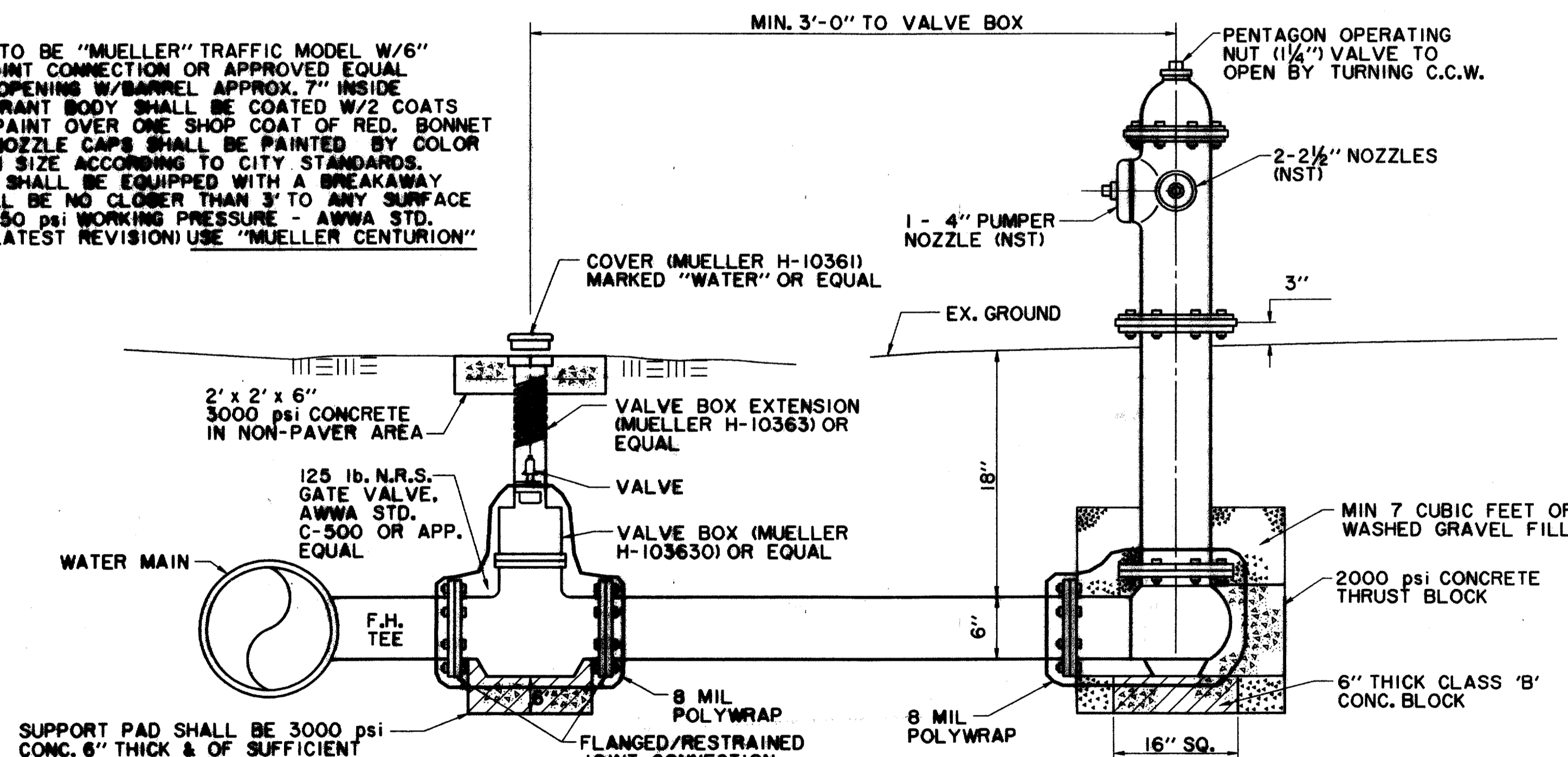
TYPICAL NATIVE MATERIAL (MAX. 3" DIA.) IN 6" LIFTS COMPACTED TO A MIN. 95% OF MAXIMUM DENSITY

SELECT MATERIAL (CLEAN SAND)



**CLASS "A" EMBEDMENT P.V.C.**  
N.T.S.

FIRE HYDRANT TO BE "MUELLER" TRAFFIC MODEL W/6" MECHANICAL JOINT CONNECTION OR APPROVED EQUAL W/3/4" VALVE OPENING W/BARREL APPROX. 7" INSIDE DIAMETER. HYDRANT BODY SHALL BE COATED W/2 COATS OF ALUMINUM PAINT OVER ONE SHOP COAT OF RED. BONNET TO FLANGE & NOZZLE CAPS SHALL BE PAINTED BY COLOR CODE FOR MAIN SIZE ACCORDING TO CITY STANDARDS. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE & SHALL BE NO CLOSER THAN 3' TO ANY SURFACE OBSTRUCTION. (150 PSI WORKING PRESSURE - AWWA STD. C-302-85 OR LATEST REVISION) USE "MUELLER CENTURION"



**VALVE BOX DETAIL**  
N.T.S.

(SEE PLANS FOR "MAIN SIZE")

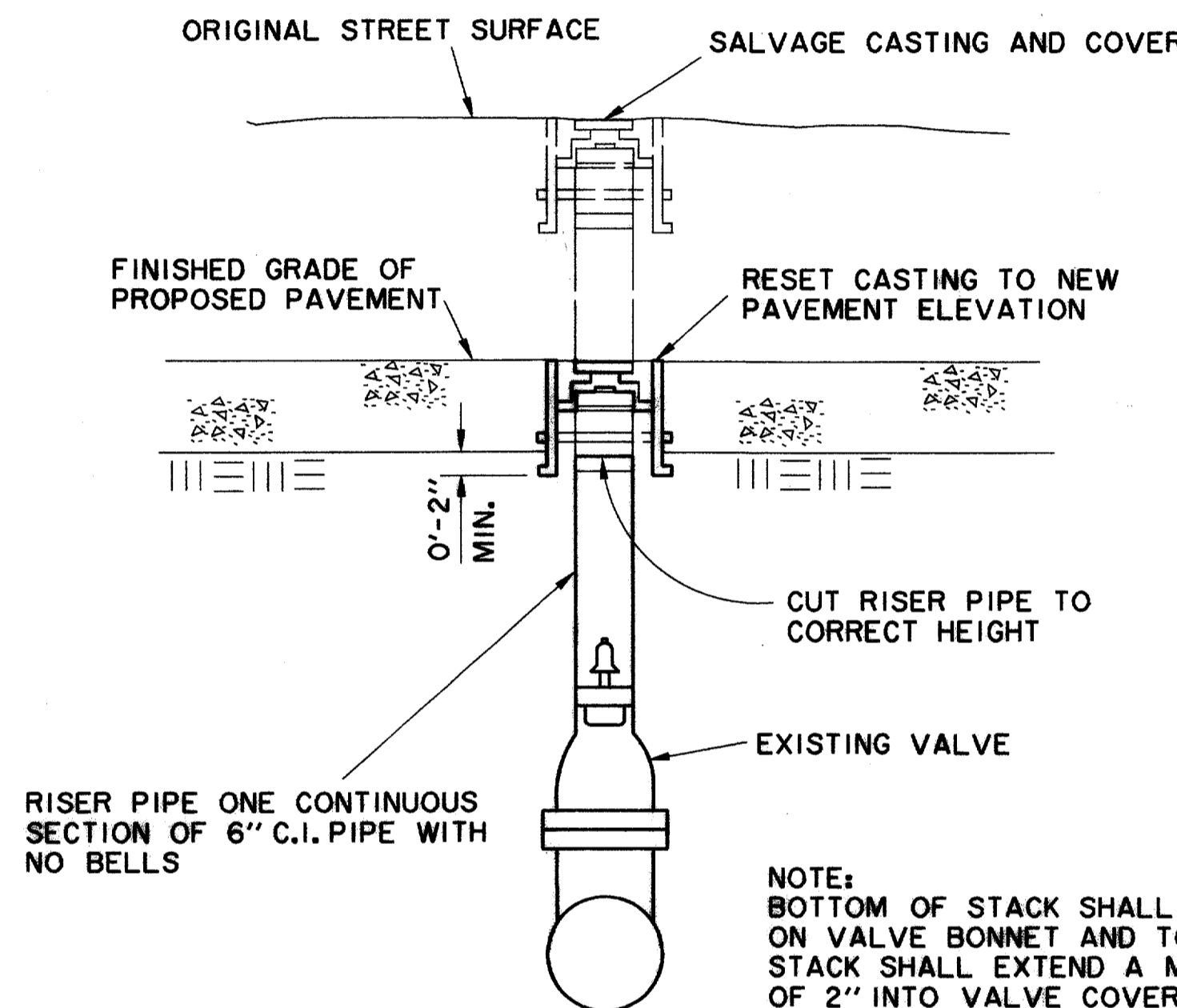
**TYPICAL FIRE HYDRANT INSTALLATION**  
N.T.S.

**GATE VALVES AND VALVE BOXES:**

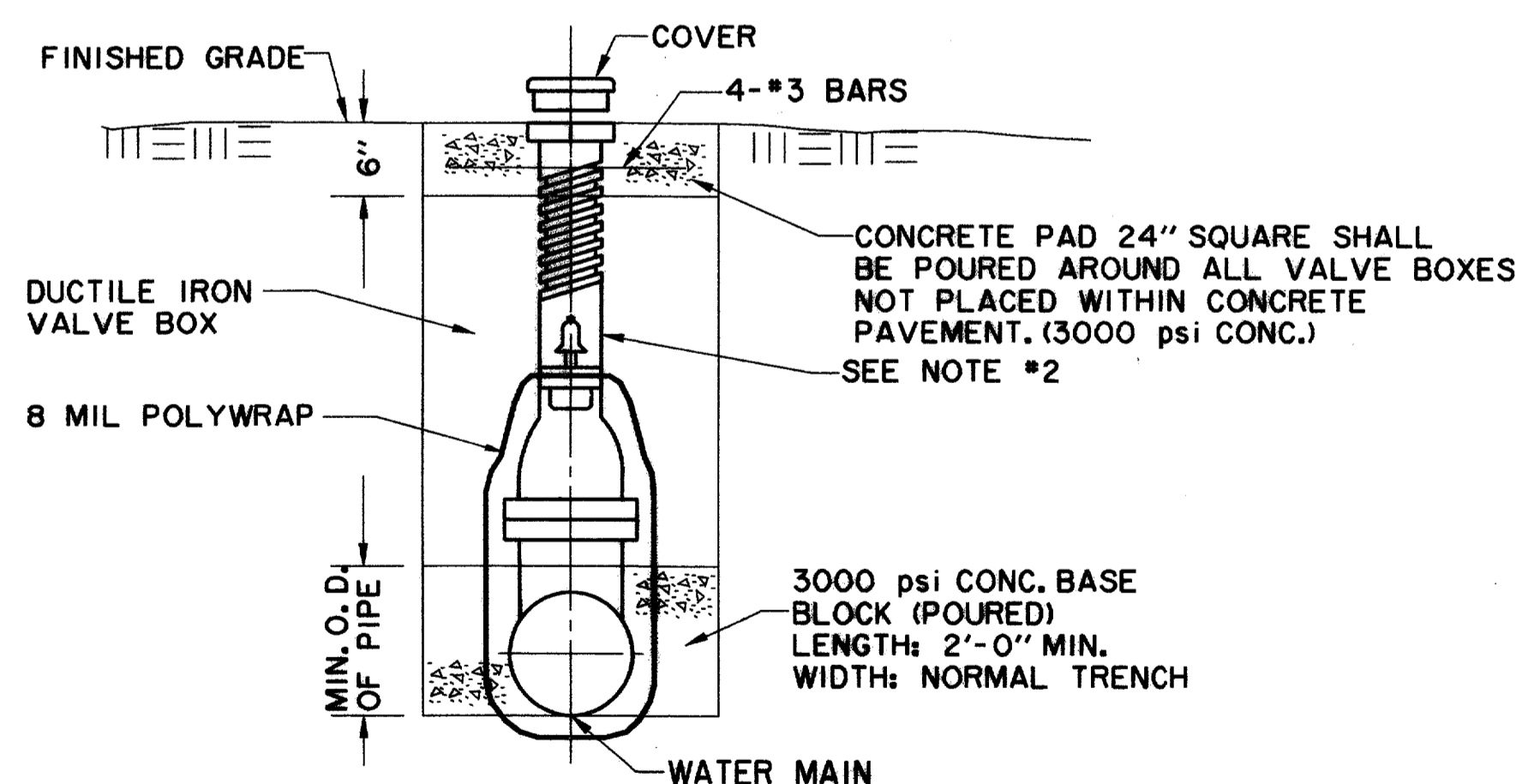
- GATE VALVES SHALL BE IRON BODY, BRONZE OR BRASS MOUNTED, NON-RISING STEM, PARALLEL SEAT TYPE. VALVES SHALL BE OF EQUAL OR GREATER PRESSURE CLASS THAN THE PIPING IN WHICH THEY ARE TO BE INSTALLED.
- VALVE BOXES SHALL BE CAST IRON AND SHALL BE OF SUFFICIENT LENGTH AND DIAMETER TO OPERATE ALL VALVES BURIED IN THE GROUND. COVERS SHALL BE MARKED "WATER". THE BOXES SHALL REST ON THE VALVE AND BE ADJUSTED SO THAT THE COVER MAY SET FLUSH WITH THE FINISHED GRADE.

**GENERAL NOTES:**

- 1/4" OF F.H. BARREL SHALL BE NOT LESS THAN 6.0' OR MORE THAN 9.0' FROM BACK OF CURB OR EDGE OF DRIVING LANE.
- DO NOT SET F.H. IN AN EXISTING OR PROPOSED SIDEWALK, UNLESS OTHERWISE NOTED.
- ALL F.H. TEES SHALL BE M.J. WITH FLANGED/RESTRAINED JOINT ON THE BRANCH WITH FLANGED/RESTRAINED JOINT VALVE.



**VALVE COVER AND RISER PIPE ADJUSTMENT**  
N.T.S.



**TYPICAL VALVE SETTING AND BOX**  
N.T.S.

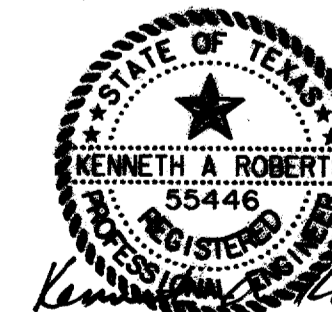
**NOTES:**

- GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C-509-80 OR LATEST THEREOF ALL VALVES SHALL BE "MUELLER" OR APPROVED EQUAL.
- A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE THAT ITS OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF VALVE BOX LID. MANUFACTURED VALVE STACK DUCTILE IRON PIPE TO BE USED FOR EXTENSION GREATER THAN 4'-0" BELL END OF STACK TO BE FITTED OVER VALVE. VALVE AND VALVE STACK IS TO BE POLY WRAPPED.
- VALVES SHALL BE OF DUCTILE IRON W/RUBBER ENCAPSULATED DISK. BOLTS SHALL BE STAINLESS STEEL OF SAME SIZE ON EACH VALVE.

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



**WATER DETAILS**

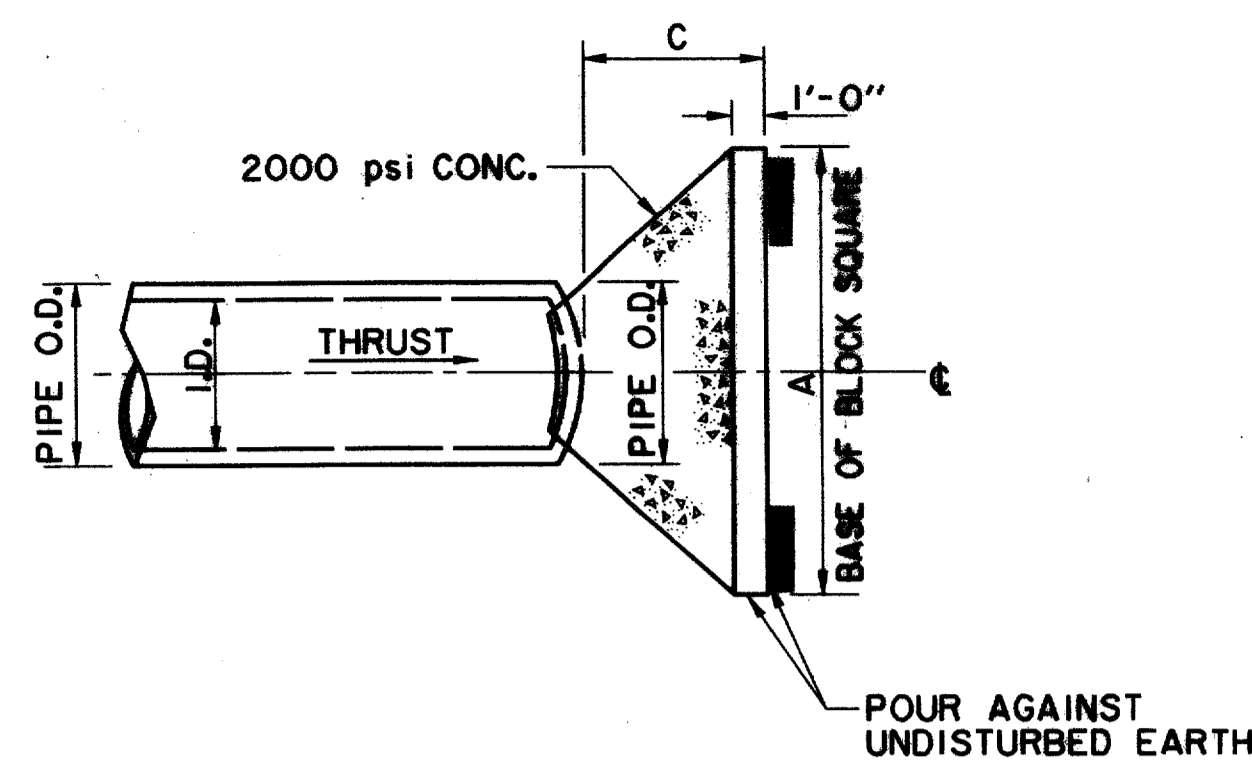
**ARAPAHO ROAD**

ADDISON ROAD TO DALLAS NORTH TOLLWAY

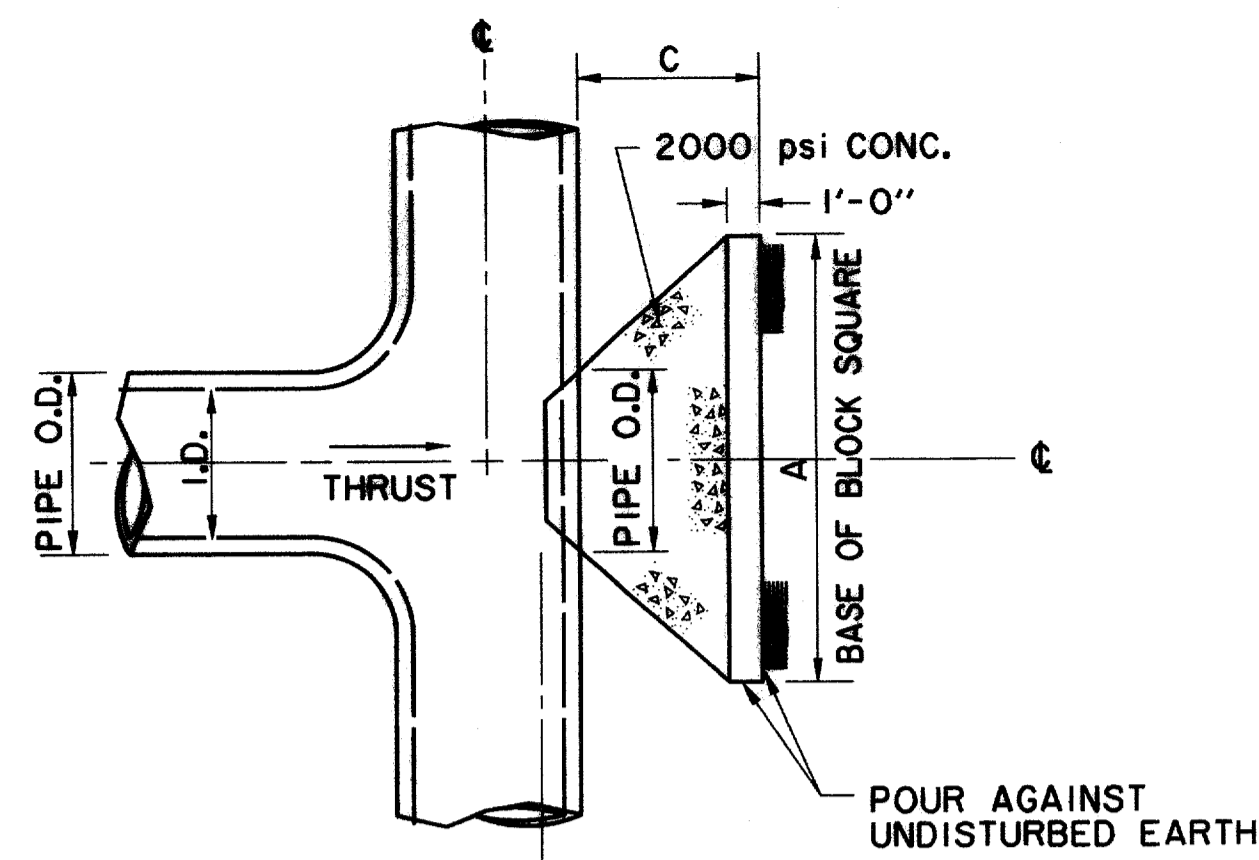
TOWN OF ADDISON, TEXAS

Huff-Zollars, Inc./Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	N.T.S.	OCT 97	1772-01	W-8

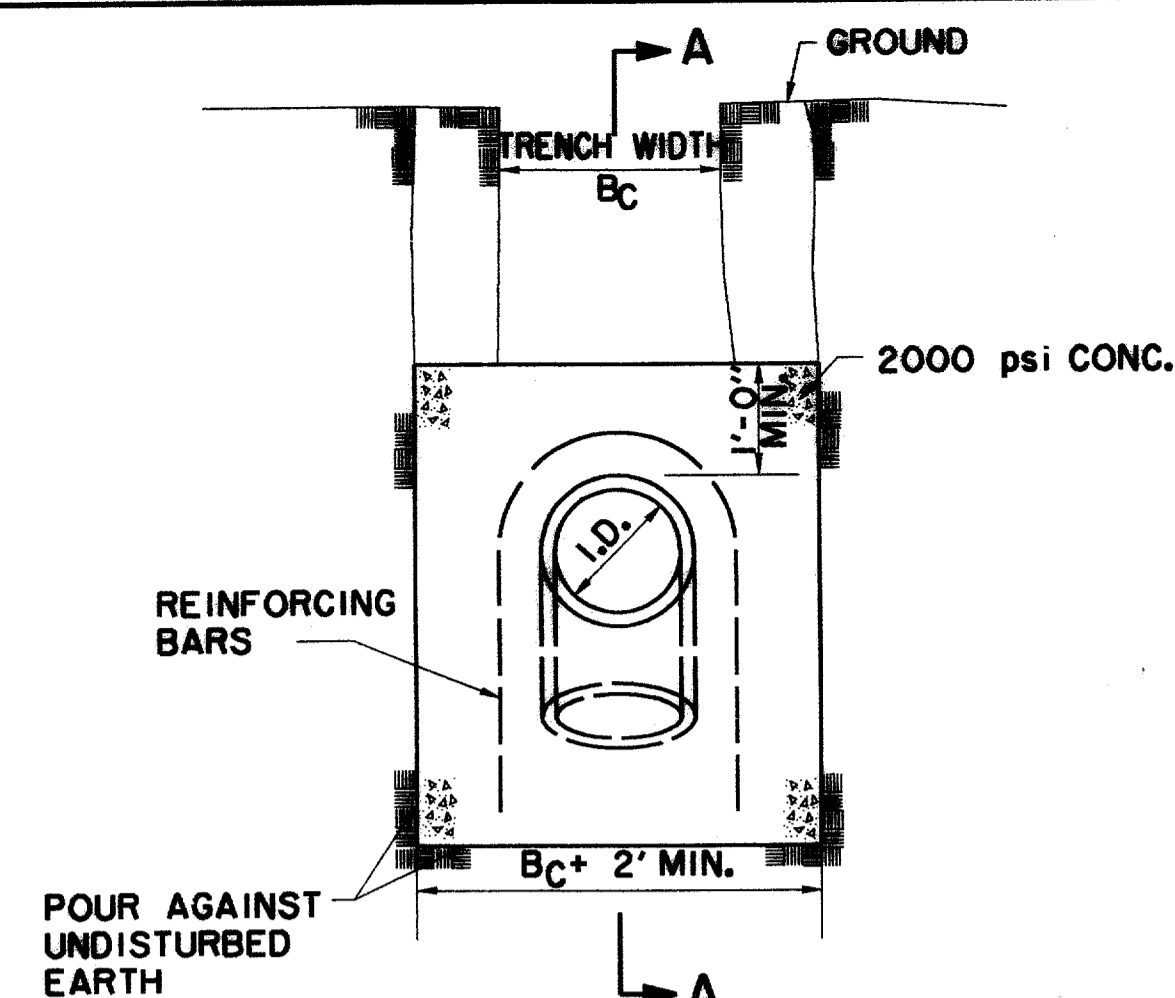


**PLAN OF PLUG THRUST BLOCK**  
N.T.S.

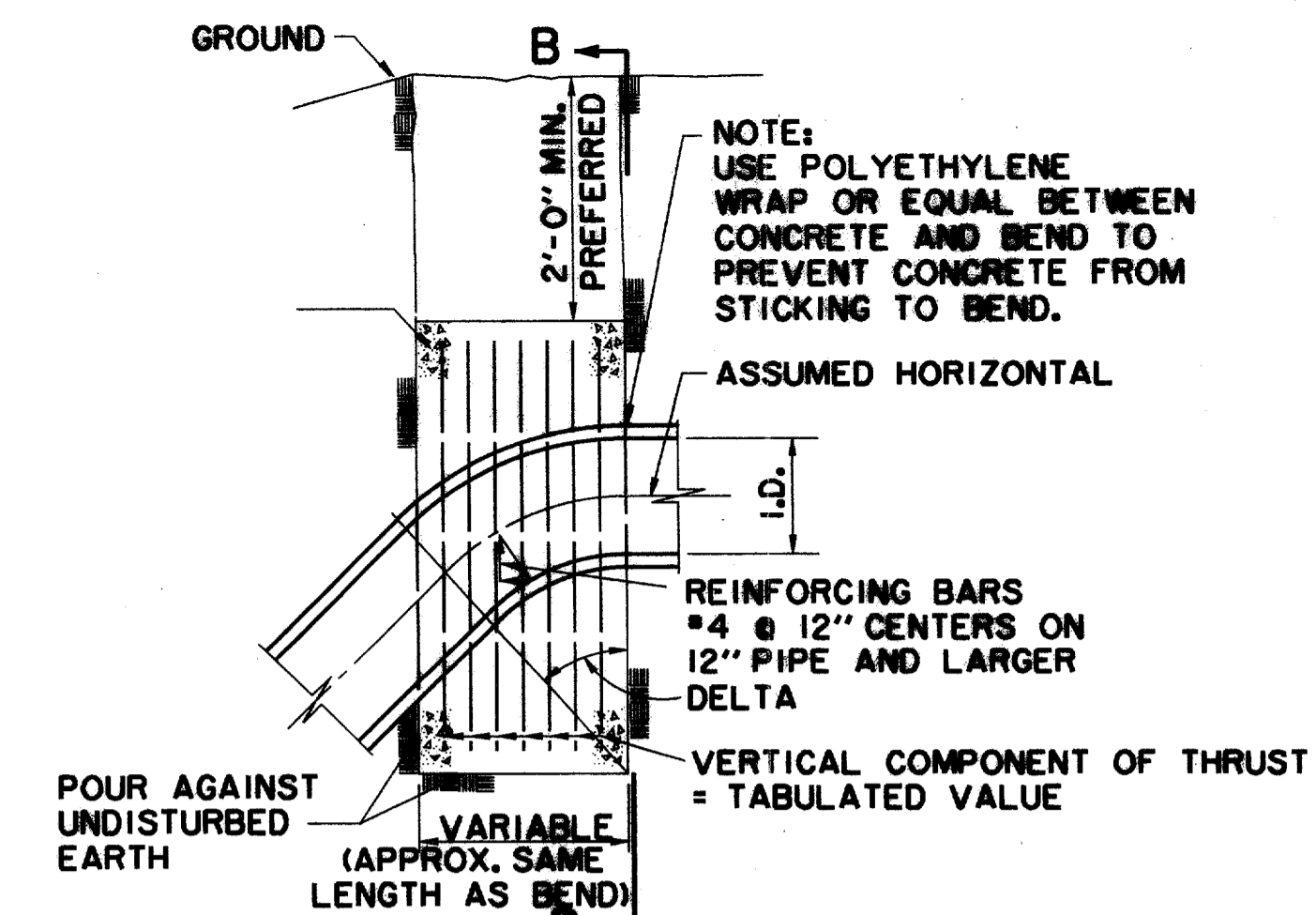


**PLAN OF TEE THRUST BLOCK**  
N.T.S.

I.D. (IN.)	THRUST TONS	C. FT.	EARTH			ROCK		
			A. FT.	B. FT.	VOL. C.Y.	A. FT.	B. 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		
24	45.2	2.5	7.0	3.1	5.0	1.7		



**ELEVATION B-B**  
N.T.S.

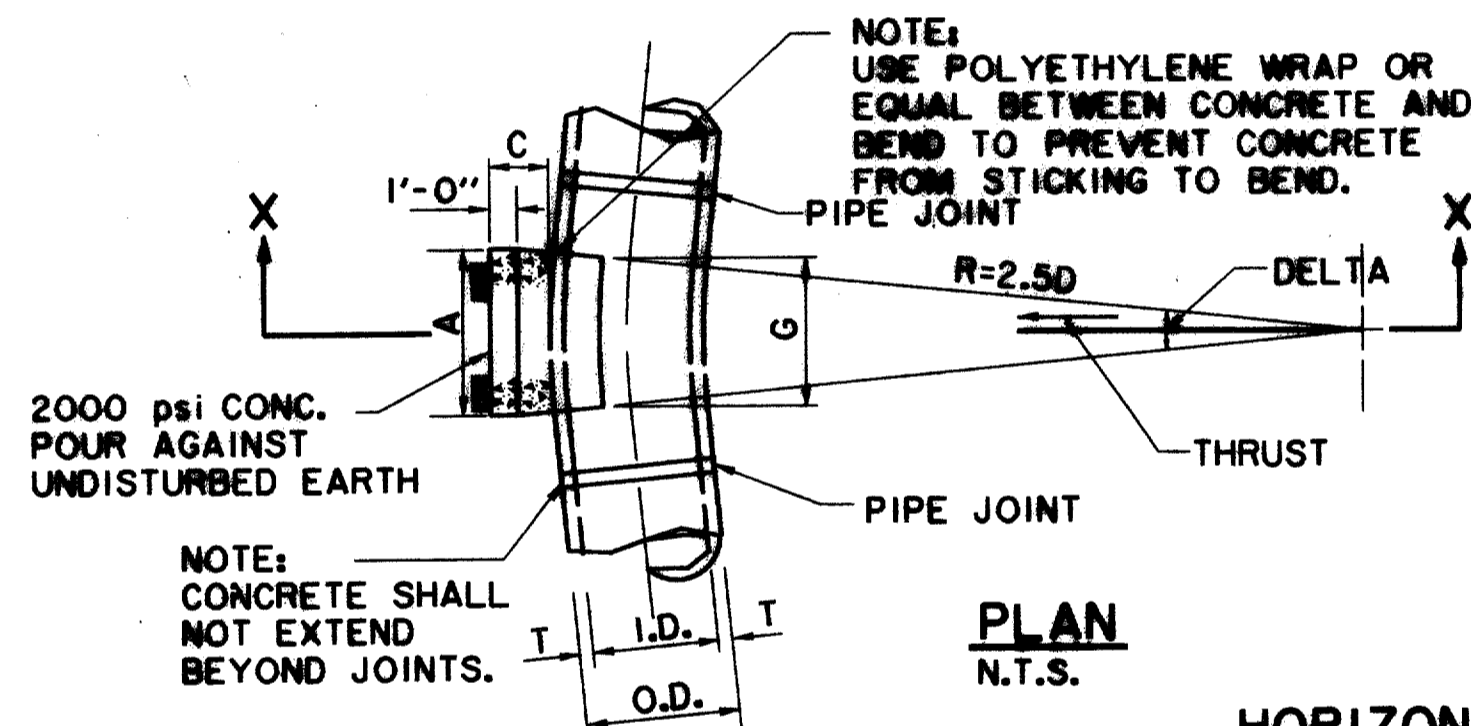


**SECTION A-A**  
N.T.S.

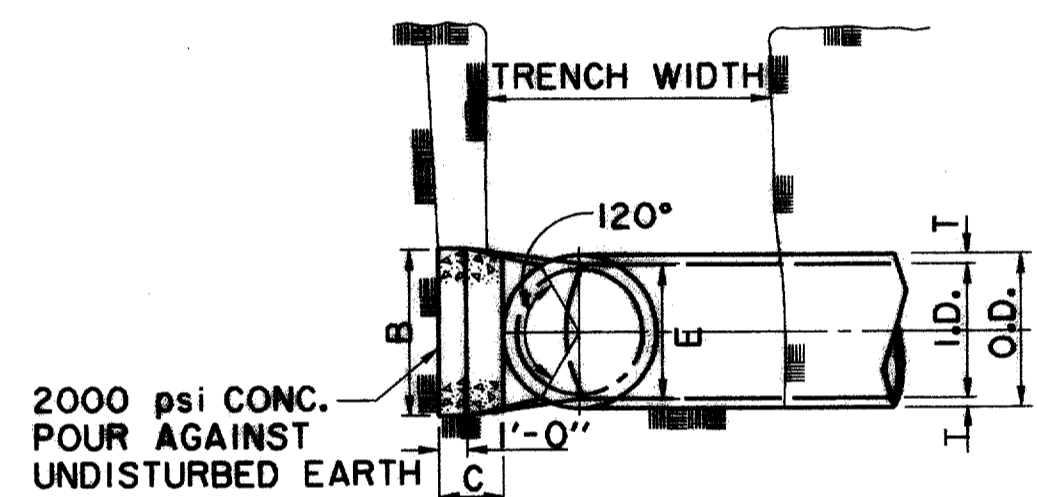
I.D. (IN.)	THRUST TONS	VOL. C.Y.	22.50°		30°		45°		67.50°		90°		I.D. (IN.)
			THRUST TONS	VOL. C.Y.	THRUST TONS	VOL. C.Y.	THRUST TONS	VOL. C.Y.	THRUST TONS	VOL. C.Y.	THRUST TONS	VOL. C.Y.	
4, 6, 8	1.0	0.5	2.0	1.0	2.5	1.3	3.6	1.8	4.6	2.3	5.0	2.5	4, 6, 8
10, 12	2.2	1.1	4.3	2.2	5.7	2.8	8.0	4.0	10.5	5.2	11.3	5.7	10, 12
16, 18	5.0	2.5	9.7	4.9	12.7	6.4	18.0	9.0	23.5	11.8	25.5	12.7	16, 18
24	8.2	4.4	17.3	8.7	22.6	11.3	32.0	16.0	41.9	20.9	45.2	22.6	24

**GENERAL NOTES FOR ALL THRUST BLOCKS**

- ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 P.S.I. FOR 24" I.D. PIPE AND SMALLER AND 150 P.S.I. ON 30" I.D. AND LARGER.
- VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (CLASS F) IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THRUST ON THE VERTICAL BEND.
- WALL THICKNESS (T) ASSUMED HERE FOR ESTIMATING PURPOSES ONLY.
- CONCRETE FOR BLOCKING SHALL BE 2000 PSI CONCRETE.
- DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
- CONCRETE BLOCKING SHALL BE IN PLACE A MINIMUM OF 4 DAYS PRIOR TO TESTING THE PIPELINE.



**PLAN**  
N.T.S.



**SECTION X-X**  
N.T.S.

**HORIZONTAL BENDS**

I.D. (IN.)	T. IN.	C 11.25° FT.	C 22.50°+ FT.	E. FT.	DELTA (IN.)	11.25°															DELTA (IN.)
						EARTH			ROCK			G. FT.	THRUST TONS	EARTH			ROCK				
						A. FT.	B. FT.	VOL. C.Y.	A. FT.	B. FT.	VOL. C.Y.			A. FT.	B. FT.	VOL. C.Y.	A. FT.	B. FT.	VOL. C.Y.		
4, 6, 8	0.4	1.5	1.5	0.9	4, 6, 8	0.8	2.0	1.0	1.5	0.1	1.0	1.0	0.1	1.0	1.0	0.1	4, 6, 8				
10, 12	0.6	1.5	1.5	1.2	10, 12	1.1	4.4	1.5	1.5	0.1	1.0	1.5	0.1	1.5	1.5	0.1	10, 12				
16, 18	0.8	1.5	1.5	1.6	16, 18	1.6	9.9	2.0	2.5	0.3	1.5	2.0	0.2	2.0	2.5	0.3	16, 18				
24	0.9	1.5	1.5	1.6	24	2.2	17.7	3.0	3.5	0.5	1.5	3.0	0.3	3.0	3.5	0.5	24				
DELTA					DELTA												DELTA				
4, 6, 8	0.4	1.5	1.5	0.9	4, 6, 8	0.4	5.0	2.0	2.0	0.2	1.5	1.5	0.1	2.0	2.0	0.2	4, 6, 8				
10, 12	0.5	1.5	1.5	1.2	10, 12	0.5	6.5	2.5	2.5	0.3	2.0	2.5	0.3	3.5	2.5	0.5	10, 12				
16, 18	0.6	1.5	1.5	1.6	16, 18	0.6	9.0	3.0	3.5	0.6	2.0	3.5	0.6	4.5	4.0	1.0	16, 18				
24	0.9	1.5	1.5	2.1	24	0.9	14.5	4.5	4.5	1.1	3.0	4.5	1.1	8.0	4.0	2.1	24				

**GENERAL NOTES**

- UNPLASTICIZED POLYVINYL CHLORIDE (PVC) WATER PIPE SHALL MEET OR EXCEED REQUIREMENTS OF AWWA C900 PVC PIPE WITH CAST IRON OUTSIDE DIMENSIONS. PIPE SHALL BE LISTED BY UNDERWRITER LABORATORIES AND SHALL BE APPROVED FOR USE IN CITIES AND TOWNS OF THE STATE OF TEXAS BY THE STATE BOARD OF INSURANCE.
- PVC WATER PIPE SHALL BE FURNISHED WITH A RUBBER RING AT EACH JOINT AND AN INTEGRAL THICKENED BELL AS A PART OF EACH JOINT. THE PIPE CLASS SHALL BE MINIMUM CLASS 200 DR 14 FOR 6-INCH PIPE AND CLASS 150 DR 18 FOR 8-INCH AND LARGER PIPE WHICH REFERS TO THE MAXIMUM HYDROSTATIC PRESSURE IN NORMAL OPERATIONS. LAYING LENGTHS SHALL BE 20 FEET\*\*\*. PIPE AND FITTINGS MUST BE ASSEMBLED WITH A NONTOXIC LUBRICANT.
- ALL FITTINGS FOR PVC WATER PIPE SHALL BE GRAY IRON OR DUCTILE IRON AND SHALL BE CLASS 250 IN ACCORDANCE WITH AWWA C110-77 (ANSI.10).
- UNLESS OTHERWISE SPECIFIED ON PLANS OR SHOWN IN PROFILES, PVC WATER PIPE SHALL BE INSTALLED TO CLEAR ALL UTILITY LINES AND SHALL HAVE A MINIMUM COVER OF 36 INCHES BELOW THE LOWEST GRADE OF THE STREET AS PER CITY CODE.
- 4"-12" RESILIENT SEAT GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C-500.
- A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4' OF VALVE BOX LID.
- DUCTILE IRON OR C-900 PVC PIPE SHALL BE USED FOR VALVE STACKS WITH VALVE BOX CASTING.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



10-24-97

**WATER DETAILS**

**ARAPAHO ROAD**

ADDISON ROAD TO DALLAS NORTH TOLLWAY

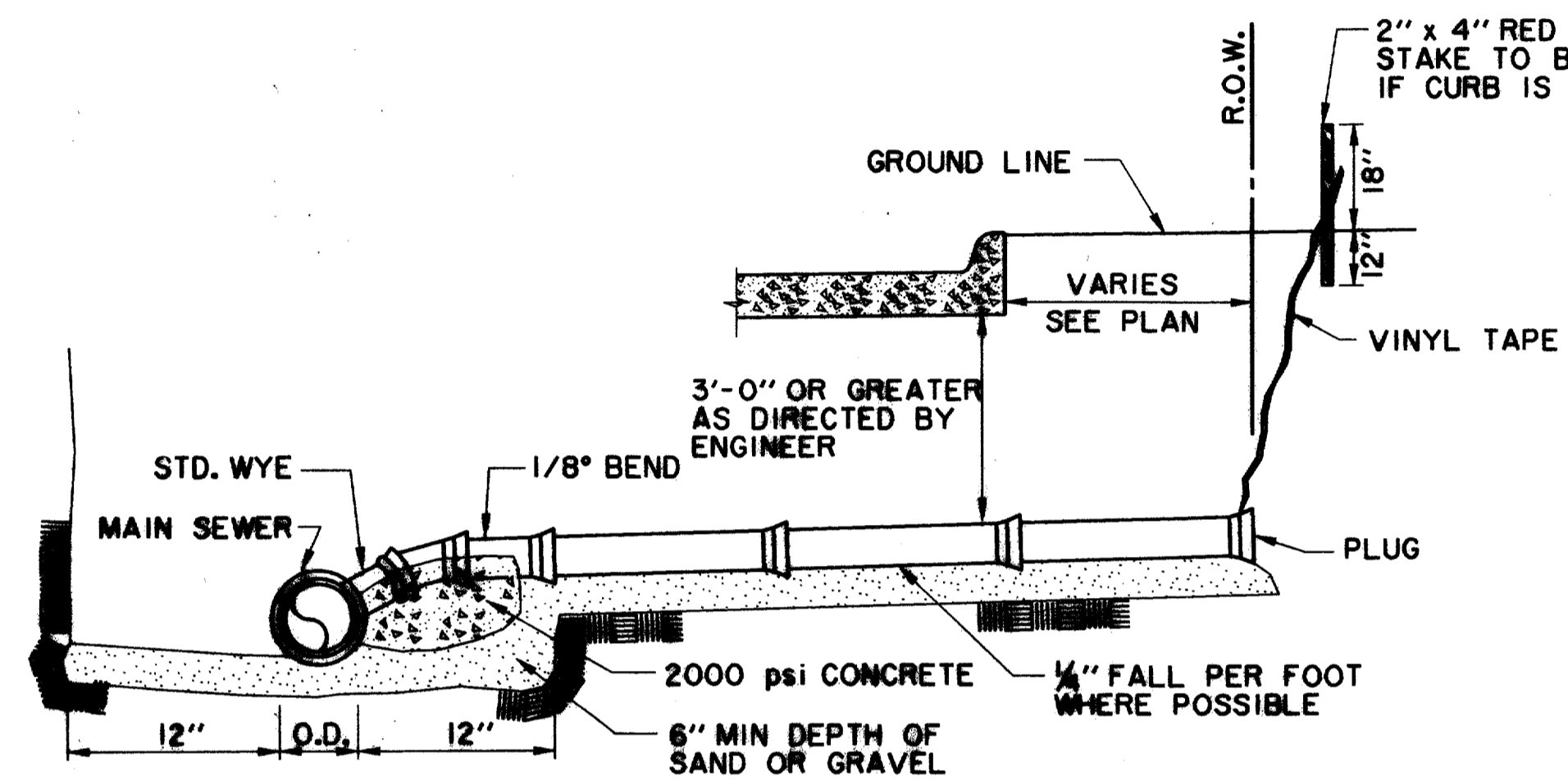
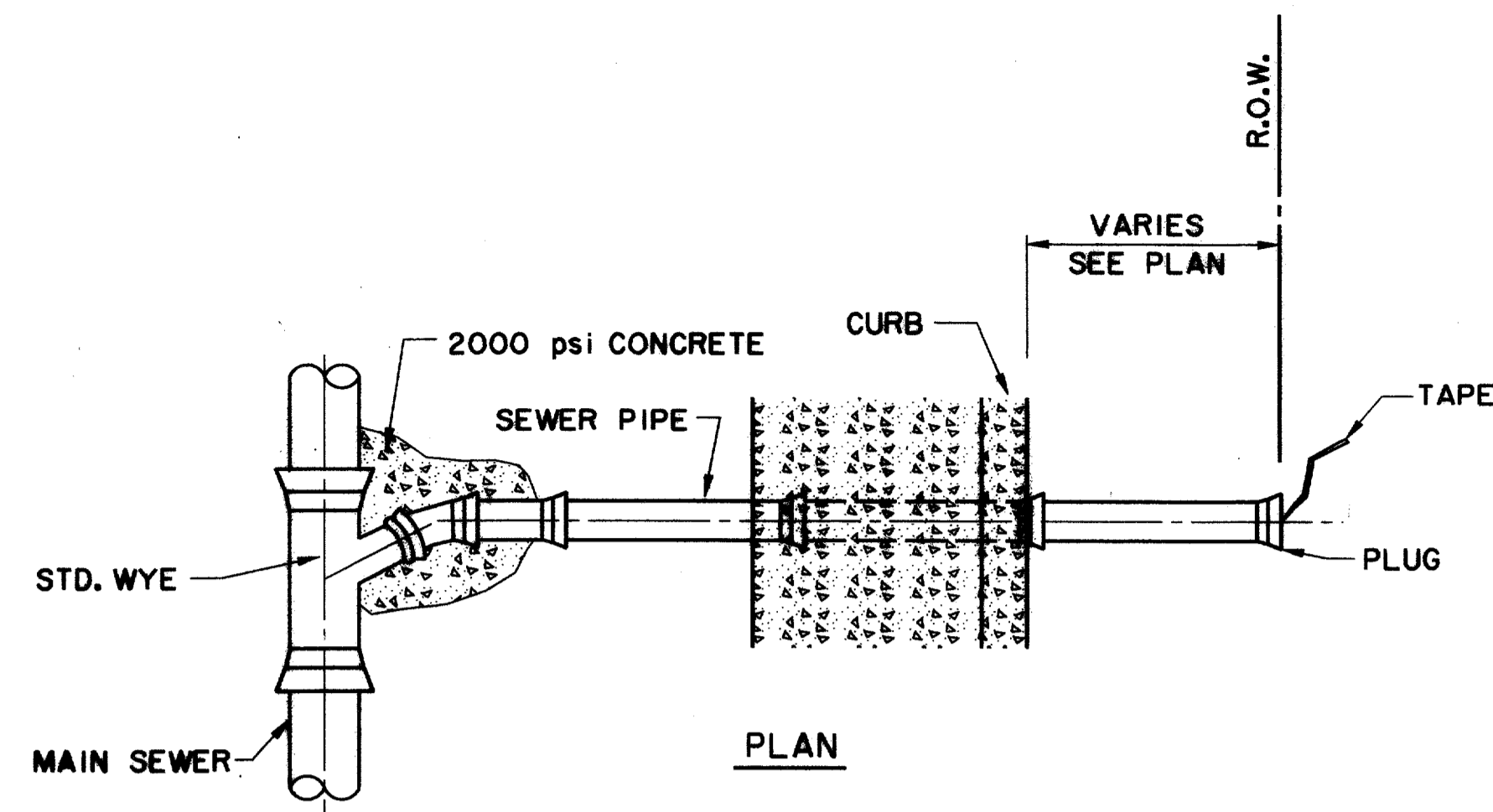
**TOWN OF ADDISON, TEXAS**

Huitt-Zollers, Inc./Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Tustin

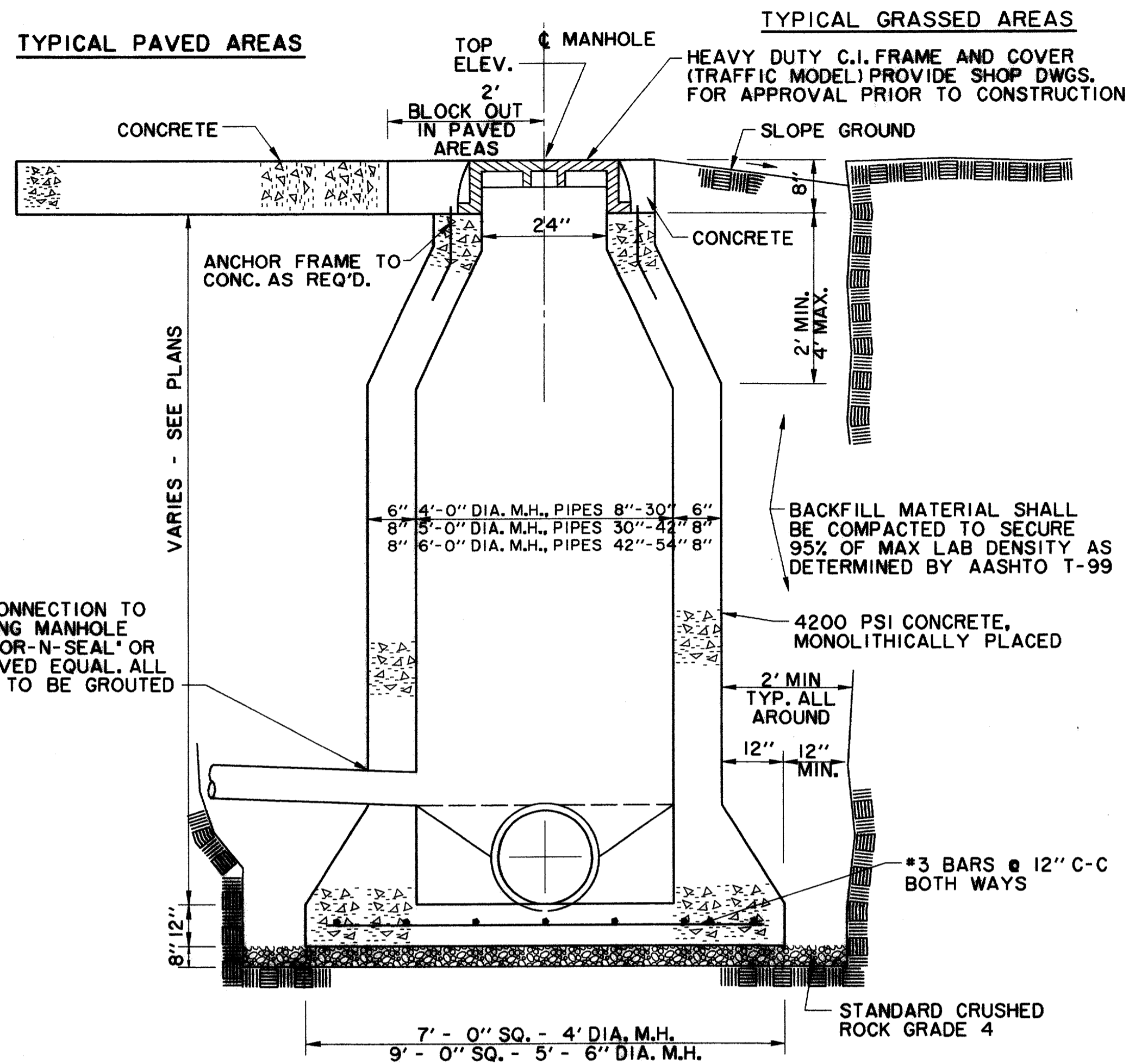
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	N.T.S.	OCT 97	1772-01	W-9

RECORD DOCUMENTS 6/9/2000

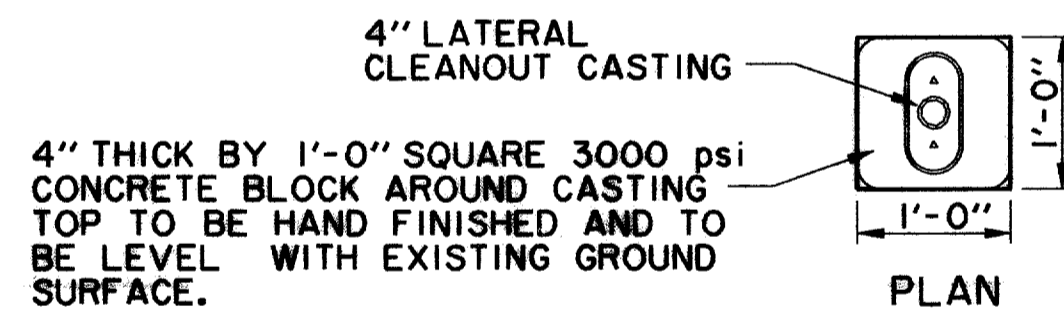
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



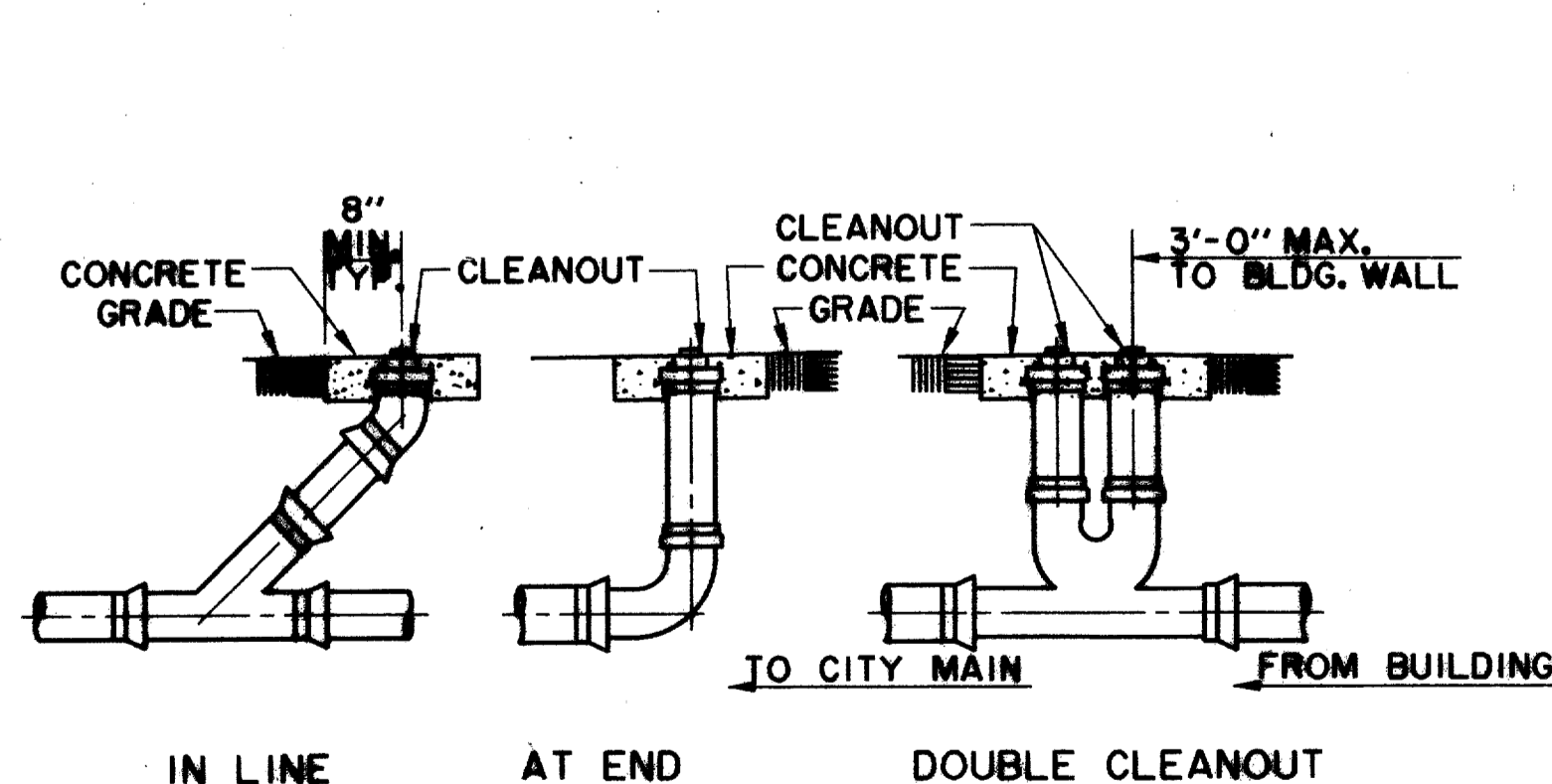
**SANITARY SEWER SERVICE CONNECTION**  
NTS



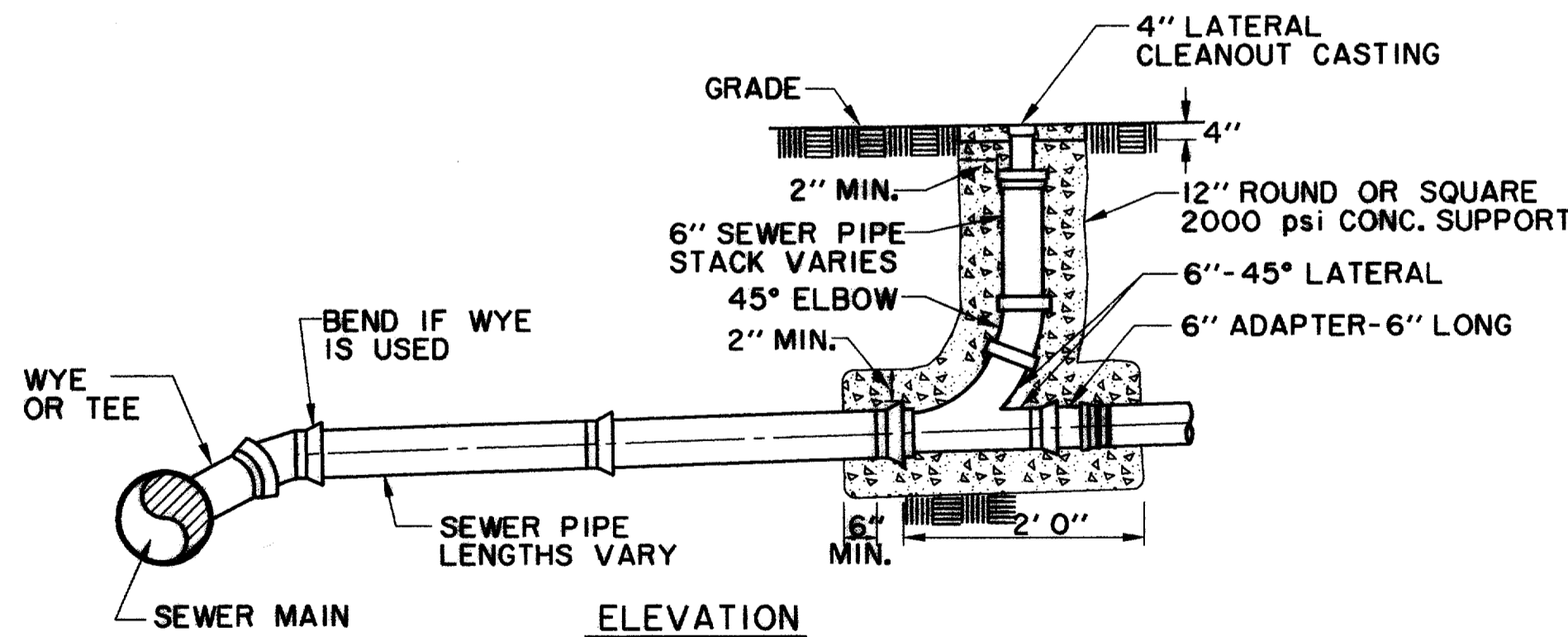
**CAST IN PLACE MANHOLE**  
NOTE:  
KEYWAY WITH P.V.C. WATERSTOP  
REQUIRED AT ALL CONSTRUCTION  
JOINTS



4" THICK BY 1'-0" SQUARE 3000 psi  
CONCRETE BLOCK AROUND CASTING  
TOP TO BE HAND FINISHED AND TO  
BE LEVEL WITH EXISTING GROUND  
SURFACE.



**TYPICAL CLEANOUTS IN NON-PAVED AREAS**



**SANITARY SEWER CLEANOUT DETAIL**  
NTS

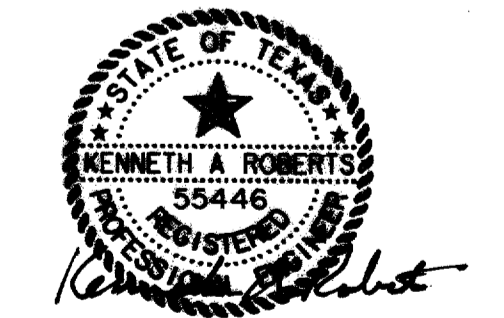
PVC SANITARY SEWER PIPE TO BE SDR 35 OR SDR 26 (AS NOTED ON  
PLANS) WITH INTEGRAL BELL. IT SHALL BE THE RESPONSIBILITY OF THE  
CONTRACTOR TO FIELD LOCATE HORIZONTALLY EACH SERVICE IN RELATION  
TO THE SANITARY SEWER STATIONING.

FIELD TIES ARE TO BE INCLUDED AND RECORDED ON ALUMINIZED  
SANITARY SEWER TAPE. THIS TAPE, GREEN OR RED IN COLOR IS TO BE  
ATTACHED TO THE 6" SERVICE AT THE R.O.W. LINE AND BROUGHT TO  
THE SURFACE TO BE USED AS A PERMANENT MARKER.

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON  
INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS  
NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS  
INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY  
ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A  
RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS  
DOCUMENT WAS AUTHORIZED BY  
KENNETH A. ROBERTS, P.E. 55446  
ON OCTOBER 24, 1997



10-24-97

**WASTEWATER DETAILS**

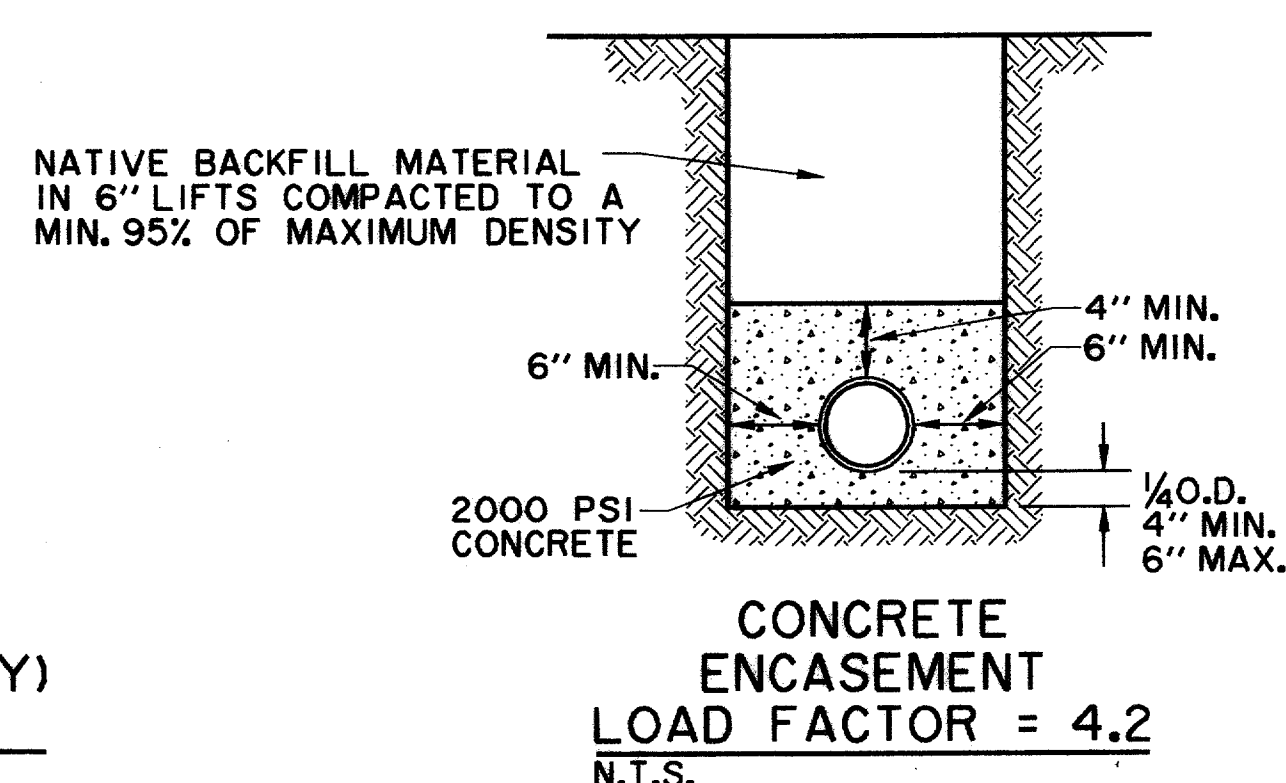
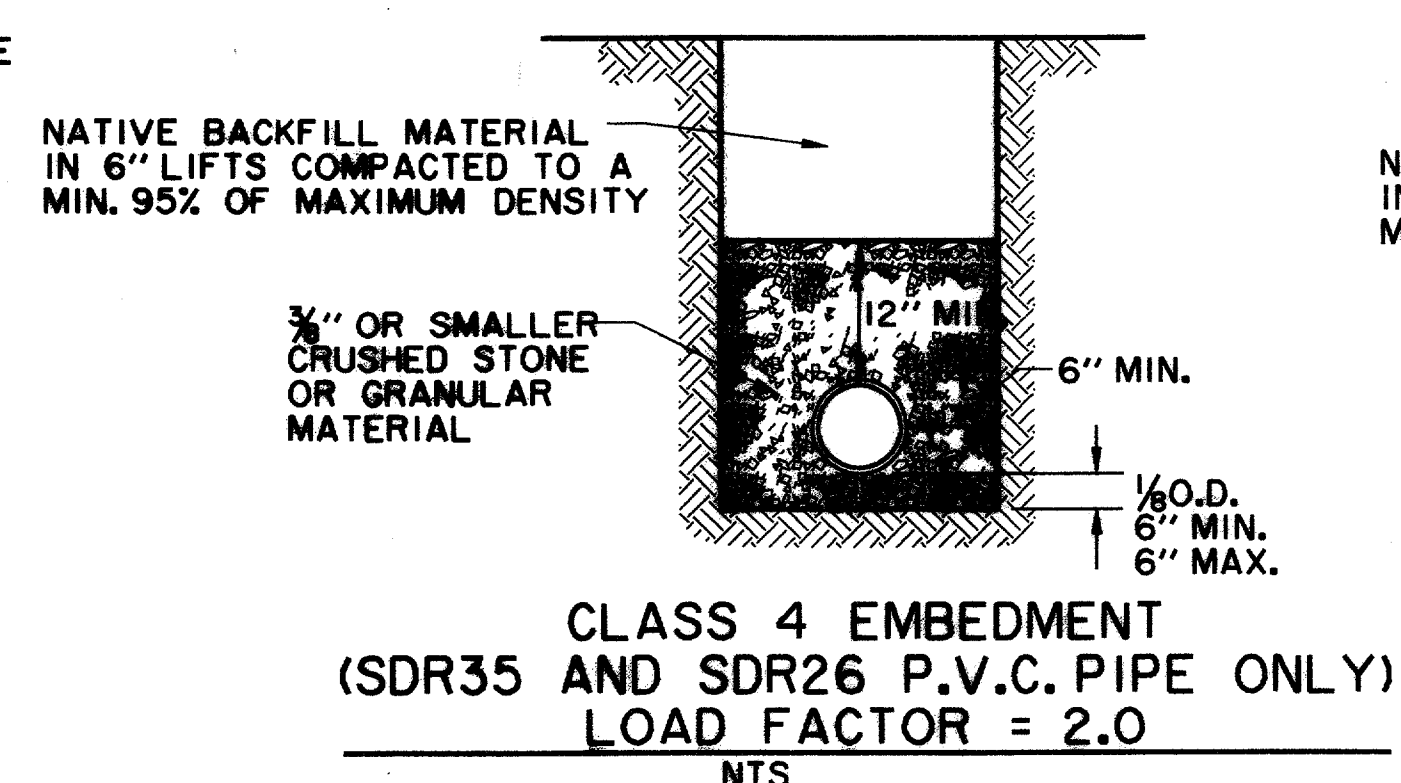
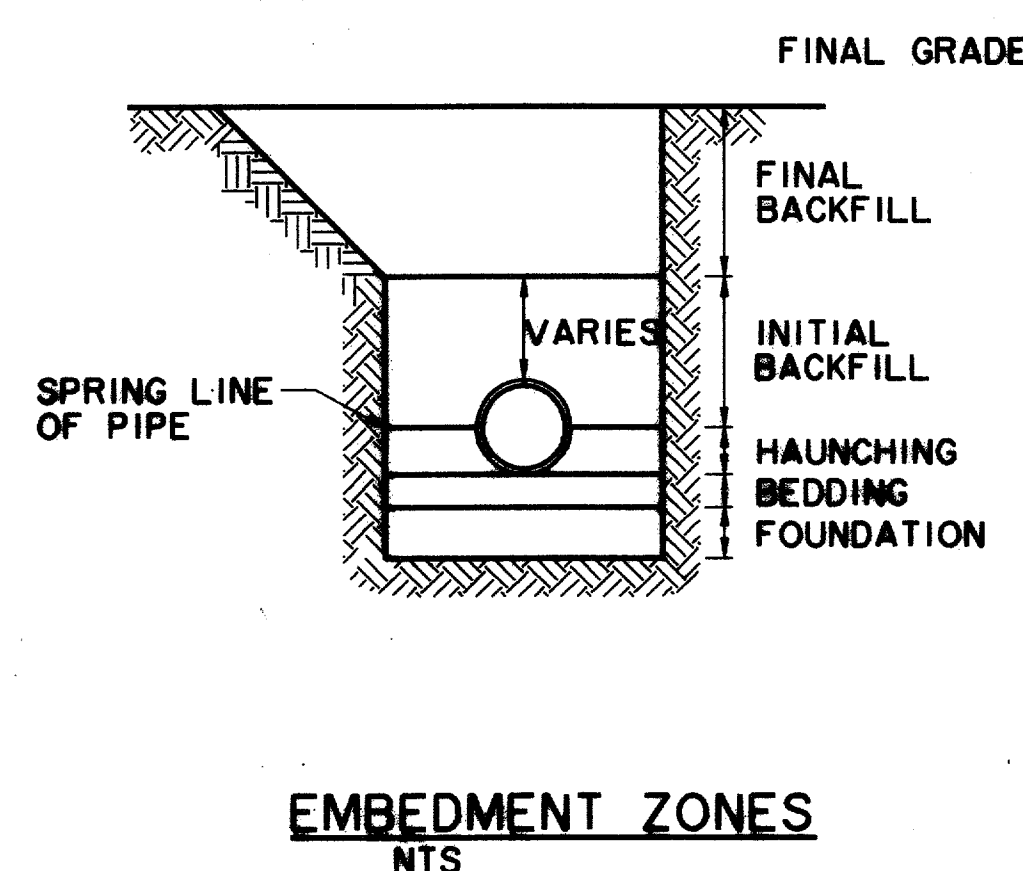
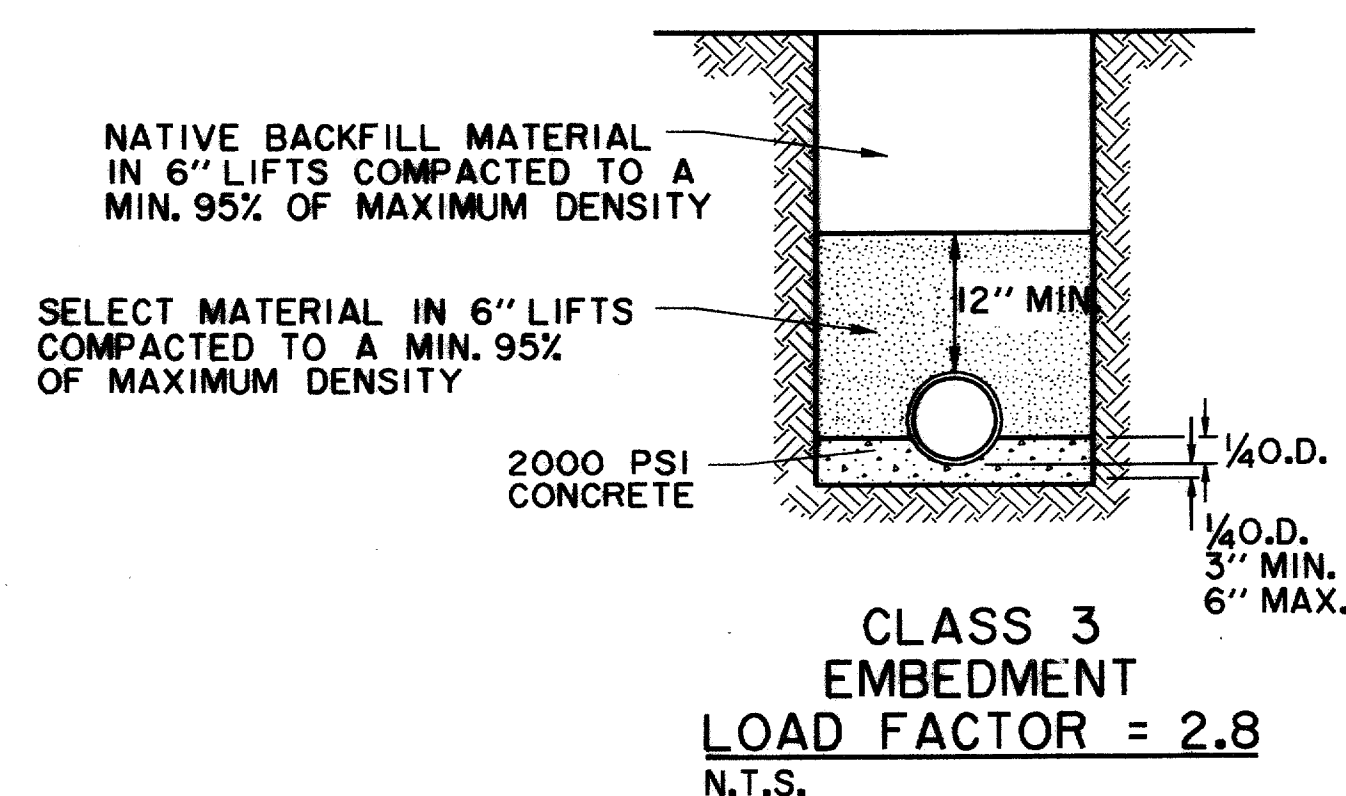
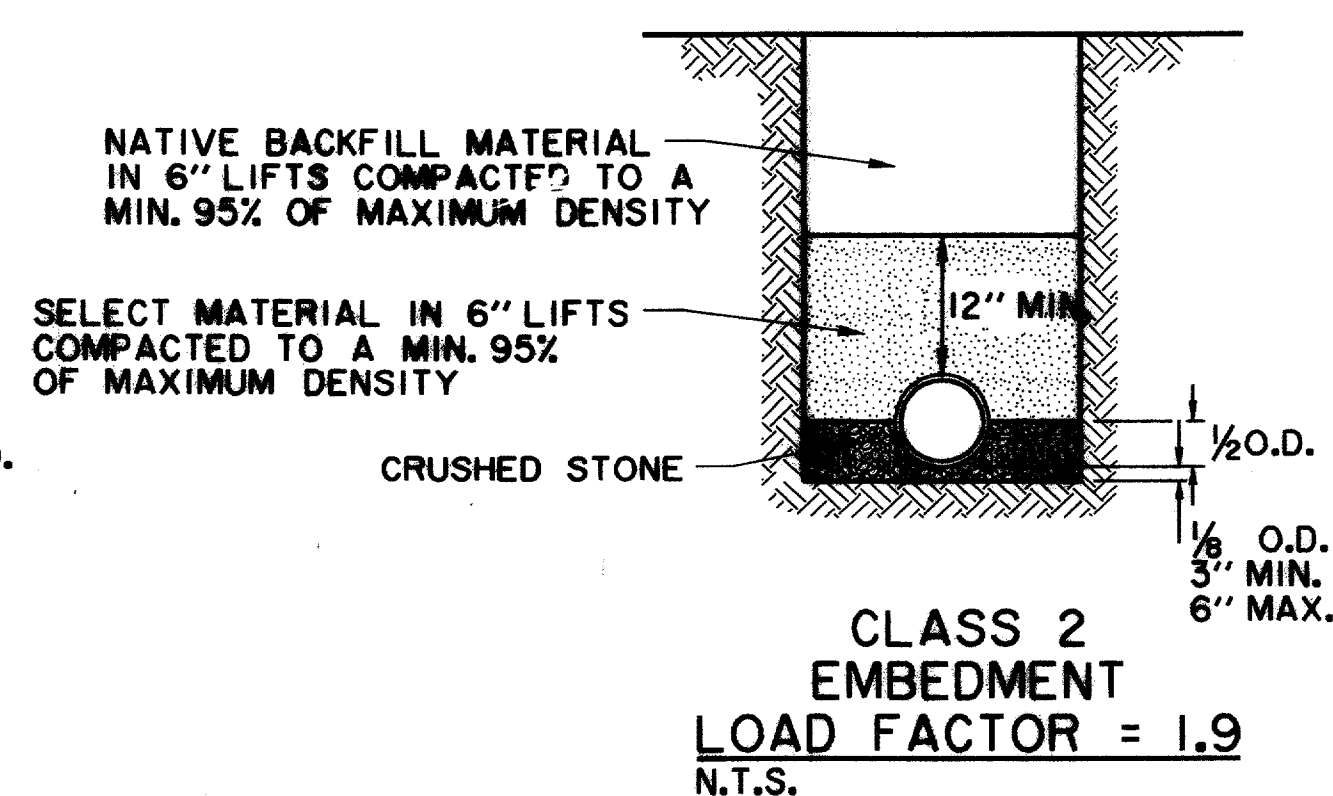
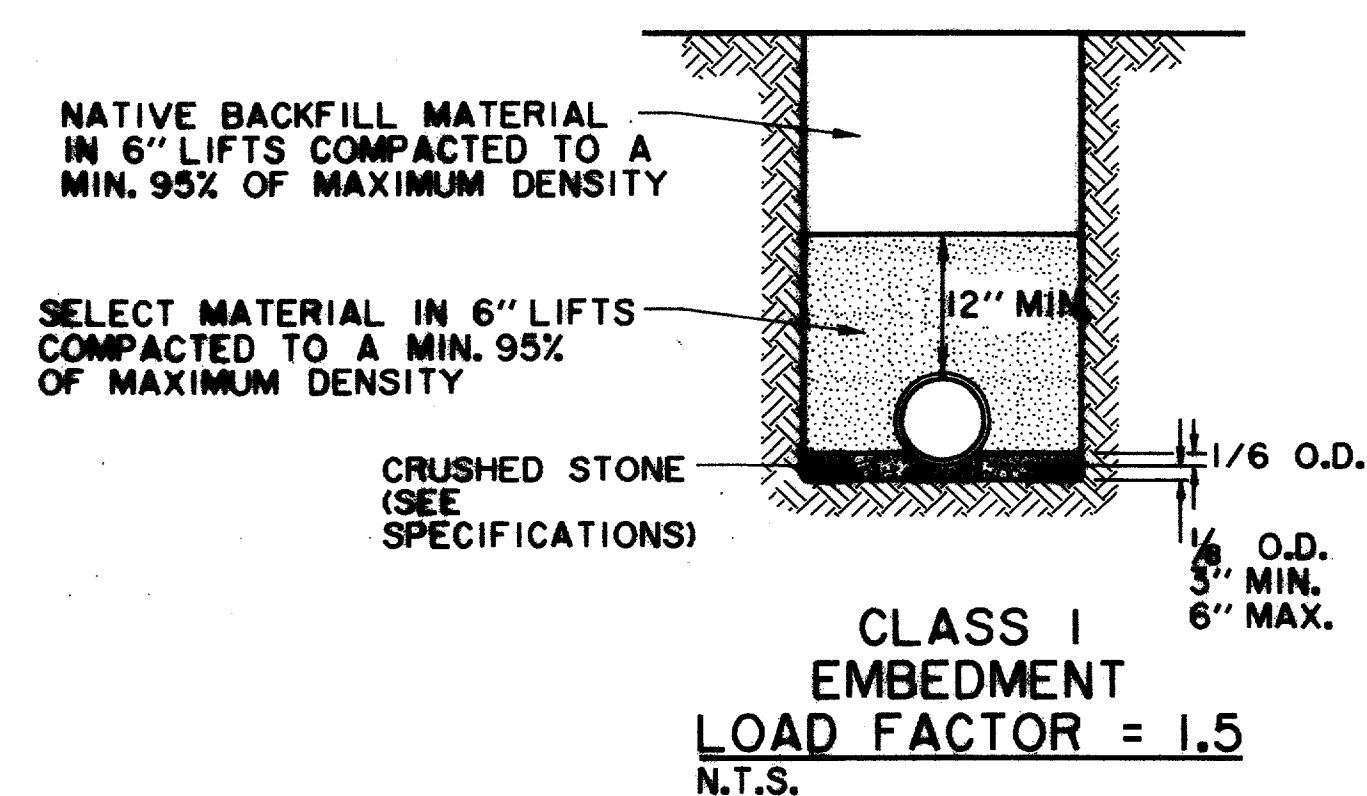
**ARAPAHO ROAD**

ADDISON ROAD TO DALLAS NORTH TOLLWAY

TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Tustin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	N.T.S.	OCT 97	1772-01	W-10



TYPICAL NATIVE MATERIAL COMPACTED TO:  
95% OF STANDARD PROCTOR DENSITY AT  
OPTIMUM MOISTURE 0 TO +3% UNDER PAVEMENT  
95% OF STANDARD PROCTOR DENSITY AT  
OPTIMUM MOISTURE 0 TO +3% OUTSIDE CURB LINES  
JETTING IS NOT ALLOWED  
BACKFILL TO BE COMPACTED IN 6" +/- LIFTS  
TYPICAL NATIVE MATERIAL (MAX. 3" DIA.)

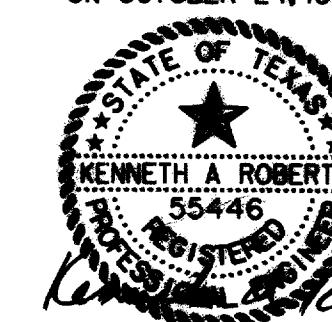
**EMBEDMENT DETAILS FOR SANITARY SEWER**

TABLE OF QUANTITIES OF 2000 psi CONCRETE, GRAVEL OR CRUSHED STONE  
IN CUBIC YARDS PER 100 LINEAR FEET FOR EACH CLASS EMBEDMENT

SIZE OF PIPE IN INCHES I.D.	O.D. OF PIPE IN INCHES	TRENCH WIDTH IN INCHES	TRENCH WIDTH IN FEET	CLASS 1 EMBEDMENT CRUSHED STONE	CLASS 2 EMBEDMENT CONCRETE	CLASS 3 EMBEDMENT CONCRETE	CONCRETE ENCASEMENT
12	16.00	32	2.67	4.1	6.5	4.8	15.8
15	19.50	36	3.00	4.8	7.8	6.4	19.2
18	23.00	39	3.25	5.7	9.2	8.2	21.2
21	26.50	43	3.58	6.9	11.0	10.2	24.9
24	30.00	46	3.83	8.3	13.1	12.4	28.7
27	33.50	51	4.25	10.3	16.1	14.4	32.8
30	37.00	57	4.75	12.7	20.1	17.0	34.8
33	40.50	62	5.17	15.1	23.8	19.3	39.2
36	44.00	67	5.58	18.0	28.6	22.1	43.8

SIZE OF PIPE IN INCHES I.D.	O.D. OF PIPE IN INCHES	TRENCH WIDTH IN INCHES	TRENCH WIDTH IN FEET	CLASS 4 EMBEDMENT CRUSHED STONE	CONCRETE ENCASEMENT
6	6.28	24	2.00	8.0	11.7
8	8.16	24	2.00	8.7	12.4
10	10.20	26	2.18	10.2	14.2
12	12.24	28	2.35	11.7	15.9
16	15.30	31	2.61	14.0	18.8
24		36	3.0		
30		42	3.5		

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



10-24-97

**WASTEWATER DETAILS**

**ARAPAHO ROAD**

ADDISON ROAD TO DALLAS NORTH TOLLWAY

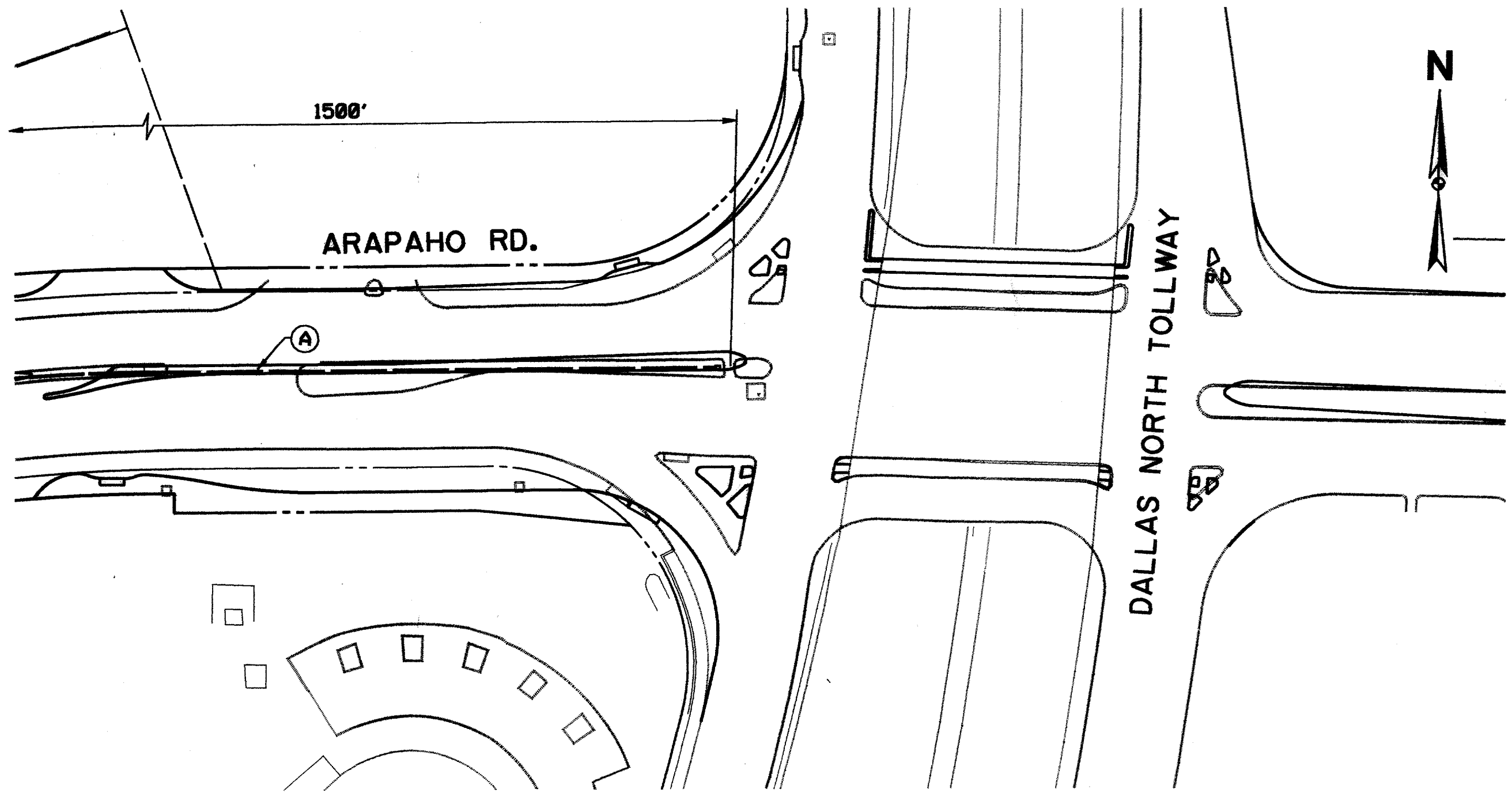
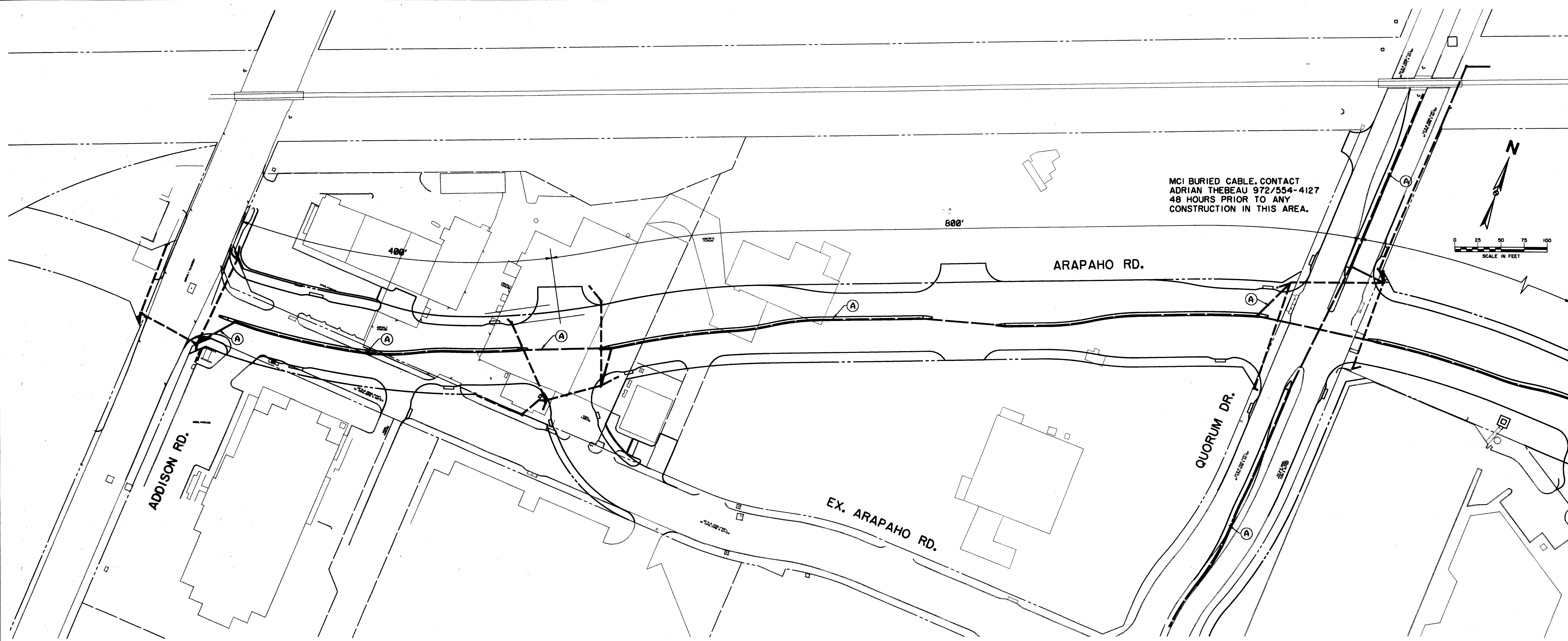
**TOWN OF ADDISON, TEXAS**

Huitt-Zollars, Inc./Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Austin

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	N.T.S.	OCT 97	1772-01	W-11

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



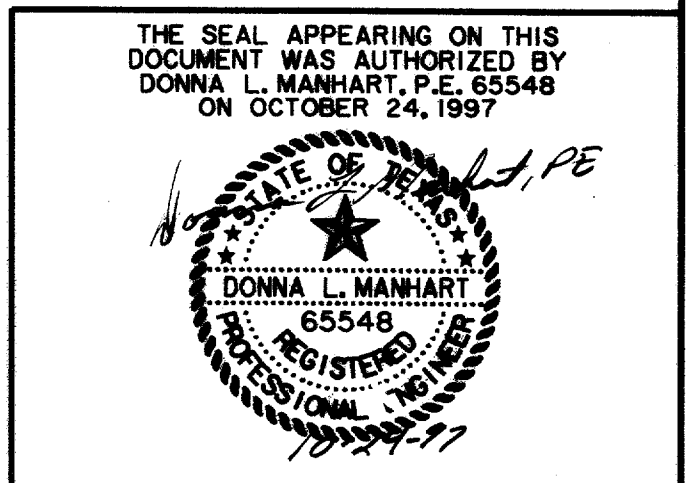
**LEGEND**

- PROPOSED CONTROLLER
- PROPOSED SIGNAL CONDUIT
- ..... FUTURE SIGNAL CONDUIT
- PROPOSED PULL BOX
- 2" SCH40 PVC INTERCONNECT

**INTERCONNECT CONDUIT**

RUN	SCH 40 PVC (INCH)	LENGTH (FEET)	PULL BOX (EACH)
A	2"	2720	16

SEE SIGNAL LAYOUT SHEETS FOR SIGNAL CONDUIT RUNS TO CONTROLLER



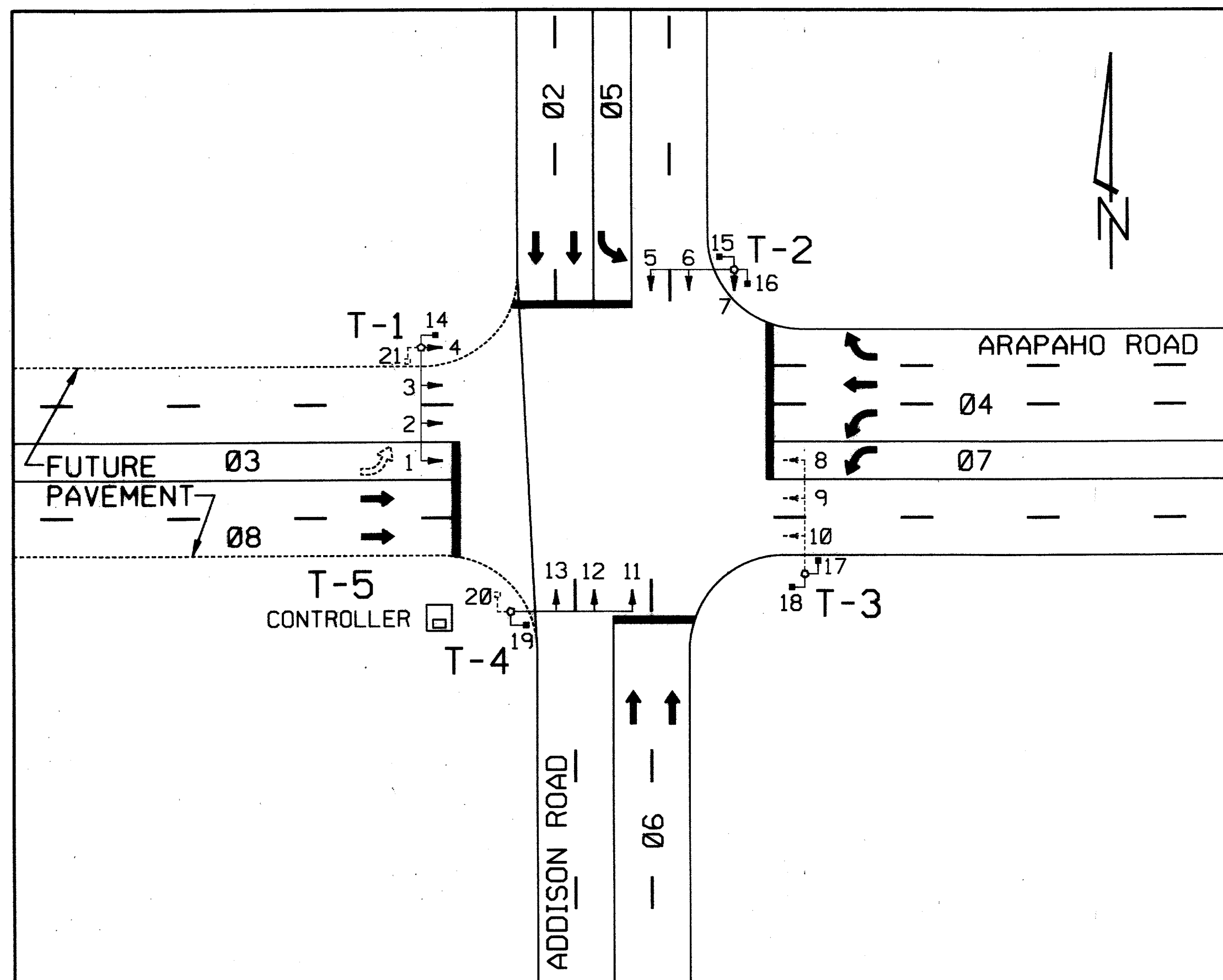
<b>INTERCONNECT LAYOUT</b>						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DLM	1"=50'	OCT 97	1772-01	S-1

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

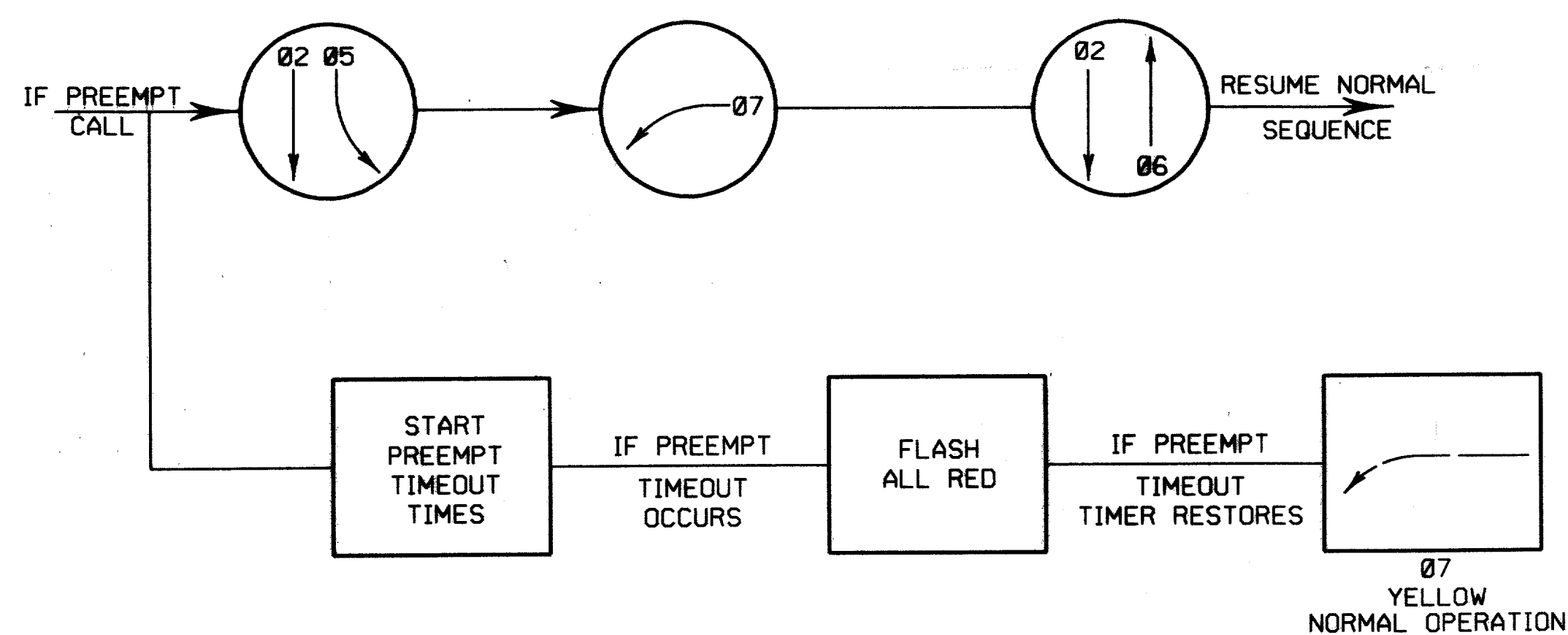




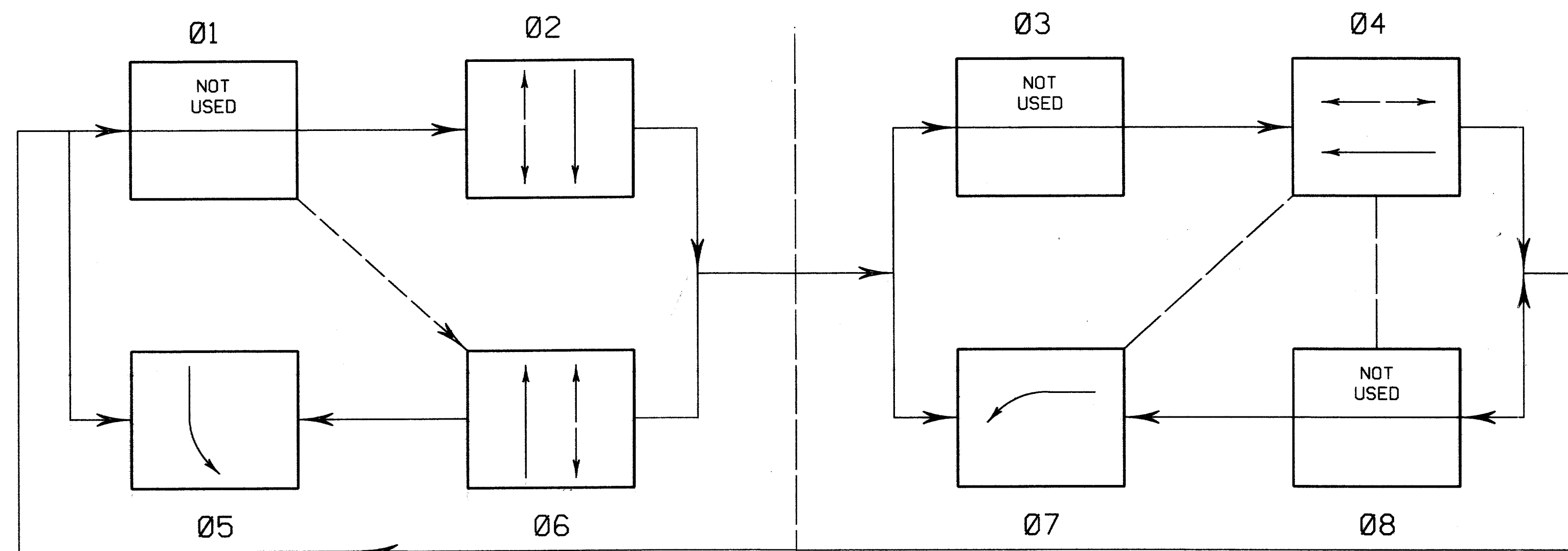


SIGNAL FACES																				
1	2	3	4	5	6	7	8*	9*	10*	11	12	13	14	15	16	17	18	19	20	21
R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	W	W	W	W	W	W	W	W
G	G	G	G	G	G	G	G	G	G	G	G	G								
-8	-8			-8	-8			-8												

\* FUTURE SIGNAL HEADS

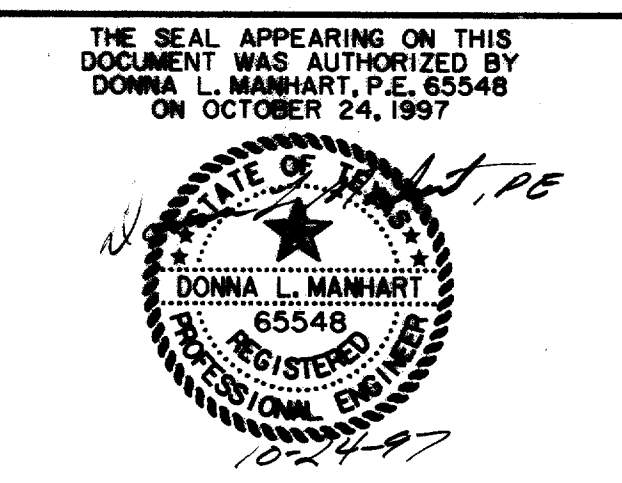


RAILROAD PRE-EMPTION PHASING DIAGRAM



PHASE 4 RIGHT TURN WILL OVERLAP WITH PHASE 5  
 PHASE 5 IS PROTECTED  
 PHASE 6 RIGHT TURN WILL OVERLAP WITH PHASE 7

COMPATIBILITY LINE



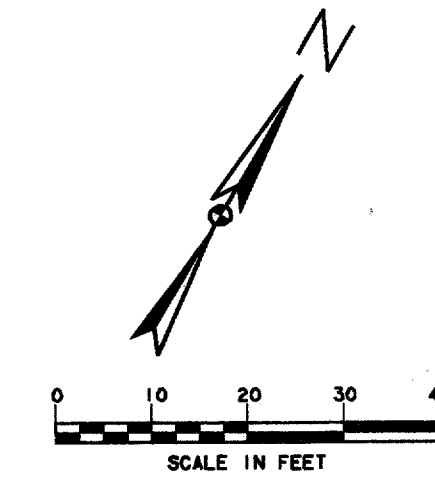
PHASE DIAGRAM						
ARAPAHO ROAD & ADDISON ROAD						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Hult-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DLM	NTS	OCT 97	1772-01	S-3

RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

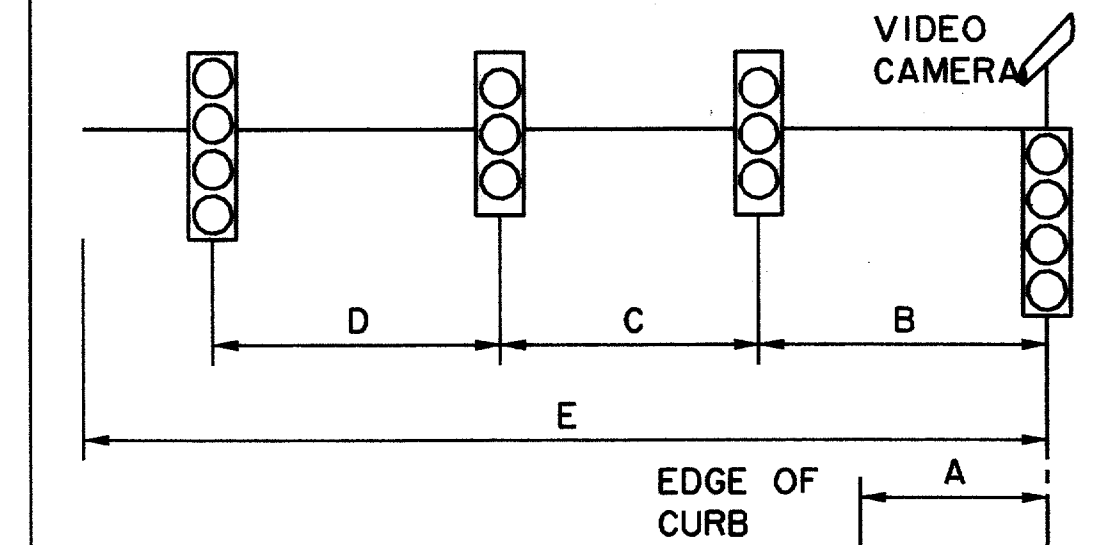
CABLE TERMINATION CHART								
CABLE CONDUCTOR	T-1		T-2		T-3		T-4	
	S.H. NO.	INDICATION	S.H. NO.	INDICATION	S.H. NO.	INDICATION	S.H. NO.	INDICATION
WHITE/BLACK	SPARE		SPARE		SPARE		SPARE	
WHITE	COMMON		COMMON		COMMON		COMMON	
RED	1-4	R	5-7	R	8-11	R	12-14	R
ORANGE	1-4	Y	5-7	Y	8-11	Y	12-14	Y
GREEN	1-4	G	5-7	G	8-11	G	12-14	G
BLUE	1	--G	5	--G	8	--G	12	--G
BLACK	1	--Y	5	--Y	8	--Y	12	--Y
BLUE/BLACK	4	G--	7	G--	11	G--	14	G--
BLACK/WHITE	4	Y--	7	Y--	11	Y--	14	Y--
GREEN/BLACK	22	W	16	W	18	W	20	W
GREEN/WHITE	15	W	17	W	19	W	21	W
RED/BLACK	22	DW	16	DW	18	DW	20	DW
RED/WHITE	15	DW	17	DW	19	DW	21	DW
ORANGE/BLACK	PB22	02	PB16	4	PB18	06	PB20	08
BLUE/WHITE	PB15	04	PB17	06	PB19	08	PB21	02
BLACK/RED	P.B. COM		P.B. COM		P.B. COM		P.B. COM	

RUN NO.	SIZE/TYPE CONDUIT	CABLE TYPE					LENGTH OF CONDUIT	FINAL
		2 CNDR. #6 XHHW WIRE POWER	#6 BARE WIRE GROUND	COAX CABLE	4 CNDR. #20 CABLE OPT	16 CNDR. CABLE		
*A	2" PVC							
B	4" PVC		68	136	136	136	136	62
C	3" PVC		30	15	15	15	15	9
D	3" PVC		98	98	98	98	98	92
E	3" PVC		10	10	10	10	10	4
F	3" PVC		52	26	26	26	26	20
G	3" PVC		96	96	96	96	96	90
H	3" PVC		30	30	30	30	30	24
I	2" PVC		20	20				14
J	2-3" PVC		14	42	56	56	56	8

\* SEE INTERCONNECT LAYOUT FOR 2" PVC QUANTITIES AND ALIGNMENT

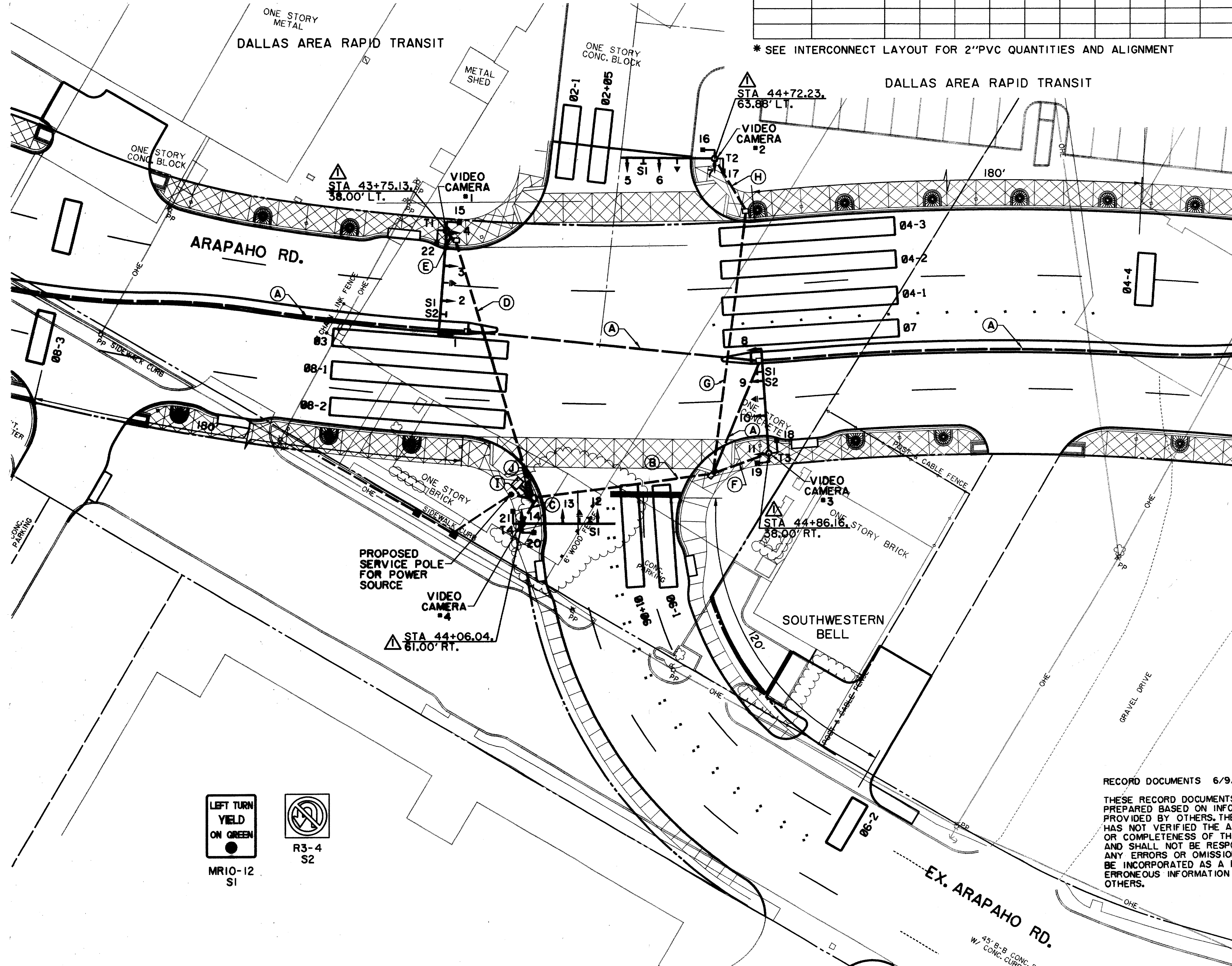


### SIGNAL HEAD AND POLE PLACEMENT



SIGNAL HEAD AND POLE PLACEMENT (FEET)					
POLE NUMBER	A	B	C	D	E
T-1	6	12	12	12	36
T-2	8	19	13	-	32
T-3	6	6	12	12	36
T-4	8	14	14	-	32

QUANTITIES			
ITEM	UNIT	QTY.	
<b>CONDUIT</b>			
1-3" TRENCH	L.F.	255	
1-2" TRENCH	L.F.	14	
1-4" TRENCH	L.F.	62	
PULL BOX	EA.	4	
VIDEO CAMERA	EA.	4	
3M OPTICOM DETECTOR	EA.	4	
<b>PEDESTRIAN PUSH BUTTON</b>			
	EA.	8	
<b>CABLE WIRE</b>			
7 CONDUCTOR #12	L.F.	285	
5 CONDUCTOR #12	L.F.	393	
16 CONDUCTOR #12	L.F.	467	
3 CONDUCTOR (VIDEO)	L.F.	587	
1 CONDUCTOR #6 GROUND	L.F.	446	
2 CONDUCTOR #6 POWER	L.F.	34	
4 CONDUCTOR OPTICOM	L.F.	638	
COAX CABLE	L.F.	587	
<b>SIGNS</b>			
MR10-12	EA.	4	
R3-4	EA.	2	
<b>FOUNDATIONS</b>			
CONTROLLER	EA.	1	
TYPE 30-A	EA.	4	
<b>POLES:</b>			
SIGNAL PEDESTAL	EA.	-	
MAST ARM POLE	EA.	-	
W/ 32' ARM	EA.	2	
W/ 36' ARM	EA.	2	
<b>SIGNAL HEADS:</b>			
4 SECTION 12" LENS	EA.	8	
3 SECTION 12" LENS	EA.	6	
2 SECTION PEDESTRIAN	EA.	8	
<b>INSTALL TUE SUPPLIED</b>			
PEDESTAL POLE & METER	L.S.	1	



### SIGNAL HEADS

NO	TYPE	PHASE	BACKPLATE		12' VEH SEC	PED SIG SEC
			3 SEC	4 SEC		
1	V4LT	07		1	4	
2	V3	04	1		3	
3	V3	04	1		3	
*4	V4RT	04		1	4	
5	V4LT	01+06		1	4	
6	V3	06	1		3	
*7	V4RT	06		1	4	
8	V4LT	03		1	4	
9	V3	08	1		3	
10	V3	08	1		3	
*11	V4RT	08		1	4	
12	V4LT	02+05		1	4	
13	V3	02	1		3	
*14	V4RT	02		1	4	
15,16	PED	04P				2
17,18	PED	06P				2
19,20	PED	08P				2
21,22	PED	02P				2
<b>TOTALS</b>			<b>6</b>	<b>8</b>	<b>50</b>	<b>8</b>

\*FIBER OPTIC SIGNAL

### LEGEND

- PROPOSED PEDESTRIAN SIGNAL
- H CONDUIT RUN NUMBER
- 8 SIGNAL HEAD NUMBER
- ↓ PROPOSED SIGNAL HEAD
- PROPOSED SIGNAL CONDUIT
- PROPOSED PULL BOX
- EXISTING PULL BOX
- T3 PROPOSED SIGNAL POLE
- T LEFT TURN ON ARROW SIGN
- ↑ OPTICOM
- DETECTION ZONE FOR VIDEO
- TUE SWITCHGEAR
- TUE PEDESTAL POLE & METER

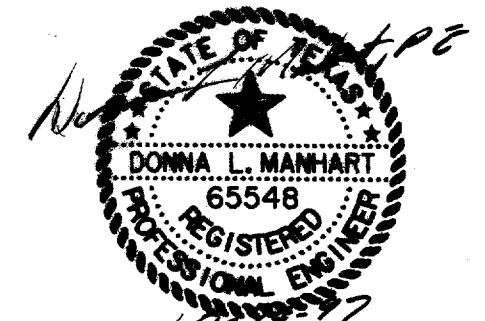
### NOTES:

- ALL CABLE SHALL BE RUN CONTINUOUSLY WITHOUT SPLICES.
- SEE INTERCONNECT LAYOUT SHEET FOR 2" PVC RUN A ALIGNMENT AND SUMMARY.
- CONTRACTOR SHALL CONTACT TU ELECTRIC TO COORDINATE DISCONNECT AND RECONNECT OF EXISTING STREET LIGHT CIRCUIT. CONTRACTOR SHALL INSTALL NEW FOUNDATION, CONDUIT AND CONDUCTOR IF NECESSARY TO RELOCATE SERVICE POLE.
- VIDEO CAMERAS SHALL BE MOUNTED ON TOP OF SIGNAL POLE AND AIMED IN THE SAME DIRECTION AS SIGNAL HEADS AND ALIGNED TO DETECT ZONES SHOWN ON THIS SHEET.
- STREET NAME SIGNS WILL BE INSTALLED BY THE TOWN OF ADDISON.
- TUE WILL PROVIDE PEDESTAL & METER FOR CONTRACTOR TO INSTALL.

RECORD DOCUMENTS 6/9/2000

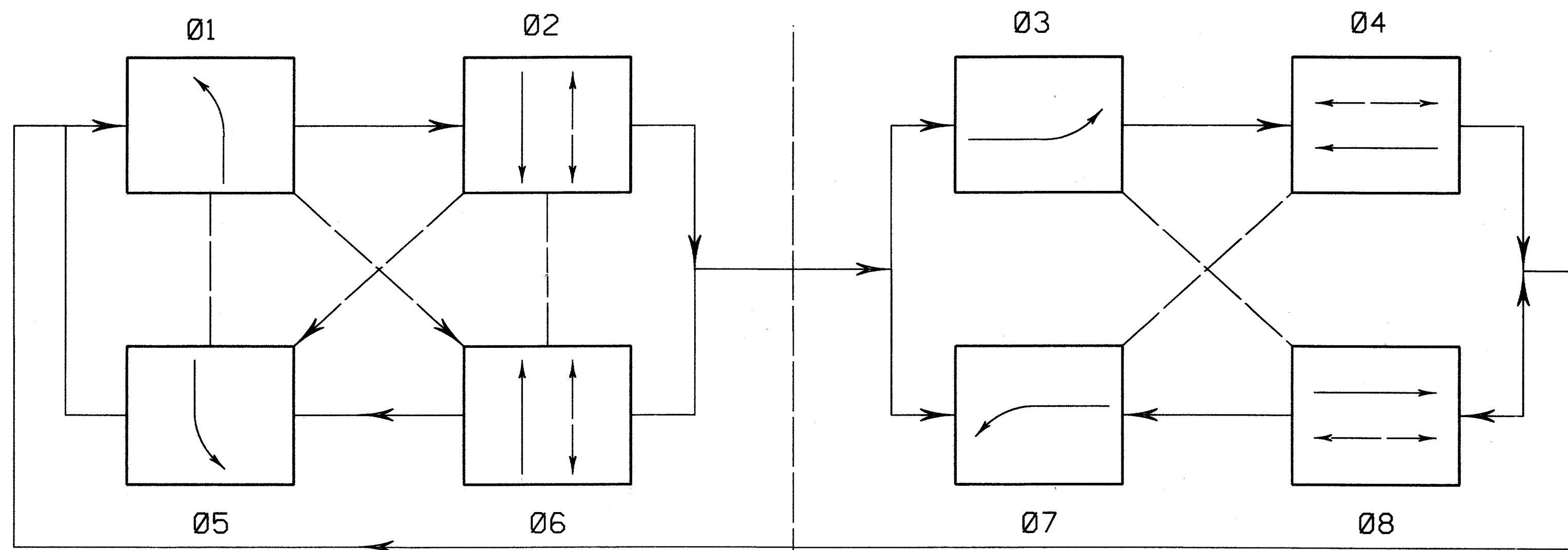
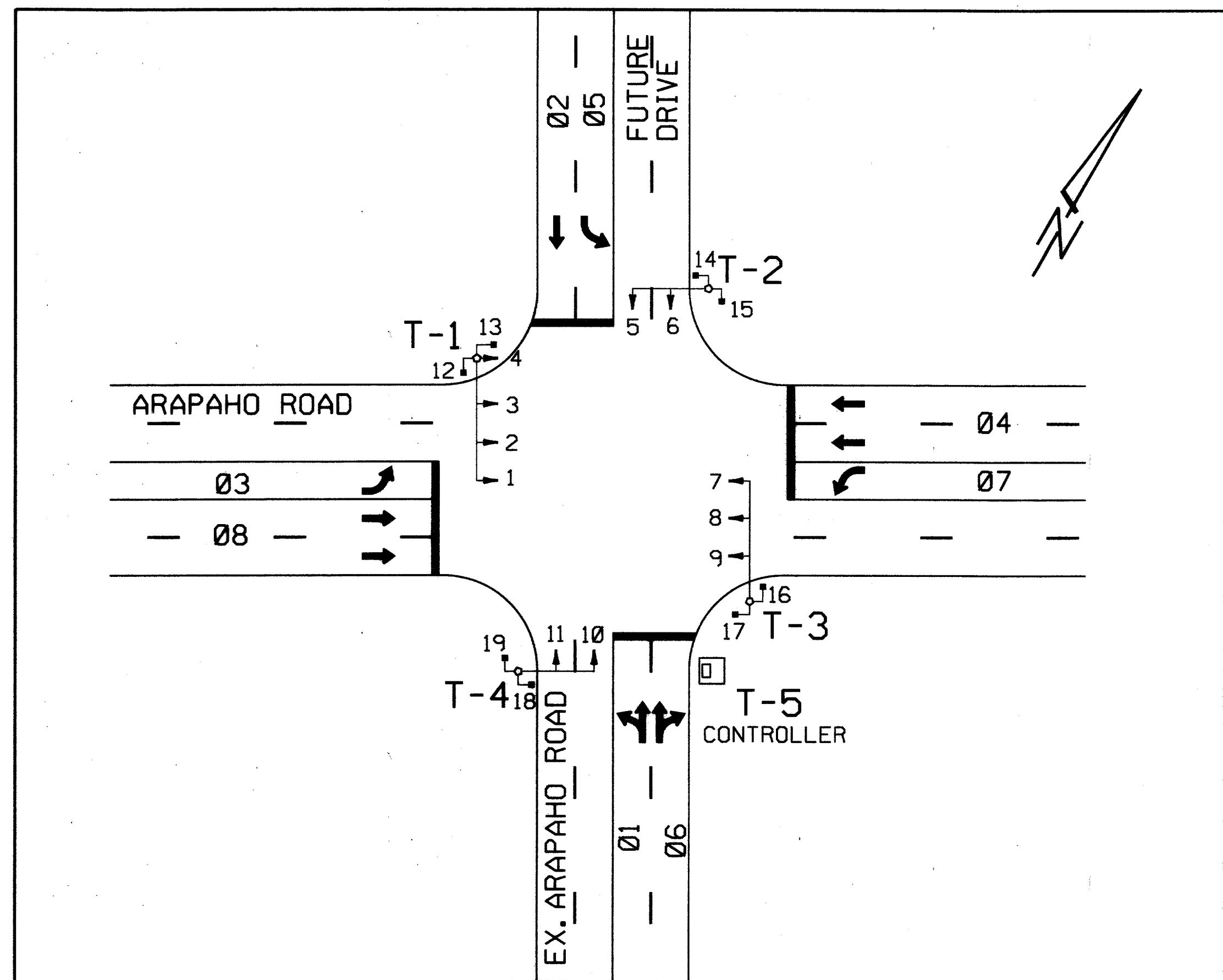
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DONNA L. MANNHART, P.E. 65548 ON OCTOBER 24, 1997



REVISD  
3/16/98

SIGNALIZATION PLAN							
ARAPAHO ROAD & EXISTING ARAPAHO ROAD							
ARAPAHO ROAD							
ADDISON ROAD TO DALLAS NORTH TOLLWAY							
TOWN OF ADDISON, TEXAS							
Huitt-Zollars, Inc./Consulting Engineers							
Dallas, Fort Worth, Houston, Phoenix, Tustin							
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.	
HZI	HZI	DLM	1"=20'	OCT 97	1772-01	S-4	

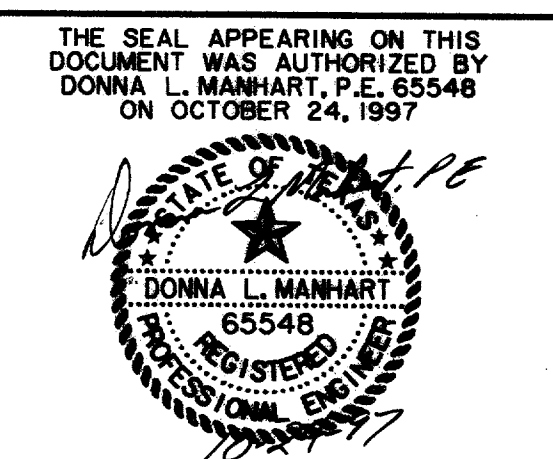


PHASE 2 RIGHT TURN WILL OVERLAP WITH PHASE 7  
 PHASE 4 RIGHT TURN WILL OVERLAP WITH PHASE 1  
 PHASE 6 RIGHT TURN WILL OVERLAP WITH PHASE 3  
 PHASE 8 RIGHT TURN WILL OVERLAP WITH PHASE 5

COMPATIBILITY LINE

SIGNAL FACES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	W	W	W	W	W	W	W	W
G	G	G	G	G	G	G	G	G	G	G	G	G	G								
-8				-8	-8	-8	-8			-8	-8	-8									



**PHASE DIAGRAM**  
**ARAPAHO ROAD AT EXISTING ARAPAHO ROAD**  
**ARAPAHO ROAD**  
 ADDISON ROAD TO DALLAS NORTH TOLLWAY  
 TOWN OF ADDISON, TEXAS  
 Huitt-Zollars, Inc./Consulting Engineers  
 Dallas, Fort Worth, Houston, Phoenix, Tustin

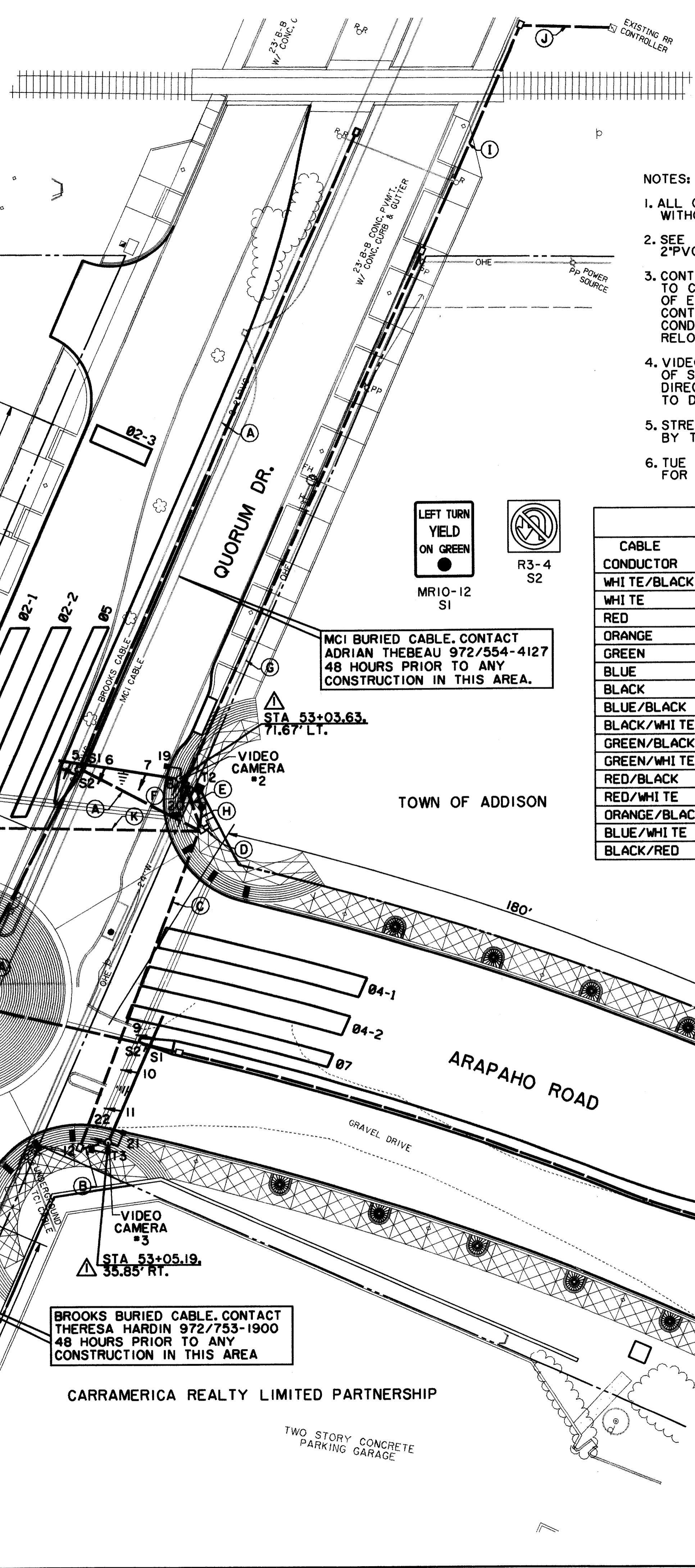
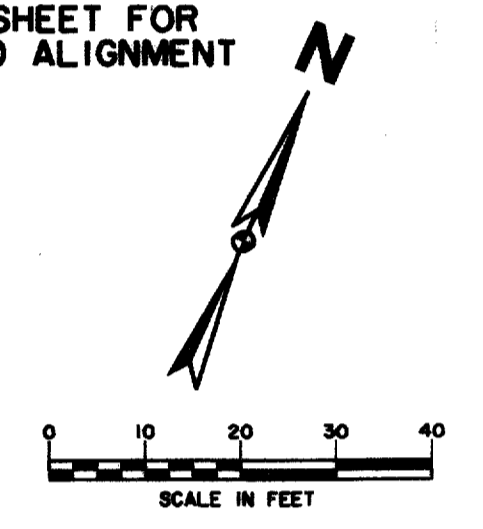
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DLM	NTS	OCT 97	1772-01	S-5

RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

QUANTITIES		
ITEM	UNIT	QTY.
<b>CONDUIT</b>		
1-3" TRENCH	L.F.	269
1-2" TRENCH	L.F.	280
1-4" TRENCH	L.F.	101
PULL BOX	EA.	7
VIDEO CAMERA	EA.	4
3M OPTICOM DETECTOR	EA.	4
<b>PEDESTRIAN PUSH BUTTON</b>		
	EA.	8
<b>CABLE WIRE</b>		
5 CONDUCTOR RR	L.F.	321
7 CONDUCTOR #12	L.F.	307
5 CONDUCTOR #12	L.F.	420
16 CONDUCTOR #12	L.F.	560
COAX CABLE	L.F.	560
1 CONDUCTOR #6 GROUND	L.F.	591
2 CONDUCTOR #6 POWER	L.F.	64
3 CONDUCTOR VIDEO	L.F.	680
4 CONDUCTOR OPTICOM	L.F.	630
<b>SIGNS</b>		
MR10-12	EA.	4
R3-4	EA.	4
<b>FOUNDATIONS</b>		
CONTROLLER	EA.	1
TYPE 30-A	EA.	2
TYPE 30-B	EA.	2
<b>POLES:</b>		
SIGNAL PEDESTAL	EA.	-
MAST ARM POLE	EA.	-
W/ 36' ARM	EA.	2
W/ 40' ARM	EA.	2
<b>SIGNAL HEADS:</b>		
4 SECTION 12" LENS	EA.	8
3 SECTION 12" LENS	EA.	8
2 SECTION PEDESTRIAN	EA.	8
<b>MISCELLANEOUS:</b>		
CONNECT TO RAILROAD GATE CONTROLLER	L.S.	1
INSTALL TUE PEDESTAL & METER	L.S.	1

CONDUIT RUNS										
RUN NO.	SIZE/TYPE CONDUIT	CABLE TYPE							LENGTH OF CONDUIT	FINAL
		2 CND #6 XHHW WIRE POWER	#6 BARE WIRE GROUND	COAX CABLE	4 CNDR. #20 CABLE OPT	16 CNDR. CABLE	3 CNDR. VIDEO	5CND RR		
* A	2" PVC									
B	3" PVC		15	15	15	15	15		9	
C	3" PVC		104	104	104	104	104		98	
D	2-3" PVC	12	36	48	48	48	48	12	6	
E	3" PVC	20	20	20	20	20	20	20	14	
F	3" PVC	20	10	10	10	10			4	
G	2" PVC							176	170	
H	2" PVC	16	16						10	
I	2" PVC	80						80	74	
J	2" PVC	32							32	26
K	4" PVC	107	214	214	214	214			101	
L	3" PVC	24	12	12	12	12			7	
M	3" PVC	126	126	126	126	126			120	
N	3" PVC	11	11	11	11	11			5	

\* INTERCONNECT  
 \*\*SEE INTERCONNECT LAYOUT SHEET FOR INTERCONNECT QUANTITY AND ALIGNMENT

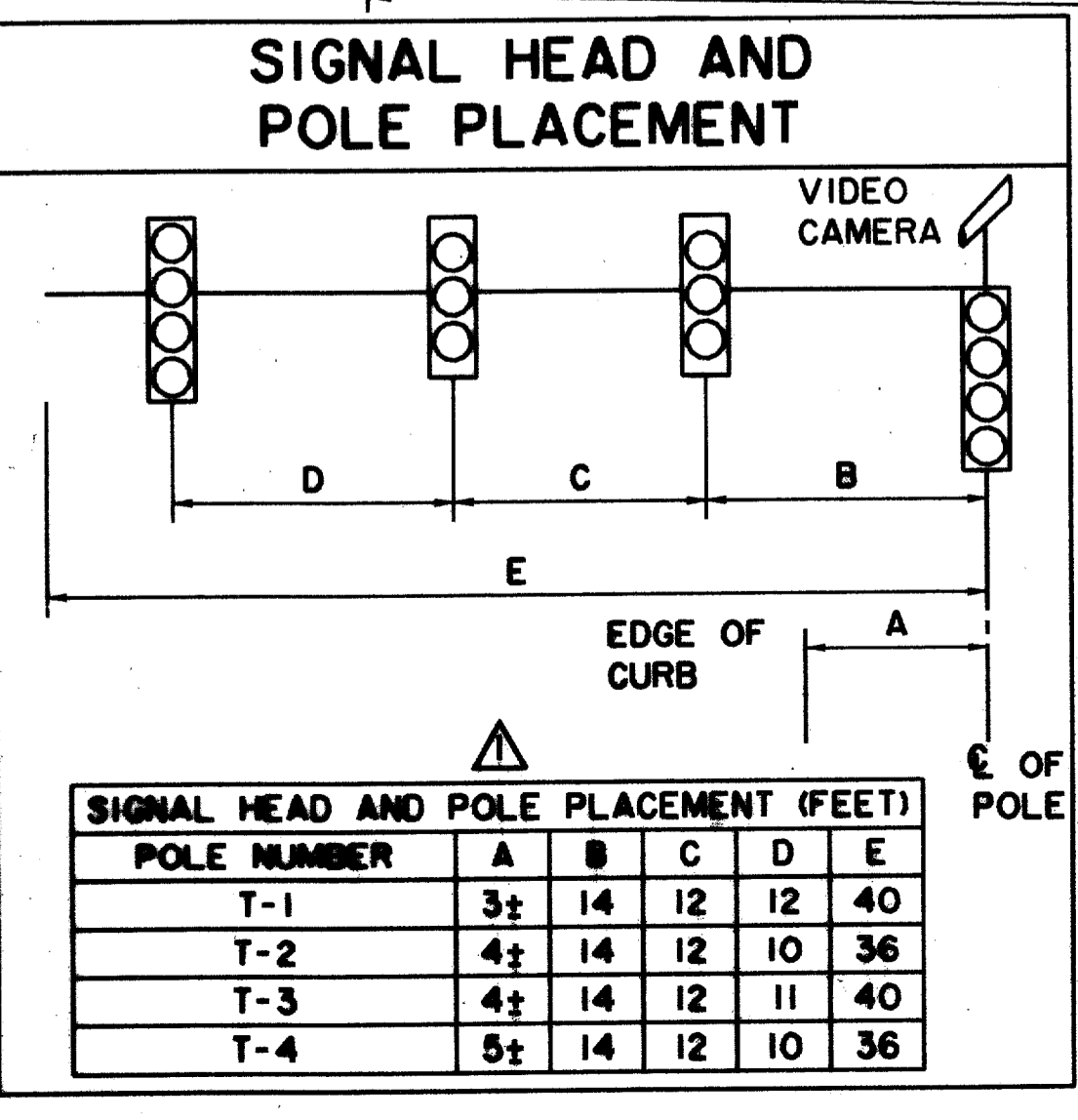


SIGNAL HEADS						
NO	TYPE	PHASE	BACKPLATE		12" VEH SEC	PED SIG SEC
			3 SEC	4 SEC		
1	V4LT	07			4	
2	V3	04			3	
3	V3	04			3	
4	V4RT	04			4	
5	V4LT	01			4	
6	V3	06			3	
7	V3	06			3	
8	V4RT	06			4	
9	V4LT	03			4	
10	V3	08			3	
11	V3	08			3	
12	V4RT	08			4	
13	V4LT	05			4	
14	V3	02			3	
15	V3	02			3	
16	V4RT	02			4	
17,24	PED	02P				2
18,19	PED	04P				2
20,21	PED	06P				2
22,23	PED	08P				2
TOTALS			8	8	56	8

- NOTES:
- ALL CABLE SHALL BE RUN CONTINUOUSLY WITHOUT SPLICES.
  - SEE INTERCONNECT LAYOUT SHEET FOR 2" PVC RUN ALIGNMENT AND SUMMARY.
  - CONTRACTOR SHALL CONTACT TU ELECTRIC TO COORDINATE DISCONNECT AND RECONNECT OF EXISTING STREET LIGHT CIRCUIT. CONTRACTOR SHALL INSTALL NEW FOUNDATION, CONDUIT AND CONDUCTOR IF NECESSARY TO RELOCATE SERVICE POLE.
  - VIDEO CAMERAS SHALL BE MOUNTED ON TOP OF SIGNAL POLE AND AIMED IN THE SAME DIRECTION AS SIGNAL HEADS AND ALIGNED TO DETECT ZONES SHOWN ON THIS SHEET.
  - STREET NAME SIGNS WILL BE INSTALLED BY THE TOWN OF ADDISON.
  - TUE WILL PROVIDE PEDESTAL & METER FOR CONTRACTOR TO INSTALL.

CABLE TERMINATION CHART									
CABLE CONDUCTOR	T-1		T-2		T-3		T-4		INDICATION
	S. H. NO.	INDICATION	S. H. NO.	INDICATION	S. H. NO.	INDICATION	S. H. NO.	INDICATION	
WHITE/BLACK	SPARE		SPARE		SPARE		SPARE		
WHITE	COMMON		COMMON		COMMON		COMMON		
RED	1-4	R	5-8	R	9-12	R	13-16	R	
ORANGE	1-4	Y	5-8	Y	9-12	Y	13-16	Y	
GREEN	1-4	G	5-8	G	9-12	G	13-16	G	
BLUE	1	-G	5	-G	9	-G	3	-G	
BLACK	1	-Y	5	-Y	9	-Y	3	-Y	
BLUE/BLACK	4	G-	8	G-	12	G-	16	G-	
BLACK/WHITE	4	Y-	8	Y-	12	Y-	16	Y-	
GREEN/BLACK	17	W	19	W	21	W	23	W	
GREEN/WHITE	18	W	20	W	22	W	24	W	
RED/BLACK	17	DW	19	DW	21	DW	23	DW	
RED/WHITE	18	DW	20	DW	22	DW	24	DW	
ORANGE/BLACK	PB17	02	PB19	04	PB21	06	PB23	08	
BLUE/WHITE	PB18	04	PB20	06	PB22	08	PB24	02	
BLACK/RED	P. B. COM		P. B. COM		P. B. COM		P. B. COM		

- LEGEND
- PROPOSED PEDESTRIAN SIGNAL
  - H CONDUIT RUN NUMBER
  - 8 SIGNAL HEAD NUMBER
  - PROPOSED SIGNAL HEAD
  - PROPOSED SIGNAL CONDUIT
  - EXISTING SIGNAL CONDUIT
  - FUTURE SIGNAL CONDUIT
  - PROPOSED PULL BOX
  - EXISTING PULL BOX
  - PROPOSED SIGNAL POLE
  - LEFT TURN ON ARROW SIGN
  - OPTICOM
  - DETECTION ZONE FOR VIDEO
  - TUE SWITCHGEAR
  - TUE PEDESTAL SOURCE & METER



REVISED 3/16/98

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DONNA L. MANHART, P.E. 65548 ON OCTOBER 24, 1997

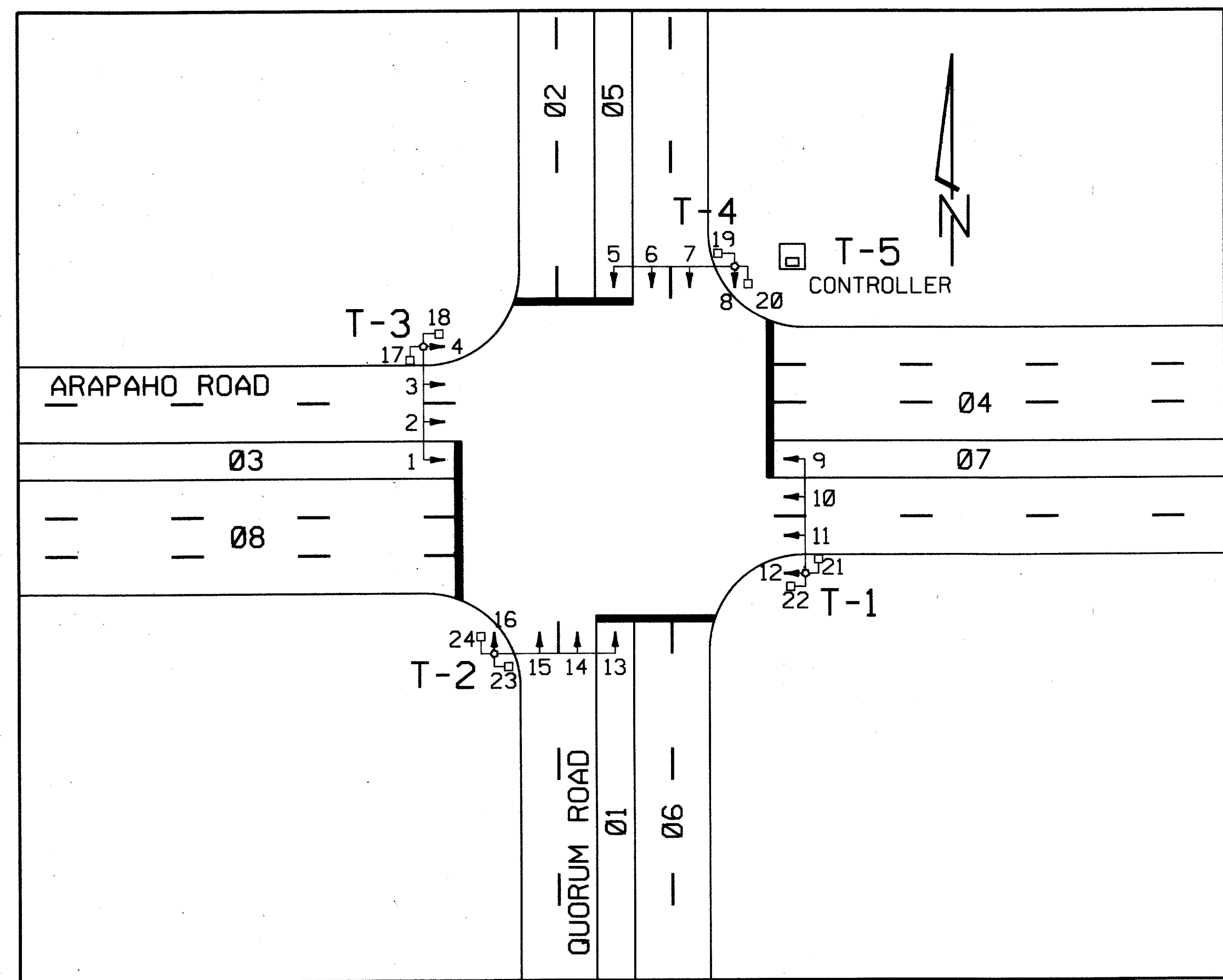
**SIGNALIZATION PLAN**  
 ARAPAHO ROAD & QUORUM DRIVE  
 ARAPAHO ROAD  
 ADDISON ROAD TO DALLAS NORTH TOLLWAY  
 TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Consulting Engineers  
 Dallas, Fort Worth, Houston, Phoenix, Tustin

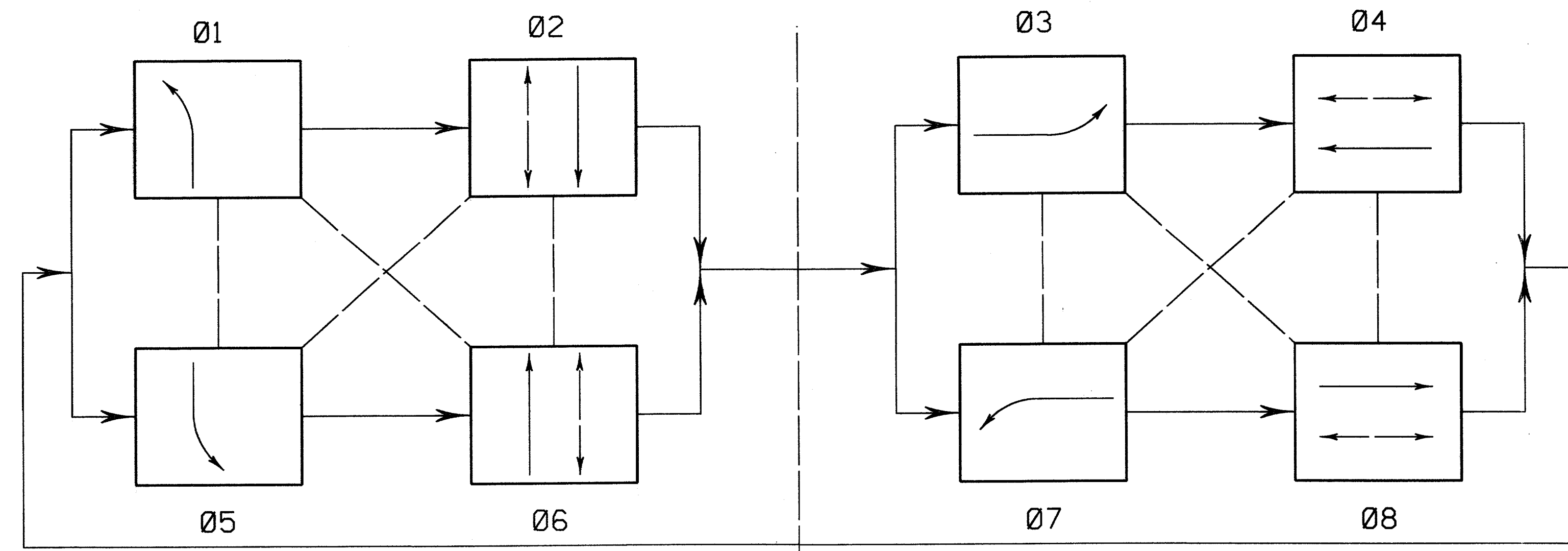
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZ1	HZ1	DLM	1"=20'	OCT 97	1772-01	S-6

RECORD DOCUMENTS 6/9/2000

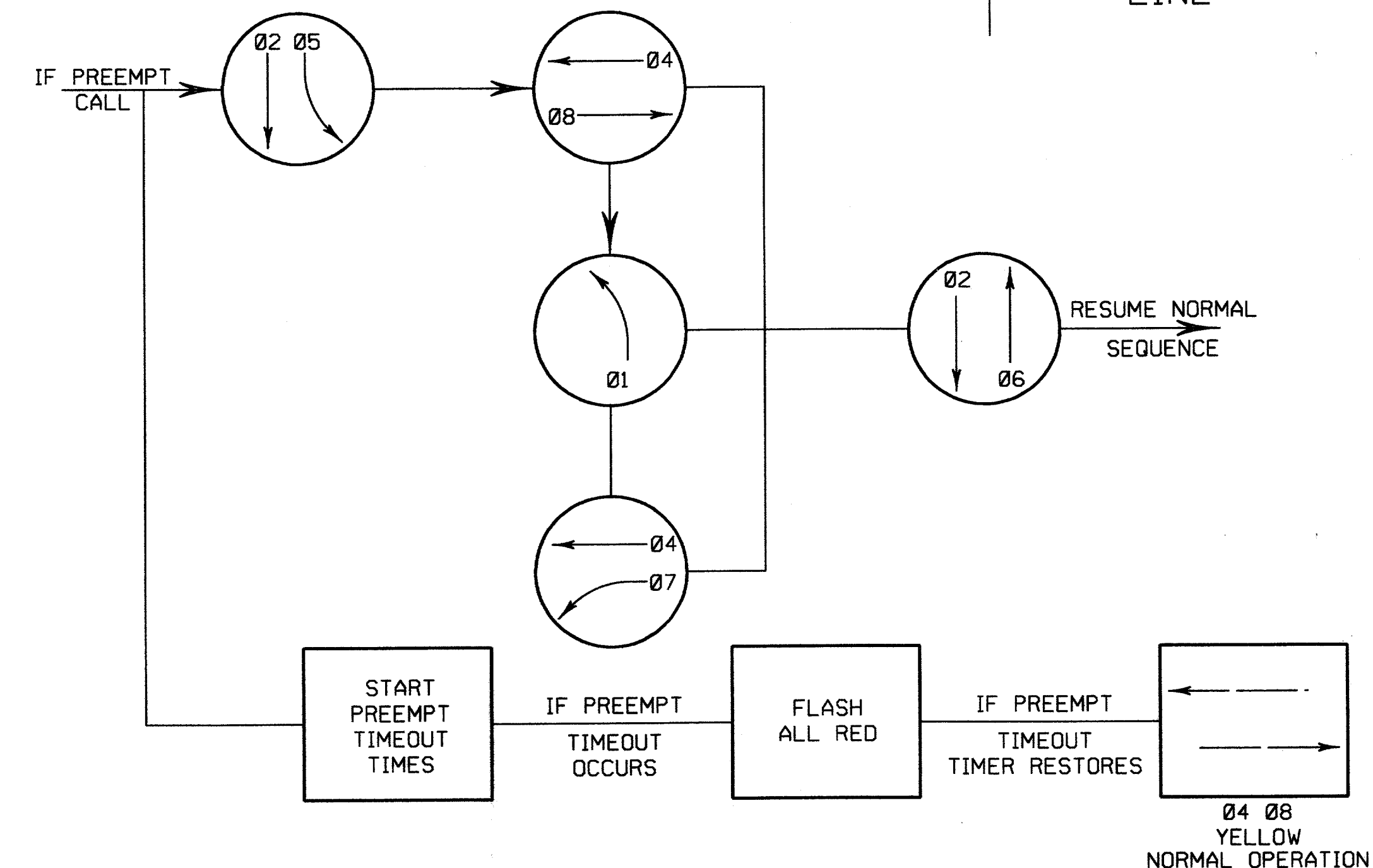
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



SIGNAL FACES																							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	W	W	W	W	W	W	W
G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G							

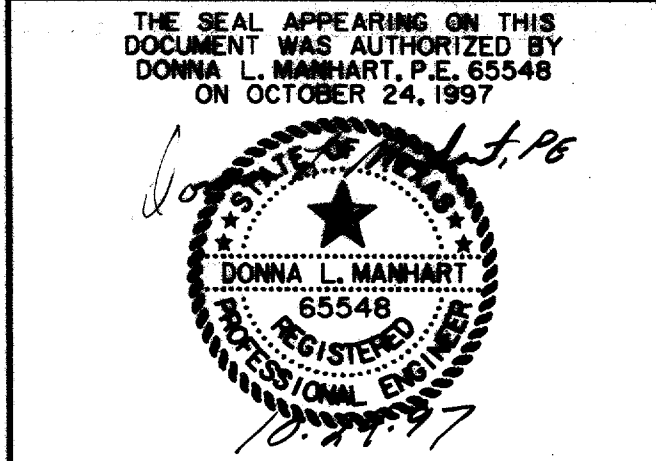


PHASE 2 RIGHT TURN WILL OVERLAP WITH PHASE 7  
 PHASE 4 RIGHT TURN WILL OVERLAP WITH PHASE 1  
 PHASE 6 RIGHT TURN WILL OVERLAP WITH PHASE 3  
 PHASE 8 RIGHT TURN WILL OVERLAP WITH PHASE 5

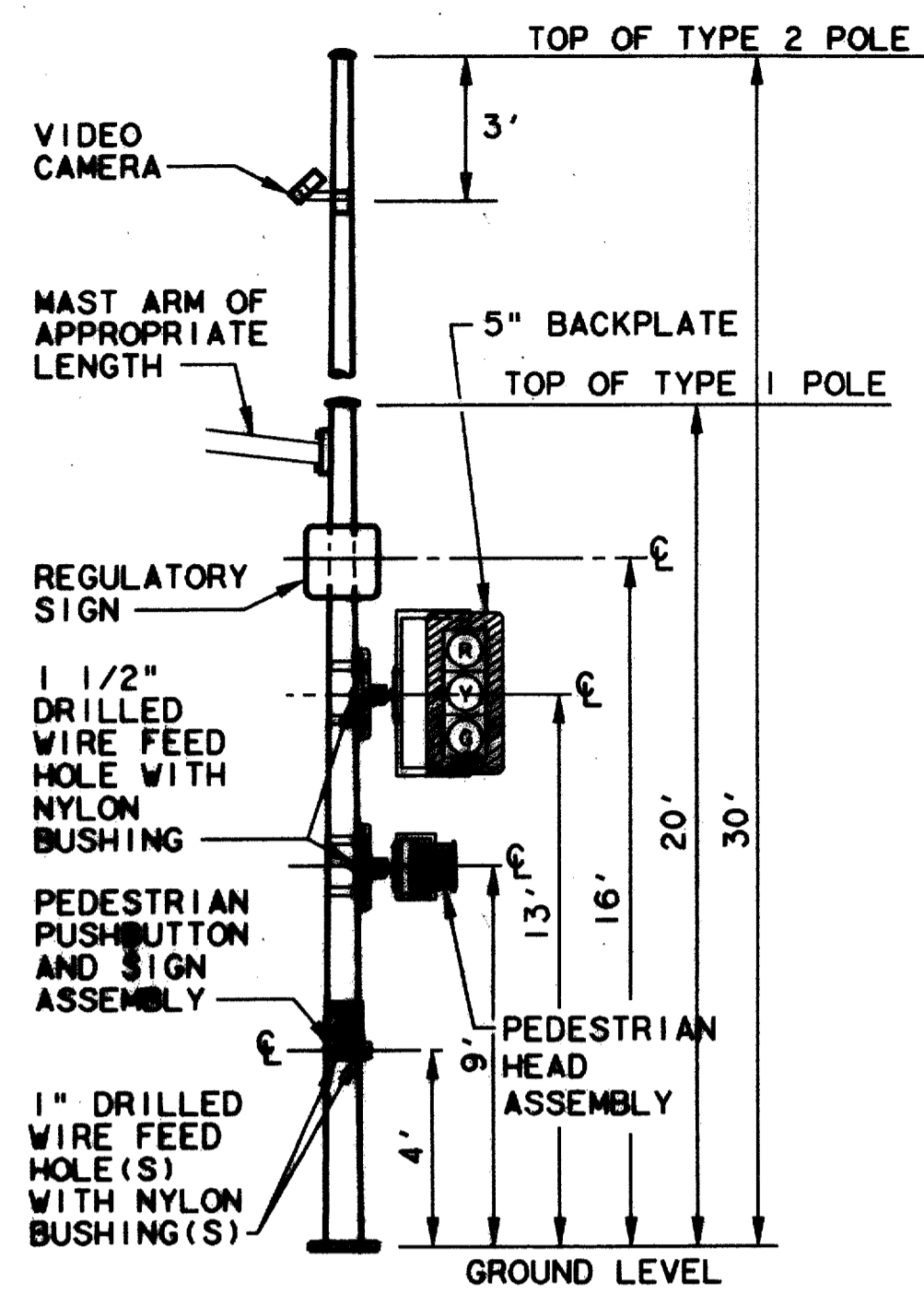


RAILROAD PRE-EMPTION PHASING DIAGRAM

RECORD DOCUMENTS 6/9/2000  
 THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



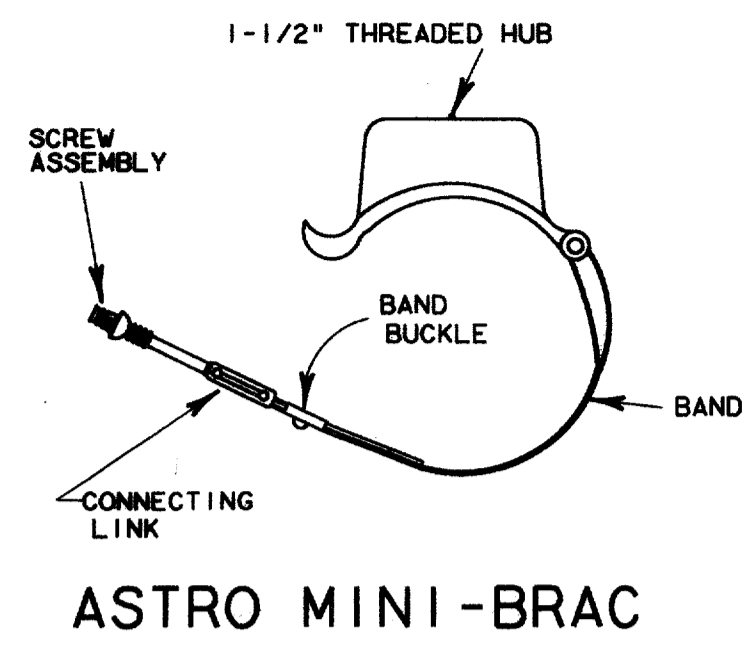
PHASE DIAGRAM ARAPAHO AT QUORUM						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DLM	NTS	OCT 97	1772-01	S-7



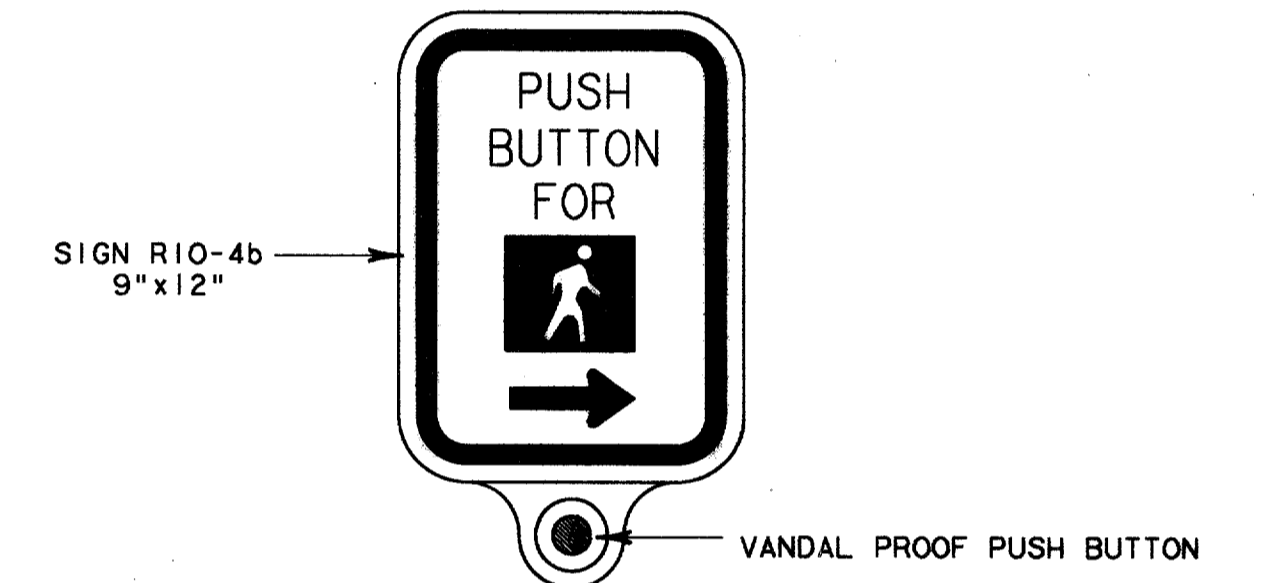
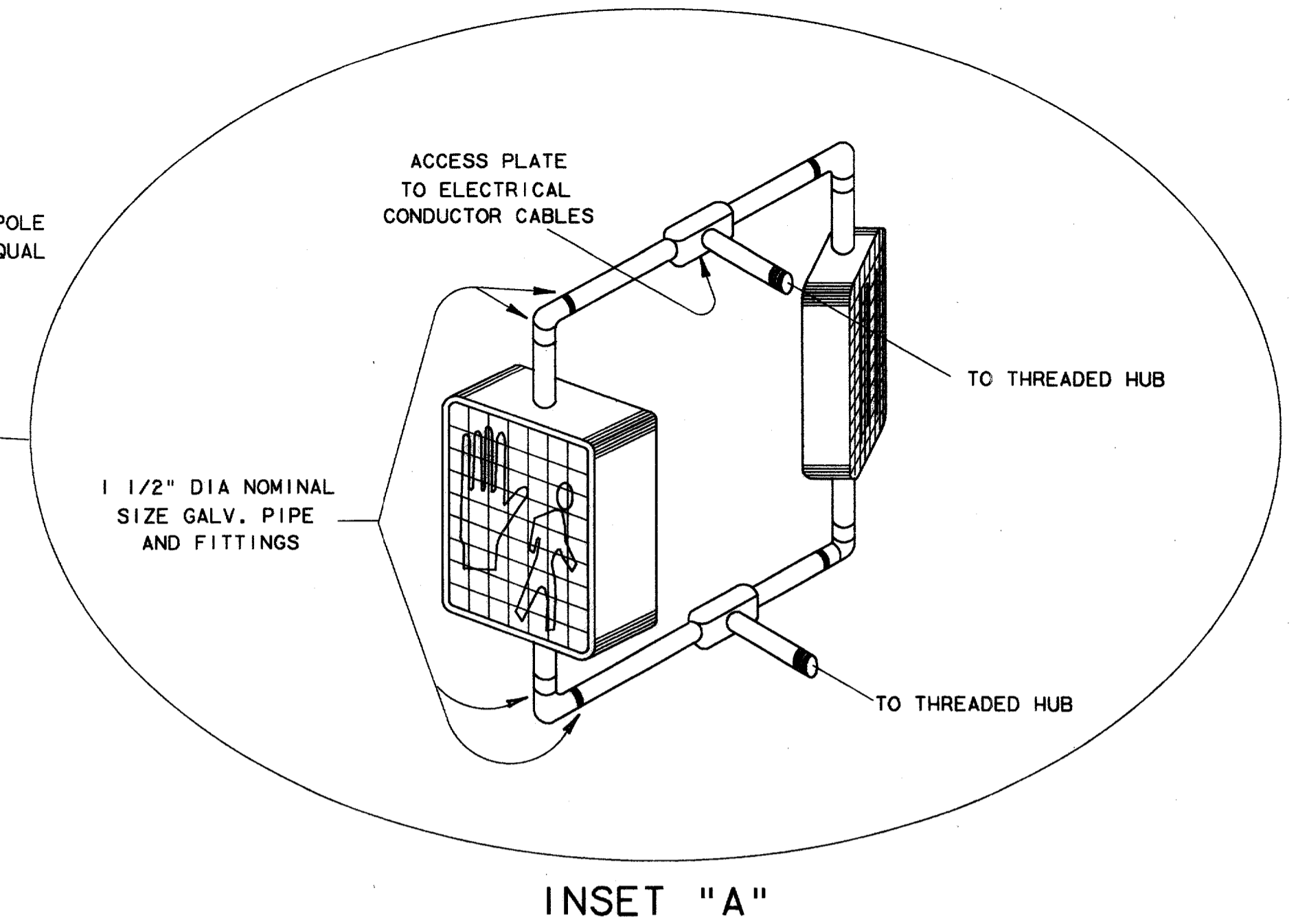
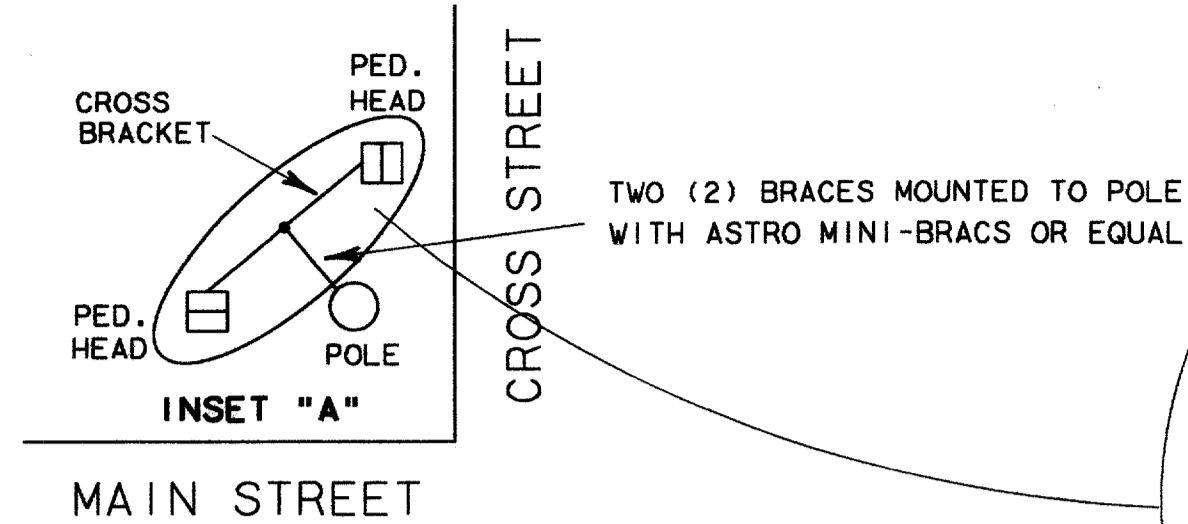
**MAST ARM POLE  
(TYPE 1 AND 2)  
DETAILS FOR MOUNTING SIGNAL AND  
SIGN HARDWARE ON POLES**

**GENERAL NOTES**

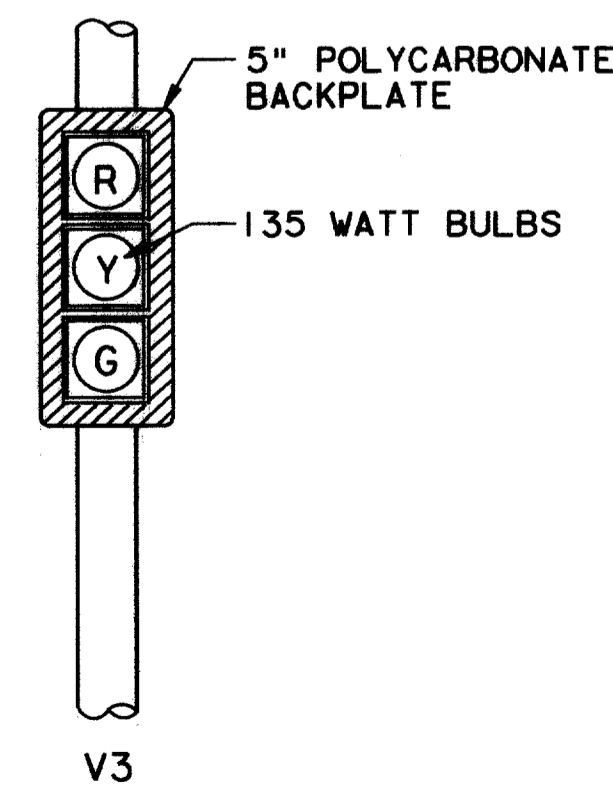
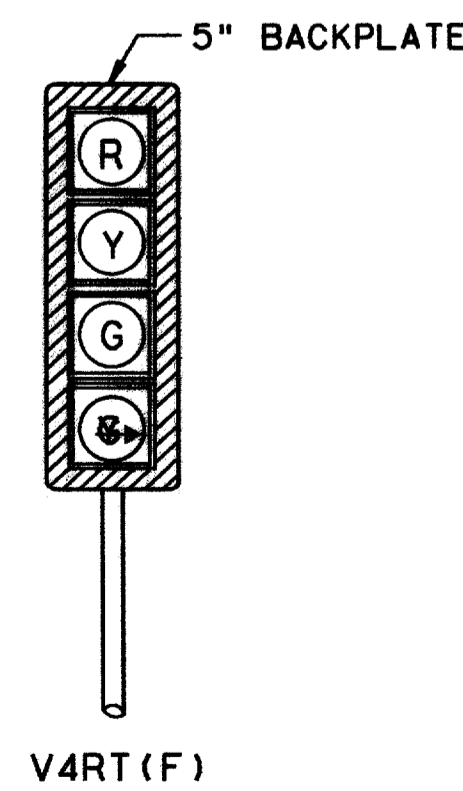
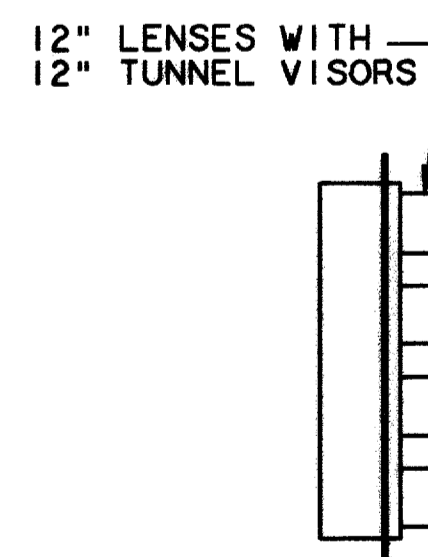
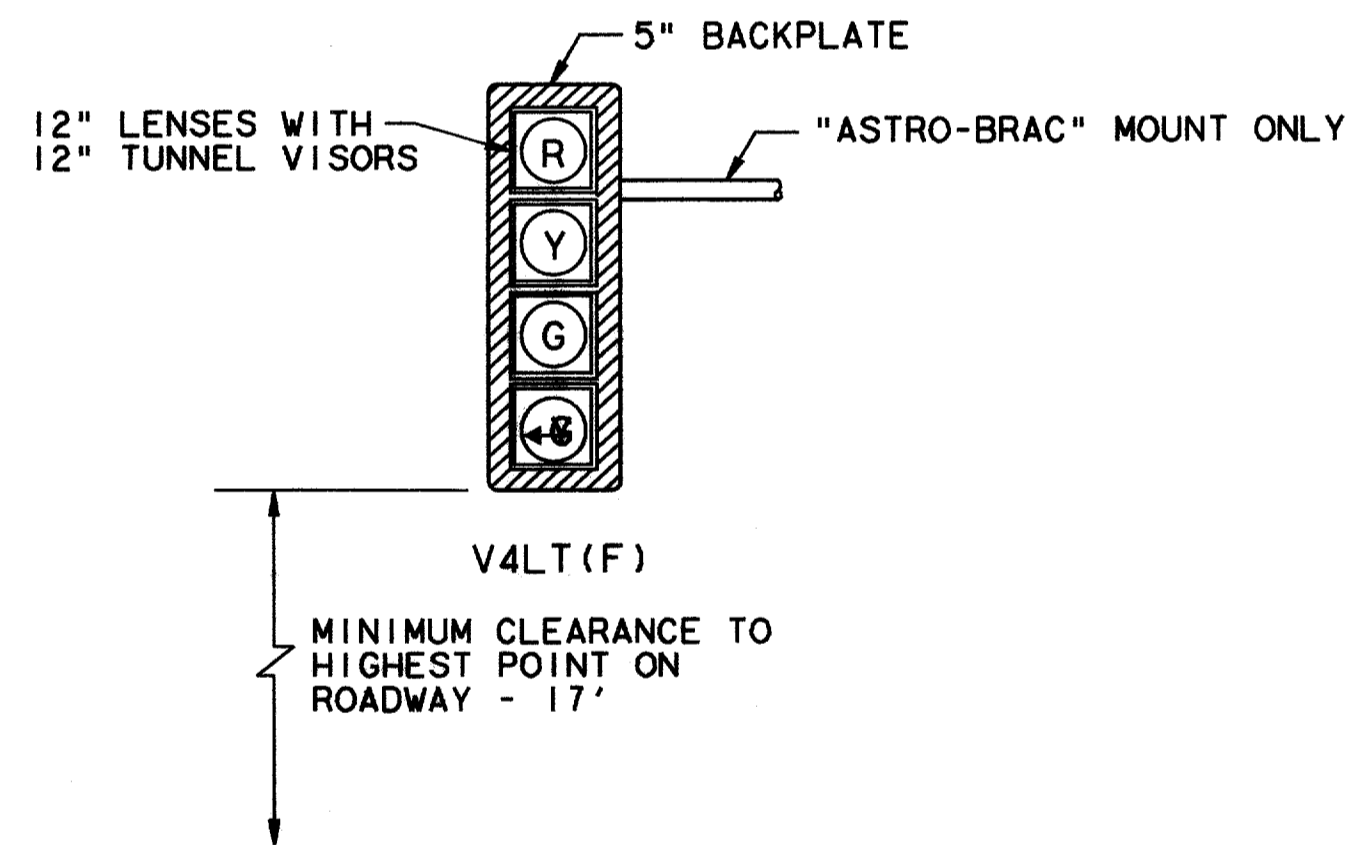
1. ALL WIRE FEED HOLES SHALL BE DRILLED IN THE FIELD BY THE CONTRACTOR. THE USE OF A BLOW TORCH FOR MAKING HOLES WILL NOT BE ALLOWED. COLD GALVANIZING COMPOUND SHALL BE APPLIED TO THE PERIMETER OF ALL DRILLED HOLES, ALLOWING ADEQUATE DRYING TIME BEFORE MOUNTING ANY SIGNAL OR SIGN HARDWARE.
2. 1 1/2" DIAMETER HOLES SHALL BE DRILLED ON THE BOTTOM FACE OF NEW GALVANIZED MAST ARMS WHEN MOUNTING HORIZONTAL SIGNAL HEADS. (WHEN MOUNTING VERTICAL SIGNAL HEADS ON THE MAST ARM, THE HOLES SHALL BE DRILLED ON THE FRONT FACE OF THE ARM.)
3. SIGNAL & SIGN HARDWARE SHALL BE MOUNTED AT THE DISTANCES AND LOCATIONS SHOWN ON THE DIAGRAMS ABOVE UNLESS OTHERWISE INSTRUCTED BY DOT FIELD REPRESENTATIVE.
4. IF THE VEHICLE SIGNAL HEAD IS SKEWED WITH RESPECT TO THE MAST ARM, THE CONTRACTOR MAYBE REQUIRED TO PROVIDE EXTENDED (12") "ASTRO-BRACKET" ARMS SO THAT THE BACKPLATE CLEARS THE MAST ARM.
5. IF THE DISTANCE BETWEEN THE SIDE MOUNT VEHICLE SIGNAL HEAD AND THE MAST ARM POLE IS NOT SUFFICIENT TO INSTALL A BACK PLATE THE CONTRACTOR MAY BE REQUIRED TO PROVIDE EXTENDED (12") "ASTRO-BRACKET" ARMS.
6. A TWO-WAY UNIVERSAL MOUNTING BRACKET SHALL BE USED WHENEVER TWO PEDESTRIAN SIGNAL HEADS ARE TO BE INSTALLED ON THE SAME POLE, AND A ONE-WAY UNIVERSAL MOUNTING BRACKET SHALL BE USED WHENEVER A SINGLE PEDESTRIAN HEAD IS MOUNTED ON A POLE.
7. NYLON BUSHINGS SHALL BE INSTALLED IN ALL WIRE FEED HOLES TO PROTECT THE WIRE INSULATION.
8. POLE MOUNTED SIGNAL HEADS SHALL BE INSTALLED ON THE AWAY-FROM-TRAFFIC SIDE OF THE SIGNAL POLE.
9. ALL SIGNAL HEAD LENSES SHALL BE 12" IN DIAMETER AND POLYCARBONATE, UNLESS OTHERWISE STATED.
10. ALL TRAFFIC SIGNAL AND PEDESTRIAN SIGNAL HEADS SHALL BE BLACK.
11. ALL SIGNAL HEADS WILL HAVE FIBEROPTIC ARROWS.



**PEDESTRIAN SIGNAL HEAD MOUNTED  
FOR TWO PEDESTRIAN SIGNAL HEADS**



**PEDESTRIAN PUSH BUTTON  
WITH INTEGRAL SIGN**

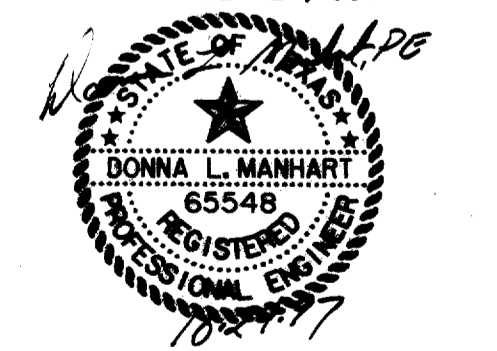


**TYPICAL SIGNAL PEDESTAL  
TOP MOUNT -4- LENS HEAD**

**NOTES:**

1. THE CONTRACTOR SHALL FURNISH AND INSTALL 60 WATT BULBS FOR PEDESTRIAN SIGNAL HEADS.
2. FOR THIS PROJECT THE PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON WILL BE MOUNTED ON THE SIGNAL POLE AS SHOWN ON THE "DETAIL OF SIGNAL POLE & MAST ARM".
3. ALL PEDESTRIAN SIGNAL HEADS SHALL BE INSTALLED ON THE AWAY-FROM-TRAFFIC SIDE OF THE PEDESTRIAN OR SIGNAL POLE.
4. ALL WIRING FOR PEDESTRIAN SIGNALS SHALL BE TOTALLY ENCLOSED WITHIN THE SIGNAL MOUNTING HARDWARE.
5. ALL PEDESTRIAN SIGNAL HEADS AND PUSH BUTTON SIGNALS SHALL DISPLAY THE SYMBOLIZED MESSAGE SHOWN ABOVE. (ADA APPROVED)
6. SYMBOLIZED MESSAGE HEIGHT SHALL BE 10 INCHES MINIMUM ON PEDESTRIAN SIGNAL HEADS.
7. V4 TURN SIGNALS SHALL HAVE FIBEROPTIC ARROWS

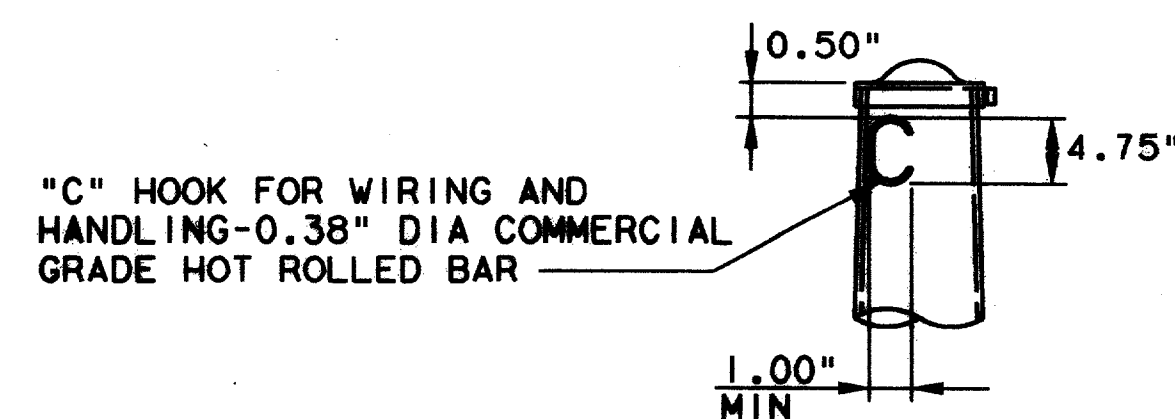
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DONNA L. MANHART, P.E. 65548 ON OCTOBER 24, 1997



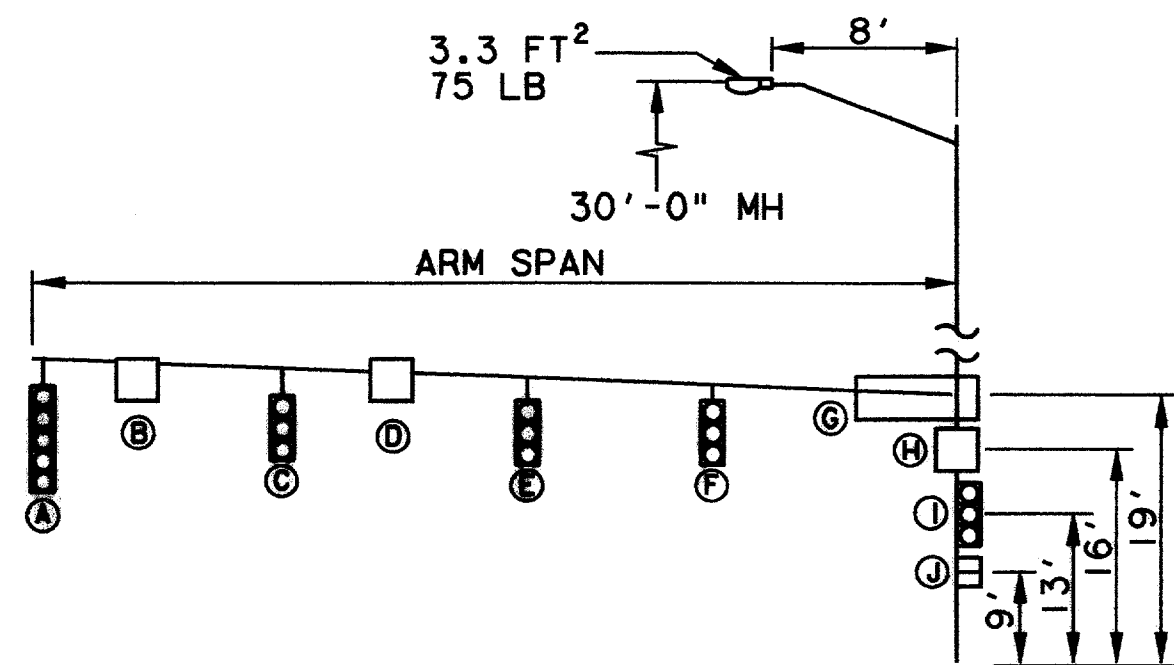
TRAFFIC SIGNAL POLES, ARMS, & HEADS DETAILS AND ELEVATIONS						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huiji-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DLM	NTS	OCT 97	1772-01	S-8

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



**POLE TOP**  
NO SCALE



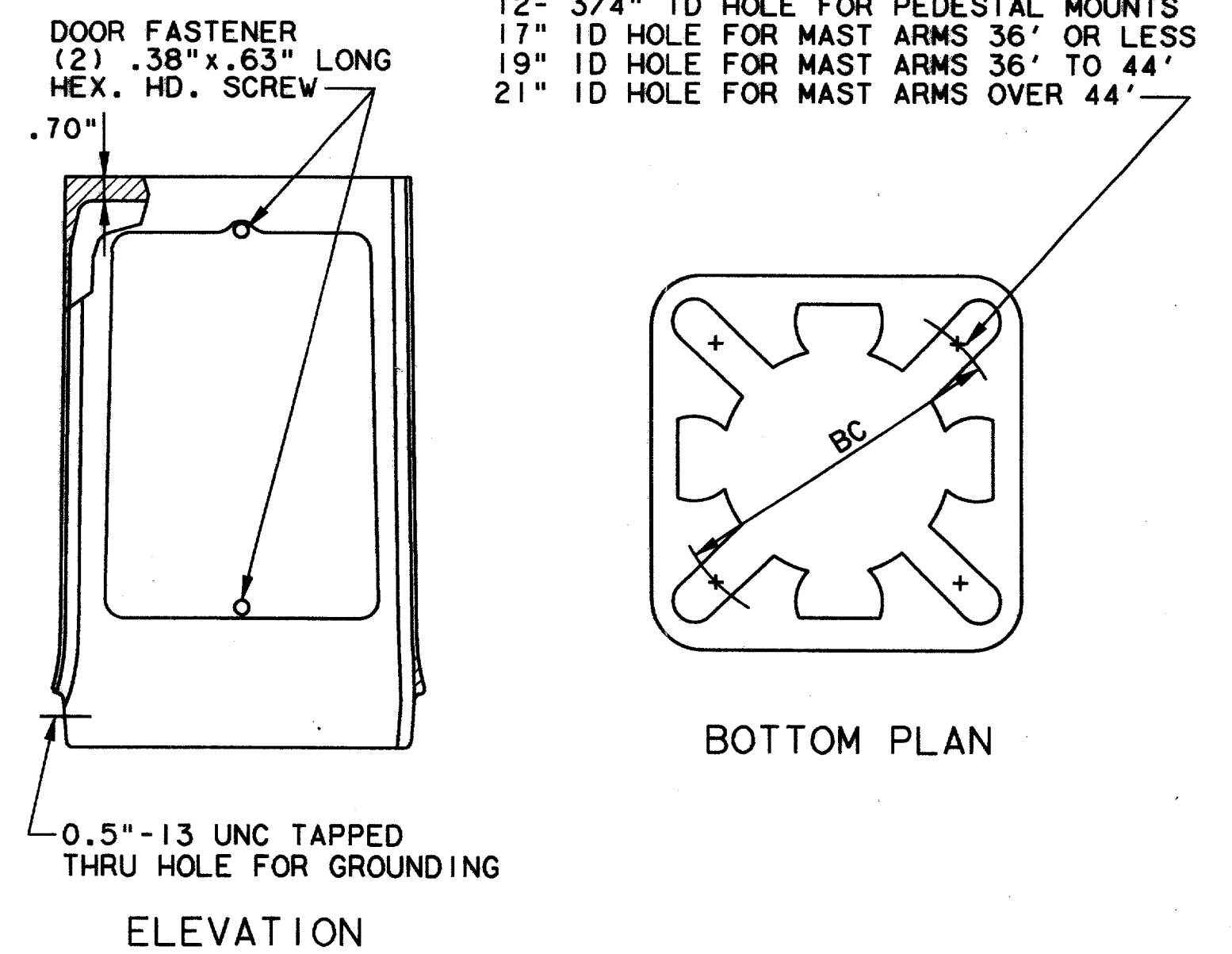
ARM SPAN	DISTANCE FROM POLE TO DEVICE (FT)						
	A	B	C	D	E	F	G
20	19	14	N.A.	N.A.	N.A.	N.A.	2
24	23	18	11	N.A.	N.A.	N.A.	2
28	27	22	15	N.A.	N.A.	N.A.	2
32	31	26	16	N.A.	N.A.	N.A.	2
36	35	24	23	12	N.A.	N.A.	2
40	39	34	26	13	N.A.	N.A.	2
44	43	28	28	20	12	N.A.	2
48	47	42	34	28	23	10	2

N.A. = NOT APPLICABLE

ALL STRUCTURES ARE DESIGNED TO THE 1985 (80 MPH) TXDOT STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.

DEVICE	DESCRIPTION	PROJ AREA (FT²)	WEIGHT (LBS)
(A) SIGNAL	12"-5 SEC WITH BACKPLATES	13.33	55
(B & D) SIGN	REGULATORY 30"x30"	6.25	15
(C & E) SIGNAL	12"-3 SEC WITH BACKPLATES	8.67	40
(F) SIGN	STREET NAME 24"x96"	16.00	50
(G) SIGN	REGULATORY 24"x24"	4.00	10
(H) SIGNAL	DUAL-12"-3 SEC WITH BACKPLATES	17.34	80
(I) SIGNAL	DUAL-PEDESTRIAN SIGNAL	8.00	60

**LOADING INFORMATION**



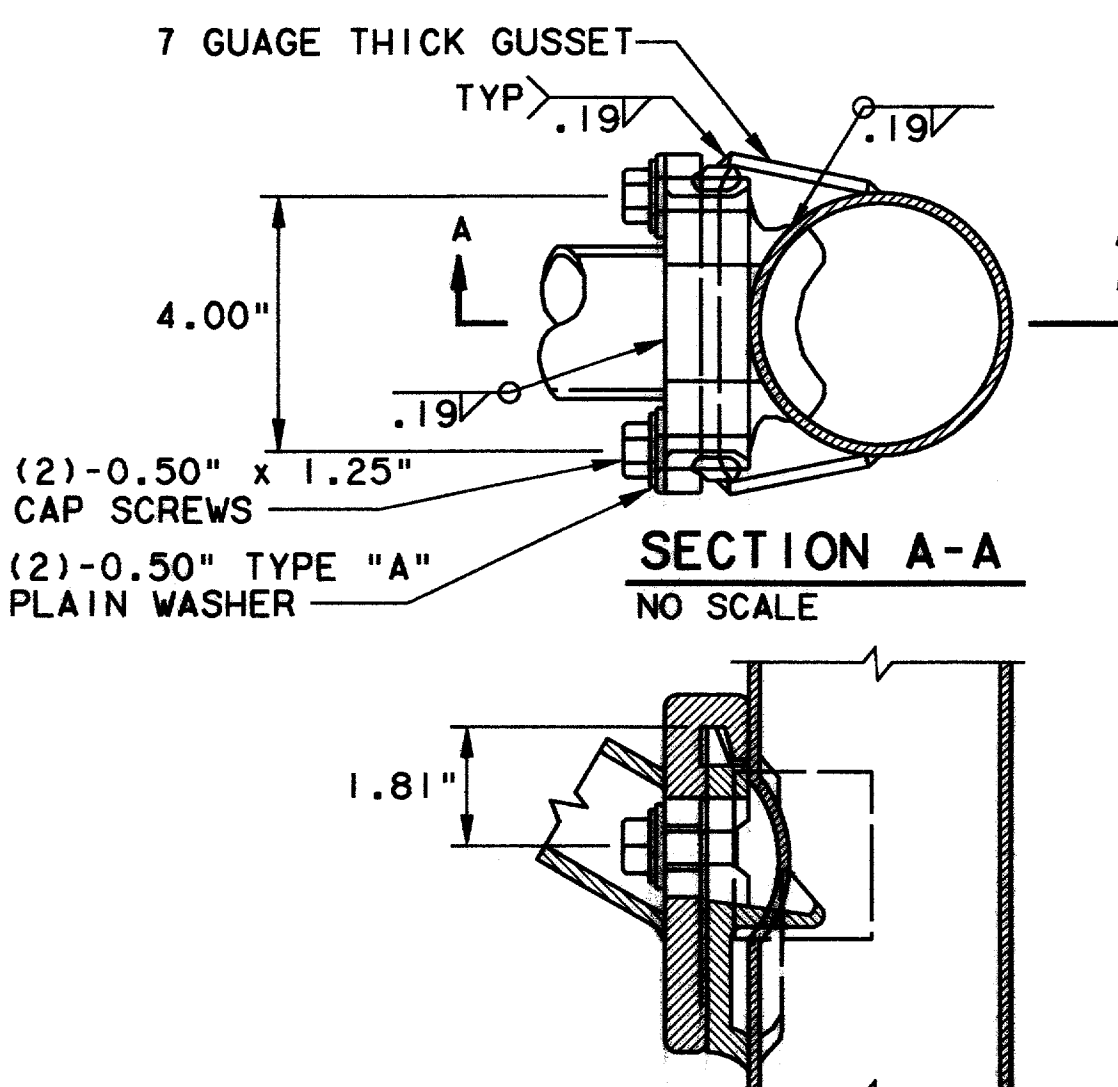
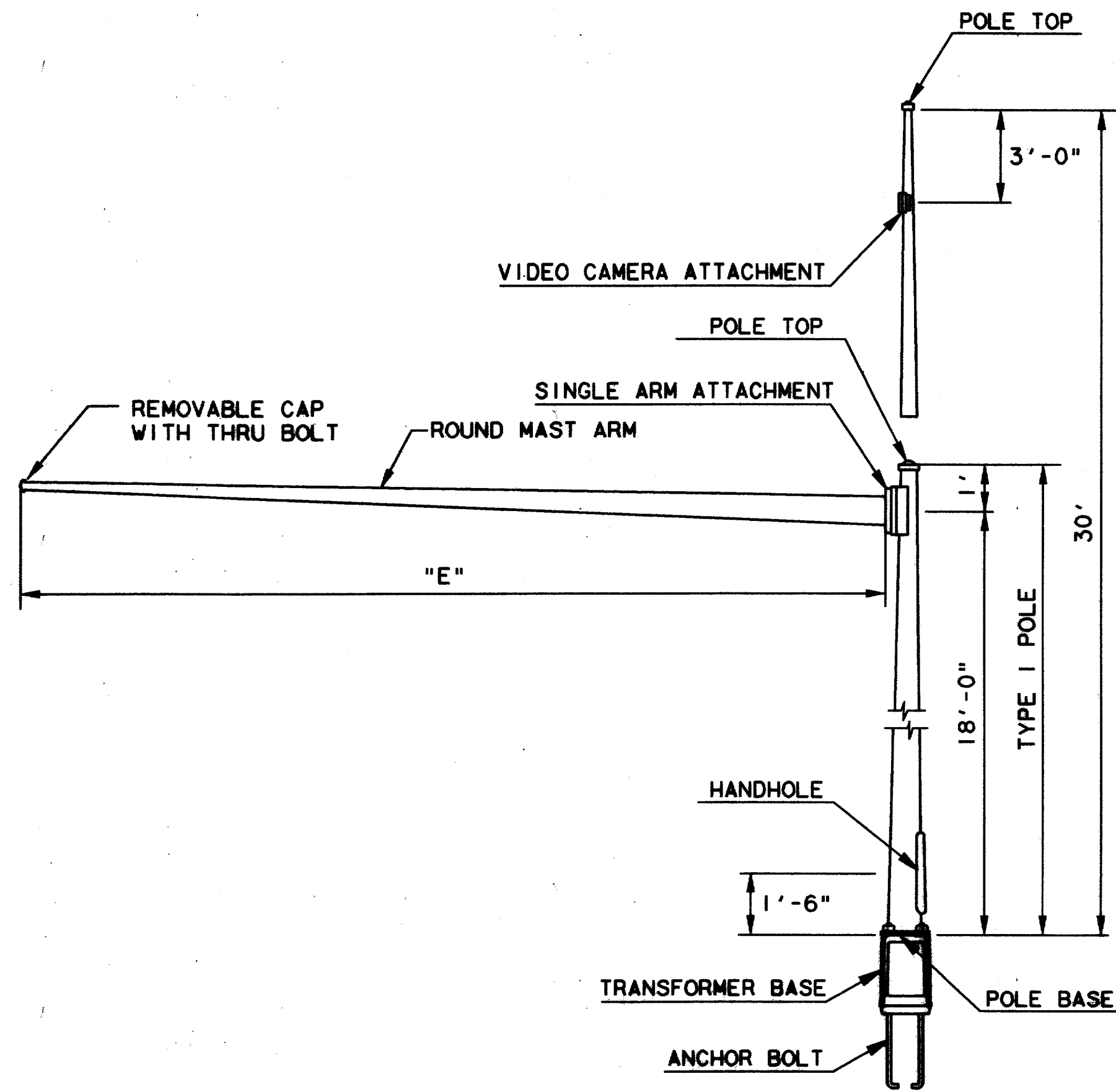
**ELEVATION**

**BOTTOM PLAN**

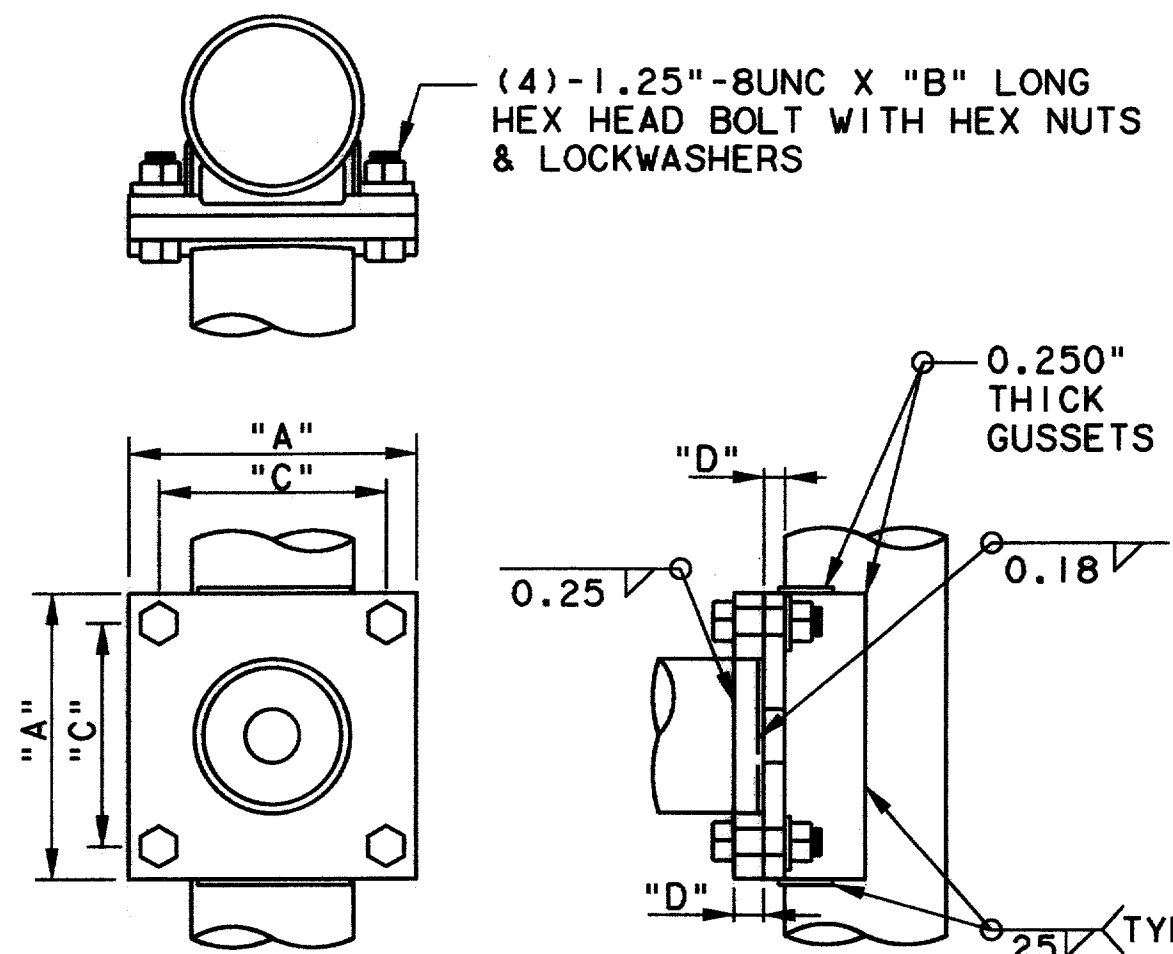
**TRANSFORMER BASE NOTES:**

- DOOR OPENING APPROXIMATELY 8" X 10 1/2" X 19 1/2"
- TOP BOLT HOLES WILL ACCOMMODATE MAXIMUM 1.00" DIA BOLTS.
- (4)-2.75" O.D. X 0.500" THICK FLAT WASHERS WITH HEX. HEAD CONNECTING BOLT WITH HEX. NUTS (ASTM: A325, NUTS A563 GR DH) TOP OF TRANSFORMER BASE.
- (4)-2.50" O.D. X 0.375" THICK HOLDOWN WASHERS FINISHED TO ASTM: B695 CLASS 50 PROVIDED FOR INSTALLATION UNDER THE TRANSFORMER BASE TOP PLATE.
- (4) NUT COVERS WITH STAINLESS STEEL DRIVE SCREWS TO COVER THE HEX HEAD BOLTS ON THE TOP OF TRANSFORMER BASE.
- BASE CONFORMS TO BREAKAWAY CRITERIA OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS, FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (1975).

**TRANSFORMER BASE**  
NOT TO SCALE



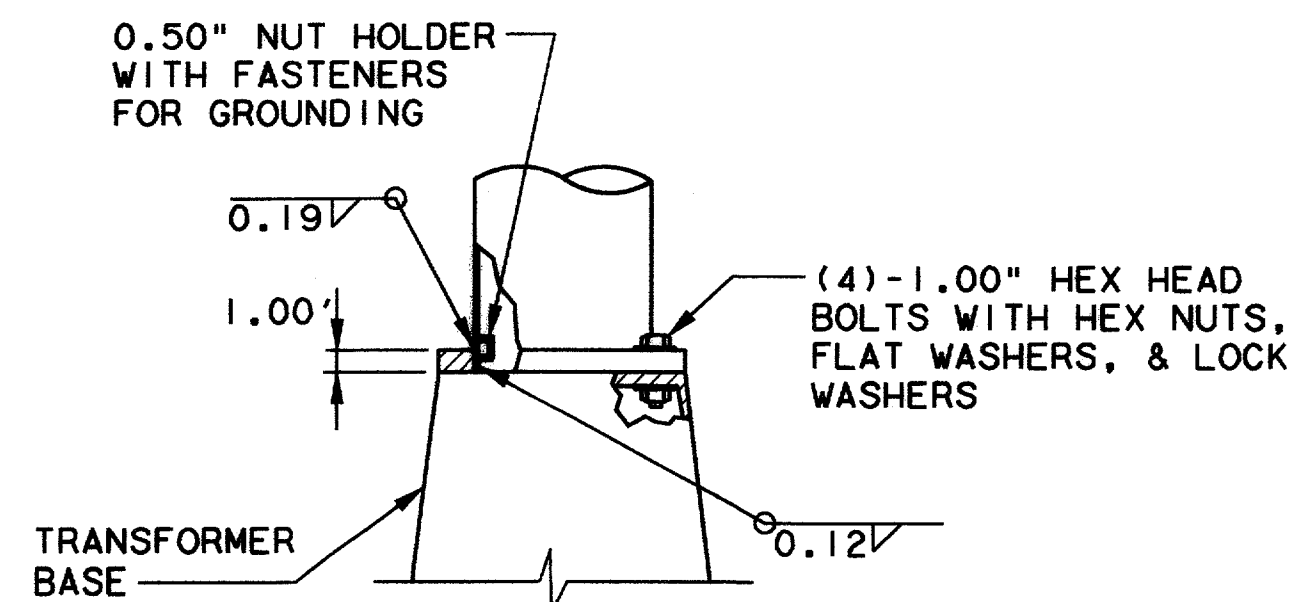
**LUMINAIRE ARM ATTACHMENT**  
NO SCALE



**SINGLE ARM ATTACHMENT**  
NO SCALE

MATERIAL DATA					
COMPONENT	ASTM DESIGNATION	MIN YIELD (KSI)	COMPONENT	ASTM DESIGNATION	MIN YIELD (KSI)
TUBE - 7 & 3 GAUGE	A595 GR.A	55	POLE BASE - 7 & 3 GA.	A36	36
TUBE - ALL OTHERS	A572 GR.65	60	POLE BASE - ALL OTHERS	A572 GR.42	42
LUMINAIRE ARM PIPE	2" SCHED.40	36	SIGNAL ARM ATTACHMENT	A36	36
LUMINAIRE ARM ATTACHMENT	A27GR.65-35		SIGNAL ARM BOLTS	A325	92
ANCHOR BOLTS	A36-MOD.	55	LUMINAIRE ARM BOLTS	SAE GR.5	
GALVANIZING	A123 & A153				

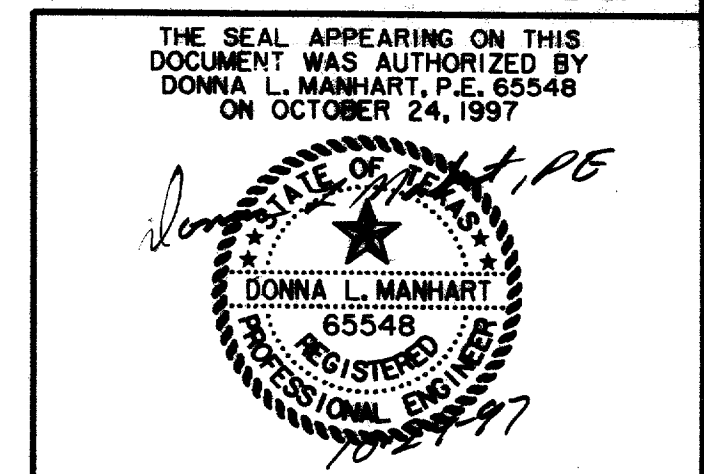
POLE AND SIGNAL ARM DATA														
DESIGNATION KEY			POLE DATA				SIGNAL ARM DATA				SIGNAL ARM ATTACHMENT DATA			
POLE SERIES	POLE TYPE	SIGNAL ARM SPAN	BASE DIA	TOP DIA	LENGTH	GAUGE (THK)	FIXED END DIA	FREE END DIA	LENGTH "E"	GAUGE (INCHES)	PLATE SQUARE "A"	PLATE THICKNESS "D"	BOLT LENGTH "B"	BOLT SPACING "C"
DAL	1	20'	10.00"	7.50"	19'	0.179"	6.50"	3.80"	19.1'	0.179	11.00"	1.25"	4.50"	8.00"
DAL	1	24'	11.00"	8.50"	19'	0.179"	7.50"	4.30"	23.1'	0.179	11.00"	1.25"	4.50"	8.00"
DAL	1	28'	11.50"	9.00"	19'	0.179"	8.00"	4.20"	27.1'	0.179	11.00"	1.25"	4.50"	8.00"
DAL	1	32'	12.00"	9.50"	19'	0.179"	9.00"	4.70"	31.0'	0.179	13.00"	1.25"	4.50"	10.00"
DAL	1	36'	12.50"	10.00"	19'	0.179"	9.50"	4.60"	35.0'	0.179	13.00"	1.25"	4.50"	10.00"
DAL	1	40'	12.00"	9.50"	19'	0.239"	9.50"	4.10"	39.0'	0.239	13.00"	1.25"	4.50"	10.00"
DAL	1	44'	12.50"	10.00"	19'	0.239"	10.00"	4.10"	43.0'	0.239	14.00"	1.50"	5.00"	11.00"
DAL	1	48'	13.00"	10.50"	19'	0.239"	10.50"	4.10"	47.0'	0.239	14.00"	1.50"	5.00"	11.00"
DAL	2	20'	10.00"	5.00"	30'	0.179"	6.50"	3.80"	19.1'	0.179	11.00"	1.25"	4.50"	8.00"
DAL	2	24'	11.00"	6.80"	30'	0.179"	7.50"	4.30"	23.1'	0.179	11.00"	1.25"	4.50"	8.00"
DAL	2	28'	11.50"	7.30"	30'	0.179"	8.00"	4.20"	27.1'	0.179	11.00"	1.25"	4.50"	8.00"
DAL	2	32'	12.00"	7.80"	30'	0.179"	9.00"	4.70"	31.0'	0.179	13.00"	1.25"	4.50"	10.00"
DAL	2	36'	12.50"	8.30"	30'	0.179"	9.50"	4.60"	35.0'	0.179	13.00"	1.25"	4.50"	10.00"
DAL	2	40'	12.00"	7.80"	30'	0.239"	9.50"	4.10"	39.0'	0.239	13.00"	1.25"	4.50"	10.00"
DAL	2	44'	12.50"	8.30"	30'	0.239"	10.00"	4.10"	43.0'	0.239	14.00"	1.50"	5.00"	11.00"
DAL	2	48'	13.00"	8.80"	30'	0.239"	10.50"	4.10"	47.0'	0.239	14.00"	1.50"	5.00"	11.00"



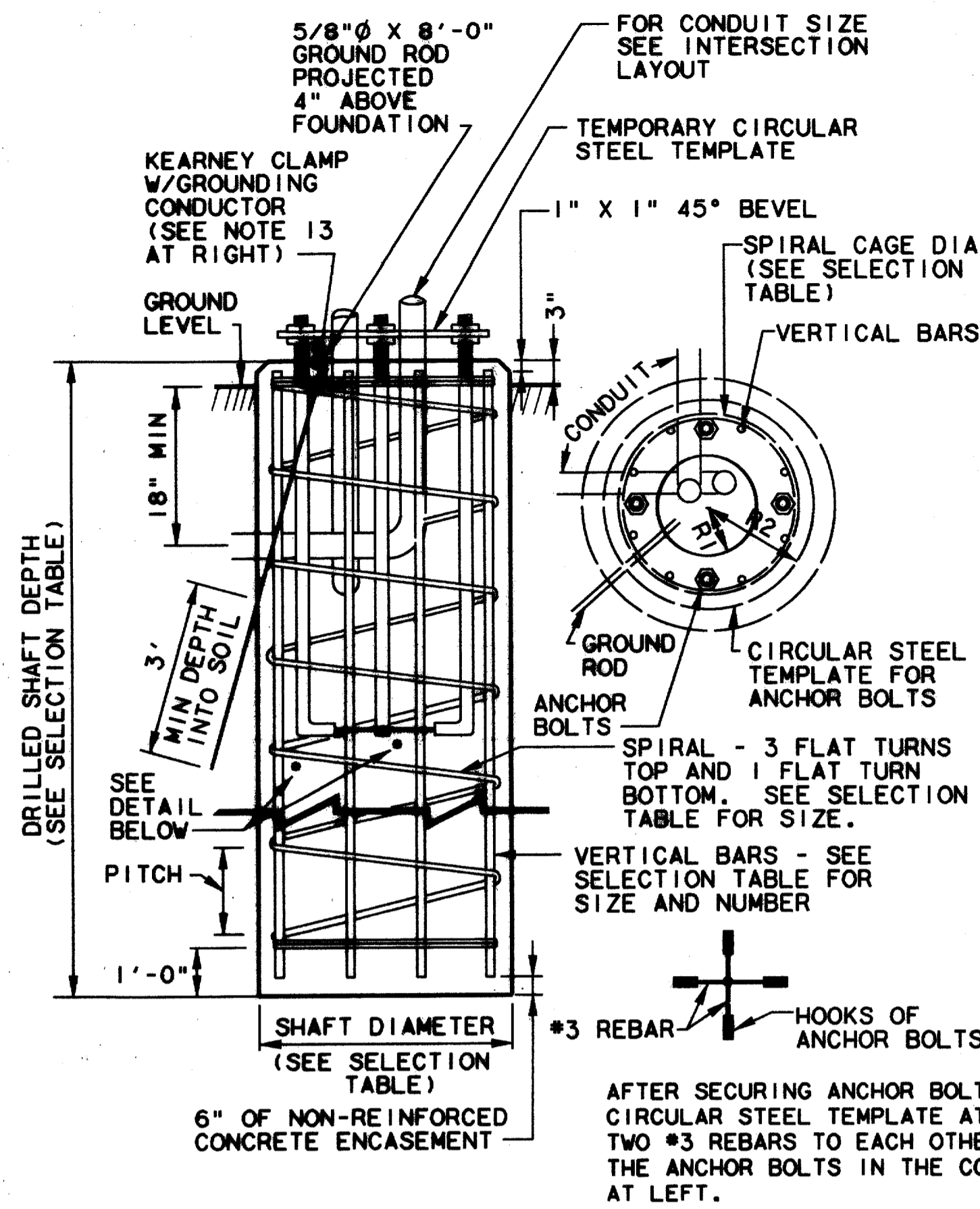
**POLE BASE**  
NO SCALE

RECORD DOCUMENTS 6/9/2000

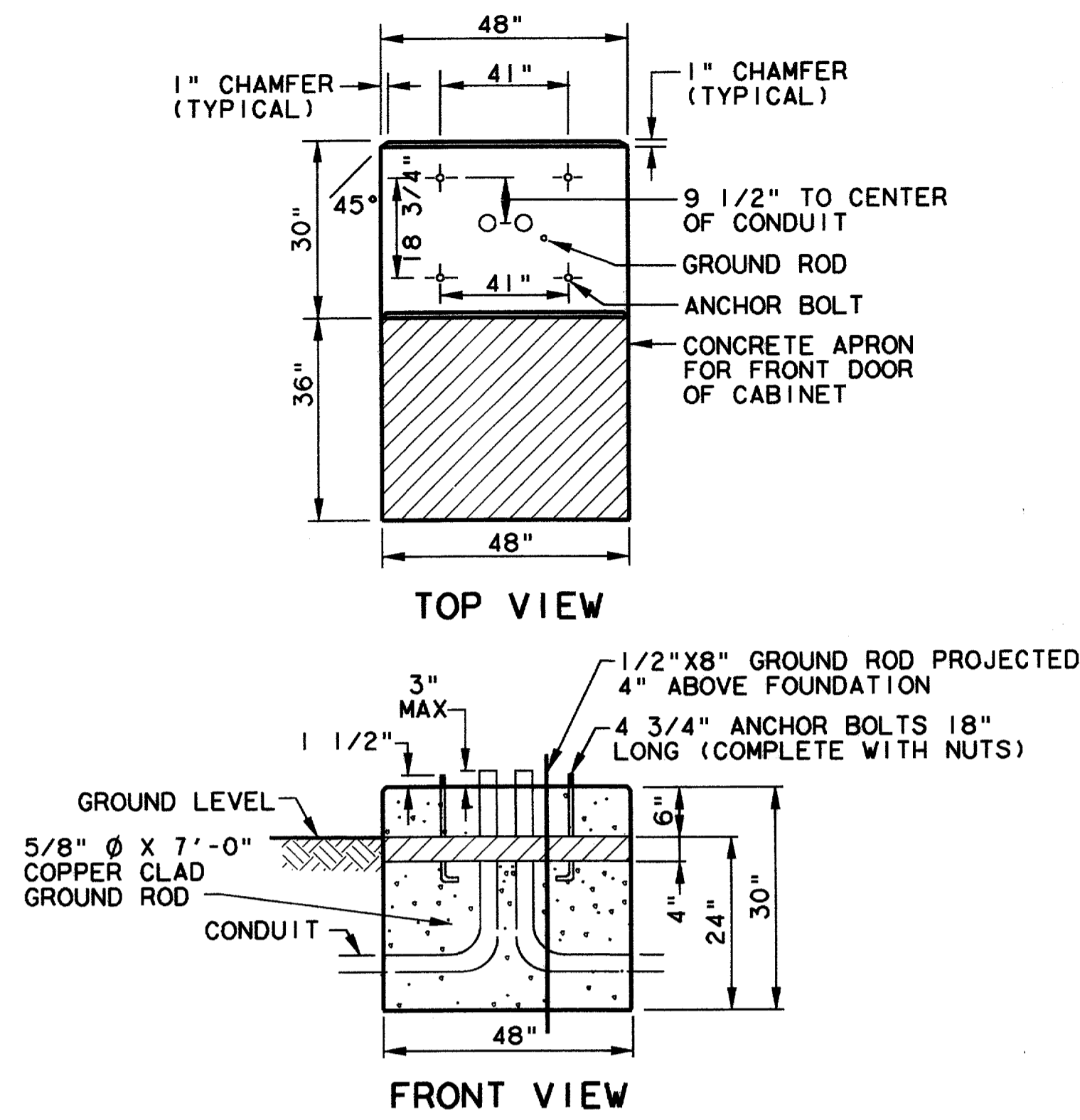
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



TRAFFIC SIGNAL POLE, MAST ARM AND TRANSFORMER BASE DETAILS						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huii-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DLM	NTS	OCT 97	1772-01	S-9



- NOTES:
1. A 1/4" THICK STEEL PLATE TEMPLATE WITH HOLES 1/16" GREATER THAN THE ANCHOR BOLT DIAMETER SHALL BE USED TO ACCURATELY POSITION ANCHOR BOLTS.
  2. CONCRETE USED FOR FOUNDATIONS SHALL BE EITHER CLASS A OR CLASS C AS DEFINED IN THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS' "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" ITEM 7.4.5
  3. ALL ANCHOR BOLT HOOKS SHALL BE POINTED TOWARDS THE CENTER OF THE FOUNDATION.
  4. ALL CONDUITS PLACED IN THE FOUNDATION SHALL BE ORIENTED AS INDICATED ON THE INTERSECTION CONDUIT LAYOUT.
  5. 7" OF THE THREADED PORTION OF EACH ANCHOR BOLT SHALL PROJECT ABOVE THE TOP SURFACE OF THE FOUNDATION.
  6. A 5/8"Ø X 8'-0" COPPER CLAD STEEL GROUND ROD SHALL BE PLACED IN THE FOUNDATION WITH A MINIMUM OF 4" OF THE ROD PROJECTING ABOVE THE FOUNDATION'S TOP SURFACE.
  7. EACH GROUND ROD SHALL BE DRIVEN INTO THE SOIL FOR A MINIMUM OF 3' AS INDICATED ON THE DRAWING AT THE LEFT.
  8. WHEN SOLID ROCK IS ENCOUNTERED DURING DRILLING, THE DRILLED SHAFT SHALL EXTEND 5'-0" INTO SOLID ROCK, OR TO A DEPTH DETERMINED BY THE INSPECTOR.
  9. THE CONFIGURATION FOR ANCHOR BOLTS AND VERTICAL BARS INSIDE THE SPIRAL CAGE SHALL BE AS INDICATED ON DRAWING AT THE LEFT.
  10. SEE SELECTION TABLE FOR APPROPRIATE DRILLED SHAFT DEPTH FOR A GIVEN TYPE OF POLE AND ARM.
  11. ALL STEEL REINFORCEMENT BARS SHALL BE OF INTERMEDIATE GRADE.
  12. A 2' DEEP CIRCULAR FORM SHALL BE PLACED TO ENCASE THE TOP PORTION OF ALL CIRCULAR FOUNDATIONS.
  13. CONNECT #6 AWG STRANDED UNINSULATED COPPER GROUNDING CONDUCTOR TO GROUND ROD WITH A KEARNEY CLAMP. FOR FURTHER DETAILS CONCERNING GROUNDING CONSULT "DETAILS FOR GROUNDING CABINETS AND POLES" DRAWING.



DETAILS FOR INSTALLING CONTROLLER CABINET AND FOUNDATION

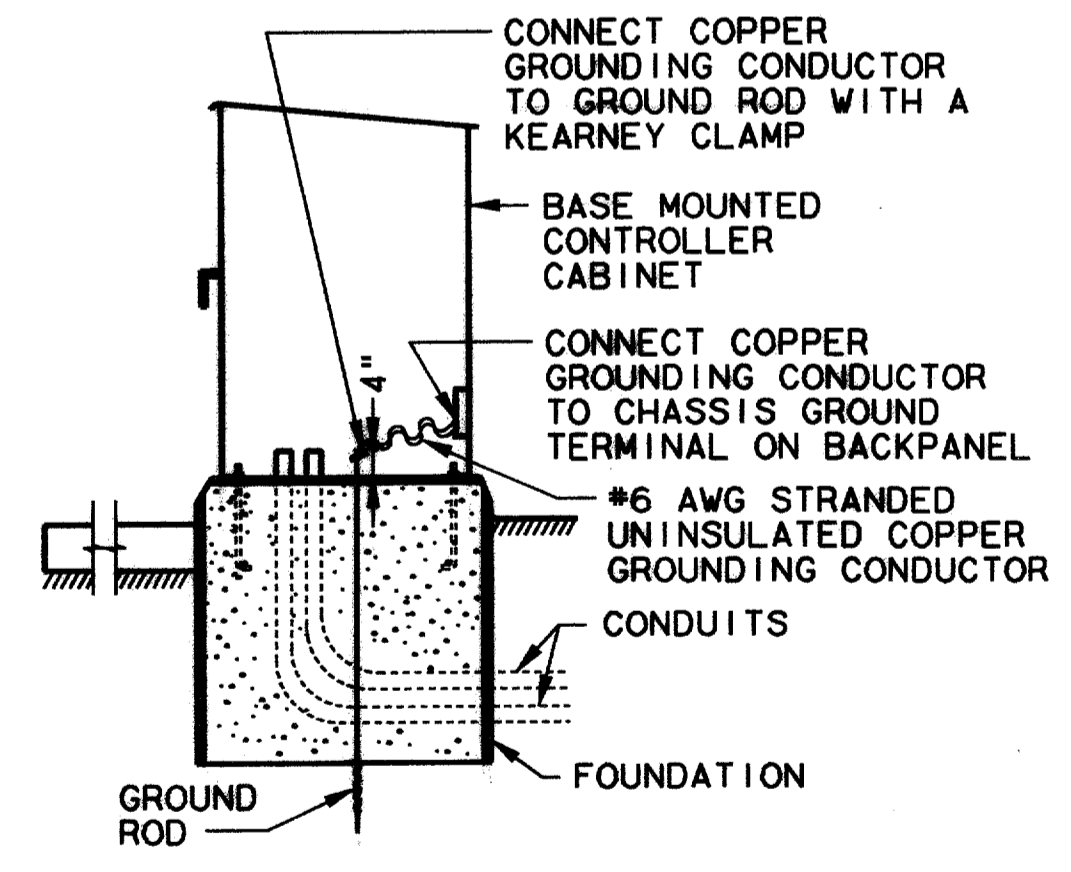
FOUNDATION SELECTION TABLE

TYPE OF POLE AND MAST ARM	FOUNDATION TYPE	DRILLED SHAFT DIAMETER	SPIRAL CAGE DIAMETER	REINFORCEMENT STEEL		DRILLED SHAFT DEPTH	ANCHOR BOLT - QUANTITY AND DIMENSION	ANCHOR BOLT CIRCLE DIAMETER	TEMPLATE	
				VERT BARS	SPIRAL & PITCH				INSIDE RADIUS R1	OUTSIDE RADIUS R2 (MIN.)
TYPE I UP TO 36' ARM	30-A	30"	25"	8-#7'S	#3 AT 9"	11'-0"	(4) - 1 1/2" X 40" X 6" HOOK	17"	7"	10"
TYPE I UP TO 48' ARM	30-B	30"	25"	8-#9'S	#3 AT 9"	13'-0"	(4) - 1 3/4" X 46" X 6" HOOK	19"	7 3/4"	11 1/8"

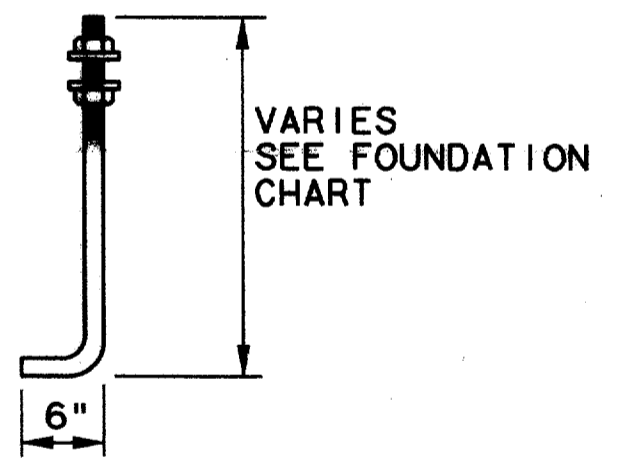
- NOTES:
1. DRILLED SHAFT DIAMETER AND DEPTH, AND NUMBER OF VERTICAL BARS BASED ON TXDOT DISTRICT 18 STANDARDS FOR 80 MPH WINDS.
  2. SINGLE MAST ARM.

POLE FOUNDATION DETAILS FOR TRAFFIC SIGNAL STRUCTURES

- GENERAL NOTES
1. ALL CONTROLLER CABINETS AND SIGNAL POLES MOUNTED ON NEW FOUNDATIONS MUST BE GROUNDED.
  2. SIZE OF COPPER CLAD STEEL GROUND ROD SHALL BE 5/8"Ø X 8'-0".
  3. WHEN INSTALLING A GROUND ROD IN AN EXISTING FOUNDATION, DRILL 1" HOLE THROUGH THE FOUNDATION MISSING ALL ANCHOR BOLTS AND CONDUITS. AND PACK THE DRILLED HOLE WITH SALT.
  4. GROUND ROD SHALL CLEAR ALL ANCHOR BOLTS AND CONDUITS IN THE FOUNDATION. GROUND RODS SHALL EXTEND 4" ABOVE THE TOP OF FOUNDATION.

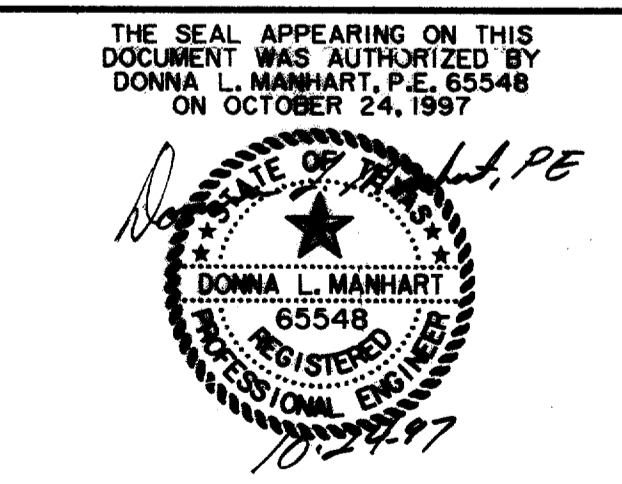


(4) ANCHOR BOLTS WITH (2) HEX NUTS AND (2) WASHERS PER BOLT WITH THREADED END GALVANIZED AT LEAST 12".



ANCHOR BOLT NO SCALE

GROUND CABINETS DETAIL

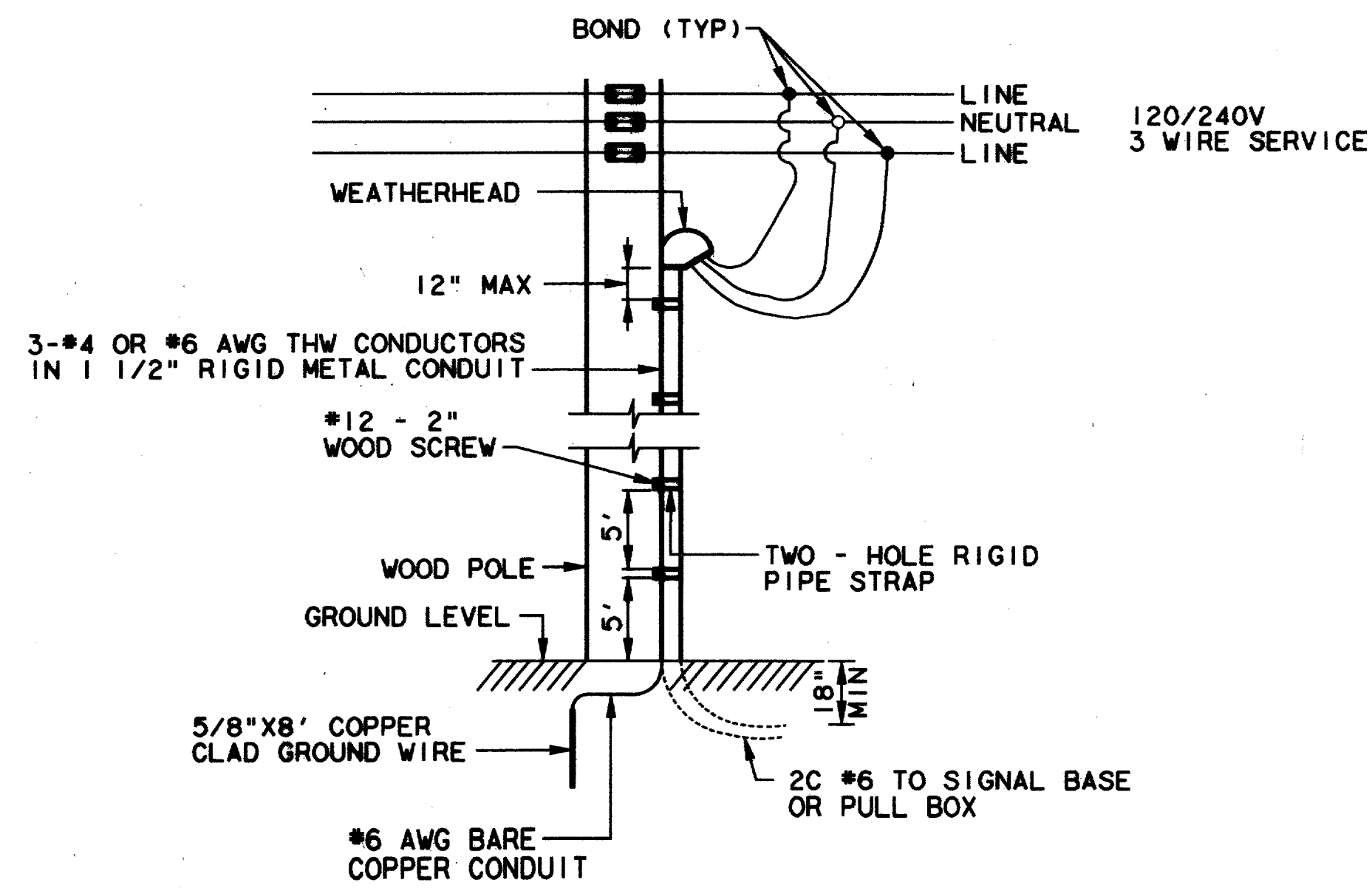


TRAFFIC SIGNAL CONTROLLER CABINET, AND SIGNAL FOUNDATION DETAILS						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DLM	NTS	OCT 97	1772-01	S-10

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

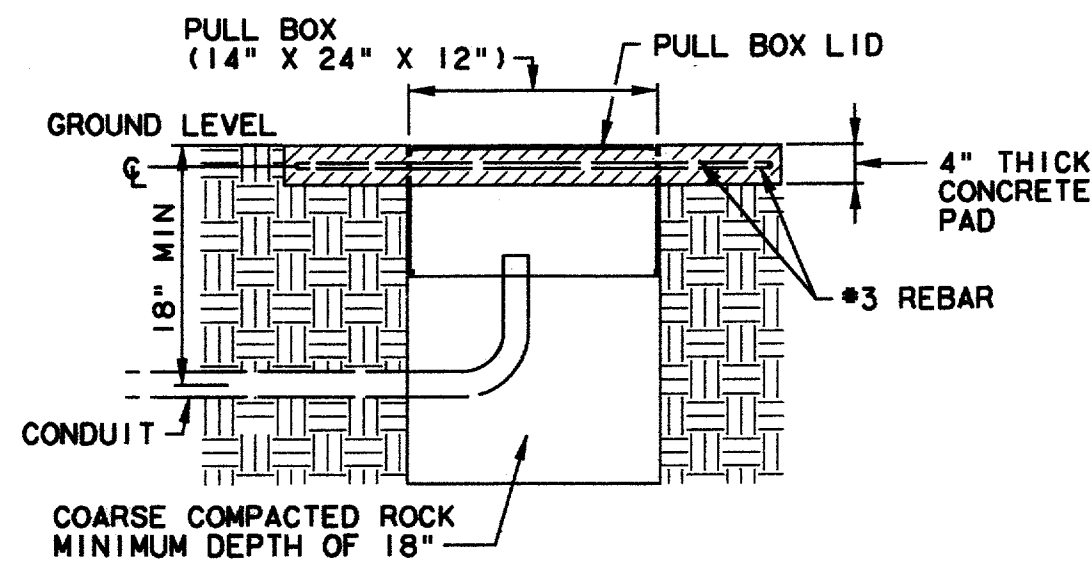
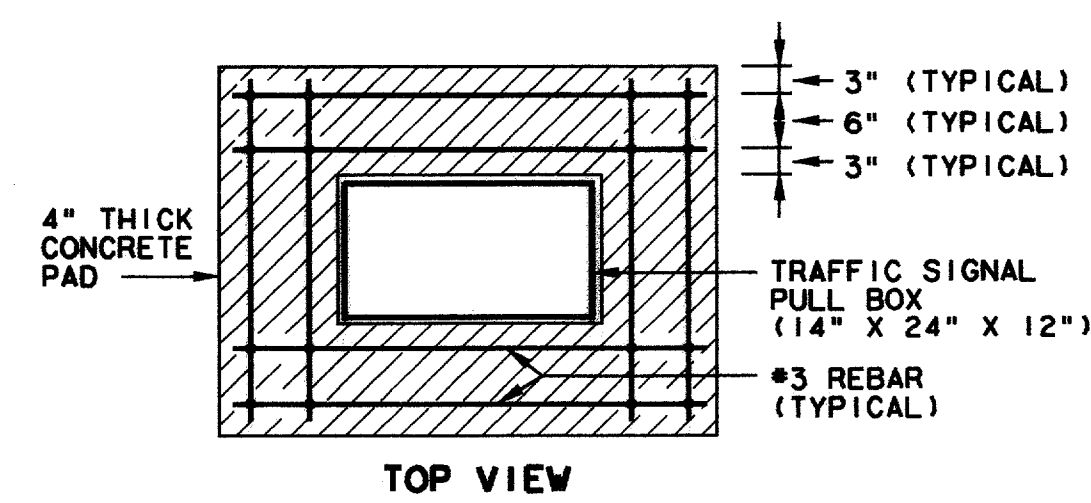




NOTE: STRAPS SHALL BE INSTALLED EVERY 5' STARTING AT GROUND

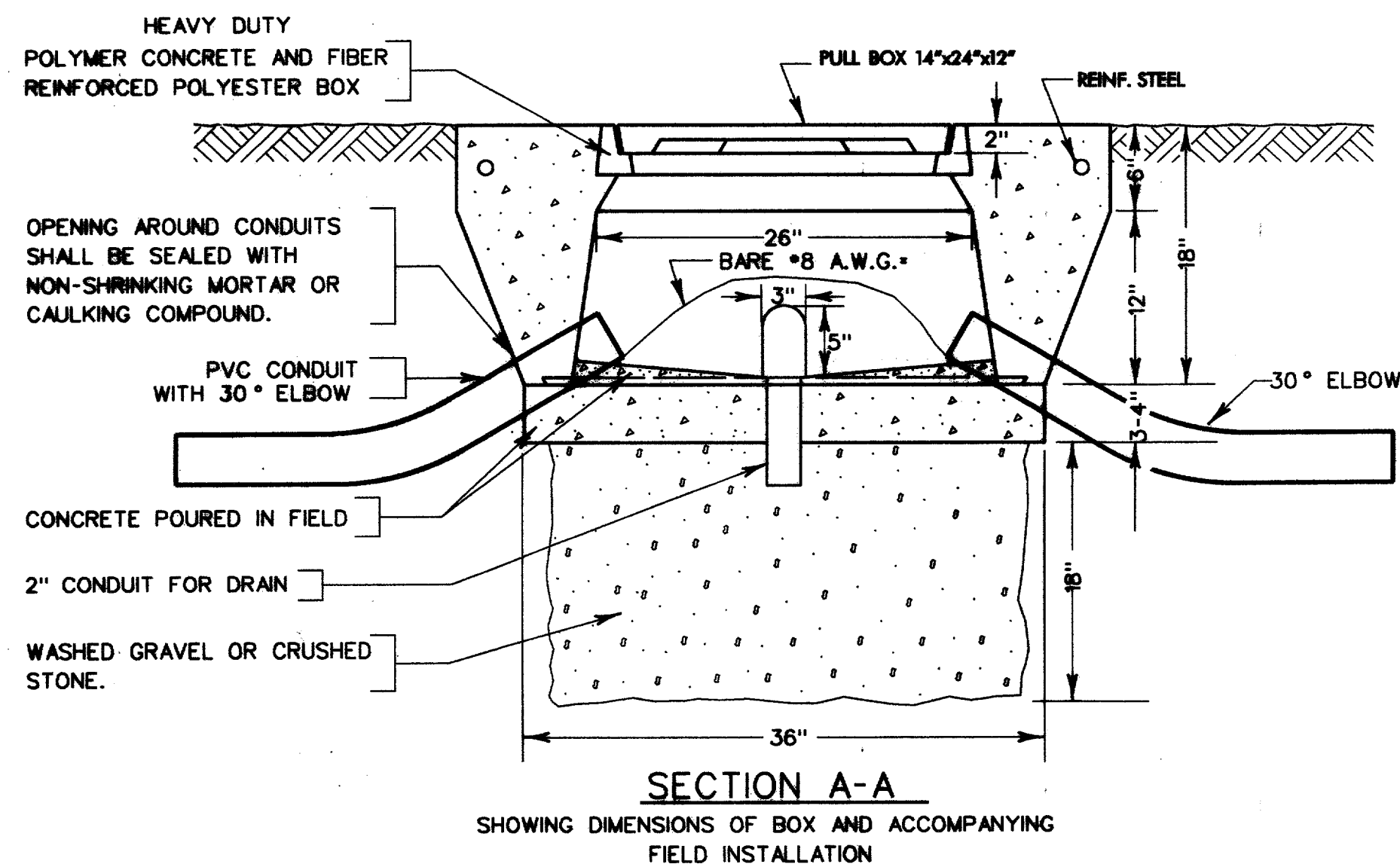
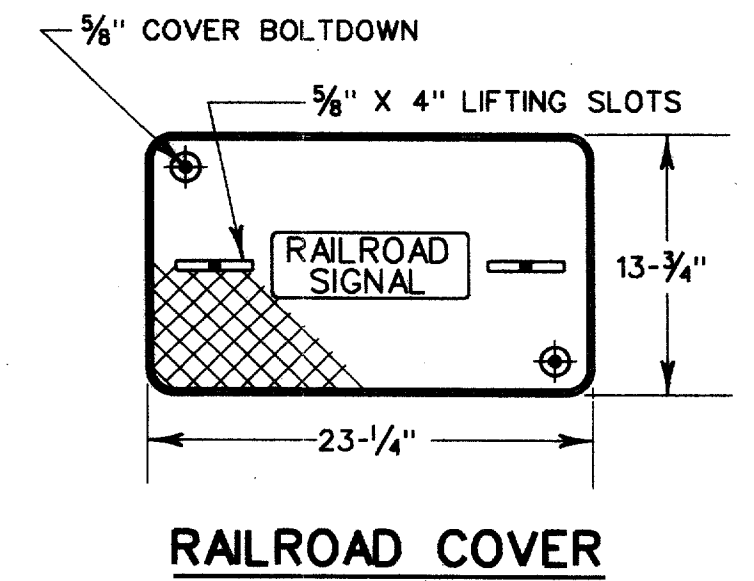
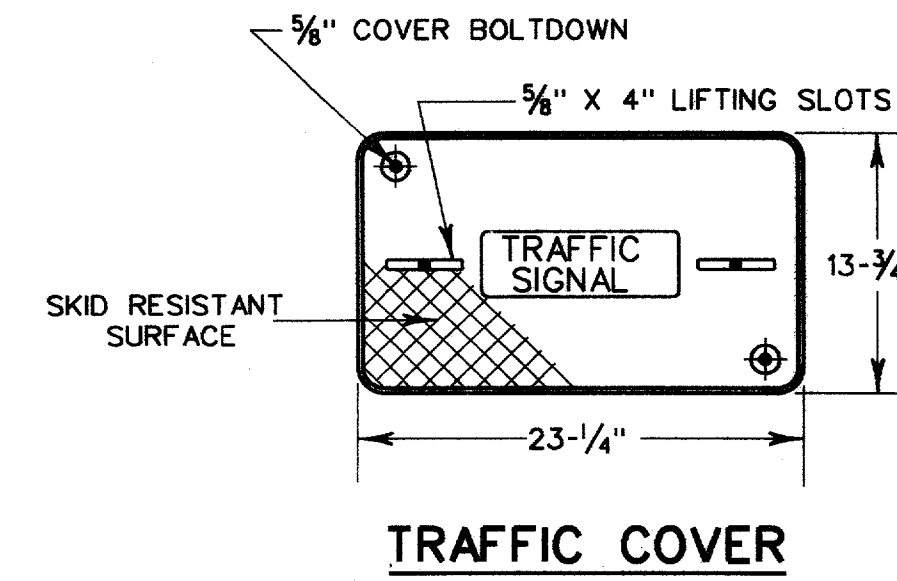
**POWER SERVICE CONNECTION DETAILS**

CONTRACTOR SHALL MOUNT EQUIPMENT ON POLES AS DIRECTED BY THE POWER COMPANY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY TUE PRIOR TO CONSTRUCTION.

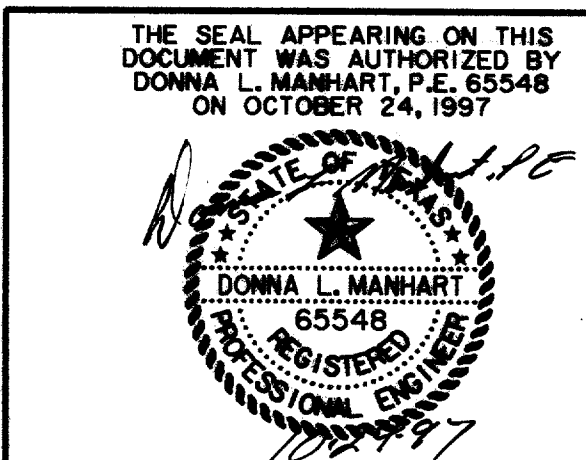


NOTES: 1. PULL BOX LID SHALL BE CAST IRON.  
2. COVER SHALL BE FABRICATED TO FIT INTO A RECESSED LIP AND SECURED WITH 2 BRASS OR BRONZE BALLS AND NUTS. LIDS SHALL BE PROVIDED WITH A DROP TYPE HANDLE TO FACILITATE REMOVAL.

**DETAIL OF PULL BOX**

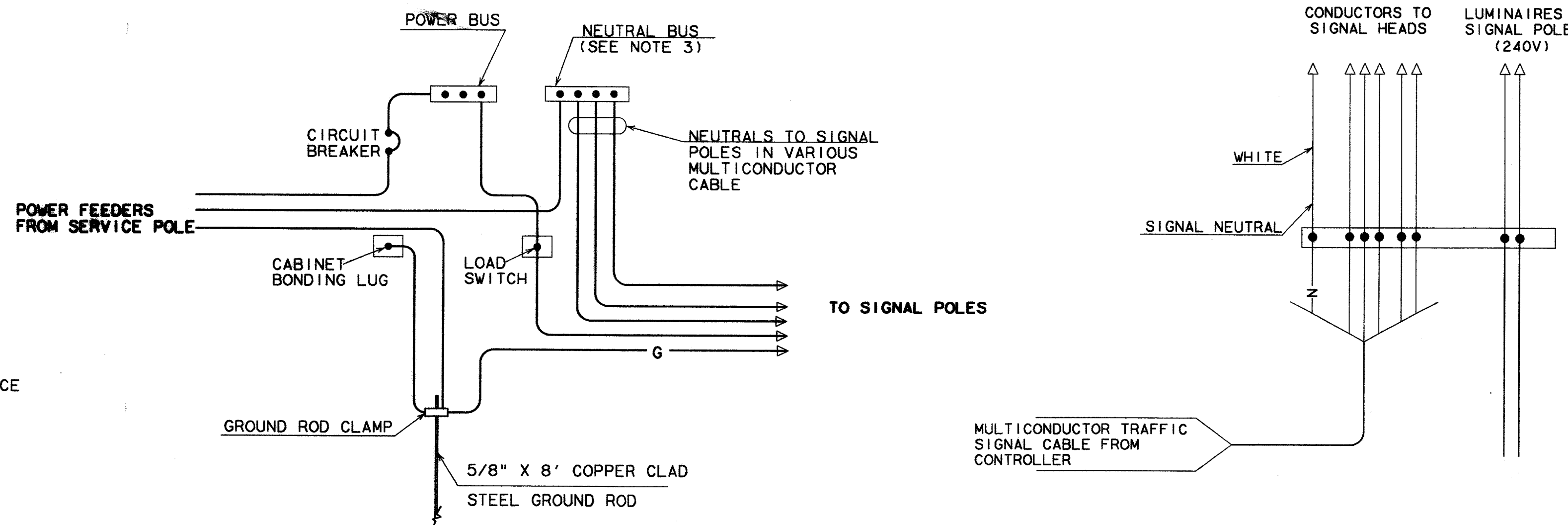
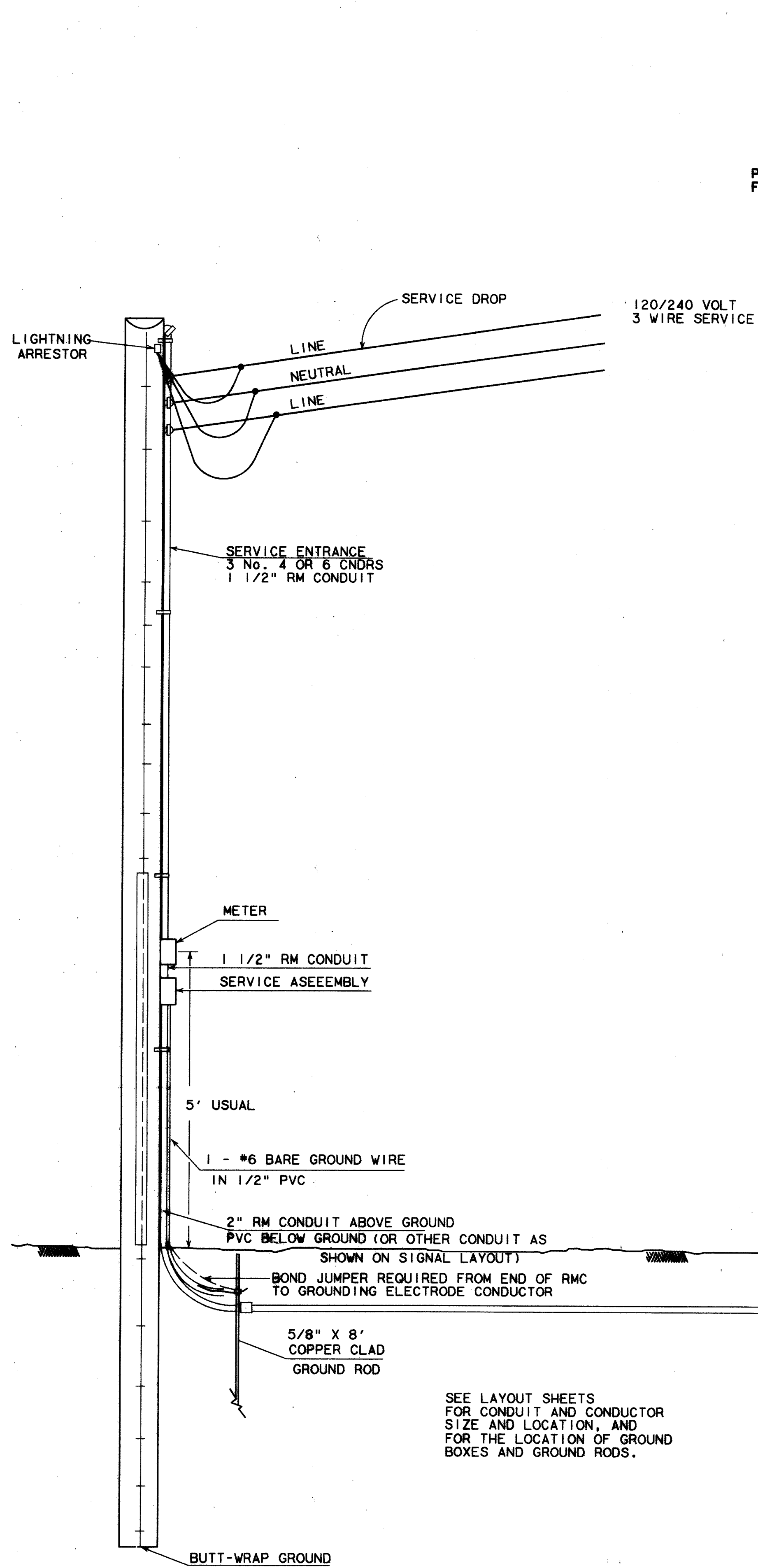


NOTES:  
1. ALL PULLBOXES NOT SET IN WALKS OR PAVED MEDIANS SHALL HAVE CONCRETE APRON.  
2. TYPE 'C' PULLBOXES BY ALL CONTROLLERS SHALL HAVE CONCRETE APRON.

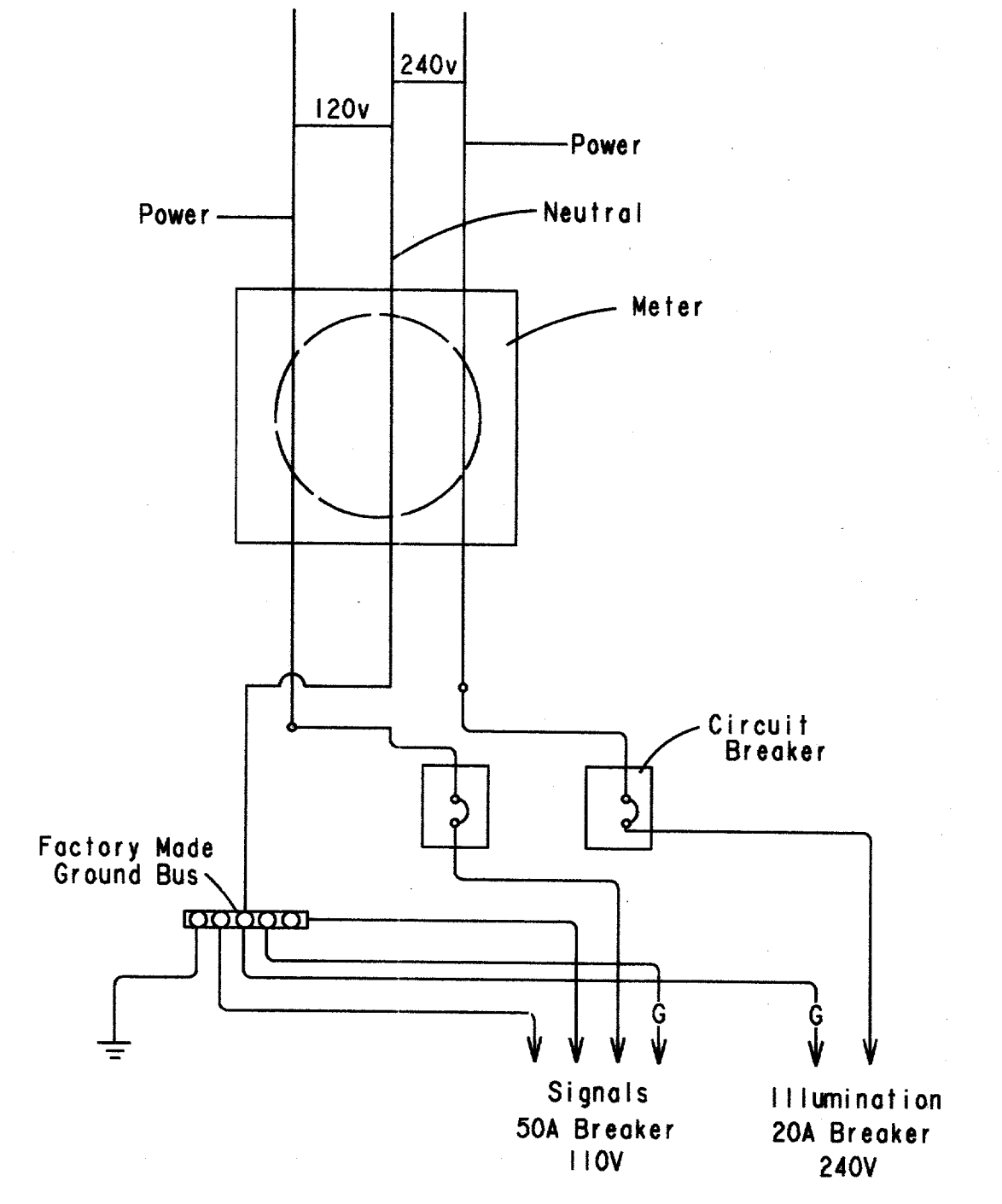


PULL BOX AND SERVICE CONNECTION DETAILS							
ARAPAHO ROAD							
ADDISON ROAD TO DALLAS NORTH TOLLWAY							
TOWN OF ADDISON, TEXAS							
Hull-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin							
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.	
HZI	HZI	DLM	NTS	OCT 97	1772-01	S-II	

RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



CONNECTIONS AT SIGNAL CONTROLLERS

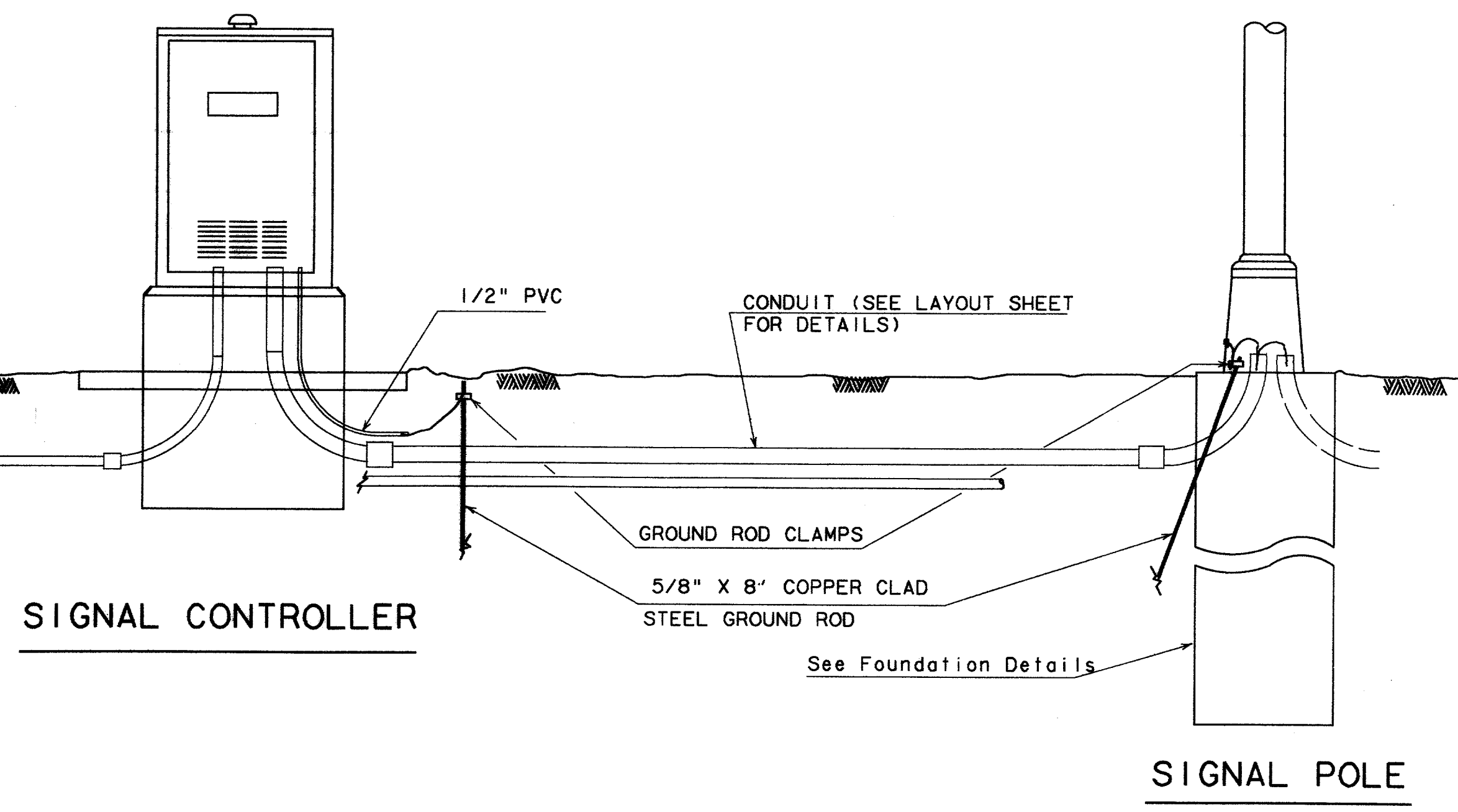


SERVICE ASSEMBLY SCHEMATIC

120/240 VOLTS - THREE WIRE  
TYPE D

NOTES:

1. Luminaire conductors should not be looped through controller cabinet.
2. Electrical system to include an equipment grounding conductor noted here as "G".  
arrestors and surge protectors are to be bonded to grounding conductor.
3. Bond neutral bus to cabinet bonding lug when required elsewhere on the plans or when required by the Town of Addison.
4. Internally lighted street name signs (ILSN), when required, shall be in accordance with the item "Internally Lighted Street Name Signs".



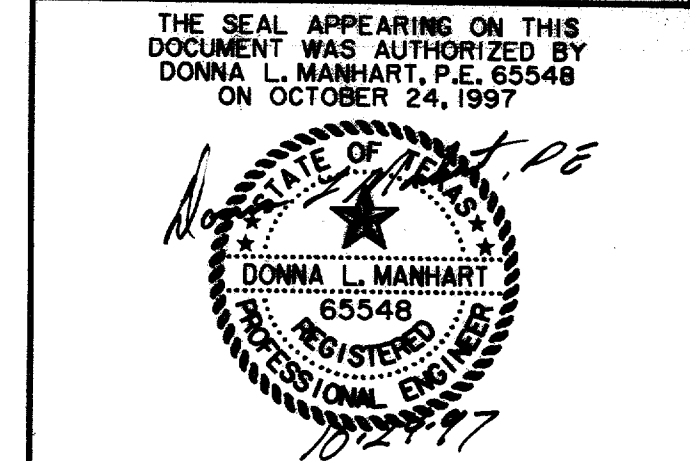
SEE LAYOUT SHEETS FOR CONDUIT AND CONDUCTOR SIZE AND LOCATION, AND FOR THE LOCATION OF GROUND BOXES AND GROUND RODS.

TYPE D SERVICE POLE

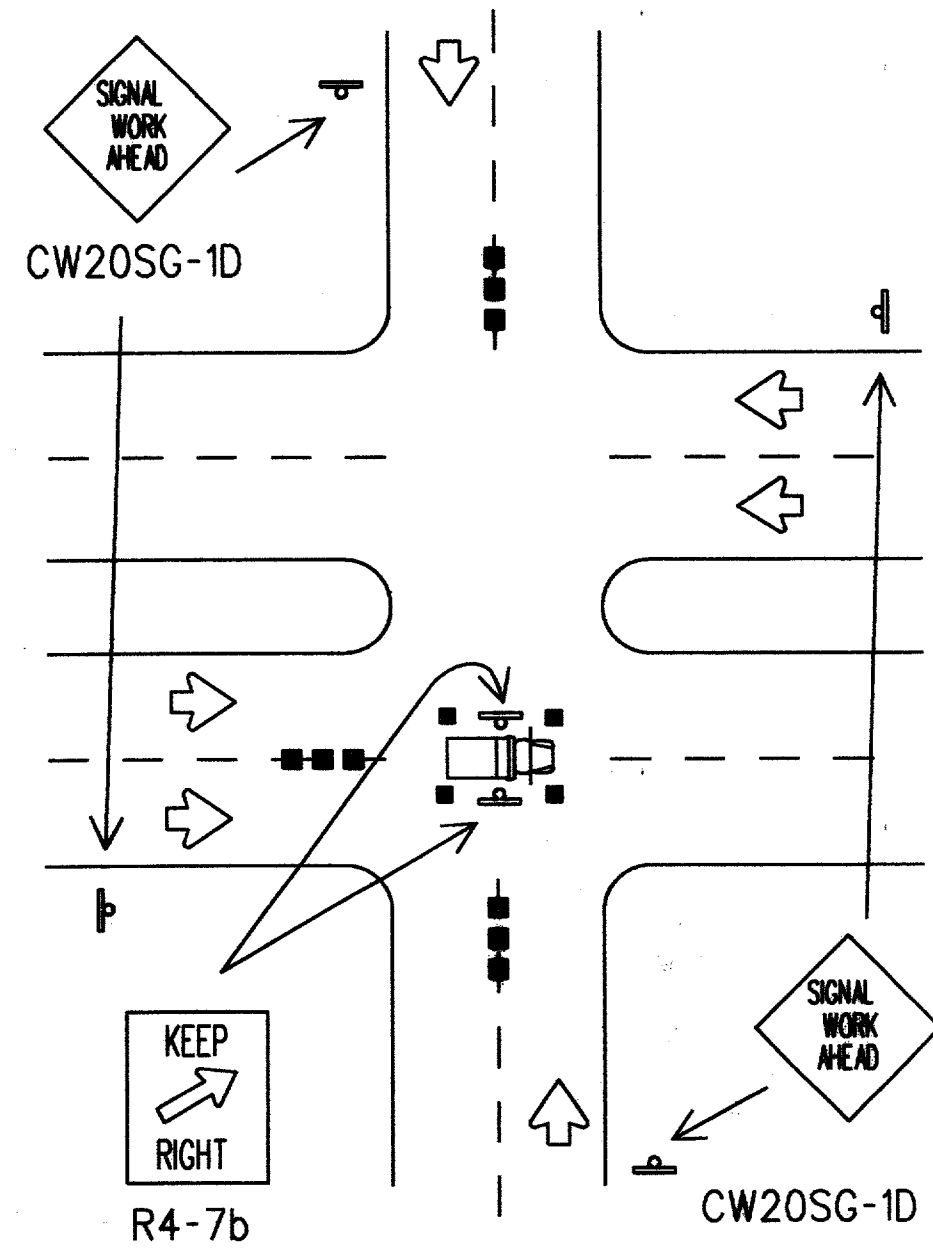
(TIMBER POLE SHOWN, SEE ELECTRICAL DETAILS, LAYOUT SHEETS, AND ELECTRICAL SERVICE DATA SHEET FOR SERVICE REQUIRED AND FOR DETAILS.)

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

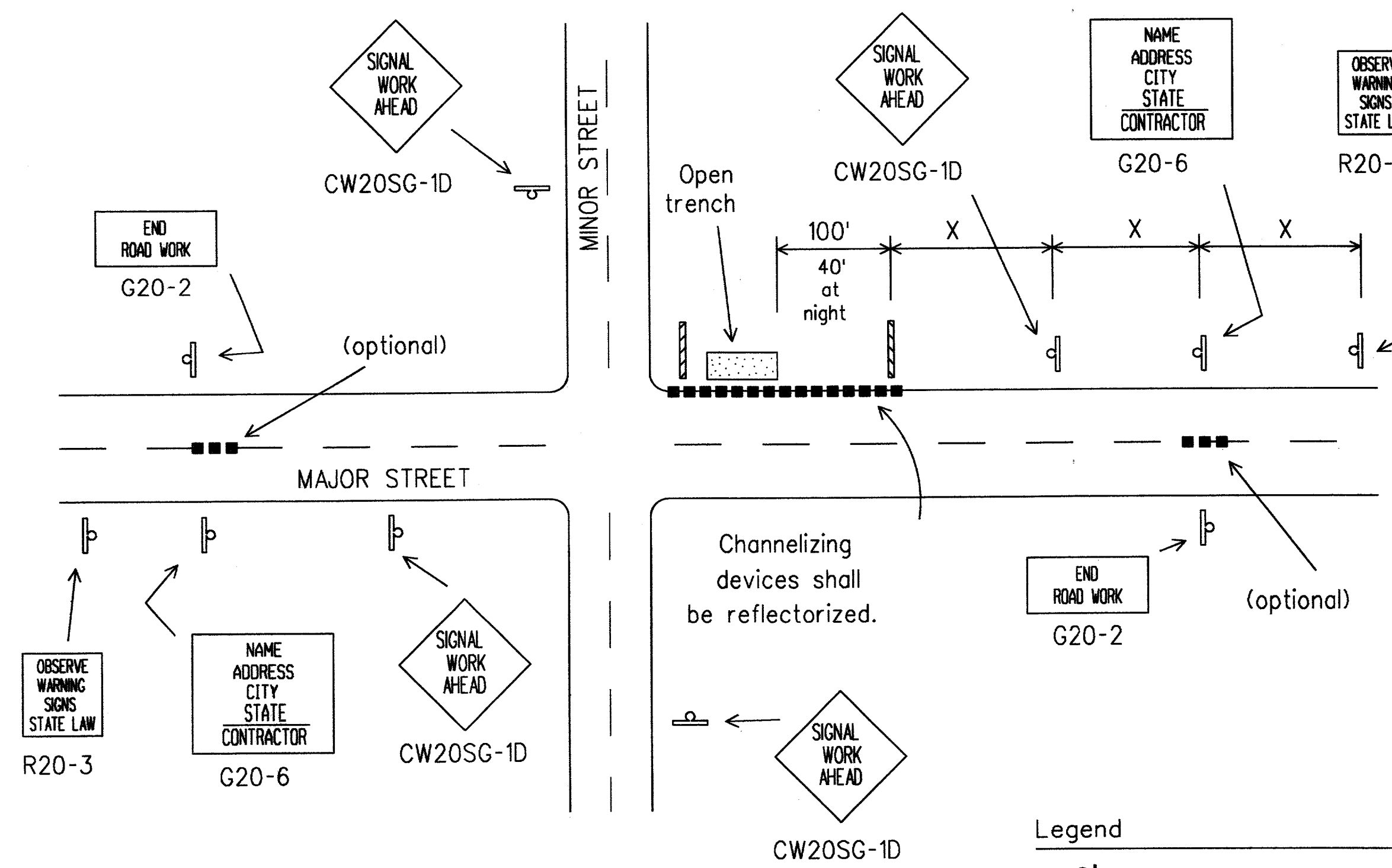


TRAFFIC SIGNAL CABINET POWER, GROUNDING AND LRT SIGNAL MOUNTING						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DLM	NTS	OCT 97	1772-01	S-12



TYPICAL HANGING SIGNAL INSTALLATIONS

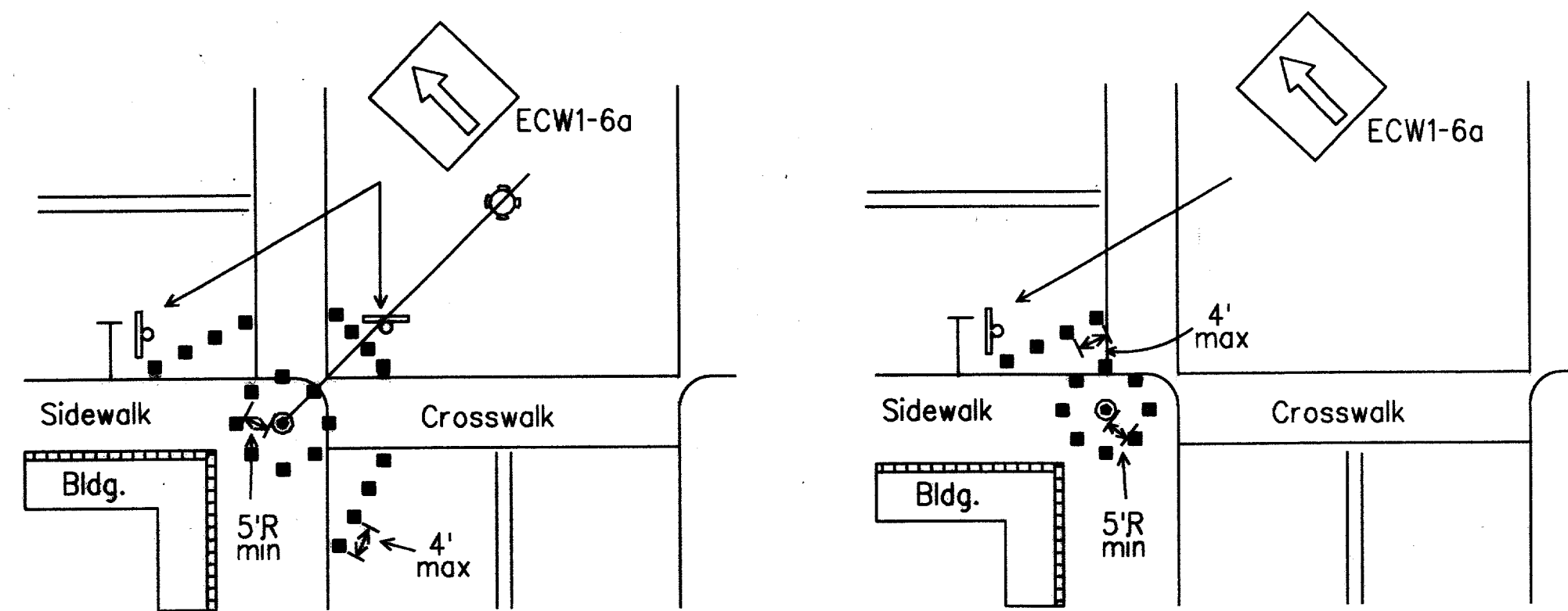
Advance warning channelizing devices are optional.



TYPICAL ADVANCE SIGNING

Legend

- Heavy Work Vehicle
- Type I Barricade
- Channelizing Devices



Channelizing devices should not be placed closer than 5 foot radius (minimum) to signal poles.  
 Parking may be eliminated by placing channelizing devices in spaces.  
 If pedestrian walkways are blocked, refer to TMUTCD.

TYPICAL RESTRICTED PEDESTRIAN MOVEMENTS

Typical channelizing device is the 28" cone. Plastic drums may be used if approved by the Engineer. Metal drums shall NOT be used as a channelizing device or sign support.

For several closely adjoining projects, advance signing may not be required in advance of each intersection, but only in advance of the intersections at the project limits. See details elsewhere in the plans for advance signing requirements.

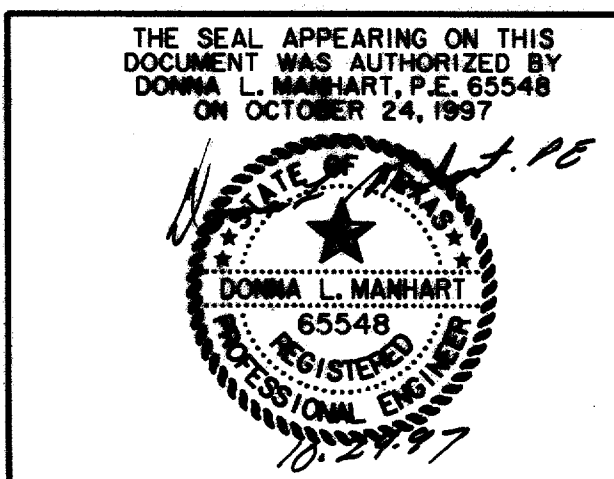
Advance signs and barricades shall be in place when signal construction operations are in progress. The contractor may remove advance signs and barricades when no construction operations are underway if permitted elsewhere in the plans. Obstructions or hazards at the work area shall be clearly marked and delineated at all times.

All holes, trenches or other hazardous areas shall be adequately protected by barricades, lights or other protective devices. Trenches shall be covered or surrounded with orange plastic construction fence as directed by the Engineer.

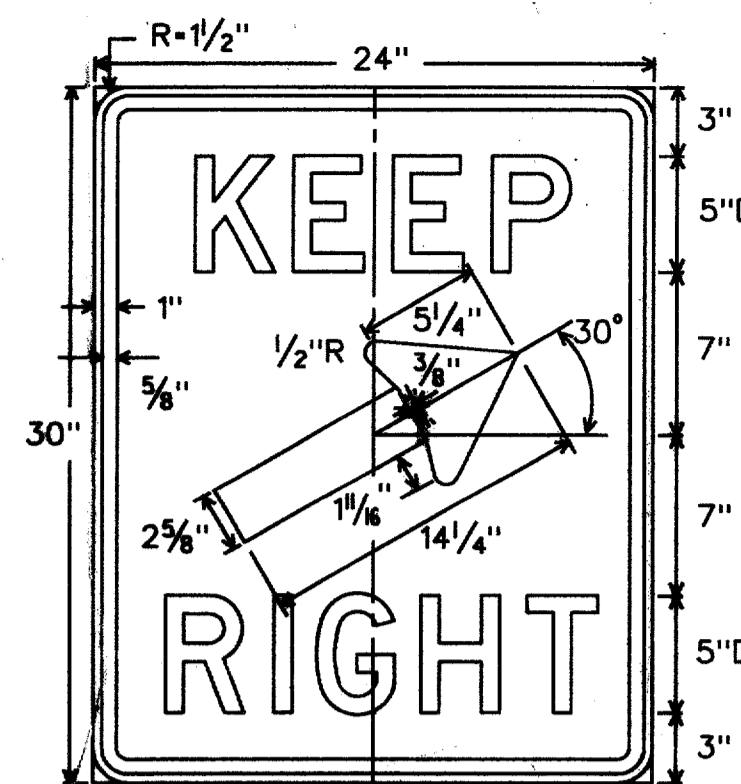
Flagger and FCW20-7a sign may be required according to field conditions. Vehicles parked in roadway shall be equipped with two strobes. High level flags at corners of vehicle may also be used. Work operations that require work vehicle in traveled way 20 minutes or less may use cones, high level flags and strobes as advance warning devices. Cones should only be placed around vehicle. Flaggers may be used on high speed rural intersections.

RECORD DOCUMENTS 6/9/2000

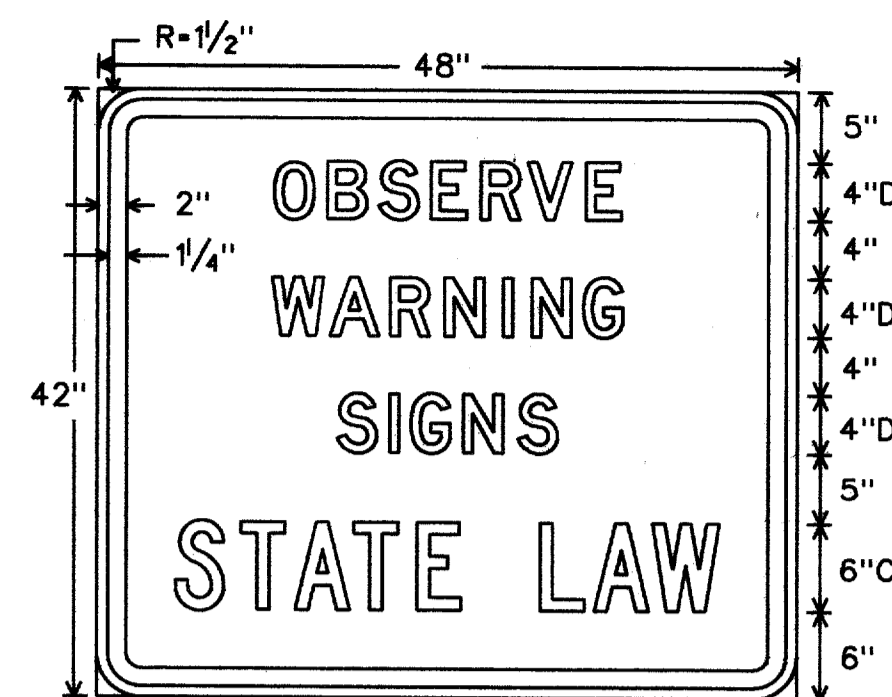
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



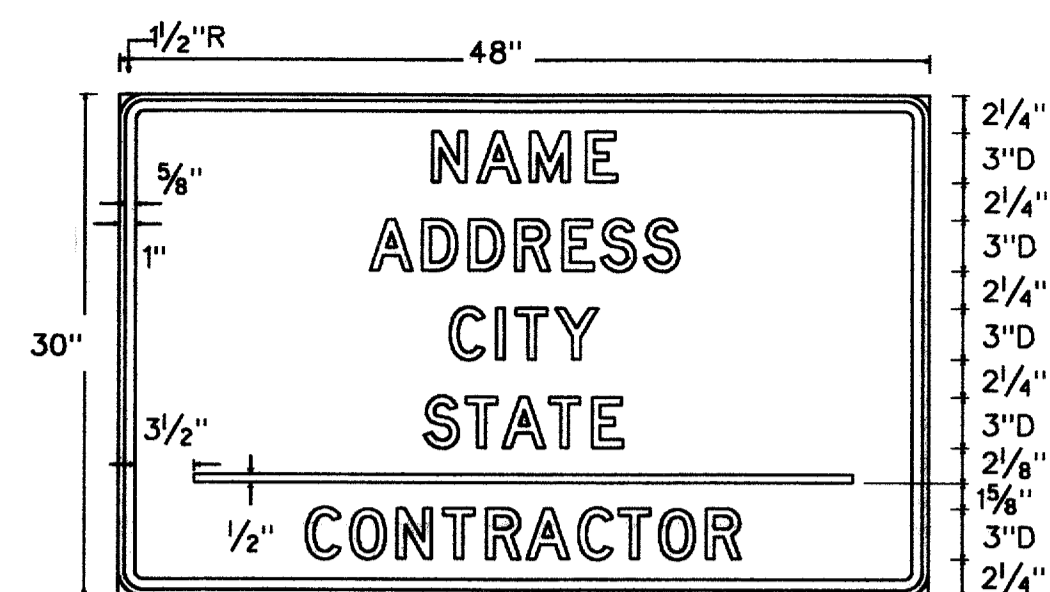
TRAFFIC SIGNAL INSTALLATION TYPICAL DETAILS						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Hult-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tulsa						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DLM	NTS	OCT 97	1772-01	S-13



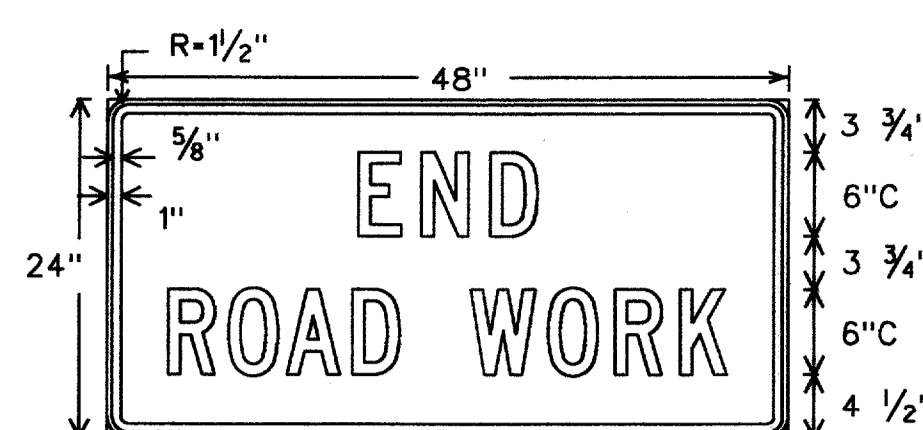
R4-7b  
24" X 30"  
Letters - Black  
Symbol - Black  
Border - Black  
Background - White Refl.



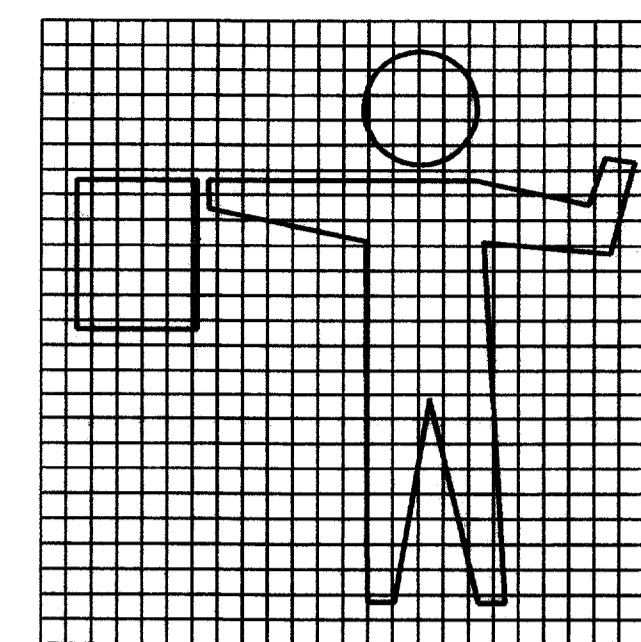
R20-3  
48" X 42"  
Letters - Black  
Border - Black  
Background - White Refl.



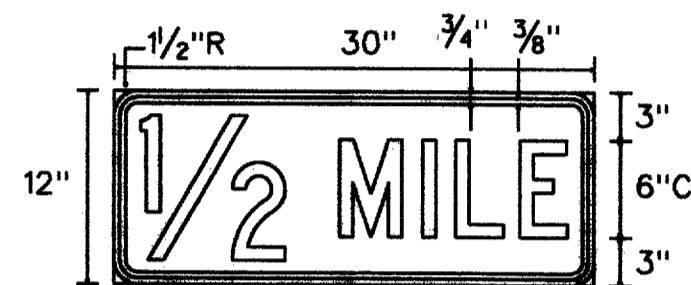
G20-6  
48" X 30"  
Letters - Black  
Border - Black  
Background - Orange or White Refl.



G20-2a  
48" X 24"  
Letters - Black  
Border - Black  
Background - Orange Refl.



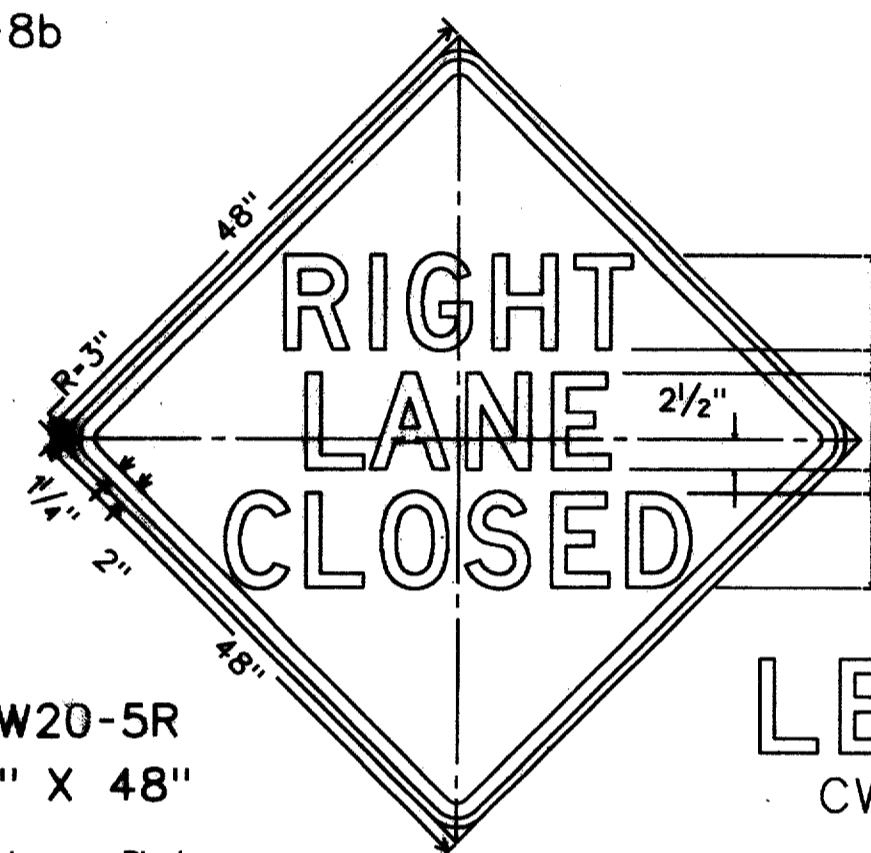
R4-8b



Distance Plaque  
30" X 12"

Alternate legends

- 1 MILE 6" C
- 1500 FT 6" C
- 1000 FT 6" C
- 500 FT 6" C

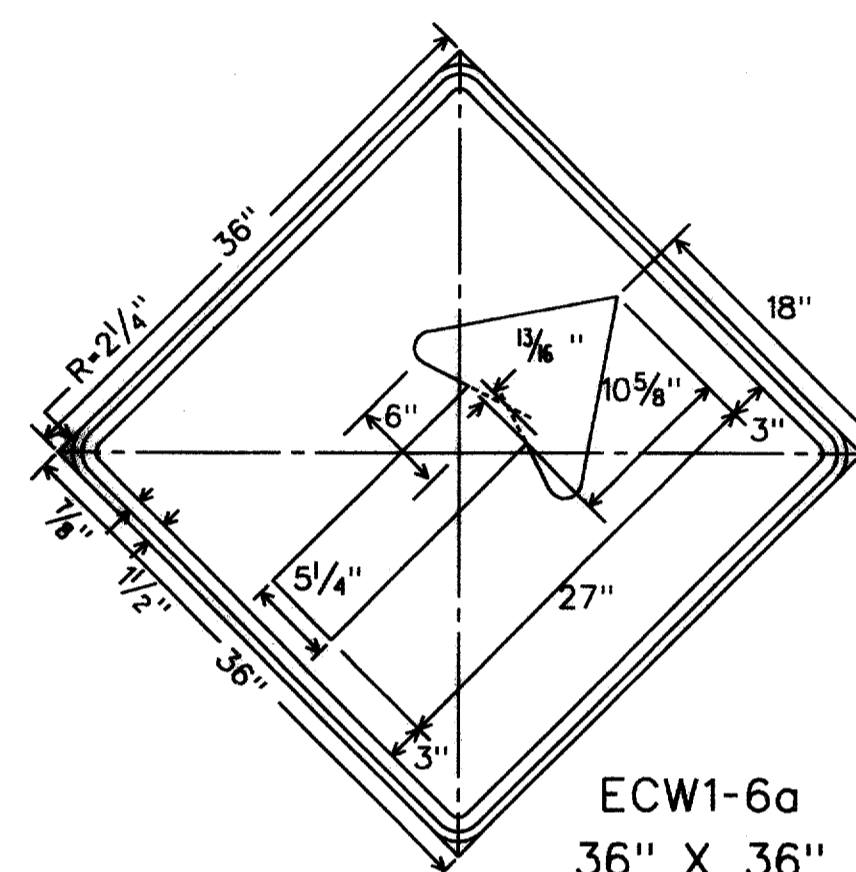


CW20-5R  
48" X 48"

Legend - Black  
Border - Black  
Background - Orange Refl.

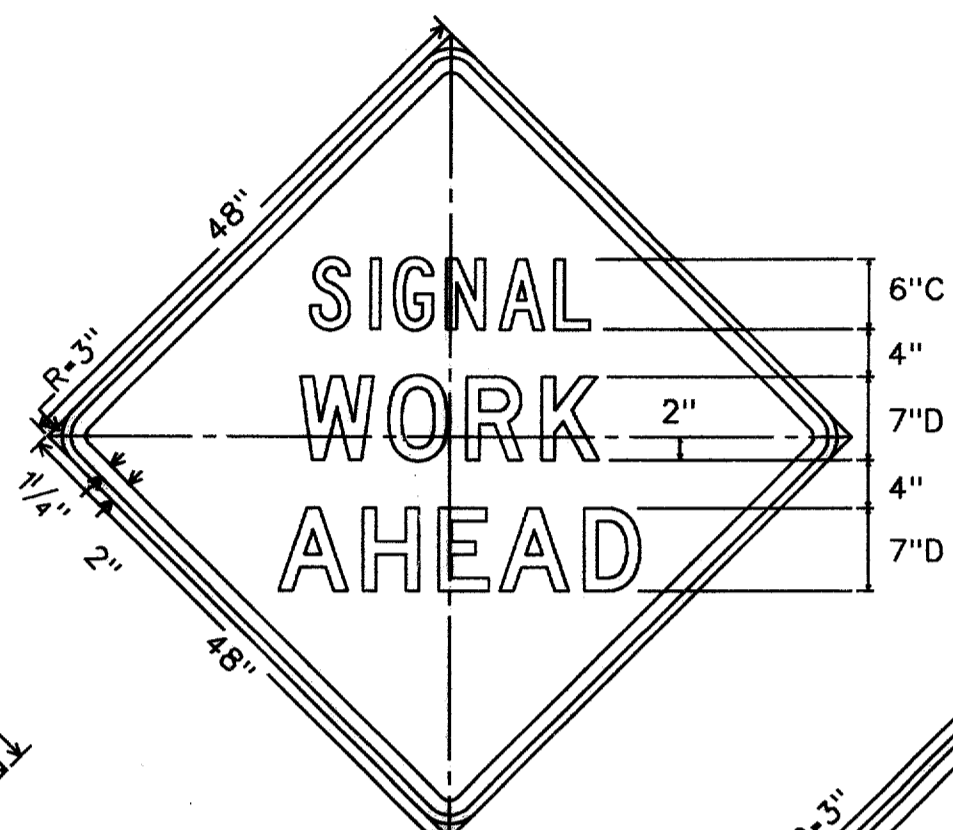


CW20-5L



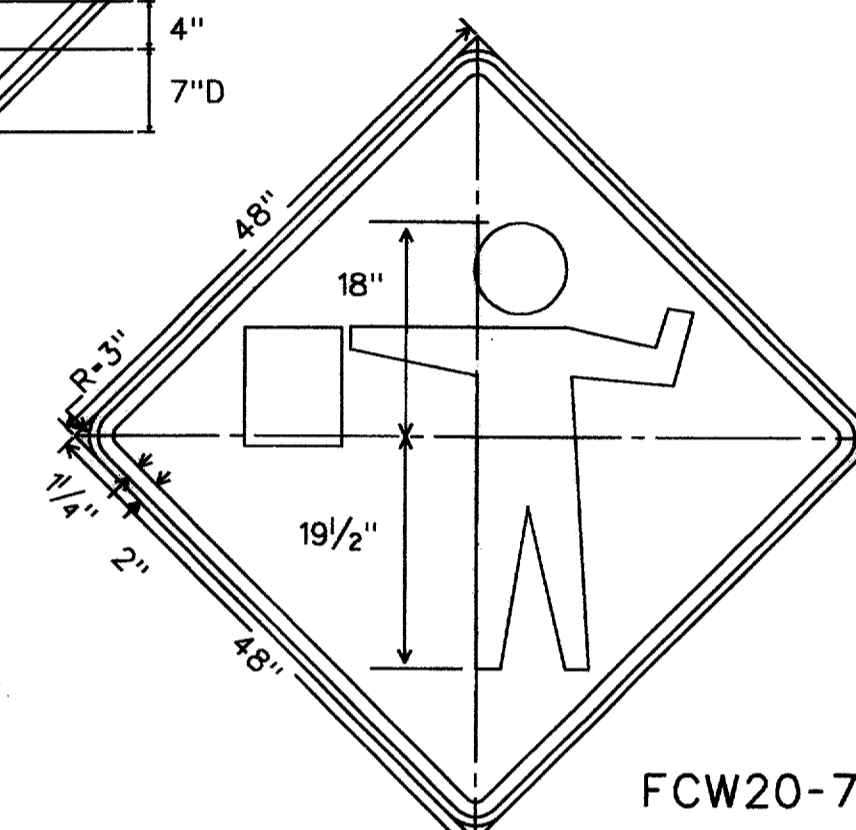
ECW1-6a  
36" X 36"

Legend - Black  
Border - Black  
Background - Orange Refl.



CW20SG-1D  
48" X 48"

Letters - Black  
Border - Black  
Background - Orange Refl.

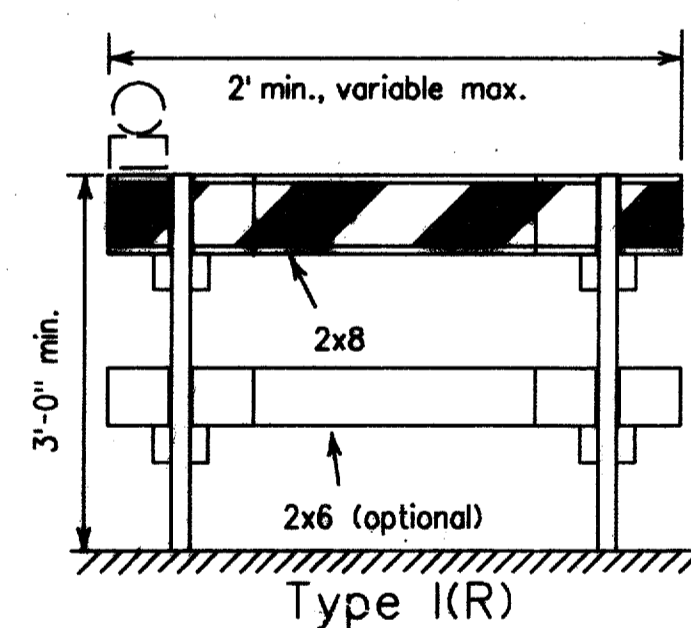


FCW20-7a  
48" X 48"

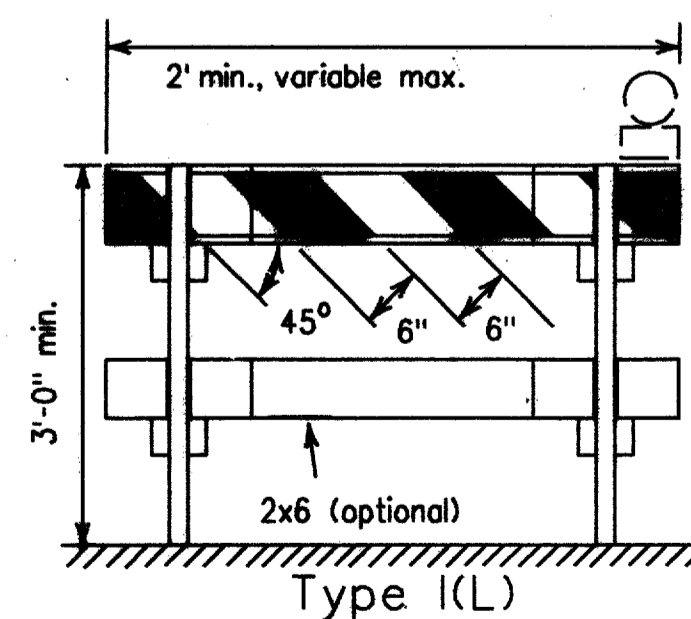
Legend - Black  
Border - Black  
Background - Orange Refl.

TYPICAL SIGNS USED IN TRAFFIC SIGNAL CONSTRUCTION AREAS

TYPE I BARRICADES



Type I(R)

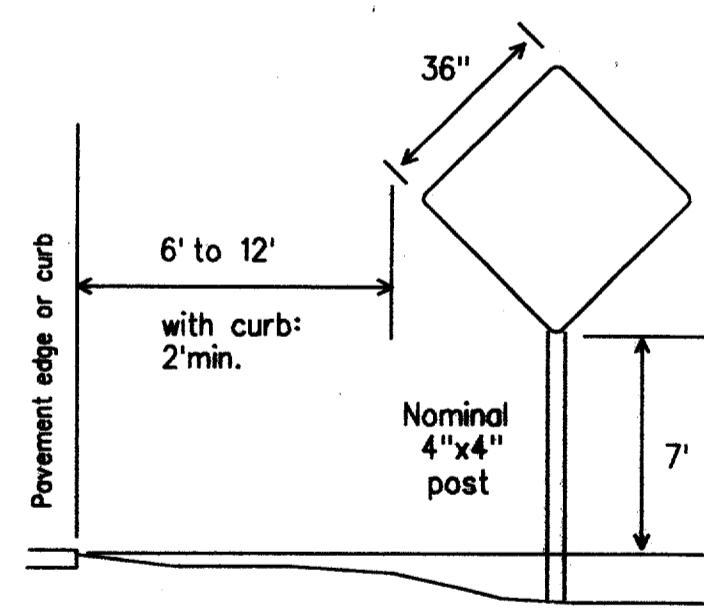


Type I(L)

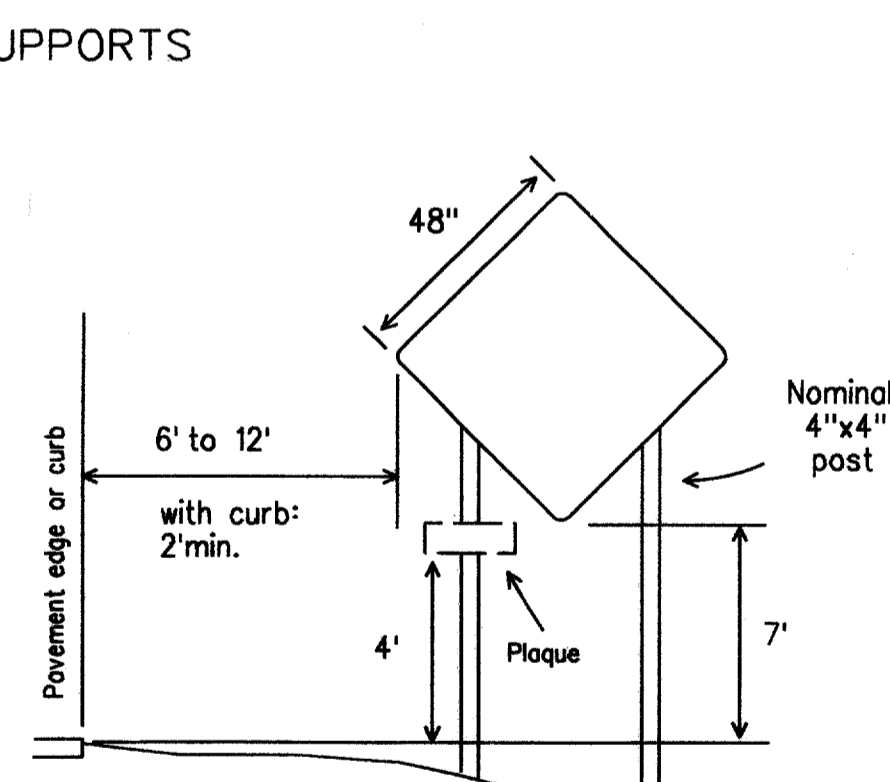
For Type I and II Barricades, both sides of the rails shall have reflective orange and reflective white striping.

TYPICAL SIGN SUPPORTS

FIXED SUPPORTS



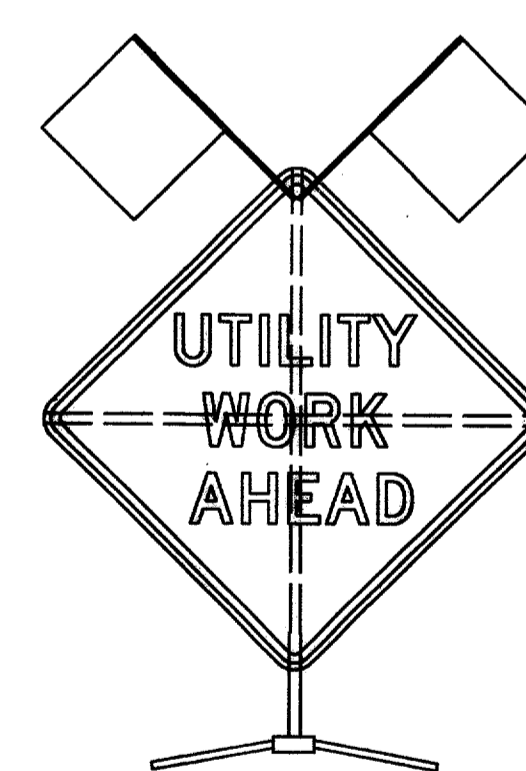
WOOD POST SIGN SUPPORT: for 36" x 36" and smaller warning signs, and other signs having an area not exceeding 10 sq.ft.



WOOD POST SIGN SUPPORT: for 48" x 48" warning sign.

Signs erected on fixed supports shall be at a minimum height of 7 feet. Embedment depth for wood sign supports and post type barricades should be 3 feet minimum, unless specified elsewhere in the plans. Driveable sign supports may be used and shall be installed in accordance with the manufacturers recommendations.

PORTABLE SUPPORTS



SIGN SUPPORT WEIGHTS

Where sign supports require the use of weights to keep from turning over, the use of some type of sandbag is recommended. The use of pieces of rock, concrete, iron, steel or other solid objects will not be permitted. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners.

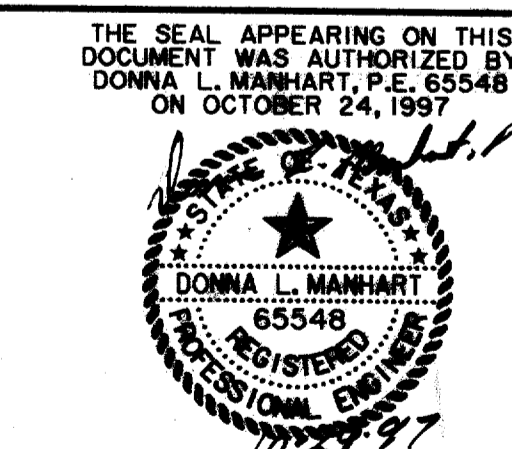
REMOVING OR COVERING

When sign messages may be confusing or no longer apply, the signs and supports shall be removed from roadway and shoulder, or the signs shall be completely covered. Turning signs from motorists view will not be allowed. When signs are covered the material used shall be opaque, such as heavy mil black plastic. Burlap shall not be used to cover signs. Signs shall be removed upon completion of the work.

Duct tape or other adhesive material shall not be affixed to sign face.

RECORD DOCUMENTS 6/9/2000

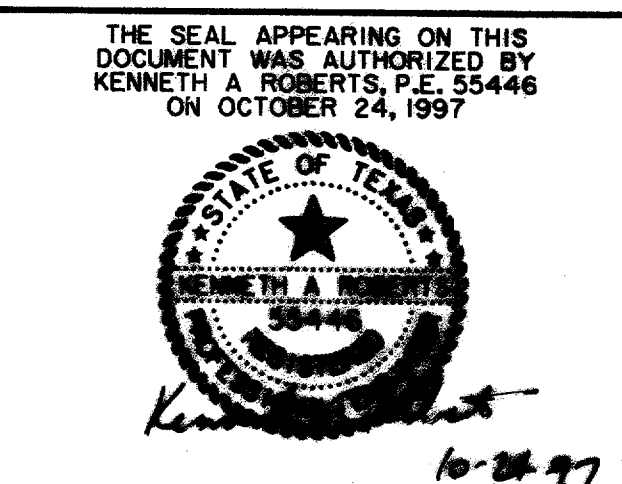
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



TRAFFIC SIGNAL INSTALLATION BARRICADES AND SIGNS						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	DLM	NTS	OCT 97	1772-01	S-14

STATION	EXCAVATION AREA (SF)	EMBANKMENT AREA (SF)	EXCAVATION VOLUME (CY)	EMBANKMENT VOLUME (CY)	15% SHRINK. VOLUME (CY)	TOTAL EMBANK. VOLUME (CY)	NET VOLUME (CY)	MASS VOLUME (CY)	STATION
4,035.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,035.36
4,050.00	5.67	22.50	1.54	6.10	0.91	7.01	(5.48)	(5.48)	4,050.00
4,100.00	34.38	18.54	37.08	38.00	5.70	43.70	(6.62)	(12.09)	4,100.00
4,150.00	18.54	25.47	49.00	40.75	6.11	46.86	2.14	(9.96)	4,150.00
4,200.00	48.24	30.06	61.83	51.42	7.71	59.13	2.70	(7.25)	4,200.00
4,250.00	88.92	34.11	127.00	59.42	8.91	68.33	58.67	51.42	4,250.00
4,300.00	84.51	40.23	160.58	68.83	10.33	79.16	81.43	132.84	4,300.00
4,350.00	98.28	33.39	169.25	68.17	10.23	78.39	90.86	223.70	4,350.00
4,400.00	118.17	32.22	200.42	60.75	9.11	69.86	130.55	354.26	4,400.00
4,450.00	128.07	0.00	228.00	29.83	4.48	34.31	193.69	547.95	4,450.00
4,500.00	97.11	1.35	208.50	1.25	0.19	1.44	207.06	755.01	4,500.00
4,550.00	110.61	2.52	192.33	3.58	0.54	4.12	188.21	943.22	4,550.00
4,600.00	36.00	7.29	135.75	9.08	1.36	10.45	125.30	1,068.53	4,600.00
4,650.00	45.99	6.75	75.92	13.00	1.95	14.95	60.97	1,129.49	4,650.00
4,700.00	28.25	19.91	68.74	24.69	3.70	28.39	40.35	1,169.85	4,700.00
4,750.00	2.43	78.45	28.41	91.07	13.66	104.74	(76.33)	1,093.52	4,750.00
4,800.00	93.48	1.26	88.81	73.81	11.07	84.88	3.93	1,097.45	4,800.00
4,850.00	189.48	0.00	262.00	1.17	0.18	1.34	260.66	1,358.11	4,850.00
4,900.00	241.38	0.00	398.94	0.00	0.00	0.00	398.94	1,757.05	4,900.00
4,950.00	256.74	0.00	461.22	0.00	0.00	0.00	461.22	2,218.27	4,950.00
5,000.00	377.01	0.00	586.81	0.00	0.00	0.00	586.81	2,805.08	5,000.00
5,050.00	374.94	0.00	696.25	0.00	0.00	0.00	696.25	3,501.33	5,050.00
5,100.00	415.34	0.00	731.74	0.00	0.00	0.00	731.74	4,233.07	5,100.00
5,150.00	250.72	0.00	616.72	0.00	0.00	0.00	616.72	4,849.79	5,150.00
5,200.00	142.62	0.00	364.20	0.00	0.00	0.00	364.20	5,213.99	5,200.00
5,250.00	12.45	0.00	143.58	0.00	0.00	0.00	143.58	5,357.58	5,250.00
5,300.00	62.64	9.90	69.53	9.17	1.38	10.54	58.99	5,416.56	5,300.00
5,350.00	7.29	68.13	64.75	72.25	10.84	83.09	(18.34)	5,398.23	5,350.00
5,400.00	4.32	69.84	10.75	127.75	19.16	146.91	(136.16)	5,262.06	5,400.00
5,450.00	8.82	57.96	12.17	118.33	17.75	136.08	(123.92)	5,138.15	5,450.00
5,500.00	15.66	55.08	22.67	104.67	15.70	120.37	(97.70)	5,040.45	5,500.00
5,550.00	29.34	24.30	41.67	73.50	11.03	84.53	(42.86)	4,997.59	5,550.00
5,600.00	53.19	50.22	76.42	69.00	10.35	79.35	(2.93)	4,994.66	5,600.00
5,650.00	277.92	11.16	306.58	56.83	8.53	65.36	241.23	5,235.88	5,650.00
5,700.00	343.89	5.40	575.75	15.33	2.30	17.63	558.12	5,794.00	5,700.00
5,750.00	224.91	25.47	526.67	28.58	4.29	32.87	493.80	6,287.79	5,750.00
5,800.00	197.10	34.20	390.75	55.25	8.29	63.54	327.21	6,615.01	5,800.00
5,850.00	172.17	29.52	341.92	59.00	8.85	67.85	274.07	6,889.07	5,850.00
5,900.00	140.49	39.78	289.50	64.17	9.63	73.79	215.71	7,104.78	5,900.00
5,950.00	110.43	50.94	232.33	84.00	12.60	96.60	135.73	7,240.51	5,950.00
6,000.00	79.29	48.69	175.67	92.25	13.84	106.09	69.58	7,310.09	6,000.00
6,050.00	60.57	60.57	129.50	101.17	15.18	116.34	13.16	7,323.25	6,050.00
6,100.00	16.56	23.13	71.42	77.50	11.63	89.13	(17.71)	7,305.54	6,100.00
6,150.00	40.77	4.77	53.08	25.83	3.88	29.71	23.38	7,328.92	6,150.00
6,200.00	39.06	13.59	73.92	17.00	2.55	19.55	54.37	7,383.28	6,200.00
6,250.00	60.57	29.88	92.25	40.25	6.04	46.29	45.96	7,429.25	6,250.00
6,300.00	70.47	18.99	121.33	45.25	6.79	52.04	69.30	7,498.54	6,300.00
6,350.00	93.42	14.22	151.75	30.75	4.61	35.36	116.39	7,614.93	6,350.00
6,400.00	102.24	11.25	181.17	23.58	3.54	27.12	154.05	7,768.98	6,400.00
6,450.00	118.71	4.77	204.58	14.83	2.23	17.06	187.53	7,956.50	6,450.00
6,500.00	158.76	3.15	256.92	7.33	1.10	8.43	248.48	8,204.98	6,500.00
6,550.00	186.66	4.68	319.83	7.25	1.09	8.34	311.50	8,516.48	6,550.00
6,600.00	166.41	2.61	326.92	6.75	1.01	7.76	319.15	8,835.63	6,600.00
6,650.00	277.38	6.30	410.92	8.25	1.24	9.49	401.43	9,237.06	6,650.00
6,700.00	111.42	48.33	360.00	50.58	7.59	58.17	301.83	9,538.89	6,700.00
6,732.64	0.00	0.00	67.35	29.21	4.38	33.59	33.75	9,572.65	6,732.64
TOTALS			12,052.67	2,156.54	323.48	2,480.03	9,572.65	9,572.65	TOTALS

NOTE TO CONTRACTOR:  
DO NOT DISPOSE OF EXCESS  
EXCAVATION WITHOUT  
APPROVAL FROM THE TOWN.



RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON  
INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS  
NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS  
INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY  
ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A  
RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

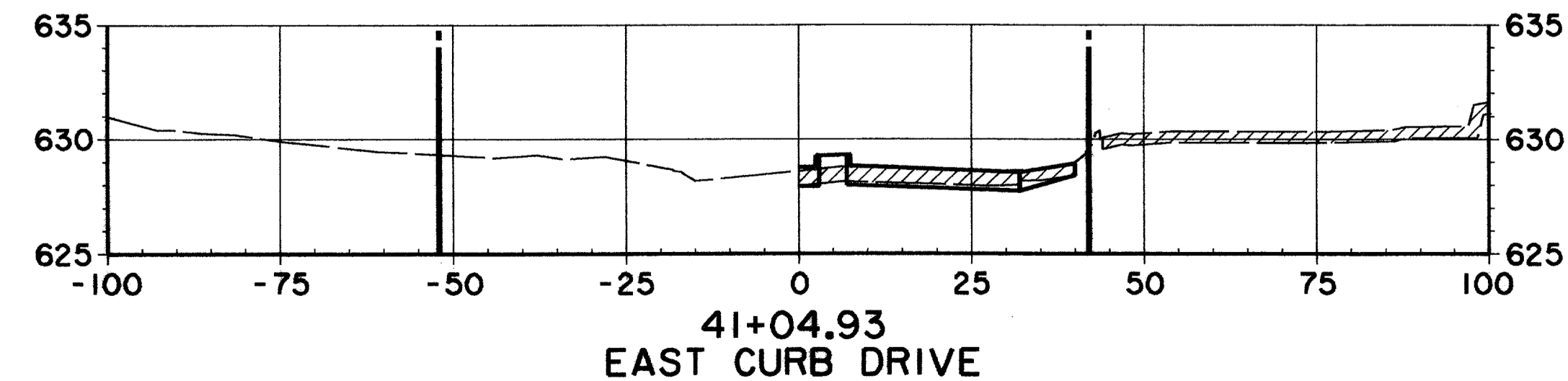
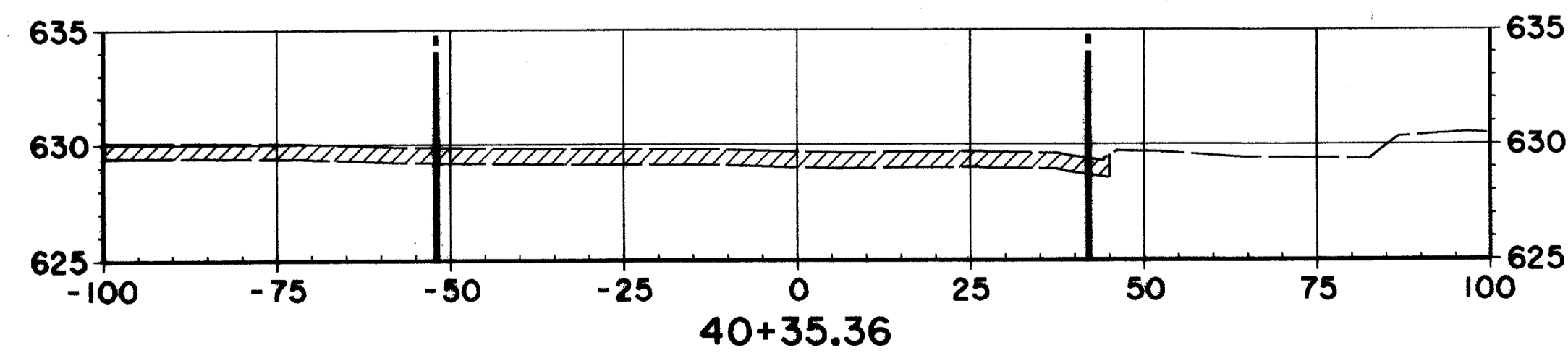
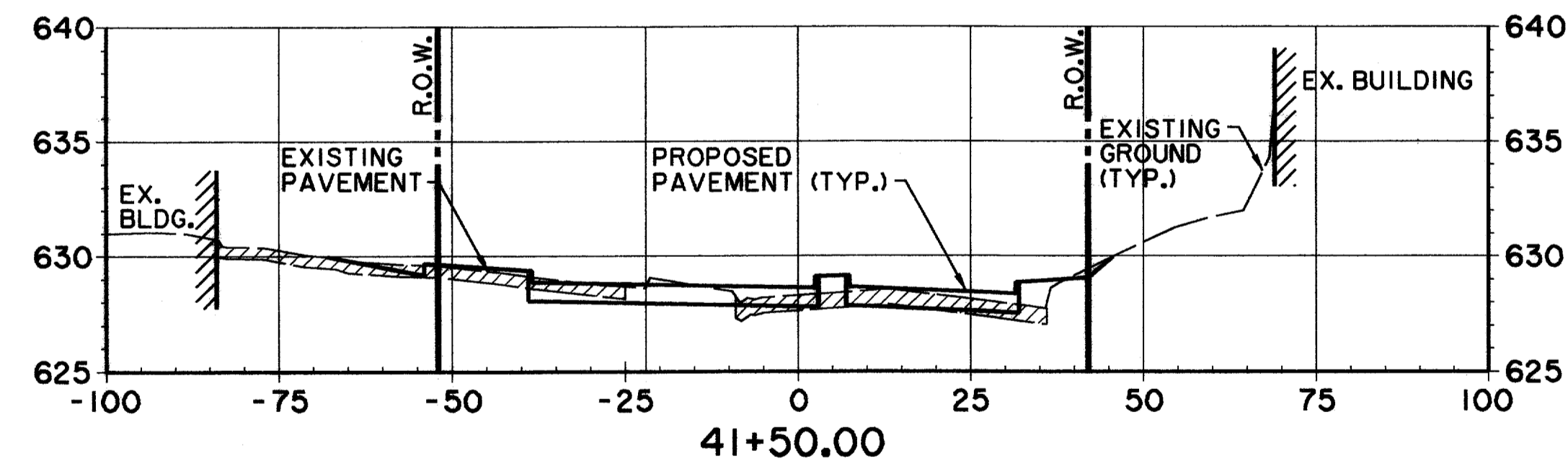
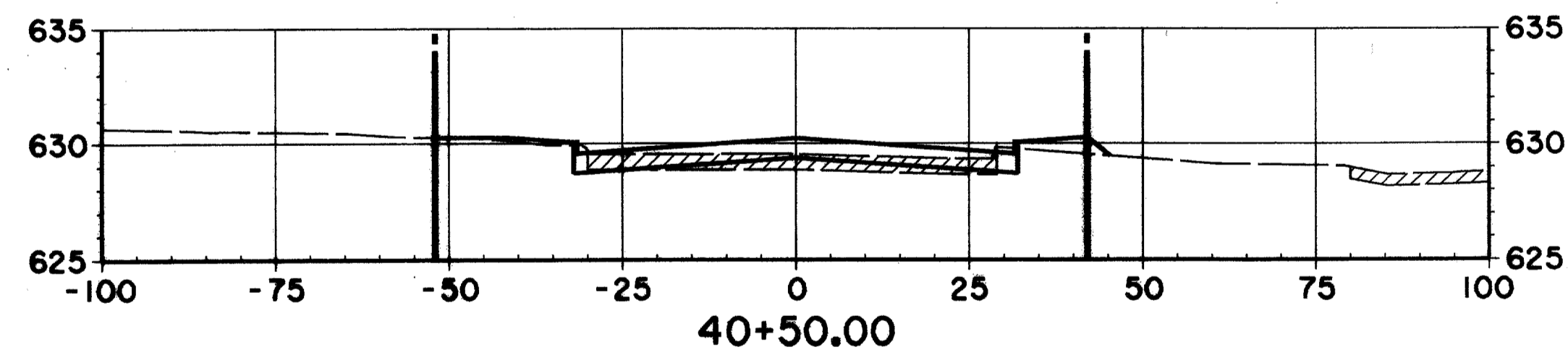
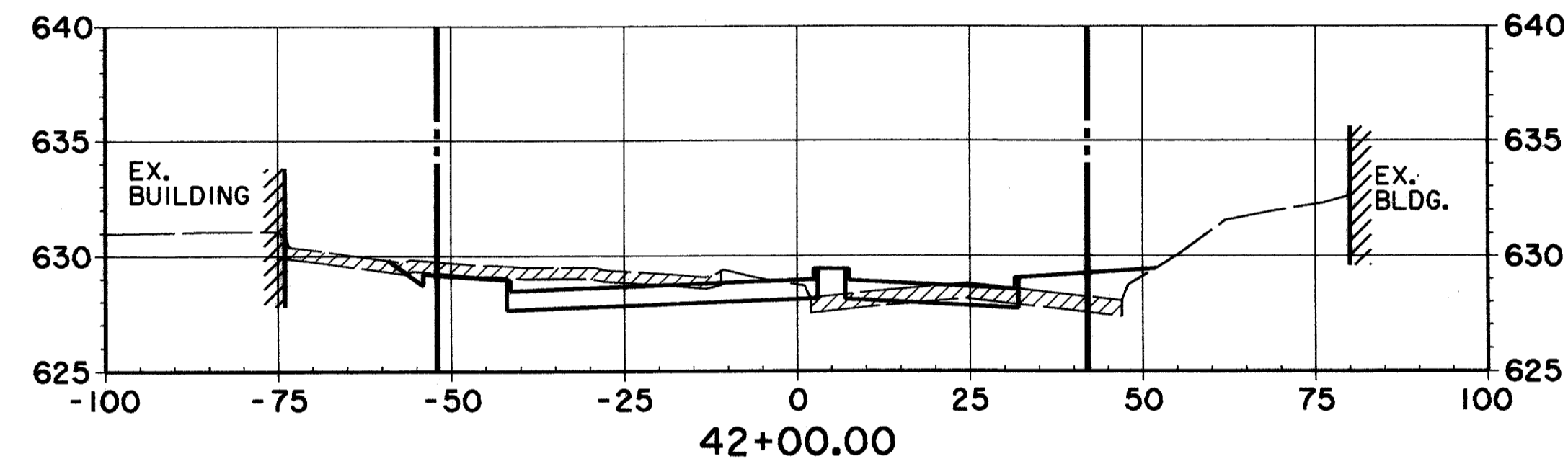
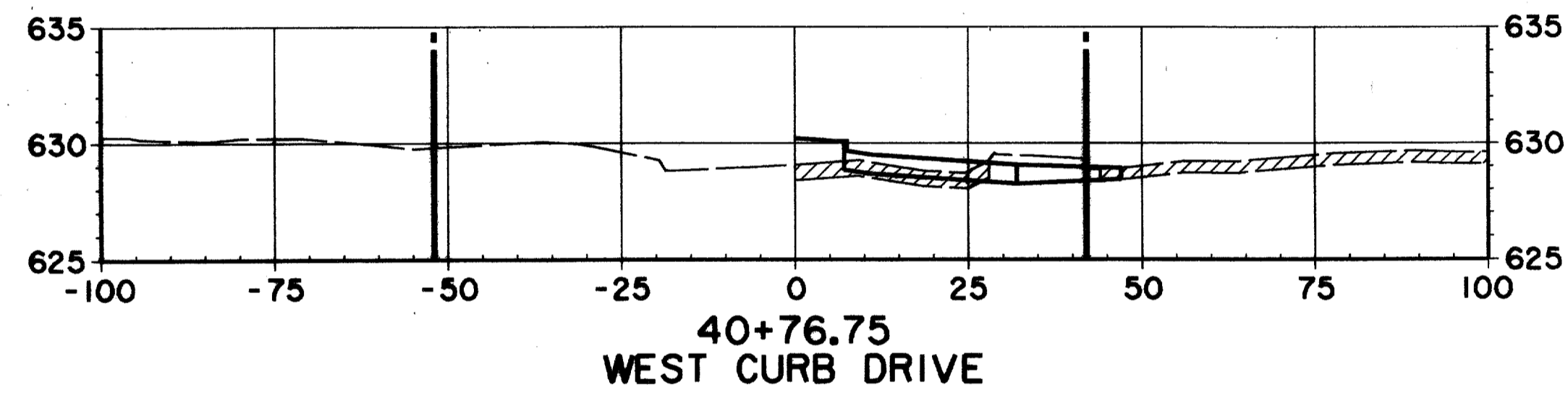
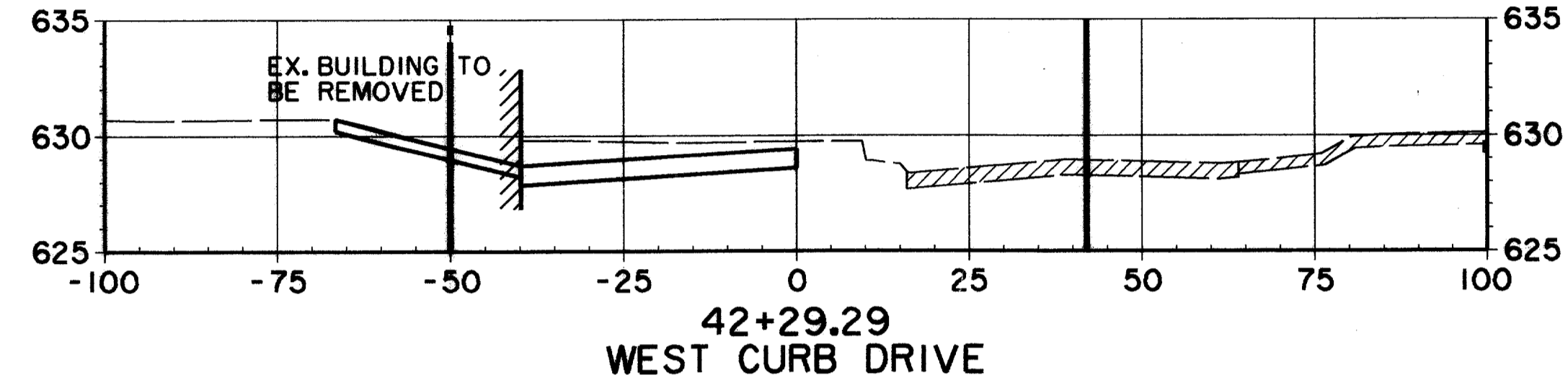
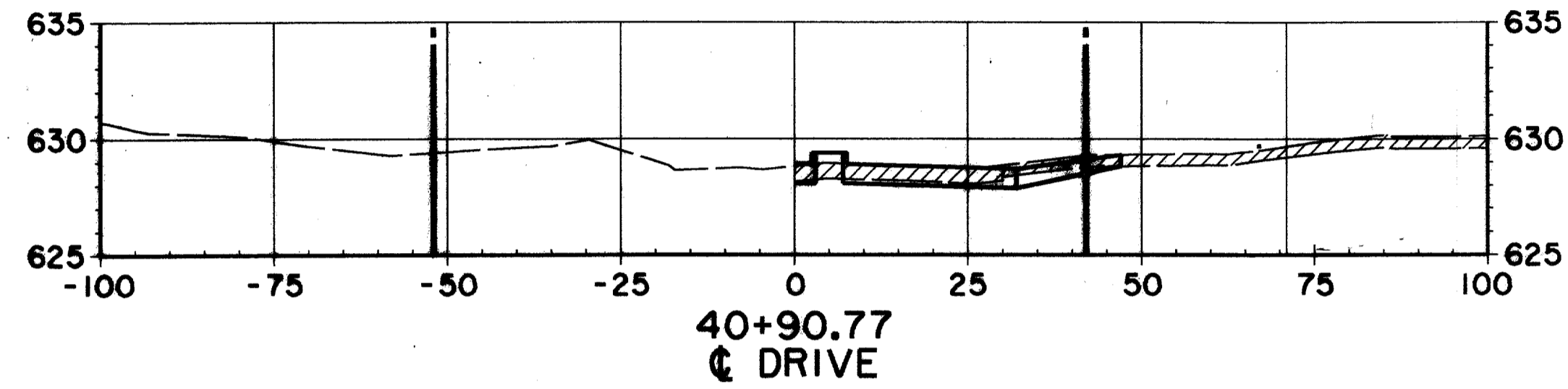
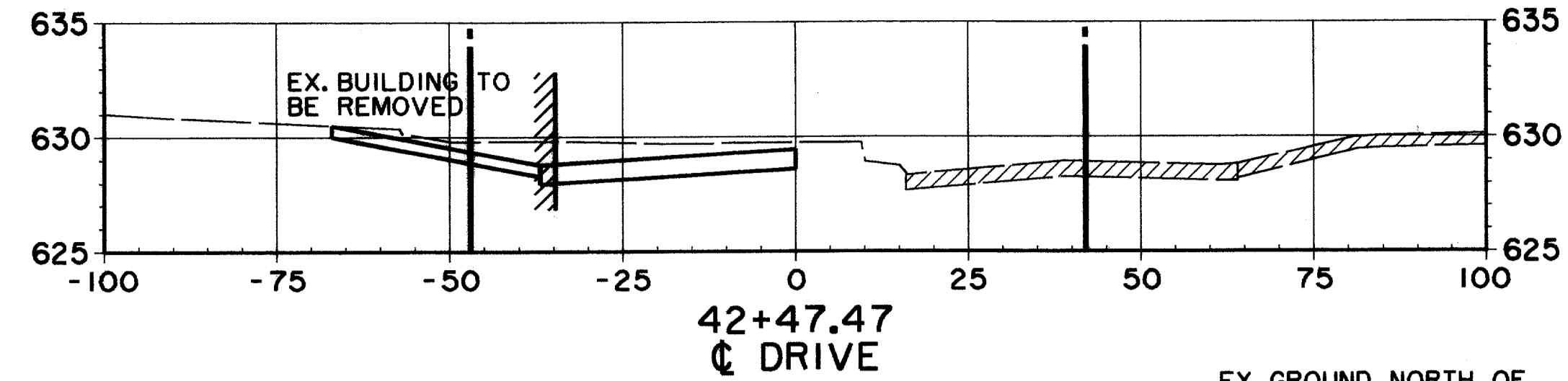
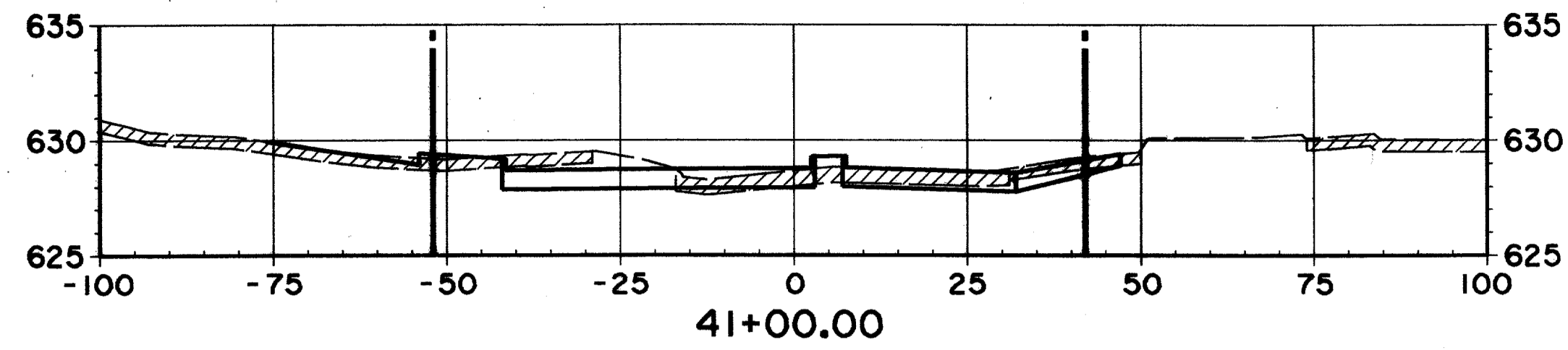
CROSS SECTIONS MASS VOLUME DATA						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
<b>TOWN OF ADDISON, TEXAS</b>						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	NTS	OCT 97	1772-01	X-1

FULL SECTIONS ARE TAKEN EVERY 50'  
HALF SECTIONS ARE TAKEN AT DRIVEWAYS

177201.dwg  
10/24/97

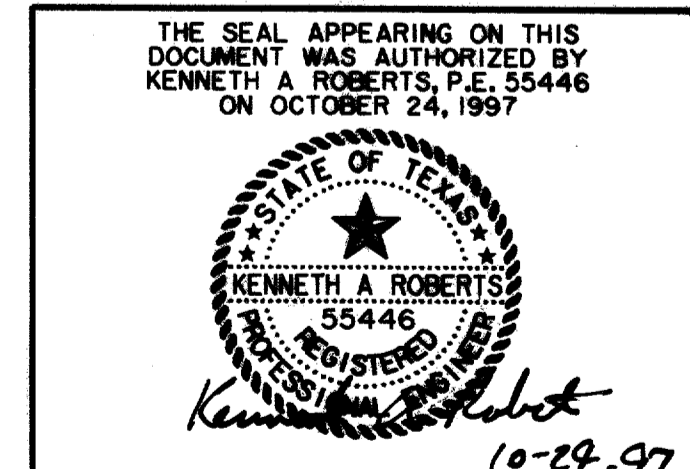
177201.dwg  
10/24/97

177201.dwg  
10/24/97

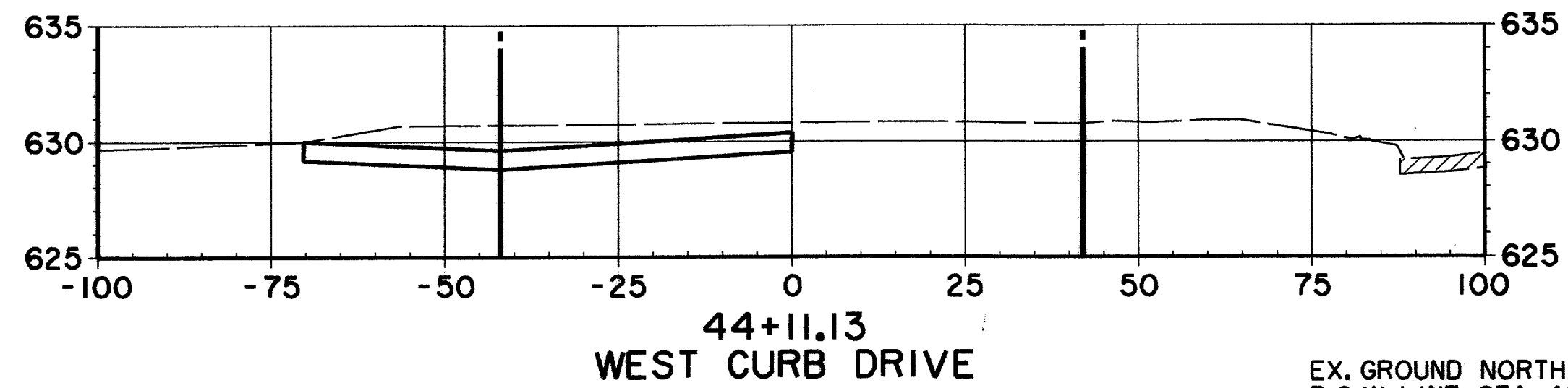
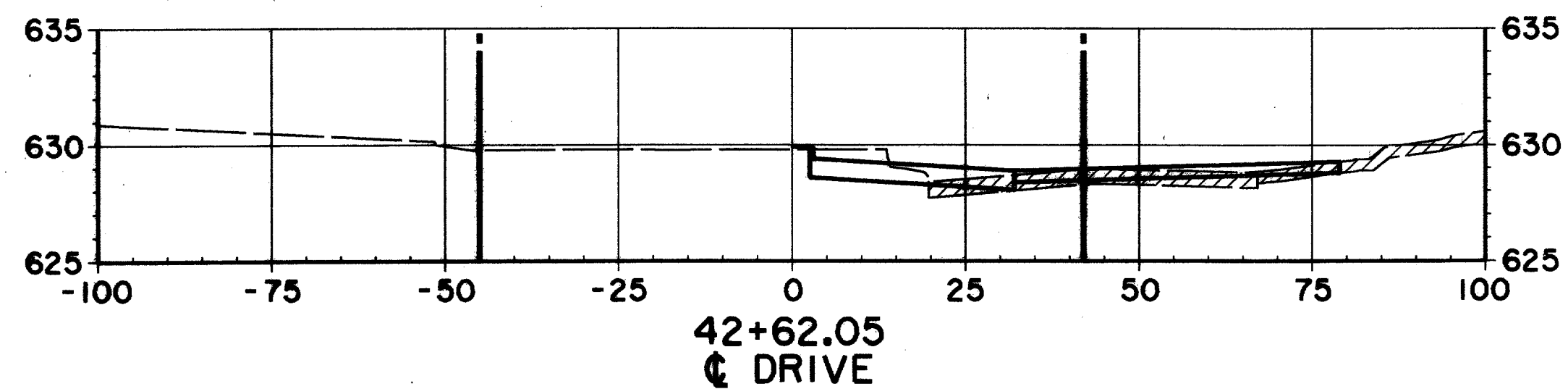
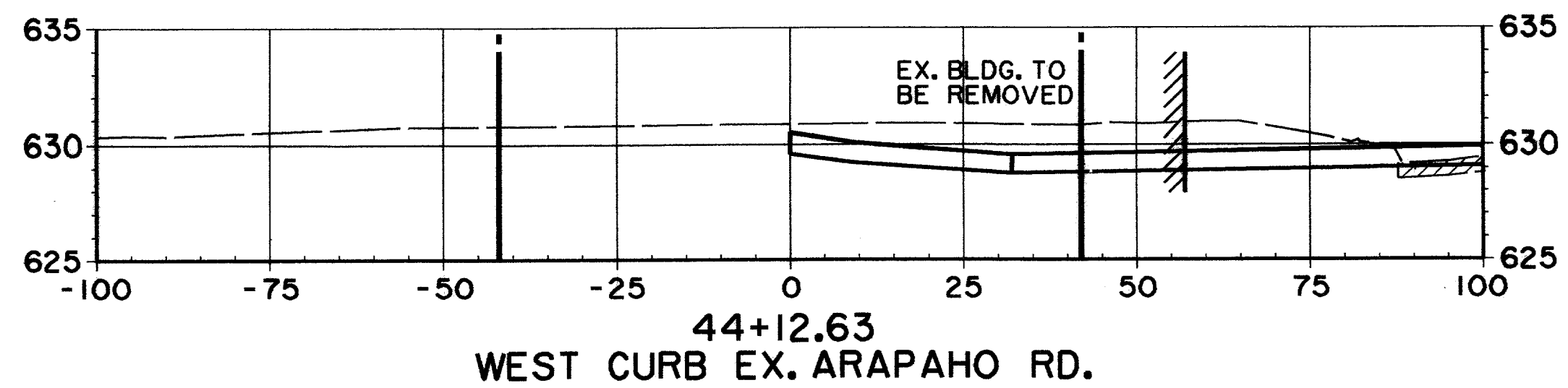
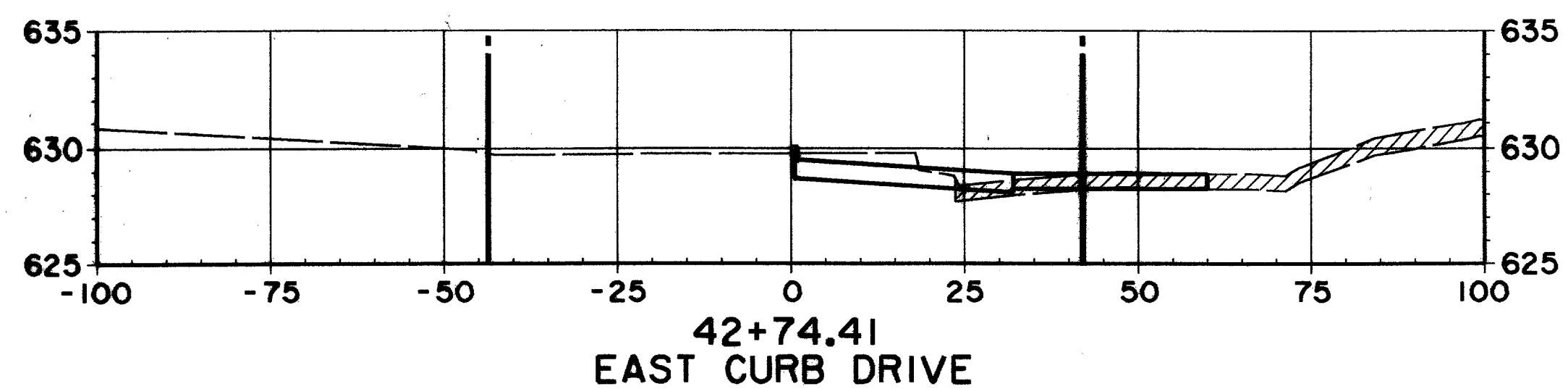


RECORD DOCUMENTS 6/9/2000

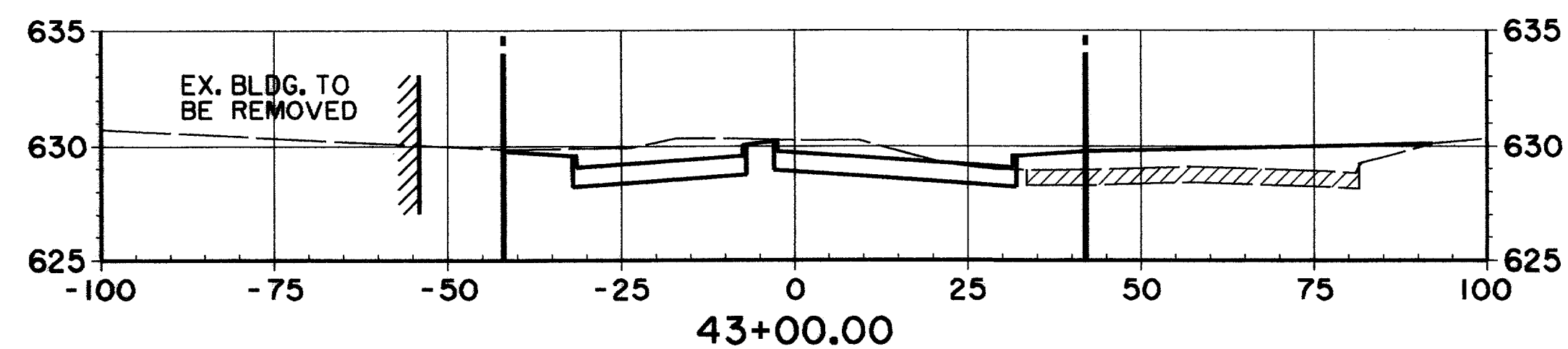
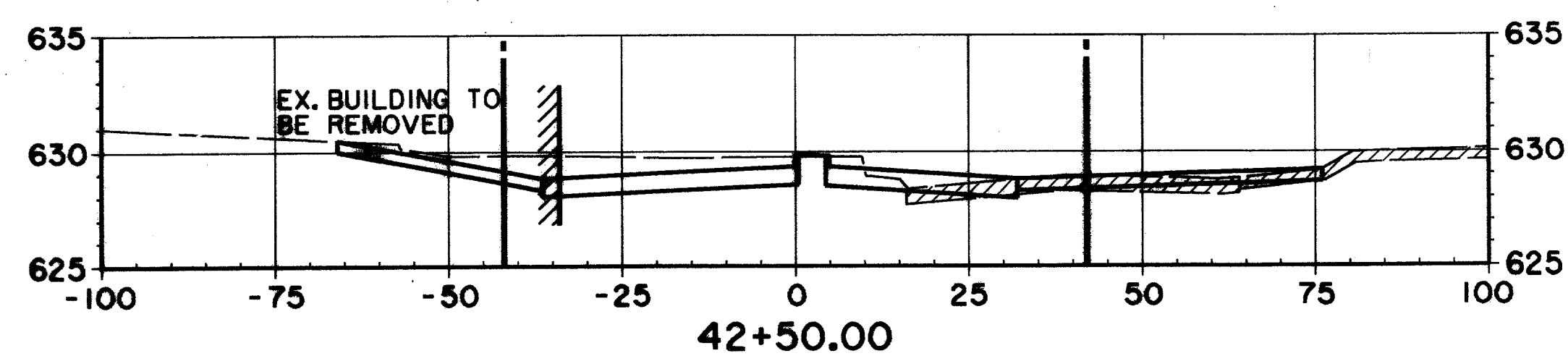
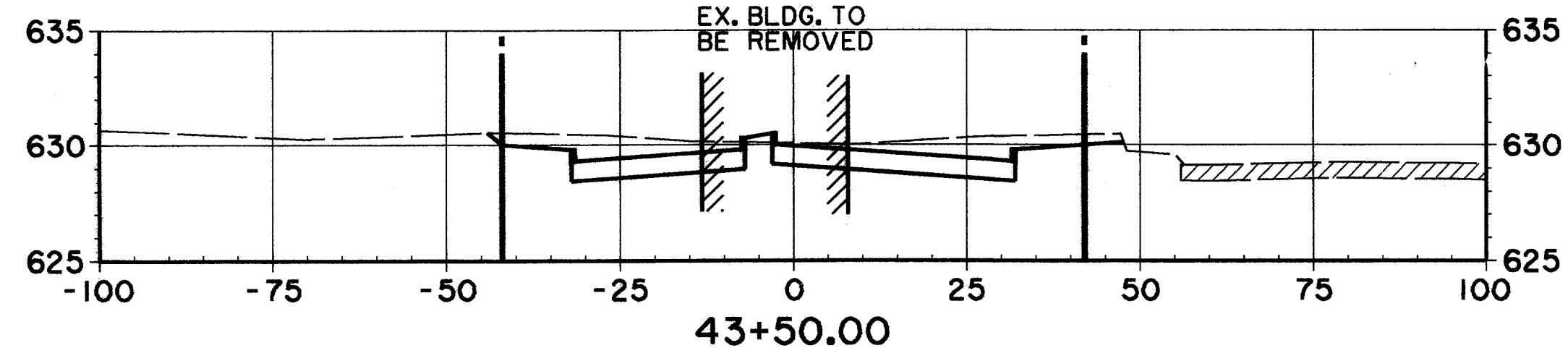
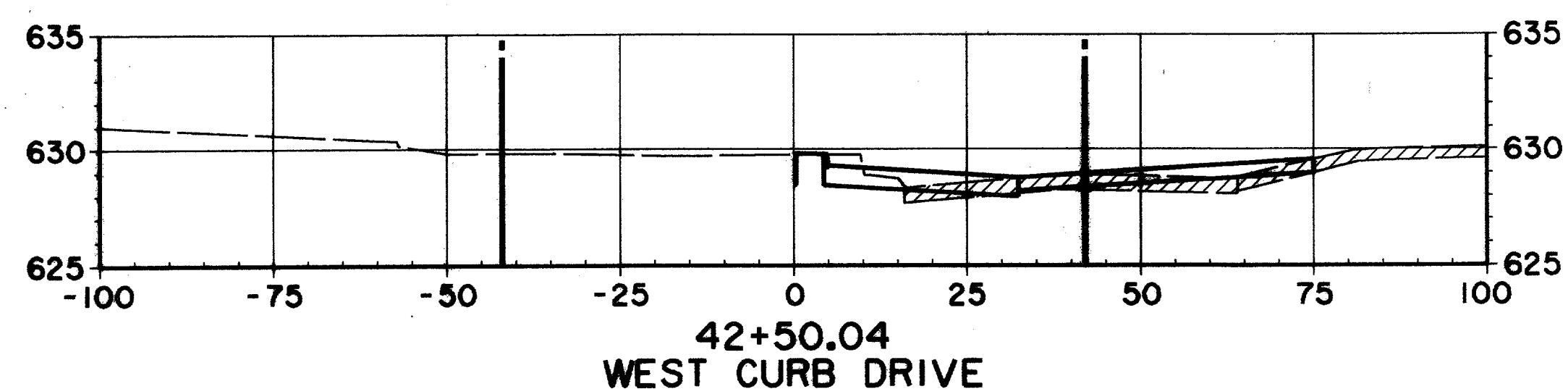
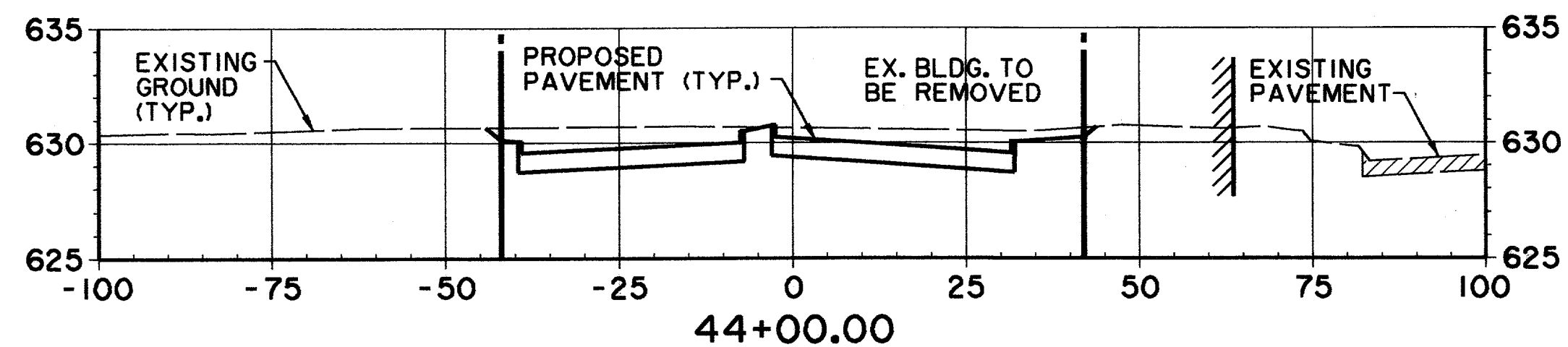
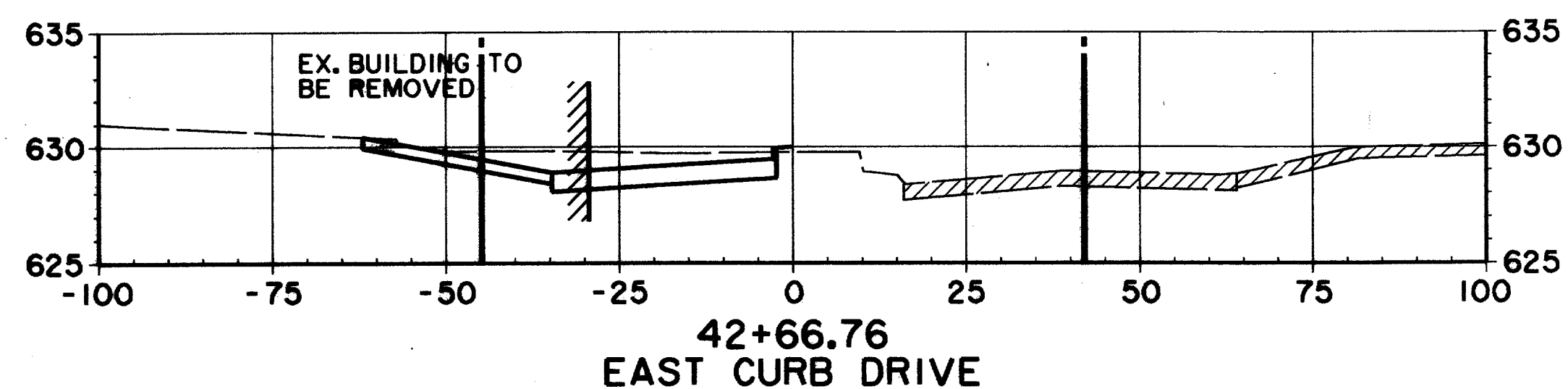
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



CROSS SECTIONS						
STA. 40+35.36 TO STA. 42+47.47						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huttl-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZ1	HZ1	KAR	H: V: 1"=20' / 1"=8'	OCT 97	1772-01	X-2



EX. GROUND NORTH OF  
R.O.W. LINE STA. 42+50  
TO STA. 52+00 MAY HAVE  
BEEN MODIFIED DUE TO  
CONSTRUCTION OF DART  
TRANSIT CENTER

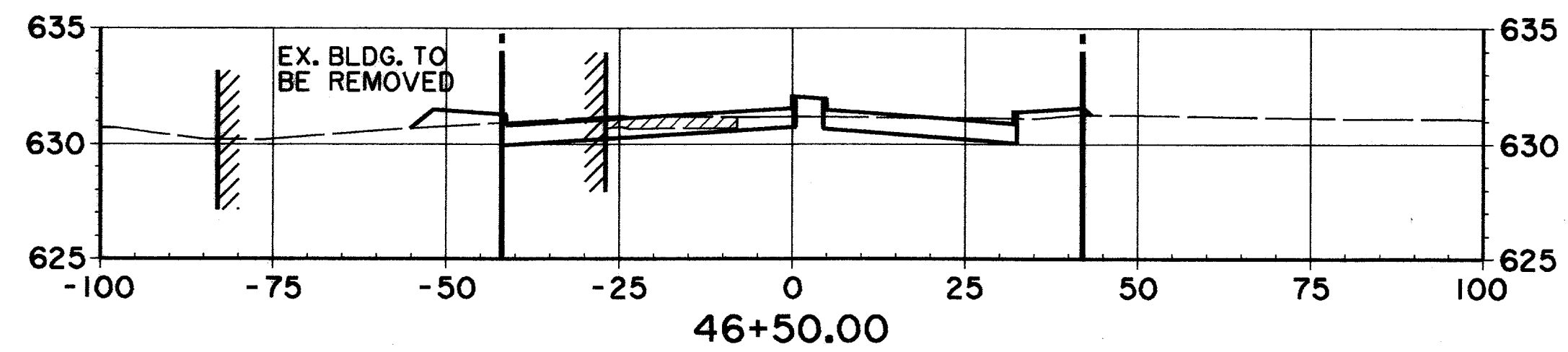
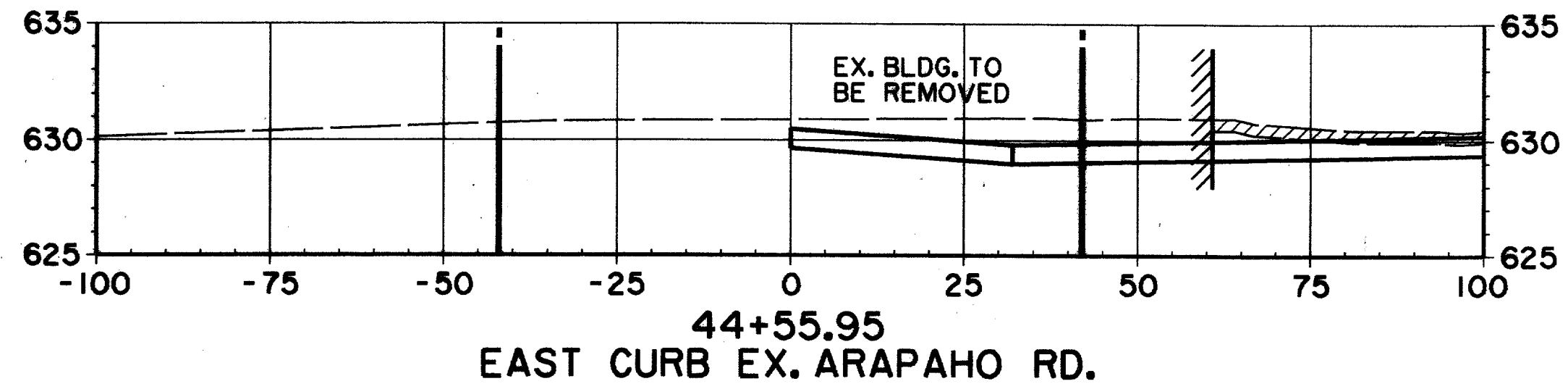
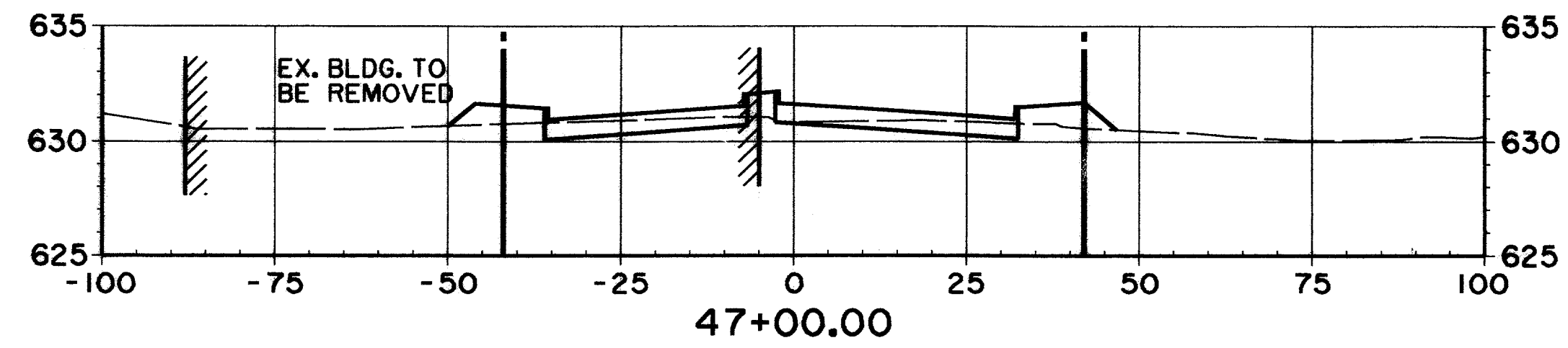
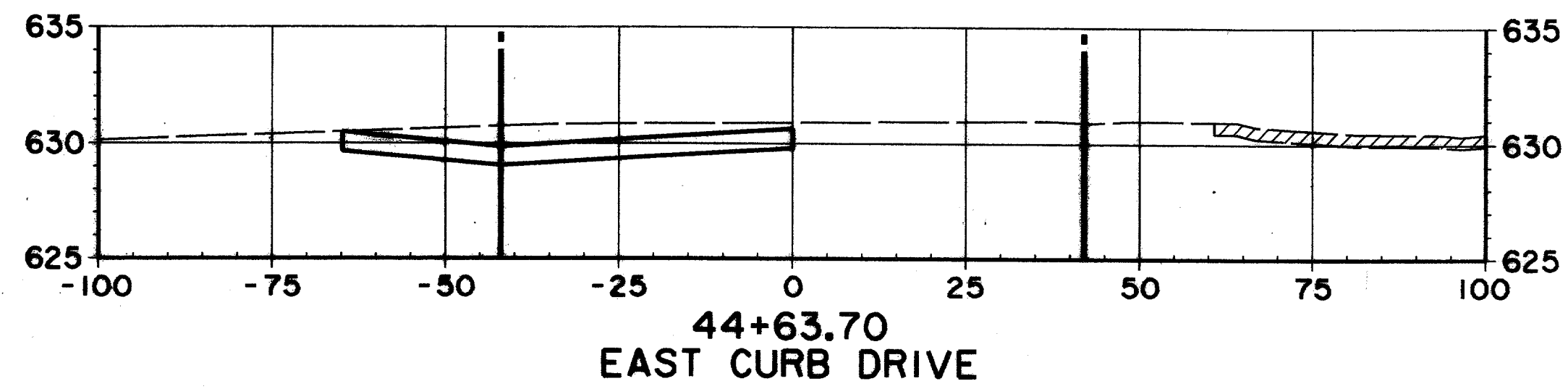


RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON  
INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS  
NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS  
INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY  
ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A  
RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

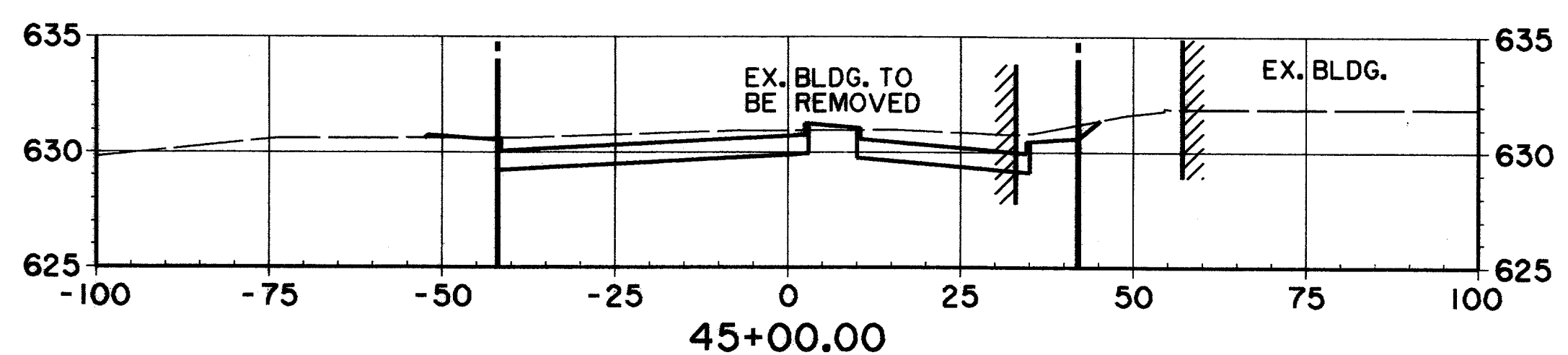
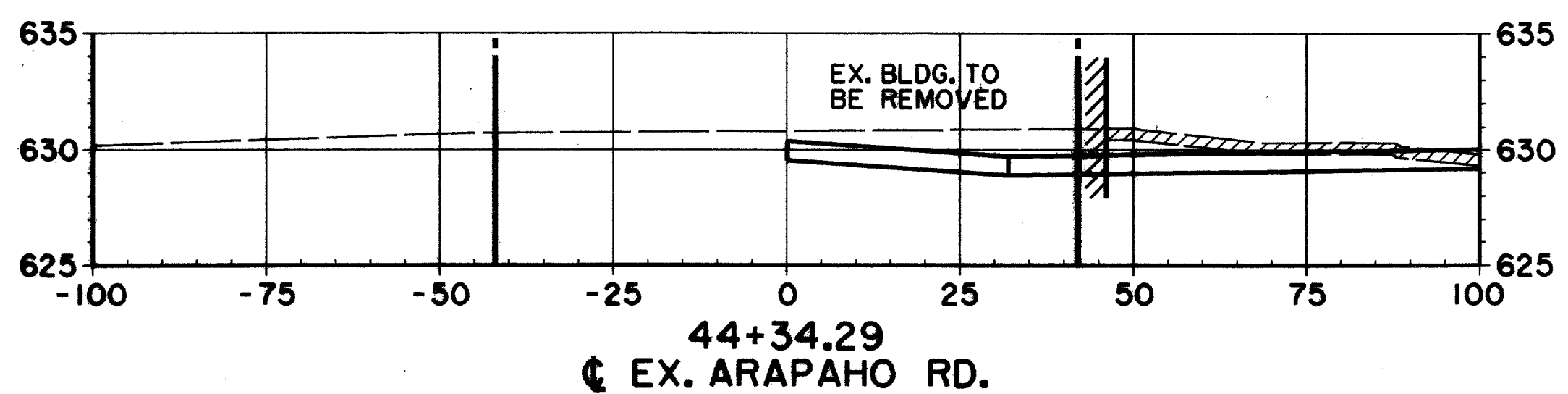
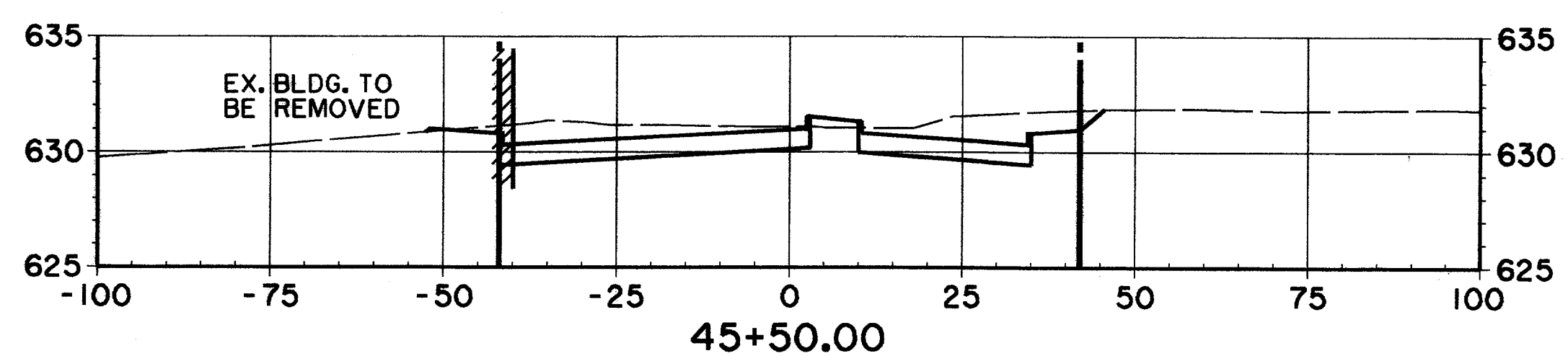
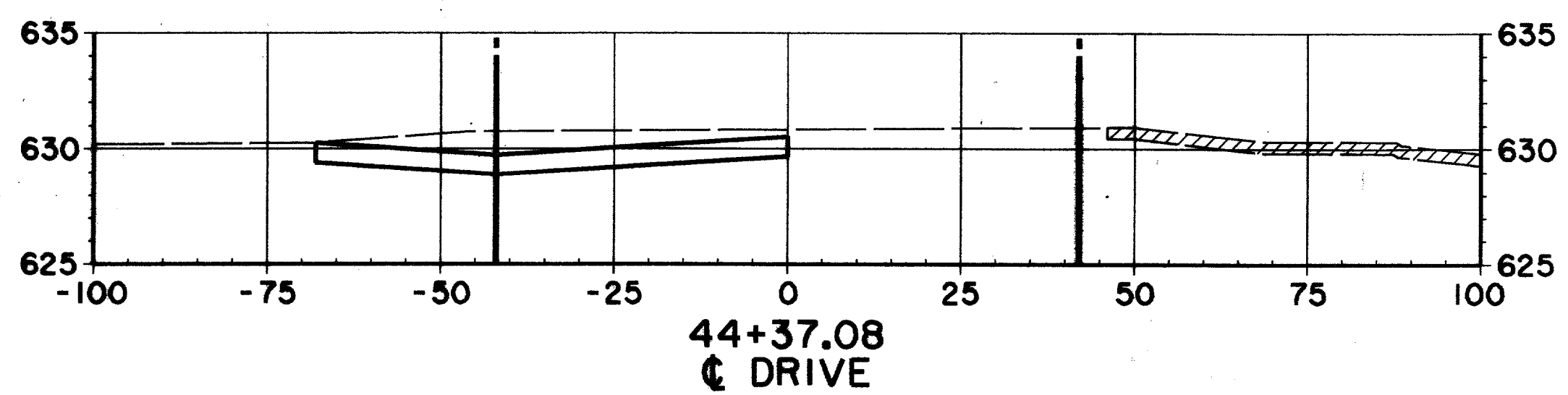
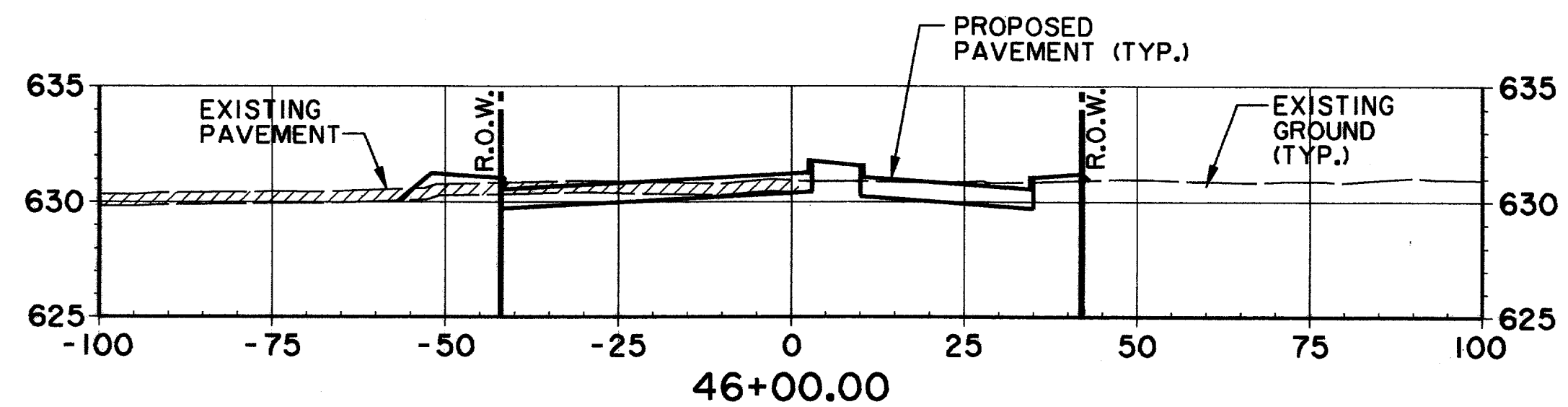
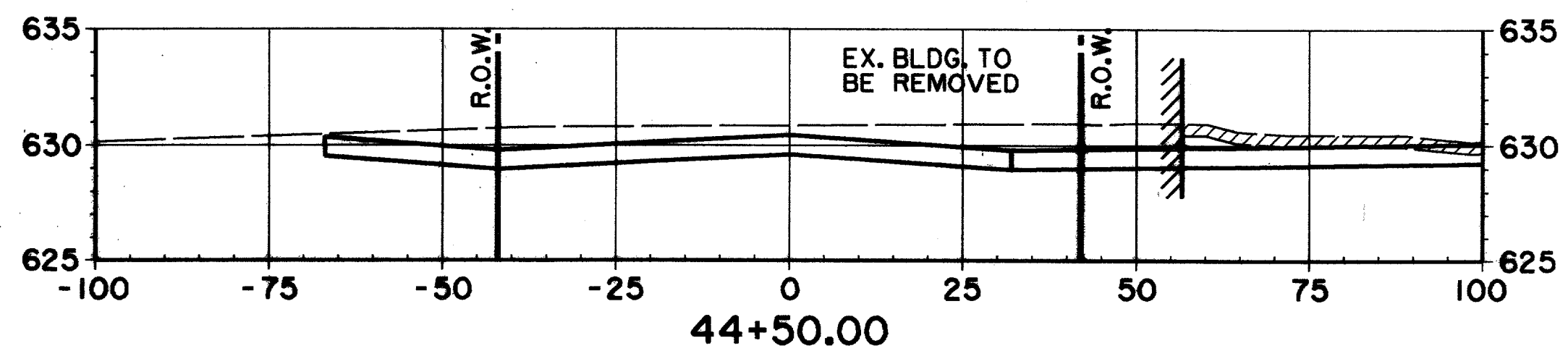
THE SEAL APPEARING ON THIS  
DOCUMENT WAS AUTHORIZED BY  
KENNETH A. ROBERTS, P.E. 55446  
ON OCTOBER 24, 1997

10-29-97

<b>CROSS SECTIONS</b>						
STA. 42+50 TO STA. 44+12.63						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
<b>TOWN OF ADDISON, TEXAS</b>						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H: 1"=20' V: 1"=6'	OCT 97	1772-01	X-3



EX. GROUND NORTH OF  
R.O.W. LINE STA. 42+50  
TO STA. 52+00 MAY HAVE  
BEEN MODIFIED DUE TO  
CONSTRUCTION OF DART  
TRANSIT CENTER



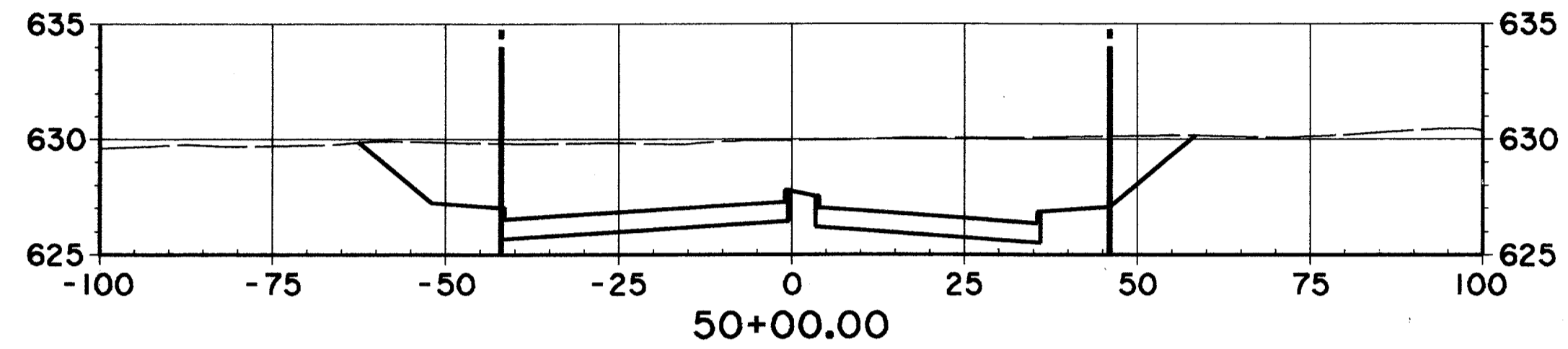
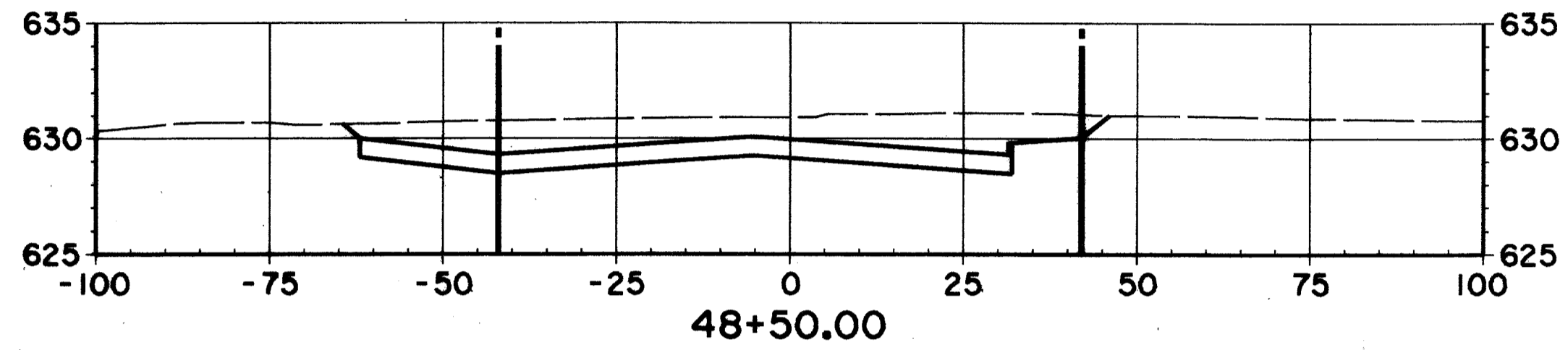
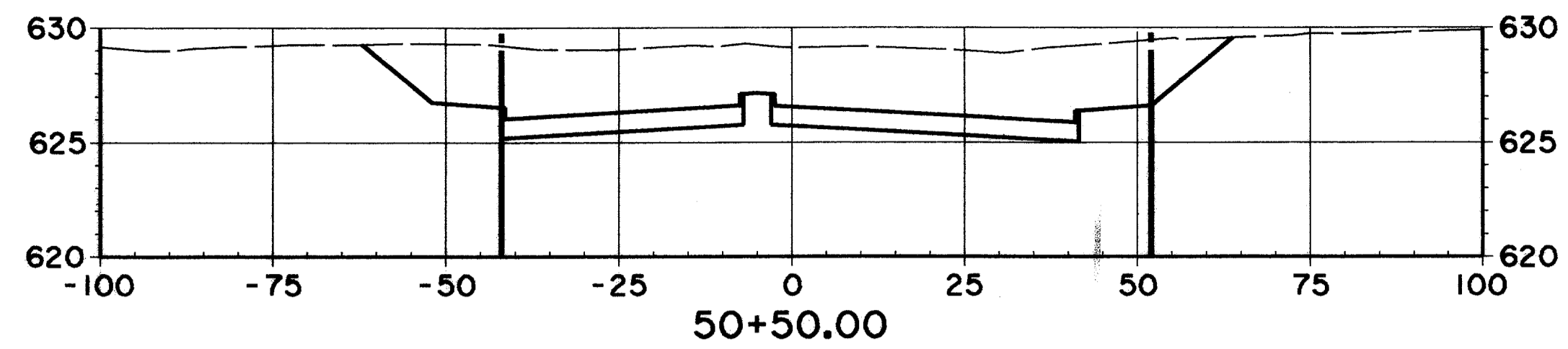
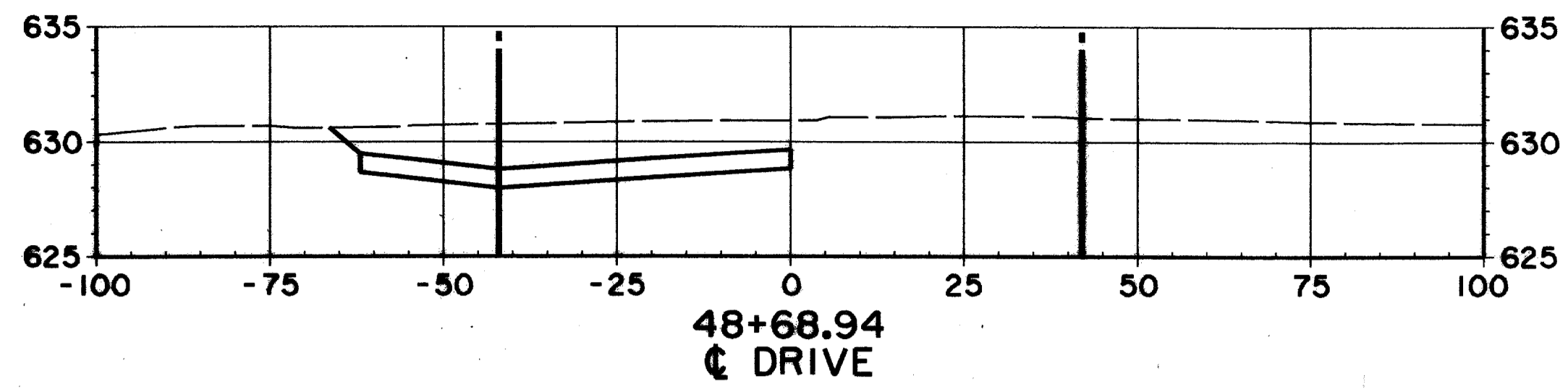
RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON  
INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS  
NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS  
INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY  
ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A  
RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS  
DOCUMENT WAS AUTHORIZED BY  
KENNETH A. ROBERTS, P.E. 55446  
ON OCTOBER 24, 1997

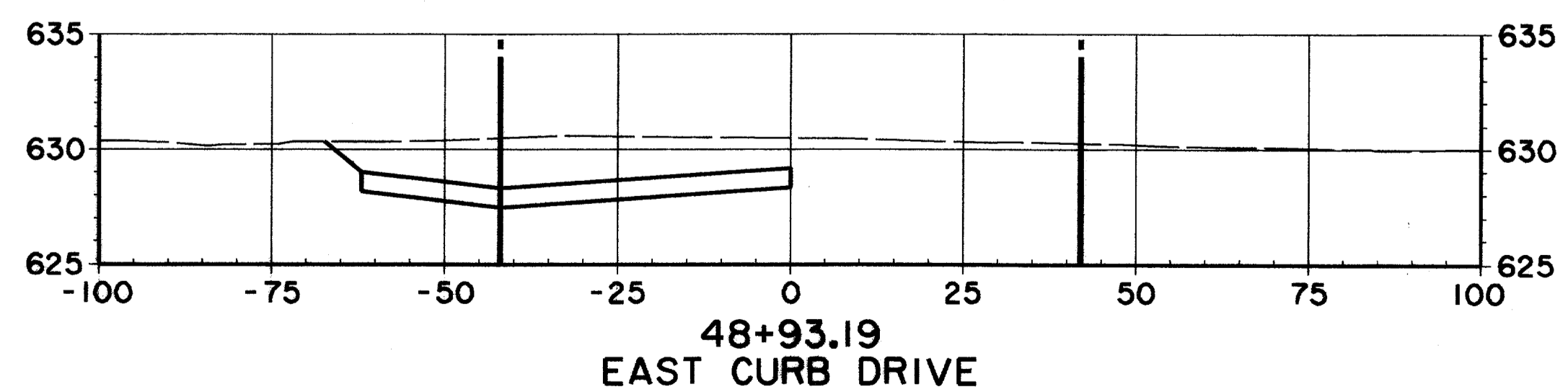
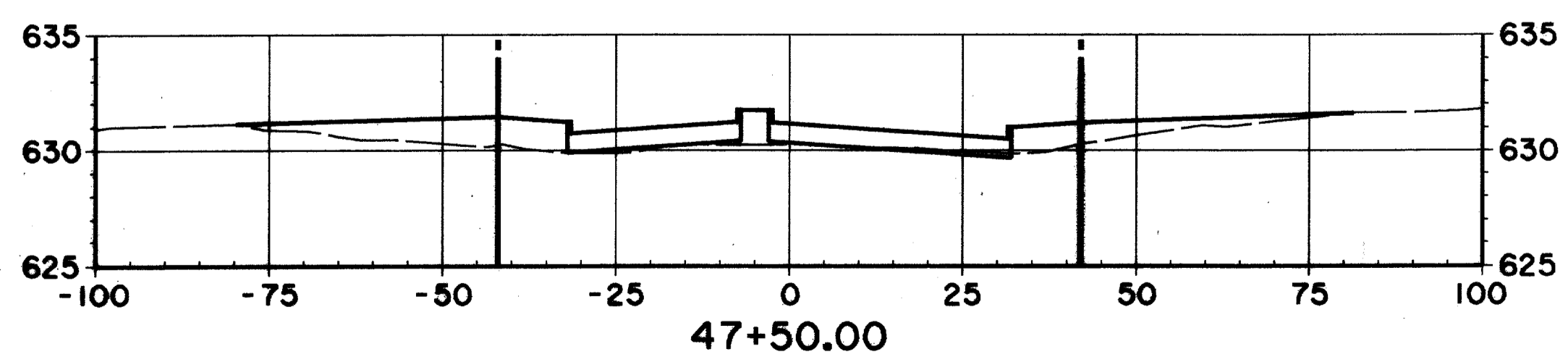
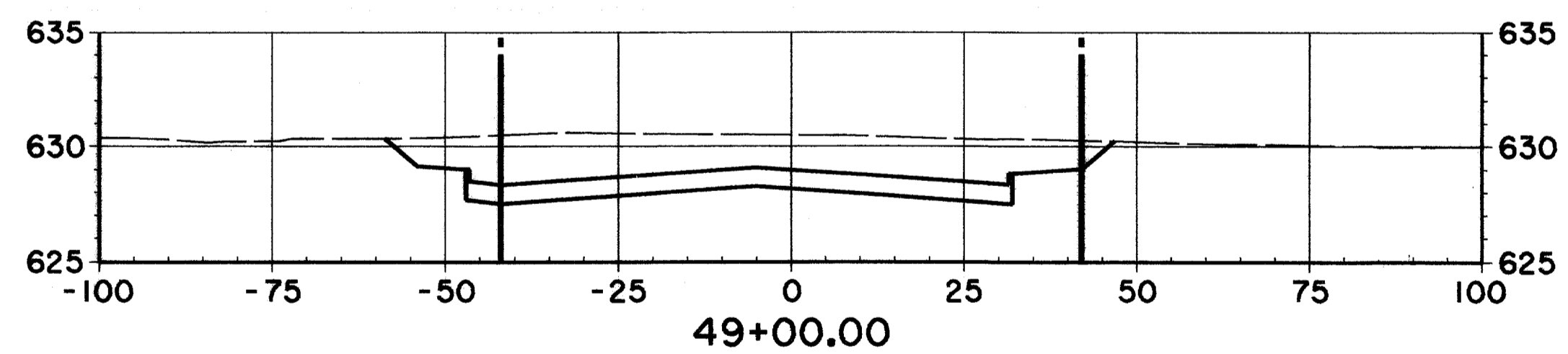
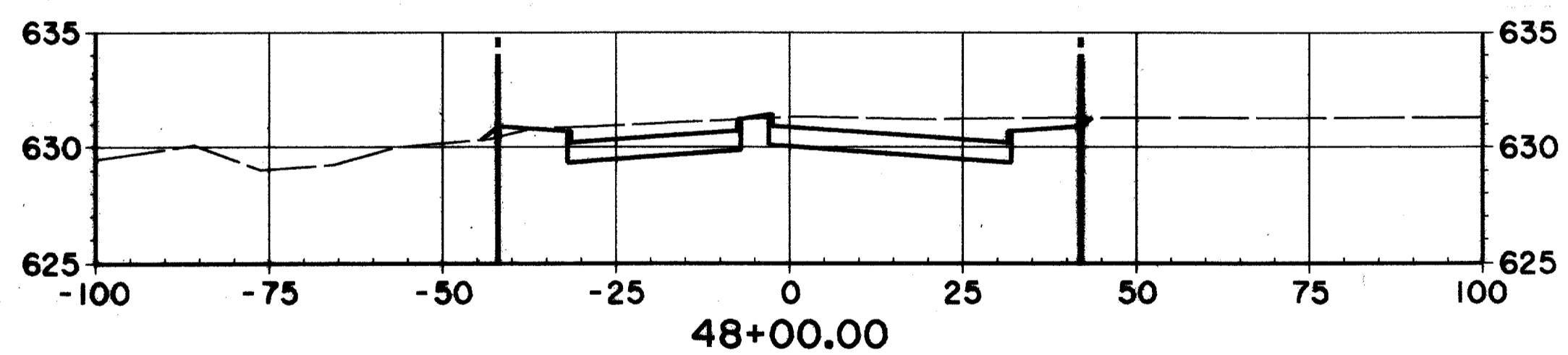
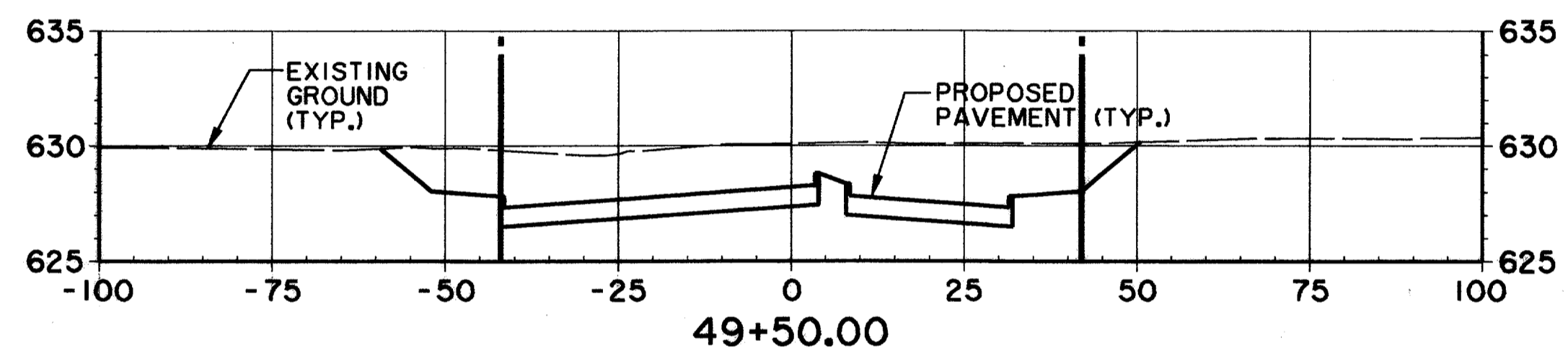
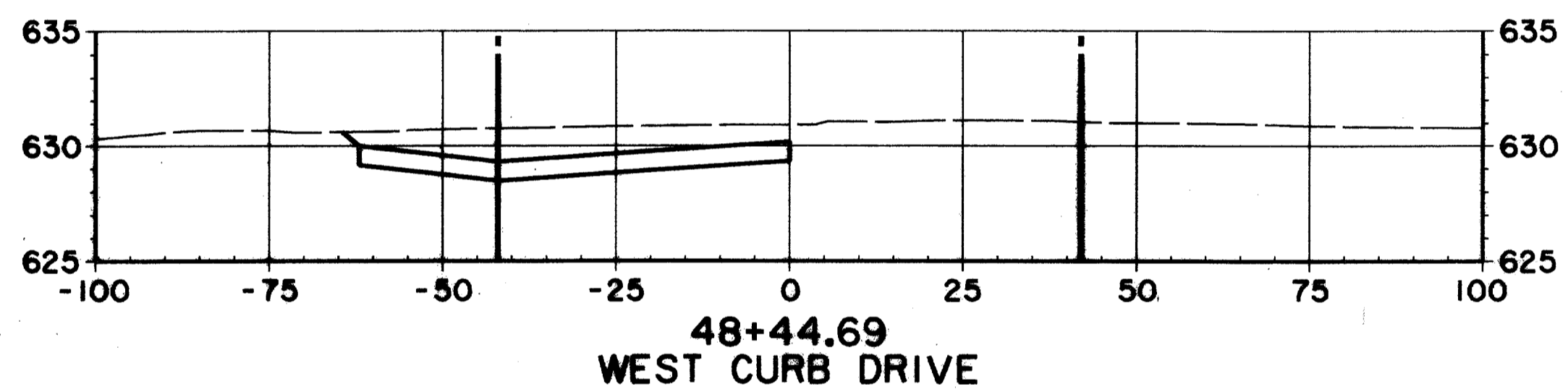


<b>CROSS SECTIONS</b>						
STA. 44+34.29 TO STA. 47+00						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
<b>TOWN OF ADDISON, TEXAS</b>						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>1</sub> 1"=20' V <sub>1</sub> 1"=8'	OCT 97	1772-01	X-4





EX. GROUND NORTH OF  
R.O.W. LINE STA. 42+50  
TO STA. 52+00 MAY HAVE  
BEEN MODIFIED DUE TO  
CONSTRUCTION OF DART  
TRANSIT CENTER



RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



CROSS SECTIONS  
STA. 47+50 TO STA. 50+50

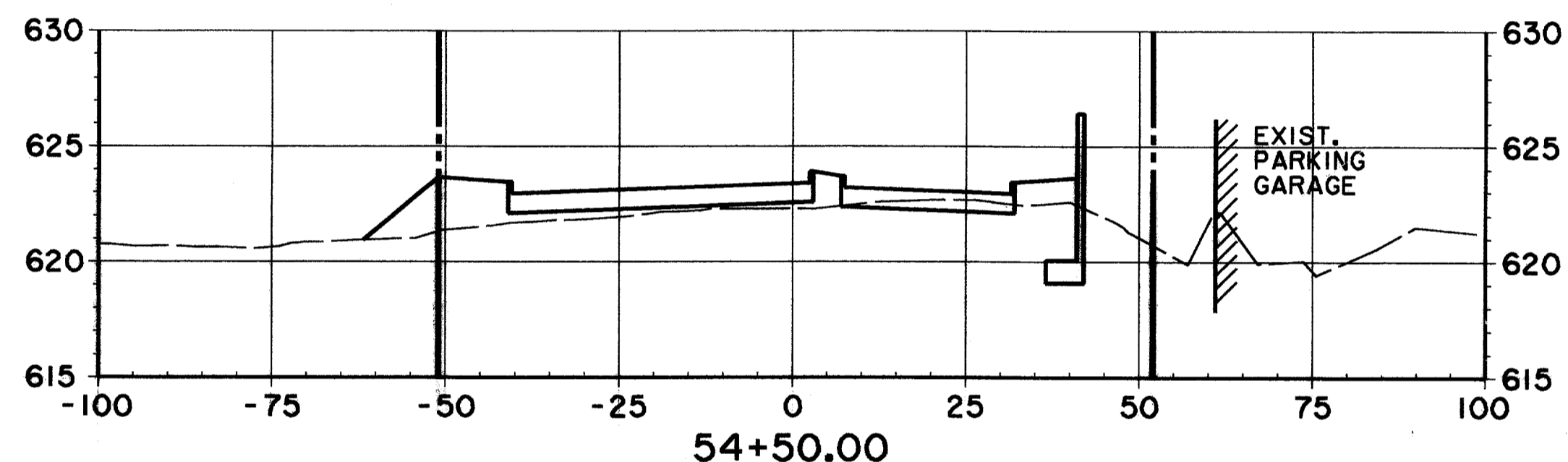
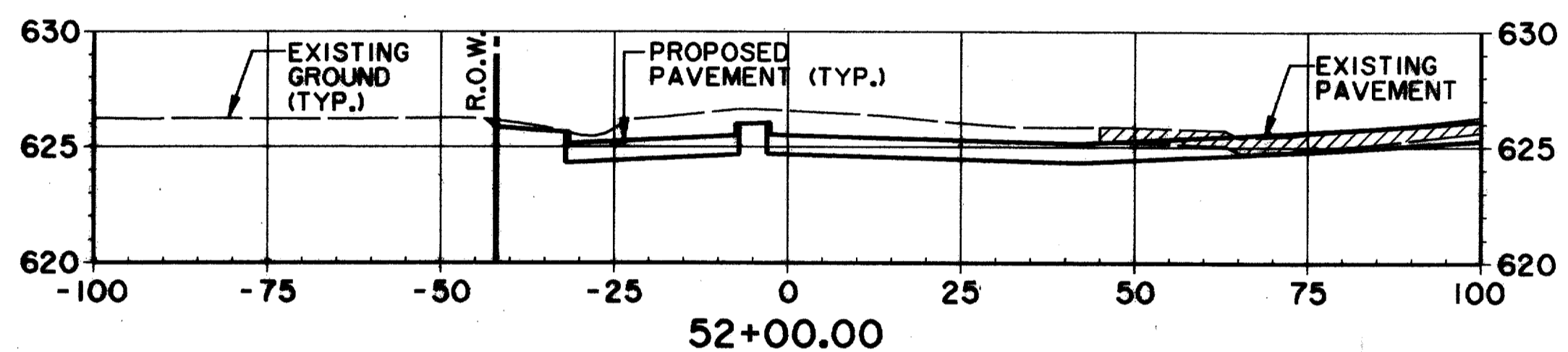
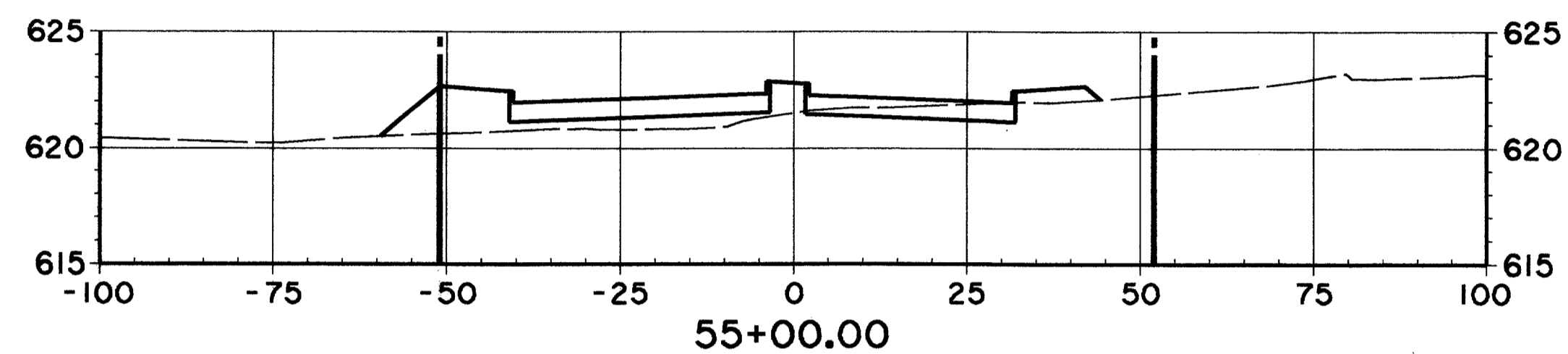
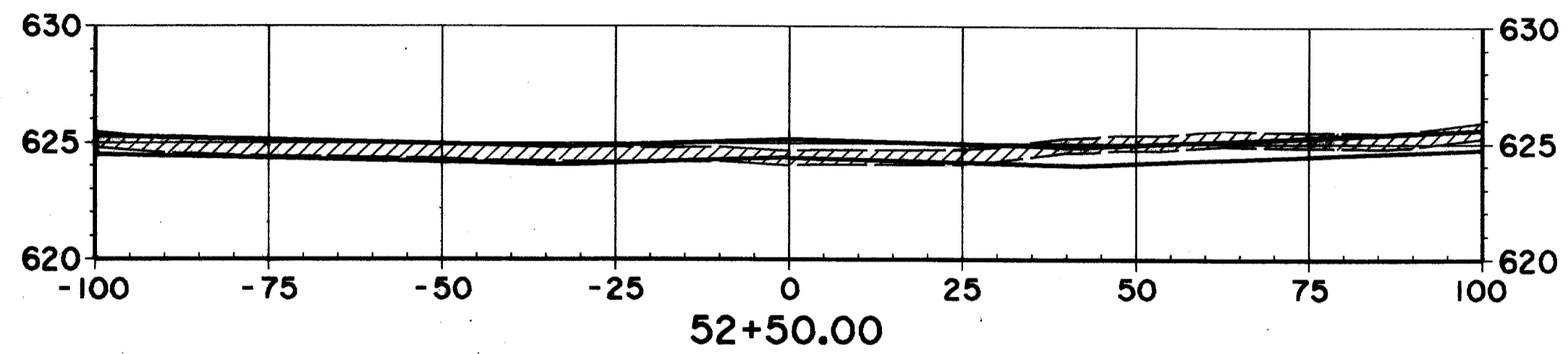
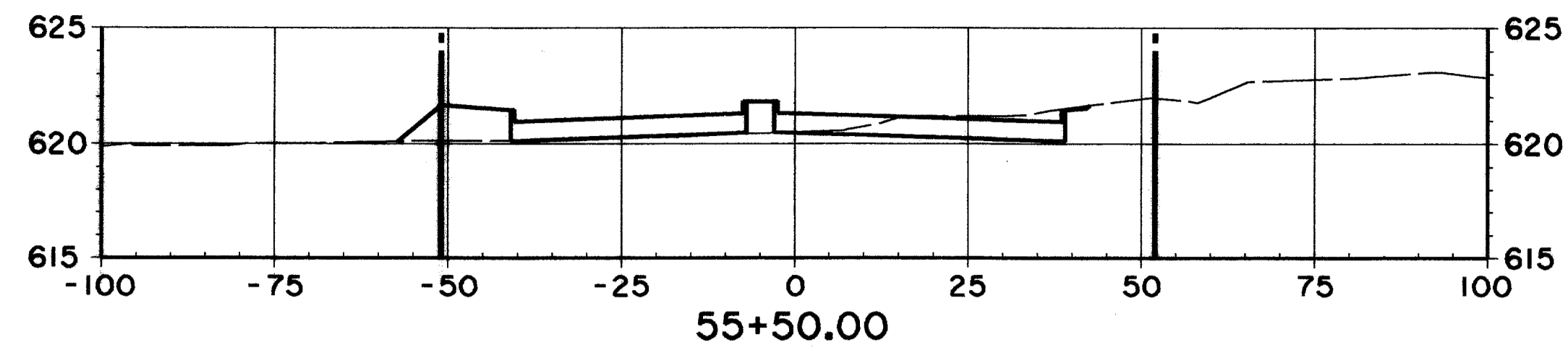
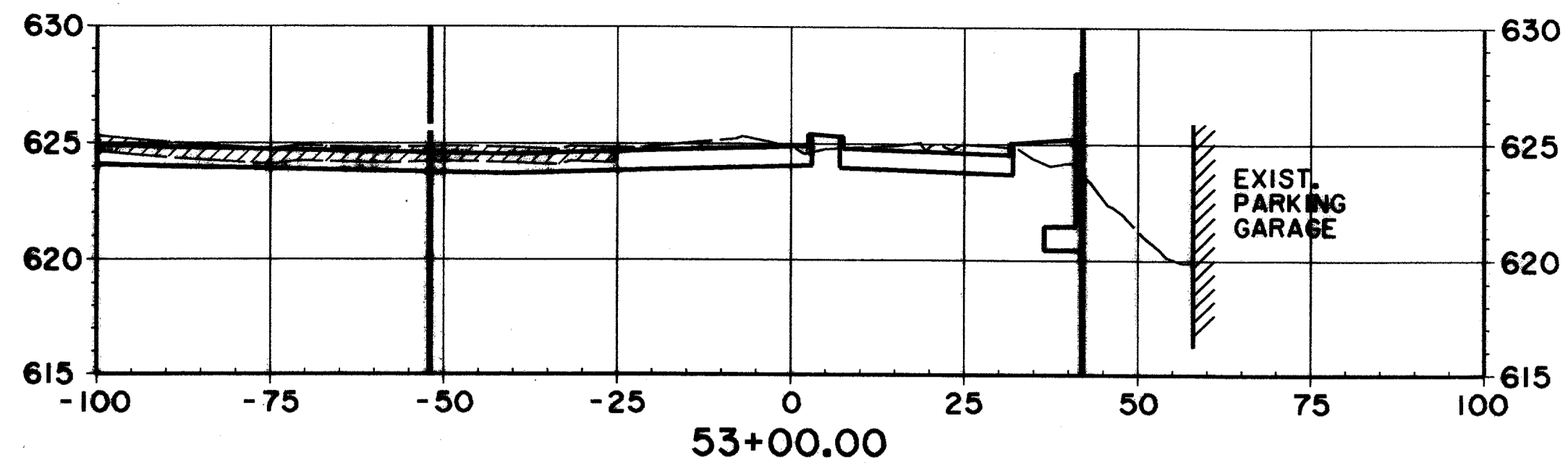
ARAPAHO ROAD

ADDISON ROAD TO DALLAS NORTH TOLLWAY

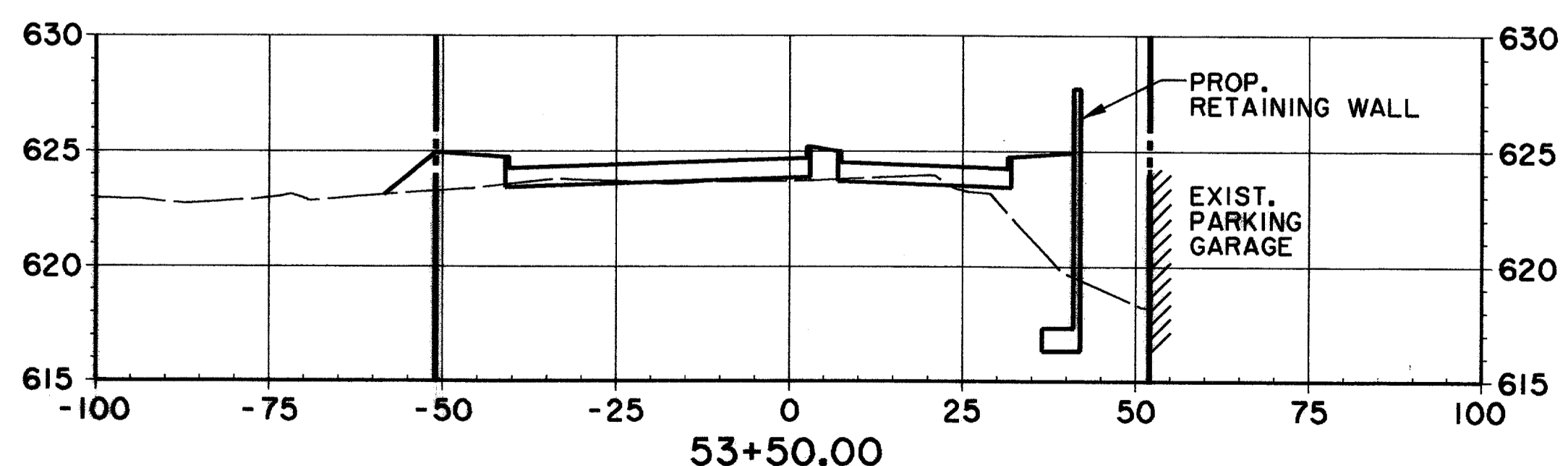
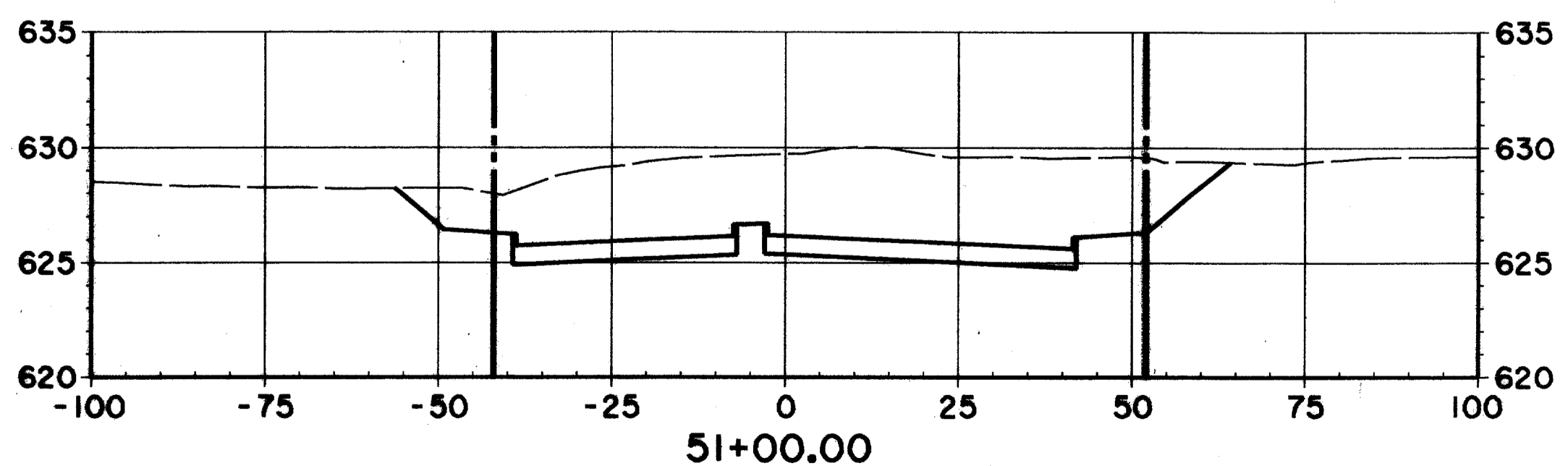
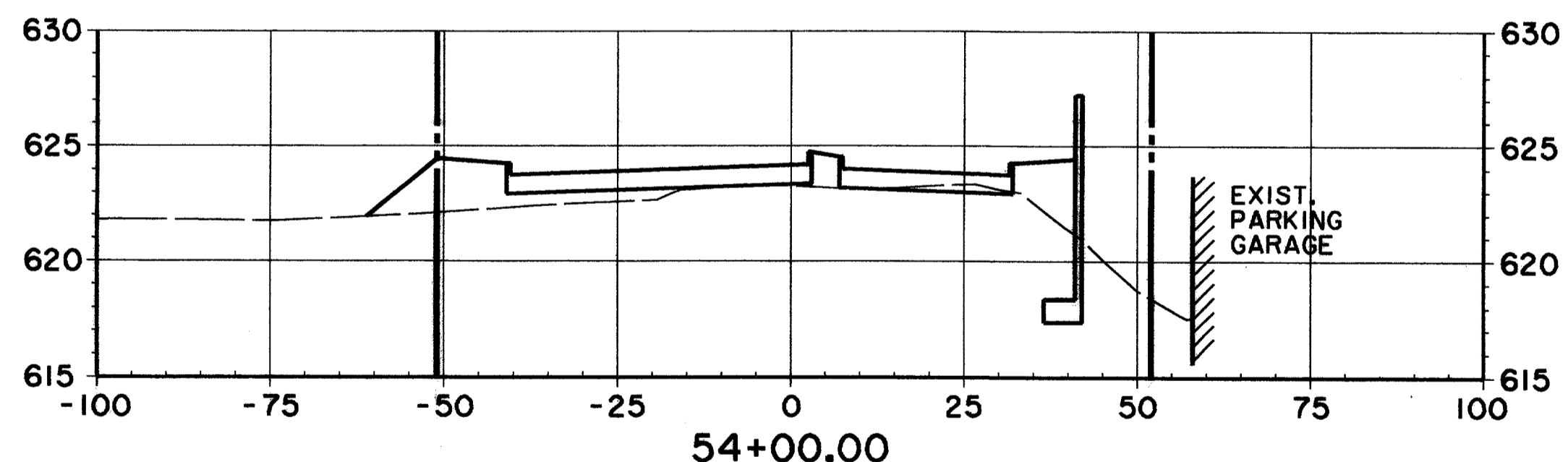
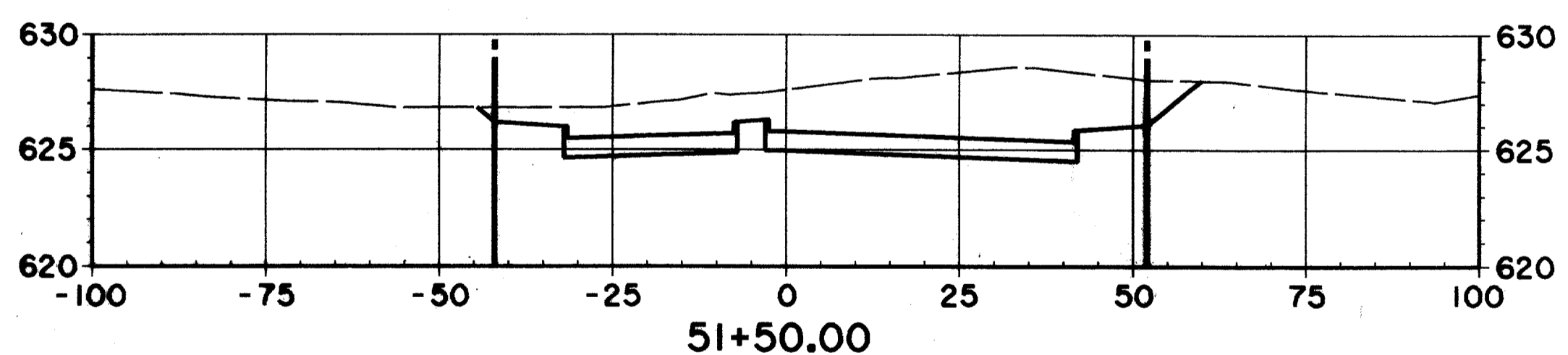
TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Consulting Engineers  
Dallas, Fort Worth, Houston, Phoenix, Tustin

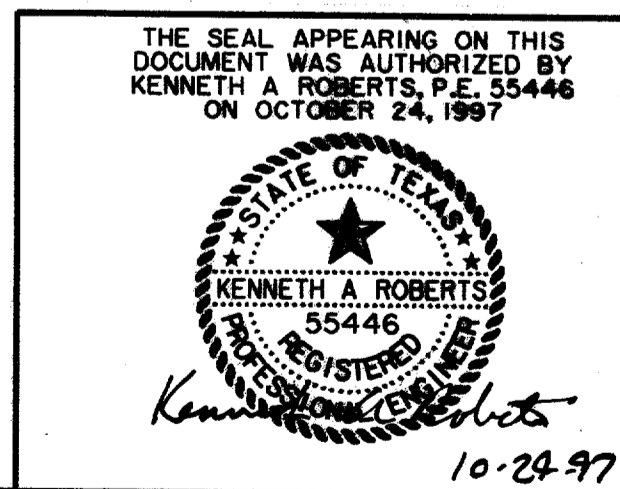
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1/4" = 20' 1/8" = 6'	OCT 97	1772-01	X-5



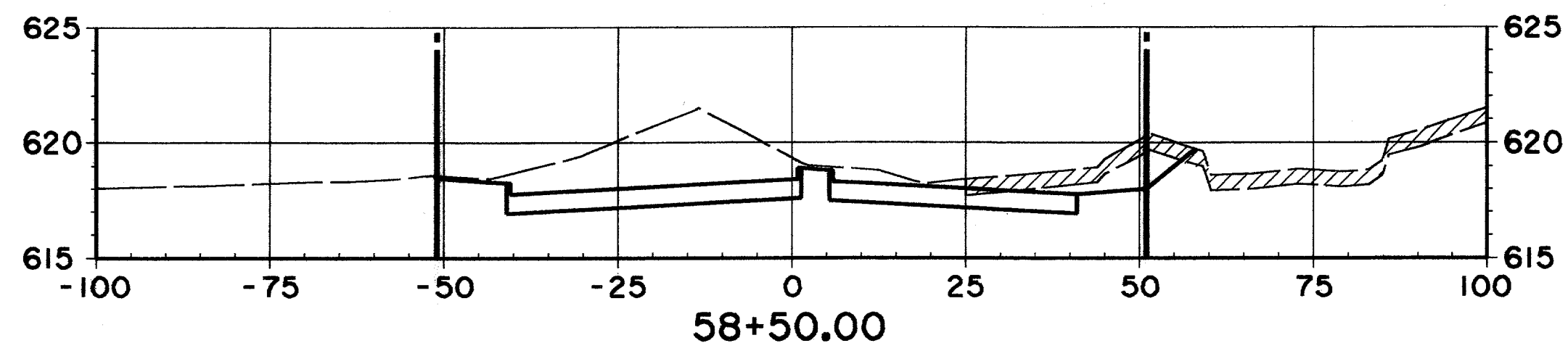
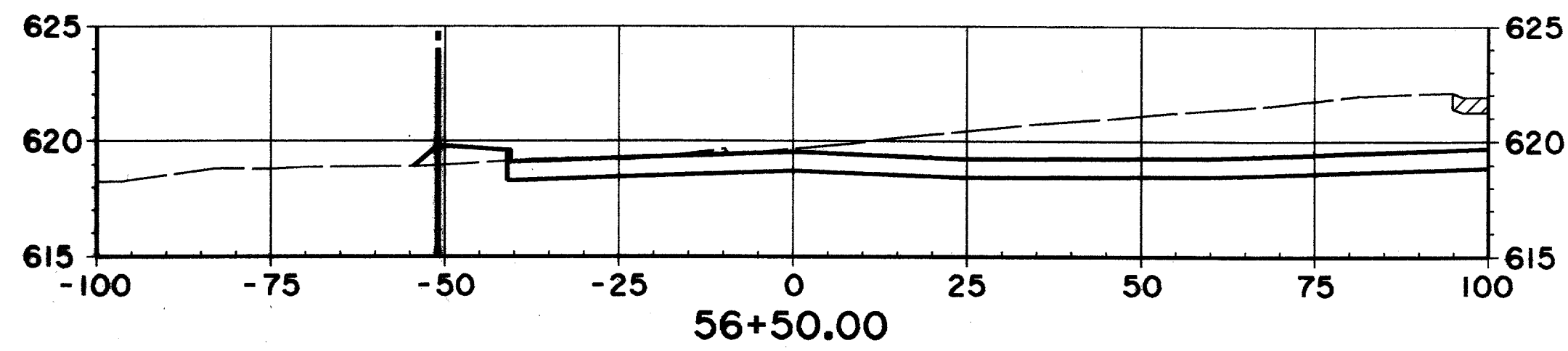
EX. GROUND NORTH OF  
R.O.W. LINE STA. 42+50  
TO STA. 52+00 MAY HAVE  
BEEN MODIFIED DUE TO  
CONSTRUCTION OF DART  
TRANSIT CENTER



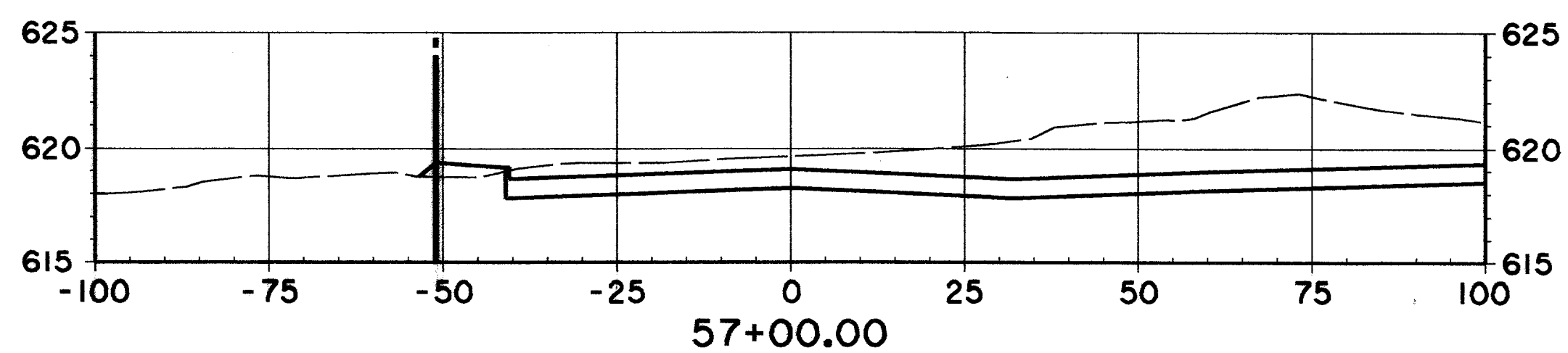
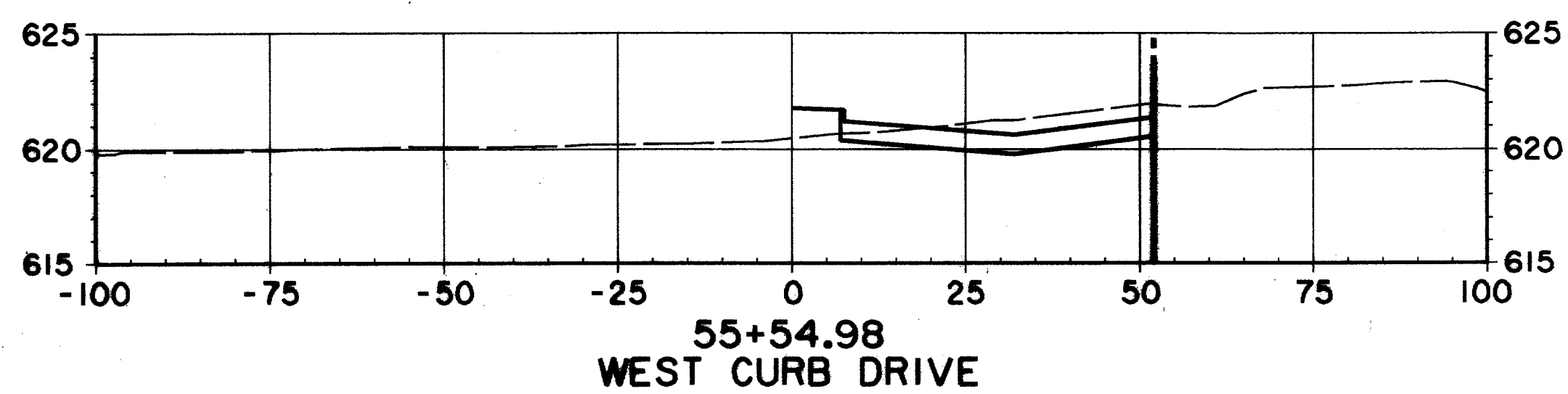
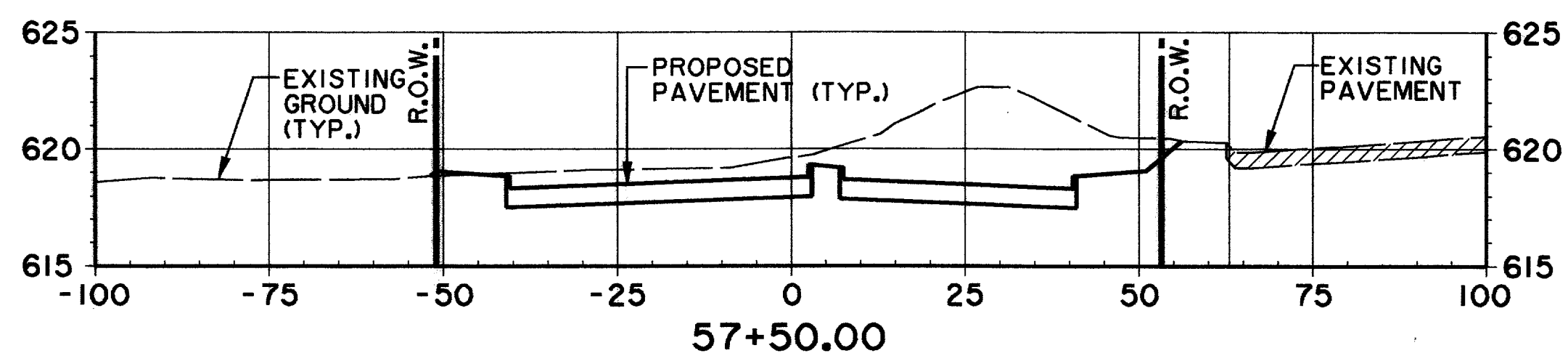
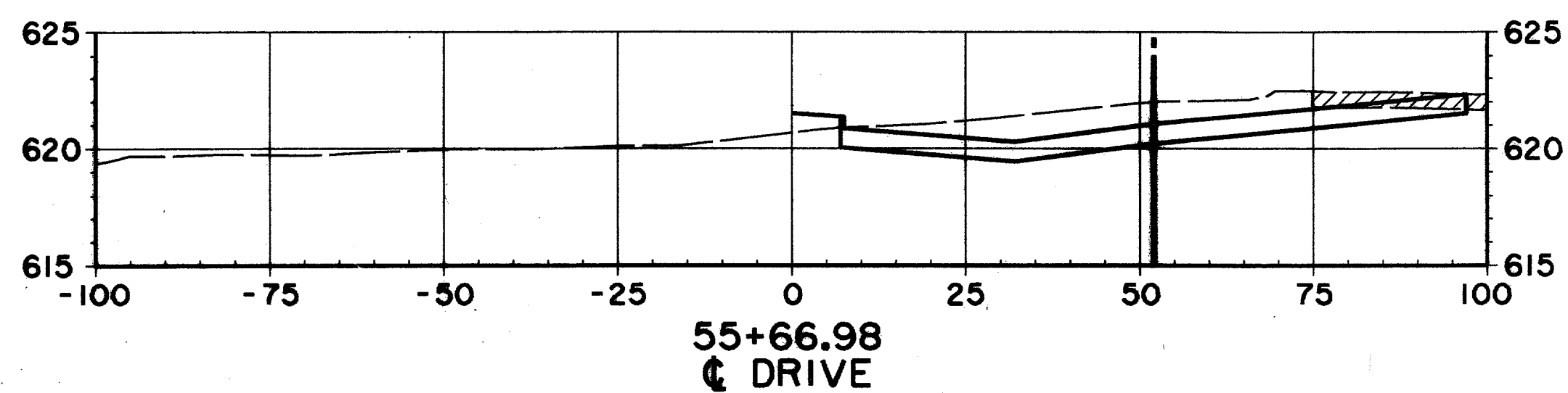
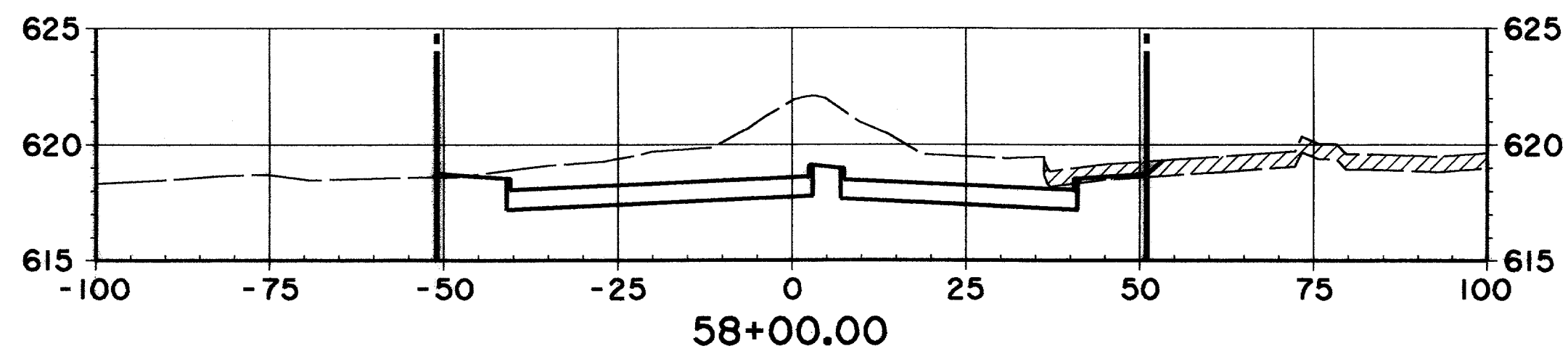
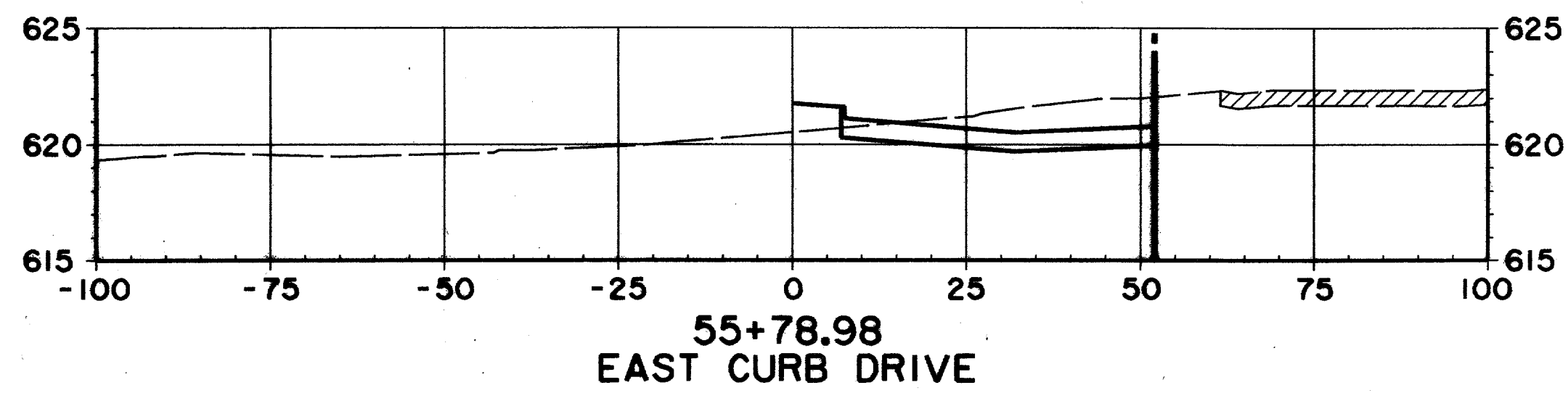
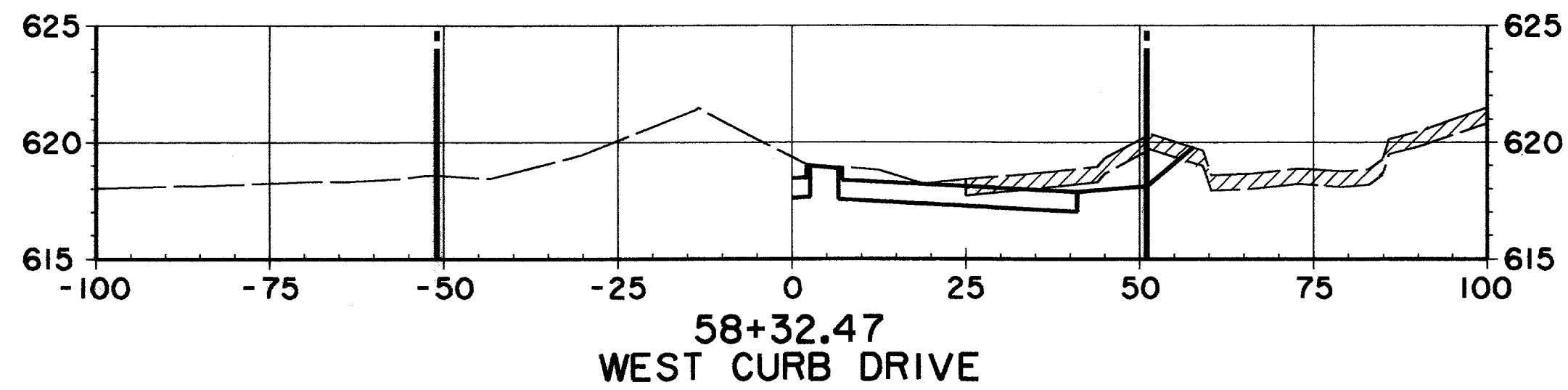
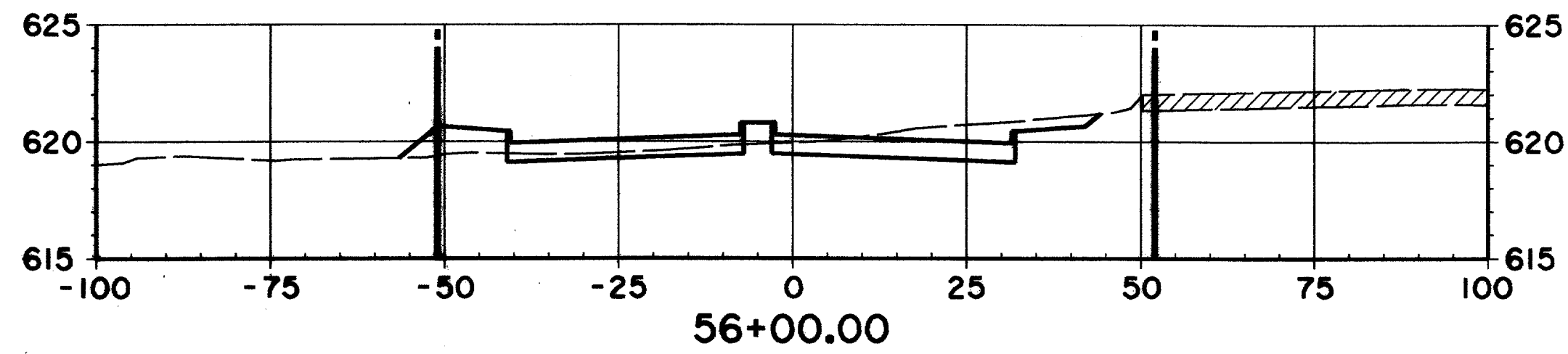
RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON  
INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS  
NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS  
INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY  
ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A  
RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



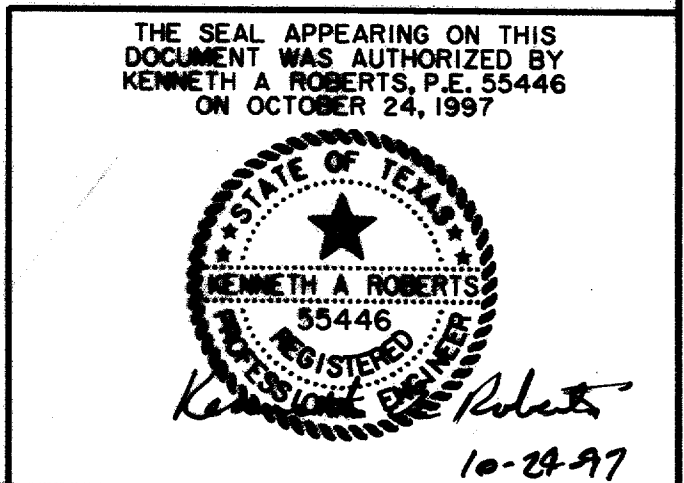
<b>CROSS SECTIONS</b>						
STA. 51+00 TO STA. 55+50						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
<b>TOWN OF ADDISON, TEXAS</b>						
Hult-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	1/4"=20' 1/8"=10'	OCT 97	1772-01	X-6



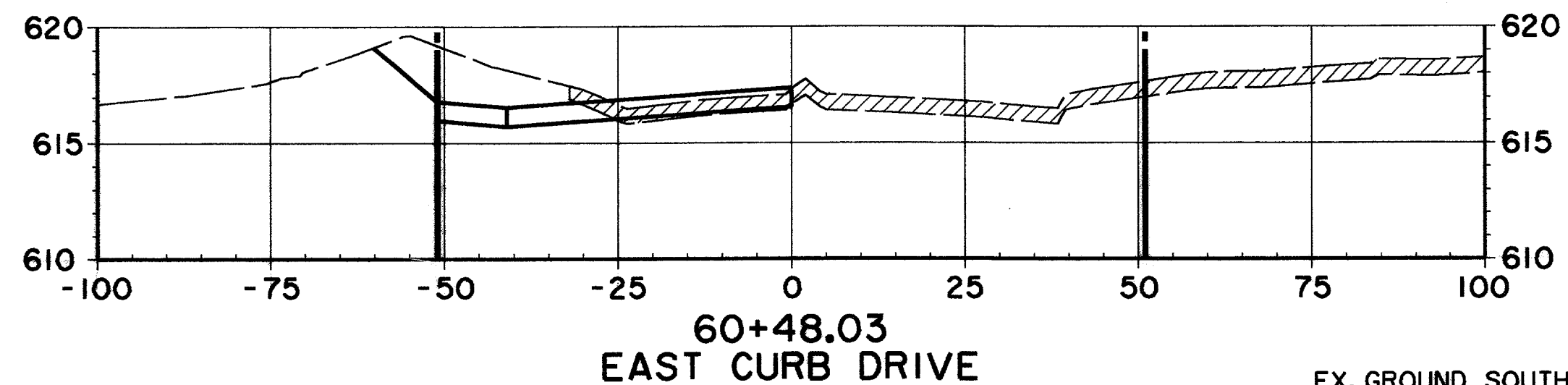
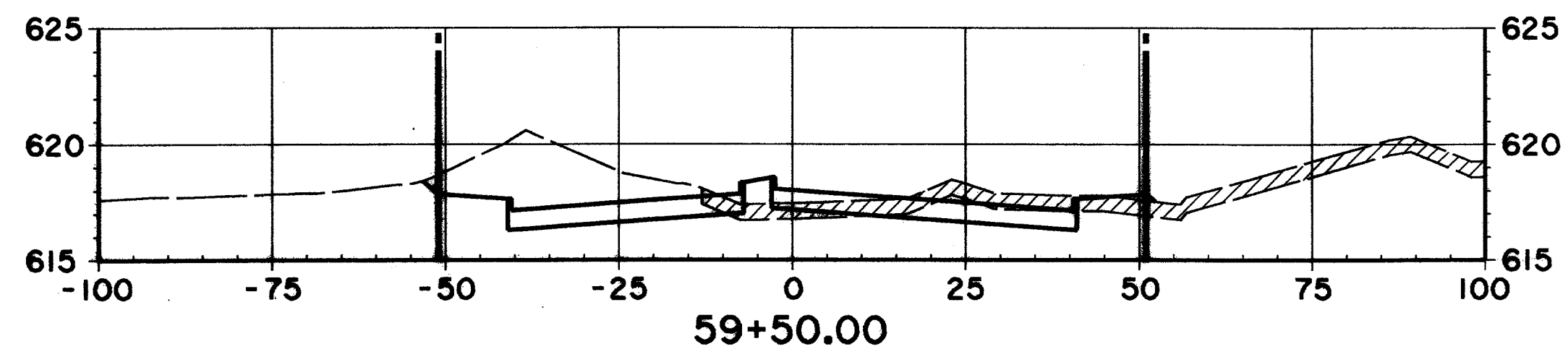
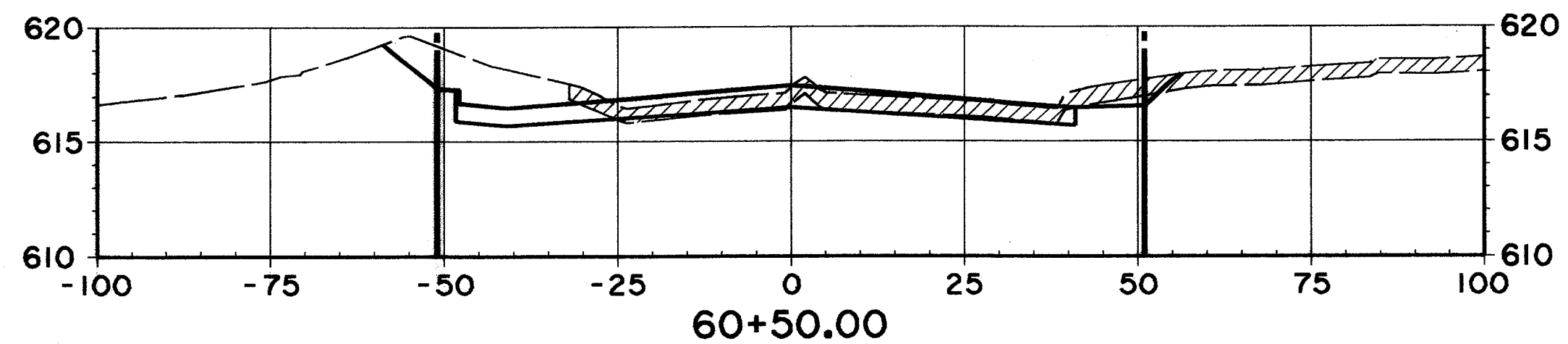
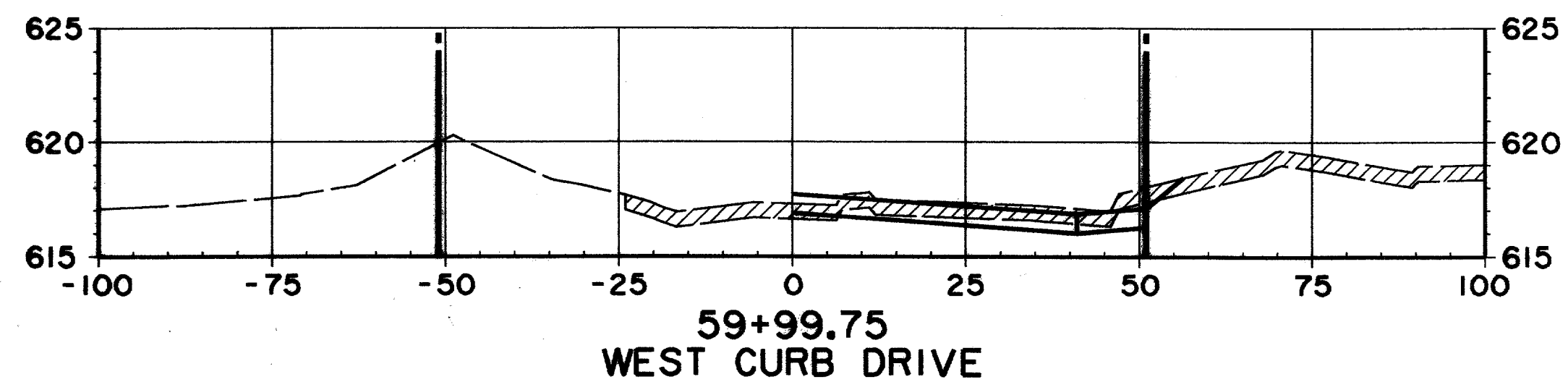
EX. GROUND SOUTH OF  
R.O.W. LINE STA. 57+50  
TO STA. 66+50 MAY HAVE  
BEEN MODIFIED DUE TO  
CONSTRUCTION OF THE  
COLONNADE TOWER III



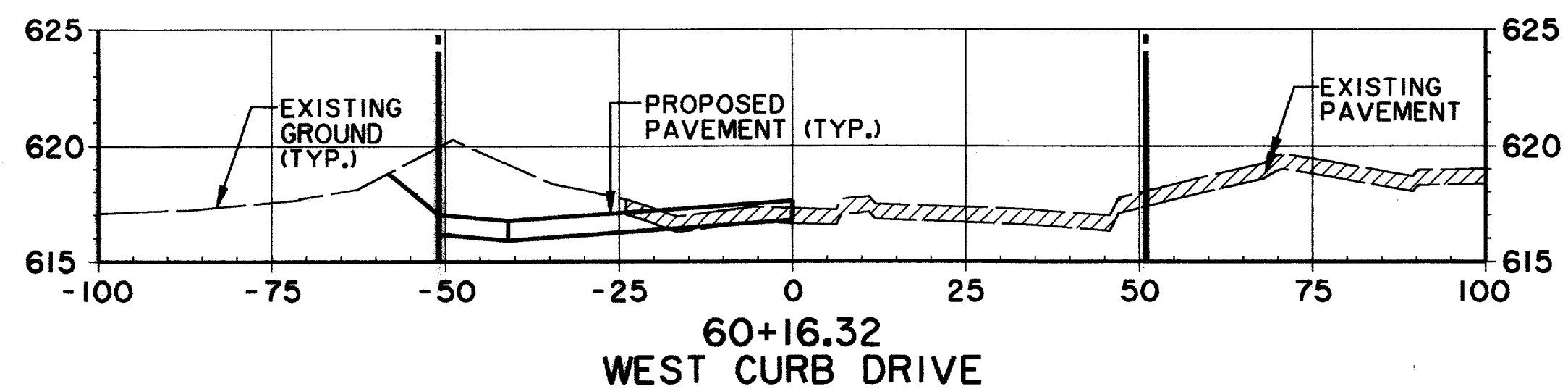
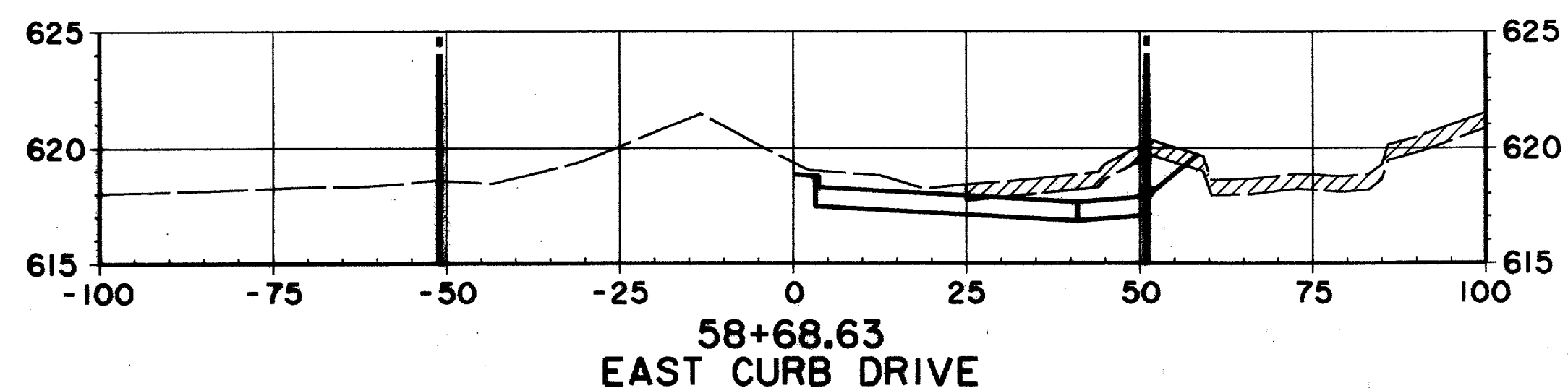
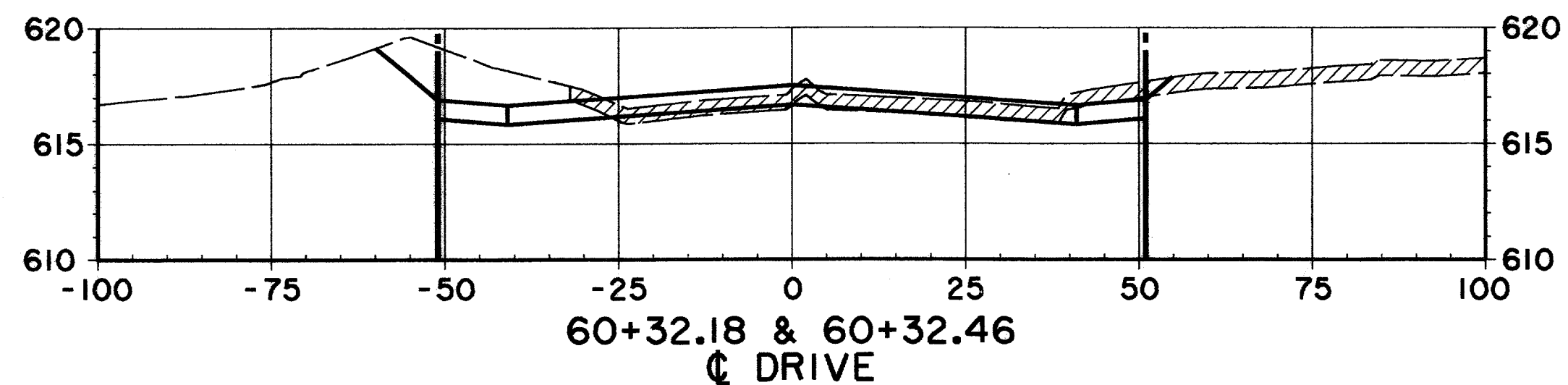
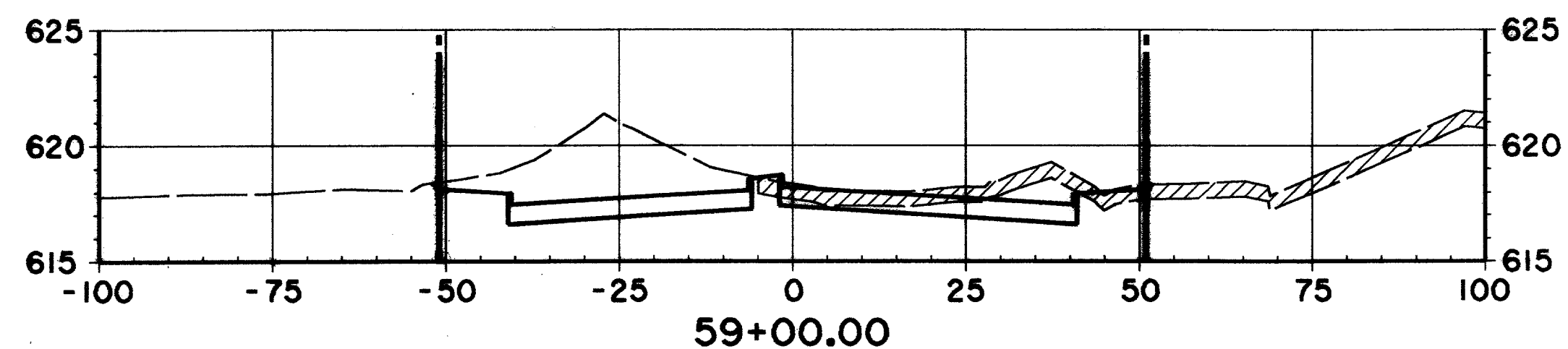
RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



CROSS SECTIONS					
STA. 55+54.98 TO STA. 58+50					
ARAPAHO ROAD					
ADDISON ROAD TO DALLAS NORTH TOLLWAY					
TOWN OF ADDISON, TEXAS					
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin					
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.
HZI	HZI	KAR	H:V = 20' V:1"=40'	OCT 97	1772-01
					NO.
					X-7

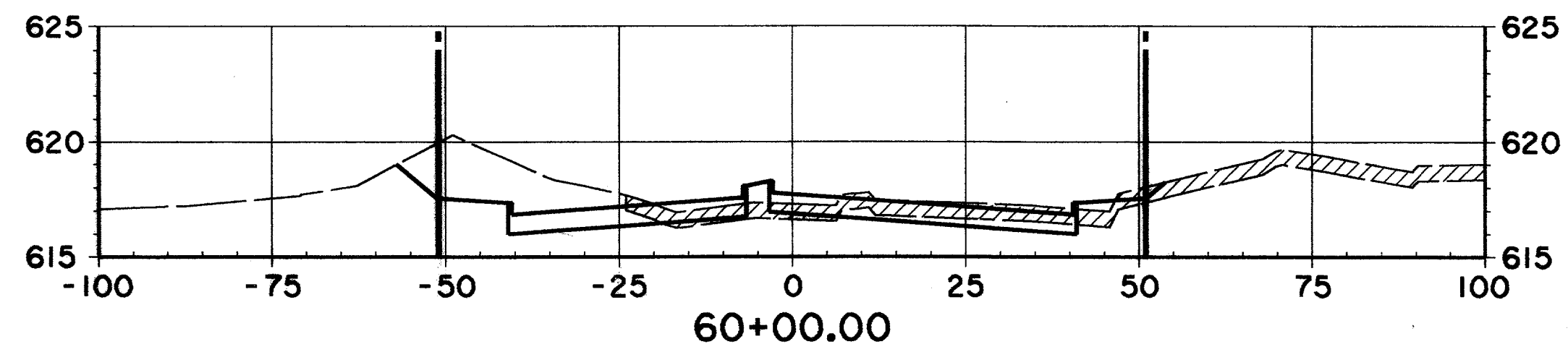
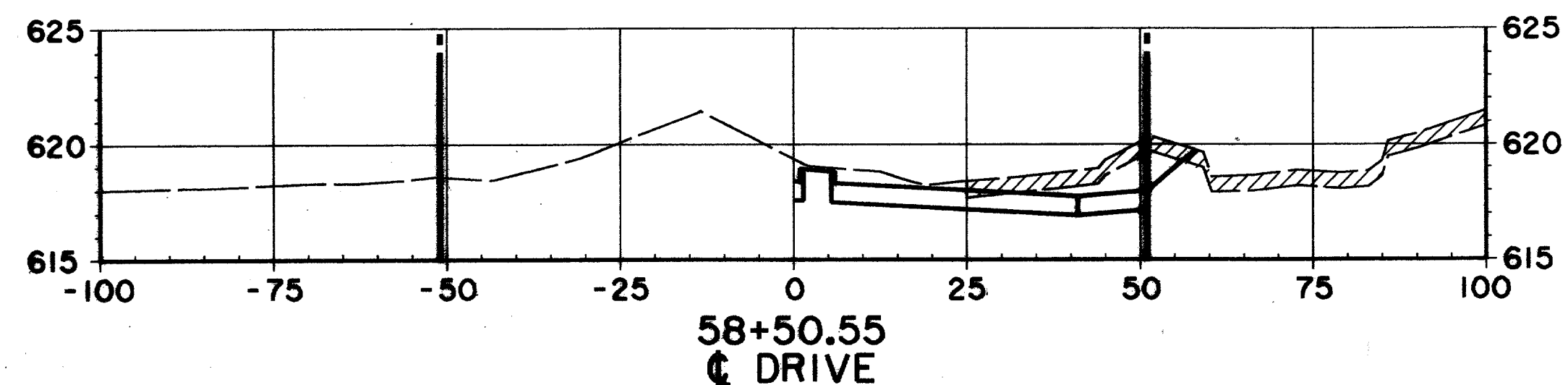


EX. GROUND SOUTH OF  
R.O.W. LINE STA. 57+50  
TO STA. 66+50 MAY HAVE  
BEEN MODIFIED DUE TO  
CONSTRUCTION OF THE  
COLONNADE TOWER III

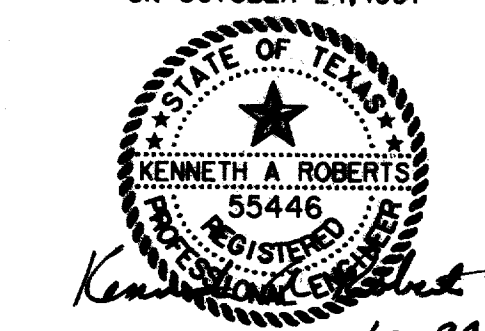


RECORD DOCUMENTS 6/9/2000

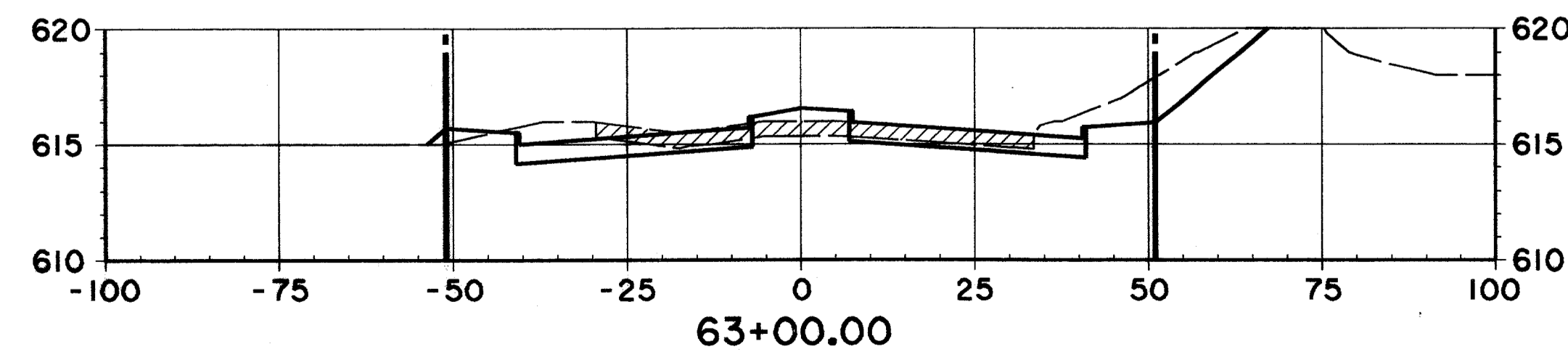
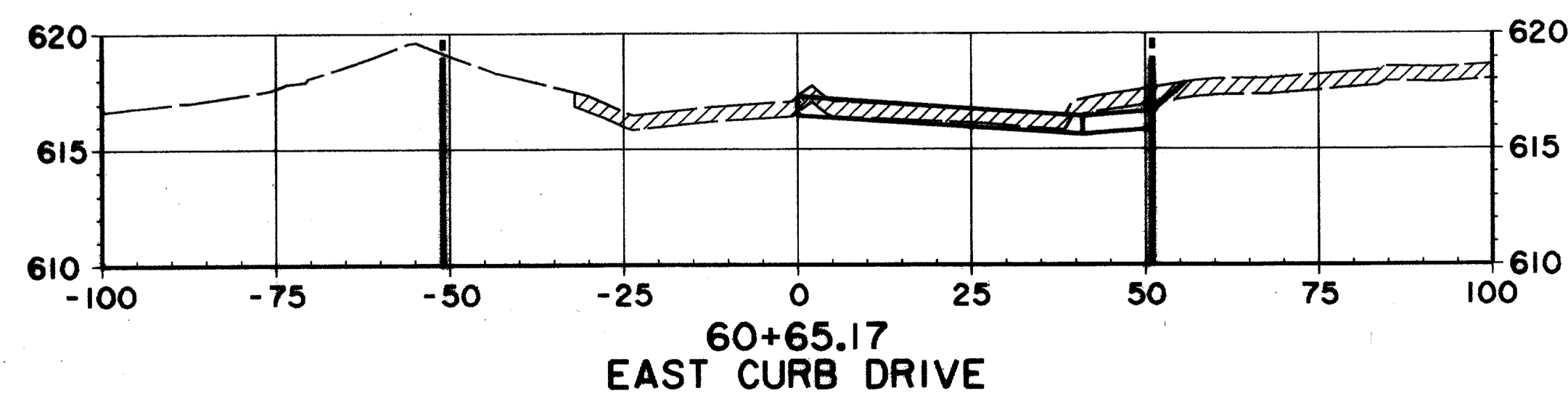
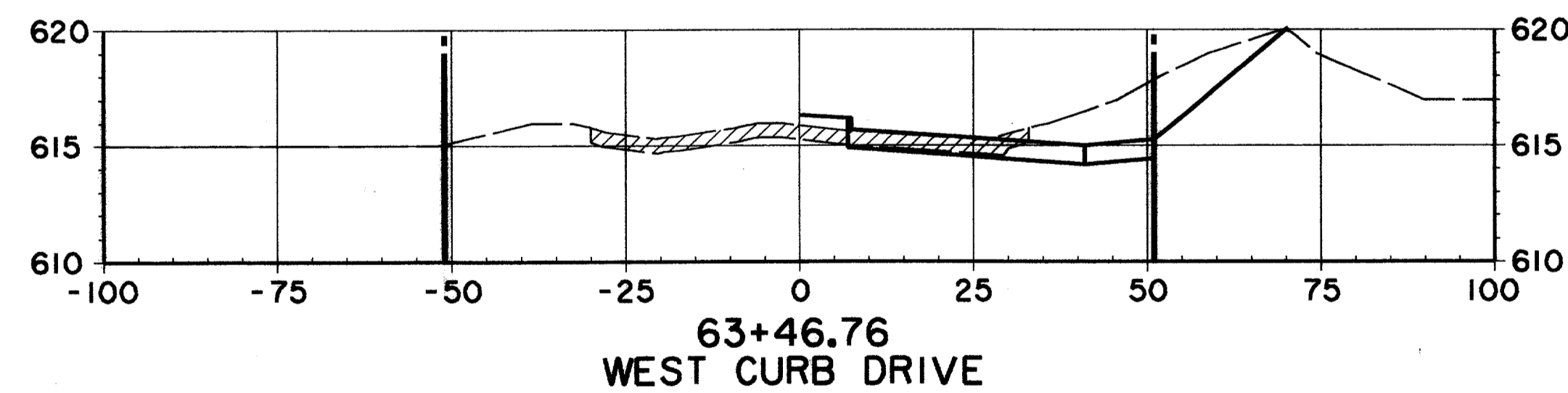
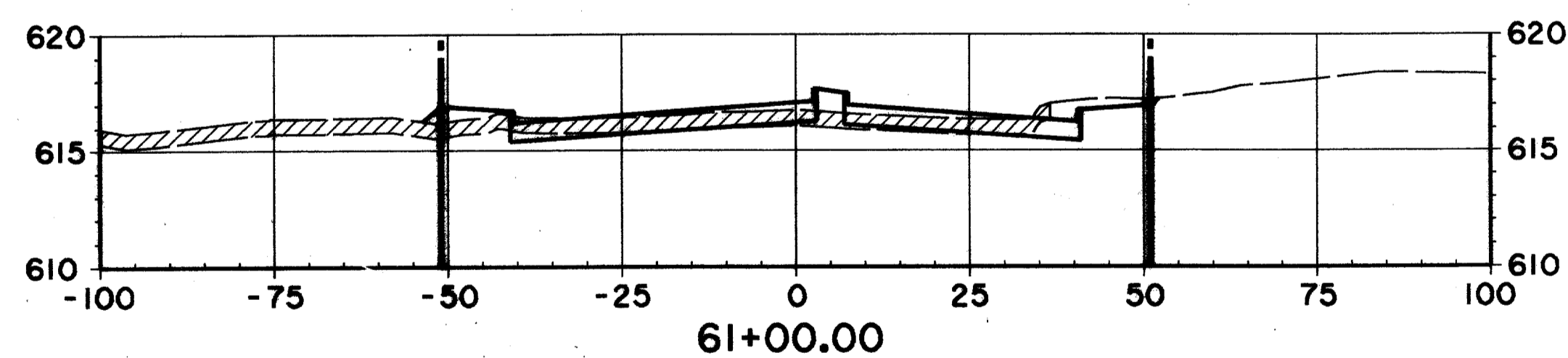
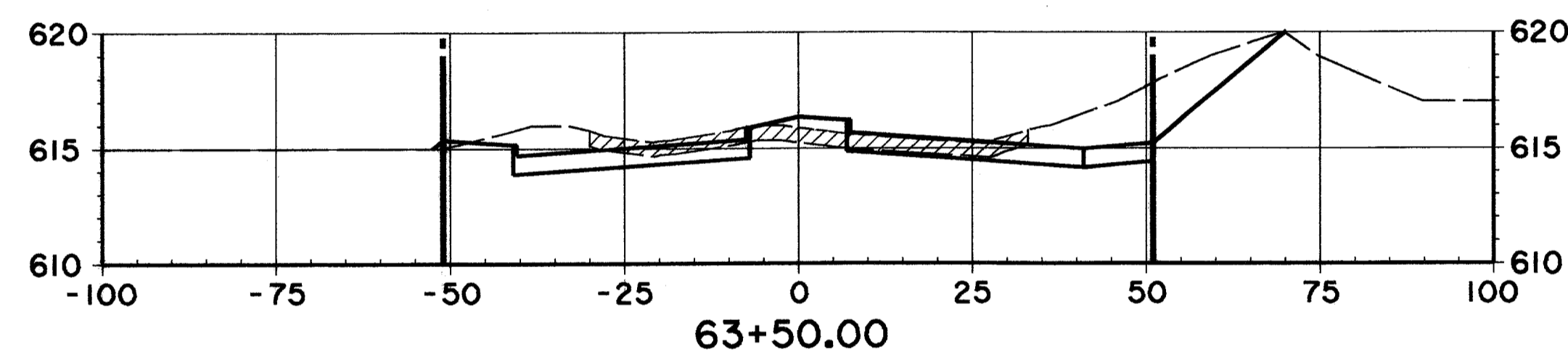
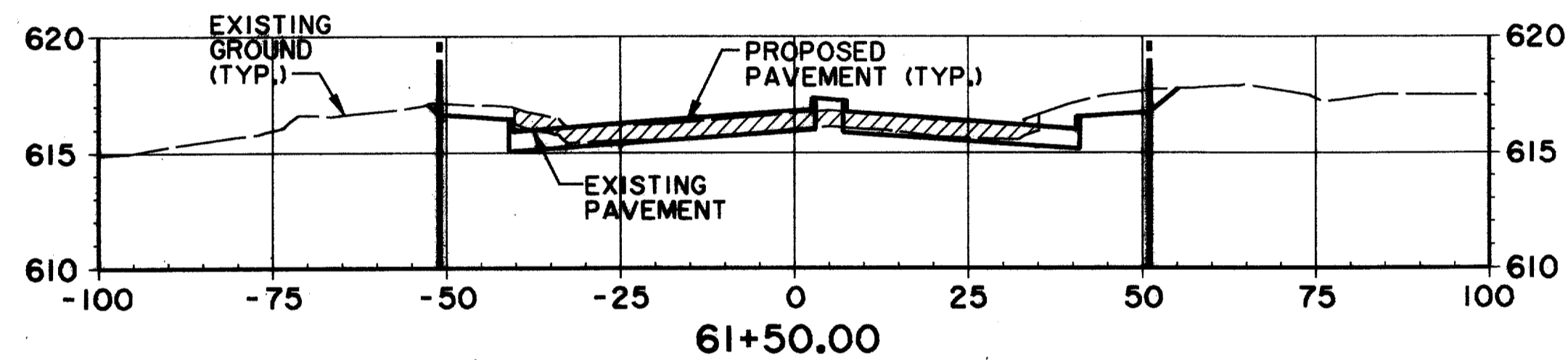
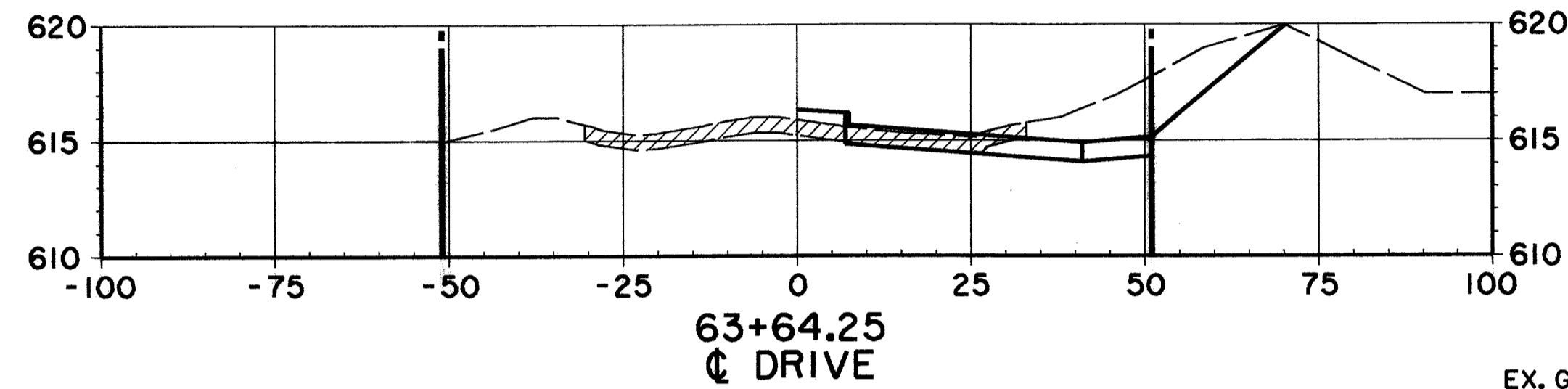
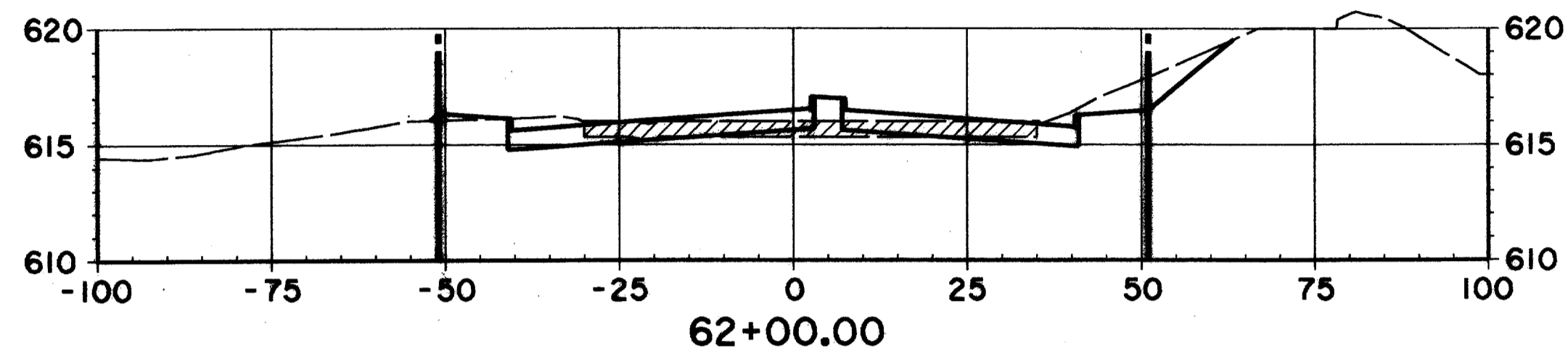
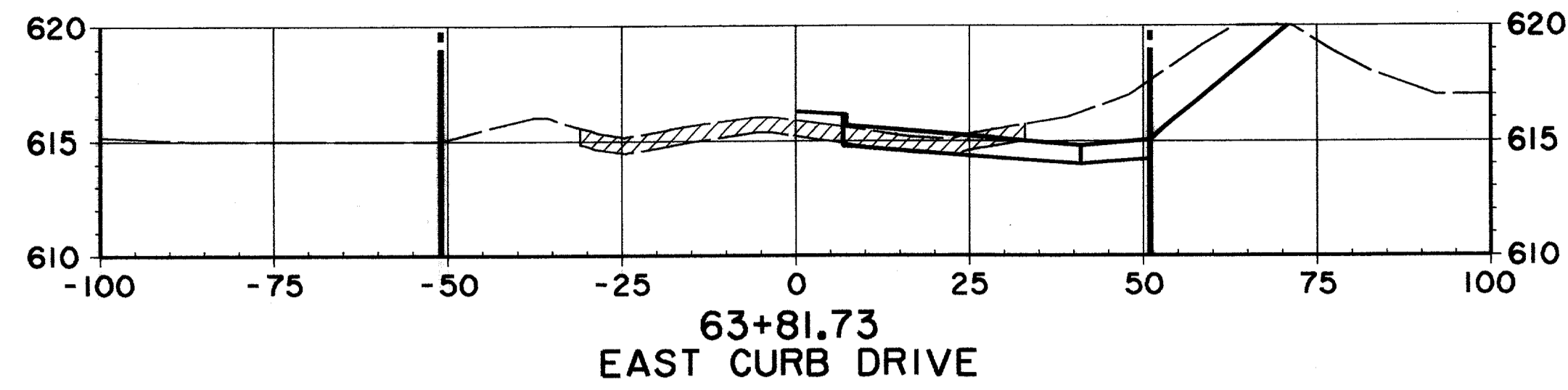
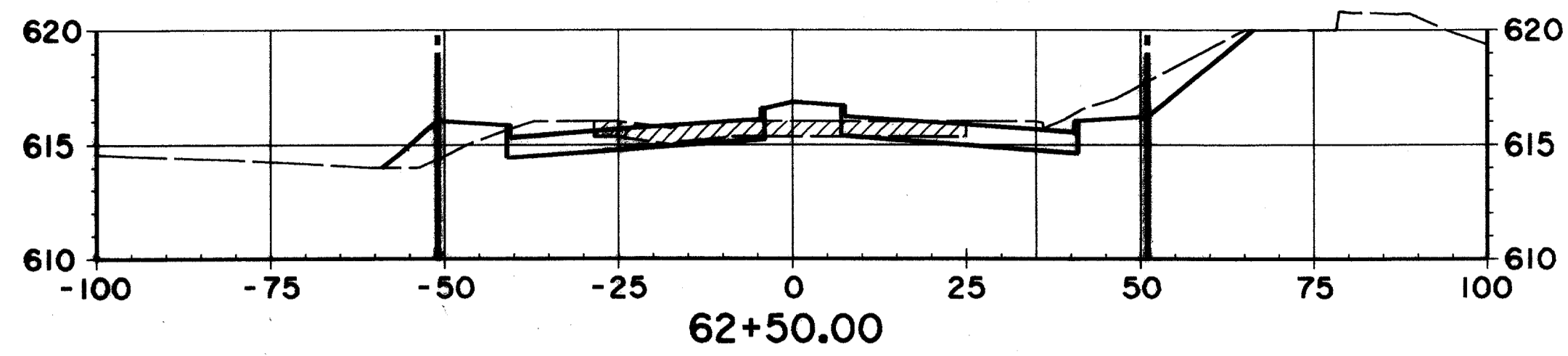
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

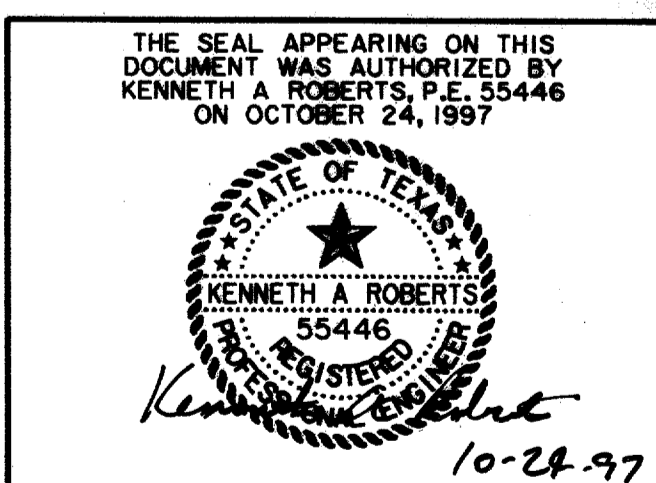


<b>CROSS SECTIONS</b>						
STA. 58+50.55 TO STA. 60+50						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
<b>TOWN OF ADDISON, TEXAS</b>						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H 1"=20' V 1"=8'	OCT 97	1772-01	X-8

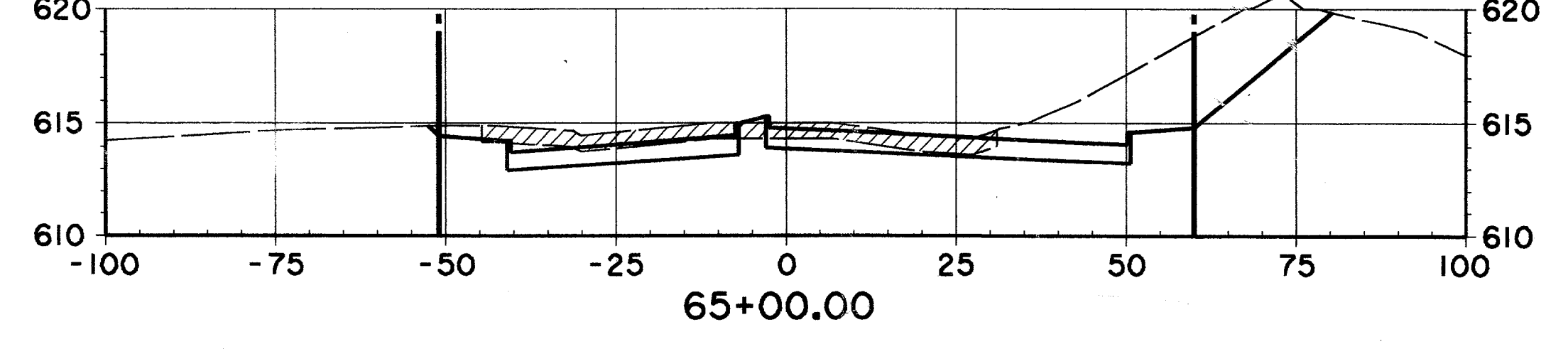
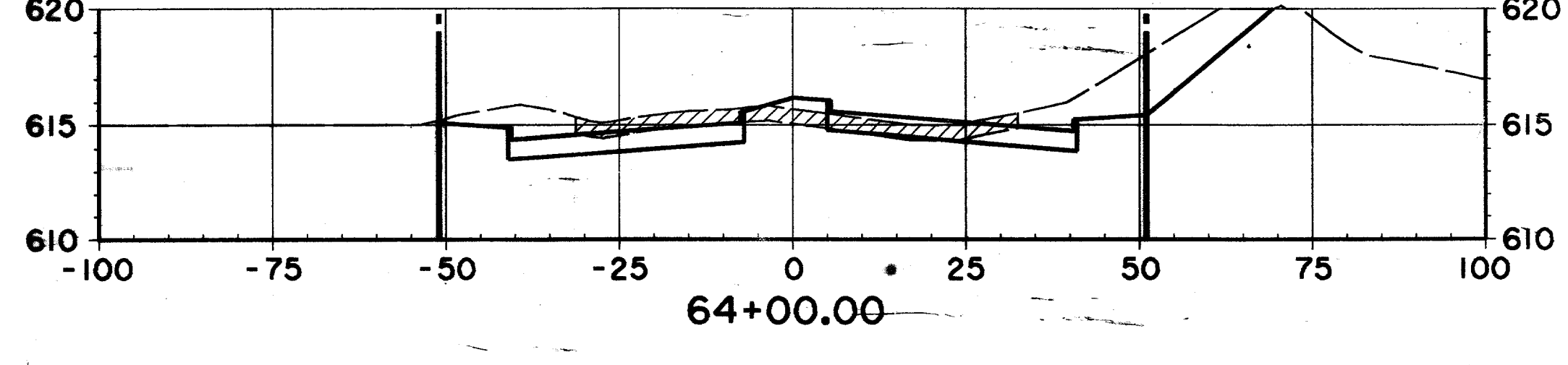
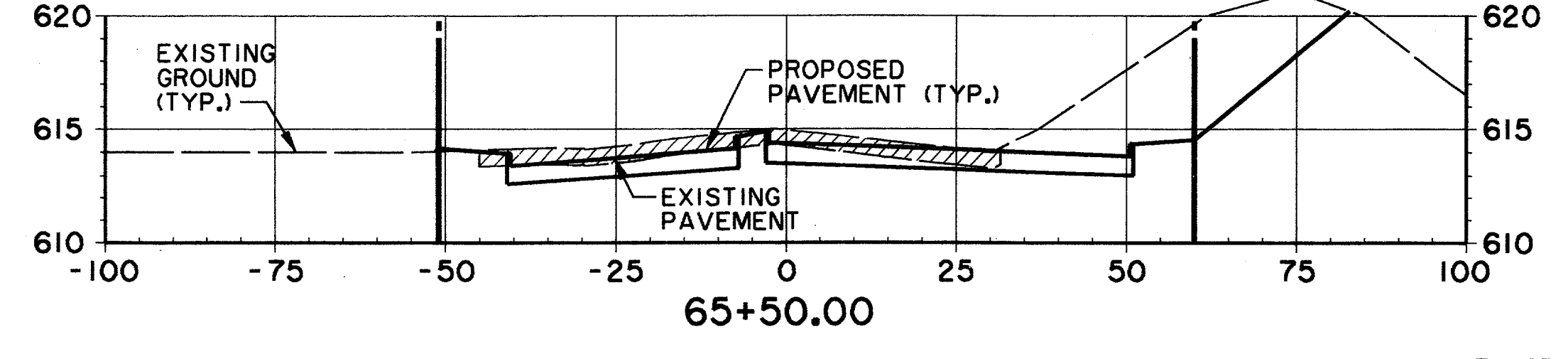
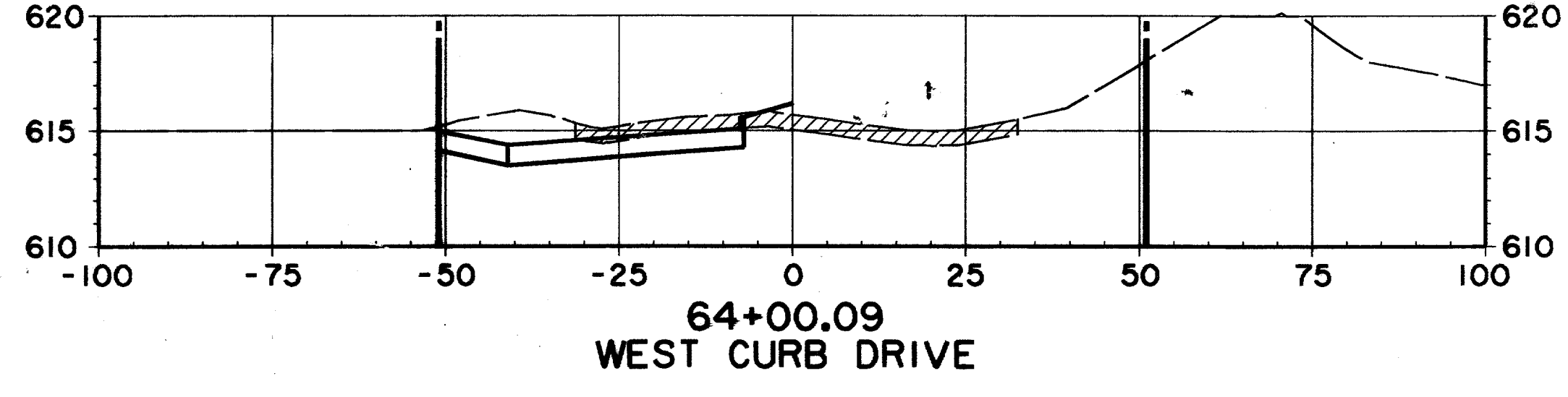
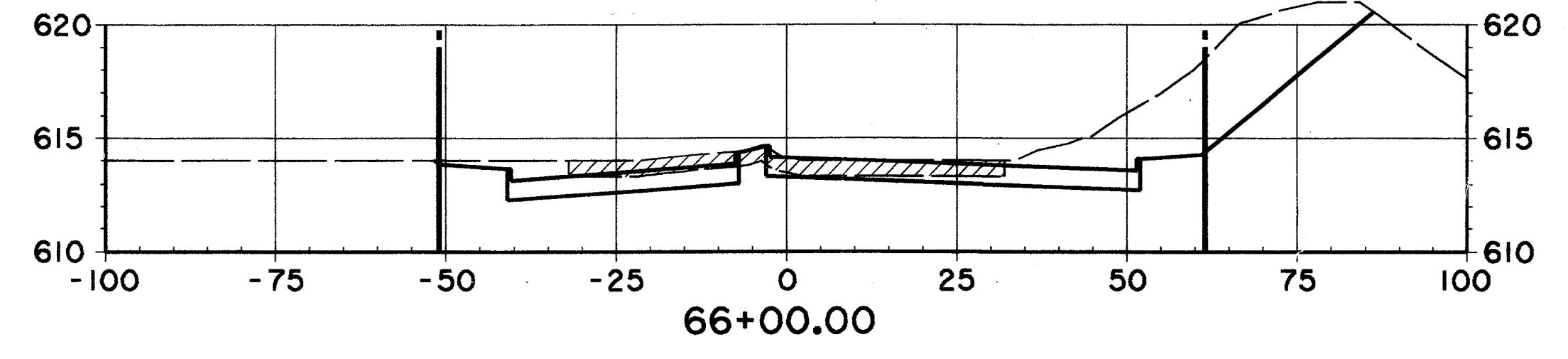
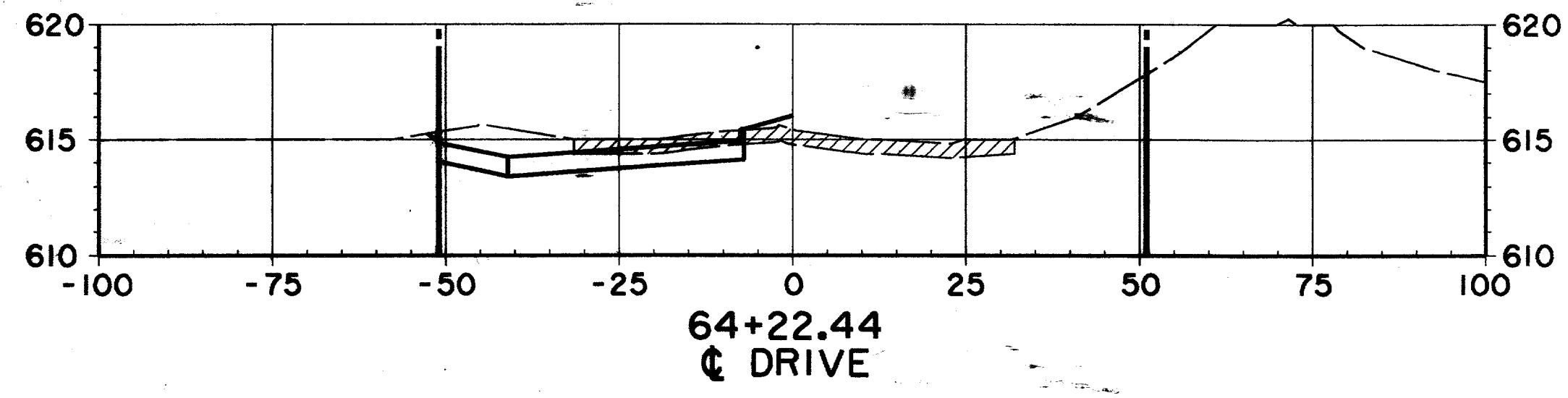
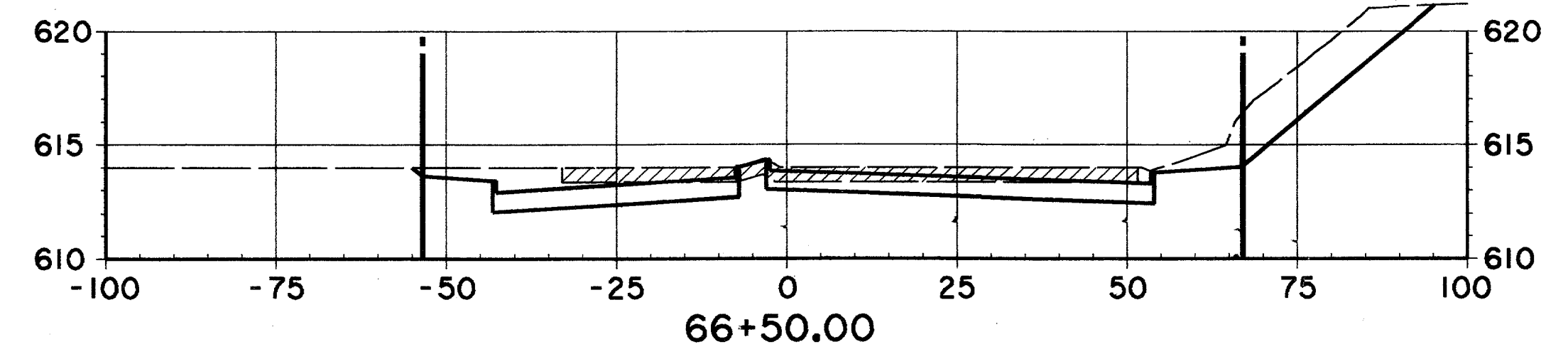
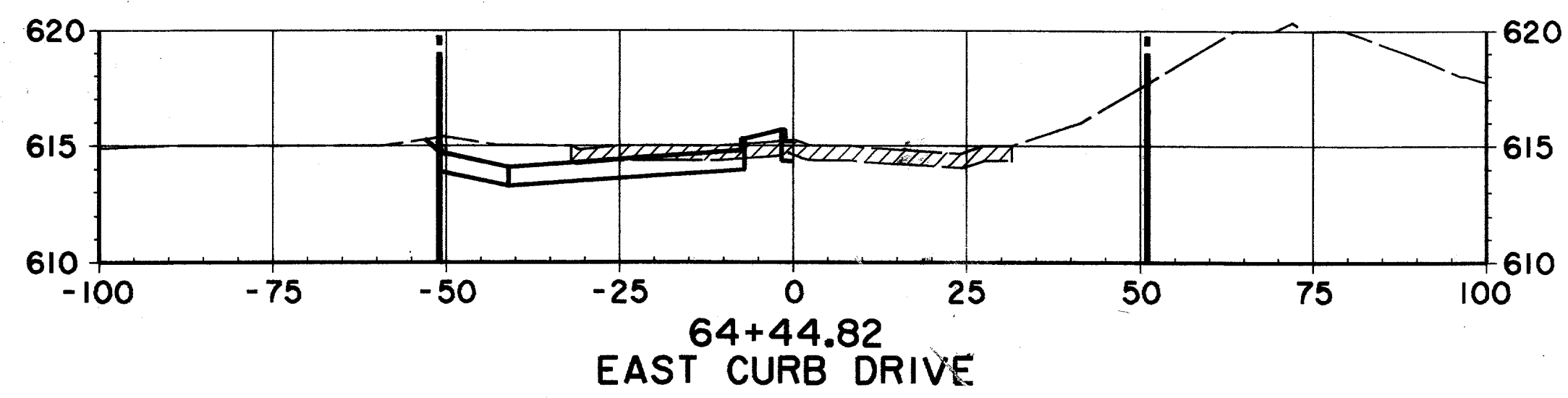
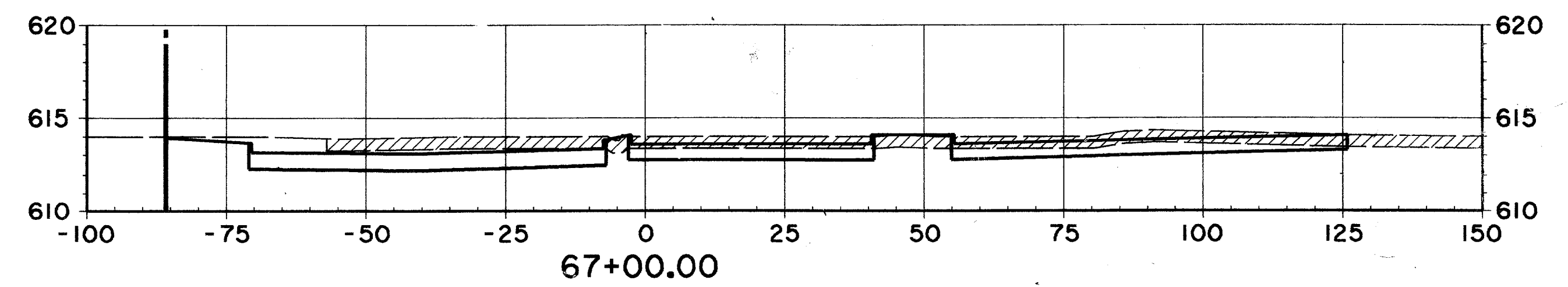
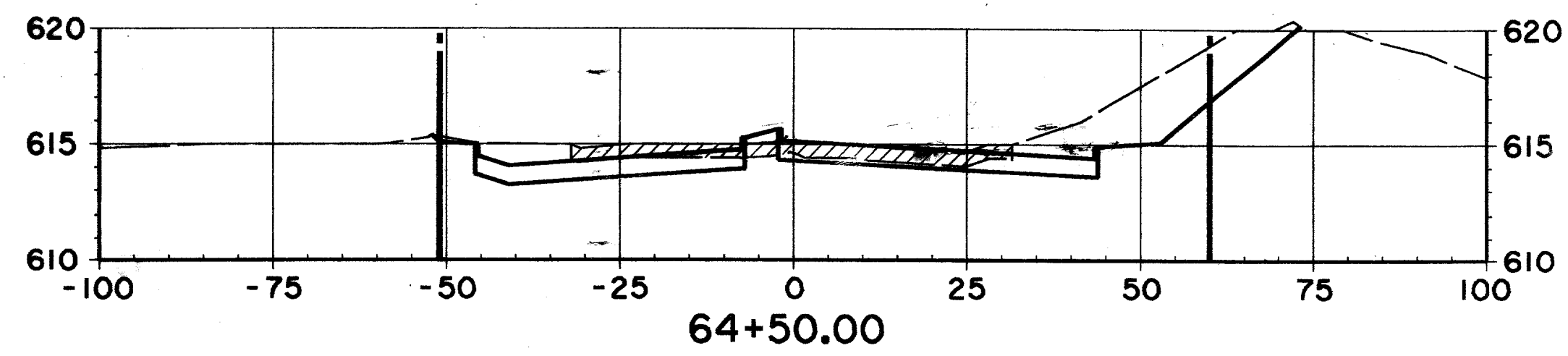


EX. GROUND SOUTH OF R.O.W. LINE STA. 57+50 TO STA. 66+50 MAY HAVE BEEN MODIFIED DUE TO CONSTRUCTION OF THE COLONNADE TOWER III

RECORD DOCUMENTS 6/9/2000  
THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.



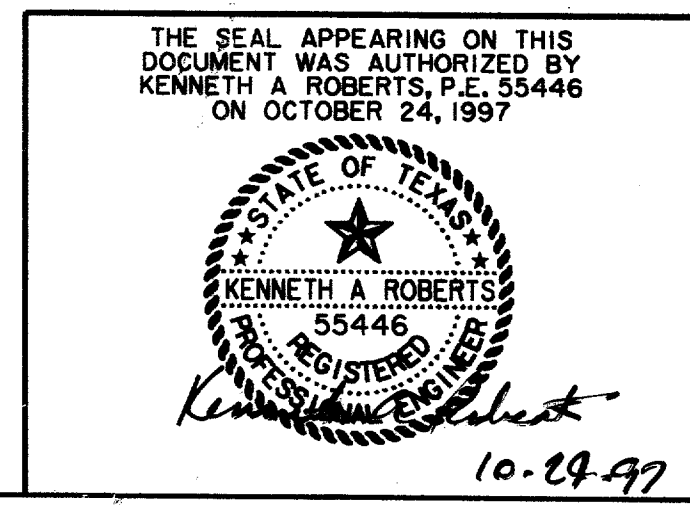
CROSS SECTIONS						
STA. 60+65.17 TO STA. 63+81.73						
ARAPAHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>v</sub> 1"=20' V <sub>v</sub> 1"=8'	OCT 97	1772-01	X-9



RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

EX. GROUND SOUTH OF R.O.W. LINE STA. 57+50 TO STA. 66+50 MAY HAVE BEEN MODIFIED DUE TO CONSTRUCTION OF THE COLONNADE TOWER III



CROSS SECTIONS						
STA. 64+00 TO STA. 67+00						
ARAPÁHO ROAD						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Hullif-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>v</sub> 1"=20' V <sub>1</sub> 1"=6'	OCT 97	1772-01	X-10

ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS

MATCHLINE 'C'

MATCHLINE 'C'

100.68' @ 2.0%  
F.L. = 618.66  
T.C. = 624.75

120.37' @ 2.0%  
F.L. = 618.65  
T.C. = 624.75

- (26) RED OAK  
(4" CAL.)
- (36) FOSTER HOLLY (12' HT.)
- ASIAN JASMINE
- 4" POTS, 9" O.C.
- BERMUDA SOD

All median and parkway planting areas shall have 6 inches of topsoil placed prior to planting. The topsoil shall be tilled into the soil below a minimum of 4 inches deep. Backfill in the medians under the proposed topsoil shall consist of friable native material free of rocks and debris. The cost of topsoil and median backfill shall be subsidiary to the contract.

TOWN OF  
ADDISON

CARRAMERICA LIMITED  
PARTNERSHIP

119.91' @ 1.0%  
F.L. = 619.26

120.00' @ 1.0%  
F.L. = 619.25

6" STEEL EDGINGS  
(TYPICAL)

BERMUDA SOD

LIMIT OF WORK

QUORUM  
DRIVE

DALLAS AREA  
RAPID TRANSIT

MCM CO.

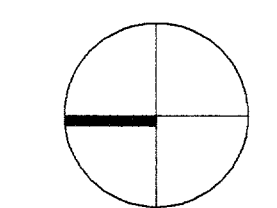
F.L. = 621.68  
T.C. = 625.68

F.L. = 621.97  
T.C. = 625.97

NOTE:  
ALL LANDSCAPE TO BE AUTOMATICALLY  
IRRIGATED WITH 100% COVERAGE.

MATCHLINE 'B'

MATCHLINE 'B'



SCALE: 1"=20'

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.

THIS DRAWING AND THE DESIGN SHOWN  
IS THE PROPERTY OF THE LANDSCAPE  
ARCHITECT. THE REPRODUCTION, COPYING,  
OR USE OF THIS DRAWING WITHOUT  
WRITTEN CONSENT IS PROHIBITED AND  
ANY INFRINGEMENT WILL BE SUBJECT  
TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

Revisions

No.	Date	Item
△	02/10/98	CITY REVISIONS AS LISTED IN ADDENDUM NO. 5
	05/18/98	ADDITION OF TREE DRAINS

Registration

W. T. Arterburn

KDH/RFM  
Drawn

Checked  
97018  
Project No.

12/12/97  
Date

Sheet Title

TREWELL  
DRAINS/  
PLANTING  
PLAN

Sheet No.

PL-3

ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS

Revisions

No.	Date	Item
1	03/10/98	CITY REVISIONS AS LISTED IN ADDENDUM NO. 5
2	05/18/98	ADDITION OF TREE DRAINS

Registration

STATE OF TEXAS  
WILLIAM T. ARTERBURN  
868  
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

KDH/RFM  
Drawn

Checked  
97018 12/12/97  
Project No. Date

Sheet Title

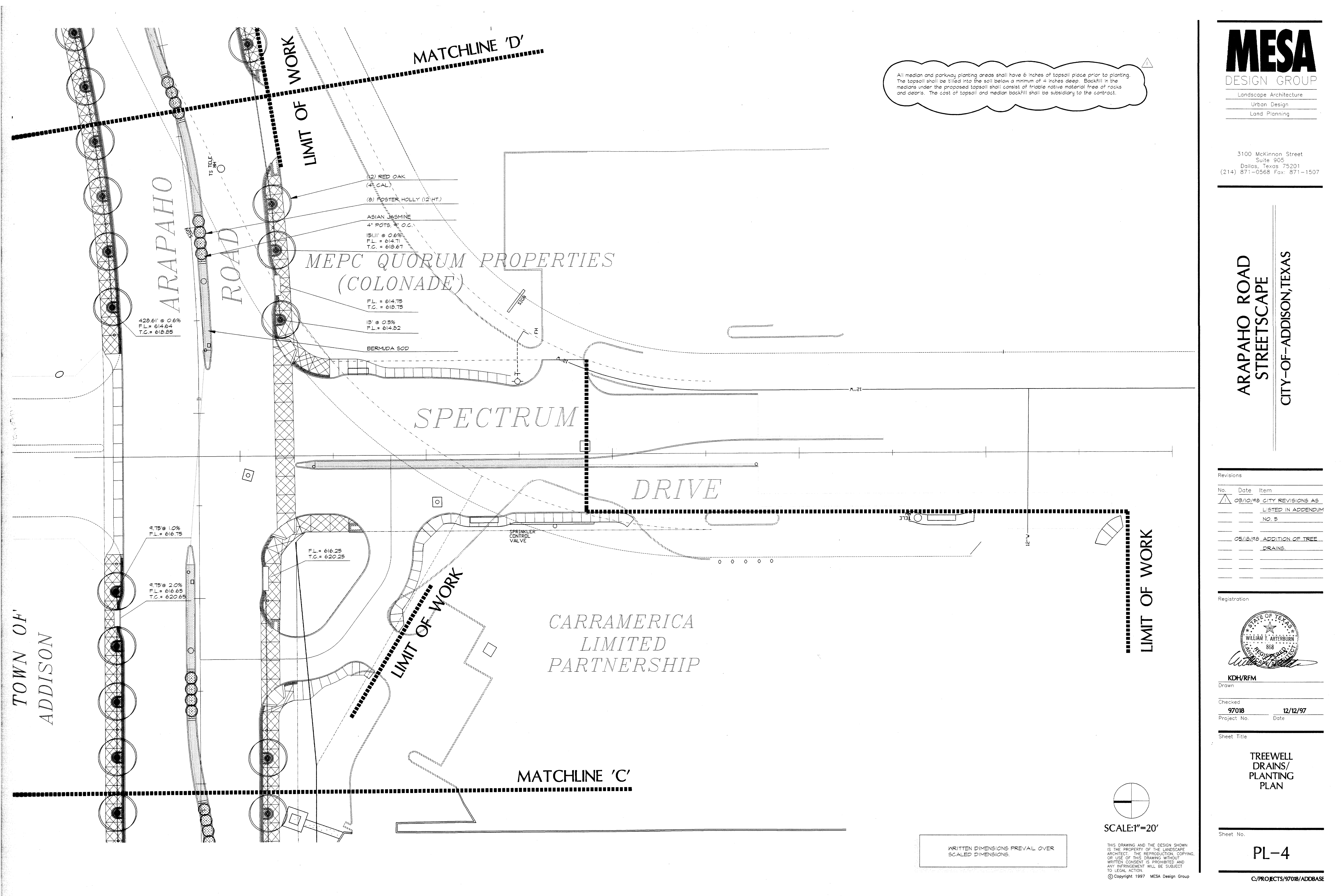
TREEWELL  
DRAINS/  
PLANTING  
PLAN

Sheet No.

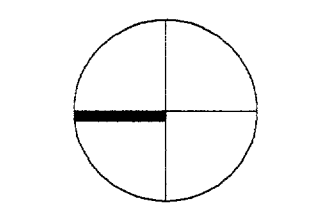
PL-4

C:\PROJECTS\97018\ADDBASE

All median and parkway planting areas shall have 6 inches of topsoil placed prior to planting. The topsoil shall be tilled into the soil below a minimum of 4 inches deep. Backfill in the medians under the proposed topsoil shall consist of friable native material free of rocks and debris. The cost of topsoil and median backfill shall be subsidiary to the contract.



WRITTEN DIMENSIONS PREVAIL OVER SCALED DIMENSIONS.



SCALE: 1"=20'

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

TOWN OF  
ADDISON

ARAPAHO  
ROAD

MEPC QUORUM PROPERTIES  
(COLONADE)

SPECTRUM  
DRIVE

CARRAMERICA  
LIMITED  
PARTNERSHIP

MATCHLINE 'C'

MATCHLINE 'D'

LIMIT OF WORK

LIMIT OF WORK

LIMIT OF WORK

(2) RED OAK  
(4" CAL.)  
(8) FOSTER HOLLY (12 HT.)  
ASIAN JASMINE  
4" POTS @ O.C.  
15/11' @ 0.6%  
F.L. = 614.71  
T.C. = 618.67

F.L. = 614.75  
T.C. = 618.75  
13' @ 0.5%  
F.L. = 614.52

BERMUDA SOD

428.61' @ 0.6%  
F.L. = 614.64  
T.C. = 618.85

4.75' @ 1.0%  
F.L. = 616.75

4.75' @ 2.0%  
F.L. = 616.65  
T.C. = 620.65

F.L. = 616.25  
T.C. = 620.25

SPRINKLER  
CONTROL  
VALVE



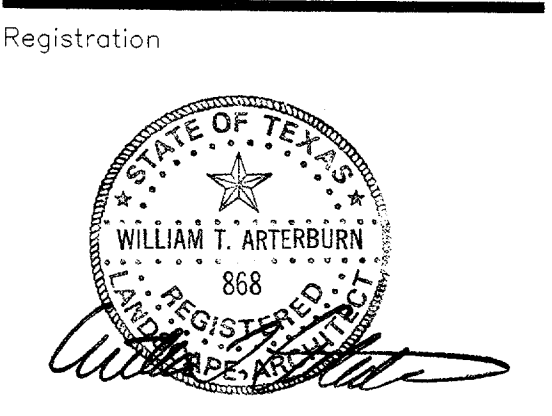
**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

All median and parkway planting areas shall have 6 inches of topsoil placed prior to planting. The topsoil shall be tilled into the soil below a minimum of 4 inches deep. Backfill in the medians under the proposed topsoil shall consist of friable native material free of rocks and debris. The cost of topsoil and median backfill shall be subsidiary to the contract.

Revisions

No.	Date	Item
△	03/10/98	CITY REVISIONS AS LISTED IN ADDENDUM NO. 5
	05/18/98	ADDITION OF TREE DRAINS

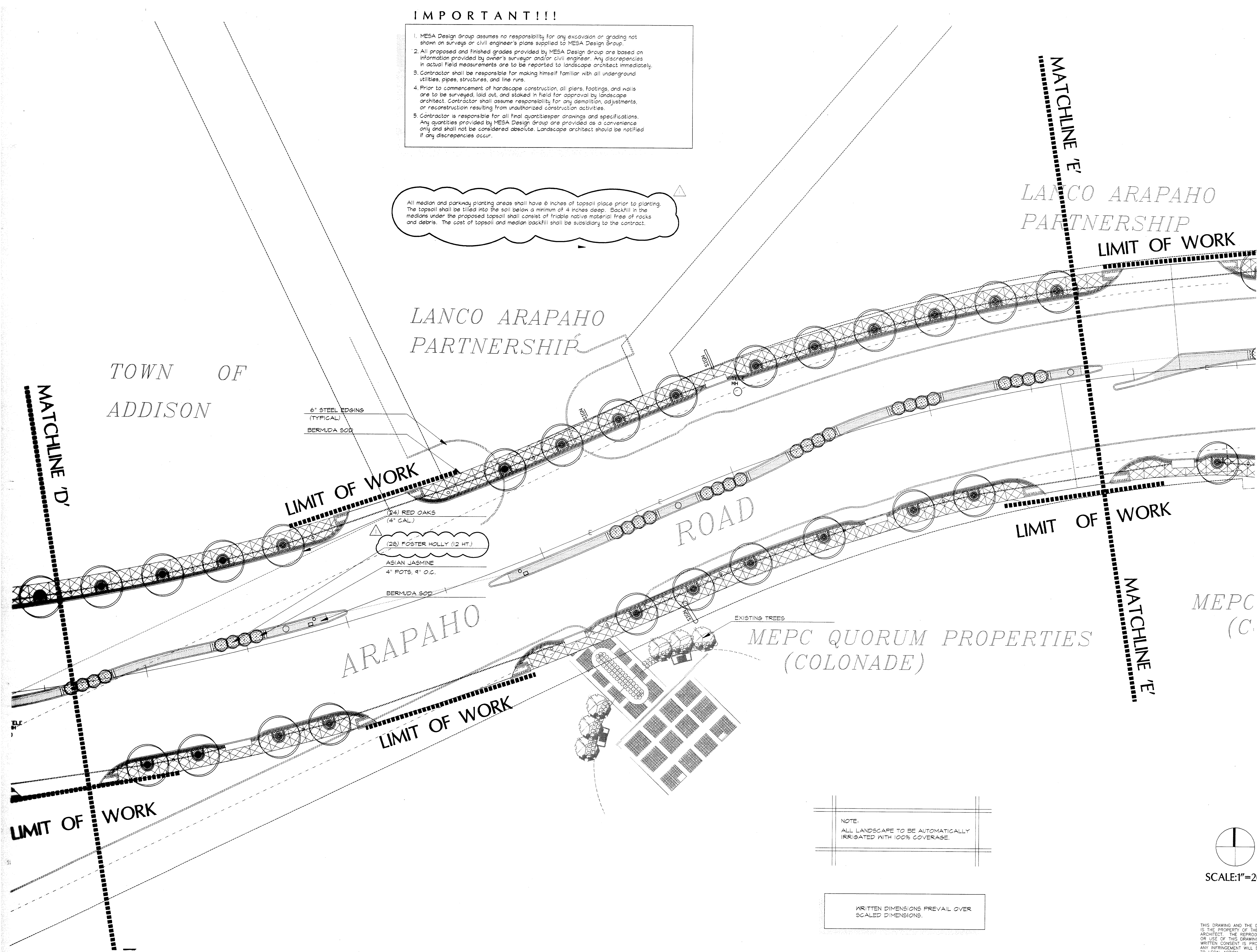


**KDH/RFM**  
Drawn

Checked  
**97018** **05/18/98**  
Project No. Date

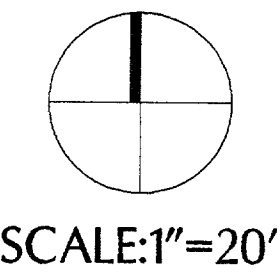
Sheet Title  
**TREWELL DRAINS/  
PLANTING PLAN**

Sheet No.  
**PL-5**



NOTE:  
ALL LANDSCAPE TO BE AUTOMATICALLY IRRIGATED WITH 100% COVERAGE.

WRITTEN DIMENSIONS PREVAIL OVER SCALED DIMENSIONS.



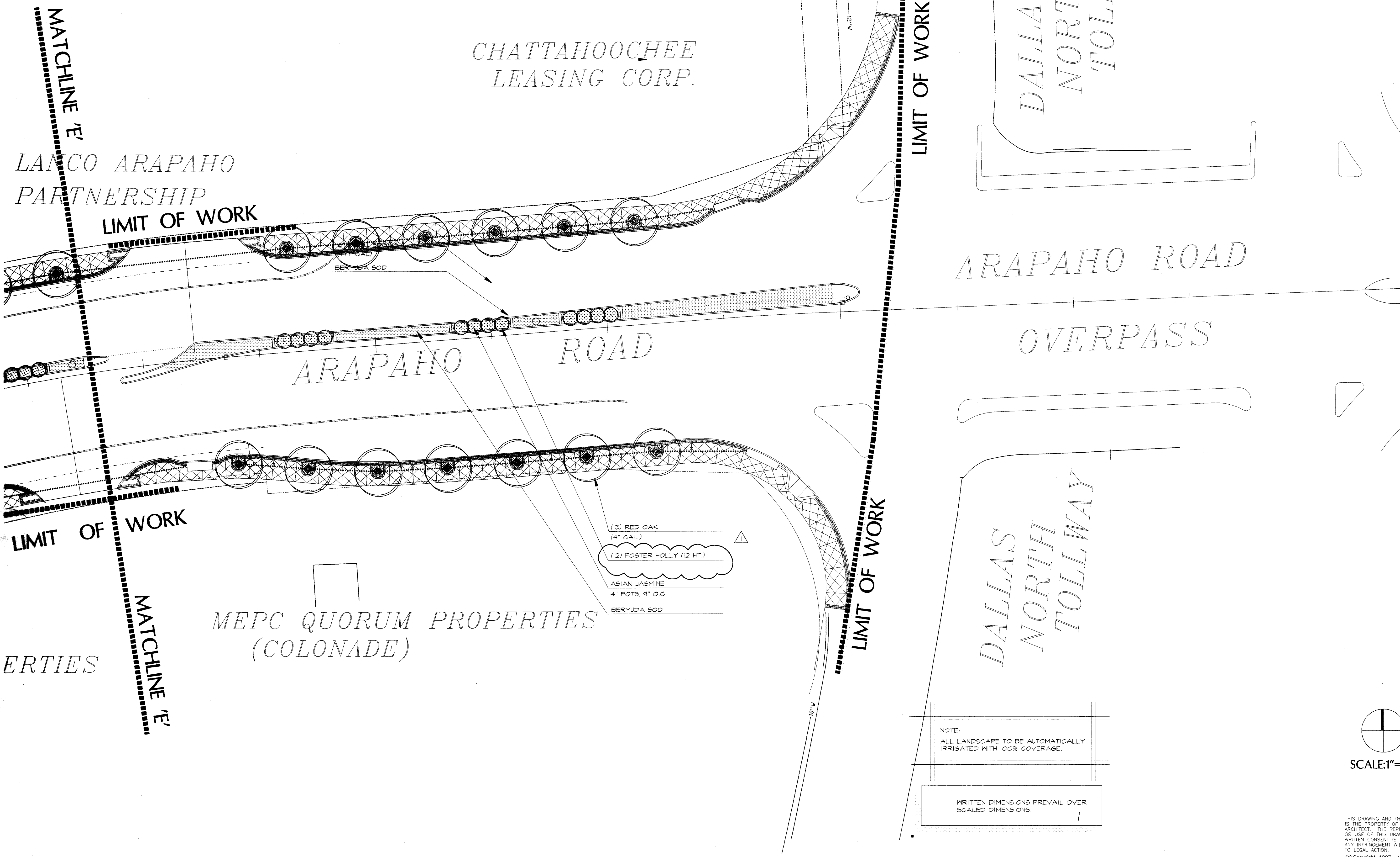
SCALE: 1" = 20'

**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

All median and parkway planting areas shall have 6 inches of topsoil placed prior to planting. The topsoil shall be tilled into the soil below a minimum of 4 inches deep. Backfill in the medians under the proposed topsoil shall consist of friable native material free of rocks and debris. The cost of topsoil and median backfill shall be subsidiary to the contract.

3100 McKinnon Street  
Suite 905  
Dallas, Texas 75201  
(214) 871-0568 Fax: 871-1507



ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS

Revisions

No.	Date	Item
1	03/10/98	CITY REVISIONS AS LISTED IN ADDENDUM NO. 5
2	05/18/98	ADDITION OF TREE DRAINS

Registration

WILLIAM T. ARTERBURN  
866

KDH/RFM  
Drawn

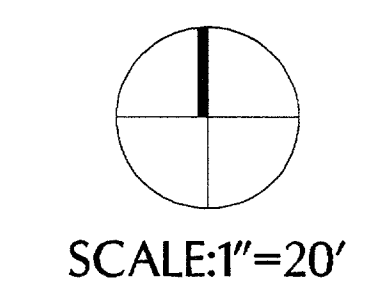
Checked  
97018  
Project No.

05/18/98  
Date

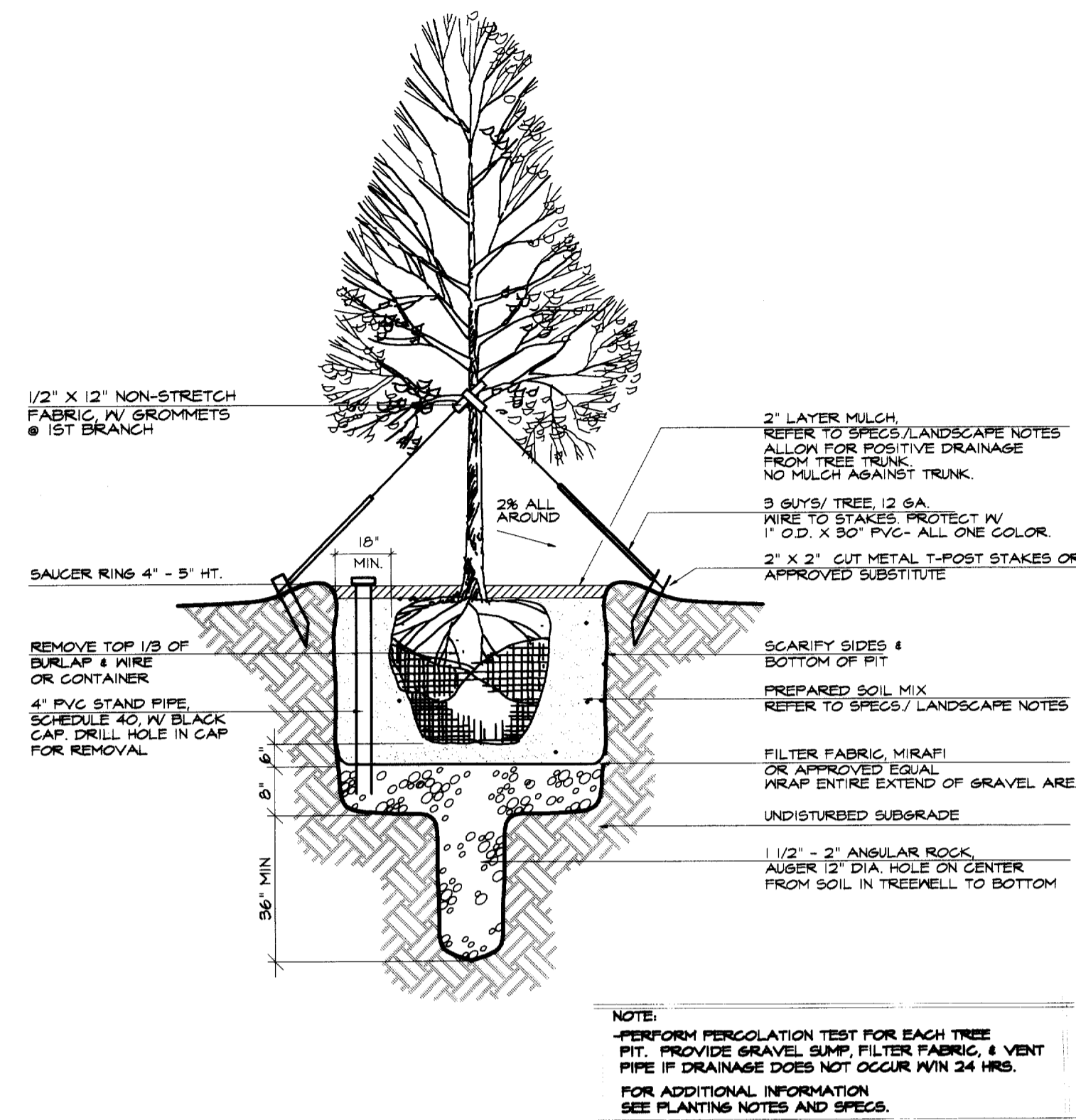
Sheet Title  
**TREWELL DRAINS/PLANTING PLAN**

Sheet No.  
**PL-6**

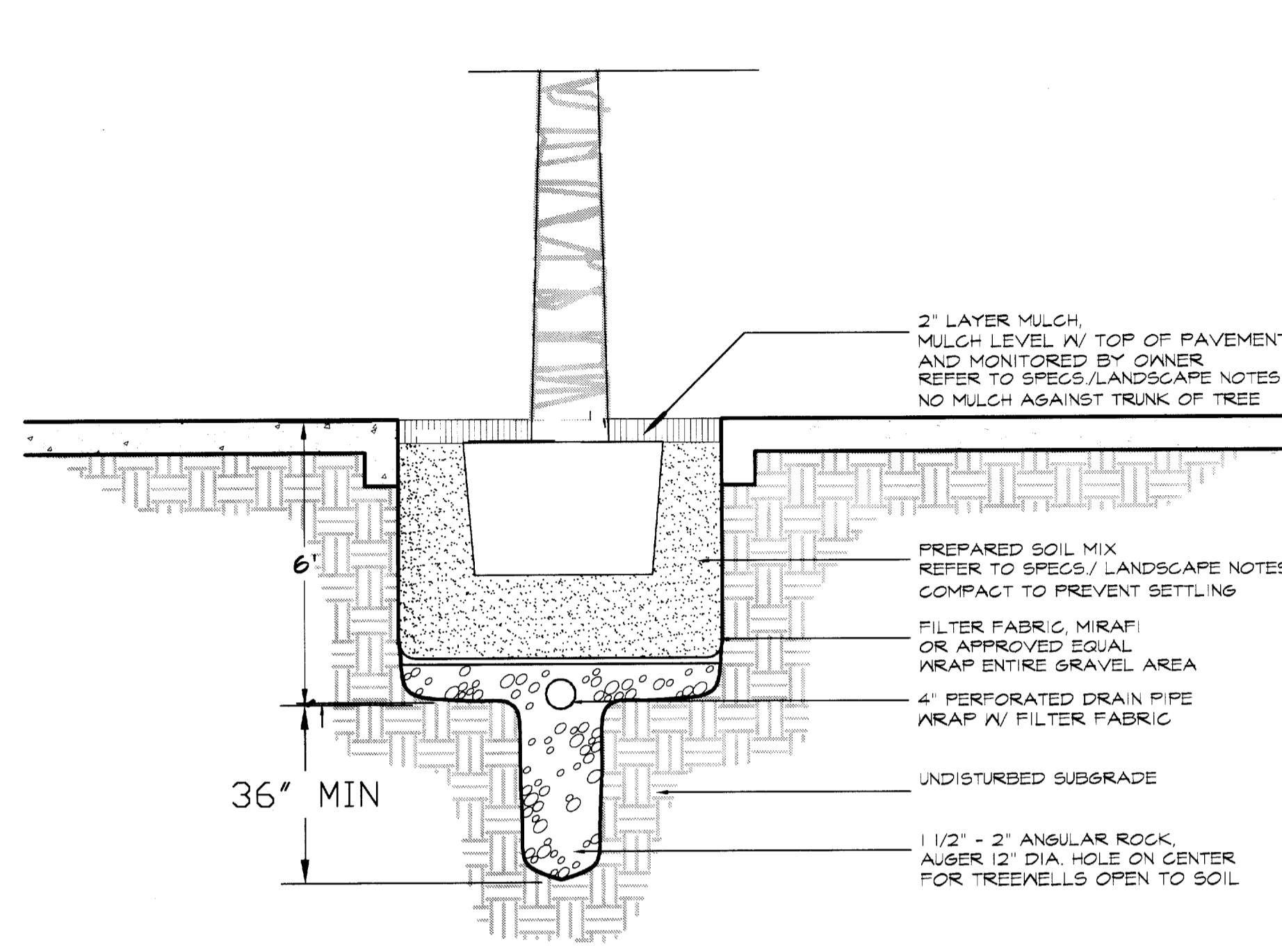
C:/PROJECTS/97018/ADDBASE



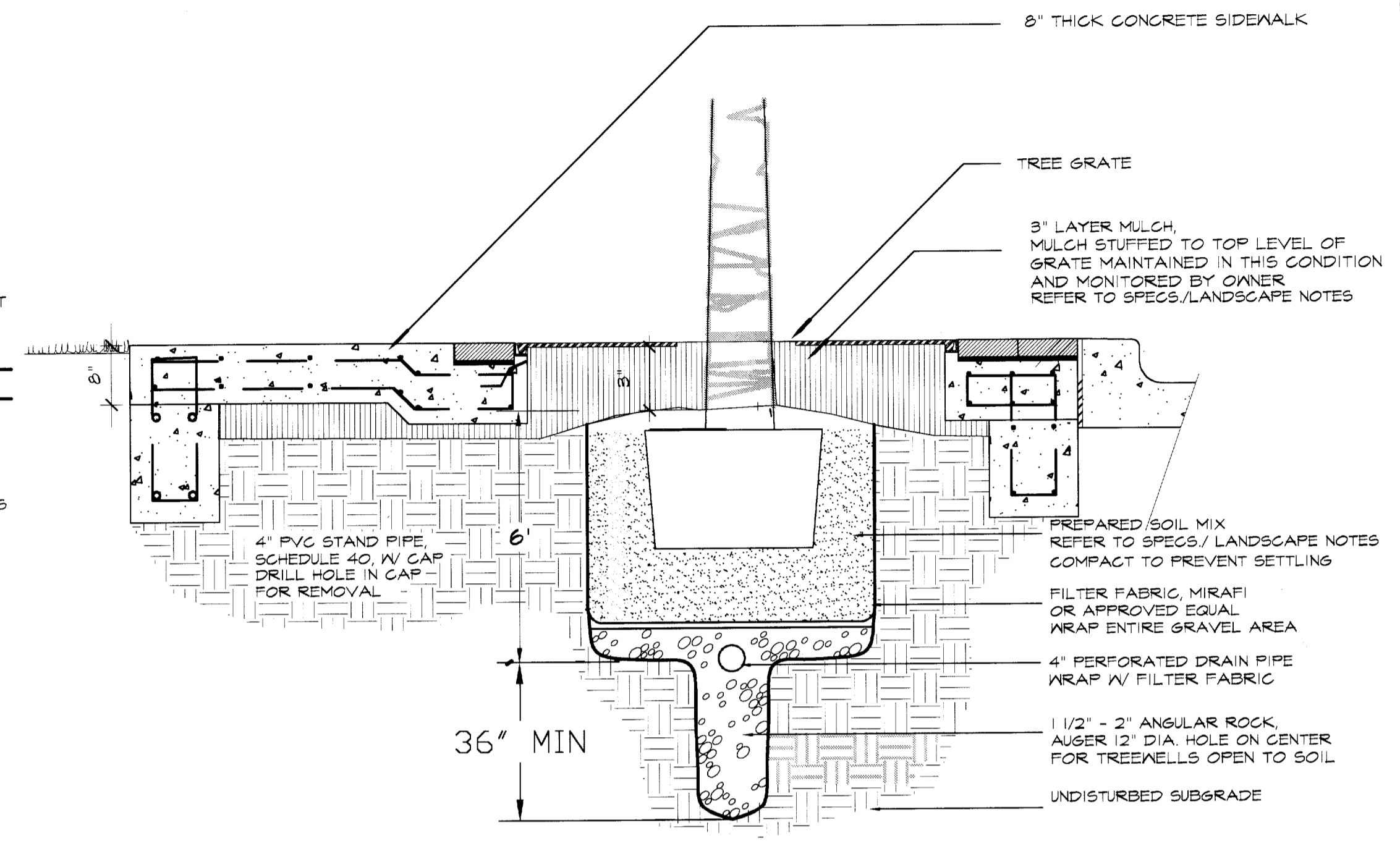
THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group



**A** ORNAMENTAL TREE PLANTING DETAIL  
HORNBEAM / HOLLY



**B** TREE WELL PLANTING DETAIL  
RED OAKS ALONG QUORUM DRIVE



**C** TREE GRATE PLANTING DETAIL  
RED OAKS ALONG ARAPAHO ROAD

**LANDSCAPE NOTES**

**PREPARATION**  
LANDSCAPE CONTRACTOR AND REPRESENTATIVE OF OWNER SHALL BE RESPONSIBLE FOR VERIFYING THE CORRECT LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND LINE RUNS IN THE FIELD PRIOR TO THE INSTALLATION OF ANY PLANT MATERIALS.

**PLANT LOCATIONS**  
REFER TO PLANTING PLAN FOR PLANTING LOCATIONS AND PLANT MATERIAL LEGEND FOR SPECIFICATIONS, PLANT MATERIAL LOCATION TO BE STAKED IN THE FIELD AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.

**GRADING AND DRAINAGE**  
MESA DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR FAILURE OF ANY HARDSCAPE ELEMENT SUCH AS WALKS, ENTRANCES TO STRUCTURES, AND PLANTER BEDS FORMED OR ENCLOSED BY EDGINGS AND PLATWORK, WHICH DO NOT DRAIN DUE TO IMPROPER SET UP OF ELEVATIONS DURING CONSTRUCTION. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING, VERIFYING THAT WATER DRAINS.

**COORDINATION**  
LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH OTHER CONTRACTORS ON SITE AS REQUIRED TO ACCOMPLISH ALL PLANTING OPERATIONS.

**MAINTENANCE**  
LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANTING BEDS IN A NEED AND DEBRIS FREE CONDITION AND SHALL ACCOMPLISH WATERING BY HAND AS DEEMED NECESSARY UNTIL SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER. THE CONTRACTOR SHALL MAINTAIN ALL WORK FOR A PERIOD OF 90 DAYS AFTER FINAL ACCEPTANCE.

**VERIFICATION**  
CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES PER DRAWINGS AND SPECIFICATIONS BY THE LANDSCAPE ARCHITECT. PLANT QUANTITIES HAVE BEEN PROVIDED AS A CONVENIENCE ONLY AND SHALL NOT BE CONSIDERED ABSOLUTE. LANDSCAPE ARCHITECT TO BE NOTIFIED IF DISCREPANCIES OCCUR. OTHERWISE, THE CONTRACTOR IS TO BID THEIR OWN VERIFIED QUANTITIES.

**PLANTING BEDS**  
ALL BED AREAS ARE TO BE LEFT 3\"/>

**MULCH**  
AFTER SETTLEMENT AND COMPACTION ALL PLANTING BEDS SHALL RECEIVE A MINIMUM 2\"/>

**STANDARDS**  
ALL PLANT MATERIAL SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE "USA STANDARD FOR NURSERY STOCK", LATEST EDITION. ALL PLANTING SHALL BE IN ACCORDANCE WITH STANDARD AMERICAN ASSOCIATION OF NURSERYMEN PROCEDURES AND SPECIFICATIONS. ANY PLANT SUBSTITUTION SHALL BE APPROVED BY LANDSCAPE ARCHITECT.

**PRUNING**  
ALL TREES TO BE PRUNED AT INSTALLATION TO REMOVE DEAD AND UNSIGHTLY LIMBS. ALL TREES ARE TO MATCH IN HEIGHT, SPREAD, AND CLEAR TRUNK AND SHALL HAVE STRAIGHT TRUNKS.

**PLANTING SOIL MIXTURE**  
PLANTING SOIL MIXTURE TO BE AS FOLLOWS: (AVAILABLE LIVING EARTH TECHNOLOGY)  
TREES, SHRUBS, AND GROUNDCOVER  
45% COMPOST  
45% COMPOSTED FINE BARK  
10% SANDY LOAM  
3 5% ORGANIC FERTILIZER  
GARDENVILLE 122 MIX AVAILABLE  
MARSHALL DISTRIBUTING (817) 654-0220

**FERTILIZER**  
ADD FERTILIZER TABLETS TO ALL TREES AND SHRUBS, ONE TABLET PER 1/2\"/>

**WARRANTY**  
ALL PLANT MATERIAL TO BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER.

**IRRIGATION**  
CONTRACTOR TO INSTALL NEW IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE FOR AFFECTED TURF, TREES AND BED AREAS. INSTALL PER PLAN AND CITY OF ADDISON IRRIGATION SPECIFICATIONS. THE CONTRACTOR SHALL VISIT SITE TO DETERMINE REQUIREMENTS PRIOR TO BID.

**SANDY LOAM**  
SANDY LOAM SHALL BE NATURAL, FERTILE, FRIABLE SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE PRODUCTIVE SOILS IN THE VICINITY. IT SHALL NOT BE EXCESSIVELY ACID OR ALKALINE OR CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE WITHOUT ADMIXTURE OF SUBSOIL AND SHALL CONTAIN A MINIMUM OF LUMPS, STONE, STUMPS, ROOTS OF SIMILAR SUBSTANCES ONE INCH OR MORE IN DIAMETER. LOAM SHALL BE FREE FROM WEEDS AND OTHER NOXIOUS MATERIALS. LOAM SHALL NOT BE STRIPPED, COLLECTED OR DEPOSITED WHILE WET.

**STAKES, GUYING**  
ALL TREES ARE TO BE STAKED AND GUYED THROUGH THE ONE YEAR WARRANTY AT WHICH TIME THE OWNER SHALL DETERMINE IF REMOVAL IS NECESSARY (REFER TO PLANTING DETAILS).

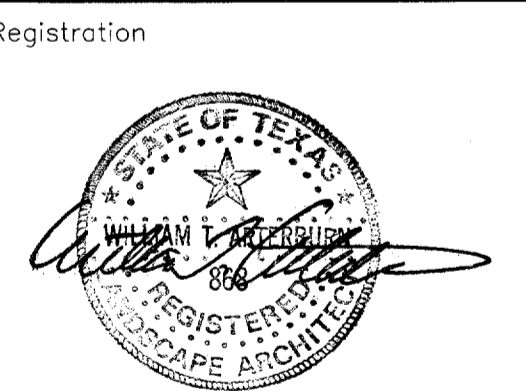
**PLANT LIST**

PLANT	PLANT QUANTITY	COMMON NAME BOTANICAL NAME	SIZE	HEIGHT	SPREAD	COMMENTS
<b>LARGE TREES- INSTALL PER DETAIL PL-1, A &amp; B</b>						
127		RED OAK QUERCUS SHUMARDII	4\"/>			
128		FOSTER'S HOLLY ILEX ATTENUATA FOSTERI	100 GAL.	12'	4-5'	SINGLE TRUNK STRONG CENTRAL LEADER. FULL WELL BRANCHED TO GROUND. MATCHING 4 CONTAINER GROWN. MESA/CITY OF ADDISON TO APPROVE SOURCE & TAG. APPROVED SOURCES: MARION GARDENS, AMMD TREE FARMS, SKINNERS OR APPROVED EQUAL.
<b>GROUNDCOVER- INSTALL PER L-2, C</b>						
2800		ASIAN JASMINE TRACHELOSPERMUM ASIATICUM	4\"/>			
		BERMUDA SOG CYNODON DACTYLON 'TEX TURF 10'				REFER TO SPECIFICATIONS & PLANS PER LOCATION. MESA/CITY OF ADDISON TO APPROVE SOURCE & SAMPLES. SOURCE: A1 GRASS COMPANY OR APPROVED EQUAL.

- SOURCES:**
- MARION GARDENS  
619 N. STATE ROAD 50  
GROVELAND, FL 34756  
(852) 429-4151
  - AMMD TREE FARM  
HWY. 19, SOUTH  
CANTON, TX 75103  
(800) 465-5622
  - SKINNERS  
RT. 1, BOX 225  
BUNNELL, FL 32110  
(800) 741-2020
  - CHERRY LAKE TREE FARMS  
1836 CHERRY LAKE ROAD  
GROVELAND, FL 34756  
(800) 429-2171
  - INDIAN CREEK TREE FARM  
2222 PARKER ROAD  
CARROLLTON, TX 75010  
(972) 344-4846
  - PRINCETON NURSERY  
P.O. BOX 85  
ALLENTOWN, NJ 08501  
(609) 259-7671
  - A1 GRASS COMPANY  
1320 EAST 14TH STREET  
PLANO, TX  
(972) 423-8814

Revisions

No.	Date	Item
1	08/10/18	CITY REVISIONS AS LISTED IN APPENDUM NO.5



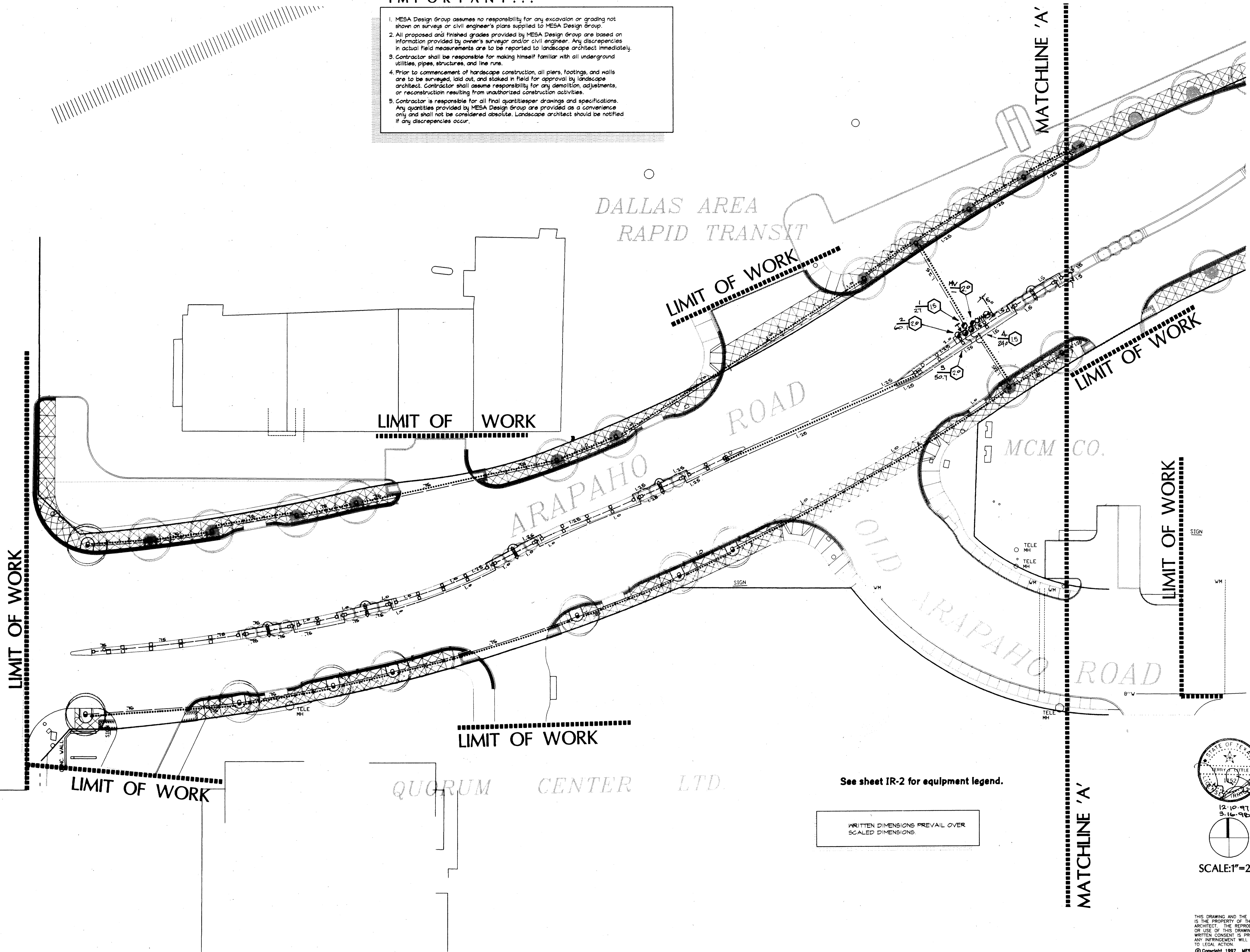
RFM  
Drawn  
WGM  
Checked  
97018  
Project No.  
12/12/97  
Date  
Sheet Title

**PLANTING  
DETAILS**

Sheet No.

**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.



Revisions

No.	Date	Item
3	16-98	TREE WELL & MED.

Registration

KDH/RFM JL  
Drawn

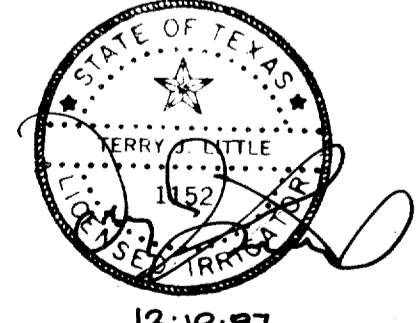
Checked  
**97018** 11/13/97  
Project No. Date

Sheet Title

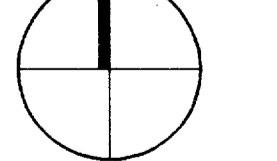
**IRRIGATION PLAN**

See sheet IR-2 for equipment legend.

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.



12-10-97  
3.16.98 REV.



SCALE: 1"=20'

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFREEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

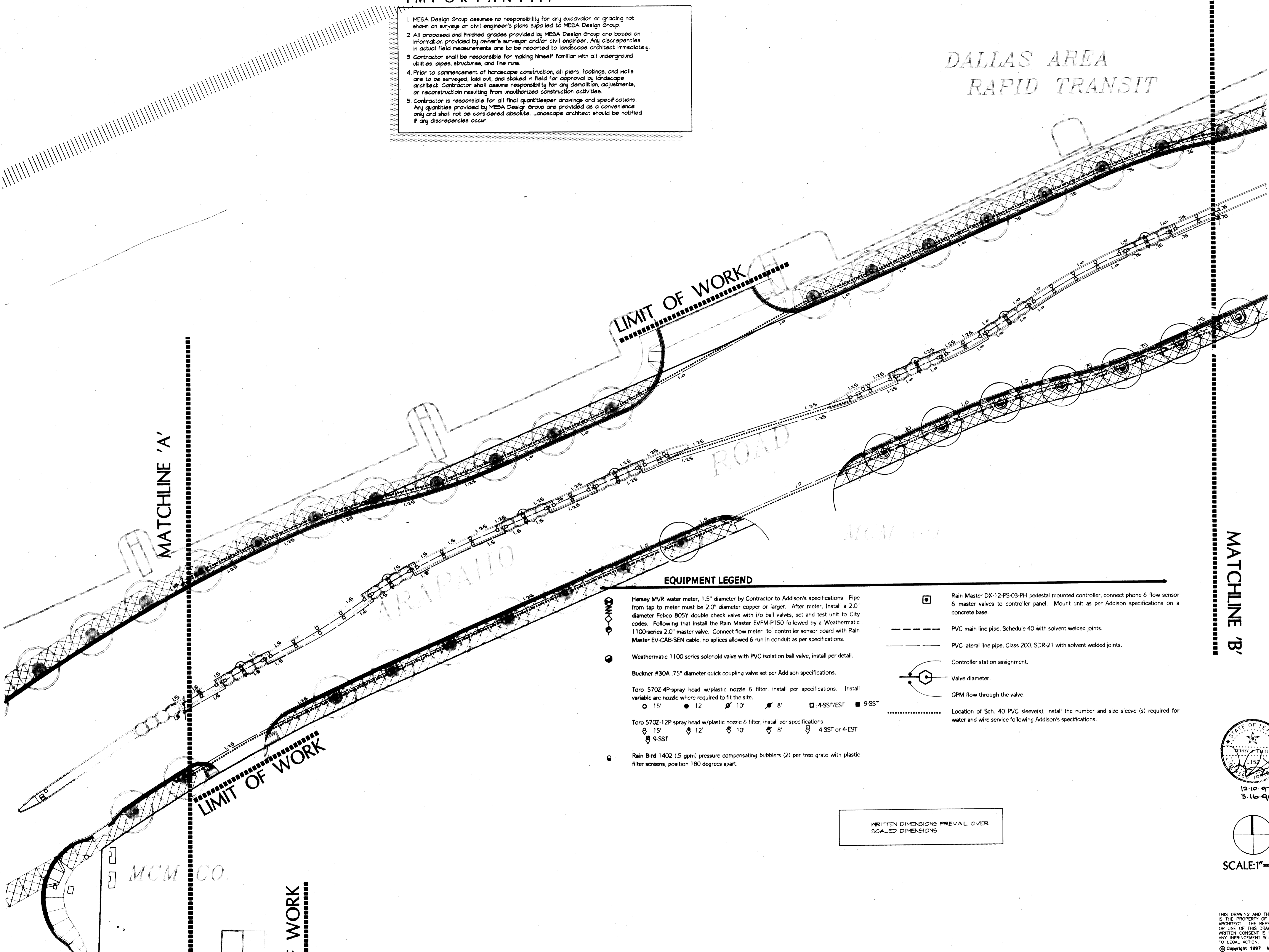
**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

DALLAS AREA  
RAPID TRANSIT

3100 McKinnon Street  
Suite 905  
Dallas, Texas 75201  
(214) 871-0568 Fax: 871-1507

ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS



LIMIT OF WORK

MATCHLINE 'A'

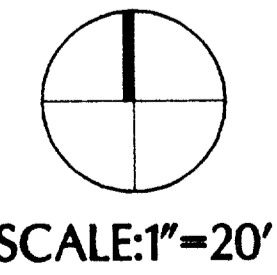
MATCHLINE 'B'

**EQUIPMENT LEGEND**

- Hersey MVR water meter, 1.5" diameter by Contractor to Addison's specifications. Pipe from tap to meter must be 2.0" diameter copper or larger. After meter, install a 2.0" diameter Febco 805Y double check valve with i/o ball valves, set and test unit to City codes. Following that install the Rain Master EVFM-P150 followed by a Weathermatic 1100-series 2.0" master valve. Connect flow meter to controller sensor board with Rain Master EV-CAB-SEN cable, no splices allowed & run in conduit as per specifications.
- Weathermatic 1100 series solenoid valve with PVC isolation ball valve, install per detail.
- Buckner #30A .75" diameter quick coupling valve set per Addison specifications.
- Toro 570Z-4P-spray head w/plastic nozzle & filter, install per specifications. Install variable arc nozzle where required to fit the site.
  - 15' 12' 10' 8'
  - 4-SST/EST 9-SST
- Toro 570Z-12P spray head w/plastic nozzle & filter, install per specifications.
  - 15' 12' 10' 8'
  - 4-SST or 4-EST 9-SST
- Rain Bird 140Z (.5 gpm) pressure compensating bubblers (2) per tree grate with plastic filter screens, position 180 degrees apart.
- Rain Master DX-12-PS-03-PH pedestal mounted controller, connect phone & flow sensor & master valves to controller panel. Mount unit as per Addison specifications on a concrete base.
- PVC main line pipe, Schedule 40 with solvent welded joints.
- PVC lateral line pipe, Class 200, SDR-21 with solvent welded joints.
- Controller station assignment.
- Valve diameter.
- GPM flow through the valve.
- Location of Sch. 40 PVC sleeve(s), install the number and size sleeve (s) required for water and wire service following Addison's specifications.

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.

12-10-97  
3-16-98 REV.



Revisions

No.	Date	Item
3-16-98		TREE WELLS & MED.

Registration

KDH/RFM TL  
Drawn

Checked  
97018 11/13/97  
Project No. Date

Sheet Title

IRRIGATION PLAN

Sheet No.

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS

MATCHLINE 'C'

MATCHLINE 'C'

TOWN OF  
ADDISON

ARAPAHO  
ROAD

CARRAMERICA LIMITED  
PARTNERSHIP

EVOLUTION DX-12-PS-03-PH  
CONTROLLER, PROVIDE 120 V.  
POWER AND PHONE CONNECTION.

LIMIT OF WORK

NOTE: RUN WIRES 1410' TO EXISTING IRRIGPOL (E)  
CONTROLLER, S.E. QUADRANT OF OLD  
ARAPAHO AND QUORUM DRIVE.

QUORUM  
DRIVE

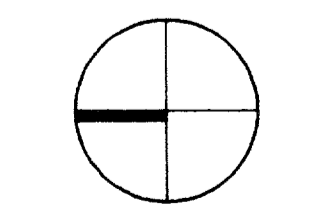
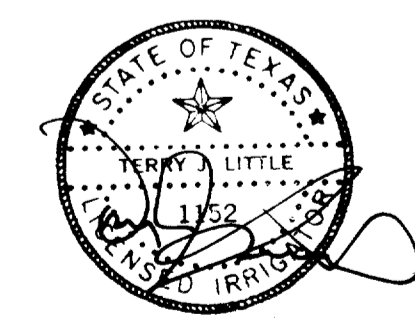
EXISTING METER, D.C. AND MAIN.

LIMIT OF WORK

See sheet IR-2 for equipment legend.

MATCHLINE 'B'

MATCHLINE 'B'



SCALE: 1"=20'

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.

THIS DRAWING AND THE DESIGN SHOWN  
IS THE PROPERTY OF THE LANDSCAPE  
ARCHITECT. THE REPRODUCTION, COPYING,  
OR USE OF THIS DRAWING WITHOUT  
WRITTEN CONSENT IS PROHIBITED AND  
ANY INFRINGEMENT WILL BE SUBJECT  
TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

Revisions

No.	Date	Item
3-16-98		Tree Wells + MGD.

Registration

Drawn **KDH TL**

Checked **97018** Date **11/13/97**

Project No. \_\_\_\_\_ Date \_\_\_\_\_

Sheet Title

**IRRIGATION PLAN**

Sheet No.

**IR-3**

ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS

Revisions

No.	Date	Item
3-16-98		Tree Wells + Hed.

Registration

Drawn KDH TL  
Checked 97018 11/13/97  
Project No. 97018 Date 11/13/97

Sheet Title

IRRIGATION  
PLAN

Sheet No.

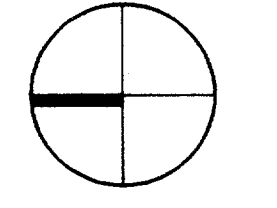
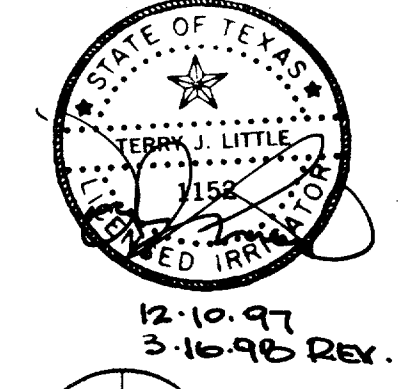
IR-4

SYSTEM NOTES

1. Field verify all dimensions prior to installing the system. If discrepancies exist notify the designer before proceeding. Copies of the planting, utilities and road construction plans shall be with the installer in the field at all times.
2. Verify a 65 psi static water pressure at each point of connection before installation is started. If lower, notify the irrigation designer for instructions as to how to proceed. Failure to do so will result in the Contractor liable for all expenses in making the system operational.
3. This layout is diagrammatic in some areas for graphic clarity. All piping, valves, etc. shall be installed with a minimum clearance of three (2) feet from the edge of the curb. Multiple valve boxes in the same area shall be installed in a straight line and evenly spaced apart. Units must be flush to finish grade and soil compacted around the box. Install nonwooden supports (bricks) under all valve boxes for stability.
4. All piping shall be flushed of all debris prior to installing heads and nozzles. Filter screens must be under each spray nozzle and caps on spray head units must be sealed.
5. Set heads perpendicular to the finish grade. Compact soil firmly around each head for stability.
6. No wire splices will be allowed between the controller and the solenoid valves. The valve "common" wire shall be spliced only at the solenoid valve and within the valve box. Flow meter wiring must be run in .75" diameter or larger gray PVC conduit as per specifications. There are two flow sensors and master valves required on this project.
7. Coordinate the installation of the system with the Landscape contractor to ensure all plant material will be irrigated in accordance with the intent of the plans and specifications. Landscape contractor must stake the outline of all planting beds before the irrigation contractor is to install any piping.

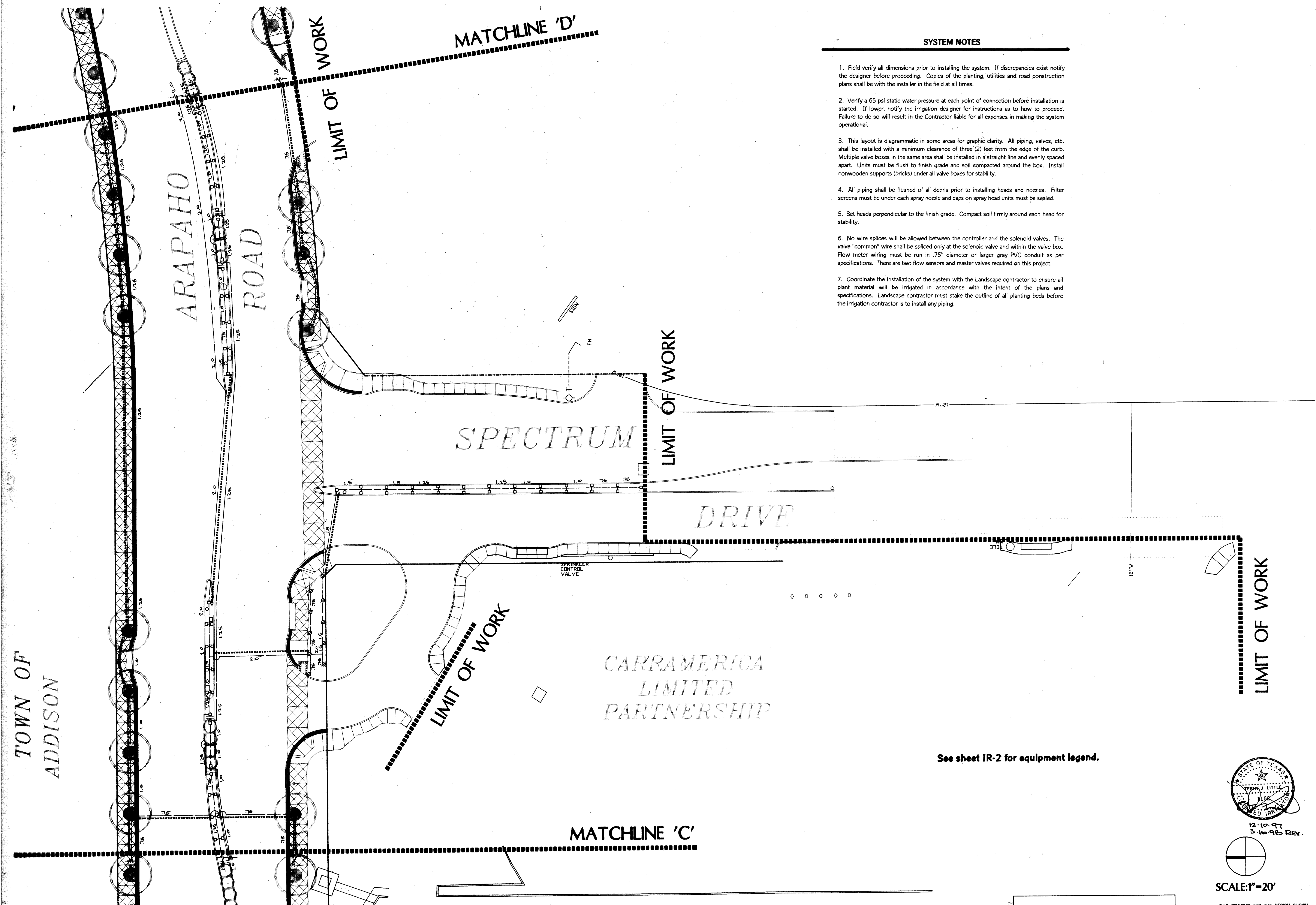
See sheet IR-2 for equipment legend.

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS



SCALE: 1"=20'

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group



TOWN OF  
ADDISON

ARAPAHO  
ROAD

MATCHLINE 'D'

SPECTRUM

DRIVE

CARRAMERICA  
LIMITED  
PARTNERSHIP

MATCHLINE 'C'

LIMIT OF WORK

LIMIT OF WORK

LIMIT OF WORK

LIMIT OF WORK

**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

3100 McKinnon Street  
Suite 905  
Dallas, Texas 75201  
(214) 871-0568 Fax: 871-1507

**ARAPAHO ROAD  
STREETSCAPE**  
CITY-OF-ADDISON, TEXAS

Revisions

No.	Date	Item
1	3-16-98	TREE WELLS + MED.

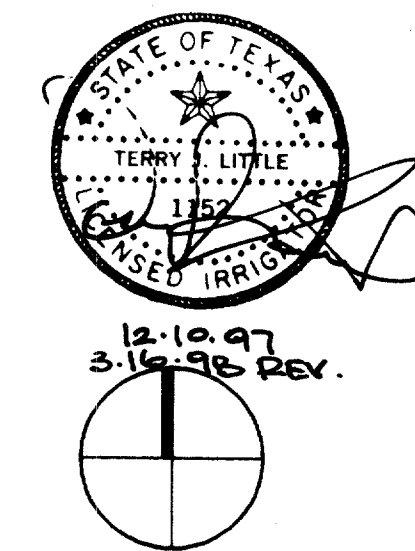
Registration

Drawn KDH/RFM TL  
Checked 97018 11/13/97  
Project No.   Date    
Sheet Title  

**IRRIGATION  
PLAN**

Sheet No.

**IR-5**

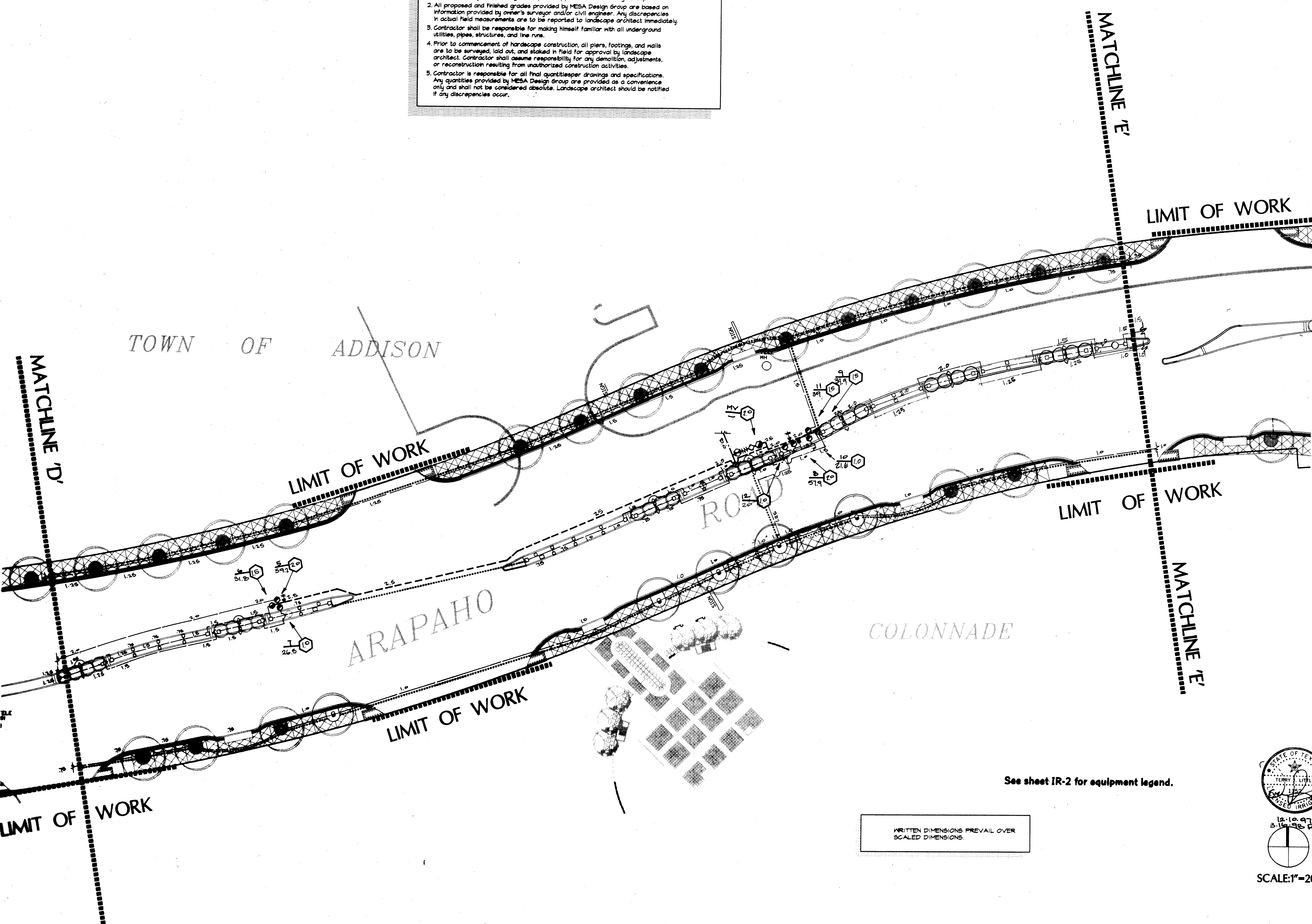


SCALE: 1" = 20'

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

See sheet IR-2 for equipment legend.

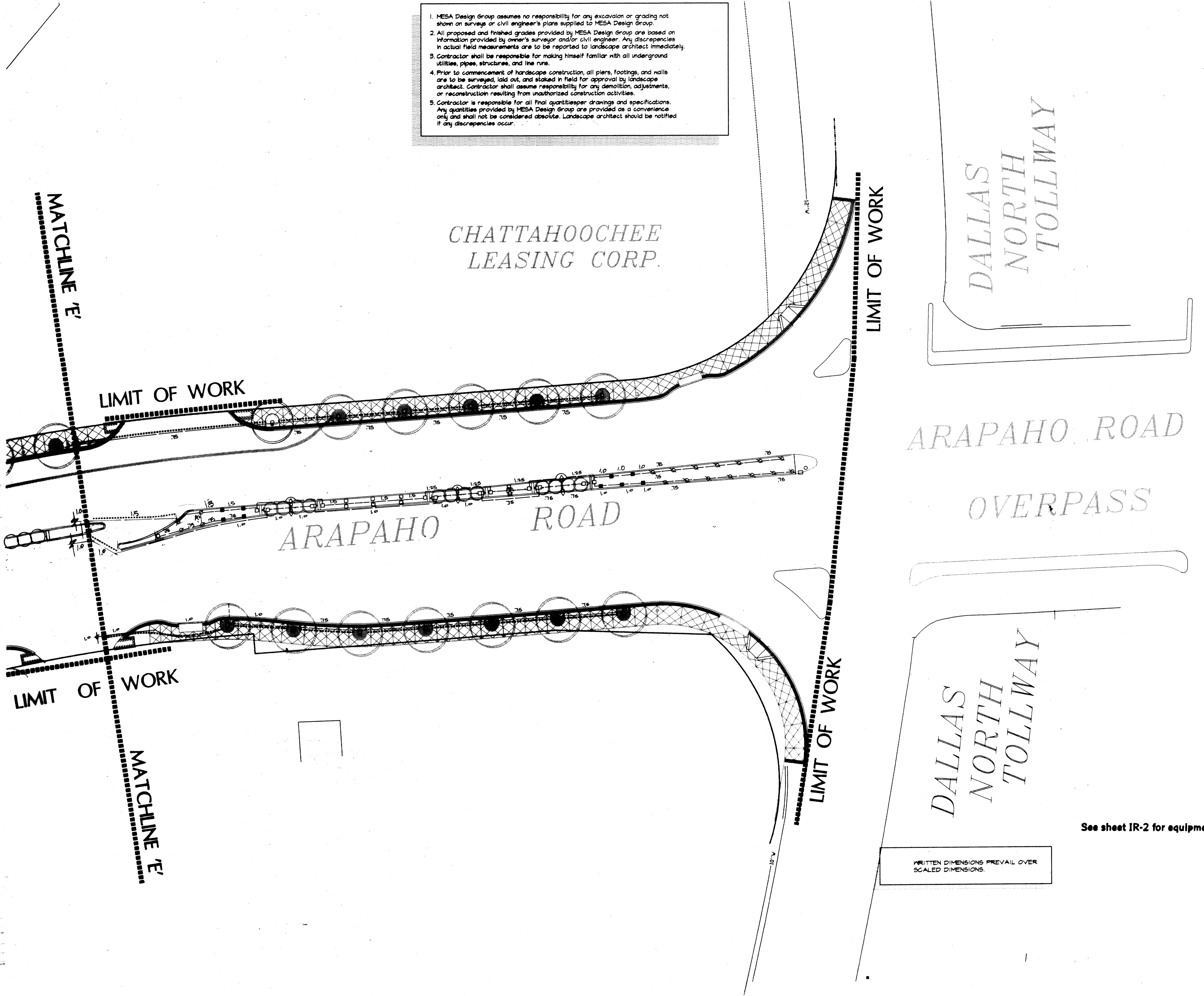
WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.





**IMPORTANT!!!**

- MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
- All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
- Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
- Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
- Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.



CHATTAHOOCHEE  
LEASING CORP.

DALLAS  
NORTH  
TOLLWAY

ARAPAHO ROAD  
OVERPASS

DALLAS  
NORTH  
TOLLWAY

MATCHLINE 'E'

LIMIT OF WORK

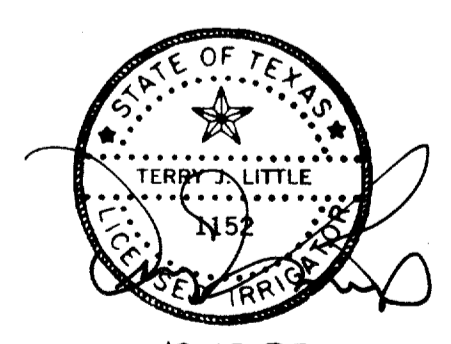
MATCHLINE 'E'

LIMIT OF WORK

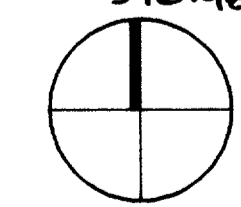
LIMIT OF WORK

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.

See sheet IR-2 for equipment legend.



12.10.97  
3.16.98 Rev.



SCALE: 1" = 20'

ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS

Revisions

No.	Date	Item
1	3-16-98	TREE WELLS + MOD.

Registration

KDH/RFM TL  
Drawn

Checked  
97018 11/13/97  
Project No. Date

Sheet Title

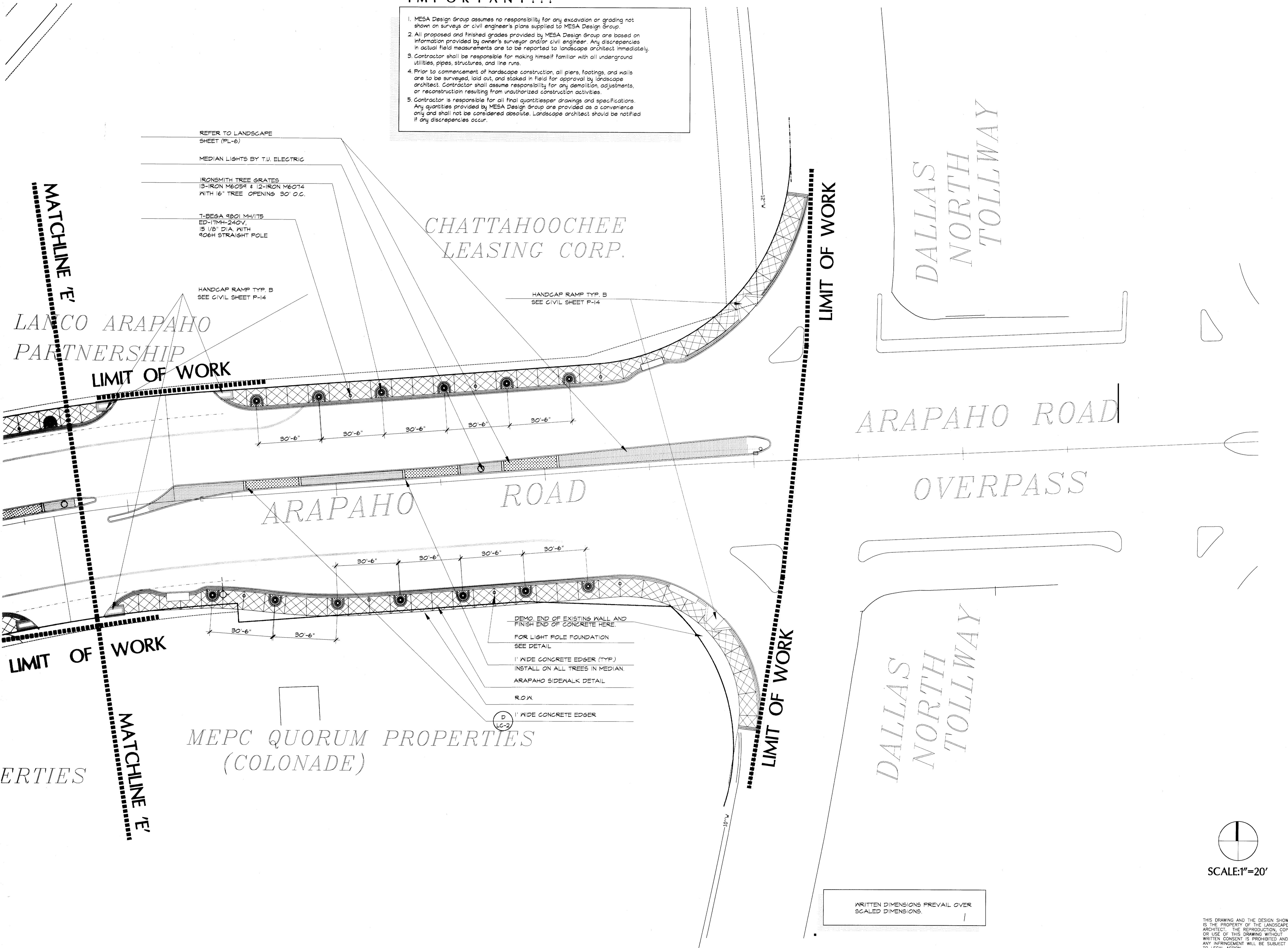
IRRIGATION  
PLAN

Sheet No.

IR-6

**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.



# MESA

DESIGN GROUP

Landscape Architecture  
Urban Design  
Land Planning

3100 McKinnon Street  
Suite 905  
Dallas, Texas 75201  
(214) 871-0568 Fax: 871-1507

ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS

Revisions

No.	Date	Item
1	03/10/98	CITY REVISIONS AS LISTED IN ADDENDUM NO. 5

Registration



KDH/RFM  
Drawn

Checked  
**97018**  
Project No.

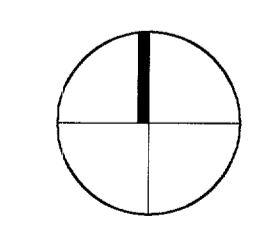
12/12/97  
Date

Sheet Title

LAYOUT  
PLAN

Sheet No.

LA-6



SCALE: 1"=20'

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

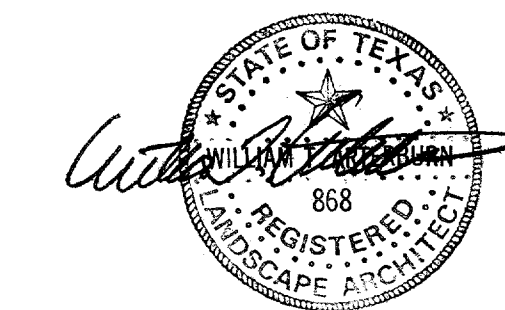
## ARAPAHO ROAD STREETSCAPE

CITY OF ADDISON, TEXAS

### Revisions

No.	Date	Item
Δ	03/10/98	CITY REVISIONS AS LISTED IN ADDENDUM NO. 5

### Registration



### RFM/ISP

Drawn: **WGM**  
Checked: **97018** Date: **12/12/97**  
Project No. \_\_\_\_\_

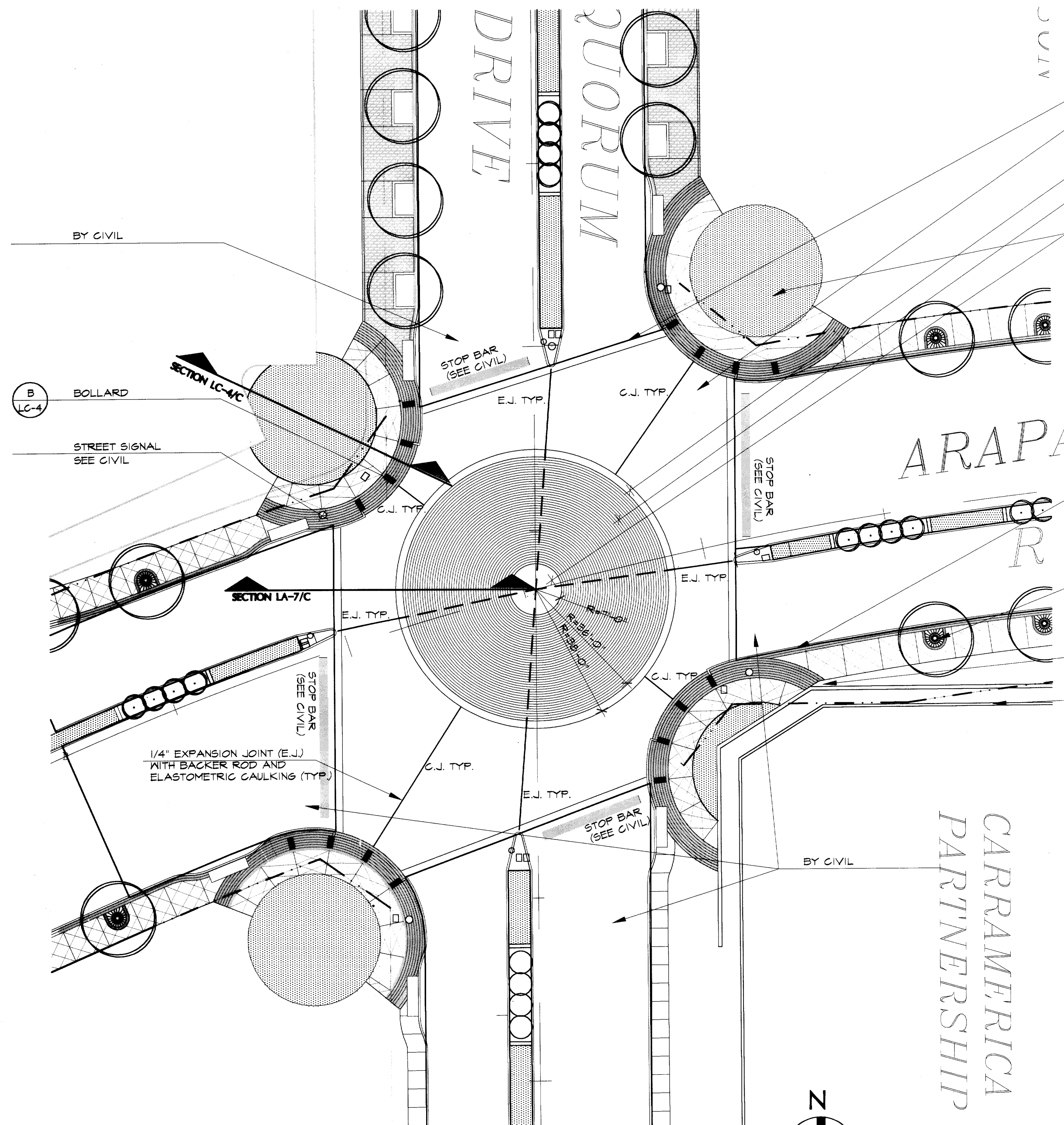
### Sheet Title

## ARAPAHO/QUORUM LAYOUT/SECTION

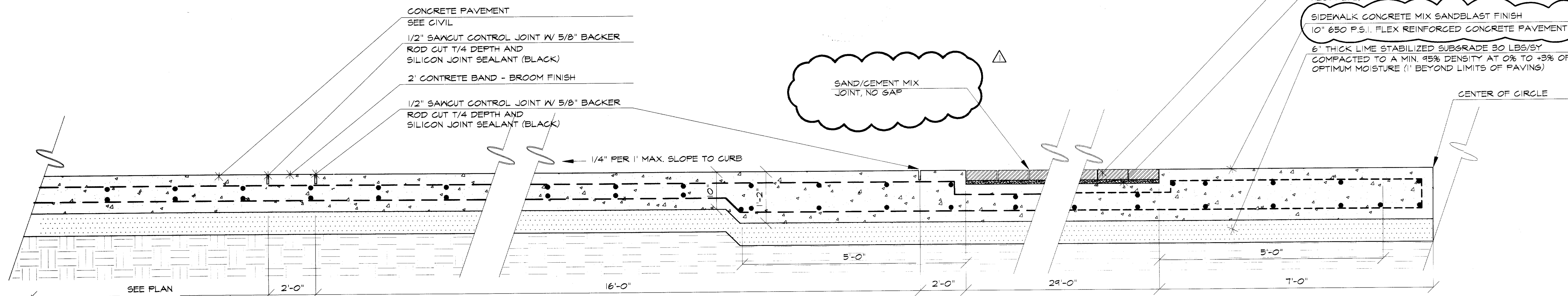
### Sheet No.

# LA-7

PROJECTS/97018/7018LA-07

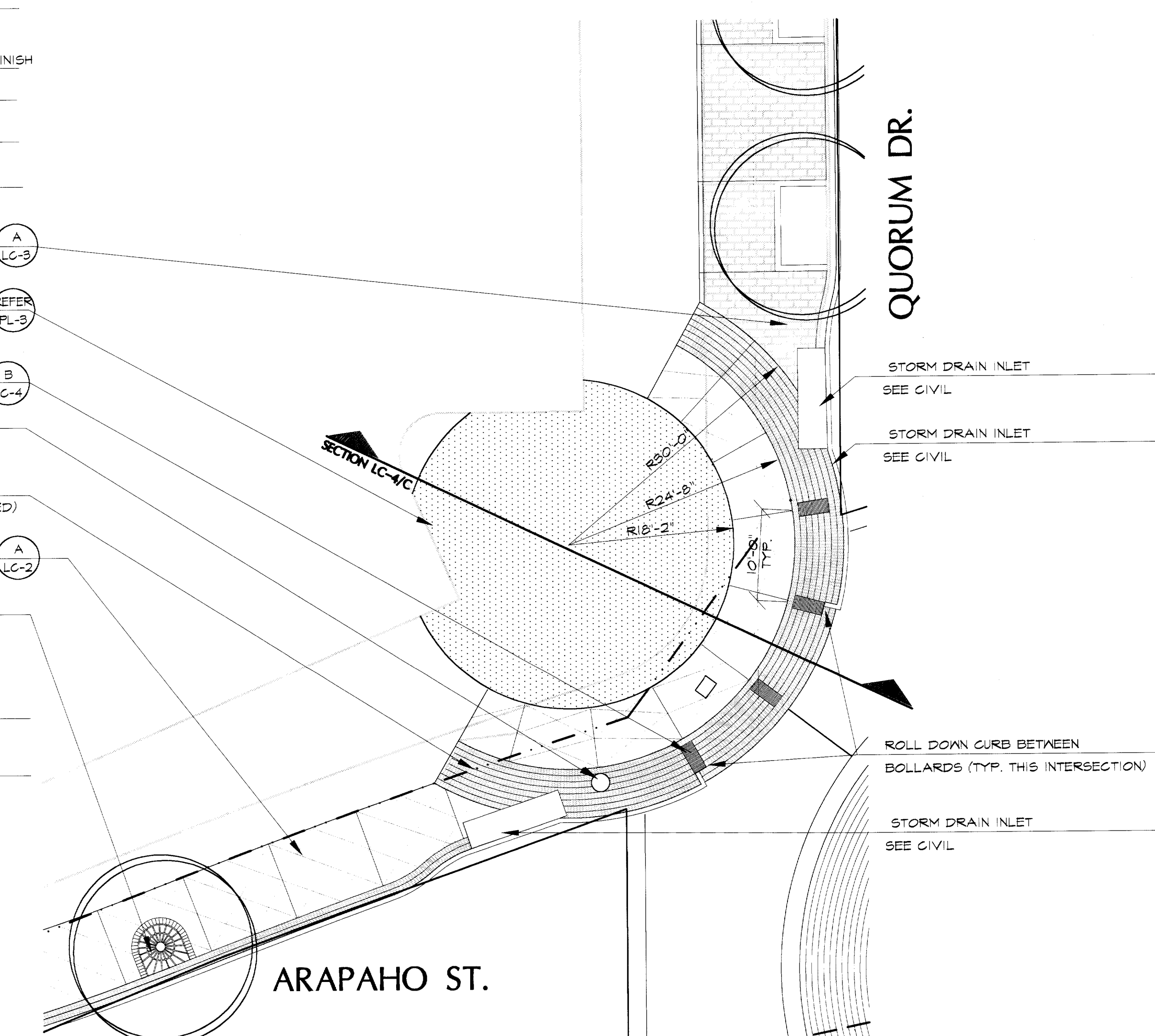


**A** ARAPAHO/QUORUM PLAN  
1"=20'-0"



**C** TYPICAL ARAPAHO/QUORUM ROAD SECTION  
3/4"=1'-0"

- 2' CONCRETE BAND - BROOM FINISH
- SIDEWALK CONCRETE MIX  
SANDBLAST FINISH
- 2' CONCRETE BAND - BROOM FINISH
- BRICK PAVER 4 X 8 X 2 3/4  
PINE HALL, RED FLASHED
- SIDEWALK CONCRETE MIX  
SANDBLAST FINISH
- REFER PL-5 INTERSECTION LANDSCAPE
- QUORUM SIDEWALK DETAIL A LG-3
- REFER TO LANDSCAPING FOR DETAILS REFER PL-3
- BOLLARD W/ LIGHT B LG-4
- STREET SIGNAL LIGHT SEE CIVIL
- BRICK PAVER GLEN GARY (AUTUMN HAZE, RED)
- ARAPAHO SIDEWALK DETAIL A LG-2
- TREE GRATE IRONSMITH (SUNRISE) MOD. # M6034, M6074, M6000/DIF A LG-1
- RETAINING WALL SEE CIVIL DRAWINGS A P-5
- EXISTING BUILDING



**B** ARAPAHO/QUORUM CORNER SCAPE  
1"=10'-0"

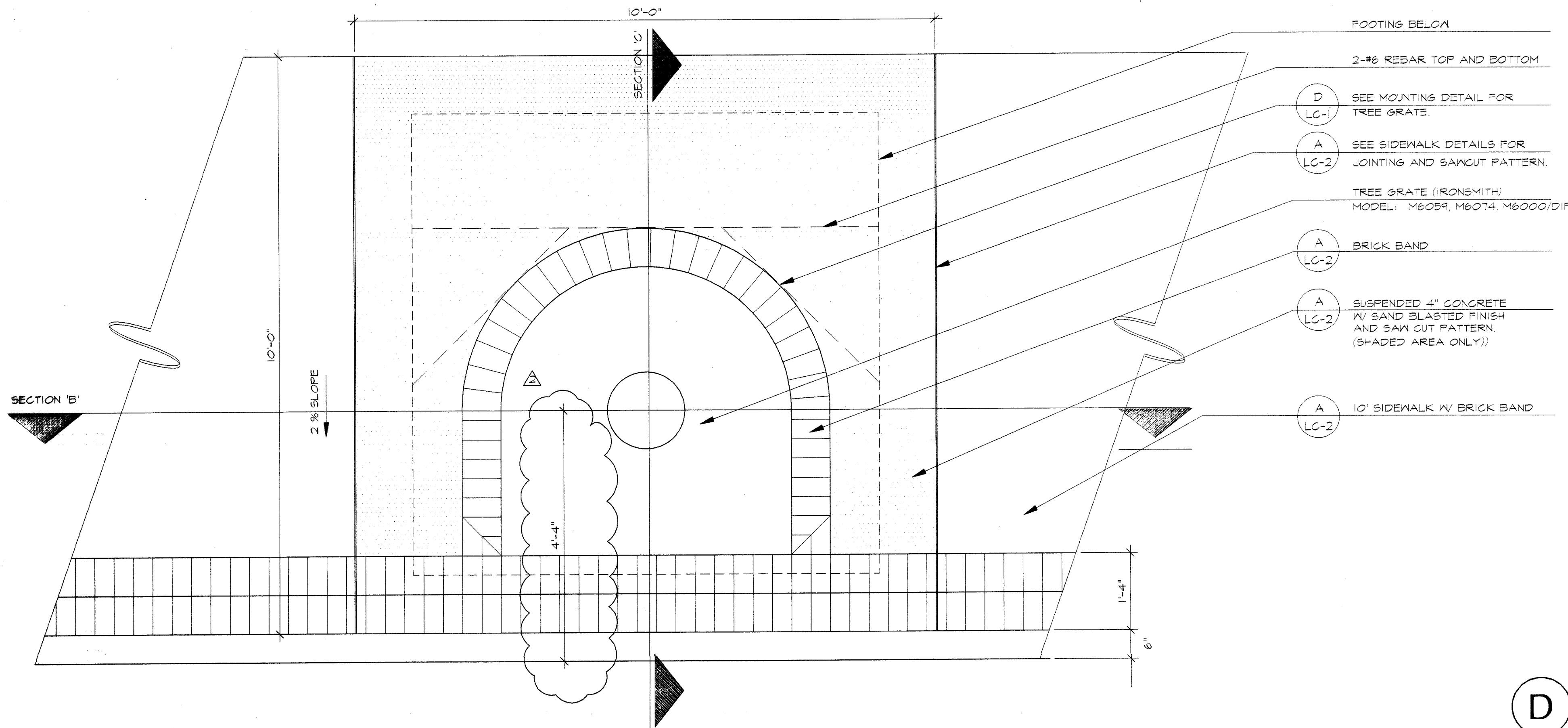
- BRICK PAVER 4 X 8 X 2 3/4  
PINE HALL RED FLASHED
- 1" BITUMINOUS SETTING BED W/ TACKCOAT (2% MOD. NEOPRENE)
- SIDEWALK CONCRETE MIX SANDBLAST FINISH  
10" 650 P.S.I., FLEX REINFORCED CONCRETE PAVEMENT
- 6" THICK LIME STABILIZED SUBGRADE 30 LBS/SY  
COMPACTED TO A MIN. 95% DENSITY AT 0% TO +3% OF OPTIMUM MOISTURE (1' BEYOND LIMITS OF PAVING)

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.

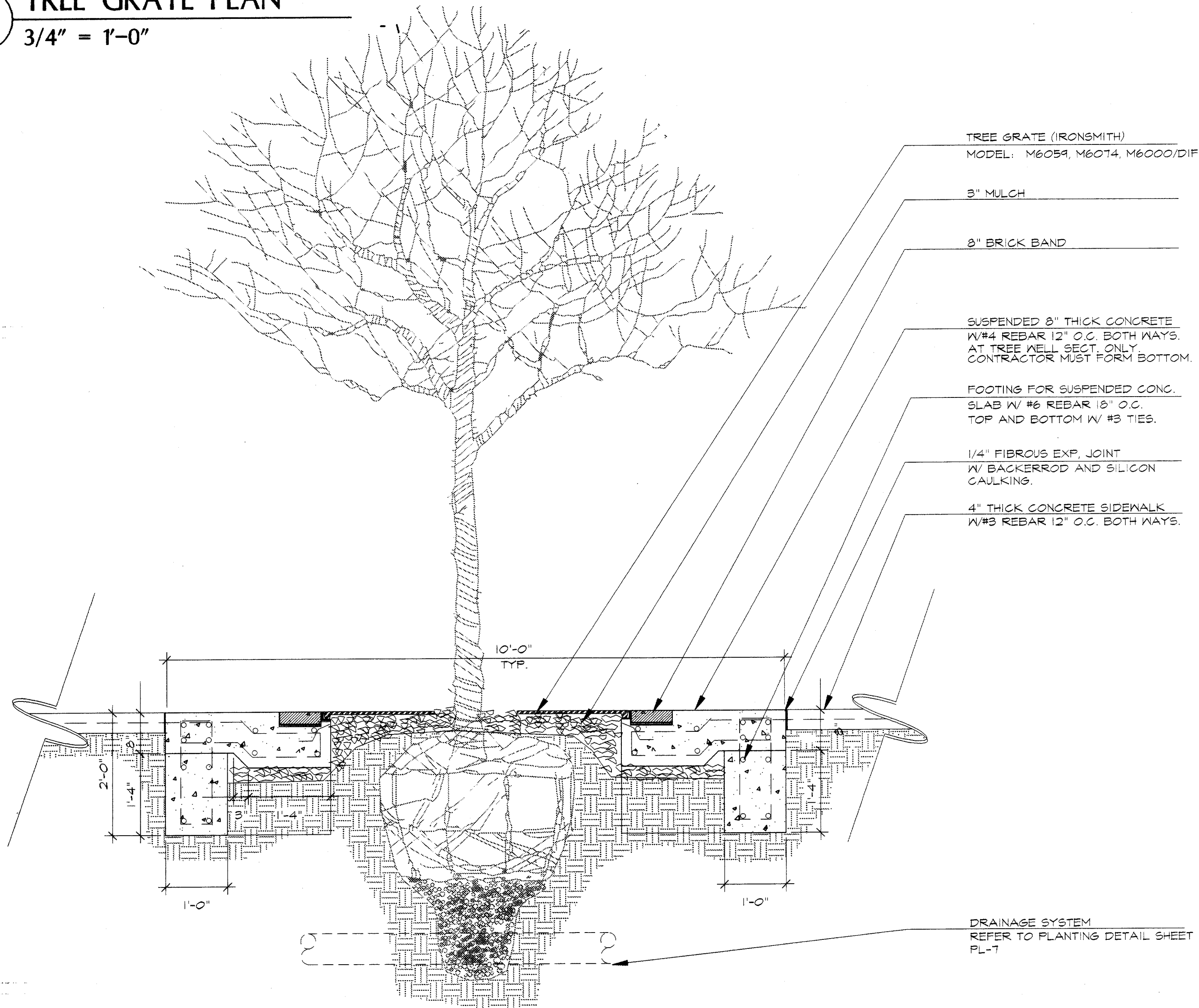
**IMPORTANT!!!**

- MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
- All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
- Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
- Prior to commencement of landscape construction, all plans, listings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
- Contractor is responsible for all final quantities drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

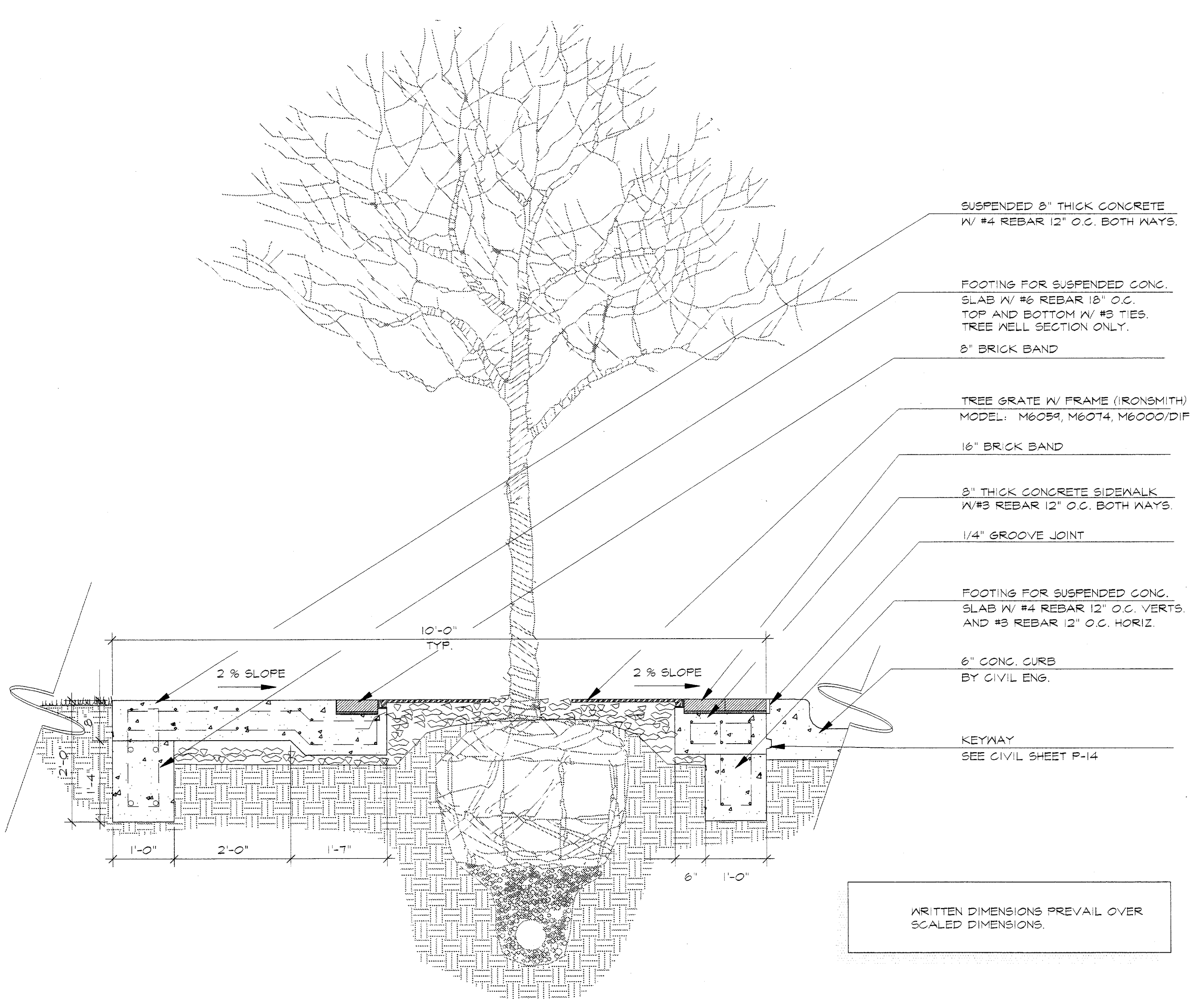
THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFREEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group



**A** TREE GRATE PLAN  
3/4" = 1'-0"



**B** TREE GRATE SECTION  
3/4" = 1'-0"

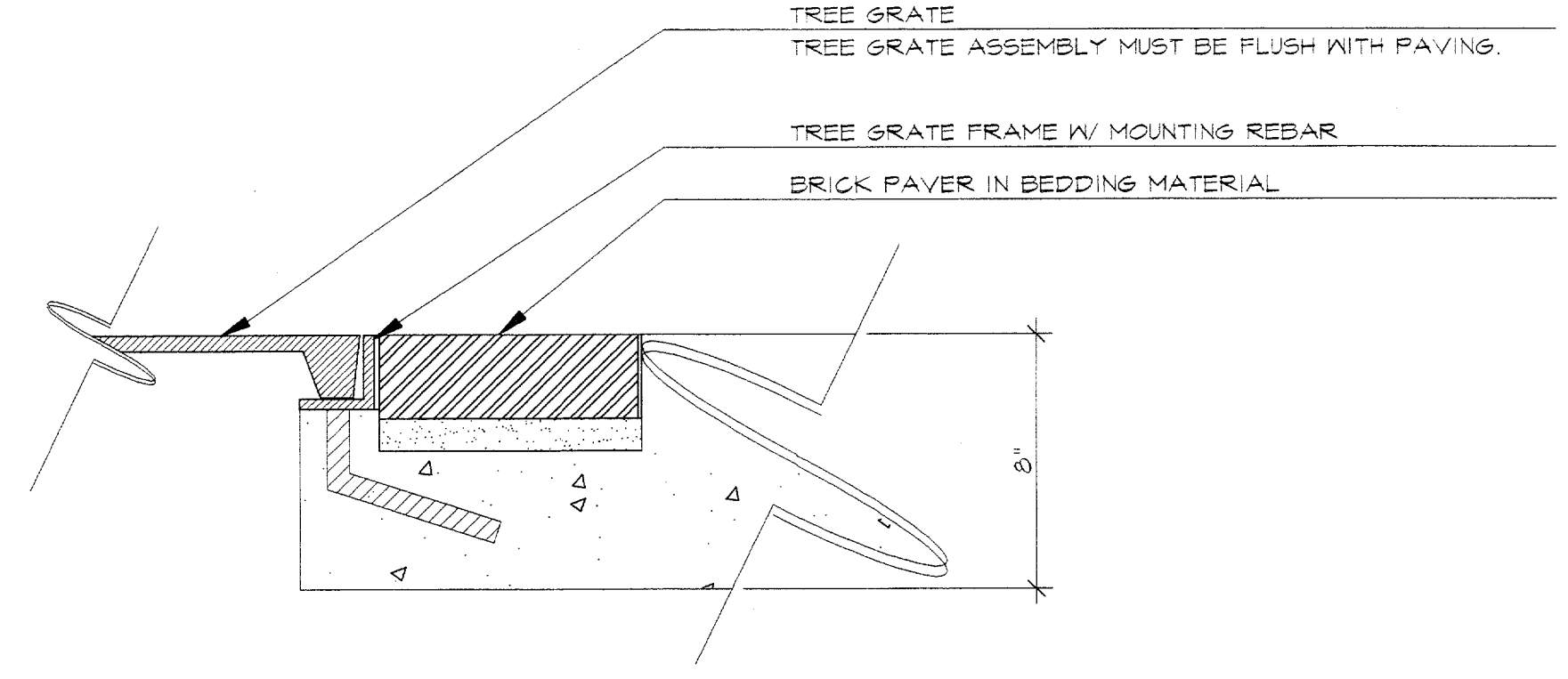


**C** TREE GRATE SECTION  
3/4" = 1'-0"

**IMPORTANT!!!**

- MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
- All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
- Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
- Prior to commencement of hardscape construction, all plans, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
- Contractor is responsible for all final quantities drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

**D** TREE GRATE MOUNTING DETAIL  
3" = 1'-0" CONTRACTOR TO DISCUSS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.



Revisions

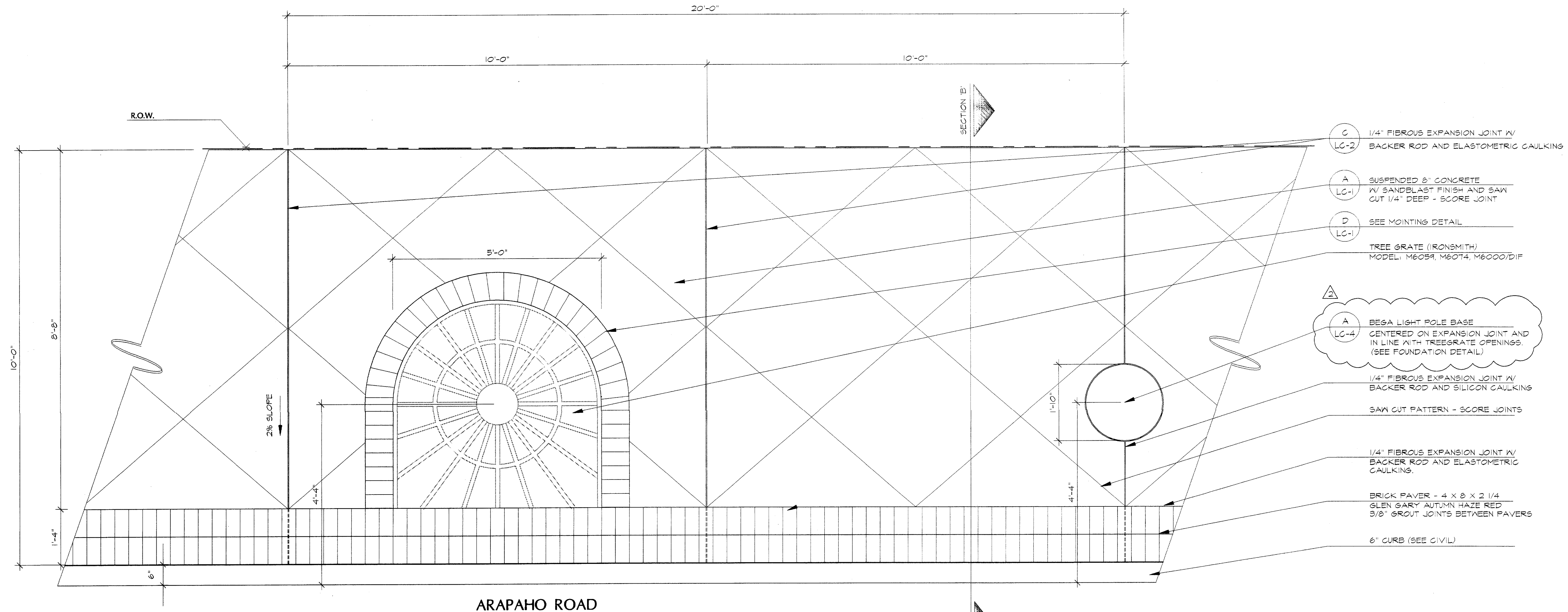
No.	Date	Item
1	05/12/98	CORRECTED DIMENSION ON TREE GRATE

Registration

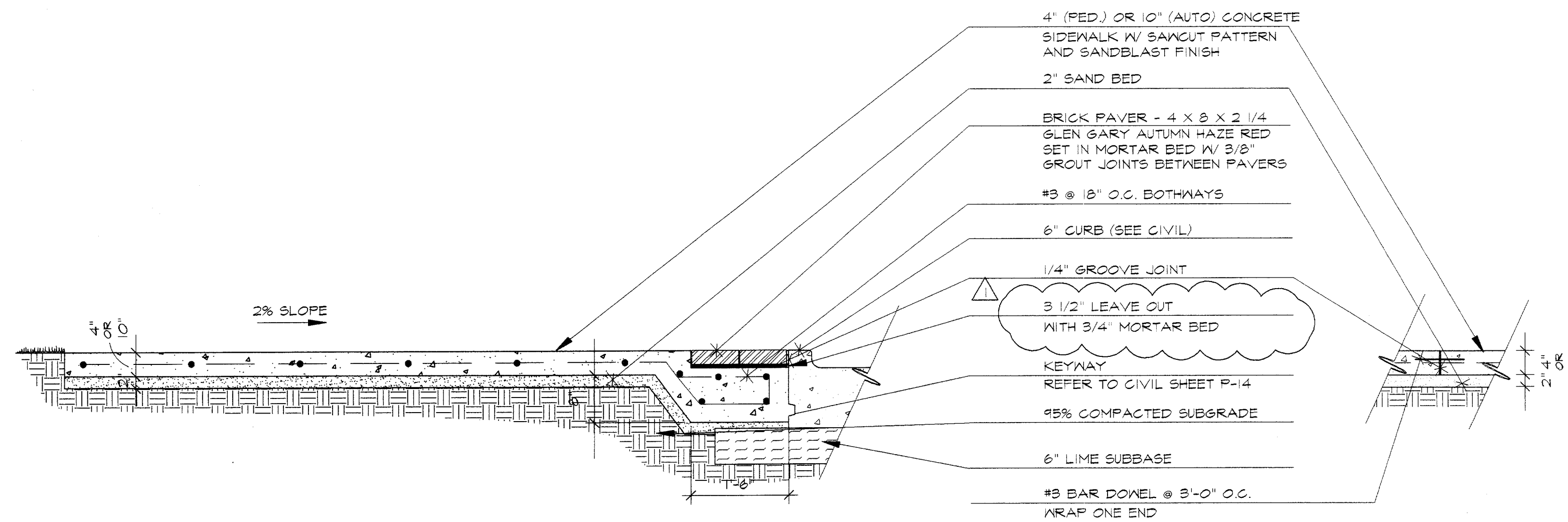
RFM  
Drawn  
WGM  
Checked  
97018  
Project No.  
12/12/97  
Date

Sheet Title

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group



**A** TYPICAL ARAPAHO SIDEWALK PLAN DETAIL  
3/4" = 1'-0"



**B** TYPICAL ARAPAHO SIDEWALK SECTION  
3/4" = 1'-0"

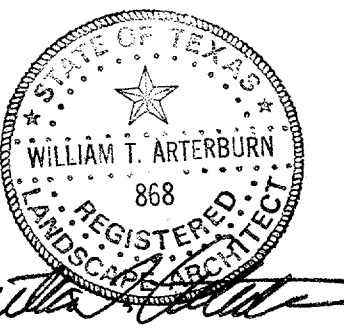
**C** TYPICAL SIDEWALK EXPANSION JOINT  
3/4" = 1'-0"

- C LC-2 1/4" FIBROUS EXPANSION JOINT W/ BACKER ROD AND ELASTOMETRIC CAULKING
- A LC-1 SUSPENDED 8" CONCRETE W/ SANDBLAST FINISH AND SAW CUT 1/4" DEEP - SCORE JOINT
- D LC-1 SEE MOUNTING DETAIL
- △ TREE GRATE (IRONSMTIH) MODEL: M6059, M6074, M6000/DIF
- A LC-4 BEGA LIGHT POLE BASE CENTERED ON EXPANSION JOINT AND IN LINE WITH TREEGRATE OPENINGS. (SEE FOUNDATION DETAIL)
- 1/4" FIBROUS EXPANSION JOINT W/ BACKER ROD AND SILICON CAULKING
- SAW CUT PATTERN - SCORE JOINTS
- 1/4" FIBROUS EXPANSION JOINT W/ BACKER ROD AND ELASTOMETRIC CAULKING.
- BRICK PAVER - 4 X 8 X 2 1/4 GLEN GARY AUTUMN HAZE RED 3/8" GROUT JOINTS BETWEEN PAVERS
- 6" CURB (SEE CIVIL)

Revisions

No.	Date	Item
△ 03/10/98		CITY REVISIONS AS LISTED IN APPENDUM NO. 5.
△ 05/18/98		ADDED LOCATION OF BEGA LIGHT BASE

Registration



RFM/ISP

Drawn

WGM

Checked

97018

05/18/98

Project No.

Date

Sheet Title

ARAPAHO SIDEWALK  
PLAN/SECTIONS

Sheet No.

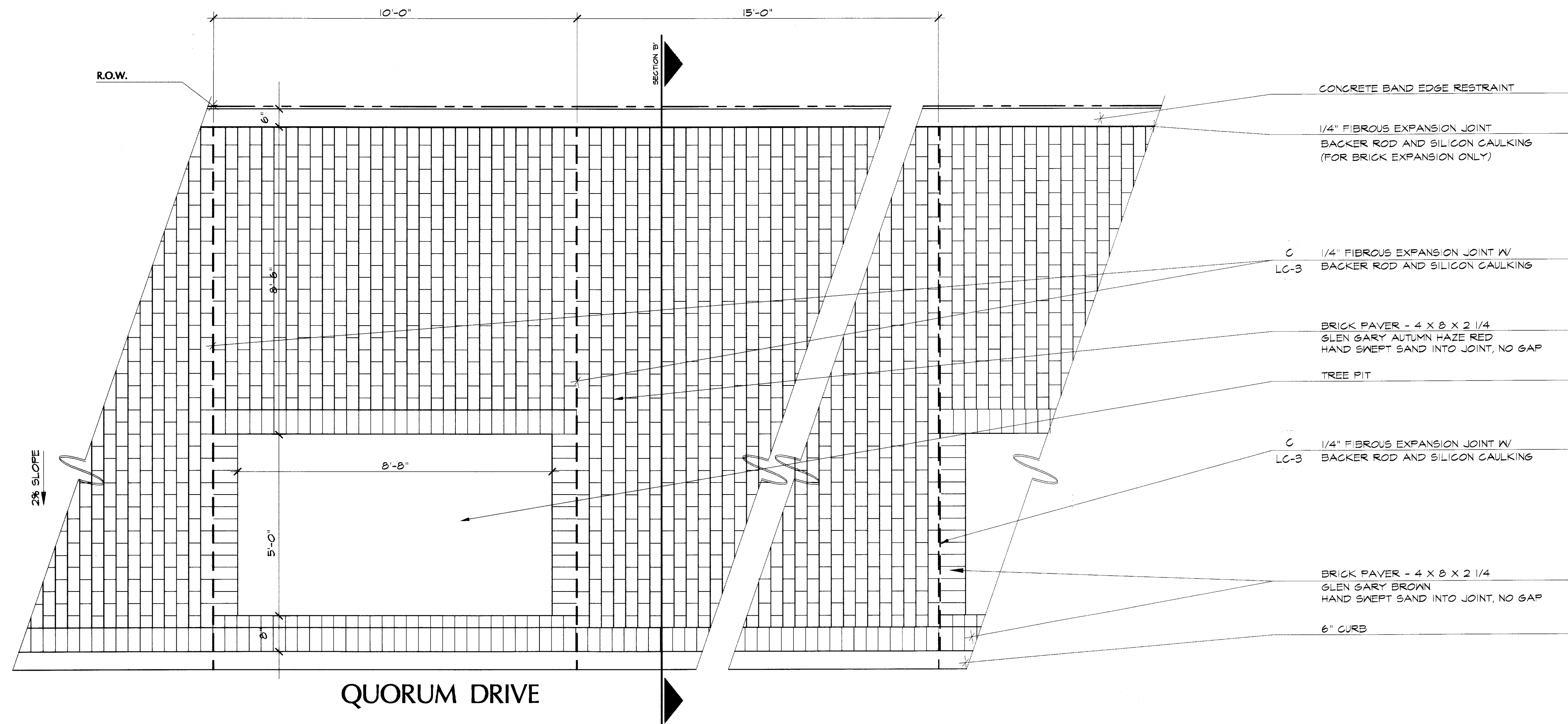
LC-2

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.

**IMPORTANT!!!**

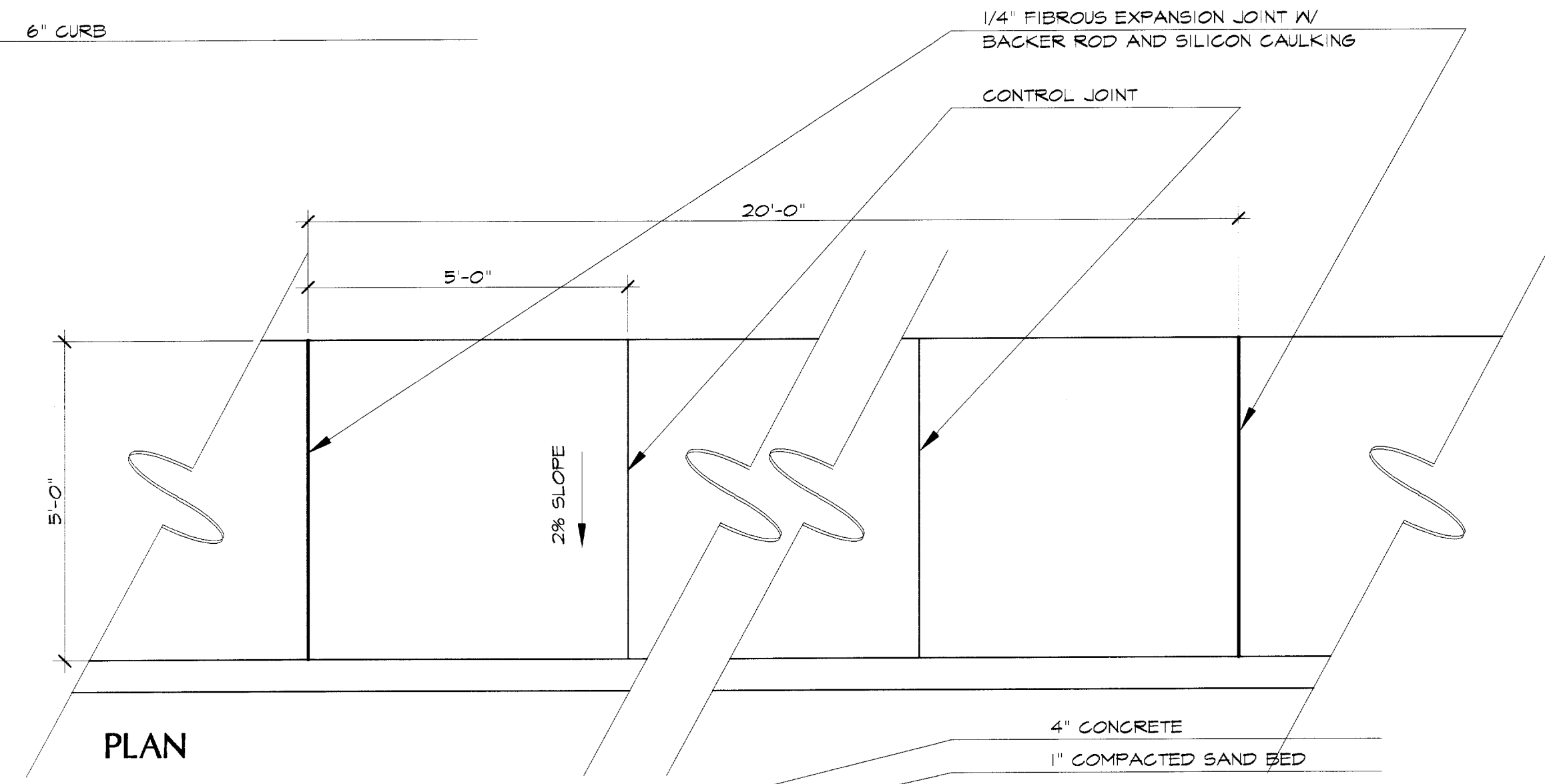
- MESA Design Group assumes no responsibility for any excavation or grading not shown on survey or civil engineer's plans supplied to MESA Design Group.
- All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
- Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
- Prior to commencement of landscape construction, all pins, footings, and nails are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
- Contractor is responsible for all final quantities, drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

**ARAPAHO ROAD  
STREETSCAPE**  
CITY OF ADDISON, TEXAS



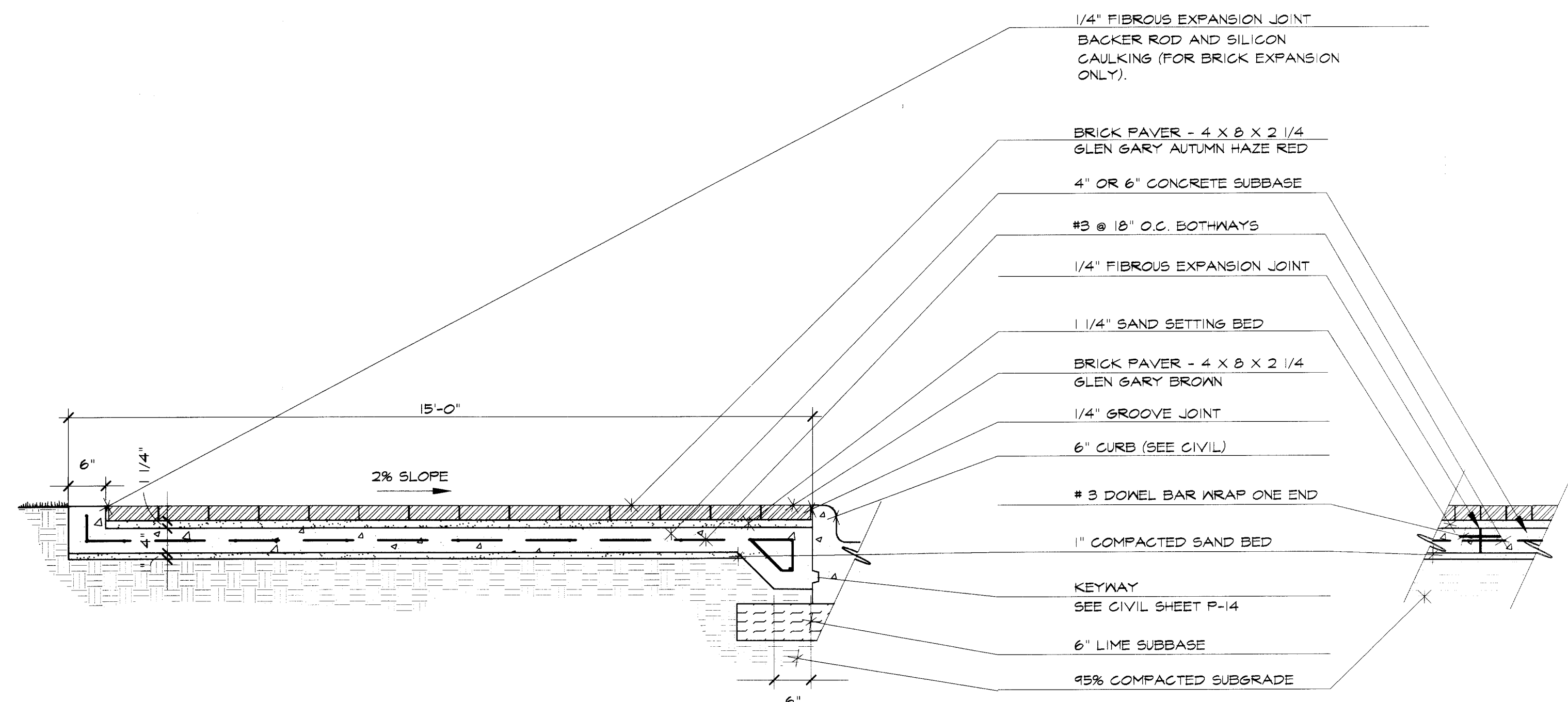
- CONCRETE BAND EDGE RESTRAINT
- 1/4" FIBROUS EXPANSION JOINT  
BACKER ROD AND SILICON CAULKING  
(FOR BRICK EXPANSION ONLY)
- C  
LC-3 1/4" FIBROUS EXPANSION JOINT W/  
BACKER ROD AND SILICON CAULKING
- BRICK PAVER - 4 X 8 X 2 1/4  
GLEN GARY AUTUMN HAZE RED  
HAND SWEPT SAND INTO JOINT, NO GAP
- TREE PIT
- C  
LC-3 1/4" FIBROUS EXPANSION JOINT W/  
BACKER ROD AND SILICON CAULKING
- BRICK PAVER - 4 X 8 X 2 1/4  
GLEN GARY BROWN  
HAND SWEPT SAND INTO JOINT, NO GAP
- 6" CURB

**A** TYPICAL QUORUM SIDEWALK PLAN DETAIL  
1/2" = 1'-0" (NORTH OF ARAPAHO DRIVE)



- 1/4" FIBROUS EXPANSION JOINT W/  
BACKER ROD AND SILICON CAULKING
- CONTROL JOINT
- 4" CONCRETE
- 1" COMPACTED SAND BED
- 6" CURB (SEE CIVIL)
- 1/4" FIBROUS EXPANSION JOINT  
W/ BACKER ROD AND  
SILICON CAULKING
- #3 @ 18" O.C. BOTHWAYS
- KEYWAY  
SEE CIVIL SHEET P-14
- 6" LIME SUBBASE
- 95% COMPACTED SUBGRADE

**D** TYPICAL QUORUM SIDEWALK  
1/2" = 1'-0" (SOUTH OF ARAPAHO DRIVE)



- 1/4" FIBROUS EXPANSION JOINT  
BACKER ROD AND SILICON  
CAULKING (FOR BRICK EXPANSION  
ONLY).
- BRICK PAVER - 4 X 8 X 2 1/4  
GLEN GARY AUTUMN HAZE RED
- 4" OR 6" CONCRETE SUBBASE
- #3 @ 18" O.C. BOTHWAYS
- 1/4" FIBROUS EXPANSION JOINT
- 1 1/4" SAND SETTING BED
- BRICK PAVER - 4 X 8 X 2 1/4  
GLEN GARY BROWN
- 1/4" GROOVE JOINT
- 6" CURB (SEE CIVIL)
- # 3 DOWEL BAR WRAP ONE END
- 1" COMPACTED SAND BED
- KEYWAY  
SEE CIVIL SHEET P-14
- 6" LIME SUBBASE
- 95% COMPACTED SUBGRADE

**B** TYPICAL QUORUM SIDEWALK SECTION  
3/4" = 1'-0" (NORTH OF ARAPAHO DRIVE)

**C** TYPICAL SIDEWALK EXPANSION JOINT  
3/4" = 1'-0"

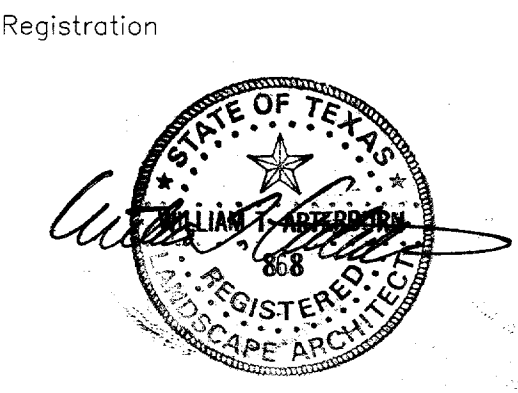
WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.

- IMPORTANT!!!**
1. MESA Design Group assumes no responsibility for any excavation or grading not shown on survey or civil engineer's plans supplied to MESA Design Group.
  2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
  3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
  4. Prior to commencement of landscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
  5. Contractor is responsible for all final quantities drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

Revisions

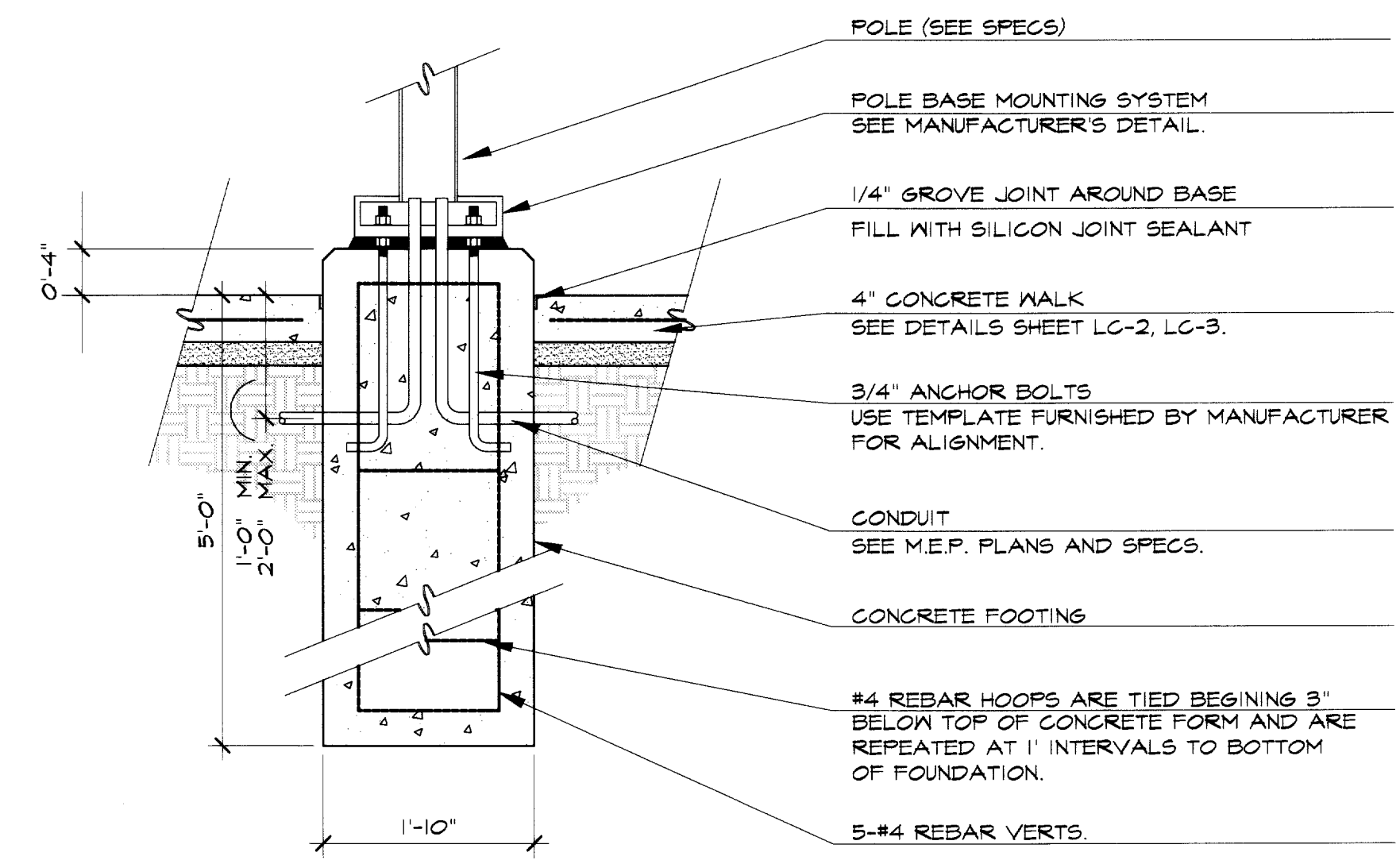
No.	Date	Item



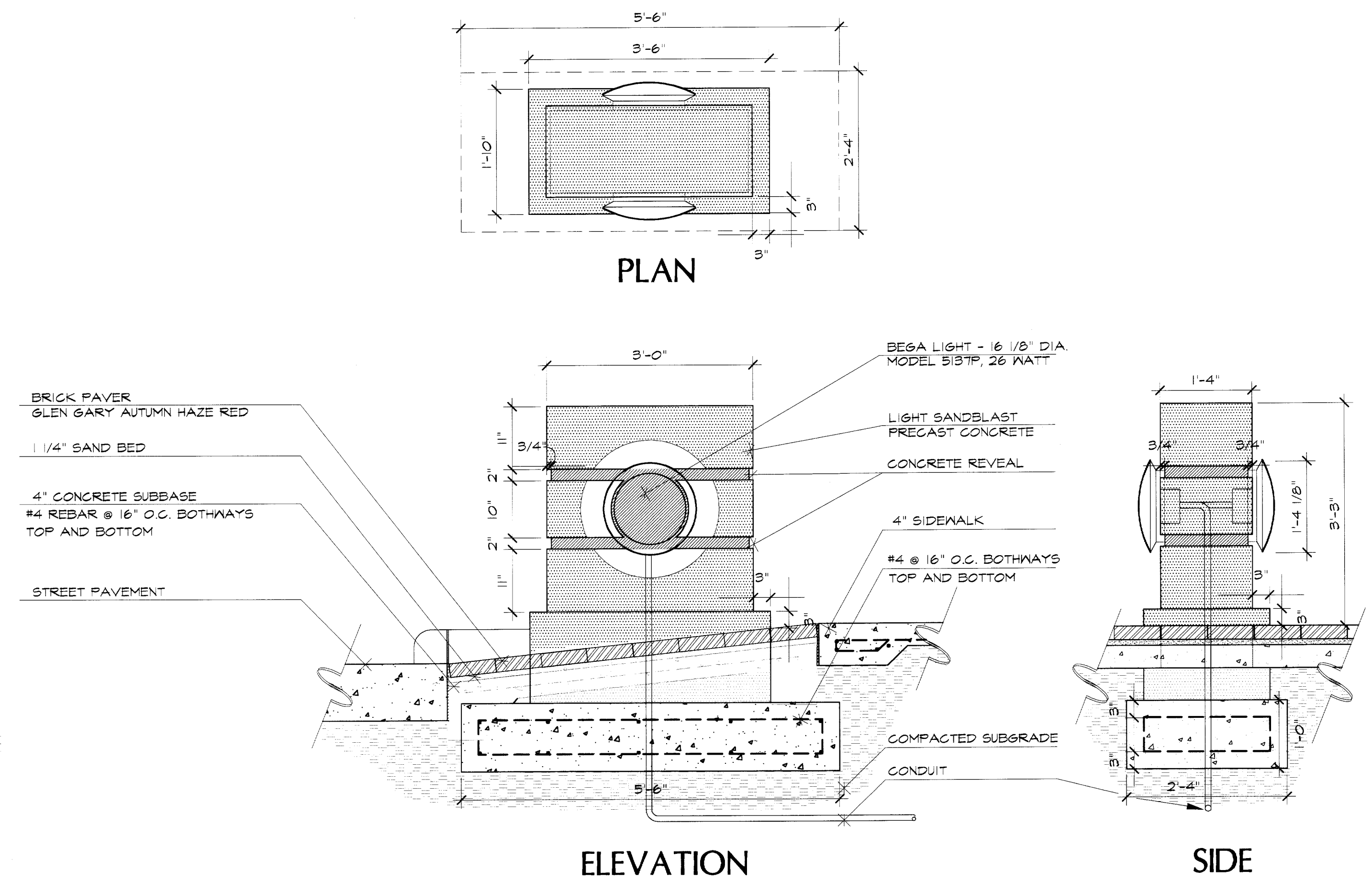
RFM/ISP  
Drawn  
WGM  
Checked  
97018 12/12/97  
Project No. Date

Sheet Title  
**QUORUM SIDEWALK  
PLAN/SECTIONS**

Sheet No.  
**LC-3**



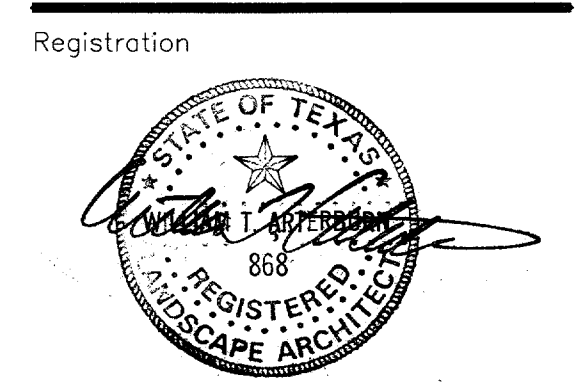
**A** STREET LIGHT FOUNDATION DETAIL  
3/4"=1'-0"



**B** CUSTOM PRE-CAST CONCRETE BOLLARD  
3/4"=1'-0" CONTRACTOR MUST PROVIDE SHOP DRAWING ON THIS ITEM.

Revisions

No.	Date	Item



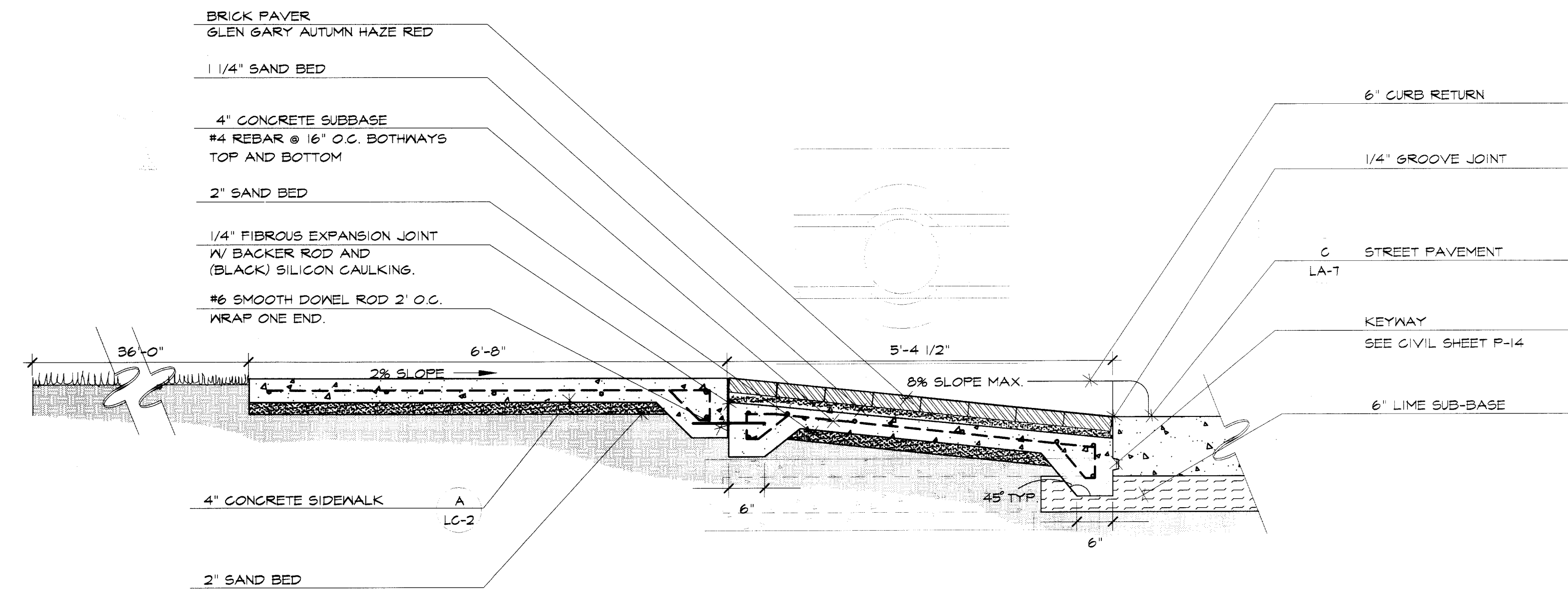
RFM/ISP  
Drawn  
**WGM**  
Checked  
**97018** **12/12/97**  
Project No. Date  
Sheet Title

LIGHT FOUNDATION/BOLLARD DETAILS

Sheet No.

**LC-4**

PROJECTS\97018\7018LC-04



**C** TYPICAL ARAPAHO/QUORUM CORNER SECTION  
3/4"=1'-0"

**IMPORTANT!!!**

- MESA Design Group assumes no responsibility for any excavation or grading not shown on survey or civil engineer's plans supplied to MESA Design Group.
- All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
- Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
- Prior to commencement of landscape construction, all plans, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unadvised construction activities.
- Contractor is responsible for all final quantities drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

WRITTEN DIMENSIONS PREVAIL OVER SCALED DIMENSIONS.

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

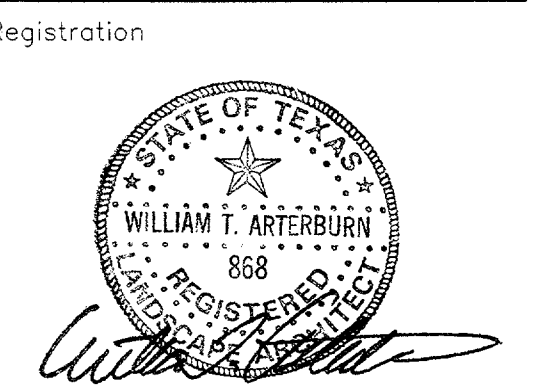
**IMPORTANT!!!**

- MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
- All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
- Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
- Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
- Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

All median and parkway planting areas shall have 6 inches of topsoil placed prior to planting. The topsoil shall be tilled into the soil below a minimum of 4 inches deep. Backfill in the medians under the proposed topsoil shall consist of friable native material free of rocks and debris. The cost of topsoil and median backfill shall be subsidiary to the contract.

Revisions

No.	Date	Item
1	03/10/98	CITY REVISIONS AS LISTED IN APPENDUM NO. 5
2	05/18/98	ADDITION OF TREE DRAINS.

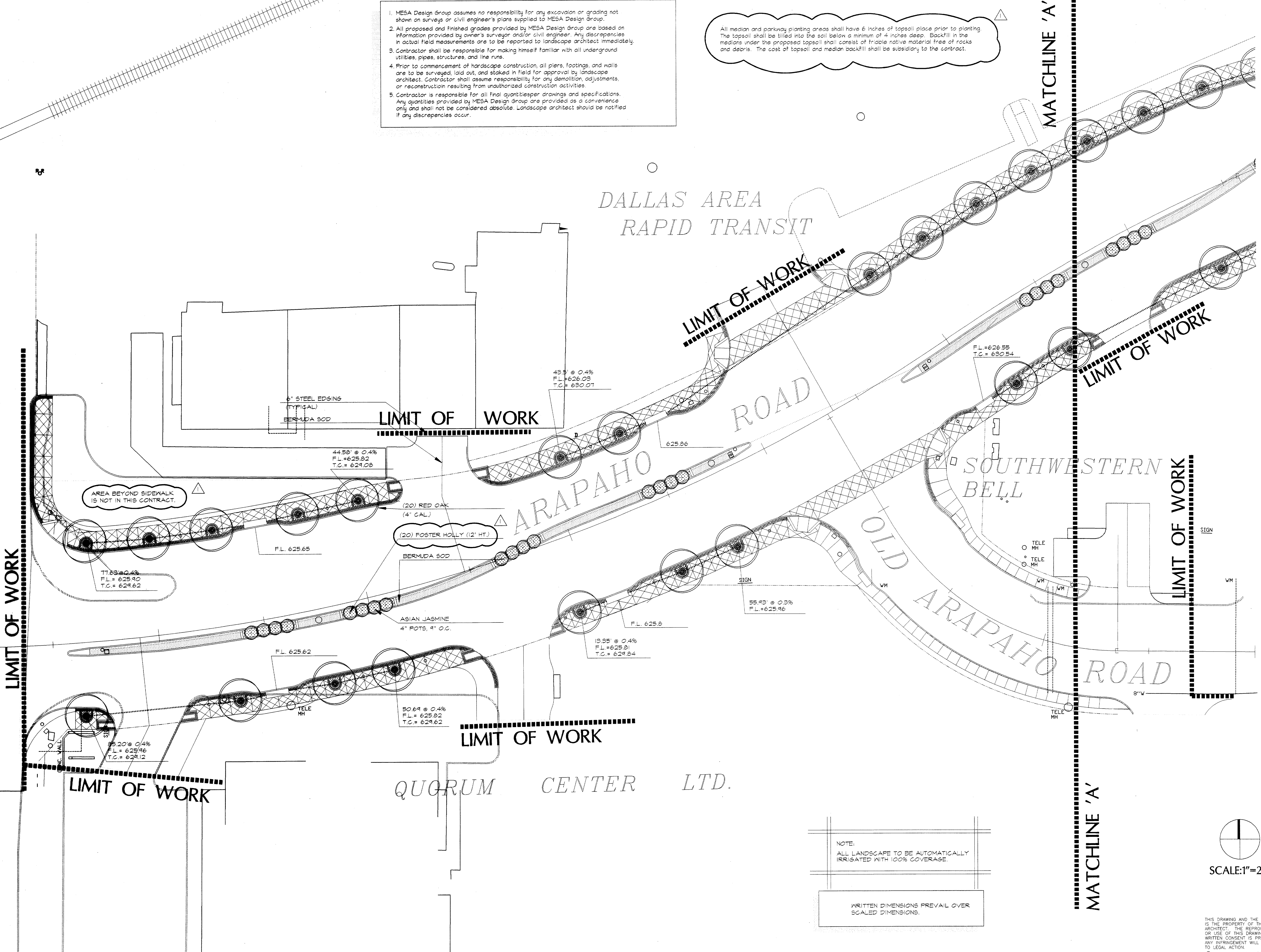


Drawn: KDH/RFM  
Checked: 97018 Date: 05/18/98  
Project No. Date

Sheet Title  
**TREWELL  
DRAINS/  
PLANTING  
PLAN**

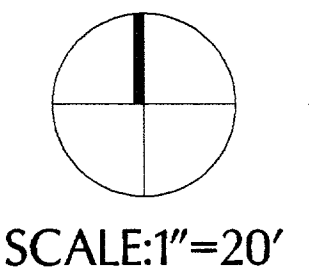
Sheet No.  
**PL-1**

DALLAS AREA  
RAPID TRANSIT



NOTE:  
ALL LANDSCAPE TO BE AUTOMATICALLY  
IRRIGATED WITH 100% COVERAGE.

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.



THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group



**IMPORTANT!!!**

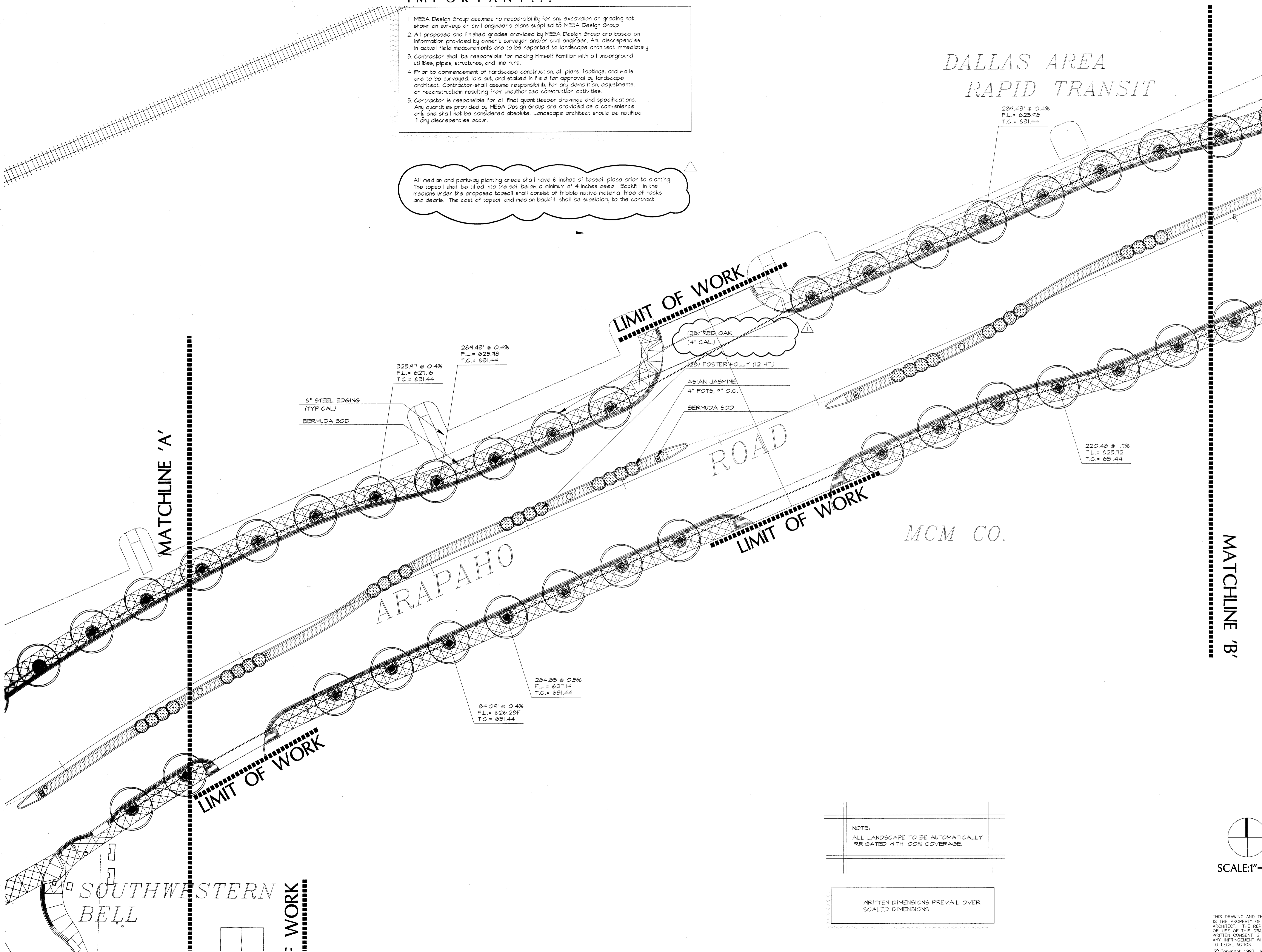
1. MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

All median and parkway planting areas shall have 6 inches of topsoil place prior to planting. The topsoil shall be tilled into the soil below a minimum of 4 inches deep. Backfill in the medians under the proposed topsoil shall consist of friable native material free of rocks and debris. The cost of topsoil and median backfill shall be subsidiary to the contract.

DALLAS AREA  
RAPID TRANSIT

3100 McKinnon Street  
Suite 905  
Dallas, Texas 75201  
(214) 871-0568 Fax: 871-1507

ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS



MATCHLINE 'A'

MATCHLINE 'B'

6" STEEL EDGING  
(TYPICAL)  
BERMUDA SOD

325.97 @ 0.4%  
F.L. = 627.16  
T.C. = 631.44

289.43 @ 0.4%  
F.L. = 625.98  
T.C. = 631.44

289.43 @ 0.4%  
F.L. = 625.98  
T.C. = 631.44

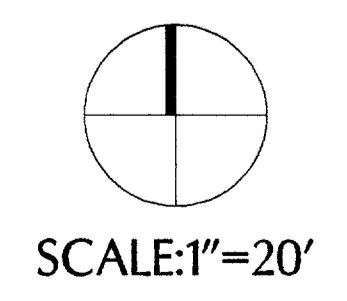
220.48 @ 1.7%  
F.L. = 625.72  
T.C. = 631.44

284.85 @ 0.5%  
F.L. = 627.14  
T.C. = 631.44

184.09 @ 0.4%  
F.L. = 626.28F  
T.C. = 631.44

NOTE:  
ALL LANDSCAPE TO BE AUTOMATICALLY  
IRRIGATED WITH 100% COVERAGE.

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.



Revisions

No.	Date	Item
△	03/10/98	CITY REVISIONS AS LISTED IN ADDENDUM NO. 5
	05/18/98	ADDITION OF TREE DRAINS.

Registration

KDH/RFM  
 Drawn  
 Checked  
**97018** Project No.      05/18/98 Date  
 Project No.      Date

Sheet Title  
**TREWELL  
DRAINS/  
PLANTING  
PLAN**  
 Sheet No.  
**PL-2**  
 C:/PROJECTS/97018/ADDBASE

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
 © Copyright 1997 MESA Design Group

SOUTHWESTERN  
BELL  
 WORK

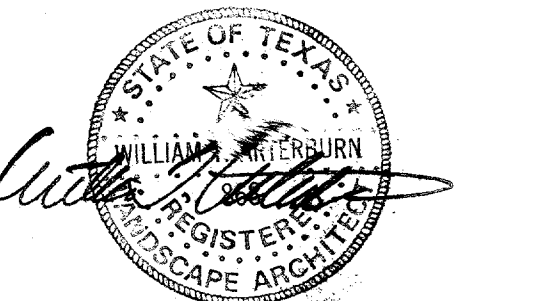
**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

Revisions

No.	Date	Item
1	03/10/98	CITY REVISIONS AS LISTED IN ADDENDUM NO. 5

Registration



KDH/RFM

Drown

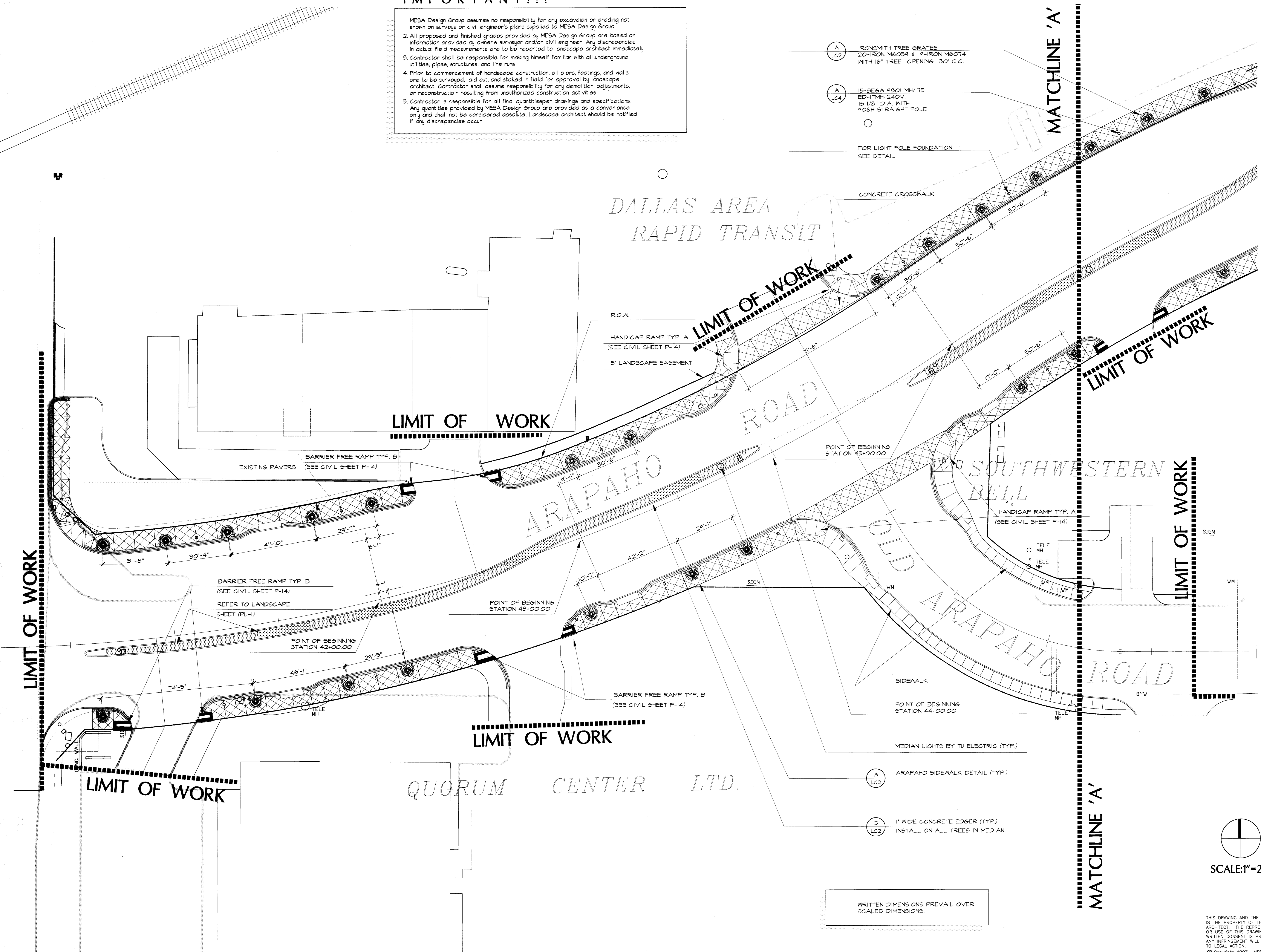
Checked 97018 12/12/97  
Project No. Date

Sheet Title

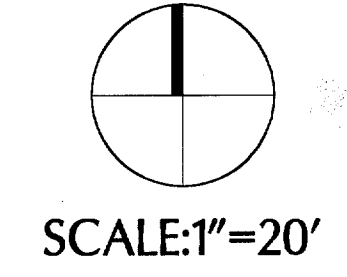
LAYOUT PLAN

Sheet No.

LA-1



WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.



THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

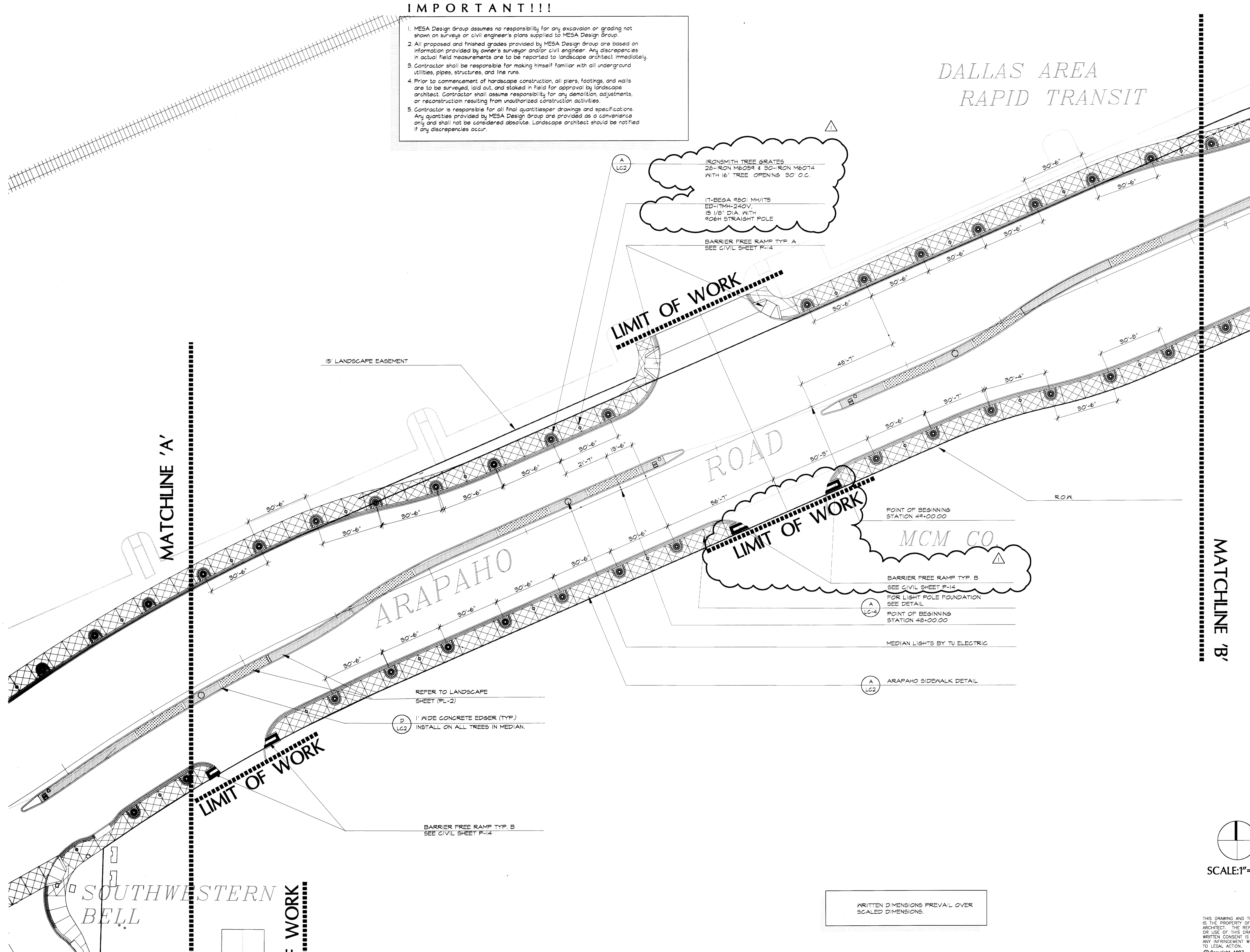
**IMPORTANT!!!**

- MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
- All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
- Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
- Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
- Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

DALLAS AREA  
RAPID TRANSIT

3100 McKinnon Street  
Suite 905  
Dallas, Texas 75201  
(214) 871-0568 Fax: 871-1507

ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS



Revisions

No.	Date	Item
△	03/10/98	CITY REVISIONS AS LISTED IN ADDENDUM NO. 5

Registration

STATE OF TEXAS  
WILLIAM J. WATKINS  
REGISTERED  
LANDSCAPE ARCHITECT

KDH/RFM  
Drawn

Checked  
97018  
Project No.

12/12/97  
Date

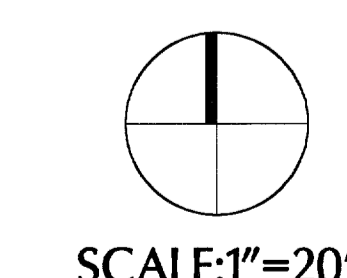
Sheet Title

LAYOUT PLAN

Sheet No.

LA-2

C:/PROJECTS/97018/ADDBASE



WRITTEN DIMENSIONS PREVAIL OVER SCALED DIMENSIONS.

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

**ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS**

MATCHLINE 'C'

MATCHLINE 'C'

TOWN OF  
ADDISON

CARRAMERICA LIMITED  
PARTNERSHIP

QUORUM  
DRIVE

DALLAS AREA  
RAPID TRANSIT

MCM CO.

LIMIT OF WORK

MATCHLINE 'B'

MATCHLINE 'B'

REFER TO LANDSCAPE  
SHEET (PL-3)

R.O.W.

QUORUM WALKWAY

15'-0" TYPICAL

STATION POINT 53

STATION POINT 52

12 - TREE WELLS

15' LANDSCAPE EASEMENT

R.O.W.

A  
LC1 8-BEGA 9801 MH/TSK  
ED-1TMH-24OV.  
15 1/8" DIA. WITH  
906H-STRAIGHT POLE

A  
LC4 FOR LIGHT POLE FOUNDATION  
SEE DETAIL

IRONSMTN TREEGRATES  
13-IRON M6059 13-IRON M6074  
4 13-M6000/OIF FRAMES WITH  
16" TREE OPENINGS 30' O.C.

A  
LC2 ARAPAHO SIDEWALK DETAIL

MEDIAN LIGHT BY T.V. ELECTRIC

GRAVEL

B  
LC4 (16) CUSTOM BOLLARD

A  
E-5 CONCRETE RETAINING WALL  
(REFER TO CIVIL REVISION)

D  
LC3 5' CONCRETE SIDEWALK  
(TYPICAL)

A  
LC1 ARAPAHO/QUORUM INTERSECTION  
LAYOUT PLAN

D  
LC3 5' CONCRETE SIDEWALK  
(TYPICAL)

B  
LC1 CORNER SCAPE

R.O.W.

D  
LC2 1" WIDE CONCRETE EDGER (TYP.)  
INSTALL ON ALL TREES IN MEDIAN.

Revisions

No.	Date	Item
1	03/10/98	CITY REVISIONS AS LISTED IN ADDENDUM NO. 5

Registration



KDH/RFM

Drawn

Checked  
97018 12/12/97  
Project No. Date

Sheet Title

LAYOUT  
PLAN

Sheet No.

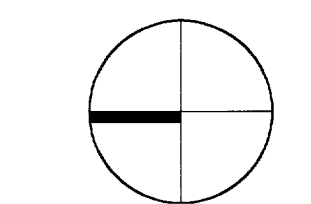
LA-3

C:/PROJECTS/97018/ADDBASE

**IMPORTANT!!!**

- MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
- All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
- Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
- Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
- Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.



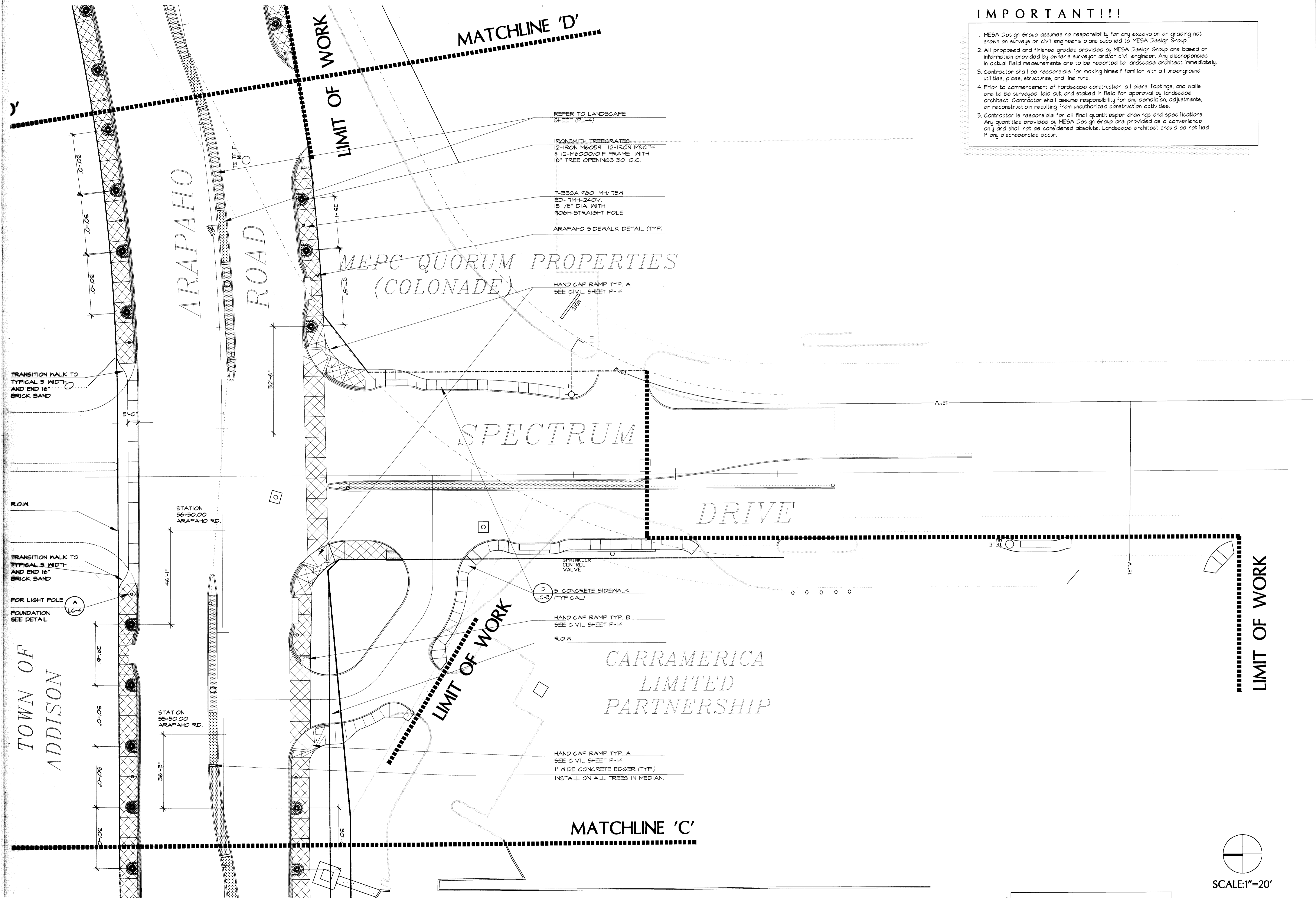
SCALE: 1" = 20'

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

## ARAPAHO ROAD STREETSCAPE CITY-OF-ADDISON, TEXAS

### IMPORTANT!!!

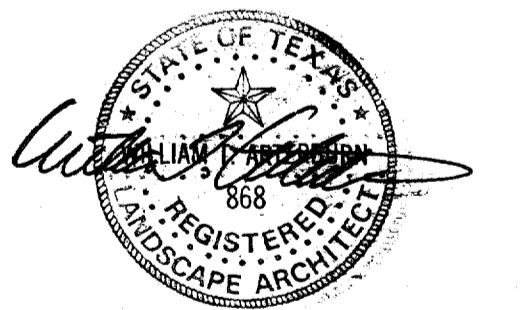
1. MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities per drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.



Revisions

No.	Date	Item
△	03/10/98	CITY REVISIONS AS LISTED IN APPENDUM NO. 5

Registration



KDH/RFM  
Drawn

Checked  
97018  
Project No.

12/12/97  
Date

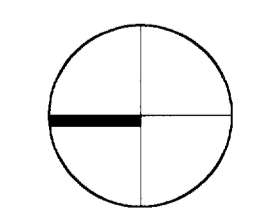
Sheet Title

LAYOUT  
PLAN

Sheet No.

LA-4

C:/PROJECTS/97018/ADDBASE



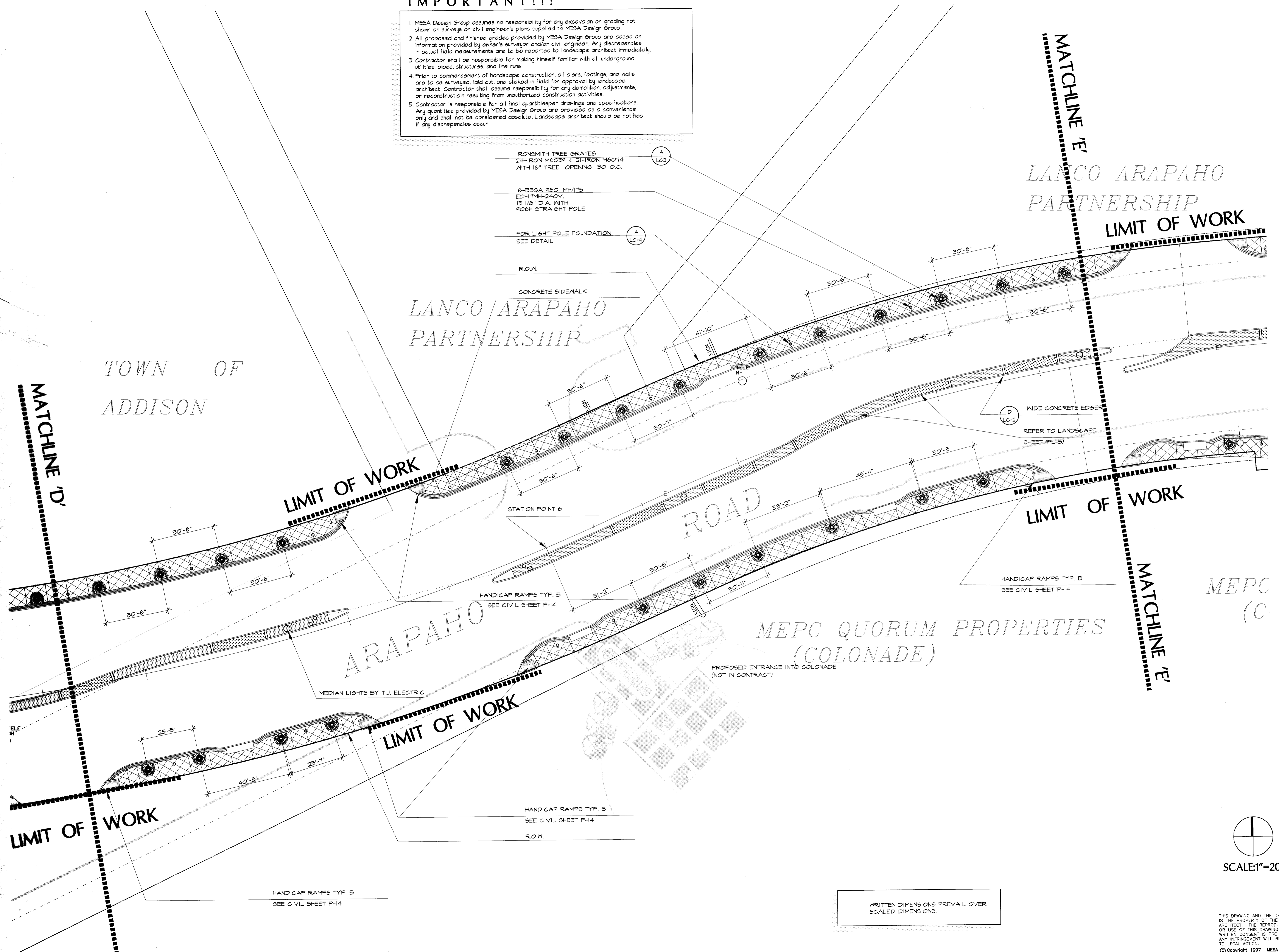
SCALE: 1"=20'

WRITTEN DIMENSIONS PREVAIL OVER  
SCALED DIMENSIONS.

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of hardscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities, drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

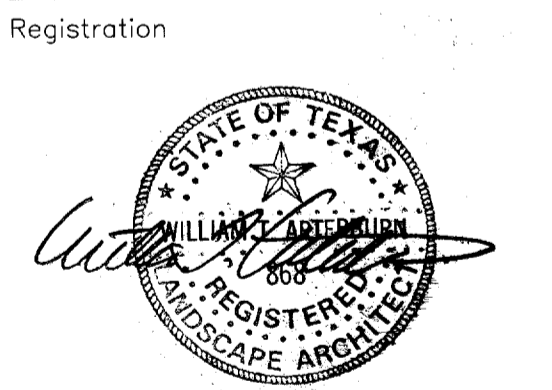


3100 McKinnon Street  
Suite 905  
Dallas, Texas 75201  
(214) 871-0568 Fax: 871-1507

**ARAPAHO ROAD  
STREETSCAPE**  
CITY-OF-ADDISON, TEXAS

Revisions

No.	Date	Item
△	03/10/98	CITY REVISIONS AS LISTED IN APPENDUM NO. 5



KDH/RFM  
Drawn

Checked  
**97018**      **12/12/97**  
Project No.      Date

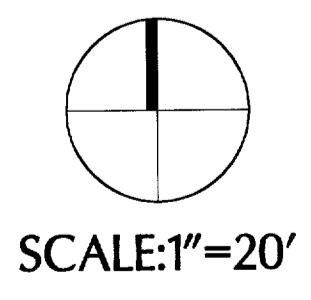
Sheet Title

**LAYOUT PLAN**

Sheet No.

**LA-5**

C:\PROJECTS\97018\ADDBASE



WRITTEN DIMENSIONS PREVAIL OVER SCALED DIMENSIONS.

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFREMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group

Revisions

No.	Date	Item
1	3/10/98	CITY REVISION AS LISTED IN ADDENDUM NO. 1

Registration

DCP  
Drawn  
DCP  
Checked  
7059  
Project No. 12/12/97  
Date

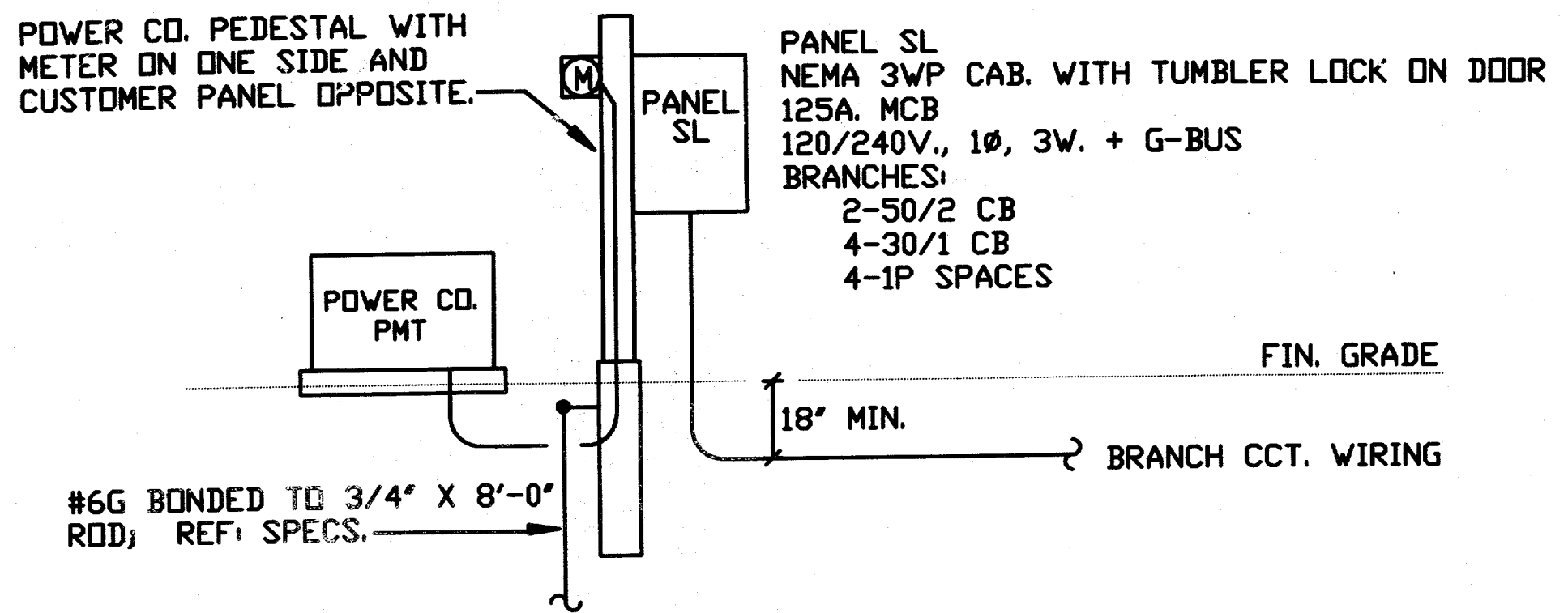
Sheet Title

SITE-ELECTRICAL PLAN

Sheet No. SE--1

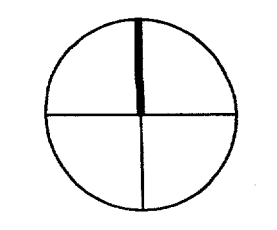
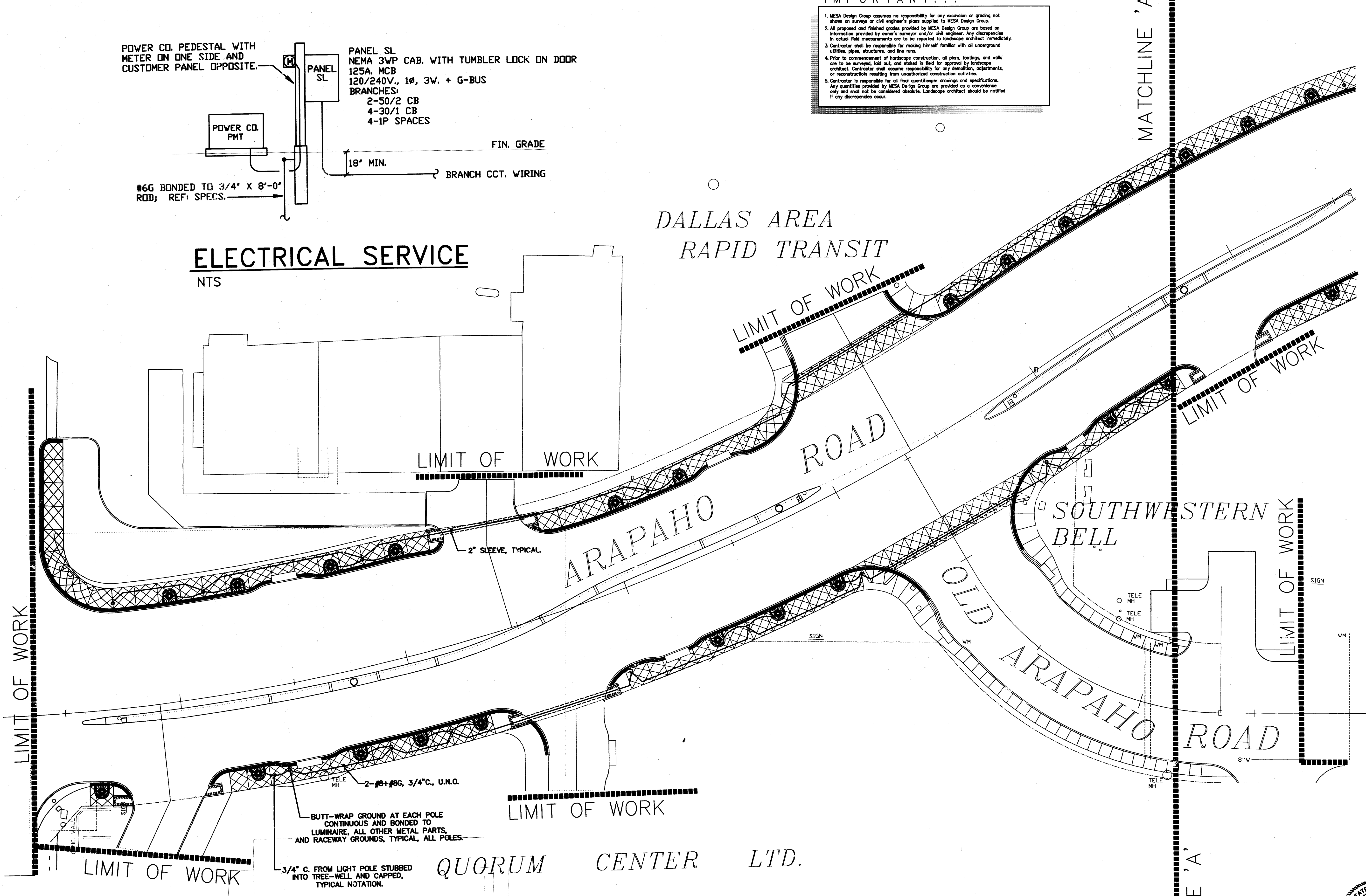
**IMPORTANT!!!**

- MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
- All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
- Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and the runs.
- Prior to commencement of landscape construction, all plans, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unapproved construction activities.
- Contractor is responsible for all final quantities drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.



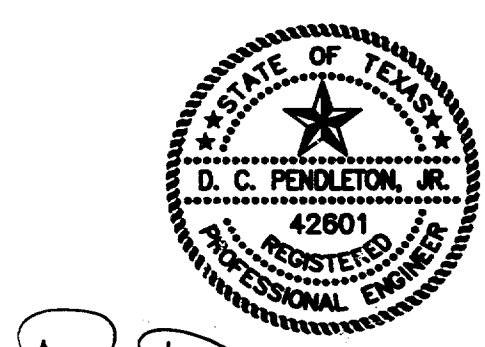
DALLAS AREA  
RAPID TRANSIT

**ELECTRICAL SERVICE**  
NTS



SCALE: 1" = 20'

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group



*D. C. Pendleton, Jr.*

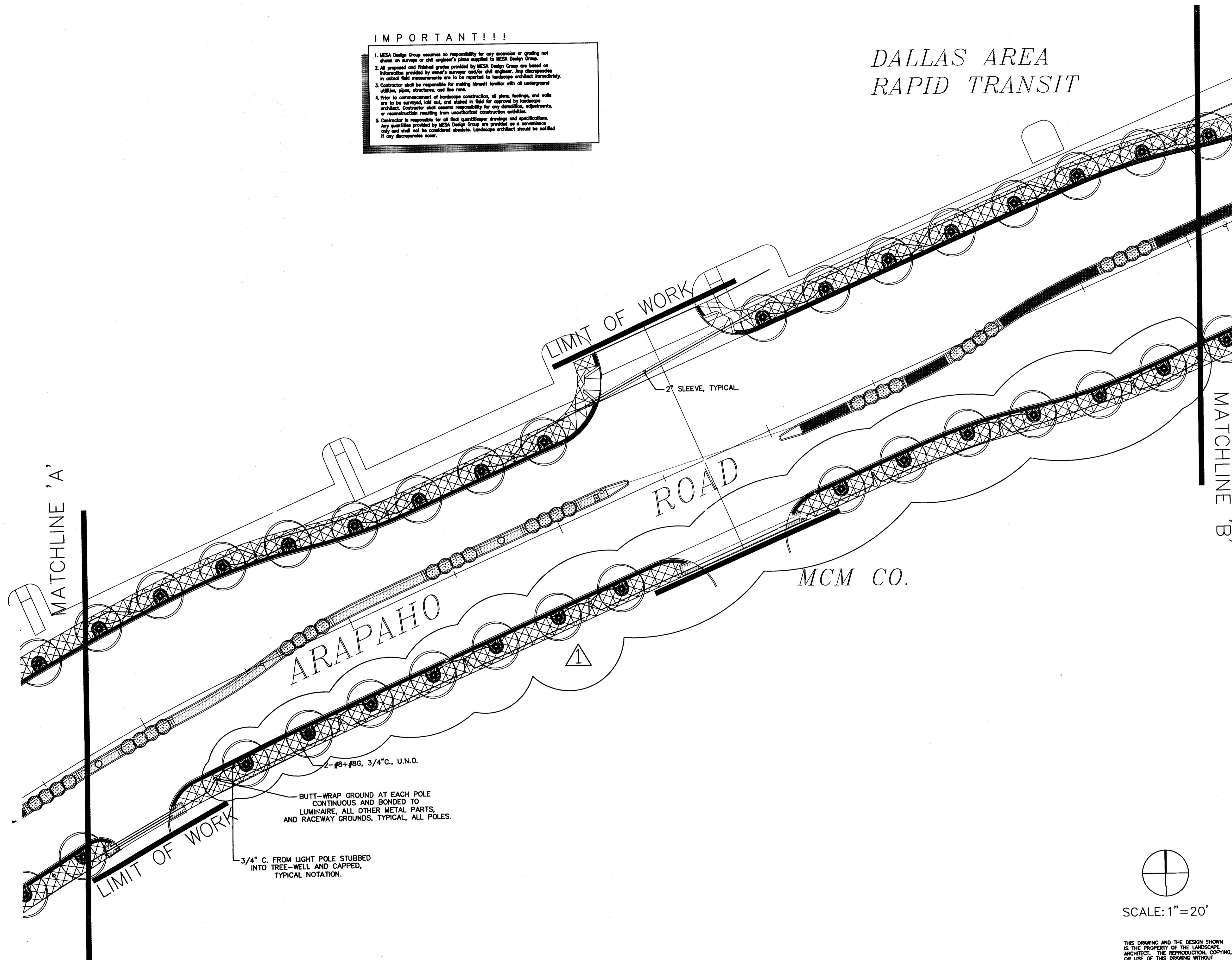
THE CHOICE APPEARING ON THIS DOCUMENT IS VALID IF, AND ONLY IF, ACCOMPANIED BY AN ORIGINAL SIGNATURE OF THE REGISTRANT AND DATE OF EXECUTION. DOCUMENTS NOT BEARING EACH OF THE 3 RECOMMENDED ITEMS SHALL BE CONSIDERED INCOMPLETE AND SHALL NOT BE USED FOR CONSTRUCTION, PERMIT, OR BIDDING PURPOSES.

**PENDLETON ENGINEERS**  
DESIGN CONSULTANTS  
11615 FOREST CENTRAL STE 101 LBI DALLAS TEXAS 75243  
214 341 2040 FAX 214 341 4152

**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any section or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and fire lines.
4. Prior to commencement of landscape construction, all plans, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

# DALLAS AREA RAPID TRANSIT

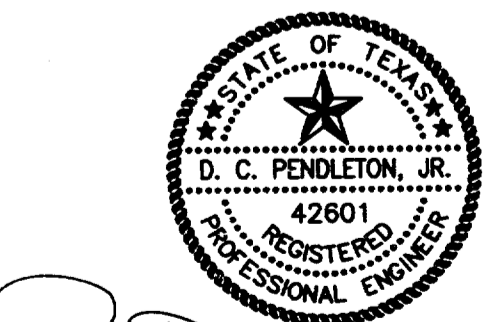


2-#8+#8G, 3/4" C., U.N.O.  
BUTT-WRAP GROUND AT EACH POLE CONTINUOUS AND BONDED TO LUMINAIRE, ALL OTHER METAL PARTS, AND RACEWAY GROUNDS, TYPICAL, ALL POLES.

3/4" C. FROM LIGHT POLE STUBBED INTO TREE-WELL AND CAPPED, TYPICAL NOTATION.

SCALE: 1" = 20'

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group



*D. C. Pendleton, Jr.* 20 MAR 98  
THE CADSEAL APPEARING ON THIS DOCUMENT IS VALID, AND ONLY IF ACCOMPANIED BY AN ORIGINAL SIGNATURE OF THE REGISTRANT AND DATE OF EXECUTION. DOCUMENTS MAY BEARING EACH OF THE 3 AFOREMENTIONED ITEMS SHALL BE CONSIDERED INCOMPLETE AND SHALL NOT BE USED FOR CONSTRUCTION, PERMIT, OR BIDDING PURPOSES.

**PEROLETON ENGINEERS**  
DESIGN CONSULTANTS  
11815 FOREST CENTRAL, SUITE 101, LBI DALLAS, TEXAS 75244  
214 341 2040 FAX 214 341 4

SOUTHWESTERN  
BELL

**MESA**  
DESIGN GROUP  
Landscape Architecture  
Urban Design  
Land Planning

3100 McKinnon Street  
Suite 905  
Dallas, Texas 75201  
(214) 871-0568 Fax: 871-1507

ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS

No.	Date	Item
Δ	3/10/98	CITY REVISION AS LISTED IN ADDENDUM NO.5

Registration

Drawn: DCP  
Checked: DCP  
Project No: 7059  
Date: 12/12/97  
Sheet Title

SITE-ELECTRICAL PLAN

Sheet No. SE-2



Revisions

No.	Date	Item
1	3/10/98	CITY REVISION AS LISTED IN ADDENDUM NO. 5.

Registration

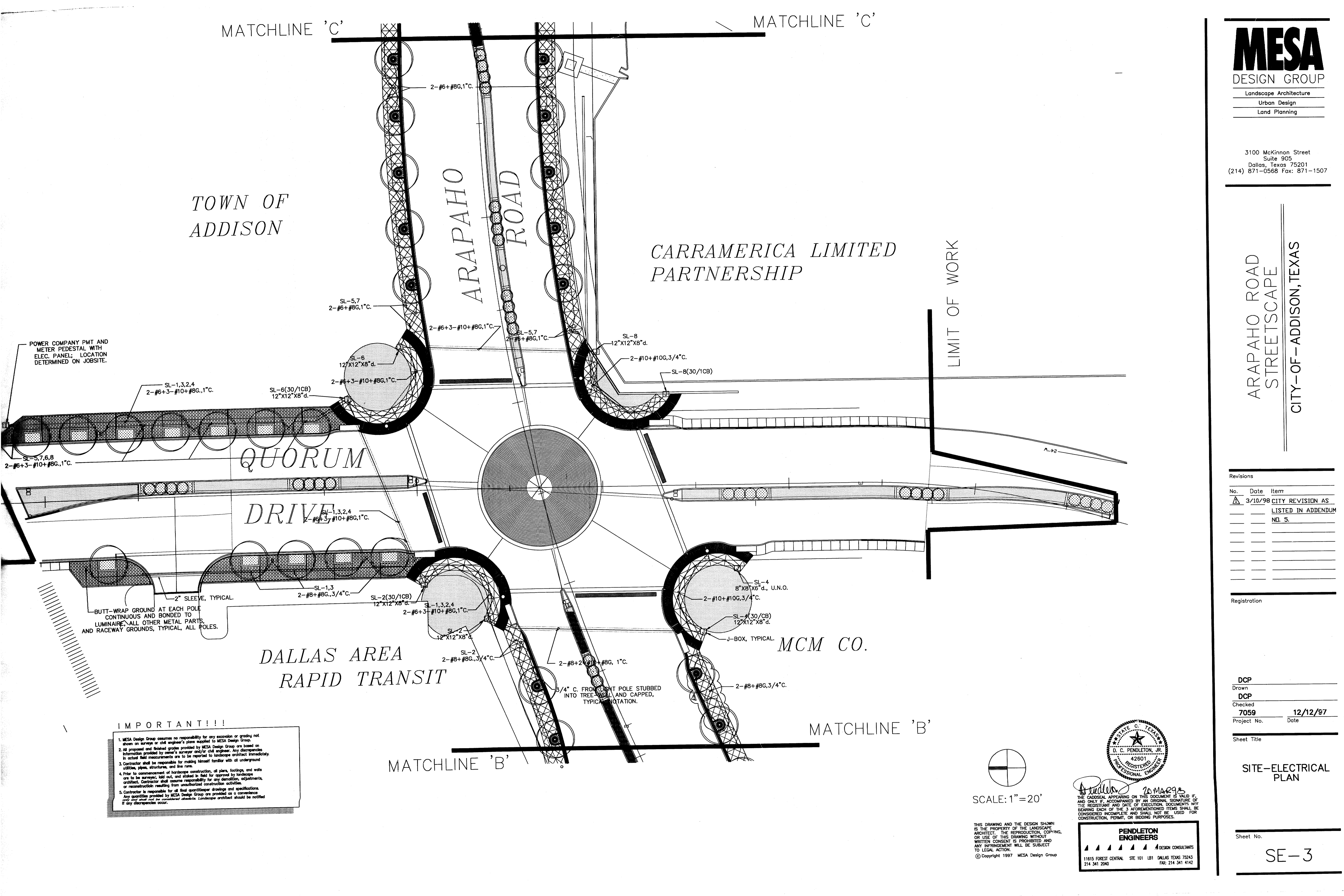
DCP	Drawn
DCP	Checked
7059	12/12/97
Project No.	Date

Sheet Title

SITE-ELECTRICAL PLAN

Sheet No.

SE-3



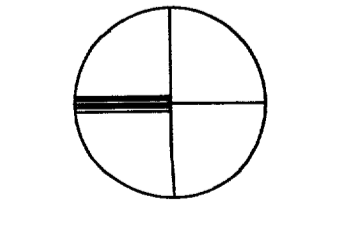
TOWN OF  
ADDISON

CARRAMERICA LIMITED  
PARTNERSHIP

MCM CO.

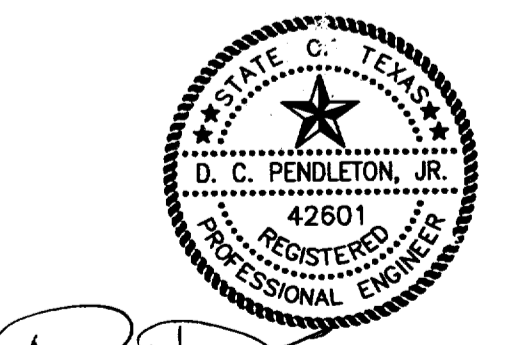
**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of landscape construction, all plans, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unavailability of construction activities.
5. Contractor is responsible for all final quantities drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.



SCALE: 1" = 20'

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group



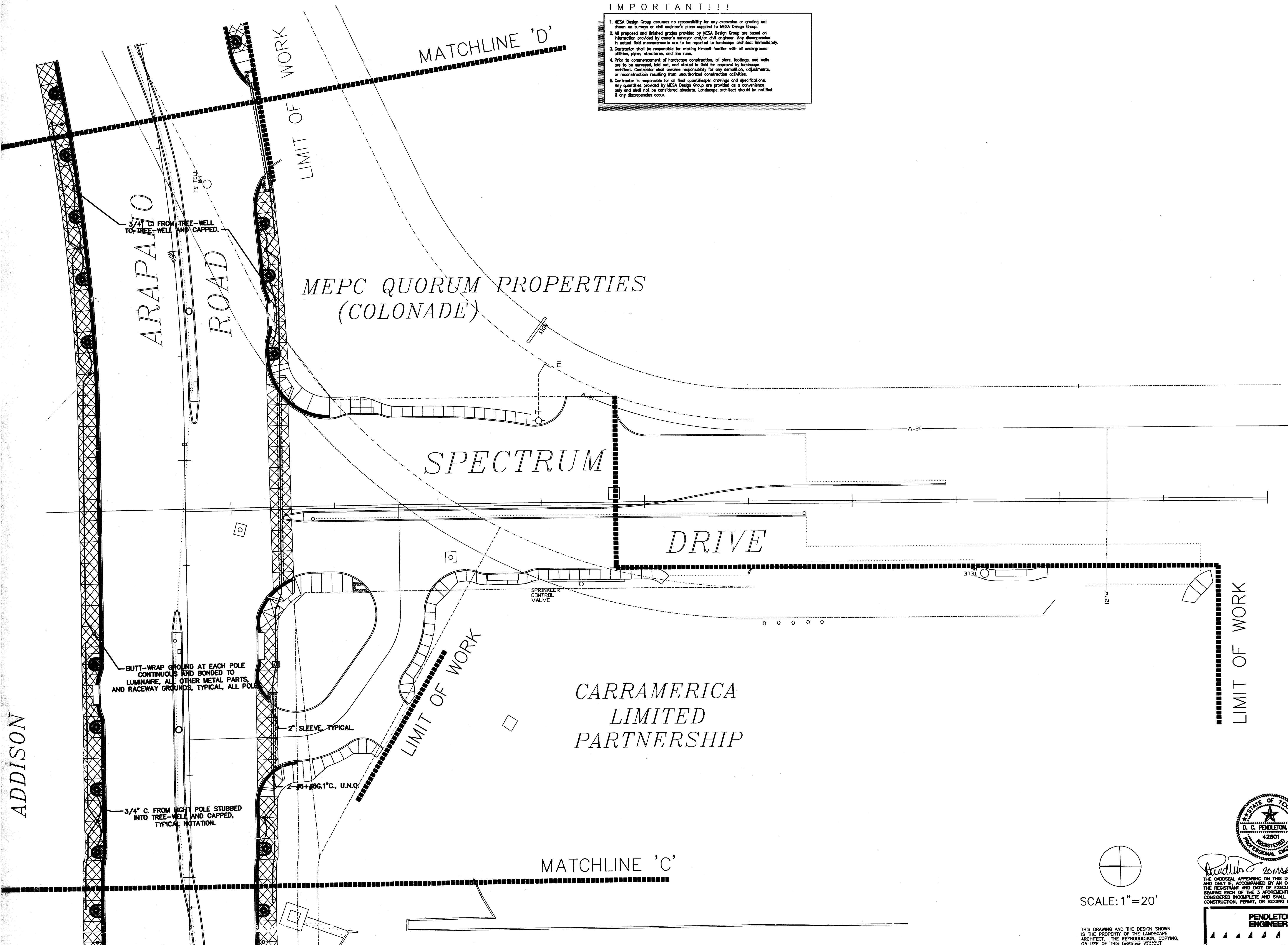
*D. Pendleton* 10 MAR 98

THE GADSEAL APPEARING ON THIS DOCUMENT IS VALID IF, AND ONLY IF, ACCOMPANIED BY AN ORIGINAL SIGNATURE OF THE REGISTRANT AND DATE OF EXECUTION. DOCUMENTS NOT BEARING EACH OF THE 3 AFOREMENTIONED ITEMS SHALL BE CONSIDERED INCOMPLETE AND SHALL NOT BE USED FOR CONSTRUCTION, PERMIT, OR BIDDING PURPOSES.

**PENDLETON ENGINEERS**  
DESIGN CONSULTANTS  
11615 FOREST CENTRAL, STE 101 LB1 DALLAS TEXAS 75243  
214 341 2040 FAX: 214 341 4142

**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any excavation or grading not shown on survey or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of landscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.



Revisions

No.	Date	Item
▲ 3/10/98		CITY REVISION AS LISTED IN ADDENDUM NO. 5.

Registration

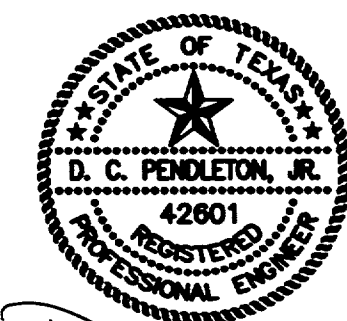
DCP	Drawn
DCP	Checked
7059	12/12/97
Project No.	Date

Sheet Title

SITE-ELECTRICAL PLAN

Sheet No.

SE-4



*D. C. Pendleton, Jr.*  
20MS293  
THE CADSEAL APPEARING ON THIS DOCUMENT IS VALID IF, AND ONLY IF, ACCOMPANIED BY AN ORIGINAL SIGNATURE OF THE REGISTRANT AND DATE OF EXECUTION. DOCUMENTS NOT BEARING EACH OF THE 3 AFORESAID ITEMS SHALL BE CONSIDERED INCOMPLETE AND SHALL NOT BE USED FOR CONSTRUCTION, PERMIT, OR BIDDING PURPOSES.

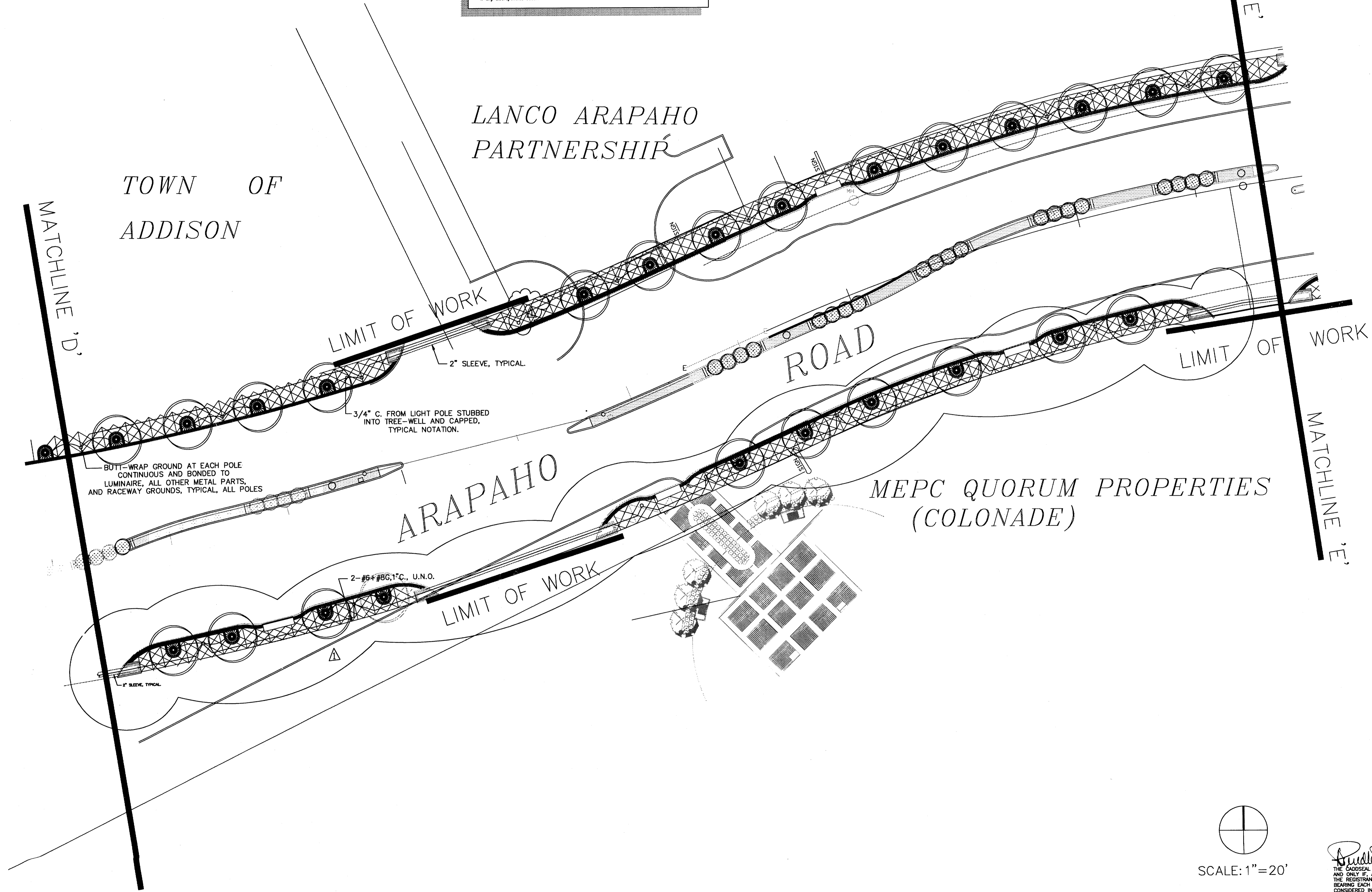
SCALE: 1" = 20'

THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
Copyright 1997 MESA Design Group

**PENDELTON ENGINEERS**  
DESIGN CONSULTANTS  
11815 FOREST LANTANA, SUITE 101 LB1 DALLAS, TEXAS 75244  
214 341 2400 FAX: 214 341 4142

**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any excavation or grading not shown on survey or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of landscape construction, all piers, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unapproved construction activities.
5. Contractor is responsible for all final quantities drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.



Revisions

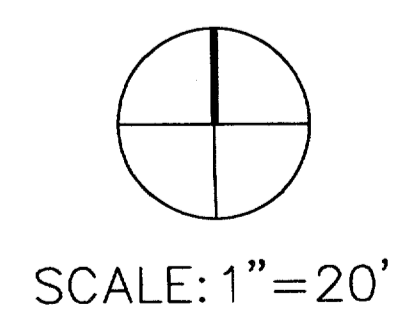
No.	Date	Item
1	3/10/98	CITY REVISION AS LISTED IN ADDENDUM NO. 5.

Registration

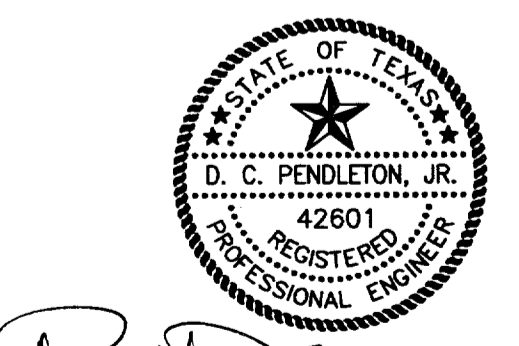

Drawn: DCP  
Checked: DCP  
Project No.: 7059 Date: 12/12/97  
Sheet Title:

SITE-ELECTRICAL PLAN

Sheet No.: SE-5



THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group



*Dudley D. MARGB*  
THE GADSDAL APPEARING ON THIS DOCUMENT IS VALID IF, AND ONLY IF, ACCOMPANIED BY AN ORIGINAL SIGNATURE OF THE REGISTRANT AND DATE OF EXECUTION. DOCUMENTS NOT BEARING EACH OF THE 3 AFOREMENTIONED ITEMS SHALL BE CONSIDERED INCOMPLETE AND SHALL NOT BE USED FOR CONSTRUCTION, PERMIT, OR BIDDING PURPOSES.

**PENDLETON ENGINEERS**  
DESIGN CONSULTANTS  
11615 FOREST CENTRAL, SUITE 101 LB1, DALLAS, TEXAS 75243  
214 341 2040 FAX: 214 341 4142

**IMPORTANT!!!**

1. MESA Design Group assumes no responsibility for any excavation or grading not shown on surveys or civil engineer's plans supplied to MESA Design Group.
2. All proposed and finished grades provided by MESA Design Group are based on information provided by owner's surveyor and/or civil engineer. Any discrepancies in actual field measurements are to be reported to landscape architect immediately.
3. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, structures, and line runs.
4. Prior to commencement of landscape construction, all plans, footings, and walls are to be surveyed, laid out, and staked in field for approval by landscape architect. Contractor shall assume responsibility for any demolition, adjustments, or reconstruction resulting from unauthorized construction activities.
5. Contractor is responsible for all final quantities drawings and specifications. Any quantities provided by MESA Design Group are provided as a convenience only and shall not be considered absolute. Landscape architect should be notified if any discrepancies occur.

CHATAHOOCHEE  
LEASING CORP.

LANCO ARAPAHO  
PARTNERSHIP

LIMIT OF WORK

2" SLEEVE, TYPICAL. 2-#6+ #8G, 1" C., U.N.O. 3/4" C. FROM LIGHT POLE STUBBED INTO TREE-WELL AND CAPPED, TYPICAL NOTATION.

ARAPAHO ROAD

ARAPAHO ROAD  
OVERPASS

BUTT-WRAP GROUND AT EACH POLE CONTINUOUS AND BONDED TO LUMINAIRE, ALL OTHER METAL PARTS, AND RACEWAY GROUNDS, TYPICAL, ALL POLES

MEPC QUORUM PROPERTIES  
(COLONADE)

DALLAS  
NORTH  
TOLLWAY

DALLAS  
NORTH

LIMIT OF WORK

LIMIT OF WORK

MATCHLINE 'E'

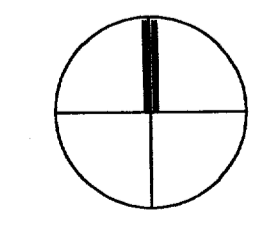
ARAPAHO ROAD  
STREETSCAPE  
CITY-OF-ADDISON, TEXAS

Revisions		
No.	Date	Item
1	3/10/98	CITY REVISION AS LISTED IN ADDENDUM NO. 5.

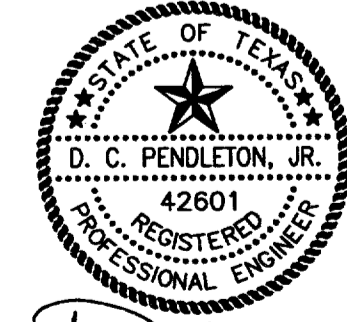
Registration	
DCP	
Drawn	
DCP	
Checked	
7059	12/12/97
Project No.	Date

Sheet Title  
**SITE-ELECTRICAL PLAN**

Sheet No.  
**SE-6**



SCALE: 1" = 20'

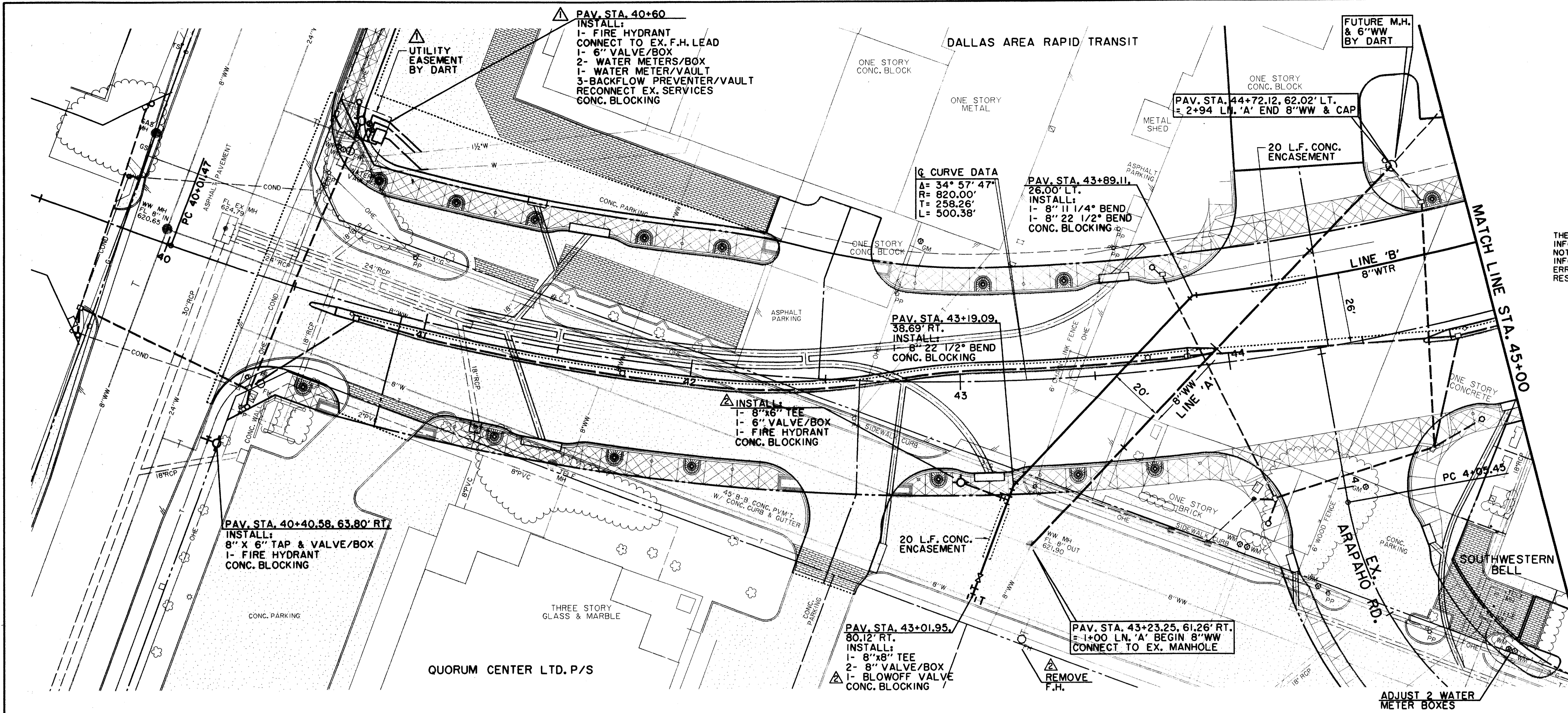


*D. C. Pendleton, Jr.* 20 MAR 98

THE CADDSAL APPEARING ON THIS DOCUMENT IS VALID IF, AND ONLY IF, ACCOMPANIED BY AN ORIGINAL SIGNATURE OF THE REGISTRANT AND DATE OF EXECUTION. DOCUMENTS NOT BEARING EACH OF THE 3 AFORESAID ITEMS SHALL BE CONSIDERED INCOMPLETE AND SHALL NOT BE USED FOR CONSTRUCTION, PERMIT, OR BIDDING PURPOSES.

**PENDLETON ENGINEERS**  
DESIGN CONSULTANTS  
11615 FOREST CENTRAL STE 101 LB1 DALLAS TEXAS 75243  
214 341 2040 FAX: 214 341 4142

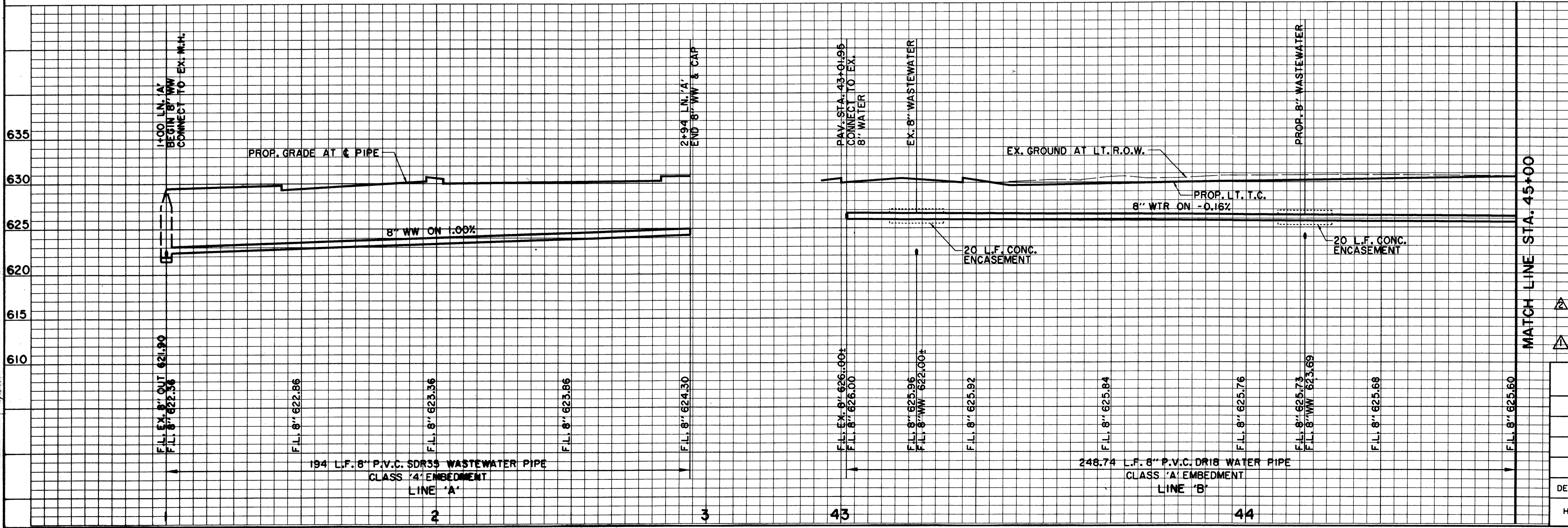
THIS DRAWING AND THE DESIGN SHOWN IS THE PROPERTY OF THE LANDSCAPE ARCHITECT. THE REPRODUCTION, COPYING, OR USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.  
© Copyright 1997 MESA Design Group



THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

**LEGEND**

	<b>ELECTRIC</b> — OHE		<b>WATER</b> — W
	○ LIGHT POLE		○ FIRE HYDRANT
	□ POWER POLE		○ METER
	— GUY WIRE		○ WATER VALVE
	<b>TELEPHONE</b> — T		
	○ TELEPHONE MANHOLE		— CHAIN LINK FENCE
	□ TELEPHONE PEDESTAL		— WOOD FENCE
	<b>GAS</b> — G		— EXISTING ASPHALT
	○ GAS METER		— EXISTING DIRT OR GRAVEL
	○ GAS SIGN		— EX. CONCRETE
	<b>LAND USE</b>		— TREE/TREE LINE
	○ RAILROAD SIGN		— EXISTING CURB
	○ SIGN		— PROP. CURB
	○ FOUND IRON ROD		— EX. PROPERTY LINE
	○ TEMP BENCHMARK		— PROP. CENTERLINE
	<b>WASTEWATER</b> — W		— PROP. R.O.W.
	○ WASTEWATER MANHOLE		— PROP. INLET
	○ CLEANOUT		— TOP OF PAVEMENT
			— TOP OF CURB
			— CURB RETURN



**BENCHMARKS:**  
 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61

635 "I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61

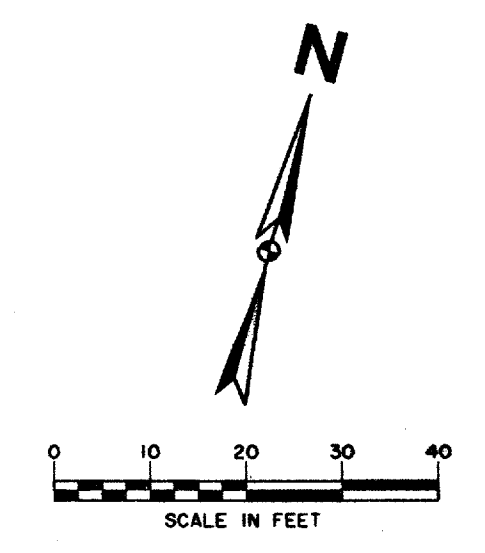
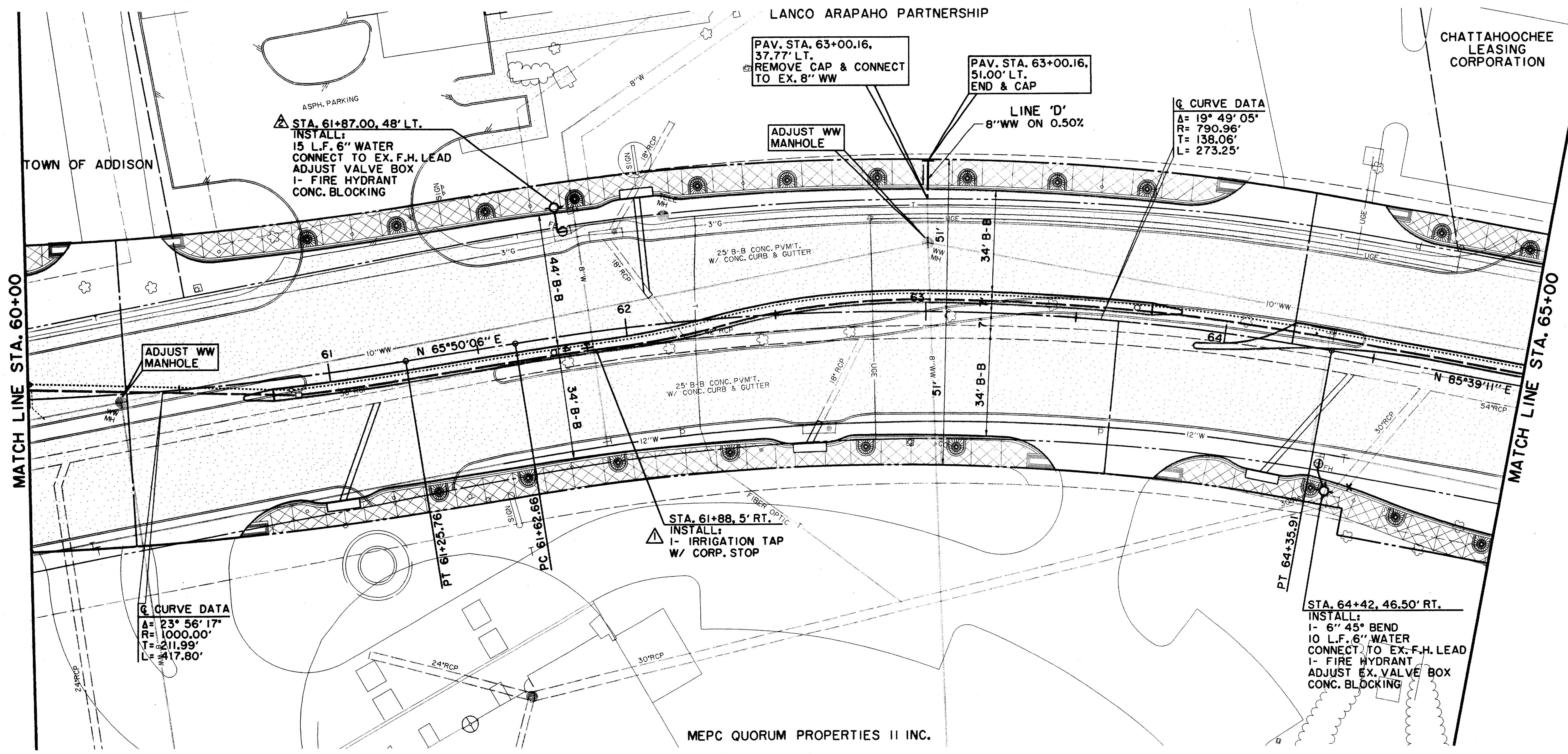
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997



RECORD DOCUMENTS 6/9/2000  
 REVISED 1/16/98

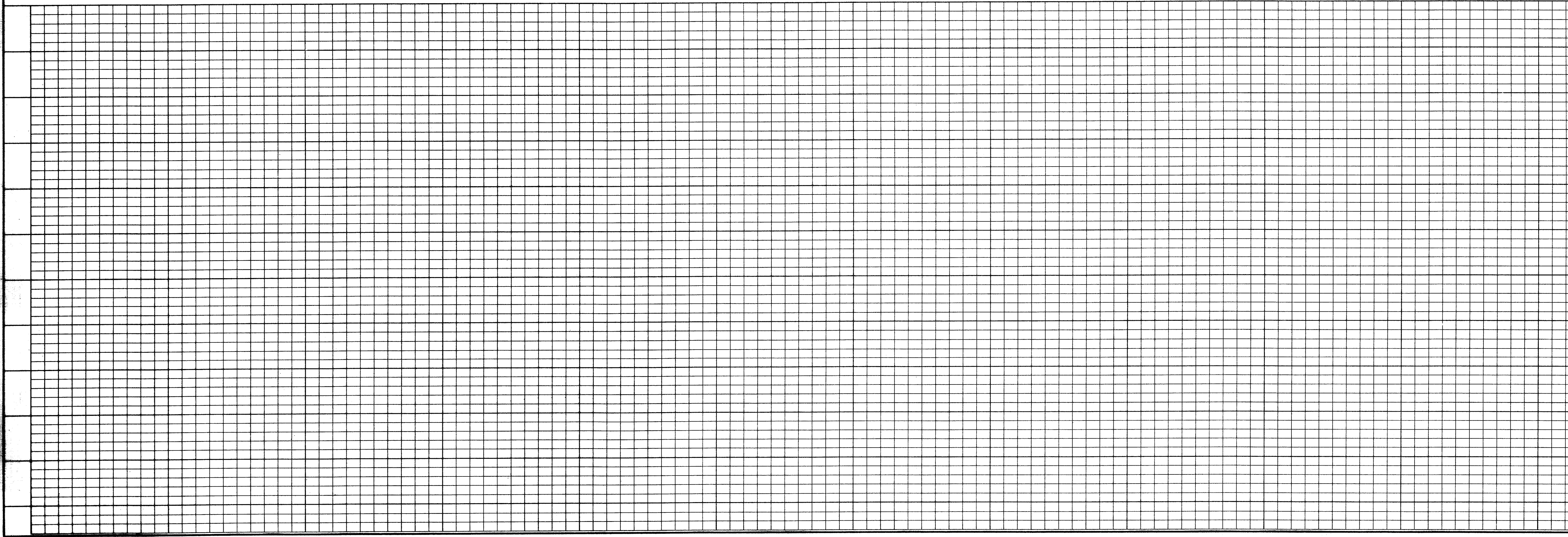
WATER & WASTEWATER PLAN & PROFILE ADDISON ROAD TO STA. 45+00						
<b>ARAPAHO ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
TOWN OF ADDISON, TEXAS						
Huitt-Zollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>1</sub> 1"=20' V <sub>1</sub> 1"=6'	OCT 97	1772-01	W-1

ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HUIIT-ZOLLARS, INC. AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE OR MODIFICATION OF THIS INFORMATION WITHOUT THE WRITTEN CONSENT OF HUIIT-ZOLLARS, INC. IS STRICTLY PROHIBITED.



THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

LEGEND	
<b>ELECTRIC</b> — OHE —	<b>WATER</b> — W —
○ LIGHT POLE	○ FIRE HYDRANT
pp ○ POWER POLE	WM ○ METER
← GUY WIRE	T WATER VALVE
<b>TELEPHONE</b> — T —	<b>MISC.</b>
TELE MH ○ TELEPHONE MANHOLE	X X X 48" RCP R.C.P. REMOVAL
TELE PE ○ TELEPHONE PEDESTAL	— CHAIN LINK FENCE
TS ○ TELEPHONE SIGN	— WOOD FENCE
GAS — G —	— EXISTING ASPHALT
GM ○ GAS METER	— EXISTING DIRT OR GRAVEL
GS ○ GAS SIGN	— EX. CONCRETE
<b>LAND USE</b>	— TREE/TREE LINE
R.R. RAILROAD SIGN	— EXISTING CURB
○ SIGN	— PROP. CURB
<b>SURVEY</b>	— EX. PROPERTY LINE
I.R. FOUND IRON ROD	— PROP. CENTERLINE
□ TEMP BENCHMARK	— PROP. R.O.W.
<b>WASTEWATER</b> — WW —	— PROP. INLET
WM MH WASTEWATER MANHOLE	— TOP OF PAVEMENT
CO CLEANOUT	— TOP OF CURB
	PVMT CURB RETURN
	T.C.
	C.R.



**BENCHMARKS:**

USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61

"I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAH0 ROAD. ELEV. 630.61

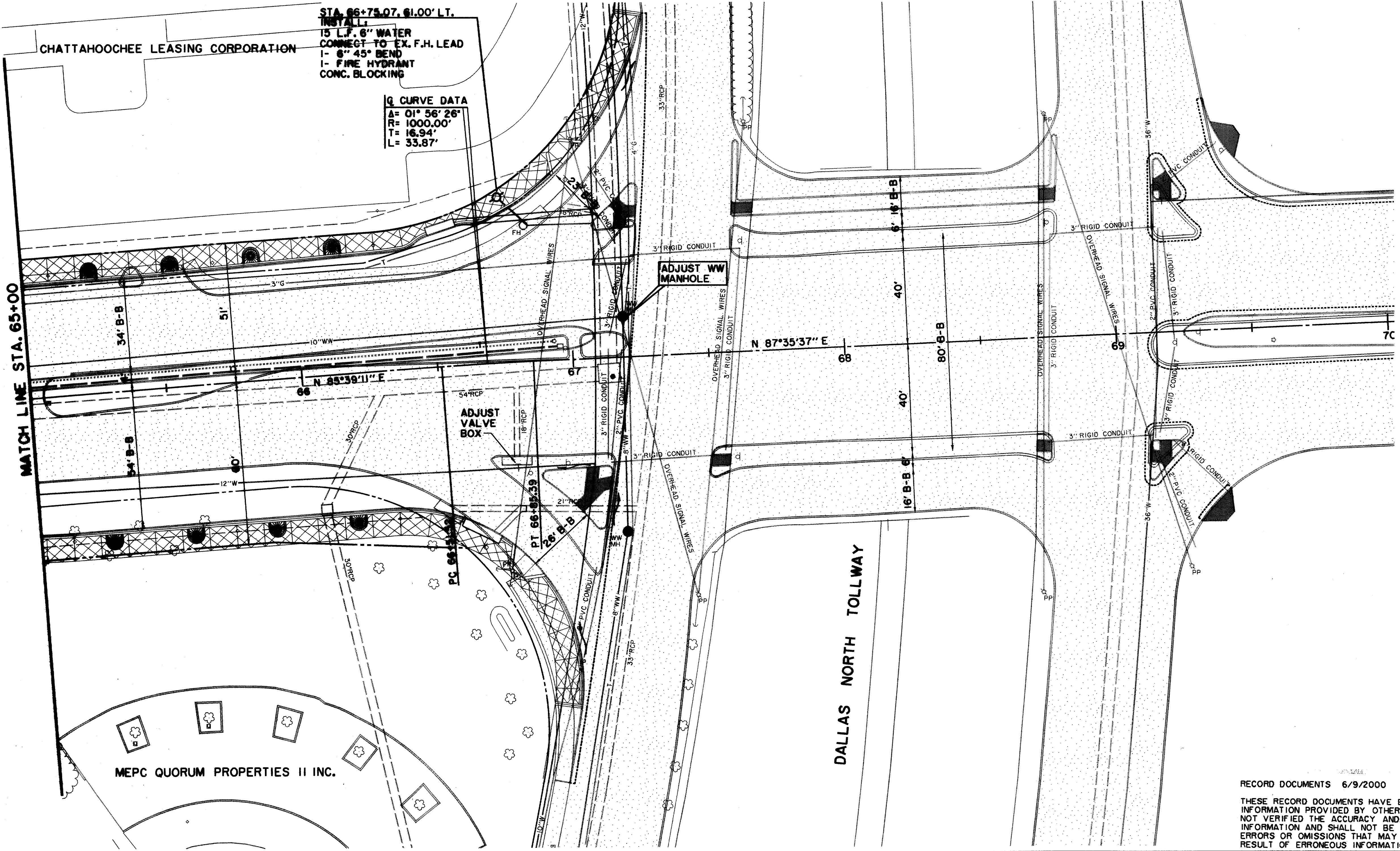
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

10-28-97

RECORD DOCUMENTS  
6/9/2000

REVISED  
1/16/98

<b>WATER &amp; WASTEWATER PLAN</b>						
STA. 60+00 TO STA. 65+00						
<b>ARAPAH0 ROAD</b>						
ADDISON ROAD TO DALLAS NORTH TOLLWAY						
<b>TOWN OF ADDISON, TEXAS</b>						
Hull-Zollers, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tusin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H <sub>1</sub> 1"=20' V <sub>1</sub> 1"=6'	OCT 97	1772-01	<b>W-5</b>



STA. 66+75.07, 61.00' LT.  
 INSTALL  
 15 L.F. 8" WATER  
 CONNECT TO EX. F.H. LEAD  
 1- 8" 45° BEND  
 1- FIRE HYDRANT  
 CONC. BLOCKING

G CURVE DATA  
 Δ= 01° 56' 26"  
 R= 1000.00'  
 T= 16.94'  
 L= 33.87'

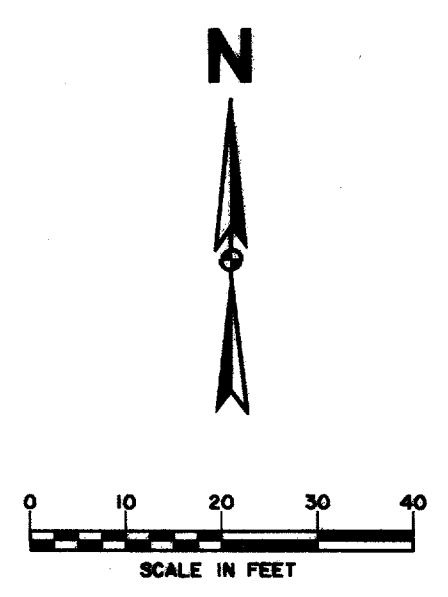
MATCH LINE STA. 65+00

ADJUST VALVE BOX

ADJUST WW MANHOLE

DALLAS NORTH TOLLWAY

MEPC QUORUM PROPERTIES II INC.



**LEGEND**

○ LIGHT POLE	○ ONE	○ FIRE HYDRANT
PP POWER POLE	○ WM	METER
○ GUY WIRE	T	WATER VALVE
○ TELEPHONE	T	MISC.
TELEPHONE MANHOLE	48" RCP	R.C.P. REMOVAL
○ TELEPHONE PEDESTAL	○	CHAIN LINK FENCE
TS TELEPHONE SIGN	○	WOOD FENCE
GAS	G	EXISTING ASPHALT
GM GAS METER	○	EXISTING DIRT OR GRAVEL
GS GAS SIGN	○	EX. CONCRETE
LAND USE	○	TREE/TREE LINE
RR RAILROAD SIGN	○	EXISTING CURB
SIGN	○	PROP. CURB
SURVEY	○	EX. PROPERTY LINE
IR FOUND IRON ROD	○	PROP. CENTERLINE
TEMP BENCHMARK	○	PROP. R.O.W.
WW WASTEWATER	○	PROP. INLET
WM WASTEWATER MANHOLE	○	P.V.T. TOP OF PAVEMENT
CO CLEANOUT	○	T.C. TOP OF CURB
		C.R. CURB RETURN

**BENCHMARKS:**  
 USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND, ELEV. 650.61

"I" ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD, ELEV. 630.61

RECORD DOCUMENTS 6/9/2000

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 55446 ON OCTOBER 24, 1997

10-24-97

**WATER & WASTEWATER PLAN**  
 STA. 65+00 TO DALLAS NORTH TOLLWAY  
**ARAPAHO ROAD**  
 ADDISON ROAD TO DALLAS NORTH TOLLWAY  
**TOWN OF ADDISON, TEXAS**

Hull-Jollars, Inc./Consulting Engineers Dallas, Fort Worth, Houston, Phoenix, Tustin						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	H: 1"=20' V: 1"=6'	OCT 97	1772-01	W-6