METHODIST HOSPITAL
CIVIL CONSTRUCTION PLANS
ADDISON, TEXAS
FILE NUMBER: 311T-7863

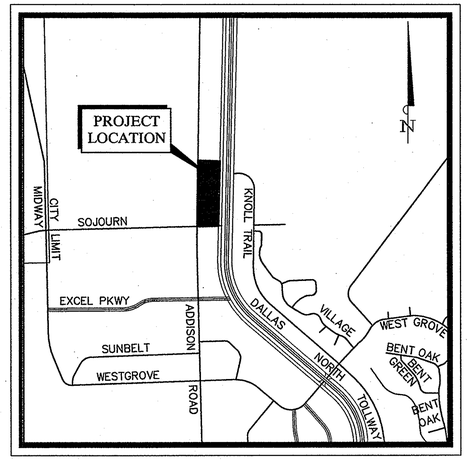
PAVING, DRAINAGE, AND UTILITY CONSTRUCTION PLANS FOR

METHODIST HOSPITAL FOR SURGERY

WEST OF DALLAS NORTH TOLLWAY, EAST OF ADDISON ROAD, NORTH OF SOJOURN DRIVE ADDISON, TEXAS

PLANS SUBMITTAL/REVIEW LOG

FIRST SUBMITTAL TO TOWN OF ADDISON - NOT FOR CONSTRUCTION.	5/1/09
SECOND SUBMITTAL TO TOWN OF ADDISON - NOT FOR CONSTRUCTION.	6/17/09
THIRD SUBMITTAL TO TOWN OF ADDISON - NOT FOR CONSTRUCTION.	7/29/09
FOURTH SUBMITTAL TO TOWN OF ADDISON - NOT FOR CONSTRUCTION.	8/14/09
SUBMITTAL FOR CONSTRUCTION	8/25/09
CITY OF DALLAS COMMENTS	09/09/09
RESUBMITTAL TO TOWN OF ADDISON -NOT FOR CONSTRUCTION. MODIFICATIONS BASED ON CHANGE TO THE CENTRAL UTILITY PLANT.	10/21/09
RESUBMITTAL TO TOWN OF ADDISON	11/03/09



VICINITY MAP
N.T.S.

AUGUST 25, 2009

PW#2008-18

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	DATE	REVISION 1	2	3	4
C-01	COVER SHEET	8/25/09	11/03/09	12/21/09	1/7/10	3/10/10
1 of 1	FINAL PLAT					
C-02	GENERAL NOTES	8/25/09	11/03/09			
C-03	DEMOLITION PLAN	8/25/09	11/03/09			
C-04	DIMENSION CONTROL AND PAVING PLAN	8/25/09	11/03/09	12/21/09		3/10/10
C-05	GRADING PLAN	8/25/09	11/03/09	12/21/09		3/10/10
C-06	DRAINAGE AREA MAP	8/25/09	11/03/09			
C-07	STORM SEWER CALCULATIONS	8/25/09	11/03/09			
C-08	DETENTION CALCULATIONS	8/25/09	11/03/09			
C-09	STORM SEWER PLAN	8/25/09	11/03/09	12/21/09		
C-10	STORM SEWER PROFILES	8/25/09	11/03/09			
C-11	STORM SEWER PROFILES	8/25/09	11/03/09			
C-12	DETENTION PROFILES	8/25/09	11/03/09			
C-13	DETENTION PROFILES	8/25/09	11/03/09			
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C-15	WATER LINE PROFILES	8/25/09	11/03/09			
C-16	DALLAS NORTH TOLLWAY FRONTAGE ROAD TURN LANE #1	8/25/09	11/03/09		12/21/09	
C-17	DALLAS NORTH TOLLWAY FRONTAGE ROAD TURN LANE #2	8/25/09	11/03/09		12/21/09	
C-18	EROSION CONTROL PLAN	8/25/09	11/03/09			
C-19	EROSION CONTROL DETAILS	8/25/09	11/03/09			
C-20	CONSTRUCTION DETAILS	8/25/09	11/03/09			
C-21	CONSTRUCTION DETAILS	8/25/09	11/03/09			
C-22	CONSTRUCTION DETAILS	8/25/09	11/03/09			
C-23	TRAFFIC CONTROL PLAN	8/25/09	11/03/09			
SCP-4	TXDOT SINGLE BOX CULVERT - PRECAST - 4'-0" SPAN					
SCP-MD	TXDOT SINGLE BOX CULVERT - PRECAST - MISC. DETAILS					
MC-6-16	TXDOT MULTIPLE BOX CULVERTS CAST IN PLACE 6'-0" SPAN					
MC-8-13	TXDOT MULTIPLE BOX CULVERTS CAST IN PLACE 8'-0" SPAN					
MC-MD	TXDOT MULTIPLE BOX CULVERTS C.I.P. MISC. DETAILS					

RECORD DWG UPDATED 9/30/10

RECORD DWG UPDATED 10/15/10

NOT UPDATED FOR RECORD DRAWINGS

1 REVISION FROM CENTRAL UTILITY PLANT RELOCATION

2 REVISION TO DOCTOR PARKING AND DOCK LAYOUT

3 APPROVED CITY OF DALLAS TURN LANE PLANS

4 MODIFIED SITE PLAN: SHIFTED 2 LANDSCAPE ISLANDS IN N. PARKING, ADDED PARKING TO DR. AREA, MODIFIED DOCK AREA, ADJUSTED RADIUS PAVING & SIDEWALK COMING OUT SOUTH SIDE OF MOTOR COURT, ADDED MOW STRIP, MODIFIED SIDEWALK AND PATIO AREA, INCREASED SIDEWALK FROM ELECTRICAL ROOM, MODIFIED CURB TO ALLOW FOR E-CALL BOXES

STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED
PROFESSIONAL ENGINEER
3/10/10

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

APPROVED FOR CONSTRUCTION
Town of Addison
Public Works Department
APPROVED BY: CLAY BARNETT
DATE: 3-16-2010

All responsibility for the adequacy of these plans remains with the Engineer who prepared them. In approving these plans, the Town of Addison makes no representation of adequacy of the work of the Design Engineer.

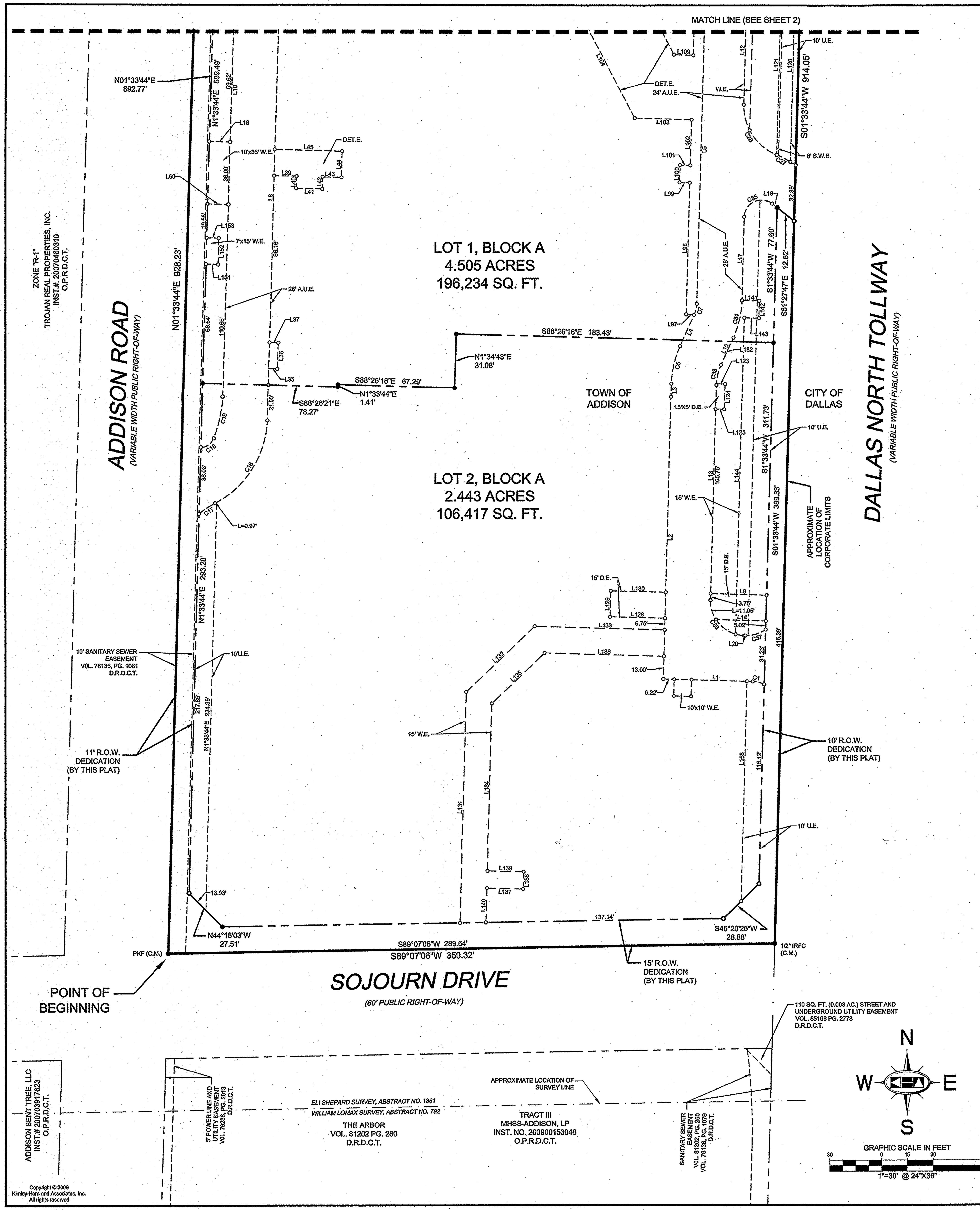
STOP!
CALL BEFORE YOU DIG
DIG TESS
1-800-DIG-TESS
(@ least 72 hours prior to digging)

C-01

DEVELOPER
ADVANTA MEDICAL DEVELOPMENT, LLC.
5225 VILLAGE CREEK DRIVE
PLANO, TX 75093
TEL: 972-499-6302

ARCHITECT
BOKA POWELL, LLC
8070 PARK LANE, SUITE 300
DALLAS, TX 75231
TEL: 972-701-9000
FAX: 972-991-3008

ENGINEER
Kimley-Horn and Associates, Inc.
5750 GENESIS COURT
SUITE 200
FRISCO, TEXAS 75034
TEL. (972) 335-3580
FAX. 972-335-3779
CONTACT: DAVID KOCHALKA, P.E.
STATE OF TEXAS REGISTRATION NO. F-928



OWNER'S CERTIFICATE

STATE OF TEXAS §
COUNTY OF DALLAS §

WHEREAS MHSS-ADDISON, LP, is the owner of a tract of land out of the Eli Shepard Survey, Abstract No. 1361, Town of Addison, Dallas County, Texas, being all of a tract of land described as "Tract I" and "Tract II" in Special Warranty Deed to MHSS-ADDISON, LP, recorded in Instrument No. 200900153048, Official Public Records of Dallas County, Texas and being more particularly described as follows:

BEGINNING at a PK nail found at the intersection of the north right-of-way line of Sojourn Drive (a 60-foot wide right-of-way) and the east right-of-way line of Addison Road (a variable width right-of-way);

THENCE with said east right-of-way line, North 01°33'44" East, a distance of 928.23 feet to a 5/8" iron rod with cap found for corner;

THENCE with a jog in said east right-of-way line, South 88°33'43" East, at a distance of 12.00 feet, passing the southwest corner of Two Rows Restaurant, an addition to the Town of Addison, Texas according to the plat recorded in Volume 2004081, Page 208, Deed Records of Dallas County, Texas, continuing with the south line of said Addition, at a distance of 338.00 feet, passing the southeast corner of said Addition and a point in the west right-of-way line of the Dallas North Tollway (a variable width right-of-way), continuing with a jog in said west right-of-way line, in all a total distance of 350.00 feet to a "X" cut in concrete found for corner;

THENCE with said west right-of-way line, South 01°33'44" West, a distance of 914.05 feet to a 1/2" iron rod with cap found for corner at the intersection of said west right-of-way line and the said north right-of-way line of Sojourn Drive;

THENCE with said north right-of-way line of Sojourn Drive, South 89°07'06" West, a distance of 350.32 feet the **POINT OF BEGINNING** and containing 7.4013 acres or 322,400 square feet of land.

SURVEYORS CERTIFICATION

KNOW ALL MEN BY THESE PRESENTS:

I, DANA BROWN, a Registered Professional Land Surveyor in the State of Texas, do hereby declare that I have prepared this plat from an actual on the ground survey of the land, and that the corner monuments shown thereon were properly placed under my personal supervision in accordance with Subdivision Regulations of the Town of Addison, Texas.

[illegible]

Dana Brown
Registered Professional Land Surveyor #5336
Kimley-Horn and Associates, Inc.
12700 Park Central Drive, Suite 1800
Dallas, Texas 75251
972-770-1300

STATE OF TEXAS REGISTERED DANA BROWN 5336 PROFESSIONAL LAND SURVEYOR

STATE OF TEXAS §
COUNTY OF COLLIN §

BEFORE ME, the undersigned authority, a Notary Public, on this day personally appeared Dana Brown, known to me to be the person whose name is subscribed to the foregoing instruments, and acknowledged to me that he executed the same for the purpose and considerations therein expressed and in the capacity therein stated.

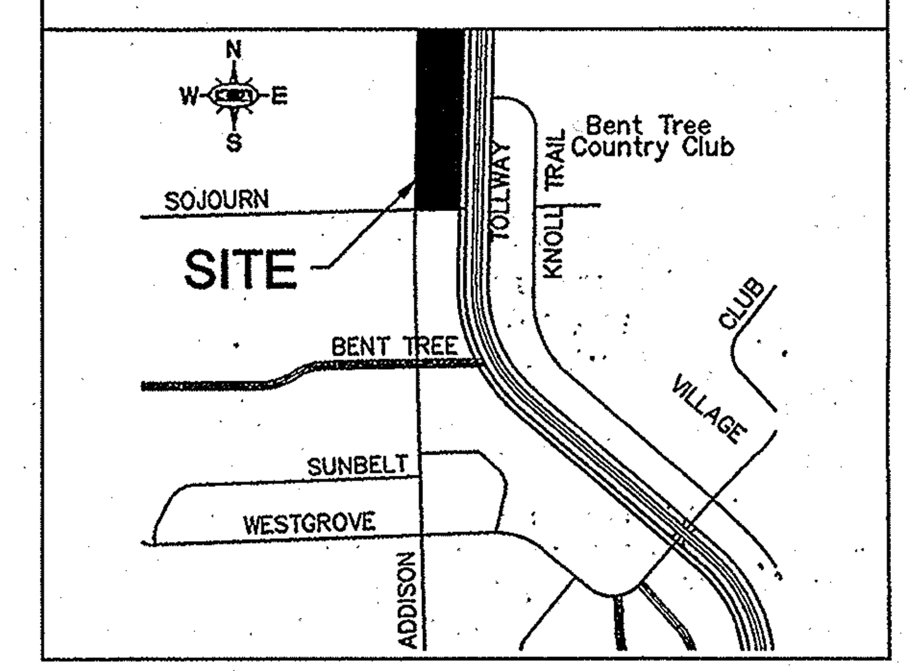
GIVEN UNDER MY HAND AND SEAL OF OFFICE this 4th day of August, 2010.

[illegible]
NOTARY PUBLIC in and for the STATE OF TEXAS

TAKESIA TATE
Notary Public, State of Texas
My Commission Expires
October 01, 2013

VICINITY MAP

N.T.S.



AREA TABLE

LOT	ACRES	SQUARE FEET
ROW	0.4534	19,748
LOT 1	6.9479	302,652
TOTAL	7.4013	322,400

LEGEND

IRF	IRON ROD FOUND
IRFC	CAPPED IRON ROD FOUND
IRS	5/8" IRON ROD WITH "KHA" CAP SET
(C.M.)	CONTROL MONUMENT
XF	"X" IN CONCRETE FOUND
PKF	PK NAIL FOUND
A.U.E.	ACCESS & UTILITY EASEMENT (BY THIS PLAT)
W.E.	WATER EASEMENT (BY THIS PLAT)
D.E.	DRAINAGE EASEMENT (BY THIS PLAT)
DET.E.	DETENTION EASEMENT (BY THIS PLAT)
S.E.	STREET EASEMENT (BY THIS PLAT)
N.I.E.E.	NON-EXCLUSIVE INGRESS/EGRESS EASEMENT (BY THIS PLAT)
S.W.E.	SIDE WALK EASEMENT (BY THIS PLAT)
U.E.	UTILITY EASEMENT (BY THIS PLAT)
O.P.R.D.C.T.	OFFICIAL PUBLIC RECORDS, DALLAS CO. TX.
D.R.D.C.T.	DEED RECORDS, DALLAS CO. TX.

NOTES

1. The bearing system for this plat is based on grid north of the Texas Coordinate System of 1983 resulting in a bearing of North 01°33'44" East, for the east right-of-way line of Addison Road.
2. All easements are by this plat unless otherwise noted.
3. This plat is subject to restrictions contained in deeds recorded in Volume 79119, Page 2604, Volume 78243, Page 191, and Volume 81101, Page 2295, all of the Deed Records of Dallas County, Texas.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

That **MHSS-ADDISON, LP** ("Owner") does hereby adopt this plat designating the hereinabove property as **MHS ADDITION,** an addition to the Town of Addison, Texas, and subject to the conditions, restrictions and reservations stated hereinafter, owner dedicates to the public use forever the streets and alleys shown thereon.

This plat is approved by the Town of Addison and accepted by the owners(s), subject to the following conditions which shall be binding upon the owner(s), his heirs, grantees and successors, and assigns:

The easement shown on this plat are hereby reserved for the purposes as indicated, including, but not limited to, the installation and maintenance of water, sanitary sewer, storm sewer, drainage, election, telephone, gas and cable television. Owner shall have the right to use these easements, provided, however, that it does not unreasonably interfere or impede with the provision of the services to others. Said utility easements are hereby being reserved by mutual use and accommodation of all public utilities using or desiring to use the same. An express easement of ingress and egress is hereby expressly granted on, over and across all such easements for the benefit of the provider of services for which easements are granted.

The proposed detention area easement(s) within the limits of this addition, will remain as detention area(s) to the line and grade shown on the plans at all times and will be maintained by the individual owner(s) of the lot or lots that are traversed by or adjacent to the detention area(s). The Town of Addison will not be responsible for the maintenance and operation of said detention area(s) or any damage or injury to private property or person that results from the flow of water along, into or out of said detention area(s), or for the control of erosion.

No obstruction to the natural flow of storm water run-off shall be permitted by filling or construction of any type of dam, building, bridge, fence, walkway or any other structure within the designated detention area(s) unless approved by the Director of Public Works, provided; however, it is understood that in the event it becomes necessary for the Town of Addison to erect any type of drainage structure in order to improve the storm drainage that may be occasioned by the streets and alleys in or adjacent to the subdivisions, then, in such event, the Town of Addison shall have the right to enter upon the detention area(s) at any point, or points, to erect, construct and maintain any drainage facility deemed necessary for drainage purposes. Each property owner shall keep the detention area(s) traversing or adjacent to his property clean and free of debris, silt and any substance which would result in unsanitary conditions or blockage of the drainage. The Town of Addison shall have the right of ingress and egress for the purpose of inspection and supervision of maintenance work by the property owner(s), or to alleviate any undesirable conditions, which may occur.

The detention area(s) as in the case of all detention areas are subject to storm water overflow(s) to an extent which cannot be clearly defined. The Town of Addison shall not be held liable for any damages of any nature resulting from the occurrences of these natural phenomena, nor resulting from the failure of any structure or structures, within the detention area(s) or subdivision storm drainage system.

The detention area easement line identified on this plat shows the detention area(s) serving this addition.

Water main and sanitary sewer easements shall also include additional area of working space for construction and maintenance of the systems. Additional easement area is also conveyed for installation and maintenance of manholes, cleanouts, fire hydrants, water service and sewer services from the main to curb or pavement line, and the descriptions of such additional easements herein granted shall be determined by their locations as installed.

This plat is approved subject to all platting ordinances, rules, regulations and resolutions of the Town of Addison, Texas.

WITNESS, my hand, this 5th day of August, 2010.

By: MHSS-ADDISON, LP, a Texas limited partnership

By: SRP/Medica-Addison GP, LLC, a Texas limited liability company, its General Partner

By: [illegible]
Name: Marc Goldman
Title: EVP

STATE OF TEXAS §
COUNTY OF Dallas §

BEFORE ME, the undersigned Authority, A Notary Public in and for said county and state, on this day personally appeared Marc Goldman, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and consideration thereof expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 5 DAY OF August, 2010.

Allison Wylie
NOTARY PUBLIC in and for the STATE OF TEXAS

ALLISON WYLIE
Notary Public, State of Texas
My Commission Expires
March 10, 2013

APPROVED BY THE CITY COUNCIL OF THE TOWN OF ADDISON, TEXAS ON August 10, 2010.

[illegible]
Mayor

[illegible]
City Secretary

Conformed Copy
Official Public Records
John F. Warren, County Clerk
Dallas County, TEXAS
08/11/2010 01:34:05 PM
$55.00

THE COUNTY OF DALLAS STATE OF TEXAS

[illegible]

201000204888

RECORD DRAWINGS
(SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

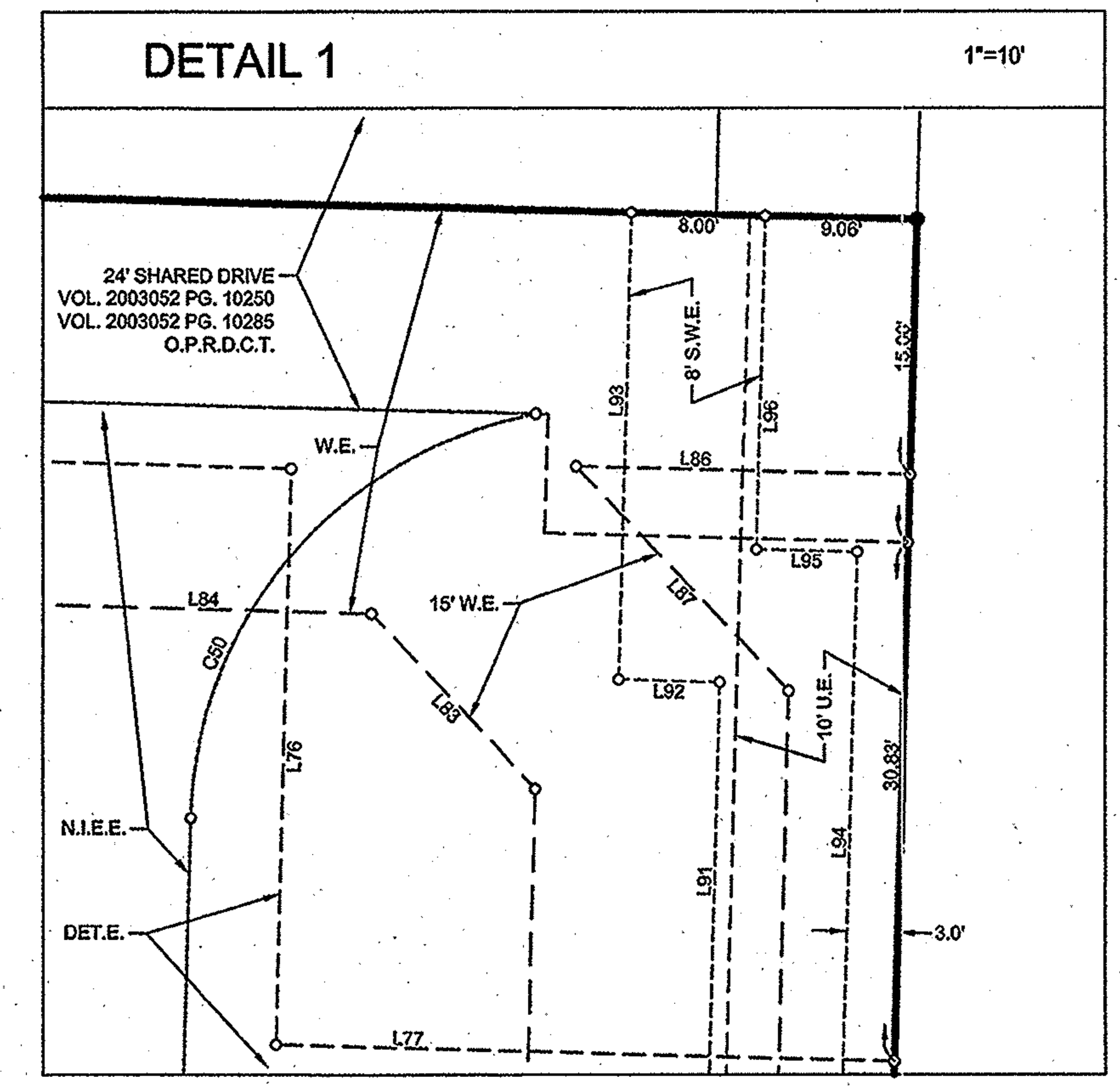
OWNER
MHSS-ADDISON, LP
8343 DOUGLAS AVENUE, SUITE 350
DALLAS, TX, 75225
TEL: (972) 499-6302

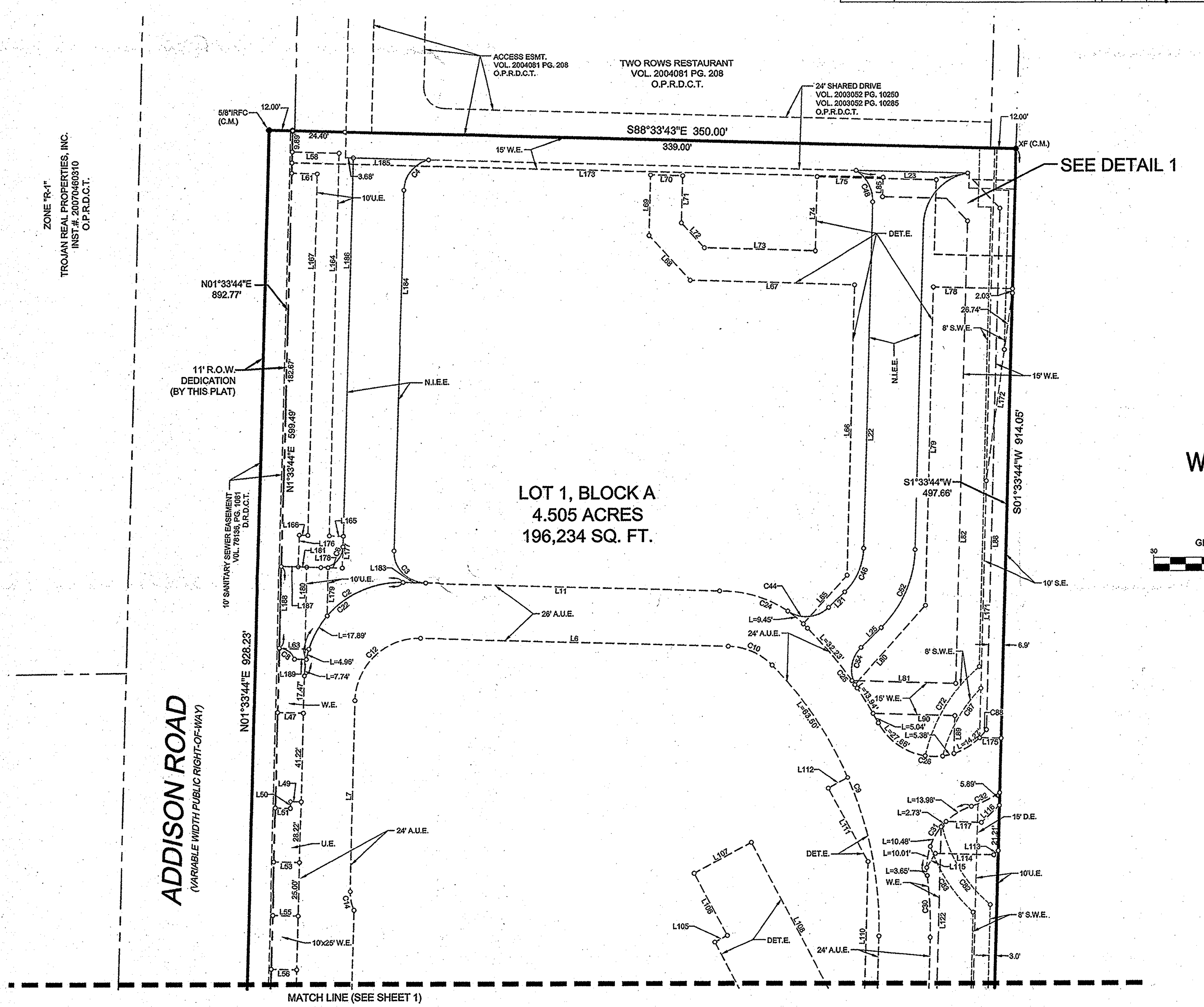
FINAL PLAT
MHS ADDITION
LOT 1 & LOT 2, BLOCK A
ELI SHEPARD SURVEY, ABSTRACT NO. 1361
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

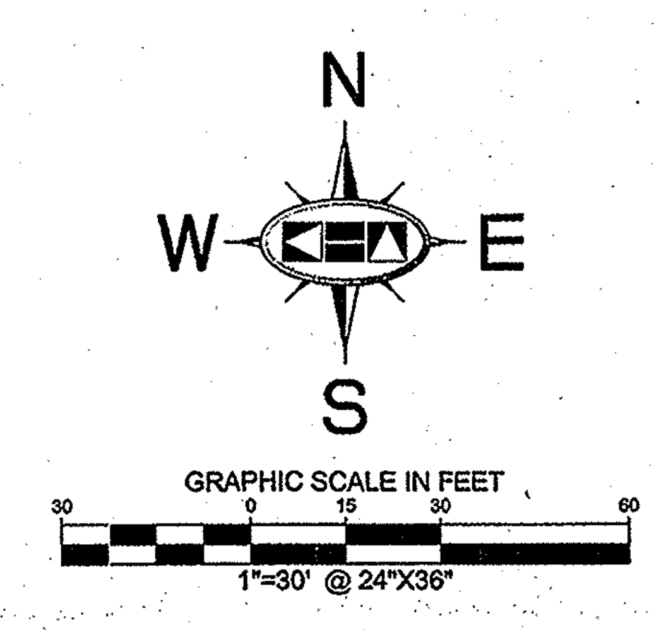
Kimley-Horn and Associates, Inc.

12700 Park Central Drive, Suite 1800
Dallas, Texas 75251
Tel. No. (972) 770-1300
Fax No. (972) 239-3820

Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
1" = 30'	SRD	DAB	APRIL 2009	069302500	1 OF 2







LINE TABLE		
NO.	BEARING	LENGTH
L1	N88°26'16"W	51.68'
L2	N01°33'44"E	162.20'
L3	N01°33'44"E	7.61'
L4	N23°59'11"E	19.84'
L5	N01°34'30"E	177.58'
L6	N88°26'16"W	144.19'
L7	S01°33'44"W	88.87'
L8	S01°33'44"W	258.07'
L9	S88°26'16"E	32.24'
L10	N01°33'44"E	353.19'
L11	S88°26'16"E	148.69'
L12	N01°33'44"E	62.53'
L13	N01°33'44"E	123.81'
L14	S88°26'16"E	28.77'
L15	N24°24'00"E	17.16'
L17	N01°33'44"E	47.84'
L18	S88°26'16"E	12.02'
L19	S52°19'23"E	3.64'
L20	N88°26'16"W	0.61'
L21	N45°16'00"E	10.81'
L22	N01°33'44"E	161.01'
L23	S88°33'43"E	52.20'
L24	S01°33'44"W	151.13'
L25	S45°16'00"W	13.21'
L35	N88°26'16"W	5.00'
L36	S01°33'44"W	15.00'
L37	N88°26'16"W	5.00'
L39	S88°26'16"E	12.89'
L40	S01°33'44"W	7.01'
L41	S88°26'16"E	15.00'
L42	N01°33'44"E	7.01'
L43	S88°26'16"E	11.00'
L44	N01°33'44"E	15.00'
L45	N88°26'16"W	38.89'
L47	N88°26'16"W	12.02'
L49	S88°26'16"E	5.00'
L50	N01°33'44"E	3.22'
L51	N88°25'17"W	7.02'
L53	S88°26'16"E	12.02'
L55	N88°26'16"W	12.02'
L56	N88°25'17"W	12.02'
L58	N88°26'16"W	22.03'
L60	S88°26'16"E	12.02'
L61	N88°26'16"W	12.03'
L63	N88°26'16"W	13.80'
L65	N41°33'44"E	30.92'
L66	N01°33'44"E	135.67'
L67	N88°26'16"W	76.91'
L68	N43°26'16"W	28.10'
L69	N01°33'44"E	28.11'

LINE TABLE		
NO.	BEARING	LENGTH
L70	S88°26'16"E	15.00'
L71	S01°33'44"W	21.90'
L72	S43°26'16"E	15.67'
L73	S88°26'16"E	51.92'
L74	N01°33'44"E	34.26'
L75	S88°26'16"E	55.68'
L76	S01°33'44"W	34.26'
L77	S88°26'16"E	37.07'
L78	N88°26'16"W	37.07'
L79	S01°33'44"W	149.10'
L80	S41°33'44"W	49.78'
L81	S88°26'16"E	48.55'
L82	N01°33'44"E	215.94'
L83	N43°26'16"W	14.36'
L84	N88°26'24"W	29.98'
L85	N01°33'36"E	9.04'
L86	S88°33'43"E	19.96'
L87	S43°26'16"E	18.48'
L88	S01°33'44"W	243.27'
L89	N01°33'44"E	17.58'
L90	N88°26'16"W	38.31'
L91	N01°33'36"E	214.43'
L92	N88°26'24"W	6.03'
L93	N01°33'36"E	27.65'
L94	N01°33'36"E	73.79'
L95	N88°26'24"W	6.03'
L96	N01°33'36"E	19.67'
L97	N85°37'38"W	4.48'
L98	N01°33'44"E	75.67'
L99	N88°26'16"W	5.92'
L100	N01°33'44"E	10.00'
L101	S88°26'16"E	5.92'
L102	N01°33'44"E	26.03'
L103	N88°26'16"W	32.80'
L104	N27°50'37"W	77.23'
L105	N62°09'23"E	6.58'
L106	N27°50'37"W	33.08'
L107	N62°09'23"E	30.33'
L108	S27°50'37"E	88.73'
L109	S88°26'16"E	11.23'
L110	N01°33'44"E	69.87'
L111	N28°26'16"W	38.98'
L112	N61°33'44"E	10.42'
L113	S46°33'44"W	2.79'
L114	N88°26'16"W	27.42'
L115	S31°33'44"W	7.70'
L116	S46°33'44"W	11.57'
L117	N88°26'16"W	16.58'
L120	N01°33'36"E	110.57'
L121	N01°33'36"E	103.11'

LINE TABLE		
NO.	BEARING	LENGTH
L122	N01°33'44"E	128.83'
L123	N88°26'16"W	4.99'
L124	N01°33'44"E	15.00'
L125	S88°26'16"E	5.00'
L128	N88°26'16"W	31.77'
L129	N01°33'44"E	15.00'
L130	S88°26'16"E	31.77'
L131	N01°33'44"E	133.47'
L132	N46°33'44"E	54.44'
L133	S88°26'16"E	75.27'
L134	N01°33'44"E	96.69'
L135	N46°33'44"E	42.01'
L136	S88°26'16"E	69.06'
L137	S88°26'16"E	21.00'
L138	N01°33'44"E	10.00'
L139	N88°26'16"W	21.00'
L140	N01°33'44"E	19.93'
L141	N88°26'16"W	10.00'
L142	N01°33'44"E	10.00'
L143	N88°26'16"W	8.40'
L144	N01°33'44"E	182.40'
L151	S88°26'16"E	7.00'
L152	N01°33'44"E	15.00'
L153	N88°26'16"W	7.00'
L158	S01°33'44"W	127.06'
L164	N01°33'44"E	177.67'
L165	S88°26'16"E	6.63'
L166	S88°26'16"E	4.01'
L167	N01°33'44"E	167.67'
L171	N01°33'44"E	120.65'
L172	N08°04'16"E	88.22'
L173	S88°33'43"E	276.99'
L175	S88°26'16"E	10.00'
L176	N01°33'44"E	15.00'
L177	S01°33'44"W	15.00'
L178	N88°26'16"W	6.63'
L179	S01°33'44"W	22.98'
L180	N01°33'44"E	51.27'
L181	N88°26'16"W	4.01'
L182	N24°24'00"E	14.81'
L183	N88°26'16"W	10.62'
L184	S01°33'48"W	167.43'
L185	S88°33'43"E	35.33'
L186	N01°33'44"E	180.63'
L187	N88°26'16"W	18.65'
L188	N01°33'44"E	38.54'
L189	N88°26'16"W	5.49'

CURVE TABLE					
NO.	DELTA	RADIUS	LENGTH	CHORD BEARING	CHORD
C1	25°53'47"	15.00'	6.78'	N75°29'22"W	6.72'
C2	80°08'47"	45.00'	62.95'	S51°29'19"W	57.94'
C3	90°00'04"	15.00'	23.56'	S43°26'14"E	21.21'
C4	75°48'27"	15.00'	19.85'	S39°27'58"W	18.43'
C5	22°50'16"	56.00'	22.32'	N12°58'52"E	22.17'
C6	90°00'00"	10.00'	15.71'	N46°33'44"E	14.14'
C7	25°19'56"	15.00'	6.63'	N14°13'42"E	6.58'
C8	66°36'56"	8.00'	9.30'	N53°29'30"W	8.79'
C9	46°06'04"	173.48'	139.58'	N21°29'18"W	135.85'
C10	43°53'56"	30.00'	22.99'	N66°29'18"W	22.43'
C12	89°59'29"	30.00'	47.12'	S46°34'00"W	42.42'
C14	25°50'31"	20.00'	9.02'	S11°21'31"E	8.94'
C16	60°03'19"	56.03'	58.73'	S32°32'54"W	56.07'
C17	11°38'05"	55.00'	11.17'	S56°45'58"W	11.15'
C18	68°42'38"	8.00'	9.59'	N55°33'56"E	9.03'
C19	17°32'52"	82.00'	25.11'	N12°26'12"E	25.02'
C22	90°00'00"	45.00'	70.69'	N46°33'44"E	63.64'
C24	47°26'43"	55.51'	45.97'	S66°35'08"E	44.67'
C25	16°05'03"	197.48'	55.44'	S36°41'29"E	55.25'
C26	106°05'52"	30.00'	55.55'	S81°41'54"E	47.95'
C27	12°51'23"	56.00'	12.57'	N61°42'56"W	12.54'
C28	69°42'22"	30.00'	36.50'	N33°17'27"W	34.29'
C30	8°25'55"	197.48'	29.06'	N02°39'13"W	29.04'
C31	79°19'07"	30.00'	41.53'	N32°47'22"E	38.29'
C32	15°36'34"	54.00'	14.71'	N64°38'38"E	14.67'
C33	22°50'16"	30.00'	11.96'	N12°58'52"E	11.88'
C34	22°50'16"	56.00'	22.32'	N12°58'52"E	22.17'
C35	126°06'53"	10.00'	22.01'	N64°37'11"E	17.83'
C36	90°00'00"	20.00'	31.42'	S43°26'16"E	28.28'
C37	35°33'00"	20.00'	12.41'	S73°47'14"W	12.21'
C44	79°13'13"	15.00'	20.74'	N84°52'36"E	19.13'
C46	43°42'15"	30.00'	22.88'	N23°24'52"E	22.33'
C48	58°38'17"	17.00'	17.40'	N27°45'24"W	16.65'
C50	78°34'55"	25.00'	34.29'	S40°51'12"W	31.66'
C52	43°42'15"	54.00'	41.19'	S23°24'52"W	40.20'
C54	79°25'24"	15.00'	20.79'	S05°33'17"W	19.17'
C72	37°08'58"	76.36'	49.51'	N31°31'48"E	48.65'
C82	36°46'21"	68.36'	43.87'	N31°33'21"W	43.12'
C83	27°43'17"	76.36'	36.95'	N33°07'26"W	36.59'
C87	30°42'32"	68.36'	36.64'	N29°46'35"E	36.20'
C88	9°25'22"	30.00'	4.93'	N40°32'29"E	4.93'

Conformed Copy
Official Public Records
John F. Warren, County Clerk
Dallas County, TEXAS
08/11/2010 01:34:05 PM
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THE COUNTY OF DALLAS STATE OF TEXAS

[illegible]

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RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

NOTES

1. The bearing system for this plat is based on grid north of the Texas Coordinate System of 1983 resulting in a bearing of North 01°33'44" East, for the east right-of-way line of Addison Road.
2. All easements are by this plat unless otherwise noted.
3. This plat is subject to restrictions contained in deeds recorded in Volume 79119, Page 2604, Volume 78243, Page 191, and Volume 81101, Page 2295, all of the Deed Records of Dallas County, Texas.

OWNER
MHSS-ADDISON, LP
8343 DOUGLAS AVENUE, SUITE 350
DALLAS, TX, 75225
TEL: (972) 499-6302

FINAL PLAT
MHS ADDITION
LOT 1 & LOT 2, BLOCK A
ELI SHEPARD SURVEY, ABSTRACT NO. 1361
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

Kimley-Horn and Associates, Inc.
12700 Park Central Drive, Suite 1800
Dallas, Texas 75251
Tel. No. (972) 770-1300
Fax No. (972) 239-3820

Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
1" = 30'	SRD	DAB	APRIL 2009	069302500	2 OF 2

DWG NAME: K:\DAL_SURVEY_FRISCO SURVEY FILES\FRI_SURVEY\069302500 MHSS_LDD 069302500 MHSS\DWG\069302500 MHSS PLAT.DWG PLOTTED BY DUNN, STACY 8/4/2010 8:04 AM LAST SAVED 8/4/2010 8:02 AM

GENERAL NOTES:

1. ALL CONSTRUCTION WITHIN THE ADDISON TOWN LIMITS SHALL BE IN ACCORDANCE WITH THESE PLANS AND THE TOWN OF ADDISON DEVELOPMENT SERVICES' "STANDARD CONSTRUCTION DETAILS". TOWN OF ADDISON STANDARDS GOVERN OVER NCTCOG IN THE EVENT OF A CONFLICT. ALL CONSTRUCTION WITHIN THE DALLAS CITY LIMITS SHALL BE IN ACCORDANCE WITH CITY OF DALLAS CONSTRUCTION STANDARDS AS SPECIFIED IN FILE 251D-1.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OFFSITE OF ANY EXISTING PAVING AND STRUCTURES REMOVED.
4. BEFORE STARTING CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WHERE PROPOSED UTILITIES ARE BEING CONNECTED. THE LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS WAS TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY CONTRACTOR. IT SHALL BE THE DUTY AND RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A DISCREPANCY AND/OR CONFLICT IS DISCOVERED. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES DURING CONSTRUCTION.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE CONSTRUCTION RECORD PLANS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING. WRITTEN APPROVAL WILL BE REQUIRED FROM THE TOWN FOR ANY CHANGES TO PLANS PRIOR TO CONSTRUCTION.
7. WATER AND SEWER SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF ADDISON, TEXAS STANDARDS AND SPECIFICATIONS.
8. ALL EXISTING TRAFFIC AND STREET SIGNS DISTURBED SHALL BE REINSTALLED WHERE APPLICABLE BY THE CONTRACTOR.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING STRUCTURES, UTILITIES, AND SERVICES PRIOR TO EXCAVATION AND CONSTRUCTION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANIES FOR THE RELOCATION OF ANY EXISTING UTILITIES.
11. CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES.
12. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS SHOWN ON THE PLANS AND REVIEW ALL FIELD CONDITIONS, INCLUDING EXISTING GRADES AND UTILITY FLOW LINES, AND SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
13. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES DUE TO HIS CONSTRUCTION ACTIVITIES AT NO COST TO THE OWNER.
14. ALL EXISTING SHRUBS, TREES, PLANTING, AND OTHER VEGETATION, OUTSIDE OF PROPERTY LIMITS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
15. THE CONTRACTOR SHALL CONSTRUCT SILT SCREENS OR OTHER APPROVED DEVICES PRIOR TO CONSTRUCTION TO PREVENT ADVERSE OFF SITE IMPACT OF STORM WATER QUALITY, AS REQUIRED BY THE TOWN OF ADDISON, TEXAS. CONTRACTOR IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE REQUIRED EROSION CONTROL DEVICES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. THE EROSION CONTROL DEVICES SHOULD REMAIN IN PLACE, WHERE PRACTICAL, UPON COMPLETION OF CONSTRUCTION.
16. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS OFFSITE FROM THE EXISTING ROADWAYS AND PROJECT SITE THAT ARE A RESULT OF THE PROPOSED CONSTRUCTION AS REQUESTED BY THE TOWN OF ADDISON, TEXAS. AS A MINIMUM, THIS TASK SHOULD OCCUR ONCE A WEEK.
17. CONNECTIONS TO EXISTING FACILITIES SHALL BE ACCOMPLISHED IN A NEAT AND PROFESSIONAL MANNER. WHEN FIELD CONDITIONS INDICATE ANY VARIANCE FROM DETAILED METHODS, THE CONTRACTOR SHALL PROVIDE COMPREHENSIVE AND DETAILED DRAWINGS (FOR APPROVAL) OF METHODS PROPOSED.
18. WATER SHALL NOT BE PERMITTED IN OPEN TRENCHES DURING CONSTRUCTION.
19. CONTRACTOR SHALL CONTACT THE TOWN ENGINEERING DEPARTMENT'S INSPECTOR ASSIGNED TO THIS PROJECT AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION.
20. CONTRACTOR IS RESPONSIBLE FOR GRASSING DISTURBED AREAS FROM BACK OF CURB TO THE RIGHT-OF-WAY AND AREAS OTHERWISE SPECIFIED ON THE PLANS.
21. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP WITH A MIN. ALLOWABLE STRENGTH OF 4,200 PSI.
22. ALL PRIVATE LANDSCAPE AREA DRAINS SHALL BE OF MATERIAL APPROVED BY BOTH ENGINEER AND TOWN OF ADDISON, TEXAS.
23. CONTRACTOR IS TO CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL PRIMARY POINTS OF ACCESS. THIS STABILIZED EXIT SHALL BE CONSTRUCTED PER TOWN DETAILS.
24. ANY WATER OR SANITARY SEWER SERVICE LOCATED OUTSIDE OF A STREET, ALLEY, OR EASEMENT SHALL BE INSTALLED BY A PLUMBER AND BE INSPECTED BY CODE ENFORCEMENT.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A TRENCH SAFETY PLAN TO THE TOWN OF ADDISON, TEXAS PUBLIC WORKS DEPARTMENT AT THE TIME OF THE PRECONSTRUCTION MEETING, OR PRIOR TO BEGINNING CONSTRUCTION OF THESE IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH TOWN STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH. NO OPEN TRENCHES WILL BE ALLOWED OVERNIGHT WITHOUT THE PRIOR SPECIFIC WRITTEN APPROVAL OF THE TOWN OF ADDISON, TEXAS PUBLIC WORKS DEPARTMENT. ONSITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
26. DURING CONSTRUCTION, ALL MATERIAL TESTING SHALL BE COORDINATED WITH THE TOWN OF ADDISON CONSTRUCTION INSPECTOR.
27. CONTRACTOR SHALL CONTACT THE TOWN BUILDING OFFICIAL TO LEARN OF ANY UNUSUAL CONSTRUCTION SEQUENCING REQUIREMENTS THE TOWN MAY REQUIRE.
28. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH TOWN SPECIFICATIONS FOR PAVING CONSTRUCTION, COMPACTION REQUIREMENTS, AND SUBGRADE PREPARATION.
29. CONTRACTOR TO REVIEW DESIGN INTENT OF THESE PLANS AND SUBMIT REQUESTS-FOR-INFORMATION IN A TIMELY MANNER PRIOR TO COMMENCING THAT WORK.
30. REFER TO M.E.P. AND IRRIGATION PLANS FOR SLEEVING REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH FRANCHISE UTILITY COMPANIES FOR SLEEVING REQUIREMENTS PRIOR TO ANY PAVING ACTIVITIES.
31. ALL APPURTENANCES INSTALLED IN PAVEMENT AREAS SHALL BE ADJUSTED AS REQUIRED TO BE FLUSH WITH FINISHED PAVEMENT.
32. THE SCOPE OF WORK OF THIS PROJECT IS TO BE WITHIN 5' OF BUILDING EXCEPT AS NOTED IN THE GRADING NOTES.
33. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR IMPLEMENTING THE TRAFFIC CONTROL PLAN.

STORM DRAINAGE

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND THE TOWN OF ADDISON DEVELOPMENT SERVICES' "STANDARD CONSTRUCTION DETAILS". TOWN OF ADDISON STANDARDS GOVERN OVER NCTCOG IN THE EVENT OF A CONFLICT.
2. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
3. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND TOWN) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION REQUIREMENTS. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
4. THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES.
5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE TRENCH SAFETY DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A TRENCH EXCAVATION PROTECTION PLAN, SEALED BY AN ENGINEER REGISTERED IN THE STATE OF TEXAS, FOR ALL TRENCHES DEEPER THAN FIVE (5) FEET.
6. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.

STORM DRAINAGE (CONTINUED)

7. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
8. THE INSPECTOR SHALL INSPECT ALL "PUBLIC" CONSTRUCTION. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
9. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
10. ALL PVC TO RCP CONNECTIONS SHALL BE CONSTRUCTED WITH CONCRETE COLLARS.
11. ALL OFFSITE STORM SEWER LINES SHALL BE MINIMUM CLASS III RCP. ONSITE STORM SEWER LINES 18" AND GREATER MAY BE CLASS III RCP. ALL PRIVATE STORM SHALL BE NOTED AS ON PLANS. CONTRACTOR TO CONTACT ENGINEER WITH QUESTIONS ABOUT PIPE MATERIAL PRIOR TO ORDERING. IF USING HDPE, CONTRACTOR SHALL SUBMIT TECHNICAL DATA TO PROJECT ENGINEER AND TOWN ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIAL.
12. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR NORTH CENTRAL TEXAS, LATEST EDITION, AND ANY SPECIAL PROVISION AS APPROVED BY THE TOWN OF ADDISON, TEXAS.
13. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FOR ALL STORM SEWER LINES AND OTHER UTILITIES.
14. EMBEDMENT FOR ALL ONSITE SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER TOWN OF ADDISON, TEXAS STANDARD DETAILS.
15. REFER TO TNRCC/TCEQ DESIGN GUIDELINES (CHAPTER 290) FOR ALL UTILITY CROSSINGS.

GRADING

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND THE TOWN OF ADDISON DEVELOPMENT SERVICES' "STANDARD CONSTRUCTION DETAILS" AND THE FINAL GEOTECHNICAL REPORT. TOWN OF ADDISON STANDARDS GOVERN OVER NCTCOG IN THE EVENT OF A CONFLICT.
2. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREAS REFLECT TOP OF PAVEMENT SURFACE. ADD .50' TO PAVING GRADE FOR TOP OF CURB GRADE. THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF PAVEMENT.
3. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
4. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND TOWN) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION REQUIREMENTS. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION. CONTRACTOR IS RESPONSIBLE FOR FILING N.O.I. AND N.O.T. WITH THE TNRCC. CONTRACTOR SOLELY RESPONSIBLE FOR ALL MANDATED SWPPP RECORD KEEPING AND REPORTING.
5. SEE STRUCTURAL SPECIFICATIONS FOR BUILDING PAD DETAILS. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE TOWN AND ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
6. ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR AT HIS EXPENSE.
7. BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
8. THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. THAT ARE TO REMAIN OR BE RELOCATED DURING ALL CONSTRUCTION PHASES.
9. REFERENCE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND GEOTECHNICAL REPORT FOR BUILDING PAD AND PAVING SUBGRADE INFORMATION.
10. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
11. GRADING CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
12. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LABORATORY AND THE PAYMENTS FOR SUCH TESTING SERVICES SHALL BE MADE BY THE CONTRACTOR. THE OWNER SHALL APPROVE THE LABORATORY NOMINATED TO DO THE TESTING OF MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE TOWN'S SPECIFICATIONS AND THESE PLANS.
13. CONTRACTOR SHALL CALL 1-800-DIG-TESS AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION FOR FIELD LOCATIONS OF UTILITIES IN THE VICINITY OF THE SITE.
14. PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN CASE OF DISCREPANCY.
15. REFER TO SITE PLAN AND FINAL PLAT FOR HORIZONTAL DIMENSIONS.
16. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.
17. REFER TO EROSION CONTROL PLAN FOR EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
18. NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S REPRESENTATIVE. EXISTING TREES SHALL BE PRESERVED WHENEVER POSSIBLE.
19. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO COMMENCING CONSTRUCTION AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE CONSTRUCTION COMMENCES.
20. AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.

PAVING

1. ALL CONSTRUCTION WITHIN THE ADDISON TOWN LIMITS SHALL BE IN ACCORDANCE WITH THESE PLANS AND THE TOWN OF ADDISON DEVELOPMENT SERVICES' "STANDARD CONSTRUCTION DETAILS". TOWN OF ADDISON STANDARDS GOVERN OVER NCTCOG IN THE EVENT OF A CONFLICT. ALL CONSTRUCTION WITHIN THE DALLAS CITY LIMITS SHALL BE IN ACCORDANCE WITH CITY OF DALLAS CONSTRUCTION STANDARDS AS SPECIFIED IN FILE 251D-1.
2. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
3. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND TOWN) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
4. ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR AT HIS EXPENSE.
5. BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
6. THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. THAT ARE TO REMAIN OR BE RELOCATED DURING ALL CONSTRUCTION PHASES.

PAVING (CONTINUED)

7. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS (REFER TO GEOTECHNICAL REPORT BY ALPHA TESTING, REPORT NO. G090336 DATED APRIL 23, 2009). THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
8. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LABORATORY AND THE PAVEMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE CONTRACTOR. THE OWNER SHALL APPROVE THE LABORATORY NOMINATED TO DO THE TESTING OF MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE TOWN'S SPECIFICATIONS AND THESE PLANS.
9. BARRIER FREE RAMPS SHALL BE CONSTRUCTED AT ALL DRIVEWAY APPROACHES PER TOWN STANDARDS. RAMPS SHALL MEET ALL ADA AND TAS REQUIREMENTS.
10. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
11. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT FOR PAVEMENT MARKINGS SHALL ADHERE TO SECTION 2.9 OF THE N.C.T.C.O.G. STANDARD SPECIFICATIONS UNDER "TRAFFIC PAINT".
12. REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN.
13. REFER TO GEOTECHNICAL REPORT FOR REINFORCEMENT STEEL.
14. FIRE LANES SHALL BE DESIGNATED BY CONTINUOUS PAINTED LINES FOUR (4) INCHES IN WIDTH ON EACH SIDE OF THE FIRE LANE STARTING AT THE ENTRANCE FROM THE STREET AND TO BE CONTINUED TO THE EXIT. SUCH LINES SHALL BE BRIGHT RED IN COLOR.
15. FIRE LANES ADJACENT TO CURBS SHALL BE OUTLINED BY A FOUR (4) INCH WIDE STRIP PAINTED BRIGHT RED IN COLOR ALONG THE CURB'S GUTTER LINE.
16. THE WORDS "FIRE LANE" AND "NO PARKING" SHALL BE STENCILED IN FOUR (4) INCH HIGH WHITE LETTERS ALTERNATELY EVERY FIFTEEN (15) FEET ALONG THE RED FIRE LANE STRIPES.
17. ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 1990.
18. ACCESSIBLE PEDESTRIAN ROUTES ON PUBLIC RIGHTS-OF-WAY AND PRIVATE PROPERTY SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND TEXAS ACCESSIBILITY STANDARDS (TAS). DESIGN AND CONSTRUCTION OF ALL CURB RAMPS ON PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION STANDARD DETAIL PED-05, SHEETS 1 THROUGH 4.
19. REFERENCE LANDSCAPE PLANS FOR LOCATION AND TYPE OF HANDICAP RAMPS TO BE PROVIDED AND FOR FLATWORK.
20. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR NORTH CENTRAL TEXAS, LATEST EDITION, AND ANY SPECIAL PROVISION AS APPROVED BY THE TOWN OF ADDISON, TEXAS.
21. SIDEWALKS ADJACENT TO CURB SHALL BE CONNECTED TO BACK OF CURB USING LONGITUDINAL BUTT JOINT.
22. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE LOCATED OUT OF THE PEDESTRIAN AND AUTOMOBILE ROUTES AND SHALL BE LOCATED BETWEEN THREE TO FIVE FEET BEHIND THE NEAREST BACK OF CURB. SIGN HEIGHT, LOCATION, AND STRUCTURE SHALL BE SUCH THAT THE SIGNS POSE NO THREAT TO PUBLIC SAFETY.
23. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED, FIELD ADJUSTMENTS OF LOCATION AND ORIENTATION OF THE SIGNS ARE TO BE MADE TO ACCOMPLISH THIS.
24. CONTRACTOR RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, AND ARCHITECT) SHALL BE CONSULTED.
25. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE HANDICAPPED ROUTES (PER A.D.A. & T.A.S) EXIST TO AND FROM EVERY DOOR. IN NO CASE SHALL HANDICAP RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5.0 PERCENT. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A. AND T.A.S. COMPLIANCE ISSUES.
26. REFER TO GEOTECHNICAL REPORT FOR SOIL COMPACTION SPECIFICATION.

WATER AND SANITARY

1. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE REQUIREMENTS SET FORTH IN THE TOWN OF ADDISON, TEXAS "WATER SYSTEM REQUIREMENTS" MANUAL FOR GENERAL PROCEDURES FOR THE DESIGN OF WATER LINES.
2. IN THE EVENT AN ITEM IS NOT COVERED BY THIS MANUAL, THEN THE N.T.C.O.G. GENERAL SPECIFICATIONS COVERING SUCH ITEMS SHALL APPLY.
3. WATER MAINS SHALL BE PVC C-900, PER TOWN STANDARD, EXCEPT WHEN OTHERWISE NOTED.
4. SEWER PIPE SHALL BE MINIMUM SDR 35 PVC OR PVC SDR 26.
5. WATER MAINS SHALL HAVE THE FOLLOWING MINIMUM COVER BELOW STREET GRADES:

SIZE	COVER
6"	3.5'
8"	4.0'
10"	4.0'
12"	5.0'
LARGER	AS SHOWN ON PLANS

6. PLASTIC TAPE FOR UTILITY SERVICES SHALL BE ATTACHED TO THE ENDS OF ALL WATER AND SEWER SERVICE LINES AND EXTEND ABOVE GROUND LEVEL. THE TAPE SHALL MEET THE FOLLOWING SPECIFICATION:
   A. "ALLEN MARKING TAPE" OR APPROVED EQUAL.
   B. ROLL MARKED CONTINUOUSLY, "CAUTION WATER LINE" OR "CAUTION SEWER LINE".
   C. SIX (6) INCHES IN WIDTH.
   D. GREEN TAPE FOR SEWER SERVICES.
   E. BLUE TAPE FOR WATER SERVICES.
7. ALL FIRE HYDRANTS SHALL BE FURNISHED WITH ONE (1) "AG-45 4-1/2" N.S.T. HYDRANT COMPONENT" AS MANUFACTURED BY HYDRA-LOK, INC., OR EQUAL, APPROVED BY TOWN OF ADDISON, TEXAS. THE TOWN OF ADDISON WILL REQUIRE A SUBMITTAL FOR ANY PROPOSED EQUAL PRODUCT. REFER TO TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
8. VIDEO TAPE OF SEWER LINE TO BE PROVIDED TO DIRECTOR OF PUBLIC SERVICES, BY THE CONTRACTOR.
9. FIRE HYDRANTS SHALL BE LOCATED BETWEEN 3' AND 6' FROM THE BACK OF CURB.
10. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXACT LOCATIONS OF EXISTING PUBLIC AND PRIVATE UTILITIES AND SERVICES PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL CALL 1-800-DIG-TESS FOR FIELD LOCATION OF EXISTING UTILITIES. CALL AT LEAST 48 HOURS BEFORE LOCATIONS ARE NEEDED. NOTE THAT THE DIG TESS SERVICE DOES NOT LOCATE ALL UTILITIES, ONLY THOSE REGISTERED WITH THE SERVICE.
11. REFER TO SITE GRADING PLANS, PAVING PLANS, AND LANDSCAPE PLANS FOR FINAL GRADES FOR DETERMINING PROPOSED MANHOLE RIM ELEVATIONS.
12. LOCATIONS AND SIZES OF EXISTING PUBLIC AND PRIVATE UTILITIES SHOWN ON THESE PLANS ARE FROM TOWN AND UTILITY COMPANY RECORDS ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING ALL UTILITIES AND FOR DAMAGES RESULTING FROM FAILURE TO DO SO.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD" PLANS TO THE ENGINEER SHOWING THE LOCATION OF WATER AND SEWER SERVICES AND ANY DEVIATIONS FROM PLANS MADE DURING CONSTRUCTION.
14. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN, COORDINATING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY SERVICES ENTERING THE BUILDING AND/OR CROSSING OTHER UTILITIES.
15. ALL WATER AND SANITARY SEWER SERVICES SHALL TERMINATE FIVE (5) FEET OUTSIDE THE BUILDING, UNLESS NOTED OTHERWISE.
16. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE UTILITIES. ALL PUBLIC PIPE, STRUCTURES, AND FITTINGS SHALL BE INSPECTED BY THE TOWN INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING DISINFECTION AND PRESSURE TESTING OF ALL MAINS. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
17. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE TRENCH SAFETY DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A TRENCH EXCAVATION PROTECTION PLAN, SEALED BY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF TEXAS, FOR ALL TRENCHES DEEPER THAN FIVE (5) FEET.
18. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR NORTH CENTRAL TEXAS, LATEST EDITION, AND ANY SPECIAL PROVISION AS APPROVED BY THE TOWN OF ADDISON, TEXAS.
19. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FOR ALL WATER AND SANITARY SEWER LINES AND OTHER UTILITIES.
20. REFER TO TNRCC/TCEQ DESIGN GUIDELINES (CHAPTER 290) FOR ALL UTILITY CROSSINGS.

KHA GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (LATEST EDITION), THE TOWN OF ADDISON STANDARDS, AND ANY SPECIAL PROVISIONS ADOPTED BY THE TOWN OF ADDISON, THE SUBDIVISION RULES AND REGULATIONS OF THE TOWN OF ADDISON (LATEST EDITION), THE PROJECT SPECIFICATION BOOK, AND THESE CONSTRUCTION PLANS. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE OWNER AND ENGINEER SHALL BE CONTACTED PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.
3. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE CITY. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. THE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS AND BONDS PRIOR TO CONSTRUCTION.
6. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE TOWN, ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE CITY AND NOTIFICATION TO THE ARCHITECT AND THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE TOWN, ENGINEER, AND OWNER WAS NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM. WRITTEN APPROVAL WILL BE REQUIRED FROM THE TOWN FOR ANY CHANGES TO PLANS PRIOR TO CONSTRUCTION.
7. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
8. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUMS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS.
9. EXISTING CONTOURS AS SHOWN ON THIS PLAN WERE TAKEN FROM A FIELD TOPOGRAPHIC SURVEY PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC.
10. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
11. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ADJUSTMENTS, RELOCATIONS AND INSTALLATIONS OF FRANCHISE UTILITIES NECESSARY FOR ON-SITE AND OFF-SITE CONSTRUCTION.
12. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION FIELD STAKING AND TESTING, UNLESS SPECIFIED OTHERWISE BY THE OWNER.
13. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL REPLACE ANY FENCING, CURBING, ETC. THAT IS DESTROYED DUE TO THE CONSTRUCTION ACTIVITIES.
14. TRENCH SAFETY DESIGN WILL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN (SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS) TO THE TOWN OF ADDISON PUBLIC WORKS DEPARTMENT FOR REVIEW PRIOR TO THE START OF ANY UTILITY CONSTRUCTION.
15. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS ONTO DEVELOPED OR UNDEVELOPED AREAS WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
16. LIGHT POLES AND SIGNS SHALL NOT BE PLACED IN ADA ACCESSIBLE ROUTES OR ACCESSIBLE ACCESS AISLES.
17. ALL AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REGRADED AND LANDSCAPED OR PAVED (TO WHATEVER CONDITION EXISTED BEFORE DISTURBANCE). ALL DISTURBED AREAS SHALL BE REPAIRED TO THE SAME OR BETTER CONDITION THAN BEFORE AREA WAS DISTURBED.
18. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, AND EROSION CONTROL PLANS AND INSPECTION REPORTS (SWPPP).
19. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONTOURS SHOWN ON THE PLANS AND ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH THE CONSTRUCTION.
20. PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN REFLECT FINISH SURFACE. THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF PAVEMENT.
21. CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES.
22. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
23. CONTRACTOR TO DISPOSE OF ALL EXCESS EXCAVATION MATERIALS AS DIRECTED BY THE OWNER.
24. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR AT HIS EXPENSE.
25. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
26. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
27. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60, AND SHALL BE SUPPORTED BY BAR CHAIRS.
28. WATER LINES CROSSING STORM SEWER LINES AND SANITARY SEWER LINES SHALL BE IN CONFORMANCE WITH ALL TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) SPECIFICATIONS.
29. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE UTILITIES. ALL PUBLIC PIPE STRUCTURES AND FITTINGS SHALL BE INSPECTED BY THE CITY INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING DISINFECTION AND PRESSURE TESTING OF ALL MAINS. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES. AS AN ALTERNATE, THE OWNER RESERVES THE RIGHT TO PAY THE INSPECTION FEES DIRECTLY TO THE CITY.
30. ALL FIRE HYDRANTS, FITTINGS, VALVES, AND PIPE ENDS SHALL BE BLOCKED WITH CONCRETE PER CITY STANDARDS.
31. TOP RIM ELEVATIONS OF ALL SANITARY SEWER MANHOLES SHALL BE COORDINATED WITH TOP OF PAVEMENT OR FINISHED GRADE.
32. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
33. CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH, FLUSH, CONNECTION.
34. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES DUE TO HIS CONSTRUCTION ACTIVITIES AT NO COST TO THE OWNER.
35. CONTRACTOR TO ADJUST ALL GATE VALVE COVERS TO MATCH PROPOSED PAVING GRADES.
36. THE OPERATING NUT OF ALL GATE VALVES SHALL BE 2 FEET BELOW FINISH GRADE (MINIMUM).

KHA GENERAL CONSTRUCTION NOTES (CONTINUED)

36. THESE PLANS, PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC. DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS.
37. REFER TO SWPPP REPORT AND EROSION CONTROL PLANS FOR APPLICABLE NOTES.
38. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
39. REFER TO ARCHITECTURAL PLANS FOR DETAILED BUILDING ENTRANCE LAYOUTS, RAMPS, LANDSCAPE, AND SIDEWALKS.

CITY OF DALLAS GENERAL CONSTRUCTION NOTES

1. ALL MATERIALS AND WORKMANSHIP (WITHIN SOUTHBOUND DALLAS PARKWAY RIGHT-OF-WAY) SHALL CONFORM WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR NORTH CENTRAL TEXAS, LATEST EDITION, AND THE CITY OF DALLAS DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION ADDENDUM.
2. DURING THE CONSTRUCTION OF THESE IMPROVEMENTS (WITHIN SOUTHBOUND DALLAS PARKWAY RIGHT-OF-WAY), ANY INTERPRETATION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR NORTH CENTRAL TEXAS, AND ANY MATTER WHICH REQUIRES THE APPROVAL OF THE OWNER, MUST BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS AND TRANSPORTATION OR HIS DESIGNEE BEFORE ANY CONSTRUCTION INVOLVING THAT DECISION COMMENCES. ASSUMPTIONS ABOUT WHAT THESE DECISIONS MIGHT BE WHICH AREA MADE DURING THE BIDDING PHASE WILL HAVE NO BEARING ON THE DECISION.
3. FOR ADJUSTMENTS OF DALLAS WATER UTILITIES APPURTENANCES OR TO VERIFY LOCATIONS OF EXISTING WATER AND WASTEWATER MAINS IN AREA, CALL (214) 670-1770 AT LEAST (3) THREE WORKING DAYS PRIOR TO CONSTRUCTION.
4. STREETS, ALLEYS, SIDEWALKS, DRIVEWAYS AND STORM DRAINAGE FACILITIES WITHIN SOUTHBOUND DALLAS PARKWAY RIGHT-OF-WAY, SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE CITY OF DALLAS STANDARD CONSTRUCTION DETAILS, FILE 251D-1, LATEST EDITION.
5. ALL CONCRETE FOR PAVEMENT WITHIN SOUTHBOUND DALLAS PARKWAY RIGHT-OF-WAY SHALL BE 4,000 PSI FOR MACHINE FINISH AND 4,500 PSI IF IT IS NECESSARY FOR HAND FINISH.

REFER TO TNRCC/TCEQ DESIGN GUIDELINES (CHAPTER 290) FOR ALL UTILITY CROSSINGS.

STOP!

CALL BEFORE YOU DIG

DIG TESS
1-800-DIG-TESS
(at least 72 hours prior to digging)

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

GEOTECHNICAL REPORT
REPORT N0. G090336
ALPHA TESTING
DALLAS, TEXAS
DATED: APRIL 23, 2009.

UTILITY CONTACTS

ONCOR (ELECTRIC) CONTACT: KAREN EASTMAN	817-335-7050
ATMOS ENERGY (GAS) CONTACT: GEORGE LONG	972-881-4152
AT&T COMMUNICATION (PHONE) CONTACT: STEVEN J. ELLIOT	972-234-7039

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
Tel. No.(972) 335-3580
Fax No.(972) 335-3779
5750 Genesis Court, Suite 200
Frisco, Texas 75034
State of Texas Registration No. F-928

STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED PROFESSIONAL ENGINEER
11/03/09

METHODIST HOSPITAL FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

GENERAL NOTES

Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	11/3/09
Project No.	69302500

SHEET
C-02

IMAGES
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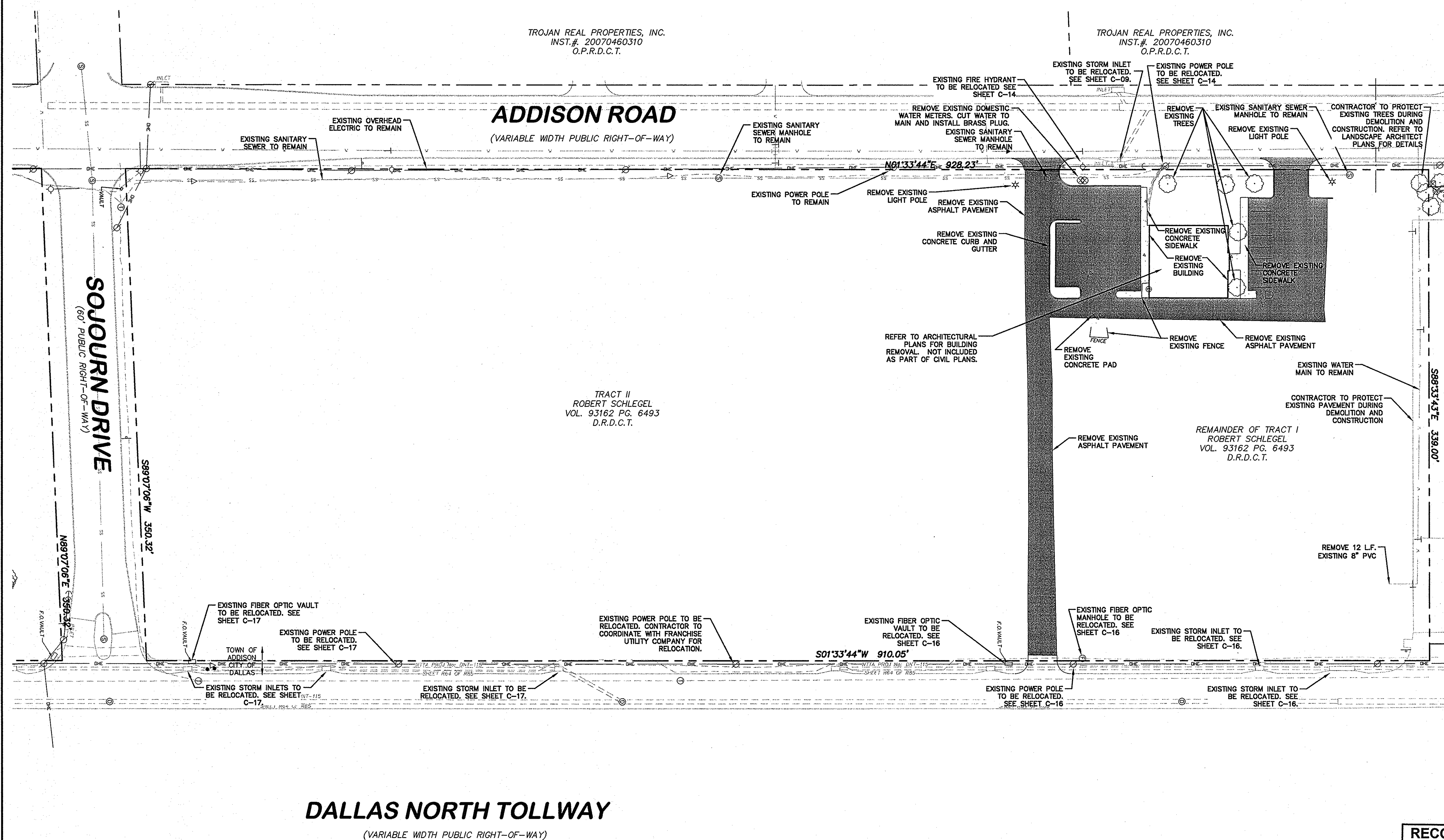
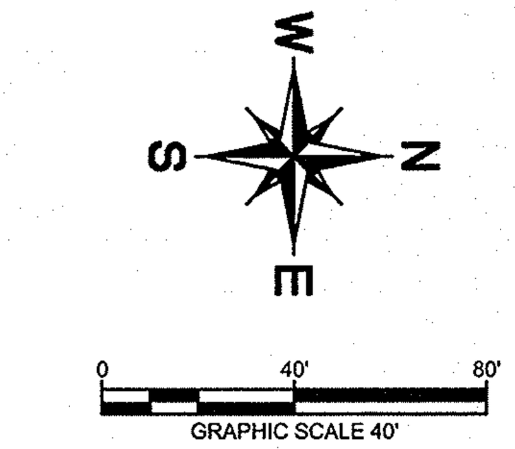
LAST SAVED 11/3/2009 9:37 AM





DEMOLITION NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO DEMOLITION.
2. THE CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES AS NOTED AND SHOWN ON THESE PLANS AND AS DIRECTED BY THE OWNER.
3. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PERMITS AND PAY ANY FEES REQUIRED FOR DEMOLITION AND HAUL-OFF FROM THE APPROPRIATE AUTHORITIES.
4. THE CONTRACTOR SHALL PREPARE ALL DOCUMENTS AND ACQUIRE APPROPRIATE PERMITS AS REQUIRED PRIOR TO THE COMMENCEMENT OF DEMOLITION.
5. THE DEMOLITION PLAN IS INTENDED TO DEPICT GENERAL DEMOLITION AND UTILITY WORK. IT IS NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY PRIOR TO WORK.
6. CONTRACTOR TO COMPLETELY DEMOLISH AND DISPOSE OF OFFSITE IN A LAWFUL MANNER EXISTING BUILDINGS, INCLUDING FOUNDATIONS AND ALL APPURTENANCES LOCATED ON AND AROUND THE PROPERTY INCLUDING BUT NOT LIMITED TO BOLLARDS, GAS METERS, AIR CONDITIONING UNITS, SIGNS, CURBS, SIDEWALKS, ELECTRIC METERS, FENCING, ETC.
7. REMOVE AND DISPOSE OF ANY SIDEWALK, FENCES, STAIRS, WALLS, FOUNDATIONS, CONDUITS, LIGHT POLE BASES, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED LANDFILL.
8. REMOVE AND/OR PLUG EXISTING UTILITIES SUCH AS SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELEPHONE AS SHOWN OR AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH UTILITY COMPANY TO COORDINATE REMOVAL OF ALL UTILITIES AND FOR DETERMINING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO COMMENCING WORK.
9. THE CONTRACTOR SHALL CUT AND PLUG, OR ARRANGE FOR THE APPROPRIATE UTILITY COMPANY TO CUT AND PLUG ALL SERVICE PIPING AT THE STREET LINE OR MAIN, AS REQUIRED, OR AS OTHERWISE NOTED. ALL SERVICES MAY NOT BE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF SERVICE PIPING TO BE REMOVED, CUT OR PLUGGED.
10. THE CONTRACTOR SHALL ARRANGE FOR THE RESETTING OF CURB BOXES, VALVE BOXES AND REMOVAL AND/OR RELOCATION OF OVERHEAD UTILITIES AND POLES WITH THE APPROPRIATE UTILITY COMPANY.
11. INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION PRIOR TO BEGINNING DEMOLITION WORK.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
13. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING ROAD SURFACE.
14. FINISH SURFACE TO BE REMOVED OR DEMOLISHED SHALL BE CUT ALONG LINES OF JOINTS WHICH WILL PERMIT A NEAT SURFACE WHEN RESTORED.
15. ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE SOLE EXPENSE OF THE CONTRACTOR.
16. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
17. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THE AREA.
18. ASBESTOS OR HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR.

NOTE

KIMLEY-HORN AND ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACTS THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE. KIMLEY-HORN AND ASSOCIATES, INC. DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, AND THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING HIS OWN SITE RECONNAISSANCE TO SCOPE HIS WORK AND TO CONFIRM WITH THE OWNERS OF EXISTING IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF PROPOSED DEMOLITION. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. REMOVAL, RELOCATION, OR PRESERVATION OF EXISTING IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.

CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY.

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

FRANCHISE UTILITY CONTACTS

ONCOR (ELECTRIC) CONTACT: KAREN EASTMAN	817-335-7050
ATMOS ENERGY (GAS) CONTACT: GEORGE LONG	972-881-4152
AT&T COMMUNICATION (PHONE) CONTACT: STEVEN J. ELLIOT	972-234-7039

!! WARNING!!

EXISTING UTILITIES IN THE AREA. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH THE PROVIDER PRIOR TO START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WHERE NECESSARY AND PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN). IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT THEIR OWN EXPENSE.

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Tel. No.(972) 335-3580
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STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED PROFESSIONAL ENGINEER
[illegible] 11/03/09

METHODIST HOSPITAL FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

DEMOLITION PLAN

Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	11/3/09
Project No.	69302500

SHEET
C-03

IMAGES
XREFS XREF x2436 - XREF xBndy-Exst - XREF xSite-Exst - XREF xUtil-Exst
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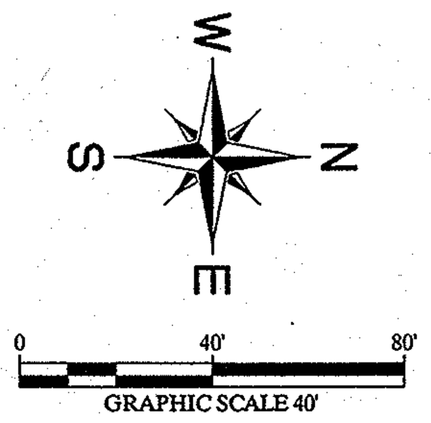
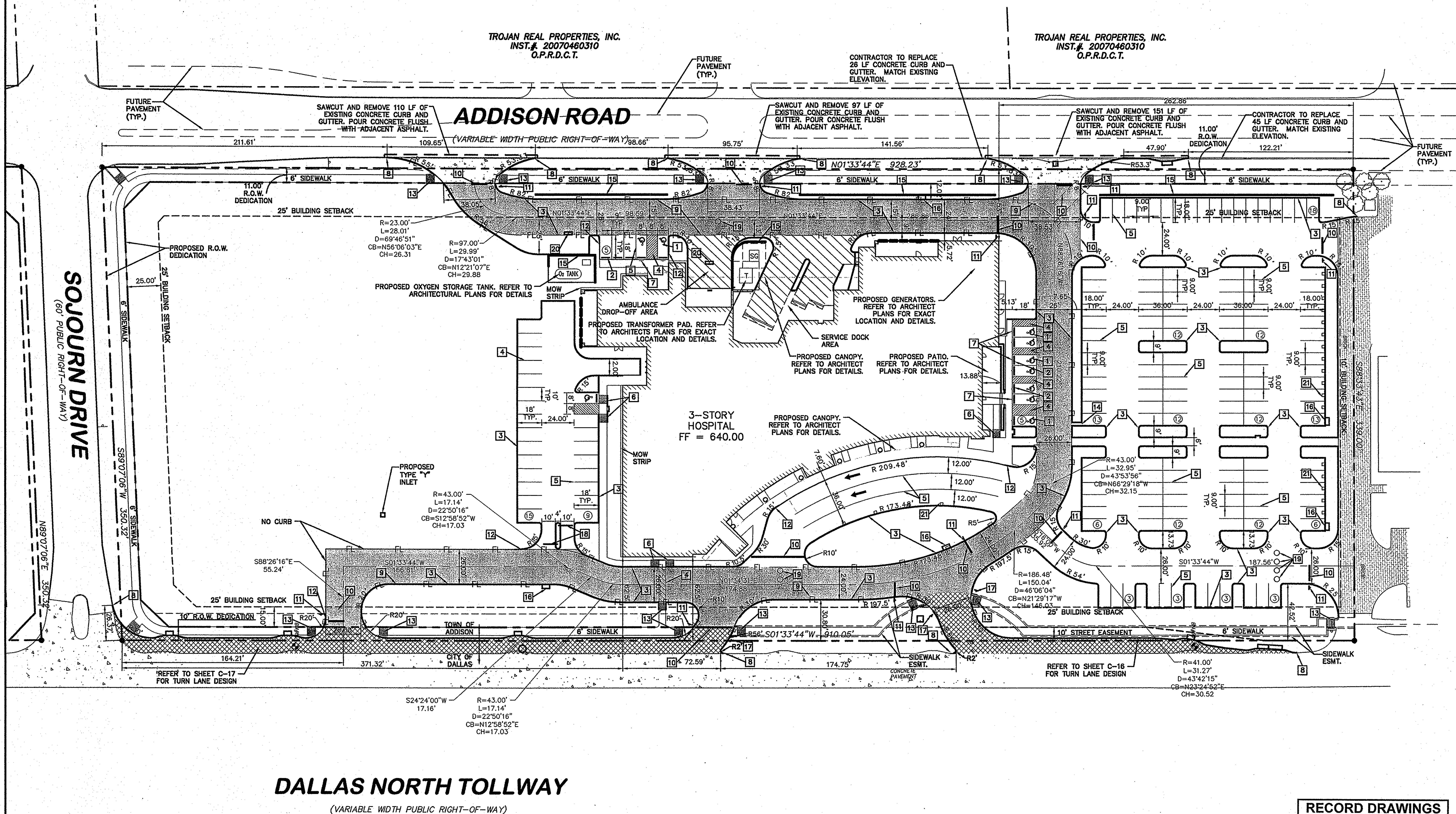
LAST SAVED 11/3/2009 9:36 AM

SITE DATA SUMMARY TABLE

ZONING	PD/SUP
PROPOSED USE	HOSPITAL/32 BEDS
TOTAL LOT AREA	303,741 SF / 6.97 AC
TOTAL BUILDING AREA	107,003 SF / 2.46 AC
BUILDING HEIGHT	3 STORIES
TOTAL OFF-STREET PARKING PROVIDED	173
TOTAL HANDICAP PARKING REQUIRED	6
TOTAL HANDICAP PARKING PROVIDED	11





KEY NOTE LEGEND

1. ACCESSIBLE PARKING SPACE (TYP.)
2. CONCRETE WHEEL STOP (TYP.) SEE SHEET C-22 FOR DETAIL.
3. 6" CURB AND GUTTER. SEE SHEET C-22 FOR DETAIL.
4. REFERENCE LANDSCAPE PLANS FOR DETAILED TRAFFIC STRIPING INFORMATION
5. REFERENCE LANDSCAPE PLANS FOR DETAILED TRAFFIC STRIPING INFORMATION
6. BARRIER FREE RAMP. REFERENCE LANDSCAPE FOR DETAIL.
7. HC SIGNS. SEE SHEET C-22 FOR DETAIL.
8. CONNECT TO EXISTING 6" CONCRETE CURB AND GUTTER.
9. FIRE LANE STRIPING. SEE SHEET C-22 FOR DETAIL.
10. STOP BAR. SEE SHEET C-22 FOR DETAIL ON CONC. PAVE. FOR STOP BAR ON PAVERS, REF. LANDSCAPE PLANS
11. STOP SIGN. SEE SHEET C-22 FOR DETAIL.
12. END 6" CURB AND GUTTER. TRANSITION CURB FROM 6" DOWN TO 0" OVER 6'.
13. BARRIER FREE RAMP WITH 1' FLARES. SEE SHEET C-22 FOR DETAIL.
14. CONCRETE CURB CUT FLUME. SEE SHEET C-22 FOR DETAIL.
15. SCREEN WALL. REFER TO ARCHITECTS PLANS FOR DETAILS AND EXACT LOCATION.
16. PROPOSED CURB INLET
17. DO NOT ENTER SIGN. SEE SHEET C-22 FOR DETAIL.
18. PROPOSED ENTRY GATES-REFERENCE ARCHITECTURAL PLANS FOR DETAILS
19. PROPOSED STORM MANHOLE. SEE SHEET C-09 FOR DETAIL.
20. PROPOSED GRATE INLET
21. PROPOSED PAVER DRAINS. REF. LANDSCAPE PLANS.

LEGEND

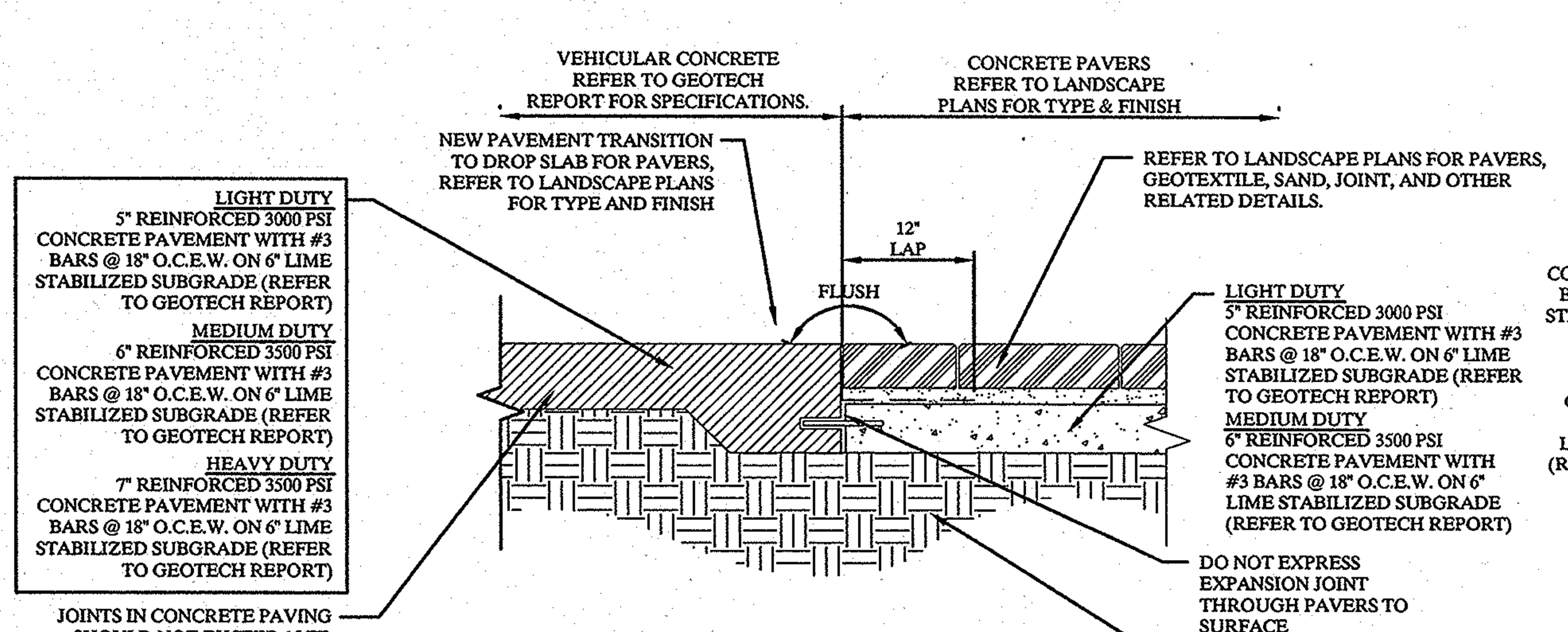
- PROPERTY LINE
- BUILDING SETBACK LINE
- LANDSCAPE SETBACK LINE
- PROPOSED FIRE LANE
- PROPOSED LIGHT DUTY VEHICULAR PAVERS. SEE DETAIL THIS SHEET AND REFER TO LANDSCAPE ARCHITECT PLANS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
- PROPOSED MEDIUM DUTY VEHICULAR PAVERS. SEE DETAIL THIS SHEET AND REFER TO LANDSCAPE ARCHITECT PLANS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
- MEDIUM DUTY 6" REINFORCED 3500 PSI CONCRETE PAVEMENT WITH #3 BARS @ 18" O.C.E.W. ON 6" SCARIFIED SUBGRADE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY AND WITHIN -1% TO +3% OPTIMUM MOISTURE CONTENT.
- HEAVY DUTY 7" REINFORCED 3500 PSI CONCRETE PAVEMENT WITH #3 BARS @ 18" O.C.E.W. ON 6" LIME STABILIZED SUBGRADE (REFER TO GEOTECH REPORT)
- 8" REINFORCED 4000 PSI CONCRETE PAVEMENT WITH #4 BARS @ 18" O.C.E.W. ON 6" LIME STABILIZED SUBGRADE (REFER TO GEOTECH REPORT)
- HEAVY DUTY 10" REINFORCED 4000 PSI CONCRETE PAVEMENT WITH #4 BARS @ 18" O.C.E.W. ON 8" LIME STABILIZED SUBGRADE COMPACTED TO 98% STANDARD PROCTOR DENSITY (REFER TO SHEET C-02, CITY OF DALLAS GENERAL CONSTRUCTION NOTE 5).
- (10) NUMBER OF PARKING SPACES PER ROW
- [12] KEY NOTE

NOTES

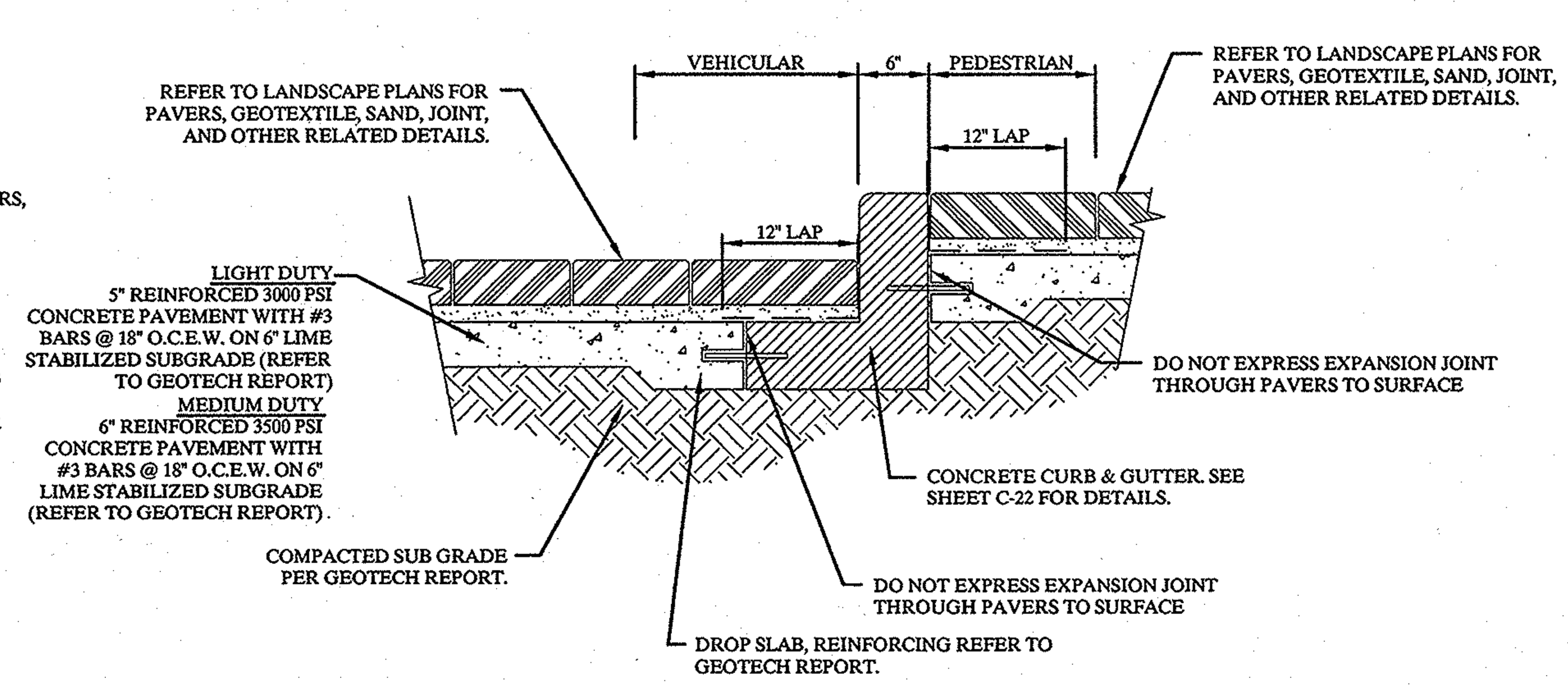
1. ALL DIMENSIONS ARE TO FACE OF CURB, FACE OF BUILDING, OR PROPERTY LINE UNLESS OTHERWISE NOTED.
2. ALL PARKING STALLS SHALL BE 9'x18', UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING FOOTPRINT DIMENSIONS.
4. ALL RADII ARE 2', UNLESS OTHERWISE NOTED.
5. FIRE LANE SHALL BE CONSTRUCTED PER TOWN OF ADDISON FIRE DEPARTMENT STANDARDS AND MARKED PER TOWN SPECIFICATIONS. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
6. PAVEMENT DESIGN DATA SHOWN BY REFERENCE ONLY. PAVEMENT TO BE PER GEOTECH REPORT PROJECT NO. G090336 DATED APRIL 23, 2009 BY ALPHA TESTING.
7. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND FINAL GEOTECH REPORT FOR BUILDING SUB-GRADE PREPARATION REQUIREMENTS.
8. CONTRACTOR TO VERIFY T.A.S COMPLIANCE, FOR ANY QUESTIONS CONTACT CIVIL ENGINEER IMMEDIATELY.
9. CONTRACTOR TO VERIFY ENGINEERING PLANS MATCH ARCHITECTURAL PLANS BEFORE CONSTRUCTION STAKING.
10. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION
11. REFER TO SITE LIGHTING PLANS FOR ALL LIGHTING LOCATIONS, SPECIFICATIONS, AND PHOTOMETRIC DETAILS
12. REFER TO BUILDING ELEVATION PLANS FOR ALL BUILDING SIGNAGE LOCATIONS AND DETAILS.
13. CONTRACTOR SHALL REFER TO M.E.P. AND LANDSCAPE PLANS FOR CONDUIT PLACEMENT PRIOR TO PAVING.
14. CONTRACTOR TO CONSTRUCT 1/2" EXPANSION JOINT WHERE DRIVEWAYS ABUT BUILDING.
15. ALL ACCESSIBLE PATHWAYS SHALL BE BUILT PER ADA STANDARDS, WITH A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM LONGITUDINAL SLOPE OF 5%.
16. JOINTS IN CONCRETE PAVING SHOULD NOT EXCEED 15 FT.

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company



VEHICULAR PAVER DETAIL
N.T.S.



PAVER DETAIL AT CURB
N.T.S.

STOP!
CALL BEFORE YOU DIG
DIG TESS
1-800-DIG-TESS
(@ least 72 hours prior to digging)

BENCHMARK

1. "□" FOUND ON TOP OF THE CONCRETE BASE OF A LIGHT POLE IN THE CENTER MEDIAN OF EXCEL PARKWAY APPROXIMATELY 50 FEET WEST OF THE CENTERLINE OF ADDISON ROAD. (PER TOWN OF ADDISON PLAN # 96103, SHEET 2, DATED JANUARY 1998) ELEV=644.41
2. BM #60"☒" SET ON TOP OF A CONCRETE CURB INLET LOCATED ON THE WEST SIDE OF DALLAS PARKWAY APPROXIMATELY 826 FEET NORTH OF THE CENTERLINE OF SOJOURN DRIVE. ELEV=632.78
3. BM #61"☒" SET ON TOP OF A CONCRETE CURB INLET LOCATED ON THE WEST SIDE OF DALLAS PARKWAY APPROXIMATELY 160 FEET NORTH OF THE CENTERLINE OF SOJOURN DRIVE. ELEV=638.04

THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION . IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE. CALL 1-800-DIG-TESS AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN VICINITY.

No.	Date	Revisions	App.

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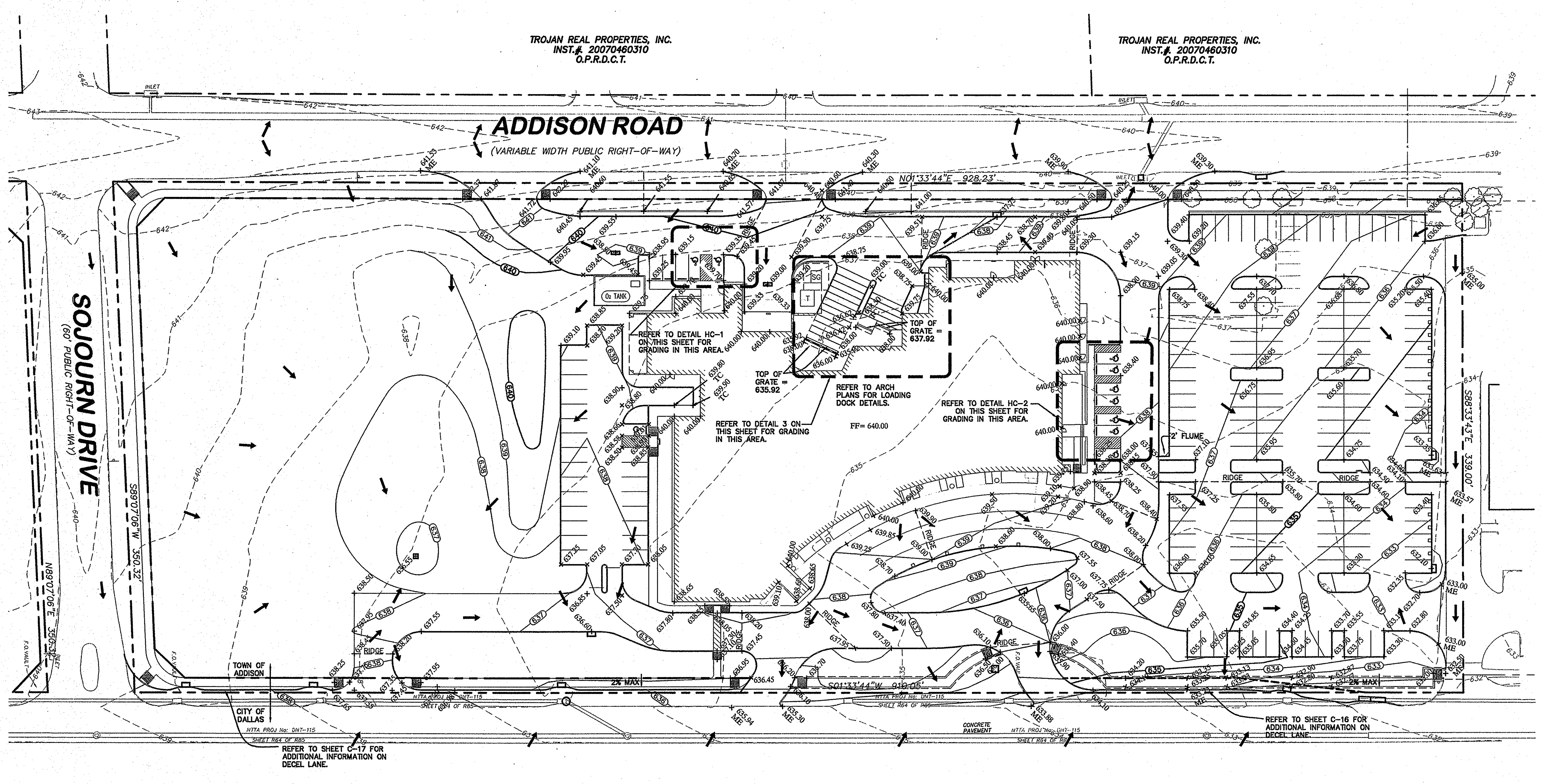
STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED PROFESSIONAL ENGINEER
3/10/10

METHODIST HOSPITAL FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

DIMENSION CONTROL AND PAVING PLAN

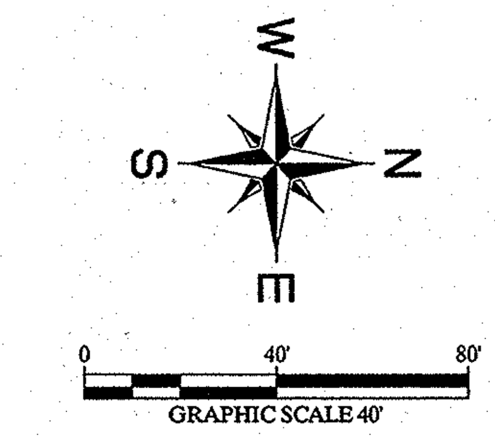
Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	01/05/10
Project No.	69302500

SHEET
C-04



DALLAS NORTH TOLLWAY

(VARIABLE WIDTH PUBLIC RIGHT-OF-WAY)



LEGEND

— — —	PROPERTY LINE
—(694)—	PROPOSED CONTOUR
- - -696- - -	EXISTING CONTOUR
—— > ——	SWALE
— RIDGE —	HIGH POINT
× 694.25	PROPOSED SPOT ELEVATION (TOP OF PAVEMENT)
ME	MATCH EXISTING ELEVATION
→	DIRECTION OF FLOW

GRADING NOTES

1. SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATIONS, UNLESS OTHERWISE NOTED (ADD 0.5' FOR ELEVATION AT TOP OF CURB).
2. CONTRACTOR SHALL REFER TO STRUCTURAL PLANS FOR SUBGRADE PREPARATION SPECIFICATIONS FOR ALL PROPOSED BUILDINGS.
3. ALL FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY. REFER TO PAVING SECTION DETAILS FOR SUBGRADE PREPARATION REQUIREMENTS UNDER ALL PAVED AREAS. (REFER TO GEOTECH REPORT)
4. ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% AND A MAXIMUM CROSS SLOPE OF 2%. IF THE CONTRACTOR IDENTIFIES SLOPES GREATER, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL VERIFY COMPLIANCE WITH TEXAS ACCESSIBILITY STANDARDS (TAS) AND SHALL NOTIFY CIVIL ENGINEER IMMEDIATELY OF ANY CONFLICTS.
6. CONTRACTOR SHALL COORDINATE GRADING AT FACE OF BUILDING WITH PLANS BY ARCHITECT AND SHALL NOTIFY CIVIL ENGINEER IMMEDIATELY OF ANY CONFLICTS.
7. MAXIMUM SLOPES FOR CUT AND FILL ARE BOTH 4:1.
8. ALL VAULTS, METERS, MANHOLE RIMS, CLEANOUTS, FIRE HYDRANT SLABS, ETC. SHALL BE LAID FLUSH WITH THE PROPOSED FLATWORK GRADING.
9. REFERENCE MEP PLANS FOR DETAILED INFORMATION REGARDING EQUIPMENT PADS IN THE MECHANICAL YARDS.

STOP!

CALL BEFORE YOU DIG

DIG TESS

1-800-DIG-TESS

(@ least 72 hours prior to digging)

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BENCHMARK

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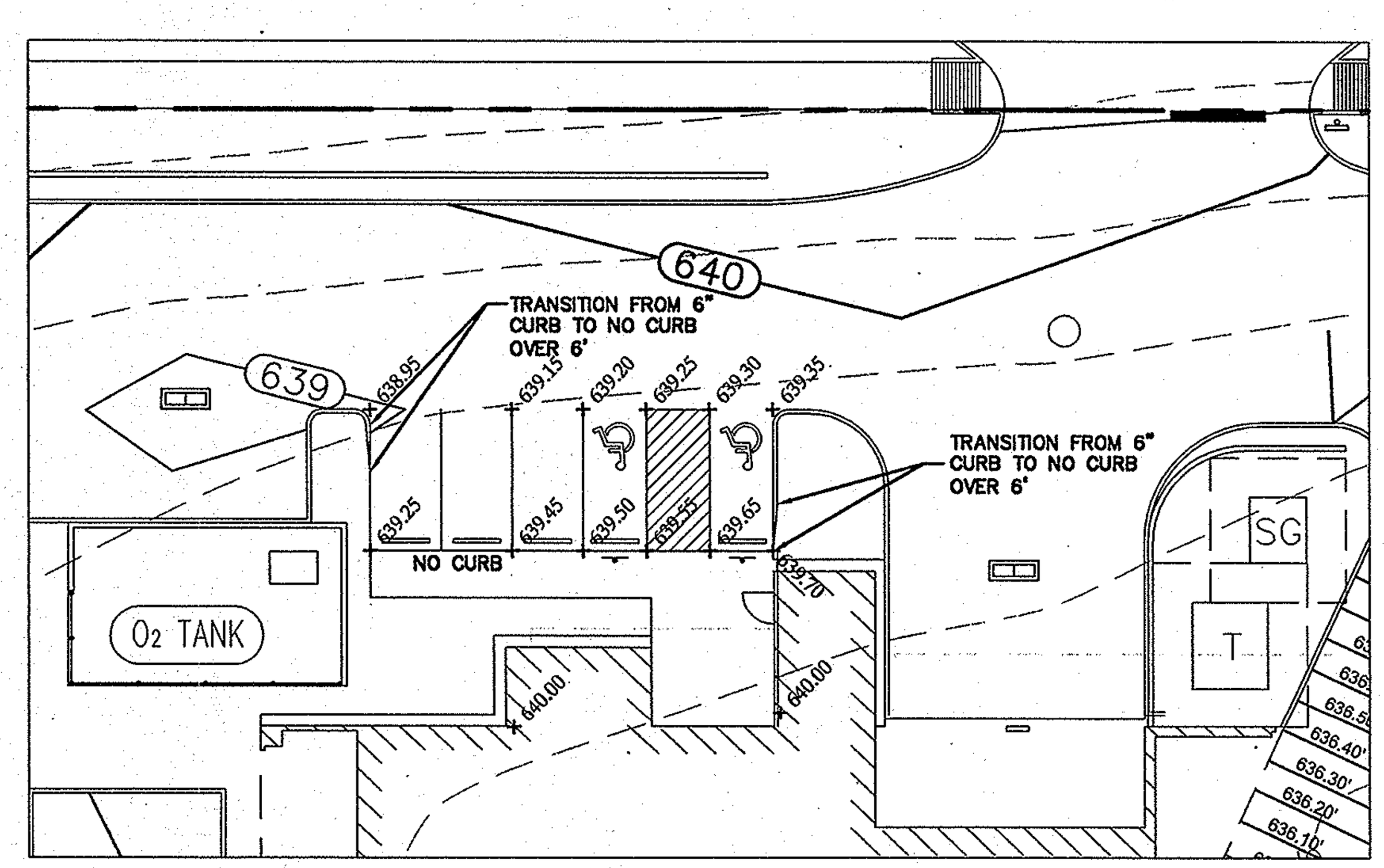
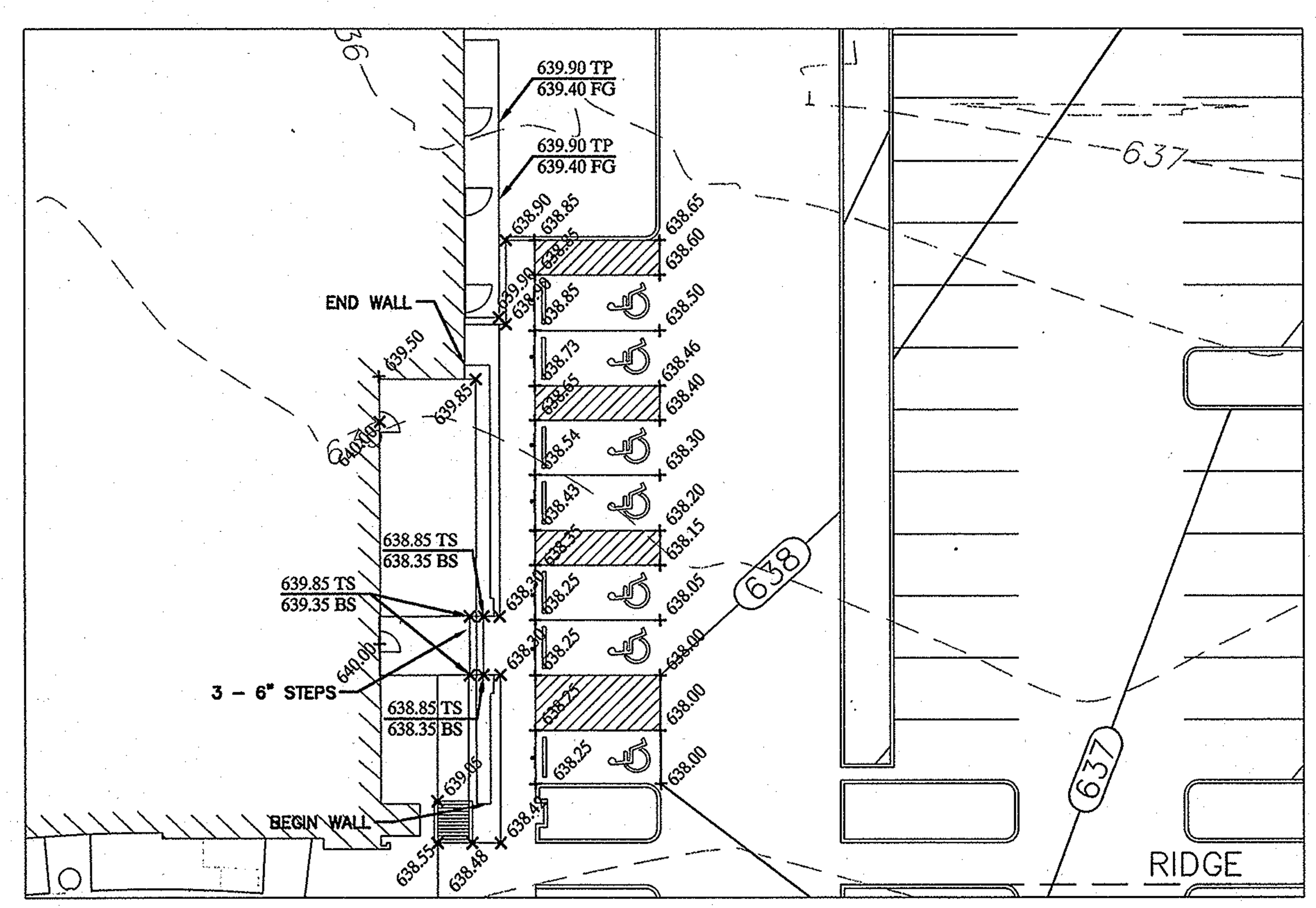
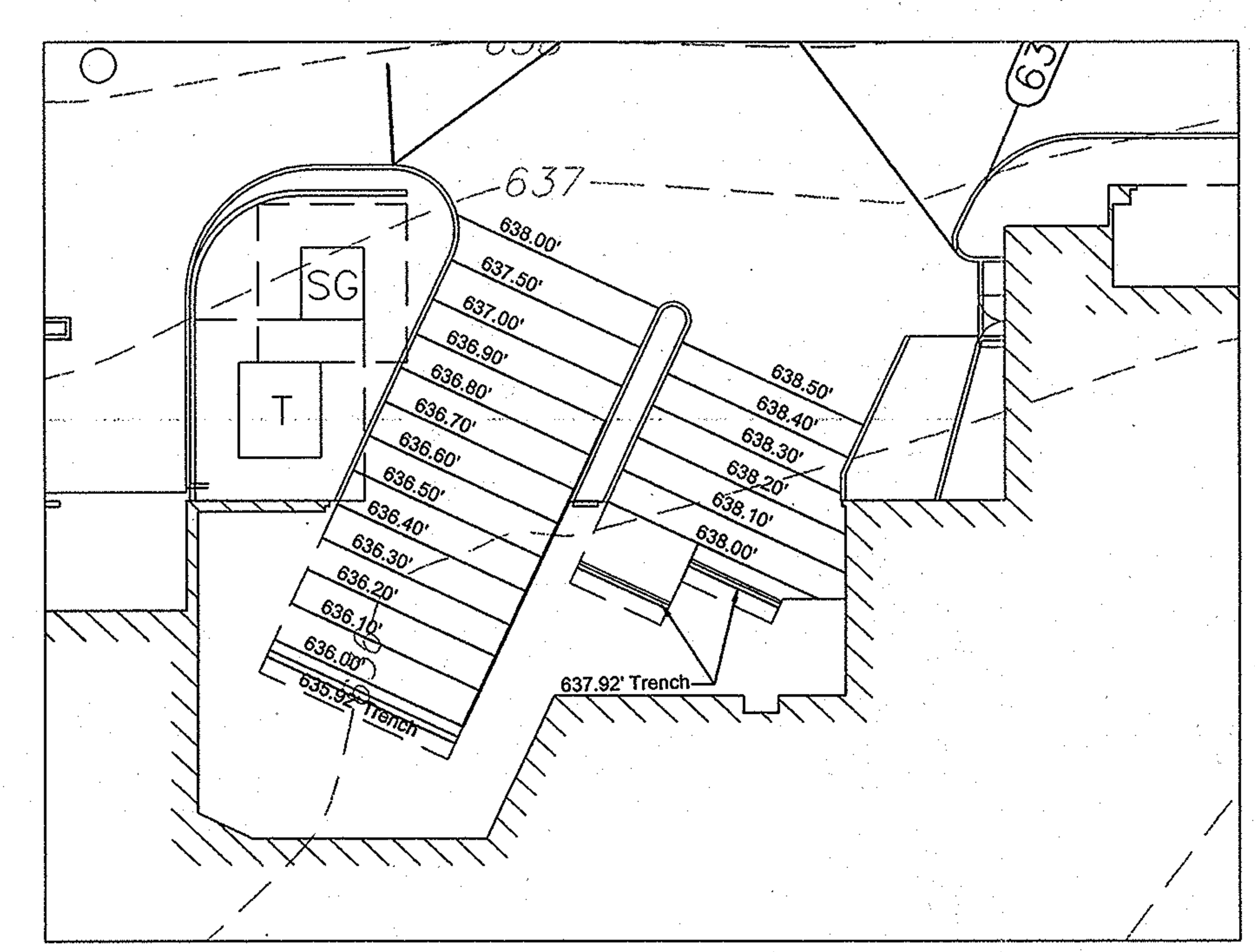


DETAIL HC-1
SCALE: 1"=20'



DETAIL HC-2
SCALE: 1"=20'



DETAIL 3
SCALE: 1"=20'

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

No.	Date	Revisions	App.
2	12/21/09	REVISION TO DOCTOR PARKING, DOCK LAYOUT, AND FRONT ENTRANCE	

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STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED PROFESSIONAL ENGINEER
[illegible] 3/10/10

METHODIST HOSPITAL FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

GRADING PLAN

Scale:	AS SHOWN
Designed by:	TNB
Drawn by:	TNB
Checked by:	DKK
Date:	01/05/10
Project No.	69302500

SHEET
C-05

XREFS XREF x2436 - XREF xBndy - XREF xBndy-Exst - XREF xGrad-Exst - XREF xSite - XREF xStrm - XREF xUtil-Exst - XREF xGrad - XREF xSite-Exst - XREF xUmap - XREF xSite-boka - XREF DW9X8-sitework2
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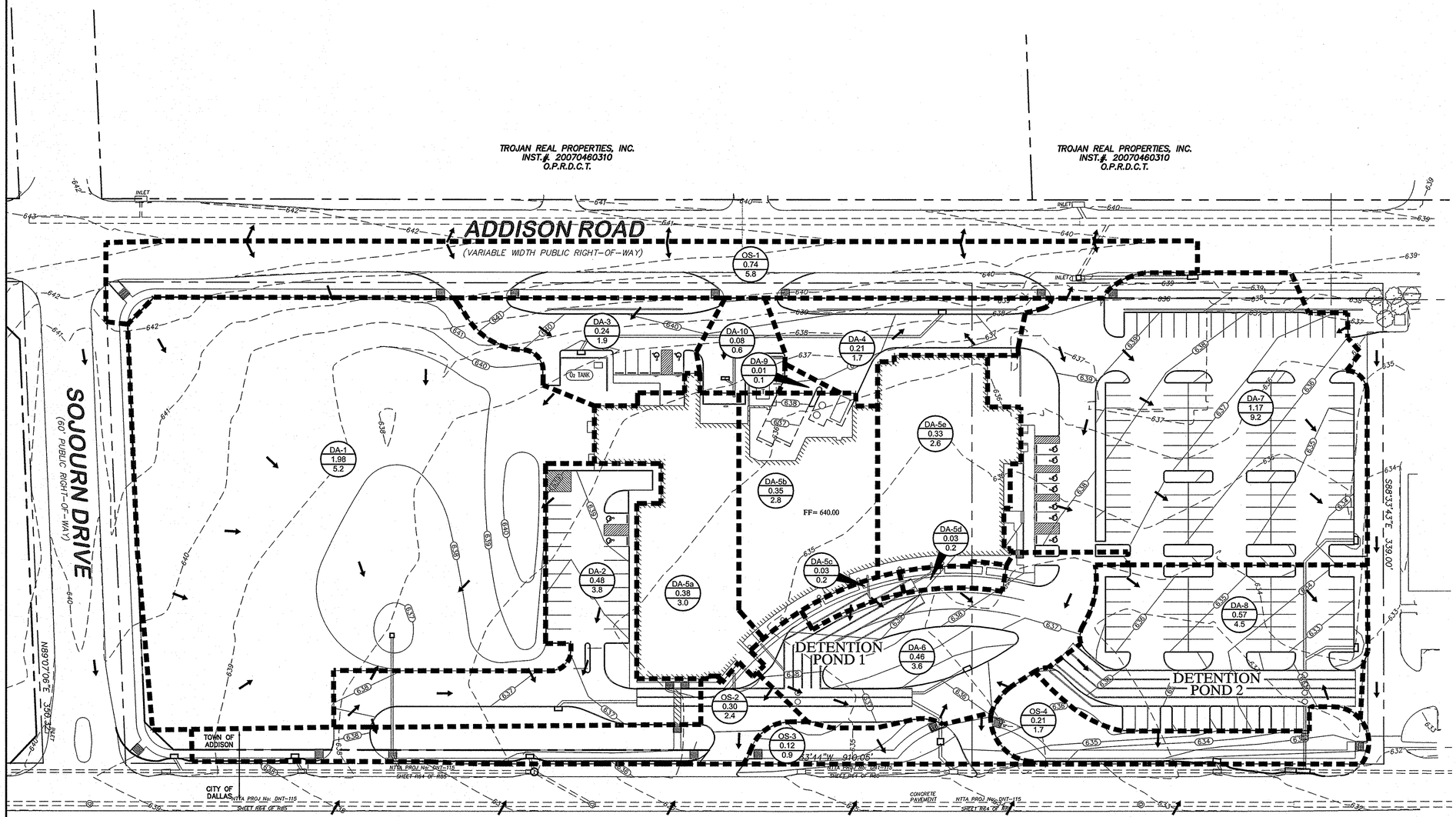

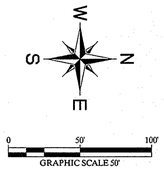

LEGEND

DA-1 / 2.00 / 5.2	DRAINAGE AREA NUMBER
	DRAINAGE AREA (ACRES)
	Q100 FLOW (CFS)
	DRAINAGE AREA
698	PROPOSED CONTOUR
687	EXISTING CONTOUR
	FLOW ARROW

DRAINAGE AREA CALCULATIONS					
DA	Area (Acres)	C	Tc (min)	I100 (in/hr)	Q100 (cfs)
DA-1	1.98	0.30	10	8.74	5.2
DA-2	0.48	0.90	10	8.74	3.8
DA-3	0.24	0.90	10	8.74	1.9
DA-4	0.21	0.90	10	8.74	1.7
DA-5a	0.38	0.90	10	8.74	3.0
DA-5b	0.35	0.90	10	8.74	2.8
DA-5c	0.03	0.90	10	8.74	0.2
DA-5d	0.03	0.90	10	8.74	0.2
DA-5e	0.33	0.90	10	8.74	2.6
DA-6	0.46	0.90	10	8.74	3.6
DA-7	1.17	0.90	10	8.74	9.2
DA-8	0.57	0.90	10	8.74	4.5
DA-9	0.01	0.90	10	8.74	0.1
DA-10	0.08	0.90	10	8.74	0.6
OS-1	0.74	0.9	10	8.74	5.8
OS-2	0.30	0.90	10	8.74	2.4
OS-3	0.12	0.90	10	8.74	0.9
OS-4	0.21	0.90	10	8.74	1.7

NOTES:
1. DRAINAGE AREA OS-1 WILL BE PICKED UP BY AN INLET IN ADDISON ROAD.
2. DA-1 WILL BE DETAINED TO EXISTING CONDITIONS IN THE FUTURE.

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

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BENCHMARK

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No.	Date	Revisions	App.

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STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED
PROFESSIONAL ENGINEER
11/3/09

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

DRAINAGE AREA MAP

Scale:	AS SHOWN
Designed by:	TNB
Drawn by:	TNB
Checked by:	DKK
Date:	11/3/09
Project No.	69302500

SHEET
C-06

IMAGES
XREF: XREF-CANL - XREF-dbody - XREF-dbody-Base - XREF-dCond - XREF-dCond-Base - XREF-dSite - XREF-dSite-Base - XREF-dStruc - XREF-dStruc-Base - XREF-dTemp - XREF-xbldg-Base
PLOTTED BY: BRASWELL, TREY 11/4/2009 3:23 PM
DWG NAME: K:\FRI_CIVIL\69302500 - METHODIST ADDISON\DWG\PLANSET\C-DRAP.DWG
LAYOUT: C-06
LOGIN NAME: tbraswell

Inlet Design Calculations

Project Name:	Methodist Hospital for Special Surgery	Date:	10/14/09
Project No.:	69302500	Designed By:	LAN
Project Description:		Checked By:	DKK

Inlet No.	Drainage Area	Design Storm Frequency	RUNOFF (Q = C I A) Time of Conc. T_c	Rainfall Intensity I	Runoff Coeff. C	Area A	Runoff Q	Carryover from Upstream Inlet	Total Gutter Flow	Gutter Capacity	Gutter Slope	Crown Type	SELECTED INLET Length L_t	Type	Inlet Capacity	Carry Over to Downstream Inlet
		(yrs)	(min)	(in/hr)		(ac)	(cfs)	(cfs)	(cfs)	(cfs)	(%)		(ft)		(cfs)	(cfs)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A	DA-3	100	10	8.74	0.90	0.24	1.9	-	1.9	-	-	N/A	8'	CURB INLET AT LOW POINT	14	
A1	DA-10	100	10	8.74	0.90	0.08	0.6	-	0.6	-	-	N/A	N/A	STANDARD 2-GRATE INLET	2.7	-
A2	DA-4	100	10	8.74	0.90	0.21	1.7	-	1.7	-	-	N/A	8'	CURB INLET AT LOW POINT	14	-
C	DA-7	100	10	8.74	0.90	1.17	9.2	-	9.2	-	-	N/A	8'	CURB INLET AT LOW POINT	14	-
C1	DA-8	100	10	8.74	0.90	0.57	4.5	-	4.5	-	-	N/A	8'	CURB INLET AT LOW POINT	14	-
E	DA-6	100	10	8.74	0.90	0.46	3.6	-	3.6	-	-	N/A	8'	CURB INLET AT LOW POINT	14	-
F	DA-2	100	10	8.74	0.90	0.46	3.6	-	3.6	-	-	N/A	8'	CURB INLET AT LOW POINT	14	-
G	DA-1	100	10	8.74	0.30	2.00	5.2	-	5.2	-	-	N/A	3'x3'	DROP INLET	12	-

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

RUNOFF COLLECTION POINT Downstream Station	Upstream Station	Distance Between Collection Points "L" (feet)	DRAINAGE AREA Drainage Area Name	Increm. "A" (acres)	Accum. "A" (acres)	Runoff Coeff. "C"	Accum. "CA" (acres)	Intensity "I" (in./hr.) 100 yr	STORMWATER RUNOFF Increm. "Q" (c.f.s.)	Accum. "Q" (c.f.s.)	PROPOSED STORM SEWER Pipe or Box	Round Pipe Diameter "d" (in.)	Rectangular Box Width "w" (ft.)	Rectangular Box Height "h" (ft.)	Proposed Storm Sewer Slope "S_p" (ft/ft.)	Slope of Hydraulic Gradient Based on Pipe Size "S" (ft/ft.)	Full Flow Capacity "C" (c.f.s.)	Q_{85} Flow Velocity "V_c" (f.p.s.)	Head Loss Coeff. K_j	Velocity Head Loss at Upstream Station $\frac{V_2^2 - K_1 V_1^2}{2g}$ (feet)	Pipe Flowline Elev. Downstream (feet)	Pipe Flowline Elev. Upstream (feet)	Top of Pipe Elev. Downstream (feet)	Top of Pipe Elev. Upstream (feet)	Hg Elev. Downstream (feet)	Hg Elev. Upstream (feet)	Full/Partial Flow
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	21	27	28	30	29	32	31	34	33	35
Storm Sewer Line A																											
2+60.84																					634.80		636.30		635.97		PARTIAL
	2+60.84	11.55	8' Curb Inlet A (DA-3)	0.24	0.24	0.90	0.22	8.74	1.9	1.9	Pipe	18	-	-	0.0122	0.0003	11.60	1.07	1.25	0.02		634.80		636.30		635.94	
2+49.29																					634.66		636.16		635.94		PARTIAL
	2+49.29	105.39	60 Degree Bend	0.00	0.24	0.90	0.22	8.74	0.0	1.9	Pipe	18			0.0122	0.0003	11.60	1.07	0.43	0.01		634.66		636.16		635.93	
1+43.90																					633.38		634.88		635.90		FULL
	1+43.90	34.85	4' Manhole (Lat A2)	0.21	0.45	0.90	0.41	8.74	1.7	3.6	Pipe	18			0.0122	0.0012	11.60	2.03	0.55	0.05		633.38		634.88		635.84	
1+09.05																					632.95		634.45		635.80		FULL
	1+09.05	9.05	60 Degree Wye (Lat A1)	0.08	0.53	0.90	0.48	8.74	0.6	4.2	Pipe	18			0.0122	0.0016	11.60	2.39	1.00	0.02		632.95		634.45		635.78	
1+00.00																					632.84		634.34		635.76		FULL
Storm Sewer Lat. A-1																											
1+07.41																					635.33		636.33		635.88		PARTIAL
	1+07.41	7.41	2-Grate Inlet A1 (DA-10)	0.08	0.08	0.90	0.07	8.74	0.6	0.6	Pipe	12	-	-	0.2876	0.0002	19.11	0.80	1.25	0.01		635.33		636.33		635.86	
1+00.00																					633.20		634.20		635.86		FULL
Storm Sewer Lat. A-2																											
2+57.87																					634.25				635.96		FULL
	2+57.87	22.62	6' Curb Inlet A2 (DA-4)	0.21	0.21	0.90	0.19	8.74	1.7	1.7	Pipe	18	-	-	0.0055	0.0002	7.79	0.93	1.25	0.02		634.25		635.75		635.94	
2+35.25																					634.12		635.62		635.94		FULL
	2+35.25	135.25	45 Degree Bend	0.00	0.21	0.90	0.19	8.74	0.0	1.7	Pipe	18	-	-	0.0055	0.0002	7.79	0.93	0.37	0.01		634.12		635.62		635.93	
1+00.00																					633.38		634.88		635.90		FULL
Storm Sewer Line B																											
1+46.17																					627.73				631.11		FULL
	1+46.17	22.17	Connect to Detention Pond 2	0.44	0.44	0.90	0.40	8.74	3.5	3.5	Pipe	18	-	-	0.0050	0.0011	7.43	1.96	1.25	0.07		627.73		629.23		631.11	
1+24.00																					627.62		629.12		631.11		FULL
	1+24.00	24.00	Outlet Structure	0.00	0.00	0.90	0.00	8.74	0.0	3.5	Pipe	18	-	-	0.0050	0.0011	7.43	1.96	1.25	0.07		627.62		629.12		630.03	
1+00.00																					627.50		629.00		630.00		FULL
Storm Sewer Line C																											
2+21.49																					629.35				632.28		FULL
	2+21.49	20.81	Curb Inlet (DA-7)	1.17	1.17	0.90	1.05	8.74	9.2	9.2	Pipe	21	-	-	0.0134	0.0034	18.34	3.83	1.25	0.28		629.35		631.10		632.00	
2+00.68																					629.08		630.83		631.93		FULL
	2+00.68	21.88	45 Degree Bend	0.00	0.00	0.90	0.00	8.74	0.0	9.2	Pipe	21	-	-	0.0134	0.0034	18.34	3.83	0.37	0.08		629.08		630.83		631.84	
1+78.80																					628.79		630.54		631.77		FULL
	1+78.80	70.66	45 Degree Bend	0.00	0.00	0.90	0.00	8.74	0.0	9.2	Pipe	21	-	-	0.0134	0.0034	18.34	3.83	0.37	0.08		628.79		630.54		631.68	
1+08.14																					627.84		629.59		631.45		FULL
	1+08.14	8.14	60 Degree Wye (Lat C1)	0.57	0.57	0.90	0.51	8.74	4.5	13.7	Pipe	21	-	-	0.0134	0.0075	18.34	5.69	1.00	0.28		627.84		629.59		631.17	
1+00.00																					627.73		629.48		631.11		FULL
Storm Sewer Lat C1																											
1+37.87																					628.10				631.75		FULL
	1+37.87	37.87	Curb Inlet (DA-8)	0.57	0.57	0.90	0.51	8.74	4.5	4.5	Pipe	21	-	-	0.0070	0.0008	13.26	1.86	1.25	0.07		628.10		629.85		631.68	
1+00.00																					627.84		629.59		631.65		FULL
Storm Sewer Line D																											
1+65.24																					630.00		630.00		635.42		FULL
	1+65.24	23.72	Connect to Detention Pond 1	0.58	0.58	0.90	0.52	8.74	4.6	4.6	Pipe	24	-	-	0.0061	0.0004	17.67	1.45	1.25	0.04		630.00		632.00		635.42	
1+41.52																					629.85		631.85		635.42		FULL
	1+41.52	17.52	60 Degree Bend	0.00	0.00	0.90	0.00	8.74	0.0	4.6	Pipe	24	-	-	0.0061	0.0004	17.67	1.45	0.43	0.01		629.85		631.85		635.42	
1+24.00																					629.75		631.75		635.42		FULL
	1+24.00	11.13	Manhole (Outlet Structure)	0.00	0.00	0.90	0.00	8.74	0.0	4.6	Pipe	24	-	-	0.0061	0.0004	17.67	1.45	1.25	0.04		629.75		631.75		635.42	
1+12.87																					629.68		631.68		632.62		FULL
	1+12.87	12.87	45 Degree Bend	0.00	0.00	0.90	0.00	8.74	0.0	4.6	Pipe	24	-	-	0.0061	0.0004	17.67	1.45	0.37	0.01		629.68		631.68		632.61	
1+00.00																					629.60		631.60		632.60		FULL
Storm Sewer Line E																											
1+41.77																					631.65				635.57		FULL
	1+41.77	33.16	Curb Inlet E (DA-6)	0.46	0.46	0.90	0.41	8.74	3.6	3.6	Pipe	18	-	-	0.0395	0.0012	20.88	2.05	1.25	0.08		631.65		633.15		635.49	
1+08.61																					630.34		631.84		635.45		FULL
	1+08.61	8.61	30 Degree Bend	0.00	0.00	0.90	0.00	8.74	0.0	3.6	Pipe	18	-	-	0.0395	0.0012	20.88	2.05	0.25	0.02		630.34		631.84		635.43	
1+00.00																					630.00		631.50		635.42		FULL
Storm Sewer Line F																											
1+58.49																					632.60				635.61		FULL
	1+58.49	4.74	Curb Inlet F (DA-2)	0.48	0.48	0.90	0.43	8.74	3.8	3.8	Pipe	18	-	-	0.0375	0.0013	20.34	2.14	1.25	0.09		632.60		634.10		635.52	
1+53.75																					632.42		633.92		635.52		FULL
	1+53.75	53.75	45 Degree Bend	0.00	0.48	0.90	0.43	8.74	0.0	3.8	Pipe	18	-	-	0.0375	0.0013	20.34	2.14	0.37	0.03		632.42		633.92		635.49	
1+00.00																					630.40		631.90		635.42		FULL
Storm Sewer Line G																											
2+00.00																					633.60				636.55		FULL
	2+00.00	86.40	"Y" Inlet G (DA-1)	1.98	1.98	0.30	0.59	8.74	5.2	5.2	Pipe	18	-	-	0.0050	0.0024	7.43	2.94	1.25	0.17		633.60		635.10		636.38	
1+13.60																					633.17		634.67		636.17		FULL
	1+13.60	13.60	30 Degree Bend	0.00	0.00	0.30	0.00	8.74	0.0	5.2	Pipe	18	-	-	0.0050	0.0024	7.43	2.94	0.25	0.03		633.17		634.67		636.13	

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No.	Date	Revisions	App.

STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED
PROFESSIONAL ENGINEER
10/19/09

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

STORM SEWER CALCULATIONS

Scale:	AS SHOWN
Designed by:	TNB
Drawn by:	TNB
Checked by:	DKK
Date:	11/5/09
Project No.	69302500

SHEET
C-07

IMAGES
XREF-ADA
XREFS
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LAYOUT(S) C-07
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Graphical Hydrograph Method for Stormwater Detention Pond 1

Methodist Hospital for Special Surgery, Town of Addison

Design Frequency:	100 year storm		
Purpose:	Use the graphical hydrograph method to determine the volume of stormwater storage needed to compensate for increased runoff due to development.		
Method:	Use the Rational Method to determine maximum rate of runoff		
	Q =c*c*I*A	Where:	c=Frequency Factor Coefficient
			c = Runoff Coefficient
			I = Rainfall Intensity (in/hr)
			A = Drainage Area (acres)
Assumptions:	Rainfall Intensity determined from attached graph given Time of Concentration (Tc) or Duration and the Return Period of the storm.		
For Existing Conditions:	c=1.00, c = 0.30, Tc= 10 min, I = 8.74 in./hr.		
For Proposed Conditions:	Use c=1.00, c = 0.90 for Non-Residential Uses, Tc=10 min, I = 8.74		

I. Determination of Allowable Release Rate - Existing Site

Total site area	3.02	acres
Detained Time of Concentration (T_c)	10	minutes
Rainfall intensity for one-hundred year storm (T_c=10 min)	8.74	inches/hr
Frequency Factor coefficient	1.00	
Detained runoff coefficient	0.30	
Allowable total site detained release rate	7.9	cfs
Area of site draining through detention pond	2.60	acres
Area of site draining undetained	0.42	acres
Undetained Time of Concentration (T_c)	10	minutes
Rainfall intensity for one-hundred year storm (T_c=10 min)	8.74	inches/hr
Frequency factor coefficient	1.00	
Runoff coefficient for developed conditions	0.90	
Runoff from undetained area	3.3	cfs
Total off-site area passed through	0.00	acres
Time of Concentration (T_c)	10	minutes
Rainfall intensity for one-hundred year storm (T_c=15 min)	8.74	inches/hr
Frequency factor coefficient	1.00	
Runoff coefficient	0.90	
Off-site pass-through rate	0.0	cfs
Total release rate from detention pond (allowed)	4.61	cfs
Actual metered release rate from detention pond	4.61	cfs

Total release rate = Allowable total site detained release rate - Runoff from undetained area + Off-site pass-through rate

II. Required Storage Calculations, Return Period = 100 years

	b	d	e
Intensity:	0	0	0

Duration (hours)	Duration (min)	Rainfall Intensity (in/hr)	Inflow Rate (cfs)	Inflow Volume (cf)	Outflow Rate (cfs)	Outflow Volume (cf)	Inflow-Outflow Volume (cf)	Required Storage (ac-ft)
0.17	10	8.74	20.5	12,271	4.61	2,769	9,502	0.218
0.25	15	7.52	17.6	15,837	4.61	3,461	12,376	0.284
0.33	20	6.80	15.9	19,094	4.61	4,153	14,941	0.343
0.50	30	5.74	13.4	24,177	4.61	5,538	18,639	0.428
0.67	40	4.94	11.6	27,743	4.61	6,922	20,821	0.478
0.83	50	4.37	10.2	30,677	4.61	8,306	22,371	0.514
1.00	60	3.90	9.1	32,854	4.61	9,691	23,163	0.532
1.17	70	3.65	8.5	35,872	4.61	11,075	24,797	0.569
1.33	**80**	**3.35**	**7.8**	**37,627**	**4.61**	**12,460**	**25,167**	**0.578**
1.50	90	3.08	7.2	38,919	4.61	13,844	25,075	0.576
1.67	100	2.87	6.7	40,295	4.61	15,229	25,066	0.575
1.83	110	2.70	6.3	41,699	4.61	16,613	25,086	0.576
2.00	120	2.53	5.9	42,625	4.61	17,997	24,628	0.565

Pond1=	60 L.F. 6'x6' RCB	1,440
	793 L.F. 6'x5' RCB	23,790
	TOTAL	25,230

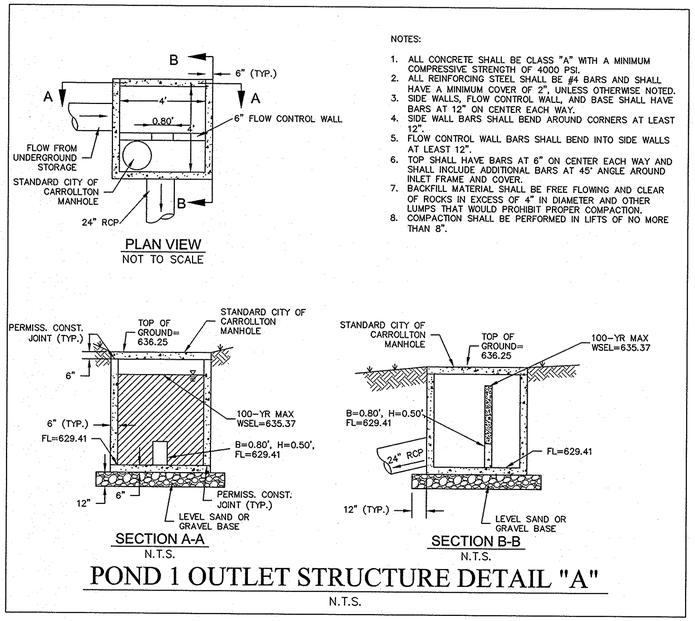
Required Volume=	25,167
Volume Provided=	25,230

Pond 1 Outfall Calculations

Purpose:	Provide metered flow that meets the 100-year storm event release rate restrictions.
Method:	Use weir flow and orifice flow calculations to determine total outflow as a product of pond depth.
Goal:	Water surface elevation based upon volume required
	100-yr storm requires 0 cf of storage, which occurs at elev 635.42
Where:	Use weir equation to determine flow until opening is submerged.
	Q = C*b*H^(3/2)
	C = discharge coefficient = 3.33
	b = weir base width
	H = water level height above base of weir
	Use orifice equation to determine flow once opening is submerged.
	Q = A*C*(2g*h)^(1/2)
	A = area of opening
	C = discharge coefficient = 0.6
	h = water level height above center of opening

Opening 1	
b =	0.80 ft
Height =	0.50 ft
A =	0.40 SF
base elev =	629.41 ft

	Weir		Orifice				
WSEL	H1	Q1	h1	Q1	Qtotal	Event	Q allow
629.41	0.00	0.00	0.00	0.00	0.00		
629.51	0.10	0.08	0.00	0.00	0.08		
629.61	0.20	0.24	0.00	0.00	0.24		
629.71	0.30	0.44	0.00	0.00	0.44		
629.81	0.40	0.67	0.00	0.00	0.67		
629.91	0.00	0.00	0.25	0.66	0.66		
631.91	0.00	0.00	2.25	2.88	2.88		
632.01	0.00	0.00	2.35	2.95	2.95		
632.11	0.00	0.00	2.45	3.01	3.01		
632.21	0.00	0.00	2.55	3.07	3.07		
632.31	0.00	0.00	2.65	3.13	3.13		
632.41	0.00	0.00	2.75	3.19	3.19		
632.51	0.00	0.00	2.85	3.25	3.25		
632.61	0.00	0.00	2.95	3.30	3.30		
632.71	0.00	0.00	3.05	3.36	3.36		
632.81	0.00	0.00	3.15	3.41	3.41		
632.91	0.00	0.00	3.25	3.47	3.47		
633.01	0.00	0.00	3.35	3.52	3.52		
633.11	0.00	0.00	3.45	3.57	3.57		
633.21	0.00	0.00	3.55	3.62	3.62		
633.31	0.00	0.00	3.65	3.67	3.67		
633.41	0.00	0.00	3.75	3.72	3.72		
633.51	0.00	0.00	3.85	3.77	3.77		
633.61	0.00	0.00	3.95	3.82	3.82		
633.71	0.00	0.00	4.05	3.87	3.87		
633.81	0.00	0.00	4.15	3.92	3.92		
633.91	0.00	0.00	4.25	3.96	3.96		
634.01	0.00	0.00	4.35	4.01	4.01		
634.11	0.00	0.00	4.45	4.05	4.05		
634.21	0.00	0.00	4.55	4.10	4.10		
634.31	0.00	0.00	4.65	4.15	4.15		
634.41	0.00	0.00	4.75	4.19	4.19		
634.51	0.00	0.00	4.85	4.23	4.23		
634.61	0.00	0.00	4.95	4.28	4.28		
634.71	0.00	0.00	5.05	4.32	4.32		
634.81	0.00	0.00	5.15	4.36	4.36		
634.91	0.00	0.00	5.25	4.40	4.40		
635.01	0.00	0.00	5.35	4.45	4.45		
635.11	0.00	0.00	5.45	4.49	4.49		
635.21	0.00	0.00	5.55	4.53	4.53		
635.31	0.00	0.00	5.65	4.57	4.57		
635.41	0.00	0.00	5.75	4.61	4.61		
635.42	**0.00**	**0.00**	**5.76**	**4.61**	**4.61**	**100 yr**	**4.61**



Graphical Hydrograph Method for Stormwater Detention Pond 2

Methodist Hospital for Special Surgery, Town of Addison

Design Frequency:	100 year storm		
Purpose:	Use the graphical hydrograph method to determine the volume of stormwater storage needed to compensate for increased runoff due to development.		
Method:	Use the Rational Method to determine maximum rate of runoff		
	Q =c*c*I*A	Where:	c=Frequency Factor Coefficient
			c = Runoff Coefficient
			I = Rainfall Intensity (in/hr)
			A = Drainage Area (acres)
Assumptions:	Rainfall Intensity determined from attached graph given Time of Concentration (Tc) or Duration and the Return Period of the storm.		
For Existing Conditions:	c=1.00, c = 0.30, Tc= 10 min, I = 8.74 in./hr.		
For Proposed Conditions:	Use c=1.00, c = 0.90 for Non-Residential Uses, Tc=10 min, I = 8.74		

I. Determination of Allowable Release Rate - Existing Site

Total site area	1.95	acres
Detained Time of Concentration (T_c)	10	minutes
Rainfall intensity for one-hundred year storm (T_c=10 min)	8.74	inches/hr
Frequency Factor coefficient	1.00	
Detained runoff coefficient	0.30	
Allowable total site detained release rate	5.1	cfs
Area of site draining through detention pond	1.74	acres
Area of site draining undetained	0.21	acres
Undetained Time of Concentration (T_c)	10	minutes
Rainfall intensity for one-hundred year storm (T_c=10 min)	8.74	inches/hr
Frequency factor coefficient	1.00	
Runoff coefficient for developed conditions	0.90	
Runoff from undetained area	1.7	cfs
Total off-site area passed through	0.00	acres
Time of Concentration (T_c)	10	minutes
Rainfall intensity for one-hundred year storm (T_c=15 min)	8.74	inches/hr
Frequency factor coefficient	1.00	
Runoff coefficient	0.90	
Off-site pass-through rate	0.0	cfs
Total release rate from detention pond (allowed)	3.46	cfs
Actual metered release rate from detention pond	3.46	cfs

Total release rate = Allowable total site detained release rate - Runoff from undetained area + Off-site pass-through rate

II. Required Storage Calculations, Return Period = 100 years

	b	d	e
Intensity:	0	0	0

Duration (hours)	Duration (min)	Rainfall Intensity (in/hr)	Inflow Rate (cfs)	Inflow Volume (cf)	Outflow Rate (cfs)	Outflow Volume (cf)	Inflow-Outflow Volume (cf)	Required Storage (ac-ft)
0.17	10	8.74	13.7	8,212	3.46	2,077	6,135	0.141
0.25	15	7.52	11.8	10,599	3.46	2,596	8,003	0.184
0.33	20	6.80	10.6	12,779	3.46	3,115	9,664	0.222
0.50	30	5.74	9.0	16,180	3.46	4,153	12,027	0.276
0.67	40	4.94	7.7	18,566	3.46	5,192	13,375	0.307
0.83	50	4.37	6.8	20,530	3.46	6,230	14,300	0.328
1.00	60	3.90	6.1	21,987	3.46	7,268	14,718	0.338
1.17	70	3.65	5.7	24,007	3.46	8,306	15,700	0.360
1.33	**80**	**3.35**	**5.2**	**25,181**	**3.46**	**9,345**	**15,836**	**0.364**
1.50	90	3.08	4.8	26,046	3.46	10,383	15,663	0.360
1.67	100	2.87	4.5	26,967	3.46	11,421	15,545	0.357
1.83	110	2.70	4.2	27,906	3.46	12,460	15,446	0.355
2.00	120	2.53	4.0	28,526	3.46	13,498	15,028	0.345

Pond2=	888 L.F. 6x3 RCB	15,984
	TOTAL	15,984

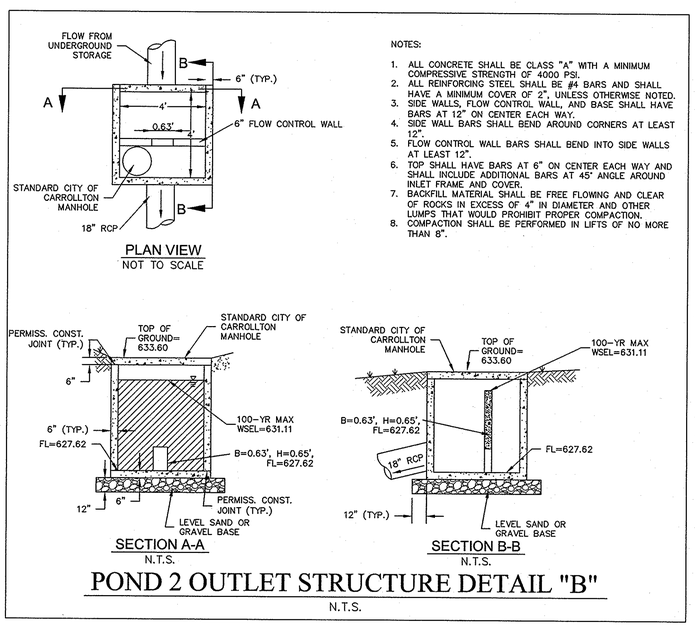
Required Volume=	15,836
Volume Provided=	15,984

Pond 2 Outfall Calculations

Purpose:	Provide metered flow that meets the 100-year storm event release rate restrictions.
Method:	Use weir flow and orifice flow calculations to determine total outflow as a product of pond depth.
Goal:	Water surface elevation based upon volume required
	100-yr storm requires 0 cf of storage, which occurs at elev 631.11
Where:	Use weir equation to determine flow until opening is submerged.
	Q = C*b*H^(3/2)
	C = discharge coefficient = 3.33
	b = weir base width
	H = water level height above base of weir
	Use orifice equation to determine flow once opening is submerged.
	Q = A*C*(2g*h)^(1/2)
	A = area of opening
	C = discharge coefficient = 0.6
	h = water level height above center of opening

Opening 1	
b =	0.63 ft
Height =	0.65 ft
A =	0.40 SF
base elev =	627.62 ft

	Weir		Orifice				
WSEL	H1	Q1	h1	Q1	Qtotal	Event	Q allow
627.62	0.00	0.00	0.00	0.00	0.00		
627.72	0.10	0.07	0.00	0.00	0.07		
627.82	0.20	0.19	0.00	0.00	0.19		
627.92	0.30	0.34	0.00	0.00	0.34		
628.02	0.40	0.53	0.00	0.00	0.53		
628.12	0.50	0.74	0.00	0.00	0.74		
630.12	0.00	0.00	2.18	2.87	2.87		
630.22	0.00	0.00	2.28	2.94	2.94		
630.32	0.00	0.00	2.38	3.00	3.00		
630.42	0.00	0.00	2.48	3.06	3.06		
630.52	0.00	0.00	2.58	3.13	3.13		
630.62	0.00	0.00	2.68	3.19	3.19		
630.72	0.00	0.00	2.78	3.24	3.24		
630.82	0.00	0.00	2.88	3.30	3.30		
630.92	0.00	0.00	2.98	3.36	3.36		
631.02	0.00	0.00	3.08	3.42	3.42		
631.11	**0.00**	**0.00**	**3.17**	**3.46**	**3.46**	**100 yr**	**3.46**



RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY: Rogers-O'Brien Construction Company

No.	Date	Revisions	App.

Kinley-Horn and Associates, Inc.
5750 Genesis Court, Suite 200
Frisco, TX 75034
Tel. No.(972) 335-3580
Fax No.(972) 335-3779
State of Texas Registration No. F-928

DAVID K. KOCHALKA 87781 LICENSED PROFESSIONAL ENGINEER 11/9/09

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

DETENTION CALCULATIONS

Scale:	AS SHOWN
Designed by:	TNB
Drawn by:	TNB
Checked by:	DKK
Date:	11/2009
Project No.	69002500

SHEET
C-08

XREF-Attb
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LAST SAVED
11/2/2009 2:56 PM
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TROJAN REAL PROPERTIES, INC.
INST.# 20070460310
O.P.R.D.C.T.

TROJAN REAL PROPERTIES, INC.
INST.# 20070460310
O.P.R.D.C.T.

ADDISON ROAD
(VARIABLE WIDTH PUBLIC RIGHT-OF-WAY)

EXISTING 54" RCP

EXISTING 16" WATER

EXISTING 10" SANITARY SEWER

EXISTING 60" RCP

EXISTING 10" WATER

STA: 1+43.90 LINE A=
STA: 1+00.00 LAT A2
INSTALL 4' MANHOLE PER CITY OF CARROLLTON STANDARDS
FL 18" (OUT)= 633.38
FL 18" (IN)= 633.38
FL 18" (IN)= 633.38

REMOVE INLET AND CONSTRUCT 3'x3' HANSON JUNCTION BOX (OR APPROVED EQUAL).
FL 24" (IN, N) = 635.15
FL 24" (OUT, W) = 635.10

INSTALL 78 L.F. 24" RCP @ 0.77%

INSTALL 8' CURB INLET
TC= 639.75 FL 24"= 635.75
CONTRACTOR TO CONNECT TO EXISTING STORM SEWER AND VERIFY POSITIVE DRAINAGE.

STA: 2+49.29 LINE A
INSTALL 60° BEND
FL 18"= 634.66

PROP WATER SERVICES

RELOCATE EXISTING CURB INLET

LINE A
18" RCP @ 1.24% 2+00

LAT A2 18" RCP @ 0.55% 2+00

1.9 CFS

1.7 CFS

STA: 2+57.87 LAT A2
INSTALL 8' CURB INLET A2
TC= 638.25 FL= 634.25
HGL 635.96

0.6 CFS

LINE A
18" RCP @ 1.22%

STA: 1+09.05 LINE A=
STA: 1+00.00 LAT A1
FL 18"= 632.95
FL 12"= 633.20

STA: 2+58.53 LINE A
INSTALL STANDARD 2-GRATE INLET A
TP= 638.80 FL= 634.80
PARTIAL FLOW

STA: 2+35.25 LAT A2
INSTALL 45° BEND
FL 18"= 634.12

O2 TANK

LAT A1
12" PVC @ 28.76%

STA: 1+07.41 LAT A1
INSTALL STANDARD 2-GRATE INLET A1
TG= 639.00
FL= 635.33
PARTIAL FLOW

PAVER DRAIN (TYP., REFERENCE LANDSCAPE PLANS FOR DETAILS)

TRENCH DRAIN
REFER TO MEP & ARCH PLANS FOR DETAILS.
TOP = 637.92

CONNECT TRENCH DRAIN LATERAL. REF. MEP PLANS FOR DETAILS.

STA: 2+10.00 LINE C
CONNECT 8" PVC LANDSCAPE DRAIN
FL 8" = 629.74

STA: 1+00.00 LINE A
REF. MEP PLANS FOR CONTINUATION.
FL 18"= 632.84

TRENCH DRAIN
REFER TO MEP & ARCH PLANS FOR DETAILS.
TOP = 635.92

STA: 2+00.00 LINE M
INSTALL 10 L.F. 12" PVC ROOF DRAIN. REF. MEP PLANS FOR CONNECTION TO BUILDING.
FL 12" = 635.16 (STUB)
FL 12" = 630.38 (CONN.)

STA: 2+25.39 LINE L
INSTALL 25 L.F. 12" PVC ROOF DRAIN. REF. MEP PLANS FOR CONNECTION TO BUILDING.
FL 8" = 635.33 (STUB)
FL 8" = 630.42 (CONN.)

STA: 2+00.68 LINE C
INSTALL 45° BEND
FL 21" = 629.06

STA: 2+21.49 LINE C
INSTALL 8' CURB INLET C
TC= 633.85 FL 21"= 629.35
HGL= 632.28

STA: 1+78.80 LINE C
INSTALL 45° BEND
FL 21" = 628.79

PROP 12" WATER

15' WATER ESMT

STA: 1+13.23 LINE M
INSTALL 25 L.F. 12" PVC ROOF DRAIN. REF. MEP PLANS FOR CONNECTION TO BUILDING.
FL 12" = 635.83 (STUB)
FL 12" = 630.21 (CONN.)

FF= 640.00

STA: 1+16.12 LINE J
CONNECT 8" PVC
FL 8" = 631.00

339.00' @ 2.00%

LINE C
21" RCP @ 1.34%

9.2 CFS

STA: 2+00.00 LINE G
INSTALL 3'x3' "r" INLET G
THROAT 636.65
FL 18"= 633.60
HGL= 636.55

STA: 1+08.14 LINE C=
STA: 1+00.00 LAT C1
FL 21"= 627.84
FL 21"= 627.84

STA: 1+00.00 LINE C=
STA 1+36.76 LINE Q
CONN. TO DET. SYSTEM
FL 6'x3'= 627.73
FL 21"= 627.73

STA: 1+30.00 LINE C
CONNECT 8" PVC LANDSCAPE DRAIN
FL 8" = 628.59

SEE DETAIL "A" FOR MORE INFORMATION ON UNDERGROUND DETENTION

STA: 2+29.33 LINE I
INSTALL 11 L.F. 18" RCP. REF. MEP PLANS FOR CONTINUATION.
FL 18" = 630.26 (POND)
FL 18" = 630.39 (CONN.)

STA: 1+41.77 LINE E
INSTALL 8' CURB INLET E
TC= 636.15 FL 18"= 631.65
HGL= 635.57

LAT C1
21" RCP @ 0.70%

STA: 1+37.87 LAT C1
INSTALL 5' CURB INLET C1
TC= 632.60 FL 21"= 628.10
HGL= 631.75

5.2 CFS

2+00

STA: 1+53.75 LINE F
INSTALL 45° BEND
FL 18"= 632.42

STA: 1+00.00 LINE E=
STA: 1+00.00 LINE I
CONN. TO DET. SYSTEM
FL 6'x5'= 630.00
FL 18"= 630.00

3.6 CFS

4.5 CFS

INSTALL:
(4) 4' DIA. MANHOLE RISERS (ONE ON EACH RCB)
MANHOLE RIMS TO BE FLUSH WITH FINISHED GRADE

LINE F
18" RCP @ 3.75%

LINE G
18" RCP @ 0.50%

3.8 CFS

LINE E
18" RCP @ 3.95%

DETENTION POND 1

DETENTION POND 2

LINE D 24" RCP @ 0.61%

10' ONCOR ESMT

STA: 1+13.60 LINE G
INSTALL 30° BEND
FL 18"= 633.17

STA: 1+58.49 LINE F
INSTALL 8' CURB INLET F
TC= 637.10 FL 18"= 632.60
HGL= 635.61

PROP 12" WATER

STA: 1+65.24 LINE D=
STA: 1+00.00 LINE H
CONN. TO DET. SYSTEM
FL 24"= 630.00
FL 6'x5'= 630.00

STA: 1+24.00 LINE B
INSTALL:
(1) OUTLET STRUCTURE PER DETAIL "F" ON SHEET C-08
FL 18"= 627.62

STA: 1+46.17 LINE B=
STA 1+36.76 LINE N
CONN. TO DET. SYSTEM
FL 6'x3'= 627.73
FL 21"= 627.73

LINE B
18" RCP @ 0.50%

EXISTING 24" RCP

EXISTING DRAINAGE EASEMENT

TOWN OF ADDISON

CITY OF DALLAS

S01°33'44"W 910.05'

NTTA PROJ No: DNT-115
SHEET R64 OF R85

STA: 1+00.00 LINE F=
STA: 3+00.00 LINE H
CONN. TO DET. SYSTEM
FL 6'x5'= 630.40
FL 18"= 630.40

STA: 1+41.52.00 LINE D
INSTALL 60° BEND
FL 24"= 629.85

CONCRETE PAVEMENT

SEE DETAIL "B" FOR MORE INFORMATION ON UNDERGROUND DETENTION

STA: 1+00.00 LINE G
CONN. TO EXISTING STORM EX. FL 24"= ± 632.85
FL 18"= 633.10

EXISTING 36" RCP

INSTALL:
(2) 4' DIA. MANHOLE RISERS (ONE ON EACH RCB)
MANHOLE RIMS TO BE FLUSH WITH FINISHED GRADE

STA: 1+24.00 LINE D
INSTALL:
(1) OUTLET STRUCTURE PER DETAIL "A" ON SHEET C-08
FL 24"= 629.75

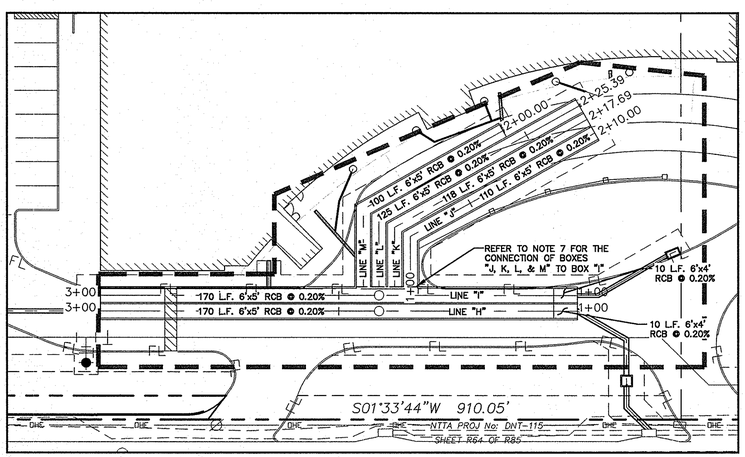
STA: 1+12.87 LINE D
INSTALL 45° BEND
FL 24"= 629.68

STA: 1+00.00 LINE D
CONN. TO EXISTING STORM EX. FL 24"= ± 629.60
FL 24"= 629.60

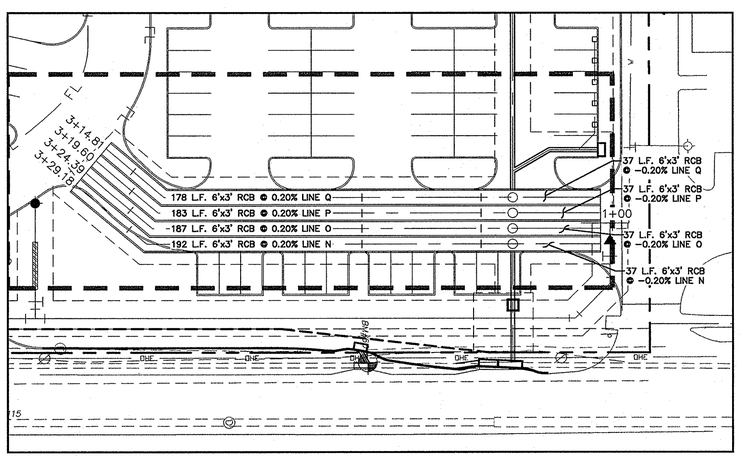
STA: 1+00.00 LINE B
REMOVE EXISTING 18' INLET AND REPLACE WITH 1-10' INLET AND 1-8' INLET PER CITY OF DALLAS FILE 2510-1.
CONN. TO INLET.
FL 18"= 627.50
CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO INSTALLATION SHOWNG CONNECTION BETWEEN TWO INLETS.

DALLAS NORTH TOLLWAY
(VARIABLE WIDTH PUBLIC RIGHT-OF-WAY)

DETAIL A
SCALE: 1"=30'



DETAIL B
SCALE: 1"=30'



LEGEND

- PROPERTY LINE
- PROPOSED STORM LINE
- EXISTING STORM LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- PROPOSED EASEMENT
- EXISTING WATER LINE
- EXISTING SANITARY SEWER LINE
- PROPOSED CURB INLET
- DROP INLET
- DE DRAINAGE EASEMENT
- WE WATER EASEMENT

NOTES

1. ALL ROOF DRAINS SHALL BE MINIMUM 10" AND SHALL EXTEND TO A POINT 5' FROM THE BUILDING FACE AND 5' BELOW FINISHED FLOOR ELEVATION UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL PLANS FOR CONTINUATION TO BUILDING.
2. SEE MEP AND ARCH. PLANS FOR ROOF DRAIN AND DOWNSPOUT CONNECTIONS INTO BUILDING AND LOADING DOCK TRENCH DRAIN DETAILS.
3. REFER TO CITY OF CARROLLTON DETAILS FOR CONSTRUCTION OF STORM INLETS AND MANHOLES. (UNLESS WORK IS IN CITY OF DALLAS.)
4. CONTRACTOR TO VERIFY ALL STORM SEWER FLOW LINES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL INSTALL A 2'X2' FLOW EQUALIZER OPENING ALONG ALL INTERIOR CULVERT WALLS AT A SPACING OF 50'. THIS OPENING SHALL BE CONSTRUCTED AT 1' ABOVE CULVERT FLOW LINE. CONTRACTOR TO INSTALL THREE (3) FLOW EQUALIZERS AT THE CULVERT FLOWLINE TO BE LOCATED AT THE LOWEST END OF THE DETENTION POND 1 AND TWO (2) FLOW EQUALIZERS AT THE CULVERT FLOWLINE TO BE LOCATED AT THE LOWEST END OF THE DETENTION POND 2. (TO PREVENT STANDING WATER). NO REBAR SHALL BE WITHIN 2' OF THE EDGE OF ANY OPENING.
6. THE BOX CULVERTS SHOWN ARE PROPOSED TO BE CAST-IN-PLACE. WHERE FEASIBLE, THE CONTRACTOR MAY PROPOSE PRE-CAST BOXES AS AN ALTERNATE TO THE ENGINEER OF RECORD, AS LONG AS THE STORM DESIGN REMAINS CONSISTENT WITH THE APPROVED PLANS.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, SEALED BY A LICENSED STRUCTURAL ENGINEER, FOR THE ENGINEER OF RECORD TO REVIEW.

BENCHMARK

1. "□" FOUND ON TOP OF THE CONCRETE BASE OF A LIGHT POLE IN THE CENTER MEDIAN OF EXCEL PARKWAY APPROXIMATELY 50 FEET WEST OF THE CENTERLINE OF ADDISON ROAD. (PER TOWN OF ADDISON PLAN # 96103, SHEET 2, DATED JANUARY 1998) ELEV=644.41
2. BM #60"⊠" SET ON TOP OF A CONCRETE CURB INLET LOCATED ON THE WEST SIDE OF DALLAS PARKWAY APPROXIMATELY 826 FEET NORTH OF THE CENTERLINE OF SOJOURN DRIVE. ELEV=632.78
3. BM #61"⊠" SET ON TOP OF A CONCRETE CURB INLET LOCATED ON THE WEST SIDE OF DALLAS PARKWAY APPROXIMATELY 160 FEET NORTH OF THE CENTERLINE OF SOJOURN DRIVE. ELEV=638.04

RECORD DRAWINGS (SEPTEMBER 2010)
INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

STOP!
CALL BEFORE YOU DIG
DIG TESS
1-800-DIG-TESS
(@ least 72 hours prior to digging)

THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION . IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE. CALL 1-800-DIG-TESS AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN VICINITY.

GRAPHIC SCALE 40'

No.	Date	Revisions	App.
2	12/21/09	REVISION TO DWGS FOR RECORD DRAWINGS	
3	09/30/10	REVISION TO ROOF DRAINS FOR RECORD DRAWINGS	

Kimley-Horn and Associates, Inc.
5750 Genesis Court, Suite 200
Frisco, Texas 75034
Tel. No.(972) 335-3580
Fax No.(972) 335-3779
State of Texas Registration No. F-928

STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED
PROFESSIONAL ENGINEER
9/30/10

METHODIST HOSPITAL FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

STORM SEWER PLAN

Scale:	AS SHOWN
Designed by:	TB
Drawn by:	TB
Checked by:	DKK
Date:	01/05/10
Project No.	69302500

SHEET
C-09

IMAGES
XREF-Addn - XREF-Hlsn - XREF-Pprty - XREF-Bldg-Base - XREF-Site-Base - XREF-Site-Elem - XREF-ADM-Base - XREF-Grad - XREF-Dmsp - XREF-DWGSite-plan
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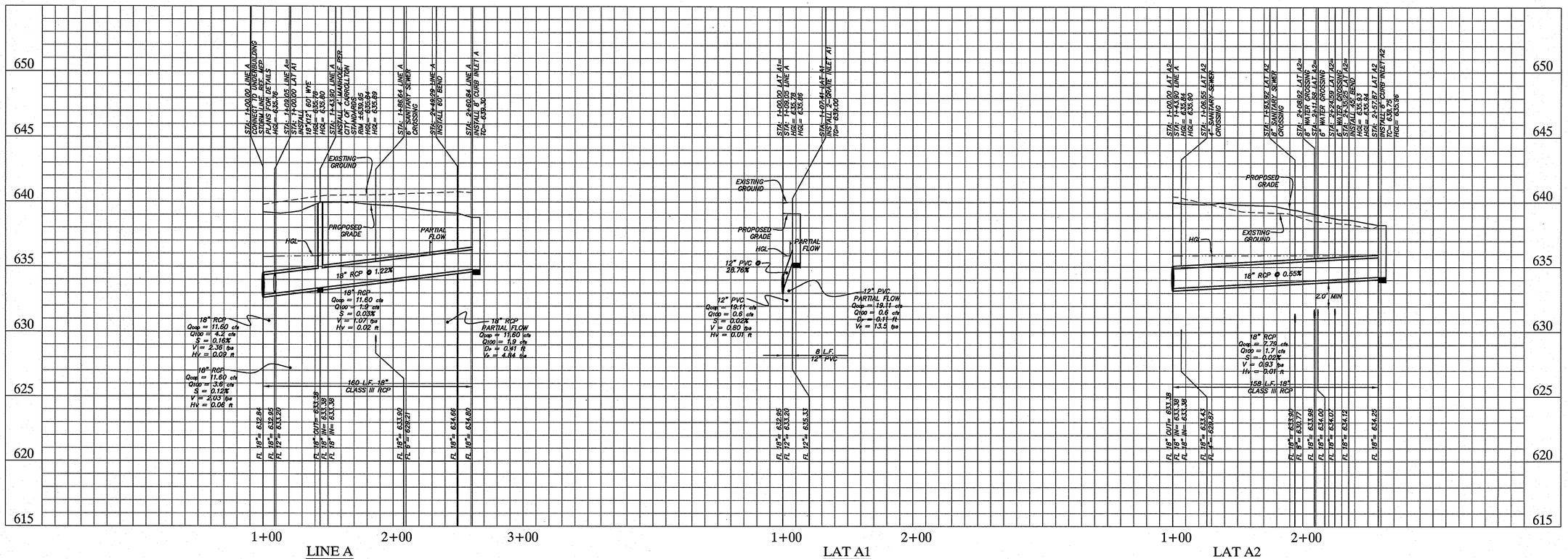
LAST SAVED
9/30/2010 12:27 AM



RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

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Frisco, Texas 75034
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STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED
PROFESSIONAL ENGINEER
12/8/09

METHODIST HOSPITAL FOR SURGERY ADDISON, TEXAS FILE NUMBER: 311T-7863

STORM SEWER PROFILES

Scale:	AS SHOWN
Designed by:	TNB
Drawn by:	RCG
Checked by:	DKK
Date:	11/2/09
Project No.	69302590

SHEET
C-10

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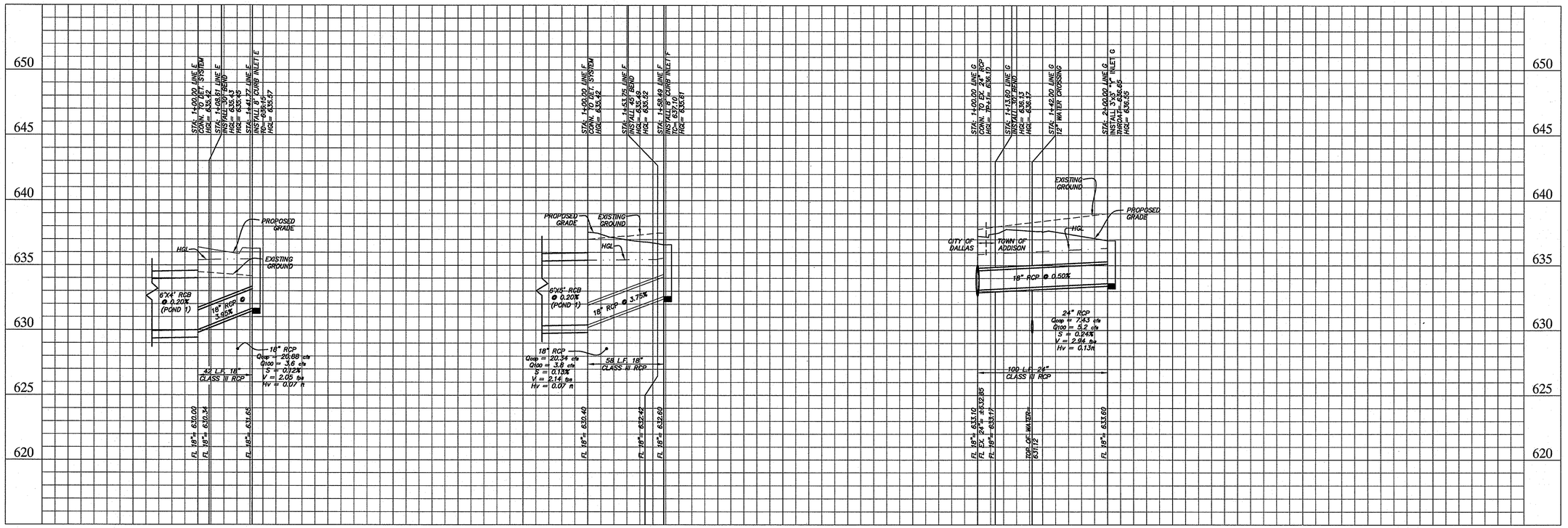

RECORD DRAWINGS (SEPTEMBER 2010)

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STATE OF TEXAS
DAVID K. KOCHALKA
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LICENSED PROFESSIONAL ENGINEER
11/09/09

METHODIST HOSPITAL FOR SURGERY ADDISON, TEXAS FILE NUMBER: 311T-7863

STORM SEWER PROFILES

Scale:	AS SHOWN
Designed by:	TNB
Drawn by:	RCG
Checked by:	DKK
Date:	11/09
Project No.	69302500

SHEET
C-11

IMAGES
XREFS
PLOTTED BY
DWG NAME
LAYOUT
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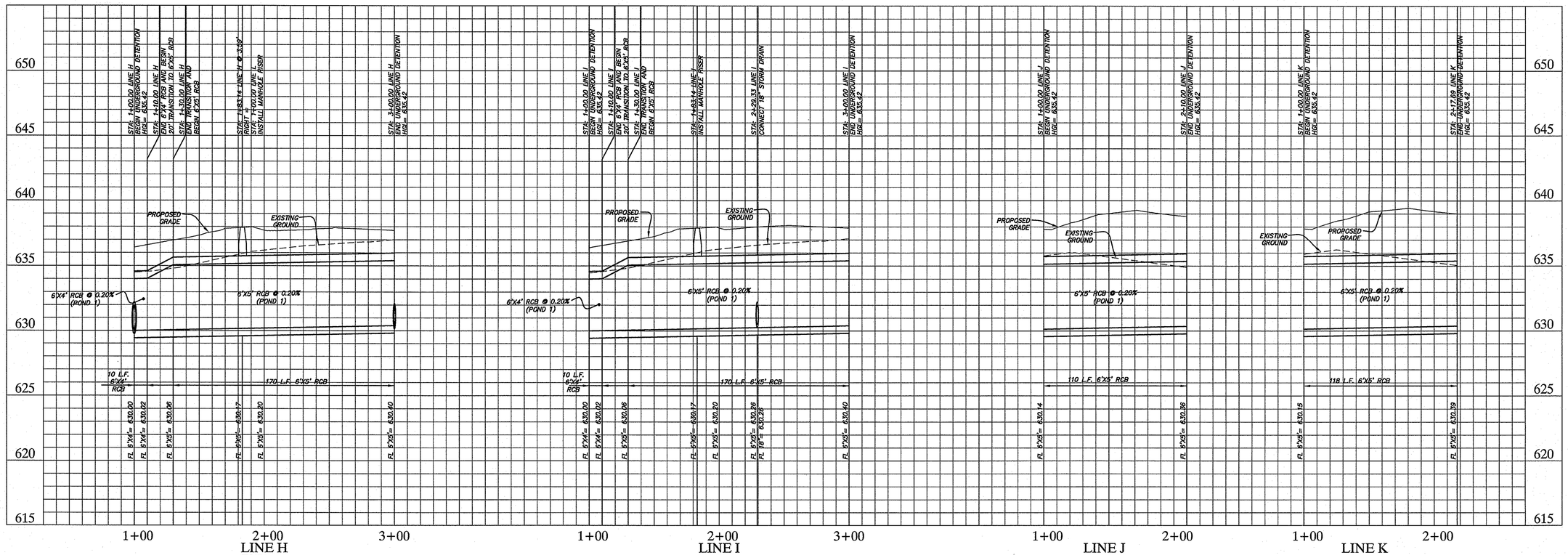

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No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
5750 Genesis Court, Suite 200
Frisco, Texas 75034
State of Texas Registration No. F-928
Tel No.(972) 335-3580
Fax No.(972) 335-3779

STATE OF TEXAS
DAVID K. KOCHALKA
87761
LICENSED PROFESSIONAL ENGINEER
12/15

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

DETENTION PROFILES

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

Scale:	AS SHOWN
Designed by:	TNB
Drawn by:	RCG
Checked by:	DKK
Date:	11/5/09
Project No.	69302500

SHEET
C-12

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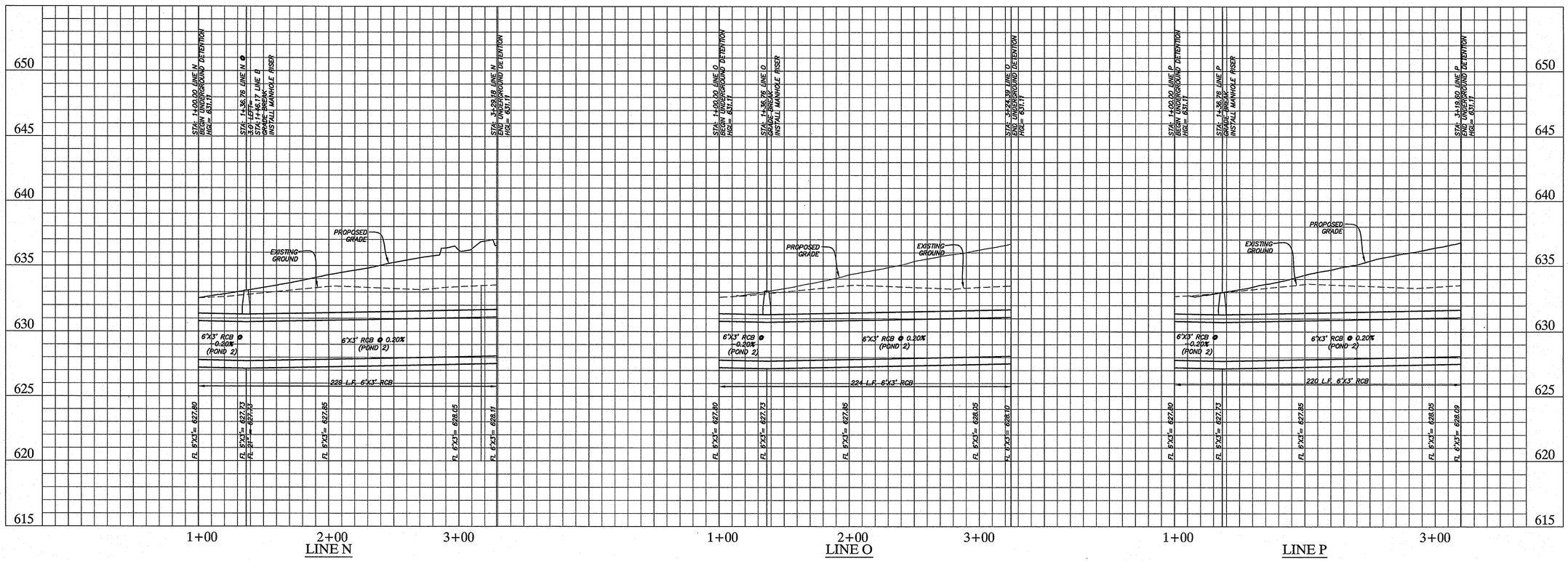

THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION . IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE. CALL 1-800-DIG-TESS AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN VICINITY.

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

BENCHMARK

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No.	Date	Revisions	App.

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Frisco, Texas 75034
Tel. No.(972) 335-3580
Fax No.(972) 335-3779
State of Texas Registration No. F-928

STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED PROFESSIONAL ENGINEER
11/30/10

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

DETENTION PROFILES

Scale:	AS SHOWN
Designed by:	TNB
Drawn by:	RCG
Checked by:	DKK
Date:	11/3/09
Project No.	69302500

SHEET
C-13

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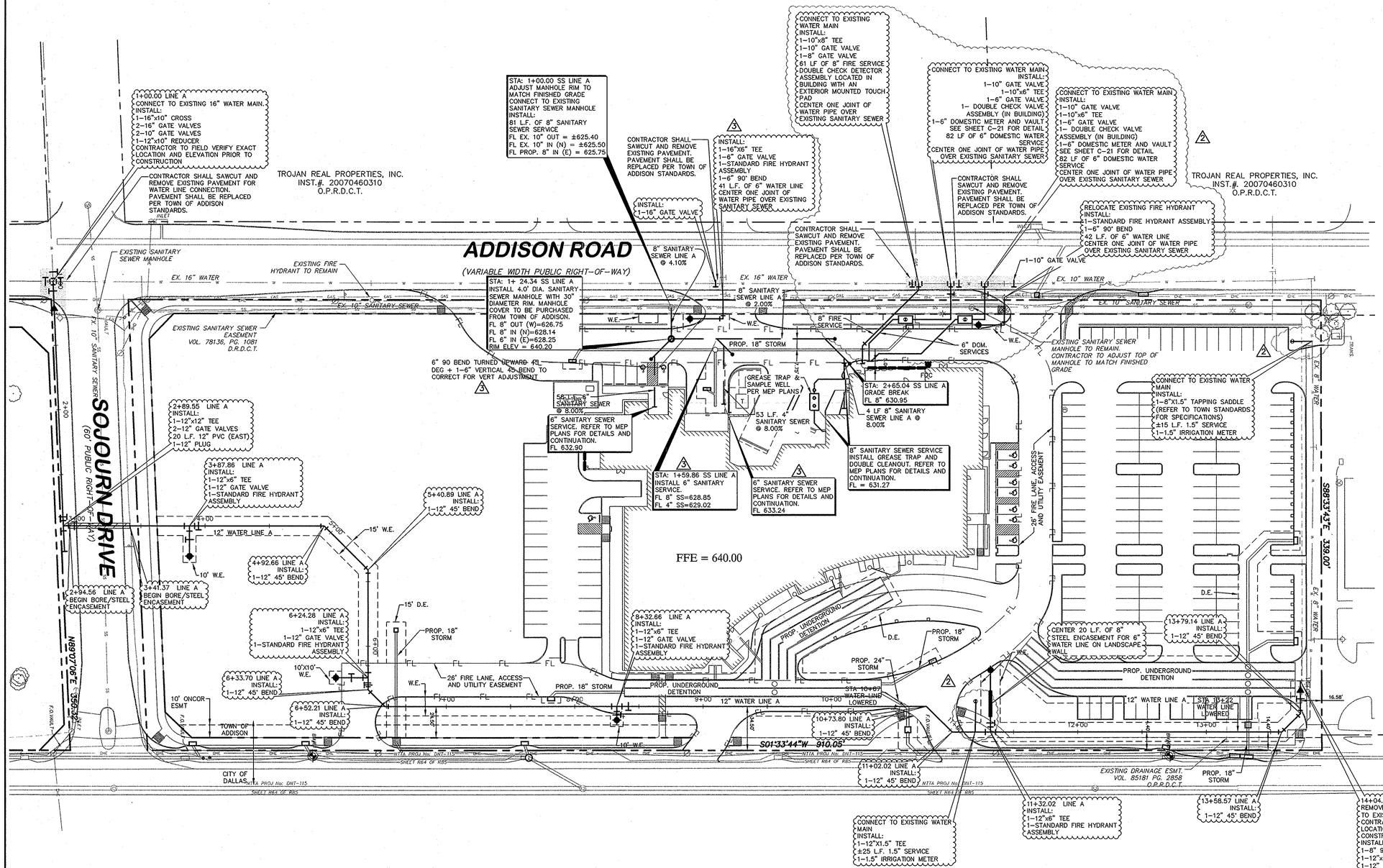
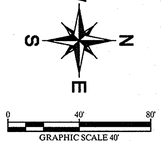




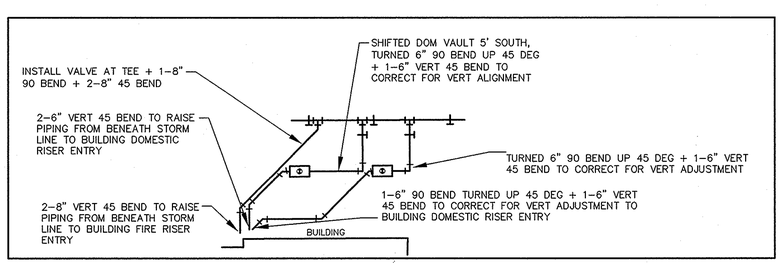
LEGEND

- PROPERTY LINE
- PROPOSED EASEMENT
- PROPOSED SANITARY SEWER LINE
- PROPOSED WATER LINE
- PROPOSED STORM SEWER LINE
- FL — PROPOSED FIRE LANE
- OHE — EXISTING OVERHEAD POWER LINE
- CBL — EXISTING CABLE LINE
- GAS — EXISTING GAS LINE
- W — EXISTING WATER LINE
- SS — EXISTING SANITARY SEWER LINE
- PROPOSED CLEANOUT
- PROPOSED FIRE HYDRANT (FH)
- PROPOSED FIRE DEPARTMENT CONNECTION (FDC)
- PROPOSED METER
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING FIRE HYDRANT
- EXISTING STORM MANHOLE
- EXISTING SAN. SWR. MANHOLE
- EXISTING SIGN

UTILITY NOTES

1. SEE MEP PLANS FOR ALL UTILITY CONNECTIONS INTO BUILDING.
2. WATER AND SEWER LINES SHALL STUB 5 FEET FROM BUILDING FOR SERVICE CONNECTIONS UNLESS OTHERWISE NOTED.
3. A FIVE FOOT CLEARANCE SHALL BE MAINTAINED AROUND ALL FIRE HYDRANTS.
4. REFER TO TOWN OF ADDISON DETAILS FOR WATER METER, METER BOX, FIRE HYDRANTS, VALVES, VALVE BOXES AND SERVICE INSTALLATION.
5. REFER TO DETAILS FOR SANITARY SEWER MANHOLE REQUIREMENTS.
6. REFER TO DETAILS FOR TRENCHING, BEDDING, BACKFILL, AND TRENCH COMPACTION REQUIREMENTS.
7. WATER AND SANITARY SEWER PIPE SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, OR PVC PIPE.
8. REFER TO ARCHITECTURE PLANS FOR LOCATION AND SIZING OF PVC SLEEVES FOR FRANCHISE UTILITIES, IRRIGATION, ETC.
9. ALL PIPE DEFLECTIONS SHALL BE PER MANUFACTURER'S SPECIFICATIONS. ANY VARIATIONS SHALL BE APPROVED IN WRITING BY THE ENGINEER BEFORE INSTALLATION.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEFLECT ELECTRIC, GAS, CABLE, AND TELEPHONE CONDUIT AND PIPING AS REQUIRED TO AVOID UTILITY CONFLICTS.
11. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY A TRAFFIC CONTROL PLAN TO THE TOWN FOR APPROVAL FOR UTILITY WORK WITHIN THE PUBLIC R.O.W.

THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION . IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE. CALL 1-800-DIG-TESS AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN VICINITY.



3 AS-BUILT DETAIL FOR FIRE AND DOMESTIC WATER SERVICE (PROVIDED BY CALHAR CONSTRUCTION, INC. 9/30/10)

STOP!
CALL BEFORE YOU DIG
DIG TESS
1-800-DIG-TESS
(@ least 72 hours prior to digging)

BENCHMARK

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No.	Date	Revisions	App.
1	10/15/10	REVISION BASED ON RECORD DWGS	
2	12/21/09	REVISION TO FIRE, IRRIGATION, AND DOMESTIC WATER CONFIGURATION	

Kimley-Horn and Associates, Inc.
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Fax No.(972) 335-3779
5750 Genesis Court, Suite 200
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State of Texas Registration No. F-928

DAVID K. KOCHALKA 87781 LICENSED PROFESSIONAL ENGINEER 10/15/10

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

UTILITY PLAN

Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	01/05/10
Project No.	69302500

SHEET
C-14

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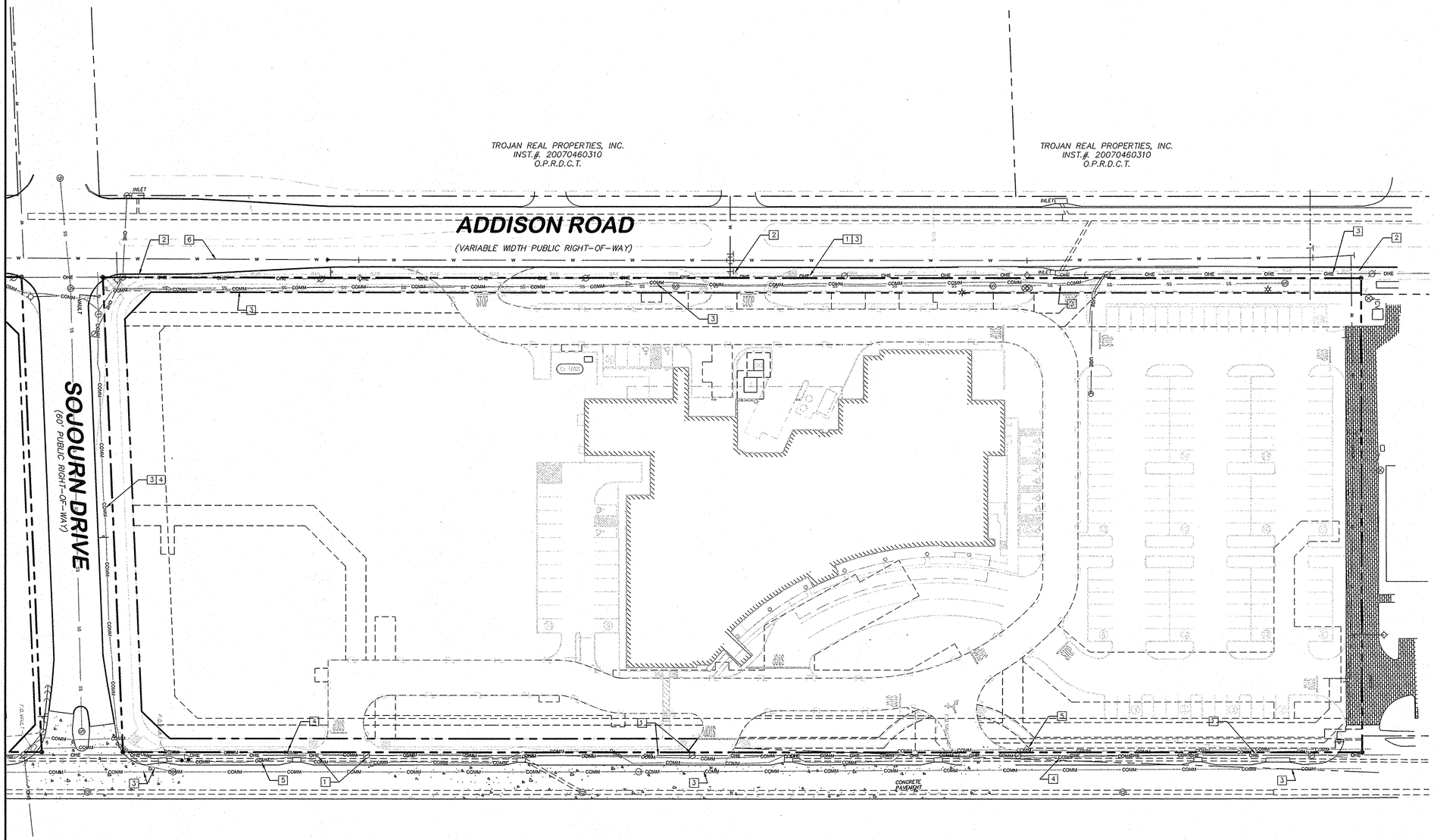

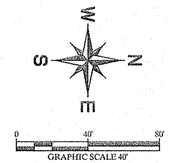

LEGEND

- PROPERTY LINE
- PROPOSED EASEMENT
- PROPOSED SANITARY SEWER LINE
- PROPOSED WATER LINE
- PROPOSED STORM SEWER LINE
- PROPOSED PRIVATE STORM SEWER LINE
- F.L. PROPOSED FIRE LANE
- CBL EXISTING CABLE LINE
- GAS EXISTING GAS LINE
- W EXISTING WATER LINE
- COMM EXISTING COMM./FIBER LINE
- OHE EXISTING OVERHEAD LINE
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING FIRE HYDRANT
- EXISTING STORM MANHOLE
- EXISTING SAN. SWR. MANHOLE
- EXISTING SIGN

KEY NOTE LEGEND

1	ONCOR (ELECTRIC) CONTACT: KAREN EASTMAN	817-335-7050
2	ATMOS ENERGY (GAS) CONTACT: GEORGE LONG	972-881-4152
3	AT&T COMMUNICATION (PHONE) CONTACT: STEVEN J. ELLIOT	972-234-7039
4	ABOVE NET (FIBER OPTIC) CONTACT:	888-636-2778
5	VERIZON TELECOM (FIBER OPTIC) CONTACT:	972-318-8973

NOTES

1. UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED AVAILABLE RECORD INFORMATION ON FILE AT THE TOWN OF ADDISON, THE APPROPRIATE PUBLIC UTILITY COMPANIES AND MARKINGS PROVIDED BY THE TEXAS ONE CALL SYSTEM (DIGTESS) LOCATE #090435206 DATED FEBRUARY 12, 2009. THIS INFORMATION HAS BEEN VERIFIED WHERE POSSIBLE BY VISIBLE UTILITY APPURTENANCES. THE ENGINEER CANNOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THESE RECORDS.

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

STOP!
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DIG TESS
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STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED
PROFESSIONAL ENGINEER
11/05/09

METHODIST HOSPITAL FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

UTILITY EXHIBIT

Scale:	AS SHOWN
Designed by:	KMH
Drawn by:	SRD
Checked by:	DKK
Date:	11/2009
Project No.	69302500

SHEET
C-14A

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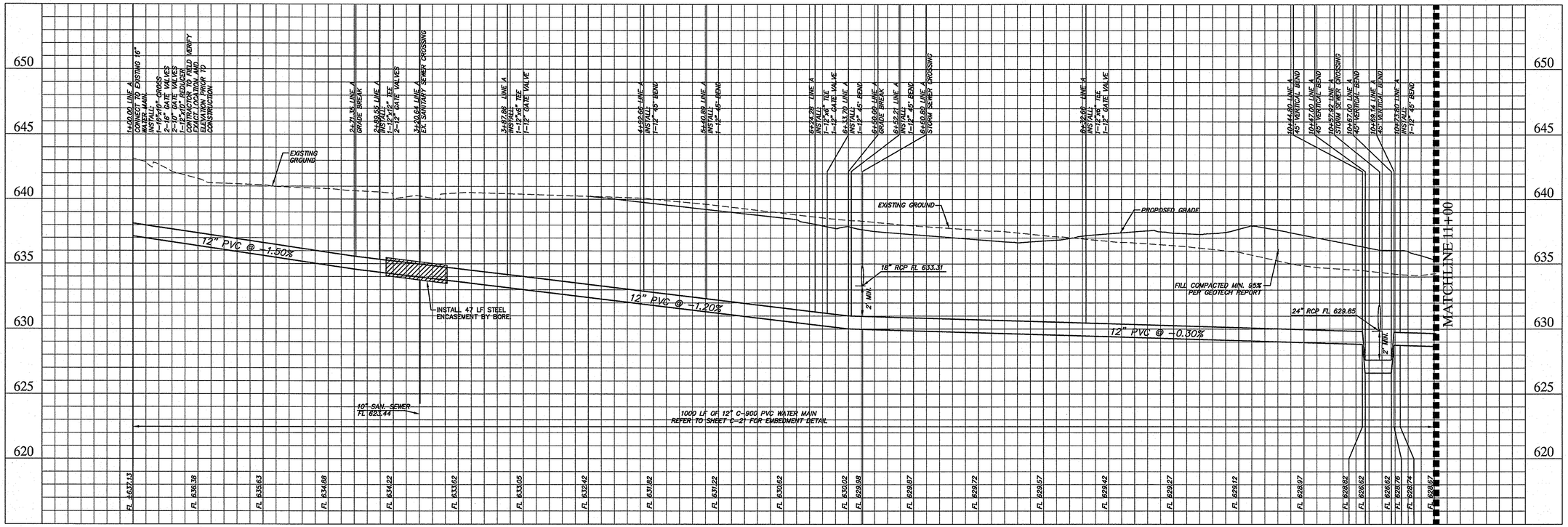

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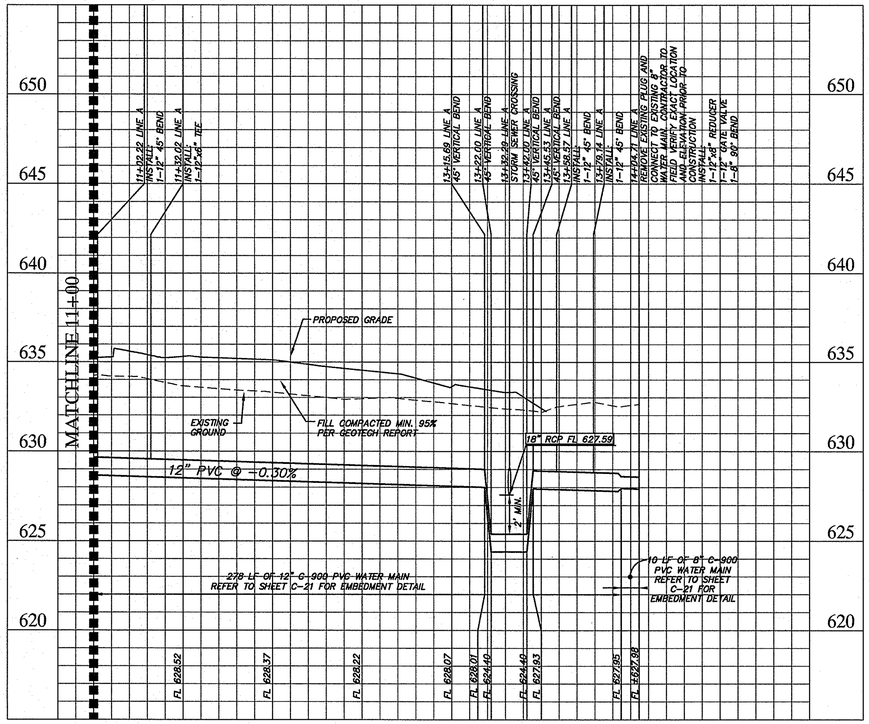

WATER LINE "A"

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

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STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED PROFESSIONAL ENGINEER
10-19

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

WATER LINE PROFILES

Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	11/5/09
Project No.	69302500

SHEET
C-15

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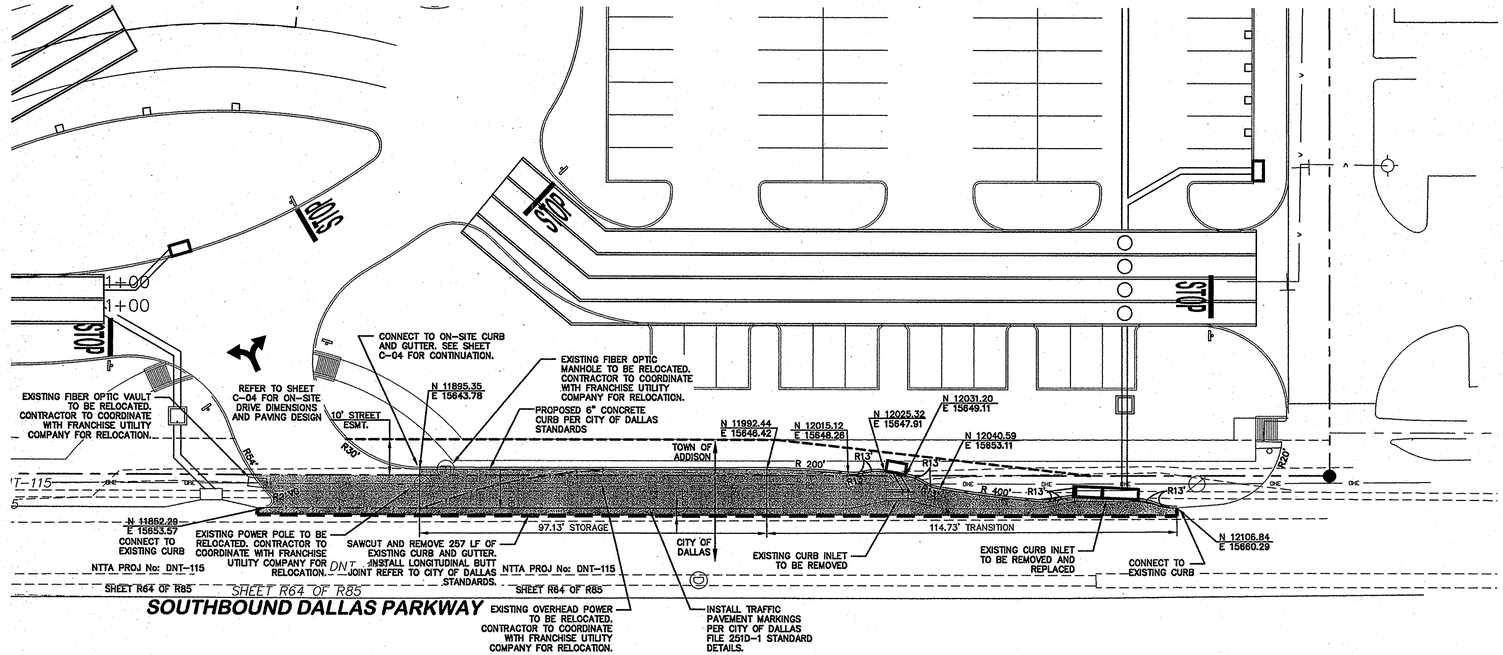

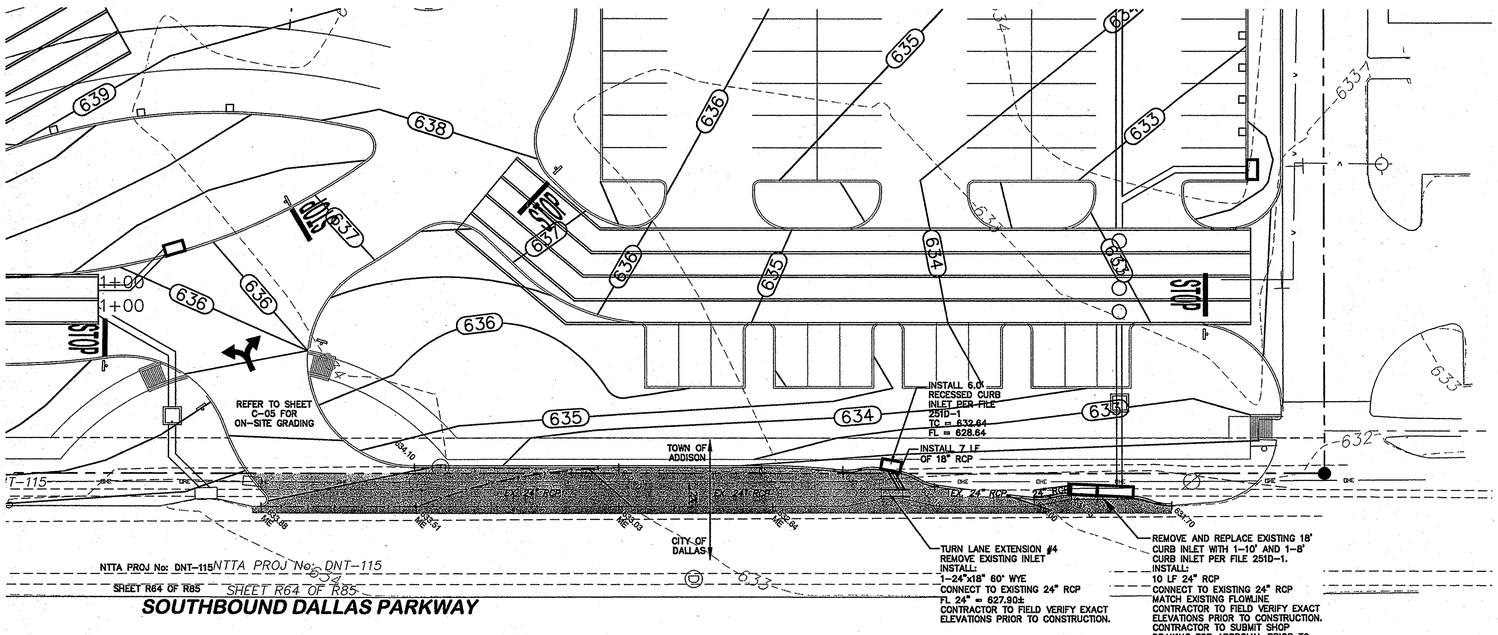

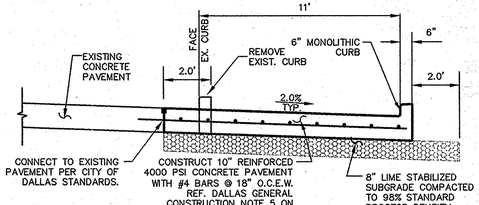

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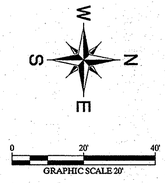
NOT TO SCALE



LEGEND

- PROPERTY LINE
- SAWCUT LINE
- VG — VALLEY GUTTER
- 631.80 ME — MATCH EXISTING ELEVATION
- HEAVY DUTY 10" REINFORCED 4000 PSI CONCRETE PAVEMENT WITH #4 BARS @ 18" O.C.E.W. ON 8" LIME STABILIZED SUBGRADE COMPACTED TO 98% STANDARD PROCTOR DENSITY (REFER TO SHEET C-02, CITY OF DALLAS GENERAL CONSTRUCTION NOTE 5).

NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB, FACE OF BUILDING, OR PROPERTY LINE UNLESS OTHERWISE NOTED.
2. ALL PARKING STALLS SHALL BE 9'x18', UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING FOOTPRINT DIMENSIONS.
4. ALL RADII ARE 3', UNLESS OTHERWISE NOTED.
5. FIRE LANE SHALL BE CONSTRUCTED PER TOWN OF ADDISON FIRE DEPARTMENT STANDARDS AND MARKED PER TOWN SPECIFICATIONS. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
6. PAVEMENT DESIGN DATA SHOWN BY REFERENCE ONLY. PAVEMENT TO BE PER GEOTECH REPORT PROJECT NO. G090336 DATED APRIL 23, 2009 BY ALPHA TESTING.
7. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND FINAL GEOTECH REPORT FOR BUILDING SUB GRADE PREPARATION REQUIREMENTS.
8. CONTRACTOR TO VERIFY T.A.S COMPLIANCE, FOR ANY QUESTIONS CONTACT CIVIL ENGINEER IMMEDIATELY.
9. CONTRACTOR TO VERIFY ENGINEERING PLANS MATCH ARCHITECTURAL PLANS BEFORE CONSTRUCTION STAKING.
10. REFER TO LANDSCAPE PLANS FOR ALL SCREENING AND OPEN SPACE CALCULATIONS.
11. REFER TO SITE LIGHTING PLANS FOR ALL LIGHTING LOCATIONS, SPECIFICATIONS, AND PHOTOMETRIC DETAILS
12. REFER TO BUILDING ELEVATION PLANS FOR ALL BUILDING SIGNAGE LOCATIONS AND DETAILS.
13. CONTRACTOR SHALL REFER TO M.E.P. AND LANDSCAPE PLANS FOR CONDUIT PLACEMENT PRIOR TO PAVING.
14. CITY OF DALLAS FORCES SHALL INSTALL ALL REQUIRED TRAFFIC SIGNS AND PAVEMENT MARKINGS WITHIN THE DALLAS PARKWAY RIGHT-OF-WAY. PLEASE CALL (214) 670-3773 TO RELEASE THE WORK ORDERS FOR THE SIGNS AND PAVEMENT MARKINGS INSTALLATIONS FOUR WEEKS PRIOR TO CONSTRUCTION COMPLETION. THE CITY OF DALLAS SHALL BE REIMBURSED FOR THE COSTS OF THE TRAFFIC SIGNS AND PAVEMENT MARKINGS.
15.
16. ALL CONSTRUCTION WITHIN CITY OF DALLAS SHALL REFER TO CITY OF DALLAS CONSTRUCTION STANDARDS SPECIFIED IN FILE 251D-1.

BENCHMARK

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RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

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DIG TESS
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State of Texas Registration No. F-928

DAVID K. KOCHALKA
87781
LICENSED PROFESSIONAL ENGINEER
12/18/09

METHODIST HOSPITAL FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

DALLAS NORTH TOLLWAY FRONTAGE ROAD TURN LANE #1

Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	11/5/09
Project No.	093025090

SHEET
C-16

IMAGES
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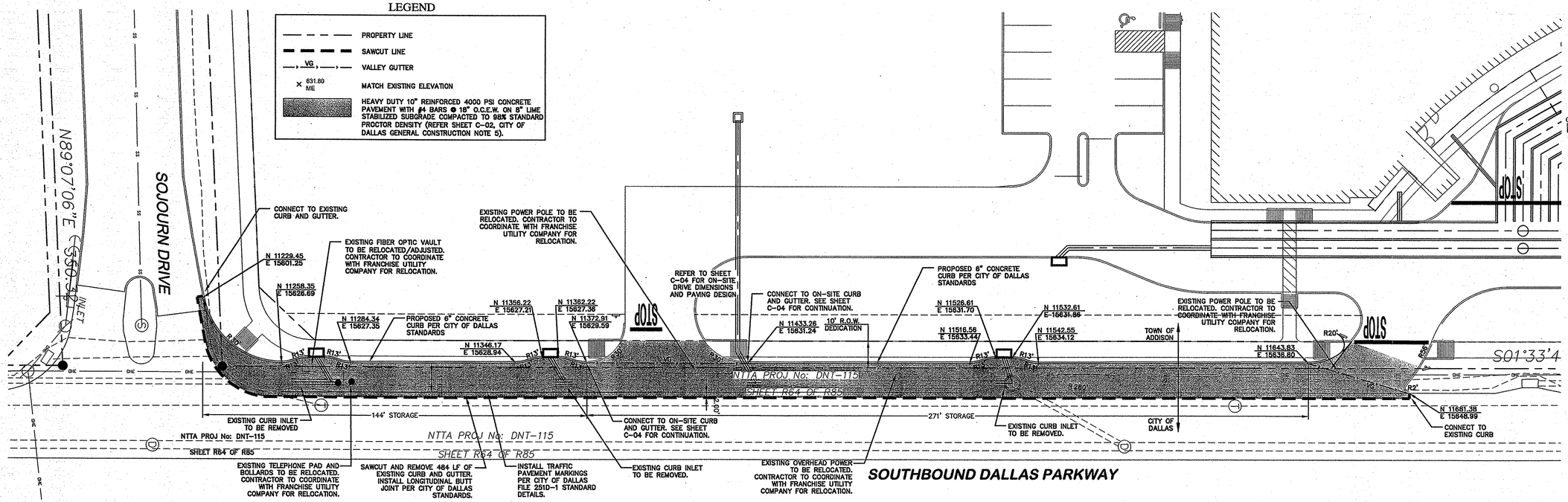
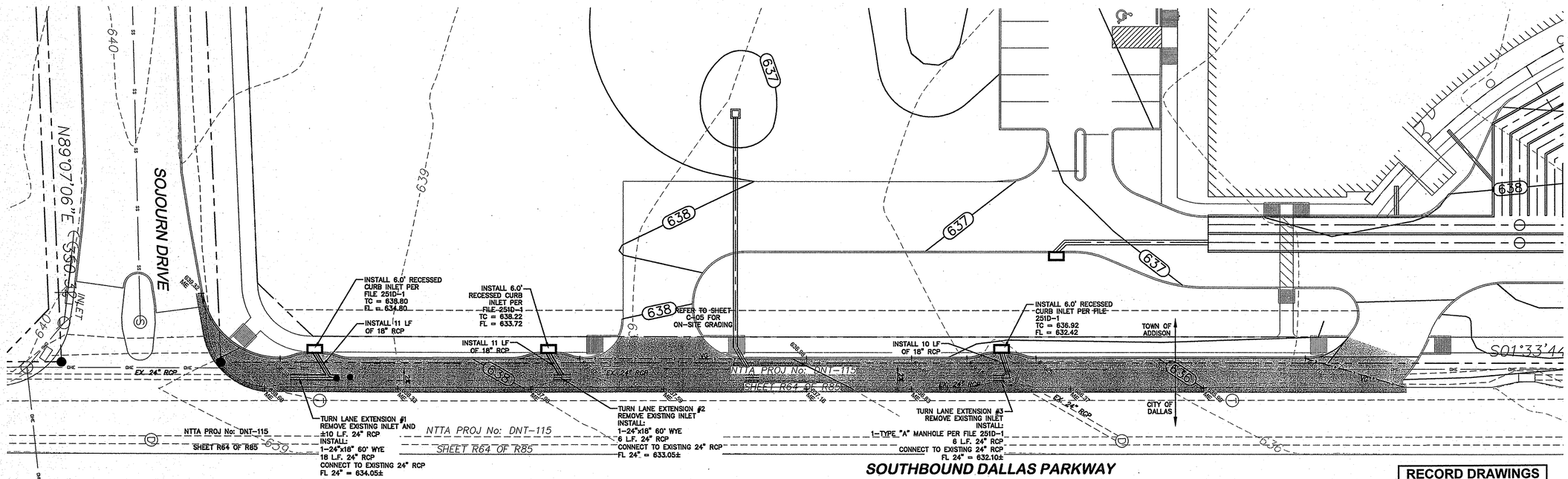
12/21/2009 4:55 PM

LEGEND

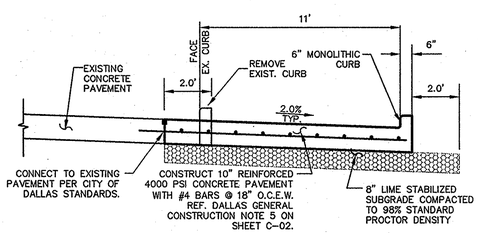
- PROPERTY LINE
- SAWCUT LINE
- VG — VALLEY GUTTER
- 631.80 ME — MATCH EXISTING ELEVATION
- HEAVY DUTY 10" REINFORCED 4000 PSI CONCRETE PAVEMENT WITH #4 BARS @ 18" O.C.E.W. ON 8" LIME STABILIZED SUBGRADE COMPACTED TO 98% STANDARD PROCTOR DENSITY (REFER SHEET C-02, CITY OF DALLAS GENERAL CONSTRUCTION NOTE 5).





NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB, FACE OF BUILDING, OR PROPERTY LINE UNLESS OTHERWISE NOTED.
2. ALL PARKING STALLS SHALL BE 9'x18', UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING FOOTPRINT DIMENSIONS.
4. ALL RADII ARE 3', UNLESS OTHERWISE NOTED.
5. FIRE LANE SHALL BE CONSTRUCTED PER TOWN OF ADDISON FIRE DEPARTMENT STANDARDS AND MARKED PER TOWN SPECIFICATIONS. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
6. PAVEMENT DESIGN DATA SHOWN BY REFERENCE ONLY. PAVEMENT TO BE PER GEOTECH REPORT PROJECT NO. G090336 DATED APRIL 23, 2009 BY ALPHA TESTING.
7. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND FINAL GEOTECH REPORT FOR BUILDING SUB GRADE PREPARATION REQUIREMENTS.
8. CONTRACTOR TO VERIFY T.A.S COMPLIANCE, FOR ANY QUESTIONS CONTACT CIVIL ENGINEER IMMEDIATELY.
9. CONTRACTOR TO VERIFY ENGINEERING PLANS MATCH ARCHITECTURAL PLANS BEFORE CONSTRUCTION STAKING.
10. REFER TO LANDSCAPE PLANS FOR ALL SCREENING AND OPEN SPACE CALCULATIONS.
11. REFER TO SITE LIGHTING PLANS FOR ALL LIGHTING LOCATIONS, SPECIFICATIONS, AND PHOTOMETRIC DETAILS
12. REFER TO BUILDING ELEVATION PLANS FOR ALL BUILDING SIGNAGE LOCATIONS AND DETAILS.
13. CONTRACTOR SHALL REFER TO M.E.P. AND LANDSCAPE PLANS FOR CONDUIT PLACEMENT PRIOR TO PAVING.
14. CITY OF DALLAS FORCES SHALL INSTALL ALL REQUIRED TRAFFIC SIGNS AND PAVEMENT MARKINGS WITHIN THE DALLAS PARKWAY RIGHT-OF-WAY. PLEASE CALL (214) 670-3773 TO RELEASE THE WORK ORDERS FOR THE SIGNS AND PAVEMENT MARKINGS INSTALLATIONS FOUR WEEKS PRIOR TO CONSTRUCTION COMPLETION. THE CITY OF DALLAS SHALL BE REIMBURSED FOR THE COSTS OF THE TRAFFIC SIGNS AND PAVEMENT MARKINGS.
15. ALL CONSTRUCTION WITHIN CITY OF DALLAS SHALL REFER TO CITY OF DALLAS CONSTRUCTION STANDARDS SPECIFIED IN FILE 251D-1.



DECELERATION LANE TYPICAL SECTION

NOT TO SCALE

BENCHMARK

1. "□" FOUND ON TOP OF THE CONCRETE BASE OF A LIGHT POLE IN THE CENTER MEDIAN OF EXCEL PARKWAY APPROXIMATELY 50 FEET WEST OF THE CENTERLINE OF ADDISON ROAD. (PER TOWN OF ADDISON PLAN # 98103, SHEET 2, DATED JANUARY 1998) ELEV=644.41
2. BM #60"⊠" SET ON TOP OF A CONCRETE CURB INLET LOCATED ON THE WEST SIDE OF DALLAS PARKWAY APPROXIMATELY 826 FEET NORTH OF THE CENTERLINE OF SOJOURN DRIVE. ELEV=632.76
3. BM #61"⊠" SET ON TOP OF A CONCRETE CURB INLET LOCATED ON THE WEST SIDE OF DALLAS PARKWAY APPROXIMATELY 160 FEET NORTH OF THE CENTERLINE OF SOJOURN DRIVE. ELEV=638.04

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

STOP! CALL BEFORE YOU DIG

DIG TESS
1-800-DIG-TESS
(@ least 72 hours prior to digging)

THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION . IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE. CALL 1-800-DIG-TESS AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN VICINITY.

GRAPHIC SCALE 20'

No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
5750 Genesis Court, Suite 200
Frisco, Texas 75034
Tel. No.(972) 335-3580
Fax No.(972) 335-3779
State of Texas Registration No. F-928

STATE OF TEXAS
DAVID K. KOCHALKA
87761
LICENSED PROFESSIONAL ENGINEER
12-15-09

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

DALLAS NORTH
TOLLWAY FRONTAGE
ROAD TURN LANE #2

Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	11/09
Project No.	69302590

SHEET
C-17

IMAGES
XREFS
XREF nOrd - XREF nBody - XREF nBdy - XREF nSite - XREF nBody-Base - XREF nBody - XREF nSite - XREF nDetails - XREF nTitle-Base - XREF nGrad - XREF nGrad-Base - XREF nSims - XREF D09098-sitework - XREF FloorPlan-LEVEL1-FLOORPLAN
PLOTTED BY
DWG NAME
LAST SAVED
R:\PR_CIVIL\69302590 - METHODIST ADDISON\DWG\PLAN SET\C-TURN LANE.DWG
12/21/2009 4:05 PM

TROJAN REAL PROPERTIES, INC.
INST.# 20070460310
O.P.R.D.C.T.

TROJAN REAL PROPERTIES, INC.
INST.# 20070460310
O.P.R.D.C.T.

ADDISON ROAD
(VARIABLE WIDTH PUBLIC RIGHT-OF-WAY)

SOJOURN DRIVE
(60' PUBLIC RIGHT-OF-WAY)

DALLAS NORTH TOLLWAY
(VARIABLE WIDTH PUBLIC RIGHT-OF-WAY)

TOWN OF ADDISON

CITY OF DALLAS

NTTA PROJ No: DNT-115
SHEET R64 OF R85

FF= 640.00

N89°07'06"E 336.42'

S88°33'43"E 339.00'

0 40' 80'
GRAPHIC SCALE 40'

LEGEND

- PROPERTY LINE
- 694 PROPOSED CONTOUR
- 696 EXISTING CONTOUR
- SF SILT FENCE
- LIMITS OF DISTURBANCE
- IP INLET PROTECTION
- CE CONSTRUCTION ENTRANCE

EROSION CONTROL SCHEDULE AND PHASING

THE PROJECT SHALL GENERALLY CONFORM TO THE FOLLOWING:

PHASE 1 – GRADING
A. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE AND INLET PROTECTION ACCORDING TO THE APPROXIMATE LOCATION SHOWN ON THE GRADING AND EROSION CONTROL PLAN NOTES AND DETAIL SHEET.
B. BEGIN CLEARING AND GRADING OF SITE.
C. SEED AND REVEGETATE SLOPES WHERE NECESSARY.

PHASE 2 – UTILITIES
A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
B. INSTALL STORM DRAINS AND INLET PROTECTION AS SPECIFIED ON PLAN SHEETS.

PHASE 3 – PAVING
A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE. REMOVE AS NEEDED TO PAVE.
B. STABILIZE SUBGRADE.
C. PAVE PARKING LOT AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS.

PHASE 4 – LANDSCAPING AND DEVELOPMENT
A. REVEGETATE LOT AND PARKWAYS
B. LANDSCAPE CONTRACTOR SHALL REVEGETATE ALL AREAS RESERVED FOR LANDSCAPE VEGETATIVE COVERS.
C. REMOVE EROSION CONTROL DEVICES WHEN GROUND COVER ESTABLISHED.

SITE MAP-GENERAL NOTES

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS – CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.

2. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.

3. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.

4. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.

5. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.

6. SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.

7. NO STEEL POSTS IN TOWN R.O.W.

VEGETATIVE STABILIZATION REQUIREMENTS

TEMPORARY SEEDING

ALL DISTURBED AREAS WHICH WILL BE LEFT DORMANT FOR GREATER THAN 14 DAYS SHALL BE SEEDED WITH FAST-GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING OPERATIONS. SELECTION OF THE SEED WILL DEPEND ON THE TIME OF YEAR IT IS APPLIED (SEE DESCRIPTIONS IN TABLE 2). REFERENCE LANDSCAPE PLAN FOR PERMANENT STABILIZATION REQUIREMENTS. ALL TEMPORARY SEEDING MATERIALS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO APPLICATION.

TABLE 2
VEGETATION TABLE*

TEMPORARY SEEDING

SPECIES	PLANTING RATE	PLANTING-DATES
CRIMSON CLOVER	7#/ACRE	8/15 – 11/30
MILLET, FOXTAIL	30#/ACRE	5/1 – 8/31
RYEGRASS, ANNUAL	30#/ACRE	8/15 – 9/30
SPRANGLETOP, GREEN	2.5#/ACRE	2/1 – 5/1
TALL FESCUE	7#–10#/1000 SF	9/1 – 10/15

*USE ONLY USDA CERTIFIED SEED.

SURFACE PREPARATION FOR TEMPORARY SEEDING

1. INSTALL EROSION STRUCTURES SUCH AS DIKES, DIVERSIONS, ETC. PRIOR TO SEEDING.

2. FURROW SLOPES STEEPER THAN 3:1 ON THE CONTOUR LINE BEFORE SEEDING.

3. ENSURE SEED BED IS PULVERIZED, LOOSE, AND UNIFORM.

APPLICATION

1. WHEN HYDROMULCHING IS USED, DO NOT MIX SEED AND FERTILIZER MORE THAN 30 MINUTES PRIOR TO APPLICATION.

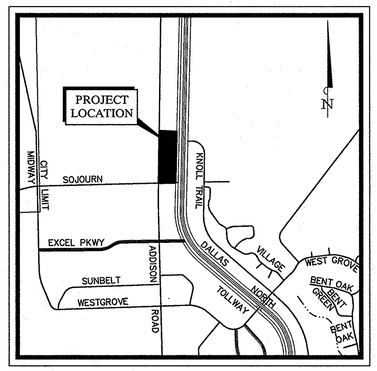
2. APPLY SEED EVENLY USING PROPER EQUIPMENT AND WATER TO AID VEGETATION GROWTH.

3. EROSION CONTROL NETTING SHALL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDED TO PROTECT AGAINST EROSION. MULCH (STRAW OR FIBER) SHALL BE USED ON RELATIVELY FLAT SLOPES.

SITE DATA

TOTAL SITE AREA	7.16 AC.
TOTAL SITE AREA DISTURBED	7.00 AC.
TOTAL OFF-SITE AREA DISTURBED	0.00 AC.
TOTAL AREA DISTURBED *	7.00 AC.
NEW PAVED AREA	2.73 AC.
NEW ROOFED AREA	1.27 AC.
NEW SEEDED\GROUNDCOVER AREA	3.16 AC.
PRE-DEVELOPMENT RUNOFF COEFFICIENT	0.30
POST-DEVELOPMENT RUNOFF COEFFICIENT	0.90

* DOES NOT INCLUDE ANY OFF-SITE DISPOSAL OR BORROW AREAS – CONTRACTOR TO UPDATE AS NECESSARY DURING CONSTRUCTION.



VICINITY MAP
N.T.S.

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION . IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE. CALL 1-800-DIG-TESS AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN VICINITY.

STANDARD EROSION CONTROL GENERAL NOTES

1. EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES ON THE PROJECT.

2. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE TOWN OF ADDISON ENGINEERING DEPARTMENT.

3. IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON SITE.

4. IF OFF-SITE BORROW OR SPOILS SITES ARE USED IN CONJUNCTION WITH THIS PROJECT, THIS INFORMATION SHALL BE DISCLOSED AND SHOWN ON THE EROSION CONTROL PLAN. OFF-SITE BORROW AND SPOILS AREAS ARE CONSIDERED PART OF THE PROJECT SITE AND THEREFORE SHALL COMPLY WITH THE TOWN OF ADDISON EROSION CONTROL REQUIREMENTS. THESE AREAS SHALL BE STABILIZED WITH GROUND COVER PRIOR TO FINAL APPROVAL OF THE PROJECT.

STOP!
CALL BEFORE YOU DIG
DIG TESS
1-800-DIG-TESS
(@ least 72 hours prior to digging)

BENCHMARK

1. "CT" FOUND ON TOP OF THE CONCRETE BASE OF A LIGHT POLE IN THE CENTER MEDIAN OF EXCEL PARKWAY APPROXIMATELY 50 FEET WEST OF THE CENTERLINE OF ADDISON ROAD. (PER TOWN OF ADDISON PLAN # 96103, SHEET 2, DATED JANUARY 1998) ELEV=644.41

2. BM #60"CT" SET ON TOP OF A CONCRETE CURB INLET LOCATED ON THE WEST SIDE OF DALLAS PARKWAY APPROXIMATELY 826 FEET NORTH OF THE CENTERLINE OF SOJOURN DRIVE. ELEV=632.78

3. BM #61"CT" SET ON TOP OF A CONCRETE CURB INLET LOCATED ON THE WEST SIDE OF DALLAS PARKWAY APPROXIMATELY 160 FEET NORTH OF THE CENTERLINE OF SOJOURN DRIVE. ELEV=638.04

No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
Tel. No.(972) 335-3580
Fax No.(972) 335-3779
5750 Genesis Court, Suite 200
Frisco, Texas 75034
State of Texas Registration No. F-928

STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED
PROFESSIONAL ENGINEER
11/10/09

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

EROSION CONTROL PLAN

Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	11/10/09
Project No.	69302500

SHEET
C-18

IMAGES
XREF: <ALL> XREF-dTrdy> XREF-dTrdy-Base . XREF-dGrad . XREF-dGrad-Base . XREF-dSite . XREF-dSite-Base . XREF-dUtil-Base
XREF: C-TOTL-WIRE2000 . METHODIST ADDISON\DWG\FLAN\SETC-ERKSL.DWG
PLOTTED BY: BRASWELL, TREY 11/4/2009 3:52 PM
DWG NAME: X:\FRI\CIVIL\WIRE2000 . METHODIST ADDISON\DWG\FLAN\SETC-ERKSL.DWG
LAYOUT: LU-ERKSL

CONSTRUCTION SPECIFICATIONS FOR SILT BARRIER FENCE MATERIALS:

1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS (PER ASTM METHODS):

PHYSICAL PROPERTY	REQUIREMENTS
FILTERING EFFICIENCY	75% (MIN.)

TENSILE STRENGTH AT 20% EXT. STRENGTH = 50 LBS./LIN. IN. (MIN.)

MAXIMUM ELONGATION STD. STRENGTH = 30 LBS./LIN. IN. (MIN.)

FLOW RATE 30 GAL./SQ. FT./MINUTE (MIN.)

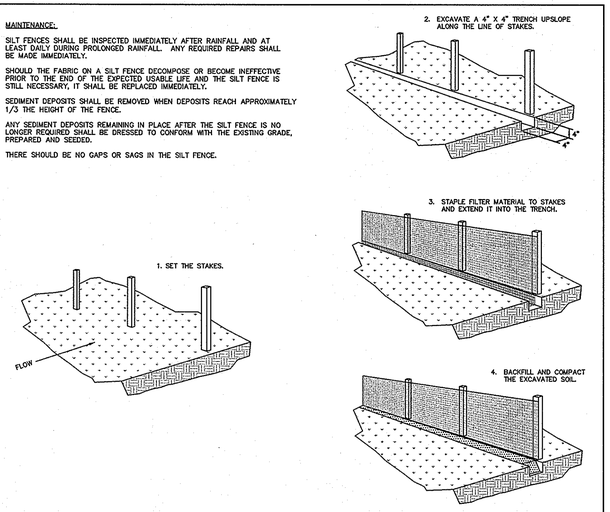
2. SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0° TO 120°.

INSTALLATION:

1. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 15" AND A MAXIMUM OF 18" ABOVE FINAL GRADE.
2. STANDARD STRENGTH SYNTHETIC FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS (AND THUS IMPROVE THE BARRIER'S STRENGTH AND EFFICIENCY).
3. STAKES FOR THE SILT FENCE SHALL BE 2"x 2" WOOD WITH A MINIMUM LENGTH OF 3 FEET.
4. THE STAKES SHALL BE SPACED A MAXIMUM OF 5 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (18" MIN.).
5. A TRENCH SHALL BE EXCAVATED APPROX. 6" WIDE AND 6" DEEP ALONG THE LINE OF STAKES AND UPSLOPE FROM THE BARRIER.
6. THE SILT FENCE SHALL BE STAPLED TO THE STAKES WITH 8" (MIN.) OF FABRIC EXTENDED INTO THE TRENCH. HEAVY DUTY WIRE STAPLES (1/2 INCH LONG MIN.) SHALL BE USED. THE FENCE SHALL NOT BE STAPLED TO EXISTING TREES.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FENCE MATERIAL.
8. IF A SILT FENCE IS TO BE CONSTRUCTED ACROSS A DITCH LINE OR SWALE, THE BARRIER SHALL BE OF SUFFICIENT LENGTH TO ELIMINATE END FLOW. THE PLAN CONFIGURATION SHALL RESEMBLE AN ARC OR HORSESHOE WITH THE ENDS ORIENTED UPSLOPE.
9. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

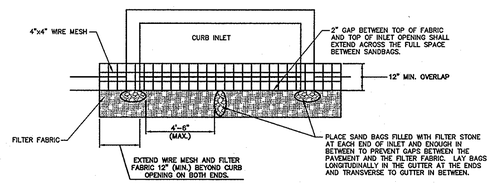
MAINTENANCE:

6. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
7. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE SILT FENCE IS STILL NECESSARY, IT SHALL BE REPLACED IMMEDIATELY.
8. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE.
9. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
10. THERE SHOULD BE NO GAPS OR SAGS IN THE SILT FENCE.

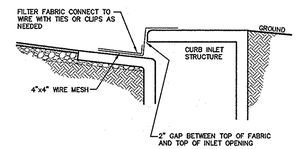


CONSTRUCTION OF A FILTER BARRIER
N.T.S.

NOTE:
VERTICAL PANEL BARRICADES TO BE PLACED WHEN LOCATED ON AN ACTIVE STREET.



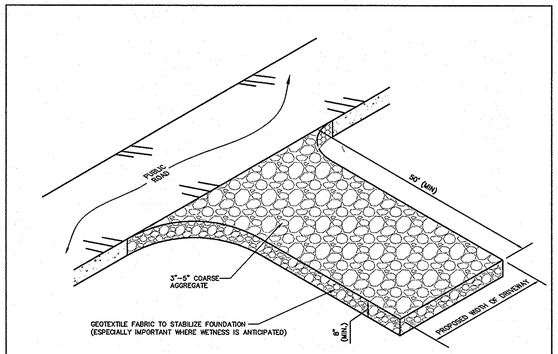
INLET PLAN VIEW



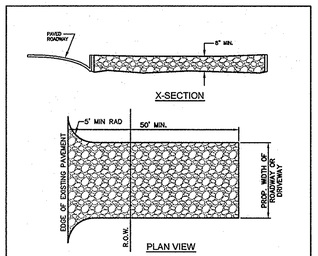
INLET SECTION

TYPE C CURB INLET PROTECTION
INLET PROTECTOR DETAILS

TYPE C CURB INLET PROTECTION
N.T.S.



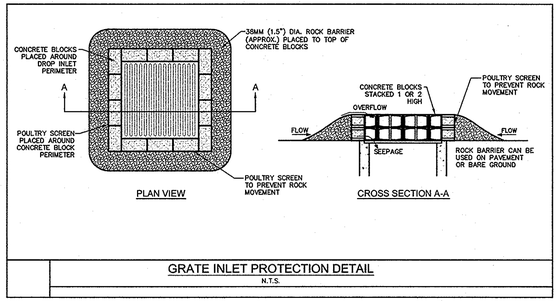
CONSTRUCTION ENTRANCE
N.T.S.



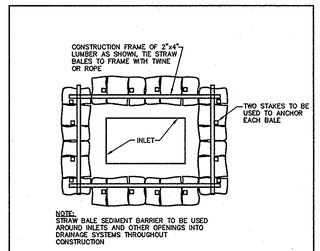
NOTES:

1. Stone size – 3 to 5 inches crushed rock.
2. Length – as effective, but not less than 50 feet.
3. Thickness – not less than 8 inches.
4. Width – not less than full width of all points of ingress or egress.
5. Washing – when necessary, wheels shall be cleaned to remove sediment prior to entrance onto public roadway. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch or watercourse using approved methods.
6. Maintenance – the entrance shall be maintained in condition which will prevent tracking or flowing of sediment onto public roadways. This may require periodic top dressing with additional stone as conditions demand, and repair and/or clean out of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public roadway, must be removed immediately.
7. Drainage – entrance must be properly graded or incorporate a drainage swale to prevent runoff from leaving the construction site.
8. Contractor to coordinate exact location of this detail.

CE CONSTRUCTION ENTRANCE
N.T.S.



GRATE INLET PROTECTION DETAIL
N.T.S.



TYPE "Y" INLET PROTECTION

GENERAL NOTES:

1. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE AND SHALL REMAIN IN PLACE UNTIL FINAL GRADING AND PAVING IS COMPLETE AND A STAND OF GRASS IS ESTABLISHED WITH 70% COVERAGE ACHIEVED.
2. CONSTRUCTION OPERATIONS SHALL BE MANAGED SO THAT AS MUCH OF THE SITE AS POSSIBLE IS LEFT COVERED WITH TOPSOIL AND VEGETATION.
3. ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS MUST BE SEEDED AND IRRIGATED UNTIL A PERMANENT STAND OF GRASS IS ACHIEVED WITH A MINIMUM OF 70% COVERAGE.
4. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE AND THE ESTABLISHMENT OF A STAND OF GRASS SUFFICIENT TO PREVENT EROSION.
5. THE CONTRACTOR MUST USE SEDIMENT FILTERS OR OTHER MEASURES APPROVED BY THE ENGINEER AND CONSTRUCTION MANAGER TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM CLOGGING STORM SEWER PIPES OR PROPOSED OR EXISTING INLETS, OR FROM BEING TRANSPORTED TO ADJACENT PROPERTIES.
6. CONSTRUCTION ENTRANCE
   MINIMUM SIZE STONE: 3"–5" CRUSHED ROCK
   THICKNESS: NOT LESS THAN 8"
   LENGTH: NOT LESS THAN 100'
   WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS AND EGRESS.
   MAINTENANCE REQUIREMENTS: AS NECESSARY TO PREVENT TRACKING OR FLOWING MUD INTO PUBLIC RIGHT–OF–WAY OR PARKING AREAS.
7. PLACE INLET PROTECTION AROUND ALL PROPOSED INLETS DURING CONSTRUCTION.
8. SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON A PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE TO A PUBLIC ROADWAY, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL FINES IMPOSED FOR TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR.
9. MAINTENANCE, EROSION CONTROLS SHALL BE REPAIRED OR REPLACED AS INSPECTION DEEMS NECESSARY, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ACCUMULATED SILT IN ANY EROSION CONTROL DEVICE SHALL BE REMOVED AND SHALL BE DISTRIBUTED ON SITE IN A MANNER NOT CONTRIBUTING TO ADDITIONAL SILTATION.
10. EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLETS, OR IN CHANNELS, DRAINAGE WAYS OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGE WAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREDGED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.
11. THE CONTRACTOR IS RESPONSIBLE FOR REESTABLISHING ANY EROSION CONTROL DEVICE WHICH THEY DISTURB. EACH CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DEFICIENCIES IN THE ESTABLISHED EROSION CONTROL MEASURES WHICH MAY LEAD TO UNAUTHORIZED DISCHARGE OR STORM WATER POLLUTION. SEDIMENTATION OR OTHER POLLUTANTS. UNAUTHORIZED POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO, EXCESS CONCRETE DUMPING OR CONCRETE RESIDUE, PAINTS, SOLVENTS, GREASES, FUEL AND LUBE OIL, PESTICIDES, AND SOLID WASTE MATERIALS.
12. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE FILTER BARRIER (OR OTHER METHOD APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
13. THE CONTRACTOR SHALL CONSTRUCT FILTER BARRIER, STRAW BALES OR OTHER APPROVED DEVICES PRIOR TO CONSTRUCTION TO PREVENT ADVERSE OFF SITE IMPACT OR STORM WATER QUALITY AND AS REQUIRED BY THE CITY OF FORT WORTH. CONTRACTOR IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE REQUIRED EROSION CONTROL DEVICES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
14. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS OFF SITE FROM THE EXISTING ROADWAYS AND PROJECT SITE THAT ARE A RESULT OF THE PROPOSED CONSTRUCTION AS REQUESTED BY THE CITY OF FORT WORTH.
15. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS. CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL CONSTRUCTION TRAFFIC UTILIZES THE STABILIZED ENTRANCE AT ALL TIMES FOR INGRESS/EGRESS TO THE SITE.
16. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE CITY AND ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
17. BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF CONSTRUCTION AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROTECT AND PRESERVE CONTROL POINTS AT ALL TIMES DURING THE COURSE OF THE PROJECT. THE GRADING CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
18. THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES UNLESS NOTED OTHERWISE.
19. CONTRACTOR STAGING AREA TO BE AGREED UPON BY OWNER PRIOR TO CONSTRUCTION.

NOTE:

FOR WORK WITHIN THE CITY OF DALLAS REFER TO THE CITY OF DALLAS CONSTRUCTION STANDARDS AS SPECIFIED IN THE FILE 251D–1.

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
5750 Genesis Court, Suite 200
Frisco, Texas 75034
Tel. No.(972) 335-3580
Fax No.(972) 335-3779
State of Texas Registration No. F-928

STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED
PROFESSIONAL ENGINEER
11/10/09

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

EROSION CONTROL DETAILS

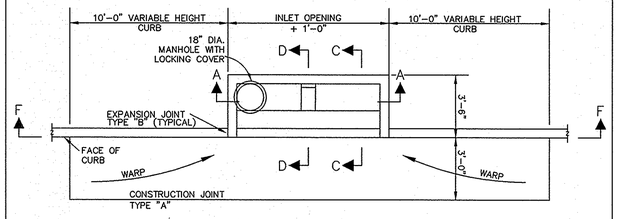
Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	11/2/09
Project No.	69092500

SHEET
C-19

IMAGES
XREFS
PLOTTED BY
DWG NAME
LAYOUT
X:\SF-0426 BRASWELL, TREY 11/4/2009 3:53 PM
R:\FRISCO\TT\69092500 - METHODIST ADDISON\WORK\PLAN SET\C-EROS-DETL.DWG
11/02/2009 3:52 PM

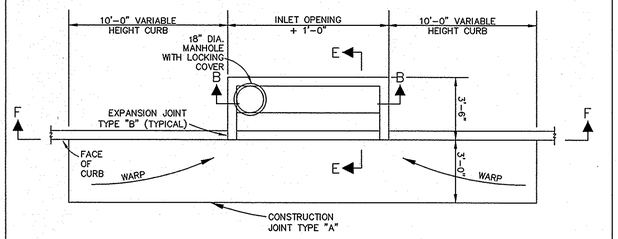
GENERAL NOTES:

1. OUTLET PIPE MAY BE LOCATED IN ANY WALL BUT SHALL NOT BE LOCATED AT ANY CORNER OR PILASTER.
2. MANHOLE RING WITH LOCKING COVER SHALL BE PLACED OVER THE OUTLET PIPE, REINFORCING BARS ARE TO BE ADJUSTED ACCORDINGLY.



12 AND 14 FOOT CURB LINE INLET

N.T.S.



8 AND 10 FOOT CURB LINE INLET

N.T.S.

GENERAL DESIGN STANDARDS
DRAINAGE DETAILS

CURB LINE INLET PLAN VIEW

SCALE: N.T.S. DATE: 1/2001
SHEET NUMBER: 1 OF 6 SHEETS

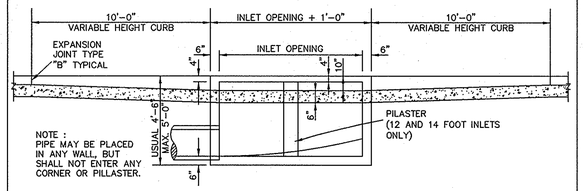
D-1

DEPARTMENT OF PUBLIC WORKS

CARROLLTON

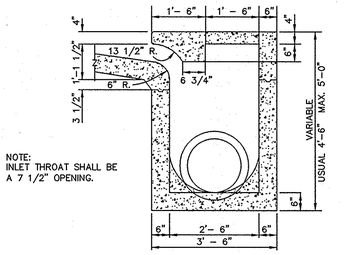
FILENAME: D-1_1-6.dwg

1945 E. JACKSON ROAD CARROLLTON, TEXAS 75006 WWW.CI.CARROLLTON.TX.US (972)466-3200



SECTION F-F

N.T.S.



TYPICAL CROSS SECTION

N.T.S.

GENERAL DESIGN STANDARDS
DRAINAGE DETAILS

CURB LINE INLET CROSS SECTIONS

SCALE: N.T.S. DATE: 1/2001
SHEET NUMBER: 3 OF 6 SHEETS

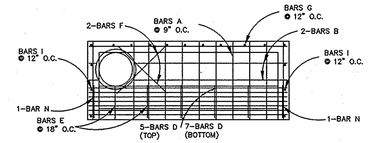
D-1

DEPARTMENT OF PUBLIC WORKS

CARROLLTON

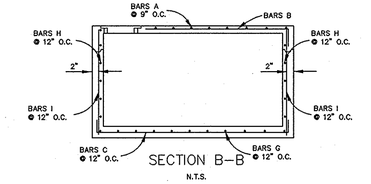
FILENAME: D-1_3-6.dwg

1945 E. JACKSON ROAD CARROLLTON, TEXAS 75006 WWW.CI.CARROLLTON.TX.US (972)466-3200



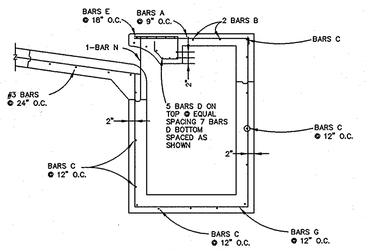
PLAN VIEW (8 AND 10 FOOT INLET)

N.T.S.



SECTION B-B

N.T.S.



SECTION E-E

N.T.S.

GENERAL DESIGN STANDARDS
DRAINAGE DETAILS

CURB LINE INLET REINFORCING

SCALE: N.T.S. DATE: 1/2001
SHEET NUMBER: 4 OF 6 SHEETS

D-1

DEPARTMENT OF PUBLIC WORKS

CARROLLTON

FILENAME: D-1_4-6.dwg

1945 E. JACKSON ROAD CARROLLTON, TEXAS 75006 WWW.CI.CARROLLTON.TX.US (972)466-3200

REINFORCING BAR SCHEDULE

INLET LENGTH	BAR MARK NUMBER	BAR DIAGRAM TYPE	BAR SIZE	NUMBER REQUIRED	BAR BENDING DIMENSIONS A	B	C
8	A	I	#3	9	3'-2"	6"	--
	B	I	#3	2	6'-8"	6"	--
	C	II	#4	VARIES	8'-8"	6"	--
	D	II	#4	12	8'-8"	6"	--
	E	IV	#3	7	*	*	*
	F	III	#3	2	4'-0"	--	--
	G	V	#4	10	**	3"-2"	**
	H	III	#4	VARIES	3'-2"	--	--
	I	III	#4	4	**	--	--
	N	III	#4	2	1'-6"	--	--
10	A	I	#3	14	3'-2"	6"	--
	B	I	#3	2	8'-8"	6"	--
	C	II	#4	VARIES	10'-8"	6"	--
	D	II	#4	12	10'-8"	6"	--
	E	IV	#3	8	*	*	*
	F	III	#3	2	4'-0"	--	--
	G	V	#4	12	**	3"-2"	**
	H	III	#4	VARIES	3'-2"	--	--
	I	III	#4	4	**	--	--
	N	III	#4	2	1'-6"	--	--
12	A	I	#3	10	3'-2"	6"	--
	B	I	#3	2	10'-8"	6"	--
	C	II	#4	VARIES	12'-8"	6"	--
	D	II	#5	6	12'-8"	--	--
	E	IV	#3	12	*	*	*
	F	III	#3	2	4'-0"	--	--
	G	V	#4	10	**	3"-2"	**
	H	III	#4	VARIES	3'-2"	--	--
	I	III	#4	4	**	--	--
	L	III	#4	5	**	--	--
	M	III	#4	5	2'-8"	6"	--
	N	III	#4	2	1'-6"	--	--
	P	I	#5	9	3'-2"	6"	--
	R	V	#5	9	**	3"-2"	**
14	A	I	#3	14	3'-2"	6"	--
	B	I	#3	2	12'-8"	6"	--
	C	II	#4	VARIES	14'-8"	6"	--
	D	II	#5	6	14'-8"	--	--
	E	IV	#3	16	*	*	*
	F	III	#3	2	4'-0"	--	--
	G	V	#4	14	**	3"-2"	**
	H	III	#4	VARIES	3'-2"	--	--
	I	III	#4	4	**	--	--
	L	III	#4	5	**	--	--
	M	III	#4	5	2'-8"	6"	--
	N	III	#4	2	1'-6"	--	--
	P	I	#5	9	3'-2"	6"	--
	R	V	#5	9	**	3"-2"	**

* SEE BAR DIAGRAM FOR DIMENSIONS.
** LENGTH VARIES DUE TO DEPTH OF INLET.

BAR DIAGRAM

GENERAL DESIGN STANDARDS
DRAINAGE DETAILS

CURB LINE INLET
REINFORCING BAR SCHEDULE

SCALE: N.T.S. DATE: 1/2001
SHEET NUMBER: 6 OF 6 SHEETS

D-1

DEPARTMENT OF PUBLIC WORKS

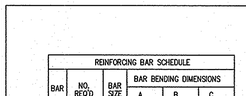
CARROLLTON

FILENAME: D-1_6-6.dwg

1945 E. JACKSON ROAD CARROLLTON, TEXAS 75006 WWW.CI.CARROLLTON.TX.US (972)466-3200

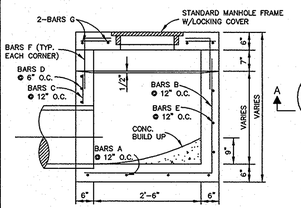
NOTE:

FOR WORK WITHIN THE CITY OF DALLAS REFER TO THE CITY OF DALLAS CONSTRUCTION STANDARDS AS SPECIFIED IN THE FILE 251D-1.



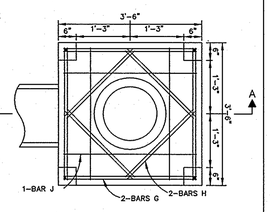
BAR	NO. REQ'D	BAR SIZE	BAR BENDING DIMENSIONS A	B	C
A	4	#4	VARIES	3'-0"	VARIES
B	4	#4	3'-0"	VARIES	--
C	2	#4	VARIES	--	--
D	VARIES	#4	3'-0"	--	--
E	VARIES	#4	3'-0"	3'-0"	3'-0"
F	4	#4	1'-0"	2'-0"	--
G	8	#4	3'-0"	--	--
H	8	#4	3'-1"	--	--
J	4	#4	3'-2"	--	--

NOTE:
BARS "A" & "E" ARE USED IN THE WALLS PARALLEL TO THE R.C.P., BARS "B" ARE IN THE WALL OPPOSITE THE R.C.P..



SECTION A-A

N.T.S.



PLAN VIEW

N.T.S.

GENERAL DESIGN STANDARDS
DRAINAGE DETAILS

"Y" TYPE INLET
DETAILS

SCALE: N.T.S. DATE: 1/2001
SHEET NUMBER: 1 OF 1 SHEETS

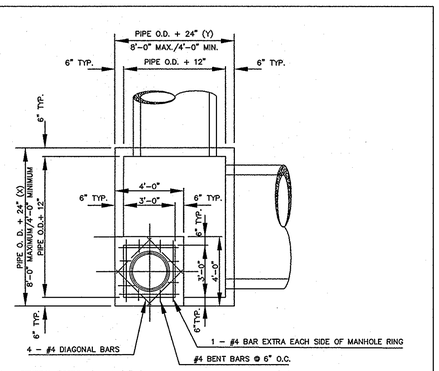
D-2

DEPARTMENT OF PUBLIC WORKS

CARROLLTON

FILENAME: D-2_1-1.dwg

1945 E. JACKSON ROAD CARROLLTON, TEXAS 75006 WWW.CI.CARROLLTON.TX.US (972)466-3200



GENERAL NOTES:

ALL EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER. AN ALTERNATE DESIGN (BEARING THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER) WILL BE ACCEPTABLE FOR PRECAST CONSTRUCTION OF MANHOLES AND/OR EQUIVALENT STRUCTURAL DESIGN WITH THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.

IN AREAS OF CONFLICT BETWEEN REINFORCING STEEL, BLOCKOUTS, PIPES, ANCHOR BOLTS OR OTHER REINFORCING STEEL, THE REINFORCEMENT SHALL BE BENT OR ADJUSTED TO CLEAR AS DIRECTED BY THE DESIGNING ENGINEER.

CONNECTING PIPES SHOULD ENTER WITHIN TEN (10) DEGREES OF NORMAL TO THE INLET WALL. IF NECESSARY, PIPE ELBOWS OR CURVED APPROACH ALIGNMENT SHOULD BE USED TO STAY WITHIN THIS LIMIT. PIPES MAY ENTER ANY OR ALL WALLS, EXCEPT AT CORNERS. THE MAXIMUM SIZE OF PIPE THAT CAN BE ACCOMMODATED IS 60 INCHES IN DIAMETER, MORE THAN ONE PIPE MAY ENTER A SIDE, SUBJECT TO THE MAXIMUM BOX DIMENSIONS SHOWN. THE CLEAR DISTANCE BETWEEN ADJACENT PIPES SHOULD BE A MINIMUM OF 9 INCHES.

MINIMUM REBAR LAP IS TO BE THIRTY (30) BAR DIAMETERS (MINIMUM LENGTH OF 18 INCHES).

MANHOLE STEPS, WHERE SHOWN AND NOT OBSTRUCTED BY PIPE OPENINGS, ARE TO BE CONTINUED TO WITHIN 12 INCHES OF FINISHED MANHOLE FLOOR. WHERE POSSIBLE MANHOLE STEPS ARE TO BE LOCATED ON A WALL WHICH HAS NO OPENINGS. MANHOLE STEPS ARE TO BE COPOLYMER POLYPROPYLENE PLASTIC COATED STEEL OR CAST IRON REINFORCED STEPS CONFORMING TO ASTM C-478.

GENERAL DESIGN STANDARDS
DRAINAGE DETAILS

STORM DRAIN
MANHOLE DETAILS

SCALE: SCALE DATE: DATE
SHEET NUMBER: 1 OF 2 SHEETS

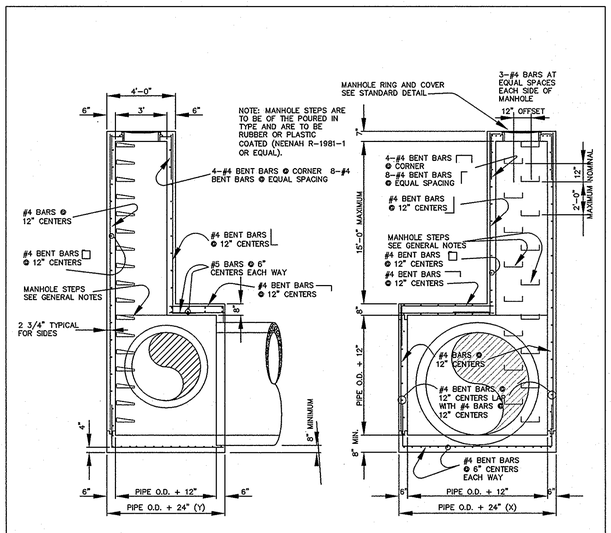
D-3

DEPARTMENT OF PUBLIC WORKS

CARROLLTON

FILENAME: FILENAME

1945 E. JACKSON ROAD CARROLLTON, TEXAS 75006 WWW.CI.CARROLLTON.TX.US (972)466-3200



CROSS SECTION (UPSTREAM)
NTS

CROSS SECTION (DOWNSTREAM)
NTS

GENERAL DESIGN STANDARDS
DRAINAGE DETAILS

STORM DRAIN
RECESSED CURB INLET

SCALE: SCALE DATE: DATE
SHEET NUMBER: 1 OF 1 SHEETS

D-3

DEPARTMENT OF PUBLIC WORKS

CARROLLTON

FILENAME: FILENAME

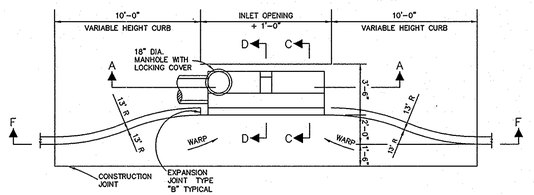
1945 E. JACKSON ROAD CARROLLTON, TEXAS 75006 WWW.CI.CARROLLTON.TX.US (972)466-3200

GENERAL NOTES:

1. OUTLET PIPE MAY BE LOCATED IN ANY WALL BUT SHALL NOT BE LOCATED AT ANY CORNER AT THE PILASTER.
2. MANHOLE RING WITH LOCKING COVER SHALL BE PLACED OVER THE OUTLET PIPE, REINFORCING BARS ARE TO BE ADJUSTED ACCORDINGLY.
3. INLETS OVER 4' DEEP SHALL CONTAIN STEPS SPACED AT 12" O.C. STARTING 18" ABOVE THE BOTTOM OF THE INLET. STEPS SHALL BE OF THE POURED IN TYPE AND ARE TO BE RUBBER OR PLASTIC COATED (NEENAH R-1981-1 OR EQUAL).

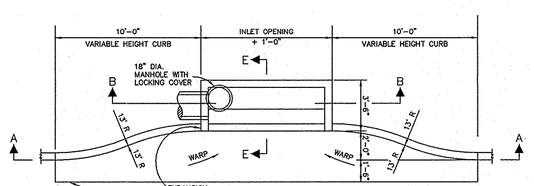
RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company



12' AND 14' RECESSED INLET

N.T.S.



8' AND 10' RECESSED INLET

N.T.S.

GENERAL DESIGN STANDARDS
DRAINAGE DETAILS

STORM DRAIN
RECESSED CURB INLET DETAILS

SCALE: SCALE DATE: DATE
SHEET NUMBER: 2 OF 6 SHEETS

D-1

DEPARTMENT OF PUBLIC WORKS

CARROLLTON

FILENAME: FILENAME

1945 E. JACKSON ROAD CARROLLTON, TEXAS 75006 WWW.CI.CARROLLTON.TX.US (972)466-3200

Kimley-Horn and Associates, Inc.
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Frisco, Texas 75034
Tel. No.(972) 335-3580
Fax No.(972) 335-3779
State of Texas Registration No. F-928

STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED
PROFESSIONAL ENGINEER
11/9/09

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

CONSTRUCTION DETAILS

Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	11/5/09
Project No.	69302590

SHEET

C-20

IMAGES
XREFS
PLOTTED BY
DWG NAME
LAYOUT

X:\2353759\a - 2353759\a - UTILITY PLAN - 2009.dwg
BRASWELL, TREY 11/4/2009 3:25 PM
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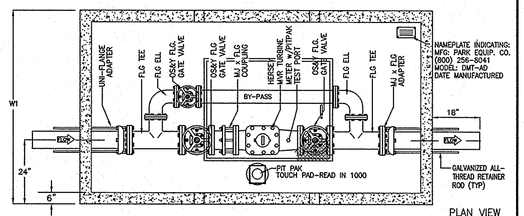
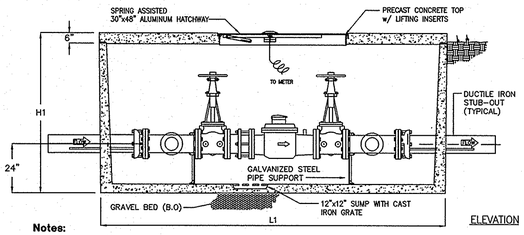


PLAN VIEW

MODEL	SIZE	BY PASS	L1	W1	H1	WEIGHT LBS
DMC-AD4	4"	4"	8'-8"	5'-0"	6'-0"	14,000
DMC-AD6	6"	6"	11'-0"	6'-0"	6'-0"	22,500



ELEVATION

Notes:

1. ALL CONCRETE SHALL BE CLASS 1 CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.

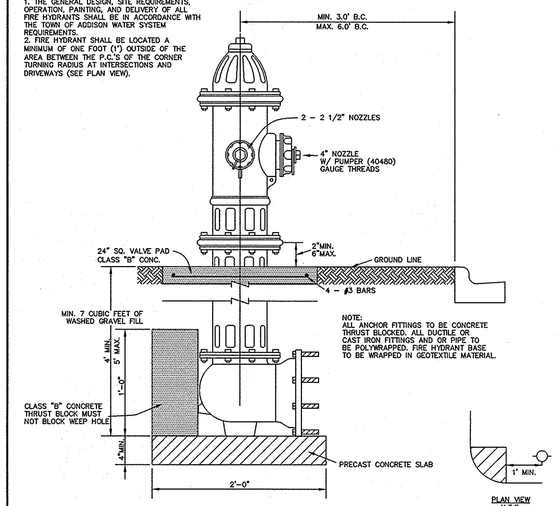
2. ALL REINFORCEMENT SHALL BE GRADE 60 REINFORCED, STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

3. ALL HATCHWAYS SHALL BE ¼" ALUMINUM DIAMOND PLATE COVER, WITH 2" EXTRUDED ALUMINUM FRAME. HATCH TO BE FURNISHED WITH 316 STAINLESS STEEL SNAP LOCK & BRASS HINGES.

4. THE METER ASSEMBLY SHALL BE FACTORY ASSEMBLED IN VAULT & HYDROSTATICALLY TESTED PRIOR TO DELIVERY. PIPE, VALVES, AND FITTINGS OF THE ASSEMBLY SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.

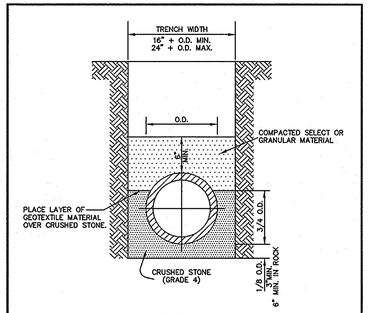
4" AND 6" TURBINE WATER METERS
NTS

NOTES:
1. THE GENERAL DESIGN, SITE REQUIREMENTS, OPERATION, PAINTING, AND DELIVERY OF ALL FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
2. FIRE HYDRANT SHALL BE LOCATED A MINIMUM OF ONE FOOT (1') OUTSIDE OF THE AREA BETWEEN THE P.C.'S OF THE CORNER TURNING RADIUS AT INTERSECTIONS AND DRIVEWAYS (SEE PLAN VIEW).



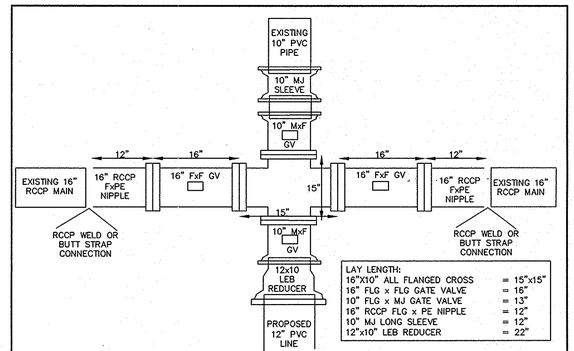
PLAN VIEW
N.T.S.

TYPICAL FIRE HYDRANT INSTALLATION
NTS



CLASS "B+" EMBEDMENT

TYPICAL EMBEDMENT DETAIL
NTS



LAY LENGTH:	
16"X10" ALL FLANGED CROSS	= 15"x15"
16" FLG x FLG GATE VALVE	= 16"
10" FLG x MJ GATE VALVE	= 13"
16" RCCP FLG x PE NIPPLE	= 12"
10" MJ LONG SLEEVE	= 12"
12"x10" LEB REDUCER	= 22"

RCCP WATER CONNECTION
N.T.S.

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

THESE DETAILS APPLY ONLY TO IMPROVEMENTS WITHIN THE TOWN OF ADDISON LIMITS. USE FILE 251D-1 DETAILS FOR IMPROVEMENTS WITHIN THE CITY OF DALLAS LIMITS.

Kimley-Horn and Associates, Inc.
5750 Genesis Court, Suite 200
Frisco, Texas 75034
State of Texas Registration No. F-928
Tel. No.(972) 335-3580
Fax No.(972) 335-3779

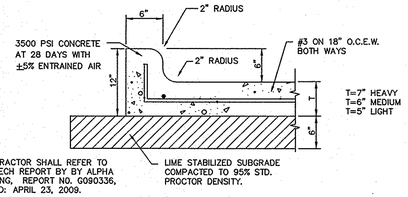
STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED
PROFESSIONAL ENGINEER
11/09/09

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

CONSTRUCTION DETAILS

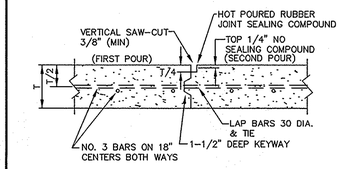
Scale: AS SHOWN
Designed by: RCG
Drawn by: RCG
Checked by: DKK
Date: 11/5/09
Project No. 69302200

SHEET
C-21



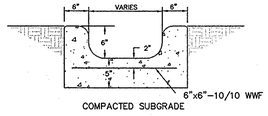
CURB & PAVING DETAIL

N.T.S.



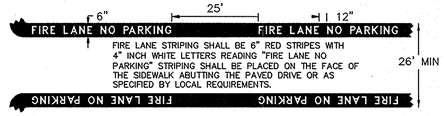
CONSTRUCTION JOINT DETAIL

N.T.S.



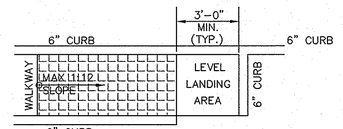
CONCRETE FLUME

N.T.S.



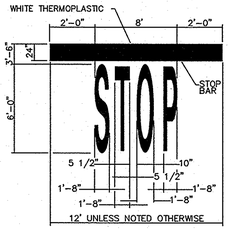
FIRE LANE MARKING

N.T.S.



BARRIER FREE RAMP

N.T.S.

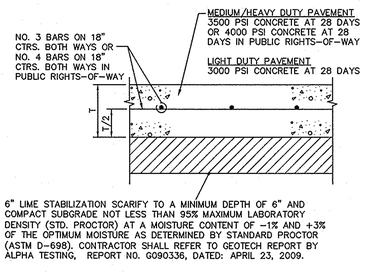


NOTE:

- ALL TRAFFIC MARKINGS TO BE THERMOPLASTIC AS PER DIMENSIONS SHOWN.

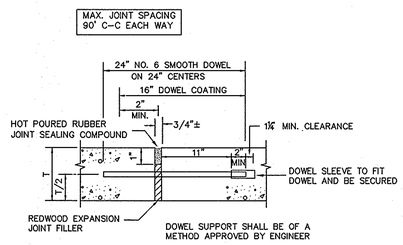
STOP BAR DETAIL

N.T.S.



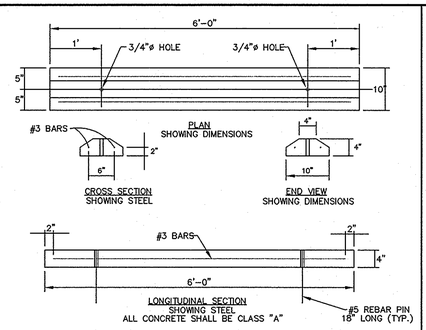
PAVEMENT SECTION

N.T.S.



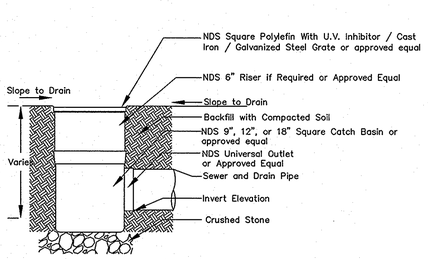
EXPANSION JOINT DETAIL

N.T.S.



CONCRETE WHEEL STOP

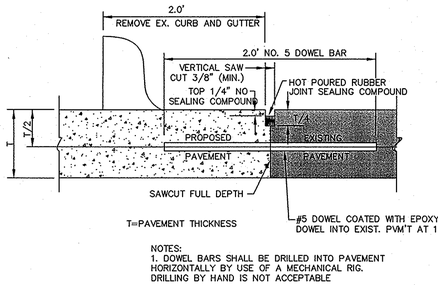
N.T.S.



NDS SQUARE GRATE WITH NDS SQUARE CATCH BASIN

N.T.S.

NDS



NOTES:
1. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG. DRILLING BY HAND IS NOT ACCEPTABLE

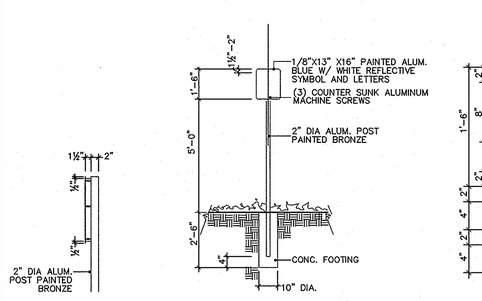
LONGITUDINAL BUTT JOINT

N.T.S.

STOP SIGN DETAIL

N.T.S.

(SEE SIGN POST DETAILS THIS SHEET)



SIDE ELEVATION

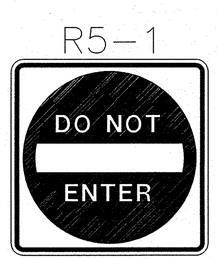
N.T.S.

ACCESSIBLE SIGNAGE

N.T.S.

ELEVATION/ SECTION

N.T.S.



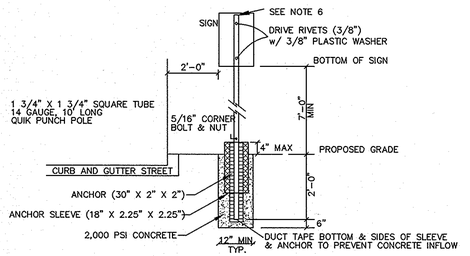
DO NOT ENTER SIGN DETAIL

N.T.S.

(SEE SIGN POST DETAILS THIS SHEET)

TRAFFIC CONTROL NOTES:

1. ALL SIGNAGE, BARRICADES, AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD HIGHWAY SIGN DESIGN FOR TEXAS (1980).
2. LOCATIONS SHOWN FOR SIGNAGE AND PAVEMENT MARKINGS ARE APPROXIMATE; FINAL LOCATIONS MAY CHANGE DUE TO POST CONSTRUCTION CONDITIONS AND PRESENCE OF OTHER PHYSICAL FEATURES. FINAL LOCATION OF ALL TRAFFIC CONTROL DEVICES SHALL BE FIELD VERIFIED WITH CITY PRIOR TO INSTALLATION.
3. ALL PAVEMENT MARKINGS OTHER THAN BUTTONS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
4. ALL SIGNS SHALL BE HIGH INTENSITY AND THE SIZES SHALL BE STANDARD UNLESS OTHERWISE NOTED.
5. ALL TRAFFIC SIGNS, POSTS, AND MATERIALS SHALL BE INSTALLED PER DETAIL THIS SHEET.
6. FOR STOP SIGNS THAT WILL ACCEPT FUTURE STREET SIGNS, EXTEND POST ABOVE STOP SIGN SO THAT 2 HOLES ARE AVAILABLE FOR MOUNTING. (FOR ALL OTHERS, POST SHALL NOT EXTEND ABOVE SIGN.)
7. CHANGES TO TYPICAL SIGN POST LOCATION MADE AT ENGINEER'S DISCRETION.



SIGN POST DETAIL

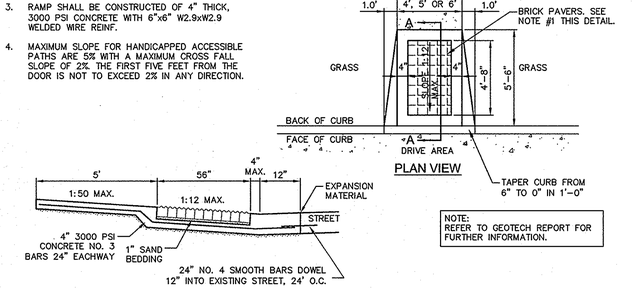
STANDARD CONSTRUCTION DETAILS

CITY OF FRISCO, TEXAS

6101 Main St. • Frisco, TX 75034 • (972) 335-3580

ADD/DOW:	MR	DATE:	10/2004
REVISED BY:	BP	SCALE:	N.T.S.
DRAWN BY:	MR	SHEET NO.:	1
CHECKED BY:	BAR	FILENAME:	signpost

NOTES:
1. BRICK PAVERS SHALL BE 8"x 4" x 2-1/2" ANTIQUE RED PAVERS IN COLOR MEETING ADA SECTION 4.29.2 (WHITACRE GREER ANTIQUE RED SHADE NO. 32 OR APPROVED EQUAL). PAVERS SHALL HAVE DETECTABLE WARNING THAT CONSISTS OF RAISED TRUNCATED DOMES WITH A DIA. OF 0.9 IN. (23MM), A HEIGHT OF NOMINAL 0.2 IN. (5MM) AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 IN. (60MM).
2. TAPERED CURB AND GUTTER SECTION. MAINTAIN GUTTER FLOWLINE AS REQUIRED.
3. RAMP SHALL BE CONSTRUCTED OF 4" THICK, 3000 PSI CONCRETE WITH 6"x6" W2.9xW2.9 WELDED WIRE REINF.
4. MAXIMUM SLOPE FOR HANDICAPPED ACCESSIBLE PATHS ARE 5% WITH A MAXIMUM CROSS FALL SLOPE OF 2%. THE FIRST FIVE FEET FROM THE DOOR IS NOT TO EXCEED 2% IN ANY DIRECTION.

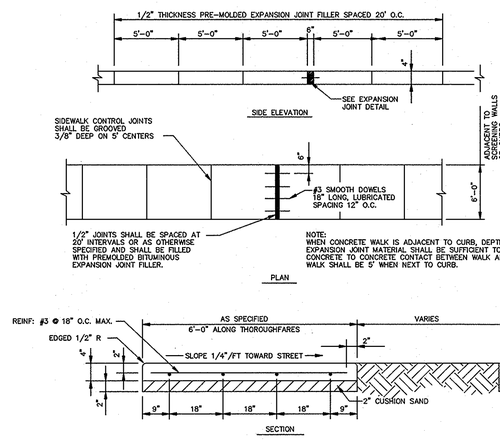


SECTION A-A

NOTE:
REFER TO GEOTECH REPORT FOR FURTHER INFORMATION.

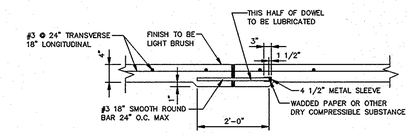
BARRIER FREE RAMP W/ 1' FLARES DETAIL

N.T.S.



CONCRETE SIDEWALK

N.T.S.



SIDEWALK EXPANSION JOINT DETAIL

N.T.S.

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

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Kimley-Horn and Associates, Inc.
5750 Genesis Court, Suite 200
Frisco, Texas 75034
Tel. No.(972) 335-3580
Fax No.(972) 335-3779
State of Texas Registration No. F-928

STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED
PROFESSIONAL ENGINEER
11/19/09

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

CONSTRUCTION DETAILS

Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	11/3/09
Project No.	69302500

SHEET
C-22

IMAGES
XREFS
PLOTTED BY
DWG NAME
LAYOUT NAME
LTSCALE

1: c2537594a - c2537596a - UTILITY PLAN -
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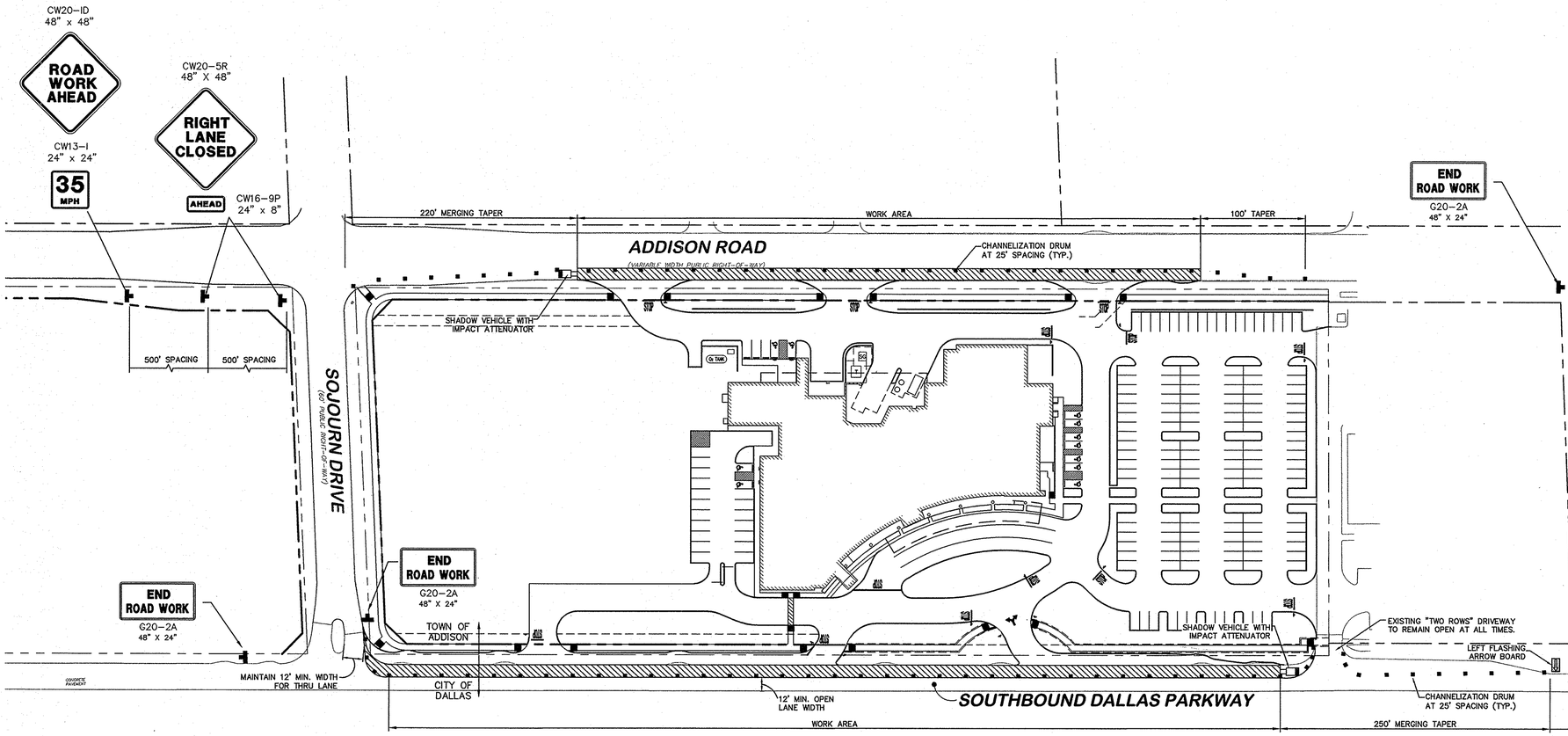
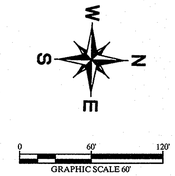
11/3/2009 9:56 AM





LEGEND

- SHADOW VEHICLE WITH IMPACT ATTENUATOR
- CHANNELIZATION DRUM
- TRAFFIC CONTROL SIGN AND POST
- LEFT FLASHING ARROW BOARD
- WORK AREA DURING CONSTRUCTION

NOTES

1. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST VERSION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), PART VI. FIELD MODIFICATIONS MAY BE MADE TO ADDRESS LOCAL CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
2. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHOULD BE INSPECTED DAILY AND REPAIRED OR REPLACED AS NECESSARY. AFTER REMOVAL, CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF MODIFICATIONS TO ROADWAY AND SIDEWALK SURFACES, ROADWAY MARKINGS, AND SIGNAGE DUE TO TRAFFIC CONTROL DEVICES OR CONSTRUCTION ACTIVITY.
3. DIMENSIONS SHOWN ARE TO FACE OF CURB.
4. TEMPORARY TRAFFIC CONTROL CRITERIA:
   POSTED SPEED IS 55 MPH.
   - CHANNELIZED DEVICE SPACING: 25' MAXIMUM (AS SHOWN)
   - SIGN SPACING: 500' MINIMUM (AS SHOWN)
5. NO TRAFFIC LANE OR SIDEWALK ALONG SOUTHBOUND DALLAS PARKWAY TO BE CLOSED WITHOUT FIRST OBTAINING THE APPROPRIATE PERMIT FROM PAUL THOMPSON OR RUSSELL FINELY WITH THE CITY OF DALLAS PUBLIC WORKS AND TRANSPORTATION DEPT. (PW&T). CLOSURE OF ANY TRAFFIC LANE MUST BE RESTRICTED TO THE HOURS OF 9:00 AM TO 3:30 PM WORKDAYS.
6. WHEN TRAFFIC CONTROL PLAN IS NOT IN EFFECT, REMOVE ALL DEVICES FROM THE TRAVELED LANE AND COVER OR REMOVE ALL WARNING SIGNS.
7. CONTRACTOR TO MAINTAIN ACCESS TO EXISTING ACTIVE DRIVEWAYS EXCEPT WHERE NOTED.
8. IF THE TRAFFIC CONTROL PLAN IS IN EFFECT DURING THE HOURS OF DARKNESS, ALL CHANNELIZATION DEVICES SHALL HAVE A TYPE "C" STEADY-BURN WARNING LIGHT OR EQUIVALENT REFLECTOR, AND ALL WARNING SIGNS SHALL HAVE A TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHT.

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
5750 Genesis Court, Suite 200
Frisco, Texas 75034
Tel. No.(972) 335-3580
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State of Texas Registration No. F-928

STATE OF TEXAS
DAVID K. KOCHALKA
87781
LICENSED PROFESSIONAL ENGINEER
11/30/10

METHODIST HOSPITAL
FOR SURGERY
ADDISON, TEXAS
FILE NUMBER: 311T-7863

TRAFFIC CONTROL PLAN

Scale:	AS SHOWN
Designed by:	RCG
Drawn by:	RCG
Checked by:	DKK
Date:	11/1/09
Project No.	69302500

SHEET
C-23

IMAGES
XREFS
PLOTTED BY
PLOTTED ON
LAST SAVED
XREF-Site - XREF-Bldg-Base - XREF-Site-Base - XREF-Civil - XREF-Bldg
BRASWELL, TREY 11/4/2009 1:52 PM
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11/3/2009 1:49:37 PM - M:\METHODIST ADDISON\DWG\PLANSET\C-TCP.DWG

LEVELS DISPLAYED

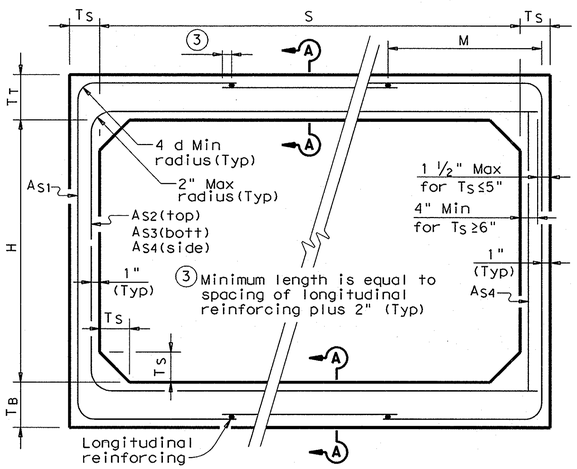
ACC:

BOX DATA

SECTION DIMENSIONS					Fill Height	M (Min)	REINFORCING (in²/ft) ②								① Lift Weight (Tons)
S (ft)	H (ft)	T_T (in)	T_B (in)	T_S (in)	(ft)	(in)	A_{S1}	A_{S2}	A_{S3}	A_{S4}	A_{S5}	A_{S6}	A_{S7}	A_{S8}	
4	2	7.5	6	5	<2	-	0.18	0.40	0.20	0.12	0.20	0.18	0.18	0.14	4.5
4	2	5	5	5	2<3	38	0.21	0.23	0.20	0.12	-	-	-	-	3.6
4	2	5	5	5	3-5	38	0.12	0.12	0.12	0.12	-	-	-	-	3.6
4	2	5	5	5	10	38	0.12	0.12	0.13	0.12	-	-	-	-	3.6
4	2	5	5	5	15	38	0.14	0.17	0.18	0.12	-	-	-	-	3.6
4	2	5	5	5	20	38	0.19	0.23	0.23	0.12	-	-	-	-	3.6
4	2	5	5	5	25	38	0.23	0.28	0.28	0.12	-	-	-	-	3.6
4	2	5	5	5	30	38	0.28	0.33	0.33	0.12	-	-	-	-	3.6
4	2	5	5	5	35	38	0.33	0.38	0.39	0.12	-	-	-	-	3.6
4	3	7.5	6	5	<2	-	0.18	0.45	0.23	0.12	0.22	0.18	0.18	0.14	5.0
4	3	5	5	5	2<3	38	0.16	0.28	0.25	0.12	-	-	-	-	4.1
4	3	5	5	5	3-5	38	0.12	0.12	0.13	0.12	-	-	-	-	4.1
4	3	5	5	5	10	38	0.12	0.14	0.15	0.12	-	-	-	-	4.1
4	3	5	5	5	15	38	0.12	0.20	0.20	0.12	-	-	-	-	4.1
4	3	5	5	5	20	38	0.14	0.26	0.26	0.12	-	-	-	-	4.1
4	3	5	5	5	25	38	0.17	0.32	0.32	0.12	-	-	-	-	4.1
4	3	5	5	5	30	38	0.21	0.38	0.38	0.12	-	-	-	-	4.1
4	3	5	5	5	35	38	0.25	0.44	0.44	0.12	-	-	-	-	4.1
4	4	7.5	6	5	<2	-	0.18	0.47	0.25	0.12	0.23	0.18	0.18	0.14	5.5
4	4	5	5	5	2<3	38	0.13	0.31	0.28	0.12	-	-	-	-	4.6
4	4	5	5	5	3-5	38	0.12	0.14	0.15	0.12	-	-	-	-	4.6
4	4	5	5	5	10	38	0.12	0.15	0.16	0.12	-	-	-	-	4.6
4	4	5	5	5	15	38	0.12	0.21	0.22	0.12	-	-	-	-	4.6
4	4	5	5	5	20	38	0.12	0.27	0.28	0.12	-	-	-	-	4.6
4	4	5	5	5	25	38	0.14	0.33	0.34	0.12	-	-	-	-	4.6
4	4	5	5	5	30	38	0.17	0.39	0.40	0.12	-	-	-	-	4.6
4	4	5	5	5	35	38	0.20	0.45	0.46	0.12	-	-	-	-	4.6

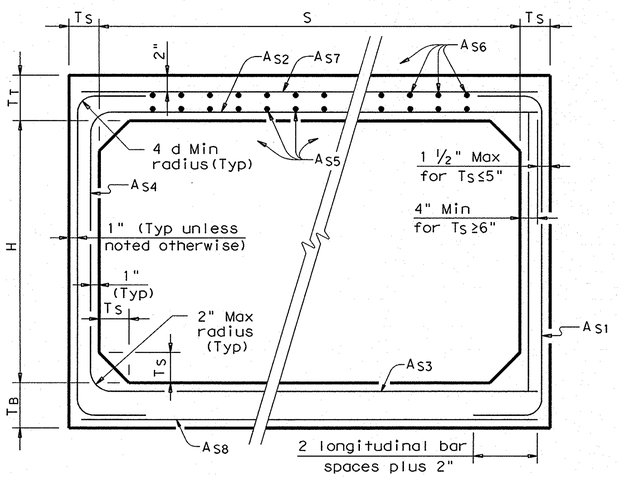
① For Box Length = 8'-0"

② A_{S1} thru A_{S4}, A_{S7} and A_{S8} are minimum required areas of reinforcement per linear foot of box length. A_{S6} and A_{S5} are minimum required areas of reinforcement per linear foot of box width.



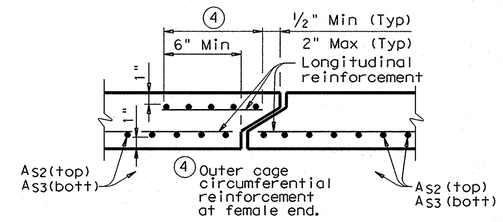
CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT 2 FT AND GREATER



CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT LESS THAN 2 FT



SECTION A-A

(TOP AND BOTTOM SLAB JOINT REINFORCEMENT)

GENERAL NOTES:

Designs shown conform to ASTM C1433.

Refer to ASTM C1433 for information or details not shown.

All concrete shall be Class "H" Concrete with a minimum compressive strength of 5,000 psi.

See SCP-MD standard sheet for miscellaneous details and notes not shown.

In lieu of furnishing the designs shown on this sheet, the contractor may furnish an alternate design that is equal to or exceeds the box design for the design fill height in the table. Shop plans for alternate designs shall be submitted in accordance with Item "Precast Concrete Structures".

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

HS20 LOADING

Texas Department of Transportation
Bridge Division

SINGLE BOX CULVERTS PRECAST
4'-0" SPAN

SCP-4

FILE: scp04ste.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
©TxDOT May 2005	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS 06-06 ~ Revised reinforcing. 08-07 ~ General notes.				
	COUNTY	CONTROL	SECT	JOB	HIGHWAY

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

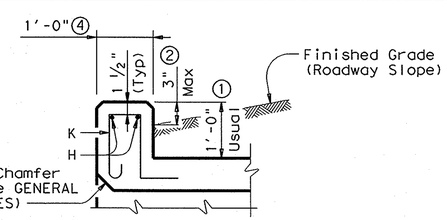
ACC:

LEVELS DISPLAYED

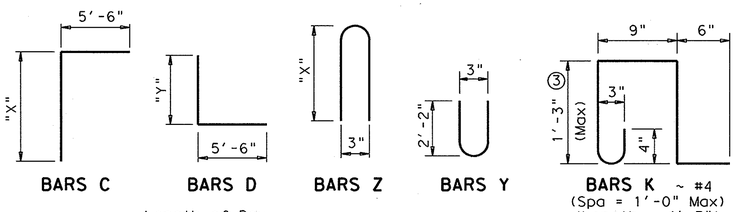
BILLS OF REINFORCING STEEL (For Box Length = 40 feet)

NUMBER OF SPANS	SECTION DIMENSIONS				Bars B					Bars C & D							Bars E					Bars F_1 ~#4				Bars F_2 ~#4 at 1'-6" Max			Bars M~#4 at 1'-6" Max			Bars Y & Z~#4 at 1'-0" Max					Bars H 4~#4		Bars K		QUANTITIES: Per foot of Barrel		Curb		Total	
	S	H	T	U	No.	Size	Spa	Length	Wt	No.	Size	Spa	Bar C Length	Bar C Wt	Bar D Length	Bar D Wt	No.	Size	Spa	Length	Wt	No.	Spa	Length	Wt	No.	Length	Wt	No.	Length	Wt	No.	Bar Y Length	Bar Y Wt	Bar Z Length	Bar Z Wt	Length	Weight	No.	Weight	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)
2	6'-0"	3'-0"	7"	7"	162	#5	6"	13'- 6"	2,281	162	#4	6"	8'-11"	965	7'- 8"	830	194	#5	5"	6'- 0"	1,214	16	9"	39'-9"	425	50	39'-9"	1,328	56	3'- 0"	112	41	4'- 6"	123	7'- 0"	192	13'- 6"	36	30	85	0.789	186.8	1.0	121	32.6	7,591
3	6'-0"	3'-0"	7"	7"	162	#5	6"	20'- 1"	3,393	162	#4	6"	8'-11"	965	7'- 8"	830	194	#5	5"	12'- 7"	2,546	24	9"	39'-9"	637	71	39'-9"	1,885	56	3'- 0"	112	82	4'- 6"	246	7'- 0"	383	20'- 1"	54	42	119	1.138	274.9	1.5	173	47.0	11,170
4	6'-0"	3'-0"	7"	7"	162	#5	6"	26'- 8"	4,506	162	#4	6"	8'-11"	965	7'- 8"	830	194	#5	5"	19'- 2"	3,878	32	9"	39'-9"	850	92	39'-9"	2,443	56	3'- 0"	112	123	4'- 6"	370	7'- 0"	575	26'- 8"	71	56	159	1.487	363.2	2.0	230	61.5	14,759
5	6'-0"	3'-0"	7"	7"	162	#5	6"	33'- 3"	5,618	162	#4	6"	8'-11"	965	7'- 8"	830	194	#5	5"	25'- 9"	5,210	40	9"	39'-9"	1,062	113	39'-9"	3,000	56	3'- 0"	112	164	4'- 6"	493	7'- 0"	767	33'- 3"	89	70	199	1.836	451.4	2.5	288	75.9	18,345
6	6'-0"	3'-0"	7"	7"	162	#5	6"	39'-10"	6,730	162	#4	6"	8'-11"	965	7'- 8"	830	194	#5	5"	32'- 4"	6,542	48	9"	39'-9"	1,275	134	39'-9"	3,558	56	3'- 0"	112	205	4'- 6"	616	7'- 0"	959	39'-10"	106	82	233	2.186	539.7	3.0	339	90.4	21,926
2	6'-0"	4'-0"	7"	7"	162	#5	6"	13'- 6"	2,281	162	#4	6"	9'-11"	1,073	7'- 8"	830	194	#5	5"	6'- 0"	1,214	16	9"	39'-9"	425	50	39'-9"	1,328	56	4'- 0"	150	41	4'- 6"	123	9'- 0"	246	13'- 6"	36	30	85	0.853	191.8	1.0	121	35.1	7,791
3	6'-0"	4'-0"	7"	7"	162	#5	6"	20'- 1"	3,393	162	#4	6"	9'-11"	1,073	7'- 8"	830	194	#5	5"	12'- 7"	2,546	24	9"	39'-9"	637	71	39'-9"	1,885	56	4'- 0"	150	82	4'- 6"	246	9'- 0"	493	20'- 1"	54	42	119	1.224	281.3	1.5	173	50.5	11,426
4	6'-0"	4'-0"	7"	7"	162	#5	6"	26'- 8"	4,506	162	#4	6"	9'-11"	1,073	7'- 8"	830	194	#5	5"	19'- 2"	3,878	32	9"	39'-9"	850	92	39'-9"	2,443	56	4'- 0"	150	123	4'- 6"	370	9'- 0"	739	26'- 8"	71	56	159	1.595	371.0	2.0	230	65.8	15,069
5	6'-0"	4'-0"	7"	7"	162	#5	6"	33'- 3"	5,618	162	#4	6"	9'-11"	1,073	7'- 8"	830	194	#5	5"	25'- 9"	5,210	40	9"	39'-9"	1,062	113	39'-9"	3,000	56	4'- 0"	150	164	4'- 6"	493	9'- 0"	986	33'- 3"	89	70	199	1.966	460.6	2.5	288	81.1	18,710
6	6'-0"	4'-0"	7"	7"	162	#5	6"	39'-10"	6,730	162	#4	6"	9'-11"	1,073	7'- 8"	830	194	#5	5"	32'- 4"	6,542	48	9"	39'-9"	1,275	134	39'-9"	3,558	56	4'- 0"	150	205	4'- 6"	616	9'- 0"	1,232	39'-10"	106	82	233	2.337	550.2	3.0	339	96.5	22,345
2	6'-0"	5'-0"	7"	7"	162	#5	6"	13'- 6"	2,281	162	#4	6"	10'-11"	1,181	7'- 8"	830	194	#5	5"	6'- 0"	1,214	16	9"	39'-9"	425	56	39'-9"	1,487	56	5'- 0"	187	41	4'- 6"	123	11'- 0"	301	13'- 6"	36	30	85	0.918	200.7	1.0	121	37.7	8,150
3	6'-0"	5'-0"	7"	7"	162	#5	6"	20'- 1"	3,393	162	#4	6"	10'-11"	1,181	7'- 8"	830	194	#5	5"	12'- 7"	2,546	24	9"	39'-9"	637	79	39'-9"	2,098	56	5'- 0"	187	82	4'- 6"	246	11'- 0"	603	20'- 1"	54	42	119	1.311	293.0	1.5	173	53.9	11,894
4	6'-0"	5'-0"	7"	7"	162	#5	6"	26'- 8"	4,506	162	#4	6"	10'-11"	1,181	7'- 8"	830	194	#5	5"	19'- 2"	3,878	32	9"	39'-9"	850	102	39'-9"	2,708	56	5'- 0"	187	123	4'- 6"	370	11'- 0"	904	26'- 8"	71	56	159	1.703	385.4	2.0	230	70.1	15,644
5	6'-0"	5'-0"	7"	7"	162	#5	6"	33'- 3"	5,618	162	#4	6"	10'-11"	1,181	7'- 8"	830	194	#5	5"	25'- 9"	5,210	40	9"	39'-9"	1,062	125	39'-9"	3,319	56	5'- 0"	187	164	4'- 6"	493	11'- 0"	1,205	33'- 3"	89	70	199	2.096	477.6	2.5	288	86.3	19,393
6	6'-0"	5'-0"	7"	7"	162	#5	6"	39'-10"	6,730	162	#4	6"	10'-11"	1,181	7'- 8"	830	194	#5	5"	32'- 4"	6,542	48	9"	39'-9"	1,275	148	39'-9"	3,930	56	5'- 0"	187	205	4'- 6"	616	11'- 0"	1,506	39'-10"	106	82	233	2.488	569.9	3.0	339	102.5	23,136
2	6'-0"	6'-0"	7"	7"	162	#5	6"	13'- 6"	2,281	194	#4	5"	11'-11"	1,544	7'- 8"	994	194	#5	5"	6'- 0"	1,214	16	9"	39'-9"	425	62	39'-9"	1,646	56	6'- 0"	224	41	4'- 6"	123	13'- 0"	356	13'- 6"	36	30	85	0.983	220.2	1.0	121	40.3	8,928
3	6'-0"	6'-0"	7"	7"	162	#5	6"	20'- 1"	3,393	194	#4	5"	11'-11"	1,544	7'- 8"	994	194	#5	5"	12'- 7"	2,546	24	9"	39'-9"	637	87	39'-9"	2,310	56	6'- 0"	224	82	4'- 6"	246	13'- 0"	712	20'- 1"	54	42	119	1.397	315.2	1.5	173	57.4	12,779
4	6'-0"	6'-0"	7"	7"	162	#5	6"	26'- 8"	4,506	194	#4	5"	11'-11"	1,544	7'- 8"	994	194	#5	5"	19'- 2"	3,878	32	9"	39'-9"	850	112	39'-9"	2,974	56	6'- 0"	224	123	4'- 6"	370	13'- 0"	1,068	26'- 8"	71	56	159	1.811	410.2	2.0	230	74.4	16,638
5	6'-0"	6'-0"	7"	7"	162	#5	6"	33'- 3"	5,618	194	#4	5"	11'-11"	1,544	7'- 8"	994	194	#5	5"	25'- 9"	5,210	40	9"	39'-9"	1,062	137	39'-9"	3,638	56	6'- 0"	224	164	4'- 6"	493	13'- 0"	1,424	33'- 3"	89	70	199	2.225	505.2	2.5	288	91.5	20,495
6	6'-0"	6'-0"	7"	7"	162	#5	6"	39'-10"	6,730	194	#4	5"	11'-11"	1,544	7'- 8"	994	194	#5	5"	32'- 4"	6,542	48	9"	39'-9"	1,275	162	39'-9"	4,302	56	6'- 0"	224	205	4'- 6"	616	13'- 0"	1,780	39'-10"	106	82	233	2.639	600.2	3.0	339	108.6	24,346

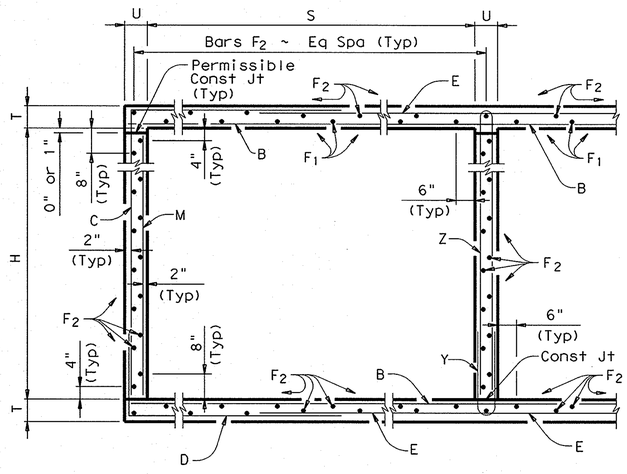
H	Bar Dimensions "X"	Bar Dimensions "Y"
3'-0"	3'-5"	2'-2"
4'-0"	4'-5"	2'-2"
5'-0"	5'-5"	2'-2"
6'-0"	6'-5"	2'-2"



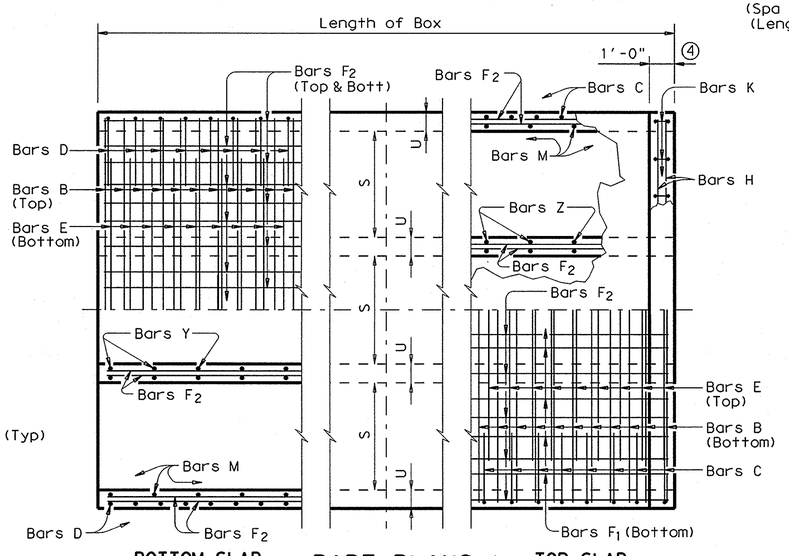
SECTION THRU CURB



BARS C BARS D BARS Z BARS Y BARS K ~ #4 (Spa = 1'-0" Max) (Length = 4'-3")



TYPICAL SECTION



BOTTOM SLAB PART PLANS TOP SLAB

GENERAL NOTES:

Designed according to current AASHTO Standard and Interim Specifications.
Designed to the maximum fill height shown.
All reinforcing steel shall be Grade 60.
All concrete shall be Class "C" with these exceptions: use Class "S" for top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface.
Class "C" concrete shall have a minimum compressive strength of 3,600 psi. Class "S" concrete shall have a minimum compressive strength of 4,000 psi.
The use of permanent forms is not allowed.
The bottom edge of the top slab shall be chamfered 3" at the entrance.
Reinforcing bars shall be adjusted to provide a minimum of 1 ¼" clear cover.
Construction joints shown at the flow line may be raised a maximum of 6" at the Contractor's option. If this option is used, Bars M may be cut off or raised, Bars C and D may be reversed, and Bars Y and Z may be reversed.
See standard MC-MD for skewed ends, angle sections and lengthening details.

① 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures without railing and curbs taller than 1'-0", refer to ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with bridge rail, other than T6, refer to RAC standard.

② For vehicle safety, the following requirements must be met:
- For structures without bridge rail, curbs shall project no more than 3" above finished grade.
- For structures with bridge rail, curbs shall be flush with finished grade.

Curb heights shall be reduced, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

③ For curbs less than 1'-0" high, tilt bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, bars K may be omitted.

④ 1'-0" typical. 2'-0" when RAC standard is referred to elsewhere in the plans.

RECORD DRAWINGS (SEPTEMBER 2010)
INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company

HS20 LOADING

Texas Department of Transportation
Bridge Division

MULTIPLE BOX CULVERTS CAST-IN-PLACE 6'-0" SPAN 0' TO 16' FILL

MC-6-16

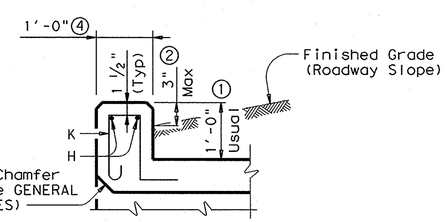
FILE: mc616ste.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
© TxDOT May 2005	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS				
	COUNTY	CONTROL	SECT	JOB	HIGHWAY

ACC:
LEVELS DISPLAYED
1

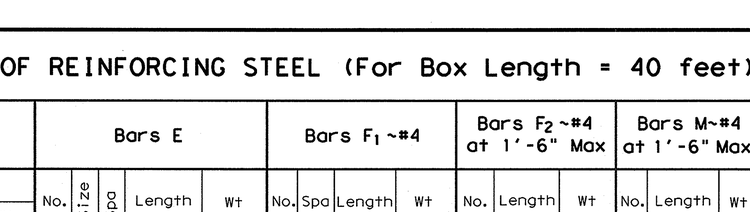
BILLS OF REINFORCING STEEL (For Box Length = 40 feet)

NUMBER OF SPANS	SECTION DIMENSIONS				Bars B					Bars C & D							Bars E					Bars F_1 ~#4				Bars F_2 ~#4 at 1'-6" Max			Bars M~#4 at 1'-6" Max			Bars Y & Z~#4 at 10" Max					Bars H 4~#4		Bars K		QUANTITIES				
													Bar C		Bar D																												Per foot of Barrel		Curb		Total	
	S	H	T	U	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	Length	Wt	No.	Size	Spa	Length	Wt	No.	Spa	Length	Wt	No.	Length	Wt	No.	Length	Wt	No.	Bar Y Length	Bar Y Wt	Bar Z Length	Bar Z Wt	Length	Weight	No.	Weight	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)
2	8'-0"	4'-0"	8"	7"	162	#5	6"	17'- 6"	2,957	194	#4	5"	10'- 7"	1,372	8'- 4"	1,080	194	#6	5"	8'-10"	2,574	22	9"	39'-9"	584	56	39'-9"	1,487	56	4'- 0"	150	49	4'- 8"	153	9'- 2"	300	17'- 6"	47	38	108	1.136	266.4	1.3	155	46.7	10,812
3	8'-0"	4'-0"	8"	7"	162	#5	6"	26'- 1"	4,407	194	#4	5"	10'- 7"	1,372	8'- 4"	1,080	194	#6	5"	17'- 5"	5,075	36	8"	39'-9"	956	80	39'-9"	2,124	56	4'- 0"	150	98	4'- 8"	305	9'- 2"	600	26'- 1"	70	54	153	1.646	401.7	2.0	223	67.8	16,292
4	8'-0"	4'-0"	8"	7"	162	#5	6"	34'- 8"	5,857	194	#4	5"	10'- 7"	1,372	8'- 4"	1,080	194	#6	5"	26'- 0"	7,576	48	8"	39'-9"	1,275	104	39'-9"	2,762	56	4'- 0"	150	147	4'- 8"	458	9'- 2"	900	34'- 8"	93	72	204	2.156	535.8	2.6	297	88.8	21,727
5	8'-0"	4'-0"	8"	7"	162	#5	6"	43'- 3"	7,308	194	#4	5"	10'- 7"	1,372	8'- 4"	1,080	194	#6	5"	34'- 7"	10,077	60	8"	39'-9"	1,593	128	39'-9"	3,399	56	4'- 0"	150	196	4'- 8"	611	9'- 2"	1,200	43'- 3"	116	90	256	2.667	669.8	3.2	372	109.9	27,162
6	8'-0"	4'-0"	8"	7"	162	#5	6"	51'-10"	8,758	194	#4	5"	10'- 7"	1,372	8'- 4"	1,080	194	#6	5"	43'- 2"	12,578	72	8"	39'-9"	1,912	152	39'-9"	4,036	56	4'- 0"	150	245	4'- 8"	764	9'- 2"	1,500	51'-10"	138	106	301	3.177	803.8	3.9	439	131.0	32,589
2	8'-0"	5'-0"	8"	7"	194	#5	5"	17'- 6"	3,541	194	#4	5"	11'- 7"	1,501	8'- 4"	1,080	194	#6	5"	8'-10"	2,574	22	9"	39'-9"	584	62	39'-9"	1,646	56	5'- 0"	187	49	4'- 8"	153	11'- 2"	366	17'- 6"	47	38	108	1.201	290.8	1.3	155	49.3	11,787
3	8'-0"	5'-0"	8"	7"	194	#5	5"	26'- 1"	5,278	194	#4	5"	11'- 7"	1,501	8'- 4"	1,080	194	#6	5"	17'- 5"	5,075	36	8"	39'-9"	956	88	39'-9"	2,337	56	5'- 0"	187	98	4'- 8"	305	11'- 2"	731	26'- 1"	70	54	153	1.733	436.3	2.0	223	71.3	17,673
4	8'-0"	5'-0"	8"	7"	194	#5	5"	34'- 8"	7,015	194	#4	5"	11'- 7"	1,501	8'- 4"	1,080	194	#6	5"	26'- 0"	7,576	48	8"	39'-9"	1,275	114	39'-9"	3,027	56	5'- 0"	187	147	4'- 8"	458	11'- 2"	1,097	34'- 8"	93	72	204	2.264	580.4	2.6	297	93.2	23,513
5	8'-0"	5'-0"	8"	7"	194	#5	5"	43'- 3"	8,751	194	#4	5"	11'- 7"	1,501	8'- 4"	1,080	194	#6	5"	34'- 7"	10,077	60	8"	39'-9"	1,593	140	39'-9"	3,717	56	5'- 0"	187	196	4'- 8"	611	11'- 2"	1,462	43'- 3"	116	90	256	2.796	724.5	3.2	372	115.0	29,351
6	8'-0"	5'-0"	8"	7"	194	#5	5"	51'-10"	10,488	194	#4	5"	11'- 7"	1,501	8'- 4"	1,080	194	#6	5"	43'- 2"	12,578	72	8"	39'-9"	1,912	166	39'-9"	4,408	56	5'- 0"	187	245	4'- 8"	764	11'- 2"	1,828	51'-10"	138	106	301	3.328	868.7	3.9	439	137.0	35,185
2	8'-0"	6'-0"	8"	7"	194	#5	5"	17'- 6"	3,541	194	#4	5"	12'- 7"	1,631	8'- 4"	1,080	194	#6	5"	8'-10"	2,574	22	9"	39'-9"	584	68	39'-9"	1,806	56	6'- 0"	224	49	4'- 8"	153	13'- 2"	431	17'- 6"	47	38	108	1.265	300.6	1.3	155	51.9	12,179
3	8'-0"	6'-0"	8"	7"	194	#5	5"	26'- 1"	5,278	194	#4	5"	12'- 7"	1,631	8'- 4"	1,080	194	#6	5"	17'- 5"	5,075	36	8"	39'-9"	956	96	39'-9"	2,549	56	6'- 0"	224	98	4'- 8"	305	13'- 2"	862	26'- 1"	70	54	153	1.819	449.0	2.0	223	74.8	18,183
4	8'-0"	6'-0"	8"	7"	194	#5	5"	34'- 8"	7,015	194	#4	5"	12'- 7"	1,631	8'- 4"	1,080	194	#6	5"	26'- 0"	7,576	48	8"	39'-9"	1,275	124	39'-9"	3,293	56	6'- 0"	224	147	4'- 8"	458	13'- 2"	1,293	34'- 8"	93	72	204	2.372	596.1	2.6	297	97.5	24,142
5	8'-0"	6'-0"	8"	7"	194	#5	5"	43'- 3"	8,751	194	#4	5"	12'- 7"	1,631	8'- 4"	1,080	194	#6	5"	34'- 7"	10,077	60	8"	39'-9"	1,593	152	39'-9"	4,036	56	6'- 0"	224	196	4'- 8"	611	13'- 2"	1,724	43'- 3"	116	90	256	2.926	743.2	3.2	372	120.2	30,099
6	8'-0"	6'-0"	8"	7"	194	#5	5"	51'-10"	10,488	194	#4	5"	12'- 7"	1,631	8'- 4"	1,080	194	#6	5"	43'- 2"	12,578	72	8"	39'-9"	1,912	180	39'-9"	4,780	56	6'- 0"	224	245	4'- 8"	764	13'- 2"	2,155	51'-10"	138	106	301	3.479	890.3	3.9	439	143.1	36,051
2	8'-0"	7'-0"	8"	7"	194	#5	5"	17'- 6"	3,541	194	#4	5"	13'- 7"	1,760	8'- 4"	1,080	194	#6	5"	8'-10"	2,574	22	9"	39'-9"	584	68	39'-9"	1,806	56	7'- 0"	262	49	4'- 8"	153	15'- 2"	496	17'- 6"	47	38	108	1.330	306.4	1.3	155	54.5	12,411
3	8'-0"	7'-0"	8"	7"	194	#5	5"	26'- 1"	5,278	194	#4	5"	13'- 7"	1,760	8'- 4"	1,080	194	#6	5"	17'- 5"	5,075	36	8"	39'-9"	956	96	39'-9"	2,549	56	7'- 0"	262	98	4'- 8"	305	15'- 2"	993	26'- 1"	70	54	153	1.905	456.5	2.0	223	78.2	18,481
4	8'-0"	7'-0"	8"	7"	194	#5	5"	34'- 8"	7,015	194	#4	5"	13'- 7"	1,760	8'- 4"	1,080	194	#6	5"	26'- 0"	7,576	48	8"	39'-9"	1,275	124	39'-9"	3,293	56	7'- 0"	262	147	4'- 8"	458	15'- 2"	1,489	34'- 8"	93	72	204	2.480	605.2	2.6	297	101.8	24,505
5	8'-0"	7'-0"	8"	7"	194	#5	5"	43'- 3"	8,751	194	#4	5"	13'- 7"	1,760	8'- 4"	1,080	194	#6	5"	34'- 7"	10,077	60	8"	39'-9"	1,593	152	39'-9"	4,036	56	7'- 0"	262	196	4'- 8"	611	15'- 2"	1,986	43'- 3"	116	90	256	3.056	753.9	3.2	372	125.4	30,528
6	8'-0"	7'-0"	8"	7"	194	#5	5"	51'-10"	10,488	194	#4	5"	13'- 7"	1,760	8'- 4"	1,080	194	#6	5"	43'- 2"	12,578	72	8"	39'-9"	1,912	180	39'-9"	4,780	56	7'- 0"	262	245	4'- 8"	764	15'- 2"	2,482	51'-10"	138	106	301	3.631	902.7	3.9	439	149.1	36,545
2	8'-0"	8'-0"	8"	7"	194	#5	5"	17'- 6"	3,541	162	#5	6"	14'- 7"	2,464	8'- 9"	1,478	194	#6	5"	8'-10"	2,574	22	9"	39'-9"	584	74	39'-9"	1,965	56	8'- 0"	299	49	4'- 8"	153	17'- 2"	562	17'- 6"	47	38	108	1.395	340.5	1.3	155	57.1	13,775
3	8'-0"	8'-0"	8"	7"	194	#5	5"	26'- 1"	5,278	162	#5	6"	14'- 7"	2,464	8'- 9"	1,478	194	#6	5"	17'- 5"	5,075	36	8"	39'-9"	956	104	39'-9"	2,762	56	8'- 0"	299	98	4'- 8"	305	17'- 2"	1,124	26'- 1"	70	54	153	1.992	493.5	2.0	223	81.7	19,964
4	8'-0"	8'-0"	8"	7"	194	#5	5"	34'- 8"	7,015	162	#5	6"	14'- 7"	2,464	8'- 9"	1,478	194	#6	5"	26'- 0"	7,576	48	8"	39'-9"	1,275	134	39'-9"	3,558	56	8'- 0"	299	147	4'- 8"	458	17'- 2"	1,686	34'- 8"	93	72	204	2.588	645.2	2.6	297	106.1	26,106
5	8'-0"	8'-0"	8"	7"	194	#5	5"	43'- 3"	8,751	162	#5	6"	14'- 7"	2,464	8'- 9"	1,478	194	#6	5"	34'- 7"	10,077	60	8"	39'-9"	1,593	164	39'-9"	4,355	56	8'- 0"	299	196	4'- 8"	611	17'- 2"	2,248	43'- 3"	116	90	256	3.185	796.9	3.2	372	130.6	32,248
6	8'-0"	8'-0"	8"	7"	194	#5	5"	51'-10"	10,488	162	#5	6"	14'- 7"	2,464	8'- 9"	1,478	194	#6	5"	43'- 2"	12,578	72	8"	39'-9"	1,912	194	39'-9"	5,151	56	8'- 0"	299	245	4'- 8"	764	17'- 2"	2,809	51'-10"	138	106	301	3.782	948.6	3.9	439	155.2	38,382

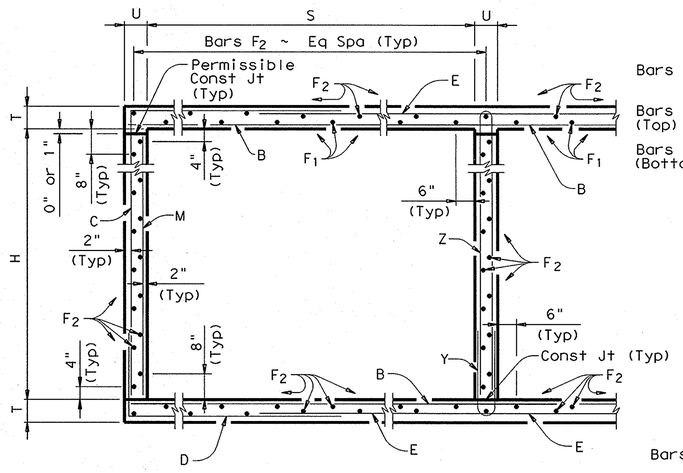
H	Bar Dimensions	
	"X"	"Y"
4'-0"	4'-6"	2'-3"
5'-0"	5'-6"	2'-3"
6'-0"	6'-6"	2'-3"
7'-0"	7'-6"	2'-3"
8'-0"	8'-6"	2'-8"



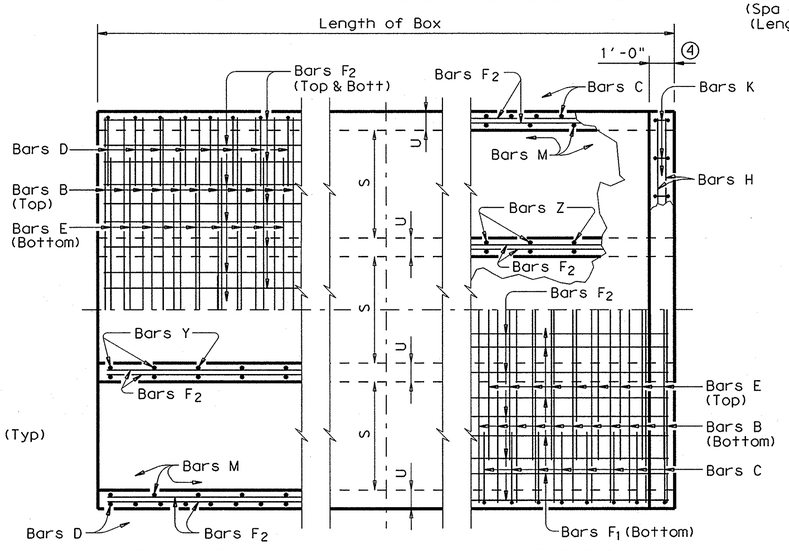
SECTION THRU CURB



BARS C BARS D BARS Z BARS Y BARS K ~ #4 (Spa = 1'-0" Max) (Length = 4'-3")



TYPICAL SECTION



BOTTOM SLAB PART PLANS TOP SLAB

GENERAL NOTES:

Designed according to current AASHTO Standard and Interim Specifications.
Designed to the maximum fill height shown.
All reinforcing steel shall be Grade 60.
All concrete shall be Class "C" with these exceptions: use Class "S" for top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface.
Class "C" concrete shall have a minimum compressive strength of 3,600 psi. Class "S" concrete shall have a minimum compressive strength of 4,000 psi.
The use of permanent forms is not allowed.
The bottom edge of the top slab shall be chamfered 3" at the entrance.
Reinforcing bars shall be adjusted to provide a minimum of 1 1/4" clear cover.
Construction joints shown at the flow line may be raised a maximum of 6" at the Contractor's option. If this option is used, Bars M may be cut off or raised, Bars C and D may be reversed, and Bars Y and Z may be reversed.
See standard MC-MD for skewed ends, angle sections and lengthening details.

① 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures without railing and curbs taller than 1'-0", refer to ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with bridge rail, other than T6, refer to RAC standard.

② For vehicle safety, the following requirements must be met:
- For structures without bridge rail, curbs shall project no more than 3" above finished grade.
- For structures with bridge rail, curbs shall be flush with finished grade.

Curb heights shall be reduced, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

③ For curbs less than 1'-0" high, tilt bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, bars K may be omitted.

④ 1'-0" typical. 2'-0" when RAC standard is referred to elsewhere in the plans.

RECORD DRAWINGS (SEPTEMBER 2010)
INFORMATION PROVIDED BY: Rogers-O'Brien Construction Company

HS20 LOADING

Texas Department of Transportation
Bridge Division

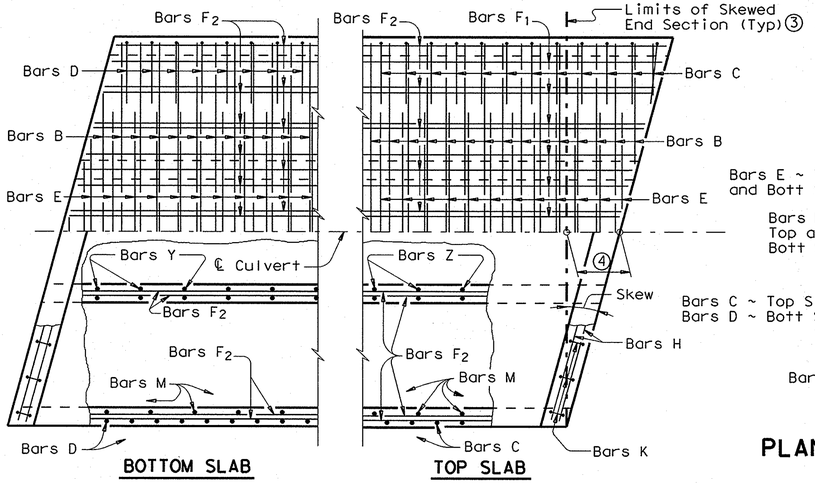
MULTIPLE BOX CULVERTS CAST-IN-PLACE 8'-0" SPAN 0' TO 13' FILL

MC-8-13

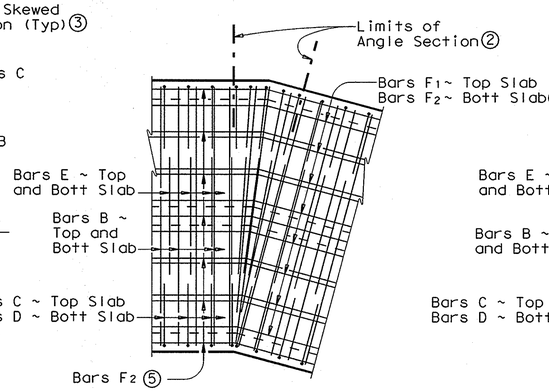
FILE: mc813ste.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
©TxDOT May 2005	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS				
	COUNTY	CONTROL	SECT	JOB	HIGHWAY

ACTIVE FILE LEVELS DISPLAYED

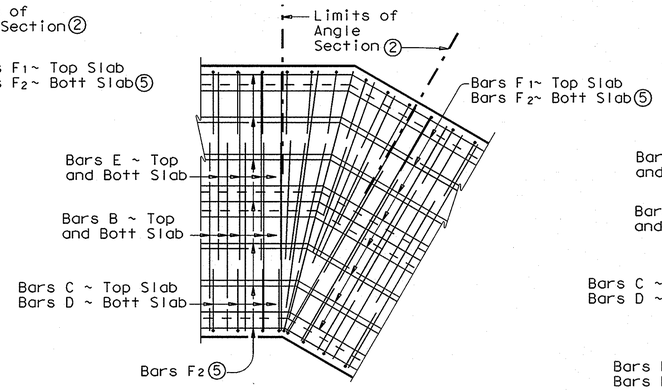
COMMENTS:



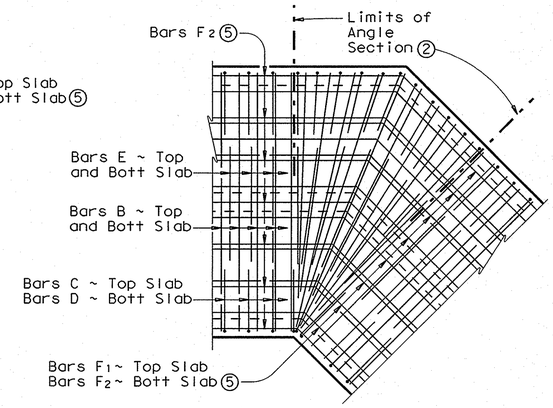
PLAN OF SKEWED ENDS ~ FROM 0° TO 15° ⑦



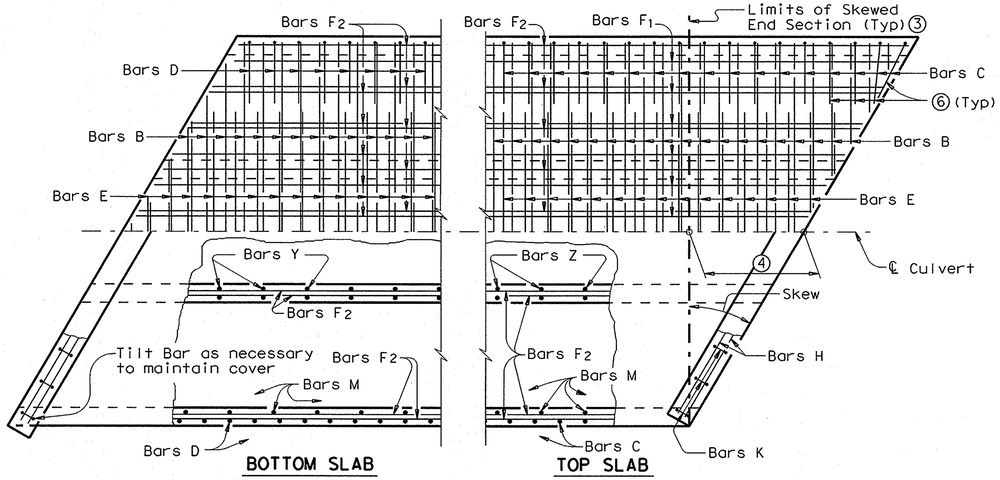
PLAN OF ANGLE SECTION ~ FROM 0° TO 15°



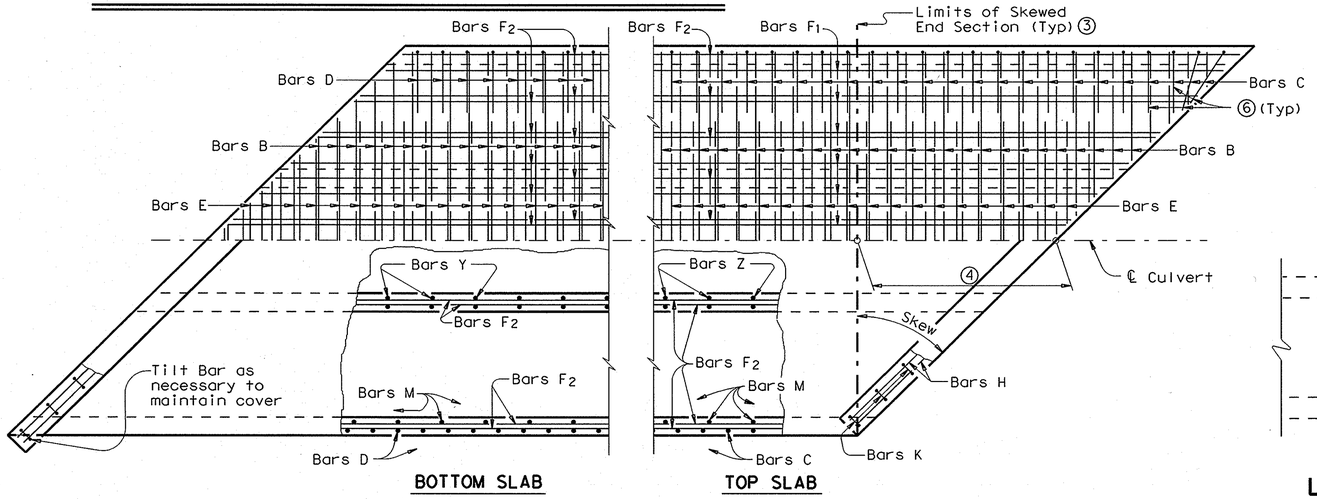
PLAN OF ANGLE SECTION ~ OVER 15° TO 30°



PLAN OF ANGLE SECTION ~ OVER 30° TO 45°



PLAN OF SKEWED ENDS ~ OVER 15° TO 30°



PLAN OF SKEWED ENDS ~ OVER 30° TO 45°

GENERAL NOTES:

Designed according to current AASHTO Standard and Interim Specifications.

All reinforcing steel shall be Grade 60.

All concrete shall be Class "C" with these exceptions: use Class "S" for top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface.

Class "C" concrete shall have a minimum compressive strength of 3,600 psi. Class "S" concrete shall have a minimum compressive strength of 4,000 psi.

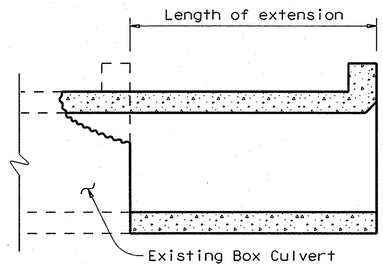
Refer to Multiple Box Culverts Cast-in-Place standard for details of straight sections of culvert. For skewed sections and angle sections refer to Multiple Box Culverts Cast-in-Place standard for slab and wall dimensions, bar sizes, maximum bar spacing, and any other details not shown. For Skewed ends with curbs, adjust length of Bars H, number of Bars K, curb concrete volume and reinforcing steel weight by dividing the values shown on the culvert standards by the cosine of the skew angle.

The use of permanent forms is not allowed.

Laps for Bars H, when required, shall be 1′-9" for uncoated bars and 2′-7" for epoxy coated.

RECORD DRAWINGS (SEPTEMBER 2010)

INFORMATION PROVIDED BY:
Rogers-O'Brien Construction Company



LENGTHENING DETAIL ①

① For box culverts with less than 2′-0" of fill, the top slab shall be broken back to provide a minimum 1′-10" lap of the existing longitudinal bars with the longitudinal bars in the extension. If the depth of fill is 2′-0" or greater, the top slab shall be broken back to provide a 1′-0" minimum embedment of existing longitudinal reinforcing into the extension. Alternatively, if the fill height is greater than 2′-0", the existing curb may be left in place and 2′-0" long #6 bars shall be drilled and grouted 1′-0" into the existing top slab at 1′-6" center to center spacing. Wings and apron shall be broken back as necessary to install the extension. Exposed wingwall and apron reinforcing may be removed or cleaned and included in the extension. When lengthening existing box culverts with dimensions different than current standard dimensions, horizontal and vertical transitions shall be formed as directed by the Engineer. Bottom slabs shall match to maintain an uninterrupted flow line. Existing and new reinforcing shall be field bent into transition maintaining specified cover requirements. For top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface, the "H" dimension may be adjusted to provide a smooth riding surface.

② When the spacing between Bars B or Bars E becomes less than half of the normal spacing, bars shall be cut to avoid fouling

③ The length of Bars B and E will vary in the skewed end sections

④ [One half of overall width] x [Tan of the skew angle]

⑤ Bars F1 and F2 shall be continuous through the angle section. They shall be bent to remain parallel to the walls of the Box Culvert.

⑥ When necessary to avoid fouling in acute corners, the slab extension leg of Bars C and Bars D may be shortened to a minimum of 1′-6" for skews of 30° and 45°.

⑦ For skews of 15° or less, the contractor has the option of placing Bars B, C, D and E parallel to the skewed end while maintaining spacing along centerline box. Lengths of Bars B and E shown on the standards shall be increased to accommodate the skew.

HS20 LOADING

Texas Department of Transportation
Bridge Division

MULTIPLE BOX CULVERTS CAST-IN-PLACE MISCELLANEOUS DETAILS

MC-MD

FILE: mc-mdste.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF		
©TxDOT May 2005	DISTRICT	FEDERAL AID PROJECT			SHEET	
REVISIONS						
	COUNTY		CONTROL	SECT	JOB	HIGHWAY