

JOHN L. SHIRLEY

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JOHNSON ELECTRIC

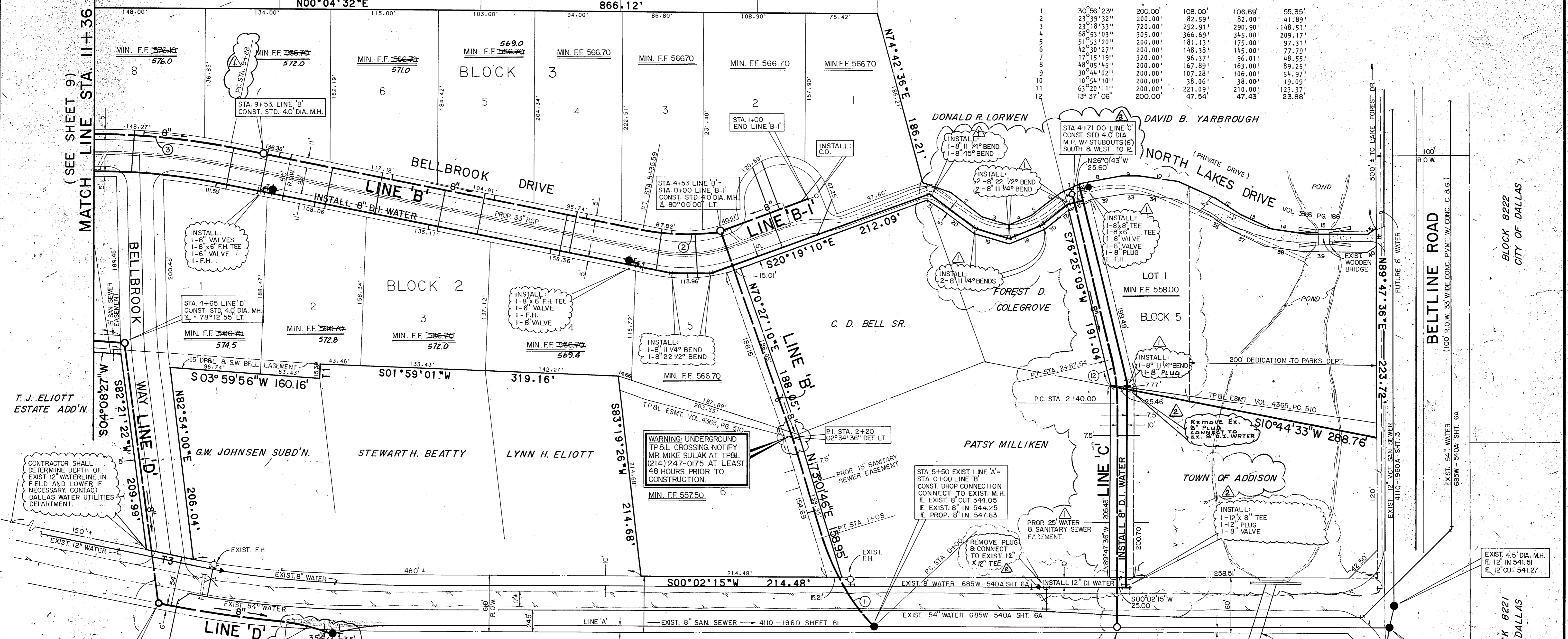
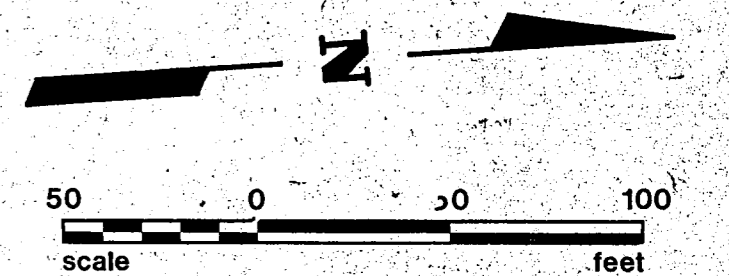
BERNARD ROOLER

JOHN P. KOKKE

REPRO	BEARING	DISTANCE	REPRO	BEARING	DISTANCE	REPRO	BEARING	DISTANCE
1	N19°06'09"E	31.15	17	S36°49'51"E	118.51	33	N00°31'43"W	15.36
2	N37°49'17"E	42.15	18	S22°44'25"E	39.81	34	N07°47'17"E	38.79
3	N16°47'17"E	29.90	19	S15°50'10"W	39.20	35	N24°29'17"E	31.95
4	N23°08'36"W	25.84	20	S36°22'10"W	42.51	36	N24°29'17"E	41.02
5	N38°31'13"W	18.33	21	S33°08'10"W	19.40	37	N08°17'17"E	41.04
6	N33°16'45"W	21.25	22	N97°45'07"E	19.55	38	N00°02'17"E	73.43
7	N26°01'43"W	23.50	23	S79°45'04"W	19.55	39	N36°22'42"W	33.43
8	N10°45'45"W	44.40	24	S00°03'52"W	12.77	40	N36°22'42"W	30.43
9	N00°31'45"W	18.60	25	S00°03'52"W	10.69	41	N89°47'36"E	24.77
10	N07°47'17"E	43.15	26	N00°03'52"E	23.47			
11	N24°23'17"E	43.15	27	S69°40'50"W	25.00			
12	N32°29'17"E	32.00	28	S32°29'17"E	32.00			
13	N24°23'17"E	36.75	29	N54°56'02"E	31.71			
14	N08°17'17"E	36.75	30	S34°44'38"E	20.80			
15	N00°02'17"E	65.40	31	N26°01'43"W	29.05			
16	N36°22'42"W	11.48	32	N10°45'45"W	32.14			

SANITARY SEWER CURVE DATA

CURVE NO.	DELTA	RADIUS	LENGTH	CHORD	TANGENT
1	30°56'23"	200.00'	108.00'	106.69'	55.35'
2	23°39'32"	200.00'	82.59'	82.00'	41.89'
3	23°18'33"	720.00'	292.91'	290.90'	148.51'
4	68°53'03"	305.00'	366.69'	345.00'	209.17'
5	51°53'20"	200.00'	181.13'	175.00'	97.31'
6	42°30'27"	200.00'	148.38'	145.00'	77.79'
7	17°15'11"	320.00'	36.37'	36.01'	48.55'
8	48°05'45"	200.00'	167.89'	163.00'	89.25'
9	30°44'02"	200.00'	107.28'	106.00'	54.97'
10	10°54'10"	200.00'	38.06'	38.00'	19.09'
11	63°20'11"	200.00'	221.09'	210.00'	123.37'
12	13°37'06"	200.00'	47.54'	47.43'	23.88'



WARNING: UNDERGROUND TP&L CROSSING. NOTIFY MR. MIKE SULAK AT TP&L (214) 247-0175 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

- GENERAL WATER AND SANITARY SEWER NOTES**
- ALL WATER MAINS SHALL BE DUCTILE IRON CLASS 51 WATER PIPE WITH POLYETHYLENE WRAP ON PIPE, FITTINGS, AND FIRE HYDRANT BASES.
 - ALTERNATE - ALL 8" WATER MAINS SHALL BE PVC CLASS 200 WATER PIPE. FOR PVC SERVICE TAPS, TAPPINGS SADDLE SHALL BE USED.
 - 8" WATER MAINS SHALL HAVE A MINIMUM COVER OF 48" BELOW FINISHED STREET GRADE OR 60" DEPTH IN UNIMPROVED STREETS OR AS REQUIRED TO CLEAR OTHER UTILITIES.
 - ALL WATER DEADHEADS SHALL BE 1" COPPER, LOCATED AS SHOWN, AND REFERENCED AS FOLLOWS: TOTAL 45 1" DEADHEADS.
 - ALL SANITARY SEWER LATERALS SHALL BE 6", LOCATED AS SHOWN, AND REFERENCED AS FOLLOWS: TOTAL 45 6" LATERALS.
 - ALL WATER AND SANITARY SEWER LATERALS SHALL BE SEPARATED BY 10 FEET (MINIMUM).
 - EXTEND WATER DEADHEADS AND SANITARY SEWER LATERALS 2' BEYOND PROPOSED CURBS, UNLESS OTHERWISE SHOWN.
 - CONSTRUCTION SHALL BE IN ACCORDANCE WITH NCTCOG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - BULLHEAD SERVICES AND METER WILL BE INSTALLED BY THE CITY.
 - CONTRACTOR SHALL USE 5° BEVEL BEND PIPE FOR PVC SANITARY SEWER IF NEEDED; DO NOT PULL PVC PIPE.
 - REFER TO SHEET 16 FOR EMBEDMENT DETAILS.

- BENCHMARK LIST:**
- BM #1 RAILROAD SPIKE IN THE NORTH SIDE OF A POWER POLE APPROXIMATELY 620 FEET SOUTH OF BELTLINE ROAD AND 150 FEET WEST OF WINNWOOD ROAD ELEV. 560.69
 - BM #2 RAILROAD SPIKE IN THE WEST SIDE OF A POWER POLE APPROXIMATELY 1300 FEET SOUTH OF BELTLINE ROAD AND 230 FEET WEST OF WINNWOOD ROAD ELEV. 569.89

REVISIONS

DESIGNED BY: *Dennis Brown* DATE: 5-23-85

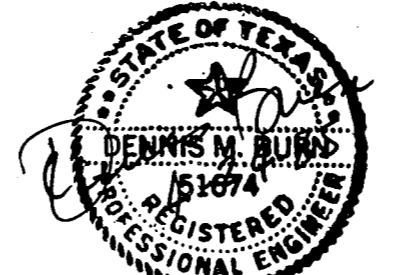
R.O.W. APPROVED: _____ DATE: _____

ENGINEER OF DESIGN: *Walter Reed* DATE: 6-12-85

CONTRACT NO. _____ DATE: _____

REVISIONS:

- MOVE PROPOSED FIRE HYDRANT TO THE WEST. LOOPED WATERLINE IN NORTHLAKES DRIVE, REMOVED WATERLINE PARALLEL TO LINE 'B'. REVISED STA. 9+88' LINE 'B'
- REVISED LOCATION OF EXISTING MANHOLE LINE 'D'



DESIGNED BY: *Dennis Brown P.E.* DATE: 4-24-85

R.O.W. APPROVED: _____ DATE: _____

ENGINEER OF DESIGN: *Walter Reed* DATE: 5-6-85

CONTRACT NO. 85-331P 85-332P MIDWEST BRIDGE DATE: 4-22-85

WATER & SANITARY SEWER PLAN

BELTBROOK ESTATES

SHARIF MUNIR DAVIDSON DEVELOPMENT CORP.

WATER UTILITIES DEPARTMENT

CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
D.M.B.	L.A.H.	DEC. 1984	1"=50'			411Q 1960

EH&A JOB NO. 5676 SHEET 10 OF 17