

JOHN L. SHIRLEY

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JOHNSON ELECTRIC

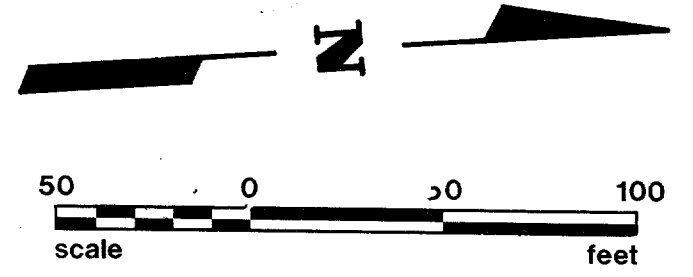
BERNARD ROOLER

JOHN P. KOKKE

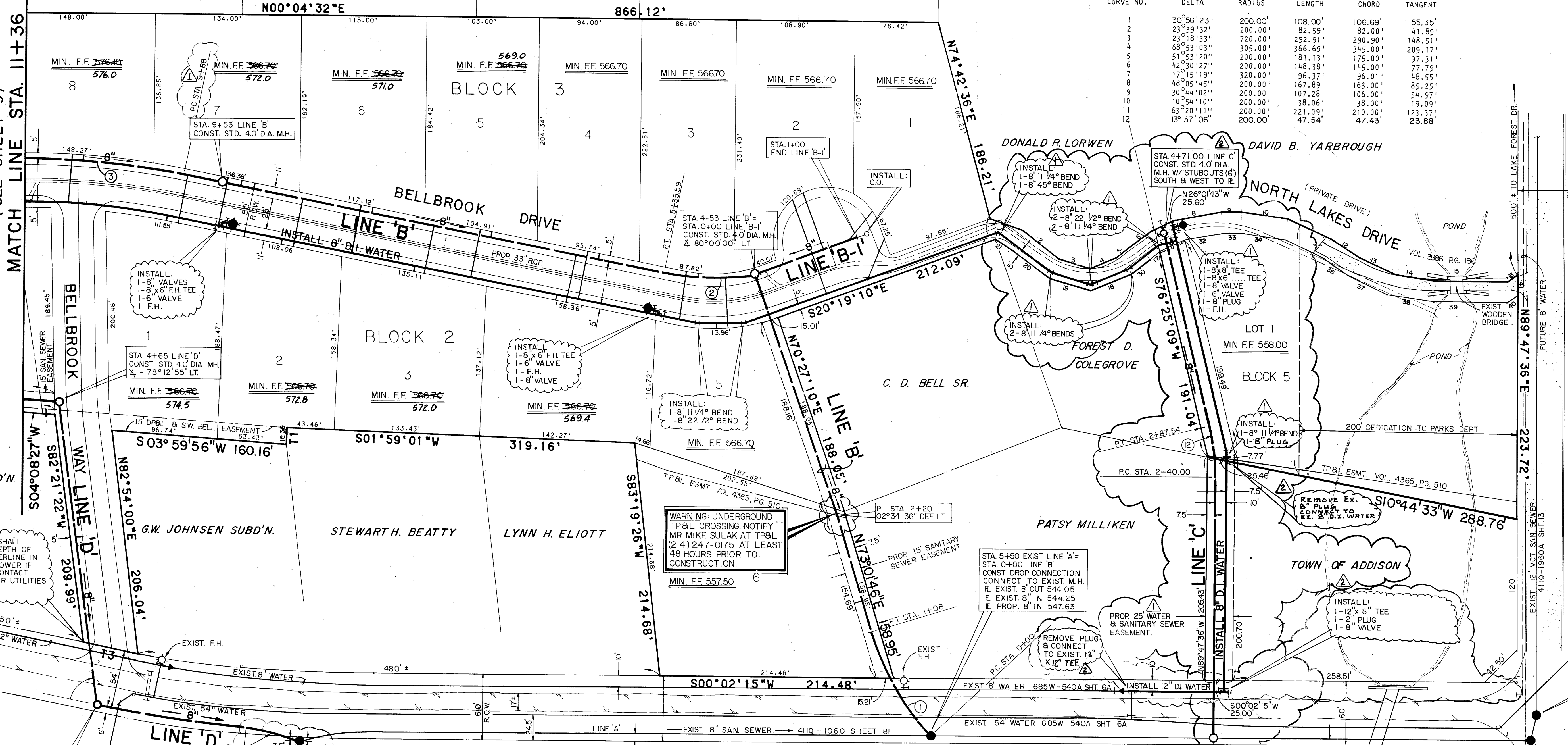
REF. NO.	BEARING	DISTANCE	REF. NO.	BEARING	DISTANCE
1	N18°06'09"E	31.15'	17	S36°49'51"E	11.85'
2	N57°49'17"E	42.15'	18	S22°44'29"E	39.81'
3	N16°47'17"E	29.50'	19	S18°50'10"W	39.20'
4	N23°08'36"W	25.84'	20	S36°22'10"W	42.15'
5	N35°31'13"W	18.33'	21	S33°08'10"W	18.40'
6	N37°18'43"W	18.35'	22	N87°45'07"E	19.36'
7	N26°01'43"W	23.50'	23	S79°49'04"W	05.77'
8	N10°45'43"W	44.40'	24	N00°00'00"E	10.69'
9	N00°31'43"W	18.60'	25	S00°03'52"E	23.47'
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	50.89'
12	N52°39'17"E	32.00'	28	S69°40'50"W	50.89'
13	N24°29'17"E	36.75'	29	N54°56'02"E	31.71'
14	N08°19'17"E	38.75'	30	S34°44'38"E	30.80'
15	N00°02'17"E	65.40'	31	N26°01'43"W	29.05'
16	N36°22'42"W	11.48'	32	N10°45'43"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	66°53'03"	305.00'	181.13'	175.00'	209.17'
5	51°53'20"	200.00'	148.38'	145.00'	48.55'
6	40°30'27"	200.00'	96.37'	93.11'	89.25'
7	17°15'19"	320.00'	167.89'	163.00'	54.97'
8	46°05'45"	200.00'	107.28'	106.00'	19.09'
9	30°44'02"	200.00'	38.06'	38.00'	23.37'
10	10°54'10"	200.00'	221.09'	210.00'	47.43'
11	63°20'11"	200.00'	47.54'	47.43'	23.88'
12	13°37'06"	200.00'			



(SEE SHEET 9)
MATCH LINE STA. 11+36



CONTRACTOR SHALL DETERMINE DEPTH OF EXIST. 12" WATERLINE IN FIELD AND LOWER IF NECESSARY CONTACT DALLAS WATER UTILITIES DEPARTMENT.

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

STA. 5+50 EXIST. LINE 'A' = STA. 0+00 LINE 'B' CONST. DROP CONNECTION CONNECT TO EXIST. M.H. R. EXIST. 8" OUT 544.05 E. EXIST. 8" IN 544.25 E. PROP. 8" IN 547.63

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 520 FEET SOUTH OF BELLBROOK ROAD AND 150 FEET WEST OF WANNWOOD ROAD ELEV. 560.69
 - BM #2 RAILROAD SPIKE IN THE WEST SIDE OF A POWER POLE APPROXIMATELY 1300 FEET SOUTH OF BELLBROOK ROAD AND 230 FEET WEST OF WANNWOOD ROAD ELEV. 569.89

REVISIONS

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

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

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

CONTRACT NO.: _____ DATE: _____

REMOVED LOCATION OF EXISTING MANHOLE LINE 'D'

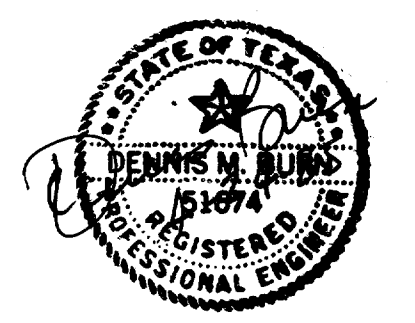
DESIGNED BY: *eh* ESPEY, HUSTON & ASSOCIATES, INC.
Engineering & Environmental Consultants
333 W. Campbell Rd., Richardson, Texas 75080
(214) 689-9800

Denis Brown P.E. DATE: 4-24-85

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

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

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



WATER & SANITARY SEWER PLAN						
BELLBROOK 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