

JOHN L. SHIRLEY

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JOHNSON ELECTRIC

BERNARD ROULER

JOHN P. KOKKE

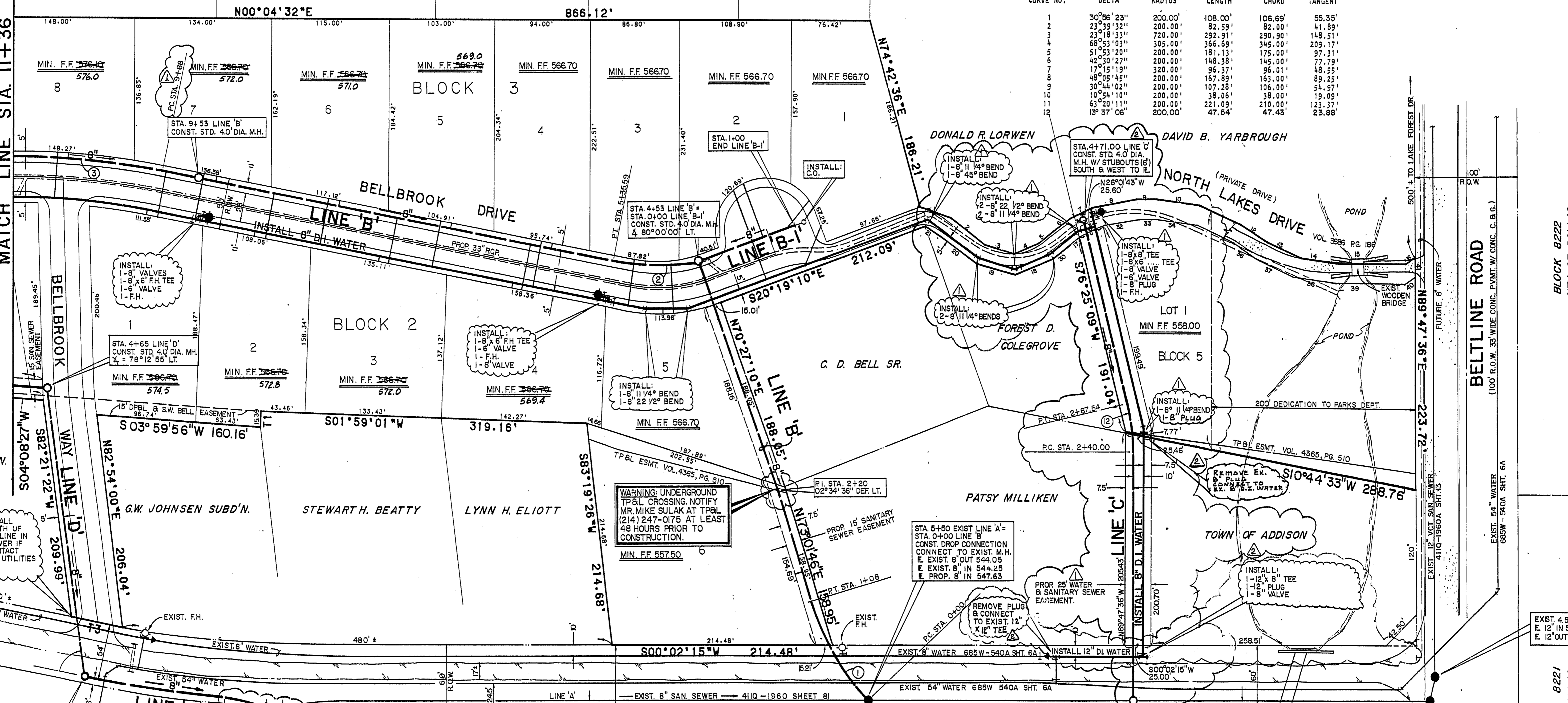
REP. NO.	BEARING	DISTANCE	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
1	N10°06'09"E	31.18'	S36°49'11"E	11.85'	33	N00°31'45"W	15.36'											
2	N37°49'17"E	42.15'	S22°44'29"E	38.81'	34	N07°47'17"E	38.78'											
3	N19°47'17"E	29.90'	S18°30'16"W	39.20'	35	N28°23'17"E	38.79'											
4	N23°08'16"W	28.84'	S23°08'16"W	30.95'	36	N32°38'17"E	31.98'											
5	N38°31'13"W	18.33'	S35°08'10"W	19.40'	37	N28°29'17"E	41.02'											
6	N37°18'45"W	21.25'	S23°08'16"W	19.56'	38	N08°19'17"E	41.04'											
7	N08°45'45"W	44.40'	S00°03'52"E	12.77'	39	N00°03'17"E	73.43'											
8	N00°51'45"W	18.60'	S00°03'52"E	10.65'	40	N38°22'42"W	03.49'											
9	N07°47'17"E	43.15'	S00°03'52"E	23.41'	41	N89°47'36"E	24.77'											
10	N24°23'17"E	43.15'	S69°40'50"E	23.00'														
11	N32°38'17"E	32.00'	S69°40'50"E	23.00'														
12	N24°29'17"E	36.75'	S54°56'02"E	31.71'														
13	N08°19'17"E	36.75'	S34°44'38"E	20.80'														
14	N00°03'17"E	68.40'	S28°04'17"W	28.00'														
15	N36°22'42"W	11.48'	S00°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°15'19"	320.00'	96.37'	96.01'	48.55'
8	48°05'45"	200.00'	167.89'	163.00'	89.25'
9	30°04'02"	200.00'	107.28'	106.00'	54.97'
10	10°04'10"	200.00'	38.00'	38.00'	19.09'
11	63°20'11"	200.00'	211.00'	210.00'	123.37'
12	15°37'06"	200.00'	47.54'	47.43'	23.68'



(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 SULKAT AT TP&L (214) 247-0175 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

GENERAL WATER AND SANITARY SEWER NOTES

1. ALL WATER MAINS SHALL BE DUCTILE IRON CLASS 51 WATER PIPE WITH POLYETHYLENE WRAP ON PIPE, FITTINGS, AND FIRE HYDRANT BASES.
2. ALTERNATE - ALL 8" WATER MAINS SHALL BE PVC CLASS 200 WATER PIPE. FOR PVC SERVICE TAPS, TAPPINGS SADDLE SHALL BE USED.
3. 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.
4. ALL WATER DEADHEADS SHALL BE 1" COPPER, LOCATED AS SHOWN, AND REFERENCED AS FOLLOWS: TOTAL 45 1" DEADHEADS.
5. ALL SANITARY SEWER LATERALS SHALL BE 6", LOCATED AS SHOWN, AND REFERENCED AS FOLLOWS: TOTAL 45 6" LATERALS.
6. ALL WATER AND SANITARY SEWER LATERALS SHALL BE SEPARATED BY 10 FEET (MINIMUM).
7. EXTEND WATER DEADHEADS AND SANITARY SEWER LATERALS 2' BEYOND PROPOSED CURBS, UNLESS OTHERWISE SHOWN.
8. CONSTRUCTION SHALL BE IN ACCORDANCE WITH NCTCOG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
9. BULLHEAD SERVICES AND METER WILL BE INSTALLED BY THE CITY.
10. CONTRACTOR SHALL USE 5° BEVEL BEND PIPE FOR PVC SANITARY SEWER IF NEEDED; DO NOT PULL PVC PIPE.
11. 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 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: *David Brown* DATE: 5-23-85

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

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

CONTRACT NO. _____ DATE: _____

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



DESIGNED BY: *eh* ESPEY, HUSTON & ASSOCIATES, INC.
Engineering & Environmental Consultants
333 W. Campbell Rd. Richardson, Texas 75080
(214) 889-9600

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

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

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

CONTRACT NO. 85-310 85-332 BRIDGE 1-85

WATER & SANITARY SEWER PLAN					
BELLBROOK ESTATES					
SHARIF · MUNIR · DAVIDSON DEVELOPMENT CORP.					
WATER UTILITIES DEPARTMENT					
CITY OF DALLAS, TEXAS					
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE
D.M.B.	L.A.H.	DEC. 84	1"=50'		411Q 1960