

Z - 2 - 84

84

LOCATION

HOUSTON & GREAT NORTHERN R R

Through Smith & other Counties

Filed- March 3, 1877.

Office of the
Houston & Great Northern Railroad Co
Houston, Texas. Nov 9, 1872.

I hereby certify that the following is a correct description of the line and curves of the Houston and Great Northern Railroad, from the North face of the South abutment of the Trinity River bridge to a junction with the International Railroad, as located, completed, and being constructed, and as shown by map showing line profile and grades, filed herewith.

The Right of Way taken or obtained is one hundred & fifty (150) feet in width. The lands for use of stations so far as determined are indicated on the map.

Beginning at the ^{center of the} North face of the South abutment of the Trinity River bridge. Thence following a tangent line the magnetic course of which is N. 8.° 4' E. 2803 feet. Thence curving to the right with a radius of 5730 feet, 3153 feet thence following a tangent N 39.° 36' E 3828 feet thence curving to the left with a radius of 2865 feet, 2462 feet thence following a tangent N 9.° 37' W. 4708 feet

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thence curving to the right with a radius of 5730 feet, 1482 feet - thence following a tangent N. 4° 41' W. 13265 feet - thence curving to the left with a radius of 5730 feet, 1680 feet - thence following a tangent N. 21° 30' W. 6444 feet - thence curving to the right with a radius of 2865 feet, 875 feet - thence following a tangent N. 4° W. 3325 feet - thence curving to the left with a radius of 11459 feet, 1200 feet - thence following a tangent N. 9° 30' W. 5500 feet - thence curving to the left with a radius of 5730 feet, 800 feet - thence following a tangent N. 17° 36' W. 2325 feet - thence curving to the right with a radius of 11459 feet, 1766 feet - thence following a tangent N. 8° 40' W. 3759 feet - thence curving to the left with a radius of 2292 feet, 760 feet - thence following a tangent N. 27° 40' W. 1465 feet - thence curving to the left with a radius of 5730 feet, 478 feet - thence following a tangent N. 35° 27' W. 9707 feet - thence curving to the right with a radius of 2865 feet, 872 feet - thence following a tangent N. 18° W. 2368 feet - thence curving to the left with a radius of 2865 feet, 1450 feet - thence following a tangent N. 47° W. 4600 feet - thence curving to the right with a radius

of 34.377 feet, 2300 feet - thence following
a tangent N. 43° 10' W. 4432 feet. thence
curving to the right with a radius of 2865
feet, 892 feet - thence following a tangent
N 25° 20' W 3326 feet - thence curving to the
left with a radius of 2865 feet, 1500 feet -
thence following a curve with a radius
of 3820 feet, 1300 feet - thence following a
tangent N 74° 50' 1050 feet; thence curving
to the right with a radius of 2865 feet, 2300
feet - thence following a tangent N. 28° 50' W.
2303 feet - thence curving to the left with
a radius of 894 feet, 965 feet - thence
following a tangent N 35° 16' W 23.7 feet
thence curving to the right with a radius
of 2865 feet, 1000 feet - thence following a
tangent N 15° 16' W. 1865 feet; thence
curving to the left with a radius of
2865 feet, 1062 feet; thence following
a tangent N. 36° 30' W. 10.663 feet - thence
curving to the right with a radius
of 3820 feet; 1075 feet - thence following
a tangent N. 20° 22' W 2100 feet; thence
curving to the left with a radius of
2292 feet, 925 feet; thence following a
tangent North 43° 30' W. 5643 feet - thence
curving to the right with a radius of
3820 feet, 1801 feet - thence following a
tangent N. 16° 30' W. 4471 feet - thence

curving to the left with a radius of 5730
feet, 1400 feet - thence following a
tangent N. 30° 30' W. 1314 feet - thence
curving to the right with a radius of
2292 feet, 1033 feet; thence following
a tangent N. 4° 41' W. 6863 feet - thence
curving to the left with a radius of
1910 feet, 911 feet; thence following a
tangent N. 32° W. 1539 feet - thence curving
to the right with a radius of 1433 feet,
1329 feet - thence following a tangent
N. 21° 10' E. 3071 feet thence curving to the
left with a radius of 2865 feet, 1708 feet -
thence following a tangent N. 13° W. 5143
feet; thence curving to the right with a
radius of 5730 feet, 1640 feet - thence
following a tangent N. 3° 24' E. 2811 feet -
thence curving to the right with a
radius of 5730 feet, 538 feet - thence
following a tangent N. 8° 45' E. 14607 feet -
thence curving to the left with a radius
of 1637 feet, 1621 feet - thence following
a tangent N. 48° W. 1386 feet - thence curving
to the right with a radius of 5730 feet,
1400 feet - thence following a tangent
N. 44° W. 3450 feet - thence curving to the
right with a radius of 2865 feet, 878
feet - thence following a tangent N. 26° 30'
W. 3635 feet - thence curving to the right

with a radius of 2865 feet, 1050 feet
thence following a tangent N. 5° 30' W.
5541 feet - thence curving to the left
with a radius of 5730 feet, 450 feet -
thence following a tangent N. 10° W. 9312
feet - thence curving to the left with a
radius of 2865 feet, 1216 feet - thence
following a tangent N. 34° 20' W. 1834
ft - thence curving to the right with a
radius of 2865 ft, 550 feet - thence
following a tangent N. 28° 20' W. 3250 feet
thence curving to the left with a radius
of 2865 feet, 1150 feet - thence following
a tangent N. 46° 20' W. 1350 feet - thence
curving to the right with a radius of
2865 feet, 1300 feet; thence following a
tangent N. 20° 20' W. 925 feet; thence
curving to the right with a radius of 2865
feet, 1025 feet; thence following a tangent
N. 0° 10' E. 200 feet - thence curving to the
left with a radius of 2865 feet, 975 feet
thence following a tangent N. 19° 20' W. 700
feet - thence curving to the right with a
radius of 2865 feet, 1275 feet; thence
following a tangent N. 6° 10' E. 3800 feet -
thence curving to the left with a radius
of 2865 feet, 400 feet; thence following
a tangent N. 1° 50' W. 1100 feet - thence
curving to the right with a radius of

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2865 feet, 1000 feet - thence following a
tangent N. 18° 10' E. 1285 feet; thence
curving to the left with a radius of
5730 feet, 250 feet; thence following a
tangent N. 15° 46' E. 1515 feet - thence curving
to the left with a radius of 5730 feet,
3150 feet; thence continuing the curve
with a radius of 2865 feet, 500 feet;
thence following a tangent N. 25° 50' W
100 feet; thence curving to the right with
a radius of 1433 feet, 1000 feet; thence
following a tangent N. 14° 10' E. 1100 feet
thence curving to the left with a
radius of 5730 feet, 500 feet; thence
following a tangent N. 9° 16' E. 750 feet;
thence curving to the right with a
radius of 1433 feet, 764 feet; thence
following a tangent N. 39° 45' E. 986 ft;
thence curving to the left with a radius
of 1910 feet, 600 feet; thence continuing
the curve with a radius of 1433 feet,
1600 feet; thence following a tangent
N. 42° 15' W. 6280 feet; thence curving to
the right with a radius of 1433 feet,
1244 feet; thence following a tangent
7° 31' E. 2276 feet - thence curving to
the left with a radius of 2865 feet,
1335 feet; thence following a tangent
N. 18° 59' W. 2555 feet; thence curving to

the left with a radius of 2865 feet,
1025 feet; thence following a tangent
N. 39° 29' W. 835 feet; thence curving to
the right with a radius of 2865 feet,
1980 feet; thence following a tangent
North 0° 7' E. 1089 feet; thence curving
to the left with a radius of 1910 feet,
1370 feet; thence following a tangent
North 40° 59' W. 1617 feet; thence curving
to the right with a radius of 1910 feet,
1150 feet; thence following a tangent
N. 6° 29' W. 3990 feet; thence curving to
the left with a radius of 8594 feet,
3944 feet; thence continuing the
curve with a radius of 5730 feet, 1200
feet; thence following a tangent N. 44°
47' W. 700 feet; thence curving to the
right with a radius of 5730 feet, 1400
feet; thence following a tangent N. 30°
47' W. 500 feet; thence curving to the
left with a radius of 2865 feet, 1000
feet; thence following a tangent N. 50°
47' W. 2000 feet; thence curving to the
left with a radius of 5730 feet, 1100
feet; thence following a tangent N. 01° 47'
W. 1500 feet; thence curving to the right
with a radius of 1433 feet, 900 feet; thence
following a tangent N. 25° 47' W. 480 feet;
thence curving to the left with a radius

of 1433 feet, 817 feet; thence following a
tangent N. 58.° 27' W. 4903 feet; thence
curving to the right with a radius of
5730 feet, 800 feet; thence following a
tangent N. 50.° 27' W. 217 feet; thence
curving to the left with a radius of
2865 feet, 783 ft; thence continuing the
curve with a radius of 1910 feet, 300
feet; thence following a tangent N. 75.
4' W. 800 feet; thence curving to the
right with a radius of 1433 feet, 775
feet thence following a tangent N. 44.
4' W. 1739 feet; thence curving to the left
with a radius of 1910 feet, 990 feet; thence
following a tangent N. 73.° 49' W. 1496 feet;
thence curving to the right with a radius
of 1910 feet, 300 feet; thence following
a tangent N. 36.° 53' W. 400 feet; thence
curving to the left with a radius of 1433
feet, 957 feet; thence following a tangent
N. 75.° 11' W. 1343 feet; thence curving to
the left with a radius of 2865 feet, 500
feet; thence following a tangent N. 85.
11' W. 475 feet; thence curving to the
right with a radius of 5730 feet, 750
feet; thence following a tangent N. 77.
41' W. 2375 feet; thence curving to the
left with a radius of 5730 feet, 600 ft;
thence following a tangent N. 83.° 41' W. 530

feet; thence curving to the right with
a radius of 2292 feet, 950 feet; thence
following a tangent N. 59° 56' W. 1527
feet; thence curving to the left with
a radius of 5730 feet, 1087 feet; thence
following a tangent N. 70° 48' W. 2584
feet; thence curving to the right with
a radius of 5730 feet, 1602 feet; thence
continuing the curve with a radius of
3820 feet, 500 feet; thence following
a tangent N. 47° 17' W. 500 feet; thence
curving to the left with a radius of
2865 feet, 400 feet; thence continuing
the curve with a radius of 5730 feet,
1000 feet; thence continuing the curve
with a radius of 1910 feet, 712 feet;
thence following a tangent N. 86° 37' W.
1988 feet; thence curving to the right
with a radius of 5730 feet, 600 feet;
thence following a tangent N. 80° 37' W.
1300 feet; thence curving to the left
with a radius of 5730 feet, 800 feet;
thence following a tangent N. 88° 07' W. 1650
feet; thence curving to the right with a
radius of 1910 feet, 1350 feet; thence
following a tangent N. 48° 7' W. 800 feet;
thence curving to the right with a radius
of 1433 feet, 1560 feet; thence following a
tangent N. 14° 17' E. 3640 feet; thence

Curving to the left with a radius of
8594 feet, 900 feet; thence continuing
the curve with a radius of 1433 feet,
600 feet; thence continuing the curve
with a radius of 2865 feet, 1000 feet;
thence following a tangent N 35.° 43' W.
360 feet; thence curving to the right
with a radius of 1910 feet, 960 feet;
thence following a tangent N 6.° 53' W.
2540 feet; thence curving to the left
with a radius of 1910 feet, 1517 feet;
thence following a tangent N. 52.° 27' W.
2948 feet; thence curving to the right
with a radius of 2865 feet, 3500 feet;
thence following a tangent N. 17.° 03' E
1475 feet; thence curving to the left
with a radius of 5730 feet, 460 feet;
thence following a tangent N. 12.° 57' E
1880 feet; thence curving to the right
with a radius of 1910 feet, 1000 feet;
thence following a tangent N. 42.° 57'
E. 860 feet; thence curving to the left
with a radius of 5730 feet, 1650 feet;
thence continuing the curve with a
radius of 4584 feet, 1410 feet; thence
continuing the curve with a radius
of 1433 feet, 1140 feet; thence following
a tangent N. 36.° 50' W. 300 feet; thence
curving to the right with a radius of

1433 feet, 775 feet; thence following
a tangent N 5° 50' W. 2200 feet; thence
curving to the left with a radius of
1433 feet, 1204 feet; thence following
a tangent N 53° 59' W. 2111 feet; thence
curving to the right with a radius of
1910 feet, 610 feet; thence following
a tangent N 35° 41' W. 680 feet; thence
curving to the right with a radius
of 1910 feet, 787 feet; thence follow-
ing a tangent N 12° 5' W. 1563 feet;
thence curving to the left with a
radius of 1433 feet, 1330 feet; thence
following a tangent N 73° 17' W. 2222 feet;
thence curving to the right with a
radius of 1433 feet, 1059 feet; thence
following a tangent N 30° 55' W. 2559 feet;
thence curving to the left with a radius
of 3820 feet, 500 feet; thence following
a tangent N 38° 25' W. 1484 feet; thence
curving to the right with a radius of
410 feet, 828 feet to an intersection
with International Railroad.

(Sgd)

E. A. Crow

Presdt

I certify to the foregoing being a correct
copy of the records in the Surveyors
office of the St. G. & A. R. Co.

R. A. Hayes

Palatine Mar 17 77

Surveyor & Chf Engr

paid March 23/77
J. J. Moore & Co.

COUNTER 69318

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Office of the Houston and
Great Northern Railroad Co

Houston, Tex. Aug 17. '71

I hereby ^{certify} that the following is a correct description of the line and curves of the Houston & Great Northern Railroad from the City of Houston to the Trinity river as located completed and being constructed and as shown by map showing line profile and grades filed herewith.

The Right of way taken or obtained is one hundred and fifty (150) feet in width. The lands for use of Stations so far as determined are indicated on the map.

Beginning at a point in the centre of Broadway Street in the City of Houston distant 10 feet on a course $S 26^{\circ} 10' E$ from the intersections of the centre lines of Broadway and Franklin Streets in said city. Thence running $N. 25^{\circ} 52' W$ parallel to and distant $28\frac{1}{2}$ feet from the centre line of the Galveston & Houston Junction Railroad 76 feet. Thence following a line curving to the right having a radius of 1432 feet 1262 feet.

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Thence following a tangent line $N 24^{\circ} 37' E$ 1542 feet. Thence following a line curving to the left having a radius of 1910 feet 1171 feet. Thence following a tangent line North $10^{\circ} 33' W$ 5780 feet. Thence following a line curving to the left having a radius of 2865 feet 854 feet. Thence reversing and following a line curving to the right having a radius of 2865 feet 890 feet. Thence following a tangent line $N 9^{\circ} 50' W$ 2490 feet. Thence following a line curving to the left having a radius of 5730 feet 167 feet. Thence following a tangent line $N 21^{\circ} 30' W$ 163580 feet. Thence following a line curving to the right having a radius of 5730 feet 1234 feet. Thence following a tangent line $N 8^{\circ} 46' W$ 31349 feet. Thence following a line curving to the left having a radius of 5730 feet 760 feet. Thence following a tangent line $N 16^{\circ} 45' W$ 20178 feet. Thence following a line curving to the left having a radius of 2865 feet 1021 feet. Thence following a tangent line $N 37^{\circ} 5' W$ 3975 feet. Thence following a line curving to the right having a radius of 2292 feet 900 feet. Thence following a tangent line $N 14^{\circ} 35'$

W. 586 feet. Thence following a line curving to the right having a radius of 11460 feet 2300 feet. Thence following a tangent line N 26° 4' W. 2989 feet. Thence following a line curving to the right having a radius of 8594 feet 1050 feet. Thence following a tangent line N 19° 4' W 4085 feet. Thence following a line curving to the right having a radius 2865 ft 1650 ft. Thence following a tangent line N 4° 14' E 1650 ft. Thence following a line curving to the left having a radius of 5730 feet 1600 feet. Thence following a tangent line N 11° 46' W 6921 ft. Thence following a line curving to the right having a radius of 2865 feet 1175 feet. Thence following a tangent line N 11° 44' E 2919 feet. Thence following a line curving to the left having a radius of 5730 feet 725 feet. Thence following a tangent line N 4° 29' E 2165 feet. Thence following a line curving to the left having a radius of 1910 feet 1420 feet. Thence following a tangent line N 39° 07' W 5302 feet. Thence following a line curving to the right having a radius of 2865 feet 1203 feet. Thence following a tangent line North 15° 34'

W. 9190 feet. Thence following a line curving to the right having a radius of 5730 feet 2005 feet. Thence following a tangent line $N 5^{\circ} 3' E$ 11275 feet. Thence following a line curving to the left having a radius of 3820 feet 1850 feet. Thence following a tangent line $N 22^{\circ} 14' W$ 4085 feet. Thence following a line curving to the right having a radius of 4297 feet 1710 feet. Thence following a tangent line $N 0^{\circ} 32' E$ 2935 feet. Thence following a line curving to the left having a radius of 2865 feet 1455 feet. Thence following a tangent line $N 29^{\circ} 54' W$ 4490 feet. Thence following a line curving to the right having a radius of 5730 feet 2700 feet. Thence following a tangent line $N 2^{\circ} 54' W$ 7600 feet. Thence following a line curving to the right having a radius of 1910 feet 1000 feet. Thence following a tangent line $N 48^{\circ} 41' E$ 1600 feet. Thence following a line curving to the left having a radius of 2865 feet 800 feet. Thence following a tangent line $N 32^{\circ} 45' E$ 940 feet. Thence following a line curving to the right having a radius of

2865 feet 860 feet. Thence following
ing a tangent line N 50' E 900 feet.
Thence following a line curving to
the left having a radius of 1432 ft
1250 feet. Thence following a tangent
line due North 2750 feet. Thence
following a line curving to the right
having a radius of 1910 feet 1450 feet.
Thence following a tangent line N
45° 30' E 2420 feet. Thence follow-
ing a line curving to the left having
a radius of 1910 feet 1385 feet. Thence
following a tangent line N 1° 45' E
3795 feet. Thence following a line
curving to the left having a radius
of 2865 feet 1090 feet. Thence follow-
ing a tangent line N 19° 53' W 3080
feet. Thence following a line curving
to the right having a radius of
3820 feet 2280 feet. Thence following
a line curving to the right having a
radius of 5730 feet 2200 feet. Thence
following a tangent line N 36° 19' E
1525 feet. Thence following a line
curving to the left having a radius
of 5730 feet 1050 feet. Thence following
a tangent line N 25° 49' E 1550 feet.
Thence following a line curving to the
right having a radius of 1432 ft 1100 ft.

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Thence following a tangent line N.
69° 49' E. 1015 feet. Thence following a
line curving to the left having a
radius of 2910 feet 1335 feet. Thence
following a tangent line N 29° 45' E.
3725 feet. Thence following a line
curving to the right having a radius
of 5730 feet 1200 feet. Thence following
a tangent line N 41° 45' E. 2256 feet.
Thence following a line curving to the
left having a radius of 3820 feet
2505 feet. Thence following a tangent
line N. 11° 10' E. 1279 feet. Thence follow-
ing a line curving to the left having
a radius of 2865 feet 2250 feet.
Thence following a tangent line N.
40° 30' W. 770 feet. Thence following a
line curving to the right having a
radius of 3820 feet 2200 feet. Thence
following a tangent line N. 7° 30' W
5790 feet. Thence following a line
curving to the left having a radius
of 5730 feet 1850 feet. Thence
following a tangent line N 26° W
7360 feet. Thence following a line
curving to the right having a radius
of 8595 feet 1700 feet. Thence
following a tangent line N. 14° 7' W
6270 feet. Thence following a line

curving to the right having a
radius of 2292 feet 2250 feet.
Thence following a tangent line
N 42° 8' E 2020 feet. Thence following
a line curving to the left having a
radius of 1402 feet 1005 feet. Thence
following a tangent line N 1° 56' W 375
feet. Thence following a line curving
to the right having a radius of 2292
feet 400 feet. Thence following a
tangent line N 8° 4' E 475 feet. to
the North face of the South abutment
of the Trinity River Bridge of the
Houston and Great Northern
Railroad.

(Signed) C. O. Noble
Engineer.

I certify to the foregoing being a
correct copy of the record in
the Secretary's office of T. & G. N. R. Co.

R. A. Hayes

Vice President &
Chief Engineer

Dalveston, Texas

March 17, 1877

COUNTER 64325

Filed March 23/77
L. J. Powell

COUNTER 64326

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Office of the
Houston and Great Northern R.R. Co.
Houston, Tex. May 15th 1875.

I hereby certify that the following is a correct description of the line and curves of the Houston and Great Northern Railroad from Troupe in Smith County, the point of junction with The International Railroad, to Nicola in Wood County the point of junction with Texas and Pacific Railway, as located, completed, and being constructed and as shown by map showing line's profile and grades, filed herewith.

The Right of Way taken or obtained is One Hundred and Fifty (150) feet in width. The lands for use of Stations so far as determined are indicated on the map.

Beginning 52 feet from the International Railroads, measuring at right angles and on the W. side of the same from a point 60 feet northwardly from the N. End of the Depot Platform: thence following a tangent

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line N. 7° 55' E. 920 feet; thence follow-
ing a line curving to the left with a
radius of 1469 feet, for the distance
of 680 feet; thence following a second
curve to left with a radius of 1433
feet for the distance of 1135 feet;
thence following a tangent line N. 64°
05' W. 665 feet; thence following a line
curving to the right with a radius of
5730 feet, for a distance of 800 feet;
thence following a tangent line N. 56°
05' W. 1400 feet; thence following a line
curving to the left with a radius of
1910 feet, for a distance of 800 feet;
thence following a tangent line N. 80°
05' W. 1710 feet; thence following a line
curving to the right with a radius of
3820 feet, for a distance of 1190 feet;
thence following a second curve to
the right with a radius of 2865 feet,
for a distance of 525 feet; thence
following a tangent line N. 51° 45' W.
1220 feet; thence following a line
curving to the left with a radius of
2865 feet, for a distance of 905 feet;
thence following a tangent line N. 69°
51' W. 8150 feet; thence following a
curve to the right with the radius of
5730 feet, for a distance of 800 feet;

thence following a tangent line N. 61.° 51' W. 3855 feet; thence following a line curving to the left with a radius of 17,189 feet, for a distance of 645 feet; thence following a tangent line N. 64.° W. 2220 feet; thence following a line curving to the right with a radius of 2865 feet, for a distance of 815 feet; thence following a tangent line N. 47.° 42' W. 1315 feet; thence following a line curving to the right with a radius of 1433 feet, for a distance of 700 feet; thence following a tangent line N. 19.° 42' W. 850 feet; thence following a line curving to the left with a radius of 8594 feet, for a distance of 900 feet; thence following a second line curving to the left with a radius of 1637 feet, for a distance of 1060 feet; thence following a tangent line N. 62.° 48' W. 5872 feet; thence following a line curving to the right with a radius of 2865 feet, for a distance of 1310 feet; thence following a tangent line N. 36.° 36' W. 3834 feet; thence following a line curving to the left with a radius of 2865 feet, for a distance of 700 feet;

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thence following a tangent line N. 50°
36' W. 683 feet; thence following a line
curving to the right with a radius of
1433 feet, for a distance of 442 feet;
thence following a tangent line N. 20°
55' W. 1600 feet; thence following a
line curving to the right with a
radius of 1433 feet, for a distance
of 800 feet; thence following a
tangent line N. 11° 05' W. 550 feet;
thence following a line curving to
the left with a radius of 1910 feet,
for a distance of 1700 feet; thence
following a tangent line N. 39° 55' W.
650 feet; thence following a line
curving to the left with a radius of
1433 feet, for a distance of 600 feet;
thence following a tangent line N.
63° 55' W. 500 feet; thence following
a line curving to the right with a
radius of 2865 feet, for a distance
of 2125 feet; thence following a
tangent line N. 21° 25' W. 2000 feet;
thence following a line curving to
the left with a radius of 11459 feet,
for a distance of 1700 feet; thence
following a tangent line N. 29° 55' W.
970 feet; thence following a line
curving to the right with a radius

of 11.459 feet, for a distance of
2090 feet; thence following a
tangent line N. 19°. 28' W. 5435 feet,
thence following a line curving to
the left with a radius of 3820 ft,
for a distance of 935 feet; thence
following a tangent line N. 33°. 30' W.
2666 feet; thence following a line
curving to the left with a radius
of 2865 feet, for a distance of 976
feet; thence following a tangent
line N. 52°. 59' W. 4000 feet; thence
following a line curving to the
left with a radius of 1433 feet,
for a distance of 1042 feet; thence
following a tangent line S. 85°. 21' W.
883 feet; thence following a line
curving to the right with a radius
of 1433 feet, for a distance of 1520
feet; thence following a tangent
line N. 33°. 51' W. 600 feet; thence
following a line curving to the
left with a radius of 3820 feet,
for a distance of 633 feet; thence
following a tangent line N. 43°. 21' W.
1847 feet; thence following a line
curving to the left with a radius
of 1433 feet, for a distance of 880
feet; thence following a tangent

line N. $78^{\circ} 33' W$. 540 feet; thence following a line curving to the right with a radius of 1910 feet, for a distance of 400 feet; thence following a tangent line N. $57^{\circ} 33' W$. 850 feet; thence following a line curving to the right with a radius of 3820 feet, for a distance of 950 feet; thence following a tangent line S. $43^{\circ} 18' W$. 1550 feet; thence following a line curving to the left with a radius of 2865 feet, for a distance of 812 feet; thence following a tangent line N. $59^{\circ} 36' W$. 1538 feet; thence following a curve to the right with a radius of 1910 feet, for a distance of 900 feet; thence following a second curve to the right with a radius of 2865 feet, for a distance of 1030 feet; thence following a tangent line N. $11^{\circ} 57' W$. 2476 feet; thence following a line curving to the left with a radius of 1910 feet, for a distance of 476 feet; thence following a tangent line N. $35^{\circ} 13' W$. 2721 feet; thence following a curve to the right with a radius of 2292 feet for a distance of 1026 feet; thence following a tangent line N. $9^{\circ} 34' W$. 3218 feet; thence

following a line curving to the left
with a radius of 2865 feet, for a distance
of 925 feet; thence following a tangent
line N 28.° 4' W. 1218 feet; thence follow-
ing a line curving to the left with a
radius of 1910 feet, for a distance of
1640 feet; thence following a tangent
line N. 77.° 7' W. 2340 feet; thence follow-
ing a line curving to the right with a
radius of 1910 feet for a distance of
1660 feet; thence following a tangent
line N. 27.° 19' W. 2522 feet; thence
following a line curving to the left
with a radius of 5730 feet, for a
distance of 1200 feet; thence following
a tangent line N 39.° 19' W 1253 feet;
thence following a line curving to the
left with a radius of 2292 feet, for a
distance 800 feet; thence following a
tangent line N 59.° 19' W. 2008 feet; thence
following a line curving to the right
with a radius of 2865 feet for a distance
of 2050 feet; thence following a tangent
line N. 18.° 19' W 1092 feet; thence following
a line curving to the left with a radius
of 2865 feet, for a distance of 385 feet;
thence following a second line curving
to the left with a radius of 17,189 feet
for a distance of 800 feet; thence

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following a third line curving to the left with a radius of 1910 feet for a distance of 650 feet; thence following a tangent line N. 48° 11' W. 2050 feet; thence following a line curving to the left with a radius of 5730 feet for a distance of 900 feet; thence following a tangent line N. 57° 11' W. 1025 feet; thence following a line curving to the right with a radius of 2865 feet, for a distance of 850 feet; thence following a tangent line N. 40° 11' W. 1095 feet; thence following a line curving to the left with a radius of 1910 feet for a distance of 926 feet; thence following a tangent line N. 67° 56' W. for a distance of 4005 feet; thence following a line curving to the right with a radius of 5730 feet for a distance of 1800 feet; thence following a second curve to the right with a radius of 2865 feet for a distance of 875 feet; thence following a tangent line N. 32° 26' W. 5325 feet; thence following a line curving to the left with a radius of 3820 feet for a distance of 600 feet; thence following a second curve to the left with a radius of 7639 feet for a distance of 1100 feet; thence following a tangent

line N. 49.° 41' W 780 feet; thence following a line curving to the right with a radius of 1322 feet for a distance of 920 feet; thence following a tangent line N. 9.° 49' W 300 feet; thence following a line curving to the left with a radius of 1433 feet for a distance of 800 feet; thence following a tangent N. 41.° 49' W. 620 feet; thence following a line curving to the right with a radius of 1433 feet for a distance of 825 feet; thence following a tangent line N. 8.° 49' W 1695 feet; thence following a line curving to the left with a radius of 1433 feet for a distance of 1210 feet; thence following a tangent line N. 57.° 13' W. 1885 feet; thence following a line curving to the right with a radius of 1433 feet for a distance of 1055 feet; thence following a tangent line N. 15.° 01' W 1760 feet; thence following a line curving to the left with a radius of 1910 feet for a distance of 1520 feet; thence following a tangent line N. 00.° 37' W 2543 feet; thence following a line curving to the right with a radius of 1433 feet for a distance of 1063 feet; thence following a tangent line N. 18.° 04' W 2454 feet

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thence following a line curving to the left with a radius of 2865 feet for a distance of 1140 feet; thence following a tangent line $N 40^{\circ} 55' W$ 900 feet; thence following a line curving to the right with a radius of 2865 feet for a distance of 750 feet; thence following a tangent line $N 25^{\circ} 55' W$ 380 feet; thence following a line curving to the left with a radius of 1910 feet for a distance of 820 feet; thence following a tangent line $N 50^{\circ} 31' W$ 580 feet; thence following a line curving to the right with a radius of 2292 feet for a distance of 1255 feet; thence following a tangent line $N 19^{\circ} 8' W$ 4365 feet; thence following a line curving to the left with a radius of 11459 feet for a distance of 1000 feet; thence following a tangent line $N 24^{\circ} 8' W$ 1905 feet; thence following a line curving to the right with a radius of 5730 feet for a distance of 950 feet; thence following a tangent line $N 14^{\circ} 38' W$ 310 feet; thence following a line curving to the left with a radius of 2865 feet for a distance of 1107 feet

thence following a tangent line
N 36° 46' W. 3152 feet; thence follow-
ing a line curving to the right with
a radius of 1433 feet for a distance
of 1170 feet; thence following a tang-
ent line N 10° 2' E 1495 feet; thence
following a line curving to the left
with a radius of 1910 feet for a dist-
ance of 1460 feet; thence following a
tangent line N. 33° 46' W 1940 feet
thence following a line curving to
the left with a radius of 2292 feet
for a distance of 1100 feet; thence
following a tangent line N. 6° 16' W
1760 feet; thence following curve to
the right with a radius of 1433 feet
for a distance of 1125 feet; thence
following a tangent line N. 16° 16' W
841 feet; thence following a line
curving to the left with a radius of
1910 feet for a distance of 1149 ft;
thence following a tangent line N. 58°
44' W. 5135 feet; thence following a
line curving to the right with a radius
of 2865 feet for a distance of 1165 ft;
thence following a tangent line N 27°
26' W. 5600 feet; thence following a
line curving to the left with a radius
of 5730 feet for a distance of 585 ft

