STREETS IN COTTONWOOD VILLAGE THIRD ADDITION

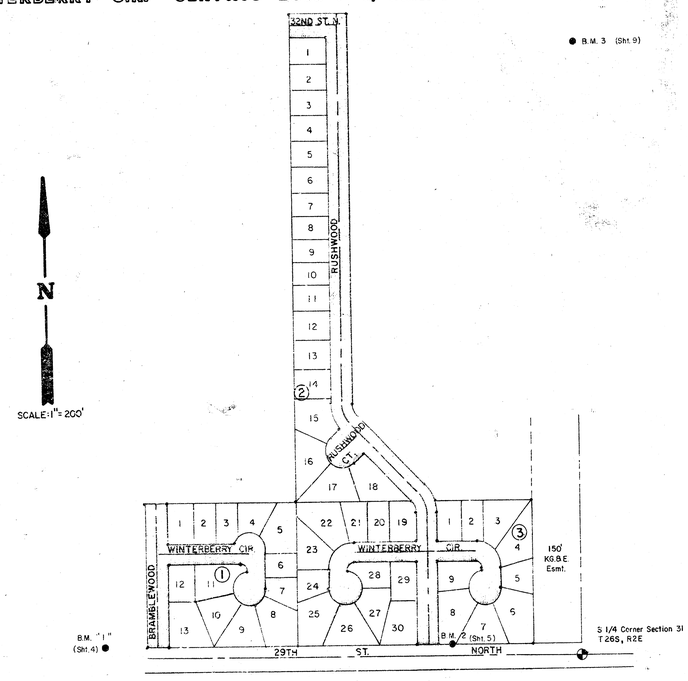
PROJECT NO.

472-76-245-80818-000-000-001

CITY OF WICHITA, KANSAS

DEAN SELLERS, ACTING CITY ENGINEER

BRAMBLEWOOD FROM N. L. OF 29TH ST. N. TO N. L. OF LOT 1, BLK. 1
RUSHWOOD FROM N. L. 29TH ST. N. TO S. L. OF 32ND ST. N.
RUSHWOOD CT. FROM W. L. OF RUSHWOOD TO W. L. OF RUSHWOOD
32ND ST. N. FROM W. L. OF LOT 1, BLK. 2 TO E. L. OF RUSHWOOD
WINTERBERRY CIR. - SERVING LOTS 1 - 12, BLK. 1
WINTERBERRY CIR. - SERVING LOTS 19 - 29, BLK. 2
WINTERBERRY CIR. - SERVING LOTS 1 - 9, BLK. 3

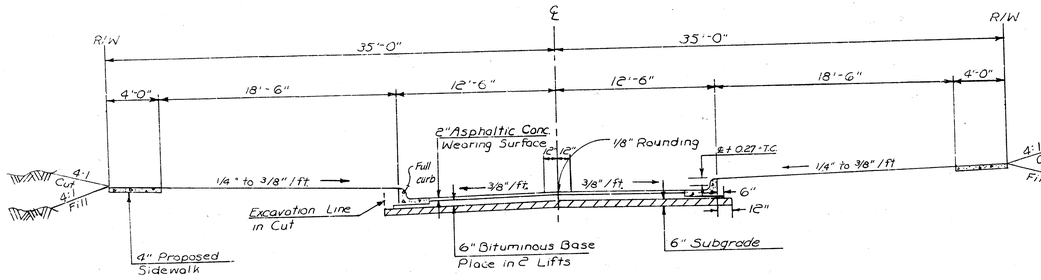


INDEX TO DRAWINGS

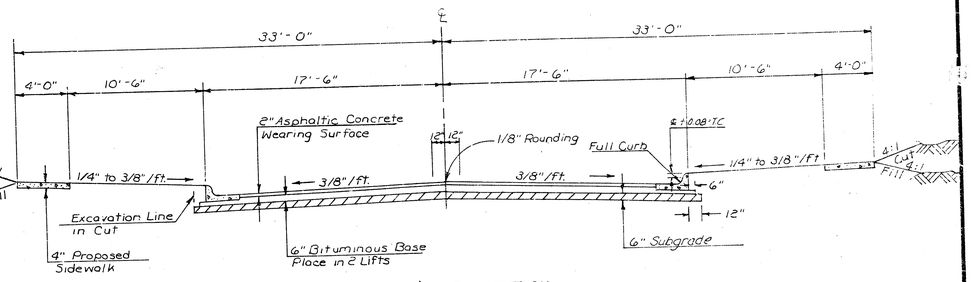
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS & CURB DETAILS
3	VALLEY GUTTER DETAILS
4	BRAMBLEWOOD
5-9	RUSHWOOD
9	RUSHWOOD COURT
10	WINTERBERRY CIRCLE
11	WINTERBERRY CIRCLE
12	WINTERBERRY CIRCLE
13	32ND STREET
14	CURVE LAYOUT & STAKING INFORMATION
15-22	CROSS SECTIONS

Van Doren - Hazard - Stallings
Architects • Engineers • Planners
Topeka Wichita Minneapolis

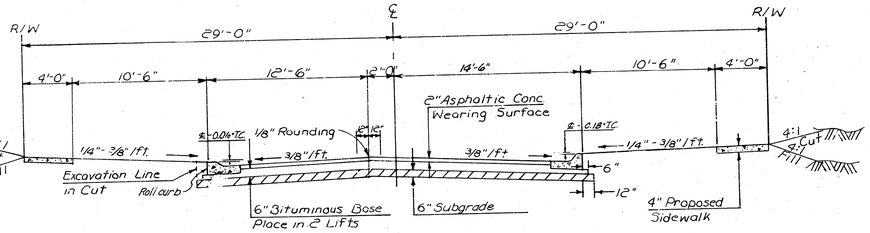
Sheet 1 of 1



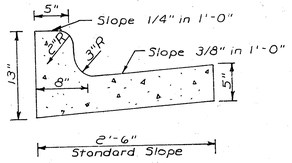
TYPICAL 25' B.B. SECTION
(32nd Street)



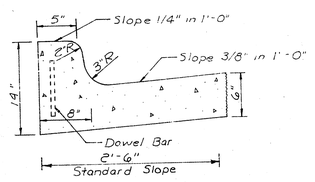
TYPICAL 37' B.B. SECTION
(Bramblewood)



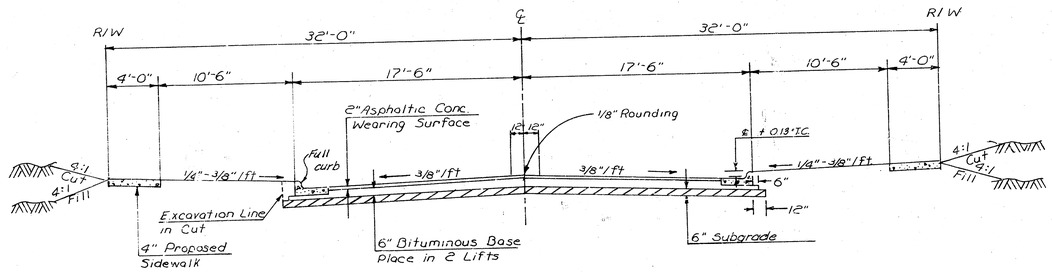
TYPICAL 29' B.B. W/ OFF-SET CROWN
(Winterberry Circle(s))



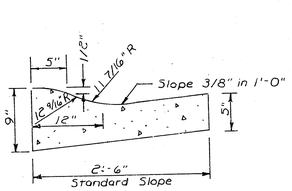
COMBINED CURB & GUTTER



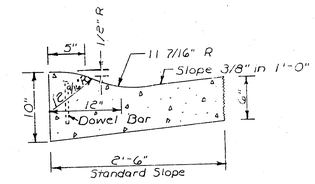
STANDARD INTEGRAL CURB



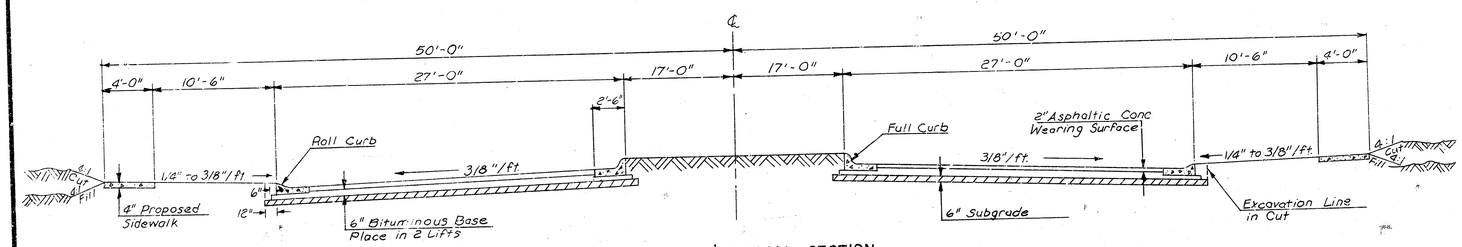
TYPICAL 35' B.B. SECTION
(Rushwood)



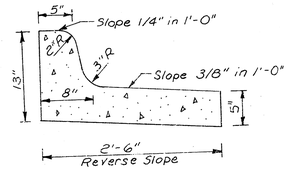
ROLL TYPE CURB & GUTTER



STANDARD INTEGRAL
ROLL TYPE CURB & GUTTER



TYPICAL 71' MEDIAN SECTION
(Rushwood Court)



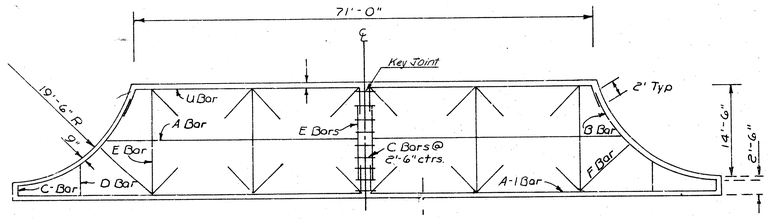
COMBINED CURB & GUTTER

COTTONWOOD VILLAGE 3RD ADD.
472-76-245-80818-000-000-001

TYPICAL SECTIONS & CURB DETAILS

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Sheet 2 of

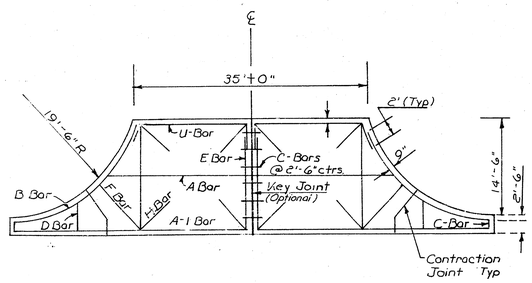


TYPICAL REINFORCING FOR VALLEY GUTTER
(6" CONCRETE SLAB - 2" ASPHALTIC CONCRETE BASE)

GENERAL NOTES

1. A Tack Coat of Emulsified Asphalt (SS - 1H) shall be applied at an approximate rate 0.05 gallons per square yard between lifts of asphaltic materials when ordered by the Engineer. Tack Coat will not be paid for directly and shall be considered as subsidiary to price bid for Asphaltic Pavement.
2. Bituminous Base and Asphaltic Concrete Wearing Surface shall be placed with a laydown machine having automatic controls for crown and grade. Construction Joints in each lift shall be staggered a minimum distance of 1 foot with joints in preceding lifts and such that a joint will be constructed on the pavement centerline in the top lift.
3. The A.C. Pavement between combined curb and gutter shall be paid as square yards 8" A.C. Pavement (6" Bituminous Base). The Bituminous Base under the combined curb and gutter shall be paid as square yards 3" Bituminous Base.
4. Sidewalks indicated on the typical section are for location on that section. SIDEWALKS SHALL NOT BE CONSTRUCTED ON THIS PROJECT.
5. Transition Curb shall be paid as Roll-Type Combination Curb and Gutter.

   Sidewalk grades at right of ways are 0.3' above top of curb.
6. No Driveways are to be constructed as a part of this contract without authorization from Construction Chief Engineer, Wichita, Kansas.
7. The type of subgrade treatment shall be determined by the Field Engineer. Subgrade treatment may consist of lime treatment, cement treatment, subgrade modification or any combination of these.



TYPICAL REINFORCING FOR VALLEY GUTTER
(6" CONCRETE SLAB - 2" ASPHALTIC CONCRETE BASE)

BILL OF MATERIAL

MARK	SIZE	W=35'-0" NO.	W=35'-0" LENGTH	W=71'-0" NO.	W=71'-0" LENGTH	SHAPE
A	6	2	62'-6"	2	90'-0"	—
A-1	6	4	20'-0"	2	54'-0"	⌐
B	6	2	24'-0"	2	84'-0"	⌒
C	4	8	2'-0"	11	2'-0"	—
D	6	2	5'-0"	2	5'-0"	—
E	6	4	16'-0"	6	16'-6"	—
F	6	2	10'-0"	2	11'-0"	—
H	6	8	6'-0"	16	6'-0"	—
U	6	2	24'-0"	2	44'-0"	⌐
# 6 TOTAL			369'-0" Lin. Ft.		551'-0" Lin. Ft.	
# 4 TOTAL			16' Lin. Ft.		22' Lin. Ft.	

COTTONWOOD VILLAGE 3RD ADD.
472-76-245-80818-000-000-001

VALLEY GUTTER DETAILS

Van Doren - Hazard - Stallings
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Sheet 3 of 7

22x36

COTTONWOOD VILLAGE 3RD ADD.
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BM 1 Chiseled "o" SW cor N Headwall 2.0' culvert
E of Woodlawn on 29th Street North
Elev = 175.28

Scale:
Horiz: 1"=20'
Vert: 1"=5'

UNPLATTED

Sta 0+30.00-Bramblewood
Begin Construction

Sta 0+00-Bramblewood

Sta 3+03.00-Bramblewood =
Sta 0+00-Winterberry Cir.

Sta 4+53.00-Bramblewood
Connect to Existing Pvmt.

BRAMBLEWOOD

463.00'

8'W

Full curb

8'SS

4"G

Const 4" Gravel Makup

Remove 20 L.F. Hedge

134.00'

110.00'

121.00'

15' Utility Esmt.

30' Utility Esmt.

Hedge

29TH ST. NORTH
South line Section 8, T6S, R5E

WINTERBERRY CIRCLE

90°08'31"

30' R=148.11
TC=174.88

TC=174.87
TC=174.95

Construct 8" Valley Gutter
6" conc. w/ 2" Asphaltic
conc. base

Cottonwood Village
Second Addition
Lot 27 Blk 4

Lot 13

Lot 12

Block 1

Lot 1

Sta 0+00 Bramblewood =
℄ 29th St. North

Sta 3+03.00 ℄ Winterberry

Sta 4+53.00-Bramblewood
Connect to Existing Pavement

+18 PVI Elev=174.61

+75 PVI Elev=175.04

-0.32% Lt & Rt

60' V.C.

Existing Ground

+0.36% Lt & Rt

50' V.C.

-0.32% Lt & Rt

℄ Profile

T.C. Profile

TC. Elev
℄ Elev.
Lt & Rt.

| | | |

COTTONWOOD VILLAGE 3RD ADD.
472-76-245-80818-000-000-001

Block 2

Scale:
Horiz.-1"=20'
Vert.-1"=5'

Lot 30 | Lot 29 | Lot 19

Sta 0+30.00 - Bramblewood Begin Construction

Sta 0+00 Rushwood Begining of Project

Remove 4 L.F. Hedge and fence

Existing Gravel Roadway

29TH ST. NORTH

RUSHWOOD

CIRCLE

WINTERBERRY

Full Curb

Sta 3+03.00 Rushwood
Sta 13+75.74 Winterberry

Sta 4+33.01 P.I. Bk.
Sta 4+49.47 P.I. Ah.

Lot 8 | Lot 9 | Lot 1

15' Utility Esmt.

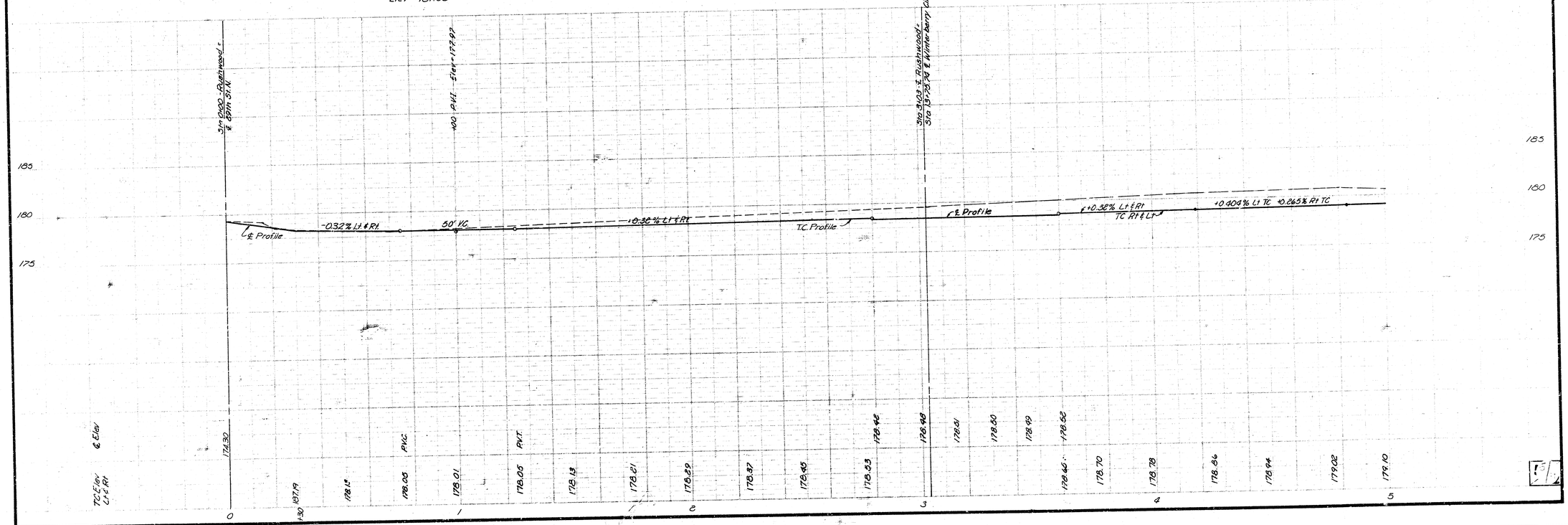
30' Utility Esmt.

Hedge

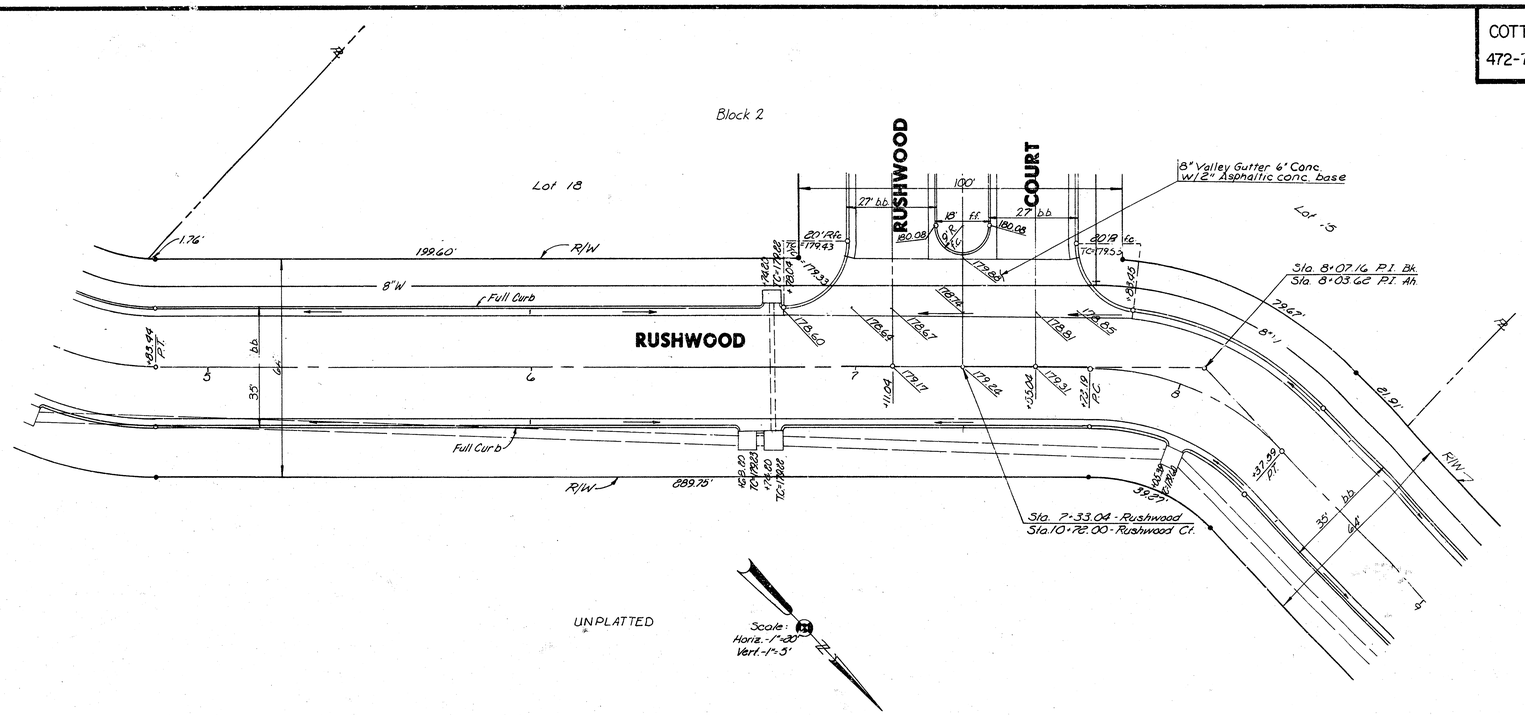
Southline Sec 31, T2N, R2E

Block 3

BM 2 Chiseled "a" SW cor N Headwall 3rd culvert
E of Woodlawn on 29th Street North
Elev = 181.08

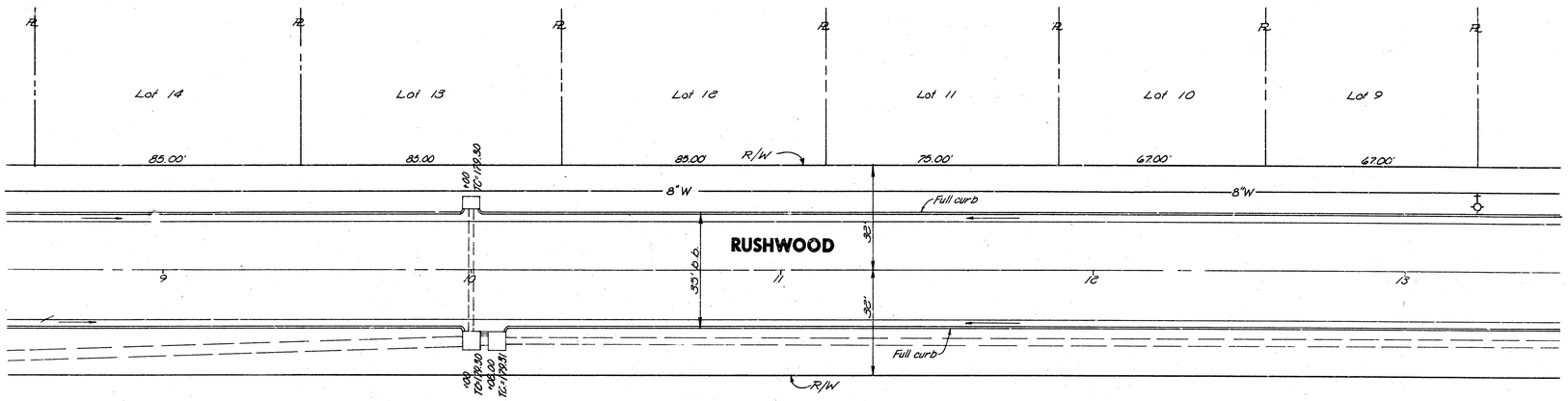


COTTONWOOD VILLAGE 3RD ADD.
472-76-245-80818-000-000-001



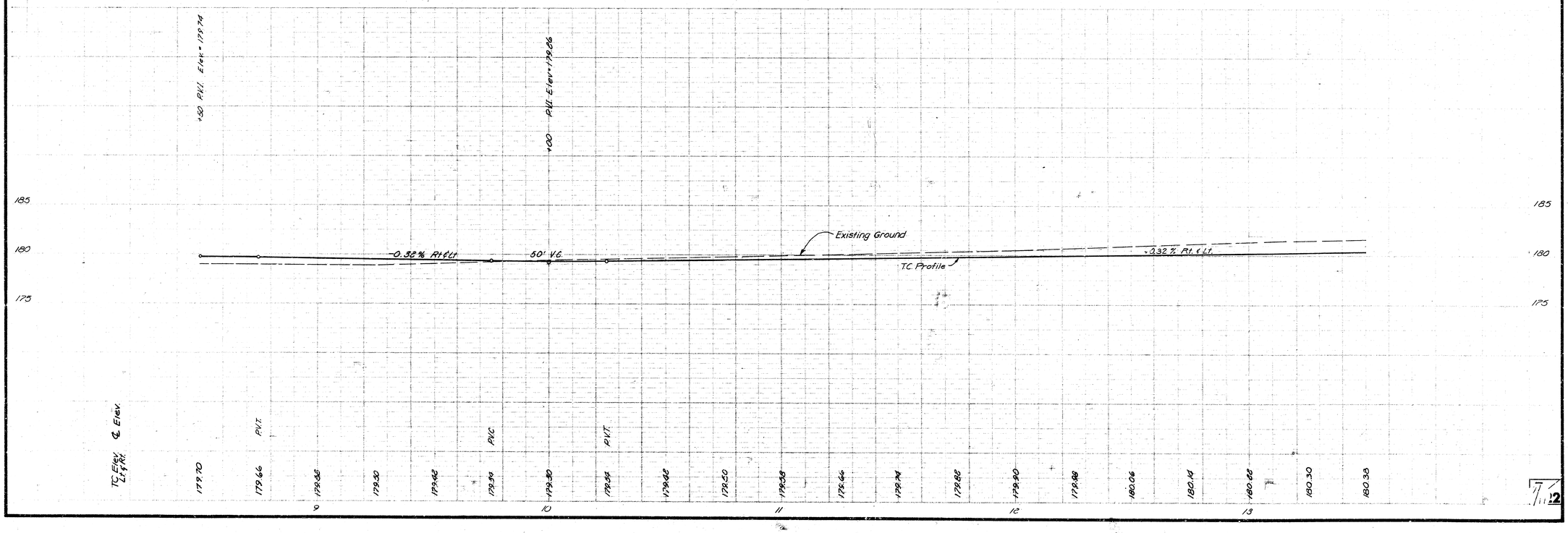
COTTONWOOD VILLAGE 3RD ADD.
472-76-245-80818-000-000-001

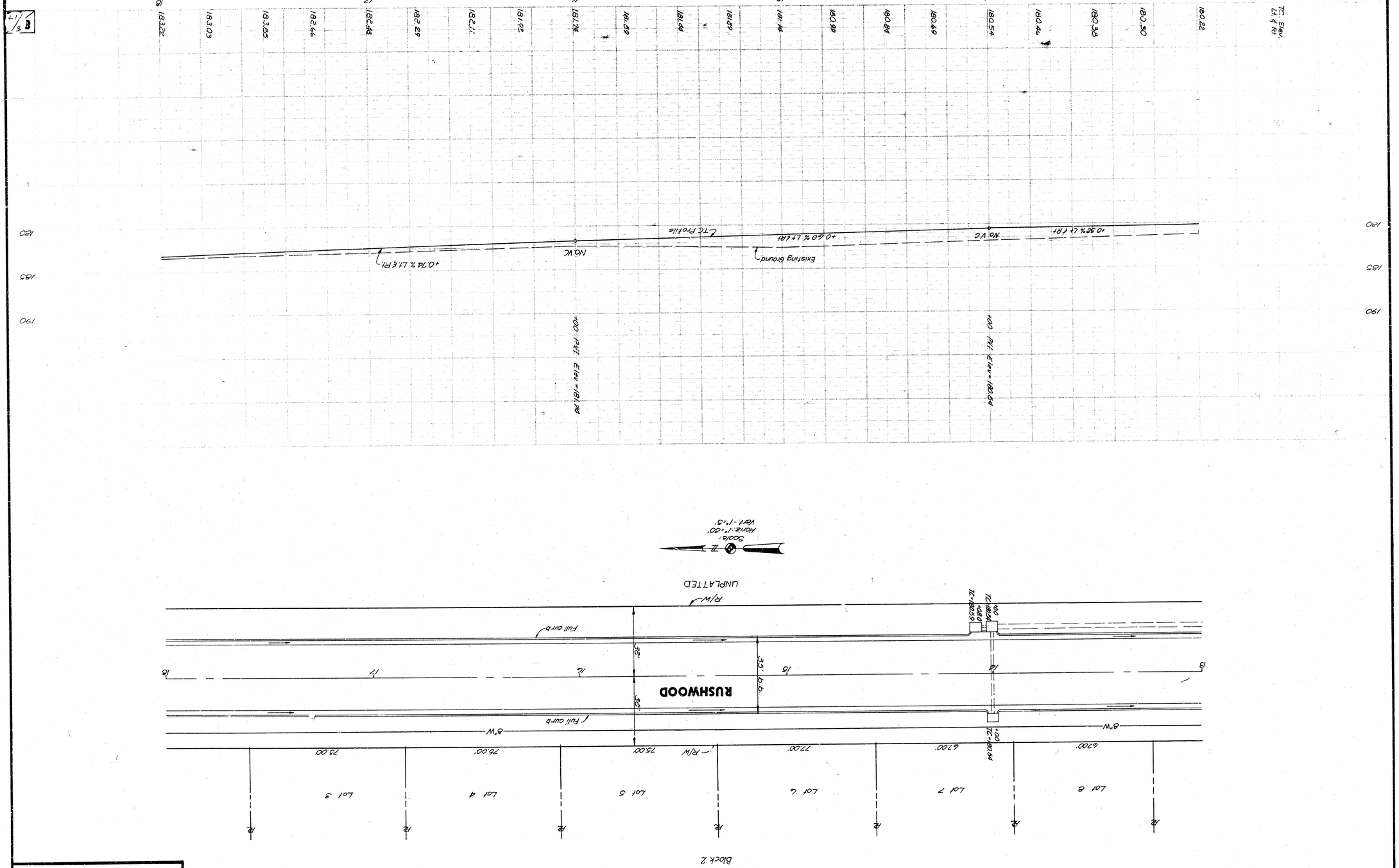
Block 2



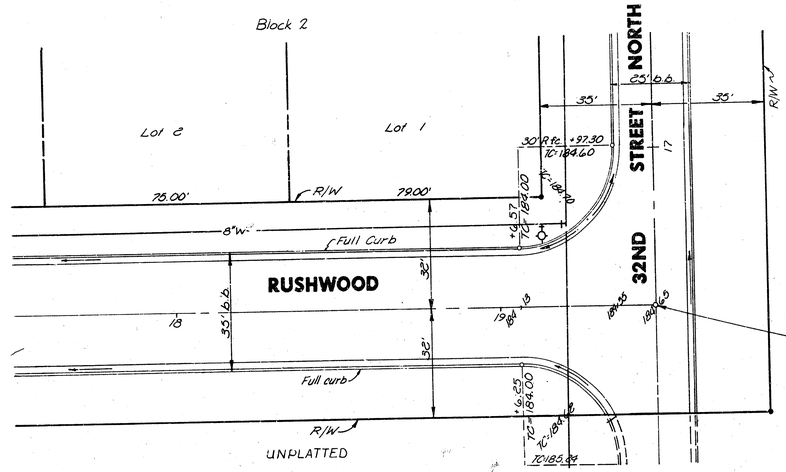
UNPLATTED

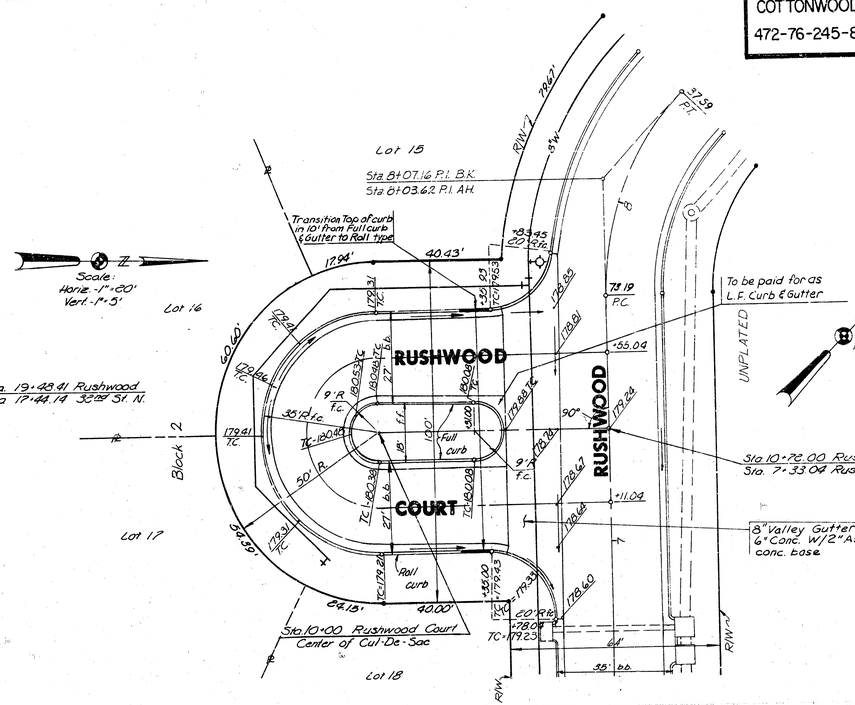
Scale:
Horiz. - 1" = 20'
Vert. - 1" = 5'



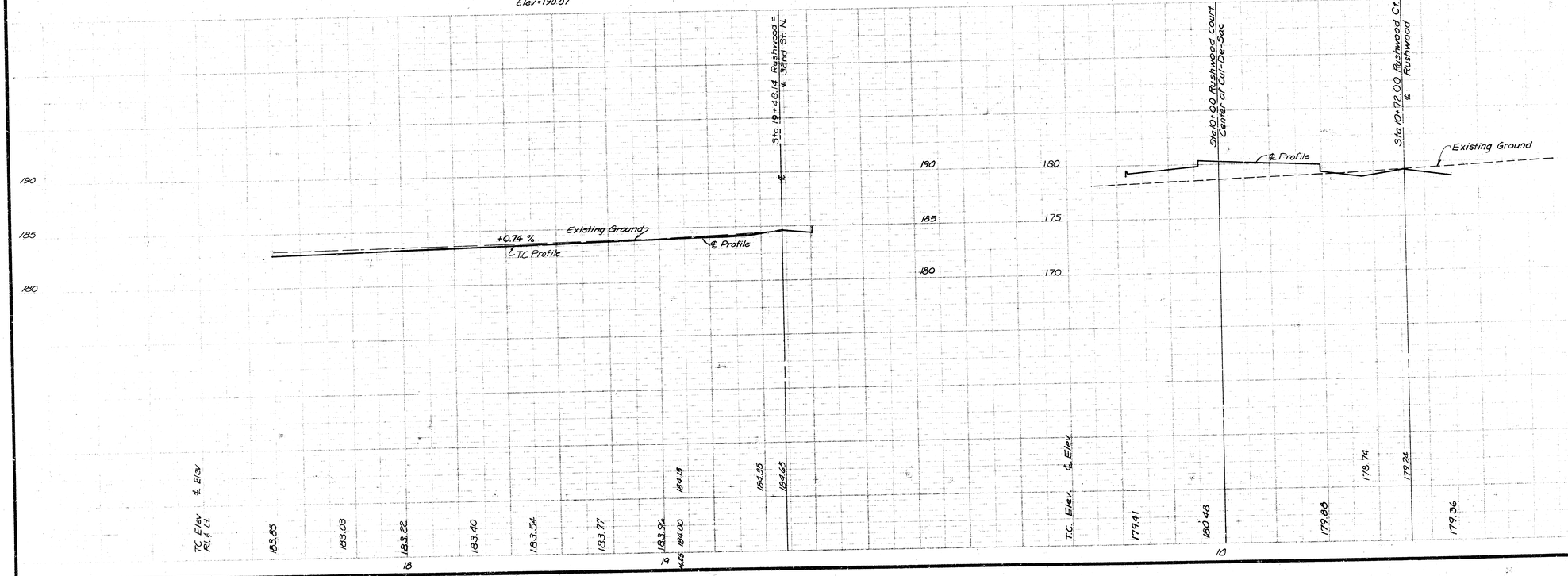

Sheet 8 of 8
TC: Elev. Lt & Rt
180.22
180.30
180.38
180.46
180.54
180.62
180.69
180.84
180.89
181.09
181.29
181.49
181.59
181.74
181.92
182.17
182.29
182.48
182.66
183.05
183.03
183.22
13
14
15
16
17
18
Existing Ground
TC Profile
+0.90% Lt & Rt
+0.40% Lt & Rt
+0.74% Lt & Rt
No VC
No VC
100' R/W Elev = 180.54
100' R/W Elev = 181.74
UNPLATTED
R/W
Full curb
RUSHWOOD
33'
66'
Full curb
8"W
8"W
R/W
Lot 3
Lot 4
Lot 5
Lot 6
Lot 7
Lot 8
75.00'
76.00'
75.00'
77.00'
67.00'
67.00'
Block 2
Scale:
Horiz.-1"=20'
Vert.-1"=5'
COTTONWOOD VILLAGE 3RD ADD.
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COTTONWOOD VILLAGE 3RD ADD.
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B.M. 3 - Spk. Stp. Efc. Epp.
Fourth pp N. of 29th St.
and 700' E. of E RIW, Rushwood
Elev = 190.07



COTTONWOOD VILLAGE 3RD ADD.
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WINTERBERRY CIRCLE
BRAMBLEWOOD
Block 1
Lot 1
Lot 2
Lot 3
Lot 4
Lot 5
Lot 6
Lot 7
Lot 8
Lot 9
Lot 10
Lot 11
Lot 13
80.00'
67.00'
60.35'
69.44'
140.06'
8"W
Roll Curb
3" @ crown
Half Crown
Full Crown
R/W
30' R.Fc.
35' R.Fc.
50' R
21.00'
14.5'
R=49.00'
T=38.86'
90°09'31"
R=41.70'
Δ=25°30'50"
T=9.44'
Transition top of curb in 1'-0" from Full curb & gutter to Roll type
8" Valley Gutter, 6" conc. w/ 6" Asphaltic conc. base
Sta 0+00 Winterberry Circle = Sta 3+03.00 Bramblewood
Sta 3+92.55 Center of Cul-de-Sac
110.00'
81.00'
45° Typ.
15' Utility Esmt.
39.05'
42.34'
19.48'
Scale:
Horiz: 1" = 20'
Vert: 1" = 5'

Sta 0+00 Winterberry Circle & Bramblewood
+25 PVI Elev. = 175.19
+25 PVI Elev. = 175
CUL-DE-SAC Sta. 4+82.65
Existing Ground
+0.86%
℄ Grade
℄ Profile

	0	1	2	3
TC Elev. Rt.	174.73	174.69 / 174.65 / 174.73 / 174.61 / 174.89	174.97 / 175.05	175.13 / 175.25 / 175.39 / 175.27 / 175.41 / 175.55 / 175.67
℄	174.18	174. / 174.77 / 174.65 / 174.93 / 175.01	175.09 / 175.17	175.25 / 175.39 / 175.53 / 175.67 / 175.81 / 175.89 / 175.97
TC Elev. Lt.		174.95 / 174.71 / 174.79 / 174.87 / 174.95	175.03 / 175.11	175.19 / 175.03

180
175
170

COTTONWOOD VILLAGE 3RD ADD.
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WINTERBERRY CIRCLE

RUSHWOOD

Block 2

Block 3

Lot 22

Lot 21

Lot 20
67.00'

Lot 19
80.00'

Lot 1

Lot 2

Lot 23

Lot 24

Lot 25

Lot 26

Lot 27

Lot 28

Lot 29

Lot 30

Lot 9

Lot 8

Roll curb

12' @ crown

Transition Top of Curb in 10' From Full Curb & Gutter to Roll Type

Sta 3+59.05 Winterberry Circle ℄ R/W
Sta 3+03.00 Rushwood

Sta 3+99.87 Winterberry Circle
Center Cul-de-sac

R=41.70'
Δ=265°30'50"
T=2.94'

20' Utility Esmt.

15' Utility Esmt.

35' bb.

64'

50' R

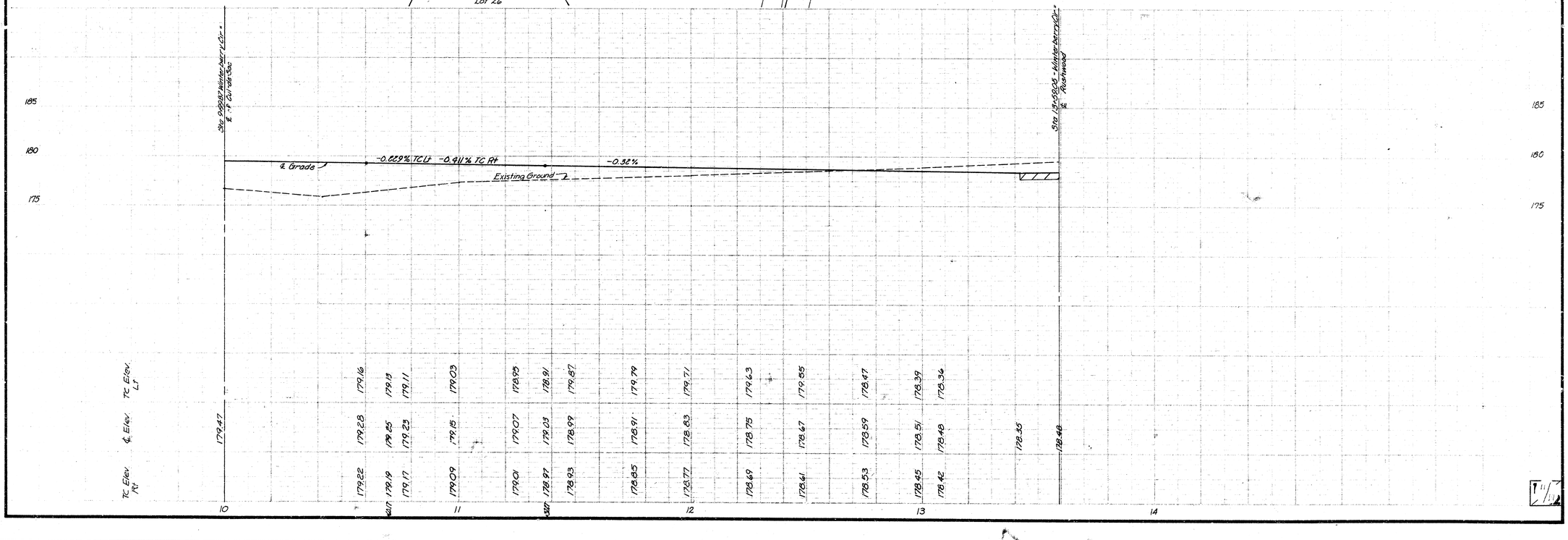
80.91'

50.16'

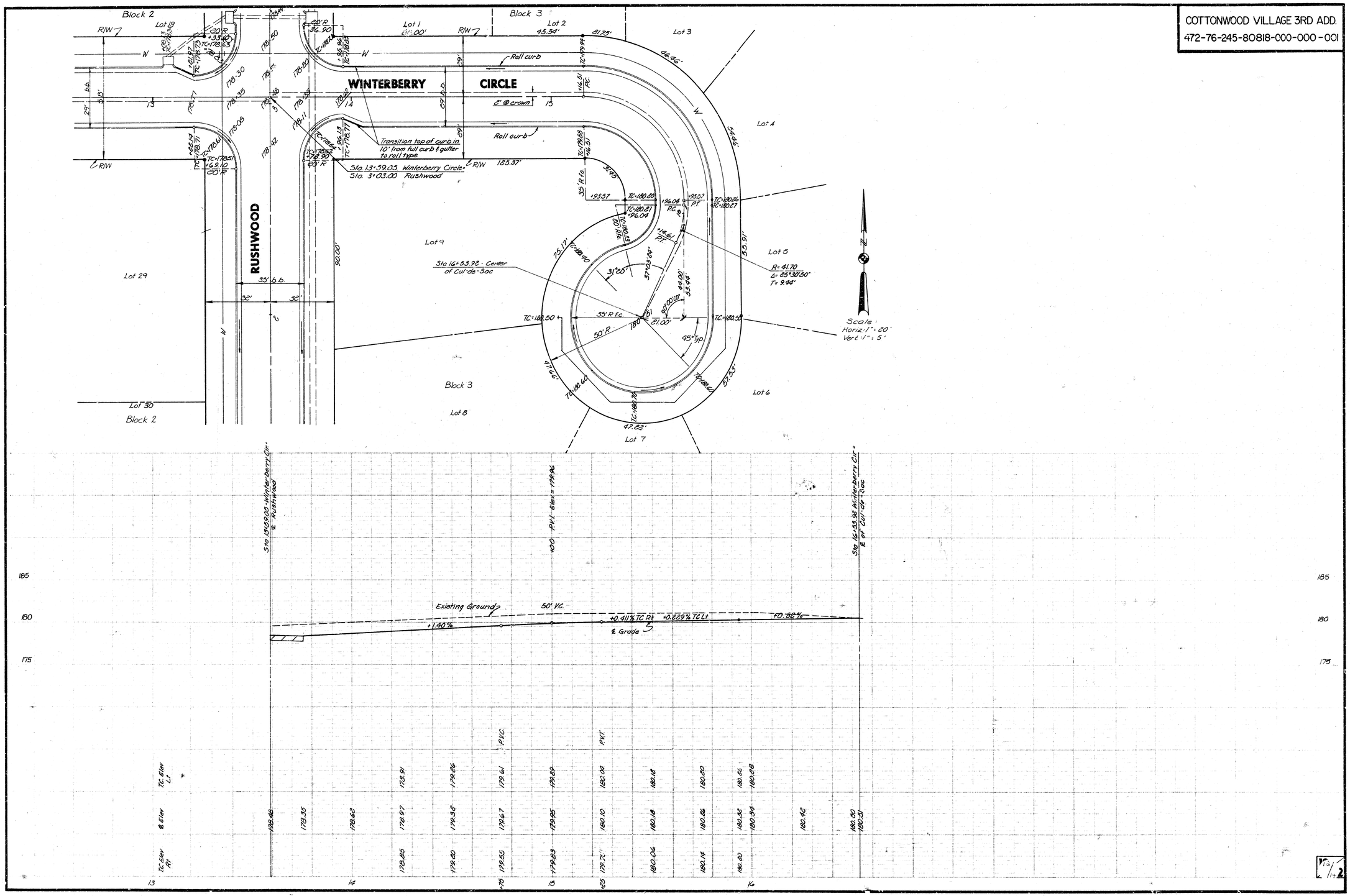
109.86'

80.00'

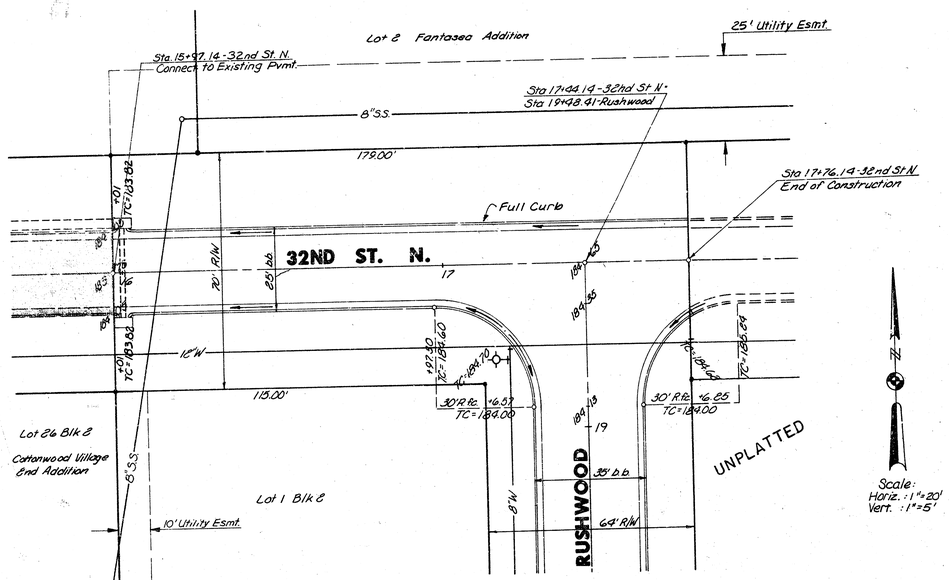
Scale:
Horiz. 1" = 20'
Vert. 1" = 5'

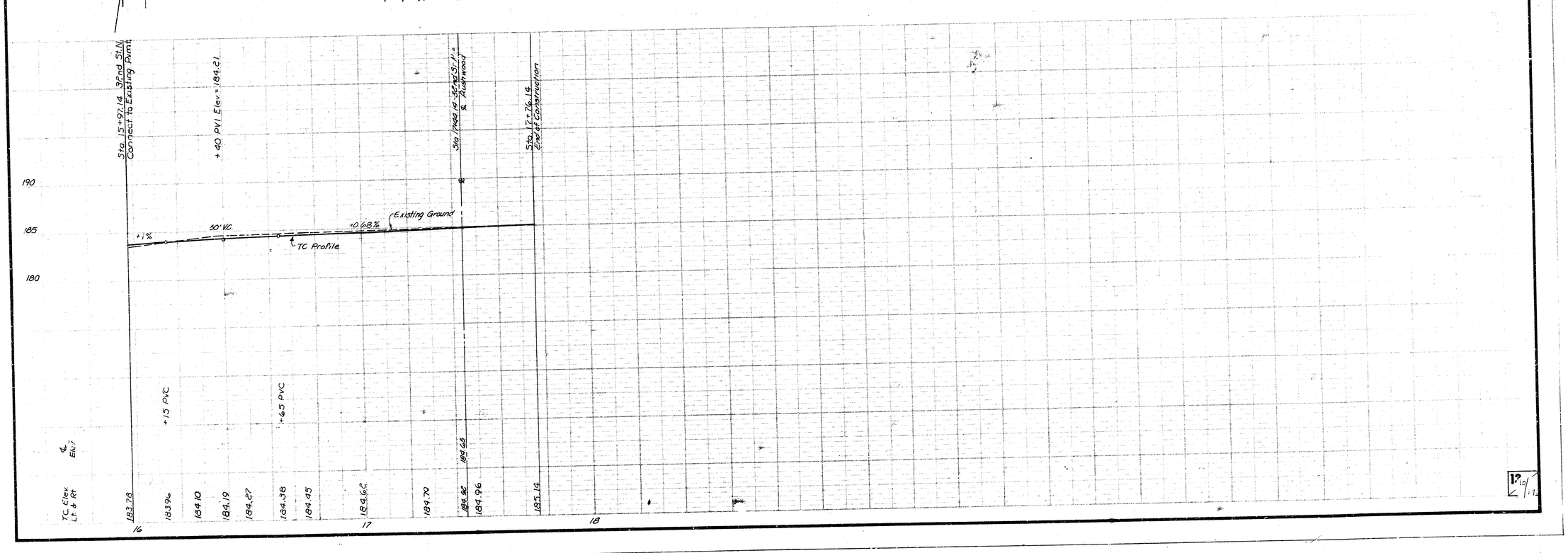


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COTTONWOOD VILLAGE 3RD ADD.
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Location: RUSHWOOD
See Page 5

CURVE DATA BASED ON 82.00'R. (CL)

$\Delta/2$ - 22° 30' 00"

DEFLECTION IN MIN./FT. = 20.9628

CL Station	CL Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
4 + 19.04					
4 + 25	5.96	4.14	7.78	2° 04' 56"	2° 04' 56"
4 + 50	25.00	17.31	32.50	8° 44' 04"	10° 49' 00"
4 + 75	25.00	17.31	32.50	8° 44' 04"	19° 33' 04"
4 + 83.44	8.44	5.86	11.01	2° 56' 56"	22° 30' 00"

Location: RUSHWOOD
See Page 6

CURVE DATA BASED ON 82.00'R. (CL)

$\Delta/2$ = 22° 30' 00"

DEFLECTION IN MIN./FT. = 20.96273

CL Station	CL Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
7 + 73.19					
7 + 83.45	10.26	13.38	7.13	3° 35' 05"	3° 35' 05"
8 + 00	16.55	21.56	11.49	5° 46' 56"	9° 22' 01"
8 + 25	25.00	32.50	17.31	8° 44' 04"	18° 06' 05"
8 + 37.59	12.59	16.41	8.47	4° 23' 55"	22° 30' 00"

Location: WINTERBERRY CIRCLE
See Page 11

CURVE DATA BASED ON 49.0' R (CL)

$\Delta/2$ = 45° 04' 46"

DEFLECTION IN MIN./ FT. = 35.08117

CL Station	CL Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
10 + 60.17					
10 + 75	14.83	21.41	8.14	8° 40' 15"	8° 40' 15"
11 + 00	25.00	35.84	13.63	14° 37' 02"	23° 17' 17"
11 + 25	25.00	35.84	13.63	14° 37' 02"	37° 54' 19"
11 + 37.27	12.27	17.73	6.74	7° 10' 27"	45° 04' 46"

Location: WINTERBERRY CIRCLE
See Page 12

CURVE DATA BASED ON 49.0' R. (CL)

$\Delta/2$ = 45° 03' 10"

DEFLECTION IN MIN./FT. = 35.0/873

CL Station	CL Arc	Chord Length 8' Off-set Left F.C.	Chord Length 8' Off-set Right F.C.	Deflection	Total Deflection
15 + 16.51					
15 + 25	8.49	12.29	4.67	4° 57' 49"	4° 57' 49"
15 + 50	25.00	35.83	13.63	14° 36' 58"	19° 34' 47"
15 + 75	25.00	35.83	13.63	14° 36' 58"	34° 11' 45"
15 + 95.37	18.57	26.75	10.17	10° 51' 25"	45° 03' 10"

COTTONWOOD VILLAGE 3RD ADD.
472-76-245-80818-000-000-001

CURVE LAYOUT &
STAKING INFORMATION

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