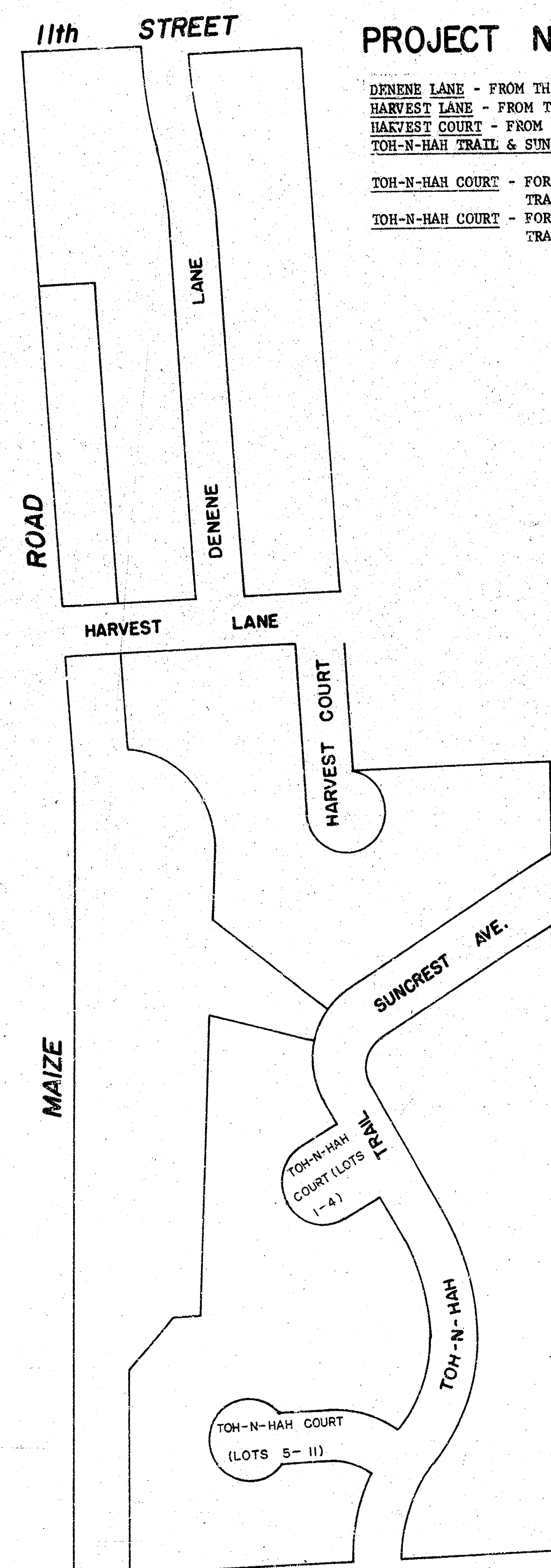
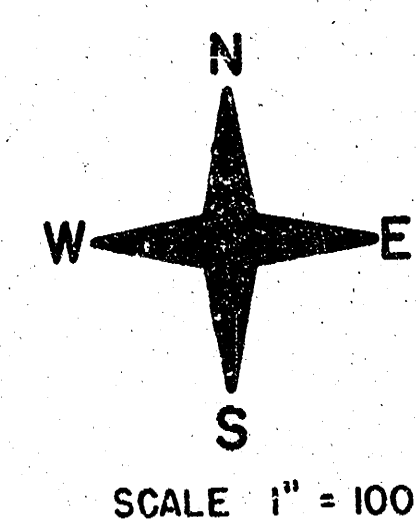




STREETS IN WESTLINK LAKES ESTATE ADDITION

PROJECT NUMBER: 472-76-245-80779-000-000-001

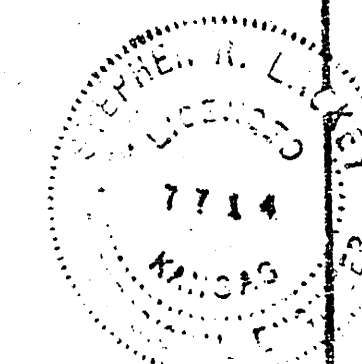
DENENE LANE - FROM THE N.L. HARVEST LANE TO THE S.L. 11TH STREET
 HARVEST LANE - FROM THE E.L. MAIZE ROAD TO THE E.L. LOT 7, BLOCK 1, WESTLINK LAKES ESTATE
 HARVEST COURT - FROM THE S.L. HARVEST LANE TO AND INCLUDING CUL-DE-SAC
 TOH-N-HAH TRAIL & SUNCREST AVENUE - FROM THE S.L. BLOCK 5, WESTLINK LAKES ESTATE TO THE E.L. BLOCK 5, WESTLINK LAKES ESTATE
 TOH-N-HAH COURT - FOR LOTS 1-4, INCLUSIVE, BLOCK 4, WESTLINK LAKES ESTATE, FROM THE W.L. TOH-N-HAH TRAIL TO THE W.L. TOH-N-HAH TRAIL
 TOH-N-HAH COURT - FOR LOTS 5-11, INCLUSIVE, BLOCK 4, WESTLINK LAKES ESTATE, FROM THE W.L. TOH-N-HAH TRAIL TO AND INCLUDING CUL-DE-SAC

GENERAL NOTES:

1. FIELD ENGINEER SHALL TAKE TIES TO ALL IRONS AND THIMBLES WHICH MAY BE DESTROYED AND REPLACE ALL IRONS AND THIMBLES THAT ARE DESTROYED.
2. CONTRACTOR SHALL COORDINATE WORK WITH SANITARY SEWER AND STORM SEWER CONTRACTORS.
3. CONTRACTOR SHALL COORDINATE WORK WITH UTILITY COMPANIES AND OTHER AGENCIES RELATED TO THE PROJECT SITE DEVELOPMENT.
4. TREES TO BE REMOVED ARE MARKED , EXCEPT THAT ANY TREE WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
5. CONTRACTOR SHALL REMOVE CONCRETE SLABS AND FOOTINGS IN STREET RIGHT-OF-WAY AND STOCKPILE THEM AT A LOCATION ON SITE TO BE DETERMINED BY DEVELOPER. CONTACT CHUCK BRODIE: TELEPHONE: 262-0031. REMOVAL OF CONCRETE SLABS AND FOOTINGS SHALL BE PAID FOR AS S.Y. PAVEMENT REMOVED.
6. CONTRACTOR SHALL CONTACT CHUCK BRODIE FOR LOCATION ON SITE OF SPOIL STOCKPILED FROM OTHER PROJECTS, IF ANY, AND USE SUCH SPOIL IN FILL SECTIONS OF THIS PROJECT.
7. CONTRACTOR SHALL CONTACT CHUCK BRODIE REGARDING ITEMS MARKED "TO BE REMOVED BY 'OTHERS'", IF NECESSARY.

CONTENTS

COVER SHEET	P. 1
DENENE LN. & COMPLETE TITLE	Pp. 2,3
HARVEST LN.	P. 4
HARVEST CT.	P. 5
TOH-N-HAH TRAIL & SUNCREST AVE.	Pp. 6,7
TOH-N-HAH CT. (LOTS 1-4)	P. 8
TOH-N-HAH CT. (LOTS 5-11)	P. 9
CROSS-SECTIONS	Pp. 10-19
TYPICALS	Pp. 20, 21



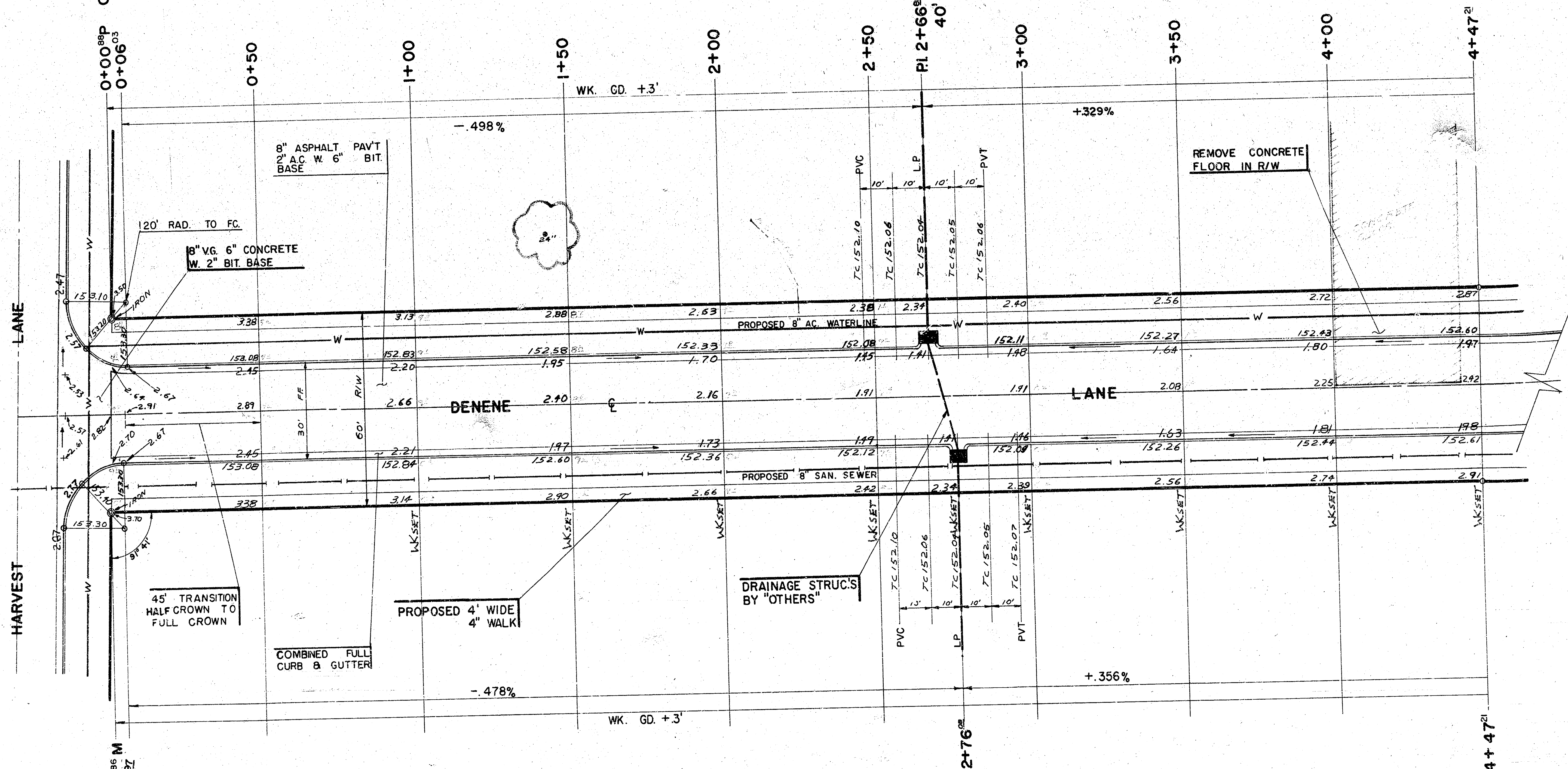
BM EL 154.14 "d" OUT E-HUB GUARD R.C. BOX ON MAIZE RD. BETWEEN 11TH STREET & HARVEST LN.
 P IS C OF DENENE LN.

SUB-GRADE
 TYPE OF SUB-GRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUB-GRADE TREATMENT MAY CONSIST OF LIME TREATMENT, CEMENT TREATMENT, SUB-GRADE MODIFICATION, OR ANY COMBINATION OF THESE.

CAUTION
UNDERGROUND UTILITIES
 Please check with K G & E or Southwestern Bell Telephone Co. for location

SCALE 1" = 20'

NO MORE THAN 1/2 - 20' DRIVES TO BE CONSTRUCTED ON THIS PROJECT.



EARTH WORK:		PROPERTY	CITY
EXCAVATION	3410 C.Y.	188 C.Y.	
+10%	341 C.Y.	19 C.Y.	
TOTAL	3751 C.Y.	207 C.Y.	
COMPACTED FILL	1941 C.Y.	213 C.Y.	
+10%	194 C.Y.	21 C.Y.	
TOTAL	2135 C.Y.	234 C.Y.	
MANIPULATION	9254 S.Y.	1329 S.Y.	

STREETS IN WESTLINK LAKES ESTATE ADDITION

- DENENE LANE - FROM THE N.L. HARVEST LANE TO THE S.L. 11TH STREET
- HARVEST LANE - FROM THE E.L. MAIZE ROAD TO THE E.L. LOT 7, BLOCK 1, WESTLINK LAKES ESTATE
- HARVEST COURT - FROM THE S.L. HARVEST LANE TO AND INCLUDING CUL-DE-SAC
- TOH-N-HAH TRAIL & SUNCREST AVENUE - FROM THE S.L. BLOCK 5, WESTLINK LAKES ESTATE TO THE E.L. BLOCK 5, WESTLINK LAKES ESTATE
- TOH-N-HAH COURT - FOR LOTS 1-4, INCLUSIVE, BLOCK 4, WESTLINK LAKES ESTATE, FROM THE W.L. TOH-N-HAH TRAIL TO THE W.L. TOH-N-HAH TRAIL
- TOH-N-HAH COURT - FOR LOTS 5-11, INCLUSIVE, BLOCK 4, WESTLINK LAKES ESTATE, FROM THE W.L. TOH-N-HAH TRAIL TO AND INCLUDING CUL-DE-SAC

CITY OF WICHITA, KS.

R.W. LINN CITY ENGINEER

PROJECT NUMBER 472-76-245-80779-000-000-001

DATE:

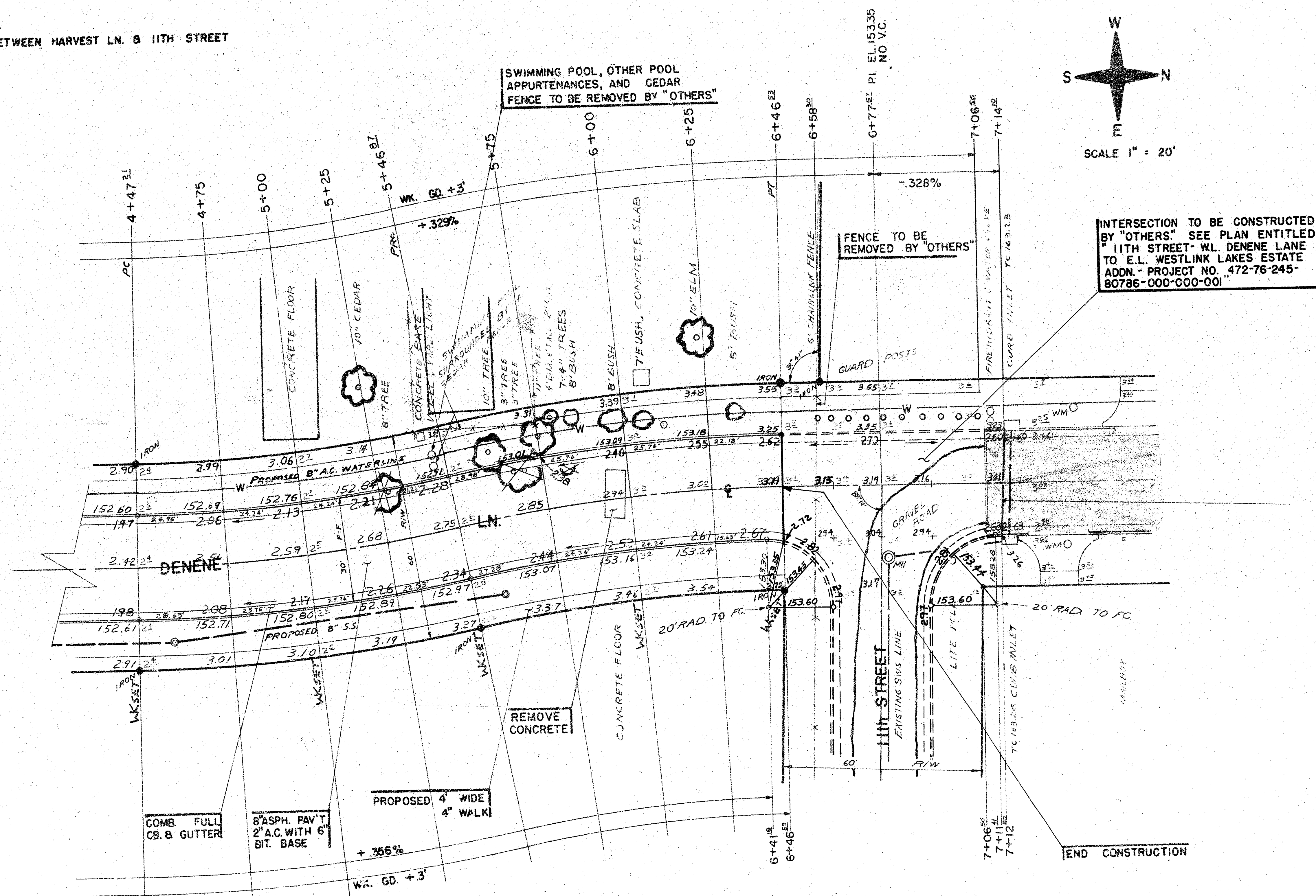
SCALE 1" = 20

$A = 110^{\circ}32'13''$, $B = 41^{\circ}05'$, $T = 50'$, $L = 79.6'$, $LC = 99.49'$

CURVE DATA BASED ON C RAD $\Delta = 3^{\circ}04'30''$

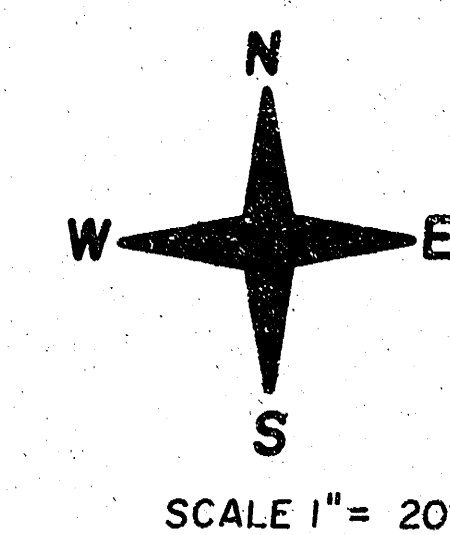
STA.	ARC	CHORD LENGTHS		TOTAL DEFLECTION	TOTAL CORRECTION
		C CHORDS	D CHORDS		
5+44.28					
5+75	28.13	29.43	24.82	$1^{\circ}37'42''$	$1^{\circ}37'42''$
6+00	25	26.18	23.86	$1^{\circ}26'45''$	$3^{\circ}04'31''$
6+25	25	26.18	23.86	$1^{\circ}26'45''$	$3^{\circ}31'20''$
6+44.28	14.18	14.93	12.43	$56'11''$	$5^{\circ}27'31''$
6+46.83	5.35	5.60	5.10	$18'35''$	$5^{\circ}46'06''$

Def't = 3.7128714



DENENE LANE
STREETS IN WESTLINK
LAKES ESTATES ADDN.

B.M. EL. 151.67 RR. SPK. E-FACE PP NE CORNER HARVEST LN. & MAIZE RD. 18' N OF N.L. HARVEST LN.
P IS C HARVEST LN.



INSTALL 60 LF 21x15
CMPA. COST OF INSTALLATION
TO BE INCIDENTAL TO COST
PER LF OF PIPE

CONSTRUCT 5" ASPHALT
HOOKUP, MATCH EXISTING
GRADE ON MAIZE RD.

REMOVE FENCE
POSTS IN R/W
COST TO BE IN-
CIDENTAL TO
PROJECT

BEGIN PAVEMENT
STA. 1+00 ON C

FLARED END SECTIONS
TO BE BID AS LF PIPE

CURB INLETS
BY "OTHERS"

EL. 152.74 P.I. 1+32.3
NO V.C.

P 0+99.12
M 0+99.12
I+32.3 P.I. EL. 152.74
NO V.C.

I+50

2-6x4 1/2 R.C.B.C.
BY "OTHERS"

PROPOSED 4' WALK

2+64.04
P 2+69.19
M 2+69.20

P 3+29.22
M 3+34.22
I+50

WK. GD. +3'

+267%
8" ASPHALT PAVEMENT
2" A.C. w. 6" BIT. BASE

P 4+49.65
M 4+49.60

I+50

CHAINLINK FENCE TO BE
REMOVED BY "OTHERS"

REMOVE EXISTING ASPHALT
BACK TO END EXISTING CURB

END PAVEMENT STA. 4+61.80
MATCH EXISTING PAV'T

SAW JOINT

PROPOSED 4' WIDE
4" WALK

DRAINAGE DITCH &
EARTH BERM BY
"OTHERS"

8" V.G. 6" CONCRETE
WITH 2" A.C. BASE
+299%

3+00

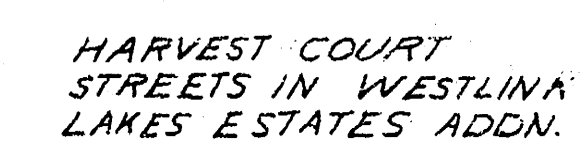
3+86.53
P 3+91.58
M 3+91.40

P 4+51.60
M 4+51.58
I+50

HARVEST LANE
STREETS IN WESTLINK LAKES
& STATES ADDN.

NORTH

SCALE 1" = 20'



B.M. EL. 151.67 RR. SPK. E-FACE PP NE CORNER HARVEST LN. & MAIZE, 18' N. OF N.L. HARVEST LN.
 BASELINE IS Q TOH-N-HAH TRAIL

Δ = 41°46'40" R = 196.35' T = 75' L = 143.29' LC = 140.13'

CURVE DATA BASED ON $\frac{1}{2}$ RAD. Δ = 20°54'20"

STA	ARC	8" V.G.	6" BIT. BASE	8" V.G.	6" BIT. BASE	TOTAL DEFLECTION
2+44.25						0°00'00"
2+50.14	6.08	5.36	6.79	0°53'18"	0°53'13"	
2+64.28	14.46	12.76	16.15	2°04'35"	2°51'48"	
2+75	10.42	9.20	11.64	1°31'12"	4°31'00"	
3+00	25	22.06	27.91	3°38'51"	8°09'51"	
3+25	25	"	"	"	11°48'42"	
3+50	25	"	"	"	15°27'33"	
3+75	25	"	"	"	19°06'28"	
3+87.23	12.33	10.88	13.77	1°47'58"	20°54'20"	

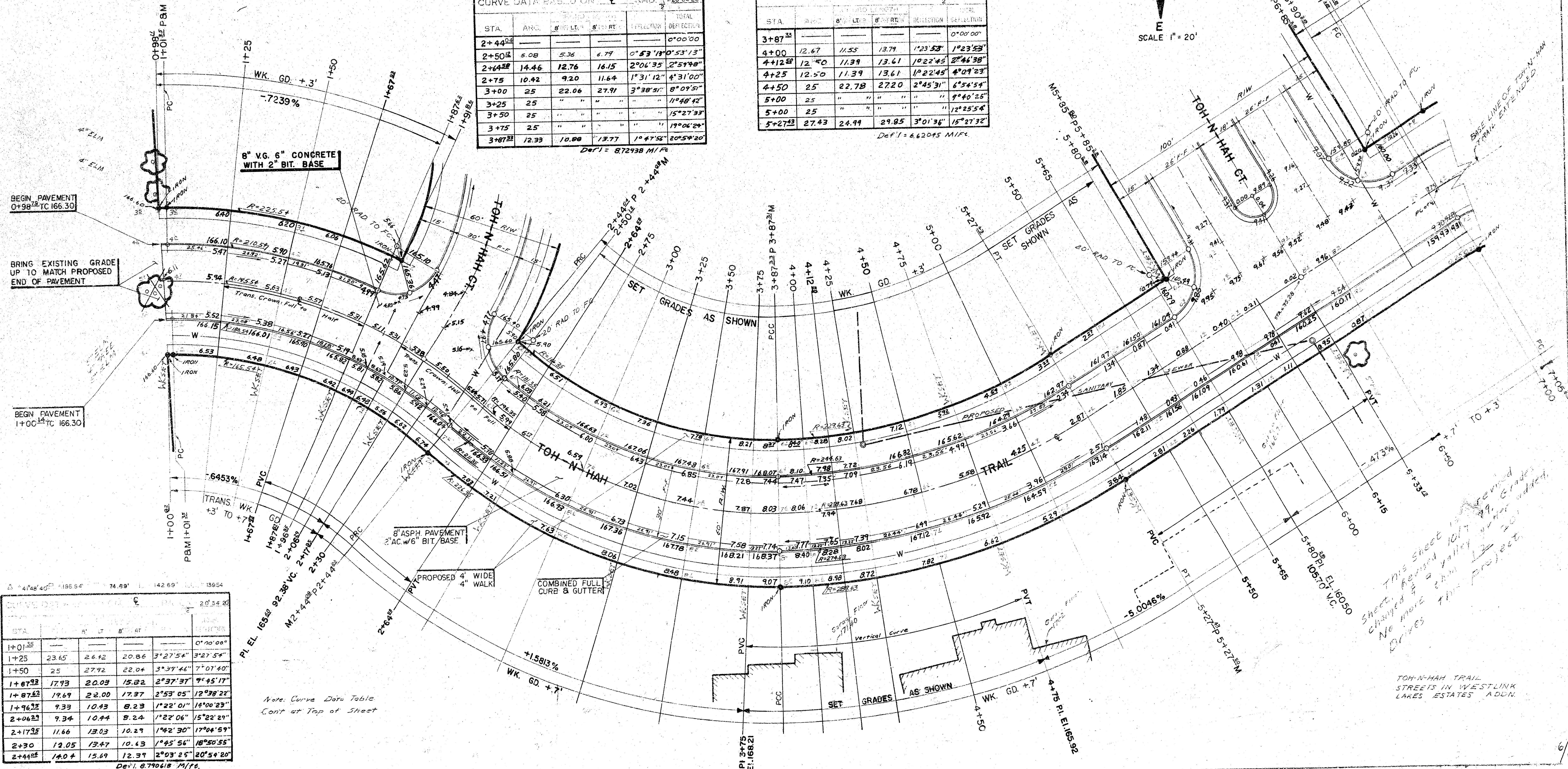
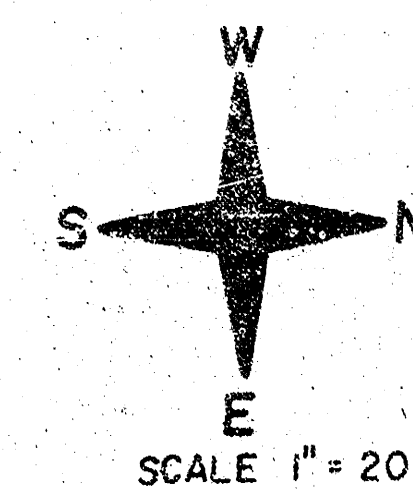
Def'l = 872938 M/F

Δ = 30°55'05" R = 259.65' T = 71.80' L = 140.10' LC = 138.41'

CURVE DATA BASED ON $\frac{1}{2}$ RAD. Δ = 15°27'32"

STA	ARC	8" V.G.	6" BIT. BASE	8" V.G.	6" BIT. BASE	TOTAL DEFLECTION
3+87.23						0°00'00"
4+00	12.67	11.55	13.79	1°23'53"	1°23'53"	
4+12.58	12.50	11.39	13.61	1°22'45"	2°46'38"	
4+25	12.50	11.39	13.61	1°22'45"	4°09'23"	
4+50	25	22.78	27.20	2°45'31"	6°54'54"	
5+00	25	"	"	"	9°40'25"	
5+25	25	"	"	"	12°25'54"	
5+27.53	27.43	24.49	29.85	3°01'36"	15°27'32"	

Def'l = 662045 M/F



Δ = 41°46'40" R = 196.35' T = 75' L = 143.29' LC = 140.13'

CURVE DATA BASED ON $\frac{1}{2}$ RAD. Δ = 20°54'20"

STA	ARC	8" V.G.	6" BIT. BASE	8" V.G.	6" BIT. BASE	TOTAL DEFLECTION
1+00						0°00'00"
1+25	23.65	26.42	20.86	3°27'54"	3°27'54"	
1+50	25	27.92	22.04	3°37'44"	7°01'40"	
1+87.23	17.93	20.03	15.82	2°37'37"	9°45'17"	
1+87.23	17.93	20.03	15.82	2°37'37"	12°28'22"	
1+96.23	9.33	10.43	8.23	1°22'01"	14°00'23"	
2+06.23	9.34	10.44	8.24	1°22'06"	15°22'29"	
2+17.23	11.66	13.03	10.29	1°42'30"	17°04'59"	
2+30	12.05	13.47	10.63	1°45'56"	18°50'55"	
2+44.25	14.04	15.69	12.39	2°03'25"	20°54'20"	

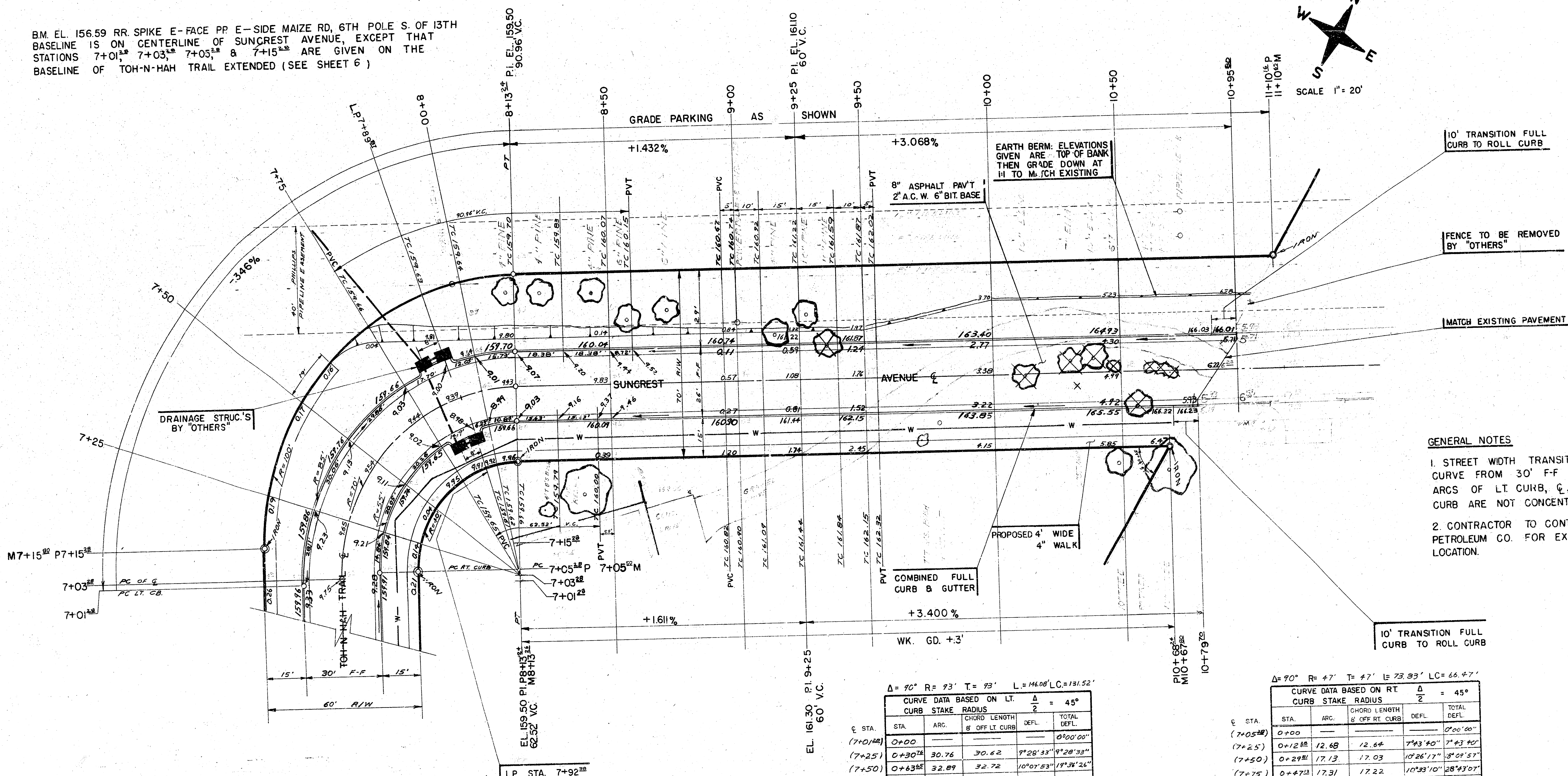
Def'l = 872938 M/F

Note: Curve Data Table
 Cont. at Top of Sheet

This sheet is a revised
 sheet. Revised 10/17/99. Grades
 changed to 2' valley where added.
 No more than 12' valley
 drives this project.

TOH-N-HAH TRAIL
 STREETS IN WESTLINK
 LAKES ESTATES ADDN.

BM. EL. 156.59 RR SPIKE E-FACE PP E-SIDE MAIZE RD, 6TH POLE S. OF 13TH
BASELINE IS ON CENTERLINE OF SUNCREST AVENUE, EXCEPT THAT
STATIONS 7+01.38, 7+03.38, 7+05.38 & 7+15.38 ARE GIVEN ON THE
BASELINE OF TOH-N-MAH TRAIL EXTENDED (SEE SHEET 6)



GENERAL NOTES

1. STREET WIDTH TRANSITIONS AROUND CURVE FROM 30' F-F TO 26' FF. ARCS OF LT CURB, C, AND RT. CURB ARE NOT CONCENTRIC.
2. CONTRACTOR TO CONTACT PHILLIPS PETROLEUM CO. FOR EXACT PIPELINE LOCATION.

$\Delta = 90^\circ$ $R = 93'$ $T = 93'$ $L = 146.06'$ $LC = 131.52'$

CURVE DATA BASED ON LT. $\frac{\Delta}{2} = 45^\circ$

STA.	STA.	ARC.	CHORD LENGTH 8' OFF LT. CURB	DEFL.	TOTAL DEFL.
(7+01.38)	0+00				0°00'00"
(7+03.38)	0+30.76	30.76	30.62	9°28'33"	9°28'33"
(7+05.38)	0+63.52	32.76	32.72	10°07'53"	19°36'26"
(7+15.38)	0+96.28	32.76	32.50	10°03'52"	29°40'18"
(7+01.38)	1+15.38	19.36	19.32	5°57'49"	35°38'07"
(7+03.38)	1+48.14	13.19	13.18	4°03'49"	39°41'56"
(7+05.38)	1+80.90	17.21	17.18	5°18'04"	44°59'50"

Def'l = 10.483' / ft.

$\Delta = 90^\circ$ $R = 47'$ $T = 47'$ $L = 73.83'$ $LC = 66.47'$

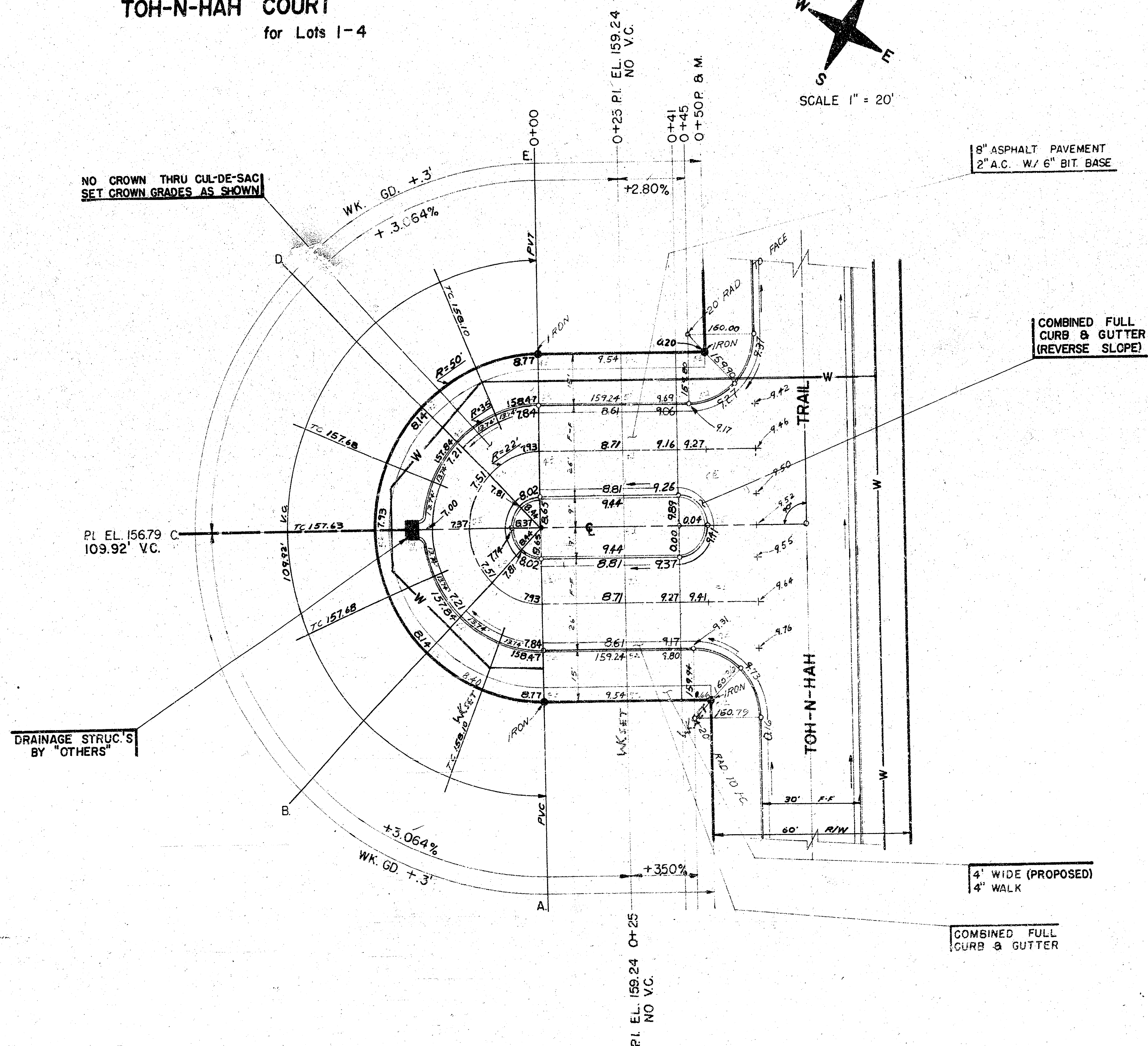
CURVE DATA BASED ON RT. $\frac{\Delta}{2} = 45^\circ$

STA.	STA.	ARC.	CHORD LENGTH 8' OFF RT. CURB	DEFL.	TOTAL DEFL.
(7+05.38)	0+00				0°00'00"
(7+15.38)	0+12.68	12.68	12.64	7°43'40"	7°43'40"
(7+25.38)	0+25.36	17.13	17.03	10°26'17"	18°10'57"
(7+35.38)	0+42.50	17.31	17.22	10°33'10"	28°43'07"
(7+45.38)	0+59.81	12.12	12.09	7°23'15"	36°06'22"
(7+55.38)	0+72.52	5.33	5.33	3°14'53"	39°21'15"
(7+65.38)	0+77.85	9.26	9.25	5°38'45"	45°00'00"

Def'l = 36.57' / ft.

SUNCREST AVENUE
STREETS IN WESTLINK
LAKES ESTATES ADDN.

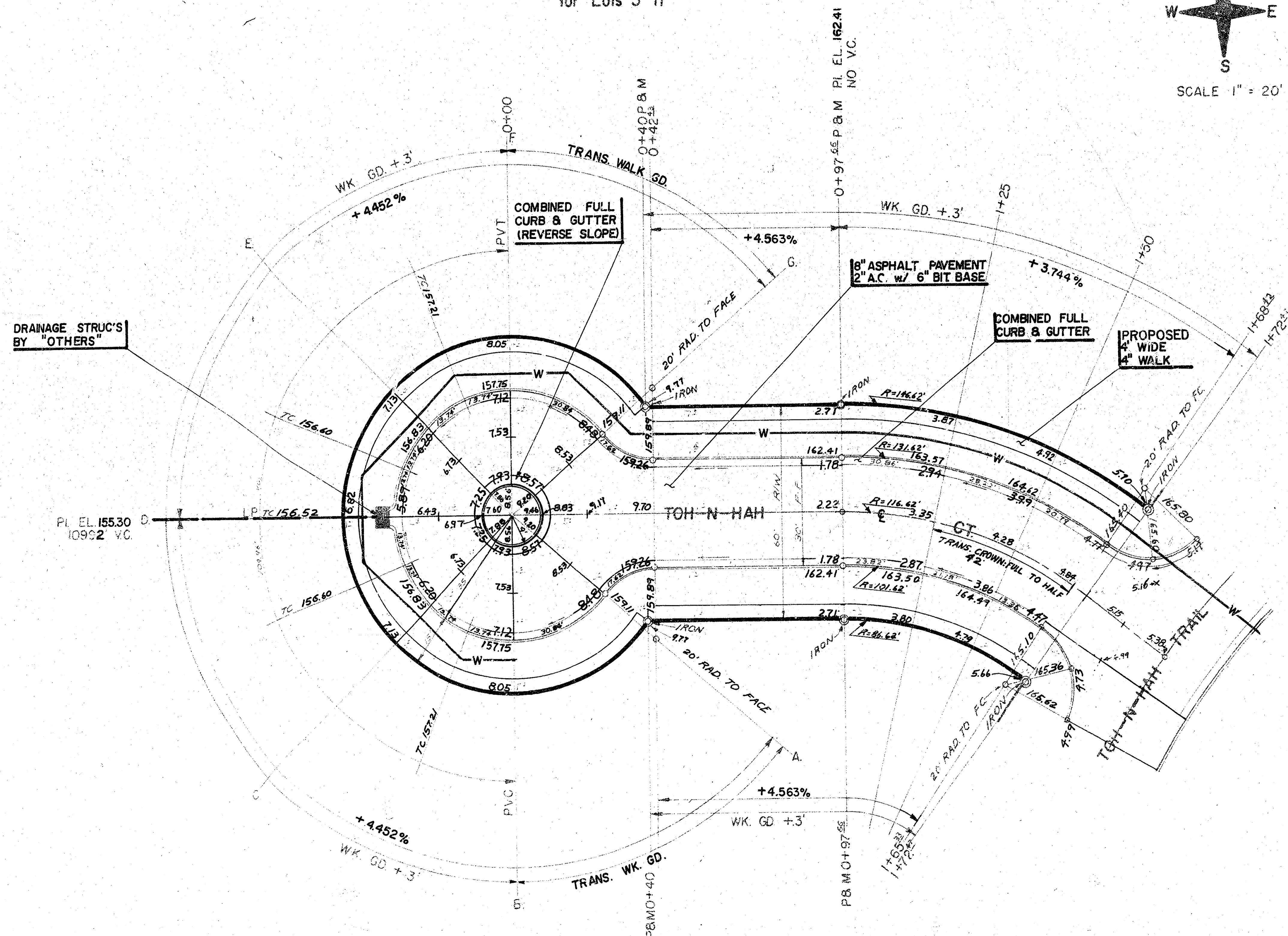
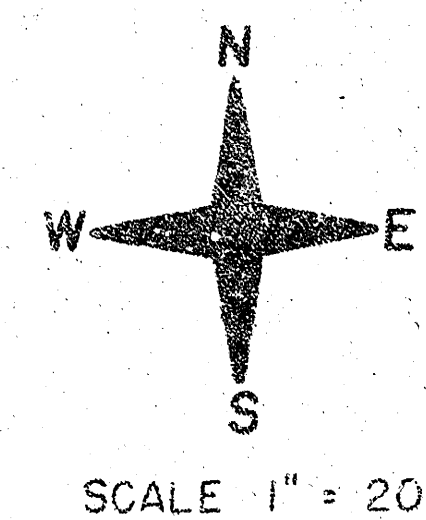
TOH-N-HAH COURT
for Lots 1-4



TOH-N-HAH COURT (LOTS 1-4)
STREETS IN WESTLINK LAKES
ESTATES ADDN

B.M. EL. 151.67 RR. SPIKE E-FACE PP NE. CORNER HARVEST LN. & MAIZE RD, 18' N. OF N-LINE HARVEST LANE
 BASELINE IS C TOH-N-HAH CT.

TOH-N-HAH COURT for Lots 5-11



*This sheet is a revised
 sheet Revised 10/9/79.
 Grades changed. No more
 than 12-20' drives to
 be constructed this project.*

$\Delta = 36^\circ 45' 07''$ $R = 116.62'$ $T = 36.74'$ $L = 74.81'$ $LC = 73.53'$

CURVE DATA BASED ON ϕ RAD $\Delta = 18^\circ 22' 34''$

STA.	ARC	CHORD LENGTH		TOTAL DEFLECTION	
		8" OF CURVE	18" OF CURVE	DEFLECTION	DEFLECTION
0+97.88				0°00'00"	
1+25	27.34	32.44	21.90	6°42'57"	6°42'57"
1+50	25	29.87	20.03	6°08'28"	12°51'25"
1+65.83	15.33	18.34	12.30	3°45'54"	16°37'21"
1+68.88	3.07	3.70	2.48	0°45'32"	17°22'53"
1+72.21	4.05	4.85	3.25	0°59'41"	18°22'34"

14.738226 11/74