

STREET IMPROVEMENTS FOR EMERSON

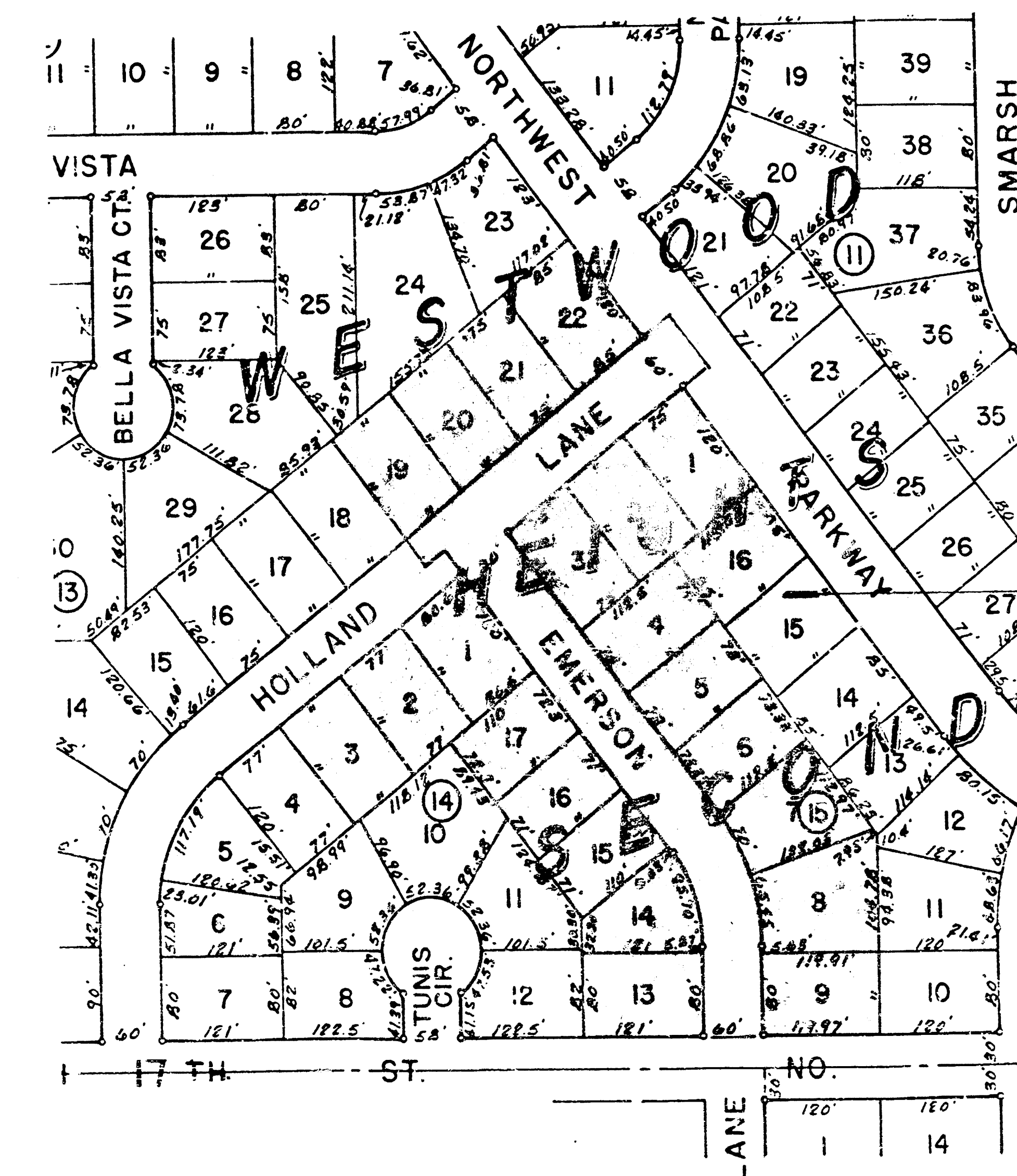
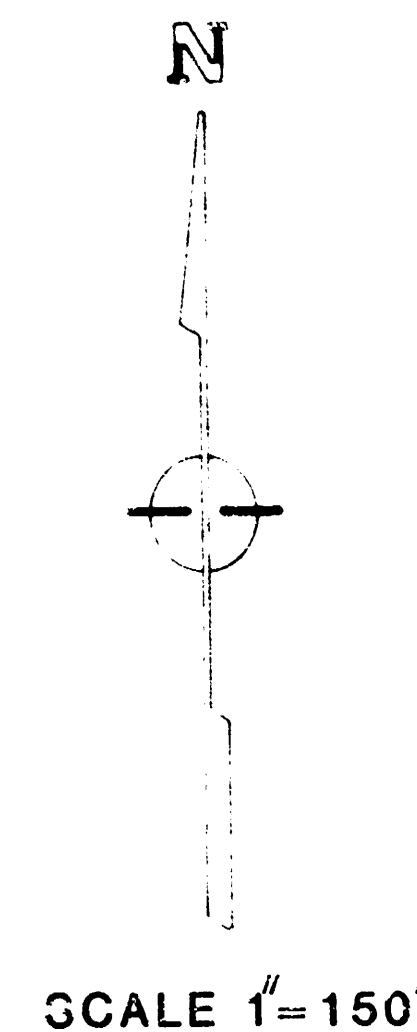
FROM THE NORTH LINE OF 17TH STREET NORTH
TO THE SOUTH LINE OF HOLLAND LANE

HOLLAND LANE

FROM THE SOUTHWEST CORNER OF LOT 19, BLOCK 13,
WESTWOOD HEIGHTS 2ND ADDITION AND WESTERLY LINE
OF EMERSON TO THE CENTERLINE OF NORTHWEST PARKWAY

GENERAL NOTES

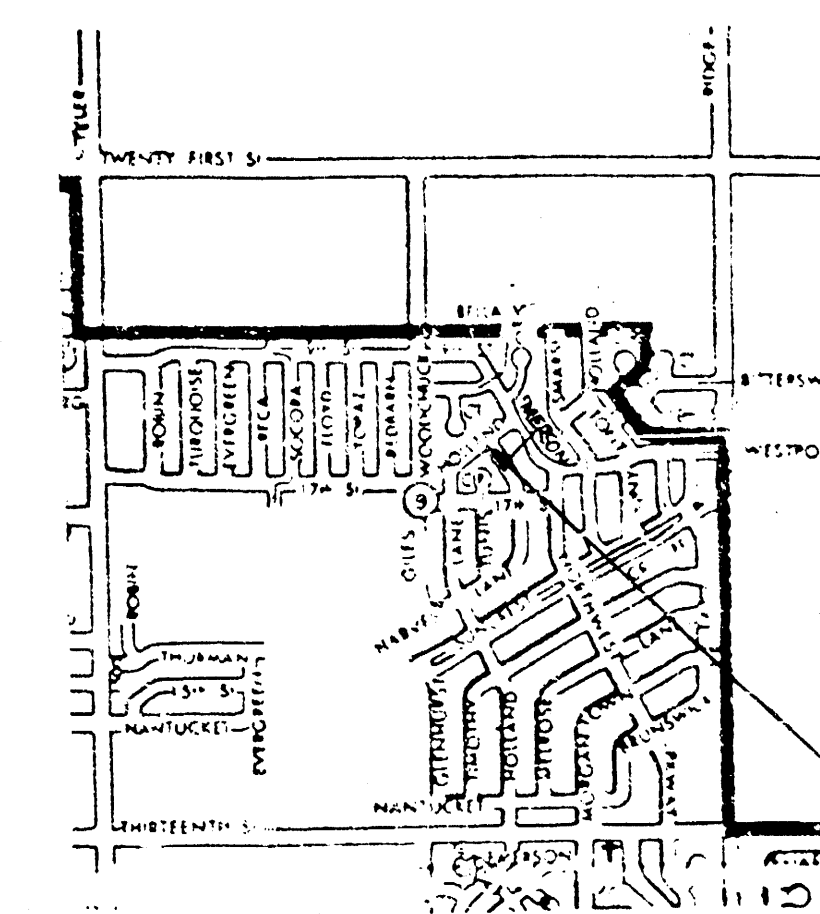
1. Utility service lines, poles, valve boxes, meters, and appurtenances are to be adjusted as necessary by proper prior to construction unless the plans specifically call for their adjustment by the Contractor. Existing utilities and their location as shown on the plans represent the best information obtainable for design. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
2. A saw cut of at least one-half the depth of existing surface courses or one-fourth the depth of the existing total pavement thickness shall be provided at locations where proposed construction abuts an existing surface course or pavement for which partial removal of that surface or pavement is required. Sawed joint to facilitate removal within three (3) feet of existing joints will not be permitted and for such instances the limits of removal shall extend to the existing joint. Such saw cuts will not be paid for directly and this cost shall be considered as subsidiary to the removal of the surface or pavement.
3. No more than 7 drives 18 feet in width, or equivalent combinations thereof, are to be constructed with this project.
4. Widened gutter section of combined curb and gutter at intersections will not be paid for directly, and this cost shall be considered as subsidiary to the other contract pay items of work.
5. Limits of earthwork shall match existing ground elevations at the right-of-way line unless otherwise noted on the plans with a new finished grade elevation. When a new finished grade elevation is shown, the earthwork shall extend one foot beyond the right-of-way line and then sloped up or down using permissible slopes to match the existing ground surface.
6. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor or a licensed professional engineer in accordance with state laws.



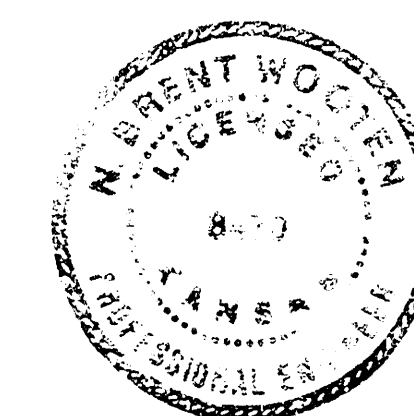
IMPROVEMENT DISTRICT

CITY OF WICHITA, KS.

MICHAEL E. LINDEBAK CITY ENGINEER



PROJECT VICINITY

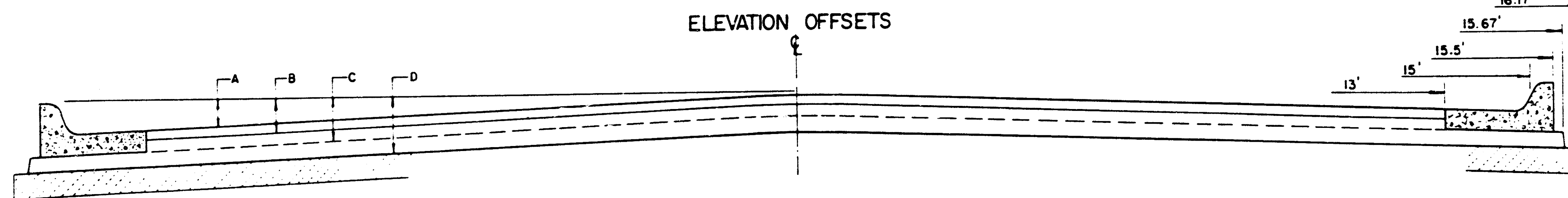
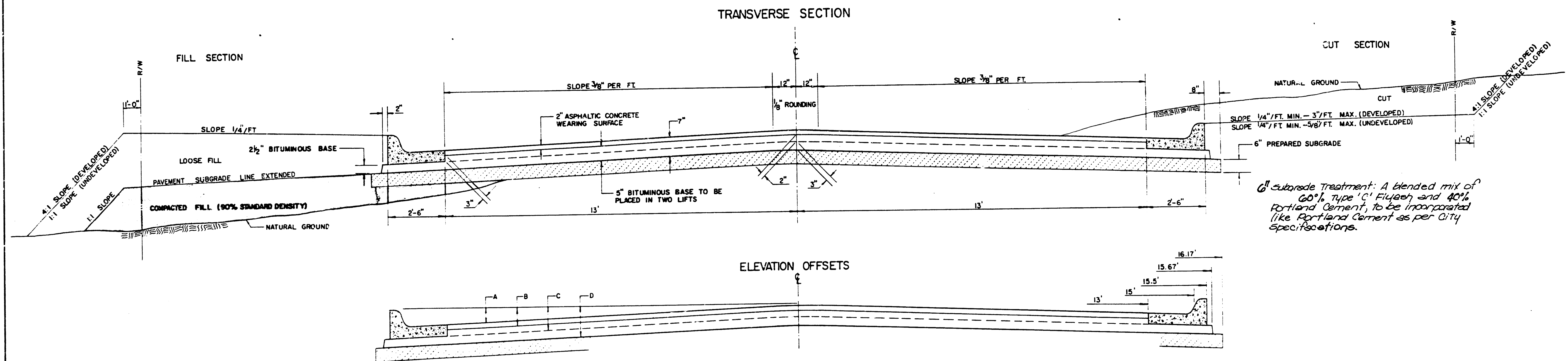


SEPT. 1986

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

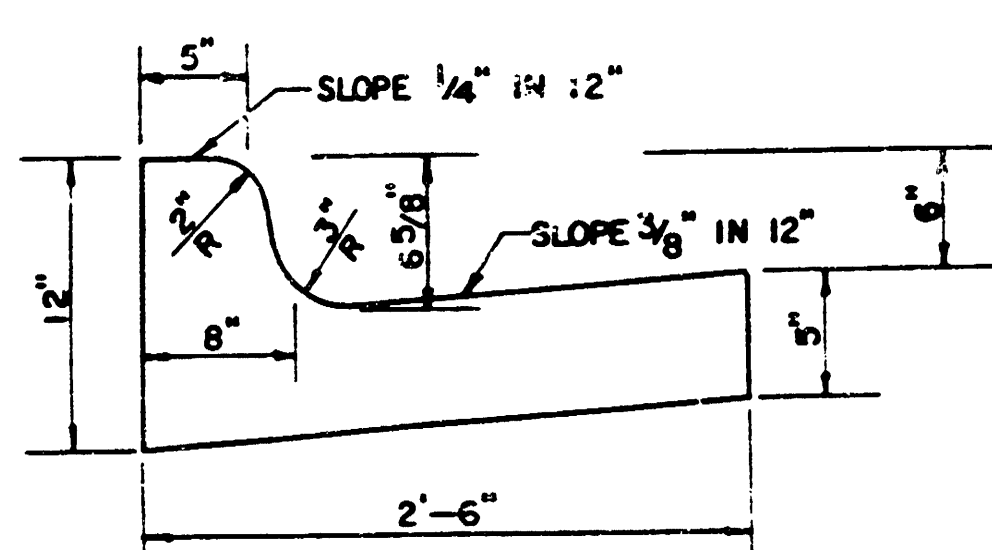
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TYPICAL 31' PAVEMENT DETAILS

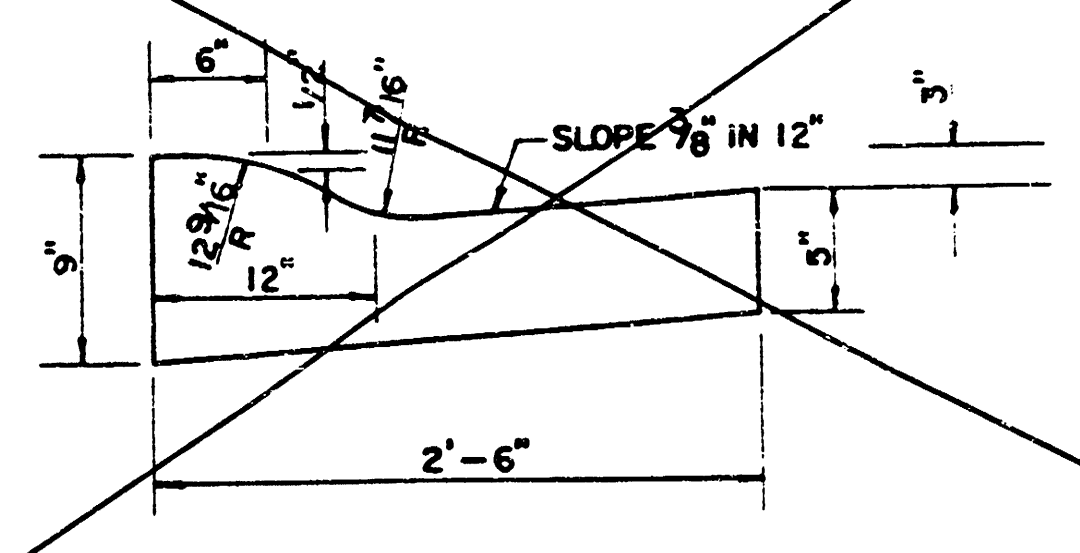


	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7.5'	10'	12'	13'	15'	15.5'	15.67'	16.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.10	0.14	0.21	0.27	0.32	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.27	0.31	0.38	0.44	0.49	0.56	0.63	0.66	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.44	0.49	0.57	0.64	0.70	0.79	0.87	0.90	0.98	1.00	1.00	—
D: TOP OF CURBS TO TOP OF SUBGRADE	0.69	0.73	0.80	0.87	0.93	1.01	1.08	1.12	1.19	1.21	1.21	1.23

COMBINED CURB & GUTTER



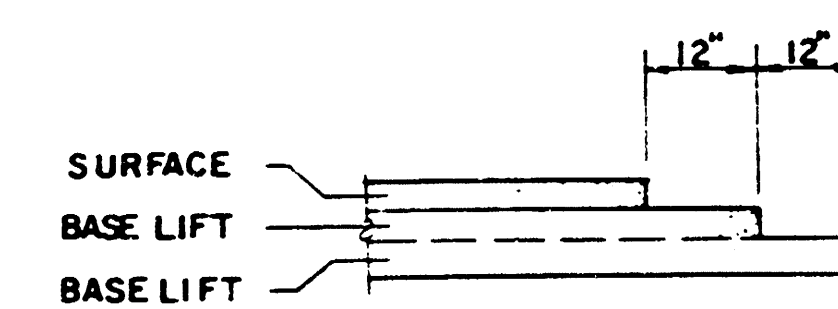
ROLL TYPE COMBINED CURB & GUTTER



GENERAL NOTES

- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).
- 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2 1/2" BITUMINOUS BASE.
- 3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.
- 4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
- 5) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.
- 6) CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.

TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINTS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).

2/7 2/7

7 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS
PROJECT NUMBER
472-76-245-81558-000-000-001

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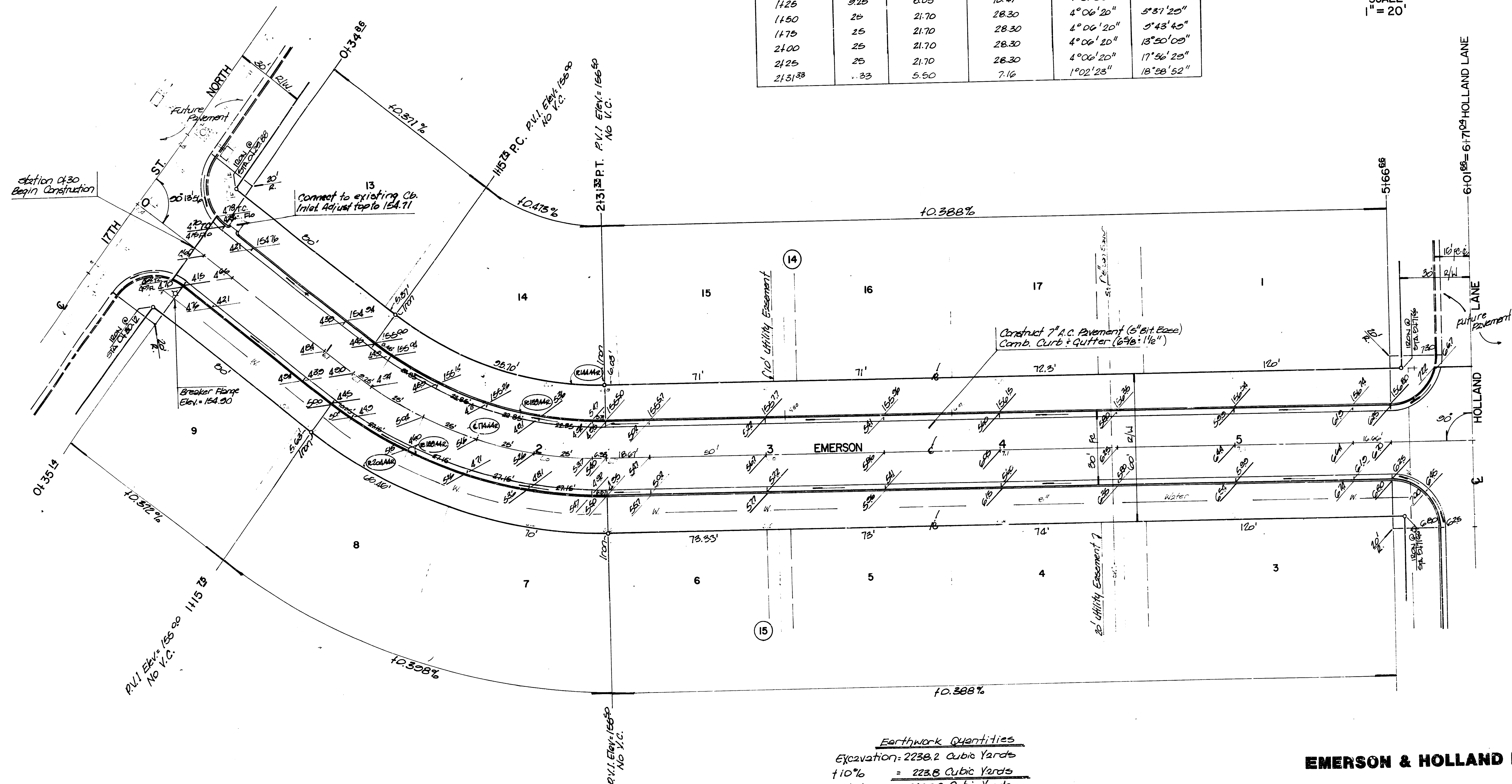
Bench Marks

- 1) "Cut 2 feet east of existing end of return on the northern side of Northwest Parkway, located near the west end of lot 29, block 11, Westwood Heights 2nd Addition. Elevation = 154.82 City Datum.
- 2) "Cut 3.5 feet west of end of existing curb (east of existing curb inlet) on the South side of 17th Street North, located near the N.E. Corner of Westlink 16th Addition. Elevation = 157.98 City Datum.

Curve Data Based on Center Line

Curve Data Based on Center Line					
R=174.44 Δ=37°57'43" L=115.58 LC=113.47 Tan=60.00' Def/A=0.16422°					
Station	Arc	Chord Lengths		Def Δ	Total Def Δ
		B' Left of Face	B' Right of Face		
1115 P.C.	—	—	—	0°00'00"	0°00'00"
1125	9.25	8.03	10.47	1°31'00"	1°31'00"
1150	25	21.70	28.30	4°06'20"	5°37'20"
1175	25	21.70	28.30	4°06'20"	9°43'40"
1200	25	21.70	28.30	4°06'20"	13°50'00"
1225	25	21.70	28.30	4°06'20"	17°56'20"
1231.33	1.33	5.50	7.16	1°02'23"	18°58'52"

SCALE
1" = 20'



Earthwork Quantities

Excavation: 2238.2 Cubic Yards
 +10% = 223.8 Cubic Yards
 Total = 2462.0 Cubic Yards
 Subgrade Manipulation: 3281.2 Square Yards

EMERSON & HOLLAND LANE

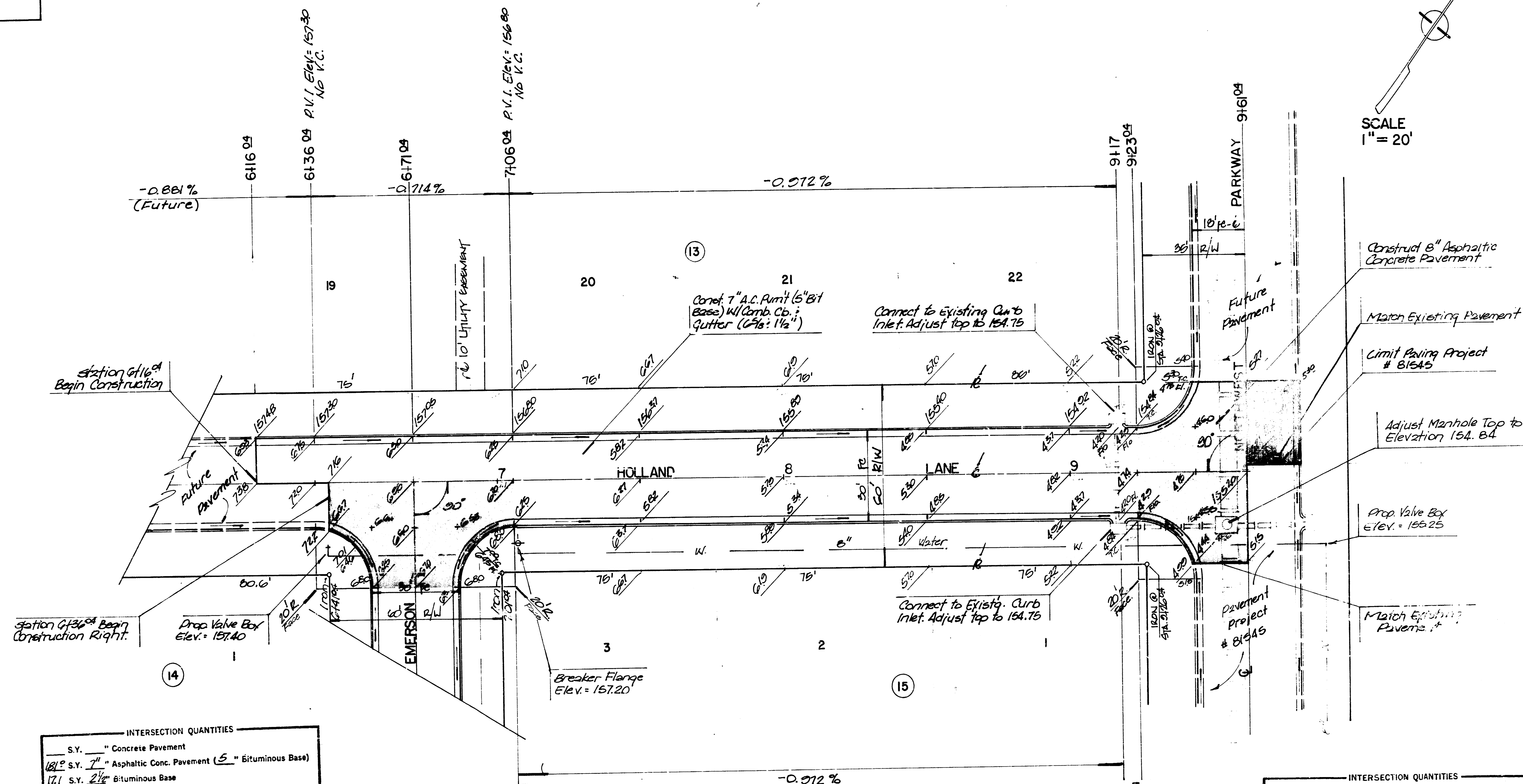
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Bench Marks

- 1) "A" Cut 2 feet east of existing end of return on the northern side of Northwest Parkway, located near the west end of lot 29, block 11, Westwood Heights 2nd Addition. Elevation = 154.82 City Datum.
- 2) "B" Cut 5.5 feet west of end of existing curb (east of existing curb inlet) on the south side of 17th Street North, located near the N.E. Corner of Westlink 16th Addition. Elevation = 157.98 City Datum.



SCALE
1" = 20'

INTERSECTION QUANTITIES	
181.2	S.Y. 7" Concrete Pavement
171.1	S.Y. 7" Asphaltic Conc. Pavement (5" Bituminous Base)
171.1	S.Y. 2 1/2" Bituminous Base
27.8	L.F. Combined Curb & Gutter
	L.F. Integral Curb
	S.F. 4" Wheelchair Ramp
	S.F. 4" Walk
	C.Y. Excavation
	C.Y. Compacted Fill
	Lbs. Reinforcing Steel
20.4	S.Y. Manipulation
	Tons Lime or Cement
	S.Y. V.G. Concrete & Asphaltic Concrete Base

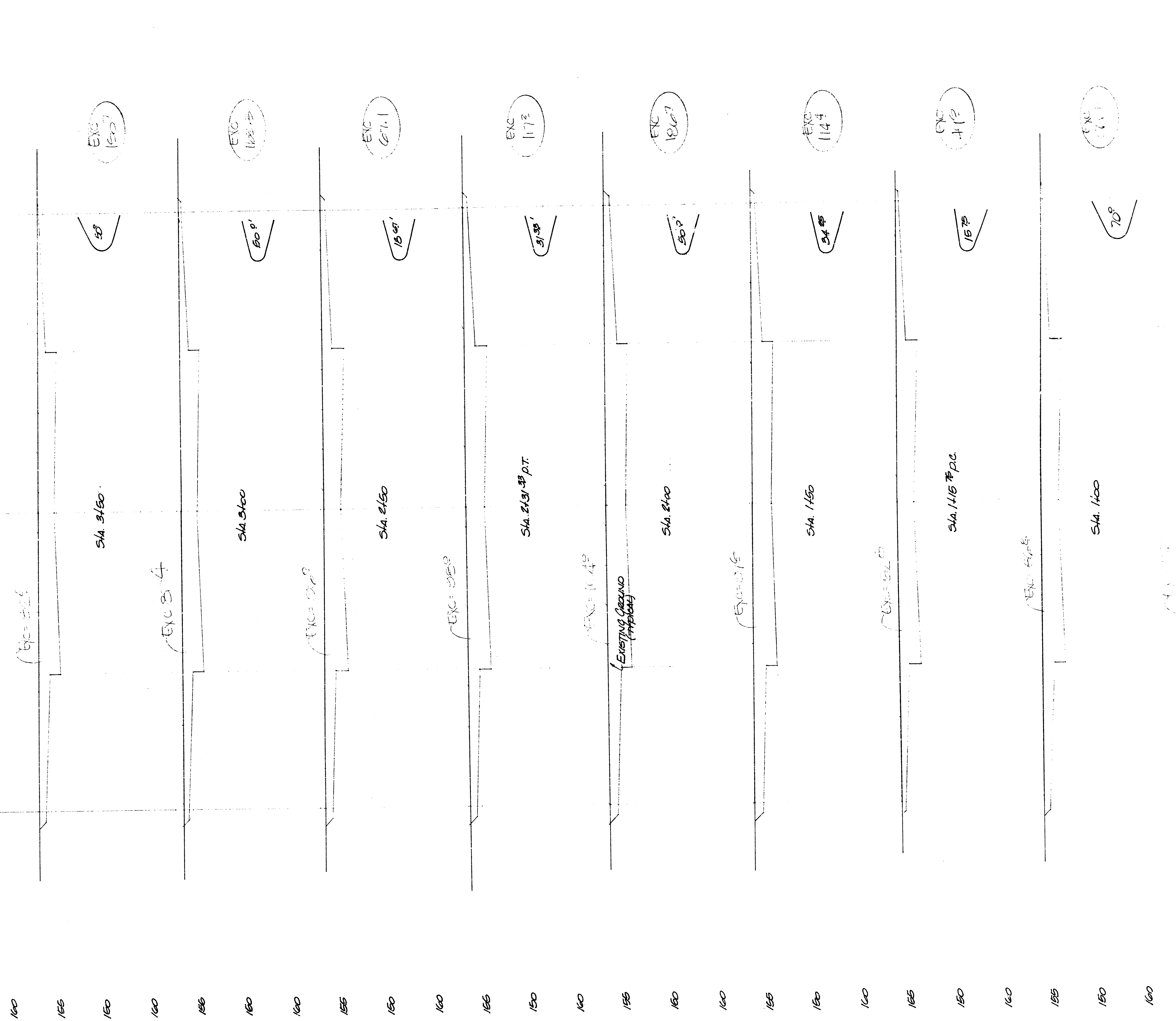
INTERSECTION QUANTITIES	
24.4	S.Y. 7" Concrete Pavement
191.1	S.Y. 7" Asphaltic Conc. Pavement (5" Bituminous Base)
191.1	S.Y. 2 1/2" Bituminous Base
65.3	L.F. Combined Curb & Gutter
	L.F. Integral Curb
	S.F. 4" Wheelchair Ramp
	S.F. 4" Walk
	C.Y. Excavation
	C.Y. Compacted Fill
	Lbs. Reinforcing Steel
22.8	S.Y. Manipulation
	Tons Lime or Cement
	S.Y. V.G. Concrete & Asphaltic Concrete Base

EMERSON & HOLLAND LANE

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EARTHWORK QUANTITIES									
EMERSON									
140	145	150	155	160	165	170	175	180	185
190	195	200	205	210	215	220	225	230	235
240	245	250	255	260	265	270	275	280	285
290	295	300	305	310	315	320	325	330	335
340	345	350	355	360	365	370	375	380	385
390	395	400	405	410	415	420	425	430	435
440	445	450	455	460	465	470	475	480	485
490	495	500	505	510	515	520	525	530	535
540	545	550	555	560	565	570	575	580	585
590	595	600	605	610	615	620	625	630	635
640	645	650	655	660	665	670	675	680	685
690	695	700	705	710	715	720	725	730	735
740	745	750	755	760	765	770	775	780	785
790	795	800	805	810	815	820	825	830	835
840	845	850	855	860	865	870	875	880	885
890	895	900	905	910	915	920	925	930	935
940	945	950	955	960	965	970	975	980	985
990	995	1000	1005	1010	1015	1020	1025	1030	1035

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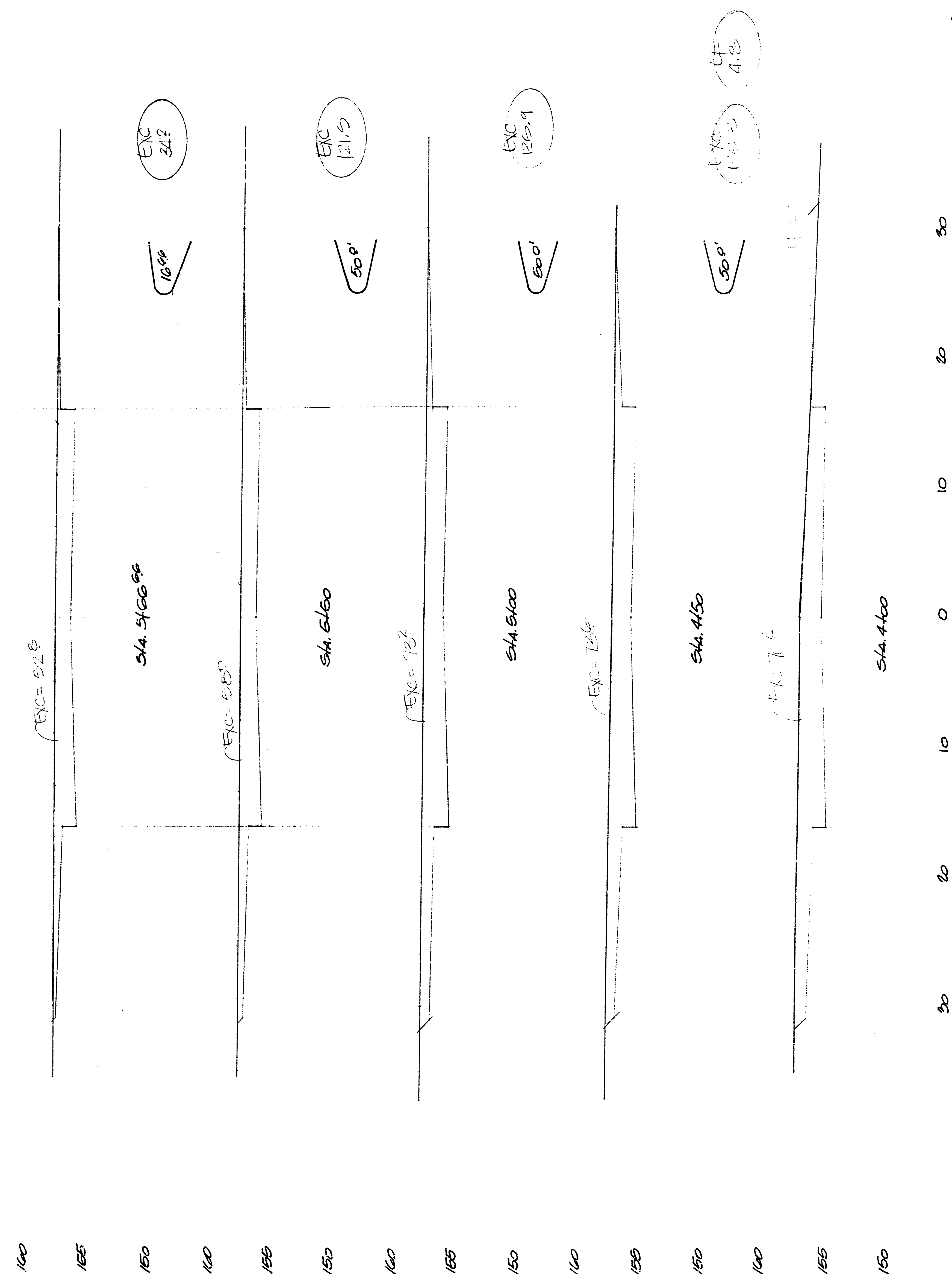
Ex. 424.9 Cyl

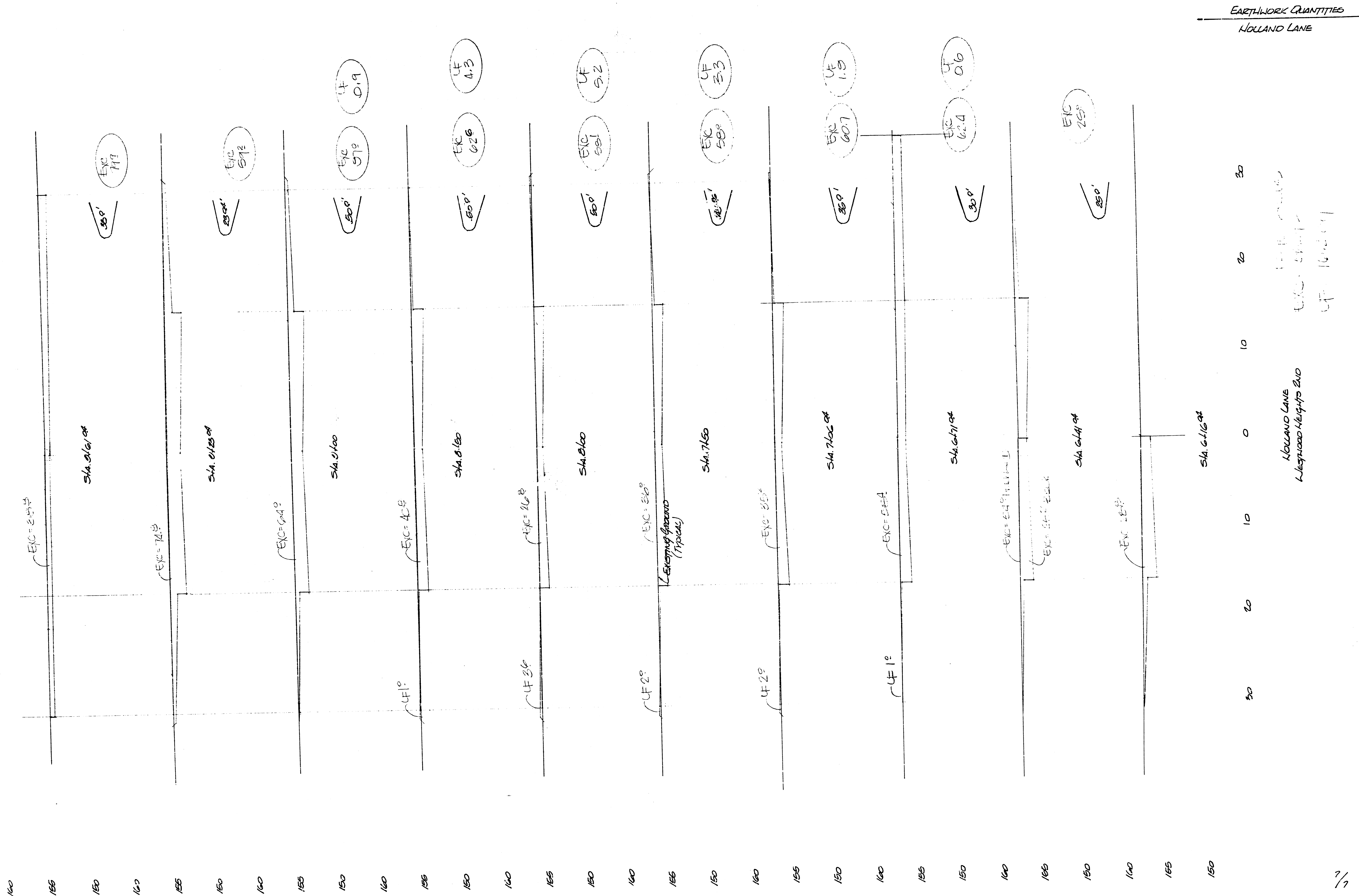
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EARTHWORK QUANTITIES
HOLLAND LANE