

STREET IMPROVEMENTS FOR FOURTH ADDITION TO CEDAR RIDGE

MT. VERNON — FROM THE EAST LINE OF BEECH TO THE EAST LINE OF LOT 11, BLOCK 3, FOURTH ADDITION TO CEDAR RIDGE AND THE EAST LINE OF LOT 9, BLOCK 1, HEDGECLIFF 3RD ADDITION.

BEECH — FROM THE NORTH LINE OF MT. VERNON TO THE SOUTH LINE OF SKINNER.

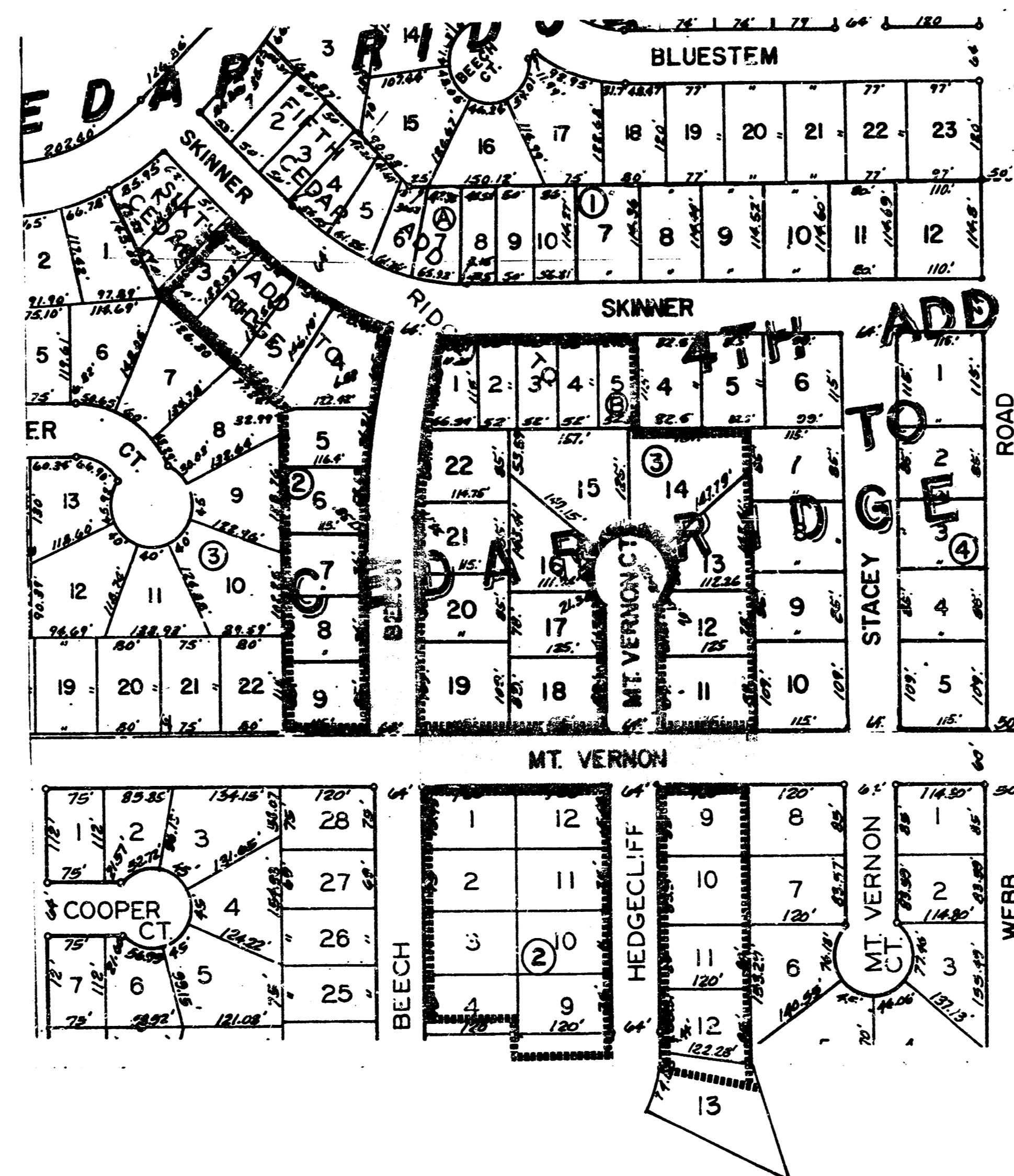
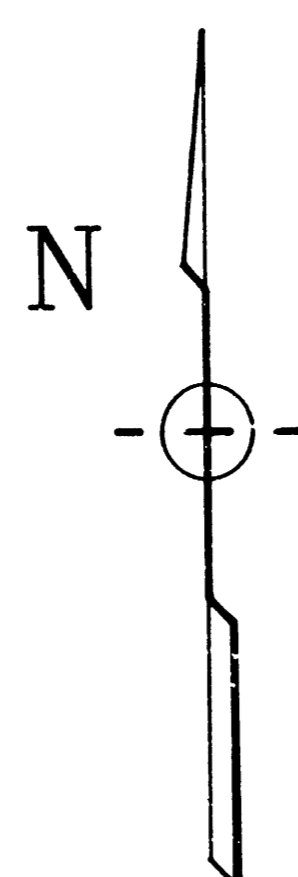
MT. VERNON CT. — FROM THE NORTH LINE OF MT. VERNON TO AND INCLUDING CUL-DE-SAC.

CITY OF WICHITA, KANSAS
MIKE E. LINDEBAK CITY ENGINEER

PROJECT NO.
472-76-245-81352-000-000-001

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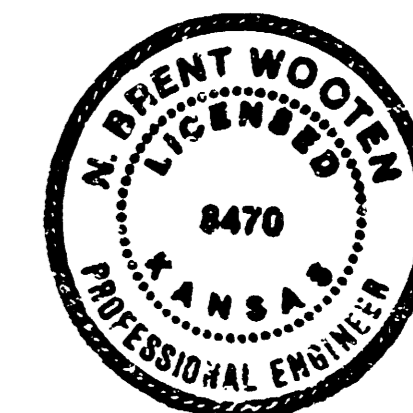


BENCH MARK — Elevation 182.48. City Standard Disc located 47' West and 44' North of 1/4 Section Corner at Webb Road and Mt. Vernon

BENCH MARK — Elevation 173.50. "d" Cut in Top of Curb @ End of Return of Valley Gutter, East Side of Skinner & Beech,

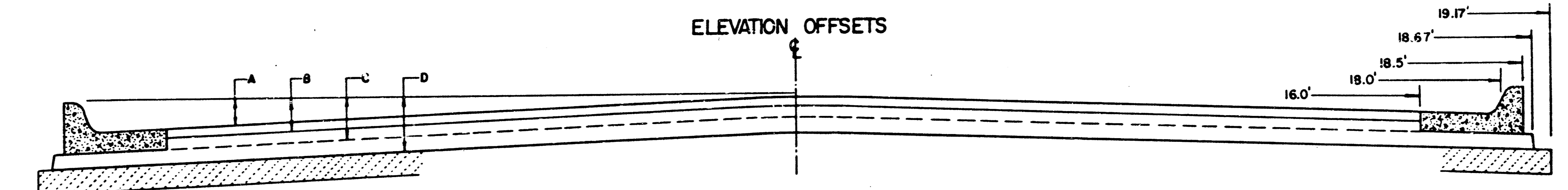
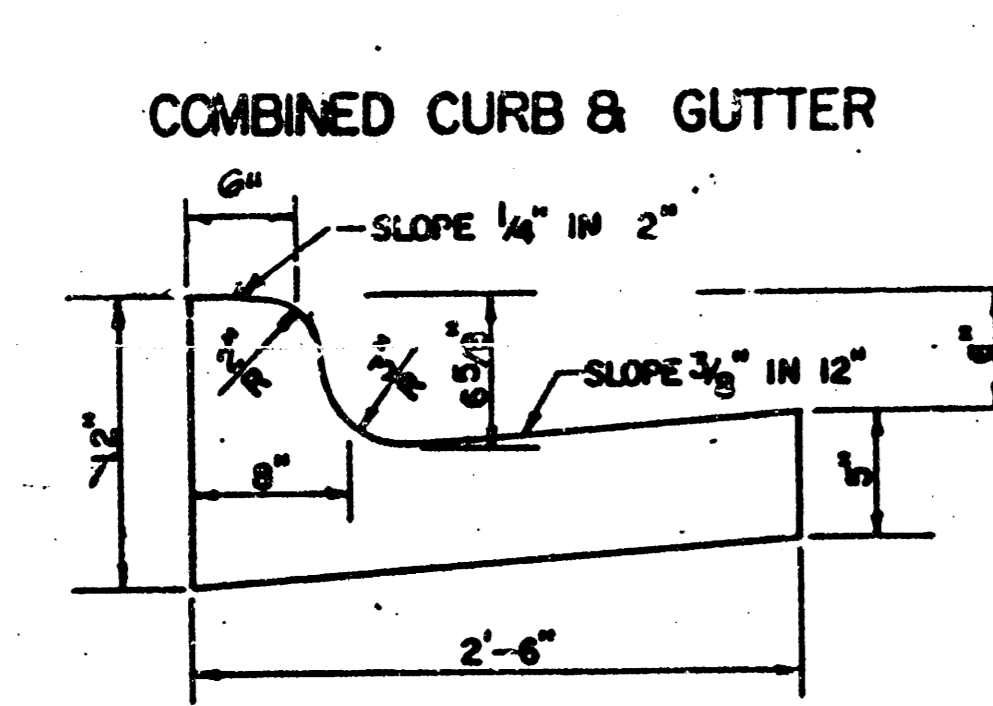
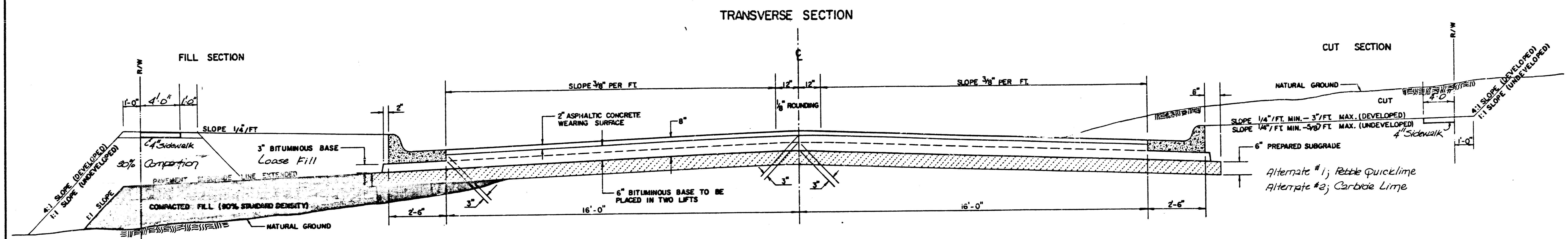
GENERAL NOTES

1. Utility service lines, poles, valve boxes, meters, and appurtenances are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. 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. No more than 3 drives 20 feet in width, or equivalent combinations thereof, are to be constructed with this project.
3. The Contractor will be permitted to bid only one of the alternate types of subgrade treatment. The type bid by the successful bidder will be the type of subgrade treatment used to construct the project.
4. 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 in accordance with state laws.
5. The Contractor shall contact Cliff Nies of Nies Construction for verification and location of the drives to be constructed with this project.
6. The Contractor shall coordinate construction of this project with Project number 472-76-245-81351-000-000-001, the paving to the east, so that the construction of both projects occur simultaneously.

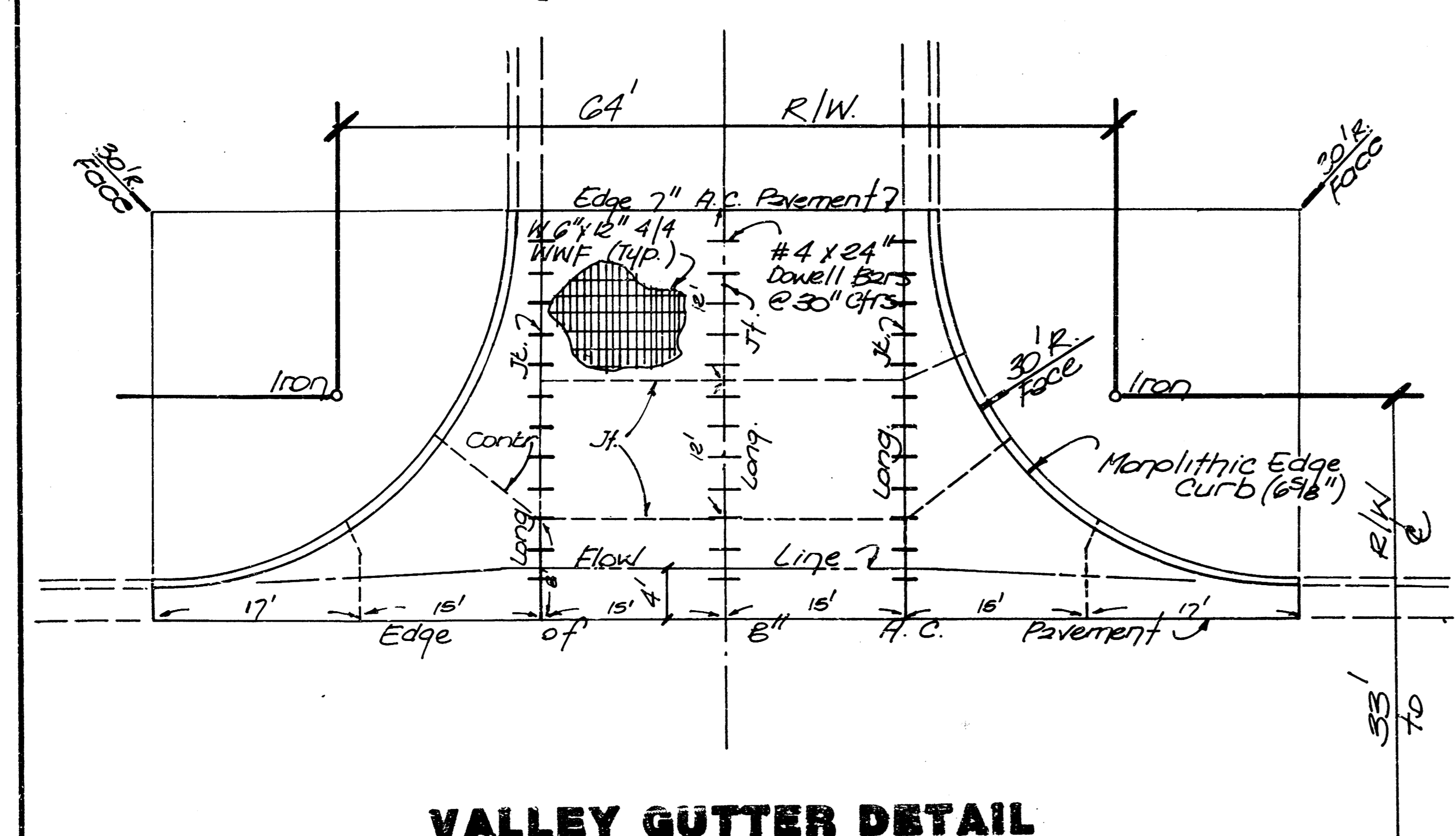
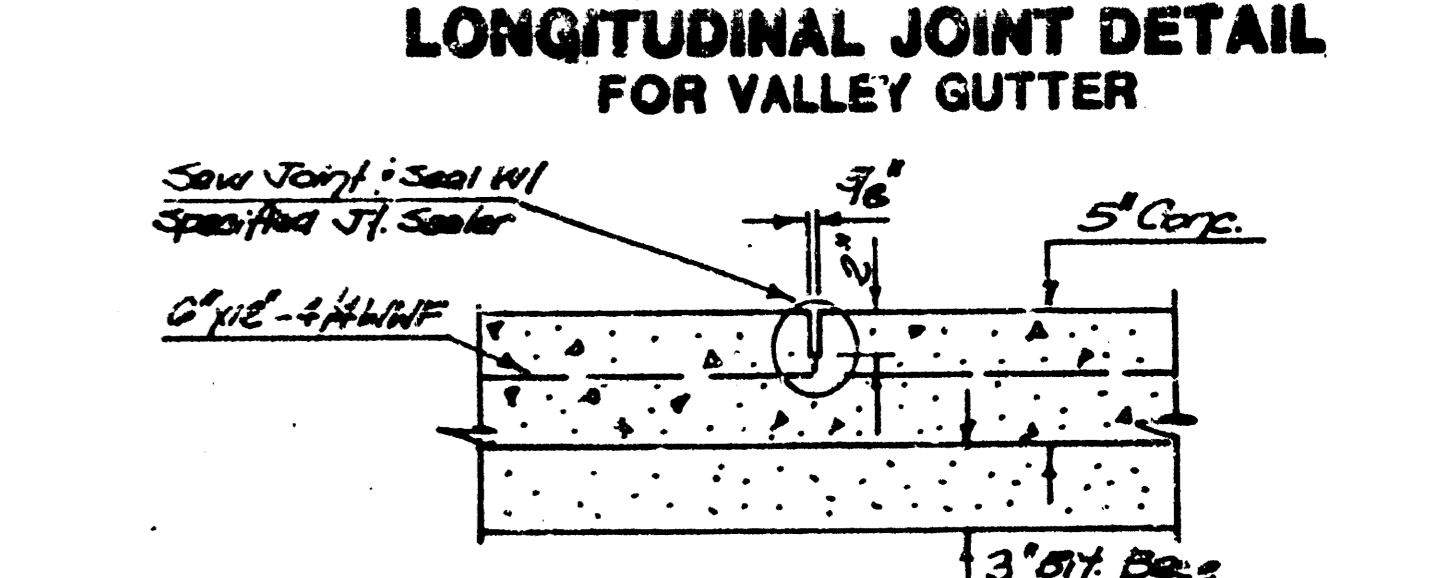
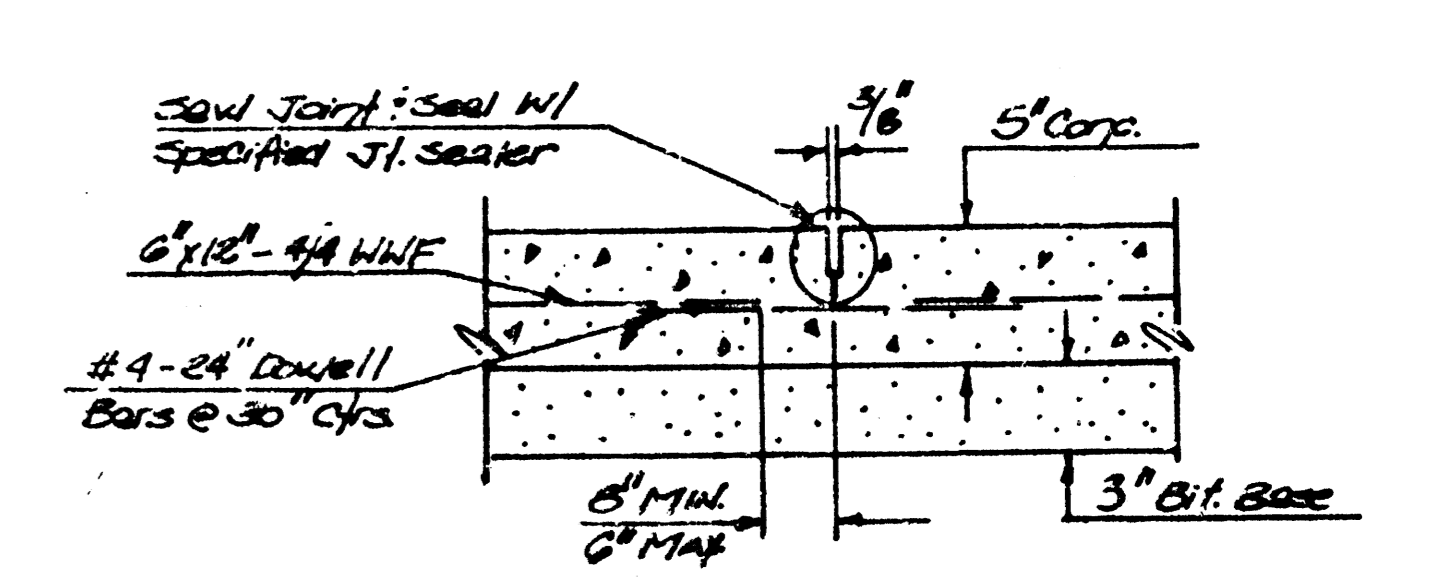


Rev. Aug. 18, 1988
Aug. 4, 1988 1/12

TYPICAL 37' PAVEMENT DETAILS N. VERNON



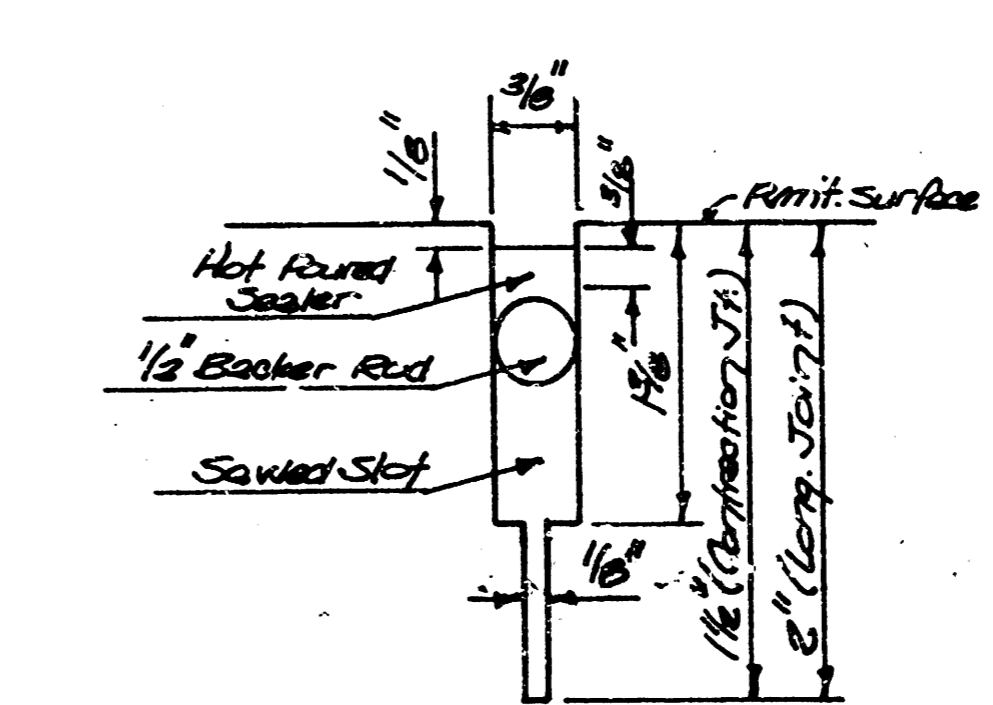
	DISTANCE FROM CENTERLINE (L.T. & RT.)												
	0	2	4	6	8	10	12	14	16	18	18.5	18.67	19.17
A: TOP OF CURBS TO TOP OF SURFACE LIFT	.01	.05	.11	.18	.24	.30	.36	.43	.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	.17	.22	.28	.34	.40	.47	.53	.59	.65	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	.42	.47	.53	.59	.65	.72	.78	.84	.90	.97	.98	.99	—
D: TOP OF CURBS TO TOP OF SUBGRADE	.67	.72	.78	.84	.90	.97	1.03	1.09	1.13	1.22	1.23	1.24	1.25



VALLEY GUTTER DETAIL

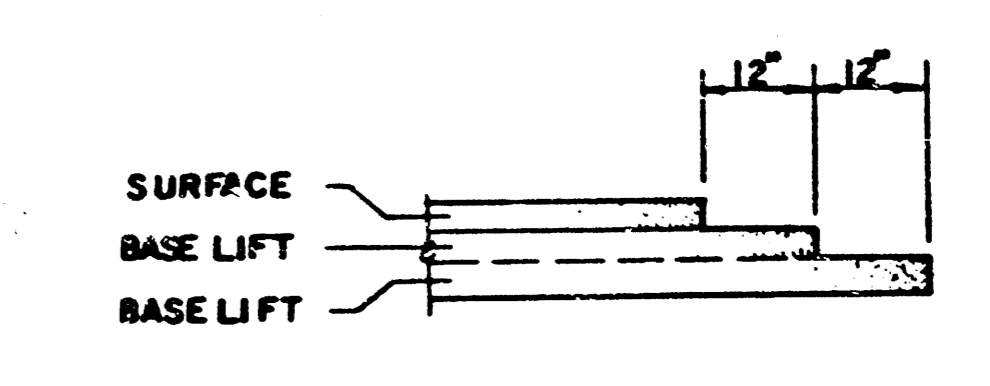
GENERAL NOTES

- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 6" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).
- 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 3" 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.



SAW JOINT DETAIL FOR CONT. AND LONG. JOINTS

TRANSVERSE CONSTRUCTION JOINTS

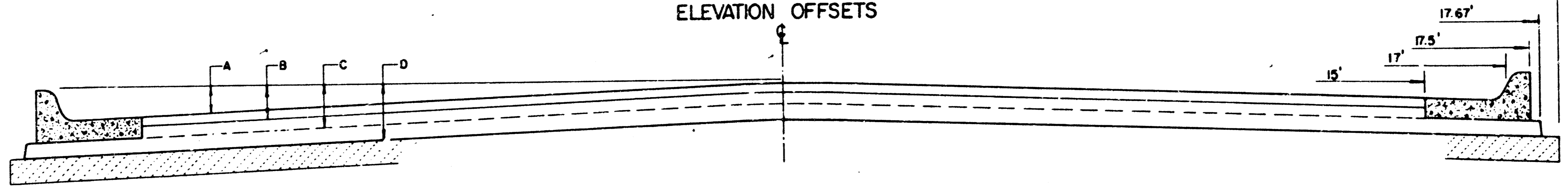
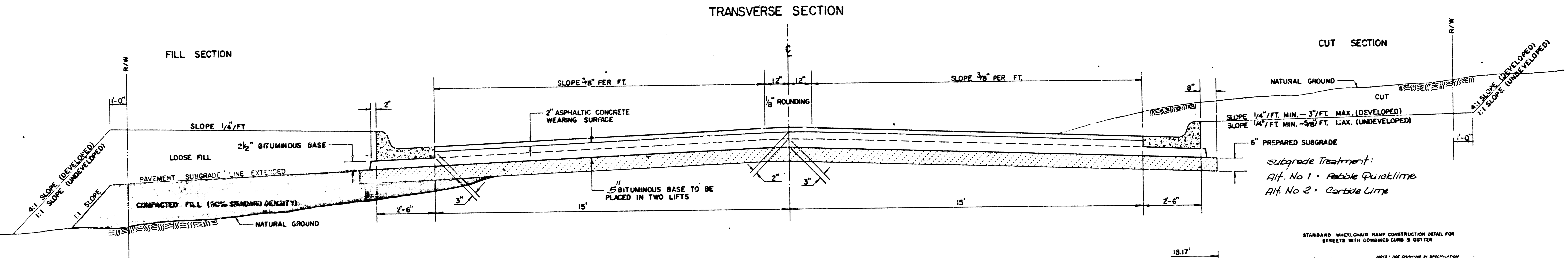


TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINTS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 6" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

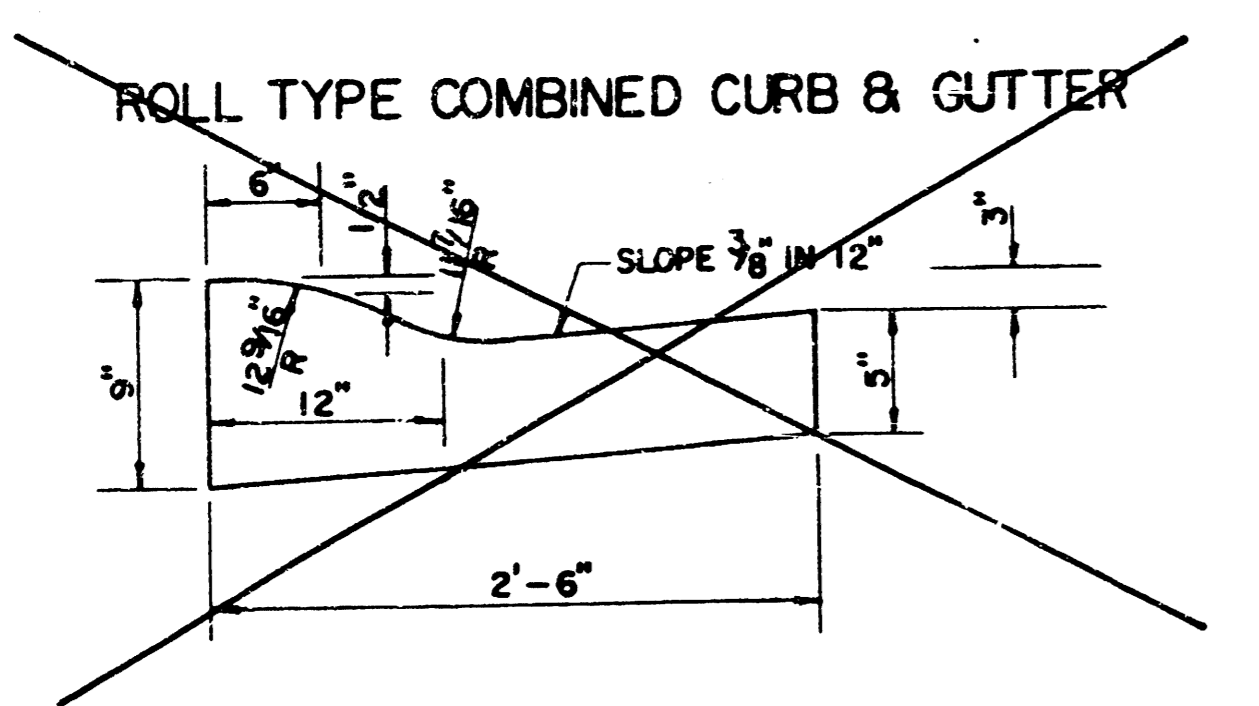
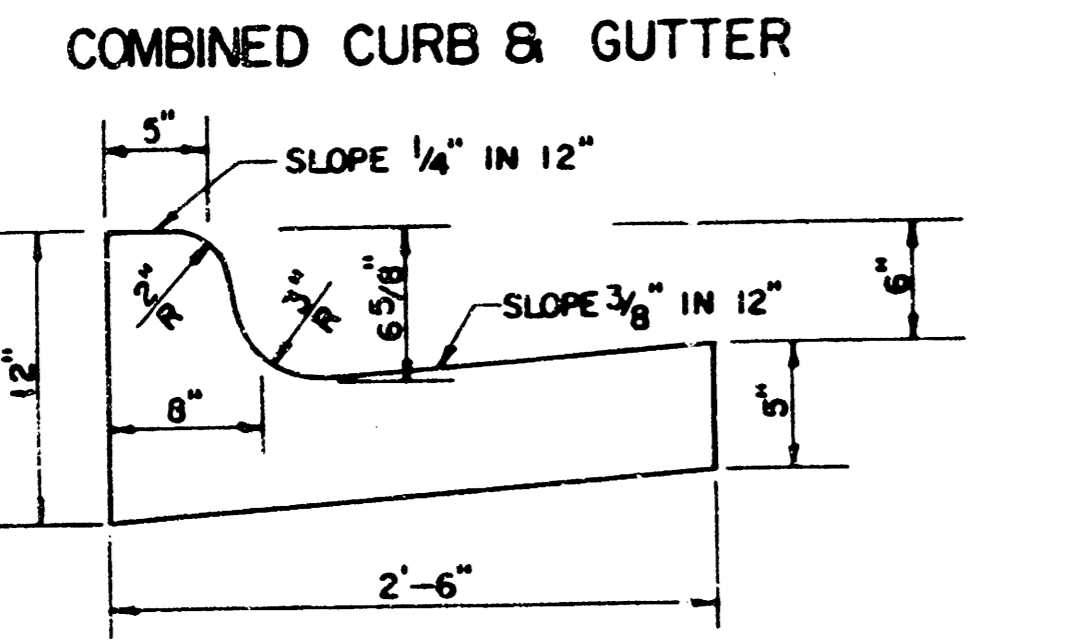
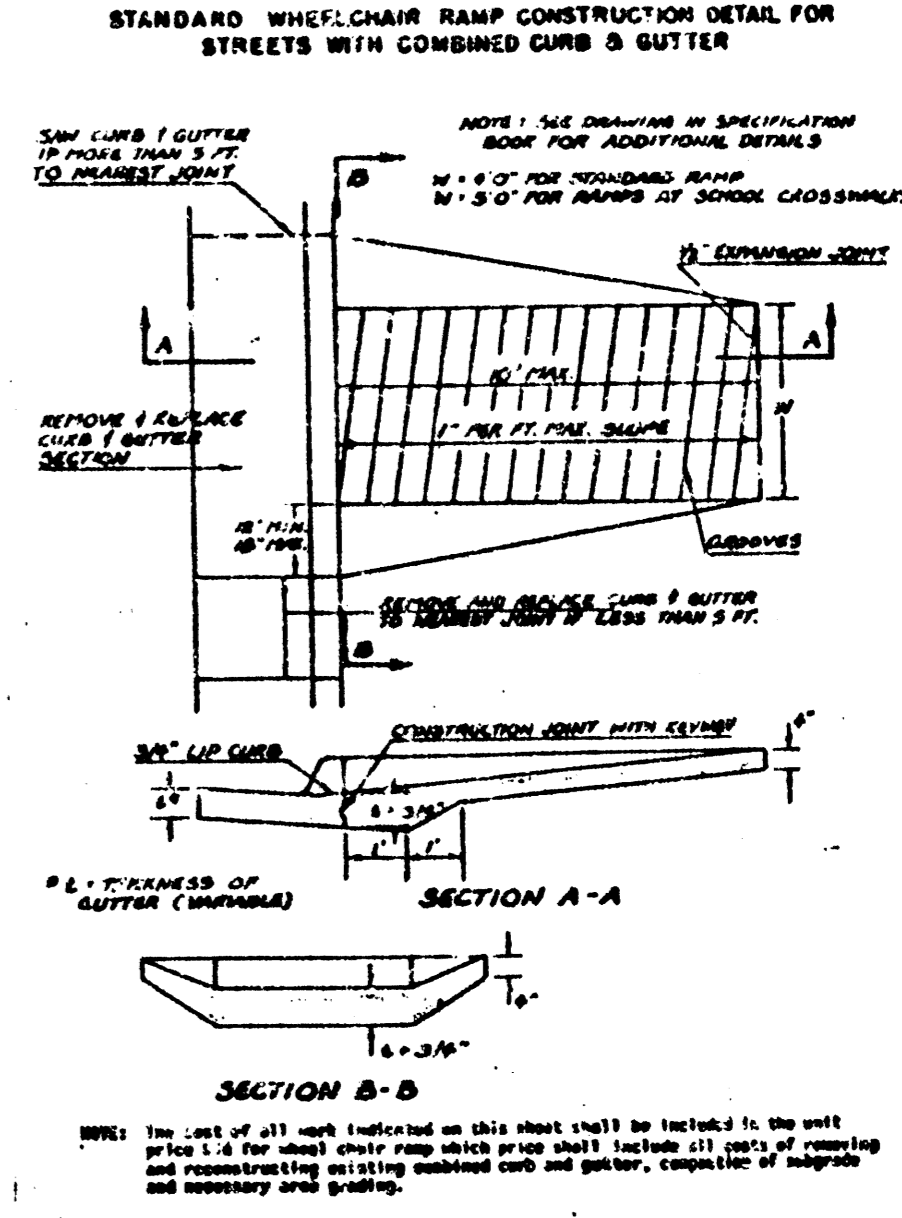
2/12

8 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 6 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS
PROJECT NUMBER
472-76-245-81352-000-000-001

TYPICAL 35' PAVEMENT DETAILS BEECH / MT. VERNON CT.



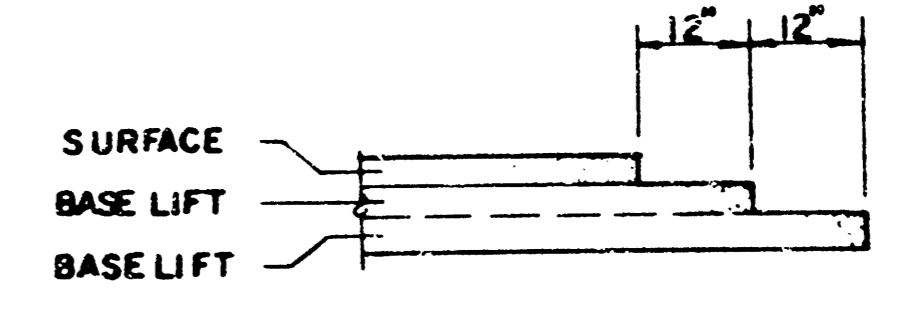
	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'	17.67'	18.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.37	0.43	0.50	0.57	0.67	0.72	0.79	0.87	0.90	0.98	1.00	1.00	—
D: TOP OF CURBS TO TOP OF SUBGRADE	0.62	0.67	0.74	0.81	0.90	0.95	1.02	1.08	1.12	1.19	1.21	1.21	1.23



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



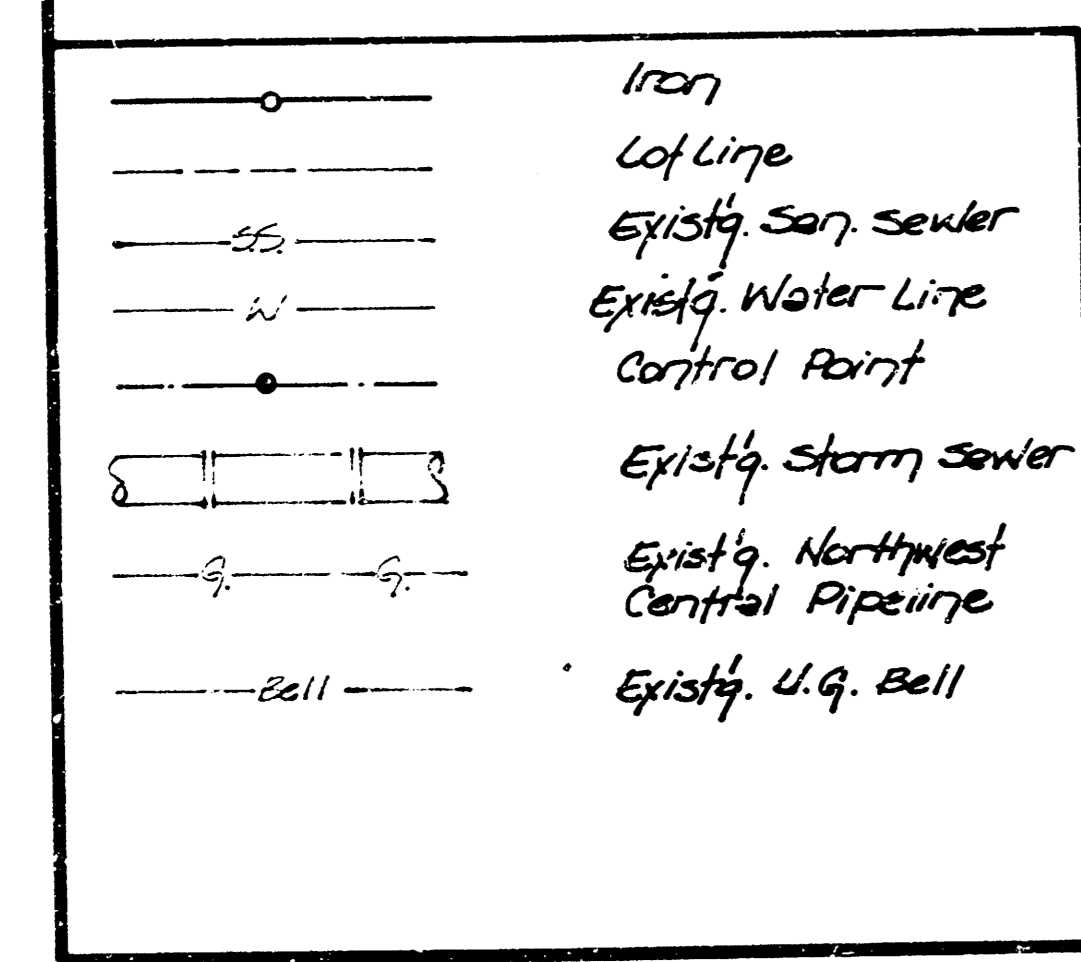
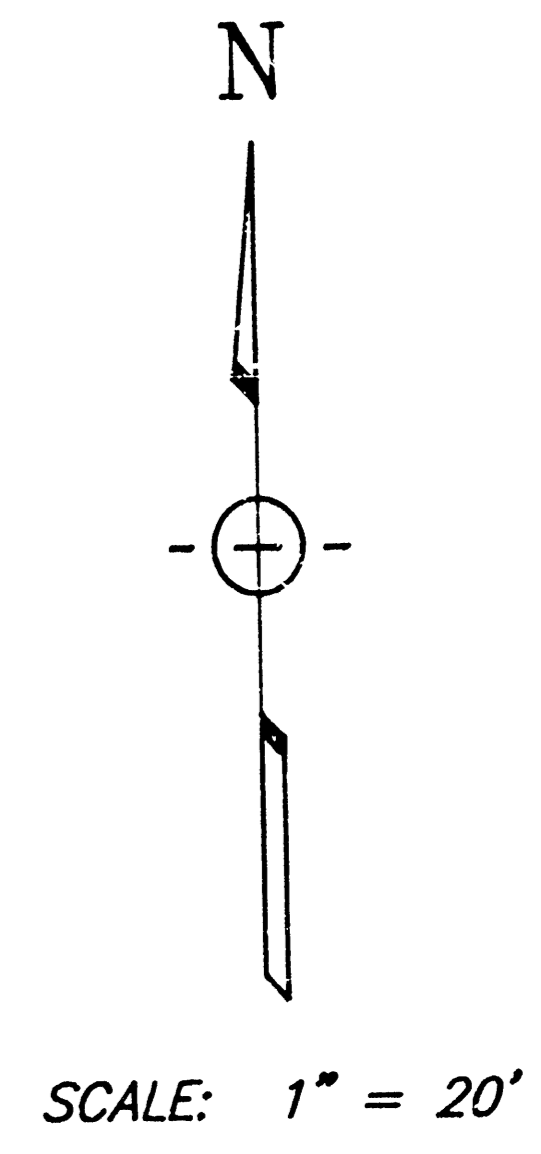
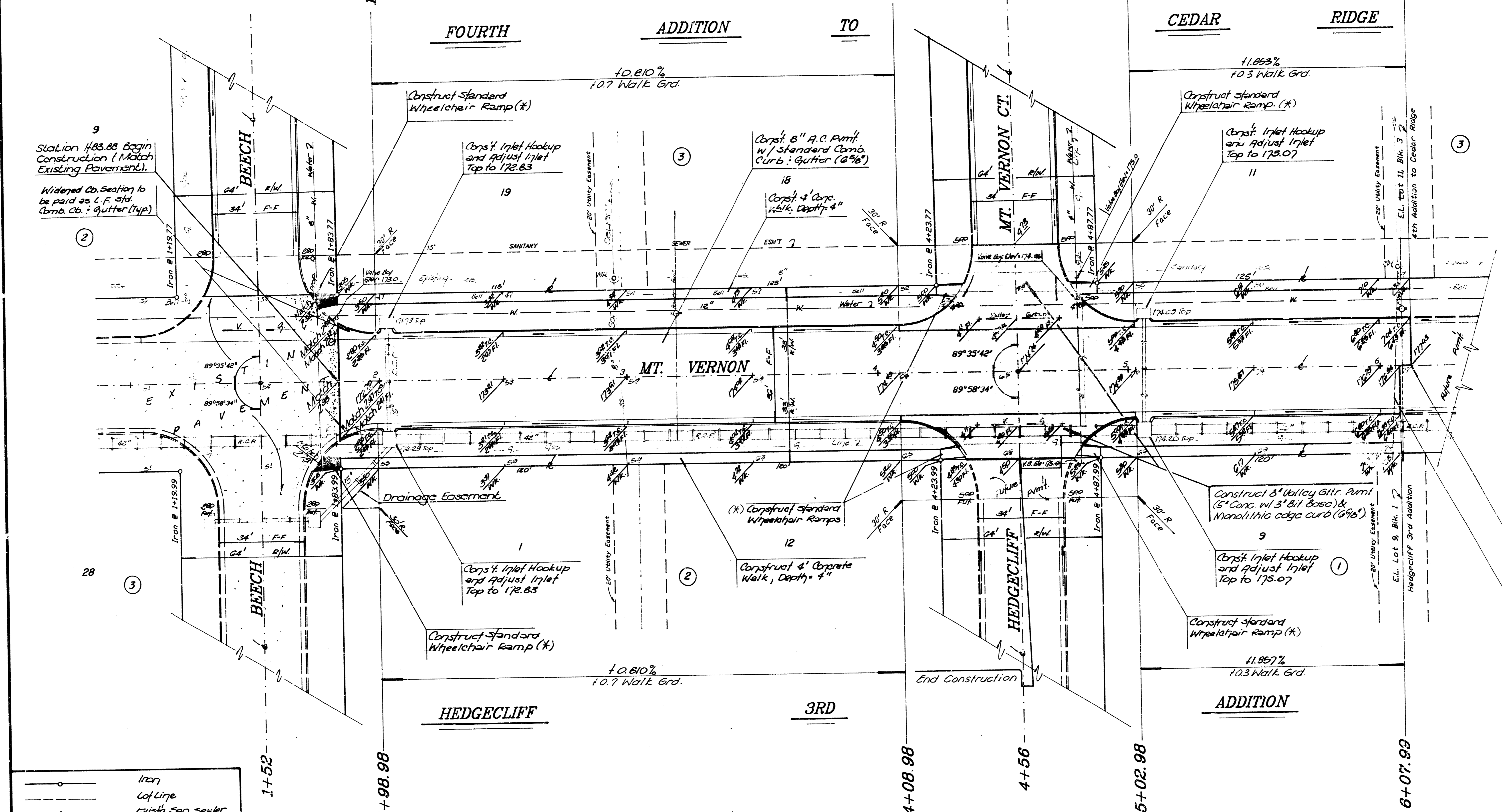
TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINTS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BIDDING PRICE FOR SQUARE YARDS 7" ASPHALTIC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

7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS
PROJECT NUMBER
472-76-245-81352-000-000-001

Bench Mark: City Dac located 47' West and 44' North of 1/4 section Corner @ Mt. Vernon and Webb Road Elevation = 162.48 City Datum.

Bench Mark: 'a' Cut in Top of Curb @ End of Return of Valley Gutter, East side of Skinner and Beech, Elevation = 173.56 City Datum.

Bench Mark: 'd' Cut in Top of Curb in Southeast Return @ Mt. Vernon and Beech, Elevation = 173.76 City Datum.



EARTHWORK QUANTITIES

Excavation	3810.4 cy.	Compacted Fill	00 cy.
+ 10%	381.0	+ 10%	1.0
Total	4191.4 cy.	Total	10.0 cy.
Subgrade Manipulation	5x		
Borrow Material	0.0 cy.		

INTERPRETATION QUANTITIES

3.5	S.Y.	Concrete Pavement
3.5	S.Y.	Asph. Conc. Pavement (6" Bituminous Base)
3.5	S.Y.	Bituminous Base
1.5	L.F.	Combined Curb and Gutter
1.5	L.F.	Monolithic Edge Curb
1.5	S.F.	Wheelchair Ramp
1.5	S.F.	4" Walk
1.5	S.Y.	Manipulation
1.5	S.Y.	Concrete and 5" Asphaltic Conc. Base

MT. VERNON
PROJECT NO. 472-76-245-81352-000-000-001

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

DESIGN: C. Schim
DRAWN: G.M.B.
APPROVED: M.B. L. (Signature)
DATE: _____
SCALE: 1" = 20'
SHEET 4 OF 12

(X) See W.C.R. Detail, SH1.3

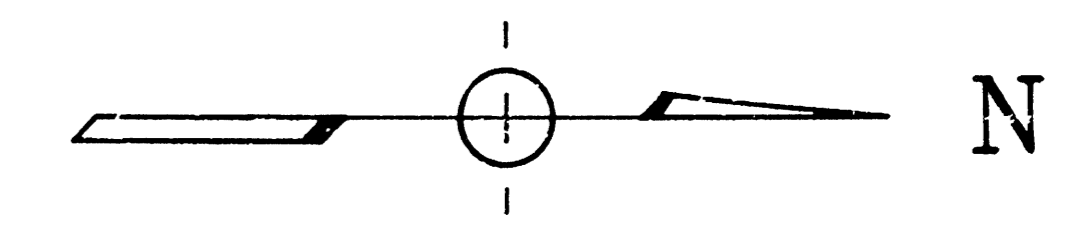
Station 6+12.77 End Construction

8" Sanitary Sewer Extension, See Sht. B

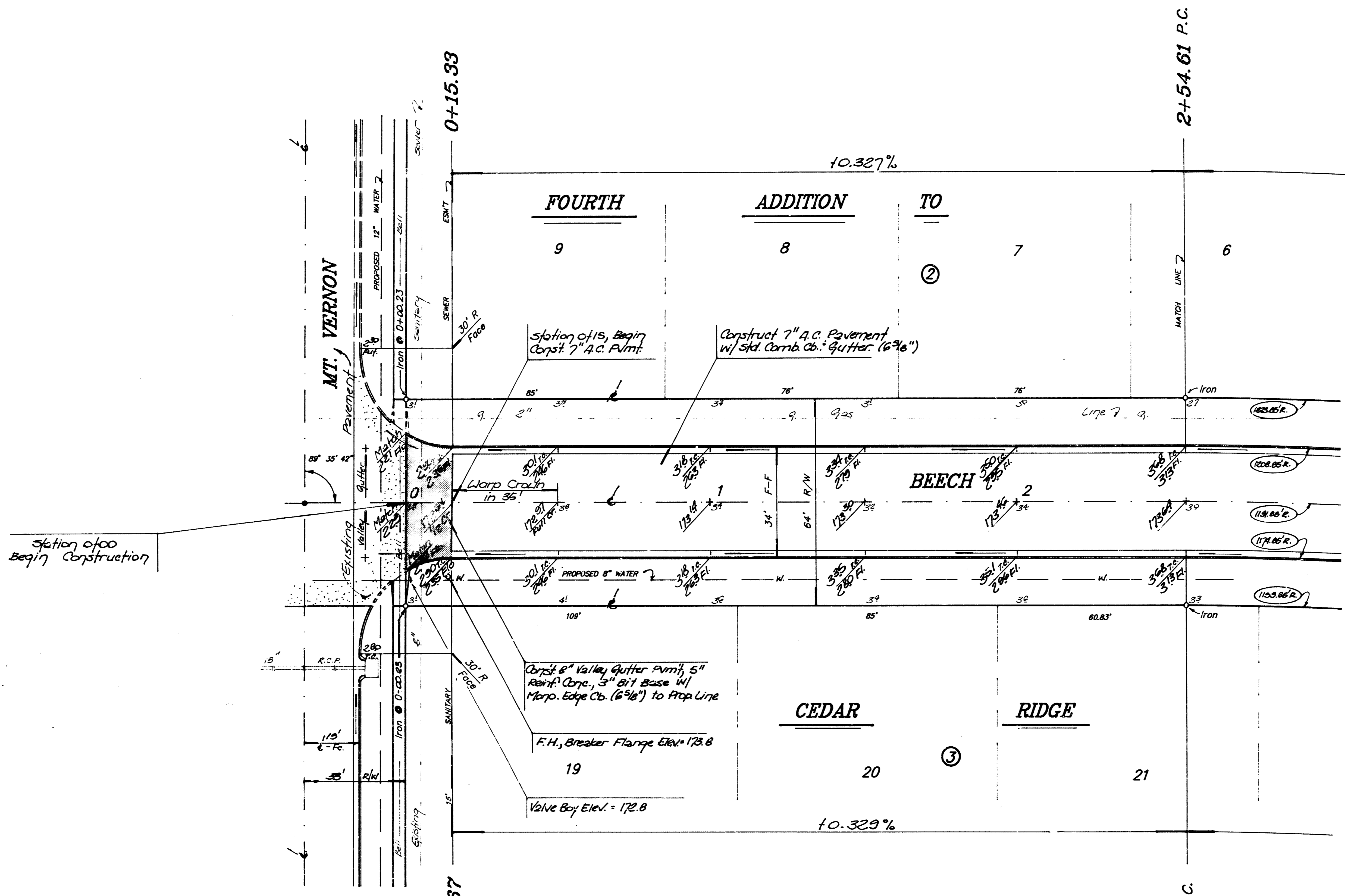
Bench Mark: City Dso located 47' West and 44' North of 1/4 Section Corner @ Mt. Vernon and Webb Road Elevation = 182.48 City Datum.

Bench Mark: "G" Cut in Top of Curb @ End of Return of Valley Gutter, East side of Skinner @ Beech, Elevation = 173.50 City Datum.

Bench Mark: "D" Cut in Top of Curb in Southeast Return @ Mt. Vernon and Beech, Elevation = 173.76 City Datum.



SCALE: 1" = 20'



• INTERSECTION QUANTITIES •

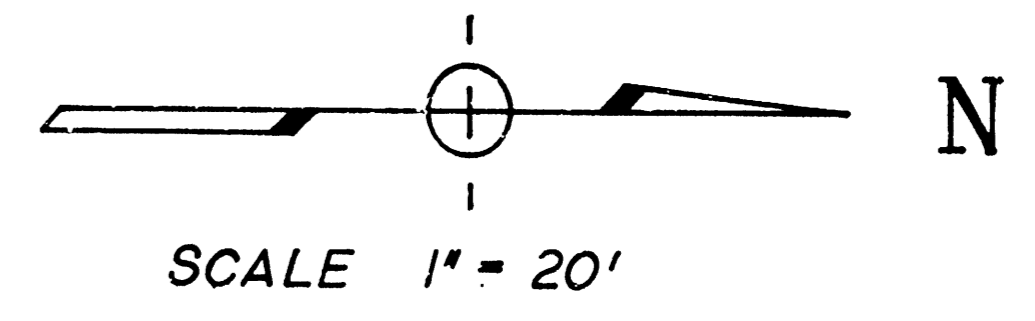
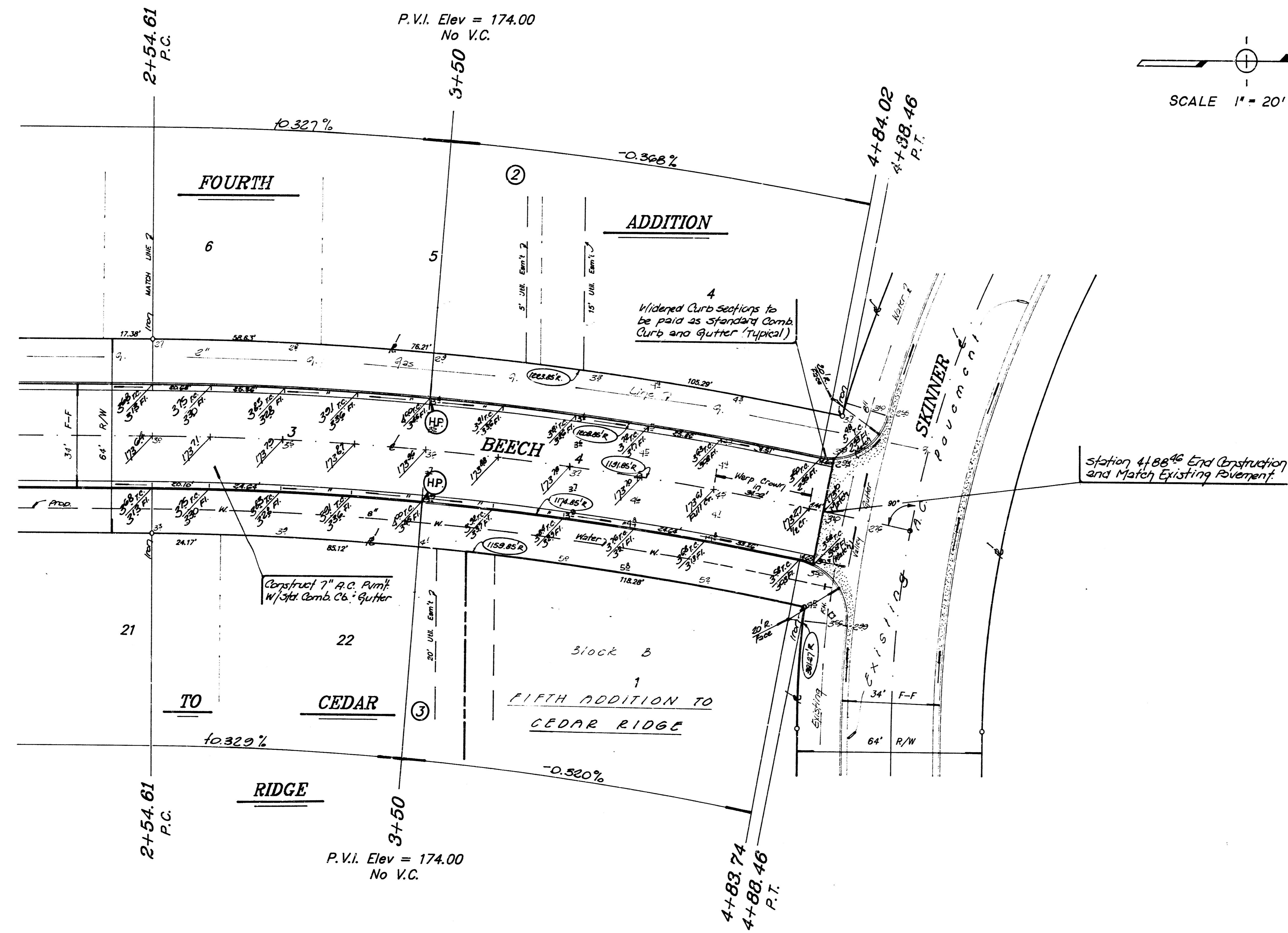
SY	Concrete Pavement
SY	Asphaltic Conc. Pavement (Aluminous Base)
SY	Bituminous Base
LF	Combined Curb & Gutter
LF	Monolithic Edge Curb
SF	4" Wheelchair Ramp
SF	4" Walk
CY	Excavation
CY	Compacted Fill
Lbs.	Reinforcing Steel
SY	Manipulation
Tons	Lime or Cement
Q2B	Valley Gtr. 6" Concrete & 3" Asphaltic Conc. Base

BEECH				REV.
PROJECT NO. 472-76-245-81352-000-000-001				
BAUGHMAN COMPANY P. A.				SHEET
SURVEYING & ENGINEERING				5
316/282-7271 • 315 ELLIS • WICHITA, KANSAS 67211				
DESIGN	DRAWN	APPROVED	DATE	SCALE
C. Bohm	D.M.H.	U.B. Wooten		1" = 20'
				OF 12

Bench Mark: City Disc located 47' West and 44' North of 1/4 Section Corner @ Mt. Vernon and Webb Road. Elevation = 183.48 City Datum.

Bench Mark: "1" Cut in Top of Curb @ End of Return of Valley Gutter, East side of Skinner; Beech, Elevation = 173.65 City Datum.

Bench Mark: "2" Cut in Top of Curb in Southeast Return @ Mt. Vernon and Beech Elevation = 173.76 City Datum.



CURVE DATA BASED ON CENTER LINE

Radius = 1191.85' Tangent = 117.3' L Chord = 233.48' Arc = 233.85'
 Del./foot = 0.024037° Delta = 11° 14' 31"

Ctr. Line Station	Arc Length	Chord Lengths		Deflection Angle	Total Deflection Angle
		0' Left of Face	0' Right of Face		
2+54.61 P.C.	—	—	—	0° 00' 00"	0° 00' 00"
+75	20.39	20.82	19.98	0° 29' 24"	0° 29' 24"
+100	25	25.52	24.48	0° 36' 04"	1° 05' 28"
+125	25	25.52	24.48	0° 36' 03"	1° 41' 31"
+150	25	25.52	24.48	0° 36' 04"	2° 17' 35"
+175	25	25.52	24.48	0° 36' 03"	2° 53' 38"
+200	25	25.52	24.48	0° 36' 03"	3° 29' 41"
+225	25	25.52	24.48	0° 36' 03"	4° 05' 44"
+250	25	25.52	24.48	0° 36' 03"	4° 41' 47"
+275.74	33.74	—	33.03	0° 48' 40"	5° 30' 27"
+300.02	0.28	34.73	—	0° 00' 25"	5° 30' 52"
+324.46 P.T.	4.44	4.53	4.63	0° 06' 24"	5° 37' 16"

BEECH

PROJECT NO. 472-76-245-81352-000-000-001

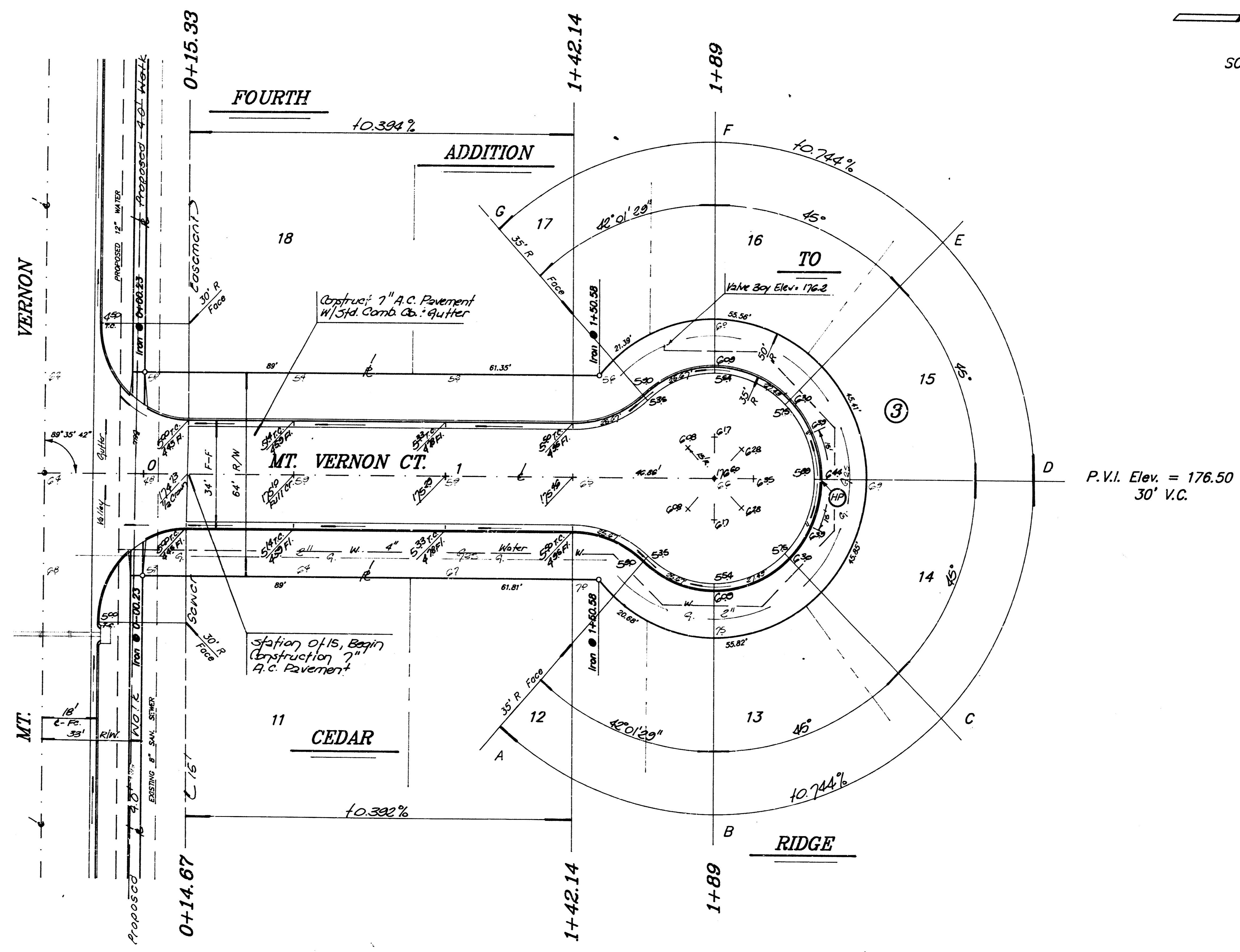
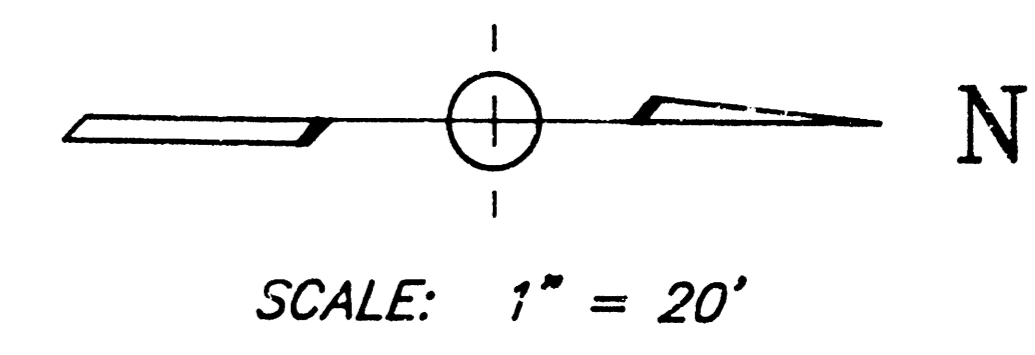
BAUGHMAN COMPANY P. A.
 SURVEYING & ENGINEERING
 316/282-7271 • 315 ELLIS • WICHITA, KANSAS 67211

DESIGN C. Bohm	DRAWN D.M.H.	APPROVED A.S.L. Loden	DATE	SCALE 1" = 20'	REV. 12
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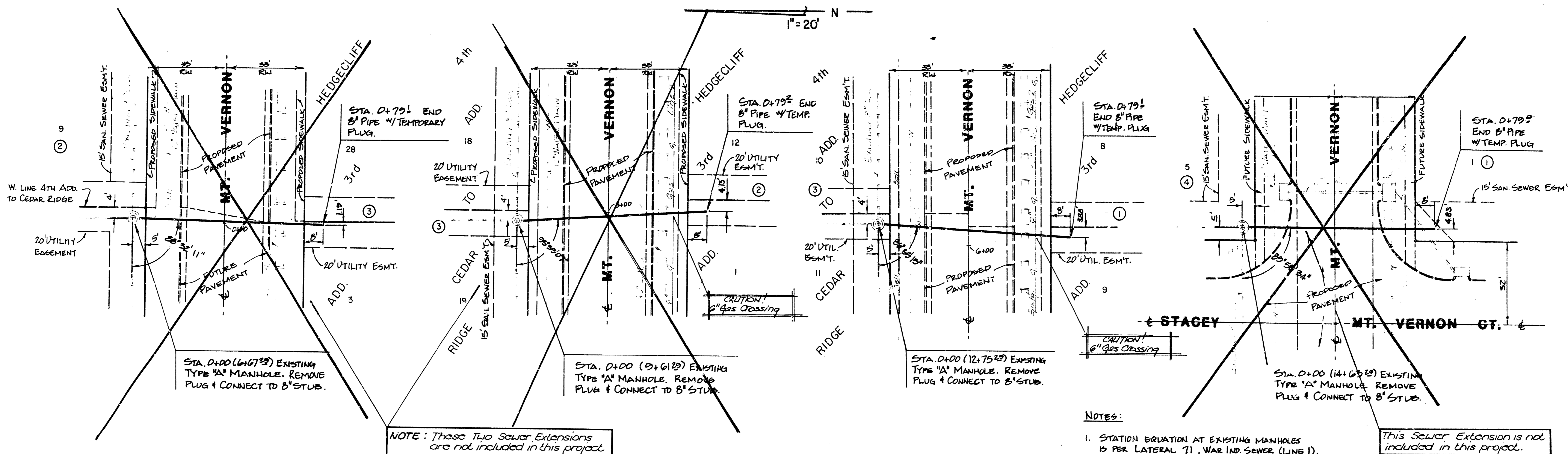
Bench Mark: City Disc Located 47' West and 44' North of 1/4 Section Corner @ Mt. Vernon: Webb Road. Elevation: 182.48 City Datum.

Bench Mark: "2" Cut in Top of Curb @ End of Return of Valley Gutter East side of Skinner: Beech. Elevation: 178.50 City Datum.

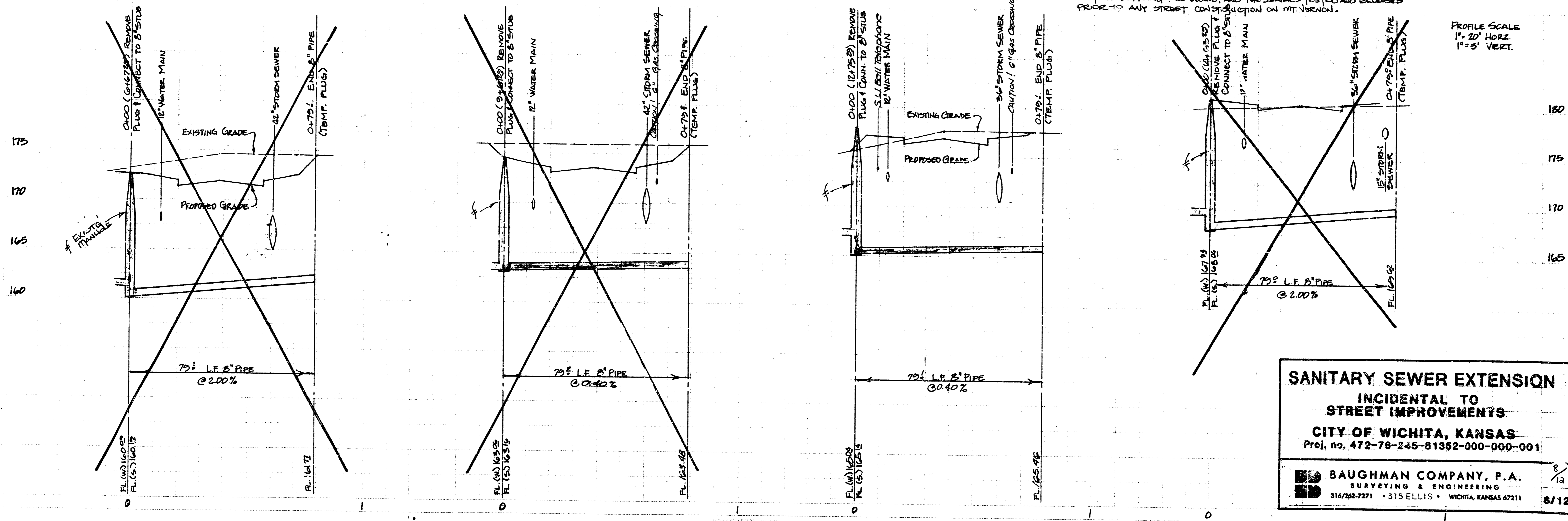
Bench Mark: "2" Cut in Top of Curb in Southeast Return @ Mt. Vernon and Beech. Elevation: 178.76 City Datum.



MT. VERNON CT.				
PROJECT NO. 472-76-245-81352-000-000-001				
BAUGHMAN COMPANY P. A.				
SURVEYING & ENGINEERING				
316/282-7271 • 315 ELLIS • WICHITA, KANSAS 67211				
DESIGN	DRAWN	APPROVED	DATE	SCALE
C. Bohm	D.M.H.	N.S. Loder		1" = 20'
				SHEET 7 OF 12



- NOTES:**
1. STATION EQUATION AT EXISTING MANHOLES IS PER LATERAL 71, WAR IND. SEWER (LINE 1).
 2. ALL PIPES SHALL BE PLUGGED PER CITY OF WICHITA STD. SPECIFICATIONS.
 3. THE THREE SANITARY SEWER EXTENSIONS ARE TO BE INSTALLED. THE TRENCHES BACKFILLED AND COMPACTED TO STANDARDS TO INSURE THAT NO SETTLING OR SINKING OCCURS, AND THE SEWERS TESTED AND RELEASED PRIOR TO ANY STREET CONSTRUCTION ON MT. VERNON.

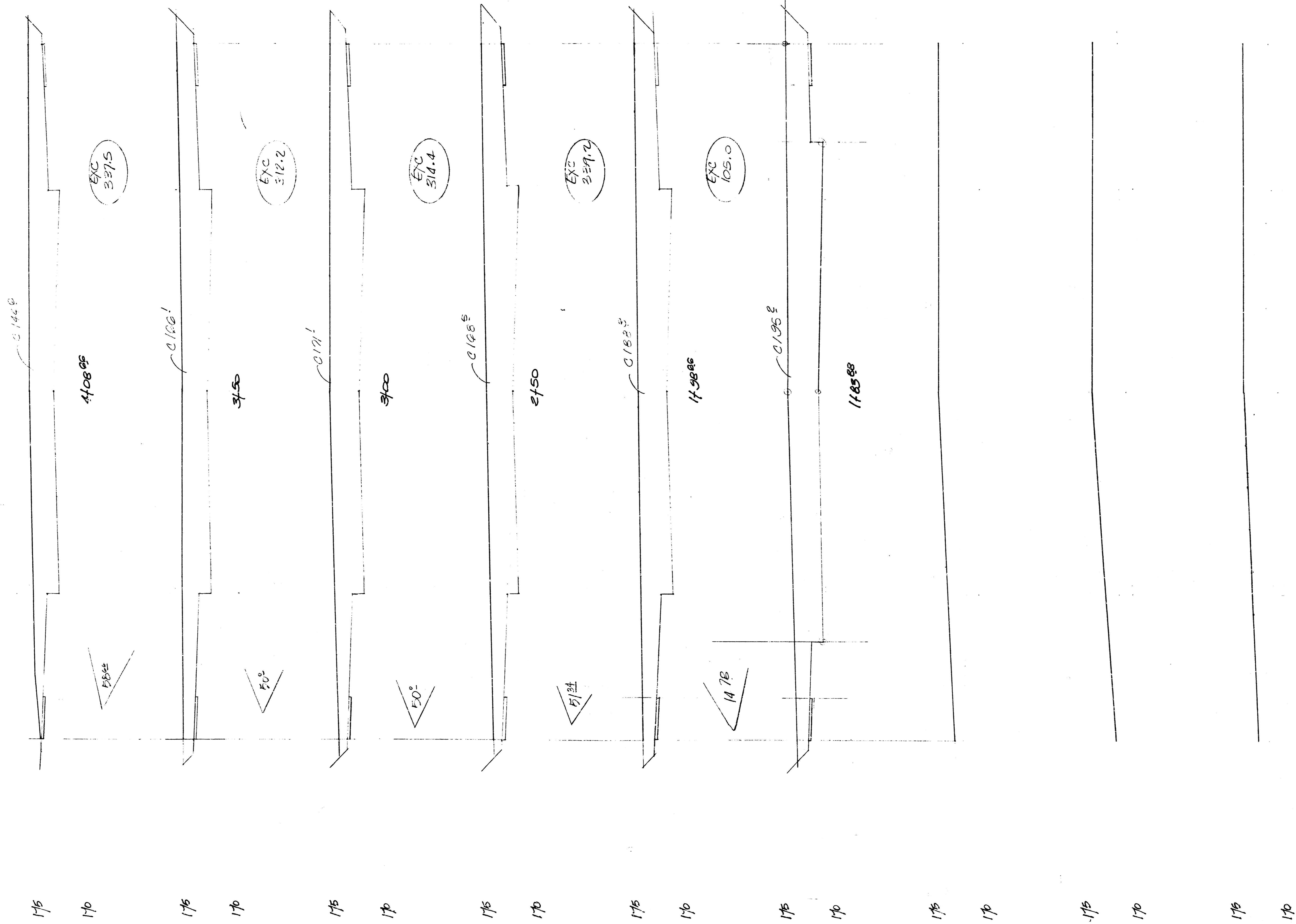


**SANITARY SEWER EXTENSION
INCIDENTAL TO
STREET IMPROVEMENTS
CITY OF WICHITA, KANSAS**

Proj. no. 472-78-245-81352-000-001

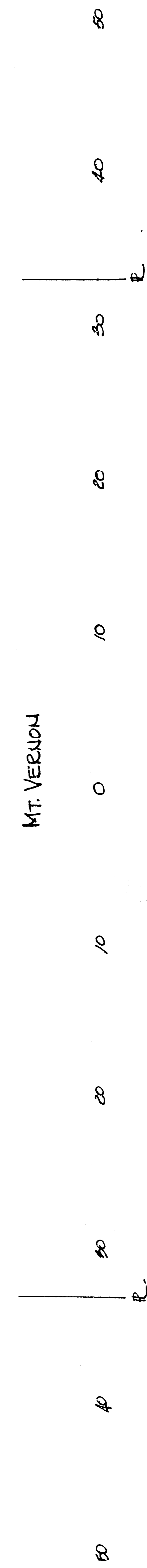
BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
314/282-7271 • 315 ELLIS • WICHITA, KANSAS 67211

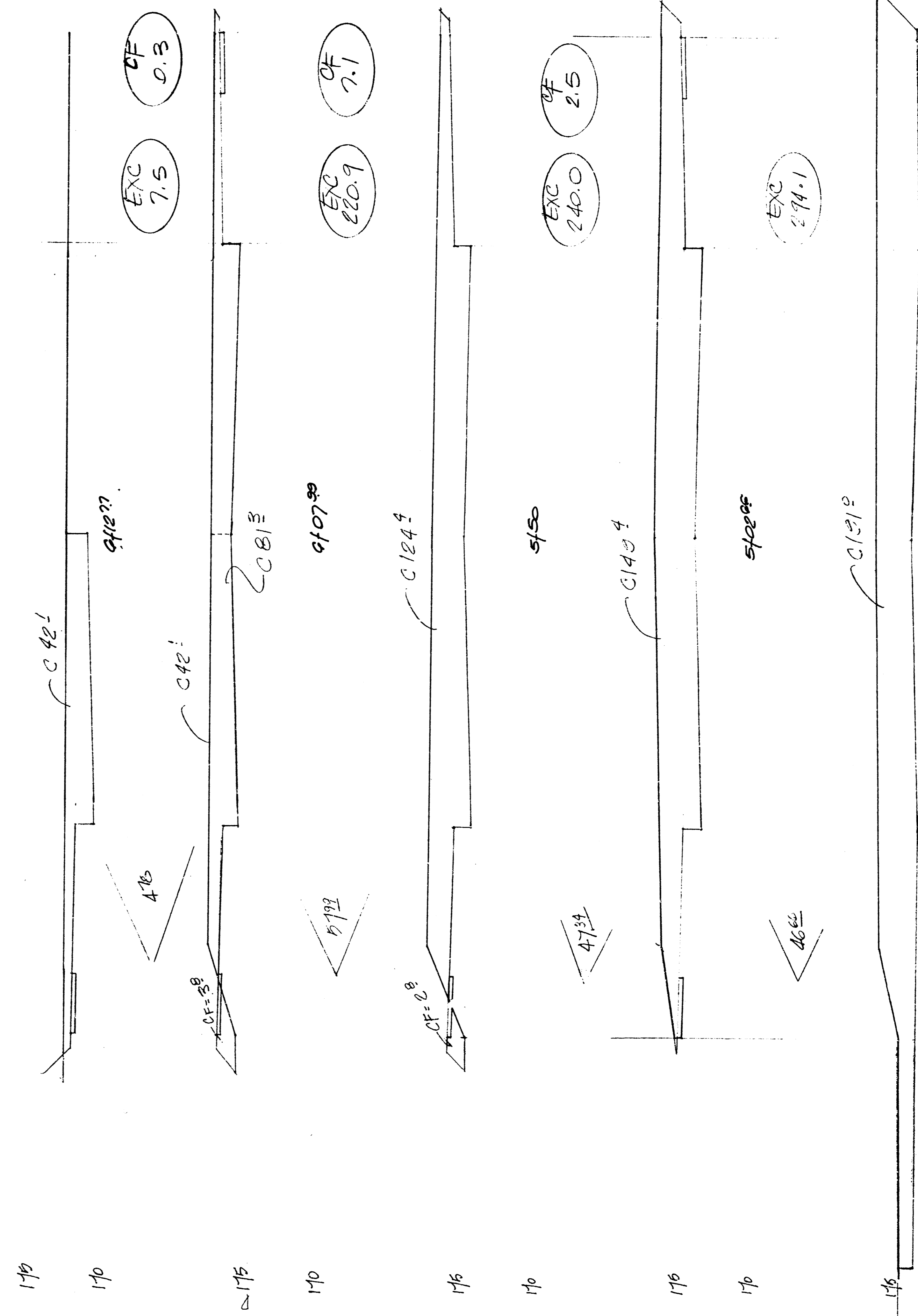
8/12



EARTHWORK TOTALS
 Exc. = 3810.4 Cubic Yds
 CF = 9.9 Cubic Yds
 CF = 212.5 Cubic Yds

PAGE TOTALS
 Exc 1408.3 -
 CF = 0





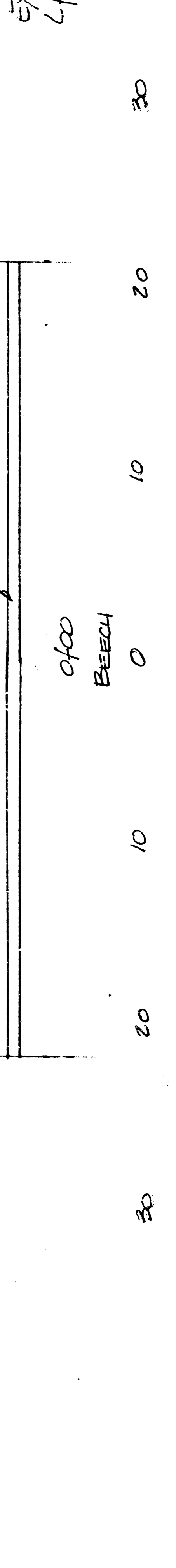
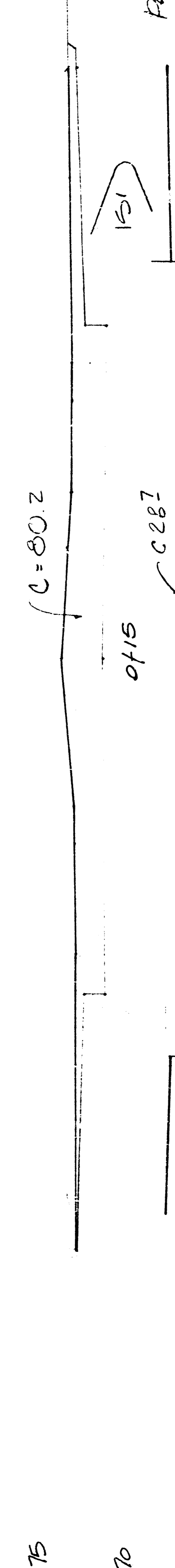
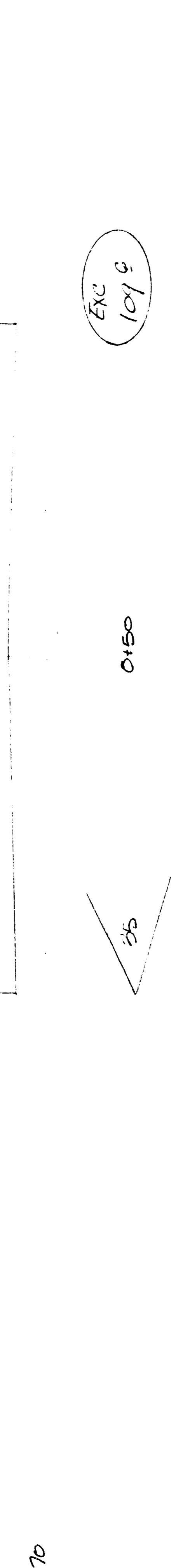
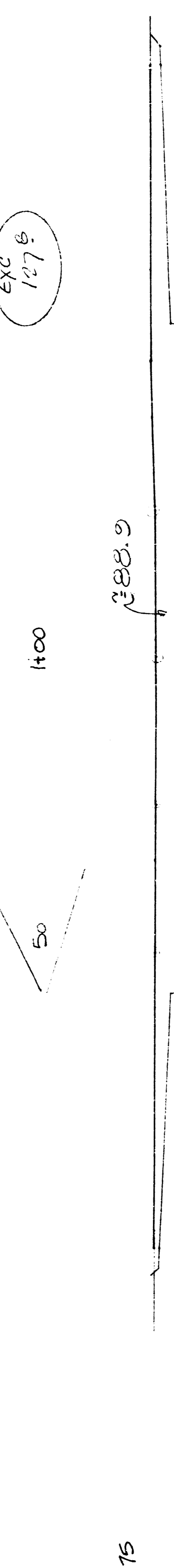
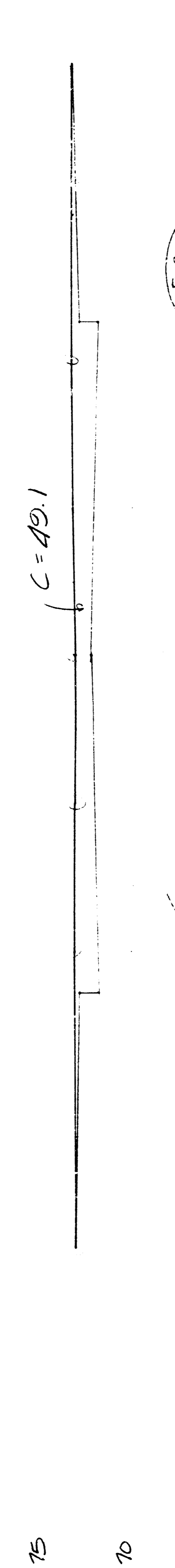
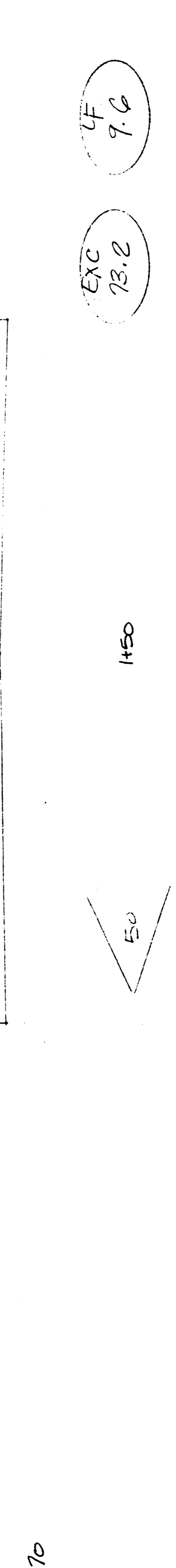
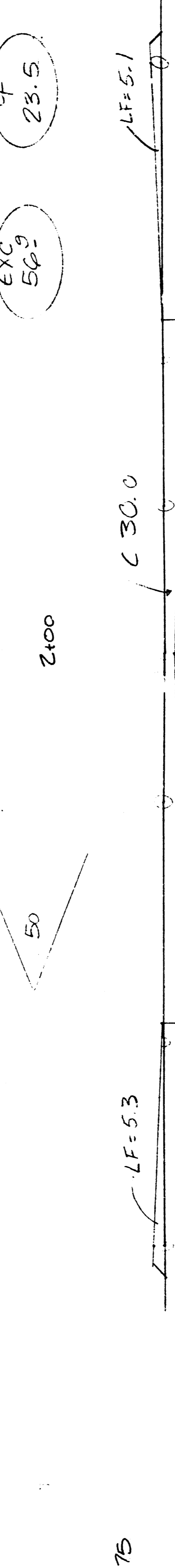
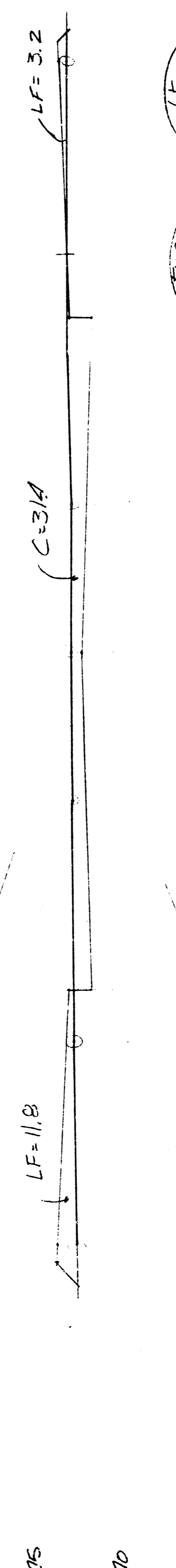
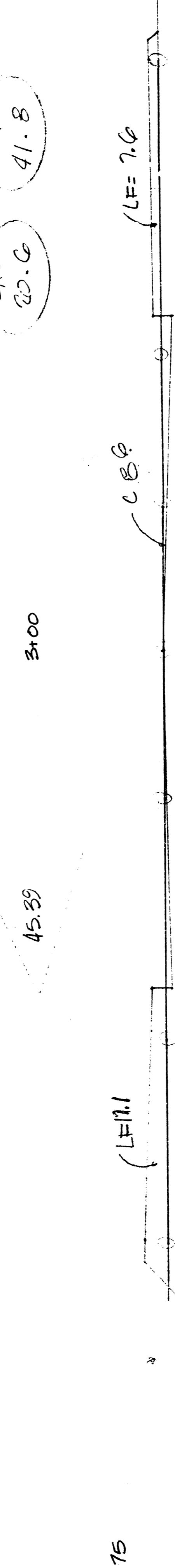
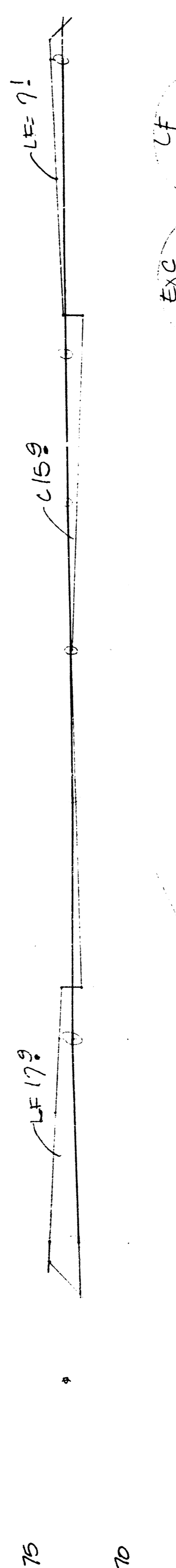
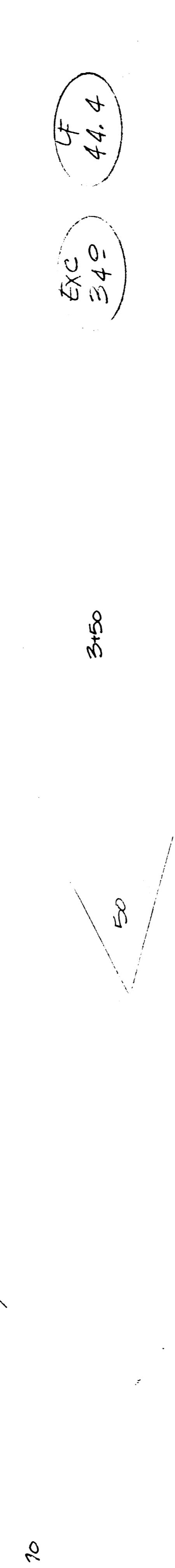
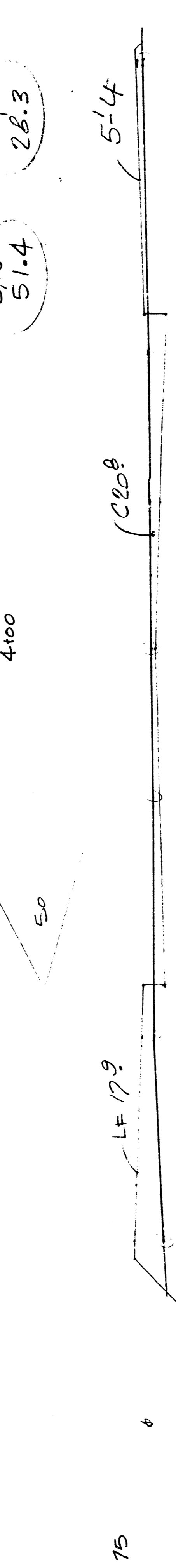
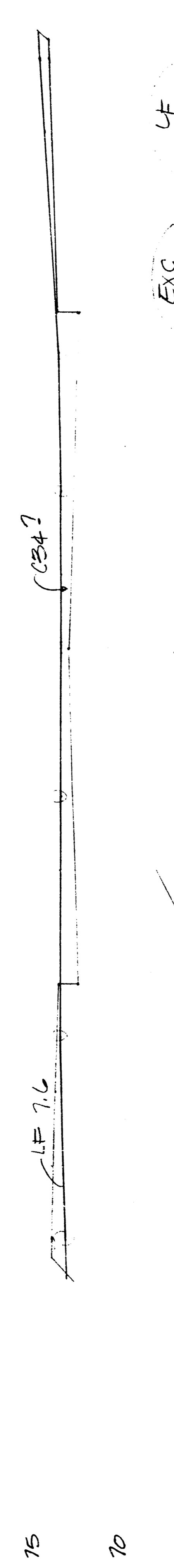
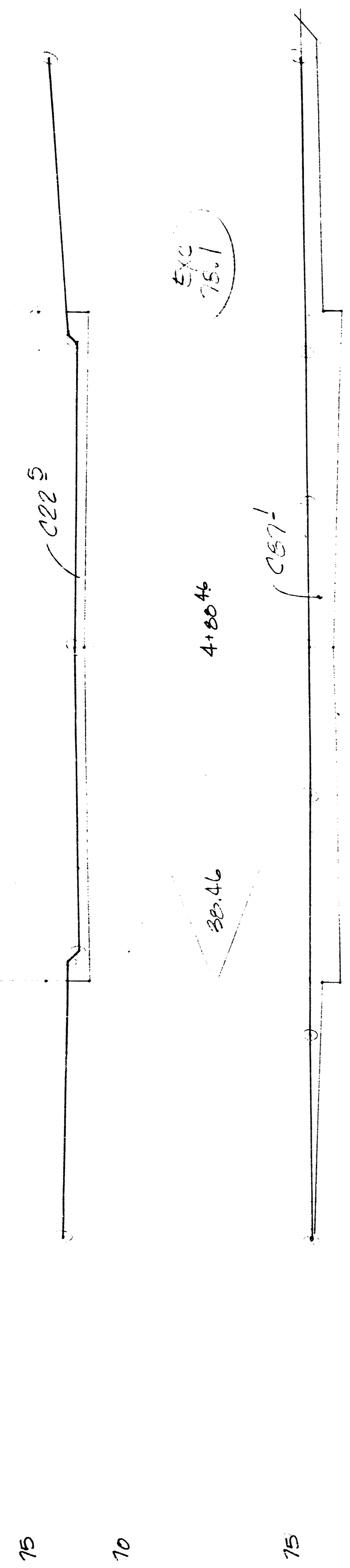
PAGE TOTALS ✓
 EXC 1056.7 cy
 OF 9.9 cy
 LF = 0

EARTHWORK
 SECTIONS
 MT. VERNON

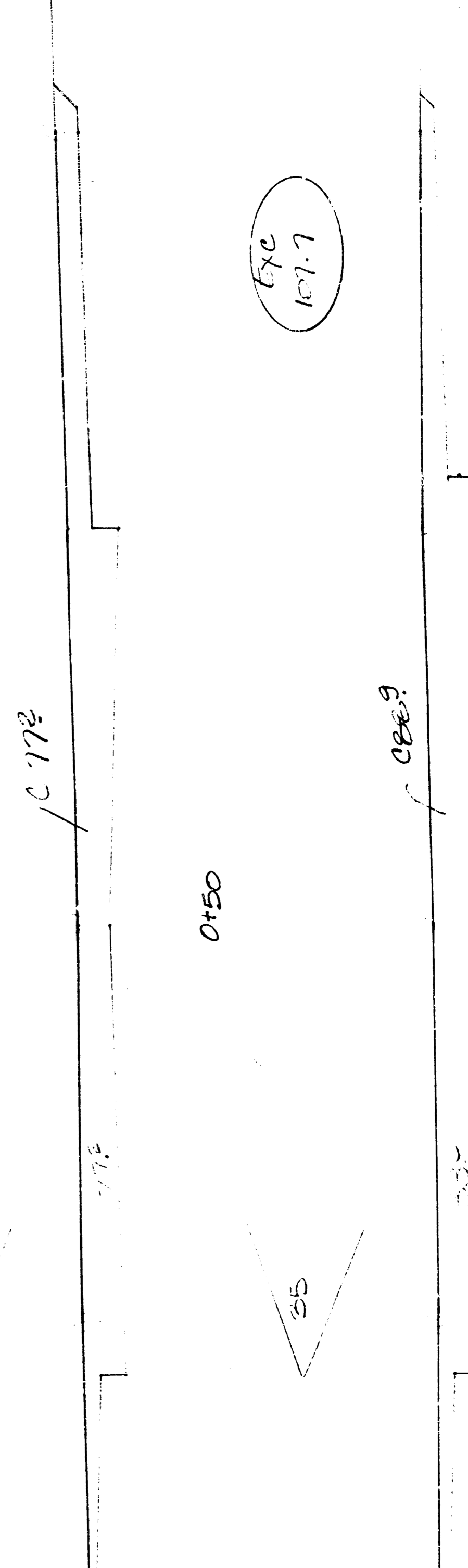
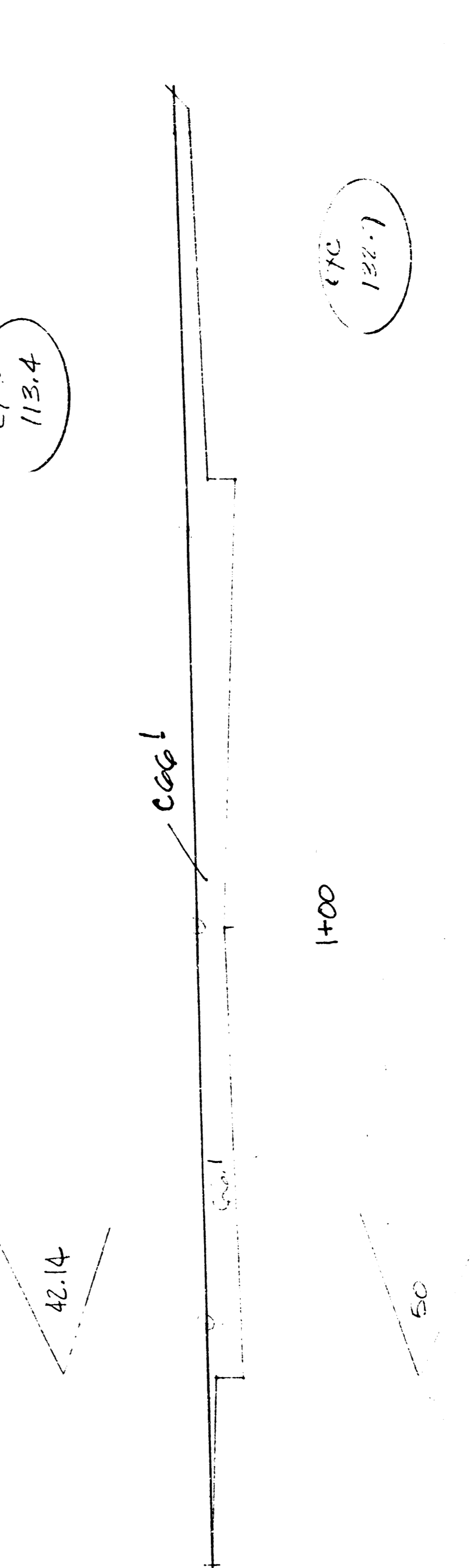
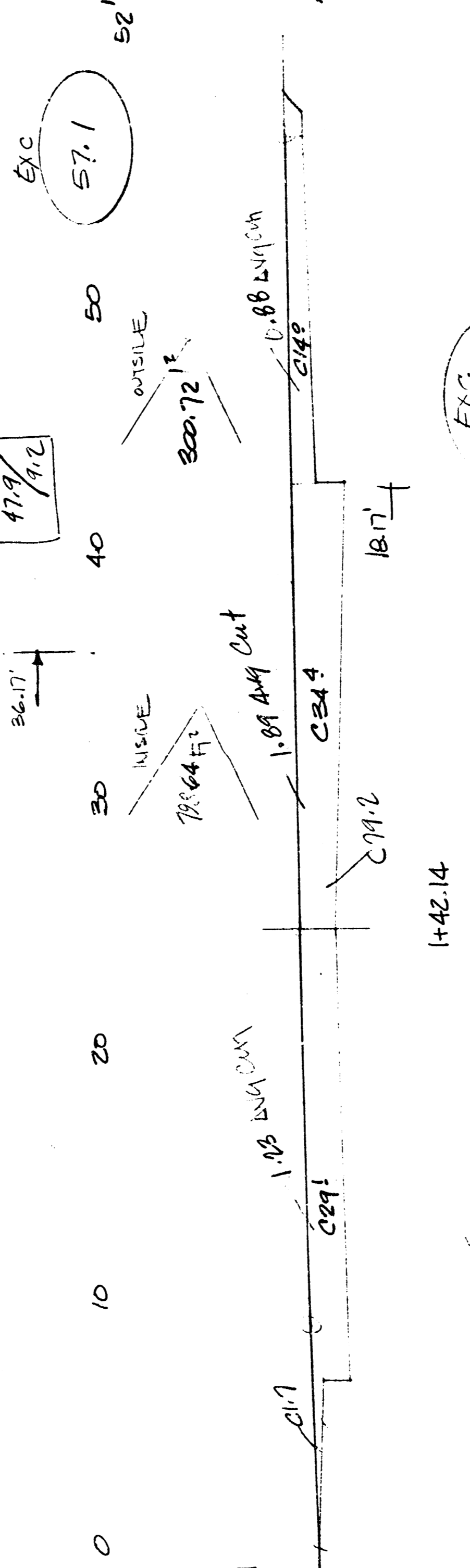
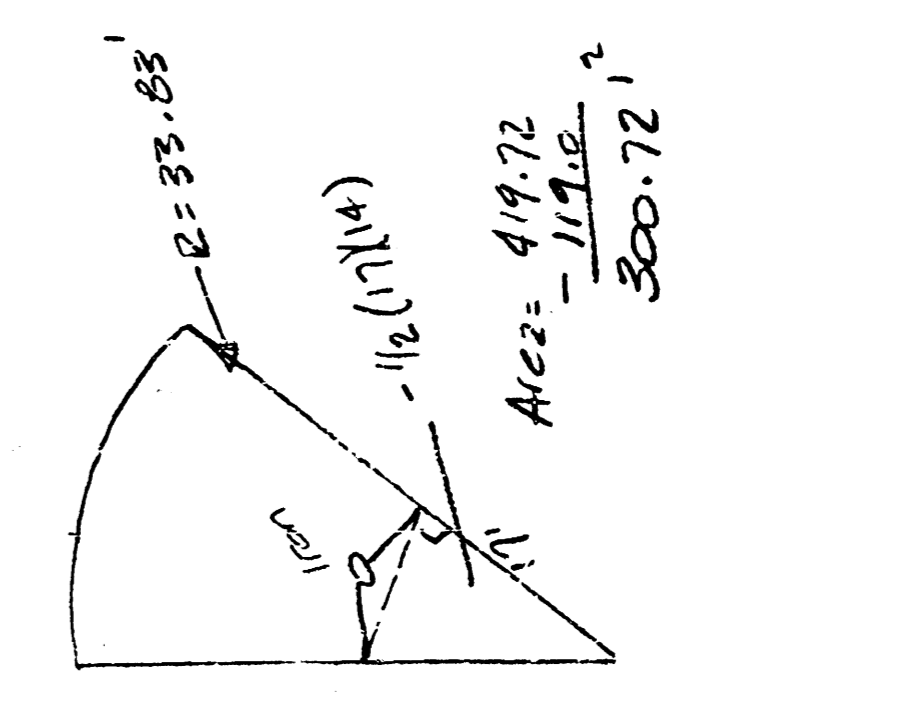
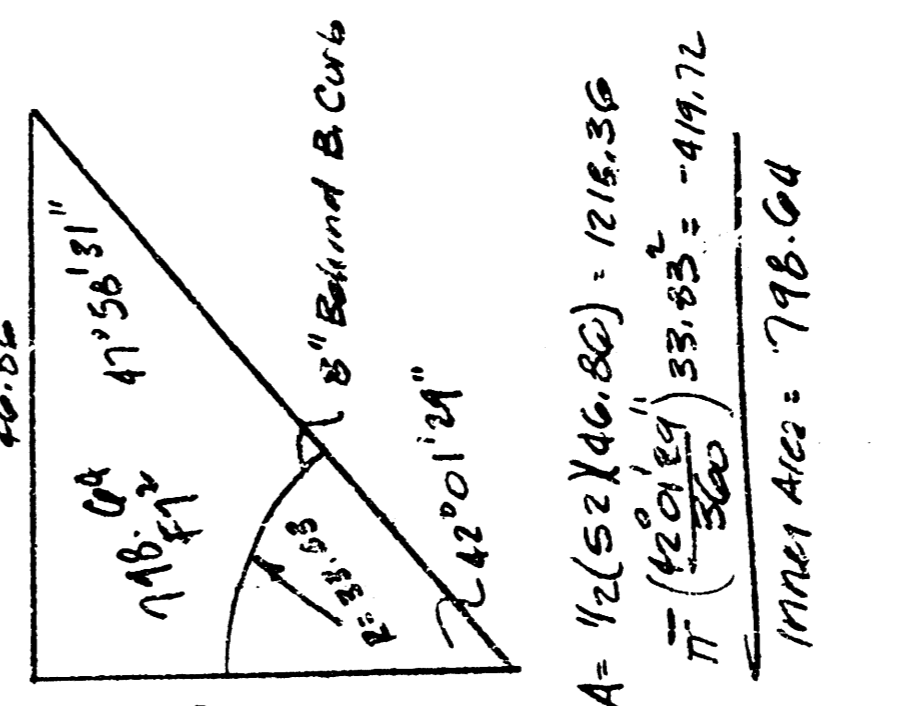
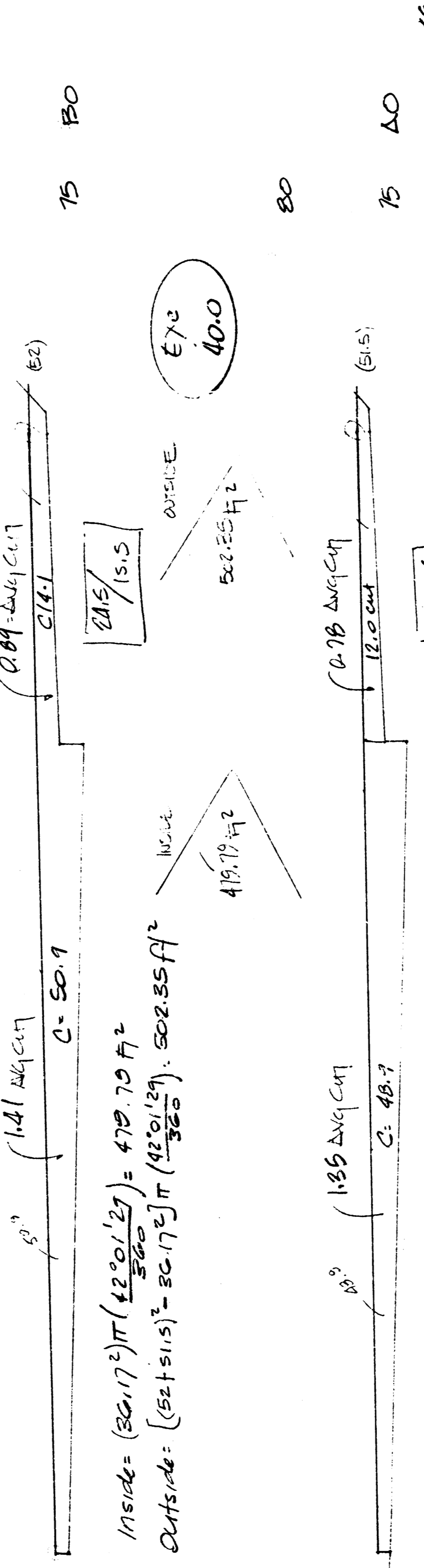
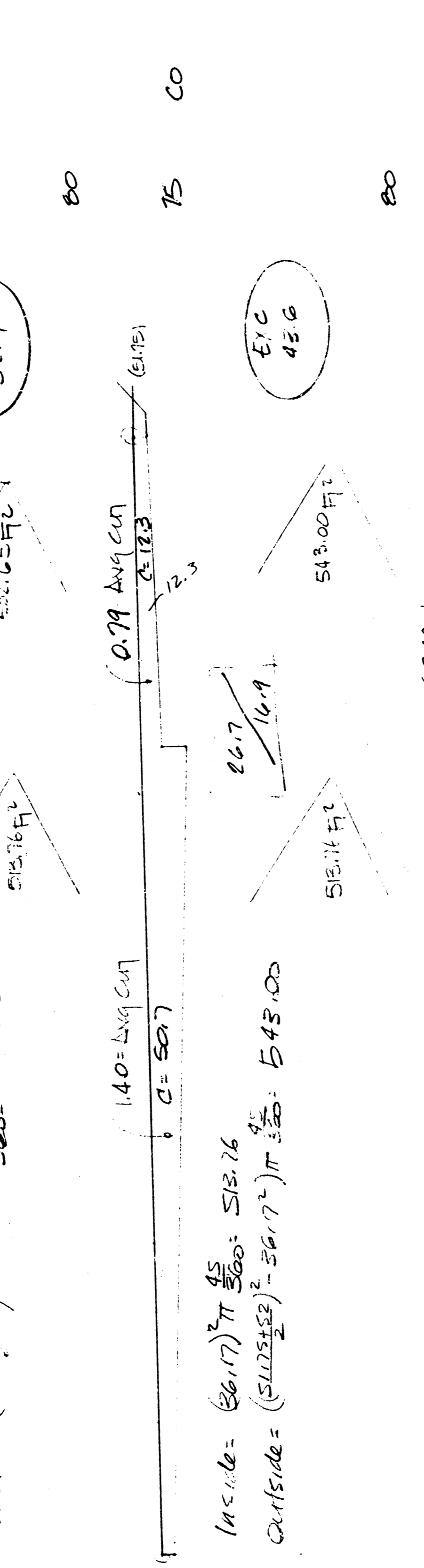
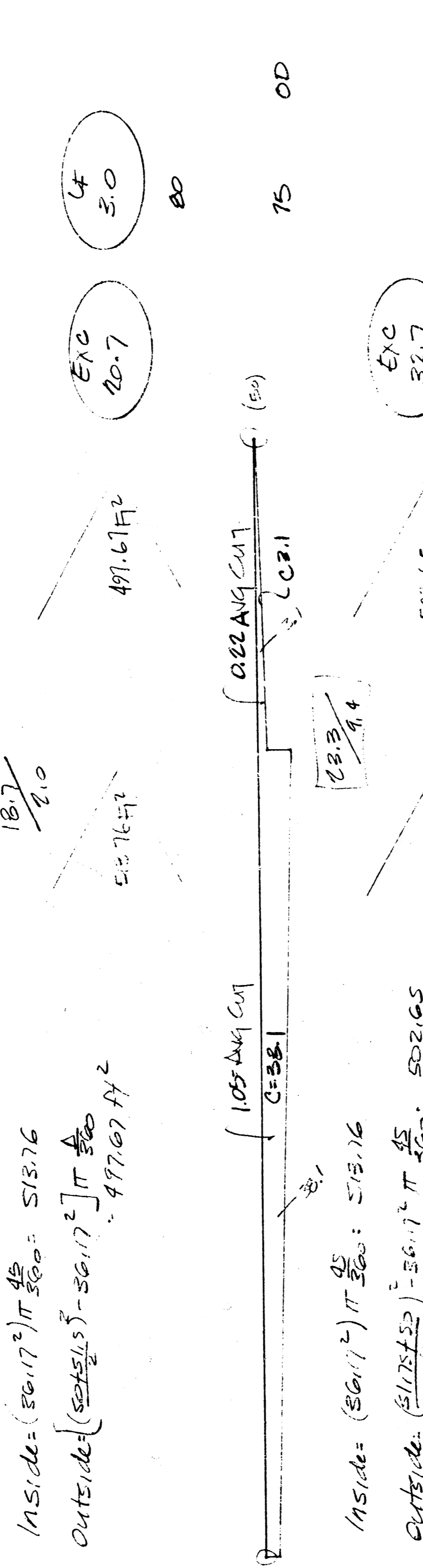
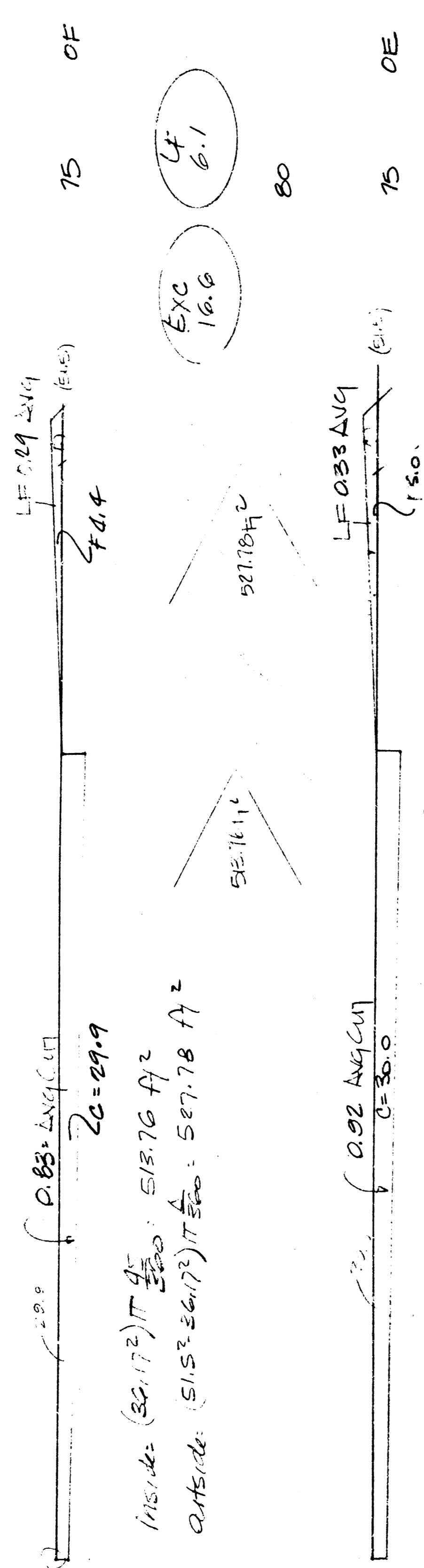
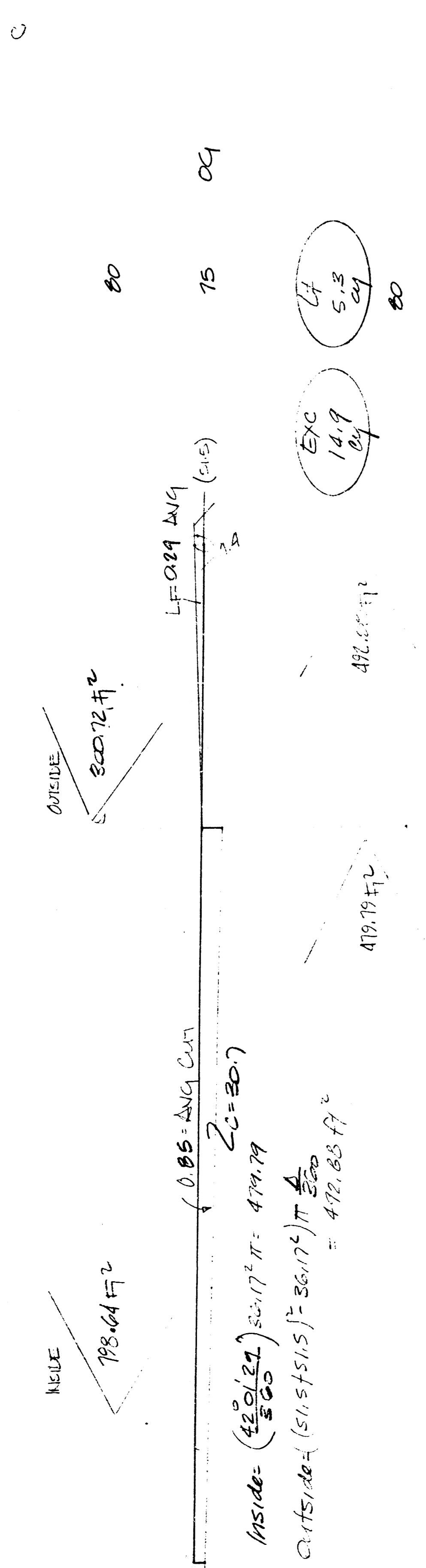
10/12 6/12

PROJECT NO. 472-76-245-81352-000-000-001

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EXC 50.3
 FILL 75.1
 EXC = 735.2 cy
 LF = 174.8 cy



PAVE TOTAL
 Exc 610.8 cy
 CF 17.7 cy

12/12
 EARTHWORK SECTIONS
 Mt. Vernon Ct.