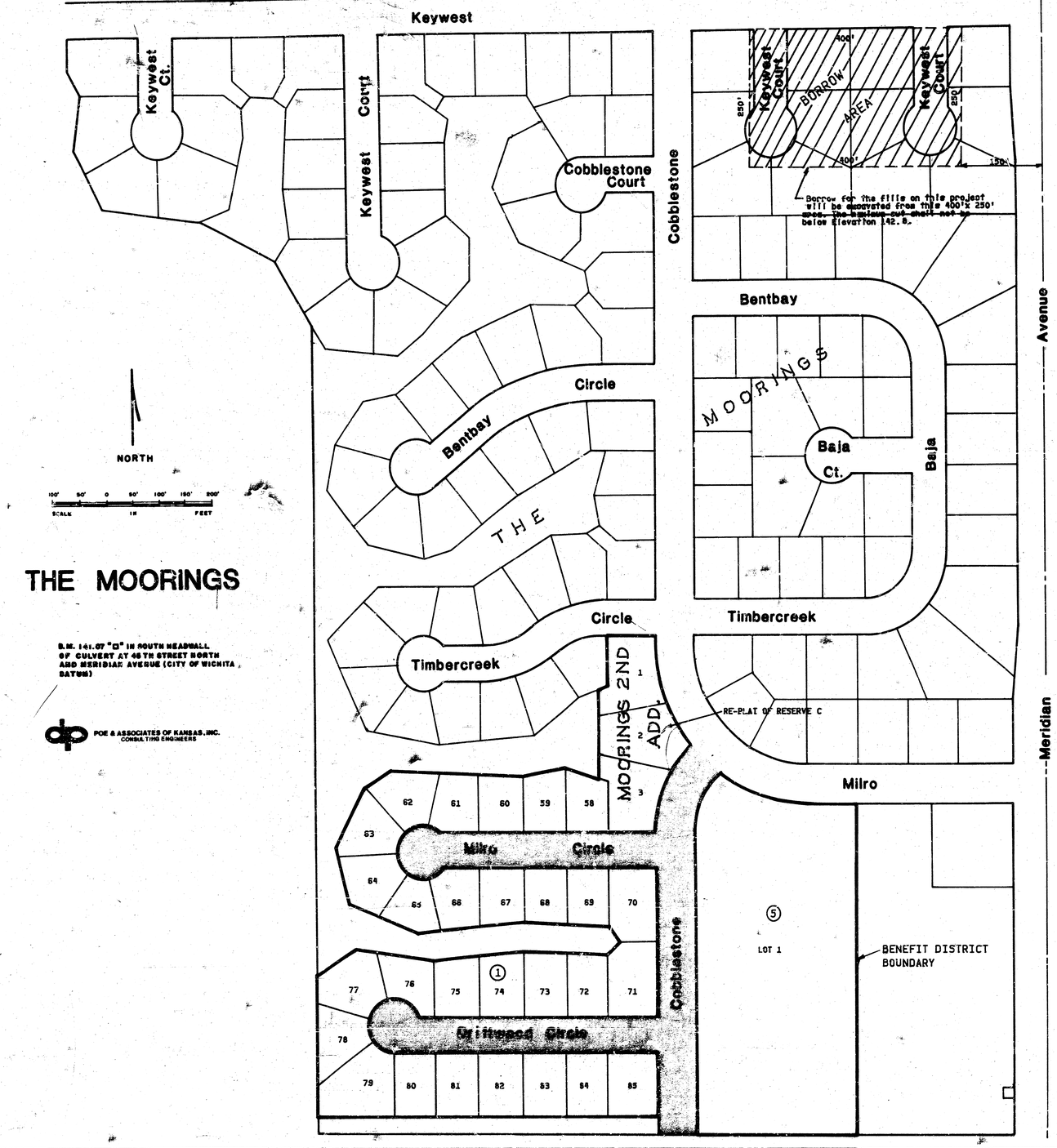


THE MOORINGS

B.M. 141.07 "D" IN SOUTH HEADWALL OF CULVERT AT 45 TH STREET NORTH AND MERIDIAN AVENUE (CITY OF WICHITA DATUM)

POE & ASSOCIATES OF KANSAS, INC.
CONSULTING ENGINEERS

STREET IMPROVEMENTS

CITY OF WICHITA, KANSAS

COBBLESTONE FROM S. LINE BLK 5 TO S. LINE OF MILRO
DRIFTWOOD CIRCLE FROM W. LINE COBBLESTONE TO AND INCL. CUL-DE-SAC
MILRO CIRCLE FROM W. LINE COBBLESTONE TO AND INCL. CUL-DE-SAC

M.E. LINDEBAK, CITY ENGINEER

PROJECT NO. 472-76-245-80599-000-000-001

SEPTEMBER 1983

SANITARY SEWER LINE AND WATER LINE CONSTRUCTION BENEATH THE PAVING SHALL BE COMPLETED AND ACCEPTED BEFORE PAVEMENT MAY BE PLACED.

INDEX

Title Sheet----------Sheet 1
Typ. 35' Pavement Details----Sheet 2
Typ. 41' Pavement Details----Sheet 3
Cobblestone----------Sheet 4 & 5
Driftwood Circle----------Sheet 6
Milro Circle----------Sheet 7
Cross-Sections----------Sheet 8-11

KENNY E. HILL LICENSED 7690 PROFESSIONAL ENGINEER KANSAS

1. EXCAVATION OF THE BORROW MATERIAL FROM THE BORROW AREA AND PLACEMENT OF THE BORROW ON THE PROJECT SHALL BE PAID AS CUBIC YARDS EXCAVATION. THE QUANTITY OF THIS EXCAVATION SHALL BE DETERMINED FROM ORIGINAL AND FINAL CROSS-SECTIONS OF THE ROADWAY.
2. NO DRIVEWAYS TO BE CONSTRUCTED AS PART OF THIS PROJECT.

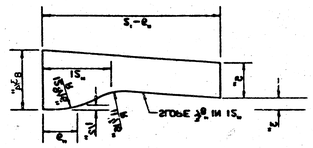
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENCED LAND SURVEYOR OR A LICENCED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

CITY OF WICHITA, KANSAS

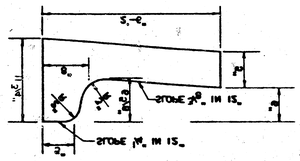
PAVEMENT WITH 6 INCH BITUMINOUS BASE
8 INCH RESIDENTIAL ASPHALTIC CONCRETE

PROJECT NUMBER
100-000-000-66098-245-17-STA

ROLL TYPE COMBINED CURB & GUTTER



COMBINED CURB & GUTTER



GENERAL NOTES

1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE LAID AS SQUARE AWAY OR 8" ASPHALTIC CONCRETE (e BITUMINOUS BASE).

2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE LAID AS SQUARE AWAY OR 6" BITUMINOUS BASE.

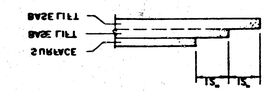
3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

4) BITUMINOUS BASE AND ASPHALTIC CONCRETE KEYING SURFACE SHALL BE PLACED WITH A RADIAL 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 LIFT AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

6) CONSTRUCTION TO BID ONLY ONE SEQUENCE INCREMENT ALTERNATE WHEN ALTERNATE MATERIALS ARE INCLUDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THAT PORTION OF THE PROJECT.

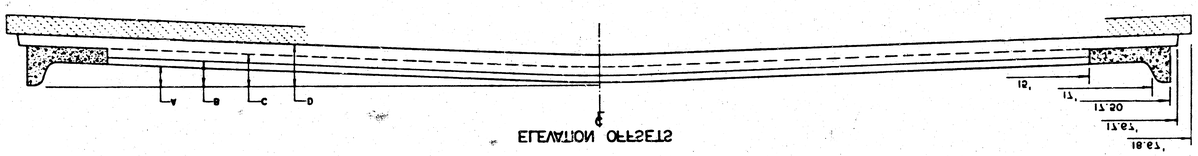
TRANSVERSE CONSTRUCTION JOINTS



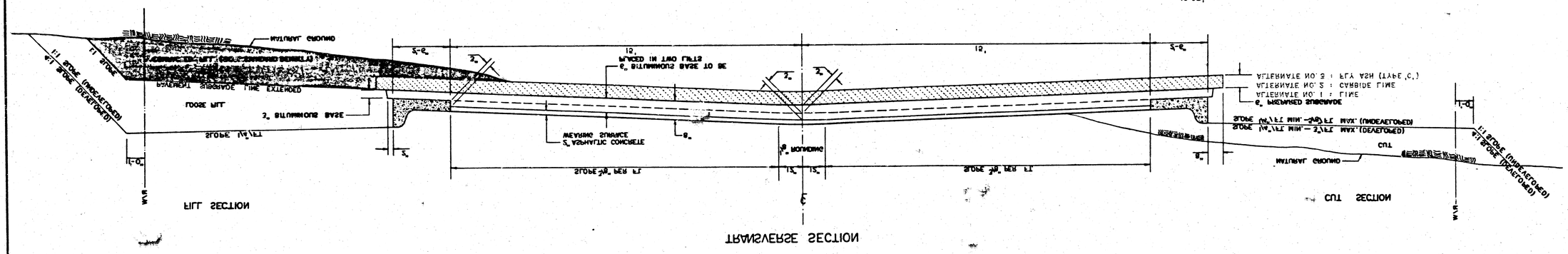
TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENT AT LOCATIONS WHERE PAVEMENT JOINT ALL CURBS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE LOCATED IN THE BID ITEM FOR SQUARE AWAY 8" ASPHALTIC CONCRETE (e BITUMINOUS BASE).

EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL.

DISTANCE FROM CENTERLINE (FT & IN)	0"	5"	9"	2'	8'-2"	10"	15"	19"	21'	23'	23'-2"	23'-8"	18'-11"
A: TOP OF CURB TO TOP OF SURFACE FILL	0.04	0.08	0.14	0.21	0.29	0.33	0.38	0.46	0.69	—	—	—	—
B: TOP OF CURB TO TOP OF MINIMUM BASE FILL	0.15	0.25	0.27	0.34	0.40	0.50	0.58	0.63	0.82	—	—	—	—
C: TOP OF CURB TO TOP OF MAXIMUM BASE FILL	0.48	0.20	0.26	0.30	0.37	0.47	0.61	0.88	0.90	0.96	0.98	0.99	—
D: TOP OF CURB TO TOP OF SQUARE AWAY	0.17	0.12	0.18	0.21	0.36	1.00	1.06	1.11	1.12	1.55	1.51	1.54	1.52



ELEVATION OFFSETS

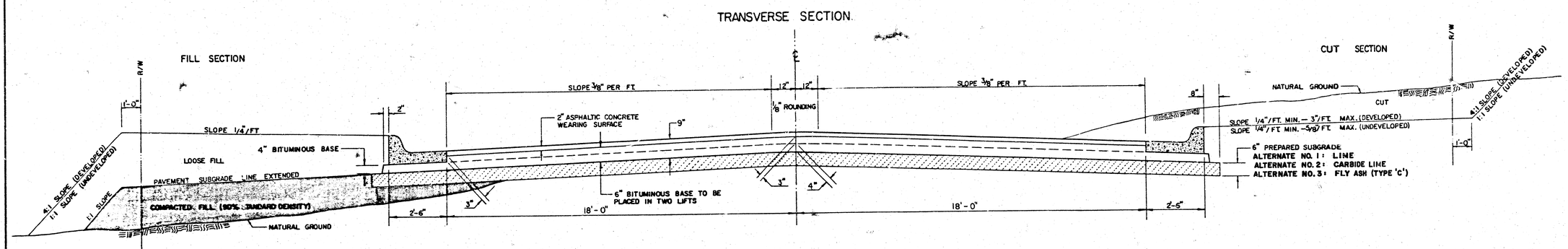


TRANSVERSE SECTION

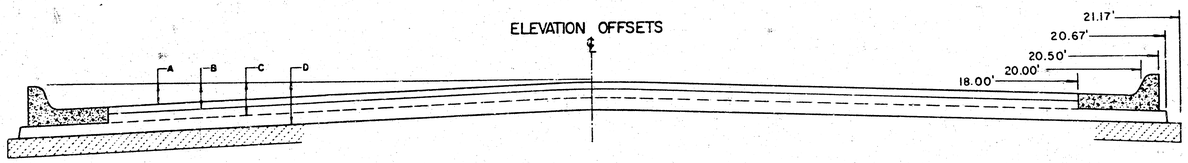
TYPICAL 32' PAVEMENT DETAILS

TYPICAL 41' PAVEMENT DETAILS

TRANSVERSE SECTION.

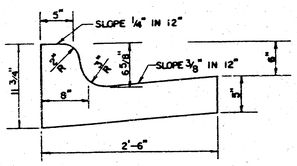


ELEVATION OFFSETS

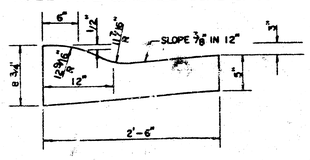


	DISTANCE FROM CENTERLINE (LT. & RT.)													
	0	2	4	6	8	10	12	14	16	18	20	20.5	20.67	21.17
A: TOP OF CURBS TO TOP OF SURFACE LIFT	-.05	-.01	.05	.11	.18	.24	.30	.36	.43	.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	.11	.16	.22	.28	.34	.40	.47	.53	.59	.65	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	.36	.41	.47	.53	.59	.65	.72	.78	.84	.90	.97	.98	.99	—
D: TOP OF CURBS TO TOP OF SUBGRADE	.69	.74	.80	.86	.92	.98	1.05	1.11	1.17	1.23	1.30	1.31	1.32	1.33

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 9" ASPHALTIC CONCRETE (7" BITUMINOUS BASE).

2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 4" BITUMINOUS BASE.

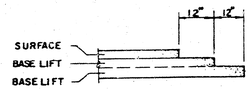
3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

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 JOINS 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 9" ASPHALTIC CONCRETE (7" BITUMINOUS BASE).

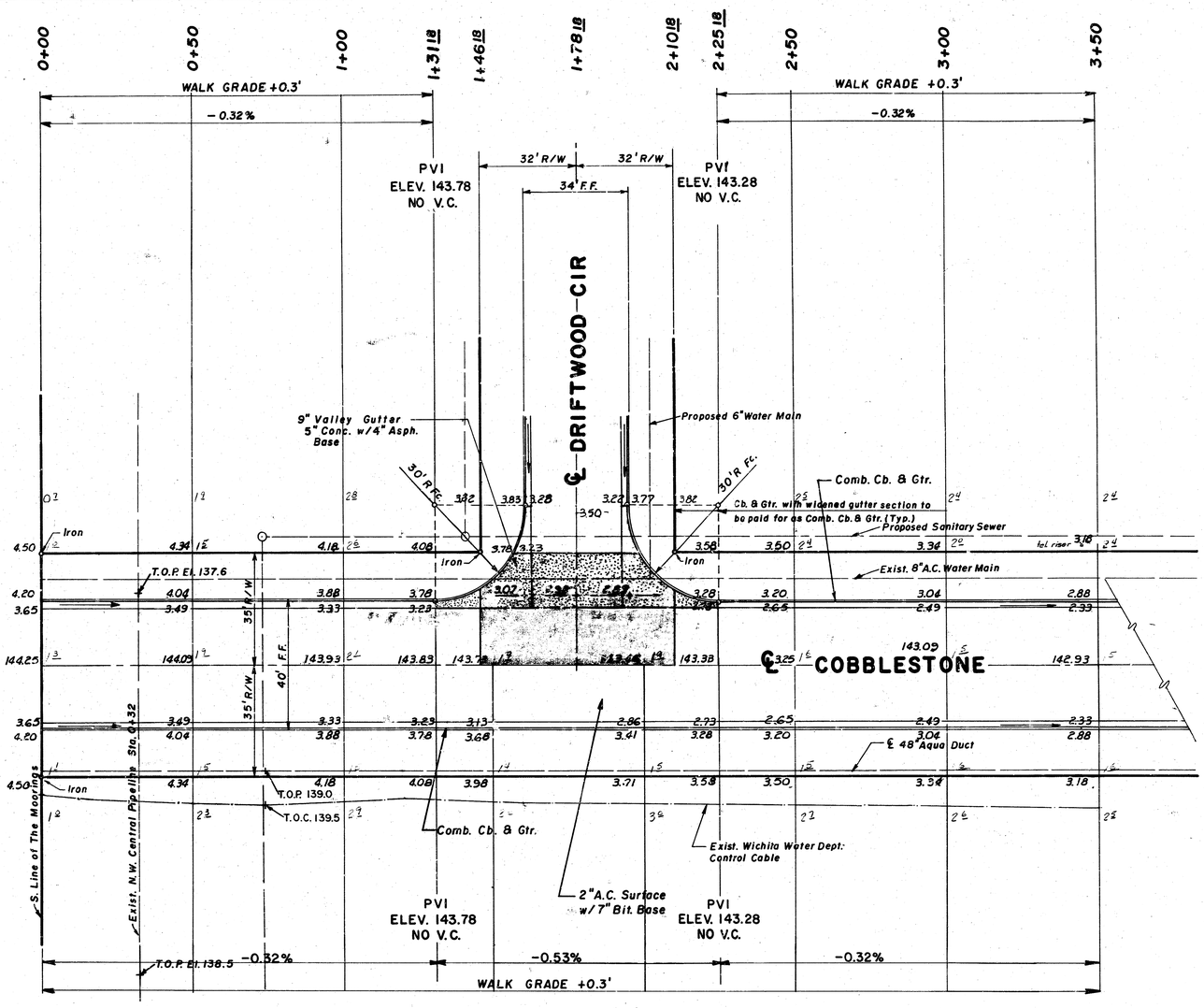
9 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 7 INCH BITUMINOUS BASE

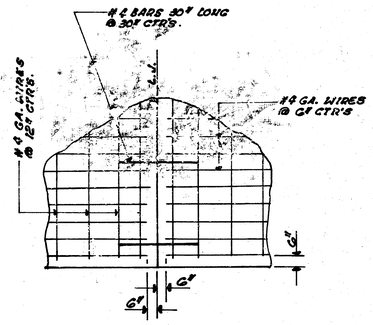
CITY OF WICHITA, KANSAS

PROJECT NUMBER

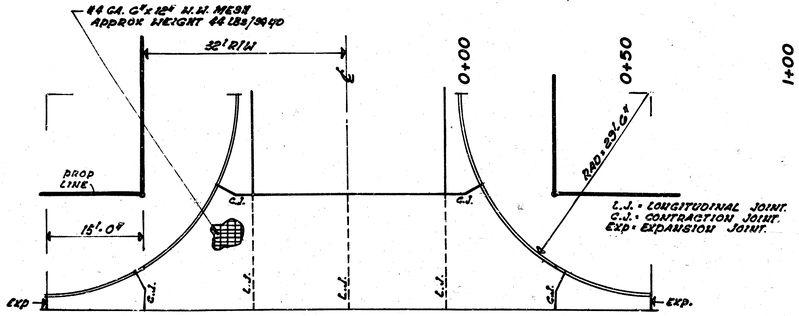
472-76-245-80599-000-000-001

B.M. "H" Cut in South Headwall of Culvert at 45th and Meridian Elevation 141.07 City Datum





TYPICAL - WELDED WIRE MESH
FOR VALLEY GUTTER.



VALLEY GUTTER

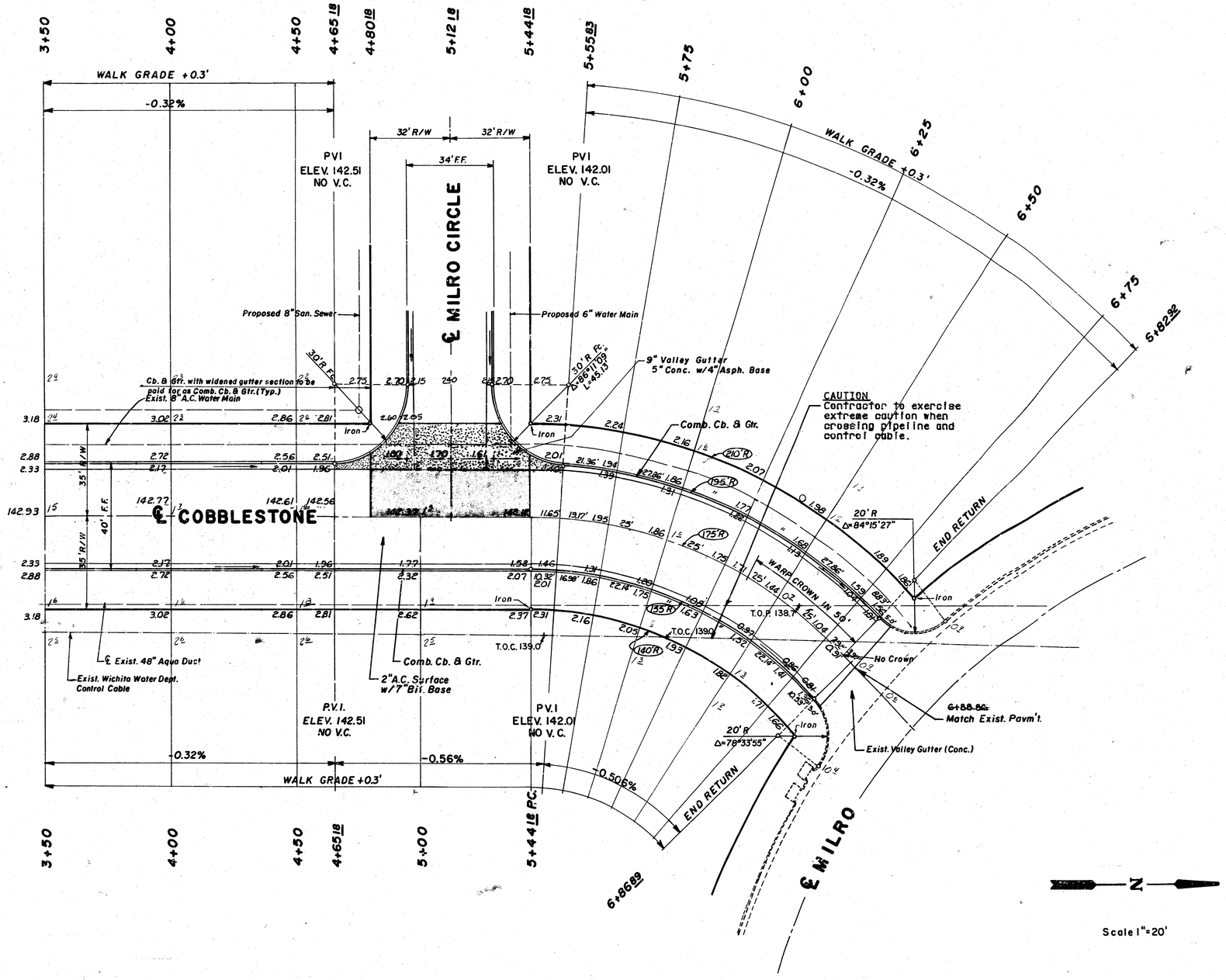
EXCAVATION				EXCAVATION FROM BORROW AREA		COMPACTED FILL			
	CITY		PROPERTY		PROPERTY		CITY		PROPERTY
+10%	20.4 C.Y.	+10%	379.1 C.Y.	+10%	2540.3 C.Y.	+10%	21.3 C.Y.	+10%	438.5 C.Y.
	2.0 C.Y.		37.9 C.Y.		254.0 C.Y.		2.1 C.Y.		43.8 C.Y.
	22.4 C.Y.		417.0 C.Y.		2794.3 C.Y.		23.4 C.Y.		482.3 C.Y.

TOTAL MANIPULATION 7794.2 Sq. Yds.

N

Scale 1"=20'

PROJECT DESCRIPTION
COBBLESTONE
PROJECT NUMBER
472 76 245 80599 000 000 001



Δ=46°43'32" R=175.00' T=75.59' L=142.71' LC=138.78'

CURVE DATA BASED ON ℄ RADIUS $\frac{1}{2}$° = 23°21'46"

STA.	℄ ARC	CHORD LENGTH 8'OFF LT.CB	℄	8'OFF RT CB	DEFLECTION	TOTAL DEFLECTION
5+44.18						
5+55.83	11.65	13.51	11.65	9.78	1°54'26"	1°54'26"
5+75	19.17	22.23	19.16	16.09	3°08'17"	5°02'43"
6+00	25	28.98	24.98	20.98	4°05'34"	9°08'17"
6+25	25	28.98	24.98	20.98	4°05'34"	13°13'51"
6+50	25	28.98	24.98	20.98	4°05'34"	17°19'25"
6+75	25	28.98	24.98	20.98	4°05'34"	21°24'59"
6+82.32	7.32	9.18	7.32	6.65	1°17'47"	22°42'46"
6+86.89	3.97	4.61	3.97	3.34	0°39'00"	23°21'46"

Def./Ft.= 0.1637022272

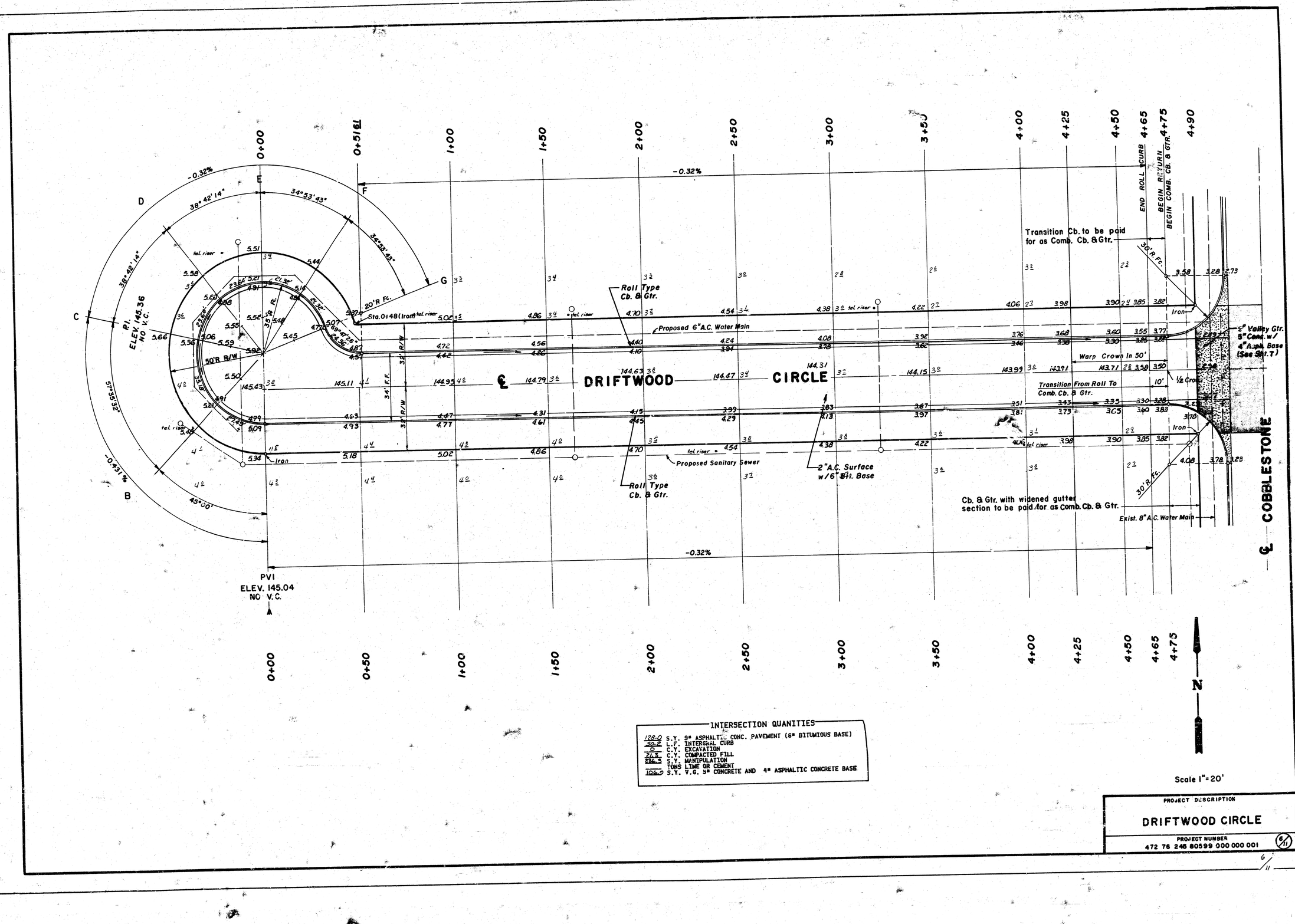
PROJECT DESCRIPTION

COBBLESTONE

PROJECT NUMBER

472 76 245 80599 000 000 001

5/11



INTERSECTION QUANITIES

128.0	S.Y. 9" ASPHALTIC CONC. PAVEMENT (6" BITUMIOUS BASE)
80.2	L.F. INTERGRAL CURB
15	C.Y. EXCAVATION
21.3	C.Y. COMPACTED FILL
216.5	S.Y. MANIPULATION
—	TONS LIME OR CEMENT
106.0	S.Y. V.G. 5" CONCRETE AND 4" ASPHALTIC CONCRETE BASE

Scale 1"=20'

PROJECT DESCRIPTION

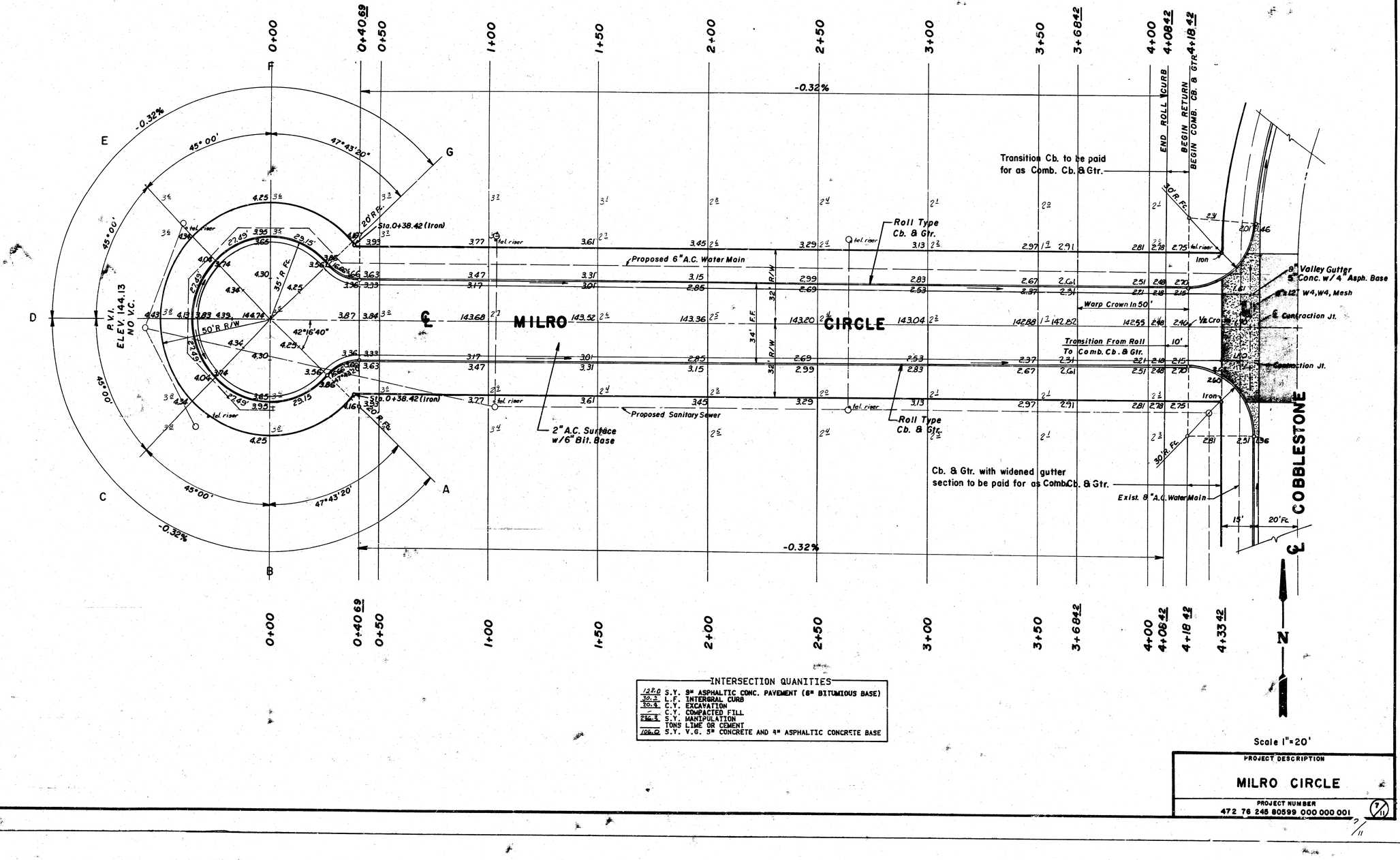
DRIFTWOOD CIRCLE

PROJECT NUMBER

472 76 245 80599 000 000 001

6/11

NOTE:
PLACE 30" No.4 BARS, 30" O.C.
ALONG ℄ CONTRACTION JOINT
IN CONCRETE VALLEY GUTTER.



Scale 1"=20'

INTERSECTION QUANITIES

128.0	S.Y. 9" ASPHALTIC CONC. PAVEMENT (6" BITUMIOUS BASE)
30.2	L.F. INTERGRAL CURB
20.8	C.Y. EXCAVATION
-	C.Y. COMPACTED FILL
256.3	S.Y. MANIPULATION
	TONS LIME OR CEMENT
106.0	S.Y. V.G. 5" CONCRETE AND 4" ASPHALTIC CONCRETE BASE

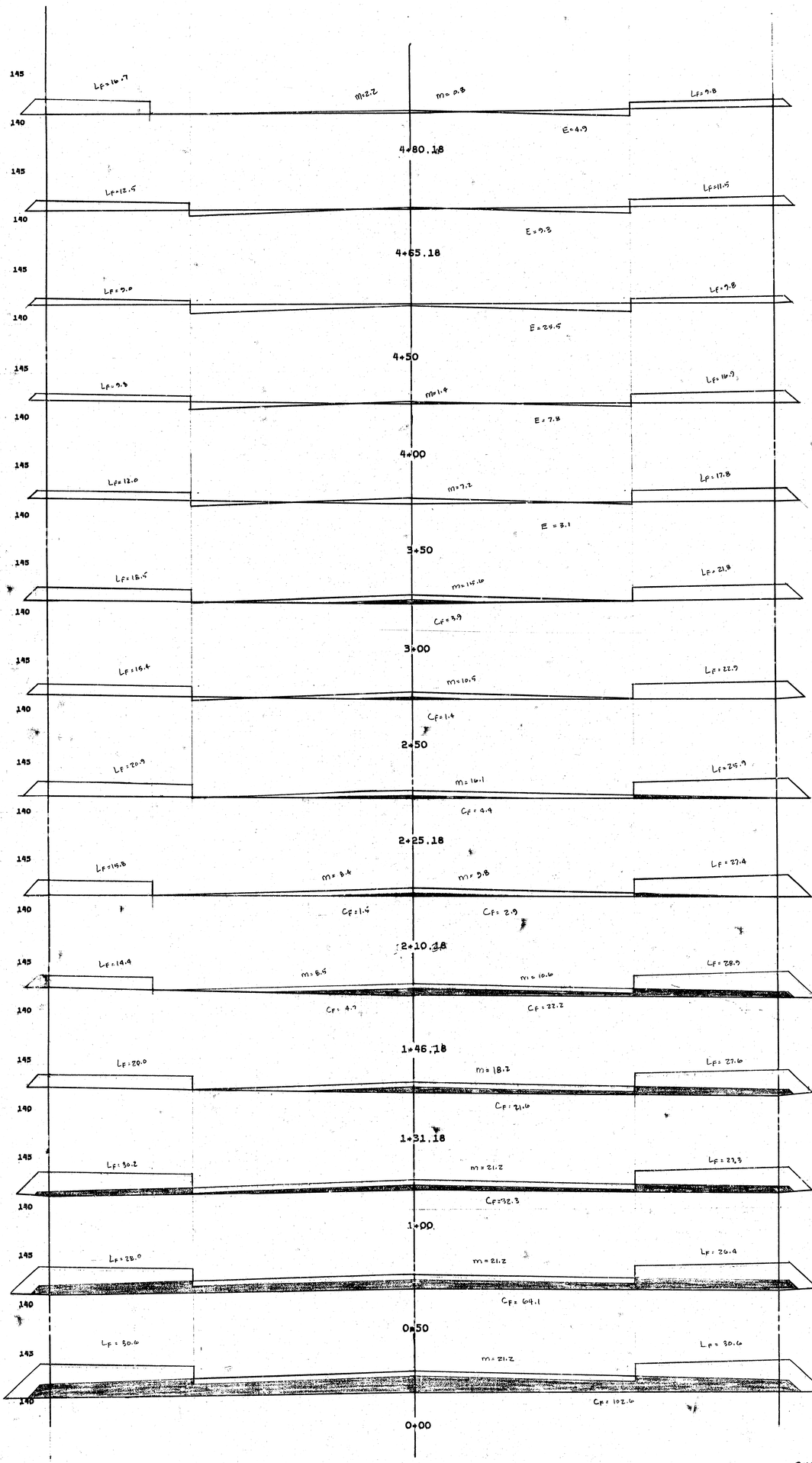
PROJECT DESCRIPTION

MILRO CIRCLE

PROJECT NUMBER

472 76 245 80599 000 000 001

7/11



x1.5
LF$_R$= 5.9 c.y.
LF$_L$= 6.1 c.y
MF= 0.8 c.y
E = 8.9 c.y

x15.18
LF$_R$= 6.0 c.y
LF$_L$= 10.0 c.y.
E= 9.8 c.y.

x50
LF$_R$= 24.7 c.y.
LF$_L$= 17.4 c.y.
E= 30.4 c.y

x50
LF$_R$= 32.1 c.y
LF$_L$= 20.2 c.y
MF= 8.0 c.y
E= 10.1 c.y

x50
CF= 3.6 c.y.
LF$_R$= 36.7 c.y
LF$_L$= 28.2 c.y.
MF= 21.1 c.y
E = 2.9 c.y

x50
CF= 4.9 c.y.
LF$_R$= 41.4 c.y
LF$_L$= 31.4 c.y.
MF= 26.2 c.y

x24.82
CF= 2.7 c.y.
LF$_R$= 22.4 c.y
LF$_L$= 16.7 c.y
MF= 12.2 c.y

x15
CF= 2.4 c.y.
LF$_L$= 14.9 c.y
LF$_L$= 10.2 c.y
MF= 9.5 c.y

x64
CF= 29.7 c.y.
LF$_R$= 66.7 c.y.
MF= 24.2 c.y.

x15
CF= 13.5 c.y
LF$_R$= 15.7 c.y
LF$_L$= 9.6 c.y
MF= 10.4 c.y

x31.18
CF= 31.1 c.y
LF$_R$= 31.7 c.y
LF$_L$= 23.0 c.y
MF= 22.7 c.y

x50
CF= 89.3 c.y.
LF$_R$= 99.7 c.y.
LF$_L$= 53.9 c.y
MF= 39.3 c.y.

x50
CF= 154.4 c.y.
LF$_R$= 52.8 c.y
LF$_L$= 54.3 c.y
MF= 39.3 c.y.

x10
CF= 19.0 c.y.
LF$_R$= 5.7 c.y.
LF$_L$= 5.7 c.y.
MF= 3.3 c.y.

SHEET TOTALS

COMP. FILL	350.6 c.y
LOOSE FILL	697 c.y.
MANIP. FILL	215.6 c.y.
EXCA.	57.5 c.y.

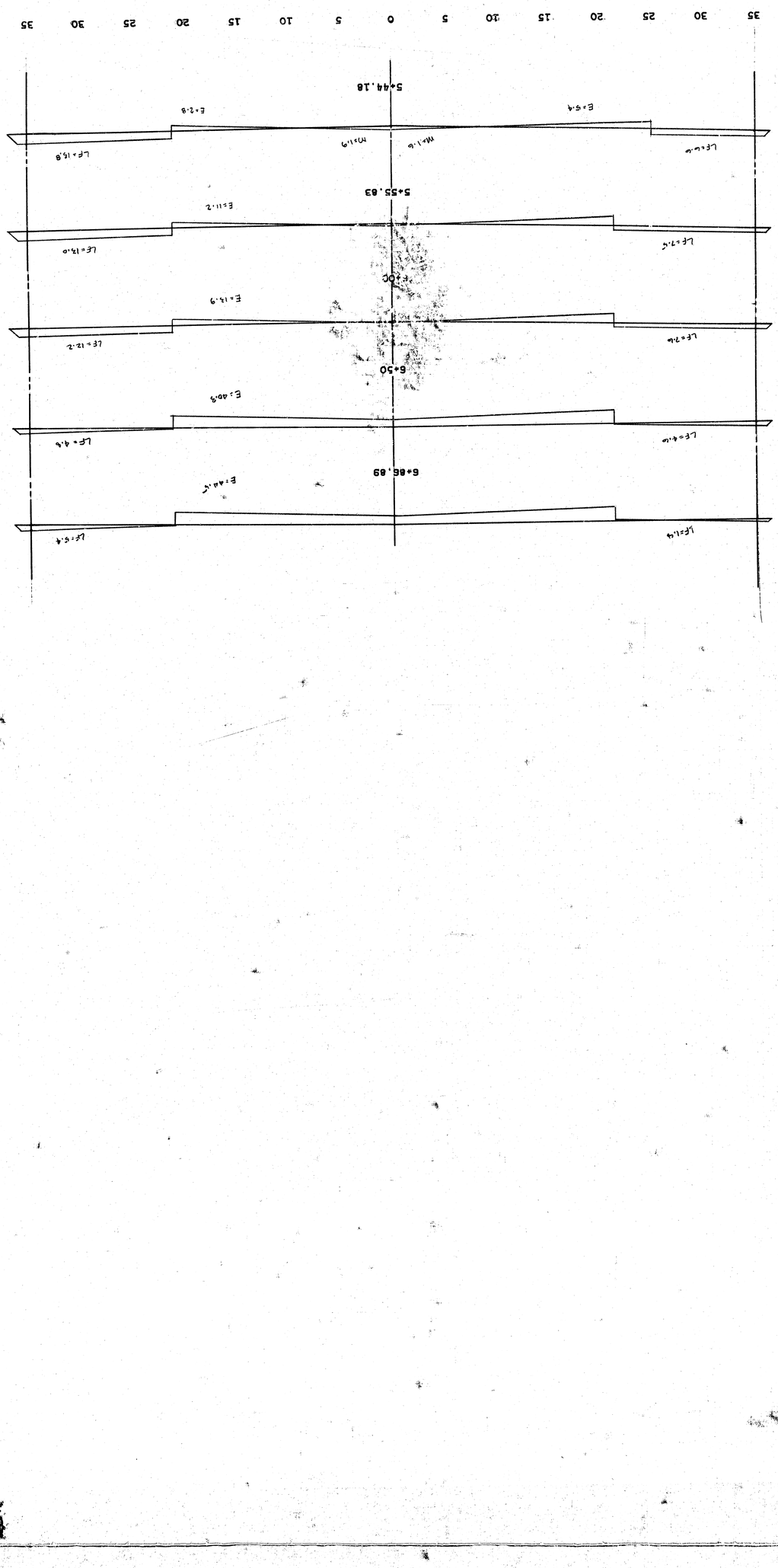
PROJECT DESCRIPTION
COBBLESTONE
PROJECT NUMBER
172-726-245-80380-000-000-001

1/8

PROJECT DESCRIPTION
COBBLESTONE,

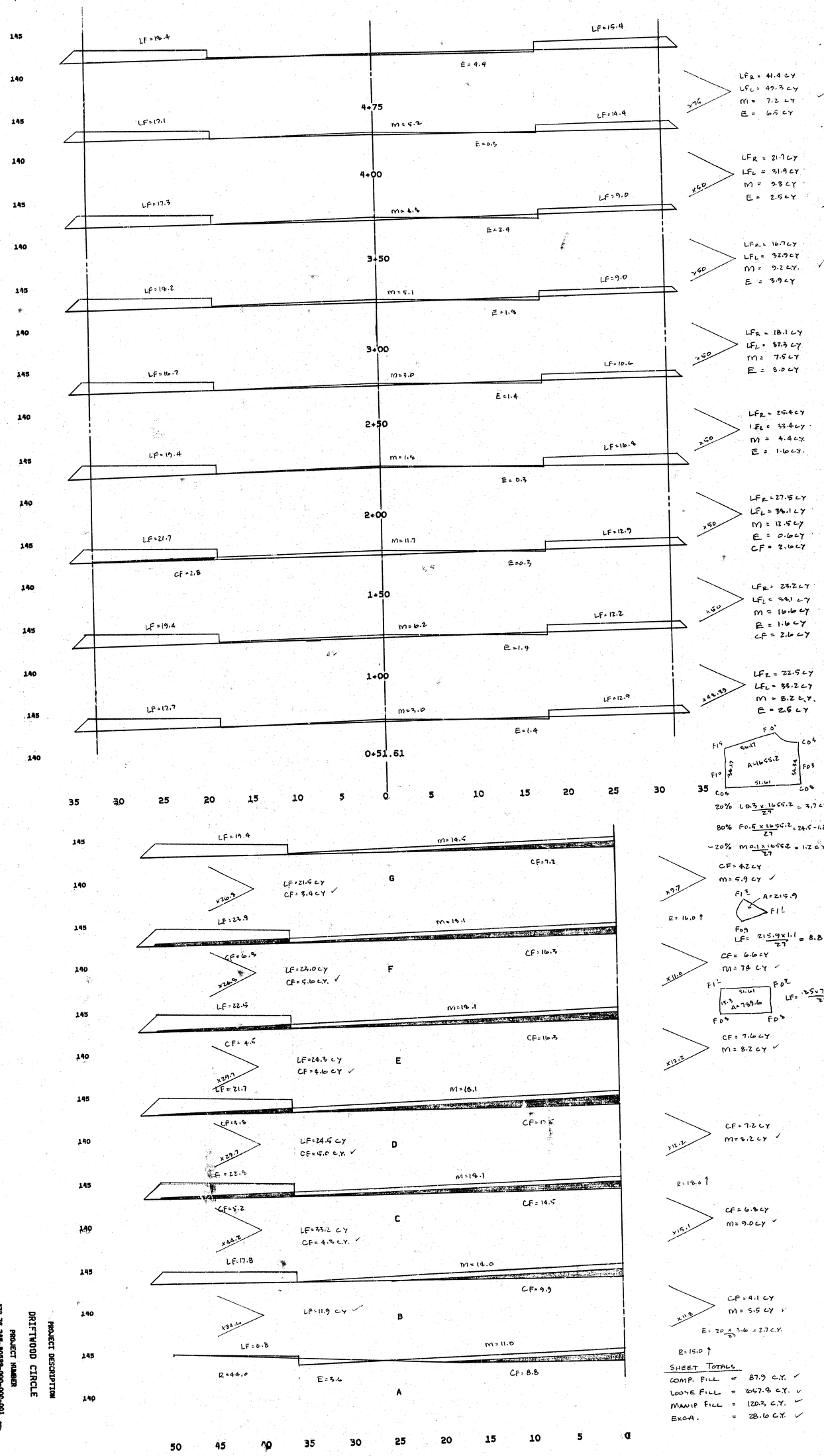
PROJECT NUMBER
472-78-245-80585-000-000-001

9/11



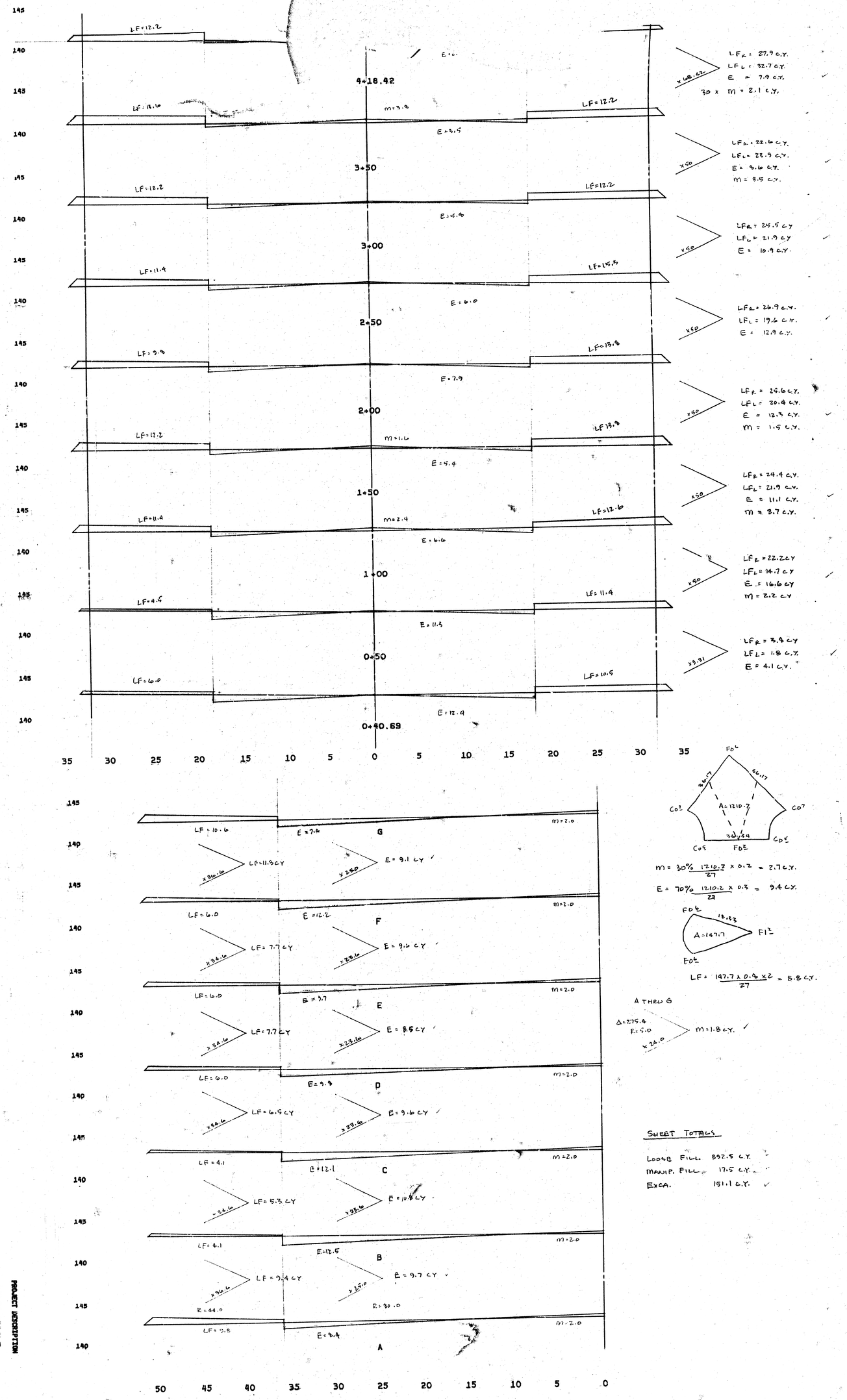
Sheet Totals

Loose Fill 108.2 c.y
Imprp. Fill 4.0 c.y
Excav. 141.9 c.y



PROJECT DESCRIPTION
DRIFTWOOD CIRCLE
PROJECT NUMBER
472-78-249-80595-000-000-001

11/11



SHEET TOTALS

LOOSE FILL	892.5 C.Y.
MANIP. FILL	17.5 C.Y.
EXCA.	151.1 C.Y.

PROJECT DESCRIPTION
MILRO CIRCLE
PROJECT NUMBER
772-79-282-00388-000-000-001

4 of 4 SHEETS