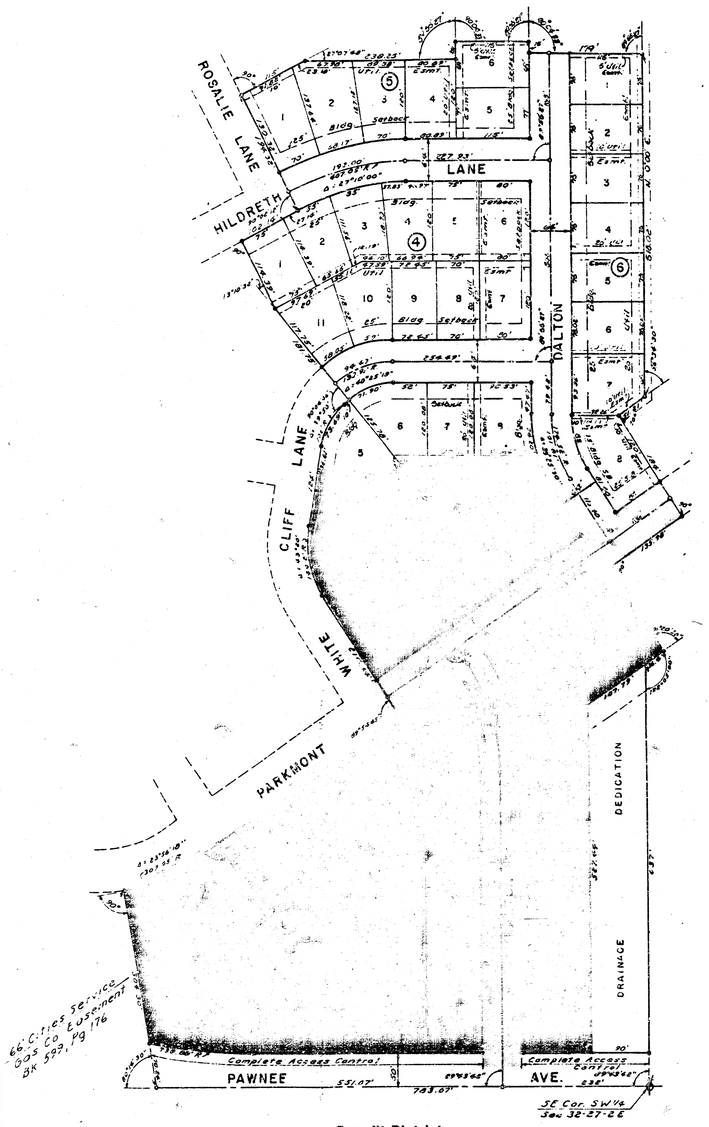


Benefit District

STREET IMPROVEMENTS FOR

FIFTH ADDITION TO CHERRY CREEK HILLS

PROJECT NO.

472-76-245-81127-000-000-001

DALTON ——————FROM THE N.L. PAWNEE TO THE S.L. PARKMONT DR.
PARKMONT DRIVE——FROM THE SW LINE LOT 1, BLK. 3, TO E.L. LOT 1, BLK. 2, 5TH ADDN. TO CHERRY CREEK
PARKMONT COURT——FROM THE S.L. PARKMONT TO & INCL. CUL-DE-SAC

INDEX

PROJECT BENCH MARKS

B.M. 192.20 - City Standard Disc 40' South and 2' East of the ¼ corner, ½ mile East of Rock Road on Pawnee.

B.M. 189.10 - Top of the Southwest corner of the bottom step of House No. 8502 Parkmont.

CITY OF WICHITA, KS

MIKE E. LINDEBAK —— CITY ENGINEER

N. BRENT WOOTEN LICENSED 8470 KANSAS PROFESSIONAL ENGINEER

JUNE 1984

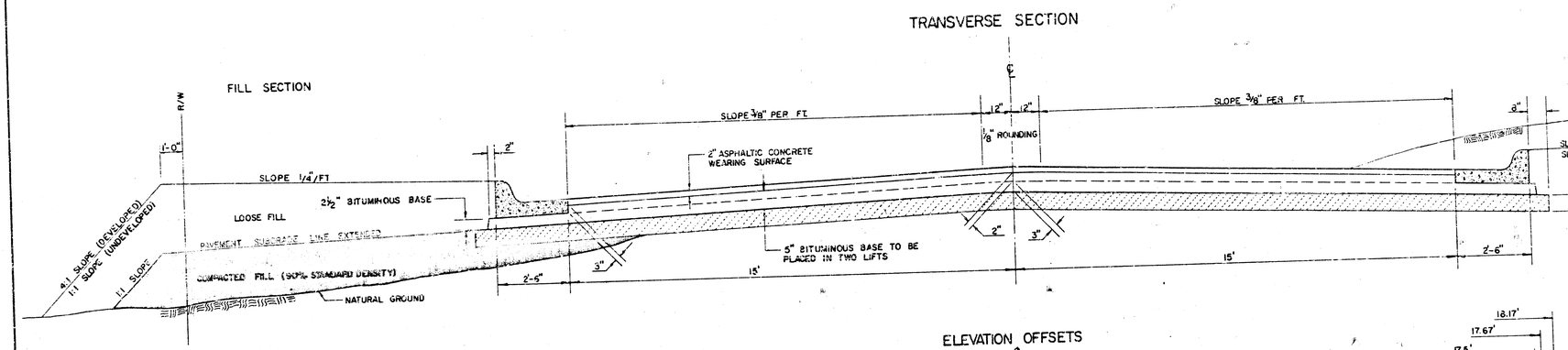
BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262-7271 • 330 LAURA • WICHITA, KANSAS 67211

1/19

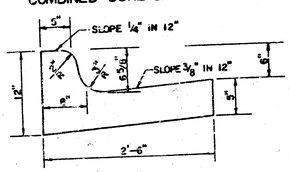
20 Page

TYPICAL 35' PAVEMENT DETAILS

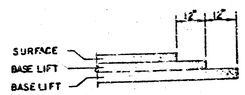
TRANSVERSE SECTION



COMBINED CURB & GUTTER

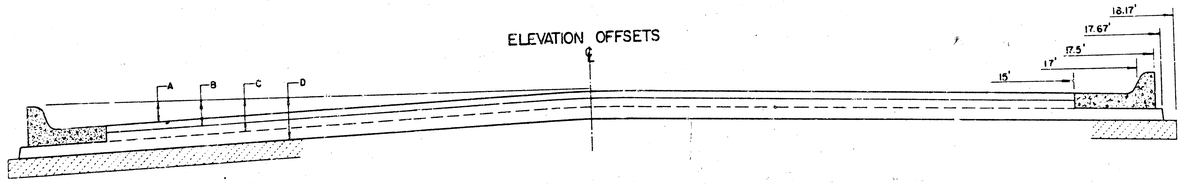


TRANSVERSE CONSTRUCTION JOINTS



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 7" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

ELEVATION OFFSETS



	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	0.11	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	0.63	—	—	—	—
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).

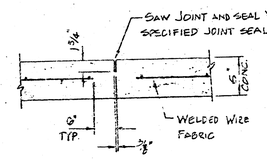
2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2 1/2" BITUMINOUS BASE.

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.

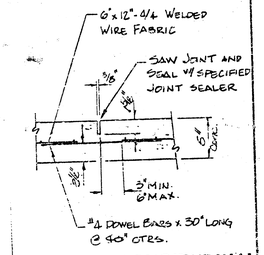
4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

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.

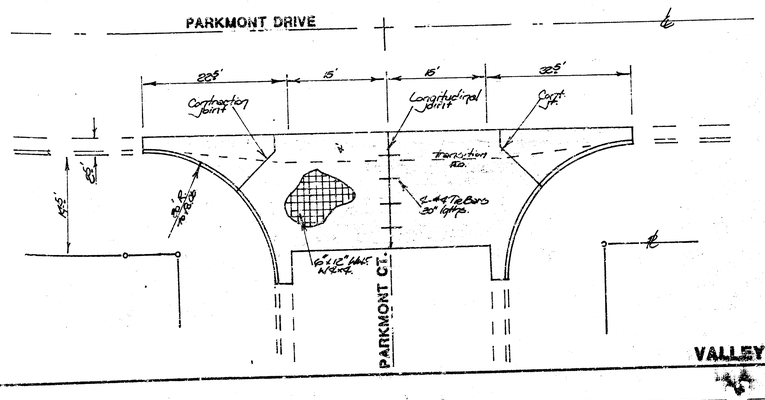
6) CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.

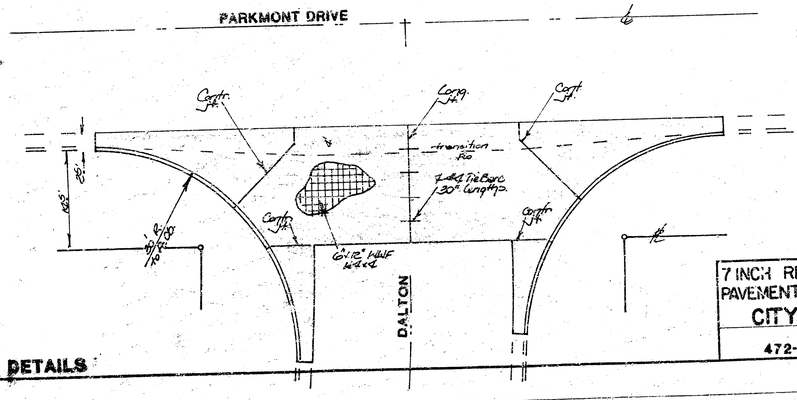


CONTRACTION JOINT



SAWED JOINT LONGITUDINAL





VALLEY GUTTER DETAILS

7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE

CITY OF WICHITA, KANSAS

PROJECT NUMBER

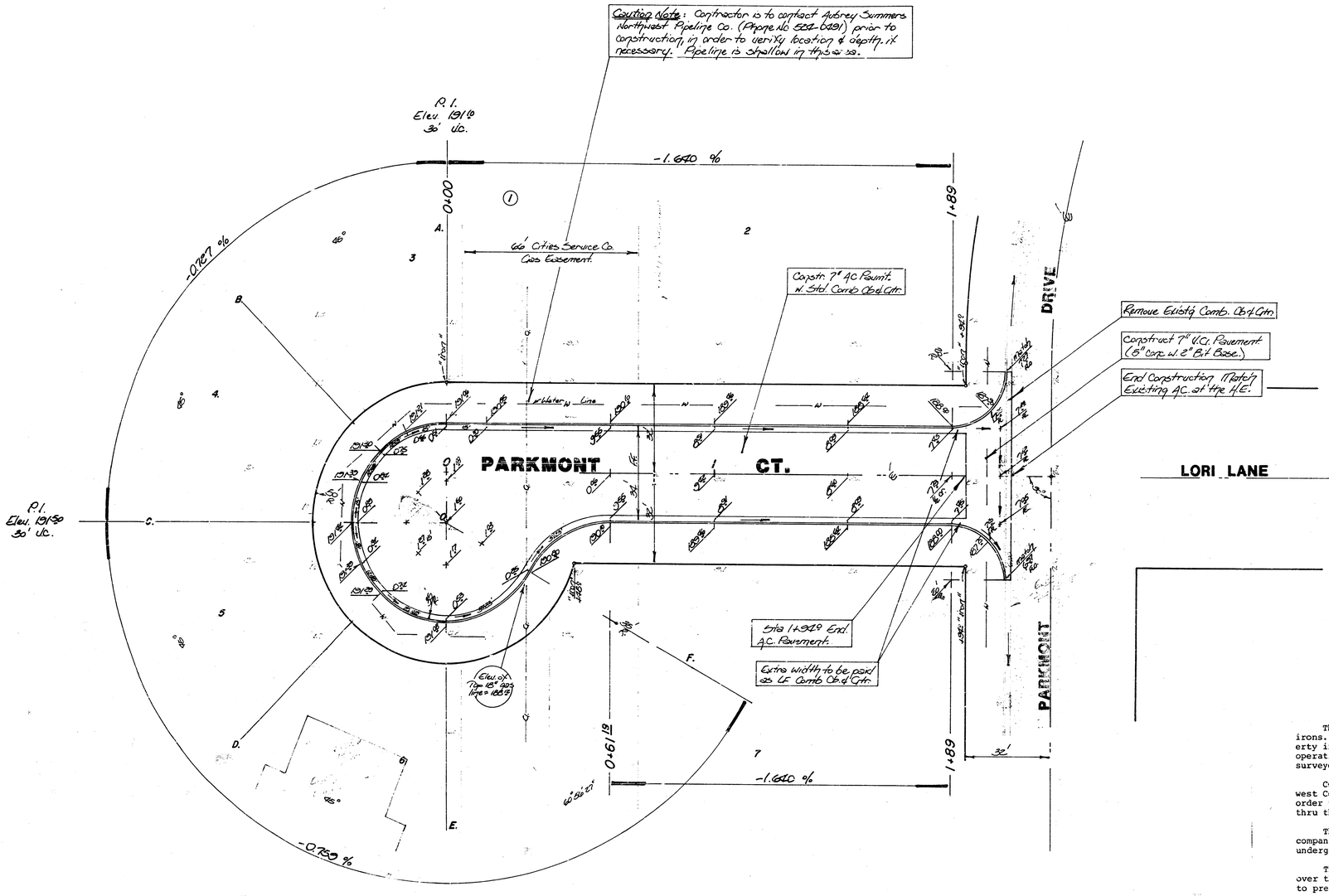
472-76-245-81127-000-000-001

2/20

PROJECT BENCH MARKS

B.M. 192.20 - City Standard Disc 40' South and 2' East of the ¼ corner, ½ mile East of Rock Road on Pawnee.

B.M. 189.20 - Top of the Southwest corner of the bottom step of House No. 8502 Parkmont.



INTERSECTION QUANTITIES

___ S.Y. ___" Concrete Pavement	
162 S.Y. 7 " Asphaltic Conc. Pavement (5 " Bituminous Base)	
39 S.Y. 5½" Bituminous Base	
102 L.F. Combined Curb & Gutter	
66 L.F. Integral Curb	
___ S.F. 4" Wheelchair Ramp	
___ S.F. 4" Walk	
___ C.Y. Excavation	
___ C.Y. Compacted Fill	
___ Lbs. Reinforcing Steel	
139 S.Y. Manipulation	
___ Tons Lime or Cement	
361 S.Y. V.G. 5 " Concrete & 2 " Asphaltic Concrete Base	

GENERAL NOTES

The contractor shall be responsible for preserving property irons. The contractor shall 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 professional engineer in accordance with state laws.

Contractor shall contact Aubrey Summers 524-0491 with Northwest Central Pipeline Corporation prior to any construction in order to verify the location of the 18" gas pipe line which runs thru this area.

The contractor shall also contact the necessary utility companies identified in order to verify the location of any underground lines.

The contractor shall use caution when working the subgrade over the proposed 18" CMP entrance pipe at Pawnee and Dalton to prevent damage to the metal pipe.

NOTE: MATERIALS THAT HAVE BEEN DUMPED WITHIN STREET R OF W SINCE ORIGINAL CROSS SECTIONS WERE TAKEN, SHALL BE REMOVED BY THE DEVELOPER, PRIOR TO BEGINNING THIS PROJECT.

* BORROW TO BE OBTAINED FROM CHANNEL EXCAVATION THAT IS FREE OF ROCK AND/OR DEBRIS.

SYMBOLS

—W—	Indicates Water Line
—G—	" Gas Line
—C—	" TV Cable Line
—E—	" KGE UG. Line
	" Sanitary Sewer
	" Lot Lines
●	" Control Points
	" Removal

EARTHWORK QUANTITIES

EXCAVATION = 1483.0 CY	COMPACTED FILL = 911.9 CY	* BORROW = 1555.4 CY
+ 10 % = 148.3 CY	+ 10 % = 91.2 CY	+ 10% = 155.5 CY
TOTAL = 1631.3 CY	TOTAL = 1003.1 CY	TOTAL = 1710.9 CY

MANIPULATION = 6283 S.Y.

N. BRENT WOOTEN LICENSED 8470 KANSAS PROFESSIONAL ENGINEER

PARKMONT COURT

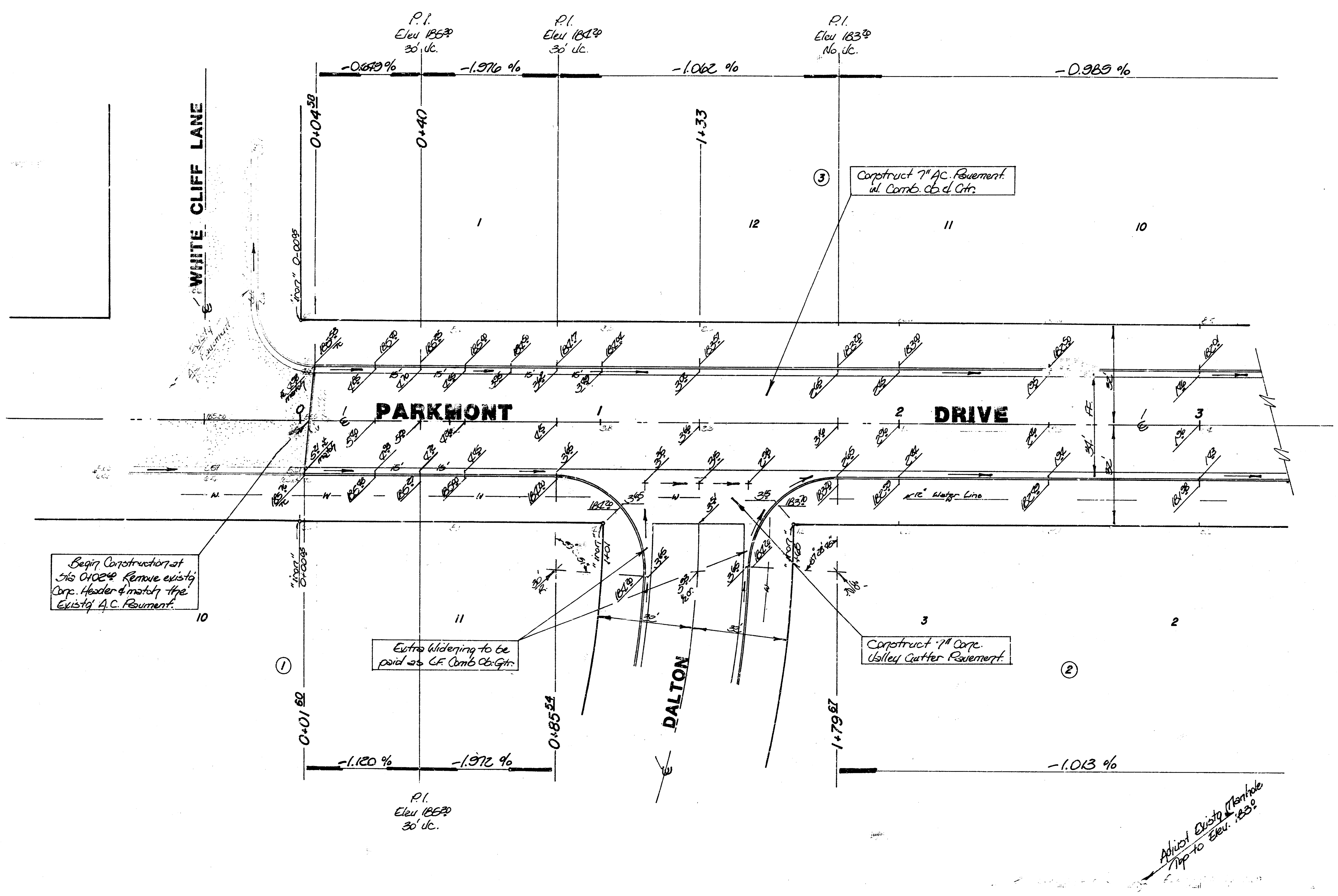
472-76-245-81127-000-000-001

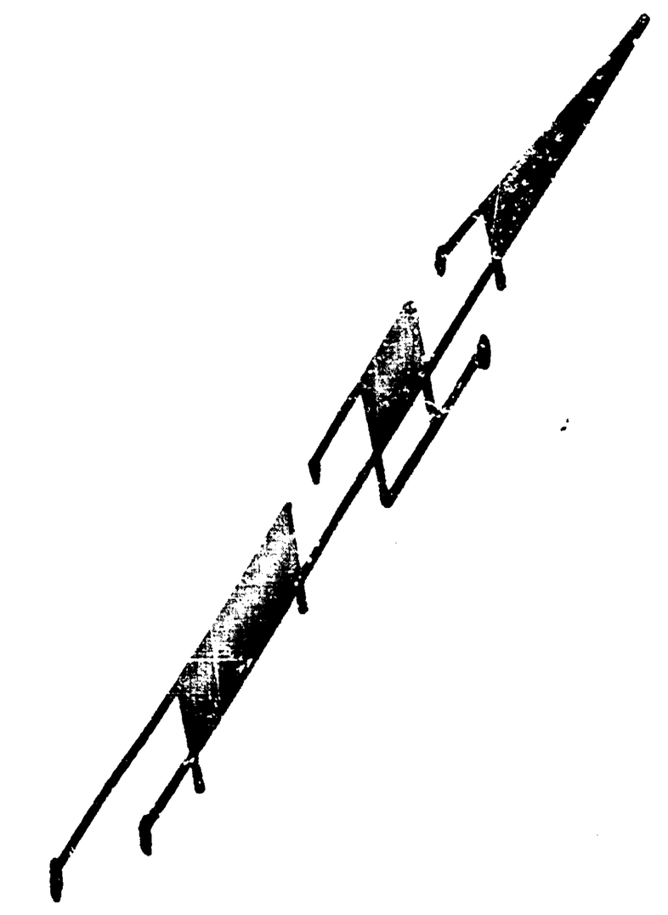
3/20

PROJECT BENCH MARKS

B.M. 192.20 - City Standard Disc 40' South and 2' East of the ¼ corner, ½ mile East of Rock Road on Pawnee.

B.M. 189.20 - Top of the Southwest corner of the bottom step of House No. 8502 Parkmont.





Scale 1" : 20'

	INTERSECTION QUANTITIES
____	S.Y. ____" Concrete Pavement
206⁸	S.Y. 7" Asphaltic Conc. Pavement (6" Bituminous Base)
14¹	S.Y. 2½" Bituminous Base
32⁵	L.F. Combined Curb & Gutter
62⁸	L.F. Integral Curb
____	S.F. 4" Wheelchair Ramp
____	S.F. 4" Walk
____	C.Y. Excavation
____	C.Y. Compacted Fill
____	Lbs. Reinforcing Steel
327⁵	S.Y. Manipulation
____	Tons Lime or Cement
110⁸	S.Y. V.G. 5" Concrete & 2" Asphaltic Concrete Base

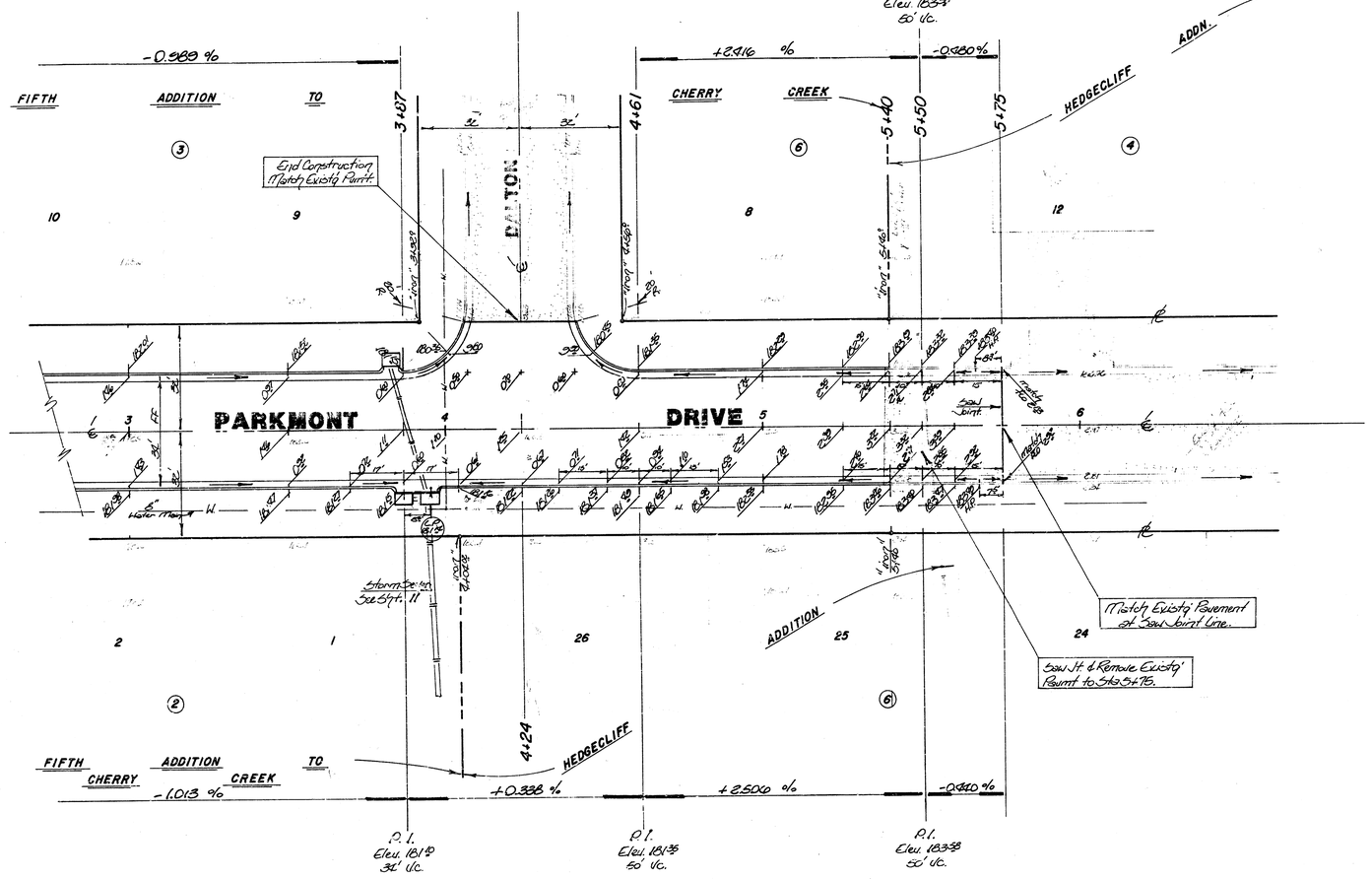
PARKMONT DRIVE

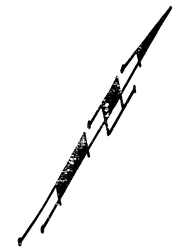
472-76-245-81127-000-000-001

PROJECT BENCH MARKS

B.M. 192.20 - City Standard Disc 40' South and 2' East of the ¼ corner, ½ mile East of Rock Road on Pawnee.

B.M. 189.20 - Top of the Southwest corner of the bottom step of House No. 8502 Parkmont.





Scale 1" : 20'

INTERSECTION QUANTITIES

___	S.Y. ___" Concrete Pavement
2029	S.Y. 7 " Asphaltic Conc. Pavement (5 " Bituminous Base)
157	S.Y. 2½" Bituminous Base
529	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
221	S.Y. Manipulation
___	Tons Lime or Cement
___	S.Y. V.G. ___" Concrete & ___" Asphaltic Concrete Base

PARKMONT DRIVE

472-76-245-81127-060-000-001

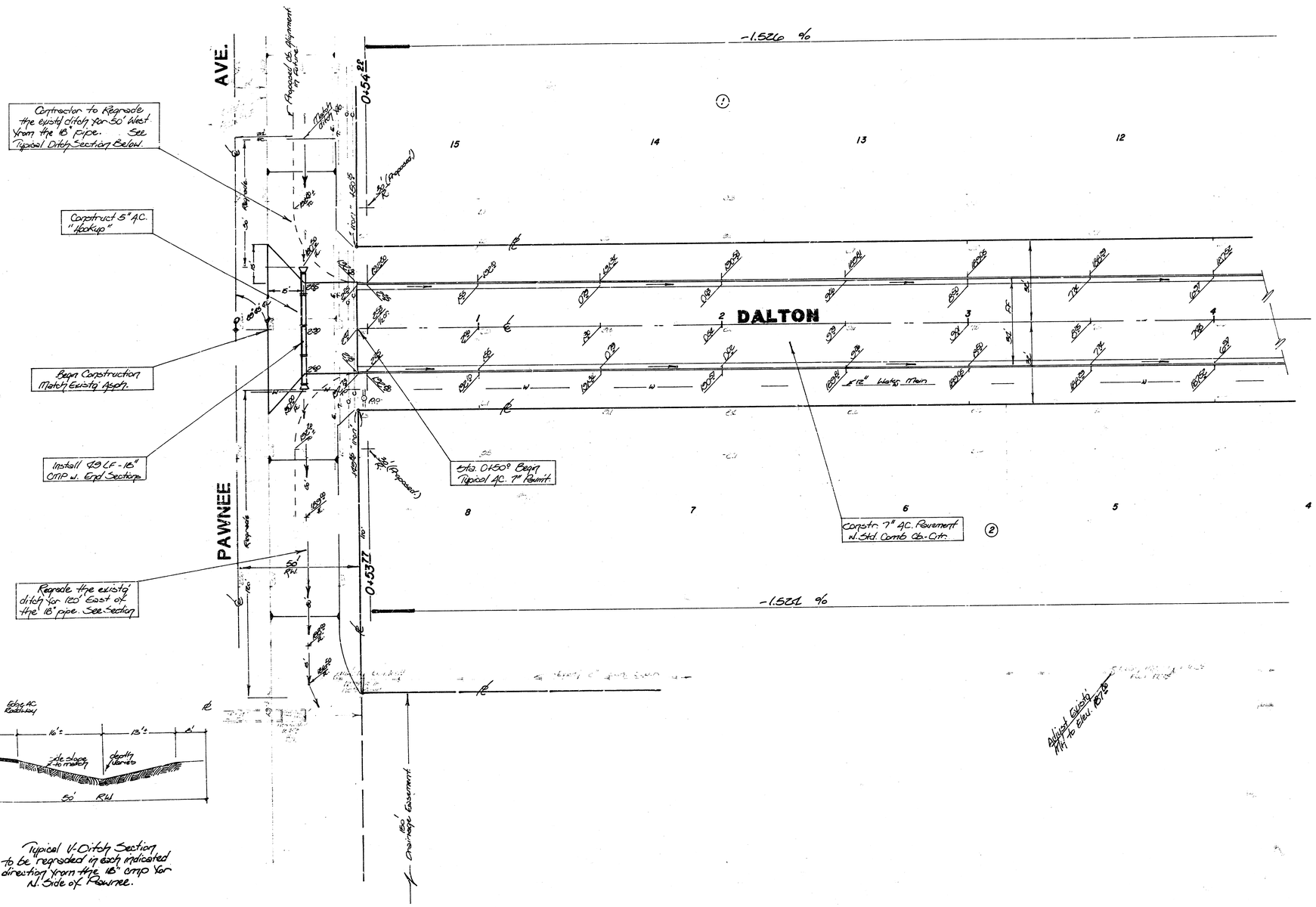
5/20

PROJECT BENCH MARKS

B.M. 192.20 - City Standard Disc 40' South and 2' East of the ¼ corner, ½ mile East of Rock Road on Pawnee.

B.M. 189.20 - Top of the Southwest corner of the bottom step of House No. 8502 Parkmont.

Scale 1" : 20'



DALTON

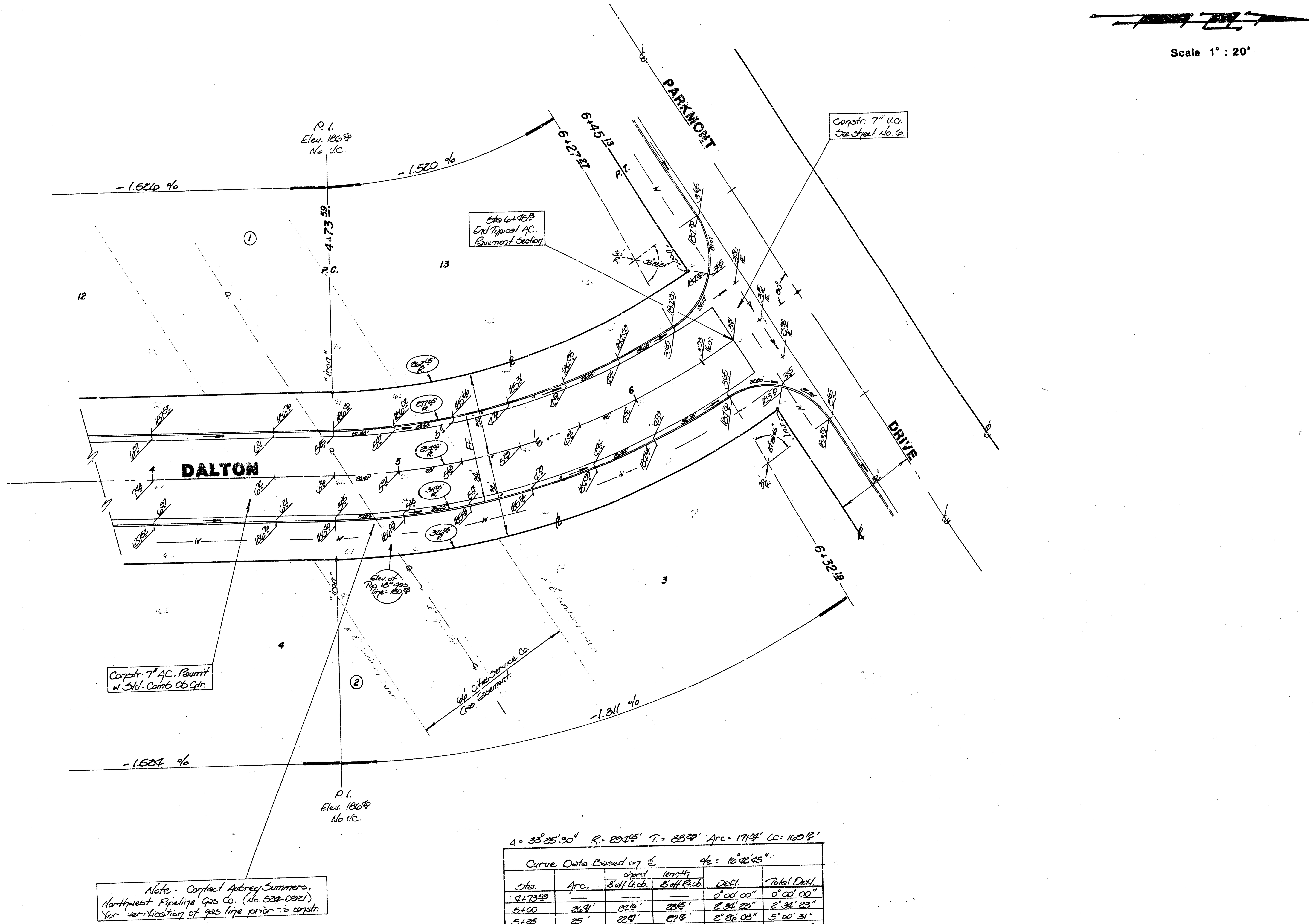
472-73-245-81127-000-000-001

6/20

PROJECT BENCH MARKS

B.M. 192.20 - City Standard Disc 40' South and 2' East of the ¼ corner, ½ mile East of Rock Road on Pawnee.

B.M. 189.20 - Top of the Southwest corner of the bottom step of House No. 8502 Parkmont.



Δ = 33°25'30" R = 294.05' T = 88.29' Arc = 171.54' LC = 169.12'

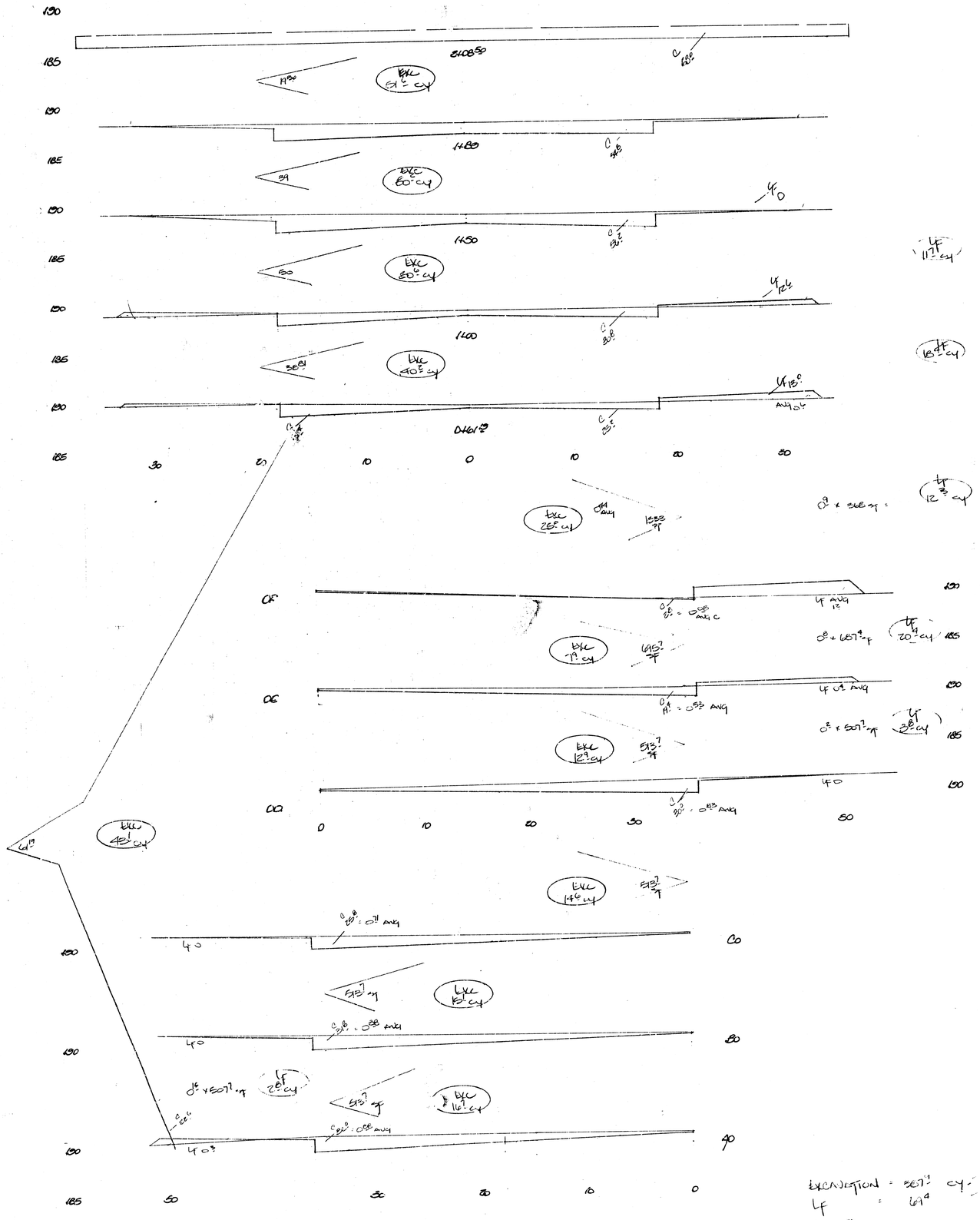
Curve Data Based on ℄ Δ/2 = 16°42'45"

Sta.	Arc.	Chord length 8' off Lt. cb.	Chord length 8' off Rt. cb.	Defl.	Total Defl.
4+73.59	—	—	—	0°00'00"	0°00'00"
5+00	26.41'	22.16'	28.65'	2°34'23"	2°34'23"
5+25	25'	22.87'	27.12'	2°26'08"	5°00'31"
5+50	"	"	"	2°26'08"	7°26'39"
5+75	"	"	"	2°26'09"	9°52'48"
6+00	25'	22.87'	27.12'	2°26'08"	12°18'56"
6+27.27	27.27'	24.94'	↓	2°39'34"	14°58'30"
6+32.19	4.92'	↓	34.91'	0°28'46"	15°27'06"
6+45.13	12.94'	16.34'	14.04'	1°15'39"	16°42'45"

Defl./Ft. = 5.845614 min.

DALTON

472-76-245-81127-000-000-001



EXCAVATION = 387^{1} cy
LF = 69^{4}
CF = 0
MF = 0

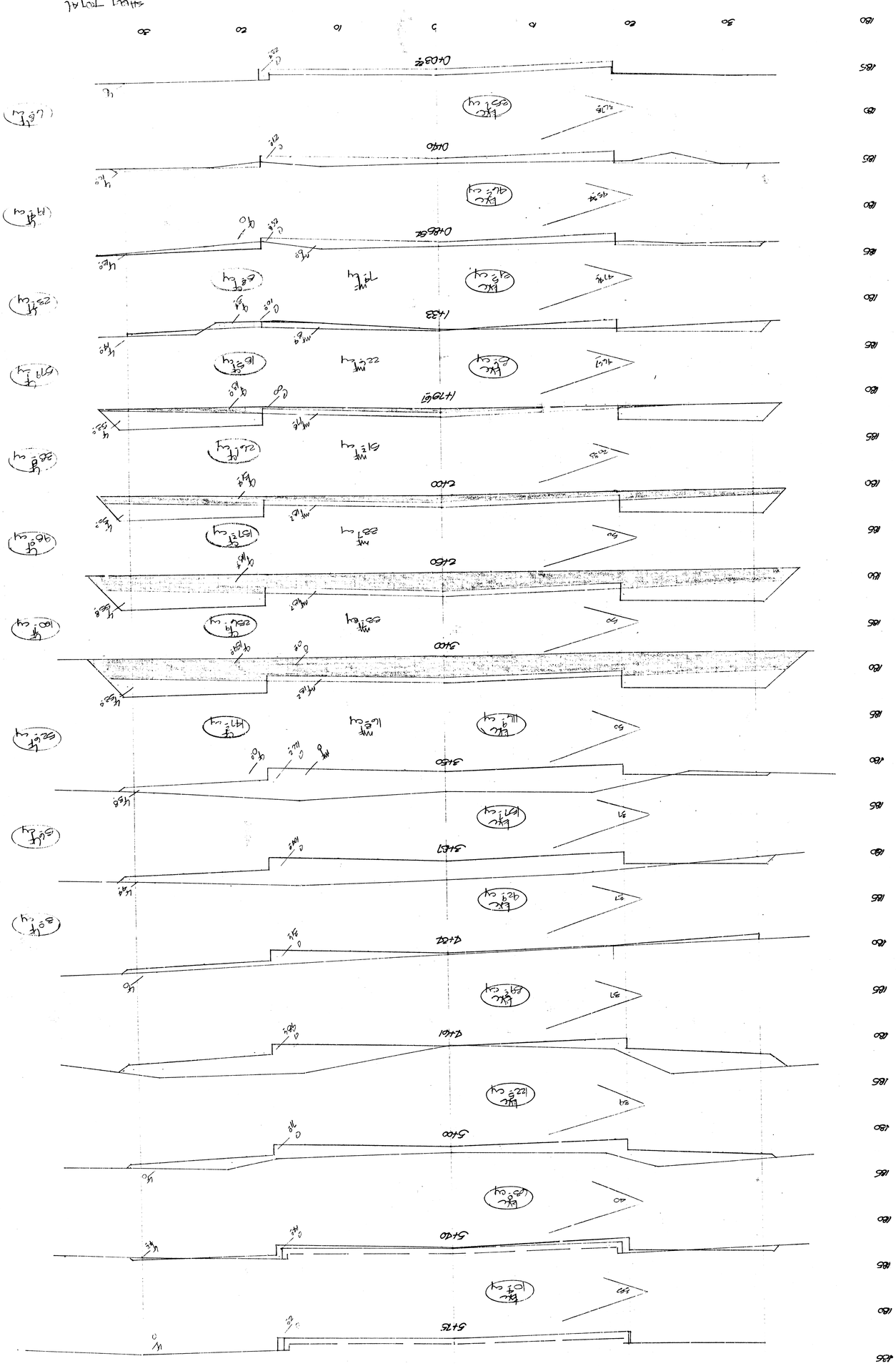
EARTHWORK TOTALS

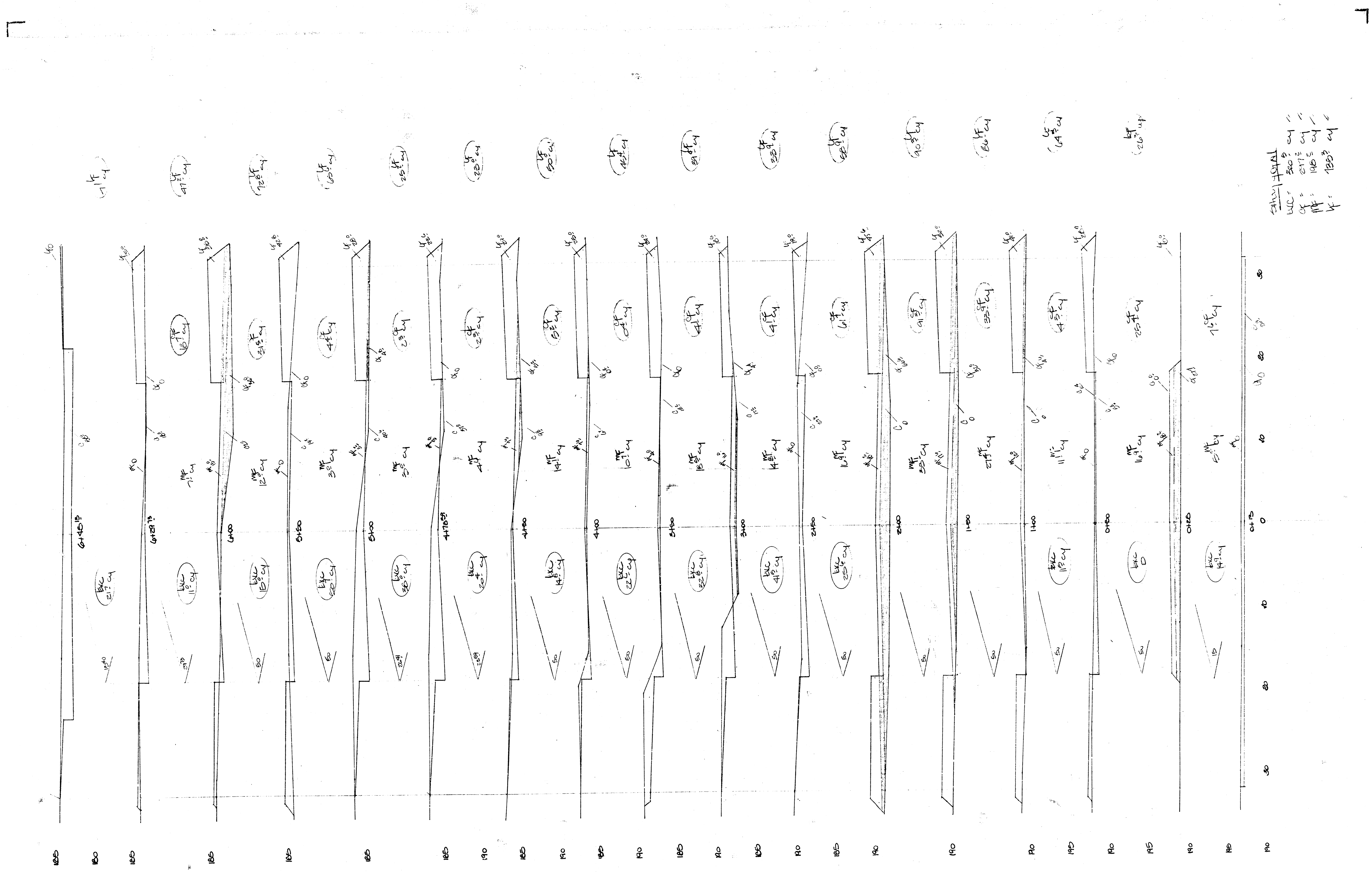
EXCAVATION = 1483^{0} cy
MANIPULATED FILL = 363^{6} cy
COMPACTED FILL = 911^{9} cy
LOOSE FILL = 1211^{2} cy

BORROW = LF + (CF+MF)1.2 − EXC(0.8)
= 1211^{2} + (1275^{5})1.2 − 1483^{0}(0.8) = 1555^{4} cy

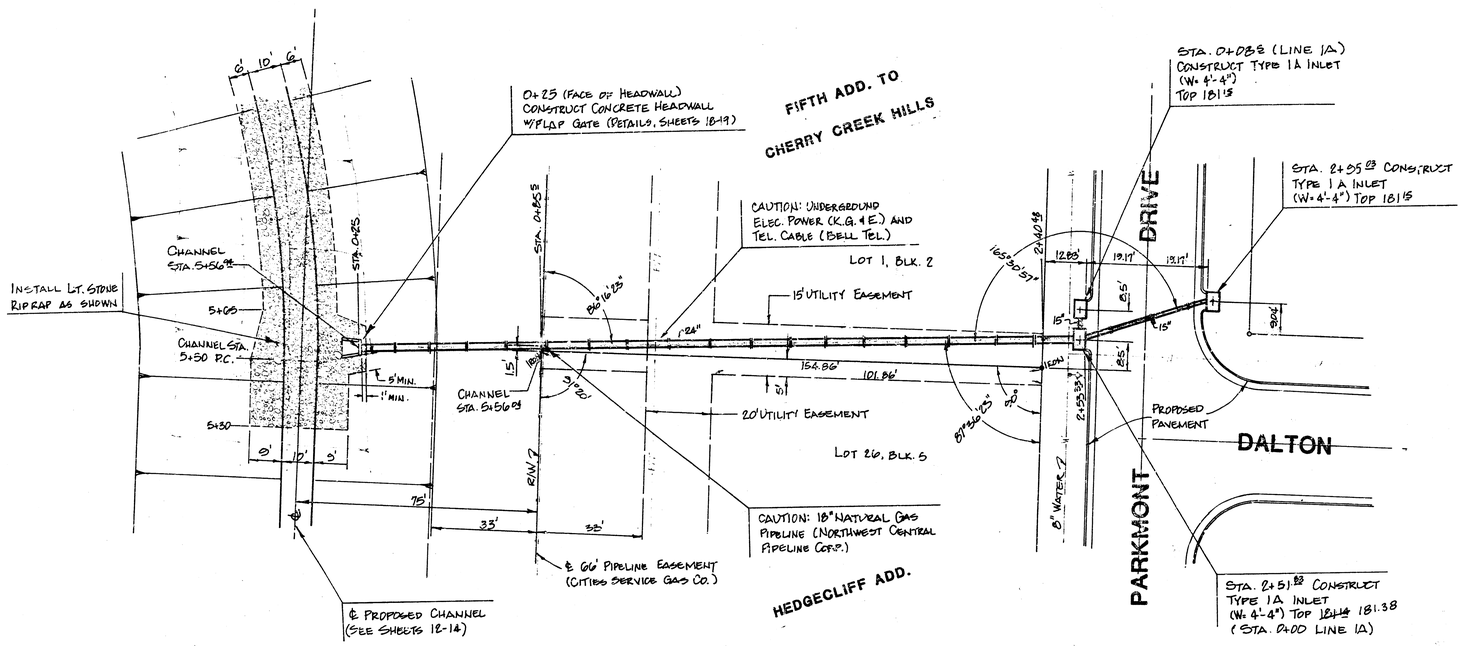
EARTHWORK SECTIONS
PARKMONT COURT

EARTHWORK SECTIONS
PARKMONT DRIVE

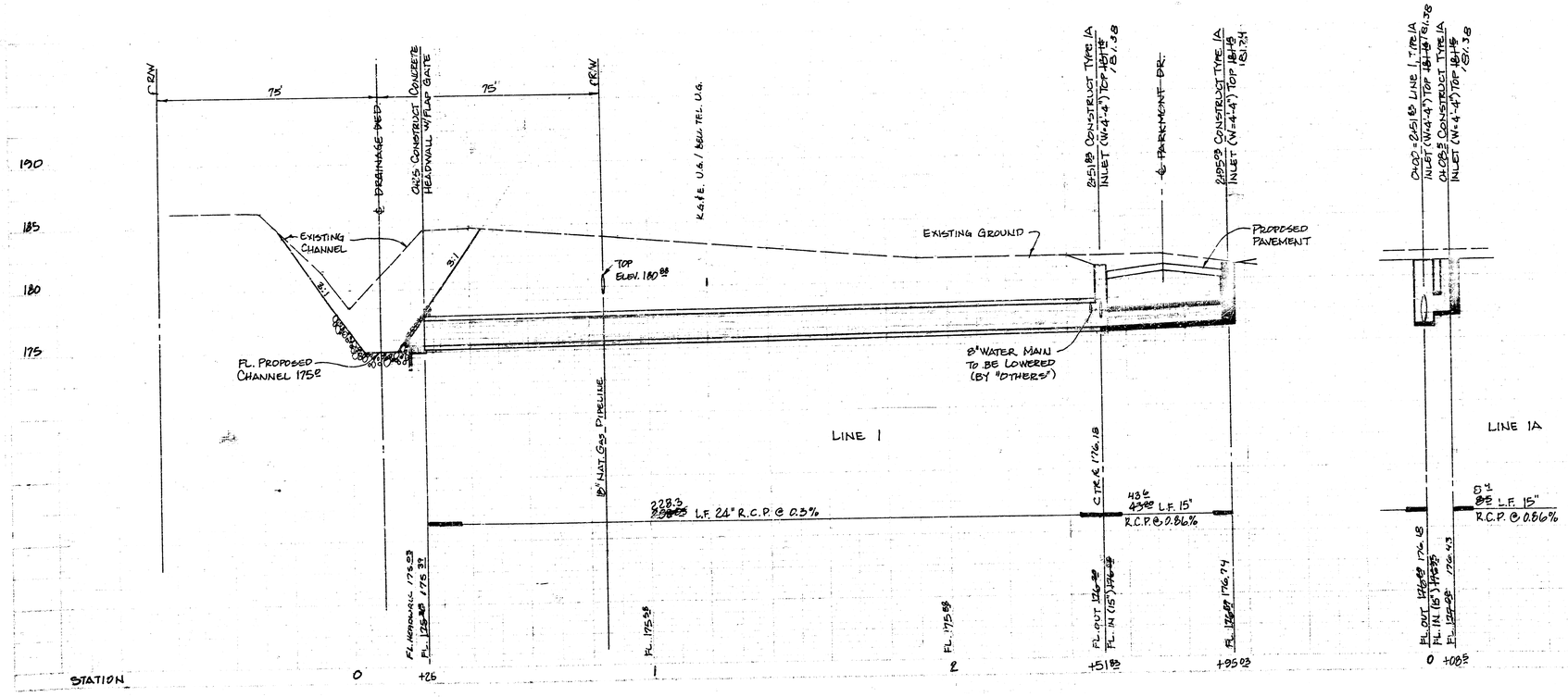




EARTHWORK SECTIONS
DALTON



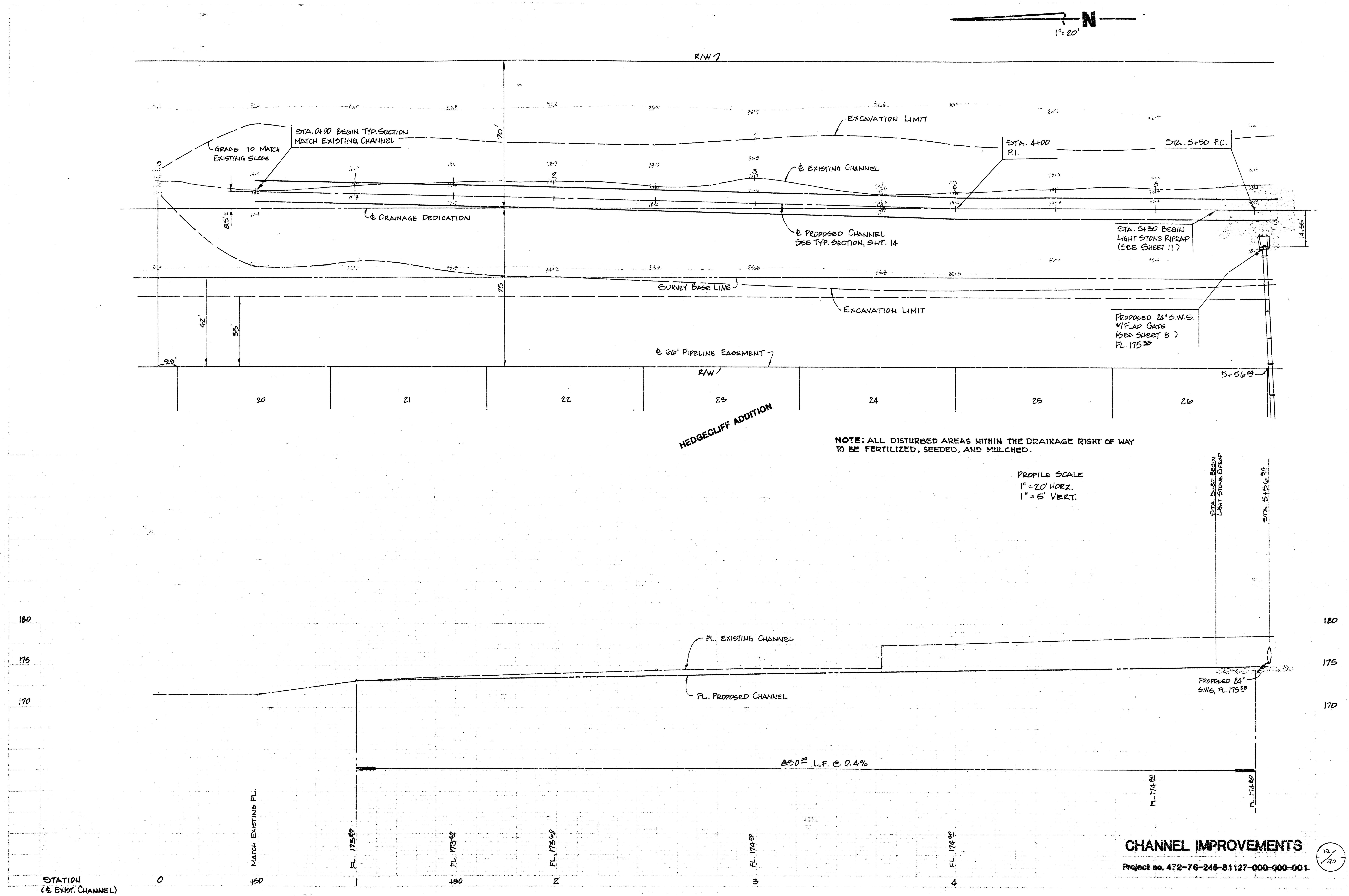
AS BUILT
11-1-84
M.C. GREENE



INCIDENTAL DRAINAGE
PARKMONT DRIVE

Project no. 472-78-245-81127-000-000-001

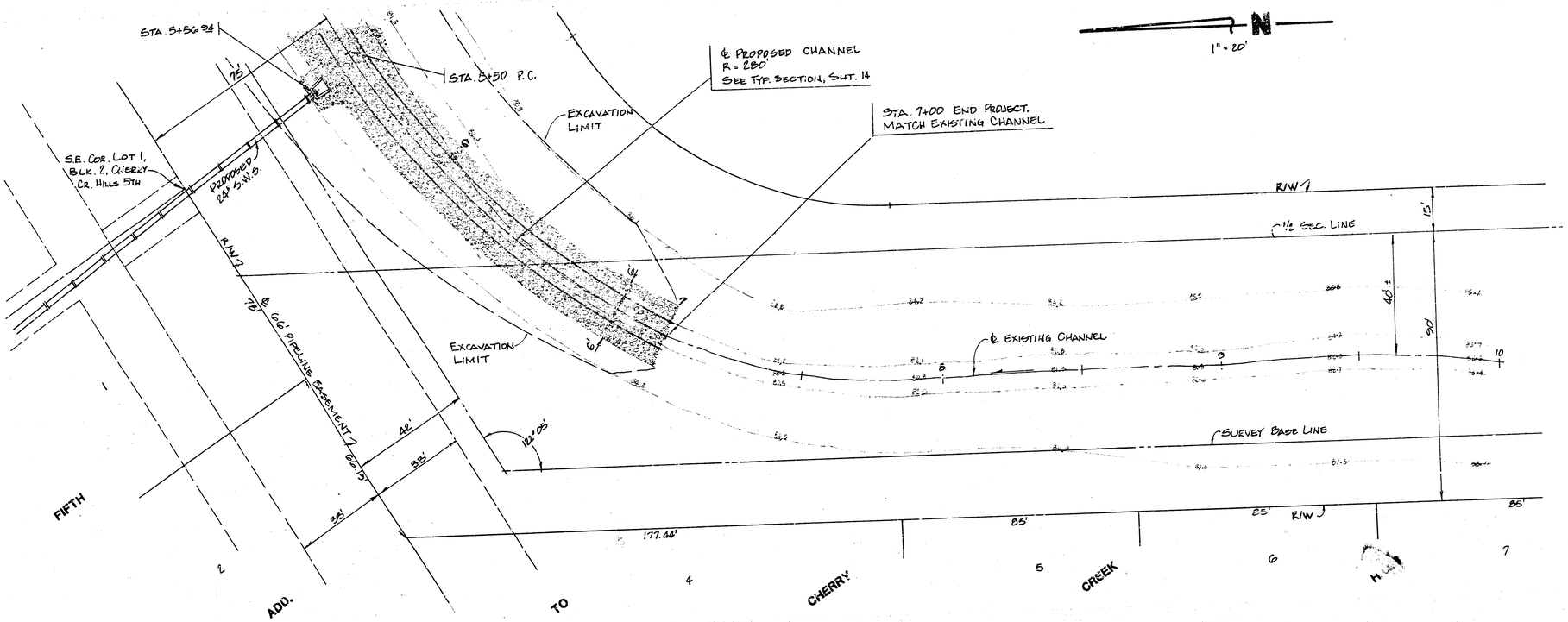
11/20

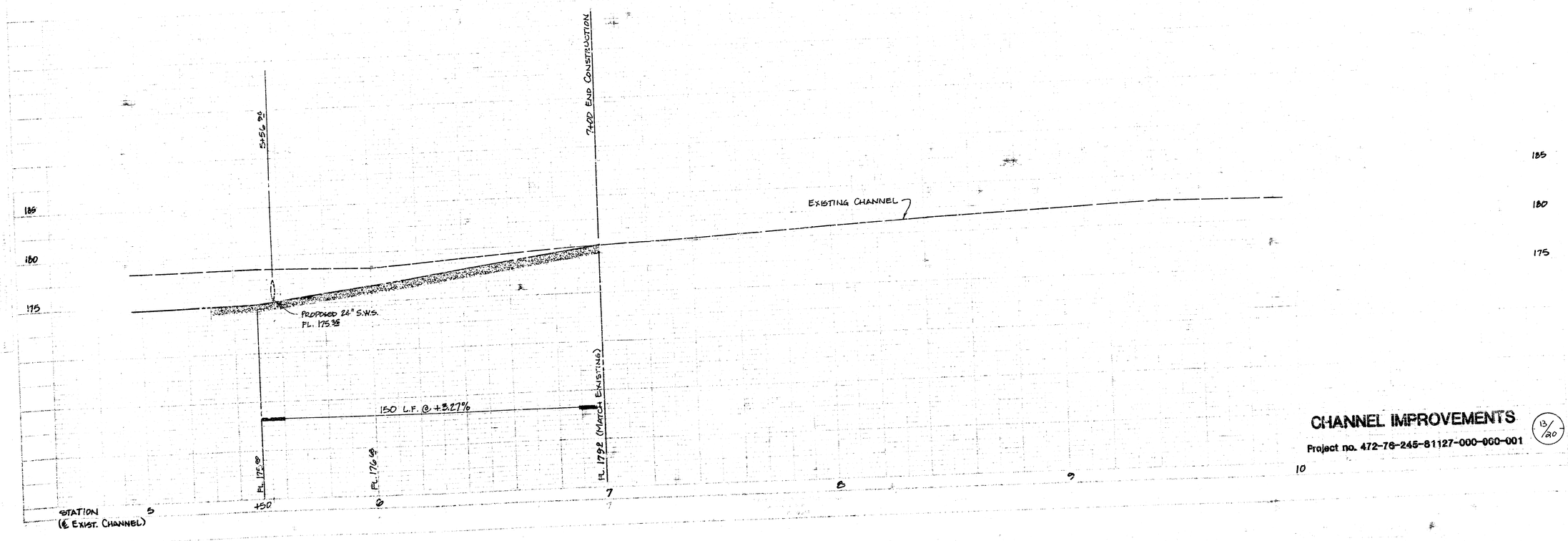


N
1" = 20'
R/W
EXCAVATION LIMIT
STA. 0+00 BEGIN TYP. SECTION MATCH EXISTING CHANNEL
GRADE TO MATCH EXISTING SLOPE
STA. 4+00 P.I.
STA. 5+50 P.C.
℄ EXISTING CHANNEL
℄ DRAINAGE DEDICATION
℄ PROPOSED CHANNEL SEE TYP. SECTION, SHT. 14
STA. 5+30 BEGIN LIGHT STONE RIPRAP (SEE SHEET 11)
SURVEY BASE LINE
EXCAVATION LIMIT
PROPOSED 24" S.W.S. W/FLAP GATE (SEE SHEET 8) FL. 175.35
℄ 66' PIPELINE EASEMENT
R/W
5+56.94
70'
75'
42'
33'
9.2'
14.55'
20
21
22
23
24
25
26
HEDGECLIFF ADDITION
NOTE: ALL DISTURBED AREAS WITHIN THE DRAINAGE RIGHT OF WAY TO BE FERTILIZED, SEEDED, AND MULCHED.
PROFILE SCALE
1" = 20' HORZ.
1" = 5' VERT.
STA. 5+30 BEGIN LIGHT STONE RIPRAP
STA. 5+56.94
180
175
170
FL. EXISTING CHANNEL
FL. PROPOSED CHANNEL
PROPOSED 24" S.W.S., FL. 175.35
450.00 L.F. @ 0.4%
MATCH EXISTING FL.
FL. 173.80
FL. 173.40
FL. 173.60
FL. 174.00
FL. 174.40
FL. 174.80
FL. 174.80
STATION (℄ EXIST. CHANNEL)
0
+50
1
+50
2
3
4

CHANNEL IMPROVEMENTS

Project no. 472-76-245-81127-000-000-001

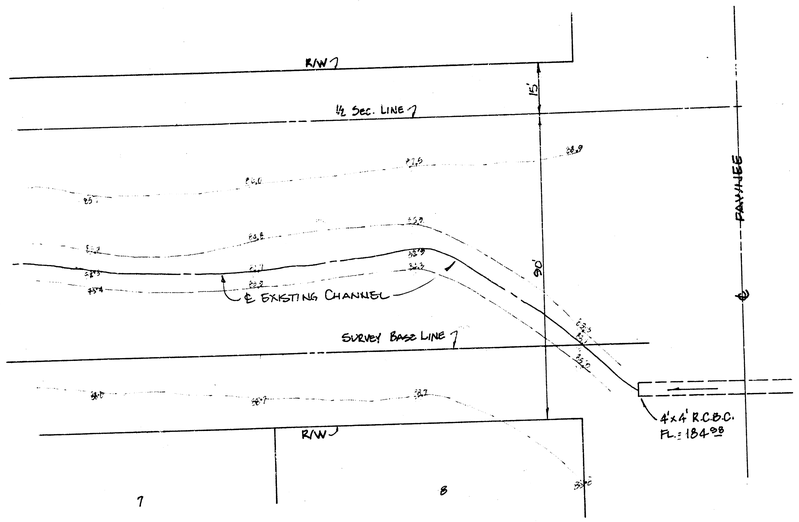




CHANNEL IMPROVEMENTS

Project no. 472-76-245-81127-000-000-001

13/120



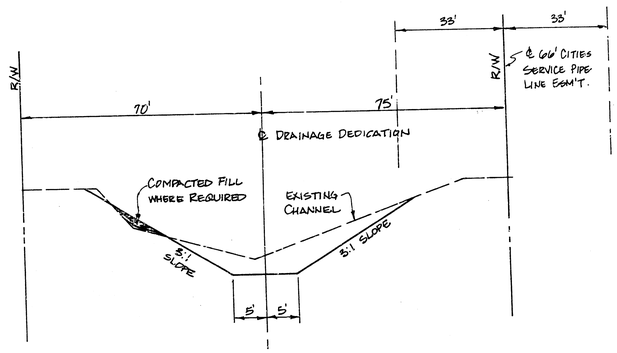
FIFTH ADD. TO CHERRY CREEK HILLS

Note: No Construction this sheet

1" = 20'

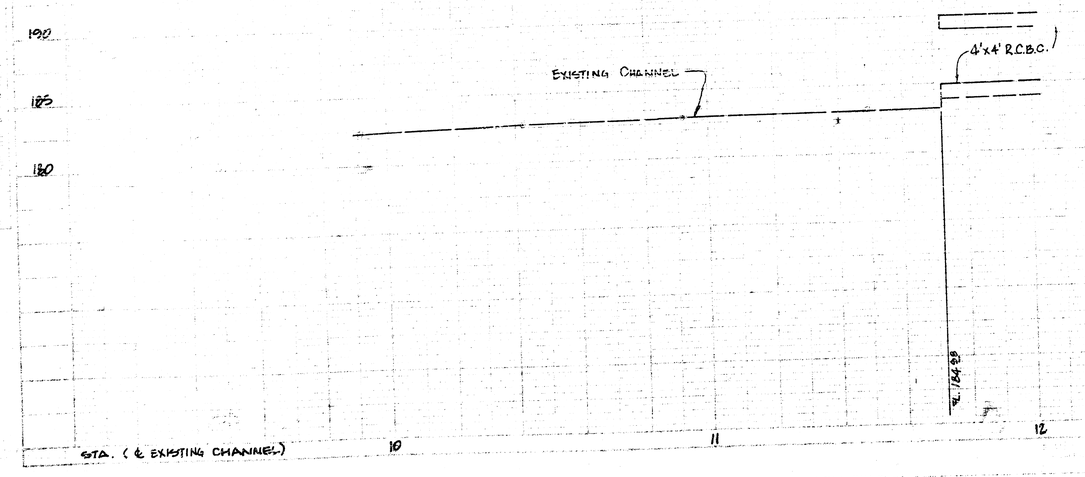
NOTE:

ALL DISTURBED AREAS SHALL BE RE-SEEDED WITH K-31 FESCUE (25D LBS./ACRE) AND FERTILIZED (350 LBS./ACRE) PER STANDARD SPECIFICATIONS OF THE CITY OF WICHITA.



TYPICAL SECTION
IMPROVED CHANNEL

PROFILE SCALE
1" = 20' HORZ.
1" = 5' VERT.



CHANNEL IMPROVEMENTS (11/20)

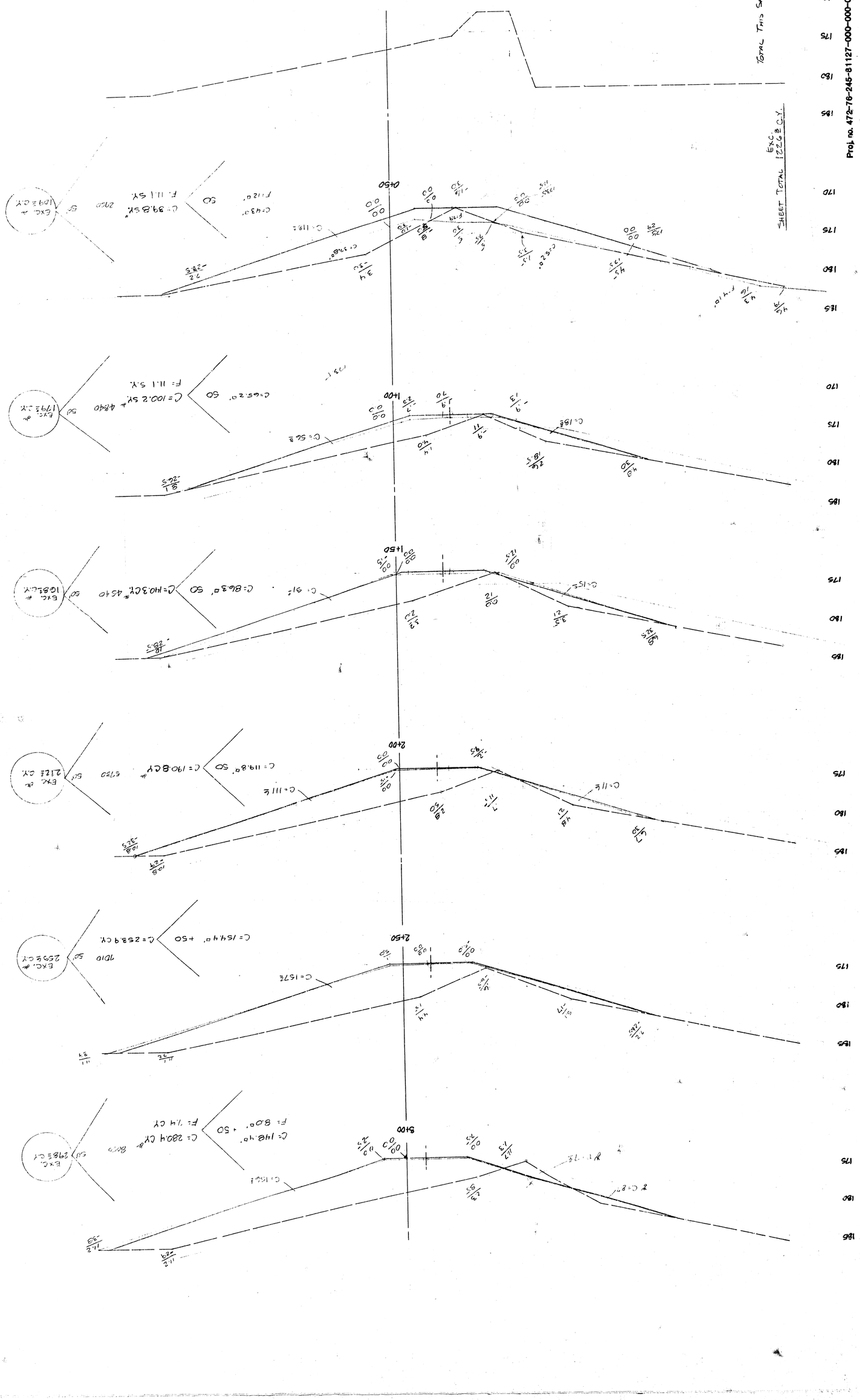
Project no. 472-78-245-81127-000-000-001

Proj. no. 472-76-245-81127-000-000-001

15/20

TOTAL THIS SHEET 9678 C.Y.

SHEET TOTAL EXC. 1226.8 C.Y.



Project no. 472-78-245-81127-000-000-001

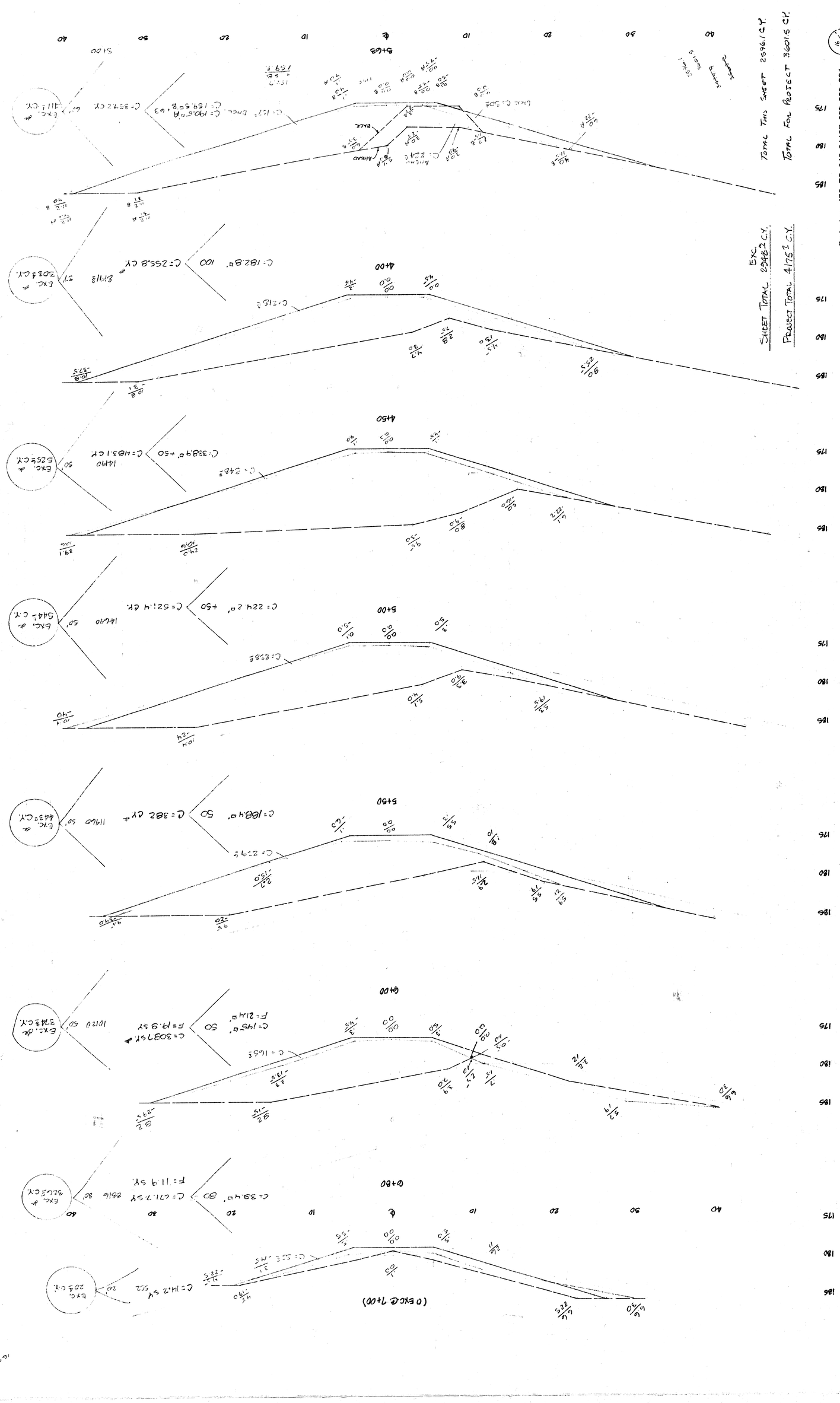
16/20

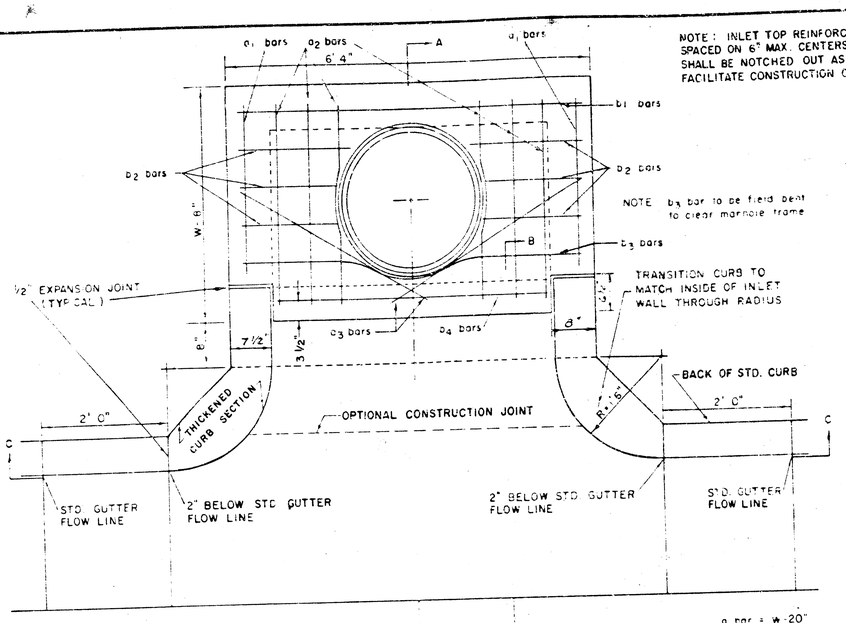
TOTAL THIS SHEET 2596.1 C.Y.

TOTAL FOR PROJECT 36015 C.Y.

EXC.
SHEET TOTAL 23482 C.Y.

PROJECT TOTAL 41751 C.Y.

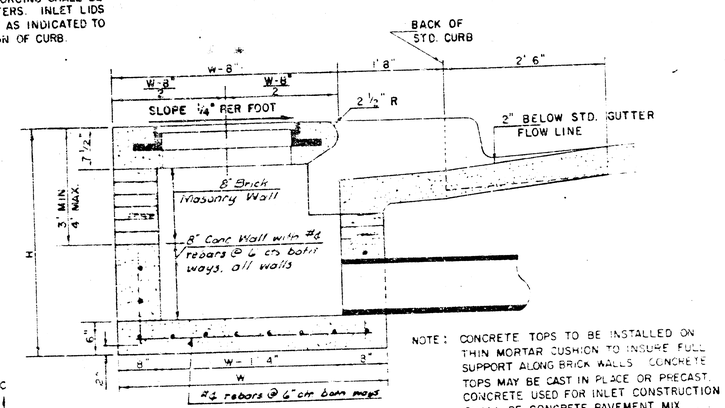




PLAN

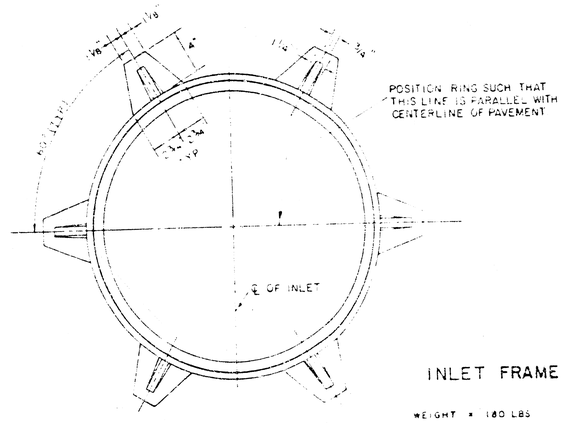
NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

NOTE b_3 bar to be field bent to clear manhole frame



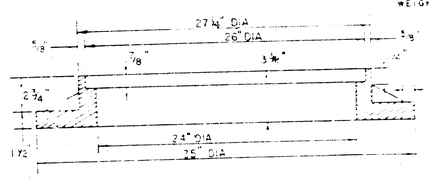
SECTION A-A

NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.



INLET FRAME

WEIGHT = 180 LBS

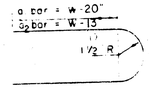


SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 8'4" AND H = 6'3" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.



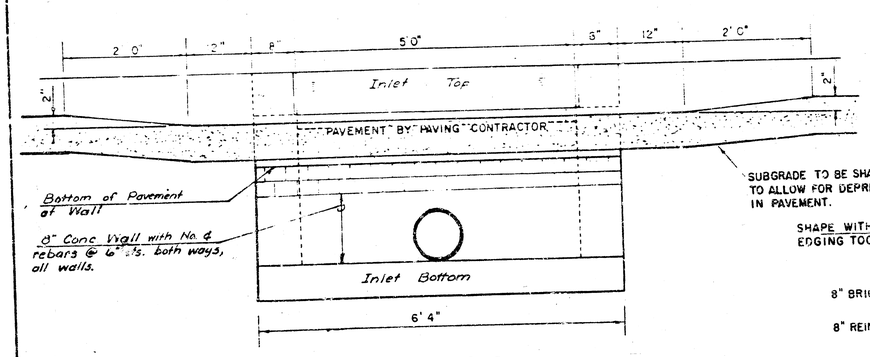
BENDING DIAGRAM

STEEL SCHEDULE

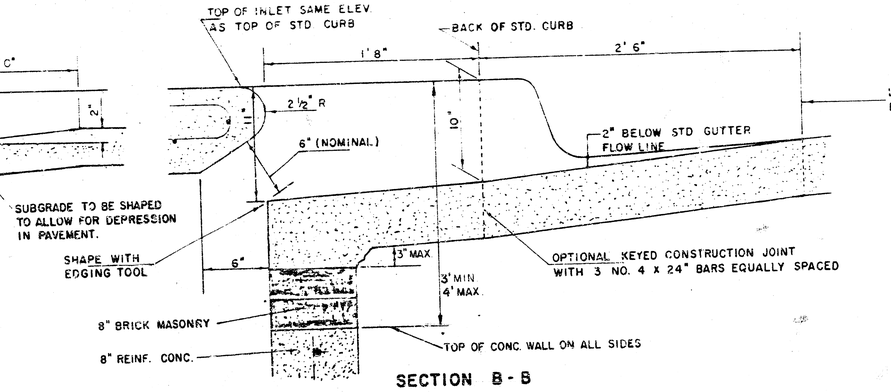
BAR	a_1	a_2	a_3*	L W=4'4	W=5'4	W=6'4	W=7'4	W=8'4	b_2	b_3	b_4	WT LBS
NUMBER	4	4	2	1	2	5	7	9	6	1	1	
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	
LENGTH W=4'4"	5'9"	6'11"	4' 0"	6' 1"	–	–	–	–	1' 9"	6'2"	4'8"	69±
LENGTH W=5'4"	7'9"	8'11"	5' 0"	–	6' 1"	–	–	–	1' 9"	6'2"	4'8"	83±
LENGTH W=6'4"	9'9"	10'11"	6' 0"	–	–	6' 1"	–	–	1' 9"	6'2"	4'8"	110±
LENGTH W=7'4"	11'9"	12'11"	7' 0"	–	–	–	6' 1"	–	1' 9"	6'2"	4'8"	130±
LENGTH W=8'4"	13'9"	14'11"	8' 0"	–	–	–	–	6' 1"	1' 9"	6'2"	4'8"	150±

* NOTE: a_3 BARS TO BE PLACED APPROX 2" BELOW TOP OF INLET COVER

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU YD CONC
4' 4"	3'6" x 6'4" x 7 1/2"	21" & SMALLER	0.38±
5' 4"	4'8" x 6'4" x 7 1/2"	24" & 30"	0.51±
6' 4"	5'8" x 6'4" x 7 1/2"	36" & 42"	0.64±
7' 4"	6'8" x 6'4" x 7 1/2"	48" & 54"	0.77±
8' 4"	7'8" x 6'4" x 7 1/2"	60" & 66"	0.90±



SECTION C-C



SECTION B-B

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

INLET OPENING = 6" × 5' 0"

Proj. no. 472-76-245-81127-000-000-001

MARCH 1984

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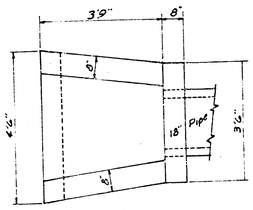
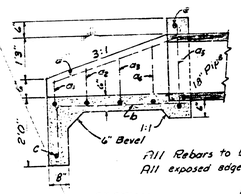


PLAN
Scale: ½"=1'0"



All Rebars to be #4.
All exposed edges to have ½" bevel.

SECTION
Scale: ½"=1'0"

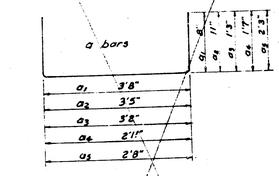
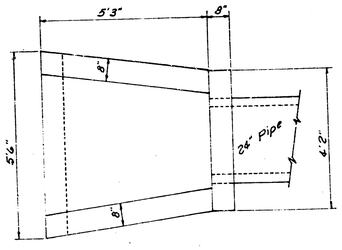
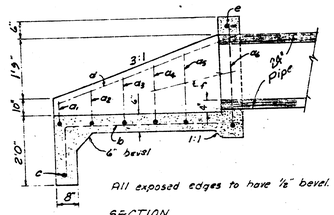


TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a_1	1	5'0"		3.34
a_2	1	5'3"		3.51
a_3	1	5'8"		3.79
a_4	1	6'1"		4.06
a_5	1	7'2"		4.79
b	5	5'6"		18.37
c	1	8'0"	——	2.67
d	2	6'0"	——	5.34
e	1	3'2"	——	2.18
Total Rebar, lbs				47.99
Conc, C.Y.				0.91

HEADWALL FOR 18" PIPE



PLAN
Scale: ½"=1'0"



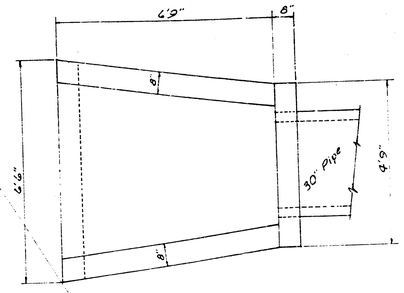
All exposed edges to have ½" bevel.

SECTION
Scale: ½"=1'0"

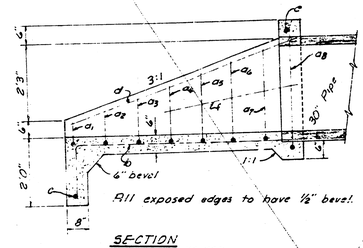
TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a_1	1	6'3"		4.51
a_2	1	7'0"		4.68
a_3	1	7'5"		4.96
a_4	1	7'10"		5.23
a_5	1	8'5"		5.51
a_6	1	10'1"		6.73
b	6	6'11"	——	27.72
c	1	5'0"	——	3.37
d	2	5'10"	——	7.79
e	1	3'10"	——	2.56
f	2	2'9"	——	3.42
Total Rebar, lbs.				76.73
Concrete, CY				1.52

All Rebars to be #4

HEADWALL FOR 24" PIPE



PLAN
Scale: ½"=1'0"



All exposed edges to have ½" bevel.

SECTION
Scale: ½"=1'0"

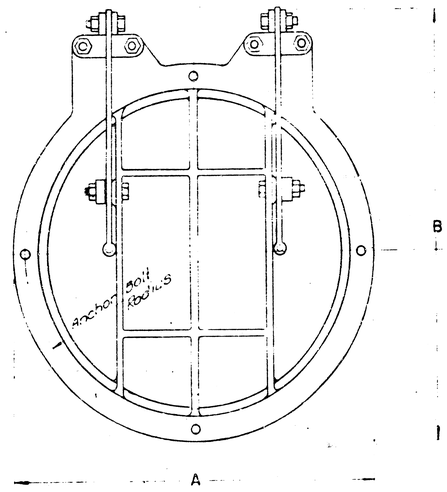
TABLE OF QUANTITIES				
BARS	NUMBER	LENGTH	SHAPE	WEIGHT
a_1	1	7'0"		4.68
a_2	1	7'4"		4.90
a_3	1	7'9"		5.18
a_4	1	8'2"		5.46
a_5	1	8'6"		5.68
a_6	1	9'0"		6.01
a_7	1	9'5"		6.29
a_8	1	11'1"		7.40
b	7	8'6"		39.07
c	1	6'0"	——	6.01
d	2	7'6"	——	10.02
e	1	4'5"	——	2.95
f	2	4'3"	——	5.68
Total Rebars, lbs				103.39
Concrete, C.Y.				2.01

All Rebars to be #4

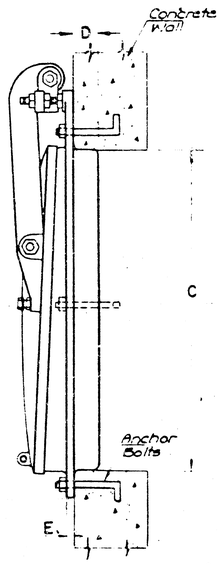
HEADWALL FOR 30" PIPE

18/20

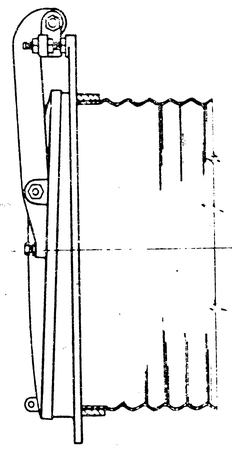
Proj. no. 472-76-245 81127-000-000-001



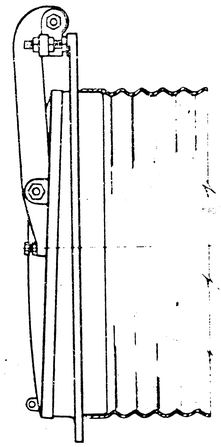
ELEVATION



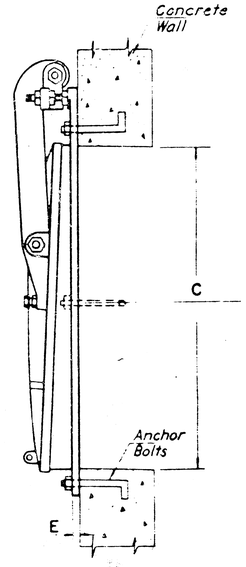
SIDE VIEW & SECTION
THRU CONCRETE WALL
SPIGOT BACK



SIDE VIEW & SECTION
THRU CORRUGATED METAL PIPE
SPIGOT BACK



SIDE VIEW & SECTION
THRU CORRUGATED METAL PIPE
SPIGOT BACK



SIDE VIEW & SECTION
THRU CONCRETE WALL
FLAT BACK

FLAT BACK & SPIGOT BACK CAST IRON FRAME AND GATE

INSTALLATION WITH CONCRETE WALL
& ATTACHED TO CORRUGATED METAL PIPE

Gate Size Diameter	A	B	C	D	E	Weight in Pound	Anchor Bolts Diam.	Projection	Pad
8"	13½"	14½"	9½"	2"	½"	50	½"	1¾"	2½"
10"	16"	16½"	11"	2"	½"	60	½"	1¾"	2½"
12"	19"	18½"	13"	2"	½"	85	½"	1¾"	2½"
15"	22½"	23½"	15½"	2"	¾"	130	¾"	2¾"	3½"
18"	26½"	28½"	19"	2"	¾"	165	¾"	2¾"	3½"
21"	28"	30½"	22¾"	2"	¾"	225	¾"	2¾"	3½"
24"	32"	35¼"	25¼"	2½"	¾"	300	¾"	2¼"	14¾"
30"	37"	42"	31½"	2½"	¾"	425	¾"	2¾"	3½"
36"	44"	49½"	37½"	3"	¾"	605	¾"	2¾"	22½"
42"	50⅜"	58"	43½"	3½"	1"	780	⅞"	3¼"	4½"
48"	54⅛"	63⅜"	49⅞"	3"	¾"	950	¾"	2"	19¾"
54"	60½"	72"	55⅝"	4"	1"	1395	1"	3½"	33"
60"	69"	80½"	62"	4"	1⅛"	1910	1"	3½"	33"
66"	80"	90"	68¼"	4"	1½"	2685	1"	3½"	33"
72"	86"	95½"	74¼"	4"	1½"	3850	1"	3½"	33"
84"	100"	112½"	86⅝"	4"	2"	5500	1"	3½"	42½"

NOTE: Automatic flap gates shall conform to the dimensions and approximate weights shown in the tables. The gate shall be installed in accordance with the manufacturers' recommendations.

When no water is against the face of the gate, the flap shall seat on the finished frame. Seating surfaces of both frame and flap shall be cast iron and machined to a close fit.

The gate flap, frame and links shall be cast iron. Anchor bolts assembly bolts and nuts shall be galvanized steel.

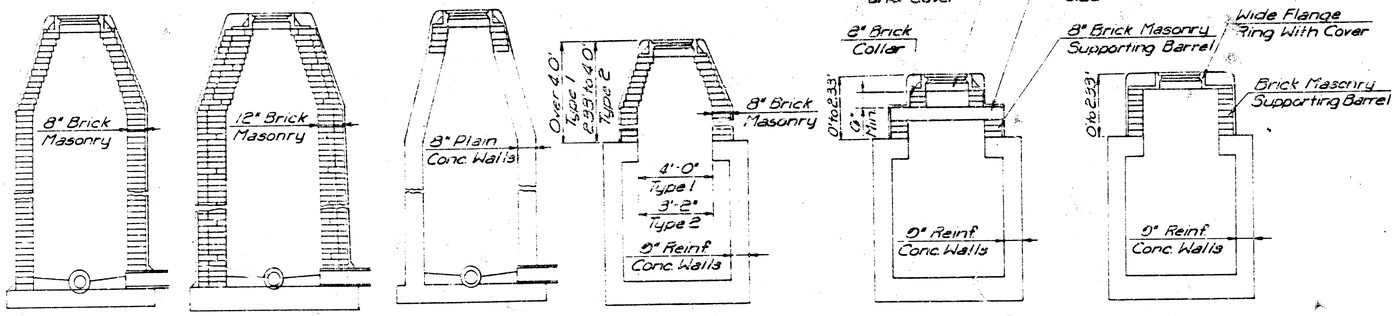
The gate is designed to withstand a maximum operating head of Ten (10) feet on the check side measured from the center line of the gate to the high water level.

The illustrations, notes and table of dimensions shown are for Armco Model 20C, however, a Standard Waterman Model F-10 Flap Gate or equal may be used.

AUTOMATIC FLAP GATE

Proj. no. 472-78-245-81127-000-006-G01

(19/20)



TYPE A
Single Wall Brick Masonry

TYPE B
Double Wall Brick Masonry

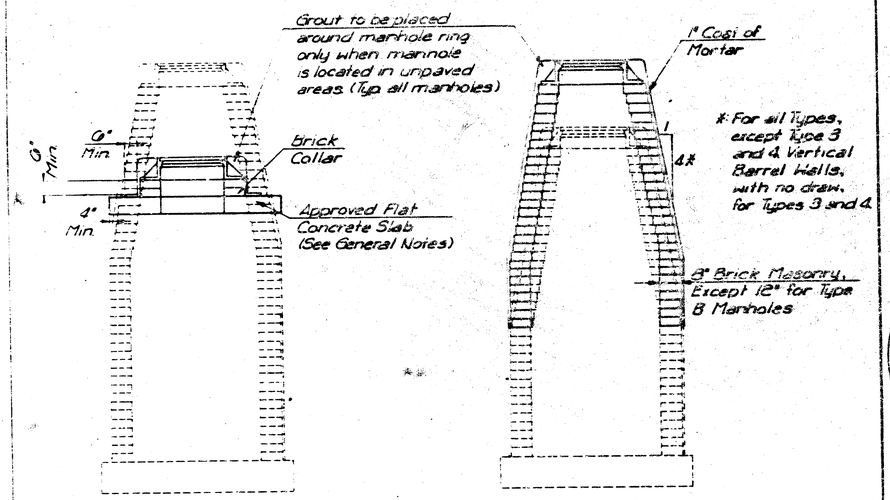
TYPE C & D
Cast in Place
(Type D is plastic lined & has brick draw)

TYPE 1 & 2
Reinforced Concrete

TYPE 3
Reinforced Concrete

TYPE 4
Reinforced Concrete
(Wide Flange Ring)

DEFINITION SKETCHES - CITY OF WICHITA STANDARD MANHOLES



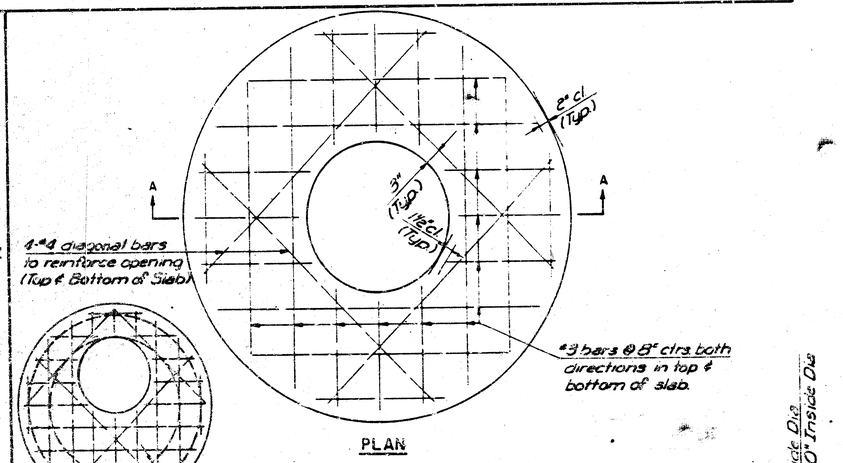
DOWNWARD ADJUSTMENT
(GREATER THAN 12")
All Types

THE APPROPRIATE PORTIONS OF THE DRAW AND BARREL OF TYPE A, B, C, D, 1 AND 2 MANHOLES SHALL BE REMOVED. A FLAT CONCRETE SLAB SHALL BE PLACED AND THE RING AND COVER RESET. ALL WORK AND MATERIALS SHALL CONFORM TO THE DETAILS SHOWN AND THE GENERAL NOTES.

COURSES OF BRICK BARREL SUPPORTING THE WIDE FLANGE RING FOR TYPE 4 MANHOLES AND FLAT CONCRETE SLAB FOR TYPE 3 MANHOLES SHALL BE REMOVED AS NECESSARY PRIOR TO RESETTING THE WIDE FLANGE RING OR FLAT CONCRETE SLAB AND RING. ALL WORK AND MATERIALS SHALL CONFORM TO THE DETAILS SHOWN AND THE GENERAL NOTES.

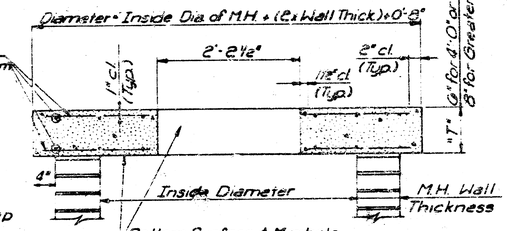
UPWARD ADJUSTMENT
(GREATER THAN 12")
All Types

THE ENTIRE DRAW OF TYPES A, B, C, D, 1 AND 2 MANHOLES SHALL BE REMOVED, THE MANHOLE BARREL RAISED THE APPROPRIATE AMOUNT, A NEW DRAW CONSTRUCTED, AND THE RING AND COVER RESET. THE UPPER PORTION OF TYPE 3 MANHOLES SHALL BE RAISED TO THE BOTTOM OF THE FLAT CONCRETE SLAB. THE BRICK MASONRY BARREL SUPPORTING THE SLAB SHALL BE RAISED THE APPROPRIATE AMOUNT, AND THE SLAB AND RING AND COVER RESET. THE WIDE FLANGE RING AND COVER OF TYPE 4 MANHOLES SHALL BE REMOVED. THE BRICK MASONRY BARREL SUPPORTING THE RING SHALL BE RAISED THE APPROPRIATE AMOUNT AND THE RING AND COVER RESET. ALL WORK REQUIRED FOR A GREATER THAN TWELVE INCH (12") UPWARD ADJUSTMENT OF ANY MANHOLE SHALL BE ACCOMPLISHED WITH BRICK MASONRY IN ACCORDANCE WITH THE DETAILS SHOWN AND THE GENERAL NOTES.



PLAN

PLAN
ALTERNATE OPENING LOCATION



*: To be used only if necessary to keep ring and cover from conflicting with curb or combined curb and gutter. Flat concrete slab shall be rotated on existing manhole to position ring and cover in pavement or behind curb.

opening to be plastic lined when Slab is Constructed for sanitary sewer manhole.

SECTION A-A

FLAT CONCRETE SLAB DETAILS

19
19-A

MANHOLE ADJUSTMENT DETAILS

CITY OF WICHITA, KANSAS
M. E. LINDEBAK – CITY ENGINEER

Designed by | Checked by | Job No.