

SLUDGE DRYING & WINDROWING APRON

PROJECT NO.

576-80-245-50400-610-000-000

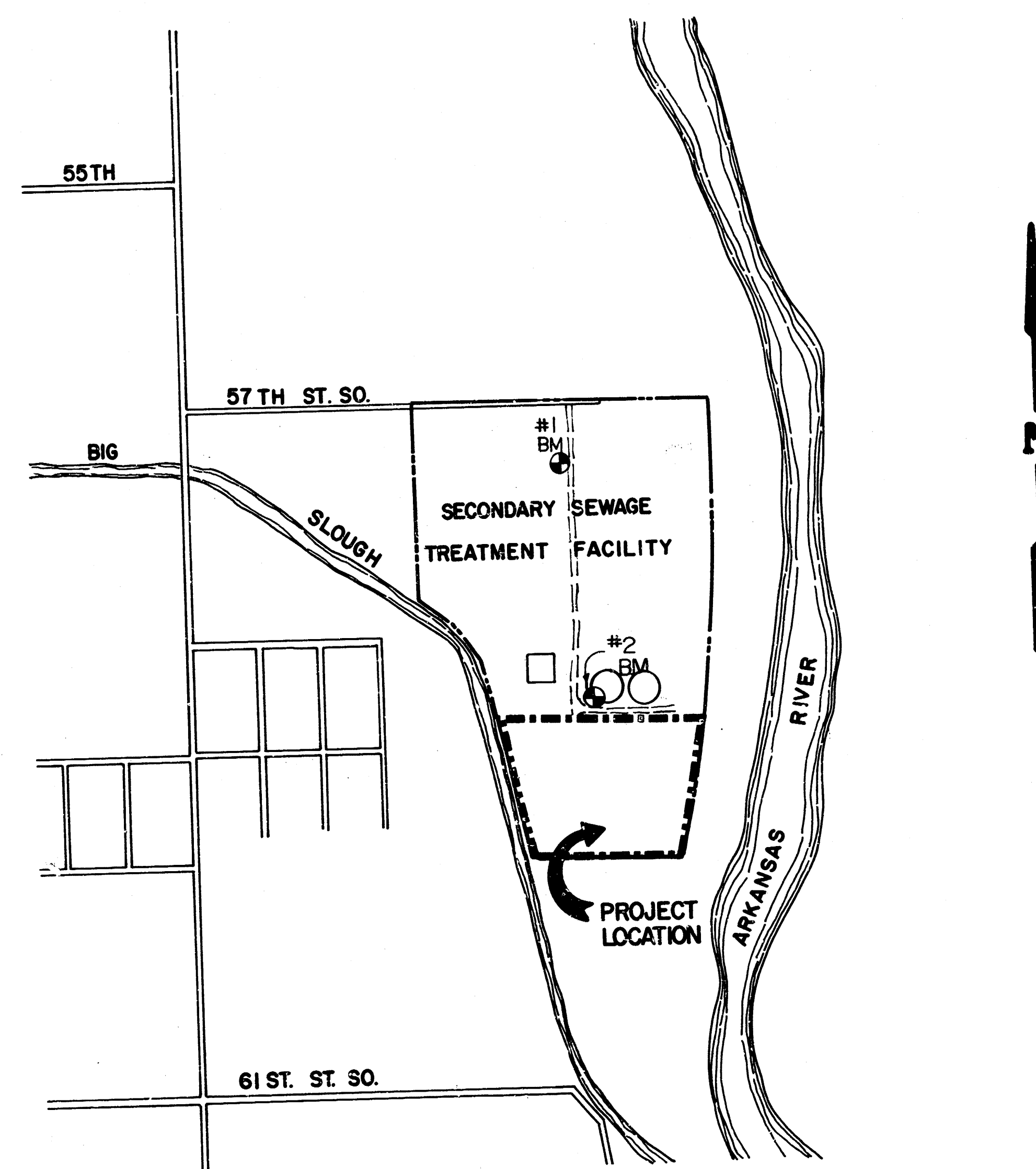
CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, CITY ENGINEER
JULY, 1985

GENERAL NOTES:

- 1) THE ASPHALTIC CONCRETE PAVEMENT SHALL BE PAID AS SQUARE YARDS OF 6" ASPHALTIC CONCRETE (4" BITUMINOUS BASE AND 2" ASPH. SURF. COURSE.)
- 2) 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.
- 3) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
- 4) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS.
- 5) 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.
- 6) CONCRETE SHALL CONFORM TO THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR CONCRETE PAVEMENT. ALL EXPOSED EDGES OF INLET TOPS SHALL BE FINISHED WITH AN APPROVED EDGING TOOL.
- 7) REINFORCING STEEL SHALL BE AS SPECIFIED BY THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR CONCRETE PAVEMENT.
- 8) COMPACTED FILL AND SUBGRADE PREPARATION SHALL BE AS SPECIFIED BY THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR ASPHALT PAVEMENT.

BENCH MARKS:

- BM #1 "□" CUT ON NORTHEAST CORNER 8'x10' CONCRETE, K&E BOX AT SOUTH-WEST CORNER OF PLANT ENTRANCE.
- BM #2 "□" CUT ON SOUTH END OF CLARIFIER LEFT OF BASE LINE 800 FEET EAST. ELEV. = 82.785

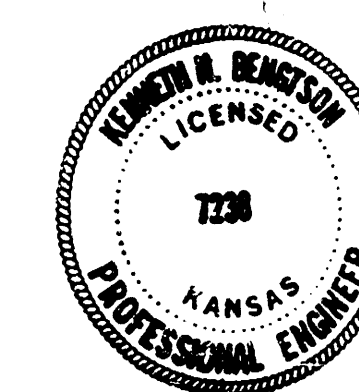


INDEX TO DRAWINGS

1. TITLE SHEET
2. EXISTING TOPOGRAPHY
3. PROPOSED IMPROVEMENTS
4. PAVING, CONC. SWALE & WLT WELL DETAILS/
BORING LOGS 1-4
- 5-6 X-SECTIONS

PLANS PREPARED BY

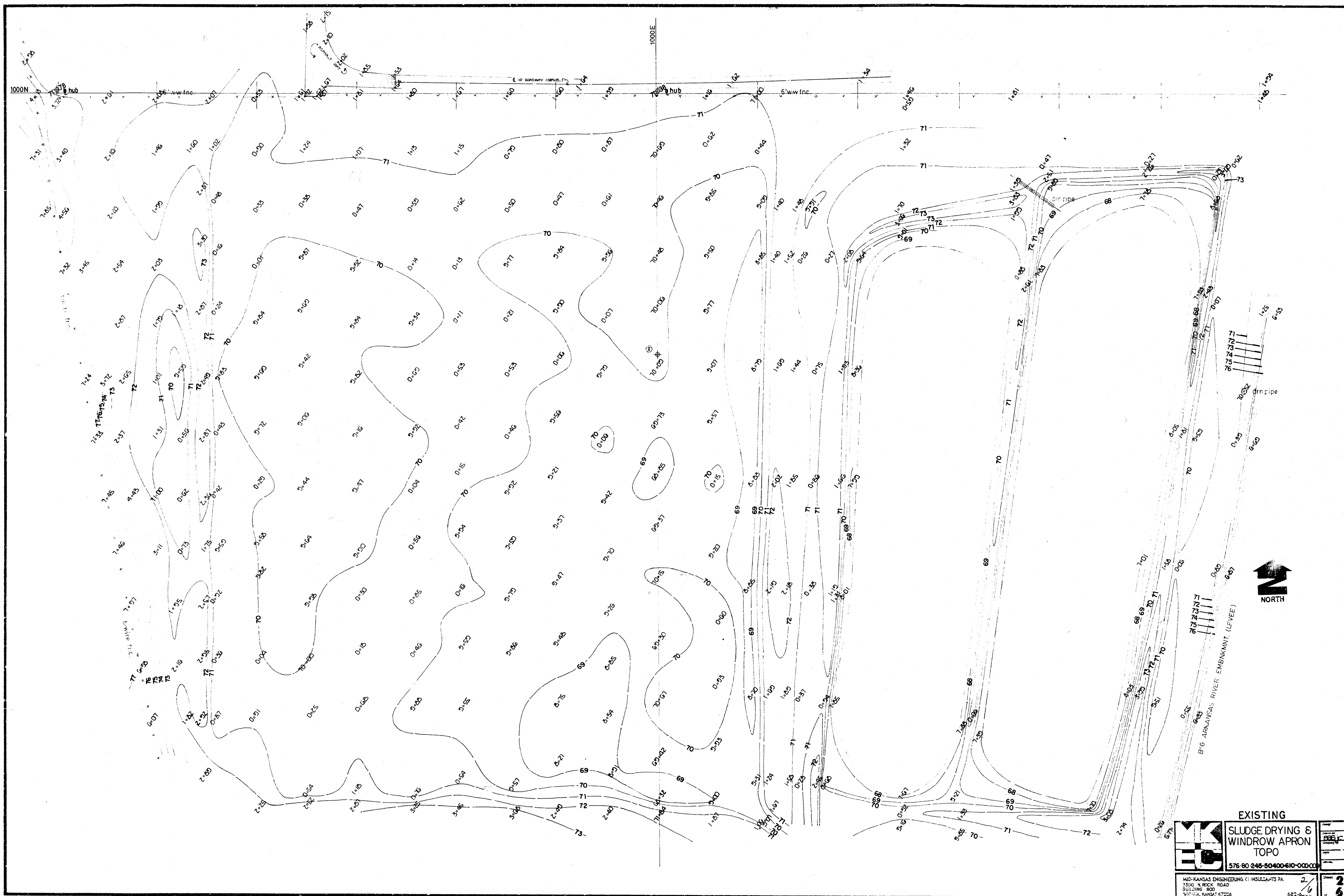
MID-KANSAS ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS



SHEET 3 REVISED NOV. 1, 1985

	CITY OF WICHITA, KANSAS SLUDGE DRYING & WINDROWING APRON PROJECT NO. 576-80-245-50400-610-000-000	Design
	TITLE SHEET	Drawn by
		Checked by
		Date
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226	682-6561	Sheet 1 of 6

FILMED FROM THE BEST
AVAILABLE COPY



Hub
1. 30' No. E/W Fenceline
2. 22.5' E/W Fenceline

Remove & Replace
Exist. Woven Wire
Gate.

Saw, Remove, Replace w/ 6" AC PVMT. & Match (Approx. 180 S.Y.)

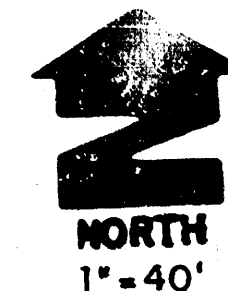
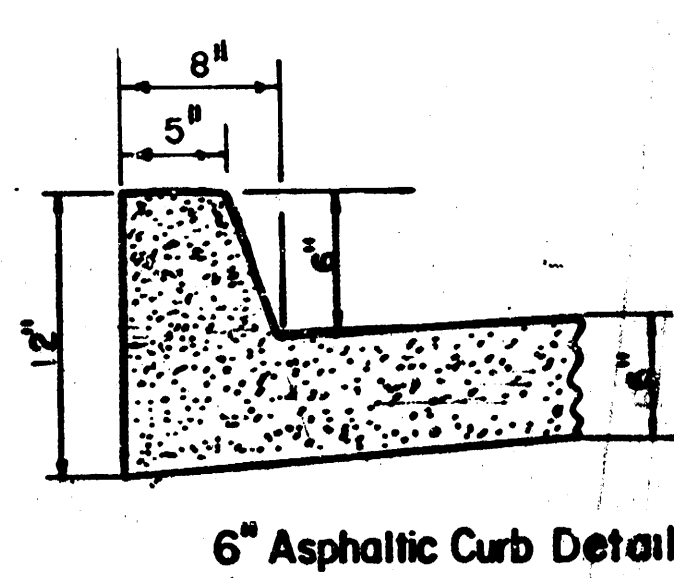
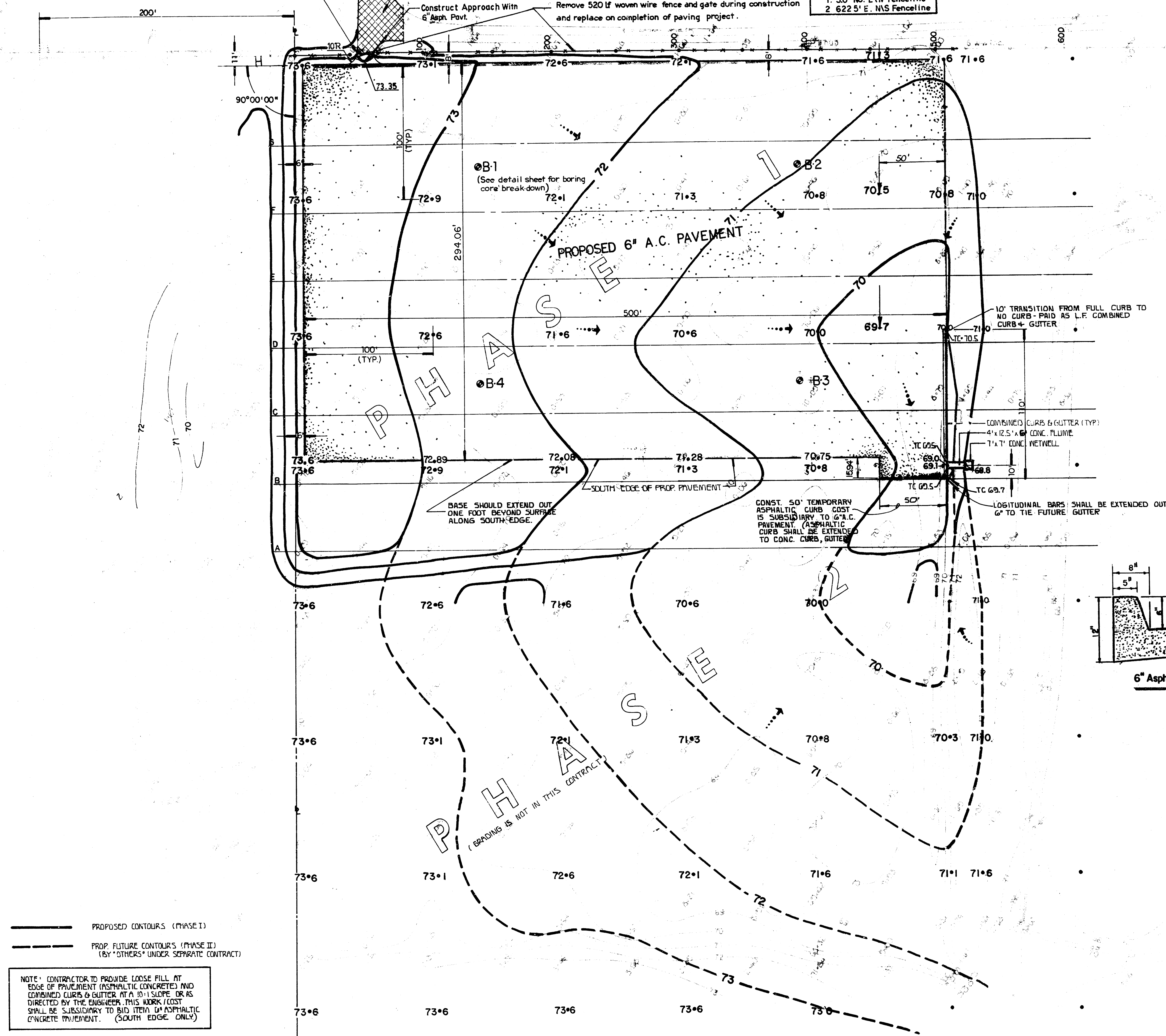
Construct Approach With
6" Asphalt Pavt.

Remove 520' of woven wire fence and gate during construction
and replace on completion of paving project.

Hub
1. 30' No. E/W Fenceline
2. 22.5' E/W Fenceline

NOTE: MATERIAL NECESSARY TO CONSTRUCT FILL AS INDICATED BY CROSS-SECTIONS
TO FACILITATE ASPHALT PAVEMENT CONSTRUCTION HAS BEEN STOCKPILED AT
PROJECT SITE. CONTRACTOR WILL BE REQUIRED TO USE THE STOCKPILED
MATERIAL TO CONSTRUCT NECESSARY FILLS. COST FOR MOVING & PLACING
SUCH MATERIAL SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR PHASE I
SITE WORK. CONTRACTOR SHOULD INSPECT PROJECT SITE TO ASCERTAIN THE
AMOUNT OF WORK INVOLVED.

	EXCAVATION	COMPACTED FILL
+10%	9556.30 C.Y.	5703.40 C.Y.
	955.63	570.34
TOTAL:	10511.93 C.Y.	6273.74 C.Y.
		MANIPULATION: 17576.30 S.Y.



— PROPOSED CONTOURS (PHASE I)
- - - PROP. FUTURE CONTOURS (PHASE II)
(BY OTHERS UNDER SEPARATE CONTRACT)

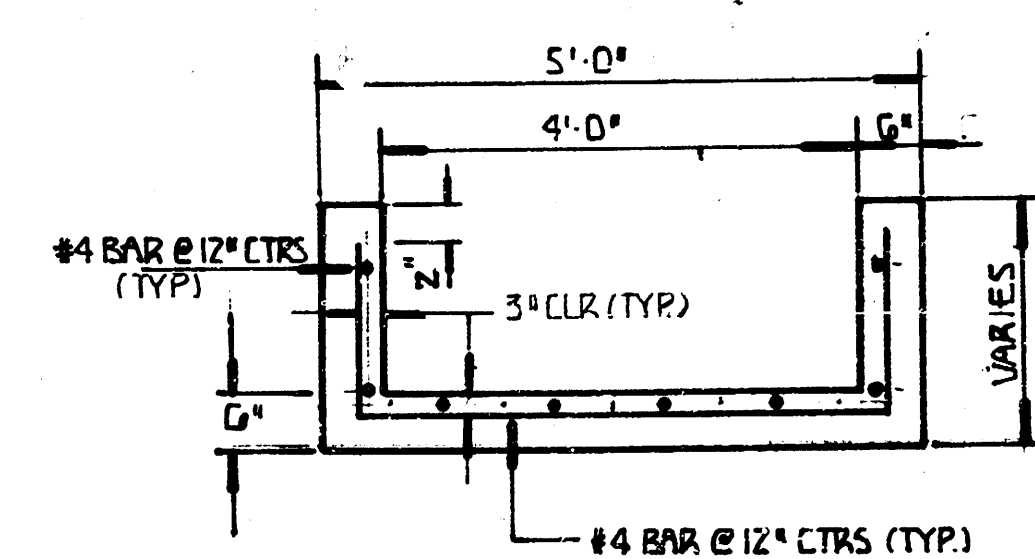
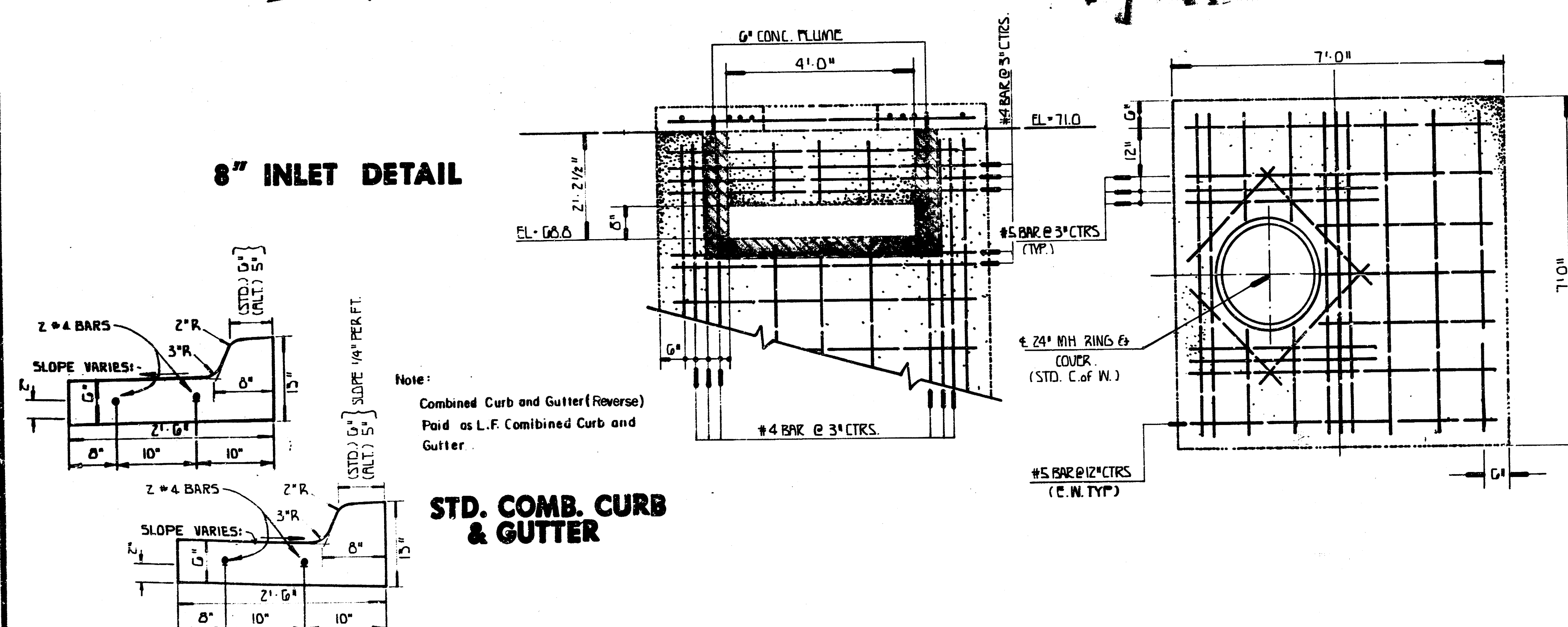
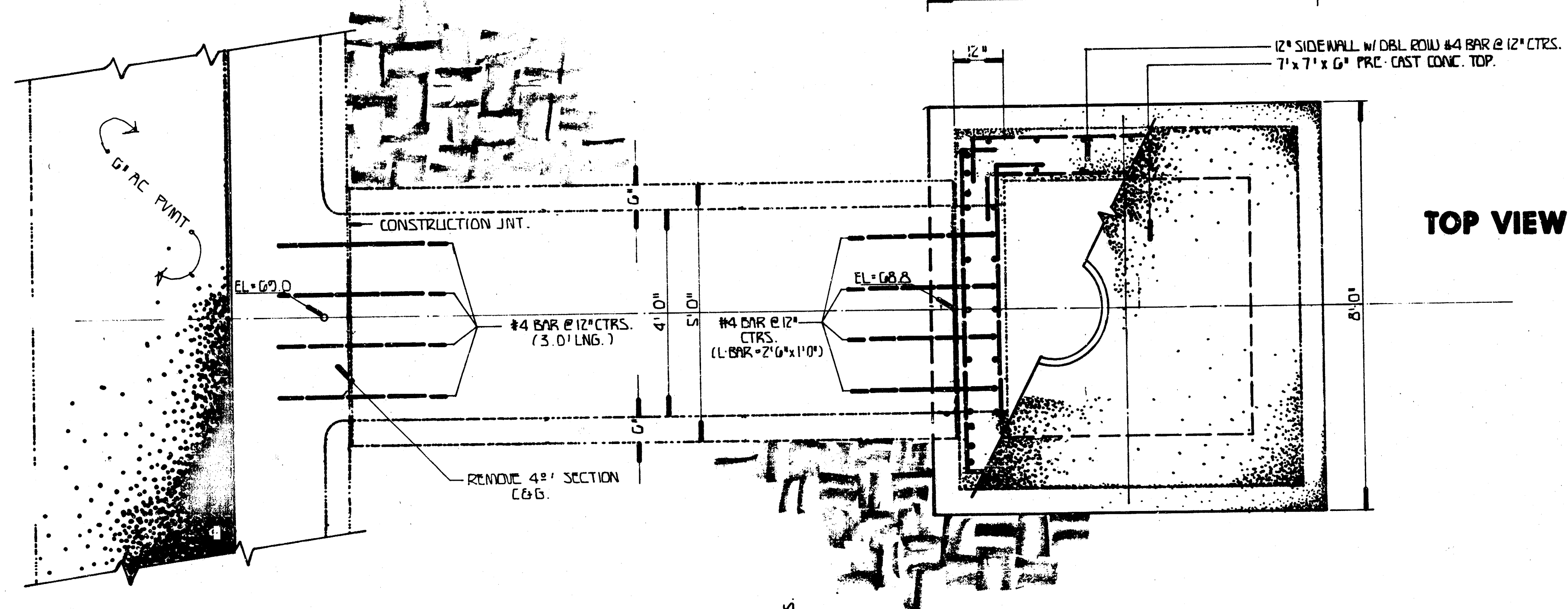
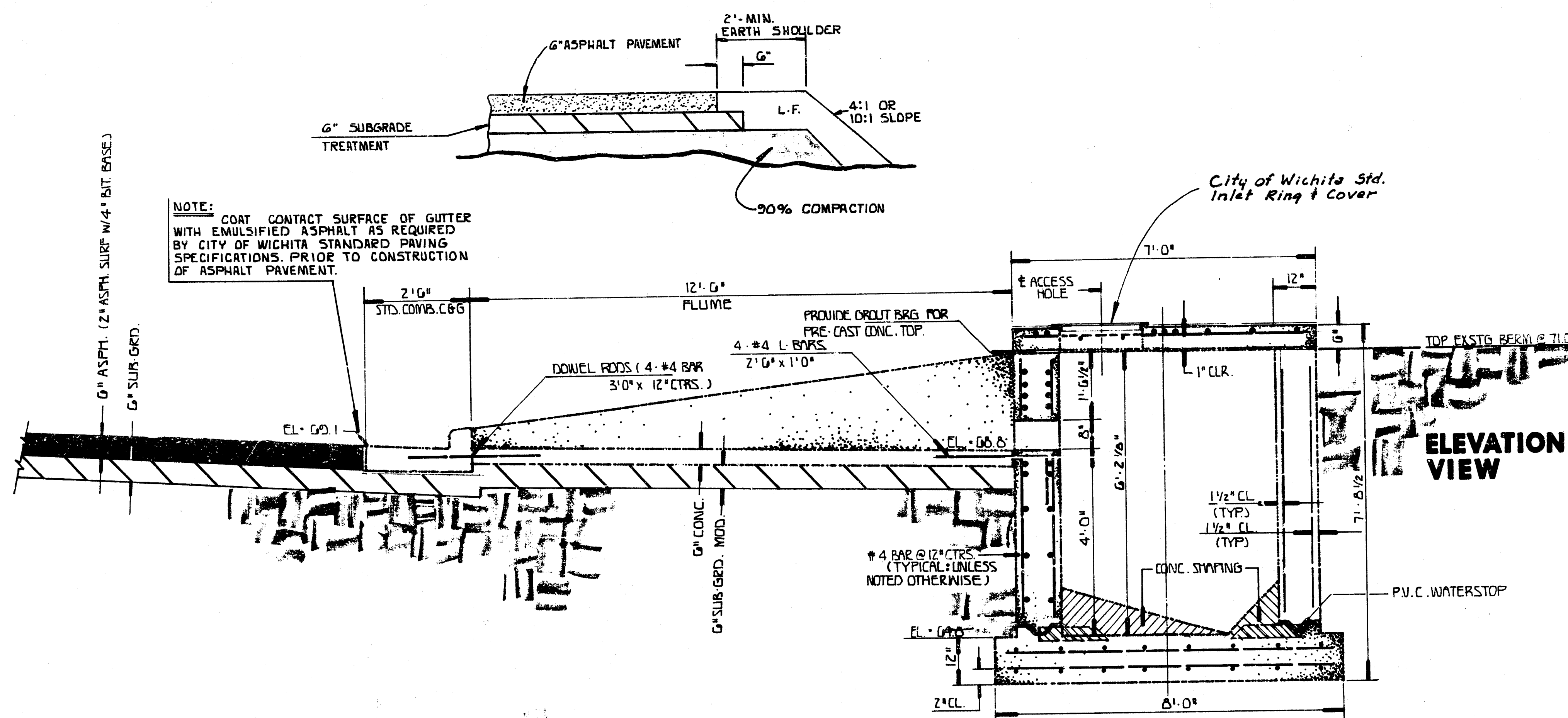
NOTE: CONTRACTOR TO PROVIDE LOOSE FILL AT
EDGE OF PAVEMENT (ASPHALTIC CONCRETE) AND
COMBINED CURB & GUTTER AT A 10:1 SLOPE OR AS
DIRECTED BY THE ENGINEER. THIS WORK/COST
SHALL BE SUBSIDIARY TO BID ITEM OF ASPHALTIC
CONCRETE PAVEMENT. (SOUTH EDGE ONLY)

REVISED NOV. 1, 1985

PROPOSED REGRADING

	SLUDGE DRYING & WINDROW APRON TOPO	
	376-80-245-50400-610-000-000	
	MID-KANSAS ENGINEERING CONSULTANTS PA 3300 N. ROCK ROAD BURLINGAME, MO MO-KAN 64507258	

FILMED FROM THE BEST
AVAILABLE COPY...



WICHITA TESTING LABORATORIES 809 EAST WASHINGTON ST. WICHITA, KANSAS 67202				PROJECT Proposed Sludge Drying and Window Apron 57th Street South Wichita, Kansas			
BORING LOG							
Boring Method: <u>6-in. continuous flight auger</u>				Standard Penetration Test		Boring No. <u>B-1</u>	
Undersheeted Soil Sample: <u>3-in. dia. 18-in. solid rod</u>				4-in. dia. Hammer		30-in. Fall	
Moisture Content, % <u>8.9 Dry Density, pcf</u>				Penetration Resistance: <u>Mo-Blox</u> per foot		Date: <u>6/28/75</u>	
Elevation	Depth	Soil Sample	Description of Materials	Standard Penetration Test	Remarks		
71.0	0	SM	Fill: Silty Sand; black mottled with light grayish black; 5-15% low plastic fines; fine sand; moist, with broken concrete and brick.		Dry hole immediately after drilling.		
70.0	1	SM					
69.0	2	SM	Silty Sand; pale brown; mottled with dark grayish black; 5-15% fine sand; moist; medium dense.				
		SP	Sand; pale yellowish-brown; fine sand; moist; medium dense.				
					4		
					5		
					7	W-12	
65.5	5.5						

WICHITA TESTING LABORATORIES ONE EAST ANNECOTT ST. WICHITA, KANSAS 67202				PROJECT Proposed Sludge Drying and Window Apron 57th Street South Wichita, Kansas			
BORING LOG				Standard Penetration Test		Boring No. <u>3</u>	
Boring Method: <u>4 1/2</u> inch outside flight auger				Undersized Soil Sampler: <u>3</u> in. x 18 in. split tube		Sheet 1 of 1	
Weather Contact, % <u>0</u> Dry Density, <u>pcf</u>				Penetration Resistance: <u>0</u> blows per foot		Date: <u>6/28/85</u>	
Elevation	Depth	Sample	Description of Materials	Standard Pen. No.	Remarks		
70.1	0	CL	Fill: Sandy Clay: black mottled with pale brown; 70-75% fine sand; moist; low plasticity; stiff.		Dry hole immediately after drilling.		
68.6	1.5	CL	Fill: Silty Clay: dark brown mottled with pale and yellowish-brown; 10-15% fine sand; moist; medium to high plasticity; stiff.				
67.6	2.5	SP	Sand: pale yellowish-brown; fine sand; moist; medium dense.				
64.6	5.5				N=15		

WICHITA TESTING LABORATORIES ONE EAST WINDSOR DR. WICHITA, KANSAS 67201		PROJECT Proposed Sludge Drying and Windrow Agron 37th Street South Wichita, Kansas	
BORING LOG			
Boring Method: <u>Ch. continuous flight auger</u>		Standard Penetration Test	
Underdrilled Soil Sampler: <u>3-in. od. H&M-swelled tank</u>		Sheet <u>1</u> of <u>1</u>	
W-Measure Corrosion, % <u>0-Dry Density,pcf</u>		Penetration Resistance: <u>0</u> Blows per foot	
		Date: <u>6/28/85</u>	

C. Section	Depth	Boring Number	Description of Materials	Standard Penetration Test		Remarks
				Blows in	ft.	
	70.7	0	SM Fill: <u>stiff Sand; black, mottled with dark grayish-black; 5-15% low plastic fines; fine sand; moist medium dense, with broken concrete and brick.</u>			Dry hole immediately after drilling.
	69.2	1.5	CL <u>Fill: stiff Clay; dark brown; medium to fine tan brown and yellowish-brown; 10-15% fine sand; moist; medium to high plasticity; stiff.</u>			
	68.2	2.5	SP <u>Sand: pale yellowish-brown; fine sand; moist; medium dense.</u>			
	65.2	5.5				

WICHITA TESTING LABORATORIES P.O. BOX 100000 ST. LOUIS, MISSOURI 63110				PROJECT Proposed Sludge Drying and Window Agron 3708 Street South Wichita, Kansas			
BORING LOG				Standard Penetration Test		Boring No.	No.
Boring Method: S-R continuous flight auger				Helm. Method		Sph. Pen	Blow Count
Undersized Soil Sample: 10-20 mm retained size							
Water Content, %				Penetration Resistance: lb/in ² per Foot		Date:	6/28/84
Dry Density, pcf							
Elevation (Feet)	Depth (Feet)	Soil Description	Remarks				
69.9	0	SP Fill; Sandy Silt; dark grayish-brown mottled with black; 10-15% fine sand; moist; medium dense.	Dry hole immediately after drilling.				
68.9	1	SM Silty Sand; pale brown mottled with yellowish-brown; 5-10% low plastic fines; fine sand; moist; loose.					
67.4	1.5	SP Sand; pale yellowish-brown; fine sand; moist; loose.					
64.4	5.5						N=5

• PAVEMENT SECTION & WETWELL DETAILS •

FILMED FROM THE BEST
AVAILABLE COPY

7

75



50

50

50

三

17.5

**FILMED FROM THE BEST
AVAILABLE COPY**

Excavation
{(112)(1944.4+5703.4)+2093-
0.8(548.3)} = 9008.02 CY

GRAND TOTALS:
MANIP = 1944.4 CY
CUT = 548.3 CY
CF = 5703.4 CY
LF = 209.3 CY

From Sta. H to existing Grading Ground

M=0
C=0
CF=0
LF=0

8
MANIP = 16.9 CY
CUT = 8.9 CY
CF = 17.7 CY
LF = 2.4 CY

SHEET TOTALS:
MANIP 923.5 CY
CUT 213.0 CY
CF 1471.3 CY
LF 83.9 CY

