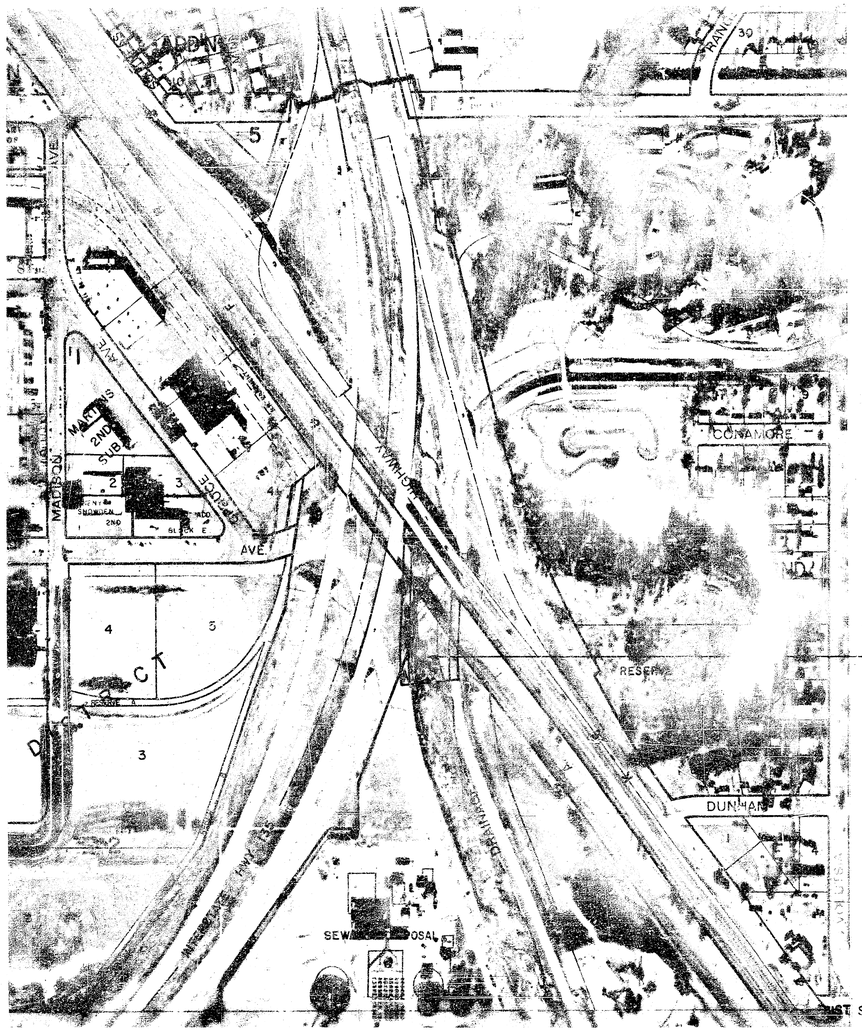
RECONSTRUCT CANAL LINING

ARKANSAS RIVER TO K-15 HIGHWAY



N

1" = 200'

Construct Concrete Lining to connect existing llnings

GENERAL NOTES

1. THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE BID PRICE FOR LIN. FT. OF CANAL LINING; ANY NECESSARY PIPE, CONCRETE BOX STRUCTURE, HEADWALLS, FLAP GATES, UNDERDRAIN, DRAIN MATERIAL AND 6" FILTER BLANKET.
2. LUMP SUM CLEARING RIGHT-OF-WAY SHALL INCLUDE ANY AND ALL ITEMS WHOSE REMOVAL IS NECESSARY TO CONSTRUCT PROJECT.
3. POWER POLE TO BE RELOCATED BY "OTHERS".
4. FIELD ENGINEER SHALL TAKE CROSS-SECTIONS BEFORE AND AFTER CONSTRUCTION. THESE CROSS-SECTIONS SHALL BE USED TO DETERMINE FINAL PAY QUANTITIES FOR EARTHWORK.
5. COST OF PROVIDING SITE PROTECTION DURING CONSTRUCTION, (I.E., DEWATERING, COFFERDAM, PUMPING, ETC.), SHALL BE INCIDENTAL TO PROJECT.
6. CONTRACTOR IS TO CONTACT DAVID STOWE, DIRECTOR OF OPERATIONS AND MAINTENANCE AT 268-4422 FOR DISPOSAL OF ALL EXCESS MATERIAL AT CHAPIN LANDFILL.

Index

Sheet 1 Cover Sheet
Sheet 2 Plan & Profile
Sheet 3 Canal Lining Detail
Sheet 4 Outfall Structures
Sheet 5 Std. RC Manholes
Sheet 6 Underdrain Details
Sheet 7 Contraction Joint
Sheet 8,9 X-Sections

R.W. BRUGGEMAN, DIRECTOR OF ENGINEERING / CITY ENGINEER

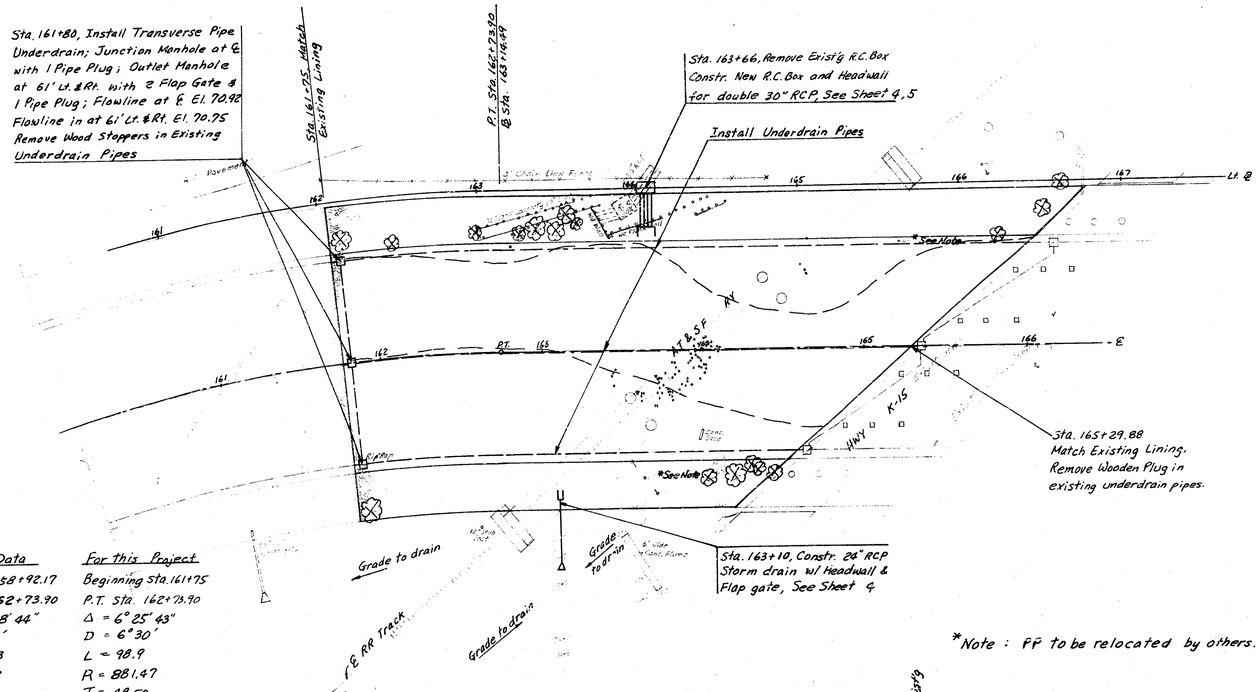
CITY OF WICHITA, KANSAS

PROJECT NO. 468 76 245 81104 000 000 001

DATE: _____

1/9 (1/9)

FILMED FROM THE BEST AVAILABLE COPY

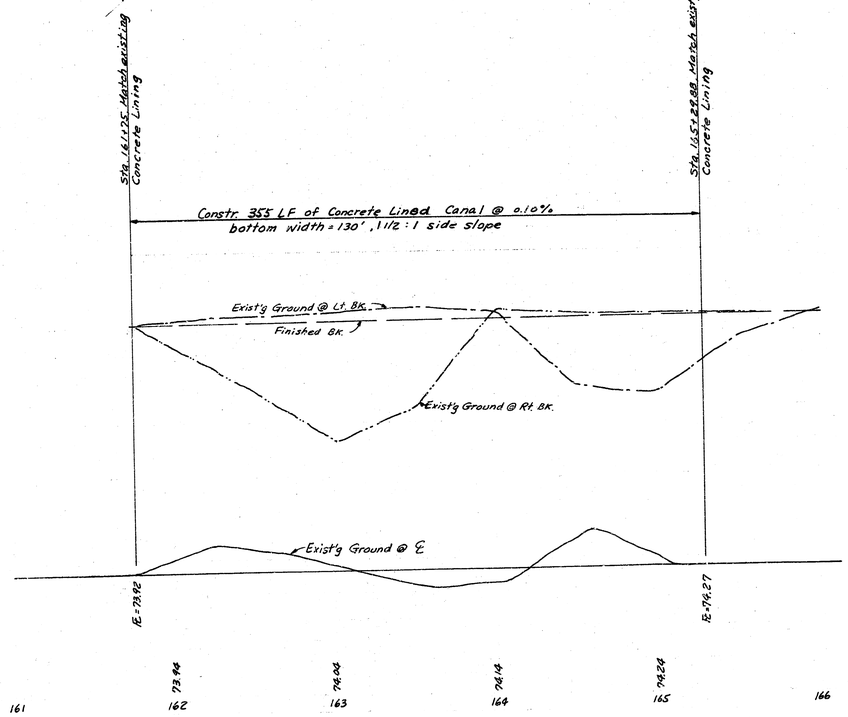


Curve Data	For this Project
P.C. Sta. 158+92.17	Beginning Sta. 161+75
P.T. Sta. 162+73.90	P.T. Sta. 162+73.90
Δ = 24° 48' 44"	Δ = 6° 25' 43"
D = 6° 30'	D = 6° 30'
L = 381.73	L = 98.9
R = 881.47	R = 881.47
T = 193.90	T = 49.50

*Note : PP to be relocated by others.

Scale : Plan 1" = 40'
Profile 1" = 40' Horiz.
1" = 5' Vert.

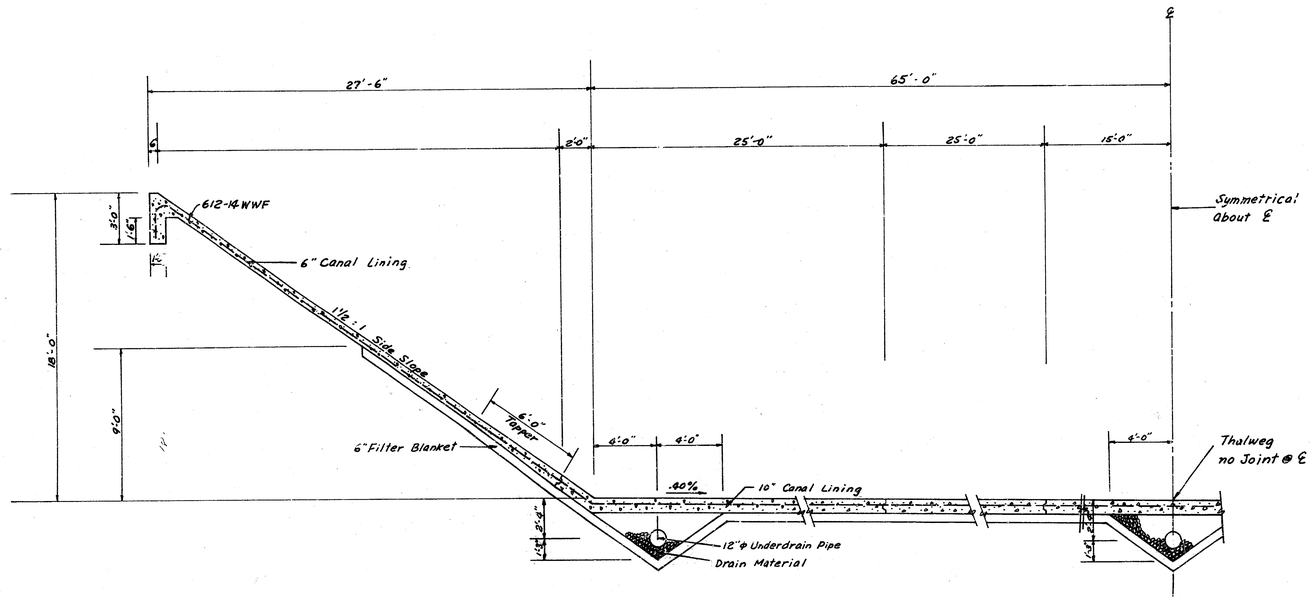
B.M. 93.068 City Std. B.M Disc, Hydraulic & Wassall. 42 ft. S. & 43.8 ft. E of ℄ Both
B.M. 98.28 M in Mueller Fire Hydrant @ SW Cor. Madison & Wassall



2/9 (2/9)

Reconstruct Canal Lining - Arkansas River to K-15 Hwy
Project No: 468-76-245-81104-000-000-001

FILMED FROM THE BEST AVAILABLE COPY

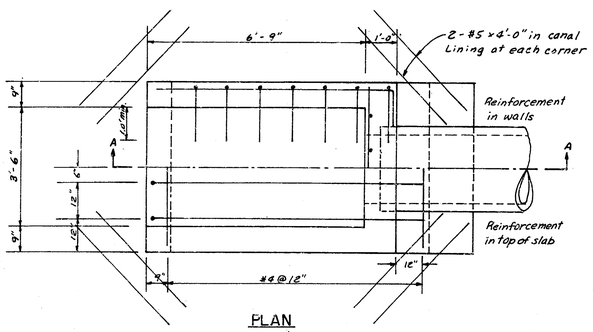


CANAL LINING DETAIL

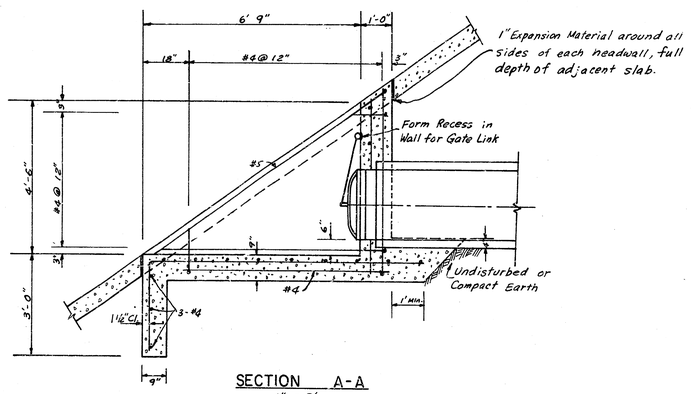
Scale: 1" = 4'-0"

FILMED FROM THE BEST AVAILABLE COPY....

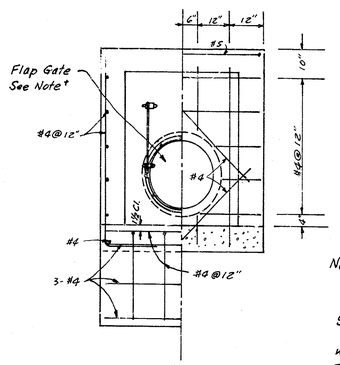
HEADWALL STRUCTURE AT STA. 163+10



PLAN
1" = 2'



SECTION A-A
1" = 2'

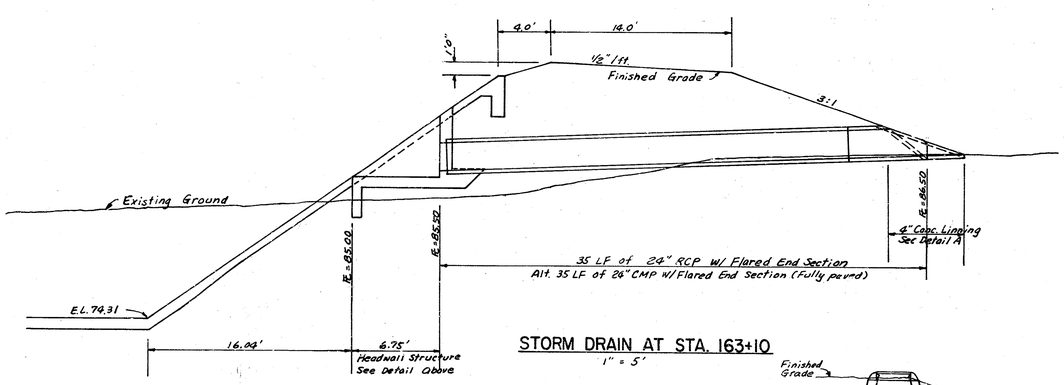


ELEVATION HALF SECTION
1" = 2'

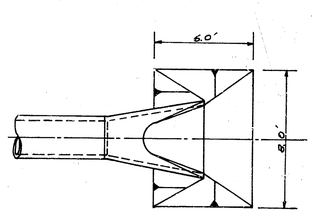
Note* The Gate Flap, frame and links shall be cast iron, Anchor bolts, assembly bolts and nuts shall be galvanized steel.

The gate shall be designed to withstand an operating head of twenty (20) feet of water on the check side measured from the center line of the gate to the high water level. The gate shall be installed in accordance with manufacturer's recommendations.

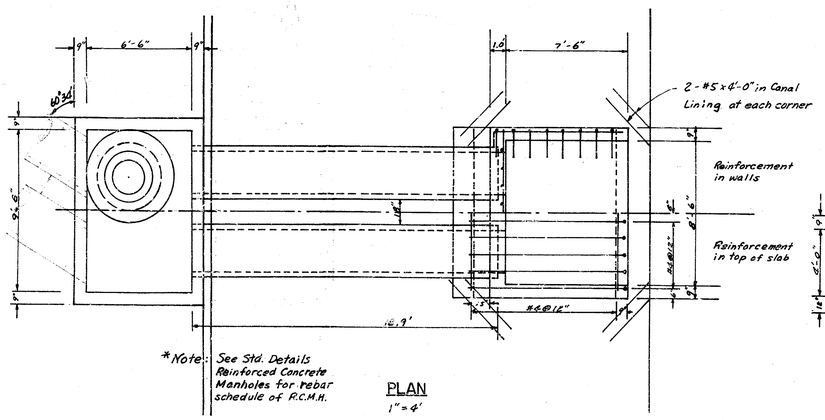
Gates to have one shopcoat of zinc dust paint followed with two field coats of aluminum paint.



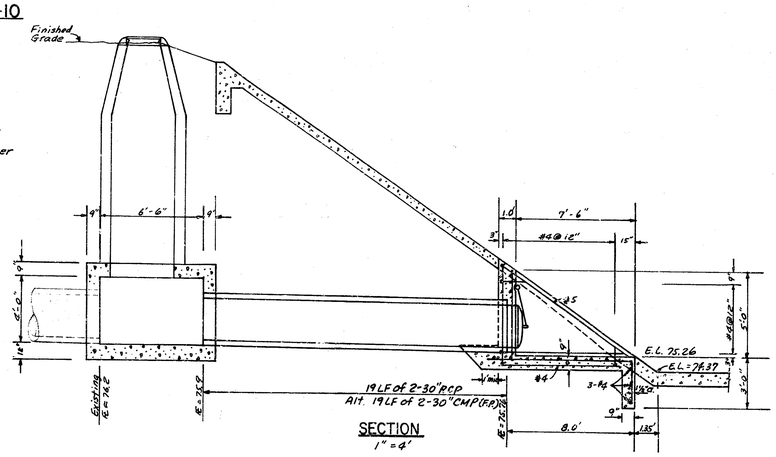
STORM DRAIN AT STA. 163+10
1" = 5'



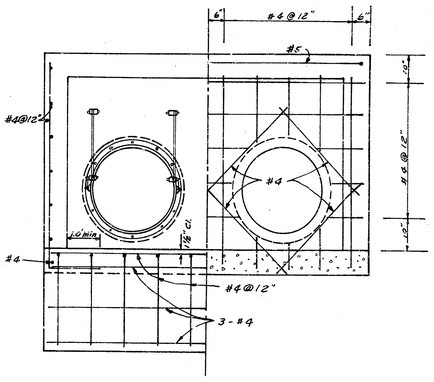
DETAIL A
1" = 4'



PLAN
1" = 4'



SECTION
1" = 4'



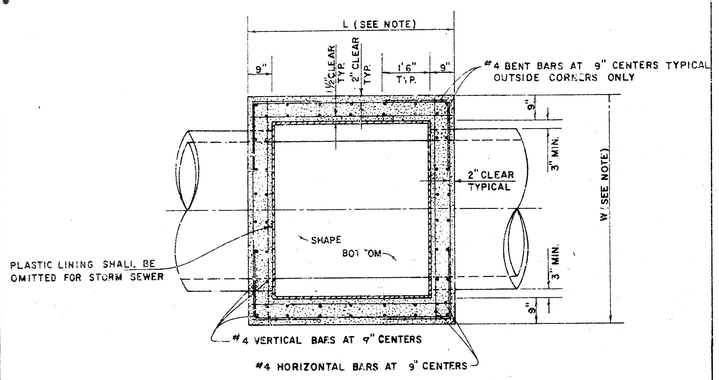
ELEVATION HALF SECTION

HEADWALL
1" = 2'

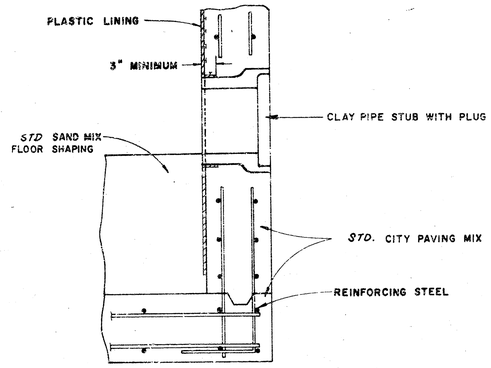
RC MANHOLE & OUTFALL STRUCTURE AT STA. 163+66

4/9 (4/9)

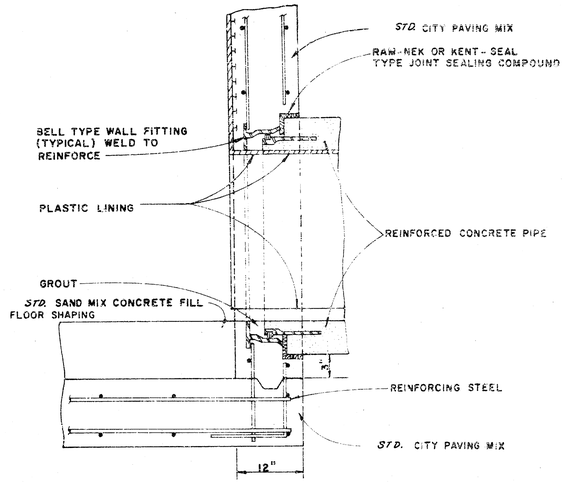
DETAILS OF OUTLET STRUCTURES
RECONSTRUCT CANAL LINING ARK.R TO K-15



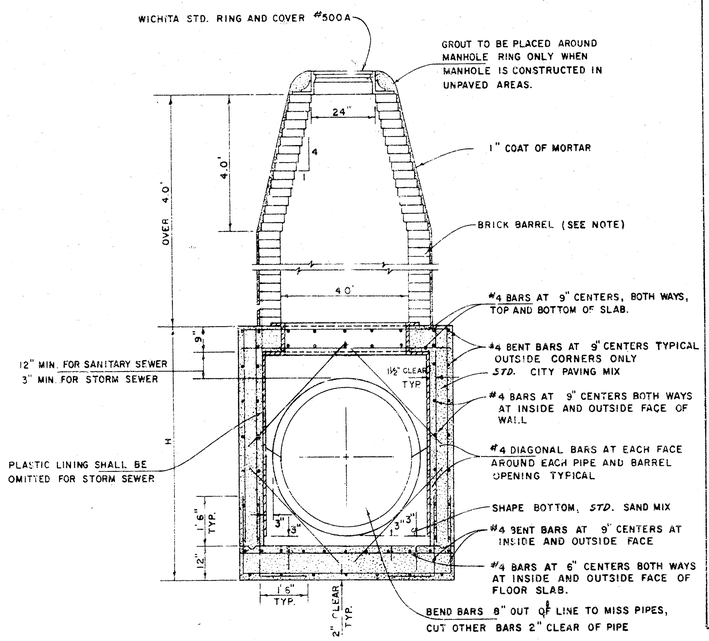
TOP VIEW



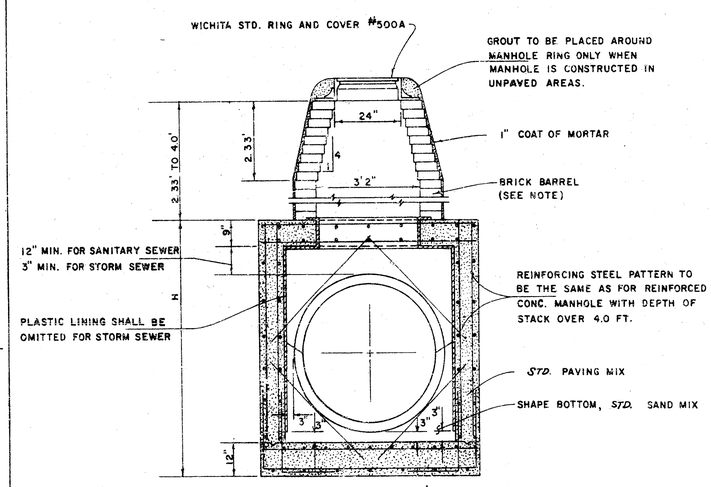
V.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



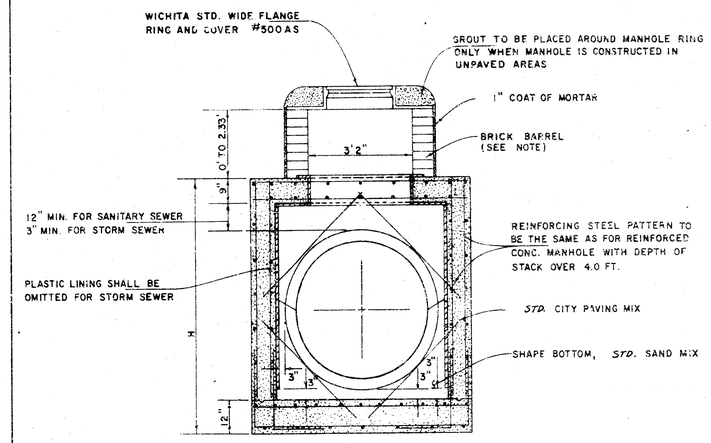
R.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'
SCALE 1" = 2'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'
SCALE 1" = 2'



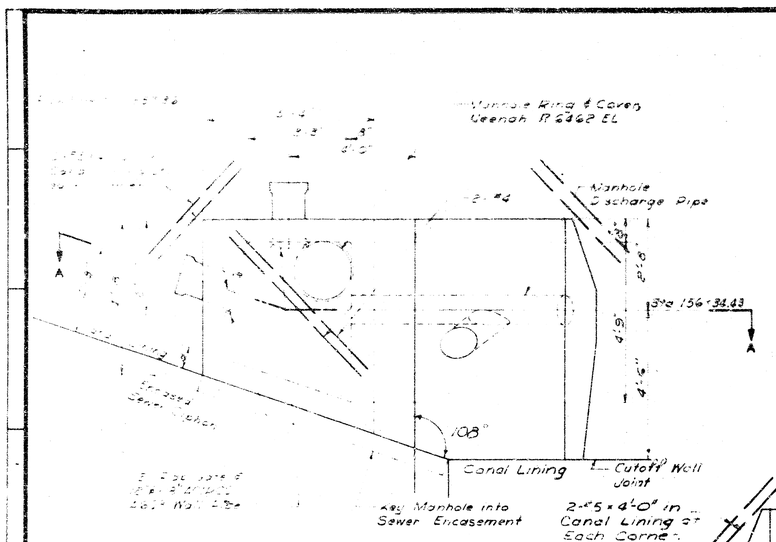
REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'
SCALE 1" = 2'

NOTE :
BRICK BARRELS LESS THEN 16' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12". BRICK BARRELS MORE THEN 16' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5'6" FOR BRICK BARRELS WITH 8" WALLS AND 6'2" FOR BRICK BARRELS WITH 12" WALLS.

STANDARD DETAILS
REINFORCED CONCRETE MANHOLES
CITY OF WICHITA

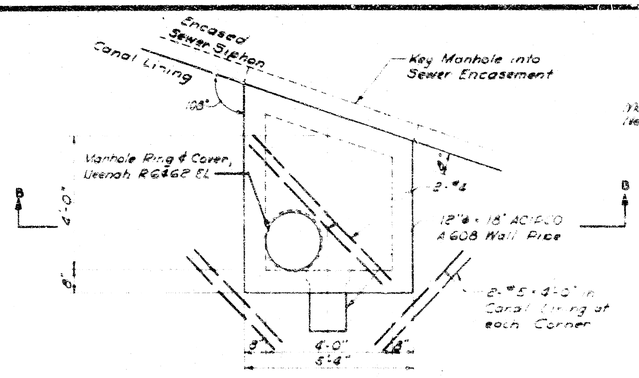
APRIL 1978 REVISED APRIL 1980

5/9

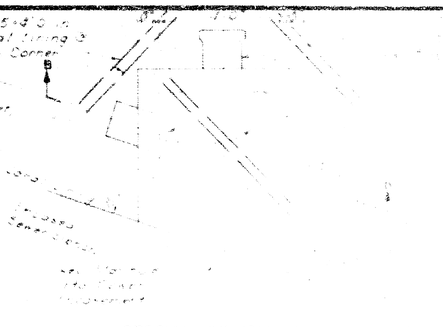


SPECIAL OUTLET MANHOLE NO. 2

Scale: 1/2" = 1'-0"

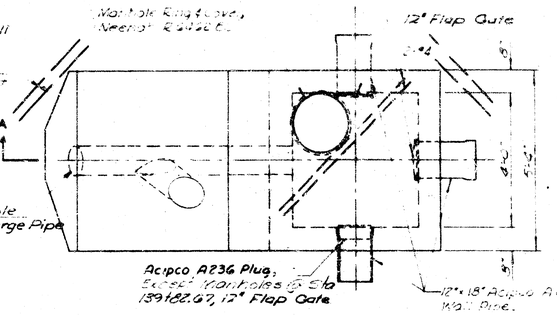


SPECIAL JUNCTION MANHOLE NO 1



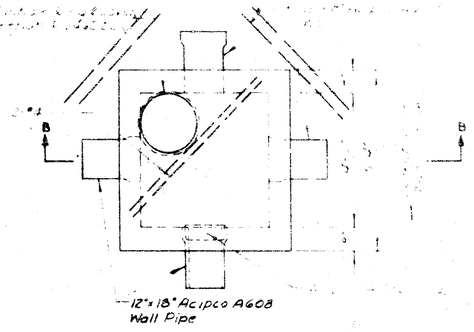
SPECIAL JUNCTION MANHOLE NO.

Scale: 1/2" = 1'-0"



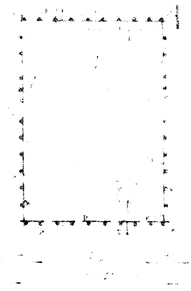
STANDARD OUTLET MANHOLE

Scale 1/2" = 1'-0"

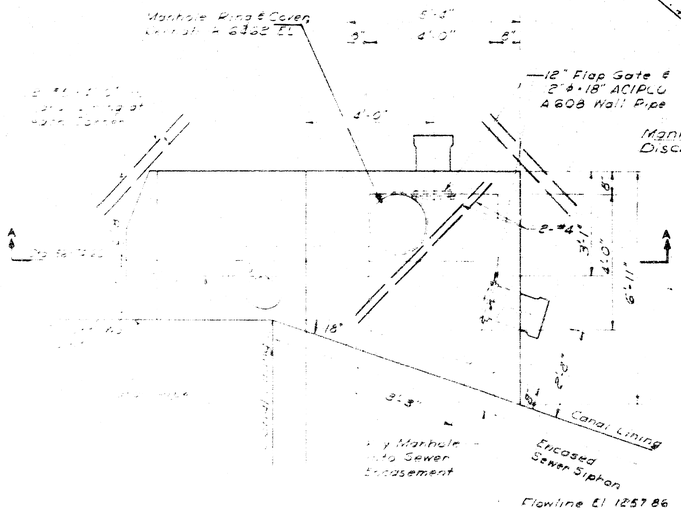


STANDARD JUNCTION MANHOLE

Scale 1/2" = 1'-0"

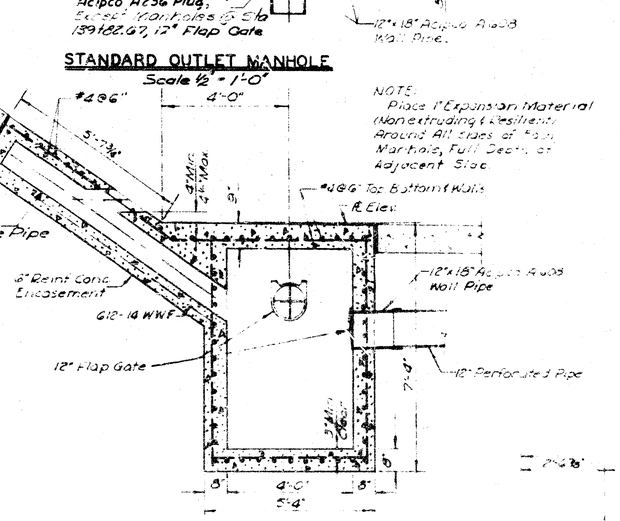


SECTION B-B



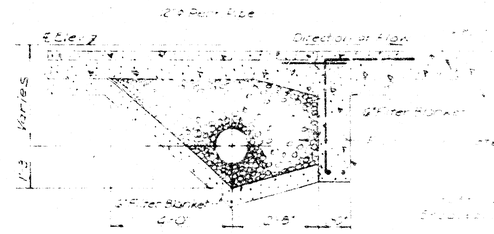
SPECIAL OUTLET MANHOLE NO 1

Scale 1/2" = 1'-0"



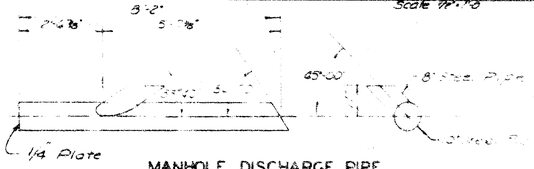
SECTION A-A

Scale 1/2" = 1'-0"



SECTION OF TRANSVERSE PIPE UNDERDRAIN

Scale 1/2"=1'-0



MANHOLE DISCHARGE PIPE

Scale 1/2" = 1'-0"

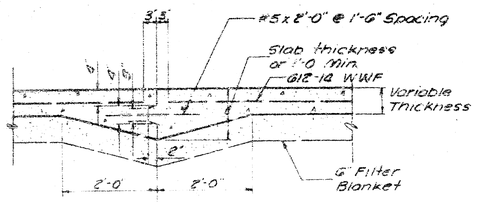
RECORD DRAWING

FOR GENERAL REFERENCE USE ONLY
ADDITIONAL INFORMATION MUST BE VERIFIED BY SITE MEASUREMENTS

WILSON & COMPANY
ENGINEERS & PLANNERS

6/9

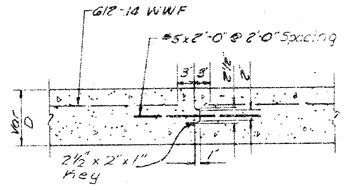
FILMED FROM THE BEST AVAILABLE COPY



CONSTRUCTION JOINT DETAIL

To be used for any construction joint not located at a doweled contraction joint or a longitudinal joint or at a cutoff wall.

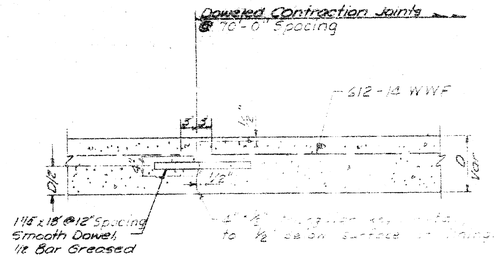
Scale 1/4" = 1'-0"



LONGITUDINAL JOINT DETAIL

Scale: 1"=1'-0"

NOTE:
6x12-14 WWF will be welded wire fabric. Number 4 gg wires transverse @ 18" ctrs. and number 10g. Wires longitudinal @ 6" ctrs. Approximate wt of fabric = 61 lbs per 100 sq. ft.



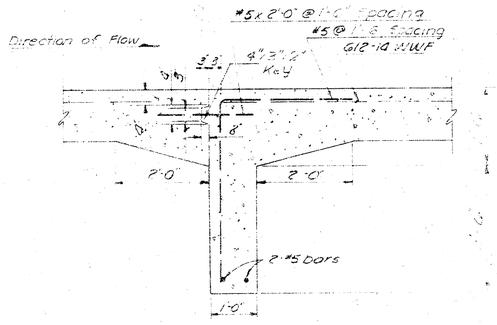
CONTRACTION JOINT DETAILS

Scale: 1"=1'-0"



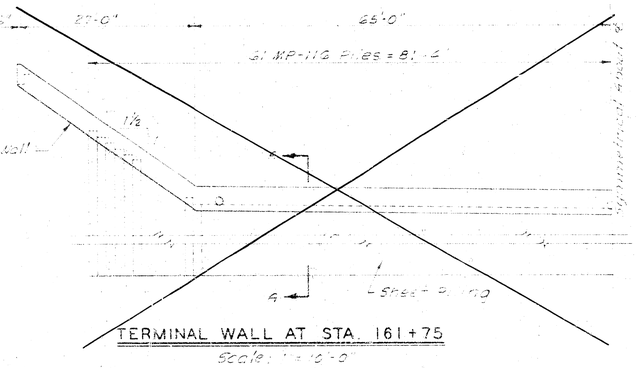
DETAIL OF LAP FOR WIRE MESH

NOTE: The lap shall extend beyond the first transverse wire of each sheet. The sheets shall be wired securely at the edges and at intervals not to exceed 2'-0" for the full width of the sheet.



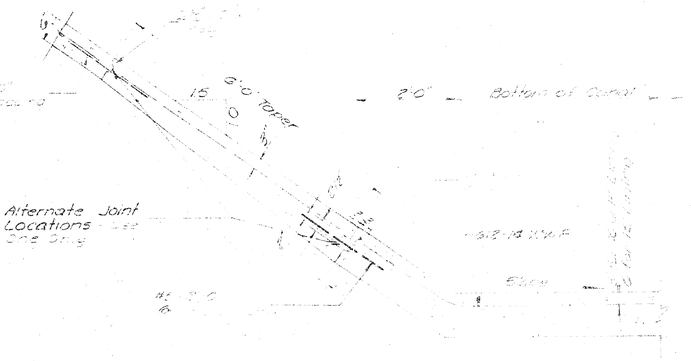
BOTTOM SLAB

CUTOFF WALL

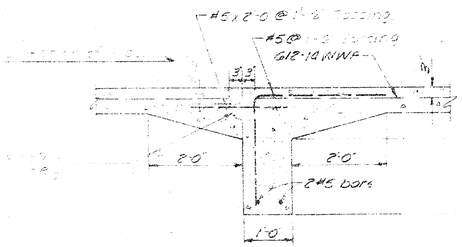


TERMINAL WALL AT STA. 161+75

Scale: 1"=6'-0"

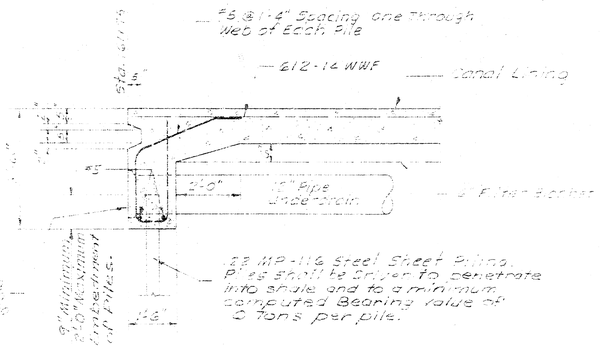


LONGITUDINAL EDGE JOINT DETAIL



SIDE SLOPES

CUTOFF WALL



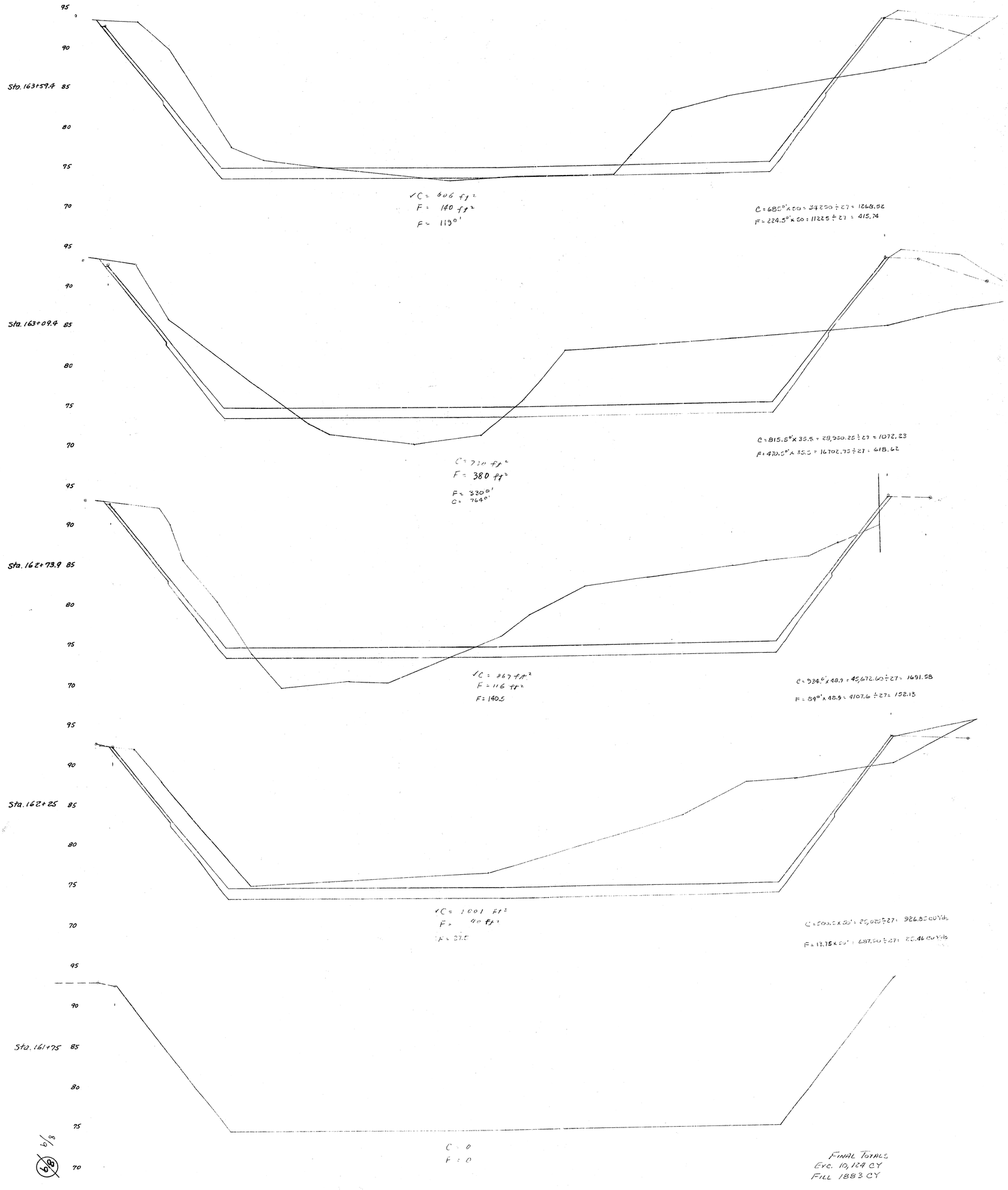
SECTION A-A

Scale: ½" = 1'-0"

RECORD DRAWING

WILSON & COMPANY ENGINEERS & ARCHITECTS

FILMED FROM THE BEST AVAILABLE COPY



FINAL TOTALS
EXC. 10,124 CY
FILL 1883 CY

FILMED FROM THE BEST