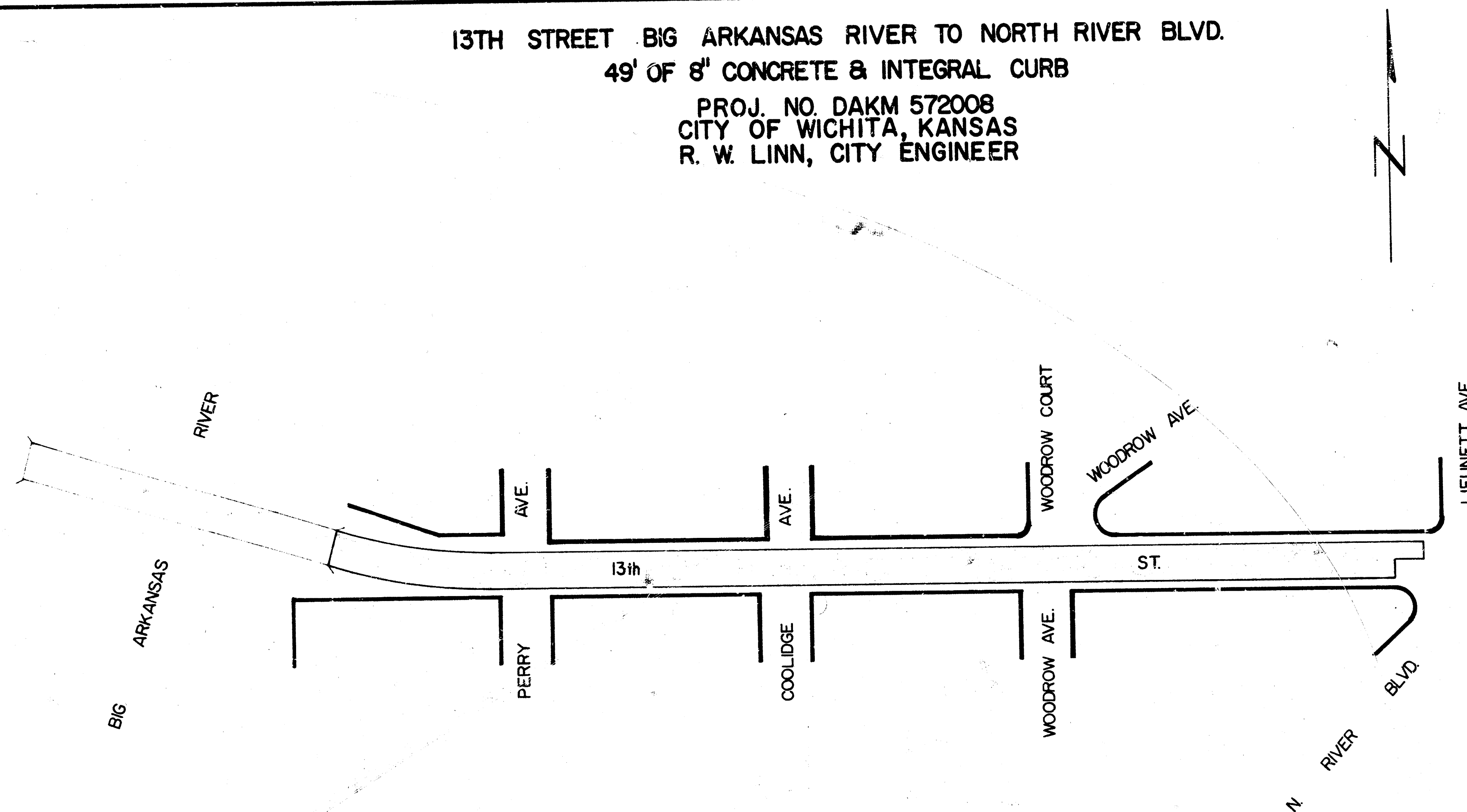


13TH STREET BIG ARKANSAS RIVER TO NORTH RIVER BLVD.
49' OF 8" CONCRETE & INTEGRAL CURB

PROJ. NO. DAKM 572008
CITY OF WICHITA, KANSAS
R. W. LINN, CITY ENGINEER

INDEX	
Description	Sheet No.
Title Sheet	1
Typical Sections	2
Plan Sheets	3-5
Detail Sheet	6
Cross-sections	7-13



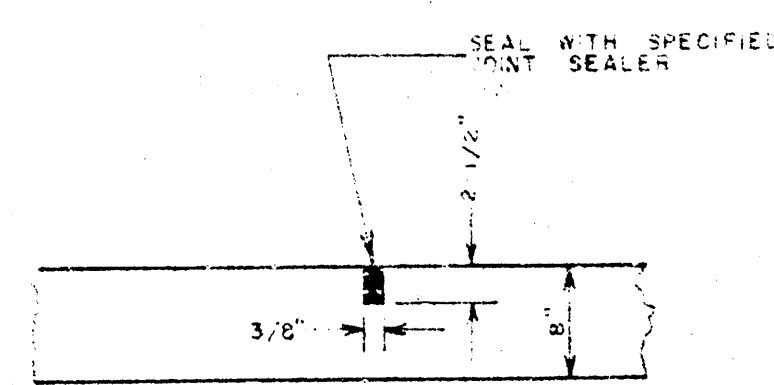
GENERAL NOTES:

1. FIELD ENGINEER TO TAKE TIES TO ALL EXISTING IRONS & IRONS IN THIMBLES. EXISTING IRONS IN THIMBLES TO BE REPLACED WITH IRON IN THIMBLE. ALL IRONS IN PAVEMENT TO BE REPLACED WITH IRON IN THIMBLE.
2. FIELD ENGINEER TO DETERMINE WHICH AREAS OF THE SUB-GRADE ARE TO BE CEMENT OR LIME TREATED AND WHICH AREAS ARE TO BE SUB-GRADE MODIFIED.
3. NO WORK TO BE DONE ON PRIVATE PROPERTY WITHOUT PRIOR CONSENT OF PROPERTY OWNER.
4. ALIGNMENT ON WEST END OF PROJECT IS TIED TO THE E. OF THE EXISTING BRIDGE OVER THE BIG ARKANSAS RIVER AT 13TH STREET.
5. FIELD ENGINEER TO FIELD LOCATE THE ALIGNMENT OF THE PROPOSED PAVEMENT BEFORE MARKING TREES FOR REMOVAL. SAVE AS MANY TREES AS POSSIBLE.
6. FIELD ENGINEER TO LOCATE BACK OF WALK LINE TO SAVE TREES ALONG PROPERTY LINE. MAXIMUM DISTANCE BETWEEN PROPERTY LINE & BACK OF WALK LINE IS 14 FT.
7. THE FIELD ENGINEER SHALL DETERMINE WHERE NEW MANHOLE FRAMES AND COVERS ARE NEEDED. NEW MANHOLE FRAMES AND COVERS SHALL BE PAID BY FORCE ACCOUNT.
8. FIELD ENGINEER SHALL APPROVE ALL BORROW EXCAVATION BEFORE IT IS USED ON THIS PROJECT.
9. FIELD ENGINEER TO RE-CROSS-SECTION AREAS WHERE STORM SEWER CONTRACTOR STORED EXCAVATED MATERIAL OVER NEW STORM SEWER TRENCH.

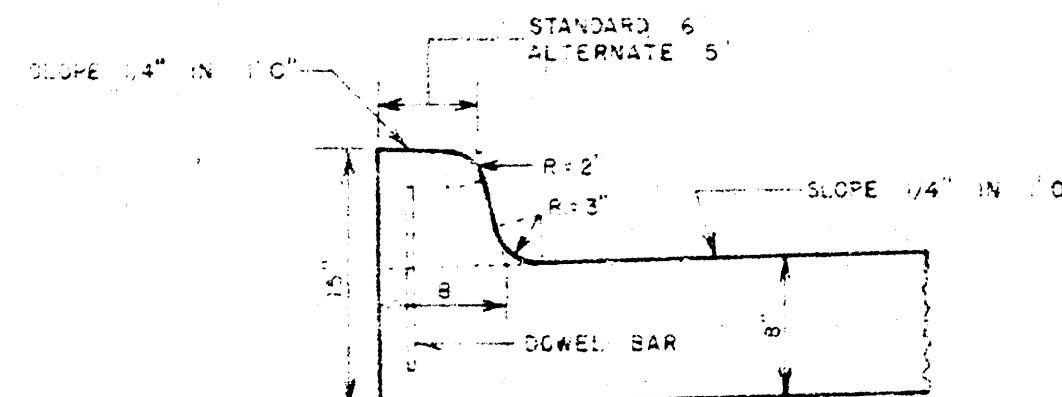
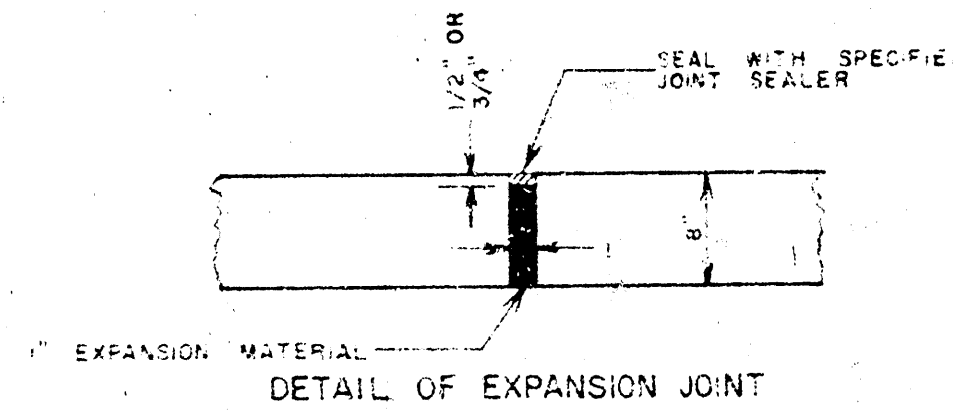


PROJ. NO. DAKM 572008
CITY OF WICHITA, KANSAS
R. W. LINN, CITY ENGINEER

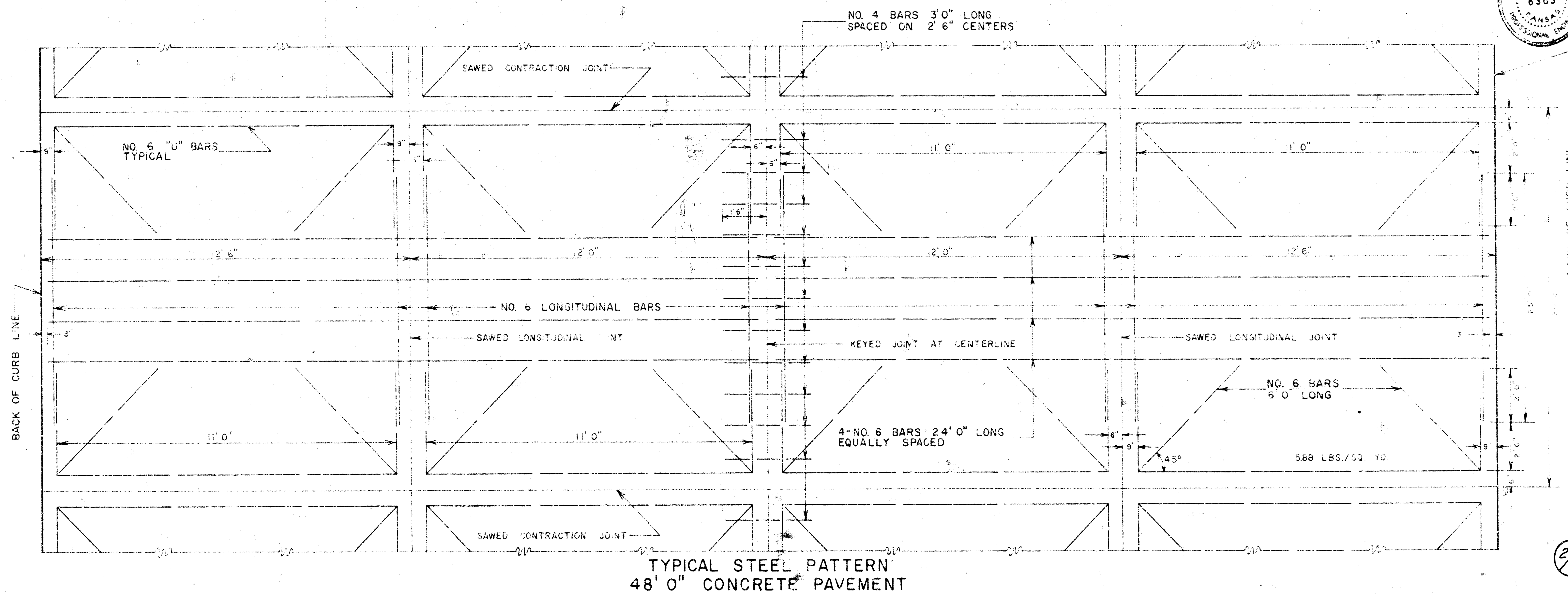
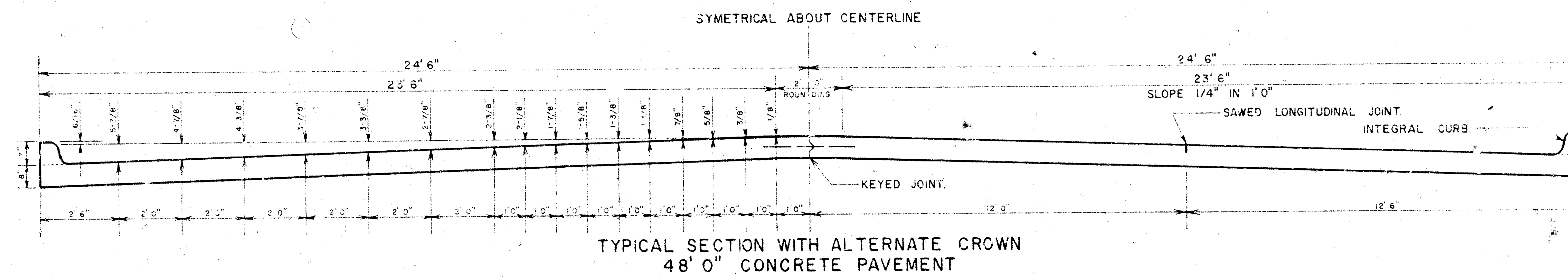
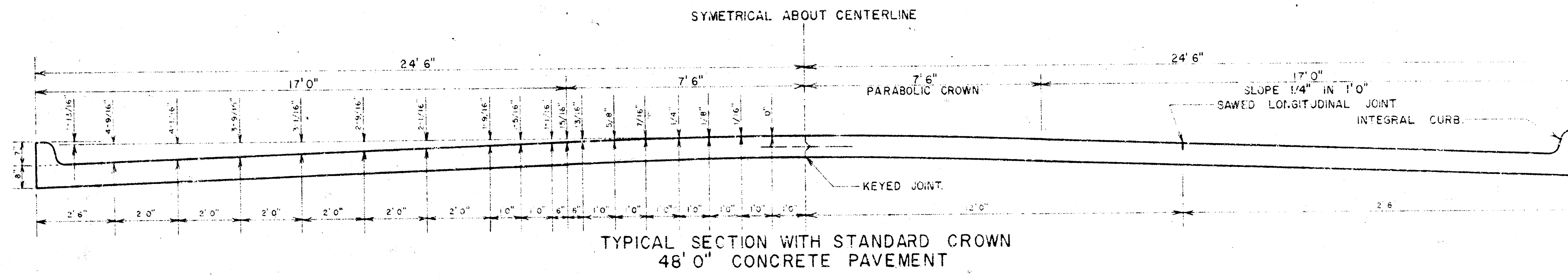
SAWED CONTRACTION JOINTS ARE TO BE CONSTRUCTED AT 30' 0" INTERVALS EXCEPT WHERE AN EXPANSION JOINT IS USED.



EXPANSION JOINTS ARE TO BE CONSTRUCTED AT MAXIMUM INTERVALS OF 120' 0".



INTEGRAL CURB SHALL BE CUT THROUGH TO THE PAVEMENT IN UNIFORM LENGTHS OF NOT MORE THAN TEN FEET INTERVALS BETWEEN EXPANSION JOINTS. EXPANSION JOINTS HAVING THE SAME THICKNESS AS THE EXPANSION JOINTS IN THE PAVEMENT SHALL BE CONSTRUCTED IN THE INTEGRAL CURB AT THE SPECIFIED LOCATIONS. NUMBER 4 OR NUMBER 6 DOWELS SHALL BE INSTALLED IN THE INTEGRAL CURB AS SHOWN ON APPROXIMATELY 2' 6" CENTERS. PAVEMENT GRADES SHOWN ON PLANS ARE FOR STANDARD CROWN.



Surveyed by
 Plan
 Ex.
 Checked

B.M. 124.796 N.W. COR. CONC. BASE TO GULF SIGN ON S.E. COR. 13th ST. & PERRY.
 B.M. 124.849 U.S.G.S. 10' SOUTH OF WALK & 25' EAST OF S.E. END BIG RIVER BRIDGE ON 13th ST.
 B.M. 124.962 CITY STD. DISC. IN BRIDGE WK., N.E. COR. WING ON N.E. COR. BRIDGE, BIG RIVER & 13th ST.

SCALE: 1" = 20'
 N

CURVE DATA BASED ON Δ RAD. Δ 7.35°

STA.	AVG.	OFFICIALS	DEFECTION	TOTAL
0+00			0°00'00"	0°00'00"
0+25	25.00'	24.02'	0°52'13"	0°52'13"
0+50		24.03'	0°52'14"	1°44'27"
0+75		24.02'	0°52'13"	2°36'40"
1+00		24.02'	0°52'13"	3°28'53"
1+25		24.03'	0°52'14"	4°21'07"
1+50		24.02'	0°52'13"	5°13'20"
1+75		24.03'	0°52'14"	6°05'34"
2+00	25.00'	24.02'	0°52'13"	6°57'47"
2+25	27.75'	26.67'	0°57'58"	7°55'45"

DEFECTION IN MIN./FT. = 2.0889/328 MIN./FT.

Contractor To Excavate Bridge Approach To The
 Limits (Depth & Length) As Determined By The
 Field Engineer. Excavation To Be Paid As Cu. Yds.
 Excavation & Fill To Be Paid As Cu. Yds. Comp. Fill.

Construct Neoprene Seal Jt. @ Sta. 0+14
 See Sheet # 6 For Detail
 Paying Contractor To Coordinate Constr.
 With Bridge Repair Contractor.

NOTE: CONTRACTOR TO USE EXTREME CAUTION
 WHEN WORKING IN REAR OF 18" RAIN WATER LINE.

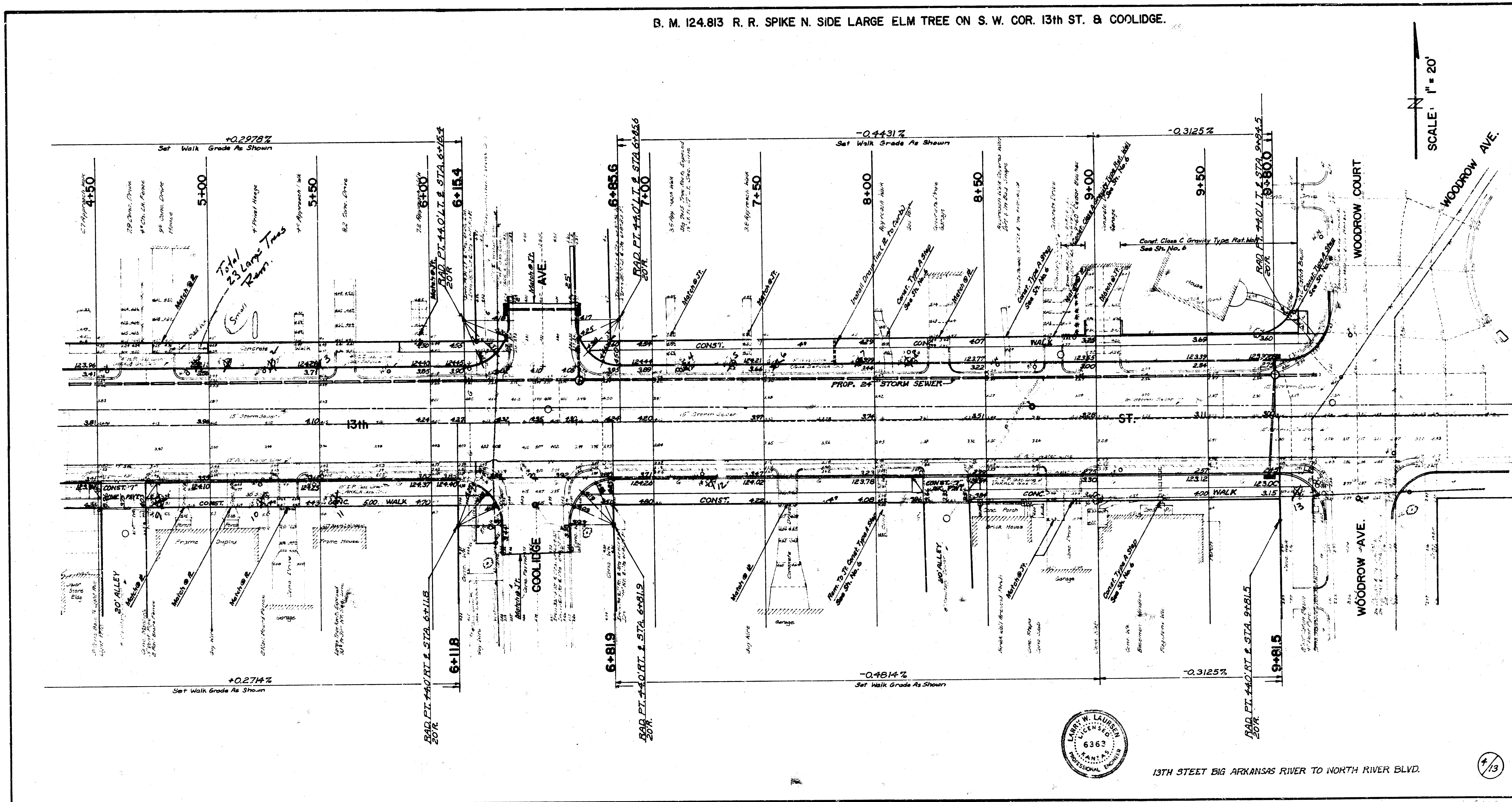
EARTHWORK QUANTITIES

EXCAVATION	COMPACTED FILL	BORROW EXCAVATION
CY. YDS. EXCAV. = 3002.2 C.Y.	CY. YDS. COMP. FILL = 1744.0	CY. YDS. BORROW EXCAV. = 1500.0 C.Y.
+ 10% = 3002.2 C.Y.	+ 10% = 1744.0	
TOTAL = 3302.4 C.Y.	TOTAL = 1918.0	TOTAL = 1500.0 C.Y.

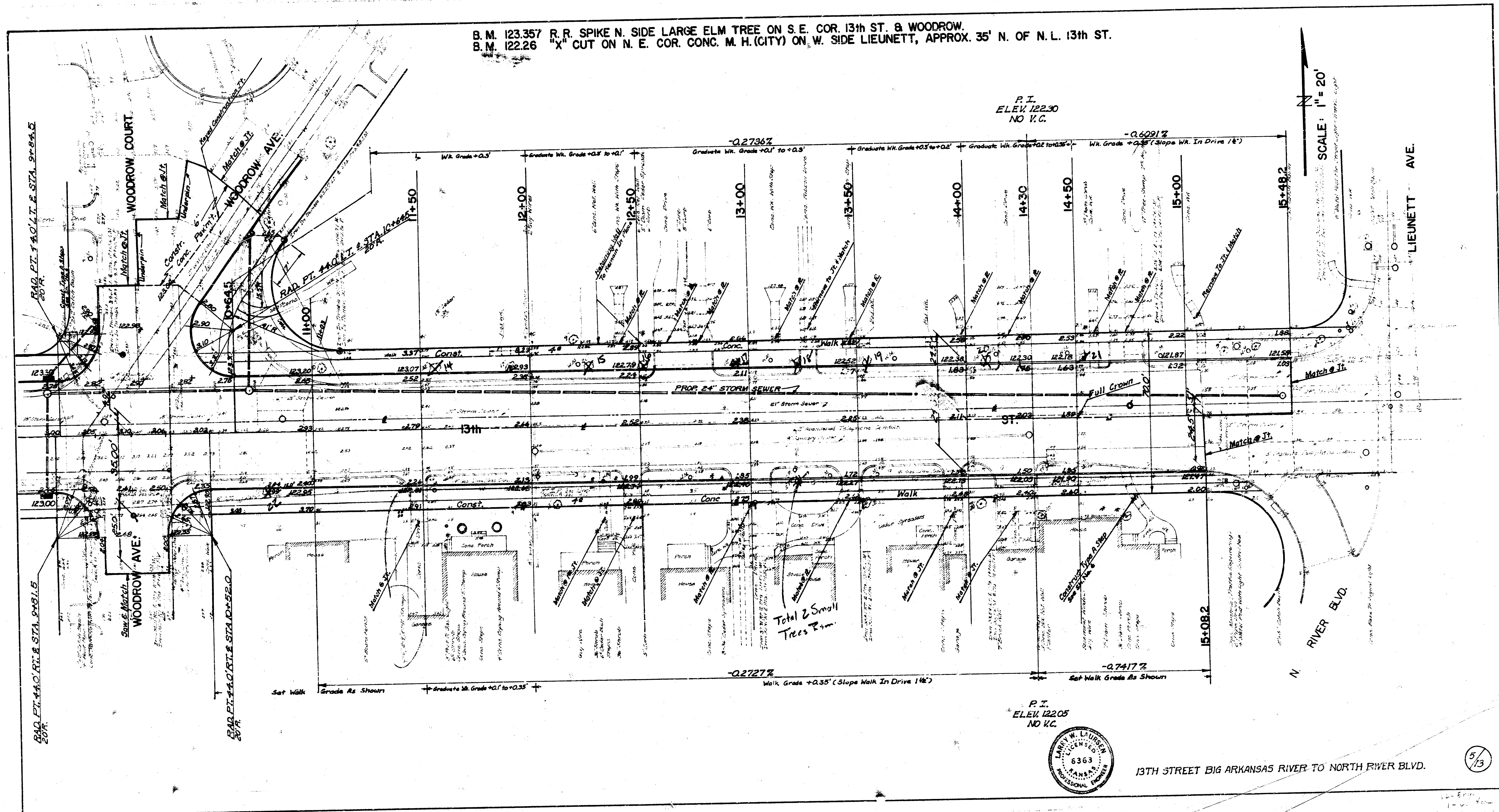


13th STREET
 BIG ARKANSAS RIVER TO
 NORTH RIVER BLVD.
 CITY OF WICHITA, KANSAS
 R. W. LINN CITY ENGINEER
 DATE: MAY 1972
 PROJ. NO. DAKM 572008

B. M. 124.813 R. R. SPIKE N. SIDE LARGE ELM TREE ON S. W. COR. 13th ST. & COOLIDGE.



B.M. 123.357 R.R. SPIKE N. SIDE LARGE ELM TREE ON S.E. COR. 13th ST. & WOODROW.
B.M. 122.26 "X" CUT ON N.E. COR. CONC. M.H. (CITY) ON W. SIDE LIEUNETT, APPROX. 35' N. OF N.L. 13th ST.



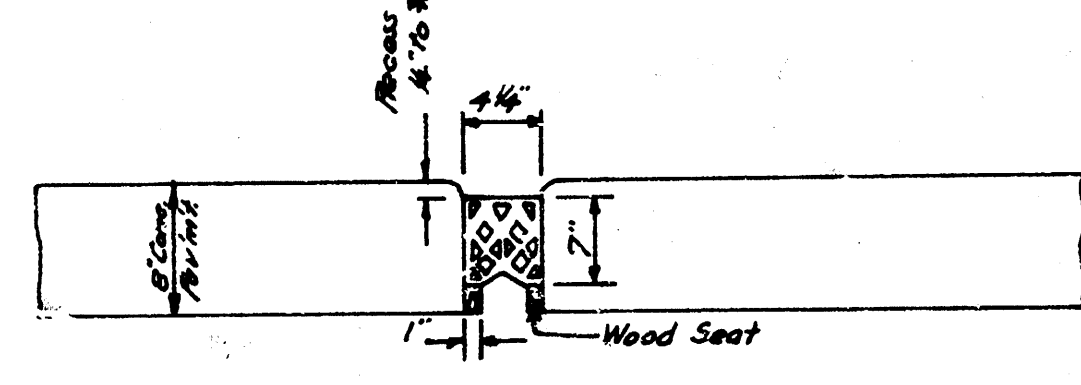
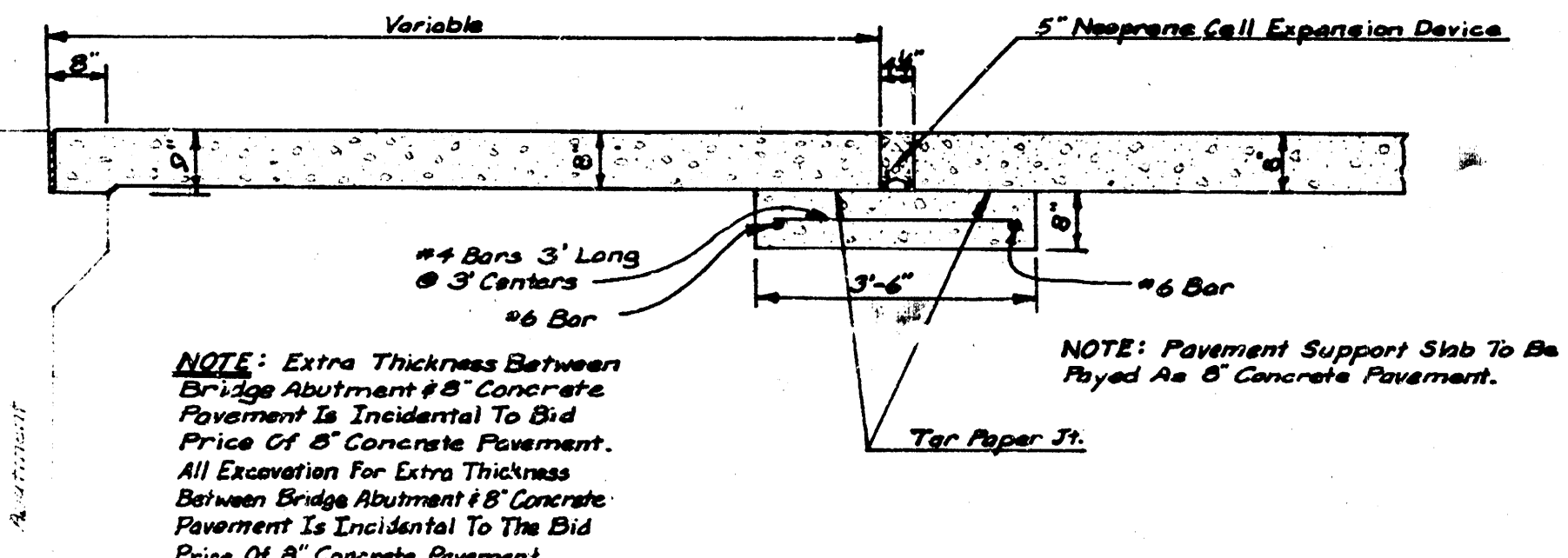
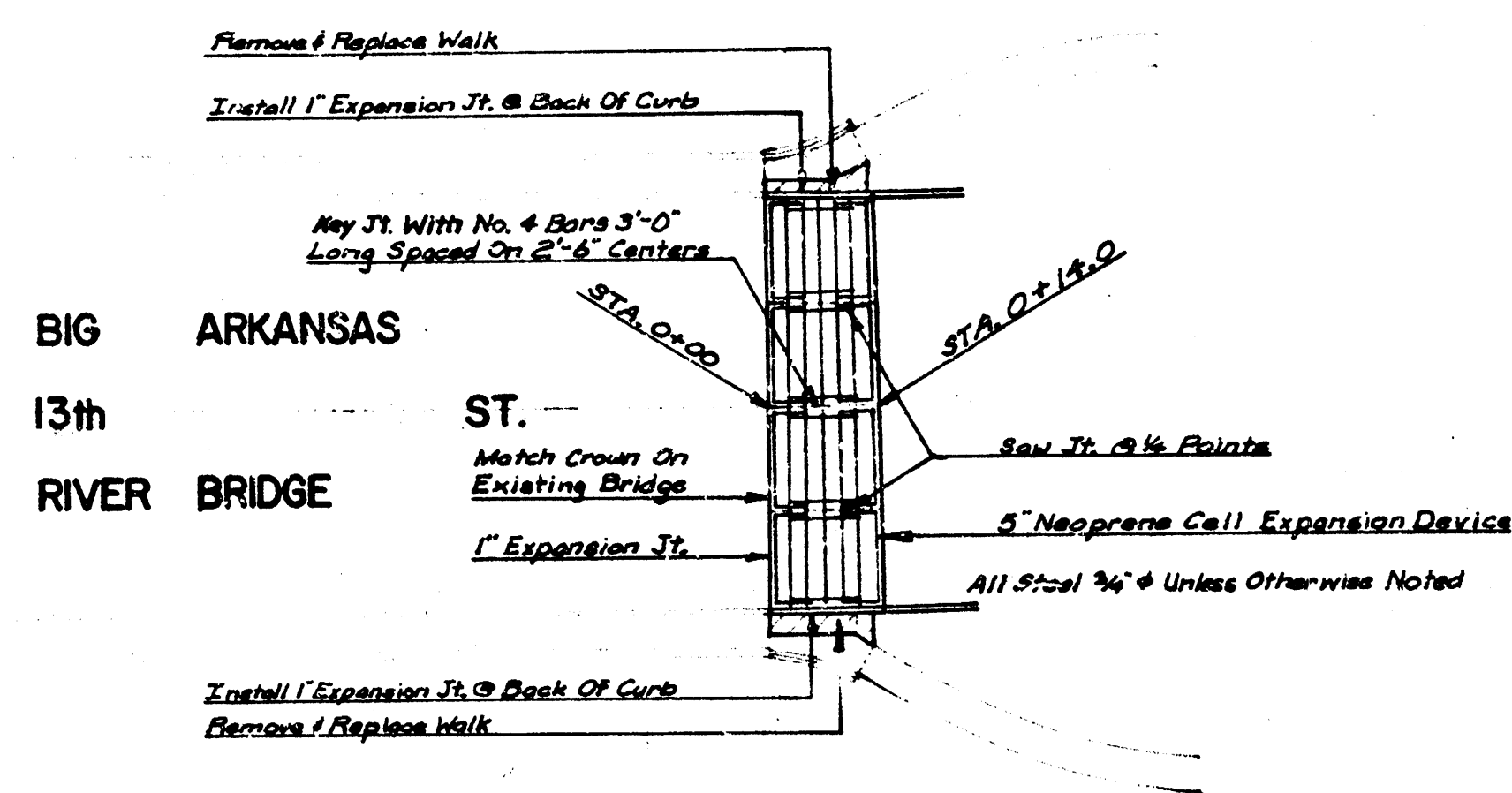
P.I.
ELEV. 122.30
NO V.C.

SCALE: 1" = 20'

P.I.
ELEV. 122.05
NO V.C.



13TH STREET BIG ARKANSAS RIVER TO NORTH RIVER BLVD.

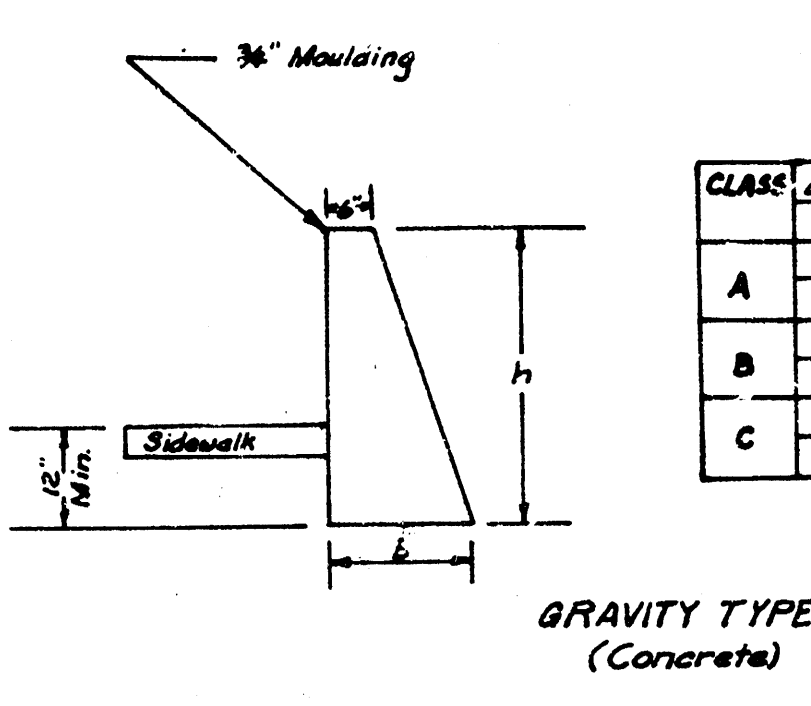


Install 5\"/>

The Neoprene Joint Material Shall Be Machine Installed With Equipment Capable Of Placing The Strips At The Specified Depth Without Increasing Or Decreasing The Length As Taken From The Roll Or Box By More Than 5%. No Splices Will Be Permitted Across The Roadway. 6\"/>

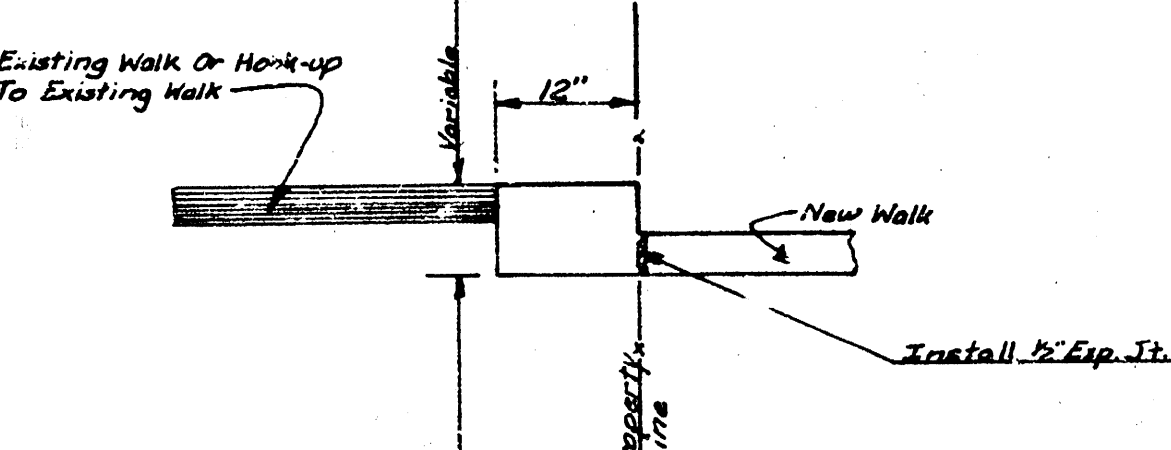
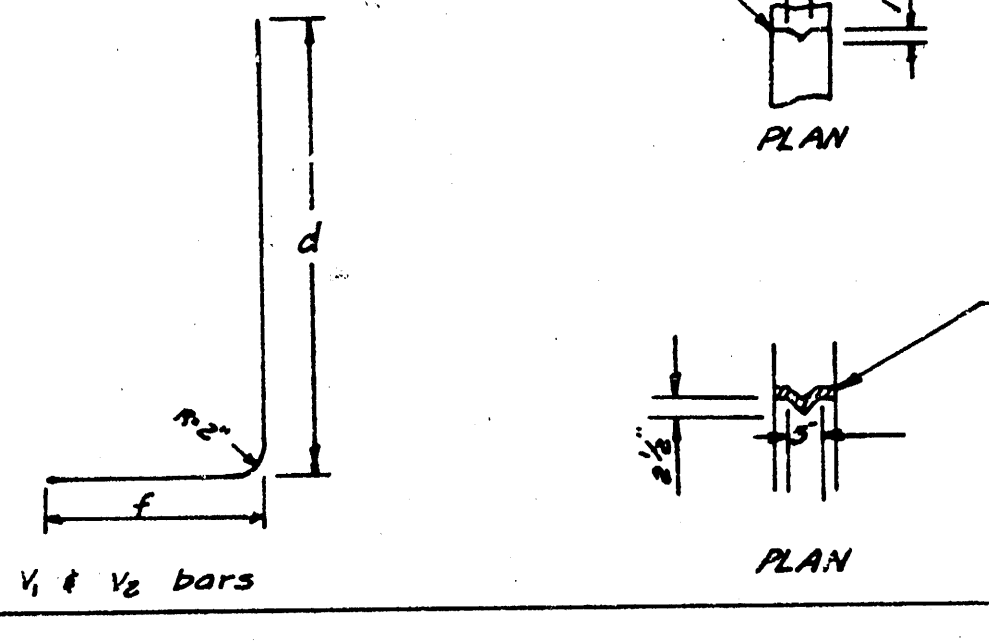
The Seals Shall Be Secured In Place With An Approved Lubricant Adhesive Which Shall Cover Both Sides Of The Seal Over The Full Contact Area. The Seals And Installation Shall Not Be Paid For Directly, But Shall Be Subsidiary To The Bid Item Of 5\"/>

EXPANSION DEVICE DETAILS



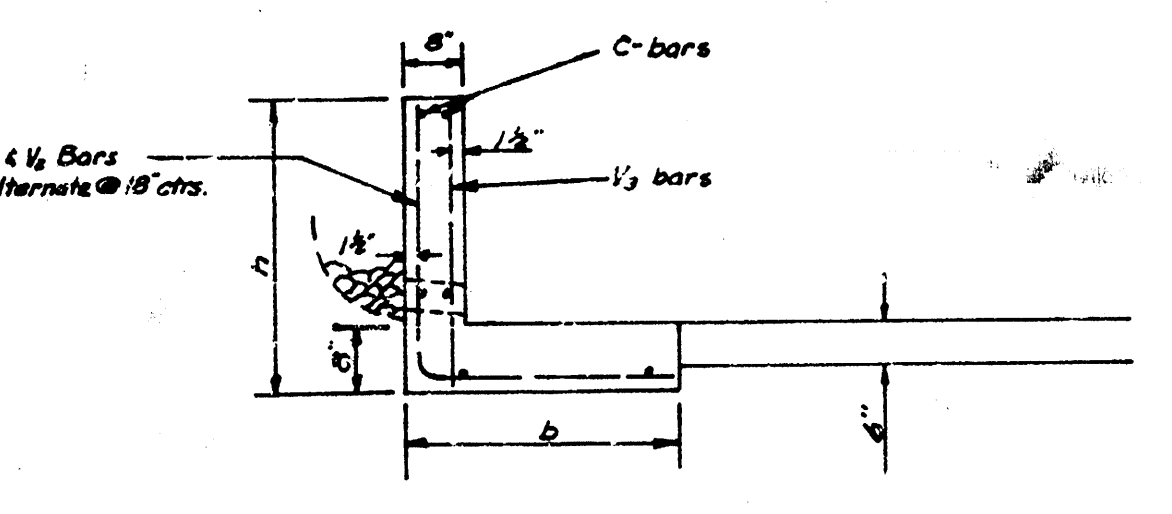
CLASS	DIMENSIONS		Cong./Ft.
	<i>h</i>	<i>b</i>	<i>Cu. Yds.</i>
A	1'-9"	11"	.046
	2'-0"	13"	.059
B	2'-3"	15"	.073
	2'-6"	17"	.089
C	2'-9"	19½"	.104
	3'-0"	20"	.120

Construct Tar Paper & Keyed Construction Joints @ 20' Intervals. Discontinue Reinf. Steel In L-Type Retaining Walls



TYPE A STEP DETAIL

CLASS	DIMENSIONS		PER LIN. FT. OF WALL	
	h	b	*Rein. \$/ft.	% Conc.
A	1'-6"	1'-6"	3.674	.058
	1'-9"	1'-9"	3.896	.070
	2'-0"	2'-0"	4.120	.083
B	3'-5"	2'-5"	6.179	.095
	3'-6"	2'-6"	6.485	.107
C	2'-9"	2'-9"	6.792	.120
	3'-0"	3'-0"	7.097	.132



L-TYPE RETAINING WALL FOR DRIVEWAYS

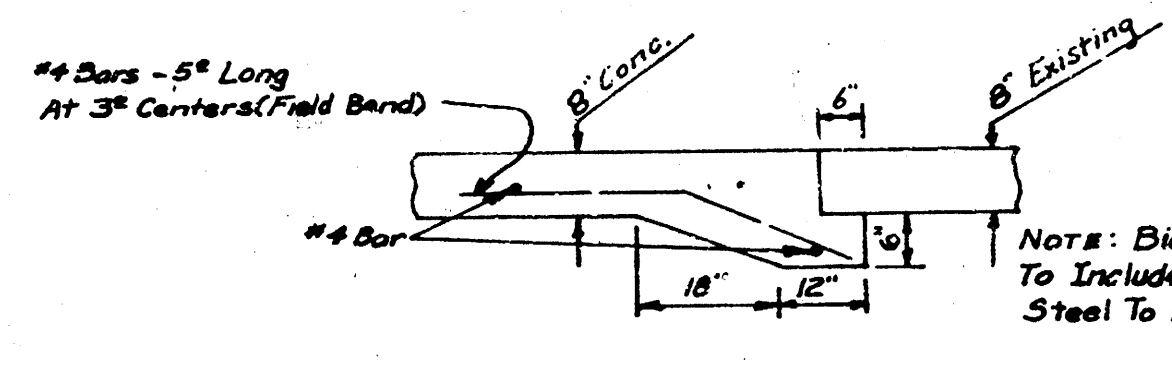
Expansion Joints @ 100' Maximum Spacing. 1\"/>

REINF. STEEL SCHEDULE							
L-TYPE RETAINING WALL FOR DRIVEWAYS							
h	bar	size	cutting length	Spacing	d	f	Remarks
1'-6"	V ₁	1/2"	5'-3"	16"		1'-3"	L Shape
	V ₂	1/2"	5'-3"	Bar's Continuous			L Shape
1'-0"	V ₁	1/2"	5'-0"	Bar's Continuous		0'-0"	L Shape
	V ₂	1/2"	4' Horiz.	Bar's Continuous			Straight
2'-0"	V ₁	1/2"	5'-3"	Bar's Continuous		1'-0"	L Shape
	V ₂	1/2"	4' Horiz.	Bar's Continuous			Straight
2'-3"	V ₁	1/2"	5'-9"	3/8"		2'-0"	L Shape
	V ₂	1/2"	3'-0"	3/8"	1'-0"	2'-0"	L Shape
WEEP TIES	C	1/2"	4' Horiz.	Bar's Continuous			Straight
2'-6"	V ₁	1/2"	5'-9"	3/8"		2'-3"	L Shape
	V ₂	1/2"	4'-6"	3/8"	1'-6"	2'-3"	L Shape
	V ₃	1/2"	5'-3"	Bar's Continuous			Straight
	V ₄	1/2"	4' Horiz.	Bar's Continuous			Straight
2'-0"	V ₁	1/2"	4'-9"	3/8"	2'-6"	2'-6"	L Shape
	V ₂	1/2"	4'-0"	3/8"	1'-7"	2'-6"	L Shape
	C	1/2"	4' Horiz.	Bar's Continuous			Straight
3'-0"	V ₁	1/2"	5'-3"	3/8"		2'-9"	L Shape
	V ₂	1/2"	4'-6"	3/8"	1'-8"	2'-9"	L Shape
	V ₃	1/2"	5'-0"	2"			Straight
	C	1/2"	4' Horiz.	Bar's Continuous			Straight

* Alternate 1/2" @ 16 Ctrs.

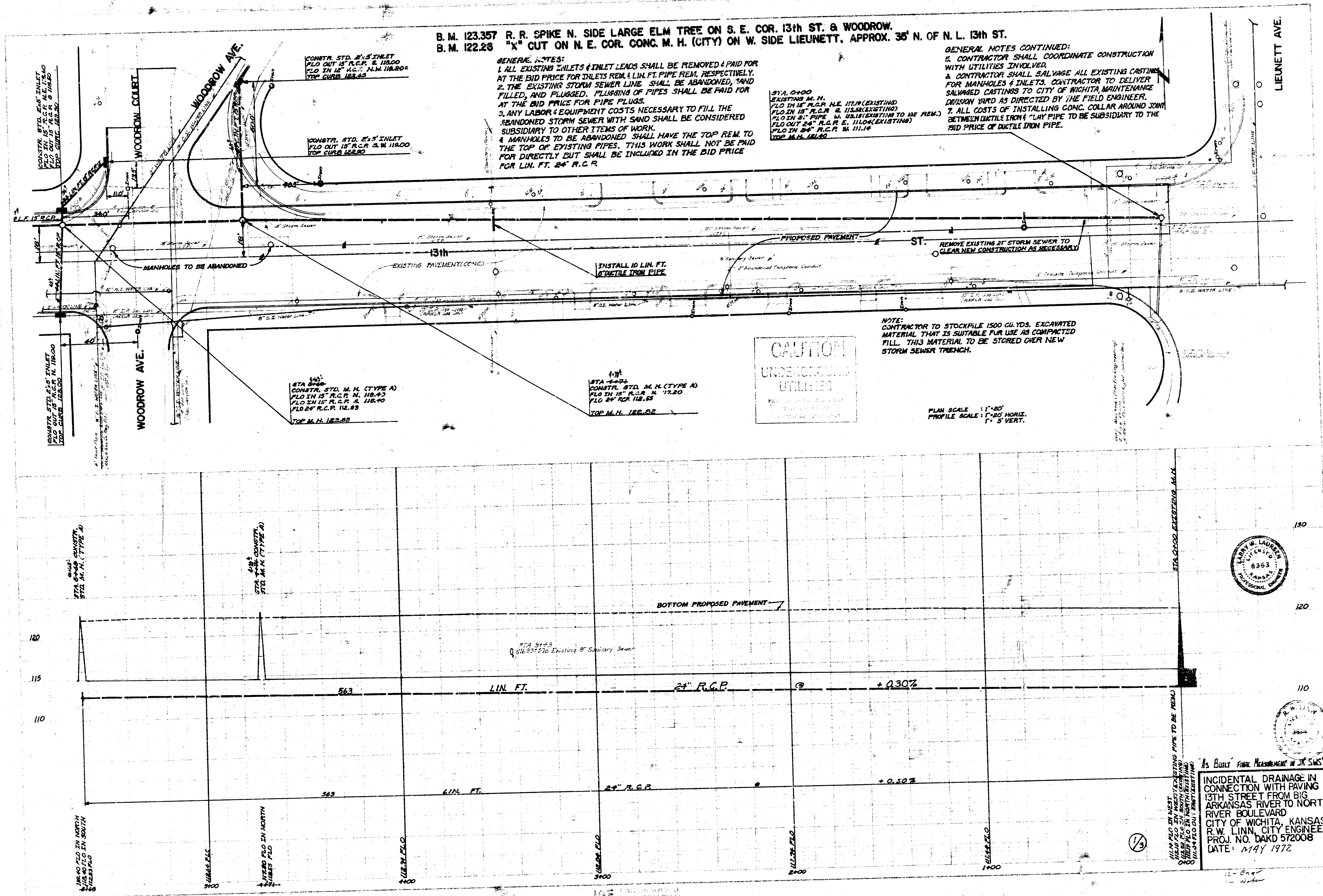
NOTE: All excavation for retaining walls shall be included in the bid price per lin. ft. of retaining wall. The 4\"/>

Note: The Field Engineer shall final measure retaining walls prior to backfill operations.



"UNDER-PINNING" DETAIL





B.M. 123.357 R.R. SPIKE N. SIDE LARGE ELM TREE ON S.E. COR. 13th ST. & WOODROW.
B.M. 122.26 "X" CUT ON N.E. COR. CONC. M.H. (CITY) ON W. SIDE LIEUNETT, APPROX. 35' N. OF N.L. 13th ST.

GENERAL NOTES:
1. ALL EXISTING INLETS & INLET LEADS SHALL BE REMOVED & PAID FOR AT THE BID PRICE FOR INLETS REM. & LIN. FT. PIPE REM. RESPECTIVELY.
2. THE EXISTING STORM SEWER LINE SHALL BE ABANDONED, SAND FILLED, AND PLUGGED. PLUGGING OF PIPES SHALL BE PAID FOR AT THE BID PRICE FOR PIPE PLUGS.
3. ANY LABOR & EQUIPMENT COSTS NECESSARY TO FILL THE ABANDONED STORM SEWER WITH SAND SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS OF WORK.
4. MANHOLES TO BE ABANDONED SHALL HAVE THE TOP REM. TO THE TOP OF EXISTING PIPES. THIS WORK SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE BID PRICE FOR LIN. FT. 24" R.C.P.

GENERAL NOTES CONTINUED:
5. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH UTILITIES INVOLVED.
6. CONTRACTOR SHALL SALVAGE ALL EXISTING CASTINGS FOR MANHOLES & INLETS. CONTRACTOR TO DELIVER SALVAGED CASTINGS TO CITY OF WICHITA MAINTENANCE DIVISION YARD AS DIRECTED BY THE FIELD ENGINEER.
7. ALL COSTS OF INSTALLING CONC. COLLAR AROUND JOINT BETWEEN DUCTILE IRON "LAY" PIPE TO BE SUBSIDIARY TO THE BID PRICE OF DUCTILE IRON PIPE.

STA. 0+00
EXISTING M.H.
FLO IN 18" R.C.P. N.E. 117.19 (EXISTING)
FLO IN 18" R.C.P. S. 118.12 (EXISTING)
FLO IN 24" R.C.P. N. 118.12 (EXISTING TO BE REM.)
FLO OUT 24" R.C.P. E. 111.04 (EXISTING)
FLO IN 24" R.C.P. W. 111.14
TOP M.H. 118.55

CONSTR. STD. 24" INLET
FLO OUT 18" R.C.P. S. 118.00
FLO IN 18" R.C.P. N.W. 118.20
TOP CURB 118.45

CONSTR. STD. 24" INLET
FLO OUT 18" R.C.P. S.W. 118.00
TOP CURB 118.20

STA. 1+00
CONSTR. STD. M.H. (TYPE A)
FLO IN 18" R.C.P. N. 118.45
FLO IN 18" R.C.P. S. 118.40
FLO 24" R.C.P. 118.85
TOP M.H. 118.85

STA. 1+40
CONSTR. STD. M.H. (TYPE A)
FLO IN 18" R.C.P. N. 118.20
FLO IN 18" R.C.P. S. 118.25
TOP M.H. 118.52

CAUTION
UNDERGROUND
UTILITIES

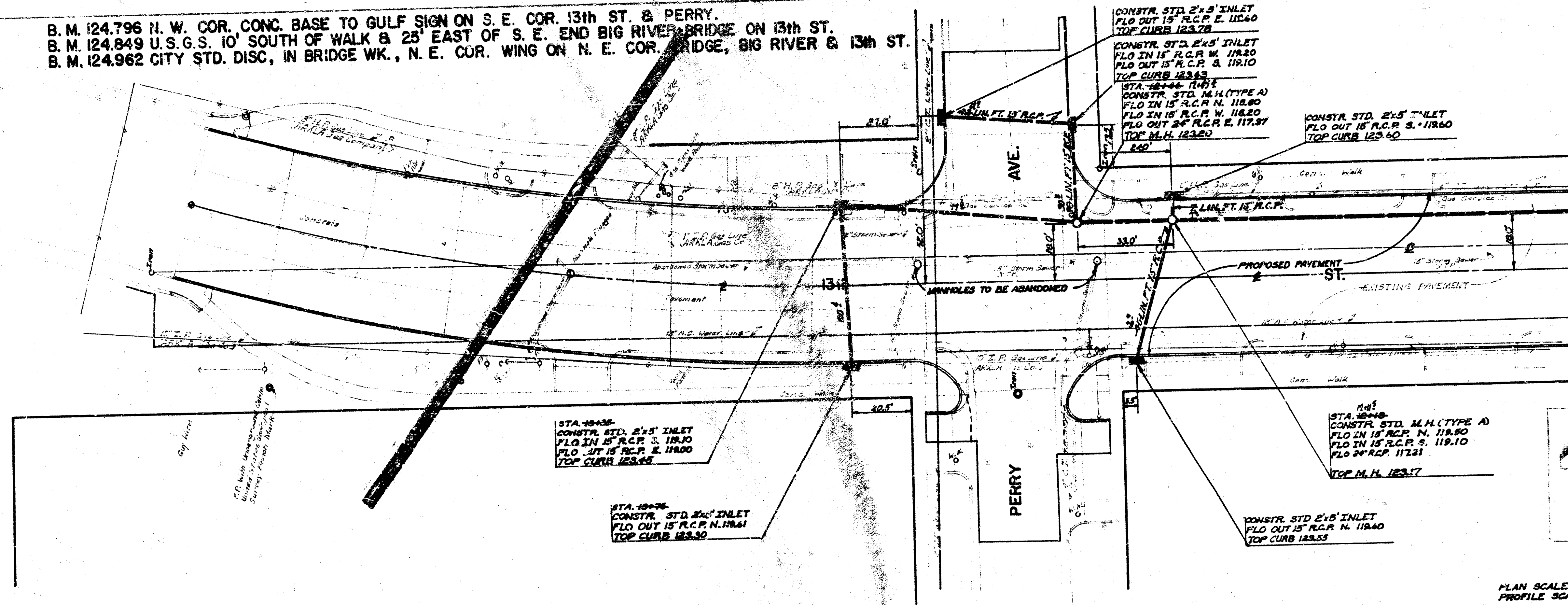
NOTE:
CONTRACTOR TO STOCKPILE 1500 CU. YDS. EXCAVATED MATERIAL THAT IS SUITABLE FOR USE AS COMPACTED FILL. THIS MATERIAL TO BE STORED OVER NEW STORM SEWER TRENCH.

PLAN SCALE: 1"=20'
PROFILE SCALE: 1"=20' HORIZ.
1"=5' VERT.



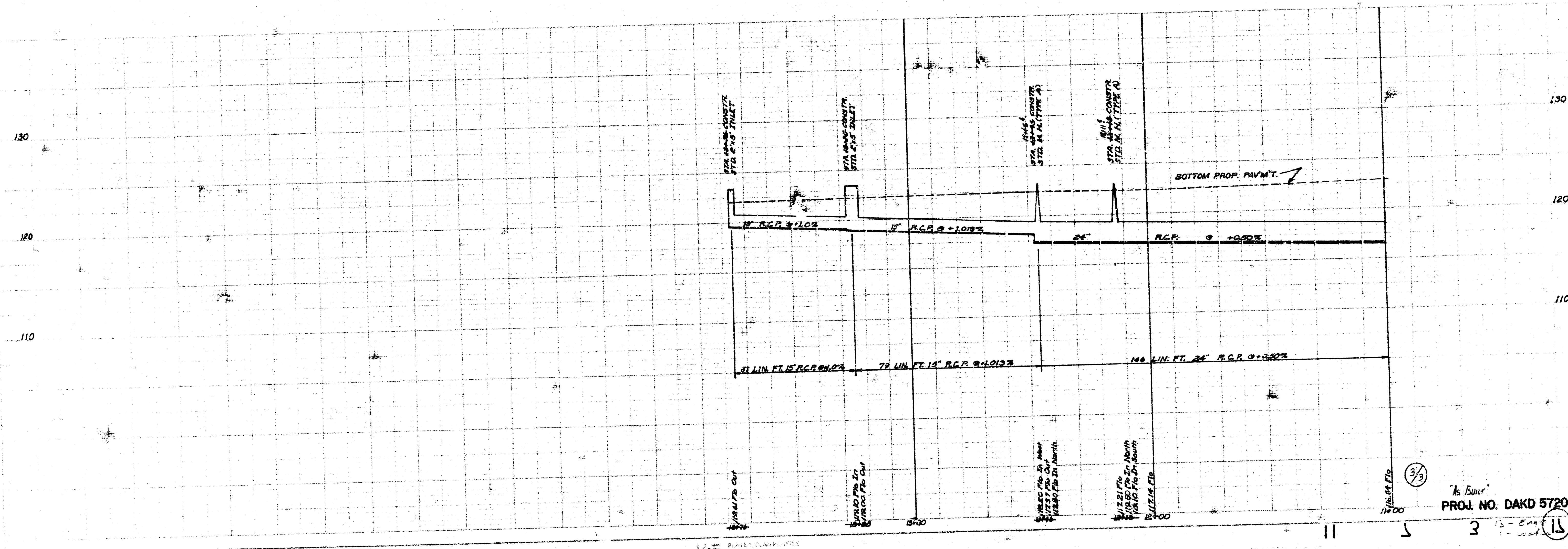
As Built Final Measurement in JK SWS'S
INCIDENTAL DRAINAGE IN CONNECTION WITH PAVING 13TH STREET FROM BIG ARKANSAS RIVER TO NORTH RIVER BOULEVARD, KANSAS CITY OF WICHITA
R.W. LINN, CITY ENGINEER
PROJ. NO. DAKD 572008
DATE: MAY 1972

B. M. 124.796 N. W. COR. CONC. BASE TO GULF SIGN ON S. E. COR. 13th ST. & PERRY.
 B. M. 124.849 U.S.G.S. 10' SOUTH OF WALK & 25' EAST OF S. E. END BIG RIVER BRIDGE ON 13th ST.
 B. M. 124.962 CITY STD. DISC. IN BRIDGE WK., N. E. COR. WING ON N. E. COR. BRIDGE, BIG RIVER & 13th ST.



CAUTION
 UNDERGROUND UTILITIES

PLAN SCALE 1" = 20' HORIZ.
 PROFILE SCALE 1" = 5' VERT.



As BUILT
 PROJ. NO. DAKD 572008

11 5 3 13 15