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

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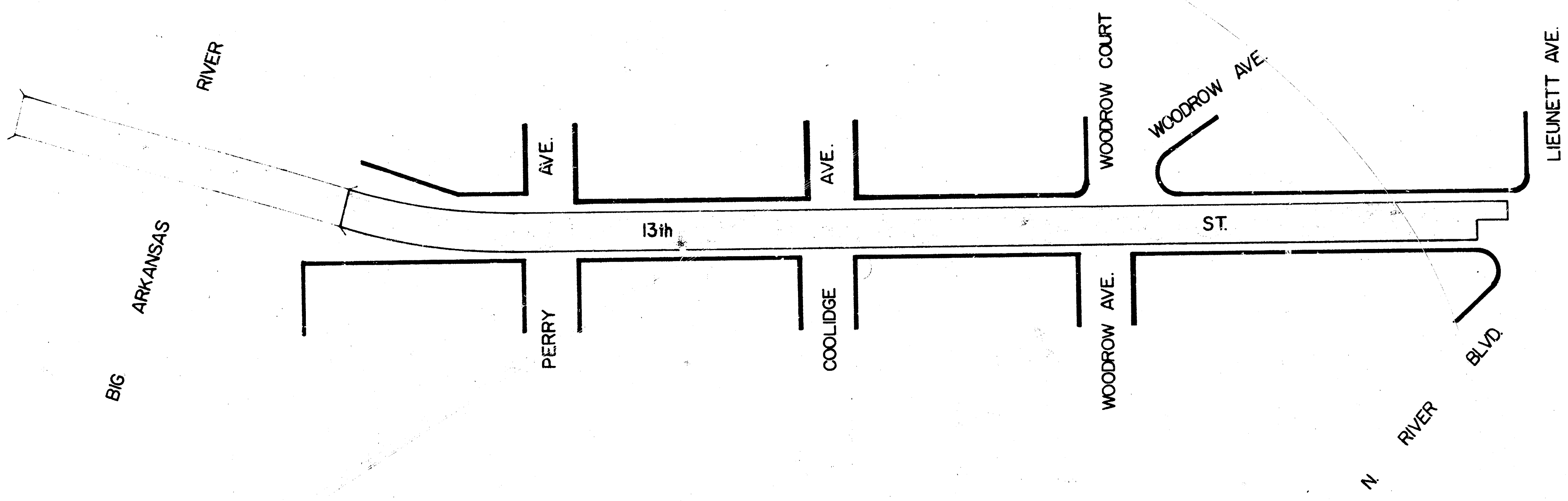

N

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 ℄ 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 1 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 RECROSS-SECTION AREAS WHERE STORM SEWER CONTRACTOR STORED EXCAVATED MATERIAL OVER NEW STORM SEWER TRENCH.

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R. W. LINN 3534

PROJ. NO. DAK**M 572008**
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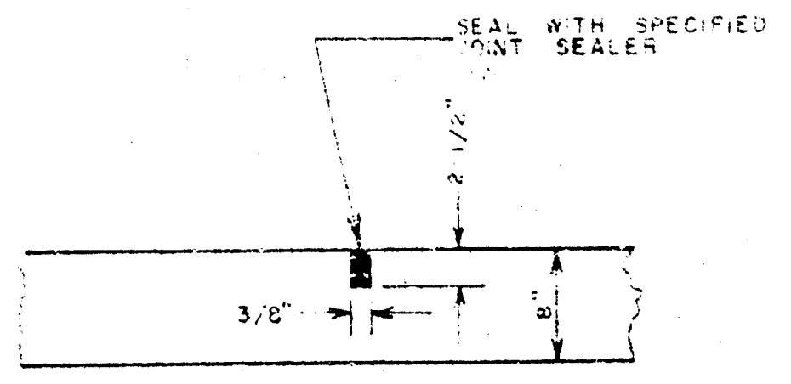
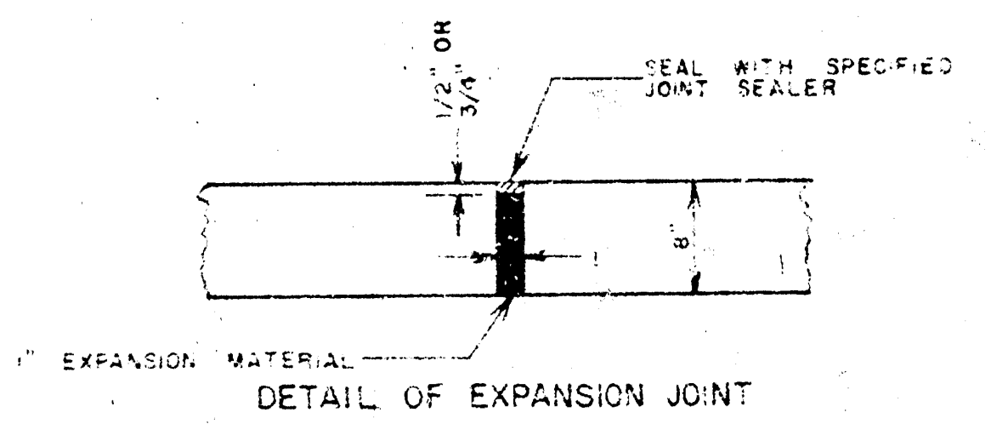
R. W. LINN, CITY ENGINEER

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

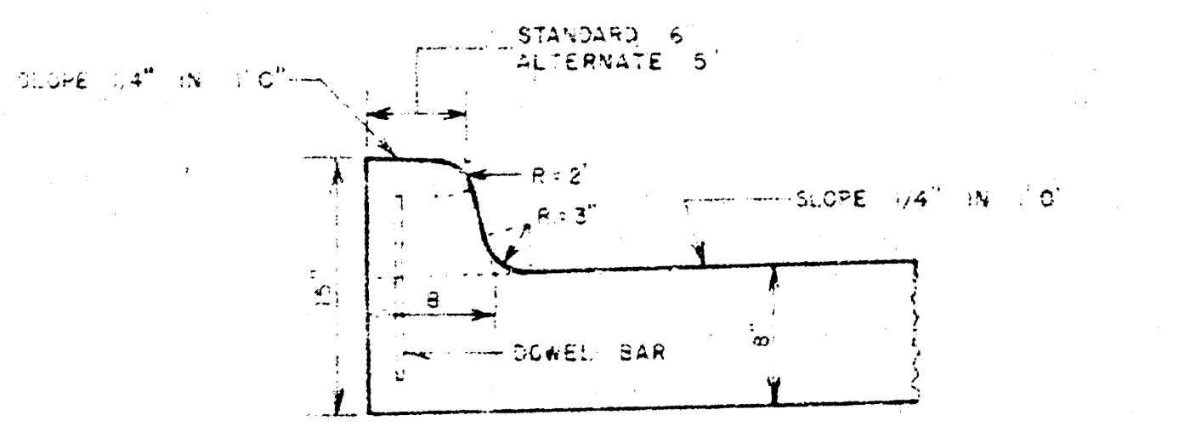

SEAL WITH SPECIFIED JOINT SEALER
2 1/2"
3/8"
8"

DETAIL OF SAWED CONTRACTION AND LONGITUDINAL JOINTS

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


1/2" OR 3/4"
SEAL WITH SPECIFIED JOINT SEALER
8"
1" EXPANSION MATERIAL

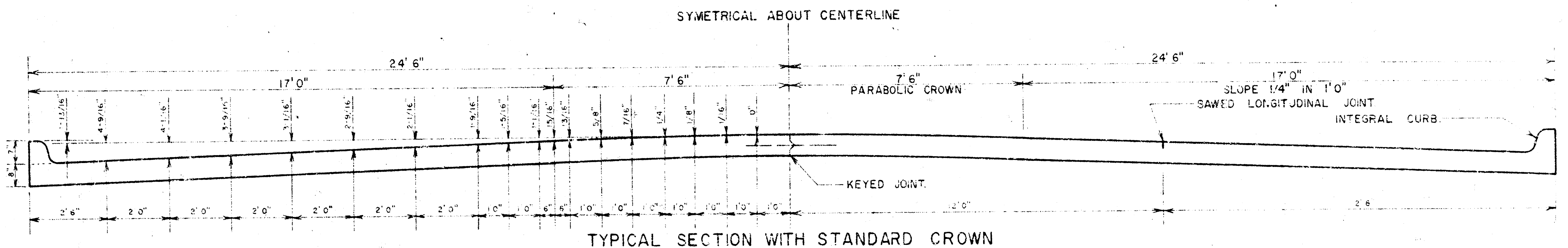
DETAIL OF EXPANSION JOINT


SLOPE 1/4" IN 1'0"
STANDARD 6"
ALTERNATE 5"
R=2"
R=3"
SLOPE 1/4" IN 1'0"
15"
8
DOWEL BAR
8"

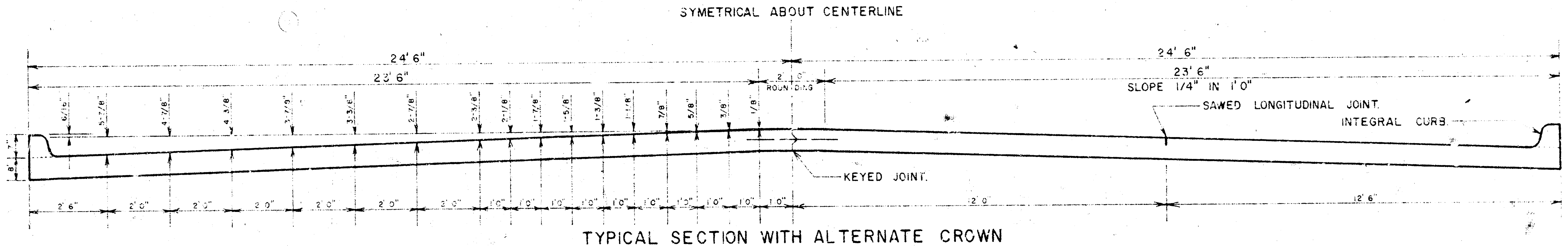
DETAIL OF INTEGRAL CURB

INTEGRAL CURB SHALL BE CUT THROUGH TO THE PAVEMENT IN UNIFORM LENGTHS OF NOT MORE THAN TEN FOOT 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.

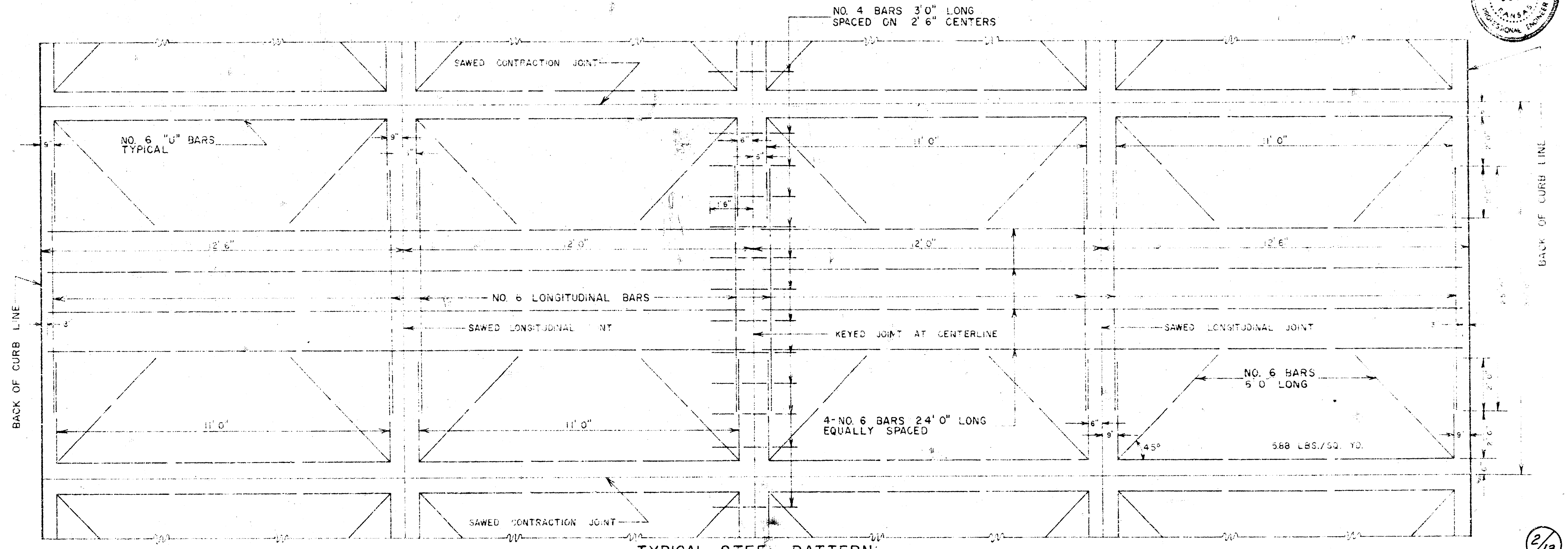

SYMETRICAL ABOUT CENTERLINE
24' 6"
17' 0"
7' 6"
PARABOLIC CROWN
7' 6"
24' 6"
17' 0"
SLOPE 1/4" IN 1'0"
SAWED LONGITUDINAL JOINT
INTEGRAL CURB
KEYED JOINT
7"
8"
1-13/16"
4-9/16"
4-1/16"
3-9/16"
3-1/16"
2-9/16"
2-1/16"
1-9/16"
1-5/16"
1-1/16"
15/16"
13/16"
5/8"
7/16"
1/4"
1/8"
1/16"
0"
2' 6"
2' 0"
2' 0"
2' 0"
2' 0"
2' 0"
2' 0"
1' 0"
1' 0"
6"
6"
1' 0"
1' 0"
1' 0"
1' 0"
1' 0"
1' 0"
1' 0"
12' 0"
12' 6"

TYPICAL SECTION WITH STANDARD CROWN
48' 0" CONCRETE PAVEMENT


SYMETRICAL ABOUT CENTERLINE
24' 6"
23' 6"
2' 0"
ROUNDING
24' 6"
23' 6"
SLOPE 1/4" IN 1'0"
SAWED LONGITUDINAL JOINT
INTEGRAL CURB
KEYED JOINT
7"
8"
6/16"
5-7/8"
4-7/8"
4-3/8"
3-7/8"
3-3/8"
2-7/8"
2-3/8"
2-1/8"
1-7/8"
1-5/8"
1-3/8"
1-1/8"
7/8"
5/8"
3/8"
1/8"
2' 6"
2' 0"
2' 0"
2' 0"
2' 0"
2' 0"
2' 0"
1' 0"
1' 0"
1' 0"
1' 0"
1' 0"
1' 0"
1' 0"
1' 0"
1' 0"
1' 0"
12' 0"
12' 6"

TYPICAL SECTION WITH ALTERNATE CROWN
48' 0" CONCRETE PAVEMENT

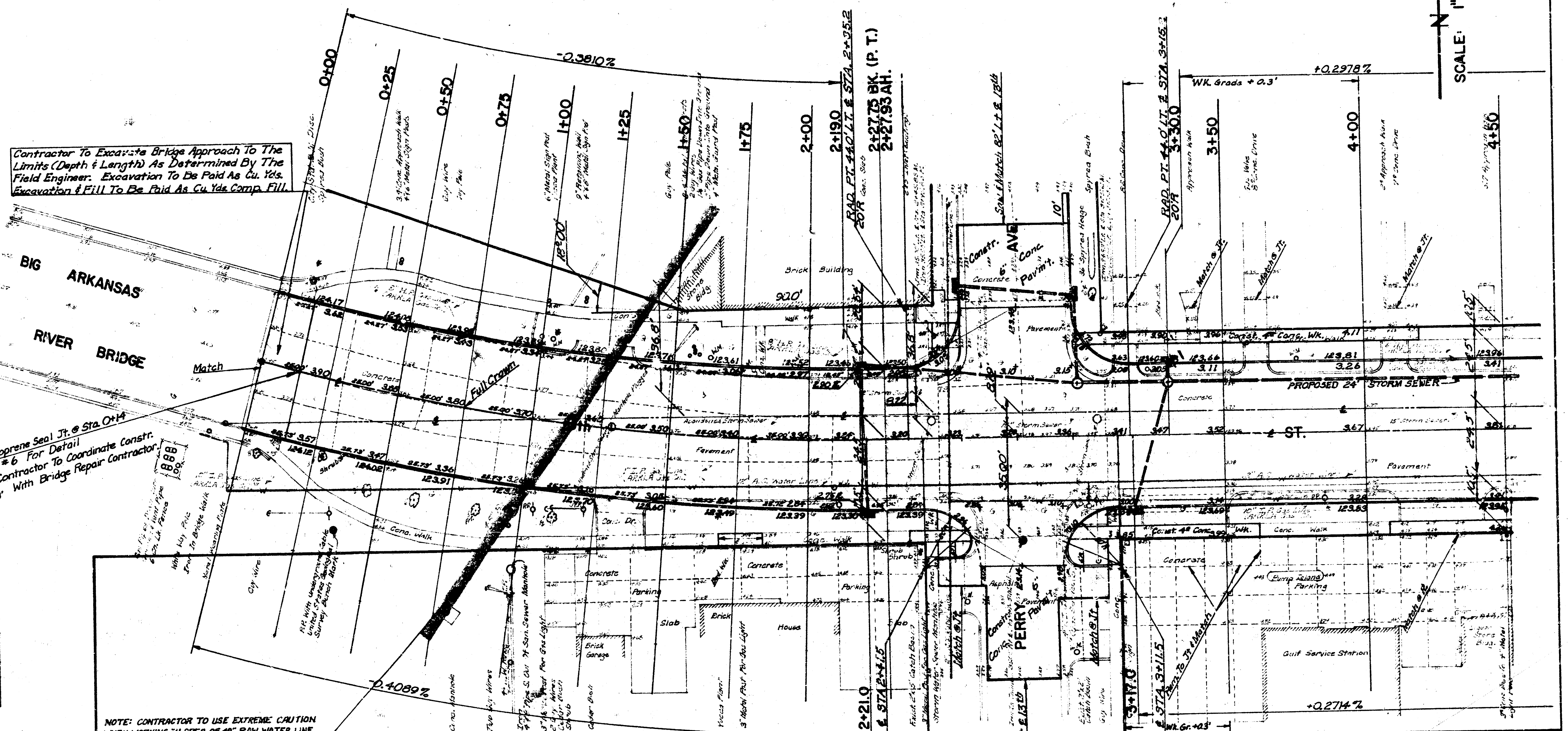
LARRY W. LAURSEN
6363


NO. 4 BARS 3'0" LONG
SPACED ON 2' 6" CENTERS
SAWED CONTRACTION JOINT
NO. 6 "U" BARS
TYPICAL
9"
9"
5"
6"
5"
1' 6"
11' 0"
11' 0"
12' 6"
12' 0"
12' 0"
12' 6"
NO. 6 LONGITUDINAL BARS
SAWED LONGITUDINAL JOINT
KEYED JOINT AT CENTERLINE
SAWED LONGITUDINAL JOINT
3"
3"
BACK OF CURB LINE
NO. 6 BARS
5' 0" LONG
4-NO. 6 BARS 24' 0" LONG
EQUALLY SPACED
6"
9"
9"
45°
5.88 LBS./SQ. YD.
11' 0"
11' 0"
SAWED CONTRACTION JOINT
BACK OF CURB LINE

TYPICAL STEEL PATTERN
48' 0" CONCRETE PAVEMENT

Survey Glantz JFG. 216 J.F.G. 217
Plan Laursen
Exc
Checked O.E.S.

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
BIG ARKANSAS RIVER BRIDGE
Match
0+00
0+25
0+50
0+75
1+00
1+25
1+50
1+75
2+00
2+19.0
2+27.75 BK. (P. T.)
2+27.93 AH.
3+30.0
3+50
4+00
4+50
2+21.0
3+17.0
-0.3810%
+0.2978%
-0.4089%
+0.2714%
WK. Grade + 0.3'
Wk. Gr. +0.3'
RAD. PT. 44.0' LT. & STA. 2+35.2 20'R
RAD. PT. 44.0' LT. & STA. 3+16.2 20'R
RAD. PT. 44.0' RT. & STA. 2+45 20'R
RAD. PT. 44.0' RT. & STA. 3+11.5 20'R
Saw & Match 82' Lt. & 13th
Saw & Match 82' Rt. & 13th
AVE.
PERRY
ST.
PROPOSED 24" STORM SEWER
Full Crown
Brick Building
Concrete
Pavement
Parking
Slab
Brick
House
Brick Garage
Gulf Service Station
Pump Island
Conc. Walk
Match
Rem. To Jt & Match
123.91
123.81
123.83
123.39
123.30

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
Paving Contractor To Coordinate Constr. With Bridge Repair Contractor.

NOTE: CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING IN AREA OF 48" RAW WATER LINE.

Δ = 15°-51'-30" R. 822.87' T. = 114.61' L. = 227.75' L.C. = 227.03'

CURVE DATA BASED ON ℄ Rdwy. RAD. Δ/2 = 7°-55'-45" R = 822.87'					
STA.	ARC.	CHORD LENGTH 8' OFF Lt. C.B.	CHORD LENGTH 8' OFF Rt. C.B.	DEFLECTION	TOTAL DEFLECTION
0+00	——	——	——	0°-00'-00"	0°-00'-00"
0+25	25.00'	24.02'	25.98'	0°-52'-13"	0°-52'-13"
0+50	"	24.03'	25.97'	0°-52'-14"	1°-44'-27"
0+75	"	24.02'	25.98'	0°-52'-13"	2°-36'-40"
1+00	"	24.02'	25.98'	0°-52'-13"	3°-28'-53"
1+25	"	24.03'	25.97'	0°-52'-14"	4°-21'-07"
1+50	"	24.02'	25.98'	0°-52'-13"	5°-13'-20"
1+75	"	24.03'	25.97'	0°-52'-14"	6°-05'-34"
2+00	25.00'	24.02'	25.98'	0°-52'-13"	6°-57'-47"
2+27.75	27.75'	26.67'	28.83'	0°-57'-58"	7°-55'-45"

DEFLECTION IN MIN./FT. = 2.08891328 MIN./FT.

EARTHWORK QUANTITIES

EXCAVATION		COMPACTED FILL		BORROW EXCAVATION	
CU. YDS. EXCAV.	= 3,002.2 C.Y.	CU. YDS. COMP. FILL	= 1,364.0	CU. YDS. BORROW EXCAV.	1,500.0 C.Y.
+ 10%	300.2 C.Y.	+ 10%	136.4		
TOTAL	3,302.4 C.Y.	TOTAL	1500.4	TOTAL	1,500.0 C.Y.

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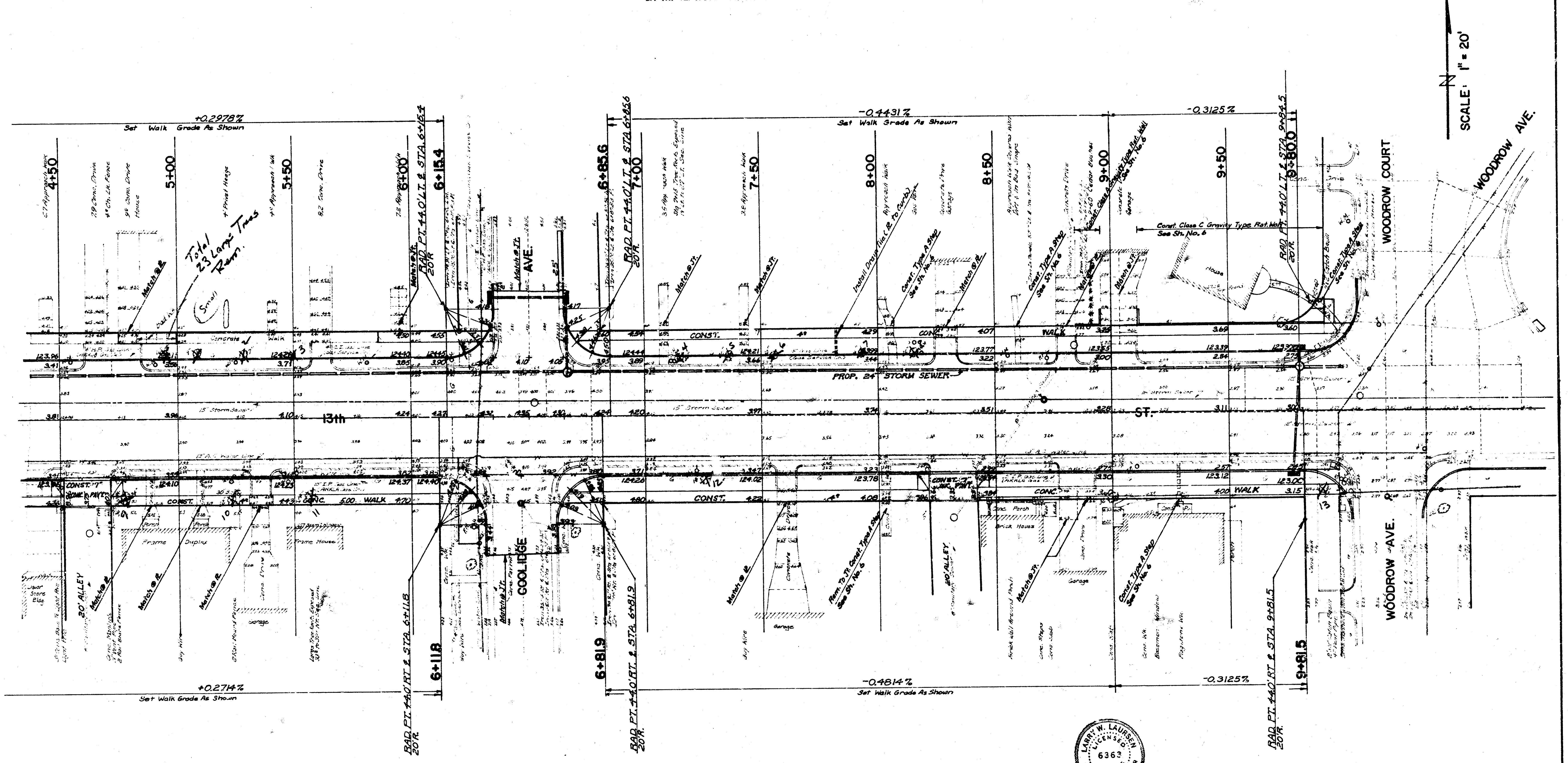
KANSAS
PROFESSIONAL ENGINEER

3/13

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.

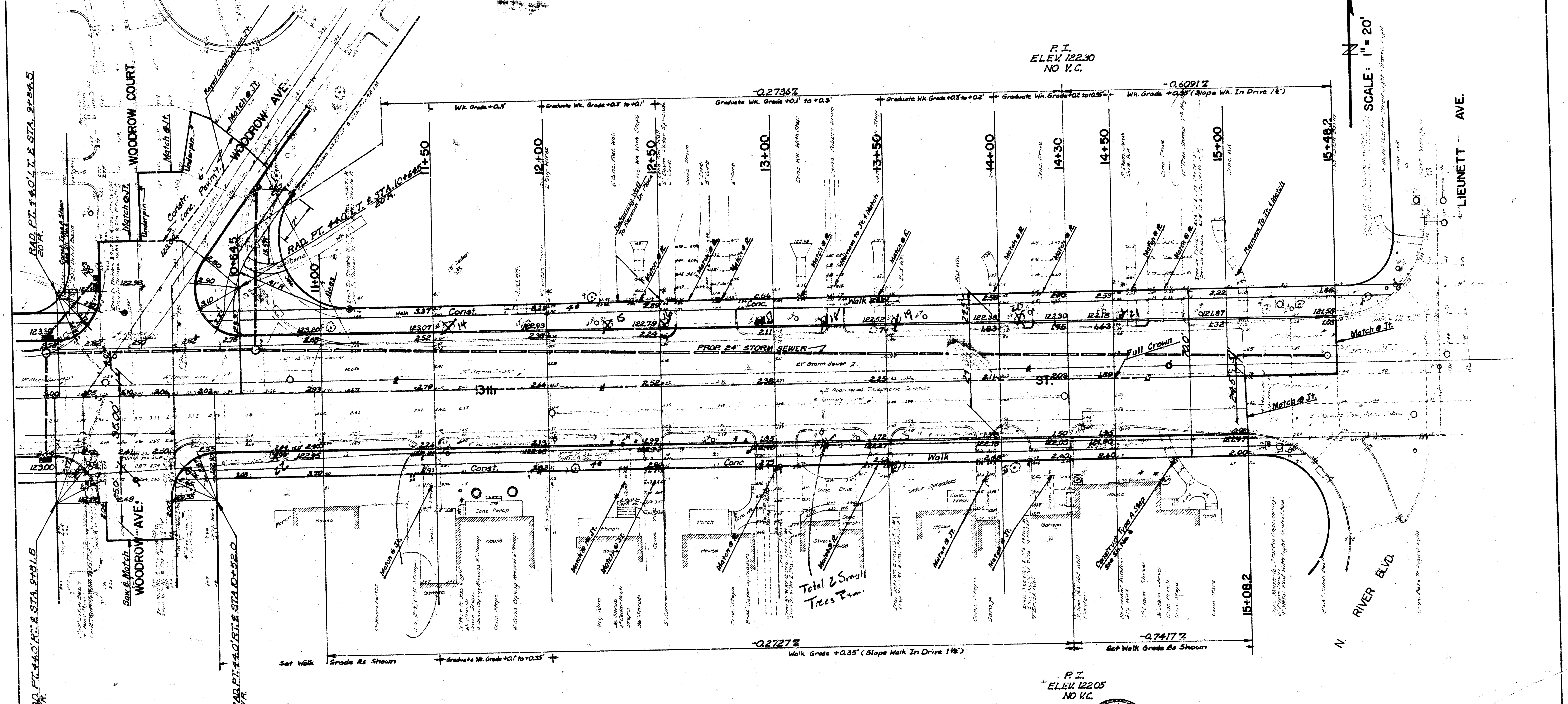

SCALE 1" = 20'
N
+0.2978%
Set Walk Grade As Shown
-0.4431%
Set Walk Grade As Shown
-0.3125%
4+50
5+00
5+50
6+00
RAD. PT. 44.0' LT. & STA. 6+15.4
20'R.
6+15.4
6+85.6
RAD. PT. 44.0' LT. & STA. 6+85.6
20'R.
7+00
7+50
8+00
8+50
9+00
9+50
9+80.0
RAD. PT. 44.0' LT. & STA. 9+80.0
20'R.
Const. Class C Gravity Type Ret. Wall
See Sh. No. 6
WOODROW COURT
WOODROW AVE.
Total 23 Large Trees Remove
AVE.
CONST.
CONC.
WALK
PROP. 24" STORM SEWER
13th
ST.
CONST.
CONC.
5.00 WALK
4.00 WALK
20' ALLEY
20' ALLEY
COOLIDGE
WOODROW AVE.
Frame House
Garage
Brick House
6+11.8
RAD. PT. 44.0' RT. & STA. 6+11.8
20'R.
6+81.9
RAD. PT. 44.0' RT. & STA. 6+81.9
20'R.
9+81.5
RAD. PT. 44.0' RT. & STA. 9+81.5
20'R.
+0.2714%
Set Walk Grade As Shown
-0.4814%
Set Walk Grade As Shown
-0.3125%

LARRY W. LAURSEN 6363

13TH STEET BIG ARKANSAS RIVER TO NORTH RIVER BLVD.

4/13

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.

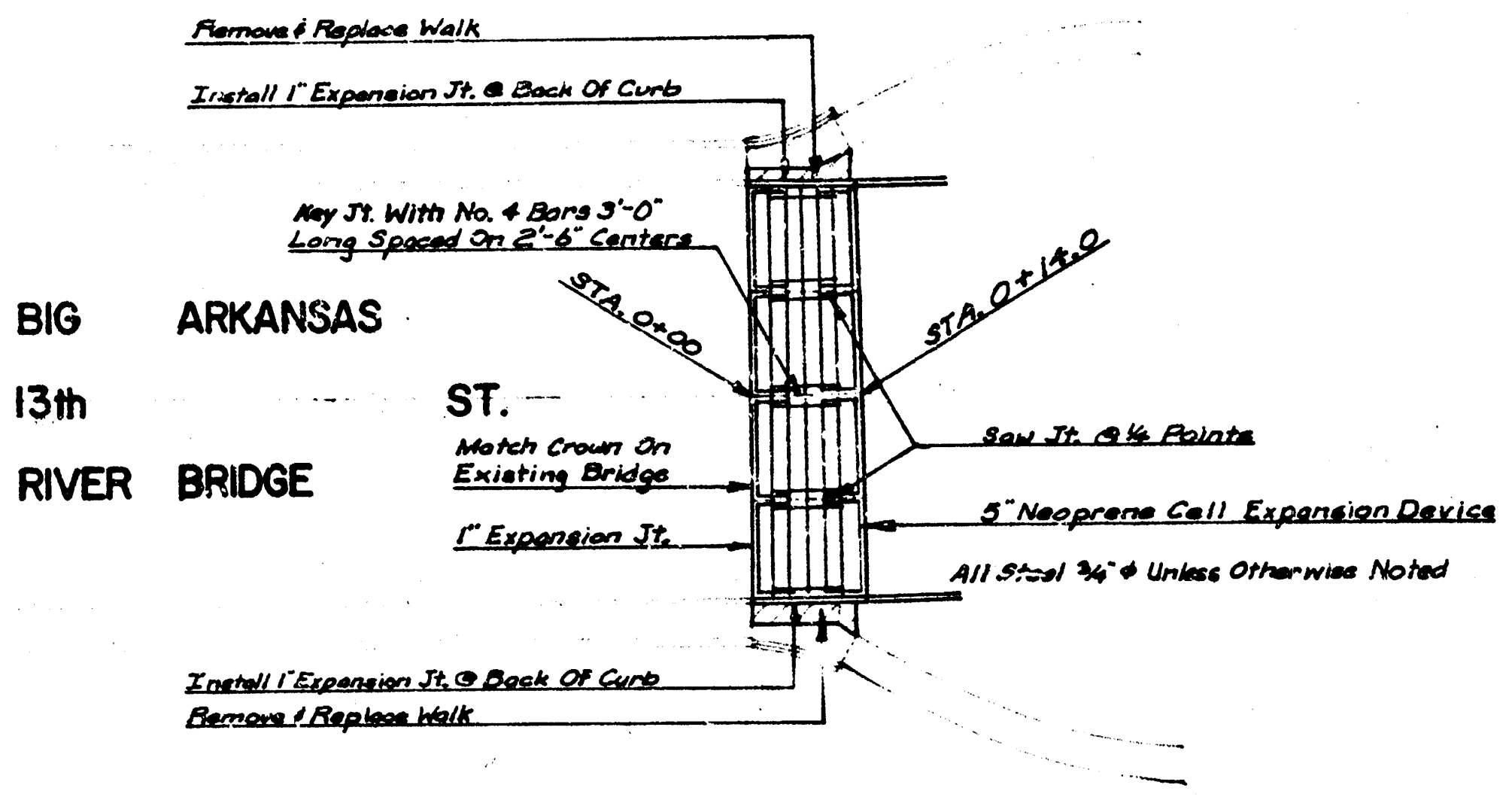


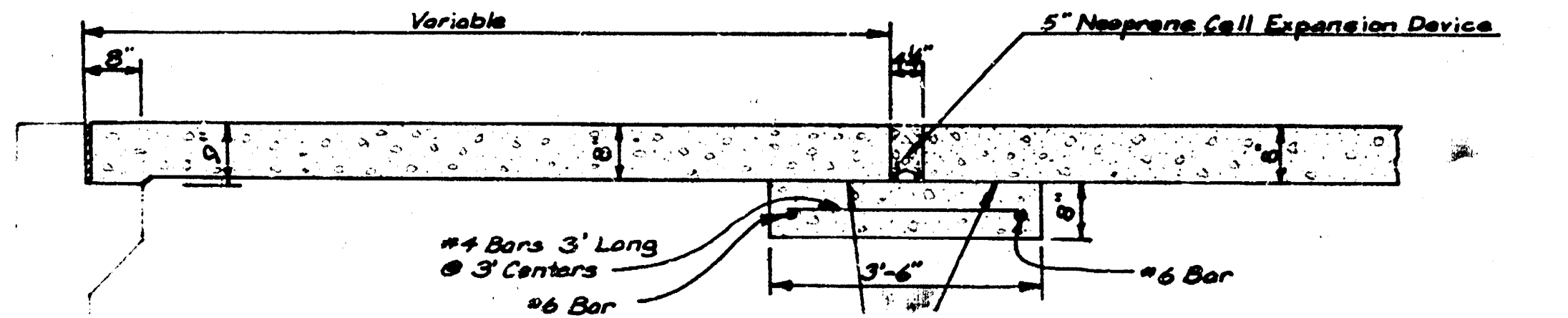
WOODROW COURT
WOODROW AVE.
13th ST.
LIEUNETT AVE.
N. RIVER BLVD.
SCALE: 1" = 20'
N
P.I. ELEV. 122.30 NO V.C.
-0.2736%
-0.6091%
11+00
11+50
12+00
12+50
13+00
13+50
14+00
14+30
14+50
15+00
15+48.2
15+08.2
PROP. 24" STORM SEWER
Full Crown
Conc. Walk
Const.
Match @ Jt.
RAD. PT. 44.0' LT. & STA. 10+64.5 20 R.
RAD. PT. 44.0' RT. & STA. 9+91.5 20 R.
RAD. PT. 44.0' RT. & STA. 10+52.0 20 R.
35.00'
Total 2 Small Trees Rem.
-0.2727%
-0.7417%
Set Walk Grade As Shown
Walk Grade +0.35' (Slope Walk In Drive 1½")
P.I. ELEV. 122.05 NO V.C.

LARRY W. LAURSEN LICENSED 6363 KANSAS PROFESSIONAL ENGINEER

13TH STREET BIG ARKANSAS RIVER TO NORTH RIVER BLVD.

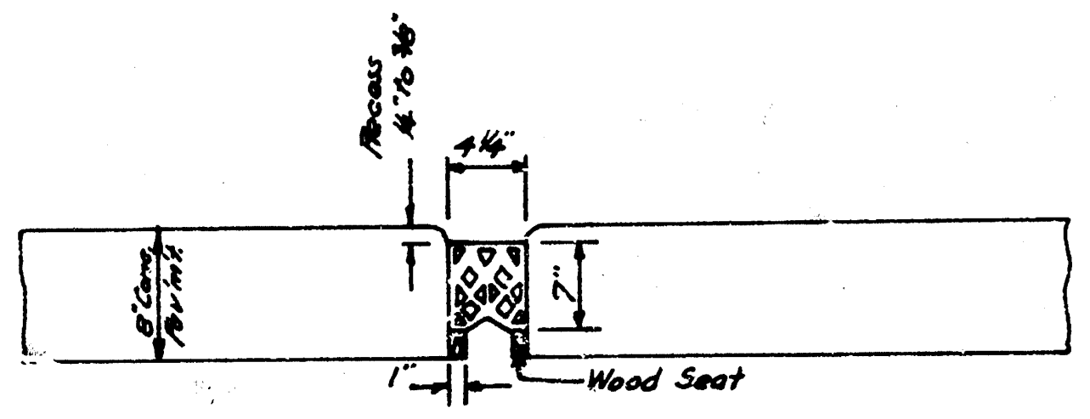
5/13


Remove & Replace Walk
Install 1" Expansion Jt. @ Back Of Curb
Key Jt. With No. 4 Bars 3'-0" Long Spaced On 2'-6" Centers
STA. 0+00
STA. 0+14.0
BIG ARKANSAS RIVER BRIDGE
13th ST.
Match Crown On Existing Bridge
1" Expansion Jt.
Saw Jt. @ ¼ Points
5" Neoprene Cell Expansion Device
All Steel ¾" ϕ Unless Otherwise Noted
Install 1" Expansion Jt. @ Back Of Curb
Remove & Replace Walk


Variable
8"
1¼"
5" Neoprene Cell Expansion Device
9"
8"
8"
#4 Bars 3' Long @ 3' Centers
#6 Bar
3'-6"
#6 Bar
Tar Paper Jt.

NOTE: Extra Thickness Between Bridge Abutment & 8" Concrete Pavement Is Incidental To Bid Price Of 8" Concrete Pavement. All Excavation For Extra Thickness Between Bridge Abutment & 8" Concrete Pavement Is Incidental To The Bid Price Of 8" Concrete Pavement.

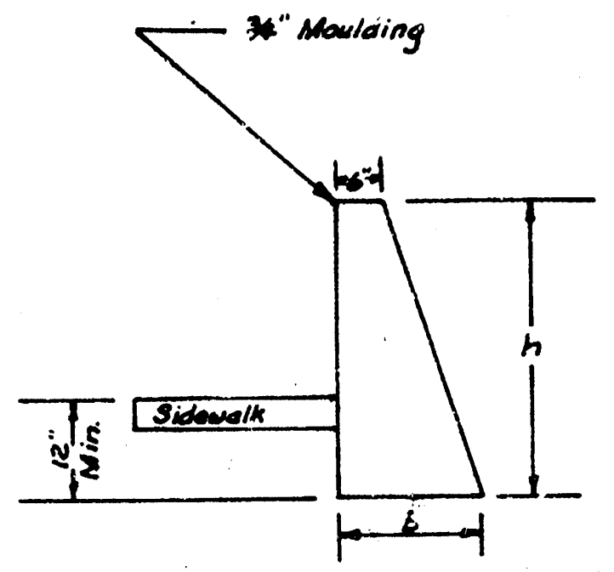
NOTE: Pavement Support Slab To Be Payed As 8" Concrete Pavement.


Recess ¼" To ⅜"
4¼"
8" Conc. Pavm't.
7"
1"
Wood Seat

Install 5" Wide Preformed Open Cell Neoprene Joint Seal. Use "H" Series Delastic Bridge Seal Catalog No. H-5000, D. S. Brown Co. Or An Approved Equal.

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" Long Sections Are To Be Installed Vertical In The Curb Section Of The Roadway Pavement. 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 8" Concrete Pavement.

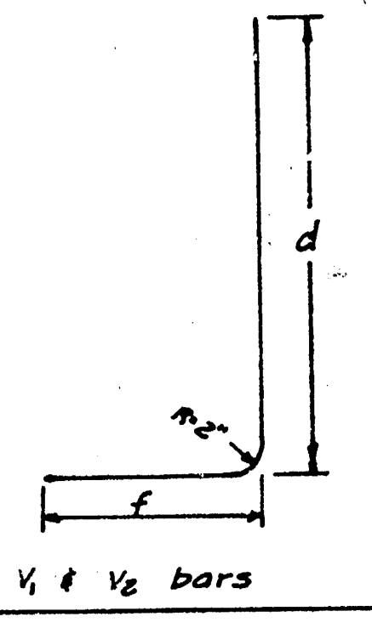
EXPANSION DEVICE DETAILS


¾" Moulding
6"
h
Sidewalk
12" Min.
b

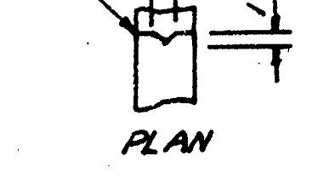
CLASS	DIMENSIONS		Conc/Ft.
	h	b	Cu. Yds.
A	1'-9"	11"	.046
	2'-0"	13"	.059
B	2'-3"	15"	.073
	2'-6"	17"	.089
C	2'-9"	18½"	.104
	3'-0"	20"	.120

GRAVITY TYPE
(Concrete)

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

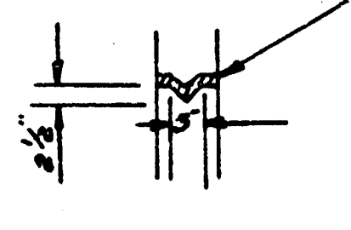


V₁ & V₂ bars



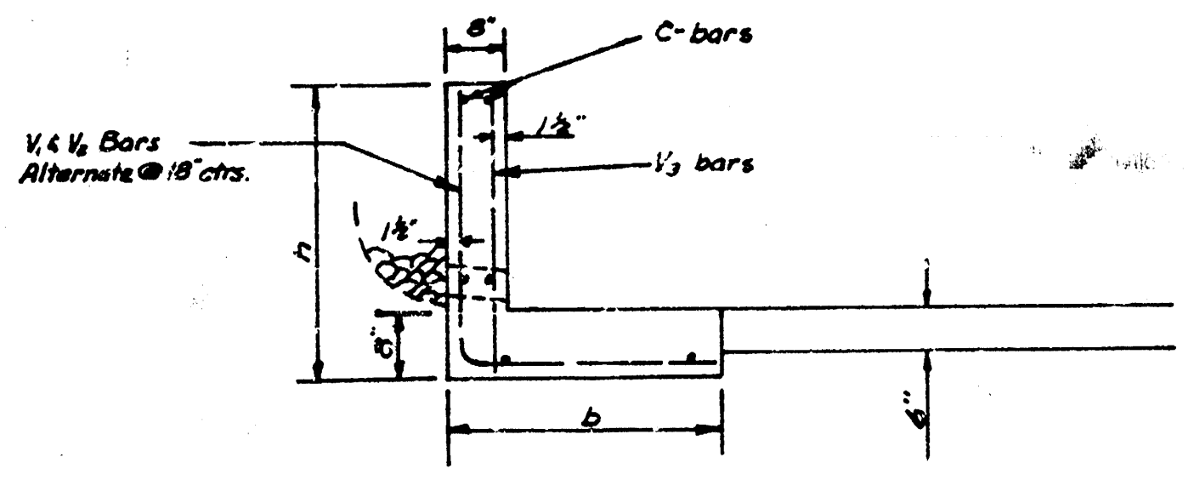
PLAN

Expansion Joints @ 100' Maximum Spacing. 1" Premoulded Expan. Jt. Material. Discontinue Reinf. Steel.



PLAN

CLASS	DIMENSIONS		PER LIN. FT OF WALL	
	h	b	*Reinf. Stl.	c/yd Conc.
A	1'-6"	1'-6"	3.674	.058
	1'-9"	1'-9"	3.896	.070
	2'-0"	2'-0"	4.120	.083
B	2'-3"	2'-3"	6.179	.095
	2'-6"	2'-6"	6.485	.107
C	2'-9"	2'-9"	6.792	.120
	3'-0"	3'-0"	7.097	.132

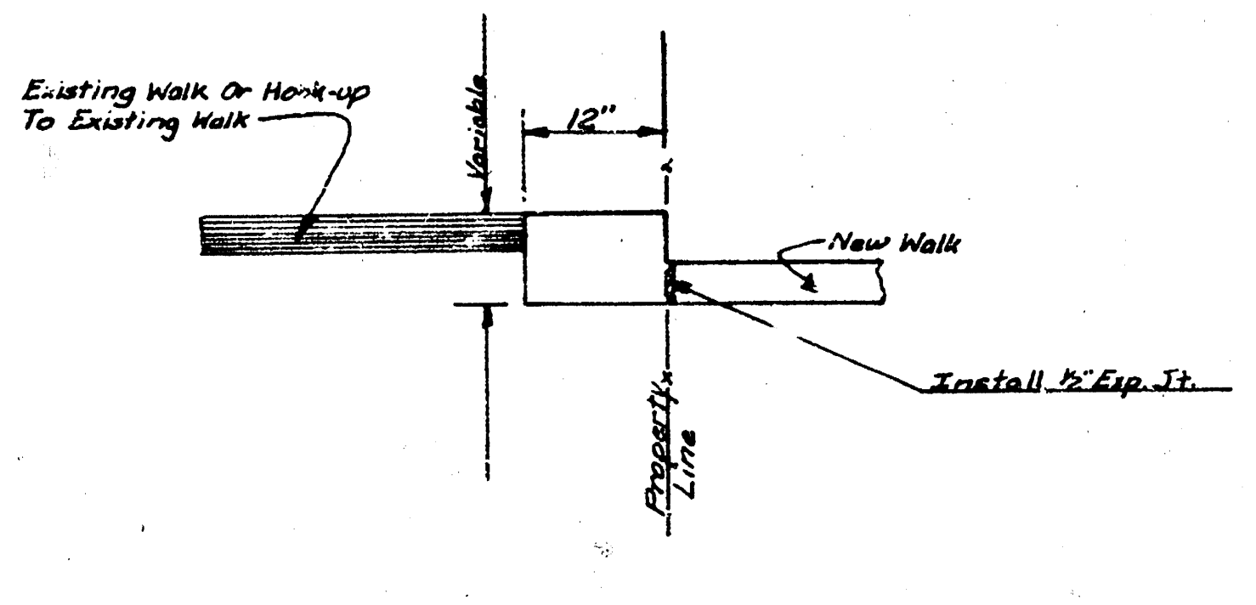

8"
C-bars
V₁ & V₂ Bars Alternate @ 18" ctrs.
1½"
V₃ bars
1½"
h
8"
b
6"

L₁-TYPE RETAINING WALL FOR DRIVEWAYS

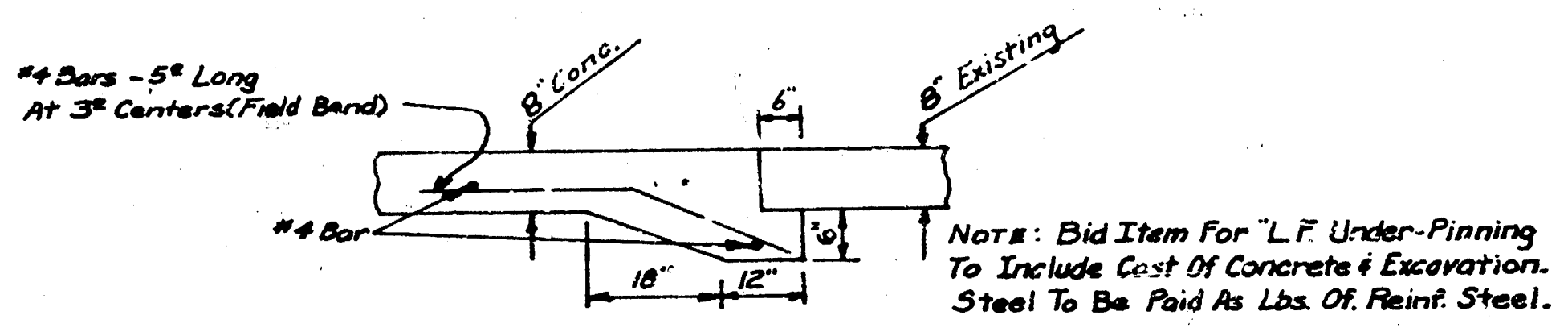
REINF. STEEL SCHEDULE							
L₁-TYPE RETAINING WALL FOR DRIVEWAYS							
h	bar	size	Cutting Length	Spacing	d	f	Remarks
1'-6"	V₁	½" ϕ	2'-3"	18"	1'-1"	1'-3"	L Shape
	C	½" ϕ	4 Horiz. Bars Continuous				Straight
1'-9"	V₁	½" ϕ	2'-9"	18"	1'-4"	1'-6"	L Shape
	C	½" ϕ	4 Horiz. Bars Continuous				Straight
2'-0"	V₁	½" ϕ	3'-3"	18"	1'-7"	1'-9"	L Shape
	C	½" ϕ	4 Horiz. Bars Continuous				Straight
2'-3" Weep Holes	V₁	½" ϕ	3'-9"	36" *	1'-10"	2'-0"	L Shape
	V₂	½" ϕ	3'-0"	36" *	1'-1"	2'-0"	L Shape
	V₃	½" ϕ	2'-0"	24"			Straight
	C	½" ϕ	6 Horiz. Bars Continuous				Straight
2'-6"	V₁	½" ϕ	4'-3"	36" *	2'-1"	2'-3"	L Shape
	V₂	½" ϕ	3'-6"	36" *	1'-4"	2'-3"	L Shape
	V₃	½" ϕ	2'-3"	24"			Straight
	C	½" ϕ	[illegible] Horiz. Bars Continuous				Straight
2'-9"	V₁	½" ϕ	4'-9"	36" *	2'-4"	2'-6"	L Shape
	V₂	½" ϕ	4'-0"	36" *	1'-7"	2'-6"	L Shape
	V₃	½" ϕ	2'-6"	24"			Straight
	C	½" ϕ	6 Horiz. Bars Continuous				Straight
3'-0"	V₁	½" ϕ	5'-3"	36" *	2'-7"	2'-9"	L Shape
	V₂	½" ϕ	4'-6"	36" *	1'-10"	2'-9"	L Shape
	V₃	½" ϕ	2'-9"	24"			Straight
	C	½" ϕ	6 Horiz. Bar Continuous				Straight
* Alternate V₁ & V₂ @ 18" Ctrs.							

NOTE: All excavation for retaining walls shall be included in the bid price per Lin. ft. of retaining wall. The 4" tile weep holes & crushed rock or coarse gravel for drainage, shall be included in the bid price per lin. ft. of retaining wall.

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


Existing Walk Or Hook-up To Existing Walk
Variable
12"
New Walk
Install ½" Exp. Jt.
Property Line

TYPE A STEP DETAIL


#4 Bars - 5' Long At 3' Centers (Field Band)
8" Conc.
6"
8" Existing
#4 Bar
6"
18"
12"

Note: Bid Item For "L.F. Under-Pinning To Include Cost Of Concrete & Excavation. Steel To Be Paid As Lbs. Of Reinf. Steel.

"UNDER-PINNING DETAIL"

LARRY W. LAURSEN
LICENSED
6363
KANSAS
PROFESSIONAL ENGINEER

13 TH STREET BIG ARKANSAS RIVER TO NORTH RIVER BLVD.

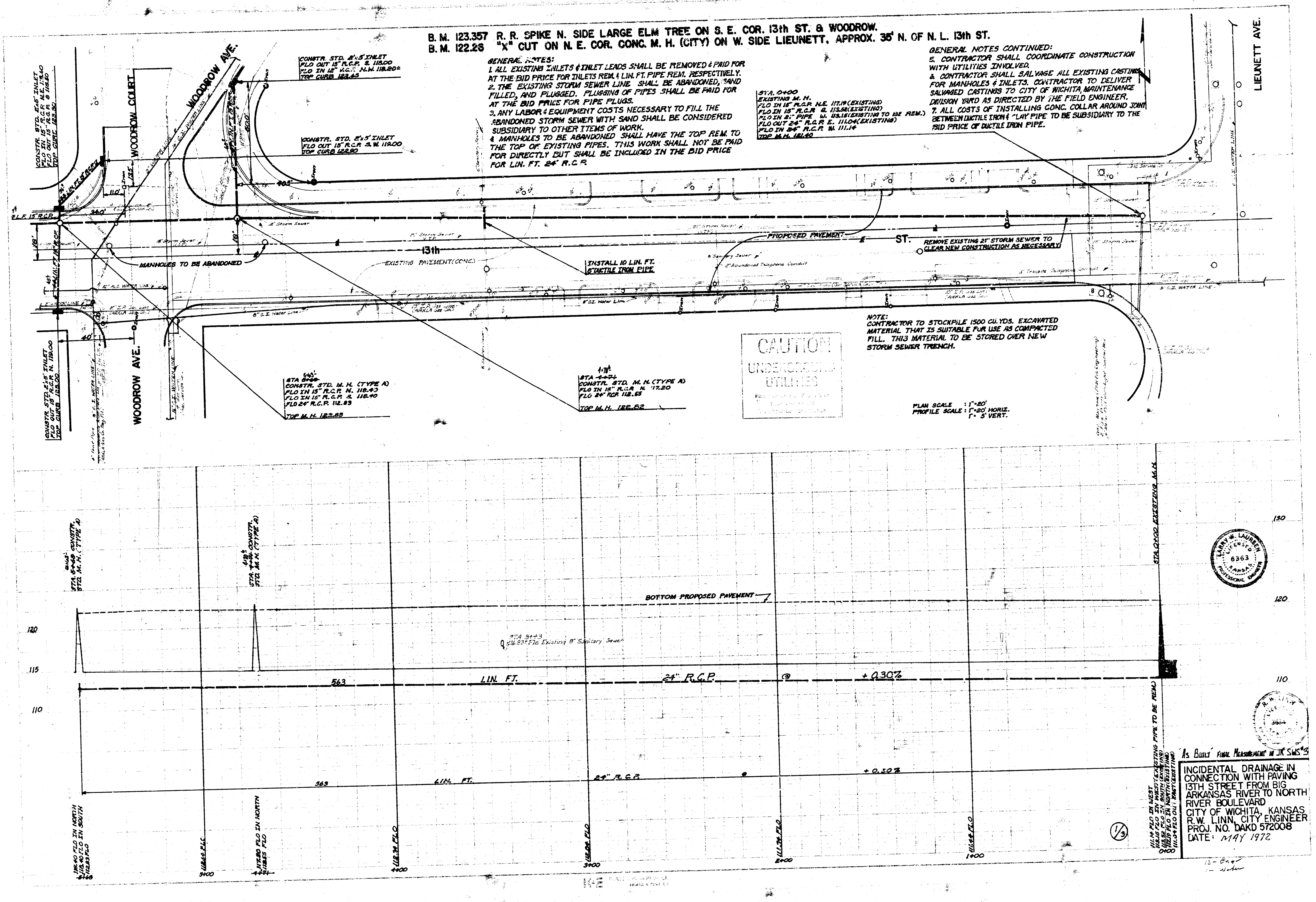
B. M. 123.357 R. R. SPIKE N. SIDE LARGE ELM TREE ON S. E. COR. 13th ST. & WOODROW.
B. M. 122.26 "X" CUT ON N. E. COR. CONC. M. H. (CITY) ON W. SIDE LIEUNETT. APPROX. 35' N. OF N. L. 13th ST.

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.


LIEUNETT AVE.
WOODROW AVE.
WOODROW COURT
WOODROW AVE.
13th
ST.
CONSTR. STD. 2'x5' INLET
FLO OUT 15" R.C.P. S. 118.00
FLO IN 12" V.C.P. N.W. 118.20±
TOP CURB 122.65
CONSTR. STD. 2'x5' INLET
FLO OUT 15" R.C.P. S.W. 119.00
TOP CURB 122.90
CONSTR. STD. 2'x5' INLET
FLO IN 15" R.C.P. N.E. 118.60
FLO OUT 15" R.C.P. S 118.50
TOP CURB 123.30
CONSTR. STD. 2'x5' INLET
FLO OUT 15" R.C.P. N. 119.00
TOP CURB 123.00
STA. 0+00
EXISTING M. H.
FLO IN 15" R.C.P. N.E. 117.19 (EXISTING)
FLO IN 15" R.C.P. S. 113.52 (EXISTING)
FLO IN 8" PIPE W. 113.15 (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. 121.40
STA ~~5+60~~ 5+63
CONSTR. STD. M. H. (TYPE A)
FLO IN 15" R.C.P. N. 118.43
FLO IN 15" R.C.P. S. 118.40
FLO 24" R.C.P. 112.83
TOP M. H. 122.85
STA ~~4+71~~ 4+78
CONSTR. STD. M. H. (TYPE A)
FLO IN 15" R.C.P. N. 117.20
FLO 24" RCP 112.55
TOP M. H. 122.82
MANHOLES TO BE ABANDONED
INSTALL 10 LIN. FT. 6" DUCTILE IRON PIPE
PROPOSED PAVEMENT
EXISTING PAVEMENT (CONC.)
REMOVE EXISTING 21" STORM SEWER TO CLEAR NEW CONSTRUCTION AS NECESSARY
2" Abandoned Telephone Conduit
3" Transite Telephone Conduit
8" Sanitary Sewer
21" Storm Sewer
18" Storm Sewer
12" A.C. WATER LINE
8" C.I. Water Line
16" C.I. WATER LINE
10" I.P. Gas Line (ARKLA Gas Co.)
12" C.I. WATER LINE
Iron
Tree
W.M.
15' LIN. FT. 15" R.C.P.
34' LIN. FT. 15" R.C.P.
44 LIN. FT. 15" R.C.P.
Z L.F. 15" R.C.P.
340'
110'
125'
18'
18'
40'
50.0'
40.5'
IFG. 216
IFA. 217
BOTTOM PROPOSED PAVEMENT
STA. 5+63 CONSTR. STD. M.H. (TYPE A)
STA. 4+78 CONSTR. STD. M.H. (TYPE A)
STA. 0+00 EXISTING M.H.
STA. 3+43 116.83 ± To Existing 8" Sanitary Sewer
563 LIN. FT. 24" R.C.P. @ + 0.30%
563 LIN. FT. 24" R.C.P. + 0.30%
118.40 FLO IN NORTH
118.40 FLO IN SOUTH
112.83 FLO
117.20 FLO IN NORTH
112.55 FLO
112.52 FLO
112.24 FLO
111.98 FLO
111.70 FLO
111.44 FLO
111.14 FLO IN WEST
113.15 FLO IN WEST (EXISTING PIPE TO BE REM.)
113.52 FLO IN SOUTH (EXISTING)
117.19 FLO IN NORTH (EXISTING)
111.04 FLO OUT EAST (EXISTING)
5+63
5+00
4+78
4+00
3+00
2+00
1+00
0+00
130
120
115
110
120
110

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.

CAUTION
UNDERGROUND
UTILITIES

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

LARRY W. LAURSEN
6363

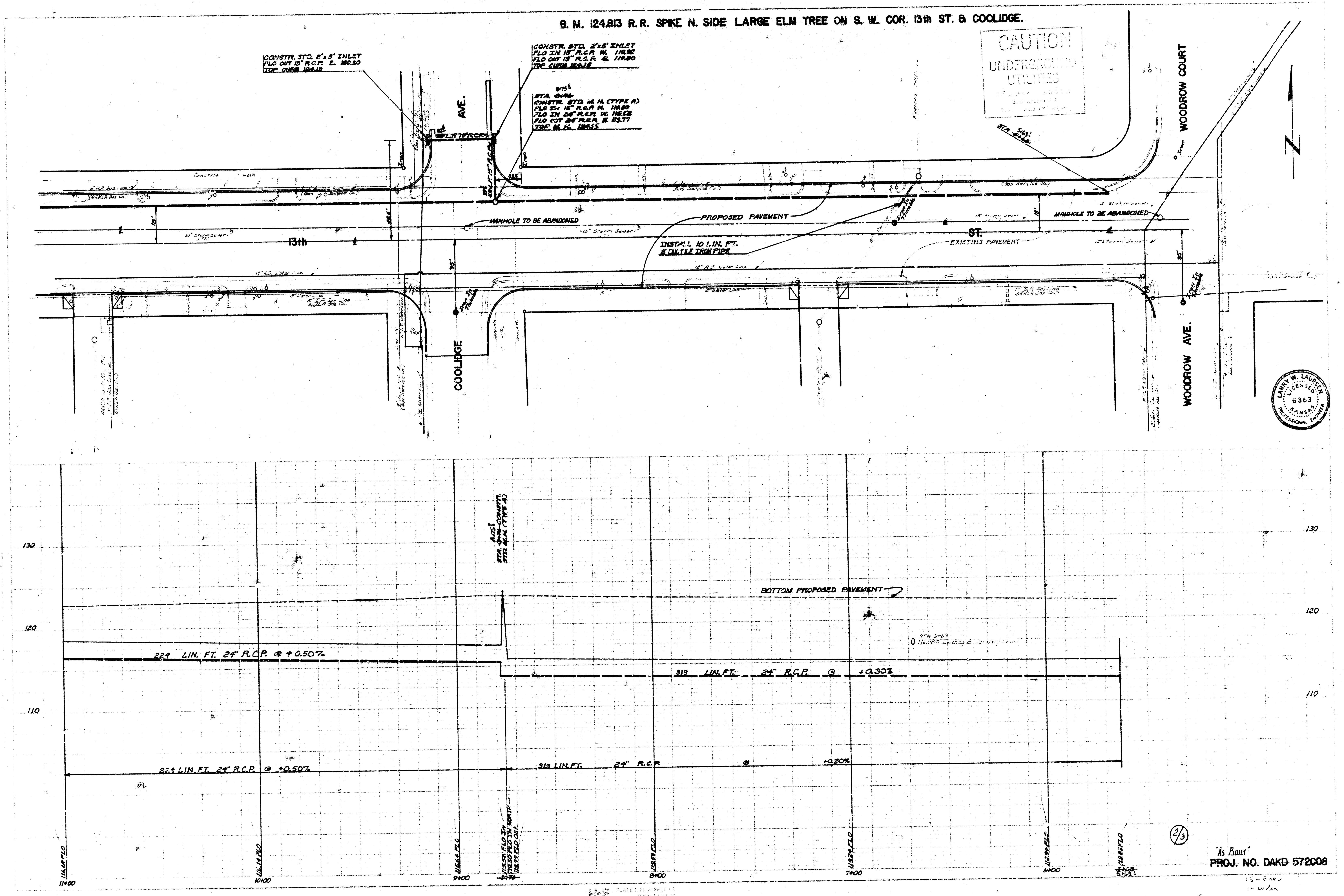
R. W. LINN

"As Built" Final Measurement in JK SWS #3

INCIDENTAL DRAINAGE IN CONNECTION WITH PAVING 13TH STREET FROM BIG ARKANSAS RIVER TO NORTH RIVER BOULEVARD
CITY OF WICHITA, KANSAS
R.W. LINN, CITY ENGINEER
PROJ. NO. DAKD 572008
DATE: MAY 1972

1/3

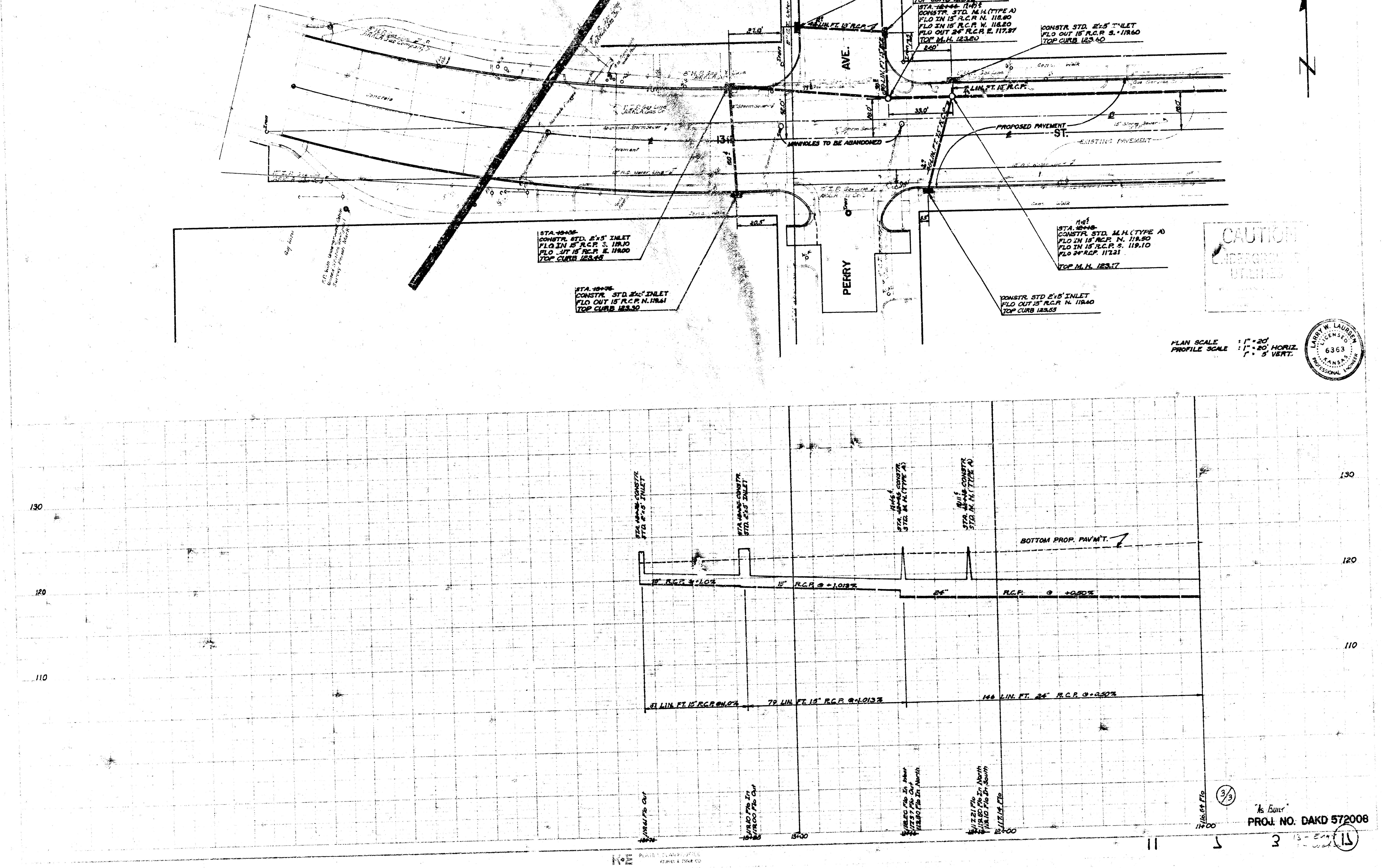
13 - Eng
1 - Water


B. M. 124.813 R.R. SPIKE N. SIDE LARGE ELM TREE ON S. W. COR. 13th ST. & COOLIDGE.
CONSTR. STD. 2'x5' INLET
FLO OUT 15" R.C.P. E. 120.20
TOP CURB 124.15
CONSTR. STD. 2'x5' INLET
FLO IN 15" R.C.P. W. 119.90
FLO OUT 15" R.C.P. E. 119.80
TOP CURB 124.15
STA. ~~8+76~~ 8+75±
CONSTR. STD. M.H. (TYPE A)
FLO IN 15" R.C.P. N. 119.80
FLO IN 24" R.C.P. W. 115.52
FLO OUT 24" R.C.P. E. 113.77
TOP M.H. 124.15
CAUTION
UNDERGROUND
UTILITIES
STA. ~~5+68~~ 5+43!
AVE.
COOLIDGE
13th
ST.
WOODROW COURT
WOODROW AVE.
N
MANHOLE TO BE ABANDONED
MANHOLE TO BE ABANDONED
PROPOSED PAVEMENT
EXISTING PAVEMENT
INSTALL 10 LIN. FT.
8" DUCTILE IRON PIPE
15" Storm Sewer
18" Storm Sewer
18" A.C. Water Line
8" Water Line
Gas Service Co.
Iron In Thimble
35'
18'
LARRY W. LAURSEN
LICENSED
6363
KANSAS
PROFESSIONAL ENGINEER
130
120
110
STA. ~~8+76~~ 8+75± CONSTR. STD. M.H. (TYPE A)
BOTTOM PROPOSED PAVEMENT
STA. 5+63 116.98± Existing 8" Sanitary Sewer
224 LIN. FT. 24" R.C.P. @ +0.50%
313 LIN. FT. 24" R.C.P. @ +0.30%
224 LIN. FT. 24" R.C.P. @ +0.50%
313 LIN. FT. 24" R.C.P. @ +0.30%
116.64 FLO
116.14 FLO
115.64 FLO
115.52 FLO IN
119.80 FLO IN NORTH
113.77 FLO OUT
113.87 FLO
113.24 FLO
112.96 FLO
112.83 FLO
11+00
10+00
9+00
~~8+76~~
8+00
7+00
6+00
~~5+68~~ 5+43!
2/3

"As Built"
PROJ. NO. DAKD 572008

13 – Engr
1 – w Den

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.


N
AVE.
PERRY
13th
ST.
MANHOLES TO BE ABANDONED
PROPOSED PAVEMENT
EXISTING PAVEMENT
Conc. Walk
Gas Line
Gas Service
15" Storm Sewer
Water Line
27.0'
24.0'
33.0'
18.0'
20.5'
2 LIN. FT. 15" R.C.P.
CONSTR. STD. 2'x 5' INLET
FLO OUT 15" R.C.P. E. 119.60
TOP CURB 123.78
CONSTR. STD. 2'x5' INLET
FLO IN 15" R.C.P. W. 119.20
FLO OUT 15" R.C.P. S. 119.10
TOP CURB 123.63
STA. ~~12+46~~ 11+47.5
CONSTR. STD. M.H. (TYPE A)
FLO IN 15" R.C.P. N. 118.80
FLO IN 15" R.C.P. W. 118.20
FLO OUT 24" R.C.P. E. 117.97
TOP M.H. 123.20
CONSTR. STD. 2'x5' INLET
FLO OUT 15" R.C.P. S. 119.60
TOP CURB 123.60
STA. ~~13+35~~
CONSTR. STD. 2'x5' INLET
FLO IN 15" R.C.P. S. 119.10
FLO OUT 15" R.C.P. E. 119.00
TOP CURB 123.45
STA. ~~13+76~~
CONSTR. STD. 2'x5' INLET
FLO OUT 15" R.C.P. N. 119.61
TOP CURB 123.30
11+11.5
STA. ~~12+18~~
CONSTR. STD. M.H. (TYPE A)
FLO IN 15" R.C.P. N. 119.50
FLO IN 15 R.C.P. S. 119.10
FLO 24" R.C.P. 117.21
TOP M.H. 123.17
CONSTR. STD 2'x5' INLET
FLO OUT 15" R.C.P. N. 119.60
TOP CURB 123.55
CAUTION
UNDERGROUND
UTILITIES
PLAN SCALE : 1" = 20'
PROFILE SCALE : 1" = 20' HORIZ.
1" = 5' VERT.
130
120
110
STA. ~~13+76~~ CONSTR. STD. 2'x5' INLET
STA. ~~13+35~~ CONSTR. STD. 2'x5' INLET
11+46.4 STA. ~~12+46~~ CONSTR. STD. M.H. (TYPE A)
11+11.5 STA. ~~12+18~~ CONSTR. STD. M.H. (TYPE A)
BOTTOM PROP. PAV'M'T.
15" R.C.P. @ +1.0%
15" R.C.P. @ +1.013%
24" R.C.P. @ +0.50%
51 LIN. FT. 15" R.C.P. @+1.0%
79 LIN. FT. 15" R.C.P. @+1.013%
146 LIN. FT. 24" R.C.P. @+0.50%
119.61 Flo Out
119.10 Flo In
119.00 Flo Out
118.80 Flo In West
117.97 Flo Out
118.80 Flo In North
117.21 Flo
119.50 Flo In North
119.10 Flo In South
117.14 Flo
116.64 Flo
~~13+76~~
~~13+35~~
13+00
~~12+46~~
~~12+18~~
12+00
11+00

Larry W. Laursen
Licensed Professional Engineer
6363
Kansas

3/3

"As Built"

PROJ. NO. DAKD 572008

11 2 3

13 - Eng
1 - [illegible]

11