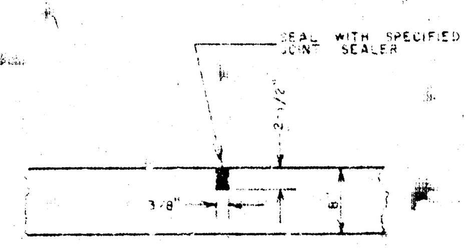
13th St.

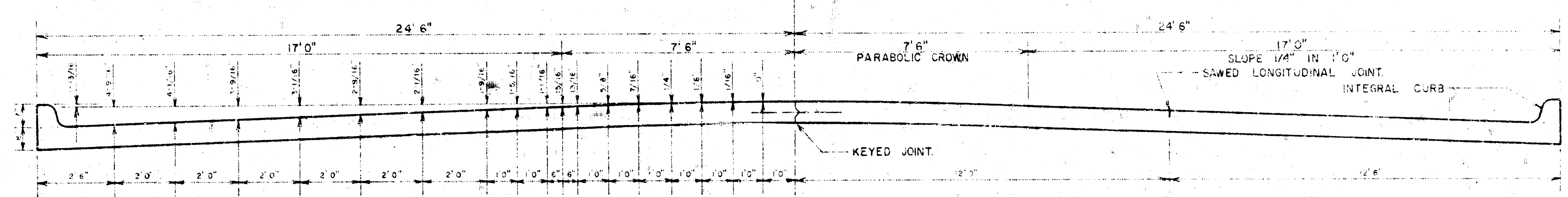
LITTLE ARK. RIVER to W.L. WACO

PROJ. NO. DAKM 572009
CITY OF WICHITA, KANSAS
R. W. LINN, CITY ENGINEER

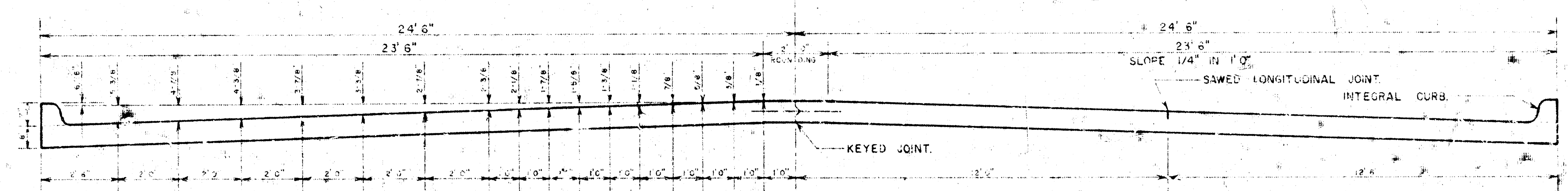
SAWED CONTRACTION JOINTS ARE TO BE CONSTRUCTED AT 30' 0" INTERVALS EXCEPT WHERE AN EXPANSION JOINT IS USED.



DETAIL OF SAWED CONTRACTION AND LONGITUDINAL JOINTS

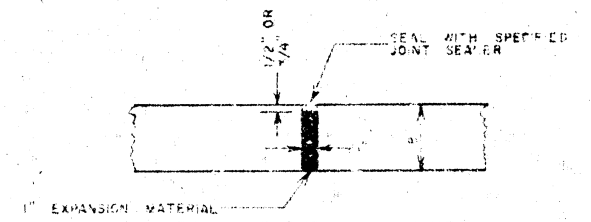


TYPICAL SECTION WITH STANDARD CROWN
48' 0" CONCRETE PAVEMENT

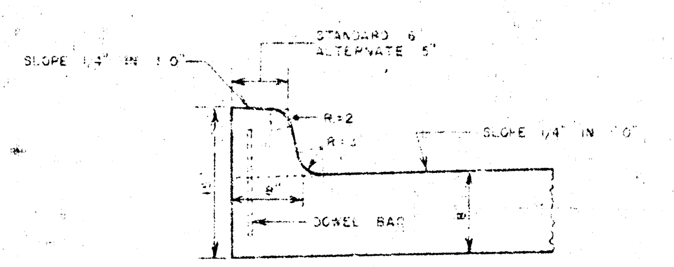


TYPICAL SECTION WITH ALTERNATE CROWN
48' 0" CONCRETE PAVEMENT

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



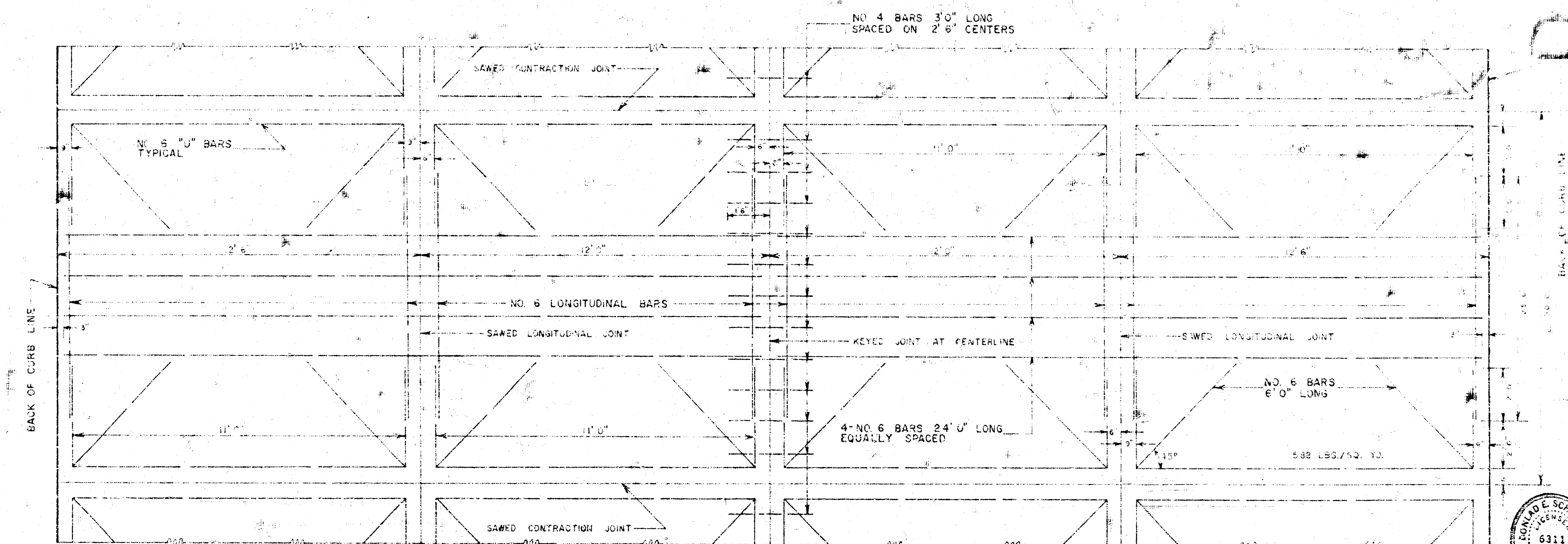
DETAIL OF EXPANSION JOINT



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.



TYPICAL STEEL PATTERN
48' 0" CONCRETE PAVEMENT

DONLAD E. SCHNEIDER LICENSED 6311 KANSAS PROFESSIONAL ENGINEER

SHEET NO. 1 OF 8

B.M. 1162.0 Brass Rod in concrete post 37' E. and 23' S. of 13th and Broadway

Thimble #1, Sta. 4+00. on Section line.
Thimble #2, Sta. 4+57+, 29.8' S. of Sechenlaw
Thimble #3, Sta. 4+57+, 24' S. of Thimble #2

~~B.M. 1167 RE. con conc. base of signal control box at R.R., & of 13th and W. of Market~~

B.M. 1124.07 City of Wichita bench mark, disc at end of N.E. wingwall of bridge.

Note: All inlet and pipe removal will be done by drainage contractor.

Note: Engineer and contractor need to determine location of tree drives for North High by contacting Board of Education.

Note: The adjustment of manholes shall be considered incidental to the bid price per sq. yd. of pavement. The field engineer shall determine where new manhole frames and covers are needed. New manhole frames and covers shall be paid by force account.

Note: Field engineer to recross-section areas where storm sewer contractor stored excavated material over new storm sewer trench.

N

Scale 1"=20'

0+00 0+50 1+00 1+50 2+00 2+50 3+00 3+50 4+00 4+50 5+00 5+50 6+00

Sta. 1+28.7 P.V.C.
Sta. 1+63.7 P.V.I. 70' V.C. Elev. 123.62
Sta. 1+98.7 P.V.R.C.
Sta. 2+58.7 P.V.I. 120' V.C. Elev. 119.55
Sta. 3+18.7 P.V.T.

-0.800% -4.300% -4.300% -0.200% -0.200% +0.200% -0.300%

LITTLE ARKANSAS RIVER

BRIDGE DECK

13th St.

LEWELLEN

Proposed berm

Match at exist. E.S. of bridge

Note: Construct expansion device. See pg. 4 for detail

See detail of special walk section pg. 3

*Construct full sidewalk East side bridge to Lewellen

60' Right-of-way to Lewellen

Notes: Match @ top step

Sidewalk entrance to North High School

Traffic signal with camera, etc.

Traffic signal with concrete base

Water valve

Power pole with light

Sta. 4+87.3

Sta. 5+75

-0.285 %

+0.200%

Sta. 4+10.0

6" Water line

2" Water line

Note: Engineer take ties to all thimbles and replace.

Note: 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.

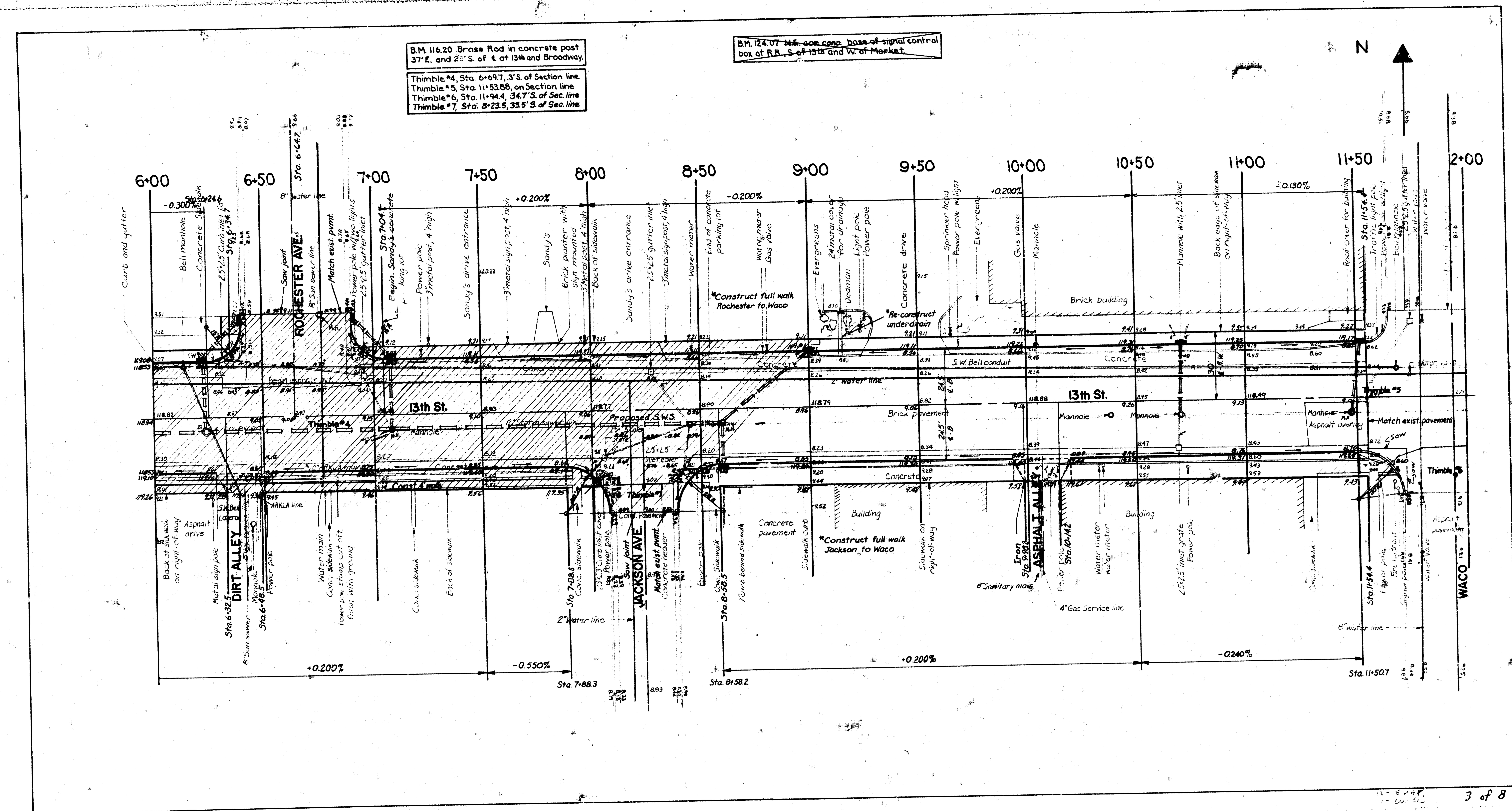
Note: Field engineer shall approve all borrow excavation before it is used on this property.

Earthwork Quantities

Excavation	Compacted Fill
145.9 cu. yds.	64.4 cu. yds.
+10% 14.5	+10% 6.4
159.9 cu. yds.	70.8 cu. yds.

13th St.
Little Arkansas to W.L. Waco Ave.
R.W. Linn City Engineer
City of Wichita, Kansas
Date May 1972 Proj. No. DAKM 572009

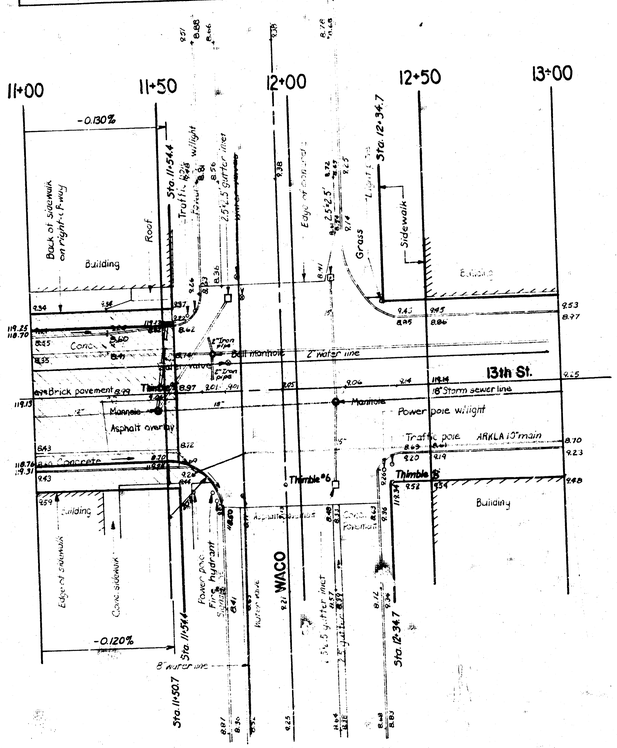
2 of 8

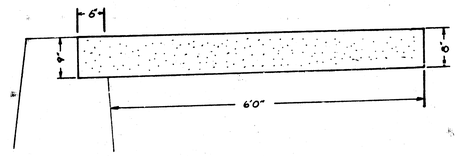

B.M. 116.20 Brass Rod in concrete post 37'E. and 23' S. of ℄ at 13th and Broadway.
Thimble #4, Sta. 6+69.7, .3'S. of Section line
Thimble #5, Sta. 11+53.88, on Section line
Thimble #6, Sta. 11+94.4, 34.7'S. of Sec. line
Thimble #7, Sta. 8+23.5, 33.5'S. of Sec. line
B.M. 124.07 base of signal control box at R.R. S of 13th and W. of Market
N
6+00
6+50
7+00
7+50
8+00
8+50
9+00
9+50
10+00
10+50
11+00
11+50
12+00
-0.300%
+0.200%
-0.200%
+0.200%
-0.130%
+0.200%
-0.550%
+0.200%
-0.240%
Sta. 6+24.6
Sta. 6+34.7
Sta. 6+64.7
Sta. 7+04.1
Sta. 11+54.4
Sta. 6+32.5
Sta. 6+48.5
Sta. 7+08.5
Sta. 7+88.3
Sta. 8+58.2
Sta. 8+58.5
Sta. 9+98.2
Sta. 10+14.2
Sta. 11+50.7
Curb and gutter
Bell manhole
Concrete Sidewalk
2.5'x2.5' Curb inlet
Saw joint
ROCHESTER AVE.
8" San sewer line
8" water line
Match exist. pvmt.
Power pole with two lights
2.5'x2.5' gutter inlet
Begin Sandy's concrete parking lot
Power pole
3" metal post, 4' high
Sandy's drive entrance
3" metal sign post, 4' high
Sandy's
Brick planter with sign mounted
3" Metal post, 4' high
Back of sidewalk
Sandy's drive entrance
2.5'x2.5' gutter inlet
3" metal sign post, 4' high
Water meter
End of concrete parking lot
*Construct full walk Rochester to Waco
Water meter
Gas valve
Evergreens
24" metal cover for drainage
Deadman
Light pole
Power pole
*Re-construct underdrain
Concrete drive
Sprinkler head
Power pole w/ light
Evergreens
Gas valve
Manhole
Brick building
Manhole with 2.5' inlet
Back edge of sidewalk on right-of-way
Roof corner for building
Traffic light pole
Bell manhole
2.5'x2.5' gutter inlet
Water valve
Water valve
Begin asphalt pvt.
13th St.
Thimble #4
Manhole
12" Storm sewer line
Proposed S.W.S.
Concrete
S.W. Bell conduit
2" water line
Brick pavement
24.5'
30' R.W.
Manhole
Asphalt overlay
Match exist. pavement
Saw
Thimble #5
Thimble #6
Thimble #7
ARKLA line
Const. 4' walk
25'x2.5'
Inlet cover
Conc. Pavement
Concrete
Building
Concrete pavement
*Construct full walk Jackson to Waco
Back of sidewalk on right-of-way
Asphalt drive
Metal sign pole
DIRT ALLEY
SW Bell Lateral
8" San sewer
Manhole
Power pole
Water main
Conc. sidewalk
Power pole stump cut off flush with ground
Conc. sidewalk
Back of sidewalk
Conc. sidewalk
2.5'x2.5' Curb inlet cover
Power pole
Saw joint
JACKSON AVE.
Match exist. pvmt.
Concrete header
Power pole
Conc. Sidewalk
Curb behind sidewalk
2" water line
Sidewalk curb
Sidewalk on right-of-way
Iron
ASPHALT ALLEY
8" Sanitary main
Power pole
4" Gas Service line
Water meter
water meter
2.5'x2.5' inlet grate
Power pole
Conc. sidewalk
Power pole
Fire hydrant
Signal pole
Water valve
Asphalt pavement
8" water line
WACO

B.M. 116.20 Brass Rod in concrete post 37' E. and 23' S. of ℄ 13th and Broadway

B.M. 124.07 N.E. corner concrete base signal control box at R.R., S. of 13th and W. of Market.

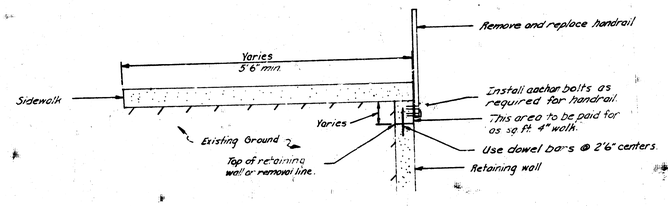
Thimble #5, Sta. 11+53.88, on Section line
Thimble #6, Sta. 11+94.4, 34.7' S. of Sec. line
Thimble #8, Sta. 12+34.7, 34.6' S. of Sec. line.





Detail Pavement Seat at Bridge

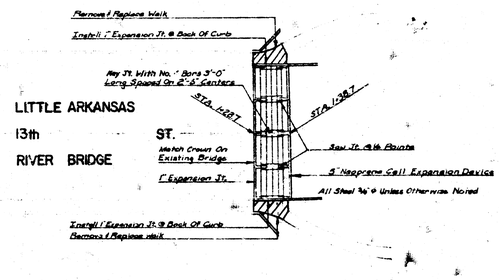
Scale 1"=1'

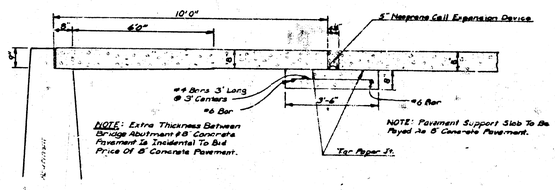


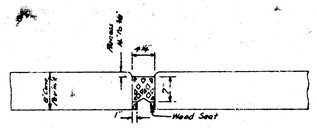
Sidewalk Detail at Handrail

Note: Cost of furnishing and installing anchor bolts to be included in bid price for removing and replacing handrail.

N



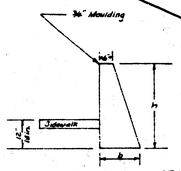




Install 3" Wide Preformed Open Cell Neoprene Joint Seal. Use "H" Series Dekastic Bridge Seal Catalog No. H-3000, D. S. Brown Co. Or An Approved Equal.

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 3%. 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.

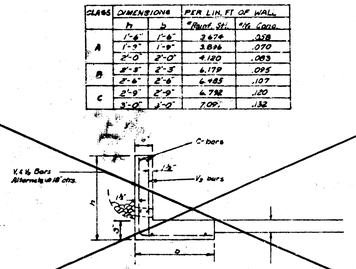
EXPANSION DEVICE DETAILS



CLASS	DIMENSIONS h	b	Conc/Ft Cu. Yds
A	1'-8"	11"	.046
	2'-0"	13"	.059
B	2'-3"	15"	.073
	2'-6"	17"	.089
C	2'-9"	188"	.104
	3'-0"	20"	.120

GRAVITY TYPE
(Concrete)

CLASS	DIMENSIONS h	b	PER LIN. FT. OF WALL #Reinf. Stl.	#Conc.
A	1'-6"	1'-6"	3.674	.078
	1'-9"	1'-9"	3.896	.070
	2'-0"	2'-0"	4.120	.093
B	2'-3"	2'-3"	4.179	.095
	2'-6"	2'-6"	4.985	.107
C	2'-9"	2'-9"	4.792	.120
	3'-0"	3'-0"	7.09	.132



L, -TYPE RETAINING WALL FOR DRIVEWAYS

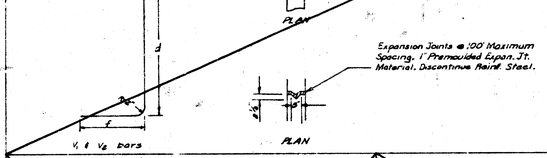
REINF. STEEL SCHEDULE
L, -TYPE RETAINING WALL FOR DRIVEWAYS

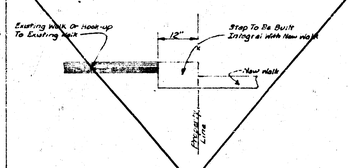
h	bar	size	Cutting Length	Spacing	d	f	Remarks
1'-6"	V	#5 @	6'-3"	18"	1'-7"	1'-3"	L Shape
	C	#5 @	6'-3"	#4 Bars Continuous			Straight
1'-9"	V	#5 @	5'-8"	18"	1'-6"	1'-6"	L Shape
	C	#5 @		#4 Horiz. Bars Continuous			Straight
2'-0"	V	#5 @	5'-8"	18"	1'-7"	1'-8"	L Shape
	C	#5 @		#4 Horiz. Bars Continuous			Straight
2'-3"	V	#5 @	5'-9"	36" @	1'-10"	2'-0"	L Shape
Weep Holes	V1	#5 @	3'-0"	36" @	1'-1"	2'-0"	L Shape
	V2	#5 @	2'-0"	24"			Straight
	C	#5 @		6 Horiz. Bars Continuous			
2'-6"	V	#5 @	6'-3"	36" @	2'-1"	2'-3"	L Shape
	V1	#5 @	3'-6"	36" @	1'-10"	2'-3"	L Shape
	V2	#5 @	2'-3"	24"			Straight
	C	#5 @		6 Horiz. Bars Continuous			
2'-9"	V	#5 @	6'-9"	36" @	2'-4"	2'-6"	L Shape
	V1	#5 @	4'-0"	36" @	1'-7"	2'-6"	L Shape
	V2	#5 @	2'-6"	24"			Straight
	C	#5 @		6 Horiz. Bars Continuous			
3'-0"	V	#5 @	5'-3"	36" @	2'-7"	2'-9"	L Shape
	V1	#5 @	4'-0"	36" @	1'-10"	2'-9"	L Shape
	V2	#5 @	2'-9"	24"			Straight
	C	#5 @		6 Horiz. Bar Continuous			

@ Alternate V, & V2 @ 18" Ctrs.

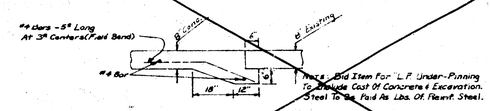
NOTE: All excavation for retaining walls shall be included in the bid price per Lin ft of retaining wall. The 4" tile weepholes & crushed rock or coarse gravel for drainage, shall be included in the bid price per lin ft of retaining wall.

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



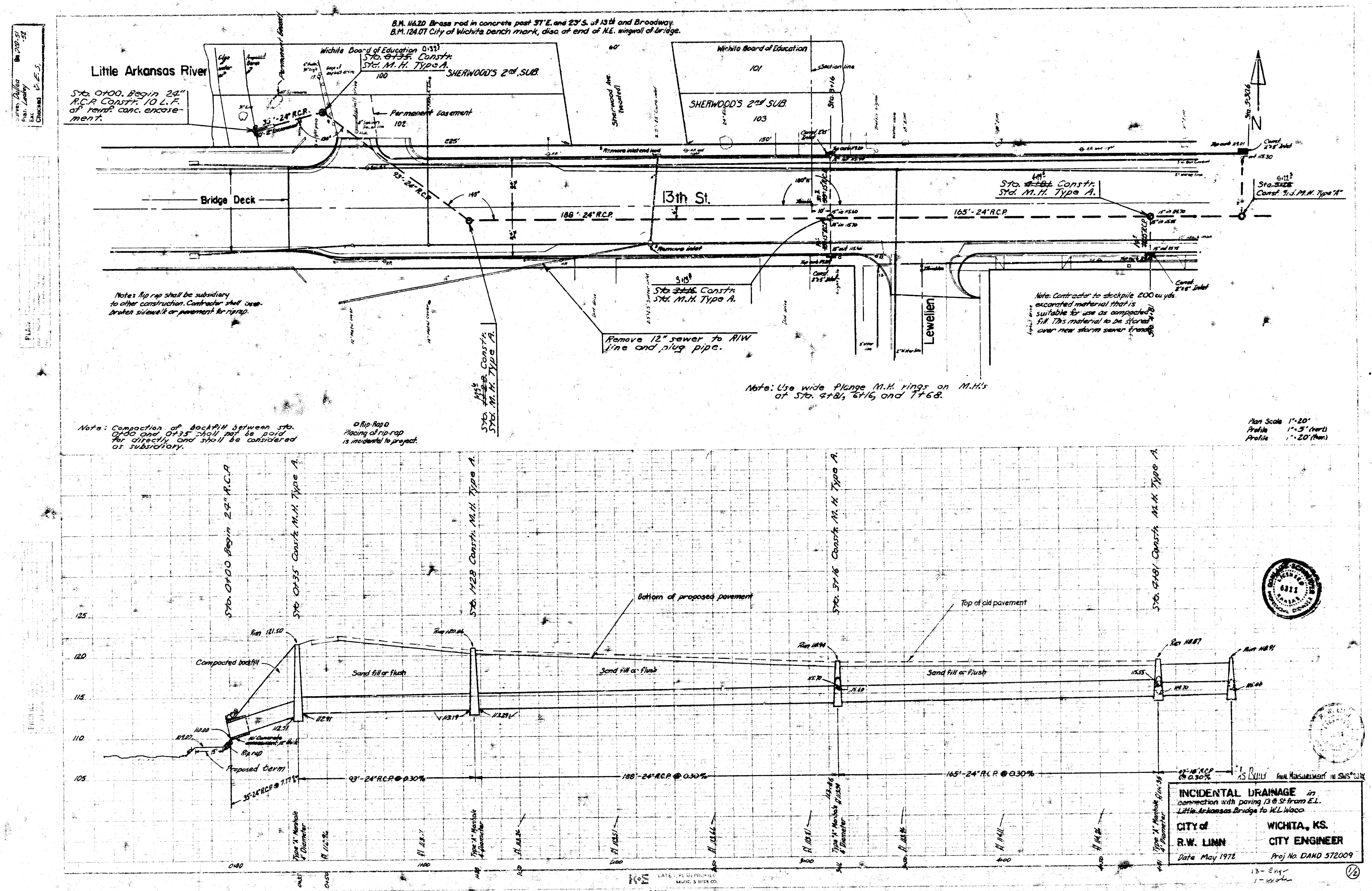


TYPE A STEP DETAIL

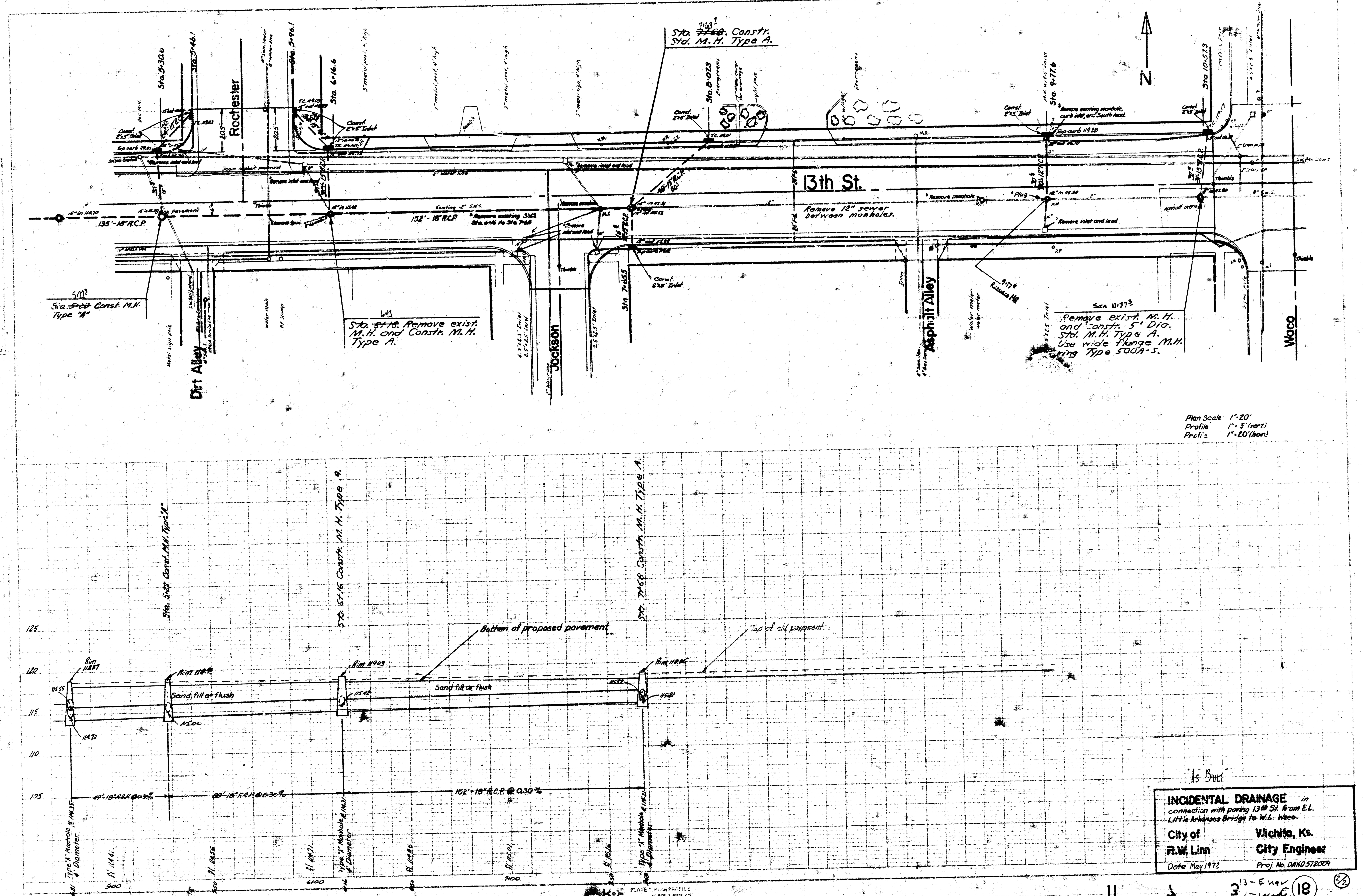


"UNDER-PINNING DETAIL"

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



B.M. 116.20 Brass rod in concrete post 37' E. and 23' S. of 13th and Broadway.
B.M. 124.07 City of Wichita bench mark, disc at end of N.E. wingwall of bridge.
Little Arkansas River
Sta. 0+00. Begin 24" R.C.P. Constr. 10 L.F. of reinf. conc. encasement.
Wichita Board of Education
Sta. 0+35. Constr. Std. M.H. Type A.
SHERWOOD'S 2nd SUB.
Permanent Easement
Sherwood Ave. (vacated)
Wichita Board of Education
Section line
Sta. 3+16
Bridge Deck
93'-24" R.C.P.
13th St.
188'-24" R.C.P.
165'-24" R.C.P.
Sta. 4+81 Constr. Std. M.H. Type A.
Sta. 5+30.6
N
Const. 2'x5' Inlet
Sta. 5+23 Const. Std. M.H. Type "A"
Remove inlet and lead
Remove inlet
Sta. 3+16 Constr. Std. M.H. Type A.
Remove 12" sewer to R/W line and plug pipe.
Lewellen
Notes: Rip rap shall be subsidiary to other construction. Contractor shall use broken sidewalk or pavement for riprap.
Sta. 1+28 Constr. Std. M.H. Type A.
Note: Contractor to stockpile 200 cu yds. excavated material that is suitable for use as compacted fill. This material to be stored over new storm sewer trench.
Note: Use wide flange M.H. rings on M.H.'s at Sta. 4+81, 6+16, and 7+68.
Note: Compaction of backfill between sta. 0+00 and 0+35 shall not be paid for directly and shall be considered as subsidiary.
Rip-Rap
Placing of rip-rap is incidental to project.
Plan Scale 1"=20'
Profile 1"=5' (vert)
Profile 1"=20' (hor.)
Sta. 0+00 Begin 24" R.C.P.
Sta. 0+35 Constr. M.H. Type A.
Sta. 1+28 Constr. M.H. Type A.
Sta. 3+16 Constr. M.H. Type A.
Sta. 4+81 Constr. M.H. Type A.
Bottom of proposed pavement
Top of old pavement
Rim 121.50
Compacted backfill
Sand fill or flush
Proposed term
Rip rap
35'-24" R.C.P. @ 7.17%
93'-24" R.C.P. @ 0.30%
188'-24" R.C.P. @ 0.30%
165'-24" R.C.P. @ 0.30%
Type "A" Manhole 4' Diameter
125
120
115
110
105
As Built
INCIDENTAL DRAINAGE in connection with paving 13th St from E.L. Little Arkansas Bridge to W.L. Waco
CITY of WICHITA, KS.
R.W. LINN CITY ENGINEER
Date May 1972
Proj. No. DAND 572009
1/2



"As Built"

INCIDENTAL DRAINAGE in connection with paving 13th St. from E.L. Little Arkansas Bridge to W.L. Waco.

City of Wichita, Ks.
R.W. Linn City Engineer
Date May 1972 Proj. No. DAKO 572009

PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO. 48 7020 MADE IN U.S.A.

11 3 13-E new 1-Waco 18 2/2