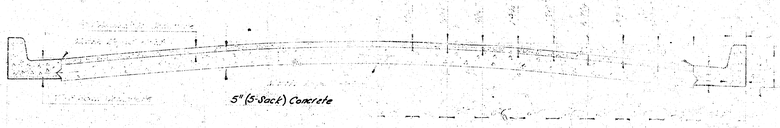
DOUGLAS AVENUE

FROM W.L. ROCKWOOD 3 RD. ADDITION TO E.L. RUTLAND ROAD

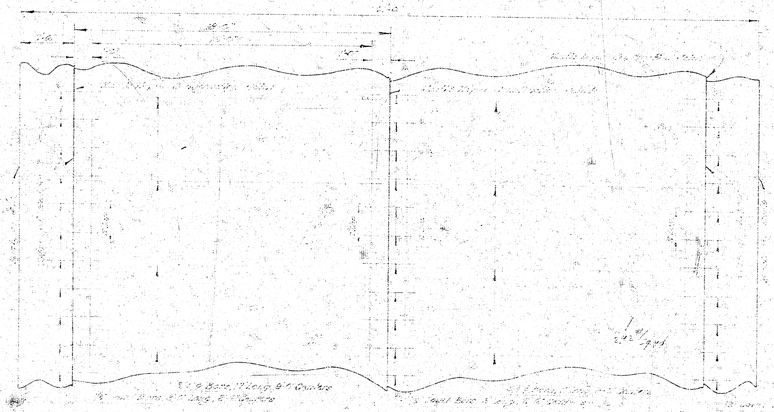
CITY OF WICHITA KANSAS B.E. SMITH CITY ENGINEER

PROJECT NO. C 14 - 58



TYPICAL SECTION

NOT TO SCALE



STEEL PATTERN

USE 3/4"Ø BARS EXCEPT WHERE NOTED

NOT TO SCALE

B.M. 1686.64 R.R. Spike on S.E. Side P. Pole on N. Side Douglas @ E.L. Eastborough.

N

Scale: 1" = 20'

40' V.C.
P.V.I. El. 1670.0
2+55

P.V.C. 2+35

P.V.T. 2+75

0+01.0

0+50

1+00

1+50

2+00

3+00

3+50

4+00

4+50

5+00

5+50(P)

Curb Transition From Rail Cb. To Full Cb.

Sta. 0+00 IRON on E. Douglas

REMOVE 30' of COMB. CURB & GUTTER

REMOVE 1-SECTION of COMB. CURB & GUTTER

24" R.C.P. to join

MATCH

DOUGLAS

AVENUE

Edge Exist. Asph. Surface

Edge Exist. Asph. Surface

-0.598%

0.4 Wk.

+0.237%

0.4 Wk.

252' Controlled Access

-0.669%

0.4 Wk.

+0.296%

0.4 Wk.

SHELTER BELT

SHELTER BELT

Install 15" R.C.P.

Double 5" & 7" Trees

Cluster of 7" Osage Hedge Trees

10" Cedar Hedge

Cluster of 3" & 4" Shrubs

Row of 54 Small Trees 40' to 35.5' (Rt)

Tel. P.

Tel. P.

Tel. P.

48" - 24" CMP

Rock & Conc. Rip-Rap

End Pipe

Center of Rock Channel

Sta. 0+01.0 IRON 50.4' (Rt) E

Cluster of 3" & 4" Shrubs

Four 24" R.C.P. Pipe Pipes 21.5' Skew

4 Tile Pipe

3" Pipe

2" Pipe

10" Tree

5" Tree

6" Tree

10" Tree

5" Tree

10" Shrubs

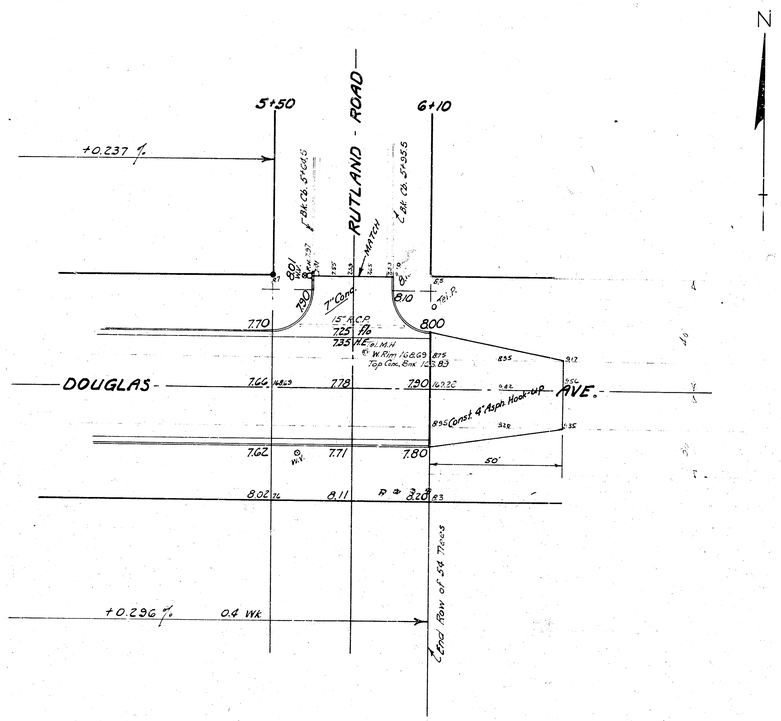
Cluster of 42" Trees

6" Tree

Sta. 2+55 P.V.I. El. 1667.75 40' V.C.

| | | |

B.M. 1639.02 R.R. Spike on N. Side Tel. Pole @ N.E. cor. Douglas & Rutland



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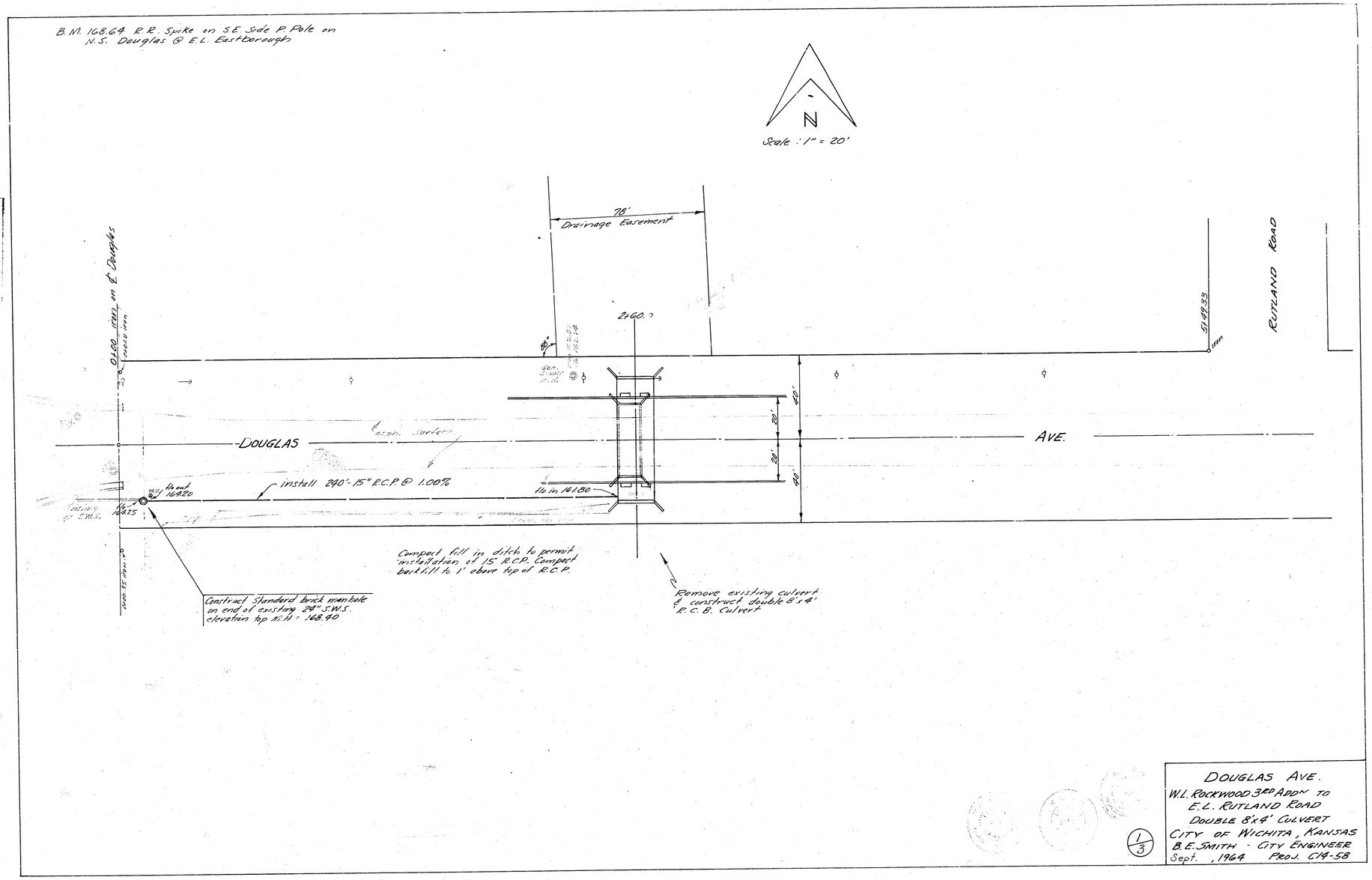
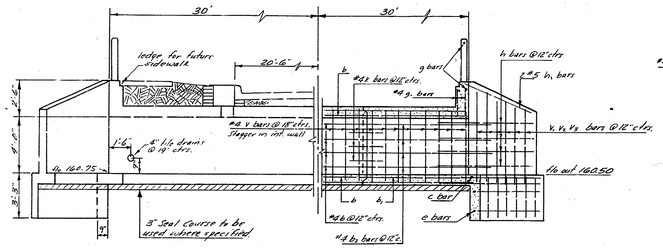
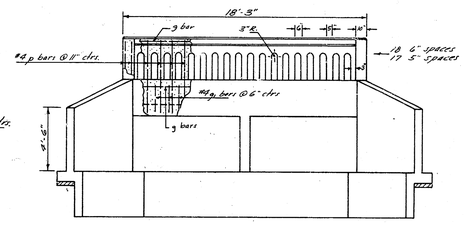
3/5


B.M. 168.64 R.R. Spike on S.E. Side P. Pole on N.S. Douglas @ E.L. Eastborough
N
Scale : 1" = 20'
78'
Drainage Easement
2+60.7
0+00 iron on ℄ Douglas
5+49.33
RUTLAND ROAD
DOUGLAS
AVE.
asph. surface
install 240'-15" R.C.P. @ 1.00%
flo in 161.80
flo out 164.20
flo 164.25
Compact fill in ditch to permit installation of 15" R.C.P. Compact backfill to 1' above top of R.C.P.
Remove existing culvert & construct double 8'x4' R.C.B. Culvert
Construct Standard brick manhole on end of existing 24" S.W.S. elevation top M.H. = 168.40
DOUGLAS AVE.
W.L. ROCKWOOD 3RD ADDN TO
E.L. RUTLAND ROAD
DOUBLE 8'x4' CULVERT
CITY OF WICHITA, KANSAS
B.E. SMITH - CITY ENGINEER
Sept. , 1964 PROJ. C14-58
1/3



ELEVATION & SECTION



END ELEVATION

Reinf. Steel Schedule

Bar	a	a_1	a_2	b	b_1	b_2	C	C_1	d	e	e_1	g	g_1	h	h_1	V	V_1	V_2	V_3	k	P
No.	144	142	144	108	32	16	2	12	28	4	8	6	72	16	8	126	8	3	8	78	82
Size	#5	#5	#5	#4	#4	#4	#4	#4	#4	#4	#4	#5	#4	#4	#5	#4	#4	#4	#4	#4	#4
Length	18'0"	18'5"	12'0"	20'7"	21'1"	11'8"	20'6"	9'0"	6'9"	20'8"	6'6"	18'8"	6'0"	5'6"	6'9"	5'3"	1'8"	6'6"	6'0"	3'7"	6'6"

BILL OF MATERIALS

	Item	Quantity	unit
lump sum items	Class A-AE Concrete	95.0	cu. yds.
	Reinforcing Steel	11,070	lbs.
	Concrete handrail	39.5	lin. ft.
	Hand excavation	9.0	cu. yds.
	Concrete culvert removed	1	each
	2'x 5' inlets	4	each
	Brick manhole	1	each
unit bid items	common excavation	150	cu. yds.
	compacted fill	200	cu. yds.
	Class A Concrete (seal course)	10.6	cu. yds.
	15" reinf. conc. pipe	240	lin. ft.

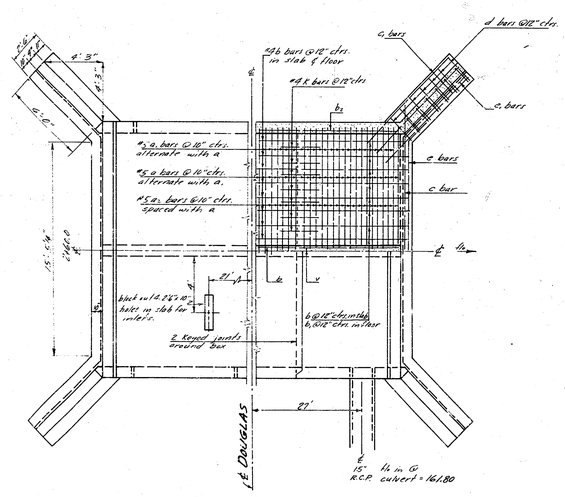
GENERAL NOTES:

Class A-AE concrete to be used in the structure. Class D concrete is to be used in the handrail & posts. Seal Course consisting of Class A concrete is to be constructed only where specified by the Engineer. No reinforcing steel shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury.

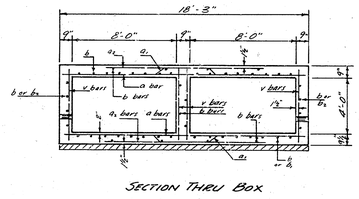
Bevel all exposed edges with a ¾" triangular molding. Coarse aggregate to be deposited behind each weep hole to occupy a space extending 15" in all directions fm. the weep hole. This is a no pay item incidental to the project.

Compact backfill to the top of the culvert. Backfill & excavation to extend 2' beyond sides of box & wingwalls. Compact fill in existing roadside ditch to permit installation of 15" R.C.P.

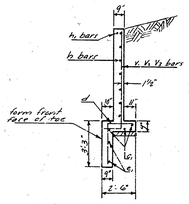
Fill washout in the channel on south side of the culvert with broken concrete (no steel) up to elevation 160.4. Filling of washout, removal of asph. mat. & rem. of broken concrete is to be considered as part of bid of culvert removed' in lump sum bid.



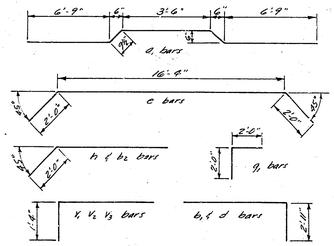
PLAN & SECTION



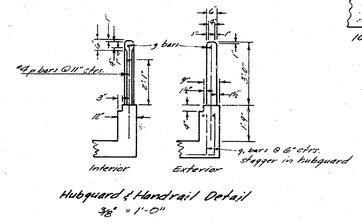
SECTION THRU BOX



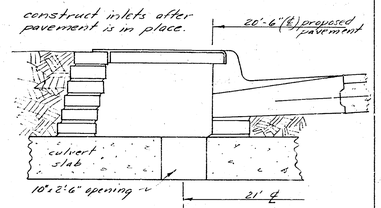
SECTION THRU WING



BAR BENDING DIAGRAMS



Hubguard & Handrail Detail
3/8" = 1'-0"



INLET DETAIL
no scale

CONCRETE BOX CULVERT
DOUBLE 8' x 4'
DOUGLAS AVE.
PROJ. C19-58 SHEET 2 OF 3