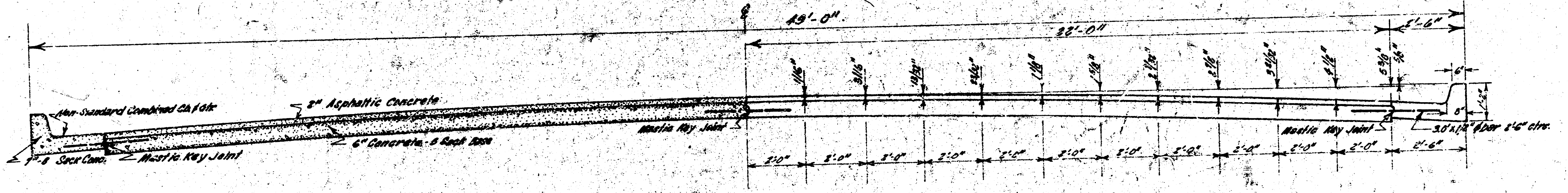
THIRTEENTH STPEET

E.L. ST. PAUL AVE. --- W.L. McLEAN BLVD.

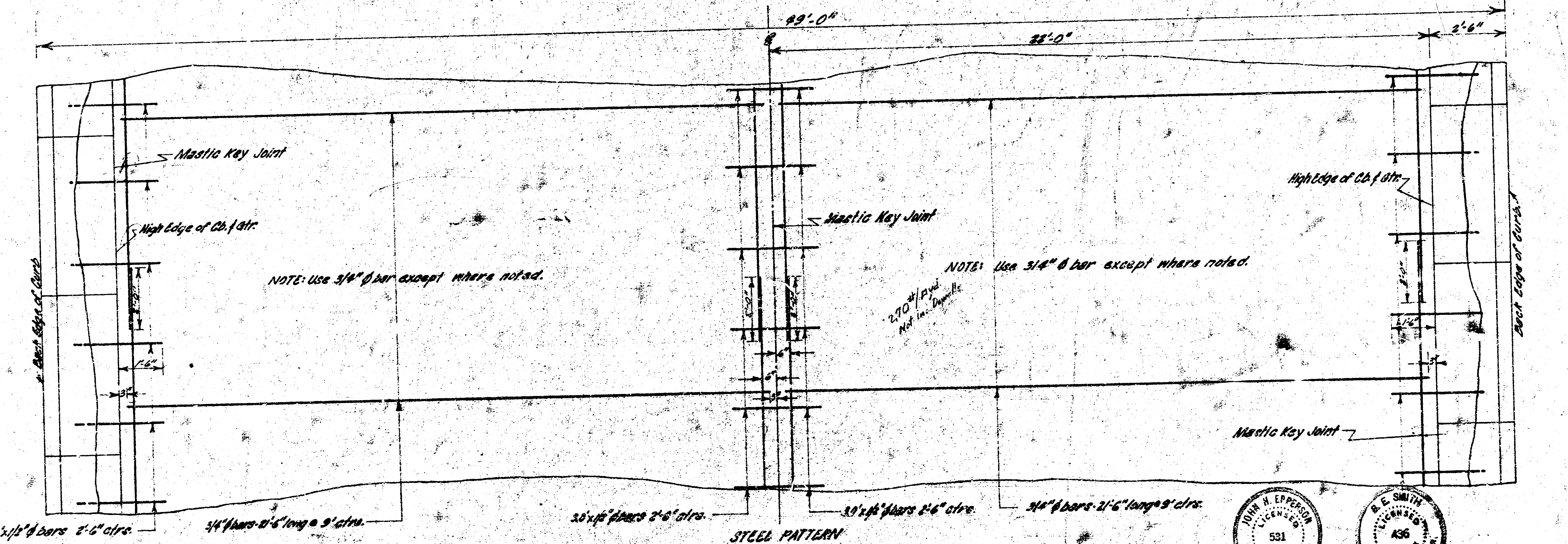
26'-2'-30' A.C. WIDEN TO 48' (8")

PROJ. NO. C.10-35



49'-0"
22'-0"
2'-6"
1/16"
3/16"
13/32"
23/32"
1 1/8"
1 5/8"
2 7/32"
2 7/16"
3 21/32"
4 1/2"
5 3/8"
5/8"
6"
1'-2"
8"
Non-Standard Combined Cb. & Gtr.
2" Asphaltic Concrete
6" Concrete - 6 Sack Base
9"-6 Sack Conc.
Mastic Key Joint
Mastic Key Joint
Mastic Key Joint
3.0'x1/2" ϕ bar 2'-6" ctrs.
2'-0"
2'-0"
2'-0"
2'-0"
2'-0"
2'-0"
2'-0"
2'-0"
2'-0"
2'-0"
2'-0"
2'-6"

TYPICAL SECTION
Scale: 1" = 2'-0"



49'-0"
22'-0"
2'-6"
Mastic Key Joint
High Edge of Cb. & Gtr.
Back Edge of Curb
NOTE: Use 3/4" ϕ bar except where noted.
1'-6"
3"
Mastic Key Joint
6"
3"
NOTE: Use 3/4" ϕ bar except where noted.
High Edge of Cb. & Gtr.
Back Edge of Curb
Mastic Key Joint
3.0'x1/2" ϕ bars 2'-6" ctrs.
3/4" ϕ bars-21'-6" long @ 9' ctrs.
2.0'x1/2" ϕ bars 2'-6" ctrs.
3.0'x1/2" ϕ bars 2'-6" ctrs.
3/4" ϕ bars-21'-6" long @ 9' ctrs.

270#/Pvd.
Not in. Dowells

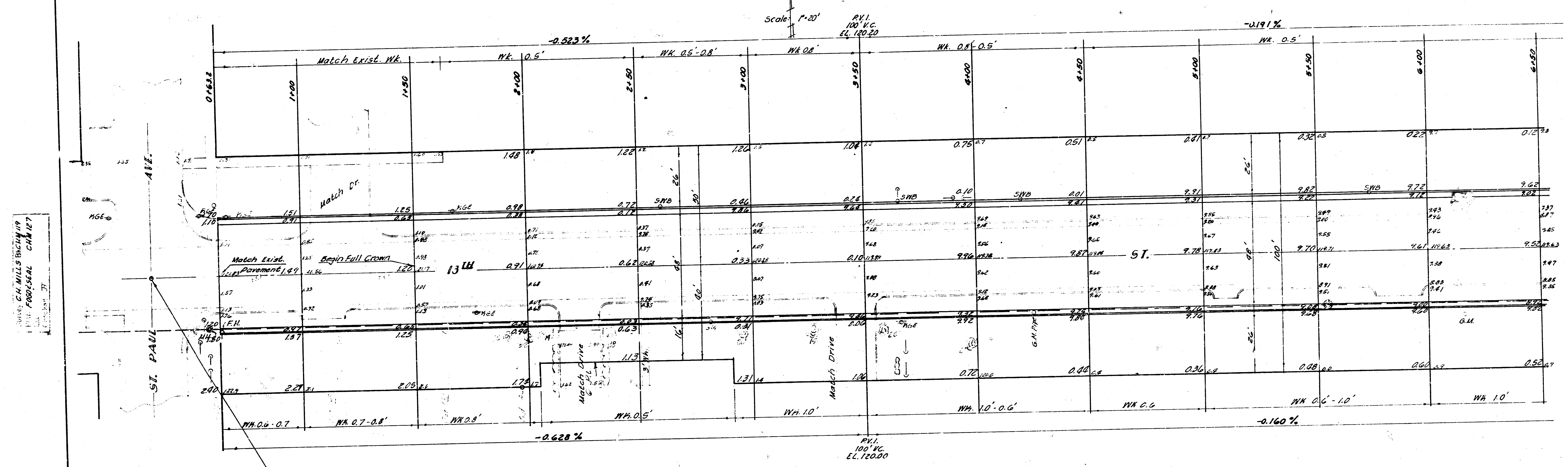
STEEL PATTERN
Scale: 1" = 2'-0"

JOHN H. EPPERSON 531

R. E. SMITH 436

1/7

B.M. 124.13 R.R. Spike W.S. of P.Pole N.E. Cor. St. Paul & 13th
B.M. 122.25 "□" E.S. Inter. □ N.E. Cor. St. Paul & 13th
B.M. 120.25 "□" on N.W. Cor of Lt. Post N.L. 13th Edwards
B.M. 118.339 Std. S.E. Cor. 13th & Meridian


Scale 1"=20'
P.V.I.
100' V.C.
EL. 120.20
-0.523%
-0.191%
0+63.2
1+00
1+50
2+00
2+50
3+00
3+50
4+00
4+50
5+00
5+50
6+00
6+50
Match Exist. Wk.
Wk. 0.5'
Wk. 0.5'-0.8'
Wk. 0.8'
Wk. 0.8'-0.5'
Wk. 0.5'
Match Cr.
Match Exist. Pavement
Begin Full Crown
13th
ST.
ST. PAUL
AVE.
F.H.
SWB
Match Drive
G.M.
Wk. 0.6-0.7
Wk. 0.7-0.8'
Wk. 0.8'
Wk. 0.5'
Wk. 1.0'
Wk. 1.0'-0.6'
Wk. 0.6
Wk. 0.6'-1.0'
Wk. 1.0'
-0.628%
-0.160%
P.V.I.
100' V.C.
EL. 120.00

TIES TO IRON ℄ ST. PAUL & 13TH:
1. 50.00' N. to Nail ℄ St. Paul Pav.
2. 50.00 N.E. to * on frt of Wk.
3. 50.00 N.W. to * on frt of Wk.

EARTHWORK QUANTITIES

	PROPERTY	CITY	IMPROVE.
EXCAVATION --	3194.5 C.Y.	519.1 C.Y.	2233.7 C.Y.
+10%	319.5 C.Y.	51.9 C.Y.	223.3 C.Y.
TOTAL	3514.0 C.Y.	571.0 C.Y.	2457.0 C.Y.

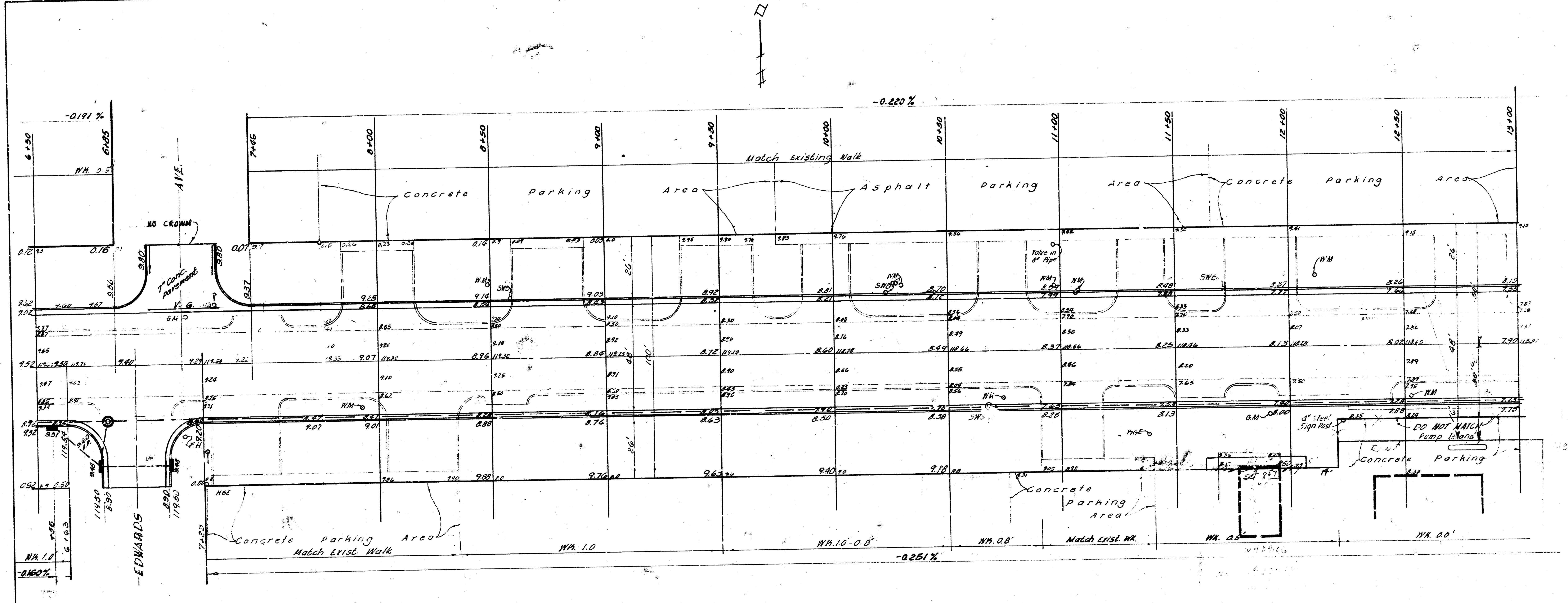
NOTE: FIELD ENGINEER TO DETERMINE AMOUNT OF DRIVES TO BE REMOVED AND REPLACED.

JOHN A. EPPERSON 531

2/11

THIRTEENTH ST.

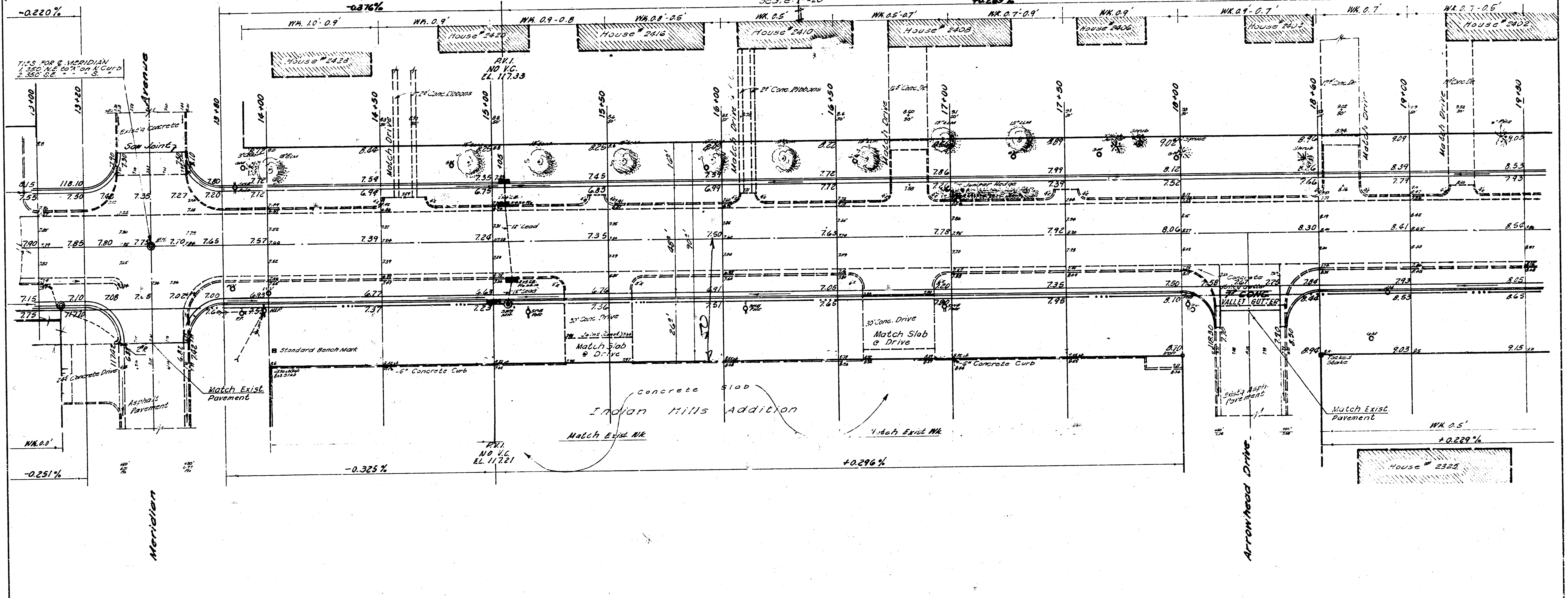
E.L. ST. PAUL - W.L. McLEAN BLVD.
26-2-30 A.C. WIDEN TO 48' (8")
CITY OF WICHITA, KANS.
D. E. SMITH CITY ENGINEER
DATE: [illegible] PROJ. NO. C 10-35


-0.191 %
6+50
6+85
WK. 0.5
AVE.
NO CROWN
7" Conc. pavement
V. G.
G.M.
9.80
9.56
9.37
0.12
0.16
0.07
9.62
9.02
9.52
9.40
9.29
F.H.
9.20
119.50
8.99
8.90
119.50
EDWARDS
7+56
6+63
WK. 1.0
-0.160%
7+45
7+23
8+00
8+50
9+00
9+50
10+00
10+50
11+00
11+50
12+00
12+50
13+00
-0.220 %
Match Existing Walk
Concrete Parking Area
Asphalt Parking Area
Concrete Parking Area
W.M.
SWB
WM
9.25
8.68
9.14
8.54
9.03
9.07
9.01
8.88
8.76
8.96
8.84
8.49
8.37
8.25
8.13
8.02
7.90
8.70
8.59
7.99
8.48
7.88
8.37
7.77
8.26
7.66
8.15
7.55
8.38
8.25
8.13
8.00
7.88
7.75
9.88
9.76
9.63
9.40
9.18
26'
48'
100'
50'
30'
Valve in 8" Pipe
MGE
G.M.
4" Steel Sign Post
DO NOT MATCH Pump Island
Concrete Parking
Concrete Parking Area
Match Exist. Walk
WK. 1.0
WK. 1.0-0.8'
WK. 0.8'
Match Exist. WK.
WK. 0.5'
WK. 0.0'
-0.251 %
14'
5'
Set 8.57

Thirteenth Street
St. Paul -- McLean

3
11

B.M. 118.339 Standard S.E. Cor. Meridian & 13th.
" 119.01 "x" on East curb St. Clair, 50' N. of Sec. Line 13th.
" 119.95 "x" on West curb Clarence, 50' N. of Sec. Line 13th.
B.M. 124.84 "x" on South curb Big Ark. River Bridge 12.0' East of S.W. Cor.

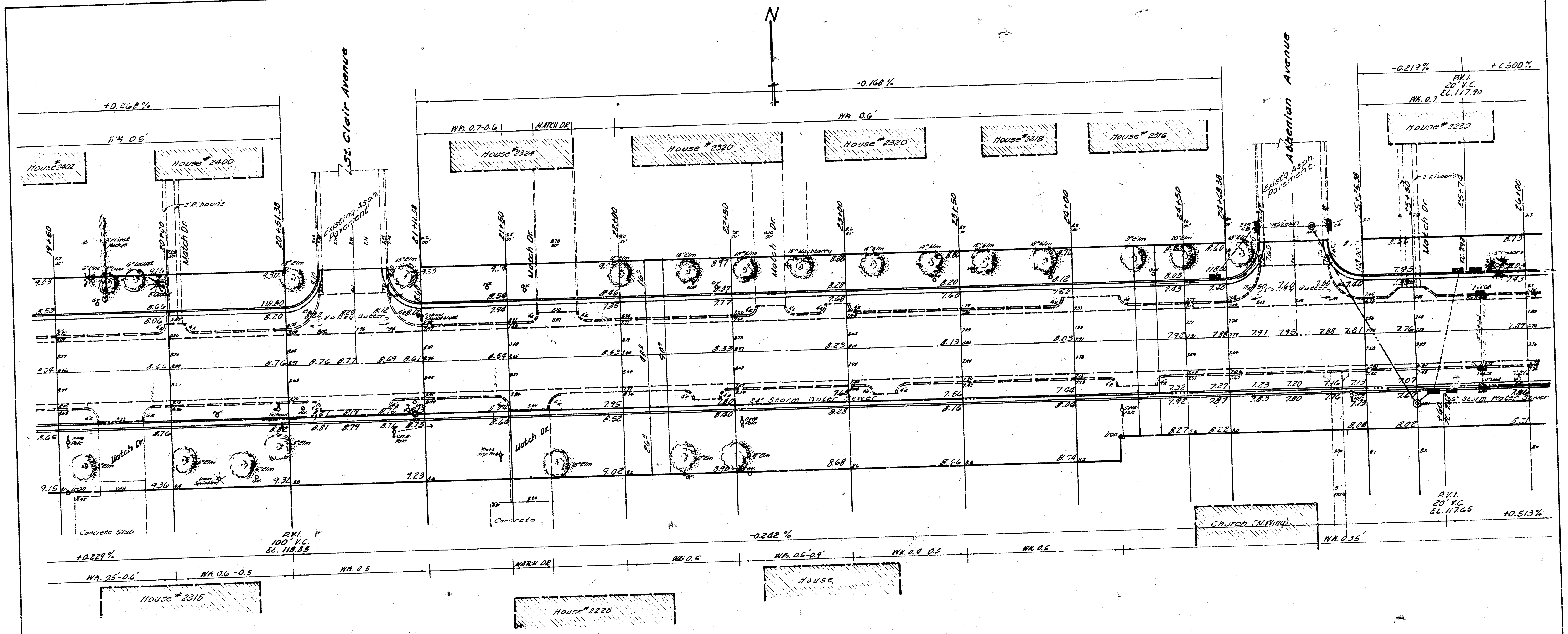

N
Scale: 1"=20'
-0.220%
-0.376%
+0.269%
WK. 1.0'-0.9'
WK. 0.9'
WK. 0.9-0.8
WK. 0.8'-0.5'
WK. 0.5'
WK. 0.5'-0.7'
WK. 0.7'-0.9'
WK. 0.9'
WK. 0.9'-0.7'
WK. 0.7'
WK. 0.7'-0.5'
House # 2428
House # 2420
House # 2416
House # 2410
House # 2408
House # 2406
House # 2402
House # 2325
P.V.I.
NO V.C.
EL. 117.33
EL. 117.21
TIES FOR ℄ MERIDIAN
1. 35.0' N.E. to "x" on N. Curb
2. 35.0' S.E. " " " S. "
Avenue
Exist'g Concrete
Saw Joint
13+00
13+20
13+80
14+00
14+50
15+00
15+50
16+00
16+50
17+00
17+50
18+00
18+60
19+00
19+50
118.10
117.10
117.42
118.30
2' Conc. Ribbons
Match Drive
Match Slab & Drive
30' Conc. Drive
Standard Bench Mark
6" Concrete Curb
Concrete Slab
Indian Hills Addition
Match Exist. Wk.
Match Exist. Pavement
24' Concrete Drive
Asphalt Pavement
Concrete Valley Gutter
7" CONC. VALLEY GUTTER
Exist'g Asph. Pavement
Tacked Stake
WK. 0.0'
-0.251%
-0.325%
+0.296%
WK. 0.5'
+0.229%
Meridian
Arrowhead Drive

Checked

NOTE: INTERSECTION @ MERIDIAN TO BE CONSTRUCTED & OPEN TO NORTH-SOUTH TRAFFIC BEFORE CLOSING REMAINDER OF 13TH ST. TO EAST-WEST TRAFFIC. INTERSECTION OF 13TH ST. & McLEAN BLVD. (PROJ. NO. C19-15) TO BE CONSTR. SIMULTANEOUSLY WITH MERIDIAN INTERSECTION.

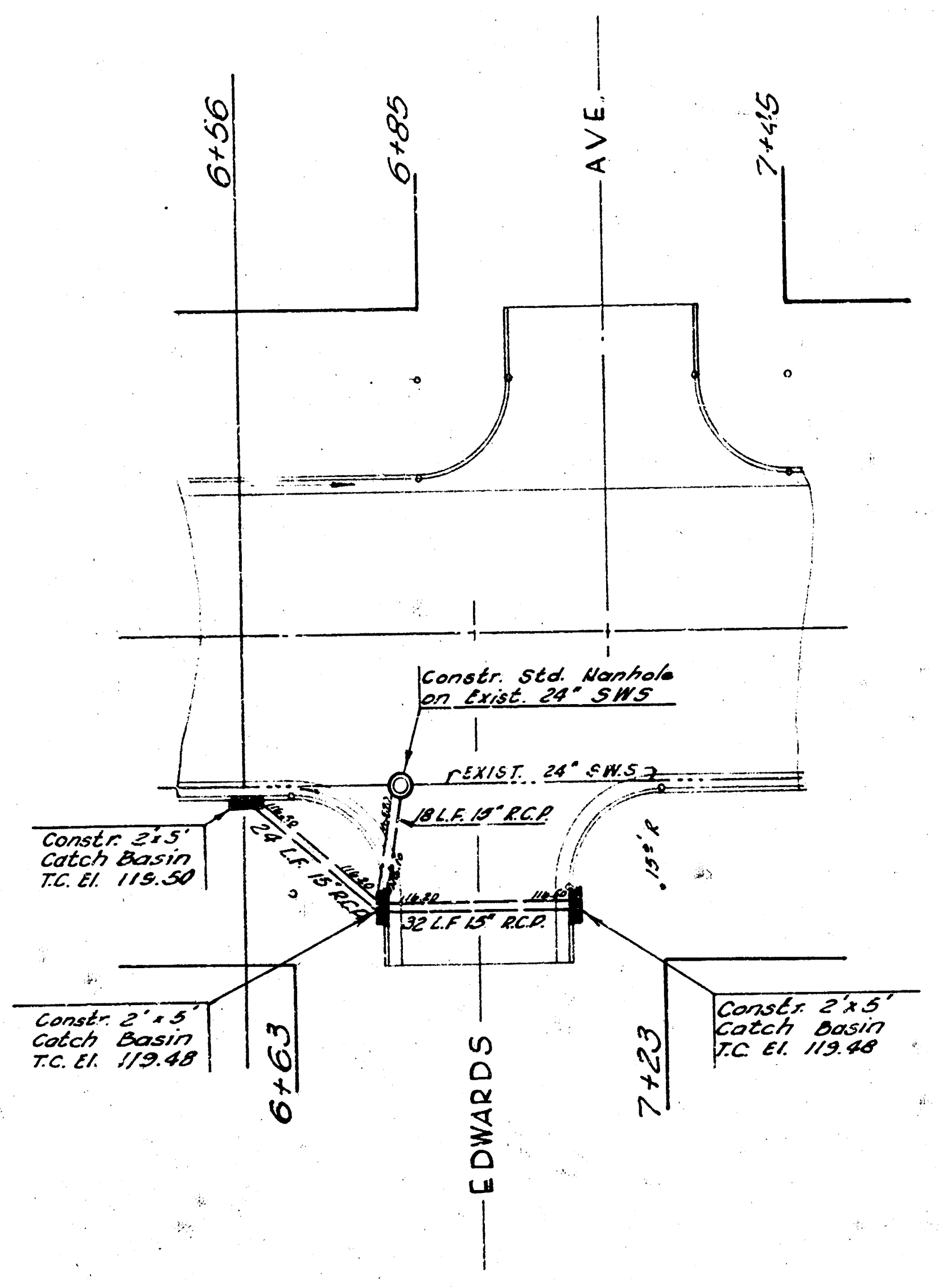
Thirteenth Street
St. Paul -- McLean

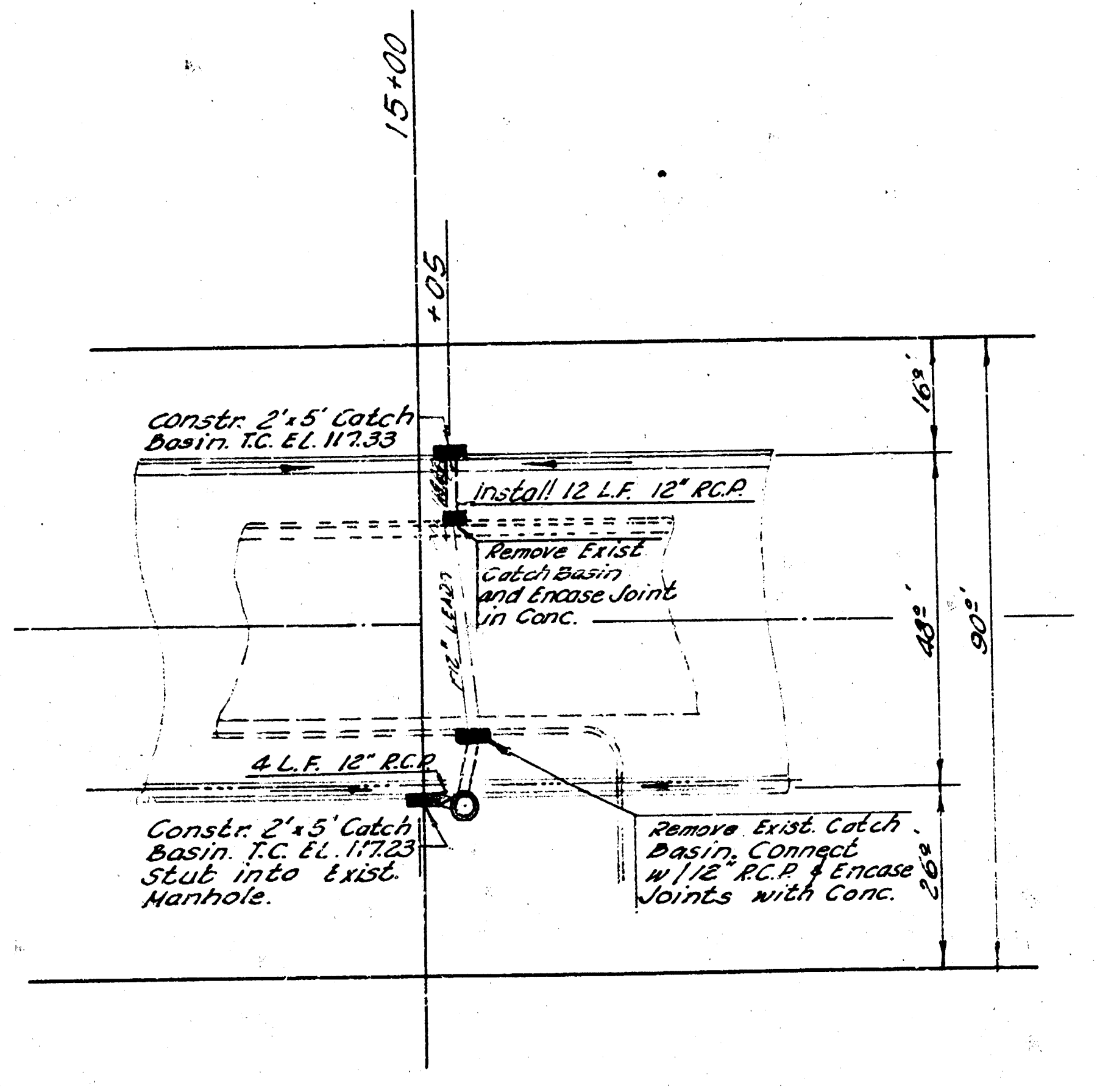
4
11

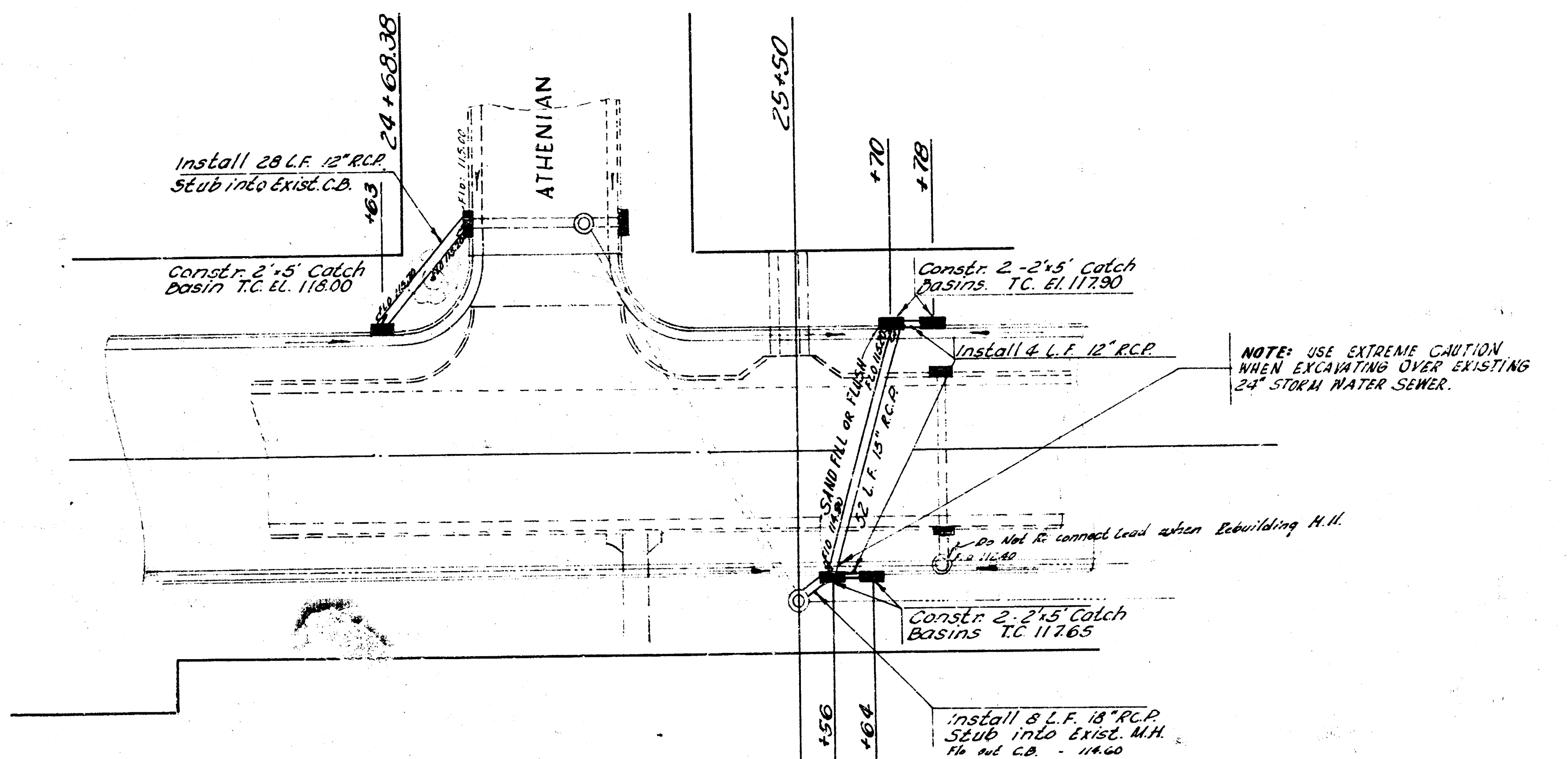

N
+0.268 %
W.K. 0.5'
House # 2402
House # 2400
2' Ribbons
St. Clair Avenue
Existing Asph. Pavement
Match Dr.
19+50
20+00
20+51.38
21+11.38
21+50
22+00
22+50
23+00
23+50
24+00
24+50
24+68.38
25+26.38
25+50
25+74
26+00
-0.168 %
W.K. 0.7-0.6
MATCH DR.
W.K. 0.6'
House # 2324
House # 2320
House # 2320
House # 2318
House # 2316
Athenian Avenue
Exist'g Asph. Pavement
-0.219 %
+0.300 %
P.V.I.
20' V.C.
EL. 117.90
W.K. 0.7
House # 2230
2' Ribbons
3' Privet Hedge
6" Pine
6" Locust
3-4" Cedars
18" Elm
15" Elm
15" Mulberry
12" Elm
3" Elm
20" Elm
118.80
118.00
24" Storm Water Sewer
36" Storm Water Sewer
S.W.B. Pole
Lawn Sprinkler
House Sign Post
iron
Concrete Slab
Concrete
5' walk
P.V.I.
100' V.C.
EL. 118.88
+0.229 %
-0.242 %
W.K. 0.5'-0.6'
W.K. 0.6-0.5
W.K. 0.5
MATCH DR.
W.K. 0.5
W.K. 0.5-0.4'
W.K. 0.4-0.5
W.K. 0.5
W.K. 0.35'
Church (N. Wing)
P.V.I.
20' V.C.
EL. 117.65
+0.513 %
House # 2315
House # 2225
House

Thirteenth Street
St. Paul---M[illegible]

5
11

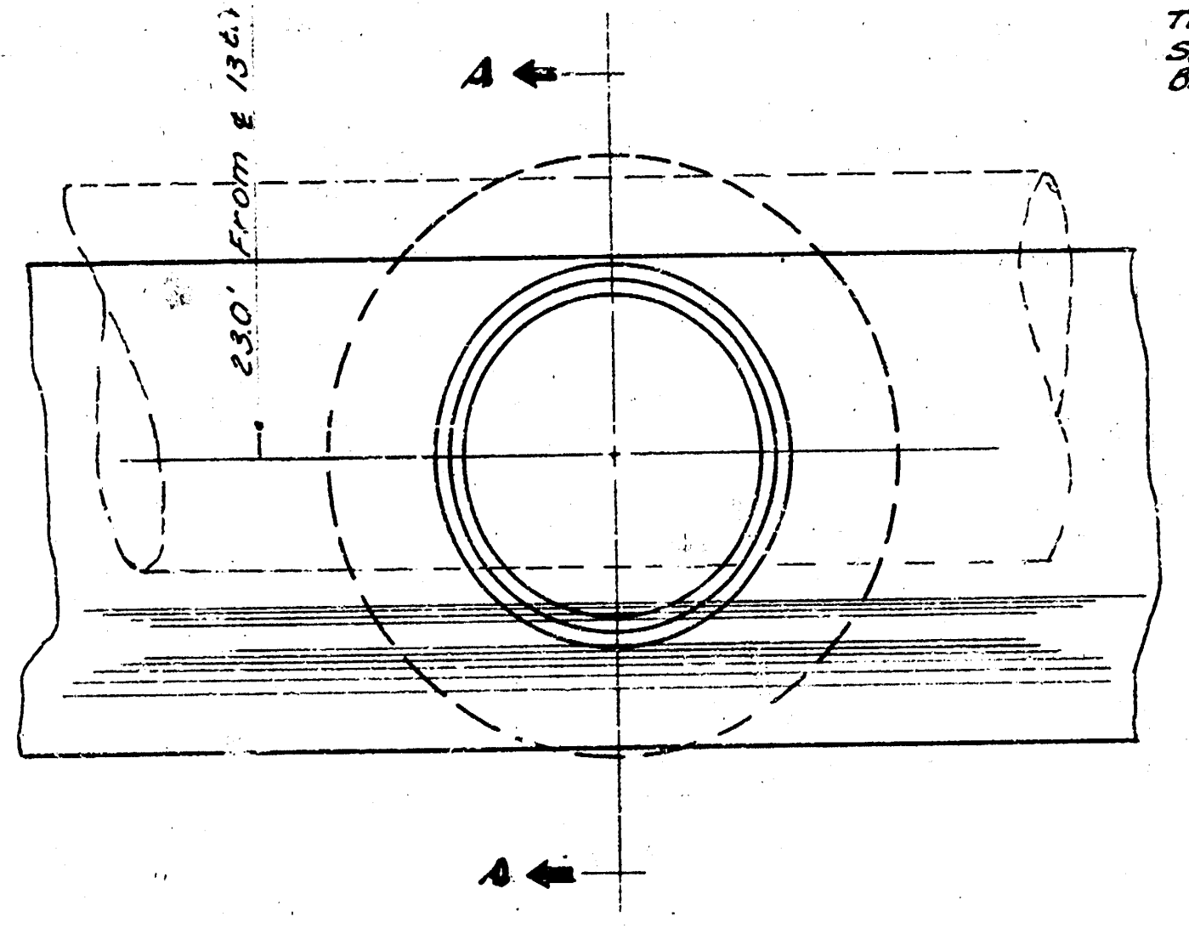

6+56
6+85
AVE.
7+45
Constr. Std. Manhole on Exist. 24" SWS
EXIST. 24" SW.S.
18 L.F. 15" R.C.P.
24 L.F. 15" R.C.P.
32 L.F. 15" R.C.P.
15' R
Constr. 2'x5' Catch Basin T.C. El. 119.50
Constr. 2'x5' Catch Basin T.C. El. 119.48
Constr. 2'x5' Catch Basin T.C. El. 119.48
6+63
7+23
EDWARDS


15+00
+05
Constr. 2'x5' Catch Basin. T.C. EL. 117.33
Install 12 L.F. 12" R.C.P.
Remove Exist Catch Basin and Encase Joint in Conc.
12" LEAD
4 L.F. 12" R.C.P.
Constr. 2'x5' Catch Basin. T.C. EL. 117.23 Stub into Exist. Manhole.
Remove Exist. Catch Basin. Connect w/12" R.C.P. & Encase Joints with Conc.
16'
48'
26'
90'

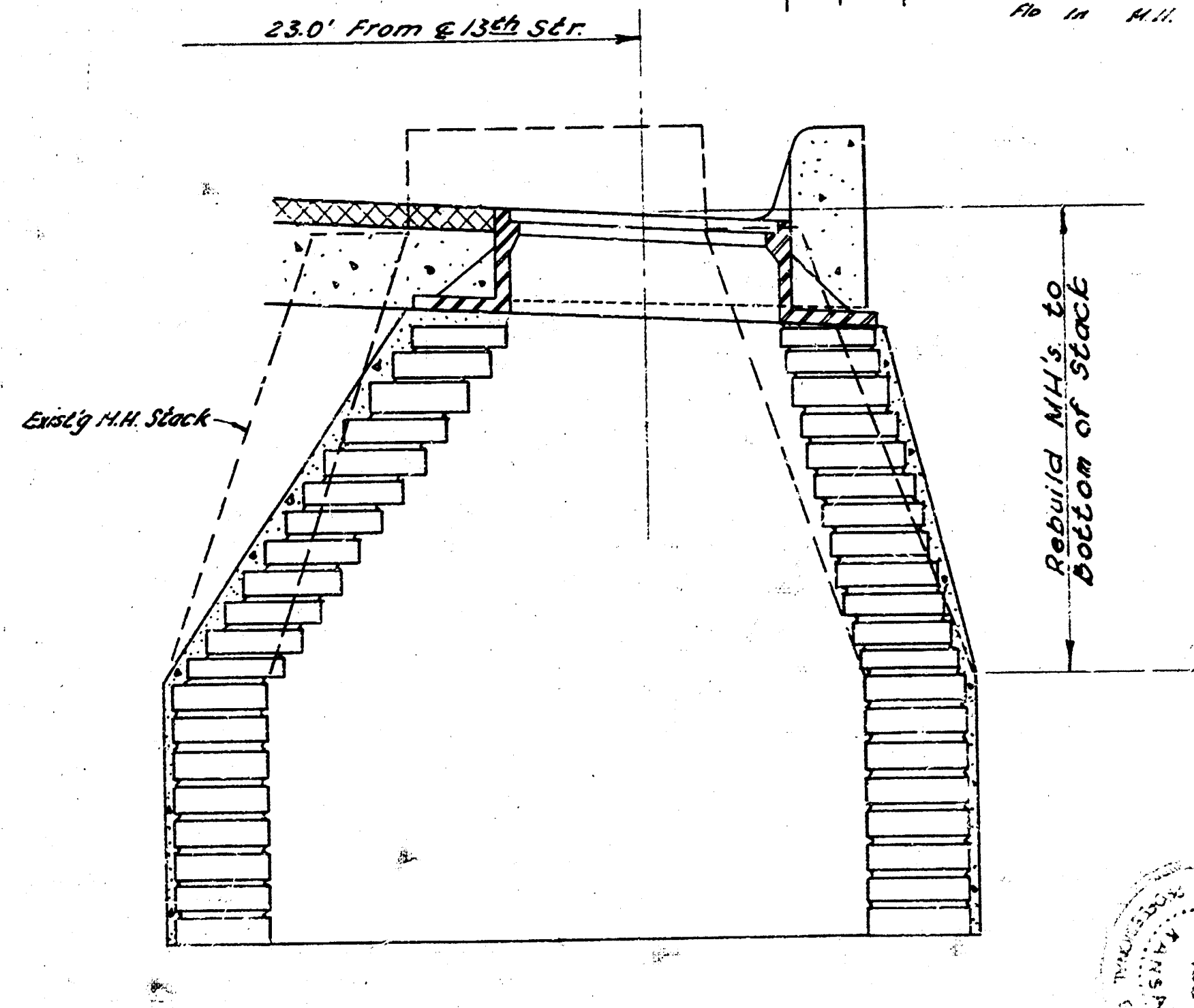

24+68.38
+63
ATHENIAN
Install 28 L.F. 12" R.C.P. Stub into Exist. C.B.
Constr. 2'x5' Catch Basin T.C. EL. 118.00
25+50
+70
+78
Constr. 2-2'x5' Catch Basins. T.C. El. 117.90
Install 4 L.F. 12" R.C.P.
SAND FILL OR FLUSH
32 L.F. 15" R.C.P.
Do Not Re connect Lead when Rebuilding M.H.
Constr. 2-2'x5' Catch Basins T.C. 117.65
+56
+64
Install 8 L.F. 18" R.C.P. Stub into Exist. M.H.
Flo out C.B. - 114.60
Flo in M.H. 114.50

NOTE: USE EXTREME CAUTION WHEN EXCAVATING OVER EXISTING 24" STORM WATER SEWER.

NOTE: REBUILD MANHOLES ON 24" SEWER AS SHOWN IN SECTION A-A. APPROX. STATION OF MH'S TO BE REBUILT: STA 5+54; STA 10+68; STA. 13+10; STA 21+08 & STA. 25+80. MANHOLE AT STA 25+06 TO BE REBUILT OUTSIDE OF CURB IF NECESSARY.


A
23.0' From ℄ 13th
A

MANHOLE RING LOCATION DETAIL

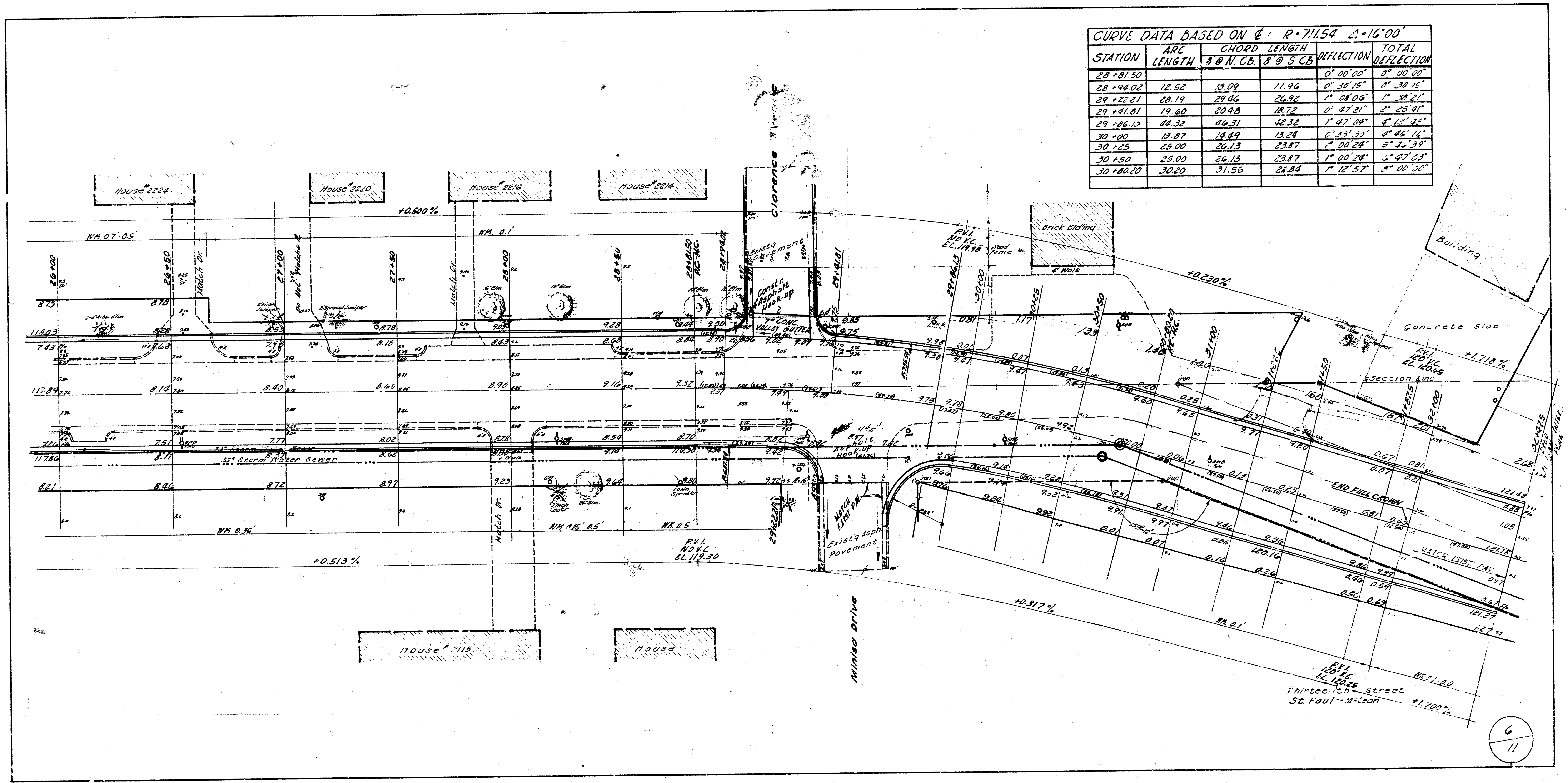

23.0' From ℄ 13th Str.
Exist'g M.H. Stack
Rebuild MH's to Bottom of Stack

SECTION A-A

INCIDENTAL DRAINAGE
13TH ST.
E.L. ST PAUL - W.L. McLEAN
CITY OF WICHITA, KS.
B.E. SMITH CITY ENGINEER
DATE: AUG. 60 PROJ. NO. C10-35

CURVE DATA BASED ON ℄: R=711.54 Δ=16°00'

STATION	ARC LENGTH	CHORD LENGTH		DEFLECTION	TOTAL DEFLECTION
		8' @ N. CB.	8' @ S CB		
28 +81.50				0° 00' 00"	0° 00' 00"
28 +94.02	12.52	13.09	11.96	0° 30' 15"	0° 30' 15"
29 +22.21	28.19	29.46	26.92	1° 08' 06"	1° 38' 21"
29 +41.81	19.60	20.48	18.72	0° 47' 21"	2° 25' 41"
29 +86.13	44.32	46.31	42.32	1° 47' 04"	4° 12' 45"
30 +00	13.87	14.49	13.24	0° 33' 30"	4° 46' 16"
30 +25	25.00	26.13	23.87	1° 00' 24"	5° 46' 39"
30 +50	25.00	26.13	23.87	1° 00' 24"	6° 47' 03"
30 +80.20	30.20	31.55	28.84	1° 12' 57"	8° 00' 00"


House # 2224
House # 2220
House # 2216
House # 2214
Clarence
Brick Bld'ing
Building
4' Walk
Wood Fence
Concrete Slab
Section Line
Exist'g Pavement
Constr. Asphalt Hook-up
7" CONC. VALLEY GUTTER
P.V.I. NO V.C. EL. 119.98
P.V.I. NO V.C. EL. 119.30
P.V.I. 120' V.C. EL. 120.25
+0.500%
+0.513%
+0.230%
+0.317%
+1.718%
+1.700%
28+81.50 P.C.-H.C.
28+94.02
29+41.81
29+86.13
30+00
30+25
30+50
30+80.20 P.T.-H.C.
Storm Water Sewer
END FULL CROWN
MATCH EXIST. PAV.
House # 2115
House
Minter Drive
Thirteenth Street
St. Paul--McLean

6
11