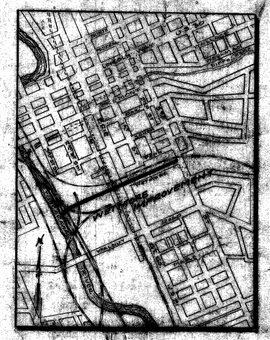
WETMORE CREEK IMPROVEMENT

MASSILLON OHIO



Two water lines on Erie St.So.: 6" gravity line between curb and walk on West side. 6" C.I. approx. 3ft east of west curb. data from O.W.S. Co.

Note: Build Syphon on 24" San Trunk Sewer see details on sheets # 4

Storm Sewer Detail See Sheet #2

Replace 4" Conc. Walk Item #26 and new Cont. Curb Item 10-D

Headwall 1'9" Wide same elev. as side Walls see profile

SEE SHEET #1

Replace 4" Conc. Walk Item #26 and new Cont. Curb Item #10-D

Connect 12" to Conc. Sewer

Sta. Sew. 1+0

Headwall Connect 12" V.S.P. to Conc. Sewer

Conc. 12 Apron

C.B.

Beginning of Guard rail 11+70 Connect 12" V.S.P. to Concrete Sewer

Curb Line 3 Car Tracks 2 Car Tracks 1 Brick Pavement 18'-0" Asphalt Pavement 4'-0" Walk Curb Line 2 Walk

Shade Wall Shade Wall

ERIE ST. SO 80' WIDE

O.L. 40

Fill, behind wall, use excess from Covered Section, paid under Item 10-D both for north and south sides.

No Guard rail on North side

Lot # 9379 Lot # 9378 Lot # 9380

℄ STREET LINE

New Conc Wall

Stone Wall

WETMORE CREEK

℄ New Conc Wall

℄ Present Bank (North) of Welmore Creek

℄ Present Bank (South) of Welmore Creek New conc. to meet existing Stone walls

Traverse Line 3

WETMORE AVE SE 60.0 WIDE

2" Gas Line 3

2" Gas Line

4" STREET LINE

Fence

OL 42 OL 41 OL 45

Bottom paved with stone under Bridge

Stone wall ok.

Stone Wall

Stone Wall on south side from West of Bell Line to 3rd St SE o.k. to use as is, will have to be pointed up in places as direct by City agent, also spots might have to be relaid to be paid under Item #11 B - Concrete top as well to bring it to grade See detail on Sheet #5

Bell Line

30' foot gap in guard rail

Lot # 9379 Stone Wall Sm. Box Stone Wall

4" Conc Apron paid under Item #26

Special I.C.B. Item 10-D

24" V.S.P. O.S. Item 10-D

Special C.B. Item 10-D

8" V.S.P.O.S. Item 10-D

New curb (conc) from RR to Existing C.B. remove old plank walk, re build with conc slab sloping ½" per foot towards street, build new 6"&4" walk from culvert to Welmore, Build steel hand railing, See detail sheet #5

2 Conduits one 4" one 6" under pavement walk

For details of 3 special C.B. see Sheet #5 Bid under Item 1-C

15" V.S.P.O.S Item 1-C

Special C.B. #2 Item 12-C Not to scale

Special C.B. #1 Item 12-C Not to scale

Gutter 2.2%SE

3RD ST. SE 60' Brick Pavement

End of Guard rail at side walk. on 3rd Street SE.

Pavement replacement Item #25, see sheet #6

N

15'-0"

NORTH SIDE SOUTH SIDE

Ground Elev. 12"

No Coping No Coping 12"

Slope to read ½" per ft.

Guard Rail see detail on Sheet # 5 Item #22

See X Sections Fill - paid under Item 10-D

See X-Sections Fill paid under Item 10-D

⅝" ϕ @ 12" ctrs.

¾" ϕ @ 10" ctrs.

Symmetrical on each side

5'-0" at bottom

Height of walls variable depending on ground Elev. See Elev. on X-Sections

All longitudinal bars ⅝" ϕ spaced as shown

¾" ϕ @ 10" ctrs.

⅝" ϕ @ 12" ctrs.

2½" Paving Brick Item 2-D

¾" ϕ @ 6" ctrs all

Wall thickness at bottom depends on height.

Conc. Item # 10-D Class No 1

TYPICAL OPEN SECTION

Scale 1"= 3.5'

Detail of expansion joint on sheet #5

Note: Contractor has to make arrangements for disposal of excess excavation.

14'-0"

⅝" ϕ @ 12" ctrs. ¾" ϕ 12" ctrs. alt with str. bars

⅝" ϕ @ 12" ctrs. All bent bars ¾" ϕ 12" ctrs. all with All long'l bars to be ⅝" ϕ spaced as shown

⅝" ϕ @ 12" ctrs. ¾" ϕ @ 10" ctrs.

Symmetrical around ℄

12'-0"

⅝" ϕ @ 10" ctrs.

2½" Paving Brick Item 2-D

⅝" ϕ @ 12" ctrs. ¾" ϕ @ 6" ctrs all.

⅝" ϕ @ 12" ctrs

13" 9'-10⅝" 7'-2½" 1'-0" 7'-6" 1'-6"

TYPICAL COVERED SECTION

Scale 1"= 3.5'

Detail of Expansion Joint on Sheet #5

503.125 cu. ft. per lin. foot

18.63 cu. yds

Concrete: paid under Item # 10-D, shall include, excavation, sheathing shoring, forms, reinforcing, cement, sand, gravel, backfilling, puddling and tamping where needed, in bed, sewer to be complete in place. 2½" Brick invert paid under Item # 2-D. Class No 1 Concrete.

15'-0"

⅝" ϕ @ 12" ctrs. 1" ϕ @ 10" ctrs. alt with str. bars.

1" ϕ @ 10" ctrs. all with bent bars.

⅝" ϕ @ 10" ctrs.

1" ϕ @ 10" ctrs.

Symmetrical on each Side

12'-0"

All longitudinal bars to ⅝" ϕ spaced as shown

1" ϕ @ 10" ctrs. ¾" ϕ @ 10" ctrs

1" ϕ @ 6" ctrs all.

2½" Paving Brick Item 2-D

⅝" ϕ @ 10" ctrs.

1'-6" 7'-2½" 10'-10½" 2'-0"

SPECIAL SECTION UNDER RAILROADS

Scale 1"= 3.5'

No Expansion joints allowed in this section

Note: Conc. walls on each side of 54" Brick Sewers from MH @ 11+15 to curb Line 11+40

See Sheet #1

El. 93.0 Elev. of side walls and head wall

Top of Conc. Wall see X-Sections

El. 95.0

Grade of Roadway

Existing Headwall, remove and build new Headwall

Face of new headwall 11+38 (3 ames old)

Conc. Apron remove

Existing 54" 2 Ring Brick Sewer Remove

Sta. Sew. to be 11+40

Break in Grade El. 79.42

℄ Flow line

CONC. BOX CULVERT @ 0.44% Grade

24" San Trunk Sewer will have to build siphon See Sheet # 4

Siphon to be built see page #4

El. 98.0 Top of Conc. Wall see X-Sections

℄ Grade of Roadway

0.6 C.I.P. North

0.8 V.S.P. North

1.8 C.I.P. South

Present Bottom of Creek

Grade of Bottom 1.58% Grade

0.8 V.S.P. South

2.4 V.S.P. So

2½" Brick Pavers.

Use gravel refill Item #17

Steel Girders (Sou. Ab. Side 100.72 North Side 100.94

Top Stone Abut.

Pipe railing Item # 23

108.7 Gutter El. at ℄ of Creek

Top of Girder 107.0

Bottom of Girder 105.4

Grade of Roadway

El. 97.42

Payed Under roadway and Railroad Tracks.

Stone Bottom

96.60 97.55

22 23

10 11 12 13 14 15 16 17 18 19 20 21

88.59 89.16 89.76 91.32 89.96 90.46 92.06 92.85 93.64 94.63 95.22 96.01

100 95 90 85 80

CITY OF MASSILLON, OHIO

WETMORE CREEK IMPROVEMENT

FROM TUSCARAWAS RIVER TO 3RD ST. SE.

Approved C.E. Rice City Engineer

Dept. of Public Service Engineering Division

Dr. by G.C.W. & T.R.

Scale 1"=50' Hor. 1"=5' Ver.

Sept. 28th 1936

2/12

File No. SE 3381 / Acc No. 11415

6" Water Main 5ft West of East curb of 1st St. SW. Data from O.W.S. Co.
3" " " on East side of 1st St. SW. " " "

Note: This building has to be underpinned to protect the walls etc., the concrete floor can be removed and replaced with new 6" conc. floor; same item as 6" concrete sidewalks. Limits of new conc. floor will be decided by City Eng. or agent. Contractor will be held responsible for any damage done to walls, roof or appurtenance of building.

TUSCARAWAS RIVER

O.L. 28 W. & L.E. RR.

O.L. 29 W. & L.E. RR.

O.L. 30 P.Ft.W. & C. RR.

O.L. 31 MASSILLON ALUMINUM Co.

O.L. 32 W. & L.E. RR.

O.L. 36 P.Ft.W. & C. RR.

Shed

Brick Bldg.

Frame Garage

Brick & Frame

Main Building Brick & Conc.

Old Power House Brick

Brick Bldg.

Hedge

Brick Wall

Penn RR Overhead Bridge

Abandoned Spur

Curb Line Station

Headwall Conc Apron See detail on Sheet #5

Travel Line

Conc. Curb & Gutter

Tusc. Trunk Sewer 48" @ 0.2% Grade

Penn RR Main Line

Penn RR Spur

Penn RR Overhead

Abandoned Spur

Existing 12"-15in Sewr.

Existing 60"-54in Sewr.

Existing 54"-51in Sewr.

Existing 12"-15in Sewr.

Existing 8in V.S.P.

Existing 6in V.S.P.

Existing 4in V.S.P.

Existing 6in C.I.P.

Existing 8in C.I.P.

Existing 4in C.I.P.

Existing 6in Water Main

Existing 8in Water Main

Existing 4in Water Main

Existing 4in Gas Main

Existing 6in Gas Main

Existing 8in Gas Main

Existing 12in Gas Main

Existing 16in Gas Main

Existing 20in Gas Main

Existing 24in Gas Main

Existing 30in Gas Main

Existing 36in Gas Main

Existing 42in Gas Main

Existing 48in Gas Main

Existing 54in Gas Main

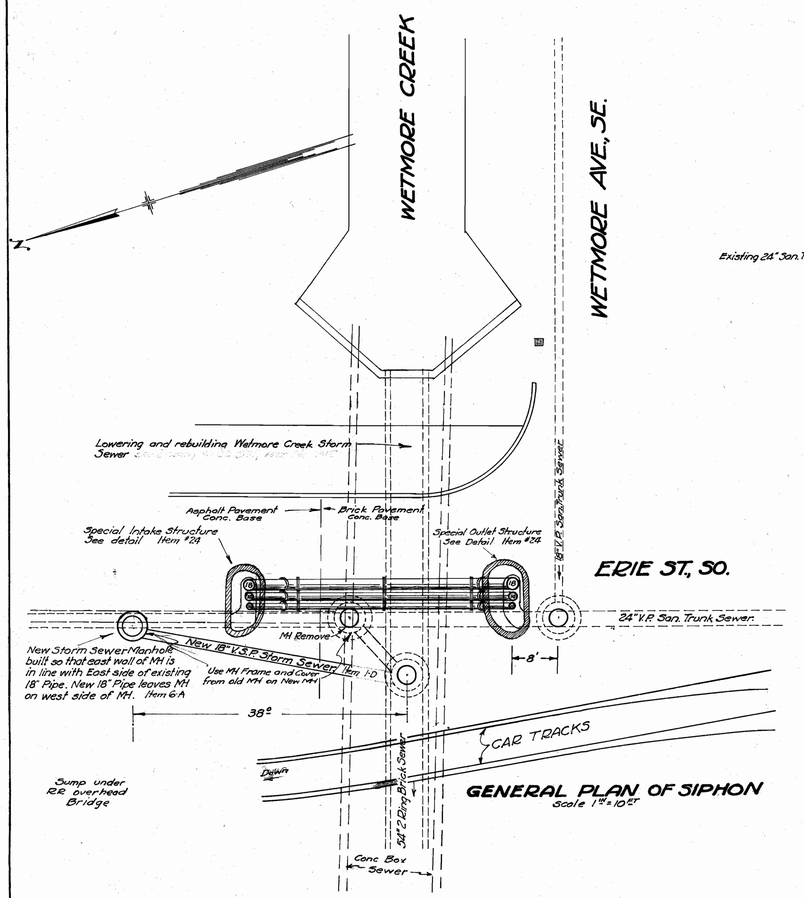
Existing 60in Gas Main

Existing 66in Gas Main

Existing 72in Gas Main

Existing 78in Gas Main

Existing



GENERAL PLAN OF SIPHON
Scale 1"=10'

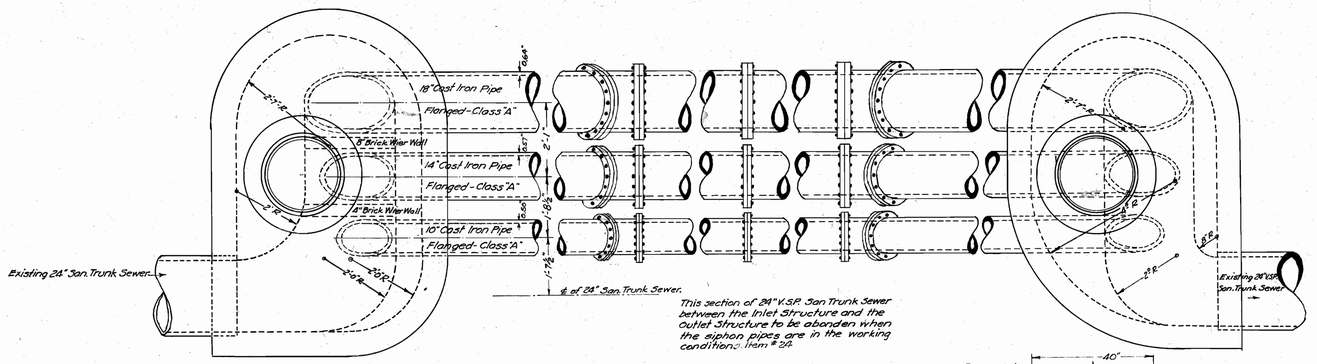
SECTIONAL VIEW ALONG 24" SAN. TRUNK SEWER
Scale 1"=10'

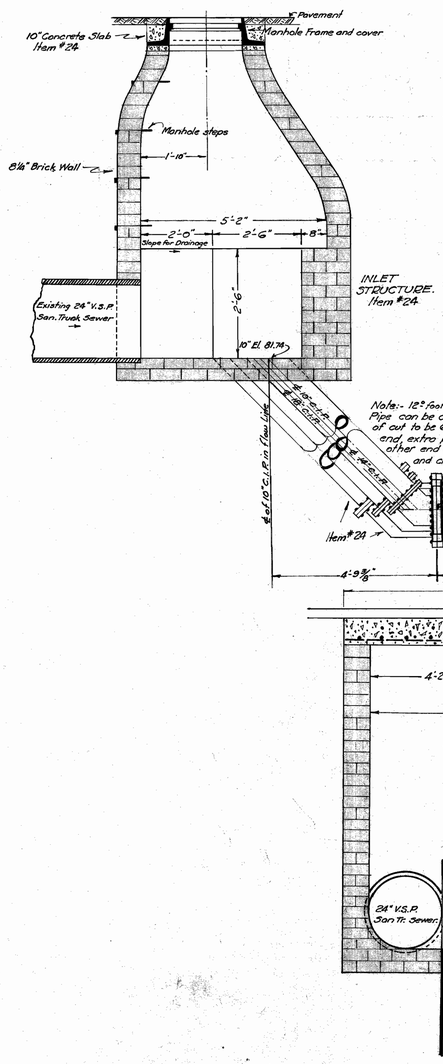
GENERAL NOTES.

Cast Iron Pipe to be class "A", Standard Flanged Pipe, Fittings to be, American Standard Flanged Fittings 125 lbs. per square inch.

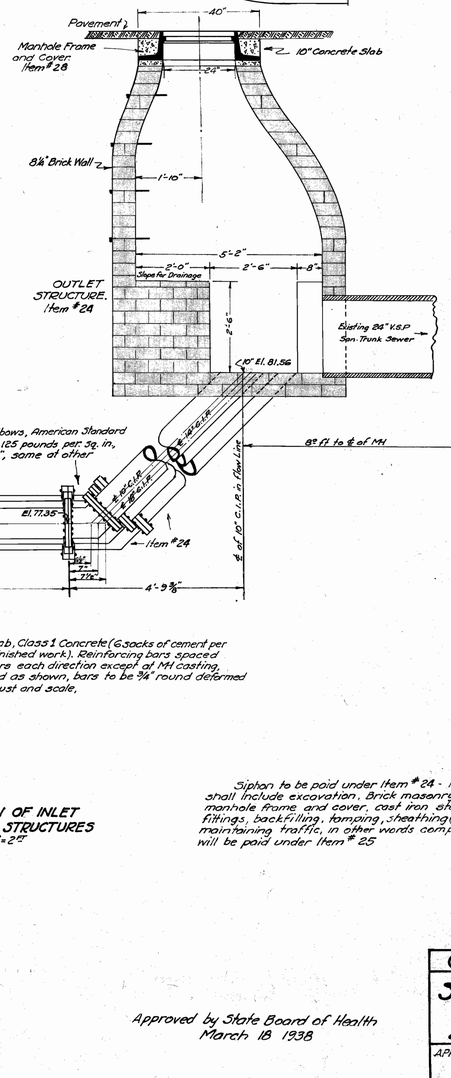
Elevations are taken from field and are calculated for points between MHs, so elevations will have to be checked when structures are uncovered.

BM: Hydrant S.E corner of Erie St, So and Wetmore Ave SE., Elev. 93.15





DETAILS OF INLET AND OUTLET STRUCTURES. AND THE CAST IRON SIPHON PIPES
Scale 1"=2'



X-SECTION OF INLET AND OUTLET STRUCTURES
Scale 1"=2'

Siphon to be paid under Item # 24 - 1-No Complete, price shall include excavation, Brick masonry, 10" Slab (conc.) top, manhole frame and cover, cast iron steps, cast iron pipe and fittings, backfilling, tamping, sheathing (except left in place) maintaining traffic, in other words complete, Pavement replacement will be paid under Item # 25

Approved by State Board of Health March 18 1938

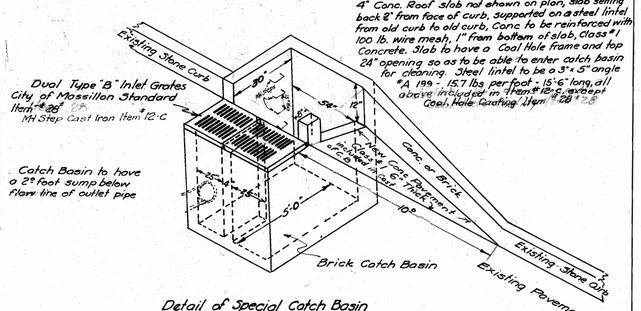
4/12

CITY OF MASSILLON, OHIO.

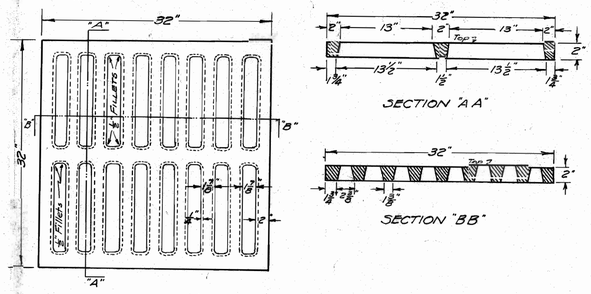
SIPHON UNDER WETMORE CREEK AT ERIE ST, SO.
24" VIT. PIPE SANITARY TRUNK SEWER

APPROVED CITY ENGINEER		DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION
Drby Geo. Wallace Ck by	Feb 11 1937	Scale as noted.

FILE NO SE 381 - ACC. NO 1414

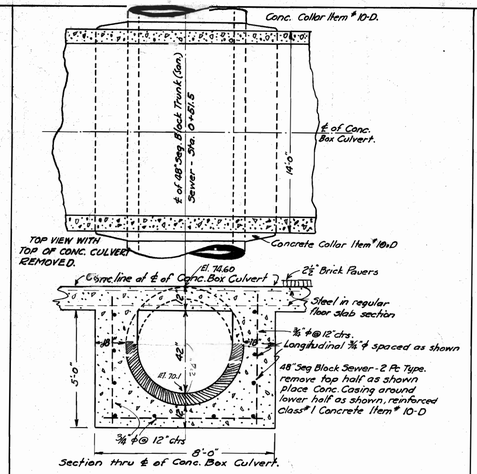


Detail of Special Catch Basin
Not to Scale
Item # 12-C — Bid Complete.



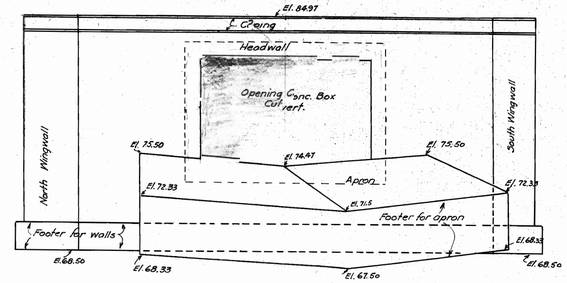
CITY OF MASSILLON STANDARD TYPE "B" INLET GRATE

CAST IRON
WEIGHT 300 LBS.
Item # 28



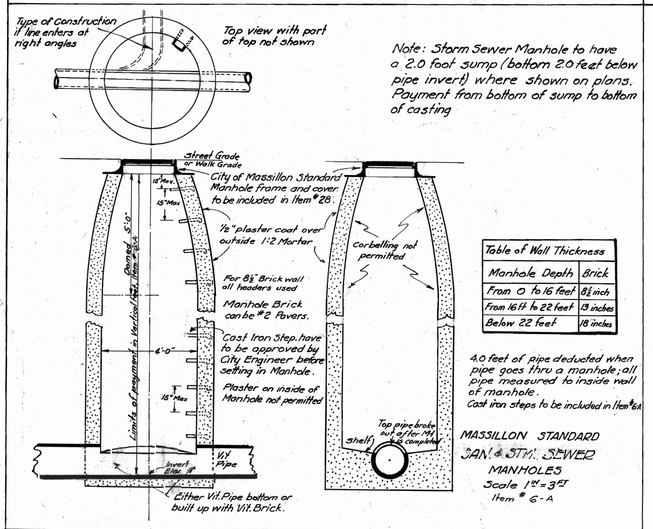
DETAIL OF SAN. SEWER CASING ON TUSCARAWAS TRUNK AT STA 0+51.5

Not to Scale.



FRONT VIEW OF HEADWALL AND APRON

Scale 1" = 5'-0"

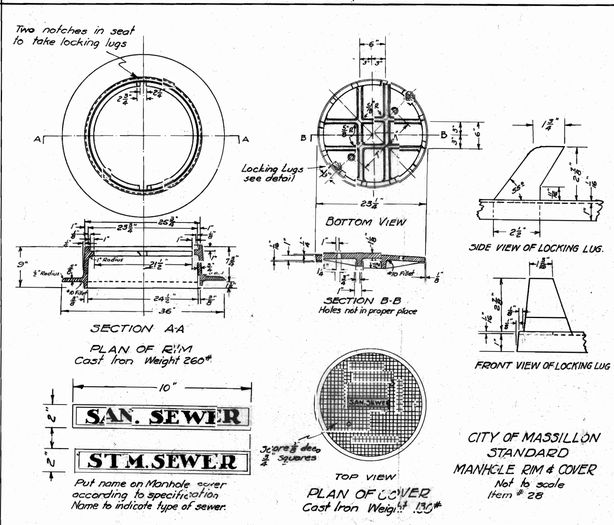


Note: Storm Sewer Manhole to have a 2.0 foot sump (bottom 2.0 feet below pipe invert) where shown on plans. Payment from bottom of sump to bottom of casting

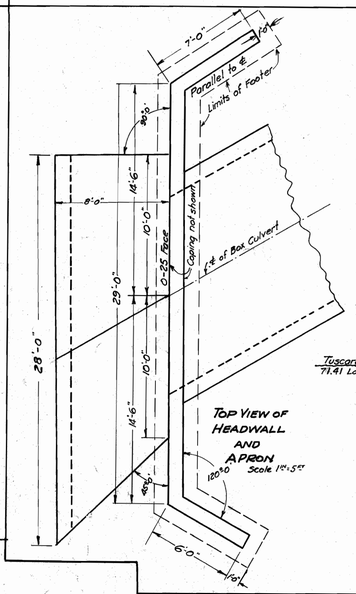
Table of Wall Thickness	
Manhole Depth	Brick
From 0 to 16 feet	8½ inch
From 16 ft to 22 feet	13 inches
Below 22 feet	18 inches

4.0 feet of pipe deducted when pipe goes thru a manhole; all pipe measured to inside wall of manhole. Cast iron steps to be included in Item # 6A

MASSILLON STANDARD SAN. & STM. SEWER MANHOLES
Scale 1" = 3'-0"
Item # 6-A

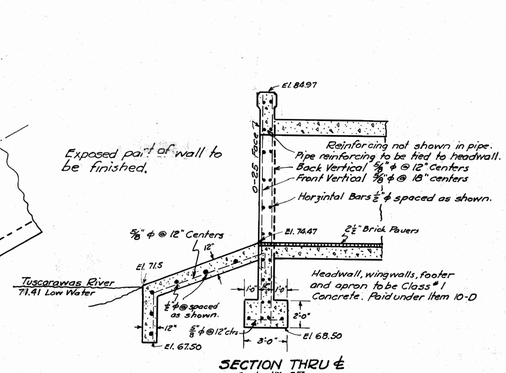


CITY OF MASSILLON STANDARD MANHOLE RIM & COVER
Not to scale
Item # 28

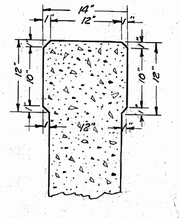


DETAILS OF HEADWALL AND APRON AT STA. 0-25

Exposed part of wall to be finished.



SECTION THRU ℄
Scale 1" = 5'-0"

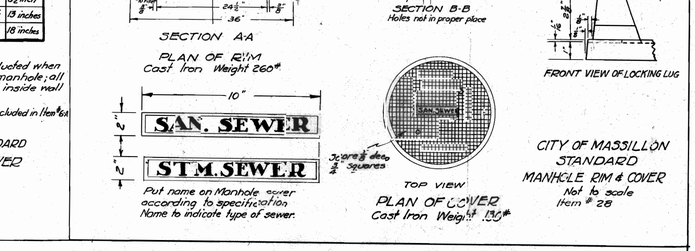


COPING SECTION
Reinforcing not shown
Scale 1" = 1'-0"

FITTINGS FOR END OF RAIL		
6	Cable at head	30"
6	Thimbles	6"
6	Eyebolts	7'-6"
6	Turnbuckles	1'-6" take up
6	1 Thrd. bolt 2 Nuts	1" x 9'-6"
4	Open washers	2"
1	Concrete (CY)	Bags of 94 lbs.
1	Bolt	1" x 4½"

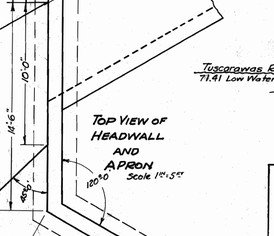
BILL OF MATERIAL (2 Wire Panel)		
4	Posts	6'-6" dia.
1	Cable	96'-4"
4	Hex. t. Bolts	⅝" x 7"
4	Washers	5" ø

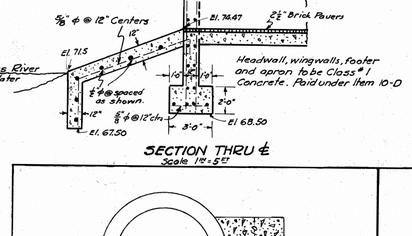
CITY OF MASSILLON STANDARD GUARD RAIL
Not to Scale.
Item # 22

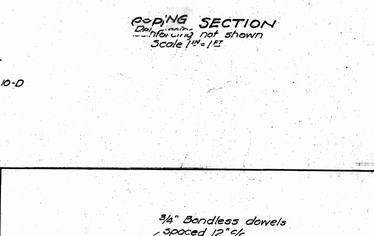


Rails shall be 1½" standard weight wrought iron pipe, spaced as shown, malleable iron fittings, threaded or slip joints firmly pinned. Painting shall include 1 coat of red or sublimed blue lead and 2 coats of coal tar pitch or asphalt varnish, rivets, bolt heads and all edges shall be given additional coat of paint. Payment under Item # 23, per lin. foot shall be complete.

CITY OF MASSILLON STANDARD PIPE RAILING
Not to Scale
Item # 23







Note: Expansion Joints to be placed max. distance of 50 feet for covered section, and 30 feet max. distance for open section. The expansion joints shall be included in the unit bid price of Item 10-D. Regular reinforcing not shown. Slip end of rod (dowel) to be wiped with oil so that rod will not stick.

EXPANSION JOINTS
NOT TO SCALE

S 12

THE CITY OF MASSILLON, OHIO.

WETMORE & SIPPO CREEKS IMPROVEMENT
DETAIL SHEET

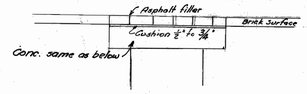
APPROVED C.E. Rice City Engineer	DEPT OF PUBLIC SERVICE ENGINEERING DIVISION
Dr by. Geo. C. Wellbaum	Scale as noted.

AKRON-CANTON-YOUNGSTOWN TELEPHONE 381 ASE. No. 14117

PAVEMENT REPLACEMENT
Item #25

BRICK PAVEMENT

Use the old Brick when possible, no bats. Asphalt filler used, on #7 slag cushion.



ASPHALT PAVEMENT

Paint edges 1st with Asphalt Emulsion, center Emulsion can be diluted 50%

T'GO Top - rolled in two courses, hand tamp edges or ¾ whole patch on 1st course



Edges shall be clean

Base to be 6" thick.

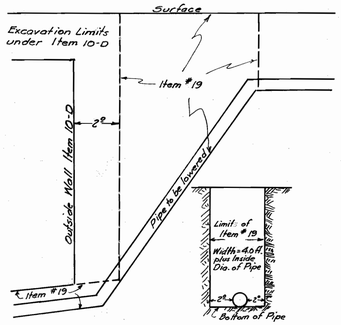
Conc. Base Class #1, 1:2:4 Mix use 2lbs Ca.Cl. per bag of cement, for quick setting, keep traffic off and dont cover top for 48 hrs. Protect from hot sun - don't pour when below 40° F.

Make new base 9" wider than ditch all sides

New base to be put in regardless whether existing pavement has base or not.

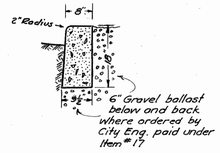
Payment to be under Item # 25 either Brick or Asphalt. Shall be measured from amt. put in, MHs and Catch Basins will be deducted.

SPECIAL EXCAVATION DETAIL
Item # 19



Note to Contractor: Contractor will dig ditch for lowering Public Utility lines. Utilities will furnish and relay new lines to grade, contractor will backfill, puddle and tamp where needed to dispose of surplus material, this will be paid under Item # 19. price per cubic yard special excavation. Contractor will replace pavement or walks, paid under these Items.

City has right to shift location of all utility lines but cannot change grades either ind. or location.

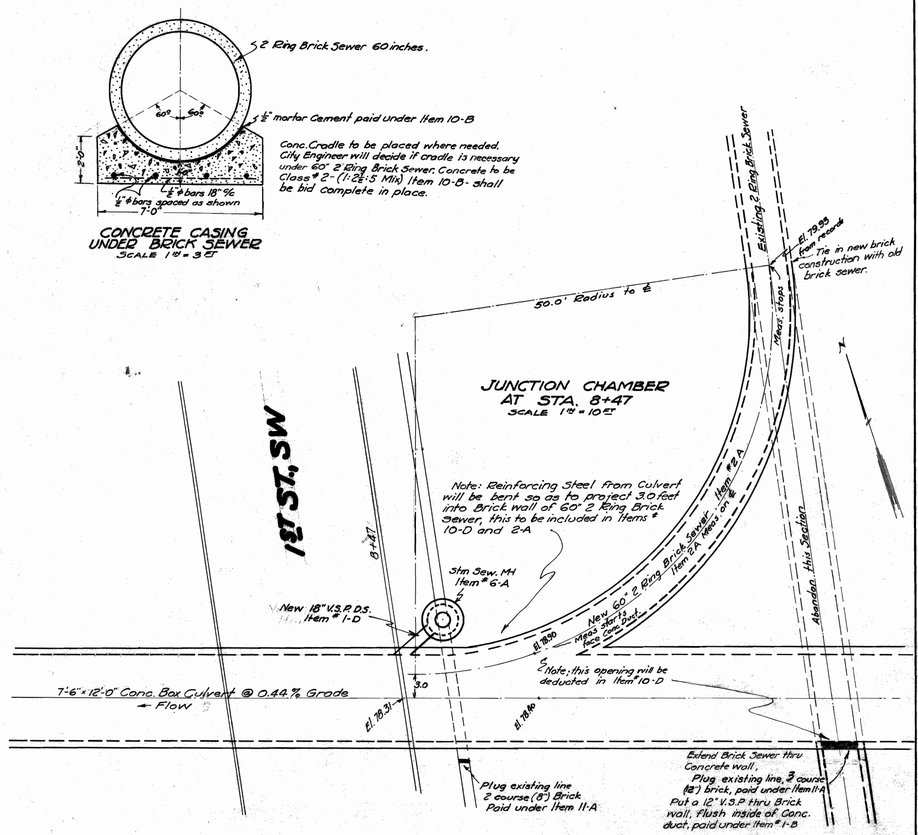


6 sacks cement per cu.yd. of finished work. Slag (crushed) or stone for course aggregate, clean washed sand for fine aggregate. Steel forms. curbing to be cured by keeping covered for three days. Will be paid under Item #10-D, complete in place.
0.03515 cu.yds. per lin. foot.

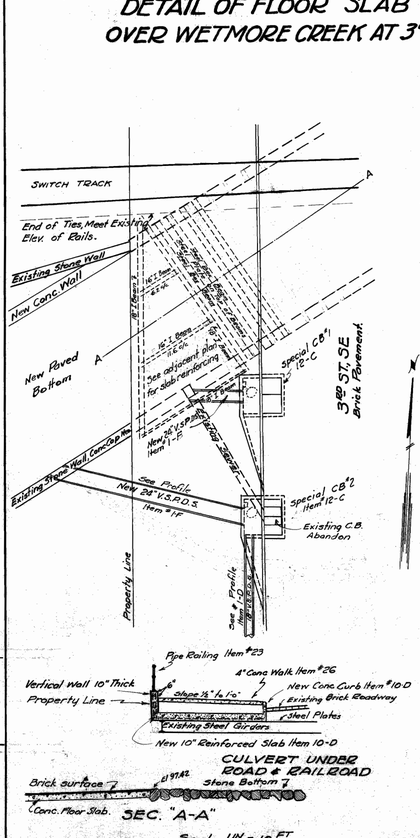
CITY OF MASSILLON STANDARD CONC. CURB.
NOT TO SCALE.

CONCRETE CASING UNDER BRICK SEWER
SCALE 1" = 3'-0"

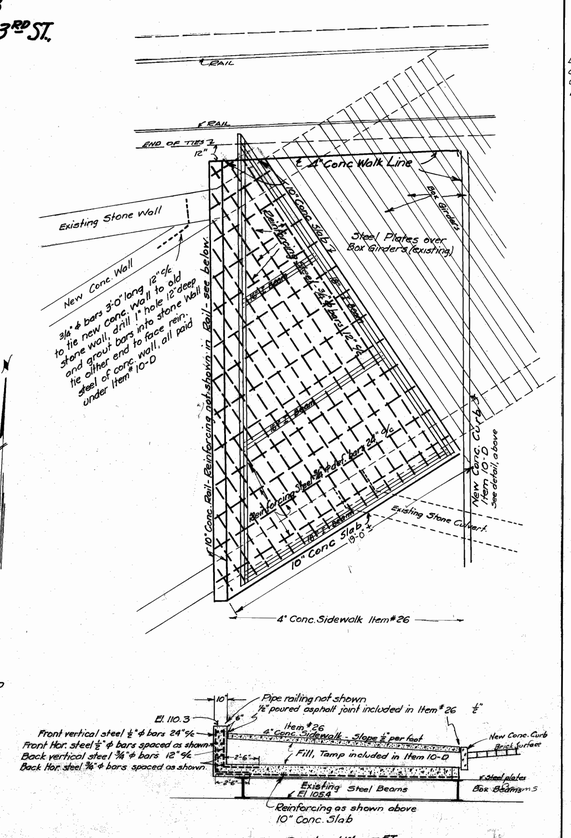
Conc. Cradle to be placed where needed. City Engineer will decide if cradle is necessary under 60" 2 Ring Brick Sewer. Concrete to be Class # 2 - (1:2½:5 Mix) Item 10-B - shall be bid complete in place.

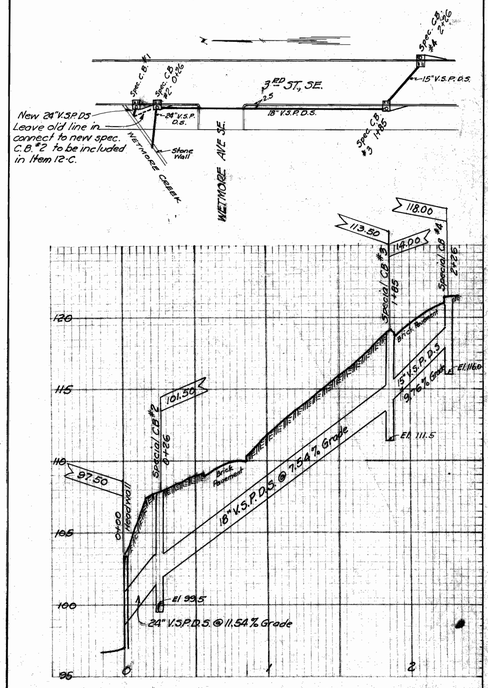


DETAIL OF FLOOR SLAB OVER WETMORE CREEK AT 3RD ST.



CULVERT UNDER ROAD & RAILROAD





DETAIL OF STORM SEWER 3RD AND WETMORE

(6/12)

THE CITY OF MASSILLON, OHIO

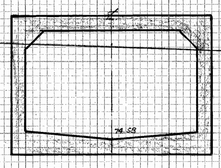
WETMORE & SIPPO CREEKS IMPROVEMENT
DETAIL SHEET

APPROVED C.C. Rice CITY ENGINEER	DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION.
By Geo. C. Wallace	Scale as noted

FILE No. SE 2881 ACC. No. 11885

40 30 20 10 0 10 20 30 40

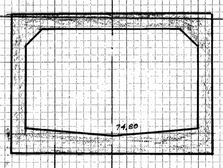
SOUTH NORTH



80

0+00

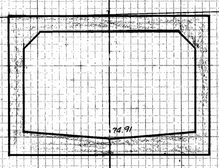
74.28



80

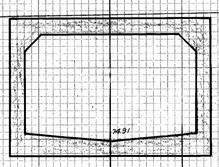
0+50

74.80



80

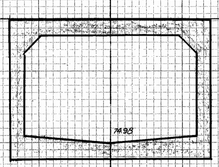
0+75 (AB)



80

0+75 (BC)

BASE



80

0+90

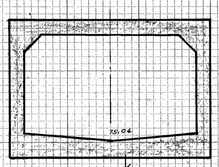
LINE

Top Of Tie

1+04.9

℄ Tracks

85

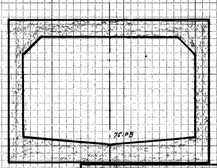


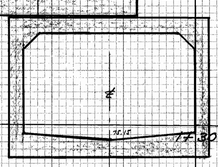
SPECIAL CONSTRUCTION SEE SHEETS #1 & #2

85

1+14

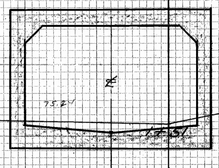
Top of Rail





75

1+30



75

1+51

CITY OF MASSILLON, OHIO

WETMORE CREEK X-SECTIONS

APPROVED CITY ENG'R. C.E.R. Rice		DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION	
Plotted: T.E.R. Computed:	Scale 1"=50'	9-23-38	NB. 141 - P. 29 NB. 141 - P. 11

7/12

FILE: MD. SEC. 38 / ACCT. 4819

8/12

2

CITY OF MASSILLON, OHIO

WETMORE CREEK X-SECTIONS

APPROVED: C. E. Rice, CITY ENGR.

DEPT. OF PUBLIC SERVICE
ENGINEERING DIV.

Plotted: TER 8-23-38
Computed:
Scale: 1"=5'

N.B. 141: 229
N.B. 141: 211

1+16

1+42.67

Natural Grade

Natural Overhead

Special Conc. under E.P. Marker see Sheet No. 1 & 2

2+05

2+55.68

2+69.98 (PC)

Same as above

3+00

BASE

3+27.2 ℄ RR 3 feet to Base Line

Top of Bank

Top of Slope

Proposed top of fill

Special Conc. Under E.P. Marker See Sheets #1 & 2

>A

>A

3+50

LINE

Av. Width 18.8'

Sec. A-A

4+00

4+50

NORTH

SOUTH

0

10

20

30

40

85

85

85

85

85

85

85

90

TRAVERSE LINE or Base Line

FILE No SE 381 ACC. No. 11820

40 30 20 10 0 10 20 30 40 50

SOUTH NORTH

90

Assume (C.D) ℄ (0.2) Joint

74.77

74.77

5+50

Floor Line
Bottom Footer

77.00

90

6+00

77.72

90

℄

6+42.45

77.41

90

Power Pole

7+00

BASE

77.66

90

℄

7+50

77.28

90

Frame Pole

Old Brick Bldg.

℄

BASE

78.10

90

BEECH STREET

℄

78.25

90

℄

78.40

90

℄

9+00

78.54

60" Z Ring Brick Sewer 9+07±

CITY OF MASSILLON, OHIO

WETMORE CREEK X-SECTIONS

APPROVED C.E. Ruiz CITY ENGR.

DEPT. OF PUBLIC SERVICE
ENGINEERING DIV.

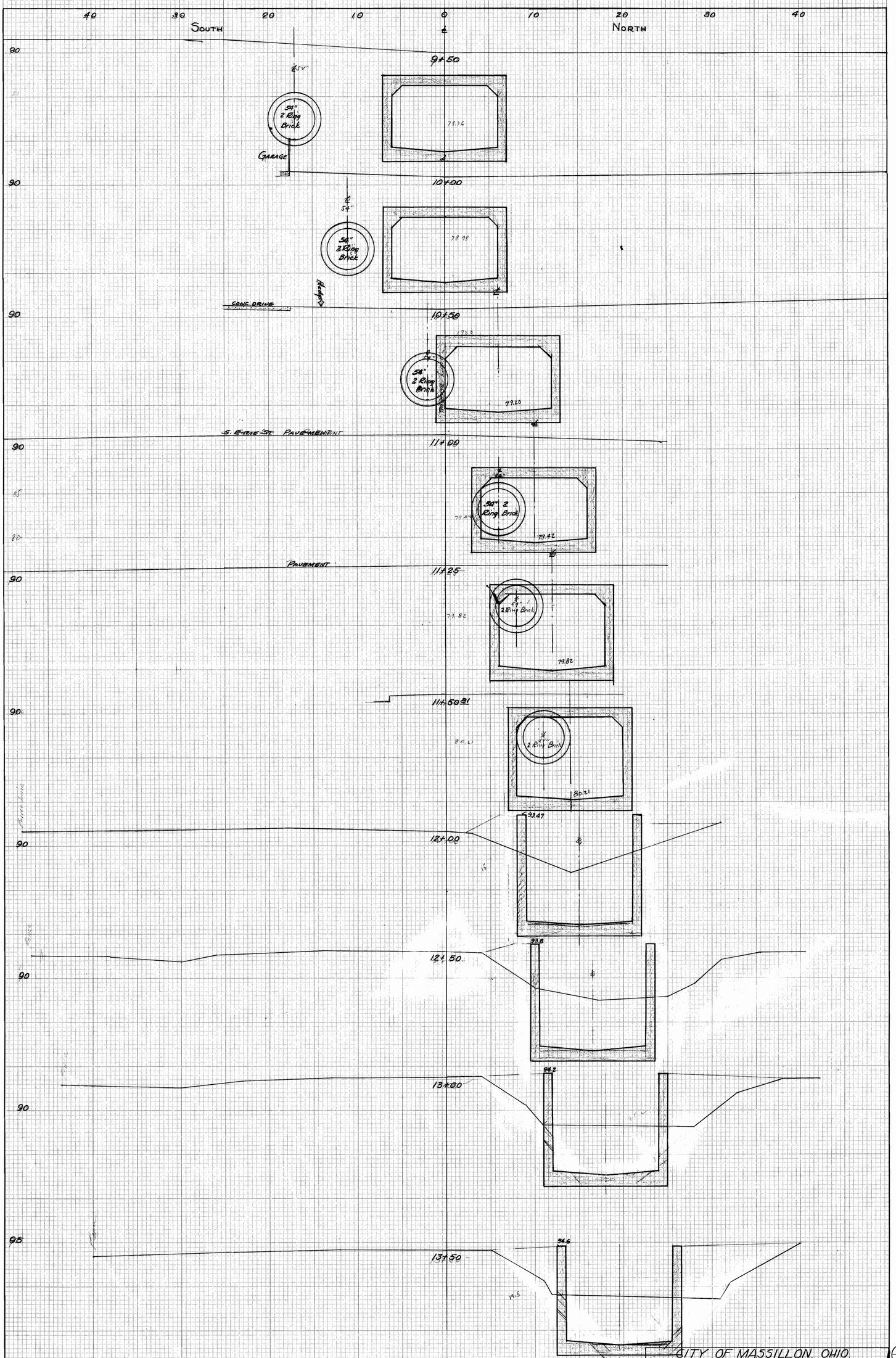
Plotted: T.E.R 9-23-38
Computed:

Scale: 1" = 5'

N.B. 141, P. 29
N.B. 141, P. 11

9
12

FILE No. SE-381 Acc No. 11821



CITY OF MASSILLON, OHIO.

10/12

WETMORE CREEK X-SECTIONS

APPROVED C.B. Zeigler CITY ENGR		DEPT. OF PUBLIC SERVICE ENGINEERING DIV.
Plotted T.E.R. Computed	9-23-38	SCALE 1"=5'
		NB 141-P29 NB 141-P11

4

FILE: No. SEC 3881 ACC No 14822