S. W. S. NO. 150

STORM SEWERS IN WESTPARK ADDITION

PROJECT NO.

468-76-245-80693-000-000-001

CITY OF WICHITA, KANSAS
DEAN SELLERS
ACTING CITY ENGINEER

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH PAVING AND SANITARY CONTRACTORS AND CONTACT RELEVANT UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THIS PROJECT SITE DEVELOPMENT.

2. FIELD ENGINEER SHALL TAKE TIES TO ALL IRONS AND THIMBLES IN THE PROJECT AREA BEFORE CONSTRUCTION BEGINS. FIELD ENGINEER SHALL REPLACE ALL SUCH IRONS AND THIMBLES DISTURBED DURING CONSTRUCTION.

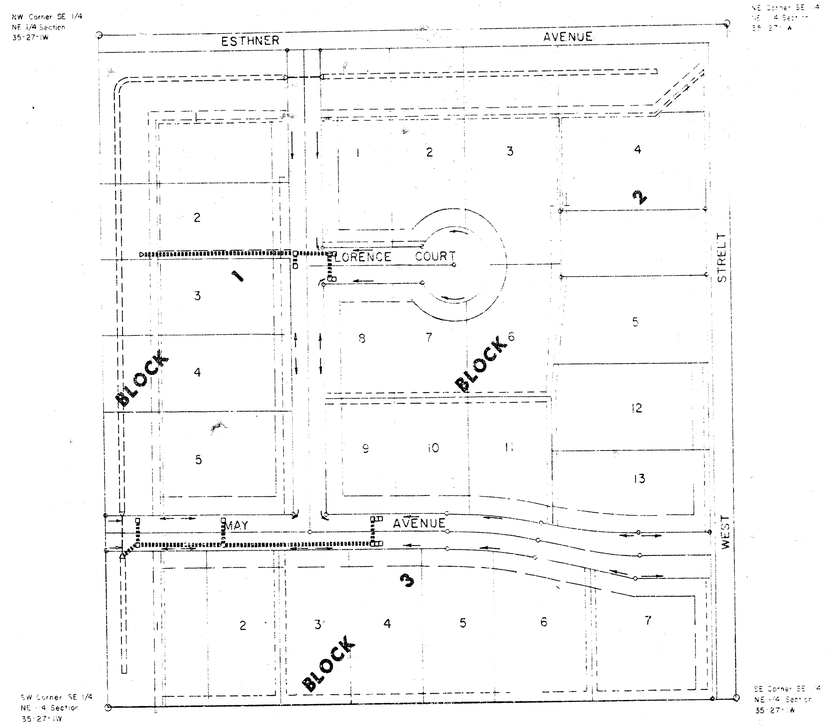
3. THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.

4. ALL METAL PIPES SHALL BE HELICALLY CORRUGATED PIPE FULLY COATED BOTH INSIDE AND OUTSIDE. THE COATING MAY BE BITUMINOUS OR POLYMERIC AS SPECIFIED IN AASHTO DESIGNATION: M246 - 78, TYPE B. ALL SUCH COATED CORRUGATED PIPE SHALL BE SMOOTH FLOW PIPES FOR SIZES 24" DIAMETER OR LARGER. ALL CONNECTIONS FOR THESE FULLY COATED OR FULLY PAVED AND FULL ASPHALT COATED PIPES SHALL BE FAIRLY WATERTIGHT CONSTRUCTED USING HUGGER TYPE COUPLER OR EQUAL.

5. ALL CONCRETE SHALL BE "6-SACK" CONCRETE" UNLESS OTHERWISE NOTED.

6. THE RIPRAP FOR THIS PROJECT SHALL BE TYPE 5. THE TYPE 5 RIPRAP SHALL BE 12" RIPRAP ON 6" SAND AND GRAVEL BEDDING. THE ROCK FOR RIPRAP AND GRAVEL PROTECTION SHALL BE HARD, DENSE, DURABLE AND SHALL BE REASONABLY WELL GRADED. THE SIZE RANGE OF ROCK USED SHALL BE A MAXIMUM OF ONE CUBIC FOOT AND A MINIMUM OF 1 1/2 INCH. THE 6 INCH SAND AND GRAVEL BEDDING FOR RIPRAP SHALL BE A CONTINUOUS LAYER OF SAND AND GRAVEL OR SAND AND CRUSHED ROCK, REASONABLY WELL GRADED TO A MAXIMUM OF 1 1/2 INCHES IN SIZE.

7. CONTRACTOR SHALL AVOID UNCOVERING EXISTING WATER LINES UNLESS ABSOLUTELY NECESSARY. UNCOVERING SHALL BE DONE ONLY IN THE PRESENCE OF A WATER DEPT. ENGINEER.



No Scale

INDEX TO DRAWINGS

1 TITLE SHEET
2 LINE 1,1A,B&C
3 LINE 2,2A&B
4 TYPE IA INLET DETAIL

Van Doren - Hazard - Stallings
Architects • Engineers • Planners
Topeka Wichita Minneapolis

Sheet 1 of 1

N

Scale: 1"=20' Horiz
1"=5' Vert

Sta 0+98.75-1A
Const Std Type 1A
inlet W=4'-8" Std
0+75.00 Lt May Ave
TC=108.97

15' Drainage & Utility Esmt

5' Utility Esmt

Lot 5
Block 1

Sta 0+48.75-1B
Const Std Type 1A
inlet W=9'-2" Sta
2+75.00-Rt May Ave
TC=108.97

FLORENCE ST.

Sta 0+88.59-1C
Const Std Type 1A
inlet W=6'-8" Sta
5+85.00 Lt May Ave
TC=108.99

Sta 0+87.59-1C
Const Std Type
1A inlet W=4'-8"
Sta 5+75.00 Lt May Ave

Sta 0+61.59-1C
Const Std Type 1A
inlet W=9'-8" Sta
5+91.00-Lt May Ave
TC=108.60

9 LF 18" RCP@1.85%
Alt 9 LF 15" CMP@1.85%
(Fully coated)
DS IE=108.90 US IE=108.60

Sta 0+27.46
26.30 Rt
TC=108.97

TC=108.97

392.50'

W

W

49 LF 18" RCP@10.80%
Alt 49 LF 18" CMP@10.80% (fully coated)
DS IE=109.61 US IE=105.00

MAY

49 LF 18" RCP@10.60%
Alt 49 LF 18" CMP@10.60%
(Fully coated)
DS IE=104.56 US IE=104.61

41' ±

48 LF 21" RCP@0.80%
Alt 48 LF 21" CMP@10.80%
(fully coated)
DS IE=103.91 US IE=104.30

AVE.

9 LF 18" RCP@1.85%
Alt 9 LF 15" CMP@1.85%
(Fully coated)
DS IE=104.80 US IE=104.90

Headwalls & Underroad Pipe By others

Sta 5+91.00-1
Const Std Type 1A
inlet W=4'-8"
Sta 5+91.00 Rt May
Ave TC=108.80

1 2 3 4 5 6

212.34'

150.00'

150.00'

Sta 0+76.00-1
Sta 0+00-Line 1A
Const Std Type 1A inlet
W=6'-0" Sta 0+76.00
Rt May Ave
TC=108.97

Sta 2+75.00-Line 1A
Sta 0+00-Line 1B
Const Std Type 1A inlet
W=6'-0" Sta 2+75.00 Lt
May Ave TC=108.97

Sta 4+27.92-May Ave
Sta 0+00-Florence St.

Sta 5+75.00-1
Sta 0+00-1C
Const Std Type
1A inlet W=5'-0"
Sta 0+75.00 Rt
May Ave TC=108.97

Sta 5+18.00
Const Std Type
1A inlet W=8'-8"
Sta 5+85.00 Rt May Ave
TC=108.99

Sta 0+67.18
Line 1

5'

Sta 0+39.0-Begin
Installing Pipe

Sta 0+00
Beginning of Construction
May Ave

115' Drainage Esmt

Lot 7

Lot 2
Block 3

Lot 3

BM #1 Stp Spk on W face PP on SW cor of Esthner Ave & West St. Elev=118.10

BM #2 Stp Spk on NW face of End PP N of May Ave on W R/W West St. Elev=110.06

BM #3 Stp Spk on S face of PP 7'E of E of Florence St on N R/W of Esthner Ave Elev=116.95

Sta 0+39.0-Line 1
Begin Installing Pipe

Sta 0+76.00-Line 1=
Sta 0+00-Line 1A
Const Std Type 1A inlet
W=6'-0" Sta 0+76.00
Rt May Ave
TC=108.97

Sta 2+75.00-Line 1=
Sta 0+00-Line 1B
Const Std Type 1A inlet
W=6'-0" Sta 2+75.00 Lt
May Ave TC=108.97

Sta 4+27.92-May Ave=
Sta 0+00-Florence St.

Sta 5+75.00-1=
Sta 0+00-1C
Const Std Type
1A inlet W=5'-0"
Sta 0+75.00 Rt
May Ave TC=108.97

Sta 5+18.00
Const Std Type
1A inlet W=8'-8"
Sta 5+85.00 Rt May Ave
TC=108.99

Sta 5+91.00-1=
Const Std Type 1A
inlet W=4'-8"
Sta 5+91.00 Rt May Ave
TC=108.80

36 LF 36" RCP@0.98%
Alt 36 LF 36" CMP@0.98%
(Fully Paved & Fully coated)

200 LF 36" RCP@0.48%
Alt 200 LF 36" CMP@0.48%
(Fully Paved & Fully coated)

300 LF 30" RCP@0.36%
Alt 300 LF 30" CMP@0.36%
(Fully Paved & Fully coated)

4 LF 18" RCP@1.85%
Alt 4 LF 15" CMP@1.85%
(Fully coated)

4 LF 18" RCP@1.85%
Alt 4 LF 15" CMP@1.85%
(Fully coated)

66" RCP

110
105
100
95

E. strm INV=99.58

E. out (SW)=99.25
E. inlet=101.73
E. in INV=104.61

E. out INV=102.37
E. inlet=102.73
E. in INV=104.82

E. out INV=103.84
E. inlet=103.96
E. out (W)=103.96
E. inlet=103.16
E. out INV=103.26

0 1 2 3 4 5 6

101.84 101.34 102.05 102.15 102.26 102.36 102.47 102.82 102.9 103.03 103.09 103.19 103.27 103.36 103.45 103.54 103.65 103.72

1/3
2/3

Lot 2
Block 1

Lot 3
Block 1

Sta 10+60.00-E
Install 36" End Section

Type 3 Rip Rap

20' Drainage Easement

393.24'

15' Drng Esmt.

5' Util Esmt.

115' Drainage Easement

Sta. 0+00 - Florence Ct. =
Sta. 5+20.00 - Florence St.

Sta 14+04.73-E=
Sta 0+00-EA
Const Std Type 1A
inlet W=4'-8"
Sta 5+20.00-Lt
Florence St.

24 LF 15" RCP @ 10.40%
Alt 24 LF 15" CMP @ 1.0.42%
(fully coated)
D.S. IE = 104.61 U.S. IE = 104.71

Sta 0+24.00-Line EA
Const Std Type 1A
inlet W=4'-8" Sta
5+20.00-Lt Florence
St. TC=109.44

20' Util. Esmt.

8.35

W

41' b.b.

ST.

R/W

30' R. tc.
T.C.=109.41
+70.00

T.C.=109.41
+60.00

T.C.

FLORENCE CT.

109.40

109.24

109.40

35'

35'

FLORENCE

35'

35'

30' R. tc.
T.C.=109.41
+70.00

T.C.=109.41
+60.00

T.C.

Sta 16+85.34-E=
Sta 0+00-SB
Const Std Type
1A inlet W=5'-2"
Sta 6+33.84-Lt Florence
Ct

4 LF 18" RCP @ 1.0.40%
Alt 4 LF 18" CMP @ 1.0.40%
(fully coated)

Sta 0+08.00-EB
Const Std Type 1A
inlet W=4'-8"
Sta 0+61.84-Lt Florence
Ct TC=109.14

Scale 1" = 80' Horz.
1" = 5' Vert.

Sta 15+90.92-E
Const Std Type 1A
inlet W=4'-8"
Sta 0+61.84-Rt
Florence Ct

Sta 15+32.90-E
Const Std Type 1A
inlet W=4'-8"
Sta 0+53.84-Rt
Florence Ct

℄ of Pipe

4:1 SS

4:1 SS

Typical Section of Swale

Sta 0+60.00-E Install
36" End Section

345 LF 36" RCP @ 10.60%
Alt 345 LF 36" CMP @ 10.60%
(Fully Paved & fully coated)

Sta 14+04.73-Line E
Sta 0+00-Line EA
Const Std Type 1A inlet W=4'-8"
Sta 0+24.00-Lt Florence
St TC=109.44

℄ Florence St.

81 LF 24" RCP @ 10.70%
Alt 81 LF 24" CMP @ 10.70%
(Fully Paved & fully coated)

Sta 16+85.34-Line E
Sta 0+00-Line EB Const
Std Type 1A inlet W=4'-8"
Sta 0+53.84-Lt Florence
Ct TC=109.11

℄ Florence Ct.

Sta 15+32.90-Line E
Const Std Type 1A inlet
W=4'-8" Sta 0+61.84-Rt
Florence Ct TC=109.14

Sta 15+90.92-Line E
Const Std Type 1A inlet
W=4'-8" Sta 0+61.84-Rt
Florence Ct TC=109.14

48 LF 18" RCP @ 10.60%
Alt 48 LF 18" CMP @ 10.60%
(Fully coated)

4 LF 15" RCP @ 10.90%
Alt 4 LF 15" CMP @ 10.90%
(fully coated)

Existing Ground

Proposed Street Grade

Swale
(See Typical
Section)

Proposed Water

8" San Sewer
IE = 104.64

Type 3 Rip Rap

℄ of Channel = 97.54

Exist IN = 103.13
E. IN (2) = 103.86
E. IN (3) = 104.61

Exist IN = 104.42
E. IN (3) = 104.92
E. IN (2) = 105.17

Exist IN = 103.61
E. IN (2) = 103.96

Exist IN = 103.92

115
110
105
100
95

10 11 12 13 14 15

99.54 99.59 99.64 99.69 99.74 99.79 99.84 99.89 99.94 100.00 100.04 100.09 104.00 104.18 104.35 105.01 105.16