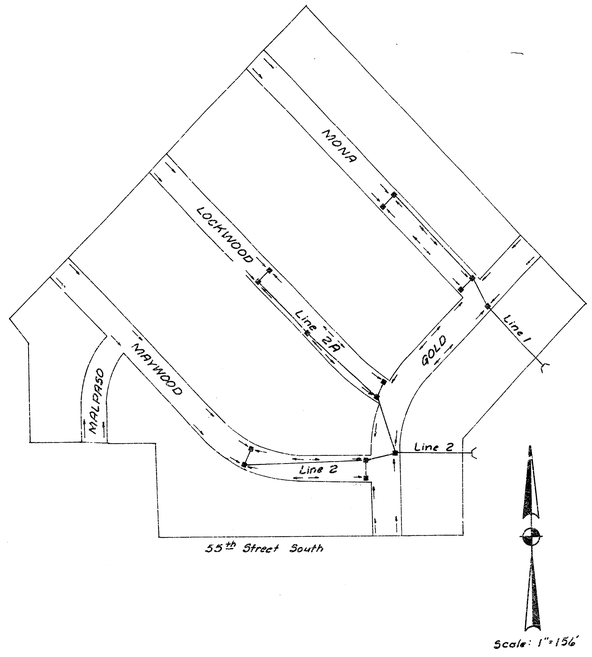
STORM WATER SEWER NO. 161

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH PAVING AND SANITARY SEWER CONTRACTORS; AND CONTACT RELEVANT UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THE FINE ARTS OF THIS PROJECT SITE DEVELOPMENTS.
2. FIELD ENGINEER SHALL TAKE TIES ON ALL IRONS AND THIMBLES IN THE PROJECT AREA PRIOR TO CONSTRUCTION. FIELD ENGINEER SHALL REPLACE ALL SUCH IRONS AND THIMBLES DISTURBED DURING CONSTRUCTION.
3. THE CURB INLET LOCATIONS AS NOTED ON THE PLANS MAY VARY FROM PROPOSED PAVING PLANS. THE FIELD ENGINEER SHALL LOCATE CURB INLETS WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
4. CORRUGATED METAL PIPES FOR SIZES 21" AND LESS DIAMETER SHALL HAVE HELICAL CORRUGATIONS AND ALL SUCH PIPES FOR SIZES 24" AND LARGER DIAMETER SHALL HAVE FULLY PAVED (FP) SMOOTH FLOW INTERIORS.
5. ALL CONCRETE SHALL BE "6-SACK CONCRETE" UNLESS OTHERWISE NOTED.
6. EARTHWORK DOWNSTREAM FROM HEADWALLS AND FOR RIP-RAP SHALL BE PAID FOR IN ITEMS BID FOR HEADWALLS, PIPES AND/OR RIP-RAP.
7. HEADWALLS AT PIPE OUTFALL SHALL BE CONSTRUCTED TO ALIGN WITH THE SLOPE OF BANKS IN ORDER THAT WALL PROTRUSION IS MINIMUM. WHERE SUCH PROTRUSION CANNOT BE AVOIDED, FILL AROUND THE WALLS AT APPROXIMATELY 5:1 SIDE SLOPE SO HEADWALL APPEARS ENTIRELY RECESSED.
8. CONTRACTOR HAS THE OPTION TO INSTALL PRE-CAST TYPE I-A CURB INLET IN LIEU OF THE BRICK TYPE CONSTRUCTION, SEE STANDARD DETAIL PRE-CAST TYPE I-A INLET DATED AUGUST, 1979.



DEAN SELLERS, ACTING CITY ENGINEER
CITY OF WICHITA, KANSAS

PROJECT NO. 468-76-245-80754-000-000-001

DATE:_____

SWS#161

S. 1/4 1 of 7

OLK 380, Street Survey
W.O.K.

BM 82.05 R.R Spk. NE-face tele pole, N-side 55th St. So. 30' W. of W.L. Gold.

Lot 17, Blk 11

℄ Pond Bottom Line

Sta. 0+80 ± Start Pipe

5'3"

24"

LEVEE-TION

℄ Pond Shore Line

℄ Sta. 1+00 Lot Line

Constr. 24" SWS @ ℄ 20' Drainage Easement

SCALE: 1" = 20' Hor.
1" = 5' VERT.

CAUTION! 12" Water Line

8" San. Sewer

℄ Sta. 2+50 Lot Line

12" Water Line

GOLD

FLOW

RESERVE A

Constr. Headwall

Install Type 3 Rip-Rap

CAUTION! 8" San. Sewer

Sta. 2+61.42 Constr. Type 1A Curb Inlet, w=4'2", Top: 81.00

Constr. 21" SWS

Lot 10, Blk 6

CAUTION! 6" Water Line

Constr. Type 1A Curb Inlet w=4'2", Top: 81.00

Install 35' of 15" Pipe USFL 77.56, DSFL 76.86

18.85'

LOT 9

LOT 8

LOT 7

LOT 6

Install 85' of 15" Pipe USFL 77.56, DSFL 77.21

Constr. Type 1A Curb Inlet w=4'2", Top: 81.00

22.5'

CAUTION! 6" Water Line

℄ 6" Water Line

NONA

31'

B/a

60' R/w

Constr. 18" SWS

Sta. 3+36.20 Constr. Type 1A Curb Inlet, w=4'2", Top 81.00

18.85'

32.8'

Sta. 5+98.85 Constr. Type 1A Curb Inlet, w=4'2", Top: 81.00

37' B/a

66' R/w

Lot 11, Blk 7

Lot 12

Lot 13

Lot 14

Lot 15

Lot 17, Blk 11

8" San. Sewer FL 72.5

12" Water Line

Sta. 2+61.42 Const. Type 1-A CURB INLET w=4'2" Top 81.00

Sta. 3+36.20 Const. Type 1-A CURB INLET w=4'2" Top 81.00

Sta. 5+98.85 Const. Type 1-A Curb Inlet w=4'2" Top 81.30

First Steel Grade

LINE 1

85

80

75

70

Earthwork by Others

Sta. 0+80 ± Start Pipe

Ground Line

℄ DWS 80.0

℄ Permanent Pool 76.0

Bottom 71.0

Constr. Headwall IE EL 74.25

Install Rip-Rap

7:1

7:1.35'

℄ Proposed Top of Curb

℄ Ground Line

76.96

75.10
7± 35

75.65
75.90

181.42' SWS @ +0.40%
Alt. #1 24" RCP
Alt. #2 24" CMP (FP)

76.0'
~~76.78~~ SWS @ +0.40%
Alt. #1 21" RCP
Alt. #2 21" CMP

264.0'
~~263.65~~' SWS @ +0.40%
Alt. #1 18" RCP
Alt. #2 18" CMP

0 | 74.45 | 1 | 74.85 | 2 | 75.51 | 3 | 76.16 | 4 | 76.56 | 5

SWS #161, Line 1 Sheet 21/14 7

LOT 17, Blk 11

℄ Pond Bottom Line

Sta. 0+27 Start Pipe

DETENTION

℄ Pond Shore Line

℄ Sta. 0+30 Property Line

20'

8.3'

10'

FLOW

Constr. 36" SWS @ ℄ 20' Drainage Easement

RE-SERVE A

Constr. Headwall

Install Type 3 Rip-Rap

Street Survey WSH

Iron, Sta. 2+00

GOLD

Constr. 21" SWS

2+10.76
Sta. 2+11.42 Constr. Type 1A Curb Inlet, w=4'2", Top 81.00

21" SWS
See Line 2A, Sheet 4

8" San. Sewer

LOCKWOOD

LOT 17, Blk 11

LOT 1, Blk 4 | LOT 2 | LOT 3 | LOT 4 | LOT 5 | LOT 6, Blk 4

℄ 10' Util Easmt

19'

Constr. Type 1A Curb Inlet w=4'2", Top 81.00

Install 38' of 15" Pipe USFL 77.56, DSFL 76.86

MAYWOOD

8" San. Sewer

Constr. 18" SWS

Sta. 3+45 Constr. Type 1A Curb Inlet, w=4'2", Top 81.00

Install 35' of 15" Pipe USFL 77.56, DSFL 77.21

7.5%

90°

Sta. 3+87, Constr. Type 1A Curb Inlet, w=4'2", Top=81.00

8" San. Sewer

CAUTION! 12" WATER LINE

37' B/B

66' R/W

CAUTION! 8" Water Line

℄ 20' Util Easement

LOT 11, Blk 5

CAUTION! 8" WATER LINE

Constr Type 1A Curb Inlet w=4'8", Top 81.00

LOT 12

LOT 13

Scale: 1"=20' HOR. 1"=5' VERT.

LOT 14, Blk 5

LINE 2

Ground Line

Proposed Top of Curb

Ground Line

0+27 Start Pipe

℄ DWS 80°

Perm. Pool 76°

Earthwork by Others

℄ Bottom 71°

Install Rip-Rap

Constr. Hdwl. El. 72.40

72.58

12" Water Line 72.74 Constr. Inlet, Top 81.0 W=4'2"

Finished Grade

8" San. Sewer El. 73.14

6" Water Line 72.74

2+87 Constr. Inlet Top 81.0 W=4'2"

73.32 74.97

75.05 75.25

3+45 Constr. Inlet, Top 81.0 W=4'2"

74.96

193.76'
184.42' @ +0.40%
Alt #1 36" RCP
Alt #2 36" CMP (FP)

77.3
75.58' @ +0.62%
Alt #1 21" RCP
Alt #2 21" CMP

287' @ +0.60%
Alt #1 18" RCP
Alt #2 18" CMP

80
75
70

72.87 73.27 75.37 75.97 76.57

0 1 2 3 4 5 6

SWS #161, Line 2

Sheet 3/4 7

Street Survey
W2K

Lot 11 | Lot 10, Blk 5 | Lot 9 | LOT 8 | LOT 7 | LOT 6 | LOT 5 | Lot 4

See Line 2

Inlet @ Sta. 3+11.82

CAUTION! 12" Water Line

Constr. 21" SWS

Sta. 3+11.82 Constr. Type 1A Curb Inlet, w=4'2", Top 81.20

Install 35' of 15" Pipe U/S FL 77.74, D/S FL 77.60

18'

10'

8' San. Sewer

Constr. 18" SWS

Sta. 5+46 Constr. Type 1A Curb Inlet, Top 81.53, w=4'2"

℄ 10' Util. Easmt

21.82'

Sta. 7+28 Constr. Type 1A Curb Inlet w=8'2", Top 81.00

Install 35' of 15" Pipe U/S FL 77.56, D/S FL 77.13

6.18'

LOCKWOOD

8" Water

31'

60' R/W

Constr. Type 1A Curb Inlet w=4'2", Top 81.20

CAUTION! 8" Water Line

Constr. Type 1A Curb Inlet w=8'2", Top 81.00

CAUTION! 8" WATER LINE

SCALE: 1"=20' HOR
1"=5' VERT.

GOLD

37' B/B

66' R/W

Lot 11, Blk 6 | Lot 12 | Lot 13 | Lot 14 | Lot 15 | Lot 16 | Lot 17

LINE 2A

Sta. 2+11.82 Type 1-A Curb Inlet w=4'2" See Sheet 3
Top 81.00

8" San. Sewer FL 71.65

Sta. 3+45 Constr. Type 1-A Curb Inlet w=4'2"
Top 81.20

Sta. 5+46 Constr. Type 1A Curb Inlet
Top 81.53 w=4'2"

Sta. 7+28 Constr. Type 1-A Curb Inlet w=8'2"
Top 81.00

Proposed Top of Curb

Ground Line

Proposed Top of Curb

Ground Line

85 | 80 | 75 | 70

74.57

75.10
75.35

74.21

74.88
15" in 77.13

36" Out 73.32

131.99'
131.59' SWS @ +0.40%
Alt. #1 21" RCP
Alt. #2 21" CMP

383'
383' SWS @ +0.40%
Alt. #1 18" RCP
Alt #2 18" CMP

2 | 74.92 | 3 | 75.57 | 4 | 75.97 | 5 | 76.37 | 6 | 76.77 | 7

SWS #161, Line 2A Sheet 4/4 7