NEWMARKET V ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

DRAINAGE PLAN

SCALE: 1" = 100'

NOTE:

Minimum Pad = 167.4 City Datum or 1354.8 NGVD
Total inflow, Q, into the detention pond is based upon a fully developed basin.

The 7'x 2.5' RCB can only hand a portion of the total flow down the Maize Rd. ditch. Currently the rest of the flow is diverted to the west where it overtops 29th Street North.

New Market V drainage plan meets the requirements of the Cadillac Lake Drainage Study dated August 2006.

Property is located within a FEMA Flood Zone A.

BFE = ELEVATION: 164.5 CITY DATUM
1351.9 N.G.V.D.

*Once a final wetland determination has been done on the property to the west, then the ditch slopes can be adjusted accordingly.

** Total Drainage Area = 670 Acres which drains to 10'x3 & 7'x 2.5' RCB's. Flow Greater Than 65 CFS Will Drain West From The 7'x 2.5' Box Into The 10'x 3' Box.

All Elevations in NGVD.

Elevations of Ditch Along West Side of Property shall be such to meet the requirements of the U.S. Corps of Engineers Permit.

Box Culvert Along Maize Rd. will be installed to meet the requirements of City of Wichita, Traffic Engineering Department.

BENCHMARKS ⊕ BM

BM #2
CITY OF WICHITA BM DISC 63.4' WNW OF NE COR., SEC. 6, T27S, R1W

ELEVATION: 161.92 CITY DATUM
1349.32 N.G.V.D.

BM #6
CHISELED "d" ON TOP BACK CURB, W. CURB LINE OF MAIZE RD. AT BEGINNING OF CURB ± 1/4 MILE S. OF 29TH ST. N.

ELEVATION: 164.52 CITY DATUM
1351.92 N.G.V.D.

10'x 3' RCB To Be Constructed By Others.
**Drainage Area = 486 Ac.
7'x 2.5' RCB Structure
Q100 Total = 246.18 CFS
Q100 = 116.94 CFS Diverted Down East Ditch.
Q100 = 129.24 CFS Through 10'x 3' RCB.

Future Connection Location

Slope Drain, Location To Be Determine On Site Specific Plans.

Total Qin = 438.57 CFS

Undisturbed Wetland Area

RESERVE A

Proposed 5000 GPM Pump Station Location

Slope Drain, Location To Be Determined On Site Specific Plan.

Proposed Pond
Pond Bottom= 1336.0
Static Elev. = 1340.20
HW100 = 1352.67
Q100 = 195.43 CFS

20' Utility & Drainage Easement

Minimum 36" RCP or Equal

Approx. Location of Driveway 1 Entrance/Exit. Exact Location To Be Determined On Site Specific Plan.

50' Utility & Drainage Easement

Proposed 50' Drainage Reserve

100 YR. Overflow and Pond Discharge

Approx. Location of Driveway Entrance/Exit. Exact Location To Be Determined On Site Specific Plan.

20' Utility Easement

Proposed Ditch Liner

30" RCP Conc.

℄ Right of Way Easement (Film 1967, Page 1001)

Asphalt BM #5

Edge of Asphalt Road

℄ MAIZE ROAD = SECTION LINE

ACCESS CONTROL EXCEPT 3 OPENINGS

SE Cor. N 1/2, NE 1/4 Sec. 6, T27S, R1W No Monument Found

600'- 7' x 2.5' RCB Structure or Equal Area Inlets to be determined on site specific plan.

Drainage Ditch @ 0.2% slope or less. Assumed 5' flat bottom ditch to be determined during design

Edge of Water

Existing Flow Path

Drainage Ditch @ 0.2% slope or less Assumed 5' flat bottom ditch to be determined during design

Ditch Liner

Asphalt Shoulder

Ret. Wall

Asphalt Approach

℄ Elev. RCB = 1346.93

℄ Elev. RCB = 1346.84

North 1/4 Corner Sec. 6, Twp. 27S, R1W Found 6"X6" Limestone w/ Iron Pipe on West side

10'x 3' RCB To Be Constructed By Others.
**Drainage Area = 670 Ac.
7'x 2.5' RCB Structure
Q100 = 272.44 CFS

**Drainage Area = 670 Ac.
7'x 2.5' RCB Structure
Q100 = 65 CFS

℄ 29TH STREET NORTH = SECTION LINE

30' Roadway Easement (R.D. Book 2, Page 390)

Gravel Road

88.88' Opening Right In/ Right Out Only

200.00' C.A.C.

1042.18'

200.95' C.A.C.

OWNER:
JEFF BANNON AUCTION AND REALTY, INC.
ZONING: L.C.

OWNER:
JOHN C. ROBERTS JR. & AUBREY A. ROBERTS
ZONED: SF-20

OWNER:
BRUCE A. & ESTHER L. PEARSON
ZONED: SF-5

OWNER:
WILLIAM R. & JUNE O. PRACHT
ZONED: SF-20

OWNER:
LEO M. RINK REVOCABLE TRUST & VIVIAN L. RINK REVOCABLE TRUST
ZONED: SF-20

NE Cor. Sec. 6 T27S, R1W Found #4 Bar w/ Moehring Cap

Existing 20' Utility Easement — 25' — 25'

Existing Slope on Target Property Slope Varies

Vegetated Slope With Erosion Control Blanket

Compacted Backfill See Site Specific Plan for Details.

Existing Wetland Area To Remain Undisturbed, Except For Driveway Entrances.

SECTION A-A DETAIL

25' — 5' — 5' — 15'

Proposed Slope on New Market V Property

Vegetated Slope With Erosion Control Blanket

Compacted Backfill See Site Specific Plan for Details.

5' Flat Bottom Ditch At 0.2% or Less.

Existing Slope on Bannon Property

SECTION B-B DETAIL

LEGEND

- Sign
- Flow Arrow- Very Low Flows
- Flowline Of Ditch
- Flow Arrow- Normal Flows
- Existing Flow Path

R1W
29TH STREET NORTH
T27S
119TH STREET WEST
MAIZE ROAD
PROJECT AREA
21ST STREET NORTH

VICINITY MAP

REVISED: 12-11-07
REVISED: 1-07-08

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316-262-2691 • FAX 316-262-3003

Saved 01-07-2008 11:45:10 AM by SRB
Plot Scale 1:100 01-07-2008 11:45:12 AM by SRB
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