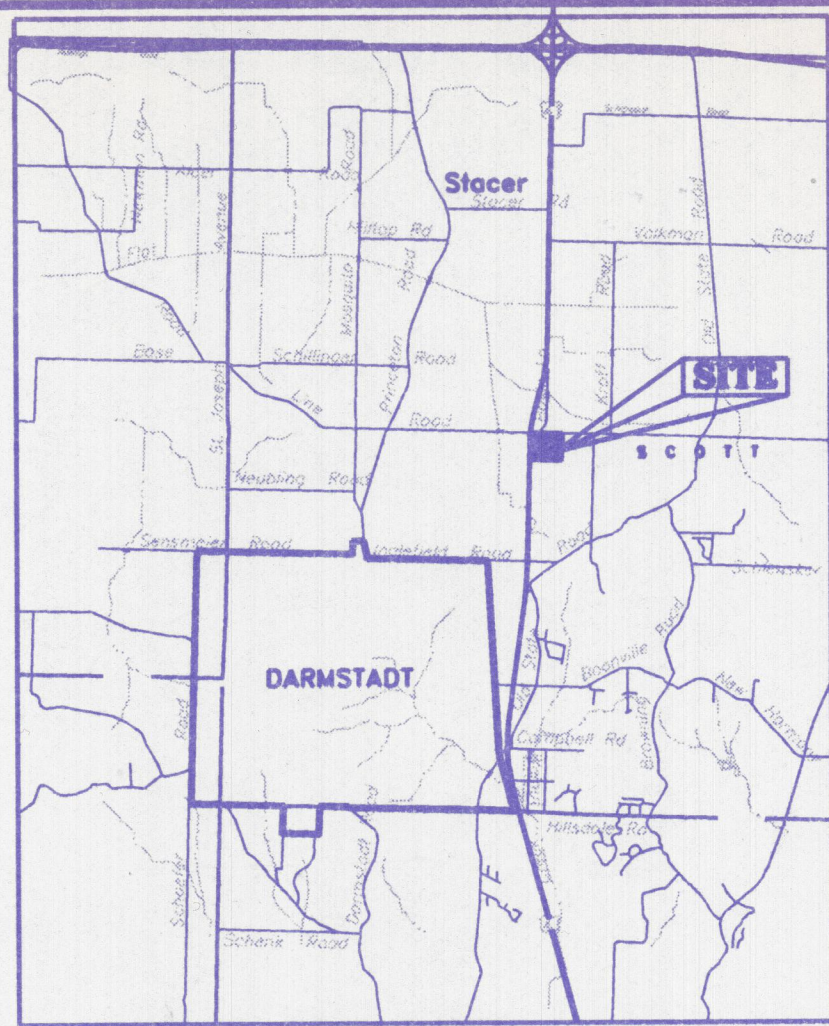


# BASELINE PARK DRAINAGE PLAN



LOCATION MAP  
KNIGHT TWP.  
VANDERBURGH CO.  
SEC. 5, T5S, R10 W

### HYDRAULIC SUMMARY

Q = c i a

#### NORTH REACH

c = 0.35  
i = 2.50 IN/HR  
a = 10.6 Ac  
Q = 9.27 CFS (10 year allow outflow)  
dev c = 0.70

Storage Req'd. 25 YR 0.79 Ac/Ft  
100 YR 1.07 Ac/Ft

#### SOUTH REACH

c = 0.35  
i = 1.9 IN/HR  
a = 31 Ac  
Q = 20.65 CFS (10 year allow outflow)  
dev c = 0.70

Storage Req'd. 25 YR 2.72 Ac/Ft  
100 YR 3.63 Ac/Ft

#### TOTALS

Req'd. Storage  
10/25 Analysis 3.51 Ac/Ft  
10/100 Analysis 4.70 Ac/Ft

Available Storage		
Elev. 438.50 (pool)	to 439.00	52,653 CF
Elev. 439.00	to 440.00	57,756 CF
Elev. 440.00	to 441.00	62,947 CF
Elev. 441.00	to 442.00	68,238 CF
		215,901 CF
		(4.95 Ac/Ft)

Curve Data  
of Highway  
Line "A-A"  
Δ = 15'49" Rt.  
D = 00'48"  
T = 994.9'  
L = 1977.1'  
E = 68.8'

OWNER:  
RALPH R. &  
IMOGENE REXING  
300 E. BASELINE RD.  
EVANSVILLE, IN 47711  
9-36-9

OWNER:  
FOUR S PROPERTIES LLC  
1015 E. COLUMBIA ST  
EVANSVILLE, IN 47711  
9-36-7

OWNER:  
RICHARD W. &  
REBECCA BENGERT  
15945 BOYLE LN.  
EVANSVILLE, IN 47711  
9-37-24

OWNER:  
JAMES H. &  
ANNA MAE CROFT  
606 E. BASELINE RD.  
EVANSVILLE, IN 47711  
9-37-13

OWNER:  
RUSSEL HOWARD  
P.O. BOX 456  
EFFINGHAM, IL 62401  
9-37-7

OWNER:  
HELEN TOFFELMIRE SHEPHERD  
5301 EDEN DR  
EVANSVILLE, IN 47715  
9-37-19

OWNER:  
AZTECA MILLING  
P.O. BOX 23550  
EVANSVILLE IN 47724  
9-60-22

OWNER:  
AZTECA MILLING  
P.O. BOX 23550  
EVANSVILLE IN 47724  
9-60-23

OWNER:  
SOUTHERN INDIANA PROPERTIES  
P.O. BOX 20006  
HWY 41 NORTH  
EVANSVILLE, IN 47708  
9-60-11

OWNER:  
MASEL KALLENBACH  
421 WATER ST.  
NEWBURGH, IN 47630  
9-61-25

OWNER:  
HAROLD E. & DELORES  
STECKLER ET AL  
2112 ADLER RD.  
(PECK RD)  
EVANSVILLE, IN 47711  
9-61-3

OWNER:  
HAROLD E. & DELORES  
STECKLER ET AL  
2112 ADLER RD.  
(PECK RD)  
EVANSVILLE, IN 47711  
9-61-3

### GENERAL NOTES:

- The Storm Drainage Plan Shown Hereon & Accompanying Report Are Final In That It Establishes The Storm Drainage Facilities that Will be Constructed as Part of This Development at the Onset of Construction. These Detention Facilities will Serve the Entire Subdivision. The Conditions, Requirements & Commitments Associated With This Basin Are Further Described in The Accompanying Report & As Stated Hereon.
- The Design Format, Requirements, and Parameters Set Forth in This Preliminary Drainage Plan and The Accompanying Report are Intended To Be A Final Drainage Plan Presented To The Drainage Board For Approval Prior to Construction of This Development.
- Subsequent to Completion of This Drainage Improvement Building permits and Other Site Improvement Permits Should be Issued Without the Necessity for Additional Drainage Consideration.
- Construction of Buildings, Parking Lots, and Other Extensive Impervious Surfaces Shall Commence Only After the Completion of A Fully Operational Drainage System in Compliance With the Approved Final Drainage Plan For This Development and The Formal Filing of An Erosion Control Plan to the Appropriate Agencies.
- The Road Extension Shown Hereon As Neeley Street & Craig Street are Currently Being Designed. Tentative Locations of Storm Inlets & Storm Sewer Routing are Shown Hereon For Review.
- Flood Protection Grades For Each are Not Req'd., For No Portion of The Site Falls within The 100 Year Flood Zone A.
- Erosion Control For Ditches & Basins:  
Slopes if 0% to 2% Shall be Muted and Seeded Within 45 Days of Disturbance.  
Slopes of 2% to 8% Shall be Sodded or Stabilized With an Erosion Control Mat at Completion of Ditch Grading.  
Slopes Over 8% Require Riprap or Other Approve Stabilization at Completion of Ditch Grading if The Total Ditch Length at That Point is Greater Than 100 Feet.
- An Erosion Control Plan Will be Developed For The Subdivision and Submitted to Soil & Water Conservation District For Review Along With Proper Notification to IDEM.

### GENERAL STORM SEWER SPECIFICATIONS

All Materials Used Shall be in Accordance With The Vanderburgh County Drainage Ordinance Dated October 1994.

Storm Sewer Pipe May be Plastic or Concrete As Approved by Owner. Plastic Pipe Shall be ADS-N-12 Or Equal. No Plastic End Treatment Will be Allowed. Concrete End Sections Must be Used With Plastic Pipe. All Pipe Must Meet The Manufacturers Recommendations For Minimum & Maximum Cover. In Areas Where Cover Does Not Fall Within The Manufacturers Recommendations, Concrete Pipe Must be Used.

High Density Polyethylene Type S (HDPE) Pipe Shall be Manufactured in Accordance With ASTM M294. Pipe Shall Have Minimum Cell Classification of D 324420C in Accordance With ASTM D3350.

HDPE Pipe Shall Possess Male & Female Pipe Ends Which Allow for The Construction of Overlapping, Gasketed Pipe Joints in Conformance With ASTM M294.

Reinforced Concrete Pipe Shall be Class III, IV or V in Accordance With ASTM C76 Latest Edition.

A Minimum "B" Wall Thickness is Required. Joints Shall be Provided With A Groove On The Spigot For Placement of A Rubber Gasket in Accordance With ASTM C443.

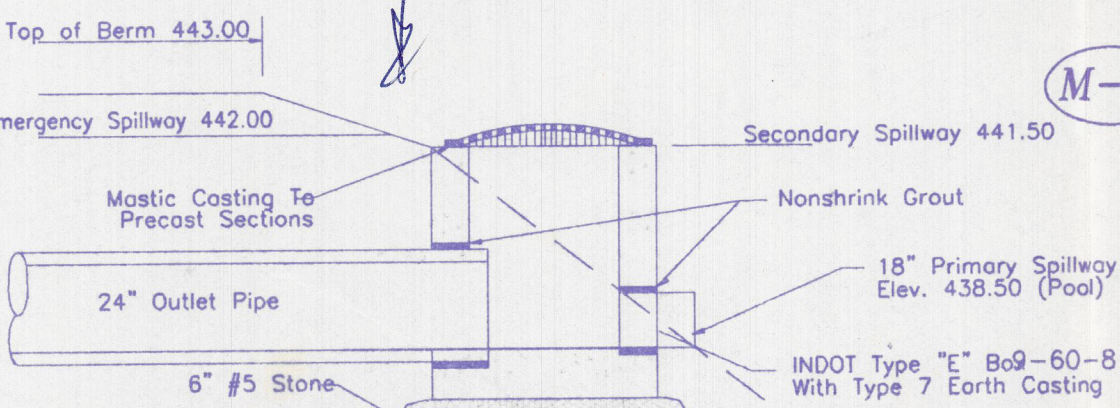
All Manholes & Inlet Boxes Shall be Constructed As Shown Hereon. All Parking Lot Inlets and Area Drains Shall be Precast Boxes. As per the INDOT Standard Specifications, latest revision.

All Cleanouts for the Roof Drains Shall be Constructed as Shown Hereon.

R/W Curve Data  
Δ = 04'04"15" Rt.  
D = 00'48"37"  
R = 7070.97'  
T = 251.31'  
L = 502.41'  
E = 4.46'

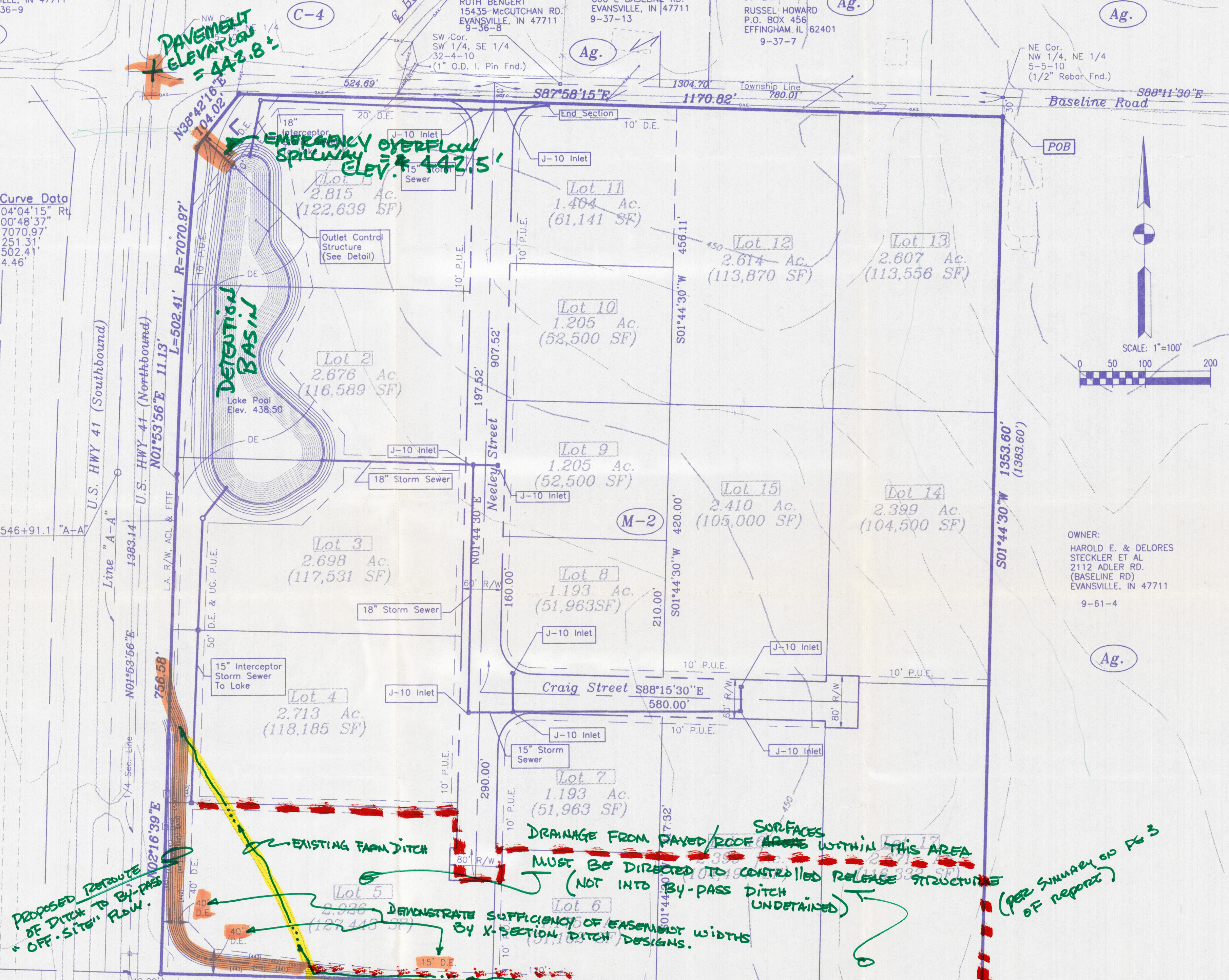
P.C. 546+91.1 "A-A"

SW Cor.  
NE 1/4  
5-5-10



PRECAST OUTLET CONTROL STRUCTURE

Not To Scale



PAVEMENT ELEVATION = 442.8'

EMERGENCY OVERFLOW SPILLWAY ELEV. = 442.5'

DETECTION BASIN

Proposed Route of Ditch to BY-PASS "OFF-SITE" FLOW.

EXISTING FARM DITCH

DRAINAGE FROM PAVED/ROOF SURFACES WITHIN THIS AREA MUST BE DIRECTED TO CONTROLLED RELEASE STRUCTURE (NOT INTO BY-PASS DITCH UNOBTAINED)

DEMONSTRATE SUFFICIENCY OF EASEMENT WIDTHS BY X-SECTION DITCH DESIGNS.

SURFACES WITHIN THIS AREA MUST BE DIRECTED TO CONTROLLED RELEASE STRUCTURE (PER SUMMARY OF PG 3 OF REPORT)

Report References to 442.5' @ 442.5'

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Baseline Park