

- EXISTING LEGEND**
- Power Pole
 - Light Pole
 - Utility Pole
 - Guy Wire
 - Undergroud Telephone Junction Box
 - Gas Valve
 - Water Valve
 - Water Meter
 - Storm Sewer Manhole
 - Sanitary Sewer Manhole
 - Fire Hydrant
 - Area Drain
 - Curb Inlet
 - Undergroud Telephone
 - Overhead Telephone
 - Undergroud Electric
 - Overhead Electric
 - Undergroud Water
 - Undergroud Gas
 - Fence
 - Center Line
 - Property Boundary Line
 - Easement Line
 - Right-of-way Line
 - Railroad Track
 - Record Dimension
 - Measured Dimension
 - Calculated Dimension

CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
CALL TOLL FREE
- INDIANA UNDERGROUND -

PLAN SCALE: 1"=100'
 DATE: 02/28/06
 DRAWN BY: AWH
 CHK'D BY: AWH
 JOB NO. IN2005.0965

WOODWARD COMMERCIAL REALTY
 4763 ROSEBUD LANE
 NEWBURGH INDIANA 47630

AMERICAN CONSULTING, INC.
 7260 SHADELAND STATION
 INDIANAPOLIS, IN 46256-3957
 (317) 558-5888 FAX: (317) 543-0270
 CONSULTING ARCHITECTS AND ENGINEERS

ANTHONY W. HALSEY
 REGISTERED
 No. PE 10606108
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

CERTIFIED BY

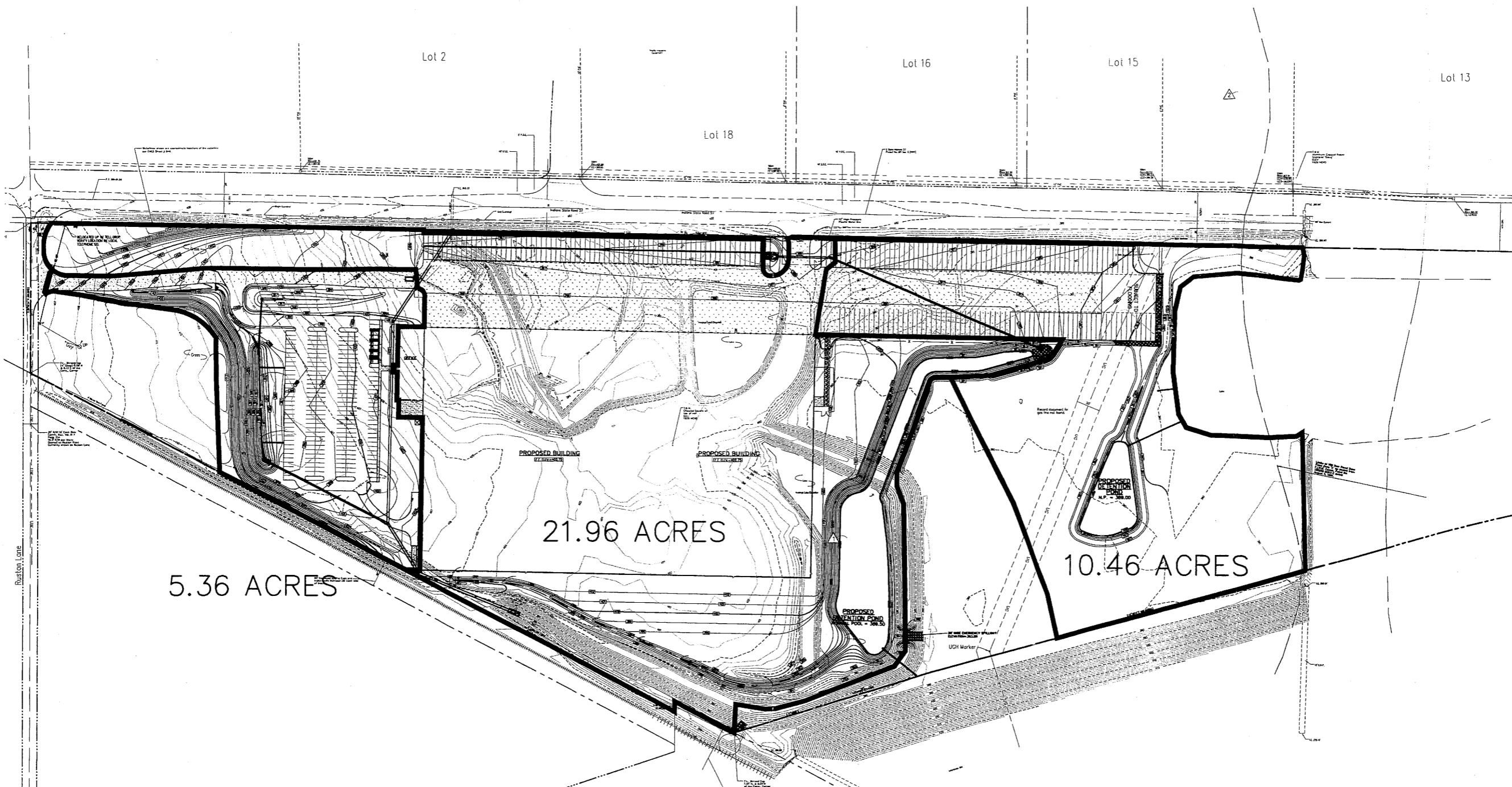
SHOE CARNIVAL DISTRIBUTION CENTER
 VANDERBURGH INDUSTRIAL PARK
 VANDERBURGH, INDIANA

DATE:	02/28/06
DRAWN BY:	AWH
CHK'D BY:	AWH
JOB NO.	IN2005.0965

REVISIONS	

SHEET NO. _____
 OF _____

App D



5.36 ACRES

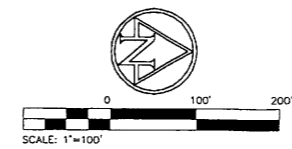
21.96 ACRES

10.46 ACRES

- EXISTING LEGEND**
- ⊕ Power Pole
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 - ⊕ Fences
 - ⊕ Center Line
 - ⊕ Property Boundary Line
 - ⊕ Easement Line
 - ⊕ Right-of-way Line
 - ⊕ Railroad Track
 - (R) Record Dimension
 - (M) Measured Dimension
 - (C) Calculated Dimension

NOTE:
FOR GENERAL GRADING NOTES
SEE SHEET C3.1.

- PROPOSED GRADING LEGEND**
- M.E. MATCH EXISTING
 - EP EDGE OF PAVEMENT
 - BC BOTTOM OF CURB
 - TC TOP OF CURB
 - CONTOURS
 - FLOW LINE



WOODWARD COMMERCIAL REALTY
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4763 ROSEBUD LANE
INDIANA 47630

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JOHN A. LASIENK
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STATE OF
INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY

PROPOSED DRAINAGE CONDITIONS MAP

SHOE CARNIVAL DISTRIBUTION CENTER
VANDERBURGH INDUSTRIAL PARK
VANDERBURGH,
INDIANA

DATE: 02/28/06
DRAWN BY: JMS
CHK'D BY: AWH
JOB NO. IN2005.0985

REVISIONS

△ GEN. REV.	03-22-06
△ GEN. REV.	04-26-06
△ SURVEYOR/PIPELINE	08-29-06

SHEET NO.
PRO
OF

APP F

PROPOSED STORM SEWER SYSTEM
 STORM SEWER DESIGN TABLE - RATIONAL METHOD
 JOB TITLE Shoe Carnival Distribution Center
 JOB # IN2005-0985
 DATE 09/05/06

MANNINGS n = 0.013
 10 YEAR STORM

STR.	TO STR.	LENGTH (ft)	c	AREA (acres)	cA	CUM. cA	Tc (min)	Tcum (min)	i (in/hr)	Q (CFS)	PIPE DIAMETER (inches)	PIPE SLOPE (%)	PIPE CAPACITY (cfs)	VELOCITY (ft/sec)	TRAVEL TIME (min)	RIM		INVERT		U.S. COVER (ft)	D.S. COVER (ft)
																ELEV. U.S. (ft)	ELEV. D.S. (ft)	ELEV. U.S. (ft)	ELEV. D.S. (ft)		
1	DITCH 1	102	0.45	0.91	0.41	0.41	5.00	5.00	6.98	2.84	15	0.50	4.57	3.72	0.46	395.00	-	391.99	391.48	1.57	#VALUE!
2	* 5	283	0.85	0.00	0.00	0.00	5.00	5.00	6.98	0.00	12	0.31	1.98	2.53	1.87	-	401.75	389.63	388.75	#VALUE!	11.83
3	# 4	222	0.85	0.00	0.00	0.00	5.00	5.00	6.98	0.00	48	0.20	64.24	5.11	0.72	398.42	398.40	390.03	389.58	3.98	4.40
4	# 5	415	0.85	0.00	0.00	0.00	5.00	5.72	6.71	0.00	48	0.20	64.24	5.11	1.35	398.40	401.75	389.58	388.75	4.40	8.58
5	# 6	120	0.85	0.00	0.00	0.00	5.00	7.08	6.26	0.00	48	0.20	64.24	5.11	0.39	401.75	401.75	388.75	388.51	8.58	8.82
6	* RR R/W	215	0.85	0.00	0.00	0.00	5.00	7.47	6.14	0.00	54	0.15	74.88	4.71	0.76	401.75	-	388.51	388.20	8.28	#VALUE!
7	9	120	0.85	9.57	8.13	8.13	12.00	12.00	5.06	41.16	36	0.47	45.53	6.44	0.31	-	-	393.30	392.74	#VALUE!	#VALUE!
8	* RR R/W	88	0.85	0.00	0.00	0.00	5.00	5.00	6.98	0.00	24	0.50	16.00	5.09	0.29	397.80	-	389.50	389.06	6.05	#VALUE!
9	POND	473	0.85	0.00	0.00	8.13	12.00	12.31	5.00	40.68	36	0.47	45.73	6.47	1.22	-	-	392.74	390.52	#VALUE!	#VALUE!
11	* EX POND	88	0.85	0.00	0.00	0.00	5.00	5.00	6.98	0.00	24	0.50	16.00	5.09	0.29	-	-	389.50	389.06	#VALUE!	#VALUE!

* Pipe was sized using ICPR

Pipe contains no onsite flow. It conveys flow from offsite and was sized according to the offsite upstream structure