

- Note:**
- All pipe lengths are measured center of structure to center of structure, to the nearest foot, except pipes ending in flared end sections. Pipes ending in flared end sections shall be measured to the end of the pipe.
 - Design pipe slopes are calculated from the center of structure to the center of structure, or end of pipe for flared end sections. Construction pipe slopes may vary slightly if the structure cross slope does not match the design pipe slope. Flared end section slopes shall match design pipe slopes.
 - All storm, sanitary, and lateral pipes under and within 5 feet of a roadway or under a sidewalk shall have compacted sand backfill. All storm sewer pipes shall be RCP unless otherwise approved by the engineer. All sanitary sewer pipes shall with local sanitary sewer utility standards.
 - Any sanitary sewer trunk lines or lateral pipes with less than 3-foot of cover above the top of the pipe shall be Ductile Iron Pipe Class 52 Concrete Lined and Asphalt Coated within in public utility easements and right-of-ways. See Sanitary Sewer Details Sheet C-21.
 - Any sanitary sewer trunk lines installed within nonvirgin fill material shall be backfilled with engineered fill.
 - Bench Mark - Reference Bench Mark - Vanderburgh STC Survey Disk at the entrance to the Vanderburgh Sheriff's Training Center on Kansas Rd. Elev. = 377.62'
 - 100 Year Flood Zone - Lot #1 & #175 within Windham Hill Subdivision & in the 100-year flood zone according to the F.L.R.M. Parcel Number 1802640025 C for Vanderburgh County, Indiana. The 100-year flood elevation is 385.00. The Flood Protection Grade (FPG) for these lots is elevation 387.00.

CURVE DATA TABLE

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C1	01°58'32"	S 86°54'18" E	8.62	500.00	17.24	17.24
C2	86°42'43"	S 42°33'41" E	188.84	200.00	302.68	274.61
C3	161°64'45"	S 08°56'03" W	71.51	500.00	142.06	141.58
C4	161°64'45"	N 08°56'03" E	71.51	500.00	142.06	141.58
C5	105°04'44"	S 85°22'18" W	47.46	500.00	94.65	94.50
C6	11°49'48"	N 85°51'50" E	51.80	500.00	103.24	103.05
C7	90°16'08"	S 46°38'40" W	100.47	100.00	157.55	141.75
C8	89°43'52"	S 46°38'40" W	74.65	75.00	117.46	105.82
C9	90°16'08"	N 46°38'40" E	75.35	75.00	118.16	106.31
C10	03°49'21"	S 00°24'05" E	33.37	1000.00	66.72	66.70
C11	03°49'21"	S 00°24'05" E	33.37	1000.00	66.72	66.70

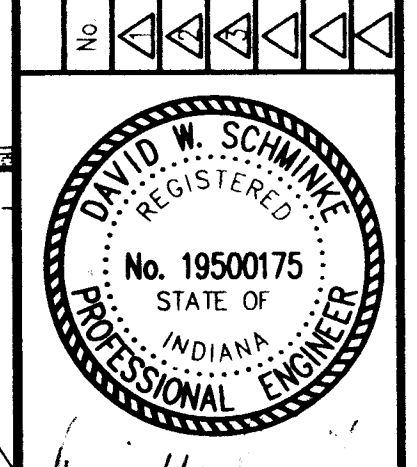
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Written dimensions on these drawings and those presented for construction shall prevail over any dimensions shown on the drawings. All dimensions and conditions on the job and Morley and Associates, Inc. must be notified of any variations from the dimensions and conditions shown by these drawings.

REVISIONS

No.	By	Date	Description
1	JMK	05/03/01	E.M. Updated from 6" to 8"
2	JMK	07/19/01	Corrected 15" MH IE's, Pipe Slopes, Lengths
3	JMK	09/17/01	Revised Swale #1 & 8' SSM Location



Project: Windham Hill Subdivision
 Windham Hill LLC
 Sheet Title: Utility/Drainage Plan
 Scale: 1" = 60'
 Designed By: JMK
 Job Number: 4780-4(J)
 Drawn By: JMK
 Date: 04/19/01
 Checked By: JMK
 Filename: WESTBASE.dwg
 Sheet Number: C-03