

“E”

CURRENT ORDINANCE
WET AND DRY
DETENTION BASIN
PLAN VIEW

VILLAGE OF OSWEGO



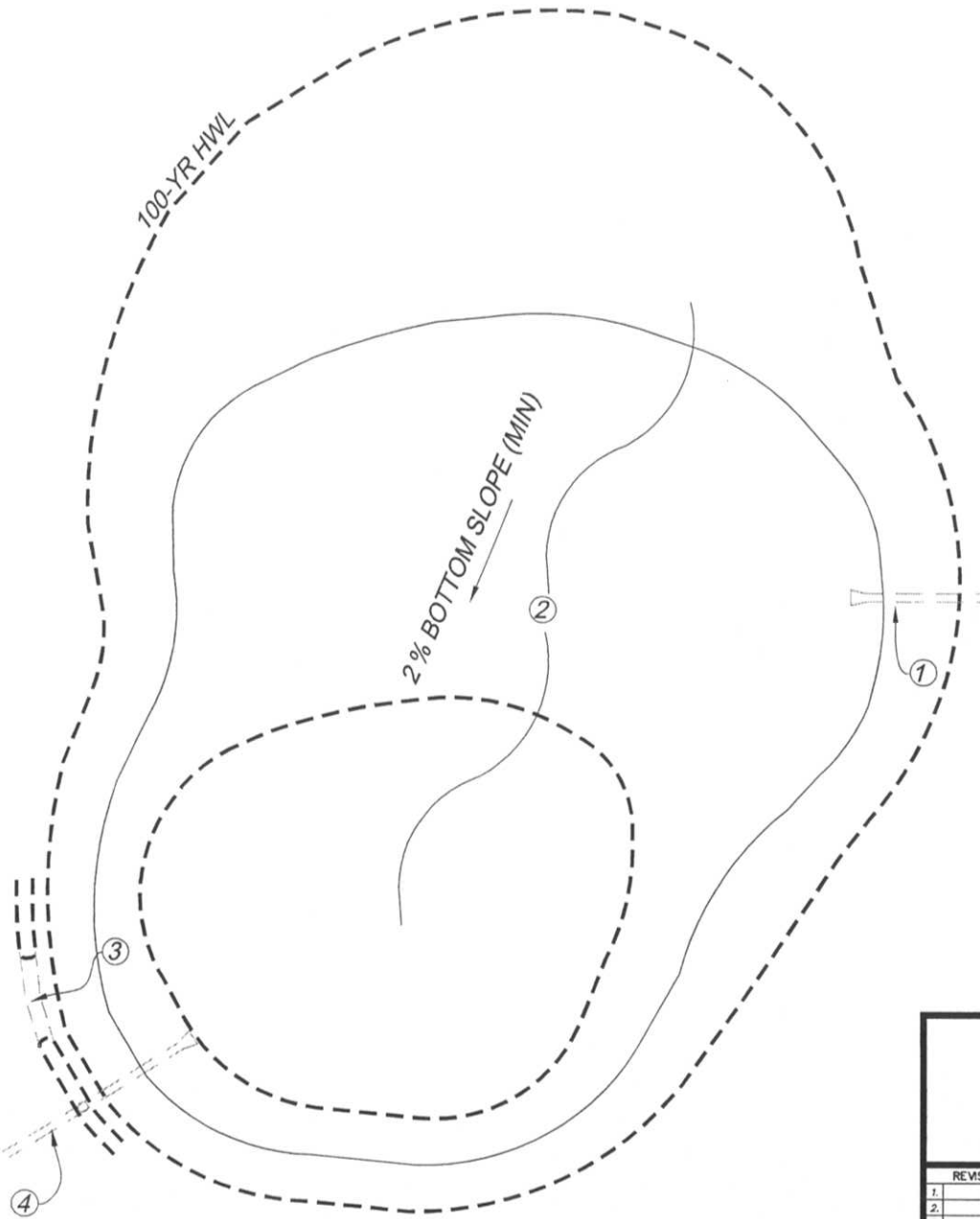
SEC GROUP, INC.
 Smith Engineering Consultants • SEC Automation • SEC Plannir
 759 John Street, Yorkville, IL 60560
 t. 630.553.7500 f. 630.553.7646
 www.secgroupinc.com engineering@secgroupinc.com

COMP. FILE: 070055-Pond-Detail-072507.dwg
 PLOT FILE: STANDARD
 VIEW: DRY-CURRENT

"DRY" DETENTION BASIN PLAN VIEW

NOTES

1. STORM SEWER PIPE - FLOW INTO BASIN.
2. MINIMUM 80 % BOTTOM AREA WITH STANDING WATER FOR NO LONGER THAN 72 HRS FOR 100-YEAR STORM EVENT.
3. EMERGENCY OVERFLOW WEIR.
4. STORM SEWER PIPE - RESTRICTED FLOW OUT OF BASIN.



VILLAGE OF OSWEGO

"DRY" DETENTION BASIN PLAN VIEW CURRENT ORDINANCE

REVISIONS	DRAWN BY:	DATE:	PROJECT NO.
1.	BAL	7/25/07	OSWE 070055
2.	DESIGNED BY:	HORIZ. SCALE:	SHEET NO.
3.		NTS	
4.	CHECKED BY:	VERT. SCALE:	B
5.		NTS	

VILLAGE OF OSWEGO



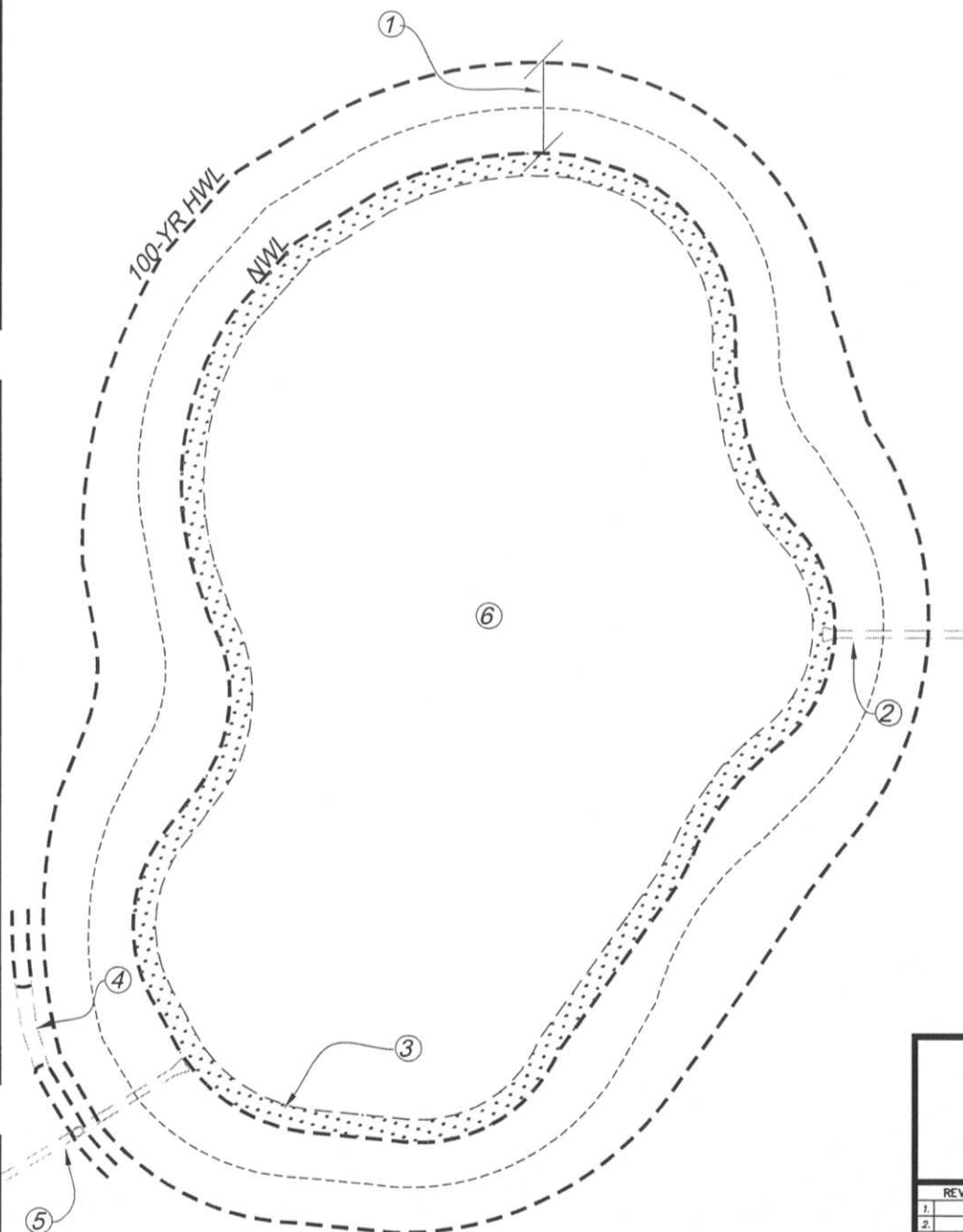
SEC GROUP, INC.
 Smith Engineering Consultants • SEC Automation • SEC Plannir
 759 John Street, Yorkville, IL 60560
 T. 630.553.7560 F. 630.553.7646
 www.secgroupinc.com engineering@secgroupinc.com

COMP. FILE: 070055-Pond-Detail-072507.dwg
 PLOT FILE: STANDARD
 VIEW: Wet-CURRENT

"WET" DETENTION BASIN PLAN VIEW

NOTES

1. RECOMMENDED MAXIMUM ALLOWABLE "BOUNCE" OF 4'. MAXIMUM SIDE SLOPE OF 4:1.
2. STORM SEWER PIPE - FLOW INTO BASIN.
3. 6' WIDE SAFETY SHELF.
4. EMERGENCY OVERFLOW WEIR.
5. STORM SEWER PIPE - RESTRICTED FLOW OUT OF BASIN.
6. AERATION AS REQUIRED BY VILLAGE ENGINEER.



VILLAGE OF OSWEGO

"WET" DETENTION BASIN PLAN VIEW CURRENT ORDINANCE

REVISIONS	DRAWN BY:	DATE:	PROJECT NO.
1.	BAL	7/25/07	OSWE 070055
2.	DESIGNED BY:	HORIZ. SCALE:	SHEET NO.
3.		NTS	
4.	CHECKED BY:	VERT. SCALE:	B
5.		NTS	

COMP. FILE: 070055-Pond-DetInf-072507.dwg
 PLOT FILE: STANDARD
 VIEW: DRY-CURRENT

VILLAGE OF OSWEGO

"DRY" DETENTION BASIN CROSS-SECTION

NOTES (N)

1. MINIMUM 80% BOTTOM AREA WITH STANDING WATER FOR NO LONGER THAN 72 HRS FOR 100-YEAR STORM EVENT.
2. STORM SEWER PIPE - RESTRICTED FLOW OUT OF BASIN.

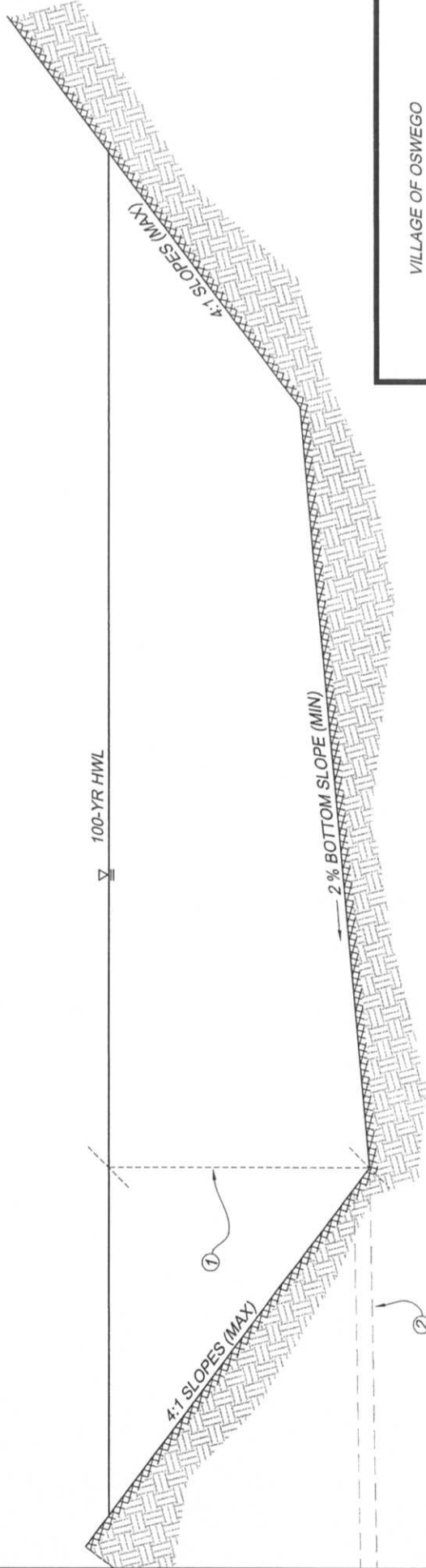
LEGEND



MINIMUM 6" RESPREAD
TOPSOIL



OTHER ONSITE SOILS



VILLAGE OF OSWEGO

"DRY" DETENTION BASIN CROSS-SECTION
CURRENT ORDINANCE

REVISIONS	DRAWN BY:	DATE:	PROJECT NO.:
1.	BAL	7/25/07	05ME-070055
2.			SHEET NO.
3.			
4.			
5.			

A

PROPOSED ORDINANCE
WET AND DRY
DETENTION BASIN
PLAN VIEW AND
CROSS SECTION

VILLAGE OF OSWEGO



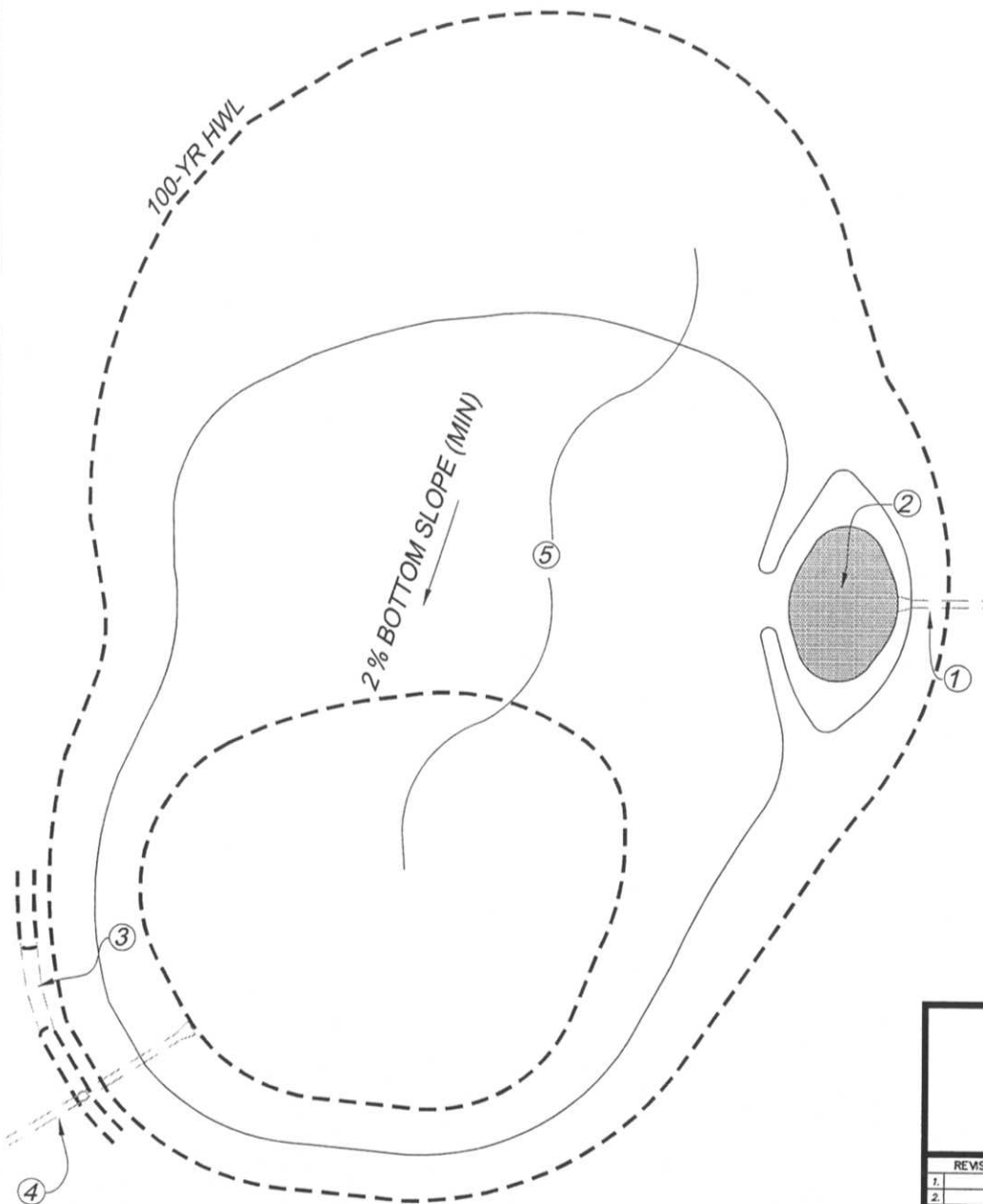
SEC GROUP, INC.
 Smith Engineering Consultants • SEC Automation • SEC Plannir
 759 John Street, Yorkville, IL 60580
 t. 630.553.7560 f. 630.553.7646
 www.secgroupinc.com engineering@secgroupinc.com

COMP. FILE: 070055-Pond-Detail-072507.dwg
 PLOT FILE: STANDARD
 VIEW: DRY-DRAFT

"DRY" DETENTION BASIN PLAN VIEW

NOTES

1. STORM SEWER PIPE - FLOW INTO BASIN.
2. PRETREATMENT BASIN TO TRAP SEDIMENT AND IMPROVE WATER QUALITY.
3. EMERGENCY OVERFLOW WEIR.
4. STORM SEWER PIPE - RESTRICTED FLOW OUT OF BASIN.
5. MINIMUM 80 % BOTTOM AREA WITH STANDING WATER FOR NO LONGER THAN 72 HRS FOR 100-YEAR STORM EVENT. BOTTOM TO BE SEEDED WITH NATIVE DEEP-ROOTED VEGETATION.



VILLAGE OF OSWEGO

"DRY" DETENTION BASIN PLAN VIEW
 DRAFT ORDINANCE

REVISIONS	DRAWN BY:	DATE:	PROJECT NO.
1.	BAL	7/25/07	OSWE 070055
2.	DESIGNED BY:	HORIZ. SCALE:	SHEET NO.
3.		NTS	
4.	CHECKED BY:	VERT. SCALE:	B
5.		NTS	

VILLAGE OF OSWEGO

"DRY" DETENTION BASIN CROSS-SECTION

Illinois Professional Engineer Firm # 184-00011

SEC GROUP, INC.
 Smith Engineering Consultants • SEC Automation • SEC Plannir
 750 John Street, Yorkville, IL 60560
 T. 630.553.7960 F. 630.553.7648
 www.secgroupinc.com engineering@secgroupinc.com

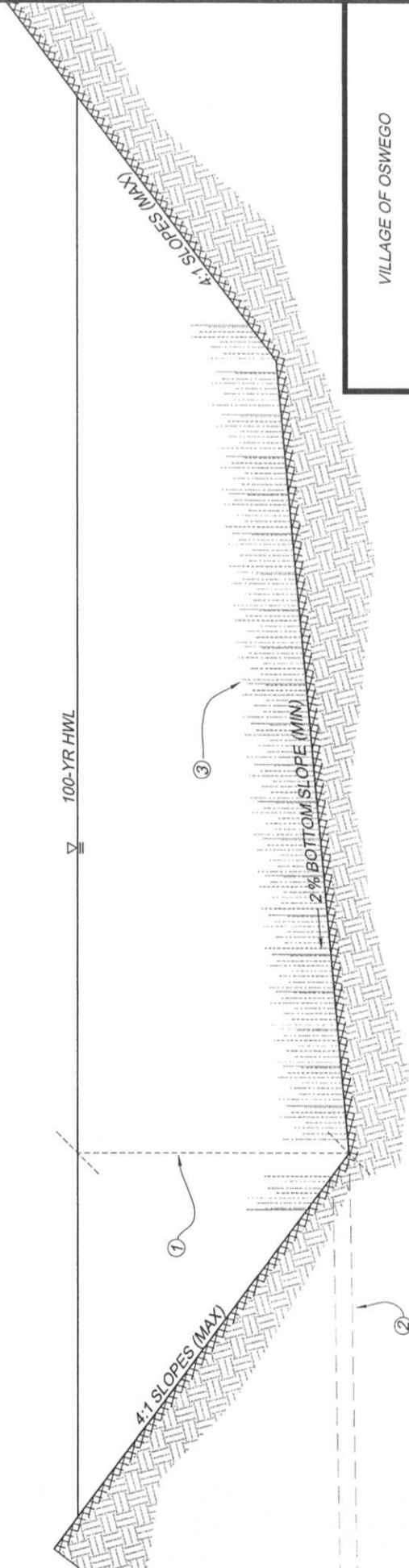
COMP. FILE: 070055-Pond-Detail-072507.dwg
 PLOT FILE: STANDARD
 PLOT: DRY-DRAFT

NOTES #

1. MINIMUM 80 % BOTTOM AREA WITH STANDING WATER FOR NO LONGER THAN 72 HRS FOR 100-YEAR STORM EVENT.
2. STORM SEWER PIPE - RESTRICTED FLOW OUT OF BASIN.
3. NATIVE DEEP-ROOTED VEGETATION

LEGEND

	MINIMUM 6" RESPREAD TOPSOIL
	OTHER ONSITE SOILS



VILLAGE OF OSWEGO
 "DRY" DETENTION BASIN CROSS-SECTION
 DRAFT ORDINANCE

REVISIONS	DRAWN BY:	DATE:	PROJECT NO.:
1	BAL	7/25/07	05HE 070055
2			SHEET NO.
3			
4			
5			

DESIGNED BY:	HORIZ. SCALE:	CHECKED BY:	VERT. SCALE:
	N/S		N/S

A

VILLAGE OF OSWEGO



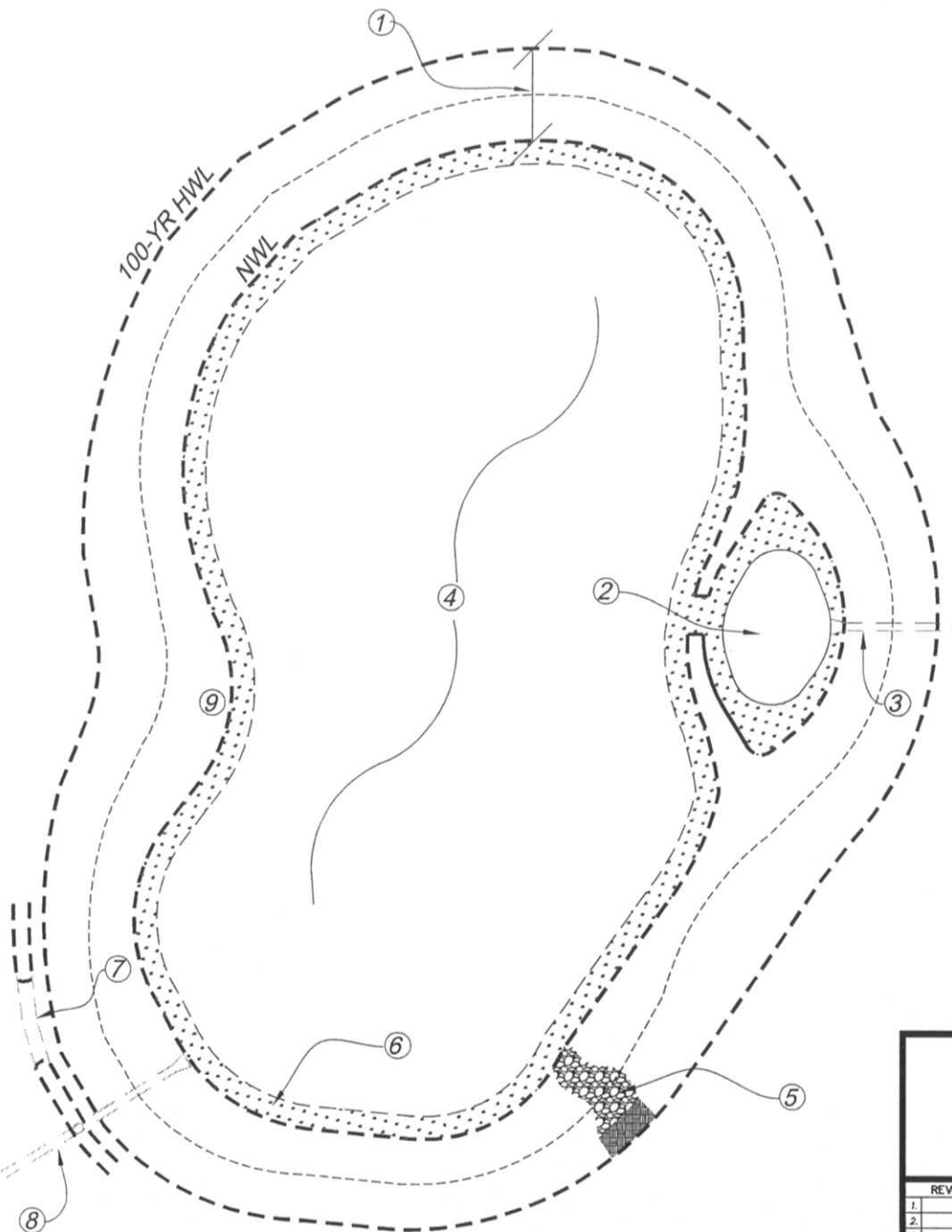
SEC GROUP, INC.
 Smith Engineering Consultants • SEC Automation • SEC Plannir
 759 John Street, Yorkville, IL 60560
 t. 630.553.7560 f. 630.553.7646
 www.secgroupinc.com engineering@secgroupinc.com

COMP. FILE: 070055-Pond-Detail-072507.dwg
 PLOT FILE: STANDARD
 VIEW: Wet-DRAFT

"WET" DETENTION BASIN PLAN VIEW

NOTES

1. RECOMMENDED MAXIMUM ALLOWABLE "BOUNCE" OF 4'. VARYING SIDE SLOPES WITH MAXIMUM BEING 4:1.
2. PRETREATMENT BASIN TO TRAP SEDIMENT.
3. STORM SEWER PIPE - FLOW INTO BASIN.
4. SURFACE AREA OF NORMAL POOL SHOULD BE AT A RATIO OF 25:1 TO THE TRIBUTARY AREA TO ENHANCE FREQUENCY OF "TURNOVER" OF WATER IN POND
5. PREFERRED METHOD OF AERATION SHOULD BE NATURAL APPEARING WATERFALLS, CASCADES OR "BUBBLERS".
6. 10' WIDE SAFETY SHELF WITH EMERGENT PLANTINGS.
7. EMERGENCY OVERFLOW WEIR.
8. STORM SEWER PIPE - RESTRICTED FLOW OUT OF BASIN.
9. SHORELINE STABILIZED WITH NATIVE DEEP-ROOTED PLANTINGS OR REINFORCED TURF MAT.



VILLAGE OF OSWEGO

"WET" DETENTION BASIN PLAN VIEW
 DRAFT ORDINANCE

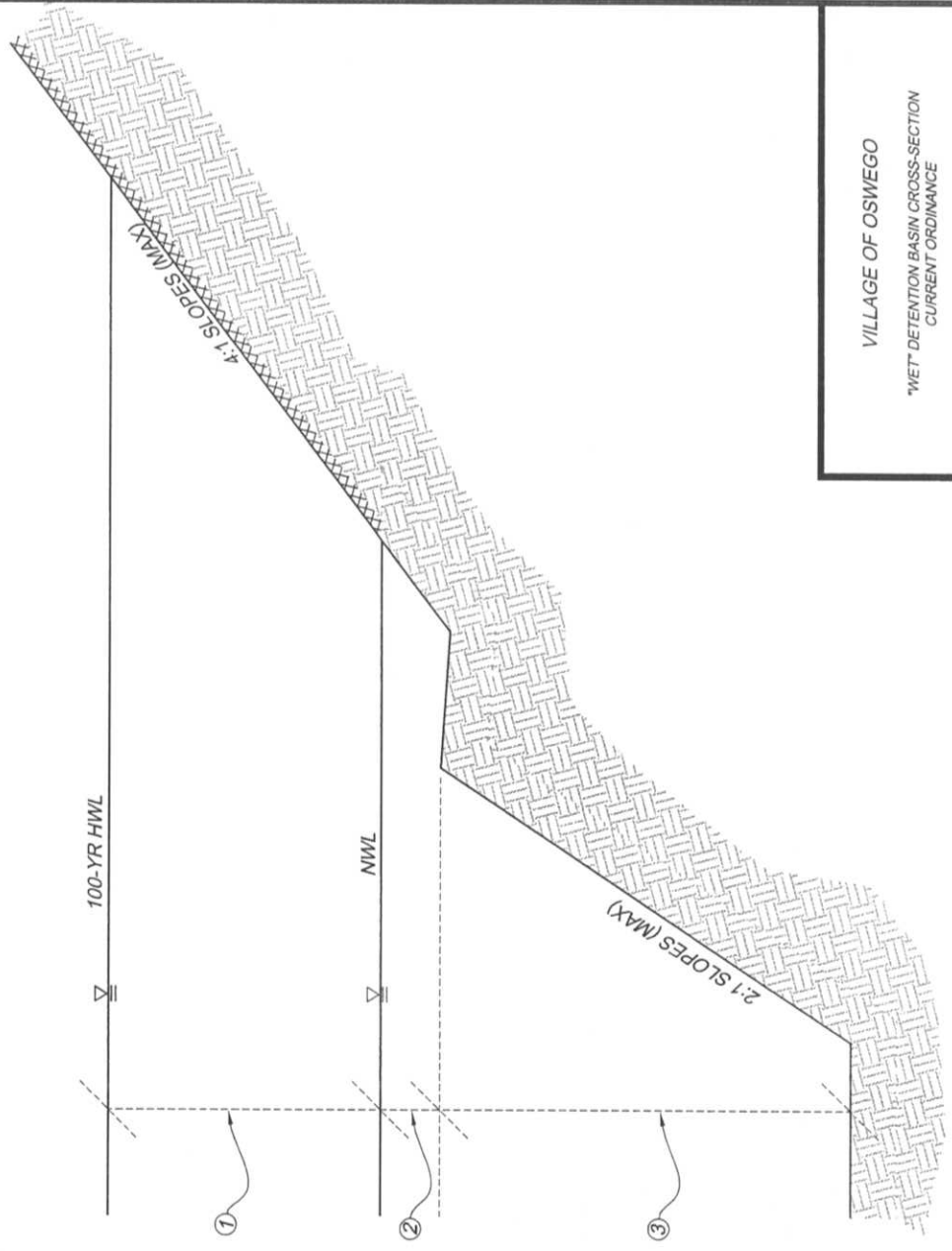
REVISIONS	DRAWN BY:	DATE:	PROJECT NO.
1.	BAL	7/25/07	OSWE 070055
2.	DESIGNED BY:	HORIZ. SCALE:	SHEET NO.
3.		NTS	
4.	CHECKED BY:	VERT. SCALE:	B
5.		NTS	

VILLAGE OF OSWEGO

"WET" DETENTION BASIN CROSS-SECTION

Illinois Professional Engineer Firm # 184-0011
SEC GROUP, INC.
 Smith Engineering Consultants • SEC Automation • SEC Plannir
 759 John Street, Yorkville, IL 60550
 T. 800.553.7560 I. 630.553.7546
 www.secgroupinc.com engineering@secgroupinc.com


COMP. FILE: 070055-Pond-Detail-072507.dwg
 PLOT FILE: STANDARD
 VER: W1-CURRENT



NOTES (4)

1. RECOMMENDED MAXIMUM ALLOWABLE "BOUNCE" OF 4'.
2. SAFETY SHELF LOCATED ONE FOOT BELOW NWL. SHOULD BE A MINIMUM OF 6' WIDE AND BACKPITCHED TOWARDS THE SHORELINE.
3. MINIMUM DEPTH OF 6' BELOW SAFETY SHELF. IF FISH HABITAT IS PROVIDED, MINIMUM OF 10' DEPTH OVER AT LEAST 25% OF BOTTOM AREA.

LEGEND

-  MINIMUM 6" RESPREAD TOPSOIL
-  OTHER ONSITE SOILS

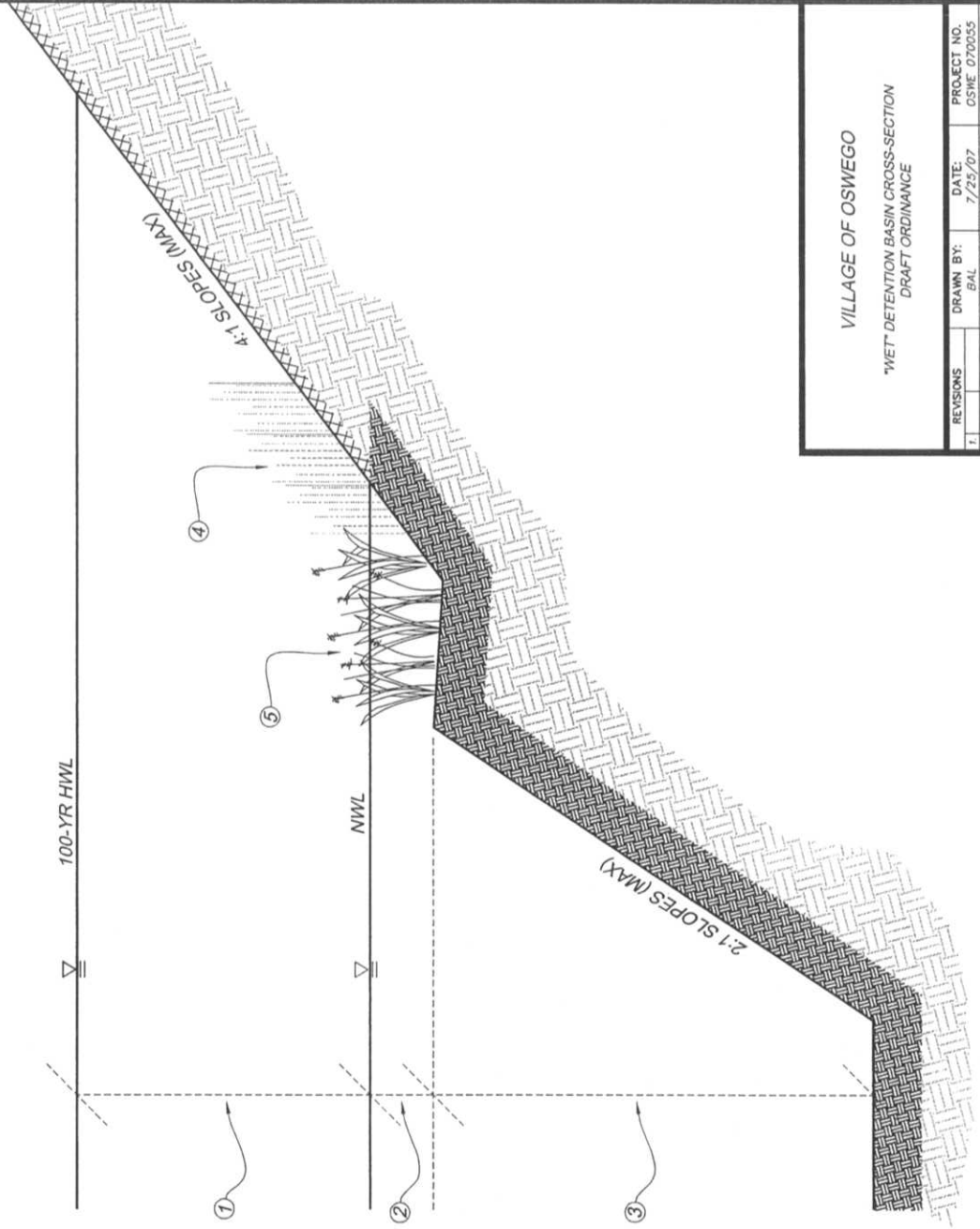
VILLAGE OF OSWEGO
 "WET" DETENTION BASIN CROSS-SECTION
 CURRENT ORDINANCE

REVISIONS	DRAWN BY:	DATE:	PROJECT NO.
1.	gAL	7/25/07	OSME 070055
2.			SHEET NO.
3.	DESIGNED BY:	HORIZ. SCALE:	
4.		N/T	
5.	CHECKED BY:	VERT. SCALE:	A
		N/T	

VILLAGE OF OSWEGO

"WET" DETENTION BASIN CROSS-SECTION

Illinois Professional Engineer Firm # 184-00011
SEC GROUP, INC.
 Smith Engineering Consultants • SEC Automation • SEC Plannir
 759 John Street, Yorkville, IL 60550
 T. 630.553.7960 F. 630.553.7646
 www.secgroupinc.com engineering@secgroupinc.com
 COMP. FILE: 070055-Pond-Detail-072507.dwg
 PLOT FILE: STANDARD
 VER: WRI-DRAFT



NOTES (#)

1. RECOMMENDED MAXIMUM ALLOWABLE "BOUNCE" OF 4'.
2. SAFETY SHELF LOCATED ONE FOOT BELOW NWL BASED ON HIGHEST POINT. SHOULD BE A MINIMUM OF 10' WIDE AND BACKPITCHED TOWARDS THE SHORELINE AT A 2 % SLOPE.
3. MINIMUM DEPTH OF 6' BELOW SAFETY SHELF. IF FISH HABITAT IS PROVIDED, MINIMUM OF 10' DEPTH OVER AT LEAST 25 % OF BOTTOM AREA.
4. SHORELINES PROTECTED WITH DEEP-ROOTED NATIVE PLANTINGS OR REINFORCED TURF MAT.
5. EMERGENT WETLAND PLANTINGS.

LEGEND

 MINIMUM 6" RESPREAD TOPSOIL

 MINIMUM 3' COMPACTED CLAY OR MANUFACTURED LINING SYSTEM

 OTHER ONSITE SOILS

VILLAGE OF OSWEGO
 "WET" DETENTION BASIN CROSS-SECTION
 DRAFT ORDINANCE

REVISIONS	DRAWN BY:	DATE:	PROJECT NO.:
1	BAL	7/25/07	05WE 070055
2			SHEET NO.
3			
4			
5			

NATURALIZED
DETENTION BASIN
PLAN VIEW AND
CROSS SECTION

VILLAGE OF OSWEGO



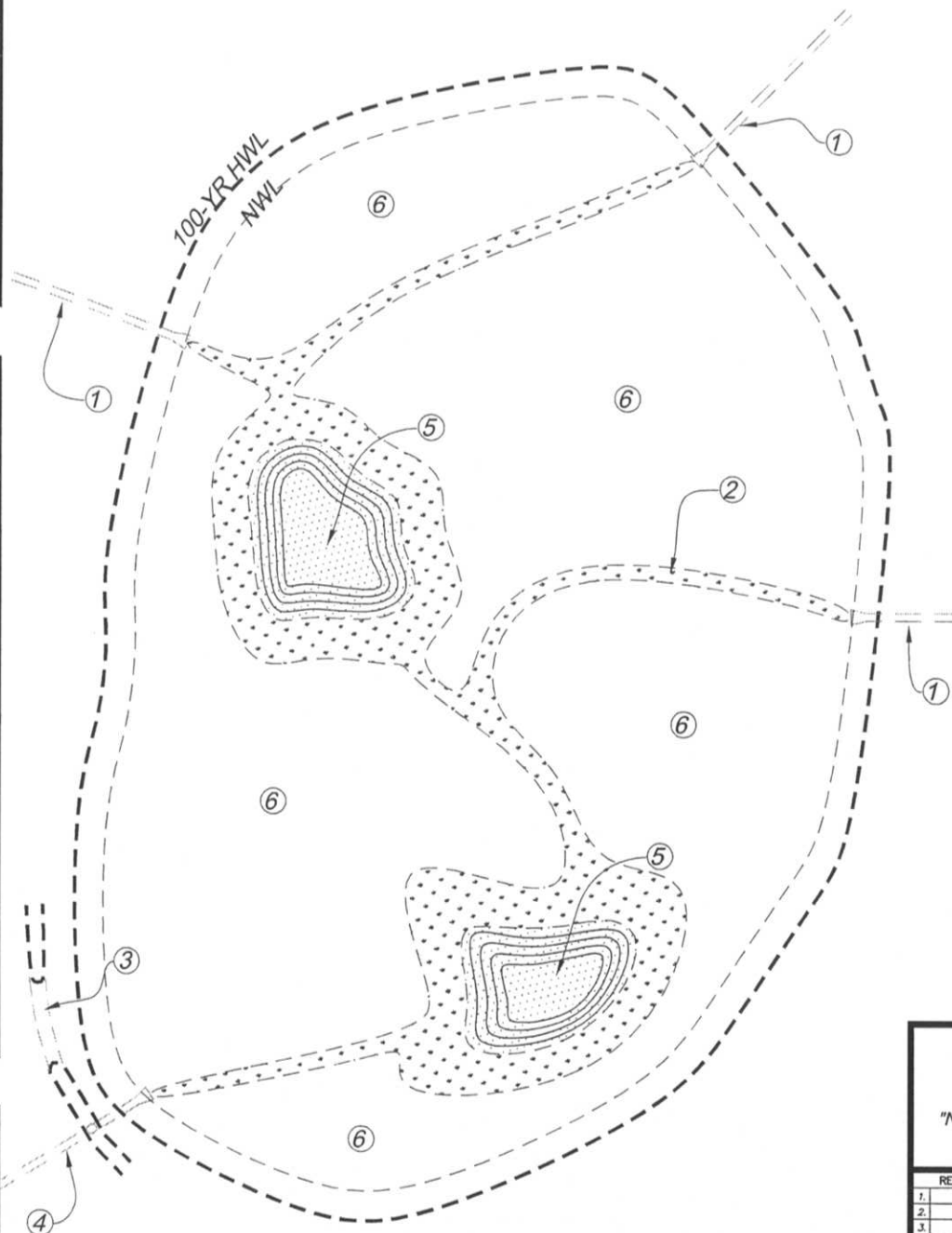
SEC GROUP, INC.
 Smith Engineering Consultants • SEC Automation • SEC Plannir
 759 John Street, Yorkville, IL 60560
 t. 630.553.7560 f. 630.553.7646
 www.secgroupinc.com engineering@secgroupinc.com

COMP. FILE: 070055-Pond-Detail-072507.dwg
 PLOT FILE: STANDARD
 VIEW: WETLAND

"NATURALIZED" DETENTION BASIN PLAN VIEW

NOTES

1. STORM SEWER PIPE - FLOW INTO BASIN.
2. LOW FLOW CHANNEL TO BE CONSTRUCTED A MINIMUM OF 6" BELOW NWL. TO BE SEEDED WITH EMERGENT WETLAND PLANTINGS.
3. EMERGENCY OVERFLOW WEIR.
4. STORM SEWER PIPE - RESTRICTED FLOW OUT OF BASIN.
5. INTERMITTENT AREAS OF "WET" DETENTION FOR WATER QUALITY USE. TO BE SUBJECT TO VILLAGE REGULATIONS CONCERNING "WET" DETENTION BASIN DESIGN.
6. AREAS OF NATIVE DEEP-ROOTED VEGETATION SLOPING FROM THE NWL TO THE LOW FLOW CHANNEL.



VILLAGE OF OSWEGO

"NATURALIZED" DETENTION BASIN PLAN VIEW

REVISONS	DRAWN BY:	DATE:	PROJECT NO.
1.	BAL	7/25/07	OSWE 070055
2.	DESIGNED BY:	HORIZ. SCALE:	SHEET NO.
3.		NTS	
4.	CHECKED BY:	VERT. SCALE:	B
5.		NTS	

VILLAGE OF OSWEGO

"NATURALIZED" DETENTION BASIN CROSS-SECTION

Illinois Professional Engineer Firm # 184-00011

SEC GROUP, INC.
 Smith Engineering Consultants • SEC Automation • SEC Plannir
 759 John Street, Yorkville, IL 60590
 T. 830.553.7500 F. 830.553.7648
 www.secgroupinc.com engineering@secgroupinc.com

COMP. FILE: 072035-Pond-Detail-072507.dwg
 PLOT FILE: STANDARD
 VER: NATURALIZED

NOTES

1. NATIVE DEEP-ROOTED VEGETATION.
2. EMERGENT WETLAND PLANTINGS.
3. MAXIMUM DEPTH OF LOW-FLOW CHANNEL NOT TO EXCEED 6".
4. LOW-FLOW CHANNEL SHALL BE CONSTRUCTED WITH INTERMITTENT AREAS OF "WET" DETENTION BASIN FOR WATER QUALITY USE.

LEGEND

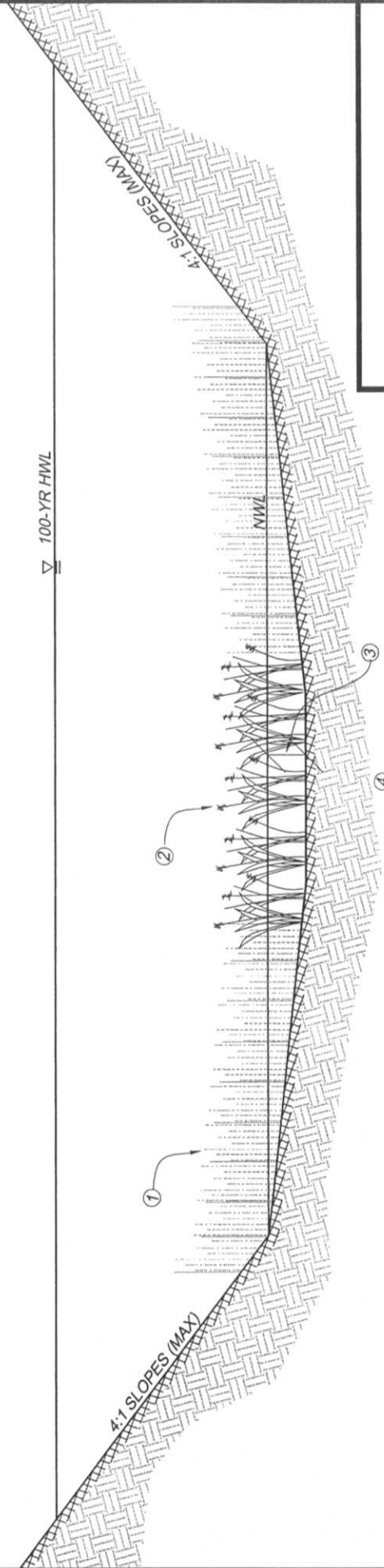


MINIMUM 6" RESPREAD
TOPSOIL



OTHER ONSITE SOILS

▽ 100-YR HWL



VILLAGE OF OSWEGO

"NATURALIZED" DETENTION BASIN CROSS-SECTION

REVISIONS	DRAWN BY:	DATE:	PROJECT NO.:
1.	BAL	7/25/07	CSRE 072035
2.			SHEET NO.
3.			
4.			
5.			