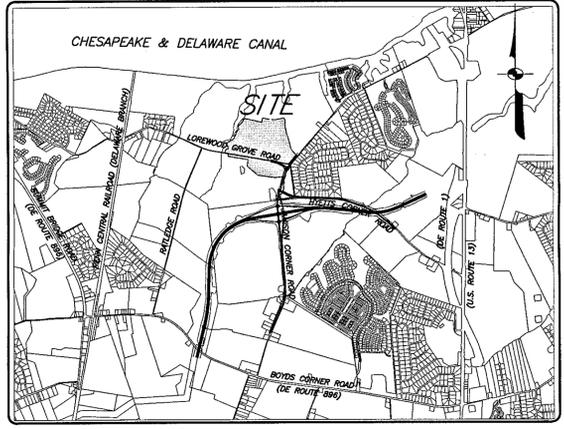
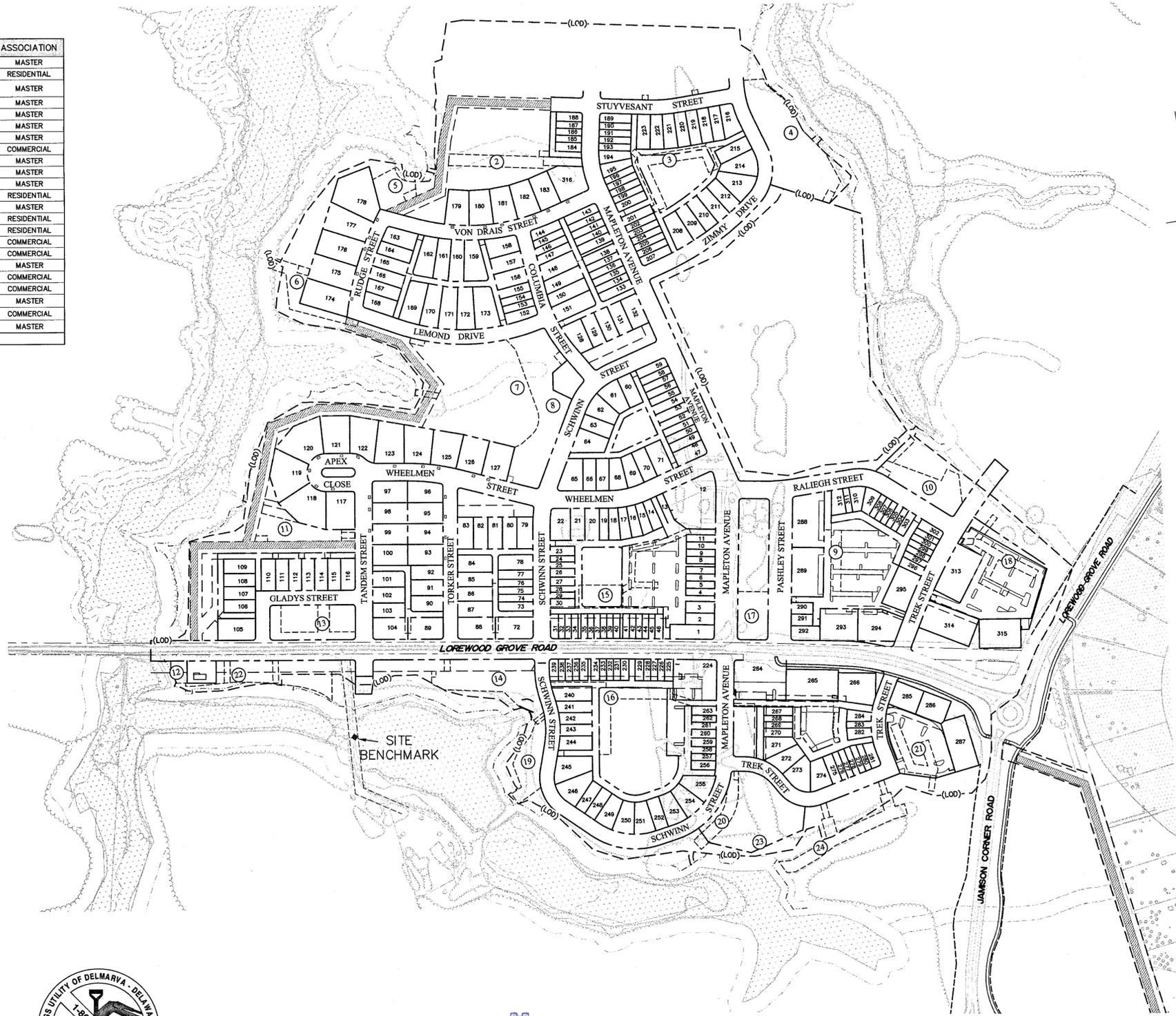


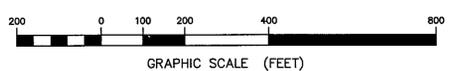
SWMA#	AREA (AC.)	FACILITY	TRANSECT	ASSOCIATION
2	0.361	BIOSWALE 2.5.2	T1	MASTER
3	0.410	INFILTRATOR 3.2.2	T4	RESIDENTIAL
4	1.519	BIORETENTION BASIN 3.2.3 & BIOSWALE 3.2.1	T1	MASTER
5	0.313	BIORETENTION BASIN 2.5.1	T1	MASTER
6	0.341	BIOSWALE 2.4.6	T1	MASTER
7	2.570	POND 2.4	T1	MASTER
8	1.404	BIORETENTION BASIN 2.4.4	T1	MASTER
9	0.465	INFILTRATOR 3.1.4	T5	COMMERCIAL
10	0.568	BIOSWALE 3.1.2	T1	MASTER
11	0.450	BIOSWALE 2.4.2	T1	MASTER
12	0.089	BIOSWALE 2.4.1	T1	MASTER
13	0.345	INFILTRATOR 2.3.1	T4	RESIDENTIAL
14	0.737	BIORETENTION BASIN 2.2.2	T1	MASTER
15	0.274	INFILTRATOR 2.2.3	T4	RESIDENTIAL
16	0.392	INFILTRATOR 2.2.4	T4	RESIDENTIAL
17	0.399	INFILTRATOR 2.2.7	T5	COMMERCIAL
18	0.271	INFILTRATOR 3.1.1	T5	COMMERCIAL
19	0.480	BIOSWALE 2.2.8	T1	MASTER
20	0.259	BIOSWALE 2.1.2	T5	COMMERCIAL
21	0.238	INFILTRATOR 2.1.4	T5	COMMERCIAL
22	0.463	BIORETENTION BASIN 2.3.2	T1	MASTER
23	0.166	FILTER STRIP 2.1.5	T5	COMMERCIAL
24	0.290	BIOSWALE 2.1.6	T1	MASTER
TOTAL SWM AREA:	12.804			



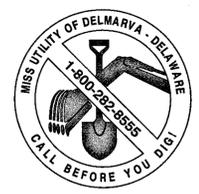
ZONING MAP NOS. B2 & B3  
ADC MAP-18, EB-69  
**LOCATION PLAN** SCALE: 1" = 4000'

- GENERAL DATA:**
- OWNER: WELFARE FOUNDATION, INC.  
100 W. 10TH STREET, SUITE 1109  
WILMINGTON, DE 19801
  - TAX PARCEL NUMBER: 13-003.00-001, 13-003.00-002, 13-007.00-020, 13-007.00-021, 13-007.00-053, 13-007.00-054, 13-008.00-001, 13-008.00-002, & 13-008.00-007
  - SOURCE OF TITLE: D.R. 189-140  
DEED INSTRUMENT NO. 20030703-0079816
  - AREA: 145.22 ACRES (VILLAGE 1, TO BE DEVELOPED BY THIS SUBMISSION)  
1214.11 ACRES (TOTAL PROPERTY)
  - ZONING: S (SUBURBAN) - HAMLET AND VILLAGE
- | TRANSECT ZONE                             | T1  | T3        | T4             | T5             |
|---|-----|-----------|----------------|----------------|
| -RESIDENTIAL DENSITY (UNITS/ACRAGE GROSS) | N/A | 6         | 12             | 27             |
| -FRONT SETBACK (PRINCIPAL)                | N/A | 24' MIN.  | 6' MIN/20' MAX | 0' MIN/20' MAX |
| -FRONT SETBACK (SECONDARY)                | N/A | 16' MIN.  | 6' MIN/20' MAX | 0' MIN/20' MAX |
| -SIDE SETBACK                             | N/A | 10' TOTAL | 0' MIN.        | 0' MIN/24' MAX |
| -REAR SETBACK                             | N/A | 12' MIN.  | 3' MIN.        | 3' MIN.        |
| -FRONTAGE BUILDOUT                        | N/A | 40% MIN.  | 60% MIN.       | 80% MIN.       |
- MODIFIED GRID: 074/304, 074/308
  - COUNCILMANIC DISTRICT: 12
  - SOURCE OF TOPOGRAPHY: THE TOPOGRAPHIC PLAN WAS COMPILED IN JANUARY 1997 BY RAMESH C. BATTI ASSOCIATES, P.A., BY ESTABLISHING A NETWORK OF HORIZONTAL AND VERTICAL CONTROL, AND TOPOGRAPHIC FEATURES WERE COMPILED BY AERIAL TECHNIQUES. THE PLAN WAS CONVERTED INTO DELAWARE STATE PLANE (N.A.D. 1983) AND N.A.V.D. 1988 BY VANDEMARK & LYNCH, INC. IN JUNE 2007.
  - HORIZONTAL DATUM: DELAWARE STATE PLANE, COORDINATES DERIVED FROM GPS OBSERVATION REFERENCED TO N.A.D. 1983
  - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM - 1988  
SITE BENCHMARK:  
SET NAIL ON CONCRETE CULVERT  
ELEV. = 32.34
  - WETLANDS LOCATION: THE WETLANDS SHOWN HEREON WERE DELINEATED BY JAMES C. MCGILLEY IV, ENVIRONMENTAL CONSULTANTS, INC., AND TEN BEARS ENVIRONMENTAL, L.L.C., AND FIELD SURVEYED BY VANDEMARK & LYNCH INC. IN BETWEEN AUGUST 2, 2007 AND SEPTEMBER 13, 2007
  - WATER: ARTESIAN WATER COMPANY, INC.  
WATER SUPPLY IS SUBJECT TO THE APPROVAL OF THE DELAWARE STATE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL AND THE DELAWARE DEPARTMENT OF PUBLIC HEALTH.
  - SEWER: NEW CASTLE COUNTY - SOUTHERN SEWER SERVICE AREA  
SEWERAGE IS SUBJECT TO THE APPROVAL OF THE NEW CASTLE COUNTY DEPARTMENT OF SPECIAL SERVICES. AT THE TIME OF APPROVAL OF THIS PLAN, SEWER CAPACITY EXISTED TO ACCOMMODATE THE ANTICIPATED FLOWS GENERATED BY THIS DEVELOPMENT. NEW CASTLE COUNTY HAS COMMITTED TO PROVIDE SEWER SERVICE IN ACCORDANCE WITH THE LAND DEVELOPMENT IMPROVEMENT AGREEMENT FOR THIS DEVELOPMENT. THE OWNER OF THIS PROPERTY, HIS SUCCESSORS OR ASSIGNS, SHALL BE RESPONSIBLE FOR EXTENDING SEWER SERVICE TO EACH LOT SHOWN ON OR CREATED BY THIS PLAN.

APPLICATION NO.: 2011-0168-S  
EROSION & STORMWATER PLAN  
VILLAGE 1  
**WHITEHALL**  
LOREWOOD GROVE ROAD  
ST. GEORGES HUNDRED NEW CASTLE COUNTY  
DELAWARE  
SCALE: 1" = 200' DECEMBER 19, 2012



**UTILITY NOTE:**  
EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED TO SECURE THE MOST ACCURATE UTILITY LOCATION AND ELEVATION INFORMATION AVAILABLE. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST 72 HOURS IN ADVANCE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM BY THE CONTRACTOR SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA (TELEPHONE 800-282-8555).



DELMARVA POWER  
DELMARVA GAS  
NCC DEPARTMENT OF SPECIAL SERVICES  
VERIZON-ECSM

**PROFESSIONAL ENGINEER/LAND SURVEYOR CERTIFICATION**  
I, CHRISTOPHER M. O'KEEFE, HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF DELAWARE AND THAT ALL OF THE INFORMATION ON THIS PLAN IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY ACCEPTED SURVEYING STANDARDS AND PRACTICES AND BY THE NEW CASTLE COUNTY UNIFIED DEVELOPMENT CODE.  
DATE: 8-20-14  
CHRISTOPHER M. O'KEEFE, P.E.

**CERTIFICATION OF OWNERSHIP**  
I, WELFARE FOUNDATION INCORPORATED, TRUSTEE, HEREBY CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL BE PURSUANT TO THE APPROVED PLAN AND RESPONSIBLE PERSONS INVOLVED WILL HAVE A CERTIFICATE OF TRAINING FROM DNRCC, DNRCC AND NEW CASTLE COUNTY PERSONNEL SHALL HAVE THE RIGHT TO CONDUCT ON-SITE INSPECTIONS.  
DATE: 8-20-14  
OWNER: Peter G. Johnson

**ENGINEERING APPROVAL**  
Aug 28, 2014  
REVIEWED BY  
Michael Clendaniel P.E.

**PLAN PURPOSE**  
THE PURPOSE OF THESE PLANS IS TO SHOW IMPROVEMENTS ASSOCIATED WITH THE TOWN OF WHITEHALL-VILLAGE 1 SUBDIVISION (145.22 ACRES).

**INDEX OF SHEETS:**

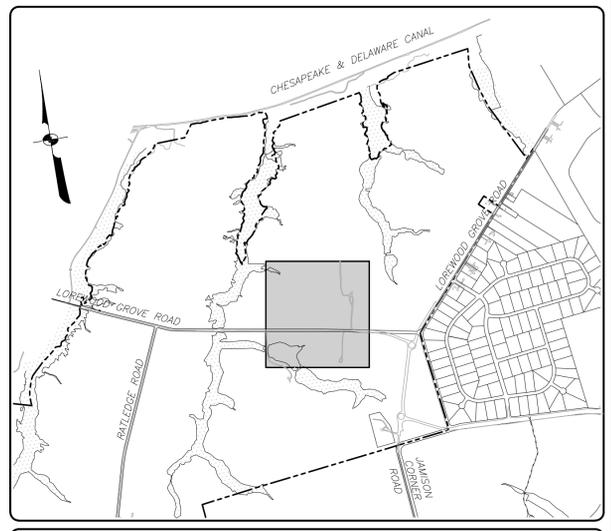
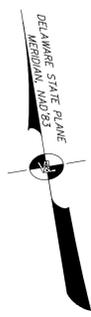
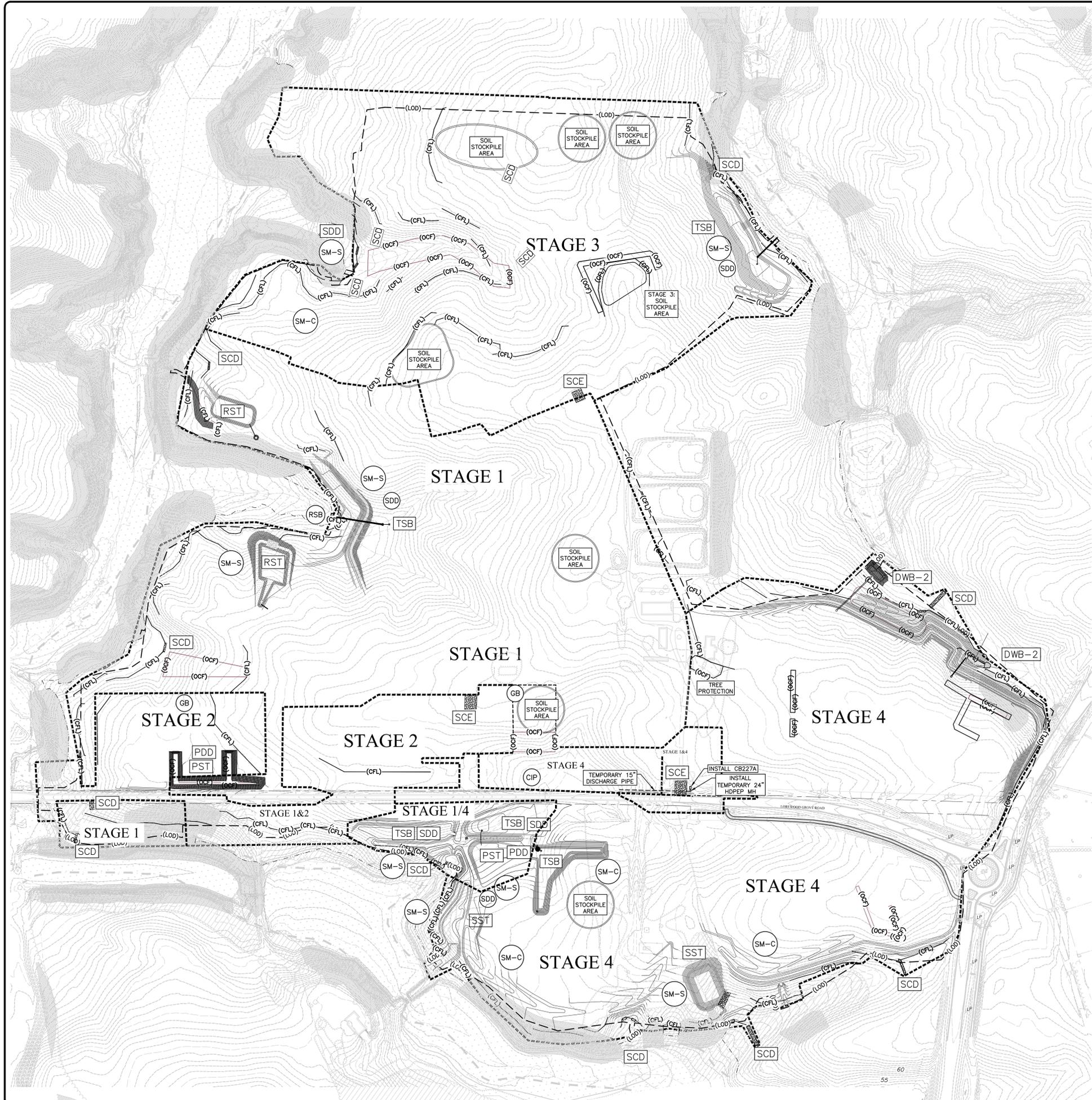
01:	INDEX PLAN
02:	SCHEMATIC STAGING PLAN
03-09:	PRE-BULK GRADING
10-27:	POST BULK GRADING
28-29:	STAGE 1 ENTRANCES
30-47:	GRADING PLAN
48-51:	STORMDRAIN PROFILES
52:	DETAIL KEY
53-77:	STORM WATER MANAGEMENT SECTIONS & DETAILS
78-91:	DETAILS

NO.	DATE	REVISION	BY	APPROVED
4	3/18/14	PER NCC COMMENTS	WLL/JH	CBC
3	11/12/13	PER NCC COMMENTS	WLL/JH	CBC
2	10/1/13	PER NCC COMMENTS	WLL/JH	CBC
1	07/22/13	PER NCC COMMENTS (2/28/13)	WLL/JH	CBC

VANDEMARK & LYNCH, INC. IS NOT RESPONSIBLE FOR ANY MODIFICATION MADE TO THIS PLAN AND/OR CADD FILE WITHOUT ITS WRITTEN AUTHORIZATION.

**VANDEMARK & LYNCH, INC.**  
ENGINEERS - PLANNERS - SURVEYORS  
4305 MILLER ROAD  
WILMINGTON, DE 19802 (302) 764-7635  
WWW.VANDEMARKLYNCH.COM

SURVEYED BY:	C. COBAUGH	FILE NAME:	20968.00-GRADE-C1	REVISION:	4	SHEET:	01 OF 91
COMPUTED BY:	C. COBAUGH	PERMANENT FILE:	074/304, 074/308	QA REVIEW:	L	SIZE:	01
PROJECT MANAGER:	C. COBAUGH	APPROVED BY:					
DRAWN BY:	J. HARIANTO						



KEY PLAN

EXISTING	PROPOSED	
[Symbol]	N/A	ASPHALT PAVING
[Symbol]	N/A	CONCRETE/FOUNDATION
[Symbol]	N/A	BUILDING
[Symbol]	N/A	BITUMINOUS PAVING
[Symbol]	N/A	PROPERTY LINE
[Symbol]	(89)	CONTOUR
[Symbol]	N/A	UTILITY POLE W/GUY WIRE
[Symbol]	N/A	FENCE
[Symbol]	[Symbol]	STOP SIGN, STREET SIGN
N/A	(LOD)	LIMIT OF DISTURBANCE
N/A	(SSF)	SUPER SILT FENCE
N/A	(CFL)	COMPOST FILTER LOG
N/A	(OCF)	ORANGE CONSTRUCTION FENCING
[Symbol]	[Symbol]	EROSION MATTING
[Symbol]	N/A	SHRUB LINE
[Symbol]	N/A	TREE
N/A	TS(A)(1)	TEMPORARY SWALE, TYPE A, STABILIZATION METHOD #1 (SEE DETAIL)

LEGEND

EXISTING	PROPOSED	
N/A	[Symbol]	STONE CHECK DAM
N/A	[Symbol]	STABILIZED CONSTRUCTION ENTRANCE
N/A	SM-S	EROSION CONTROL MATTING (SLOPE/CHANNEL)
N/A	[Symbol]	RIPRAP OUTLET SEDIMENT TRAP
N/A	[Symbol]	PIPE OUTLET SEDIMENT TRAP
N/A	[Symbol]	TEMPORARY SEDIMENT BASIN
N/A	[Symbol]	DEWATERING BASIN TYPE-2
N/A	[Symbol]	RIP-RAP STILLING BASIN
N/A	[Symbol]	CULVERT INLET PROTECTION
N/A	[Symbol]	SKIMMER DEWATERING DEVICE
N/A	[Symbol]	GEOTEXTILE DEWATERING BAG
N/A	[Symbol]	PIPE DEWATERING DEVICE

SOIL LINE & TEXTURE TYPE  
 B : SILT LOAM OR LOAM  
 C : SANDY CLAY LOAM  
 D : CLAY LOAM, SILTY CLAY LOAM, SANDY CLAY, SILTY CLAY OR CLAY



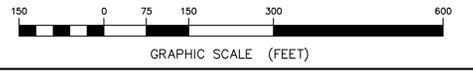
ENGINEERING APPROVAL  
 Aug 28, 2014  
 REVIEWED BY  
 Michael Clendaniel P.E.

ABBREVIATION  
 I.E. = INVERT ELEVATION  
 T.E. = TOP ELEVATION  
 L.F. = LINEAR FEET

THE PURPOSE OF THIS PLAN IS TO SHOW AN OVERVIEW OF PRE-BULK PLANNING STAGES. REFER TO INDIVIDUAL PLANS FOR SEDIMENT TRAPPING AND BASIN CONTOURS AND DESIGN.

APPLICATION NO.: 2011-0168-S  
 PRE-BULK GRADING OVERALL  
 EROSION & SEDIMENT CONTROL PLAN  
 WHITEHALL

LOREWOOD GROVE ROAD  
 ST. GEORGES HUNDRED NEW CASTLE COUNTY  
 DELAWARE  
 SCALE: 1" = 150'  
 DECEMBER 19, 2012

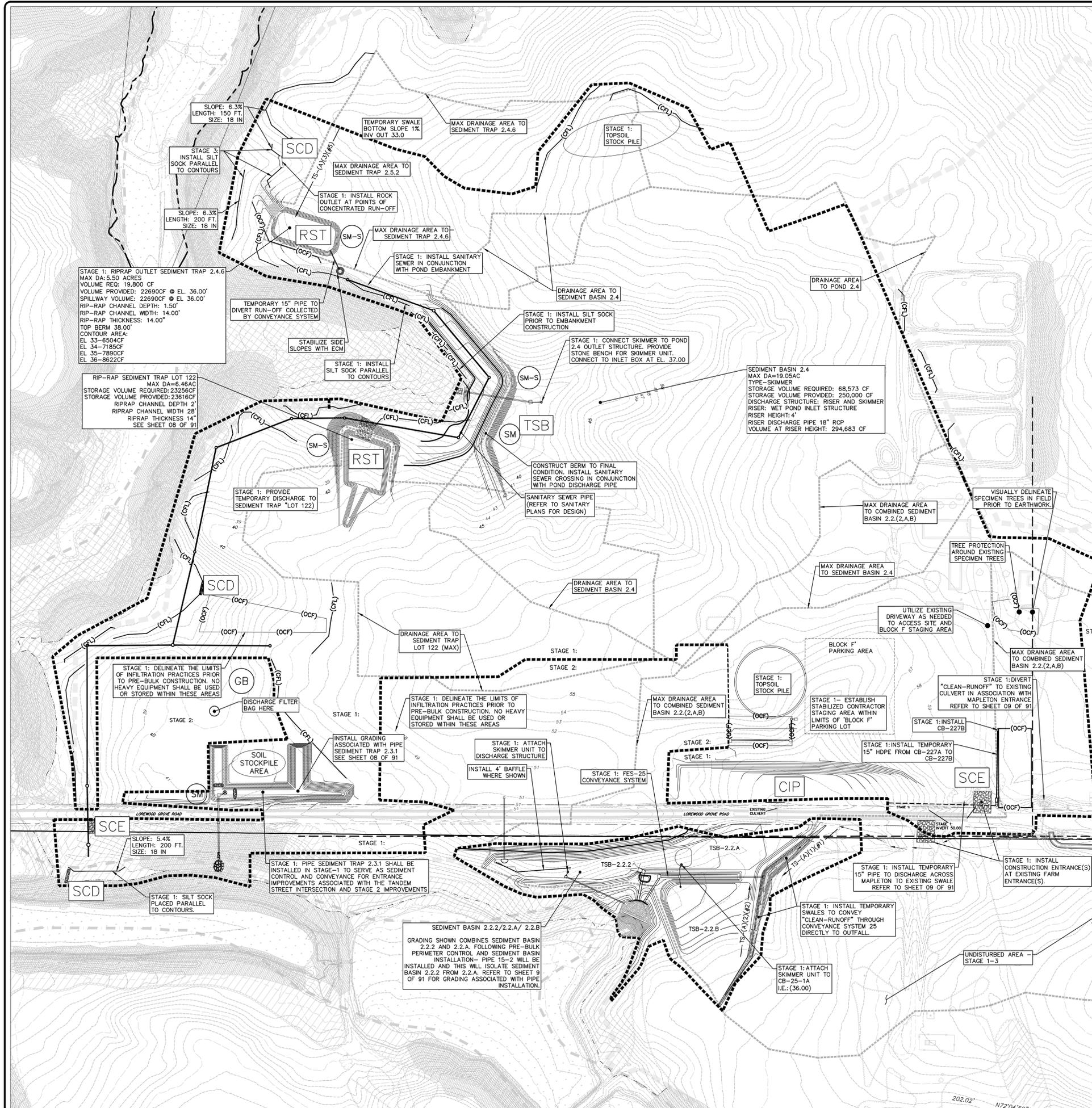


NO.	DATE	REVISION	BY	APPROVED
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4	3/18/14	PER NCC COMMENTS	WJL, JH	CBC
3	11/12/13	PER NCC COMMENTS	WJL, JH	CBC
2	10/1/13	PER NCC COMMENTS	WJL, JH	CBC
1	07/22/13	PER NCC COMMENTS (2/26/13)	WJL, JH	CBC

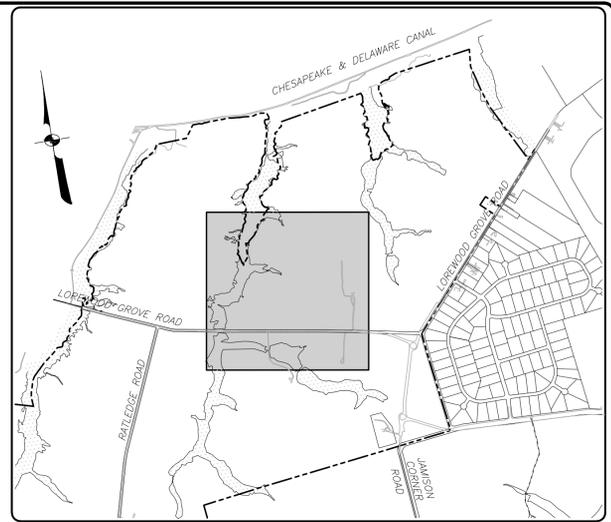
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**VANDEMARK & LYNCH, INC.**  
 ENGINEERS - PLANNERS - SURVEYORS  
 4305 MILLER ROAD  
 WILMINGTON, DE 19802/(302) 764-7635  
 WWW.VANDEMARKLYNCH.COM

SURVEYED BY:	FILE NAME:	REVISION:	SHEET:
COMPUTED BY:	20968.00-EROS-00	4	02 OF 91
PROJECT MANAGER:	PERMANENT FILE:	QA REVIEW:	SIZE:
C. COBAUGH	074/304_074/308		L
DRAWN BY:	APPROVED BY:		02
J. HARGREAVES, W. JOHNSON			



  
**ENGINEERING APPROVAL**  
 Aug 28, 2014  
 REVIEWED BY  
 Michael Clendaniel P.E.



**KEY PLAN**

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	N/A	ASPHALT PAVING
[Symbol]	N/A	CONCRETE/FOUNDATION
[Symbol]	N/A	BUILDING
[Symbol]	N/A	BITUMINOUS PAVING
[Symbol]	N/A	PROPERTY LINE
[Symbol]	(BG)	CONTOUR
[Symbol]	N/A	UTILITY POLE W/GUY WIRE
[Symbol]	N/A	FENCE
[Symbol]	[Symbol]	STOP SIGN, STREET SIGN
N/A	(LOD)	LIMIT OF DISTURBANCE
N/A	(SSF)	SUPER SILT FENCE
N/A	(CFL)	COMPOST FILTER LOG
N/A	(OCF)	ORANGE CONSTRUCTION FENCING
[Symbol]	[Symbol]	EROSION MATTING
[Symbol]	N/A	SHRUB LINE
[Symbol]	N/A	TREE
N/A	TS(A)(1)	TEMPORARY SWALE, TYPE A, STABILIZATION METHOD #1 (SEE DETAIL)

**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
N/A	[Symbol]	STONE CHECK DAM
N/A	[Symbol]	STABILIZED CONSTRUCTION ENTRANCE
N/A	SM-S	EROSION CONTROL MATTING (SLOPE/CHANNEL)
N/A	[Symbol]	RIPRAP OUTLET SEDIMENT TRAP
N/A	[Symbol]	STONE OUTLET SEDIMENT TRAP
N/A	[Symbol]	PIPE OUTLET SEDIMENT TRAP
N/A	[Symbol]	TEMPORARY SEDIMENT BASIN
N/A	[Symbol]	DEWATERING BASIN TYPE-2
N/A	[Symbol]	RIP-RAP STILLING BASIN
N/A	[Symbol]	CULVERT INLET PROTECTION
N/A	[Symbol]	SKIMMER DEWATERING DEVICE
N/A	[Symbol]	PIPE DEWATERING DEVICE
N/A	[Symbol]	GEOTEXTILE DEWATERING BAG

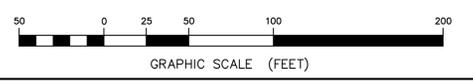
**ABBREVIATION**

I.E. = INVERT ELEVATION  
 T.E. = TOP ELEVATION  
 L.F. = LINEAR FEET

- STAGE-1:**
- SEDIMENT BASINS-  
 1. SEDIMENT BASIN 2.2.2, 2.2.A & 2.2.A (SHEETS - 09 & 87)  
 2. SEDIMENT BASIN 2.4 (SHEETS-08 & 87)
- SEDIMENT TRAPS-  
 1. RIP-RAP TRAP LOT 122 (SHEETS-06,86)  
 2. PIPE OUTLET SEDIMENT TRAP 2.3.1 (SHEETS-08,86)  
 3. RIP-RAP TRAP 2.4.6 (SHEETS-08,86,87)
- STONE CHECK DAMS (SHEET 85)  
 COMPOST FILTER LOG (SHEET 86)  
 TEMPORARY SWALE (SHEET 83)

APPLICATION NO.: 2011-0168-S  
**PRE-BULK GRADING STAGES 1  
 EROSION & SEDIMENT CONTROL PLAN**  
**WHITEHALL**

LOREWOOD GROVE ROAD  
 ST. GEORGES HUNDRED NEW CASTLE COUNTY  
 DELAWARE  
 SCALE: 1" = 50'  
 DECEMBER 19, 2012



THE PURPOSE OF THIS PLAN IS TO SHOW STAGE 1 PRE-BULK CONSTRUCTION EFFORTS.  
 STAGE 1 NET CUT: 5093.73 CY (REPRESENTS 10% CUT FACTOR)  
 STAGE 1 NET FILL: 8303.84 CY (REPRESENTS 10% FILL FACTOR)  
 VALUES REPRESENT FINISHED GRADE AND DO NOT ACCOUNT FOR IMPROVEMENTS

NO.	DATE	REVISION	BY	APPROVED
5	8/21/14	PER NCC COMMENTS	WJL	CBC
4	3/18/14	PER NCC COMMENTS	WJL, JH	CBC
3	11/12/13	PER NCC COMMENTS	WJL, JH	CBC
2	10/1/13	PER NCC COMMENTS	WJL, JH	CBC
1	07/22/13	PER NCC COMMENTS (2/26/13)	WJL, JH	CBC

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 WILMINGTON, DE 19802/(302) 764-7635  
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SURVEYED BY:  
 C. COBAUGH

FILE NAME:  
**20968.00-EROS-01**

REVISION:  
**4**

SHEET:  
**03 OF 91**

COMPUTED BY:  
 C. COBAUGH

PROJECT MANAGER:  
 C. COBAUGH

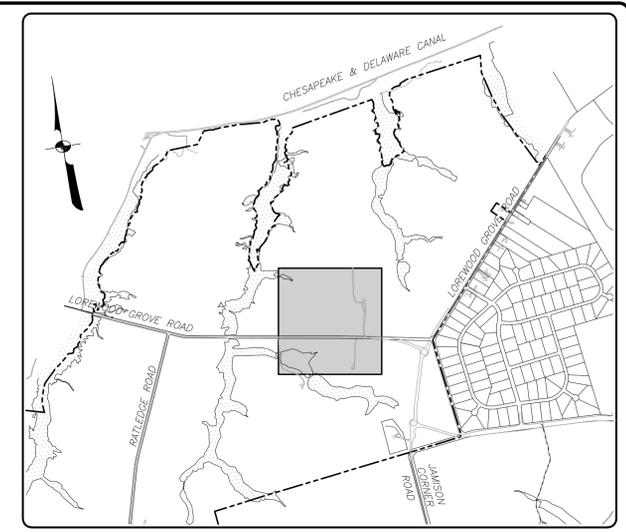
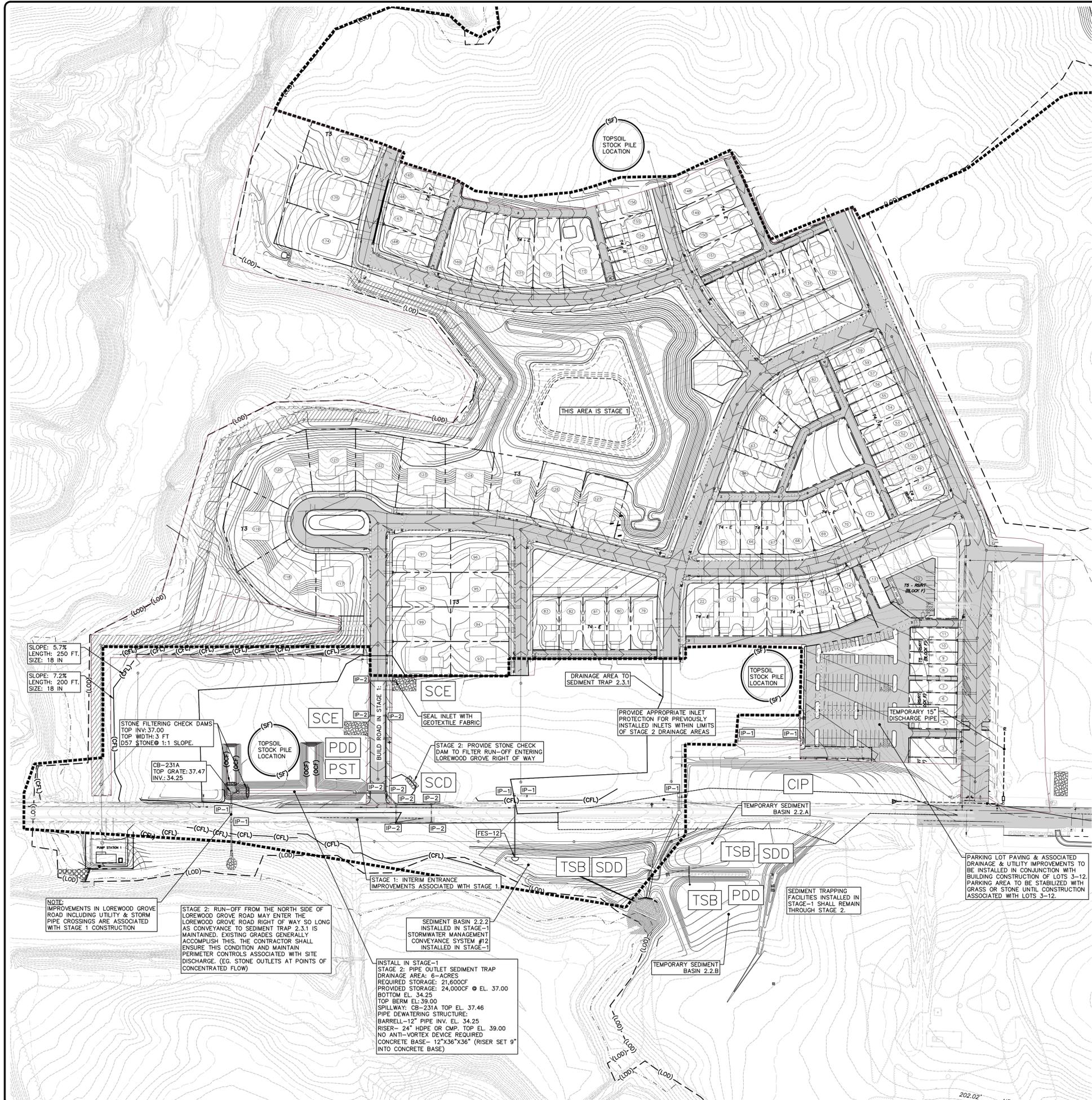
DRAWN BY:  
 J. HARRINGTON, W. JOHNSON

PERMANENT FILE:  
 074/304\_074/308

QA REVIEW:  
 [ ]

SIZE:  
 L

APPROVED BY:  
 [ ]



**KEY PLAN**

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	N/A	ASPHALT PAVING
[Symbol]	N/A	CONCRETE/FOUNDATION
[Symbol]	N/A	BUILDING
[Symbol]	N/A	BITUMINOUS PAVING
[Symbol]	N/A	PROPERTY LINE
[Symbol]	(89)	CONTOUR
[Symbol]	N/A	UTILITY POLE W/GUY WIRE
[Symbol]	N/A	FENCE
[Symbol]	[Symbol]	STOP SIGN, STREET SIGN
N/A	(LOD)	LIMIT OF DISTURBANCE
N/A	(SSF)	SUPER SILT FENCE
N/A	(CFL)	COMPOST FILTER LOG
N/A	(OCF)	ORANGE CONSTRUCTION FENCING
[Symbol]	[Symbol]	EROSION MATTING
[Symbol]	N/A	SHRUB LINE
[Symbol]	N/A	TREE
N/A	TS(A)(1)	TEMPORARY SWALE, TYPE A, STABILIZATION METHOD #1 (SEE DETAIL)

**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
N/A	[Symbol]	STONE CHECK DAM
N/A	[Symbol]	STABILIZED CONSTRUCTION ENTRANCE
N/A	SM-S	EROSION CONTROL MATTING (SLOPE/CHANNEL)
N/A	[Symbol]	RIPRAP OUTLET SEDIMENT TRAP
N/A	[Symbol]	STONE OUTLET SEDIMENT TRAP
N/A	[Symbol]	PIPE OUTLET SEDIMENT TRAP
N/A	[Symbol]	TEMPORARY SEDIMENT BASIN
N/A	[Symbol]	DEWATERING BASIN TYPE-2
N/A	[Symbol]	RIP-RAP STILLING BASIN
N/A	[Symbol]	CULVERT INLET PROTECTION
N/A	[Symbol]	SKIMMER DEWATERING DEVICE
N/A	[Symbol]	PIPE DEWATERING DEVICE

**SOIL LINE & TEXTURE TYPE**  
 B : SILT LOAM OR LOAM  
 C : SANDY CLAY LOAM  
 D : CLAY LOAM, SILTY CLAY LOAM, SANDY CLAY, SILTY CLAY OR CLAY

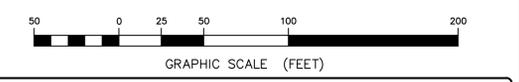
**ABBREVIATION**  
 I.E. = INVERT ELEVATION  
 T.E. = TOP ELEVATION  
 L.F. = LINEAR FEET

**ENGINEERING APPROVAL**  
 Aug 28, 2014  
 REVIEWED BY  
 Michael Clendaniel P.E.

APPLICATION NO.: 2011-0168-S  
**PRE-BULK GRADING STAGE-2**  
**EROSION & SEDIMENT CONTROL PLAN**  
**WHITEHALL**

LOREWOOD GROVE ROAD  
 ST. GEORGES HUNDRED NEW CASTLE COUNTY  
 DELAWARE  
 SCALE: 1" = 50'  
 DECEMBER 19, 2012

THE PURPOSE OF THIS PLAN IS TO SHOW THE STAGE 1 BUILD-OUT AND STAGE 2 PRE-BULK CONSTRUCTION.  
 NET CUT: 3431.13 CY  
 NET FILL: 3862.68 CY  
 (VALUES ARE BASED ON 10% CUT AND FILL FACTORS- VALUES ARE BASED ON FINISHED GRADE AND DO NOT ACCOUNT FOR NEW IMPROVEMENTS SUCH AS FOUNDATIONS, ROADS, SIDEWALKS, UTILITY TRENCHES, ETC.)



NO.	DATE	REVISION	BY	APPROVED
5	8/21/14	PER NCC COMMENTS	WJL	CBC
4	3/18/14	PER NCC COMMENTS	WJL, JH	CBC
3	11/12/13	PER NCC COMMENTS	WJL, JH	CBC
2	10/1/13	PER NCC COMMENTS	WJL, JH	CBC
1	07/22/13	PER NCC COMMENTS (2/26/13)	WJL, JH	CBC

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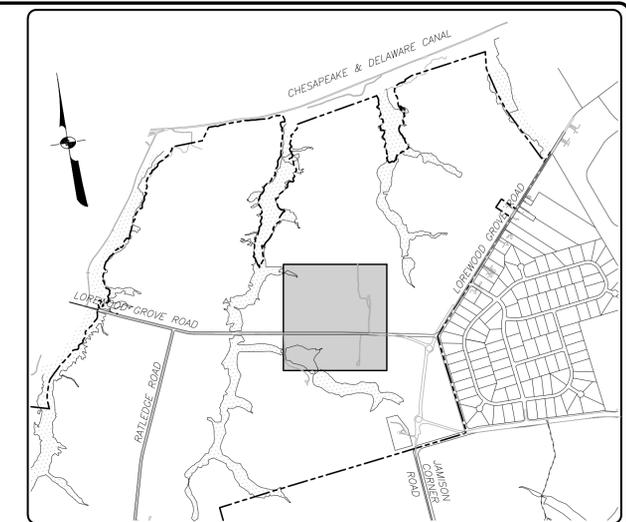
**VANDEMARK & LYNCH, INC.**  
 ENGINEERS - PLANNERS - SURVEYORS  
 4305 MILLER ROAD  
 WILMINGTON, DE 19802/(302) 764-7635  
 WWW.VANDEMARKLYNCH.COM

SURVEYED BY: [Symbol] FILE NAME: 20968.00-EROS-03 REVISION: 4 SHEET: 04 OF 91

COMPUTED BY: C. COBAUGH PERMANENT FILE: 074/304, 074/308 QA REVIEW: [Symbol] SIZE: L

DRAWN BY: C. COBAUGH APPROVED BY: [Symbol]

J. HARRINGTON, W. JOHNSON



KEY PLAN

**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	N/A	ASPHALT PAVING
[Symbol]	N/A	CONCRETE/FOUNDATION
[Symbol]	N/A	BUILDING
[Symbol]	N/A	BITUMINOUS PAVING
[Symbol]	N/A	PROPERTY LINE
[Symbol]	(B9)	CONTOUR
[Symbol]	N/A	UTILITY POLE W/GUY WIRE
[Symbol]	N/A	FENCE
[Symbol]	N/A	STOP SIGN, STREET SIGN
[Symbol]	(LOD)	LIMIT OF DISTURBANCE
[Symbol]	(SSF)	SUPER SILT FENCE
[Symbol]	(CFL)	COMPOST FILTER LOG
[Symbol]	(OCF)	ORANGE CONSTRUCTION FENCING
[Symbol]	[Symbol]	EROSION MATTING
[Symbol]	N/A	SHRUB LINE
[Symbol]	N/A	TREE
[Symbol]	TS(A)(1)	TEMPORARY SWALE, TYPE A, STABILIZATION METHOD #1 (SEE DETAIL)

**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
N/A	[Symbol]	STONE CHECK DAM
N/A	[Symbol]	STABILIZED CONSTRUCTION ENTRANCE
N/A	SM-S -C	EROSION CONTROL MATTING (SLOPE/CHANNEL)
N/A	[Symbol]	RIPRAP OUTLET SEDIMENT TRAP
N/A	[Symbol]	PIPE OUTLET SEDIMENT TRAP
N/A	[Symbol]	TEMPORARY SEDIMENT BASIN
N/A	[Symbol]	DEWATERING BASIN TYPE-2
N/A	[Symbol]	RIP-RAP STILLING BASIN
N/A	[Symbol]	CULVERT INLET PROTECTION
N/A	[Symbol]	SKIMMER DEWATERING DEVICE
N/A	[Symbol]	PIPE DEWATERING DEVICE

**STAGE-3:**  
 SEDIMENT BASINS  
 1. SEDIMENT BASIN 3.2.3 (SHEETS-08,87)  
 SEDIMENT TRAPS-  
 1. STONE OUTLET TRAP 2.5.1 (SHEETS-08,86)  
 TEMPORARY SWALE STAGE 3 (SHEETS 83)  
 STONE CHECK DAMS (SHEET 85)  
 COMPOST FILTER LOG (SHEET 86)

**ABBREVIATION**  
 I.E. = INVERT ELEVATION  
 T.E. = TOP ELEVATION  
 L.F. = LINEAR FEET

**ENGINEERING APPROVAL**  
 Aug 28, 2014  
 REVIEWED BY  
 Michael Clendaniel P.E.

APPLICATION NO.: 2011-0168-S  
 PRE-BULK GRADING STAGE-3  
 EROSION & SEDIMENT CONTROL PLAN  
**WHITEHALL**  
 LOREWOOD GROVE ROAD  
 ST. GEORGES HUNDRED NEW CASTLE COUNTY  
 DELAWARE  
 SCALE: 1" = 50'  
 DECEMBER 19, 2012

50 0 25 50 100 150 200  
 GRAPHIC SCALE (FEET)

THE PURPOSE OF THIS PLAN IS TO SHOW STAGE 1 AND 2 BUILD OUT AND STAGE 3 PRE-BULK CONSTRUCTION.  
 STAGE 3 NET CUT: 518.12 CY  
 STAGE 3: NET FILL: 1681.08 CY  
 (VALUES REPRESENT 10% CUT/FILL FACTOR- VALUES BASED ON FINISHED GRADE AND THEY DO NOT REPRESENT VOLUME ASSOCIATED WITH IMPROVEMENTS, FOUNDATIONS, UTILITY CHANNELS, ETC.)

NO.	DATE	REVISION	BY	APPROVED
5	8/21/14	PER NCC COMMENTS	WJL	CBC
4	3/18/14	PER NCC COMMENTS	WJL, JH	CBC
3	11/12/13	PER NCC COMMENTS	WJL, JH	CBC
2	10/1/13	PER NCC COMMENTS	WJL, JH	CBC
1	07/22/13	PER NCC COMMENTS (2/26/13)	WJL, JH	CBC

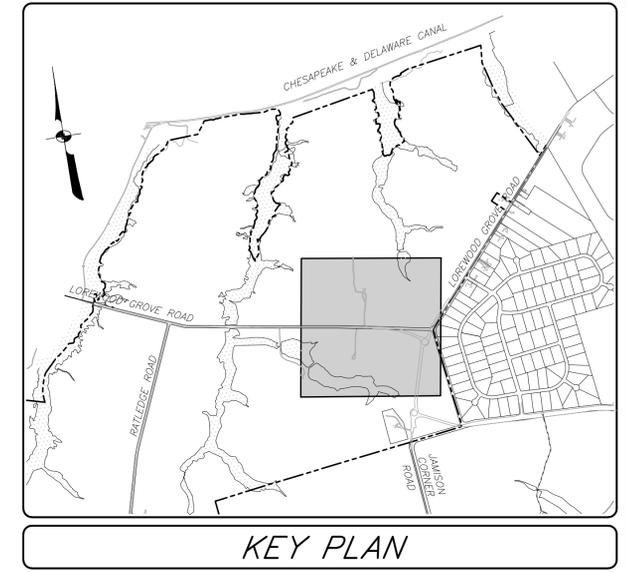
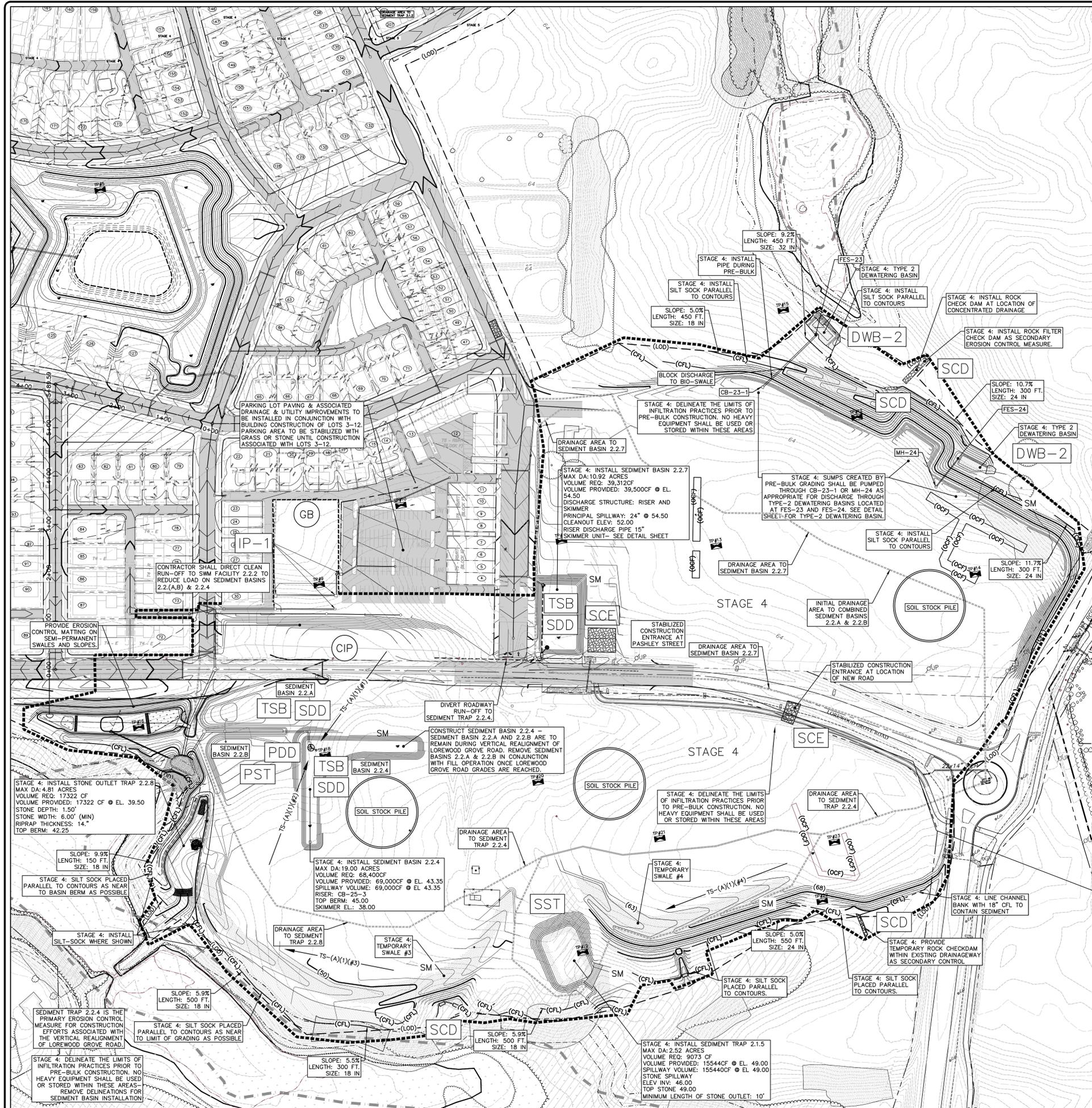
VADEMAREK & LYNCH, INC. IS NOT RESPONSIBLE FOR ANY MODIFICATION MADE TO THIS PLAN AND/OR CADD FILE WITHOUT ITS WRITTEN AUTHORIZATION.

**VADEMAREK & LYNCH, INC.**  
 ENGINEERS - PLANNERS - SURVEYORS  
 4305 MILLER ROAD  
 WILMINGTON, DE 19802/(302) 764-7635  
 WWW.VADEMAREKLYNCH.COM

SURVEYED BY: [Symbol]  
 COMPUTED BY: C. COBAUGH  
 PROJECT MANAGER: C. COBAUGH  
 DRAWN BY: J. HARRINGTON, W. JOHNSON

FILE NAME: 20968.00-EROS-02  
 PERMANENT FILE: 074/304, 074/308  
 REVISION: 4  
 SHEET: 05 OF 91

APPROVED BY: [Signature]



EXISTING	PROPOSED	DESCRIPTION
[Symbol]	N/A	ASPHALT PAVING
[Symbol]	N/A	CONCRETE/FOUNDATION
[Symbol]	N/A	BUILDING
[Symbol]	N/A	BITUMINOUS PAVING
[Symbol]	N/A	PROPERTY LINE
[Symbol]	(89)	CONTOUR
[Symbol]	N/A	UTILITY POLE W/GUY WIRE
[Symbol]	N/A	FENCE
[Symbol]	(LOD)	STOP SIGN, STREET SIGN
[Symbol]	(LOD)	LIMIT OF DISTURBANCE
[Symbol]	(SSF)	SUPER SILT FENCE
[Symbol]	(CFL)	COMPOST FILTER LOG
[Symbol]	(OCF)	ORANGE CONSTRUCTION FENCING
[Symbol]	[Symbol]	EROSION MATTING
[Symbol]	N/A	SHRUB LINE
[Symbol]	N/A	TREE
[Symbol]	TS(A)(1)	TEMPORARY SWALE, TYPE A, STABILIZATION METHOD #1 (SEE DETAIL)

EXISTING	PROPOSED	DESCRIPTION
N/A	[Symbol]	STONE CHECK DAM
N/A	[Symbol]	STABILIZED CONSTRUCTION ENTRANCE
N/A	[Symbol]	EROSION CONTROL MATTING (SLOPE/CHANNEL)
N/A	[Symbol]	RIPRAP OUTLET SEDIMENT TRAP
N/A	[Symbol]	PIPE OUTLET SEDIMENT TRAP
N/A	[Symbol]	TEMPORARY SEDIMENT BASIN
N/A	[Symbol]	DEWATERING BASIN TYPE-2
N/A	[Symbol]	RIP-RAP STILLING BASIN
N/A	[Symbol]	CULVERT INLET PROTECTION
N/A	[Symbol]	SKIMMER DEWATERING DEVICE
N/A	[Symbol]	PIPE DEWATERING DEVICE
N/A	[Symbol]	GEOTEXTILE DEWATERING BAG

**STAGE-4:**  
 SEDIMENT BASINS-  
 1. SEDIMENT BASIN 2.2.A/2.2.B (SHEETS-09,87)  
 2. SEDIMENT BASIN 2.2.A (SHEETS-08,83,87)  
 3. SEDIMENT BASIN 2.2.2 (SHEETS-08,83,87)

SEDIMENT TRAPS-  
 1. STONE OUTLET SEDIMENT TRAP 2.2.8 (SHEETS-08,86)  
 2. STONE OUTLET SEDIMENT TRAP 2.1.5 (SHEETS-09,86)

DEWATERING BASINS  
 1. DEWATERING BASIN #FES-23 (SHEET 09,88)  
 2. DEWATERING BASIN #FES-24 (SHEET 09,88)

VEGETATED CHANNEL STAGE 1 (SHEETS 83)

STONE CHECK DAMS (SHEET 85)

COMPOST FILTER LOG (SHEET 86)

THE PURPOSE OF THIS PLAN IS TO SHOW STAGE 4 PRE-BULK CONSTRUCTION. NET CUT: 4246.59 CY NET FILL: 6867.57 CY VALUES REPRESENT 10% CUT AND FILL FACTORS--PROPOSED SURFACE REPRESENTS FINAL GRADES AND DOES NOT ACCOUNT FOR IMPROVEMENTS SUCH AS ROADWAY THICKNESS, BUILDING FOUNDATIONS, UTILITY TRENCHES, ETC.

**ENGINEERING APPROVAL**  
 Aug 28, 2014  
 REVIEWED BY  
 Michael Clendaniel P.E.

APPLICATION NO.: 2011-0168-S  
**PRE-BULK GRADING STAGE 4  
 EROSION & SEDIMENT CONTROL PLAN**  
**WHITEHALL**  
 LOREWOOD GROVE ROAD  
 ST. GEORGES HUNDED NEW CASTLE COUNTY  
 DELAWARE  
 SCALE: 1" = 50'  
 DECEMBER 19, 2012

NO.	DATE	REVISION	BY	APPROVED
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4	3/18/14	PER NCC COMMENTS	WJL	CBC
3	11/12/13	PER NCC COMMENTS	WJL	CBC
2	10/1/13	PER NCC COMMENTS	WJL	CBC
1	07/22/13	PER NCC COMMENTS (2/26/13)	WJL	CBC

VANDEMARK & LYNCH, INC. IS NOT RESPONSIBLE FOR ANY MODIFICATION MADE TO THIS PLAN AND/OR CADD FILE WITHOUT ITS WRITTEN AUTHORIZATION.

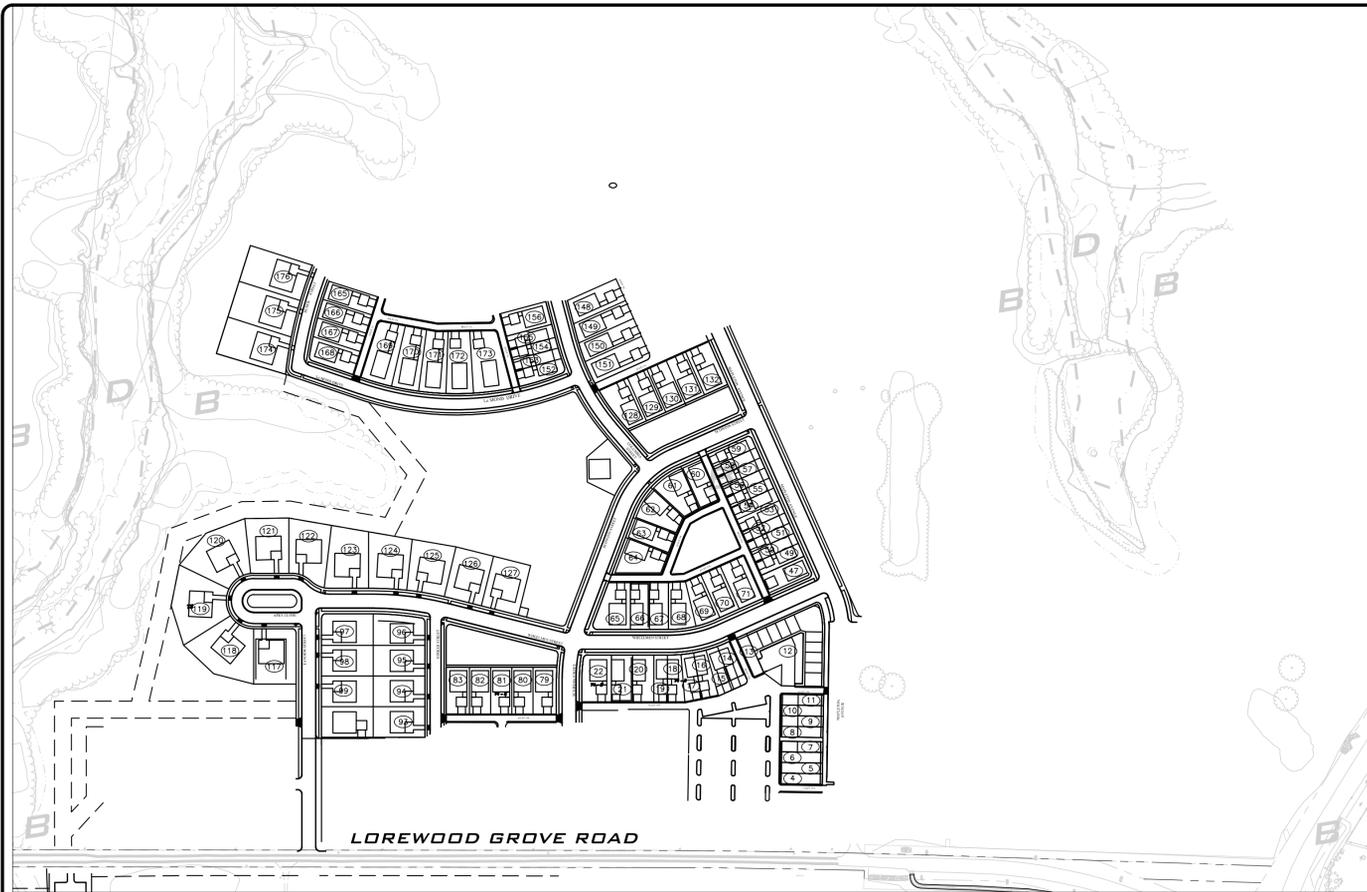
**VANDEMARK & LYNCH, INC.**  
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 4305 MILLER ROAD  
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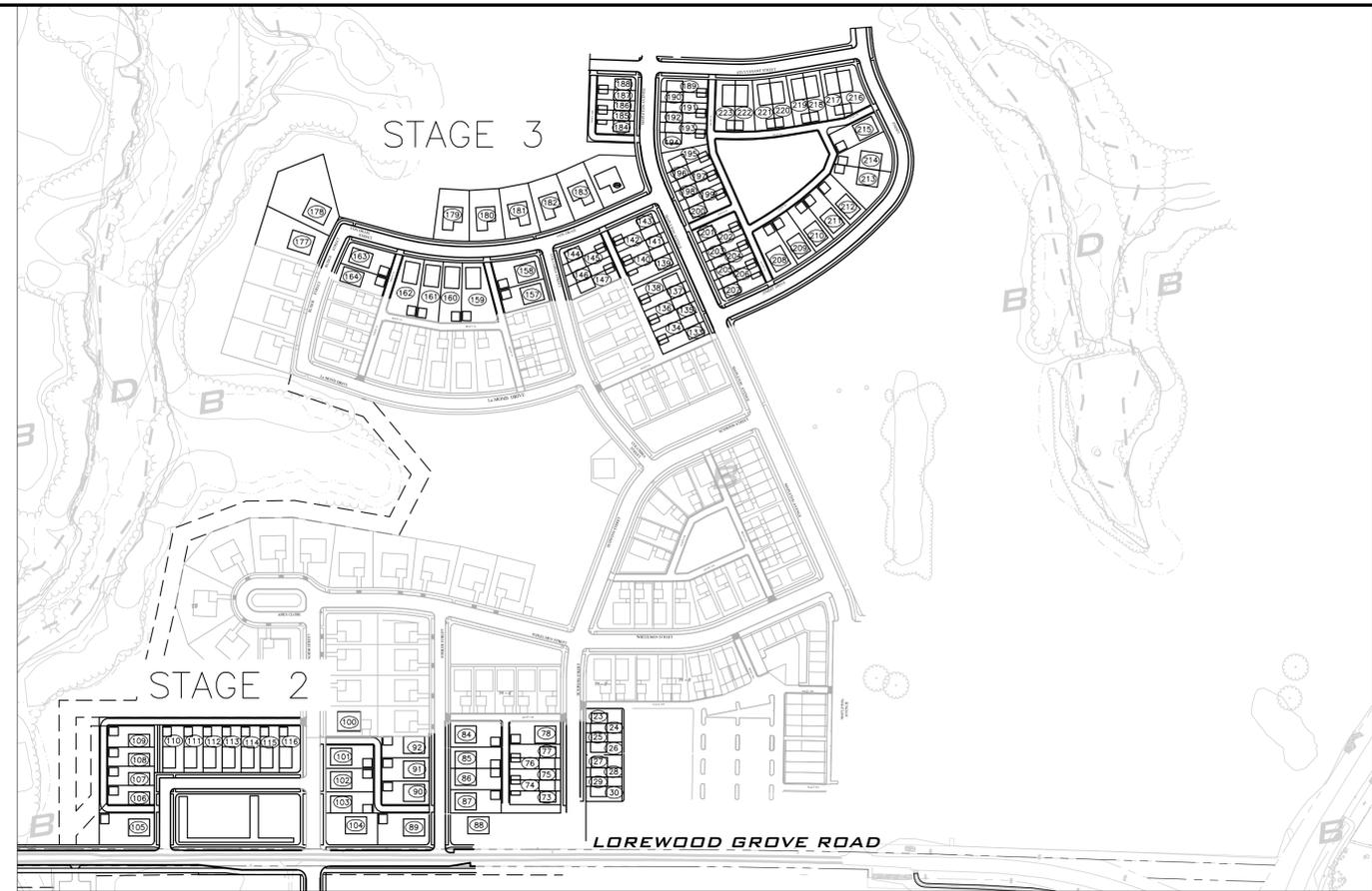
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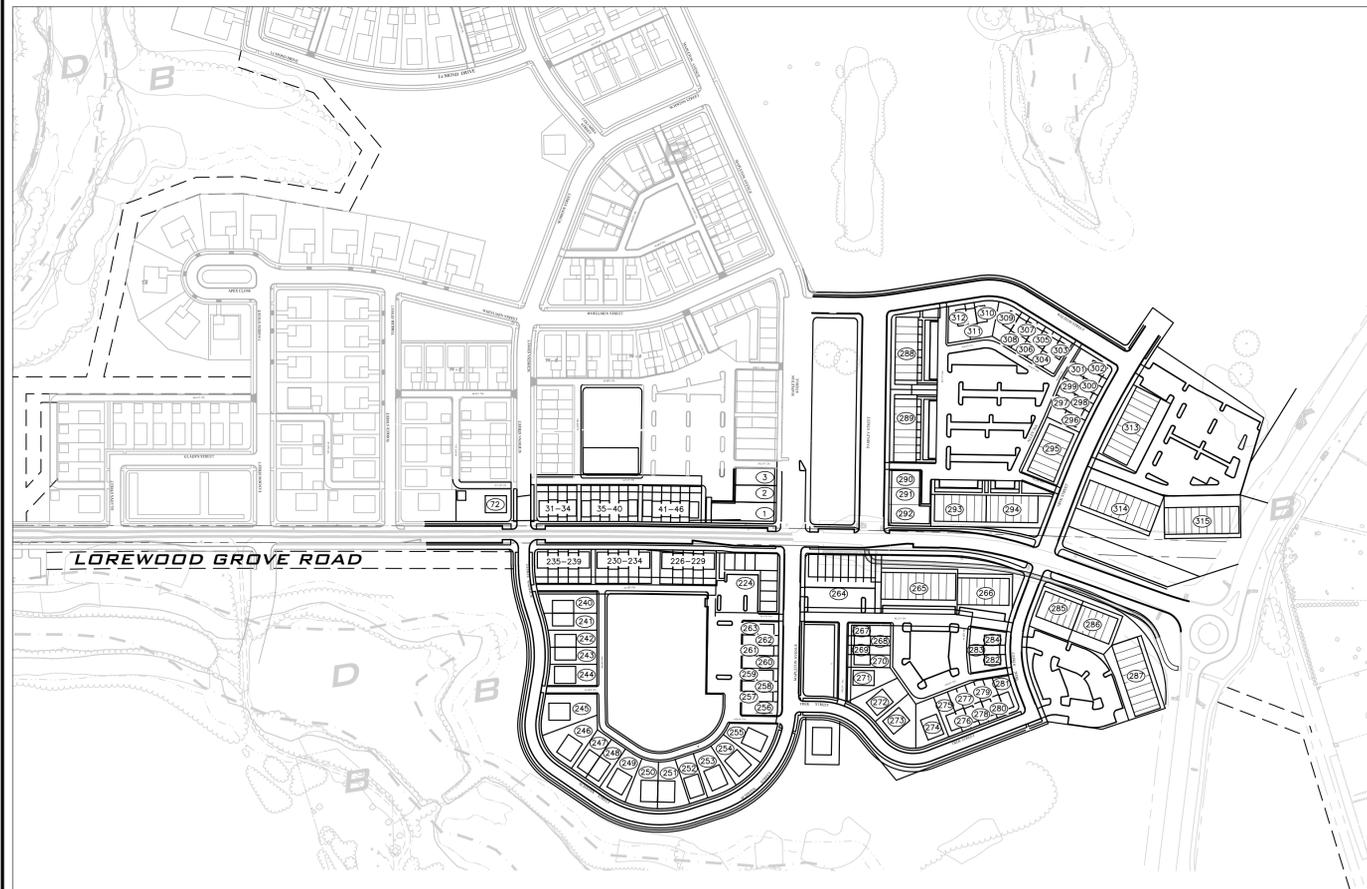
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VILLAGE 1 STAGE 1



VILLAGE 1 STAGE 2 AND 3



VILLAGE 1 STAGE 4

THE PURPOSE OF THIS PLAN IS TO SHOW THE PROGRESSIVE BUILD-OUT FOR MAPLETON "VILLAGE-1" WHITEHALL

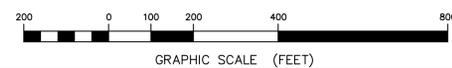
PHASING SCHEDULE	Column1	Column2	Column3	Column4
	STAGE 1	STAGE 2	STAGE 3	STAGE 4
AREA (ACRES)	30.89	15.10	29.56	43.69
PROPOSED LOT NO.	4-22, 65-71, 79-83, 93-100, 117-132, 148-156, 47-64, 165-176 (94 LOTS) SANITARY PUMP STATION OFFSITE FORCE MAIN AND GRAVITY SYSTEM	23-30, 73-78, 84-92, 101-116 (39 LOTS)	133-147, 157-164, 177-223 (71 LOTS)	1-3, 31-46, 72, 224-315 (113 LOTS)
PROPOSED ROADS	MAPLETON AVENUE (0+00 - 13+25) WHEELMEN STREET (0+00 - 6+32.10) SCHWINN STREET 3+25-6+85 WHEELMEN (0+00 - 6+35.44) APEX ROAD (0+00 - 4+08.50) TANDEM STREET (1+00 - 6+05.00) TORKER STREET (3+50 - 5+89.59) LEMOND DRIVE (0+00-6+88.77) RUDGE STREET (6+88.77-9+30) COLUMBIA STREET (0+00-4+75) LEMOND DRIVE (0+00-5+55)	SCHWINN STREET (1+37 - 4+62.00) TORKER STREET (0+00 - 3+50) GLADYS STREET (0+00 - 5+18.56) LGR (22+88.53 - 34+07) TANDEM STREET (0+00-1+00)	MAPLETON AVENUE (13+25 - 20+12.92) COLUMBIA STREET (4+75.00 - 6+05.43) VON DRAIS STREET (5+20 - 20+12.92) STUVESANT STREET (0+00 - 8+52.77) LEMOND DRIVE (5+55-6+89) ZIMMY DRIVE (0+00 - 11+89.66) RUDGE DRIVE (9+30-10+29)	PASHLEY STREET (0+00 - 5+48.68) SOUTH TREK STREET (0+00 -10+19.16) RALIEGH STREET (0+00 - 8+39.90) NORTH TREK STREET (0+00 - 6+00.00) LOREWOOD (34+07 - 53+05.69) SOUTH MAPLETON AVENUE (0+00 - 17+06.17) VON DRAIS STREET (10+29-18+07)



ENGINEERING APPROVAL  
Aug 28, 2014  
REVIEWED BY  
Michael Clendaniel P.E.

APPLICATION NO.: 2011-0168-S  
STAGING, AREAS 1-4  
EROSION & SEDIMENT CONTROL PLAN  
WHITEHALL  
LOREWOOD GROVE ROAD

ST. GEORGES HUNDRED NEW CASTLE COUNTY  
DELAWARE  
SCALE: 1" = 200' DECEMBER 19, 2012



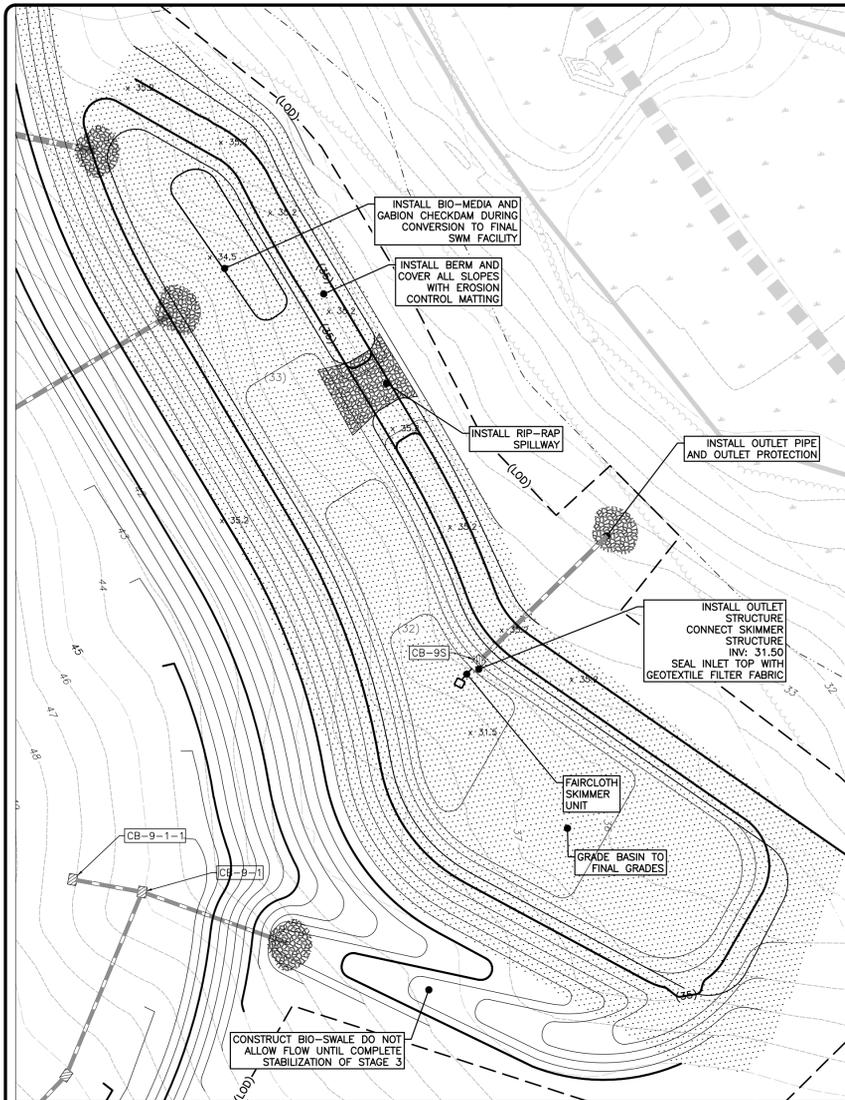
NO.	DATE	REVISION	BY	APPROVED
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3	11/12/13	PER NCC COMMENTS	WJL, JH	CBC
2	10/1/13	PER NCC COMMENTS	WJL, JH	CBC
1	07/22/13	PER NCC COMMENTS (2/26/13)	WJL, JH	CBC

VANDEMARK & LYNCH, INC. IS NOT RESPONSIBLE FOR ANY MODIFICATION MADE TO THIS PLAN AND/OR CADD FILE WITHOUT ITS WRITTEN AUTHORIZATION.

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ENGINEERS - PLANNERS - SURVEYORS  
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REVISION SHEET  
**4** OF **91**

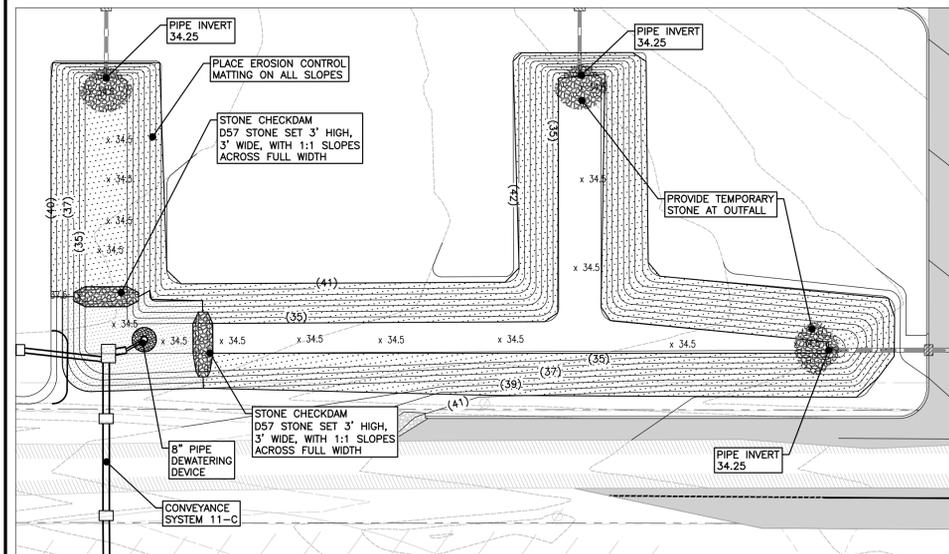
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COMPUTED BY:	<b>20968.00-EROS-05</b>	<b>4</b>	<b>07</b> OF <b>91</b>
PROJECT MANAGER:	PERMANENT FILE:	QA REVIEW:	SIZE:
C. COBAUGH	074/304, 074/308		L
DRAWN BY:	APPROVED BY:		<b>07</b>
J. HARRINGTON, W. JOHNSON			



SEDIMENT BASIN 3.2.3

STAGE 3

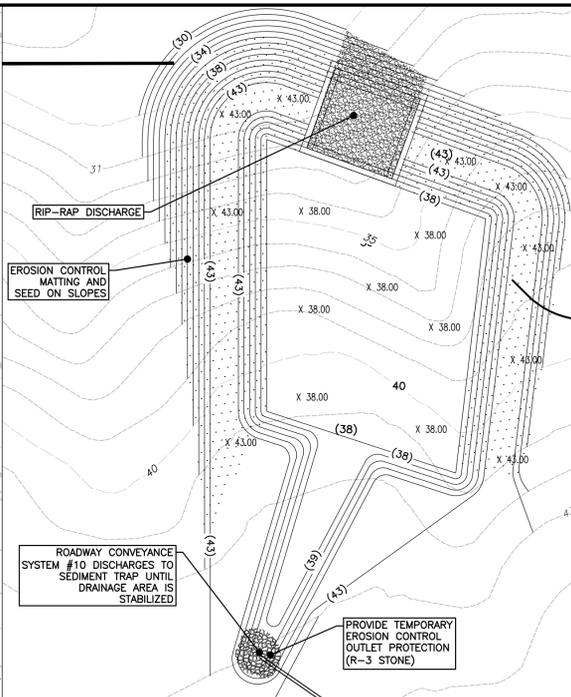
- NOTES:
1. RIP-RAP TRAP 3.2.3 IS EQUIPPED WITH A SKIMMER DEWATERING DEVICE. THE RIP-RAP SPILLWAY IS DESIGNED AS IF-IT WERE THE PRIMARY OUTLET STRUCTURE.
  2. A FAIRCLOTH SKIMMER UNIT (OR EQUIVALENT) SHALL BE CONNECTED TO THE OUTLET STRUCTURE AT ELEVATION 31.50
  3. THE SKIMMER DEWATERING DEVICE SHALL BE CONNECTED WITH A 4" PIPE. REFER TO THE SKIMMER DETAIL FOR ADDITIONAL INFORMATION.



PIPE OUTLET SEDIMENT TRAP 2.3.1

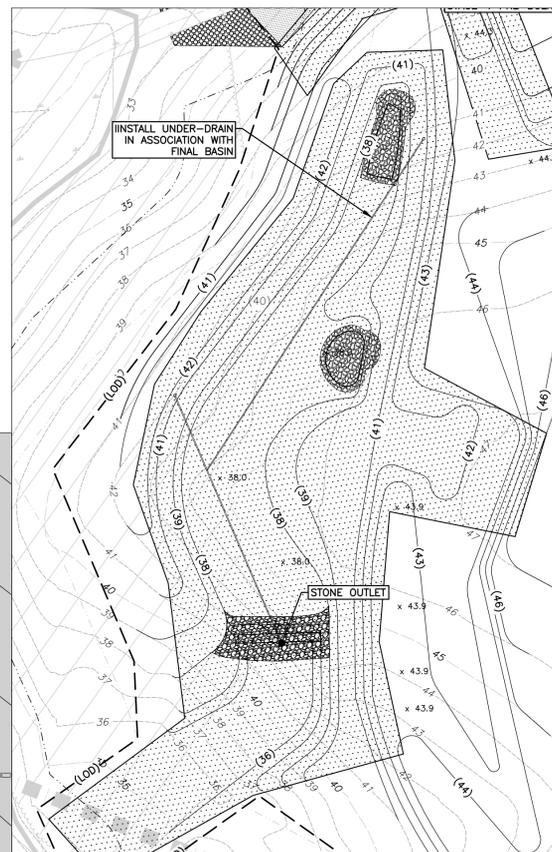
STAGE 1

- NOTES:
1. THE SHAPE AND CONFIGURATION OF PIPE OUTLET SEDIMENT TRAP 2.3.1 IS INTENDED TO RESEMBLE SWM FACILITY 2.3.1. STONE OUTLETS IN THE FORM OF CHECK DAMS SHALL BE POSITIONED WITHIN THE CHANNELIZED BASIN WHERE SHOWN.
  2. AN 8" PIPE DEWATERING DEVICE WILL BE CONNECTED TO CB-11-C3 WHERE SHOWN.
  3. INUNDATION OF SEDIMENT TRAP 2.3.1 WILL OVER-FLOW THROUGH THE GRATE OF CATCH-BASIN STRUCTURE 11-C-3
  4. THE INVERT OF THE SEDIMENT TRAP SHALL BE NO LOWER THAN ELEVATION 34.5 DURING SEDIMENT TRAPPING OPERATIONS.
  5. DURING CONVERSION TO SWM FACILITY 2.3.1, THE CONTRACTOR SHALL OVER EXCAVATE THE BOTTOM OF THE FACILITY TO ELEVATION 33.75. ALL SEDIMENT SHALL BE REMOVED AND INSTALLATION OF SWM FACILITY 2.3.1 SHALL COMMENCE.
  6. THE CONTRACTOR SHALL WORK FROM THE SIDES OF THE FACILITY FOR EXCAVATION TO PREVENT OVER-COMPACTING OF THE FACILITY BOTTOM.



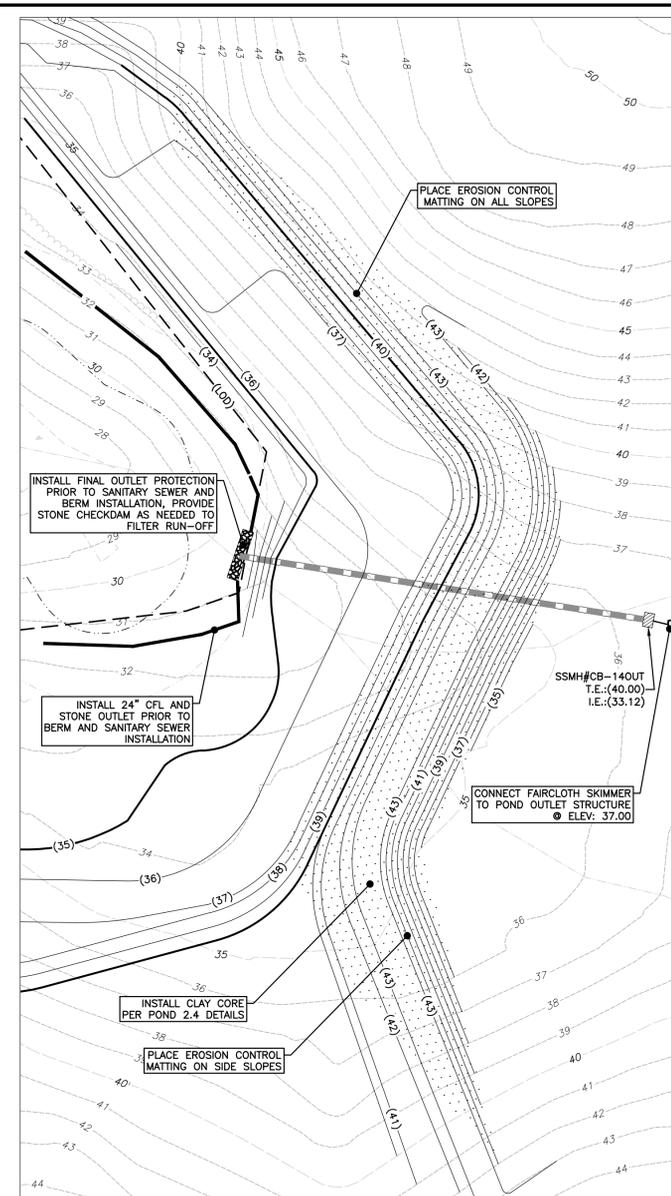
SEDIMENT TRAP LOT 122

STAGE 3



STONE OUTLET SEDIMENT TRAP 2.2.8

STAGE 3

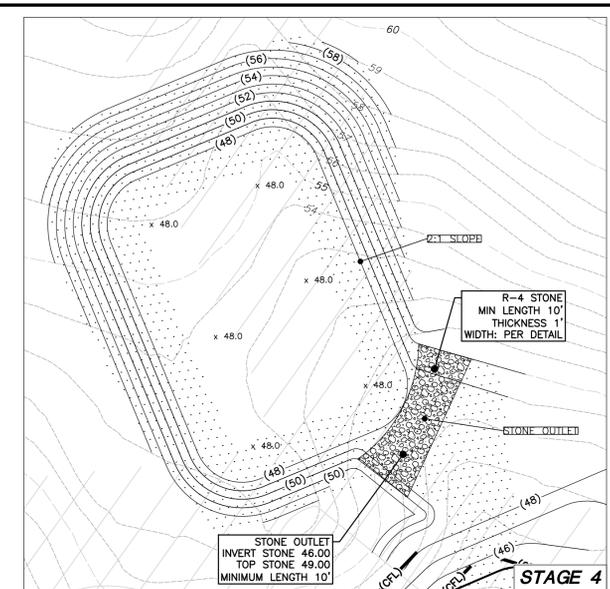


SEDIMENT BASIN 2.4

STAGE 1

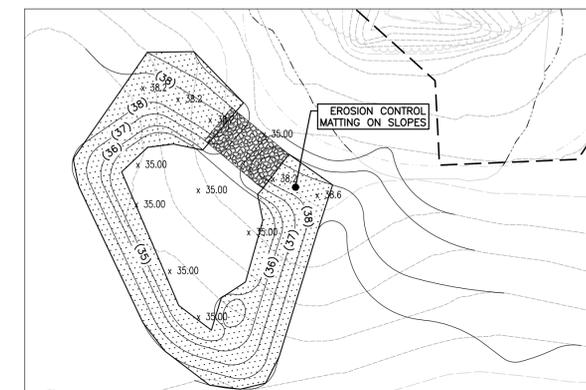
- NOTES:
1. REFER TO SHEET 90 FOR SPECIFIC INSTRUCTIONS REGARDING SEDIMENT BASIN 2.4 CONVERSION TO POND 2.4
  2. CONSTRUCTION OF APEX ROAD WILL CREATE A SUMPED CONDITION PRIOR TO CONVEYANCE SYSTEM 10 DISCHARGING TO BIO-SWALE 2.4.2. FLOW TO CB-10-3 MAY DISCHARGE TO SEDIMENT TRAP LOT 122 DURING BULK GRADING.
  3. TEMPORARY SWALE #3 SHALL DISCHARGE TO SEDIMENT TRAP 2.2.8. THE STONE OUTLET STRUCTURE MAY INCLUDE THE 3' GABION CHECK-DAM THAT IS INCLUDED IN THE FINAL DESIGN. REFER TO THE STONE OUTLET DETAIL AND SHEET 86 FOR SIZE AND DIMENSIONS.
  4. TEMPORARY SWALE #4 SHALL DISCHARGE TO STONE OUTLET SEDIMENT TRAP 2.1.5. (SEE STAGE 4) REFER TO SHEET 86 FOR SIZING AND SHEET 88 FOR TRAP DETAIL. THE CONTRACTOR IS ENCOURAGED TO REVIEW THE FINAL LOCATION FOR ANY POOL STRUCTURES THAT ARE PROPOSED TO RELOCATE THE TRAP TO THESE LOCATIONS. THE CONTRACTOR SHALL ENGAGE THE DESIGN ENGINEER AND NEW CASTLE COUNTY DEPARTMENT OF LAND USE FOR ANY CHANGES IN LOCATION ASSOCIATED WITH DEVELOPMENT OF THIS LOT.
  5. THE BOTTOM INVERT OF STONE OUTLET SEDIMENT TRAP 2.5.1 MAY BE EXCAVATED TO ELEVATION 32.00 TO ESTABLISH A PERMANENT POOL AREA IF DESIRED. DO NOT OVER EXCAVATE BELOW ELEVATION 31.00. REFER TO TRAP DETAIL ON SHEET 81 AND TRAP DESIGN INFORMATION ON SHEET 86. REFER TO SHEET 89 FOR NOTES ON CONVERSION TO BIO-RETENTION STRUCTURE 2.5.1
  6. RIP-RAP OUTLET TRAP 2.4.6 IS LOCATED ON LOT 174. THE CONTRACTOR SHALL INSTALL TRP 2.4.6 AND IMMEDIATELY INSTALL BIO-SWALE 2.4.6 TO ALLOW TIME FOR PROPER SEEDING AND PLANT GROWTH. CONVEYANCE ASSOCIATED WITH THE NUMBER 4 CONVEYANCE SYSTEM SHALL BE DIRECTED TO SEDIMENT RAP 2.4.6 UNTIL COMPLETE STABILIZATION OF THE 2.4.6 DRAINAGE AREA. A TEMPORARY PIPE (SHOWN) OR TEMPORARY SWALE MAY BE USED TO DIVERT CONVEYANCE SYSTEM 4 TO TRAP 2.4.6. ANY CONVEYANCE METHOD SHALL BE STABILIZED. REFER TO RIP-RAP TRAP DETAIL AND DESIGN INFORMATION ON SHEET 86 AND 87.

- NOTES:
1. REFER TO SHEET 83 FOR ALL DEWATERING SKIMMER SIZES AND DETAIL.
  2. REFER TO SHEETS 86 & 87 FOR SEDIMENT TRAP / BASIN SIZES, VOLUME, AND OUTFALL-STRUCTURE ELEVATIONS.



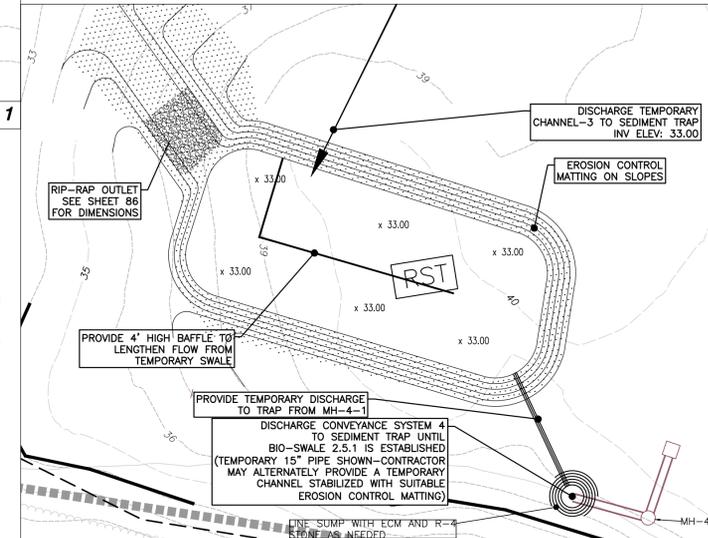
STONE OUTLET SEDIMENT TRAP 2.1.5

STAGE 4



STONE OUTLET SEDIMENT TRAP 2.5.1

STAGE 3



RIP-RAP SEDIMENT TRAP 2.4.6

STAGE 1

THE PURPOSE OF THIS PLAN IS TO SHOW GRADING ASSOCIATED WITH SEDIMENT TRAPS AND SEDIMENT BASINS.

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5	8/21/14	PER NCC COMMENTS	WJL	CBC
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1	07/22/13	PER NCC COMMENTS (2/26/13)	WJL, JH	CBC

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**V&L**  
VANDEMARK & LYNCH, INC.  
ENGINEERS - PLANNERS - SURVEYORS  
4305 MILLER ROAD  
WILMINGTON, DE 19802/(302) 764-7635  
WWW.VANDEMARKLYNCH.COM

COMPUTED BY: C. COBAUGH  
PROJECT MANAGER: C. COBAUGH  
DRAWN BY: J. HARIJANTO, W. JOHNSON

FILE NAME: 20968.00-EROS-08  
PERMANENT FILE: 074/304, 074/308  
QA REVIEW: [ ]  
SIZE: L  
APPROVED BY: [ ]

REVISION: 4  
SHEET: 08 OF 91

DATE: 08



ENGINEERING APPROVAL  
Aug 28, 2014  
REVIEWED BY  
Michael Clendaniel P.E.

APPLICATION NO.: 2011-0168-S  
PRE-BULK SEDIMENT BASINS AND TRAPS  
EROSION & SEDIMENT CONTROL PLAN

**WHITEHALL**  
LOREWOOD GROVE ROAD

ST. GEORGES HUNDRED NEW CASTLE COUNTY  
DELAWARE

SCALE: 1" = 30' DECEMBER 19, 2012

