IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEET ALL OF THE REQUIREMENTS PLANS. THE PROJECT IS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS PER NO FOREST STAND DELINEATION PERFORMED FOR THE PREPARATION OF THESE BOUNDARY SURVEY AS DEFINED BY COMAR REGULATION. REFERENCED TO N.A.V.D. 88. EXISTING UTILITIES SHOWN ARE TAKEN FROM FIELD RECOMMENDED PRACTICES AS DESCRIBED IN THE C.C.Z.O. ARTICLE 6-6.01. FIXTURES NOTIFY THE CALVERT COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS, (410) 535-2155, THE CALVERT COUNTY SOIL CONSERVATION DISTRICT, (410) 535-1521, AND CONSIDERED IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS. OR IF ANY ERRORS OR OMISSIONS ARE DISCOVERED IN THE LINES, GRADES AND WORK UNLESS OTHERWISE STATED.

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF: COLLINSON, OLIFF AND DOWELL, MD 20629

STACEY HANN-RUFF
PHONE: 410-326-4640

7/2/18
BD OF COMMISSIONERS OF CALVERT COUNTY

ANNMARIE GARDENS ~ SPR 2018 - 282
WILDFLOWER MEADOW & PATIO
TM 44 GRID 11 PARCEL 389 - 13480 DOWELL RD
FIRST DISTRICT, CALVERT COUNTY
DOWELL, MARYLAND 20629
FOR: KOENIG PRIVATE FOUNDATION

LAND COVERAGE (LOD)
STANDARD REFUSE: ON-SITE TRASH ENCLOSURE

UTILITY - WATER LINE
UTILITY - OVER HEAD WIRES
RETAINING WALL
PAVEMENT - SITE
BUILDING
GUARD RAIL
SIGN

INDEX OF DRAWINGS

SITE PLAN NOTES

SITE DATA BLOCK
DESCRIPTION
LEGEND
LIST OF ABBREVIATIONS

AGENCY APPROVAL STAMPS

DEPT. OF PUBLIC WORKS STATEMENT

BENCHMARK INFORMATION - NAD 83 & NAVD 38

SITE PLAN NOTES

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DEPT. OF PUBLIC WORKS STATEMENT

BENCHMARK INFORMATION - NAD 83 & NAVD 38
44. SITE WORK SPECIFICATIONS

45. SITE WORK SPECIFICATIONS (CONT.)

1. GRADING:

   a) Under excavations and backfill, use satisfactory excavated or borrow material.
   b) Under piping and conduit, use subbase material where subbase is indicated.
   c) Walkways: compact each layer of backfill or fill.
   d) Under piping and conduit, use subbase material where subbase is indicated.
   e) Site construction stated on these plans shall be in accordance with the Maryland Department of
      the Environment, the Calvert County Stormwater Management Ordinance, May 4, 2010, and the

2. Drainage:

   a) All storm drains, inlets, and underground storage shall be provided in accordance with the
      Maryland Department of the Environment, the Calvert County Stormwater Management
      Ordinance, May 4, 2010, and the USDA Natural Resources Conservation Service Conservation
      Practice Standard Pond Code 378.
   b) Sanitary, storm, and street drain inlets shall be provided in accordance with the requirements
      of the Calvert County Stormwater Management Ordinance, May 4, 2010, and the USDA
   c) Storm sewers to be installed in accordance with the Calvert County Stormwater Management
      Ordinance, May 4, 2010, and the USDA Natural Resources Conservation Service Conservation
      Practice Standard Pond Code 378.

3. Sediment and Erosion Control:

   a) Site soil borings for earthwork operations performed for the preparation of this site shall be
      sampled for each underground utility and contractor's access road. No site soil borings for
      earthwork operations performed for the preparation of this site shall be taken closer than 15 feet
      of the limits of disturbance and inspected prior to issuance of any building permits.
   b) All native and newly seeded slopes shall be protected by approved erosion protection
      measures.
   c) All native and newly seeded slopes shall be protected by approved erosion protection
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   y) All native and newly seeded slopes shall be protected by approved erosion protection
      measures.
   z) All native and newly seeded slopes shall be protected by approved erosion protection
      measures.

4. Water Management:

   a) All storm drains, inlets, and underground storage shall be provided in accordance with the
      Maryland Department of the Environment, the Calvert County Stormwater Management
      Ordinance, May 4, 2010, and the USDA Natural Resources Conservation Service Conservation
      Practice Standard Pond Code 378.
   b) Sanitary, storm, and street drain inlets shall be provided in accordance with the requirements
      of the Calvert County Stormwater Management Ordinance, May 4, 2010, and the USDA
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      measures.
   z) All native and newly seeded slopes shall be protected by approved erosion protection
      measures.
**Sediment & Erosion Control Plan**

**Keyed Notes**
- **Note:** Quantities are for obtaining permits only. Quantities to be verified by contractor.
- **Earthwork Cut / Fill**
  - Earth Dike
- **Erosion Control**
  - Super Silt Fence
  - Silt Fence
  - Stabilized Construction Entrance
  - Vegetated Area

**Diagram Details**
- **Board of County Commissioners of Calvert County, Maryland**
  - A/B: 38/34

**Contact Information**
- **Collinson, Oliff & Associates, Inc.**
  - Thomas Kadjeski, MD PE #:
  - 410-535-3101
  - 301-855-1599
  - 13489 Dowell Rd
  - Dowell, Maryland 20629

**Certification**
- **I hereby certify that these documents were prepared or approved by the State of Maryland, License No.:**
  - SPR #:
  - TM 44 Grid 11 Parcel 389

**Sequence of Site Construction**
- **Demo Key Notes**
  - **Note:** Existing bollards light to be relocated. See Sheet C 5.0
  - **Note:** Existing tree to remain. Tree branch and root pruning to be performed prior to construction.

**Preservation Planner**
- **Note:** Contact the appropriate preservation planner at (410) 610-1110 to have resources identified and minimize any potential delay to the project.

**Historic Preservation**
- **Note:** Contact the Historic Preservation Planner at (410) 535-2155 at least 48 hours prior to construction.

**Erosion Control**
- **Note:** All sediment controls shall be regularly inspected and maintained, at a minimum after each rainfall event and throughout the life of this construction.

**Sediment & Erosion Control Procedures**
- **Note:** Stormwater management facilities shall be protected from construction activities by perimeter controls protecting filter media being installed.

**Site Preparation and Construction**
- **Note:** Construction equipment shall be prohibited from compacting the area.

**Stabilization**
- **Note:** All disturbed areas shall be stabilized. All proposed grass areas to be stabilized with topsoil.

**Permits**
- **Note:** Demolition plans shall be submitted to the appropriate permit authority for review and approval. Upon approval, permits shall be obtained prior to demolition.

**Construction Equipment**
- **Note:** Construction equipment shall not be utilized until upstream drainage areas are stabilized and/or approved plans. Fine grade and install paving sub base.

**Sediment & Erosion Control Plan**
- **Note:** Sediment control practices will be maintained according to the Maryland 2011 other land disturbance act until the inspecting agency has approved the project.

**Timber Weir**
- **Note:** Timber weir shall be 12" deep cobbles.

**Demolition Plan**
- **Note:** Areas noted to be removed shall be removed to the limits and grades shown on the approved plans. Fine grade and install paving sub base.

**Equipment**
- **Note:** All equipment shall be properly covered to prevent扬尘 during transportation.

**Table:**
- **Sequence of Site Construction**
  - **Description:**
    - **Earthwork Cut / Fill:**
      - **SSF:**
        - **SSF:**
          - **SSF:**
            - **SSF:**
              - **SSF:**

**Scale:**
- **Note:** Indicates original scale.
**Micro-Bioretenption System Detail**

**Micro-Bioretenption Construction, Inspection, and Maintenance Criteria:**

**Contractor Criteria:**
- Erosion and Sediment Control: Micro-bioretenption practices shall be constructed in accordance with the approved construction plans. All construction activities shall be conducted under a certified sediment control plan.
- Set-Compaction: Excavation shall be conducted in conjunction with aggregate placement at the proper rate to maintain the shape and surface elevation.

**Maintenance Criteria:**
- Underdrain Inspection: Clean the underdrain system shall be made free of silt and sediment. Gravel for the underdrain system should be clean, washed, and free of fines.
- Filter Media Inspection: Bioretention soils may be missed on-site before placement. However, soils should be placed with proper compaction and water control.

**History:**
- Oct. 2018
- 1/13/2021
- Job No. 2018-282
- MAE

**Purpose:** Details for an investor-owned bioretention system have been designed by Joseph Kadjeski.

**Certification:**
Joseph Kadjeski, PE, certifies that the Stormwater Management Facilities shown on the plans have been designed by Joseph Kadjeski.

**Additional Notes:**
- The plans include details for the installation of bioretention soils, underdrain systems, and sediment control practices.
- The plans also include details for the installation of planting soils, plant species, and soil amendments.

**References:**
- Micro-Bioretenption Design Table
- LANDSCAPE PLAN
- AS-BUILT CERTIFICATION
RAINWATER HARVESTING MAINTENANCE, CONSTRUCTION & INSPECTION

SPRING / SUMMER
- Clear gutters at least once a year and cistern filter / screen as needed of leaf material, sticks, and other debris to prevent clogging and to prevent growth of bacteria.
- The water collected in your cistern should be used or drained completely at least every seven days. Mosquitoes breed in standing water.
- If your cistern is in direct sunlight, algae may grow in the water. If it happens, drain the cistern and flush well with a weak bleach solution (2 cups of bleach for each gallon of water). Rinse the cistern afterward.
- Do not drink the water from a cistern.

Fall / Winter
- Cistern should be disconnected, drained, and cleaned before the start of the cold season to avoid damage from freezing.
- Remember to reconnect your rain spout when your cistern is not in use to divert water away from the structure.
EROSION & SEDIMENT AND STORM DRAIN DETAILS

FILE #: B - 57 - 3

FOLDER REFERENCE: [Information not legible]

DATE: OCT. 2018

SCALE: AS SHOWN

APPROVED DRAWN BY: [Information not legible]

CASE NO. SPR: 2018-282

JOB NO.: 1-12812

FOR: KOENIG PRIVATE FOUNDATION

11/27/18 REVISED PER TEG COMMENTS 11-14-18

1/16/19 REV PER P&Z AND DPW COMMENTS

ANNMARIE GARDENS ~ SPR 2018 - 282

WILDFLOWER MEADOW & PATIO

TM 44 GRID 11 PARCEL 389 ~ 13480 DOWELL RD

FIRST DISTRICT, CALVERT COUNTY

DOWELL, MARYLAND 20629

COLLINSON, OLIFF & ASSOCIATES, INC.

SURVEYORS

ENGINEERS

LAND PLANNERS

P.O. BOX 2209 ~ 110 MAIN STREET

PRINCE FREDERICK, MARYLAND 20678

410-535-3101

+301-855-1599

FAX: 410-535-3103

EMAIL: INFO@COAINC.COM

SPR #: 2018-282

PLAN #: 3

6 IN MIN.

16 IN MIN.

2 IN x 4 IN FRAMING

SIP

EDGE OF ROADWAY OR TOP OF EARTH DIKE

EXCAVATE, BACKFILL AND COMPACT EARTH (TYP.)

POST DRIVEN INTO GROUND

FLOW NAILING STRIP

FLOW SIP

ACO DRAIN

Type A400:4490 Longitudinal stainless steel grate (304)

ACO DRAIN

Type A400:4490 Longitudinal stainless steel grate (304)

ACO DRAIN

Type A400:4490 Longitudinal stainless steel grate (304)
NOTES:
1. AGGREGATE SURFACE TO BE ASHTECH NO. 9 STONE WITH STONE DUST BINDER ADDED COLOR TO BE SELECTED BY OWNER.

2" COMPACTED AGGREGATE SURFACE (SEE NOTE 1)
FILTER / GEOTECH CLOTH MIRAFI-14ON OR EQUAL

3" COMPACTED GAB

PRO GRADE

HOLD GRAVEL 1/2" BELOW EDGING

RYERSON 3/16"X5" STEEL EDGING OR APPROVED EQUAL - ORDER OR PAINT BLACK

PRO GRADE

GRAVEL PATH & OUTDOOR CLASSROOM SECTION

SCALE: 1" = 0.5'

CONCRETE SIDEWALK DETAIL

STANDARD CONCRETE SIDEWALK SECTION

HEAVY DUTY CONCRETE SIDEWALK SECTION

PERVIOUS CONCRETE SECTION

FOUNDATION DETAIL

ASPHALT SIDEWALK DETAIL

LIGHT DUTY FENCE POST WITH PROTECTIVE PLASTIC CAP

LIGHT DUTY FENCE POST WITH PROTECTIVE PLASTIC CAP

NOTE:
FENCE POST SPACING SHALL NOT EXCEED 10' CENTER TO CENTER

CONSTRUCTION SPECIFICATIONS

GROUND 48" GROUND 48"

TEMPORARY PROTECTION FENCE

NOTE:
FENCE POST SPACING SHALL NOT EXCEED 10' CENTER TO CENTER

6" X 6" WWM (6" X 6" W1.4 X W1.4)

6" GAB COMPACTED SUBGRADE

4" OPEN GRADED BASE (NO. 57 STONE)

12" SUBBASE (NO. 2 STONE)

6.5" PERMEABLE CONCRETE

4" CONCRETE CURB & GUTTER SHOWN ON PLANS.

OR LANDSCAPED AREA AS SHOWN ON PLANS.

CONCRETE CURB & GUTTER OR LANDSCAPED AREA AS SHOWN ON PLANS.

NORMAL FINISH

SECTION 500.

CONCRETE SIDEWALK DETAIL

1/4" R 1" MIN. DUMMY JOINT

1/2" ISOLATION

4" CONCRETE

1% MIN 2% MAX SLOPE

6X6 10/10 WWM (6X6 W1.4XW1.4)

COMPACTED SUBGRADE 4" GAB

2" SURFACE COURSE SUBGRADE (SEE NOTE 1)

12" COMPACTED SUBGRADE

1. CONSTRUCTION TO BE PERFORMED WITH LIGHTWEIGHT, WIDE TRACKED EQUIPMENT TO MINIMIZE COMPACTION.

2. SUBBASE (NO. 2 STONE) TO EXTEND TO EXISTING GRADE (12" MINIMUM DEPTH).

3) PROVIDE A CONTROL JOINT AT A MAXIMUM 5' SPACING.

4" GAB

COMPACTED SUBGRADE