PROJECT DESCRIPTION:

A RAIN GARDEN WILL BE IMPLEMENTED IN THE SOUTH-EAST GRASSED AREA FACING BENHAM HILL ROAD COLLECTING STORMWATER RUNOFF FROM THE ADJACENT DRIVEWAY OF THE ALMA E. PAGEL SCHOOL.

LOCATION MAP:

LEGEND:

1. ELEVATION DATA OBTAINED FROM NOAA DIGITAL COASTAL LIDAR.
2. ANY OVERHEAD AND UNDERGROUND UTILITIES SHOWN ARE FROM FIELD OBSERVATIONS AND ARE NOT A COMPLETE REPRESENTATION. A UTILITY MARKOUT NEEDS TO BE CONDUCTED PRIOR TO MOBILIZATION. NJ ONE CALL: 811 OR 800-272-1000
WOODMONT ROAD
BENHAM HILL ROAD
ALMA E. PAGELS ELEMENTARY SCHOOL
EXISTING CATCH BASIN
EXISTING LIGHT POLE
EXISTING UTILITY POLE
EXISTING LIGHT POLE
EXISTING UTILITY BOXES
EXISTING TREE
EXISTING SIDEWALK
EXISTING UTILITY POLE
EXISTING FLAG POLE
EXISTING CATCH BASIN
EXISTING UTILITY POLE
EXISTING UTILITY POLE
EXISTING LIGHT POLE
EXISTING UTILITY POLE
EXISTING LIGHT POLE
EXISTING FIRE HYDRANT
EXISTING MANHOLE
EXISTING EXACT EXISTING PIPE LOCATION TO BE DETERMINED IN THE FIELD

PLAN NOTES:
1. CONTRACTOR SHALL SCHEDULE MEETING WITH ENGINEER AND PROPERTY OWNER PRIOR TO MOBILIZATION.
2. CONTRACTOR SHALL VERIFY ALL INFORMATION INCLUDING ELEVATIONS AND UTILITIES PRIOR TO MOBILIZATION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED APPROVALS FROM AUTHORITIES WITH JURISDICTION OVER PROPOSED WORK.
4. CONTRACTOR SHALL COORDINATE UTILITY POLES PRIOR TO MOBILIZATION.
5. CONTRACTOR SHALL CONDUCT PERMEABILITY TESTING TO VERIFY ADEQUATE INFILTRATION RATES IF NOT PREVIOUSLY PERFORMED.
6. CONTRACTOR SHALL DEMO AND REMOVE ALL EXISTING ASPHALT PAVING AS SHOWN ON PLAN.
7. CONTRACTOR SHALL CONDUCT PRE-EXISTING SUFFICIENT TO VERIFY ADEQUATE INFILTRATION RATES IF NOT PREVIOUSLY PERFORMED.
8. CONTRACTOR SHALL CONDUCT PERMEABILITY TESTING TO VERIFY ADEQUATE INFILTRATION RATES IF NOT PREVIOUSLY PERFORMED.

SCALE 1" = 20'-0"

EXISTING PLAN

REVISIONS

No.   DATE  DESCRIPTION

04/25/19  APPROVED
CCO
MAL
DRAWN
MT

__________________________
DATE ________________

PROFESSIONAL ENGINEER - NJ LICENSE # 37532

SHEET NAME
ALMA E. PAGEL SCHOOL
RAIN GARDEN IMPLEMENTATION PROJECT
26 BENHAM HILL ROAD, WEST HAVEN
NEW HAVEN COUNTY, CT
EXISTING CONDITIONS AND DEMOLITION PLAN

P-1

DRAFT
1. CONTRACTOR SHALL SCHEDULE MEETING WITH ENGINEER AND PROPERTY OWNER PRIOR TO MOBILIZATION AND CONSTRUCTION.

2. CONTRACTOR SHALL VERIFY ALL INFORMATION INCLUDING ELEVATIONS AND UTILITIES PRIOR TO CONSTRUCTION.

3. CONTRACTOR SHALL Verify ALL PROPOSED MATERIALS WITH PROPERTY OWNER AND ENGINEER PRIOR TO CONSTRUCTION.

4. CONTRACTOR SHALL STAKE OUT LOCATIONS OF PROPOSED RAIN GARDENS, STONE CHANNELS, AND TRENCH DRAIN AND OBTAIN APPROVAL FROM ENGINEER PRIOR TO INSTALLATION.

5. CONTRACTOR SHALL INSTALL CONVENTIONAL ASPHALT PAVING ON PLAN. THE ASPHALT PAVING SHOULDN'T HAVE PLACED ELEVATION, AND PLACING EQUIPMENT, AT THE PROJECT SITE, AND THE ASPHALT PAVING SHOULDN'T HAVE PLACED ELEVATION, AND PLACING EQUIPMENT, AT THE PROJECT SITE.

6. CONTRACTOR SHALL INSTALL CONVENTIONAL ASPHALT PAVING ON PLAN. THE ASPHALT PAVING SHOULDN'T HAVE PLACED ELEVATION, AND PLACING EQUIPMENT, AT THE PROJECT SITE.

7. CONTRACTOR SHALL INSTALL CONVENTIONAL ASPHALT PAVING ON PLAN. THE ASPHALT PAVING SHOULDN'T HAVE PLACED ELEVATION, AND PLACING EQUIPMENT, AT THE PROJECT SITE.

8. CONTRACTOR SHALL GRADE SITE AS SHOWN ON PLAN. CUT SOIL SHALL BE REUSED ON SITE FOR FILL LOCATIONS.

9. CONTRACTOR SHALL GRADE SITE AS SHOWN ON PLAN. CUT SOIL SHALL BE REUSED ON SITE FOR FILL LOCATIONS.

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# PLANTING SCHEDULE

<table>
<thead>
<tr>
<th>TYPE</th>
<th>KEY</th>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>QUANTITY</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERENNIALS</td>
<td>AG</td>
<td>Andropogon gerardii</td>
<td>BIG BLUESTEM</td>
<td>35</td>
<td>1 QUART</td>
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<tr>
<td>PERENNIALS</td>
<td>AI</td>
<td>Asclepias incarnata</td>
<td>SWAMP MILKWEED</td>
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<td>PERENNIALS</td>
<td>AT</td>
<td>Asclepias syrtaca</td>
<td>COMMON MILKWEED</td>
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<tr>
<td>PERENNIALS</td>
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<td>Bapioa australis</td>
<td>BLUE FALSE INDIGO</td>
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<td>1 QUART</td>
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<td>PERENNIALS</td>
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<td>Coreopsis lanceolata</td>
<td>LANCE-LEAVED COREOPSIS</td>
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<tr>
<td>PERENNIALS</td>
<td>EC</td>
<td>Eupatorium coelestinum</td>
<td>BLUE MISTFLOWER</td>
<td>60</td>
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<tr>
<td>PERENNIALS</td>
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<td>Eupatorium macrostemon</td>
<td>SPOTTED JOE PYE WEED</td>
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<tr>
<td>PERENNIALS</td>
<td>ER</td>
<td>Elymus riparius</td>
<td>RIVERBANK WILD RYE</td>
<td>15</td>
<td>1 QUART</td>
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<tr>
<td>PERENNIALS</td>
<td>IR</td>
<td>Iris versicolor</td>
<td>BLUE FLAG</td>
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<td>1 QUART</td>
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<td>PERENNIALS</td>
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<td>Juncus effusus</td>
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<tr>
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<td>Osmunda cinnamomea</td>
<td>CINNAMON FERN</td>
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<td>1 QUART</td>
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<tr>
<td>PERENNIALS</td>
<td>OR</td>
<td>Osmunda regalis</td>
<td>ROYAL FERN</td>
<td>50</td>
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<tr>
<td>PERENNIALS</td>
<td>OS</td>
<td>Odocoileus virginiana</td>
<td>SENSITIVE FERN</td>
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<td>1 QUART</td>
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<tr>
<td>PERENNIALS</td>
<td>RF</td>
<td>Ruubbeckia fulgida</td>
<td>ORANGE CONEFLOWER</td>
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<td>1 QUART</td>
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<tr>
<td>PERENNIALS</td>
<td>VN</td>
<td>Veronemia novoeboracensis</td>
<td>NEW YORK IRONWEED</td>
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<tr>
<td>PERENNIALS</td>
<td>VP</td>
<td>Viola pallens</td>
<td>SMOOTH WHITE VIOLET</td>
<td>30</td>
<td>1 QUART</td>
</tr>
</tbody>
</table>

| SHRUBS | AA | Rudbeckia fulgida | RED CHOKEBERRY | 2 | 1 GAL. |
| SHRUBS | CA | Clethra alnfolia | SWEET PEPPERBUSH | 2 | 1 GAL. |
| SHRUBS | MP | Morrella pensylvanica | NORTHERN BAYBERRY | 2 | 1 GAL. |
| SHRUBS | SC | Sambucus canadensis | BLACK ELDERBERRY | 3 | 1 GAL. |
| SHRUBS | VC | Vaccinium corybosum | HIGHBUSH BLUEBERRY | 2 | 1 GAL. |

| TREES | BL | Betula lutea | YELLOW BIRCH | 1 | 2''-3'' CAL. |
| TREES | LS | Liquidambar styraciflua | SWEET GUM | 1 | 2''-3'' CAL. |
| TREES | PO | Platanus occidentalis | AMERICAN SYCAMORE | 1 | 2''-3'' CAL. |
| TREES | SN | Salix nigra | BLACK WILLOW | 1 | 2''-3'' CAL. |
ALMA E. PAGEL SCHOOL
RAIN GARDEN IMPLEMENTATION PROJECT
26 BENHAM HILL ROAD, WEST HAVEN
NEW HAVEN COUNTY, CT

DATE: 04/25/19
APPROVED: CCO
CHECKED: MAL
DRAWN: MT

CHRISTOPHER C. OBROPTA, Ph.D., P.E.
PROFESSIONAL ENGINEER - NJ LICENSE # 37532

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**REVISIONS**

<table>
<thead>
<tr>
<th>No.</th>
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</tr>
</thead>
</table>

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**RAIN GARDEN DETAILS**

**DT-1**

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**Concrete Flow Path Detail**

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**Curb Cut Cross-Section**

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**Inlet Protection Cross-Section**

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**Rain Garden Excavation Section**

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**Rock-lined Overflow Detail**
PLANTING SCHEDULE

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</thead>
<tbody>
<tr>
<td>PERENNIALS</td>
<td>AG</td>
<td>Andropogon gerardii</td>
<td>Big Bluestem</td>
<td>25</td>
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<td></td>
<td>AS</td>
<td>Asclepias incarnata</td>
<td>Butterfly Weed</td>
<td>20</td>
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<tr>
<td></td>
<td>AT</td>
<td>Asclepias tuberosa</td>
<td>Butterfly Weed</td>
<td>15</td>
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<tr>
<td></td>
<td>BA</td>
<td>Baptisia australis</td>
<td>False Indigo</td>
<td>15</td>
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<tr>
<td></td>
<td>CL</td>
<td>Coreopsis lanceolata</td>
<td>Tick Seed</td>
<td>20</td>
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<tr>
<td></td>
<td>EM</td>
<td>Eupatorium coelestinum</td>
<td>Joe Pyeweed</td>
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<td></td>
<td>IR</td>
<td>Elymus riparius</td>
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<td></td>
<td>JE</td>
<td>Juncus effusus</td>
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<td>Osmunda cinnamomea</td>
<td>Gunnera</td>
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<td></td>
<td>OR</td>
<td>Osmunda regalis</td>
<td>Royal Fern</td>
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<td>Osmunda sensibilis</td>
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<td>Rudbeckia fulgida</td>
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<td>VN</td>
<td>Vernonia novocanadensis</td>
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<td>Viola pallens</td>
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<td>SHRUBS</td>
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<td>Ribes aureum</td>
<td>Fothergilla</td>
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<tr>
<td></td>
<td>CA</td>
<td>Cistus monspessulanus</td>
<td>Sheet Peppermint</td>
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<td></td>
<td>NP</td>
<td>Micromeria x pantherina</td>
<td>Northern Bayberry</td>
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<tr>
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<td>SC</td>
<td>Sambucus canadensis</td>
<td>Black Elderberry</td>
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<tr>
<td></td>
<td>VC</td>
<td>Veronica sanguinea</td>
<td>Northern Bluebell</td>
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<td>1 GAL</td>
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<tr>
<td>TREES</td>
<td>BL</td>
<td>Betula lutea</td>
<td>Yellow Birch</td>
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<td>2-3 GAL</td>
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<tr>
<td></td>
<td>LS</td>
<td>Liriodendron tulipifera</td>
<td>White Oak</td>
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<td></td>
<td>PO</td>
<td>Platanus occidentalis</td>
<td>American Sycamore</td>
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<tr>
<td></td>
<td>SN</td>
<td>Salix nigra</td>
<td>Willow</td>
<td>1</td>
<td>2-3 GAL</td>
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</table>
Survey driveway to locate curbs to maximize catch area

CL Coreopsis lanceolata
AT Asclepias syriaca
SR Iris versicolor
OC Osmunda cinnamon
EP Epilobium pubescens
OR Osmunda regalis
BA Baptisia australis
AT Asclepias tuberosa
RF Rudbeckia fulgida
HERBACEOUS

TREE

Bk Yellow birch
LS Sweet gum
Po Sugar maple
SH Black willows

ALMA E. PAGEL SCHOOL
RAIN GARDEN IMPLEMENTATION PROJECT
26 BENHAM HILL ROAD, WEST HAVEN CT.
NEW HAVEN COUNTY, CT

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RAIN GARDEN IMPLEMENTATION PROJECT
26 BENHAM HILL ROAD, WEST HAVEN CT.
NEW HAVEN COUNTY, CT

DATE 04/25/19
APPROVED CCO
CHECKED MAL
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CHRISTOPHER C. OBROPTA, Ph.D., P.E.
PROFESSIONAL ENGINEER - NJ LICENSE # 37532

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