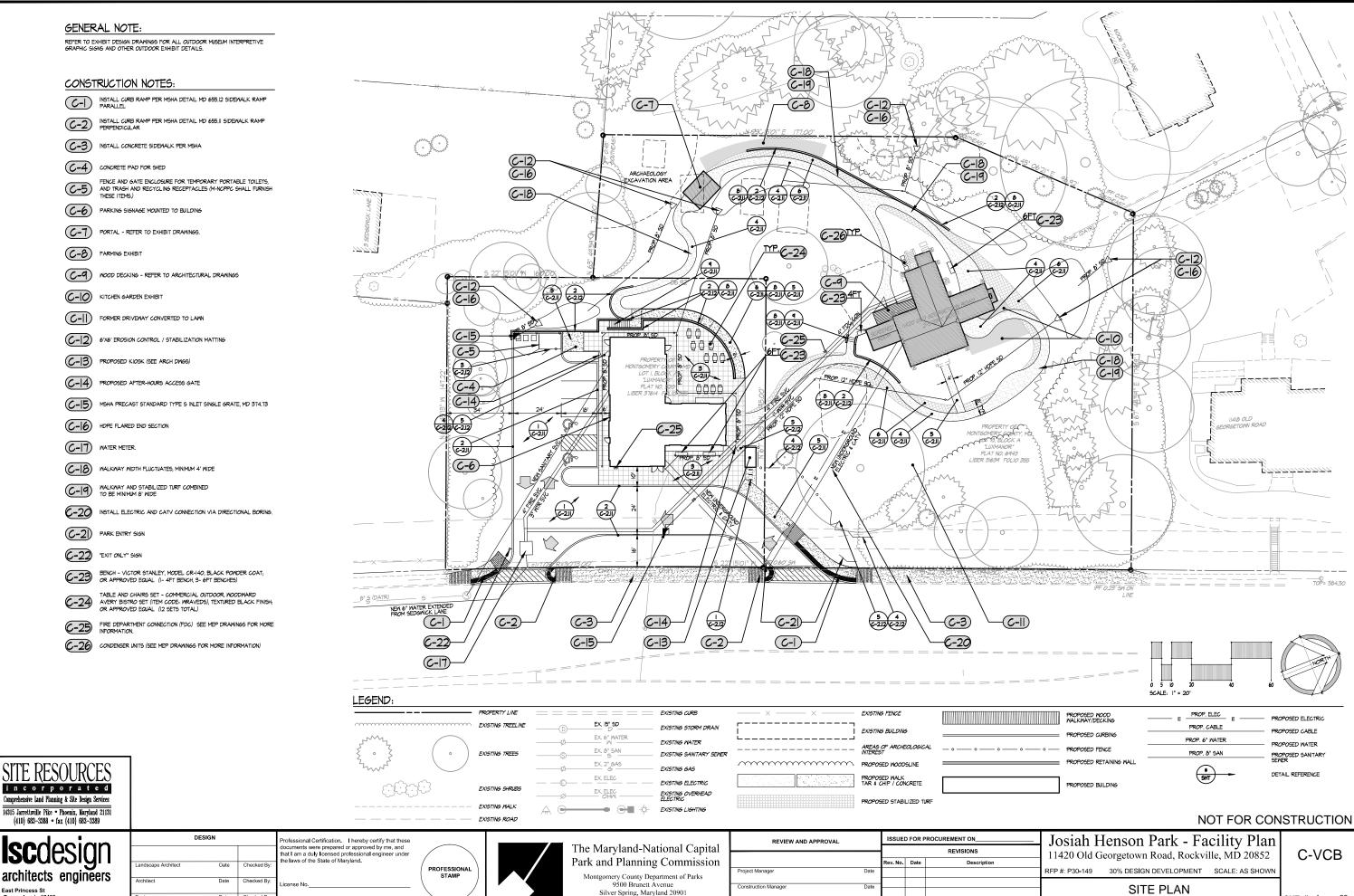


110 East Princess St fork, Pennsylvania 17403 : 717.845.8383



architects engineers

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9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

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SHT. # 1 of 33 MAY 28, 2013



DESIGN Date Date Date

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

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siah Henson Park - Facility Plan 20 Old Georgetown Road, Rockville, MD 20852 P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

PLANTING PLAN

PROPOSED SANITARY SEWER

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SHT. # 2 of 33 MAY 28, 2013

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incorporated Comprehensive Land Planning & Site Design Services

SUGGESTED PLANT PALETTE

COMMON NAME

AMERICAN HOLLY

WHITE FRINGE TREE SMEETBAY MAGNOLIA

SWEET MOCKORANGE

SHORE JUNIPER SHEEP LAUREL

DENSE YEM

ORNAMENTAL/MULTI-STEM TREES

AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE SERVICEBERRY

WILLOW OAK PRINCETON AMERICAN ELM

HICKS YEW EMERALD GREEN ARBORVITAE

CHINA BOY & CHINA GIRL HOLLIES

RED SPRITE DWARF WINTERBERRY HOLLY

RAIN GARDEN MIX (WILDFLOWER & GRASSES)

HUMMINGBIRD SUMMERSWEET

HIDGOTE ST. JOHNSWORT

WILD SWEET WILLIAM

BLACK-EYED SUSAN

NEW ENGLAND ASTER

THREAD-LEAF BLUE STAR

SWAMP MILKWEED
PENNSYLVANIA SEDGE

JOE PYE WEED

MARSH HIBISCUS

GOLDENROD

CARDINAL FLOWER

NEW YORK IRONWEED

HENRY'S GARNET SWEETSPIRE

EMERALD SENTINEL EASTERN RED CEDAR

BOTANICAL NAME

SHADE TREES
LIRIODENDRON TULIPIFERA QUERCUS PHELLOS

TAXUS X MEDIA 'HICKSII'

CERCIS CANADENSIS

CHIONANTHUS VIRGINICUS MAGNOLIA VIRGINIANA PHILADELPHUS CORONARIUS

EVERGREEN SHRUBS
BUXUS SINICA VAR. INSULARIS ILEX X MESERVEAE 'MESOB' & 'MESOG

TAXUS X MEDIA 'DENSIFORMIS

DECIDUOUS SHRUBS
CLETHRA ALNIFOLIA HUMMINGBIRD

ILEX VERTICILLATA 'RED SPRITE

ITEA VIRGINICA HENRY'S GARNET

SYMPHYOTRICHUM NOVAE-ANGLIAE

MYRICA PENSYLVANICA GROUNDCOVERS / PERENNIALS / GRASSES

HYPERICUM X 'HIDGOTE'

BIORETENTION PLANTS ERNST SEEDS ERNMX-180

ASCLEPIAS INCARNATA CAREX PENSYLVANICA

EUPATORIUM PURPUREUM

HIBISCUS MOCHEUTOS

SOLIDAGO RUGOSA

VERNONIA NOVEBORACENSIS

JUNCUS EFFUSUS LOBELIA CARDINALIS

PHLOX DIVARIGATA

RUDBECKIA HIRTA

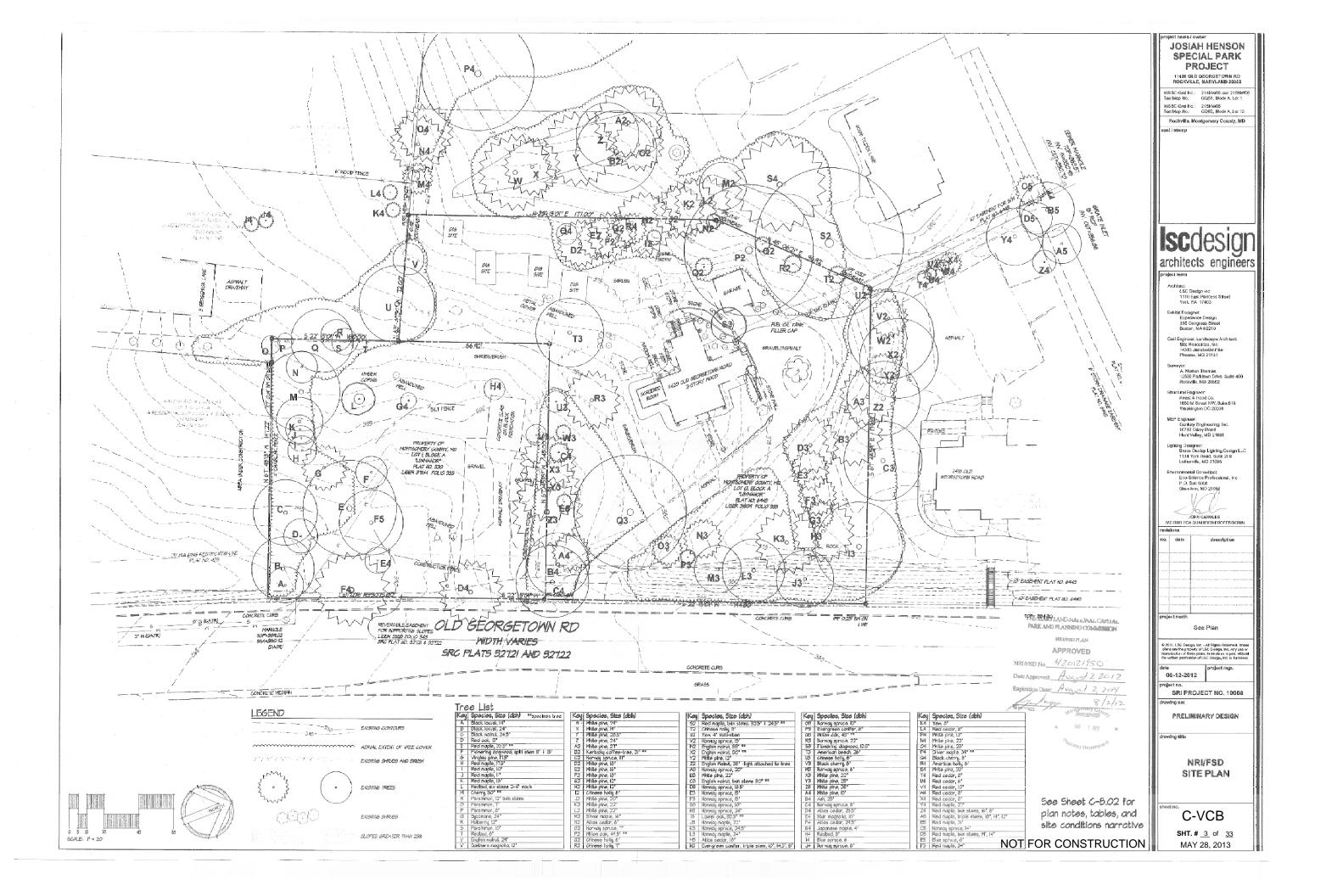
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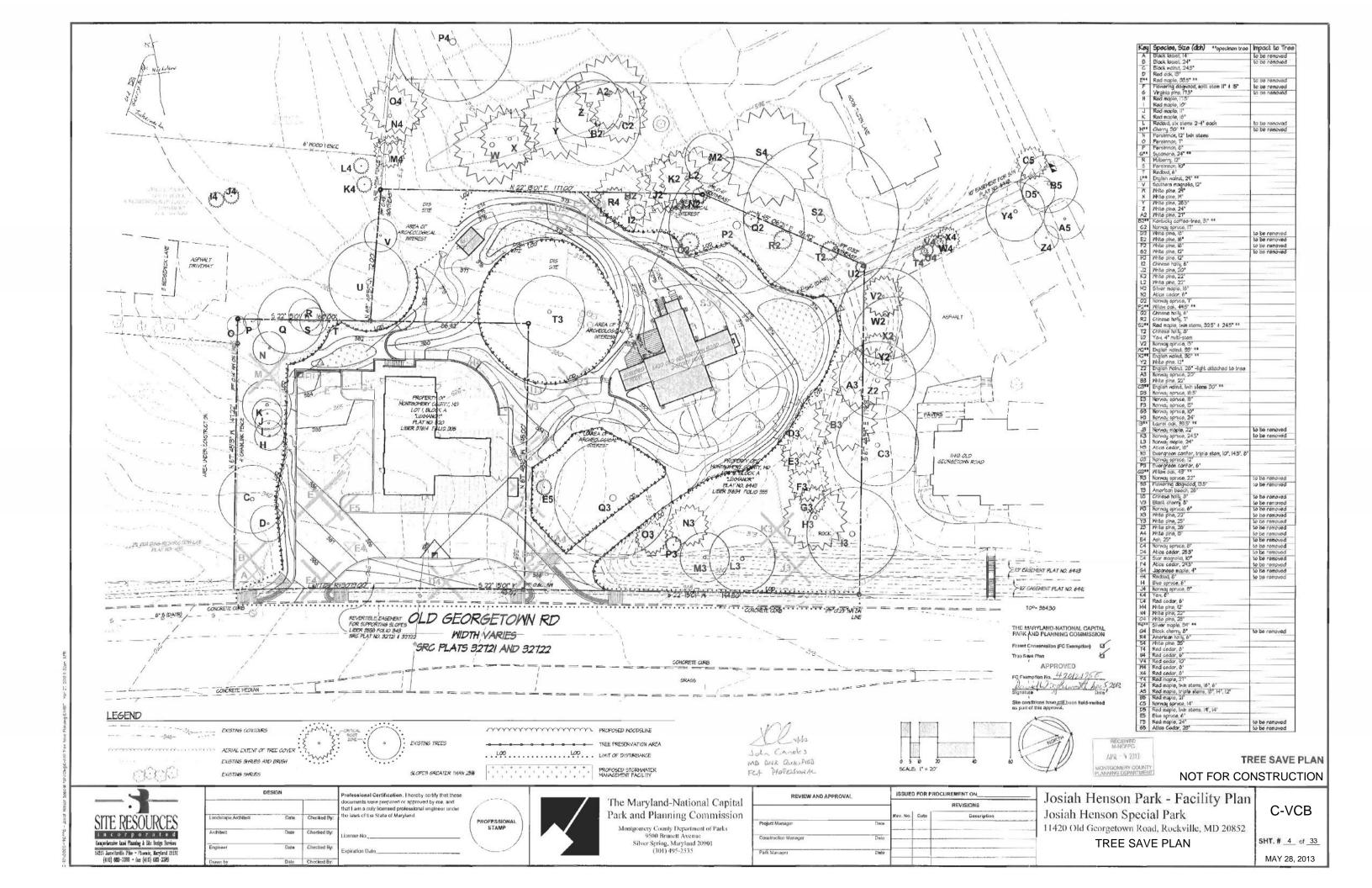
ULMUS AMERICANA 'PRINCETON' EVERGREEN TREES

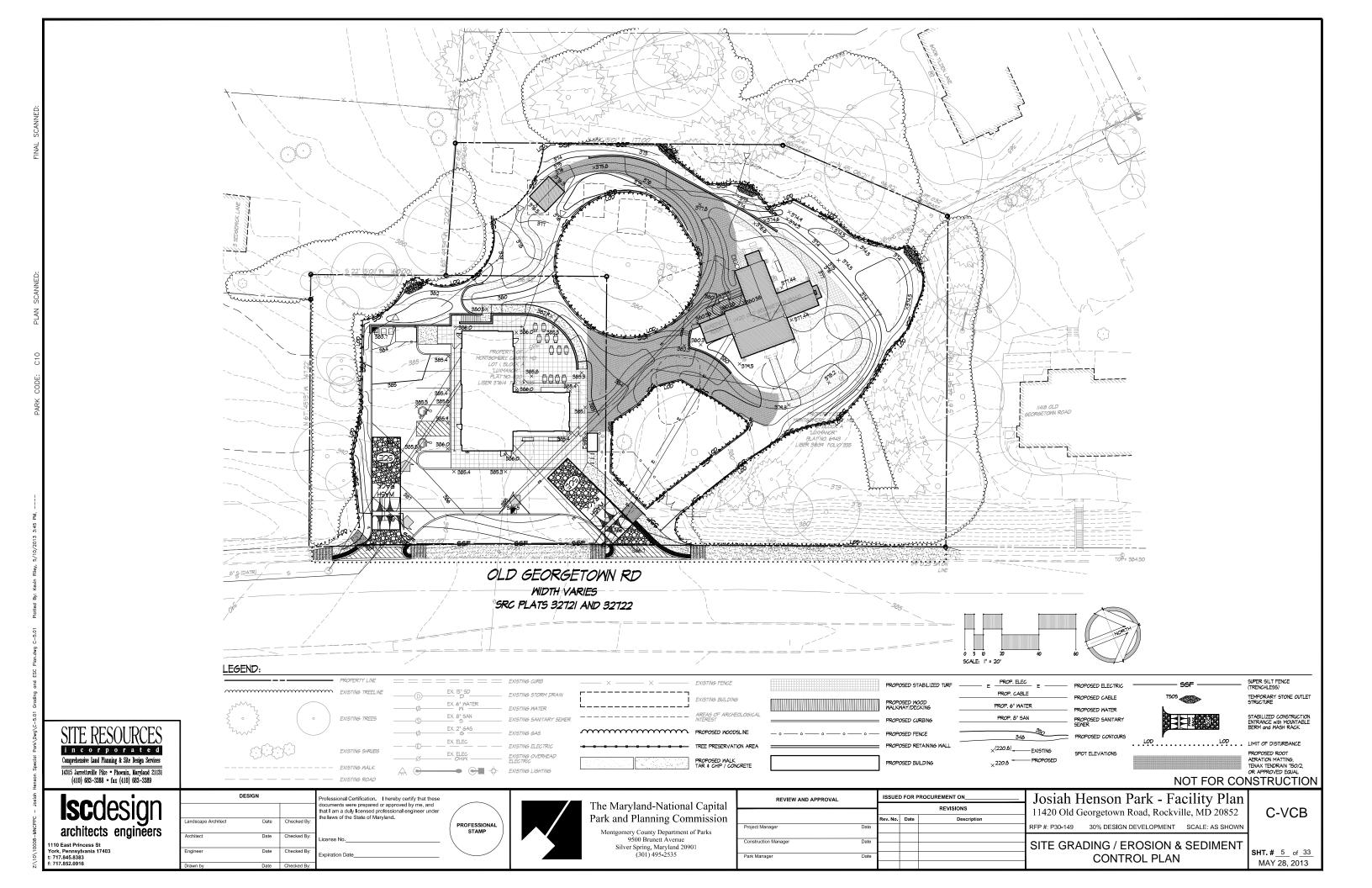
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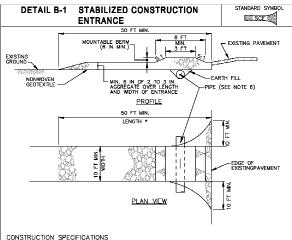
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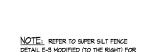




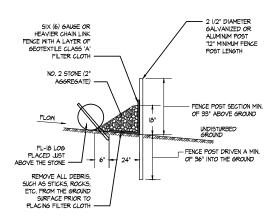


- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT), USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERN WITH S.1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE SPECIFIED ON APPROVED PIAN. WHEN THE SCE IS LOCATED ATA HIGHS POT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT INCICESSARY. A MOUNTABLE BERN IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
- . PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/CR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/CR SWEEPING. WASHING ROADWAY TO REMOVE MID TRACKED ONTO PAZICIENT IS, NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL FROSION AND SEDIMENT CONTROL 2011



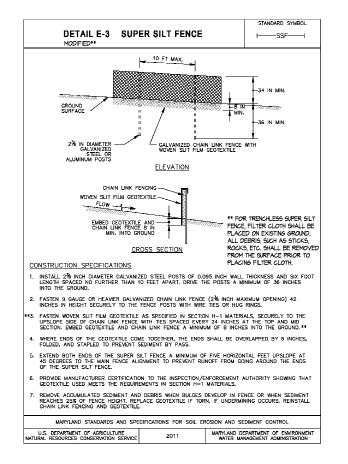
CONSTRUCTION SPECIFICATIONS

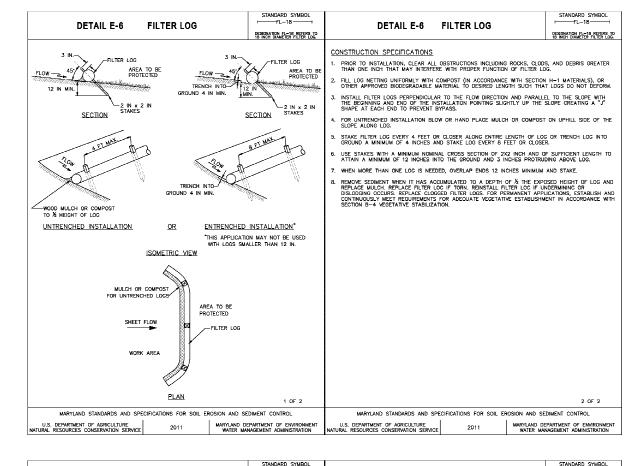


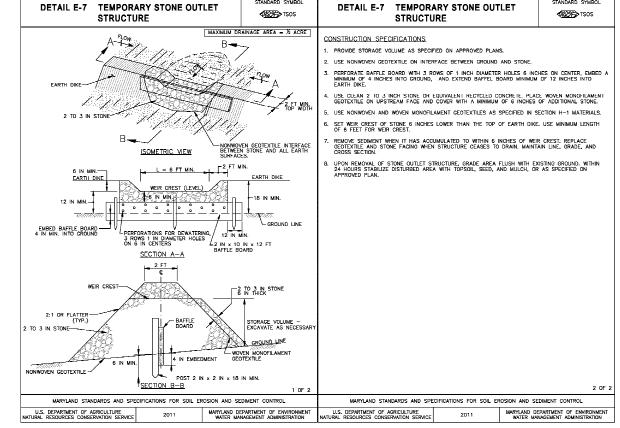
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STANDARD SYMBOL DETAIL B-2 WASH RACK OPTION WR MOUNTABLE BERM 6 FT MIN. WATER SUPPLY-WASH RACK SECTION A-A ISOMETRIC VIEW - WASH RACK IN SCE - MOUNTABLE BERM ISOMETRIC VIEW- WASH RACK ALONG SCE INSTALL PRIOR TO, ALONG SIDE OF, OR AS PART OF THE SCE. 3. DIRECT WASH WATER TO AN APPROVED SEDIMENT TRAPPING DEVICE. KEEP AREA UNDER WASH RACK FREE OF ACCUMULATED SEDIMENT. IF DAMAGED, REPAIR OR REPLACE WASH RACK. MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL FROSION AND SEDIMENT CONTROL

2011







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| Park Manager | Date | | | | |
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siah Henson Park - Facility Plan

20 Old Georgetown Road, Rockville, MD 20852 9: P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

DETAILS

EROSION & SEDIMENT CONTROL

C-VCB

SHT. # 6 of 33 MAY 28, 2013

14315 Jarrettsville Pike • Phoenix, Maryland 21131 (410) 683-3388 • fax (410) 683-3389 110 East Princess St 717.845.8383

B-4 STANDARDS AND SPECIFICATIONS FOR

VEGETATIVE STABILIZATION <u>Definition</u>
Using vegetation as cover to protect exposed soil from erosion.

<u>Purpose</u>
To promote the establishment of vegetation on exposed soil.

Conditions Where Practice Applies

On all disturbed areas not stabilized by other methods. This specification is divided into sections on incremental stabilization; soil preparation, soil amendments and tapsoiling; seeding and mulching; temporary stabilization; and permanent stabilization

Effects on Noter Quality and Quantity
Stabilization practices are used to promote the establishment of vegetation on exposed
soil. When soil is stabilized with vegetation, the soil is less likely to erade and more likely
to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream

Planting vegetation in disturbed areas will have an effect on the water budget, especially an volumes and rates of runoff, infillration, evaporation, transpiration, percolation, and graundwater recharge. Over time, vegetation will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth.

Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by ruroff to receiving naters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone.

Sediment control practices must remain in place during grading, seedbed preparation, seeding, mulching, and vegetative establishment.

<u>Adequate Vegetative Establishment</u> Inspect seeded areas for vegetative establishment and make necessary repairs, replacements, and reseedings within the planting season.

- Adequate vegetative stabilization requires 45 percent groundcover.
 If an area has less than 40 percent groundcover, restabilize following the original recommendations for line, tertilizer, seededed preparation, and seeding.
 If an area has between 40 and 44 percent groundcover, over-seed and fertilize using
- half of the rates originally specified.

 4. Maintenance fertilizer rates for permanent seeding are shown in Table B.6.

B-4-I STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

blishment of vegetative cover on cut and fill slapes

<u>rurpose</u>
To provide timely vegetative cover on cut and fill slopes as nork progresses.
Conditions Where Practice Applies
Any cut or fill slope greater than 15 feet in height. This practice also applies to

Incremental Stabilization - Cut Slopes

- Excavate and stabilize cut slapes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all cut slopes as the work
- progresses.

 Construction sequence example (Refer to Figure B.I):

 a. Construct and stabilize all temporary swales or dikes that will be used to

 convey runoff around the excavation.
- Perform Phase I excavation, prepare seedbed, and stabilize. Perform Phase 2 excavation, prepare seedbed, and stabilize. Overseed
- Phose I areas as necessary.

 d. Perform final phase excavation, prepare seedbed, and stabilize. Overseed previously seeded areas as necessary.

Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of tapsoll (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

- Incremental Stabilization Fill Slopes
 Construct and stabilize fill slopes in increments not to exceed 15 feet in height Prepare seedbed and apply seed and mulch an all slopes as the work
 - progresses. Stabilize slapes immediately when the vertical height of a lift reaches 15 feet,
- or when the grading operation ceases as prescribed in the plans.

 At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-er
- orrer construction sequence example (Refer to Figure B.2):

 1. Construct and stabilize all temporary skales or dikes that will be used to divert runoff around the fill. Construct slit fence on low side of fill unless other methods shown on the plans address this area.
- other methods should be in the fall sources this area.

 At the end of each day, install temporary inder conveyince practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.

 Flace Phase I fill, prepare seedbed, and stabilitize.

 Flace Phase 2 fill, prepare seedbed, and stabilitize.

 Flace Phase 2 fill, prepare seedbed, and stabilitize.

 Overseed previously seeded and stabilitize overseed previously seeded overse as precision.

Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS

<u>Definition</u> The process of preparing the soils to sustain adequate vegetative stabilization

<u>Purpose</u>
To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies Where vegetative stabilization is to be established

<u>Criteria</u> A. Soil Preparation

- |Preparation | Temporary Stabilization | Temporary Stabilization | Seedaded preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrons or chisel plans or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contrar of the silvent.
- coronium. Includes a second the slope.

 Apply fertilizer and line as prescribed on the plans.

 Incorporate line and fertilizer into the top 3 to 5 inches of soil by disking or
- rmanent stabilization

 A soil test is required for any earth disturbance of 5 acres or more. The
 minimum soil conditions required for permanent vegetative establishment are:

 1. Soil pH between 6.0 and 7.0.
- Soluble salts less than 500 parts per million (ppm)
- Soil contains less than 40 percent clay but enough the grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: If lovegrass full be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.
- iv. Soil contains 1.5 percent minimum organic matter by weight.
 v. Soil contains sufficient pore space to permit adequate root penetration.
 Application of amendments or topsoil is required if on-site soils do not meet
- Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5
- Apply soil amendments as specified on the approved plan or as indicated by
- Apply soil amendments as specified on the approved plan or as indicated by the results of a soil lest. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a leavy drain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top I to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary an early disturbed agree.

B. Topsolling
I. Topsoil is placed over prepared subsoil prior to establishment of permanent

- Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or wacceptable soil gradation.

 Topsoil solvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Tupically, the depth of topsoil to be salvaged for a given soil tape can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS.

 Topsoiling is limited to areas having 2:1 or flatter slopes where:

 a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative arouth.
- The texture or use superson and upon the vegetative growth, and the superson and upon the vegetative growth, and the soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients. The original soil to be vegetated contains material toxic to plant growth. The soil is so acidic that treatment with limestone is not feasible.
- d. The soil is so actial that treatment with limestone is not feasible. Areas having slopes steeper than 2.i require special consideration and design. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria: a. Topsoil must be a loam, sondy loam, clay loam, still loam, sondy clay loam, or loamy send. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must be be a mixture of controsting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1% inches in diameter.
 b. Topsoil must be tree of noxious plants or plant parts such as Bermuda gross, auck areas. Infrascon poison by thistile, or others are specified.
- quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.
 Topsoil substitutes or amendments, as recommended by a qualified agronomist
- or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
- Topsoil Application

 a. Erosion and sediment control practices must be maintained when applying
- topsoil.

 b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 linches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other apperations must be corrected in order to prevent the formation of depressions or water pockets.
- or nater pockets.

 Topoil must not be placed if the topsoil or subsoil is in a frazen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

C. Soil Amendments (Fertilizer and Lime Specifications)

- iil Amendments (Fertillizer and Lime Specifications)
 Soil tests must be performed to determine the exact ratios and application rates
 for both lime and fertillizer on sites having distincted areas of 5 acres or more. Soil
 analysis may be performed by a recognized private or commercial laboratory. Soil
 samples taken for engineering purposes may also be used for chemical analyses.
 Fertillizers must be uniform in composition, free flowing and suitable for accurate
 application by appropriate equipment. Manure may be substituted for Fertillizer with
 prior approval from the appropriate approval authority. Fertillizers must all be
 delivered to the site fully labeled according to the applicable laws and must bear
 the name, trade name or trademark and warrantly of the producer.
 Lime materials must be ground limestone (hydroted or burnt lime may be substituted
 except when hydroseading) which contains at least 50 percent total oxides (calcium
 coxide pilus mangeselm oxide). Limestone must be ground to such theness that at least
- oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a ± 100 mesh sieve and 48 to 100 percent will pass
- 4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.
 5. Where the suisabil is either highly acid or composed of heavy clays, spread ground limestone at the rote of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet). prior to the placement of topsoil,

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

<u>Definition</u>
The application of seed and mulch to establish vegetative cover.

<u>Purpose</u> To protect disturbed soils from erosion during and at the end of construction

<u>Conditions Where Practice Applies</u>

To the surface of all perimeter controls, slopes, and any disturbed area not under active

- Specifications

 a. All seed must meet the requirements of the Manyland State Seed Lan. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Toble B4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate.

 b. Much alone may be applied between the fall and spring seeding dates only if the ground is frazen. The appropriate seeding mixture must be applied when the analysis.
- ground thans.

 Incoulants: The Incoulant for treating legime seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Incoulants must not be used later than the date indicated an the container. Add fresh incoulants as directed on the package, like four times the recommended to the container. rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can eaken bacteria and make the inoculant less effective
- Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for meed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.
- a. Dru Seeding: This includes use of conventional drop or broadcast spreaders Incorporate seed into the subsoil at the rates prescribed on Temporar Seeding Table B.I., Permanent Seeding Table B.3, or site-specific seeding summaries.
- summories.

 II. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil control.

 Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed
- Touri. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after
- planting. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
 Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and
- ill fertilitizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, IOO pounds per acre total of solluble nitrogen; P2O5 (phosphorous), 2OO pounds per acre; K2O (potassium), 200 pounds per acre.
- Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied hydroseeding at any one time. Do not use burnt or hydrated lime when
- oseeding. seed and fertilizer on site and seed immediately and without interruption. When hydroseeding do not incorporate seed into the so

Mulch Materials (in order of preference)

- in inducerium in order on preference). Strom consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Strom is to be free of noxious weed seeds as specified in the Manyland Seed Low and not mestly moldy, acked, decayed, or excessively dusty. Note: Use only sterile strom mulch in areas where one species of grass is
- Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into a uniform fibrous phusical sta
- MCFM is to be dijed green or contain a green dije in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.

 MCFM, including dije, must contain no germination or growth inhibiting factors. MCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to
- under agitation and will belief a little seed, retrillizer and other adaitives to form a homogeneous surry. The mulch material must form a bid bidter-like ground cover, on application, having moisture obscription and percolation properties and must cover and hold grass seed in contact with the soil without hibling the growth of the grass seedings. WCFM material must not contain elements or compounds at concentration laught that will be probe a large.
- No. 1 modes an include the phyto-toxic. IXCFM must conform to the following physical requirements: Fiber length of approximately (I millimeters, diameter approximately | millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity

- aplication
 Apply mulch to all seeded areas immediately after seeding.
 When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre.
 Whood cellulose fiber used as mulch must be applied at a net dry weight of 1500 pounds per acre. Mix the mood cellulose fiber with noter to attain a mixture with a maximum of 50 pounds of mood cellulose fiber per 100 gallons of mater.
- noring Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by
 - preference), depending upon the size of the area and erosion hazard:

 i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is mosi
 - Anisotration guests as access a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate softly if used on sloping land, this practice should follow the contour. Mood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of T50 pounds per acre. Mit the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water. Synthetic binders such as Acrylic DILR (Agro-Tack), DCA-T0, Petroset, Terra Tax III, Terra Tack AR or other approved equid may be used. Follow application rates as specified by the manufacturer. Application of lightly binders needs to be heavier at the edges where mind catches much, such as in valleys and on crests of bonts. Use of application binders is strictly prohibited.
 Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000 feet long.

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

<u>Definition</u> To stabilize disturbed soils with vegetation for up to 6 months.

<u>Purpose</u> To use fast growing vegetation that provides cover on disturbed soils

<u>Conditions Where Practice Applies</u>
Exposed solls where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

Select one or more of the species or seed mixtures listed in Table B.I for the appropriate Plant

Select. One or more or the species or seed mixture inside in lose but not be oppropriate. Find Hardhess Zone (from Figure B3), and enter them in the Temporary Seeding Summary below alone with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B1 plus fertilities and lime rates must be put on the plan.

For silbes having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding. When stabilization is required acticle of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.A.l.b and maintain until the next seeding season.

TEMPORARY SEEDING SUMMARY

| Species | Application Rate (lbs./ac.) | Seeding Dates | Seeding Depth | Fertilizer Rate (10-20-20) | Lime Rate |
|--------------------|--------------------------------|---------------------------|------------------|----------------------------------|-------------------|
| Annual Ryegrass | 40 lbs./ac. | 3/15 - 5/31 8/1 - 4/30 | 1/2" | 436 lb/ac. | 2 tons/ac. |
| Foxtall Millet | 30 los/ac. | 6/1 - 7/31 | 烃* | | (90 lb./1000 s.f. |

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

To stabilized disturbed soils with permanent vegetation

To use long-lived perennial grasses and legumes to establish permanent ground cover on

<u>Conditions Where Practice Applies</u> Exposed soils where ground cover is needed for 6 months or more.

<u>Criteria</u> A. Seed Mixtures

- General Use
- Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be
- Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 Critical
- Area Planting. For sites having disturbed area over 5 acres, use and show the rates
- recommended by the soil testing agency. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 %pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.
- 2. Turfarass Mixtures
- Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the
- Kentucku Bluearass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegras: cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
- contrars with each ranging from 10 to 35 percent or the lotted mixture at weight. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas whererapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
 Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes, Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8
- pounds per 1000 savaré feet. One or more cultivars may be blended. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes, Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1½ to 3 pounds per 1000 square feet.

REVIEW AND APPROVAL

Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, Turfgrass Cultivar Recommendations for

Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line

- Ideal Times of Seeding for Turf Grass Mixtures Western MD: March 15 to June 1, August I to October I (Hardiness Zones: 5b 6a) Central MD: March I to May 15 August 15 to October 15 (Hardiness Zone: 6b) Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b)
 Till areas to receive seed by disking or other approved methods to a depth of 2
- to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1 1/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.
- such condition that there making or glasses will pose to attricting. If soil molister is deficient, supply new seedings with adequate water for plant growth (1/2 to I inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in donormally dry or hot seasons, or on adverse sites.

PERMANENT SEEDING SUMMARY

| | HARDI | NESS ZONE | <u>6b</u> | - (10-20-20) | | | | | |
|-------|---------------------|-----------------------------|----------------------------|-------------------|----------|-------------------------------|--------------------------------|---------------------------------|--|
| No. | Species | Application Rate (lo/ac) | Seeding Dates | Seeding Depths | N | P ₂ O ₆ | Ka0 | Lime Rate | |
| | Tall Fescue* | 285 lb/ac** | 3/I - 5/I5 8/I5 - IO/I5 | I/4" - I/2" | 45 lb/ac | (1.0 lb/ (2 lb/ | 40 lb/ac (2 lb/ 1000 st) | 2 tons/ac (90lb/ 1000 st) | |
| Kentu | Kentucky Bluegrass* | 15 lb/ac | 3/I - 5/I5 8/I5 - IO/I5 | 1/4" - 1/2" | (ID ID) | | | | |

- B. Sod: To provide quick cover on disturbed areas (2:1 grade or flatter) General Specifications

scientist prior to its installation.

- a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector. Sod must be machine cut at a uniform soil thickness of % inch, plus or minus % inch,
- at the time of cutting. Measurement for thickness must exclude top growth and thatch. Broken pads and torn or uneven ends will not be acceptable. Standard size sections of sod must be strong enough to support their own weight
- and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section. d Sad must not be harvested or transplanted when moisture content (excessively dry
- or wet) may adversely affect its survival. e Sad must be harvested delivered and installed within a period of 36 hours Sad not transplanted within this period must be approved by an agronomist or soil
- Diring periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod.
 Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air
- Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the
- underlying soil surface. Water the sod immediately following rolling and tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping and irrigating for any piece of sod within eight hours.
- a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day to prevent willing. After the first week, sod watering is required as necessary to maintain adequate
- c. Do not mow until the sod is firmly rooted. No more than 1/3 of the grass leaf must be removed by the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless otherwise specified.

NOT FOR CONSTRUCTION

Josiah Henson Park - Facility Plan

RFP #: P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

SHT.# 7 of 33

C-VCB

architects engineers

DESIGN Date Date

fessional Certification. I hereby certify that these ocuments were prepared or approved by me, and nat I am a duly licensed professional engineer under ne laws of the State of Maryland.





The Maryland-National Capital Park and Planning Commission Montgomery County Department of Parks

9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

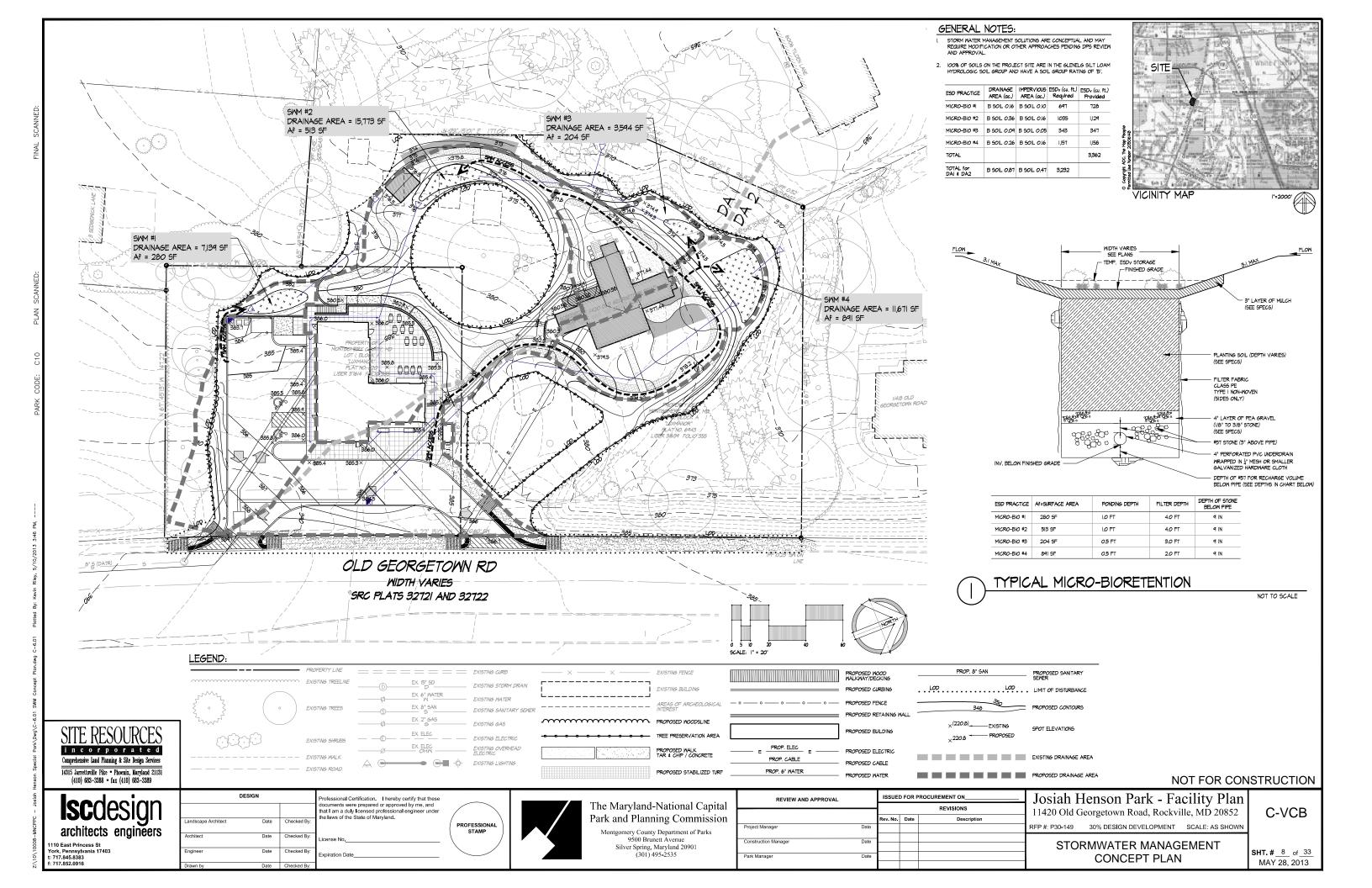
REVISIONS No Date Construction Manage

11420 Old Georgetown Road, Rockville, MD 20852

SSUED FOR PROCUREMENT ON

EROSION & SEDIMENT CONTROL NOTES

MAY 28, 2013





Tree Table 24" and Greater

| Kay | Species, Size (dbh) | Condition |
|-----|---------------------------------------|------------------------|
| В | Black locust, 24" | good |
| C | Black walnut, 245" | good |
| E | Red mople, 33.5" ** | good |
| М | Cherry, 30" ** | good |
| a | Sucamore, 24" | good |
| U | English walnut, 29" | good |
| И | White pns. 24" | good |
| Υ | White pine 285" | good |
| Z | Write pine, 24 | good |
| A2 | White pine, 27" | good |
| B2 | Kentucky coffee-tree, SI* ** | good |
| P2 | Hillon oak, 495" ** | good |
| 52 | Red mople, twin stems, 32.5" \$ 24.5" | good |
| W2 | English walnut, 38" ** | good |
| Х2 | English walnut, 30" ** | good |
| 22 | Erglish Halrut, 28" | fight attached to tree |
| 65 | English walnut, twh stems 30" ** | good |
| 13 | Laurel oak, 38.5* ** | good |
| a9 | Hillon oak, 43' ** | good |
| нэ | Norway spruce, 24" | good |
| 13 | Lourel ook, 98.5" | good |
| K5 | Norway sonice, 24.5" | good |
| L3 | Norway maple, 24" | good |
| äЭ | Willow oak, 43' | good |
| 79 | American beech, 26" | good |
| YS. | White pins, 25" | good |
| Z3 | White pine 26' | good |
| 64 | Ash, 25° | good |
| D4 | Atlas cedar, 25.5° | good |
| F4 | Atlas codar, 295° | good |
| P4 | Sliver maple, 34° 44 | good |
| 54 | White pine 33" | good |
| Y4 | Red maple, 21" | good |
| F5 | Red maple, 24" | good |

Natural Resources Data Table

| Resource | Onsite Extent |
|------------------------|---------------|
| Forest | 0.00 |
| Metlands | 0.00 |
| Forested Metlands | 0.00 |
| IOO Yr. Floodolain | 0.00 |
| Forested Floodplain | 0.00 |
| Stream Buffer | 0.00 |
| Forested Stream Buffer | 0.00 |

| Soil Type | Prime Agricultural Soil | Highly Erodible | Hydric | Serpentine |
|--|-------------------------------|--------------------|--------|------------|
| Glenely silt loam, 3 to 8 percent slopes (28) | × | NA Kf=0.2B | NA | NA |

FREMARYLAND-NALIONAL CAPITAL PARK AND PLANNING COMMISSION

APPROVED

17 No. 420121950

Special Note Historic Site Tree Protection

In performing the Forest Stand Delinection/Natural Resource Inventory all trees with a diameter at breast height of 6" or greater have been identified. However, because the 11410 Old Georgetown Road parcel is a historic site, identification of all trees with a DNH of 1" or greater is required. A variance request to remove any tree greater than 1° dbh will be required (per Section 22A-12. (b) (3)(B). Due to this requirement an additional survey of 1-6" dobt trees will be provided on the Forest Conservation Plan if the Limits of Disturbance impacts any trees or critical root zones.

Plan Notes

 a. Owner/Applicants
 M-NCPPC 9500 Brunatt Ava. Silver Spring MD 20901

b. MSGC Grid No. and Tax Map No.: 11410 Old Seorgetann Rd. parcell WSSC 6rid No.: 21414706 and 21514706 Tax Map No.: 6051, Black A, Lat 1

11420 Old Georgetown Rai parcei WSSC Grid No., 215NNOG Tax Map No. 6962, Block A, Let 13

- c. Total Tract Area : 1.5 acres
- d. Currient Zoningi R200
- e. Watershed: Cabin John Creek
- f. Use Class of watershed: Use I no strisam/netland ansits
- g. Special Protection Area: None
- h. Floodplain Source: No floodplain FEMA Map number 2403100361D
- i. Metland Source: No metlands, field review by Eco-Science Professionals, Inc.
- j. Raro, Throatened Endangered Species: None observed, none reported by DNR
- k. Historic Sitas: The parcel of 11420 Old Georgetown Road is listed on the Mongonery County Master Plan for Historic Preservation as the Riley/Balton House, MILP #30/006. The sita includes archeological resources.
- l. Method of measuring trees: dbh tape
- m. State/County Champion Trees: none present, no trees 15% of State Champion
- n. Date of field work, June 2011, John Canalas

NRI/FSD Notes

- Fleid review of the property has determined that no wellands or streams are
 present on an within ICO feet of the subject property. The site is within the Colon
 John Creek watershed. This watershed is a Use 1 watershed capable of supporting
 water contact represiden.
- FEMA Map number 2406160361D confirms that no 1100 year Moodplain exists on or adjacent to the site.
- 3. No RTE species or appropriate habitat were noted on or adjacent to the subject
- 4. No forest resources are present on the subject property
- 5. All soils on the site are mapped as Glenelg silt loam, 5 to 6 percent slapes (2B).
- 6. There are no known conservation easements on the subject property or on contiguous properties.
- All trees 6" and greater disneter at breast helpful have been identified and field located. There are several spectrem trees on the property these trees are noted 4" in the Tree List and Tree Tield provided hence.

Existing Conditions Narrative

The subject property is a Marizganery County park in Rockvillis. M2. It is comprised of tinn parvalles a historic parcel of III 1820 Old Georgia John Road and a non-historic parcel of III 180 Old Georgia Low Road. The property is histoles approximately 15 acres and to identified as Late 1 and 18 of Black A on Hartagenery County tax may access and but due in the victing of the offs to Expressived by Taylor Georgia para-land use in the victing of the offs to Expressived by Taylor Georgia properties.

The site is located within the Pledmont physiographic province of Maryland. In Montgares Courty, this province is bypitled by rolling hills drained by numerous small streams in fairly narrow valleys.

The Neb Soil Survey for Mortigatiery County shows that all of the soils on the ethe ore classified as Glensig sitt loam 3-8 percent slope. These soils have no limitations for standard construction practices.

The III420 Old Georgetown parcel includes a single family home with associated gardens and lawn. The home and associated amentiles have been identified as a historic resource in the Mintagening County Matter Plant for IIII61and Proservation. An associated garage has been determined to be non-historic. The IIII10 Old Georgetom parcel had a home that was named a portion of the driveway and a concrete garage/withullding levindation ramath.

The property varies from open laws area to treed laws areas. The indeed laws areas include a nitrial nation and anamental species with a variety of shribs and instructional species present within inclinated laws and instructional anamental species present within inclinated laws and instructional and sourced variety common shribs noted on the etc.

English I.a., Frachpandra, and Virginia creeper are common throughout the gardene. Polion by Is also common throughout the site. Pokeneed, garlic mestand, tree-of-Heaven, and grape-line are also common hivastine spaces found throughout the gardene. Red bud seedlings are also common throughout.

No areas on or immediately adjacent to the property rould be considered forest.

No weblands or streams are present within 100 feet of the property. No 100 year Floodplain is present on the property.

NOT FOR CONSTRUCTION

JOSIAH HENSON SPECIAL PARK PROJECT

WSSC Grid No.: 215NW06 Tax Map No.: GG62, Block A, Lot 13 Rockville, Montgomery County, MD

architects engineers

Arctitlect: LSC Design Inc 1816 East Princess Street York, PA 17403

Exhibit Designer: Experience Design 356 Congress Street Boston, MA 02210

Civil Engineer, Landscape Architect: Site Resources, Inc. 14315 Jarrotsville Fike Pheonic, MD 21131

12530 Parklewn Drive, Suite 400 Rockville, MD 20852

itural Engineer: Keast & Hood Co. 1850 M Street NW, Suite 610 Washington DC 20036

MEP Engineer: Century Engineering, Inc. 18710 Girroy Road Hunt Valley, MD 21031

ng Designer: Bruce Dunlop Lighting Design LLC 1134 York Road, Suite 200 Lutherville, MD 21093

P.O. Box 5006 Glon Army MD421057

JOHN CANOLES ID DNR FCA QUALIFIED PROFESSIONAL

MG 1 2012 *

06-12-2012

SRI PROJECT NO. 10008

rawing title

PRELIMINARY DESIGN

NRI/FSD NOTES

C-VCB

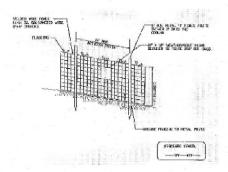
SHT.# 9 of 33 MAY 28, 2013

CONSTRUCTION SIGN DETAIL

NOT TO SCALE

JUN 1995

Tree Protection Fence Detail Not to scale



NOTES

- Practice may be combined with sodiment control
- fereing.
 Location and limits of fending should be coordinated in field with arborist.
 Boundaries of protection area should be staked prior to inglalling protective davice.
 Rook damage stread be exoked.
 December shall not be required.

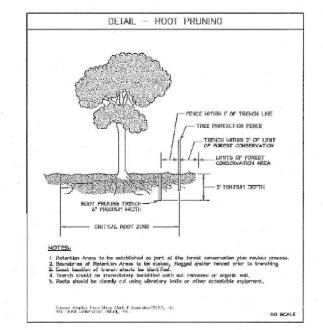
- Protection signage is required.

 Fencing shall be maintained throughout

Montgorrery County Planning Department + 間M-ACFEC

REE PROTECTION FENCE

NOT TO SCALE.



ROOT PRUNING DETAIL

NOT TO SCALE

UNIT OF CONSTRUCTION ACTIVITY TRANSITION SLOPE OF BACHFILL TO EX GRADE UNCOMPACTED CRITICAL ROOT YOME TORY

NOTES:

- 1. Strip vegetation and imit had preparation (2" mex. dapth) to protect existing roots. During construction near existing trees, exercise extreme care to protect racts:
 Use only kerminance construction equipment, 6 PSI or less when operating in the trail construction pree and within the critical root space of the trees.
- Root ceration mat shall be an approved triplanur geomet (ASTM 04439) and geogrid shall be Tensor 3eb-0.td 3X-4100, or approved equal.
- 4. Bein MikCPPC Uran Forester and Forest Conservation Inspector must approve Ties Projection Farice fled ayout
- Eull M-HGP G Global Expectational Function and Function Inspector to inspect and entity installation of above and contact and in GRZ.
- 6. Befer to specification section 721-Tree Preservation for additional information.

ABOVE GRADE TRAIL DETAIL

NOT TO SCALE

SEQUENCE OF EVENTS

Sequence of events to comply with Forest Conservation and/or Tree save Plan

Pre-Construction

- I. An onsite pre-construction meeting is required after the little of disturbance have been stated and tlagged, but before any alwaring or grading teagins. The property event enhalled entitle the Heritagenesi' coulty. Floring Department imposition 5x81 before construction to verify the little of disturbance and discuss tree protection and tree care measures. The Developer's representative, construction super-fabricant, international Social of Arberts/floring Confliction and the care discussed the super-fabricant, international Social of Arberts/floring Confliction and tree care the second that will be less constructive this become mental tree. arborist or Many and licensed tree expert that will implement the tree protection measures. Forest Conservation respector, and Department of Permitting Services (DPS) Sediment Control Inspector should be present at the meeting.
- No clearing or grading shall begin before stress reduction measures have been implemented. Appropriate measures may include, but are not limited to:

- 2a. Root prining 2b. Crown reduction 2c. Platering 2d. Pertilizing 2a. Vartical muching
- 2f. Root Aeration mailing
- 3. A Haryland Licensed Tree Expert or ISA-certified Arbarish mest perform all stress natiotion measures. Documentation of stress natiotion measures must either be observed by the Forcet Conservation Inpecation or sonit to the improport of 25ft Georgia Avenue, Stimer Spring PD 20ftlo. The Forcet Conservation Ingelation will determine the association that to convey the stress reduction measures. during the pre-construction meeting.
- 4. Temporary tree protection devices shall be installed per the Forest ervation Plan and/or Tree Save Plans and prior to ary construction activities. Tree protection devices may include:
- 4a. chain link tence (four teet high) 4b. Super sitt tence with wire strong between support poles frinknum four feet
- hight with high violitility flagging 4c. 14 gauge, 2 Inch by 4 linch welded wire feating supported by T-bor posts, inhimum four feat hight with high violality flagging
- b. Temporary protection devices shall be installed and maintained by the contractor for the cavation of the construction project and must not be altered without price approval from the Proset Commensation Inspector. No equipment, incide, materials, or debris may be stored within the tree protection frame areas. during the entire construction project. No vehicle or equipment access to the ferced area will be permitted. These protection shall not be removed without prior approval from the Forest Conservation Inspector.
- 6. Forest Retention Areas signs shall be installed as required by the Forest Conservation inspector, or as shown on the approved plan.
- 7. Long-term protection devices will be installed per the Forest Conservation PlantTree Serve Plan and attached details. Installation will occur at the appropriate time during the construction project. Refer to the plan drawing for long term protection measures to be installed.

During Construction

I. Periodic inspections by the Ponest Conservation inspectors will occur during the construction project. Corrections and repairs to all tree protection devices, as determined by the Forest Conservation Inspector, must be made within the time frame established by the Inspector.

I. After construction is completed, an inspection shall be requested. Corrective measures may include:

- la. Removal and replacement of dead and dying trees to Pruning of dead or declining limbs
- lo. Soll äeration ld. Fartilization
- le. Motering If. Nound repair
- 2. After inspection and completion of corrective moseures have been undertaken, all temporary protection devices shall be removed from the site. Removal of tree protection devices that also appends for reades and sedence corror terms to coordinated with both the Department of Permitting Services and the Forest. Conservation inspector. Ne additional grading, codding or burial may take place after the tree protection fracing is nanowed.

THE MARYLAND NATIONAL CAPITAL PARK AND PLANNING COM

Forest Conservation (FC Exemption) True Save Plan

APPROVED

She conditions have provided their varified as part of this approval.

in Conoles MD DAR QUALIFIED FCA PROPESSIONAL

EXEMPTION REQUIEST

Forest Conservation Exemption Request

The Josiah Henson Special Park Project Involves the creation of a Historical park on the 15 acre park property. The property amently contains a Netaric home and associated lawns, garders and treed areas. No Porest is present on the site.

The development of the park project will include the construction of a visitors center, parking facilities, traits and interpretive exhibits. It has been determined that no forest clearing will be required for the implementation of the project. For thermore, the project dozen not require the addition or consolication of properties and therefore the project is exempt from the Forest Conservation Flori requirements per Section 2.24-5 (i) of the Forest Conservation Lan. The appropriate section of the code is shown below.

Sec. 22A-5. Exemptions.

The requirements of Article II do not apply to a modification to existing developed

(1) no more than 5000 square feet of forest rull be sleared;

(2) the modification does not affect any forest in a stream terfer or located on property in a special protection area which must submit a water quality plans and (3) the modification does not require approval of a new subdivision plan.

FIELD INSPECTION SCHEDULE

All field inspections must be requested by the applicant. Inspections must be conducted

inspections

All field inspections must be requested by the applicant, inspections must be conducted as follows:

Tree Save and Forest Coreenvation Plans without planting requirements

- l. After the limits of disturbance have been staked out and flagged, but before any
- clearing or gracing begins

 2. After recessory stress rediction measures have been completed and protection measures have been installed, but before any clearing and grading
- begins.

 3. After completion of all construction activities, but before removal of tree. protection fercing, to determine the level of compliance with the provision of Forest Corearvation.

Additional Requirement for plans with planting requirements:

- 4. Before the start of any required referestation and differestation electing
- per our.

 5. At the end of the mantenance period to determine the level of compliance with the provisions of the planting plan, and if appropriate, release of the performance.

FOREST CONSERVATION DATA TABLE

Forest Conservation Data Table Number of Acres

| Truct | 1 | .5 |
|----------------------------------|------------|--------------------|
| Remaining in Agricultural Use | | |
| Road & Utility ROWs ¹ | | |
| Total Existing Forest | | |
| Forest Recention | | |
| Forest Cleared | | |
| Land Use & Thresholds | | |
| Land Use Category | HC8 - K200 | ARA, MOR, IDA, BIO |

Wetlands

Stream Buffers



TREE SAVE NOTES & DETAILS

NOT FOR CONSTRUCTION

Incorporated Compertencine land Planning & Sile Berign Services 11515 Jacobseille Pile * Photois, Norshad 2113 (41¢) 680-3388 = for (41¢) 680-3389

DESIGN Professional Certification, Unereby certify that these ocuments were prepared or approved by ma, and that I am a duly Icensed professional engineer under the laws of the State of Maryland. Chacked Es Checked By Date Checked By





The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

| REVIEW AND APPROVAL | | ISSUED FOR PROCUREMENT ON | | | |
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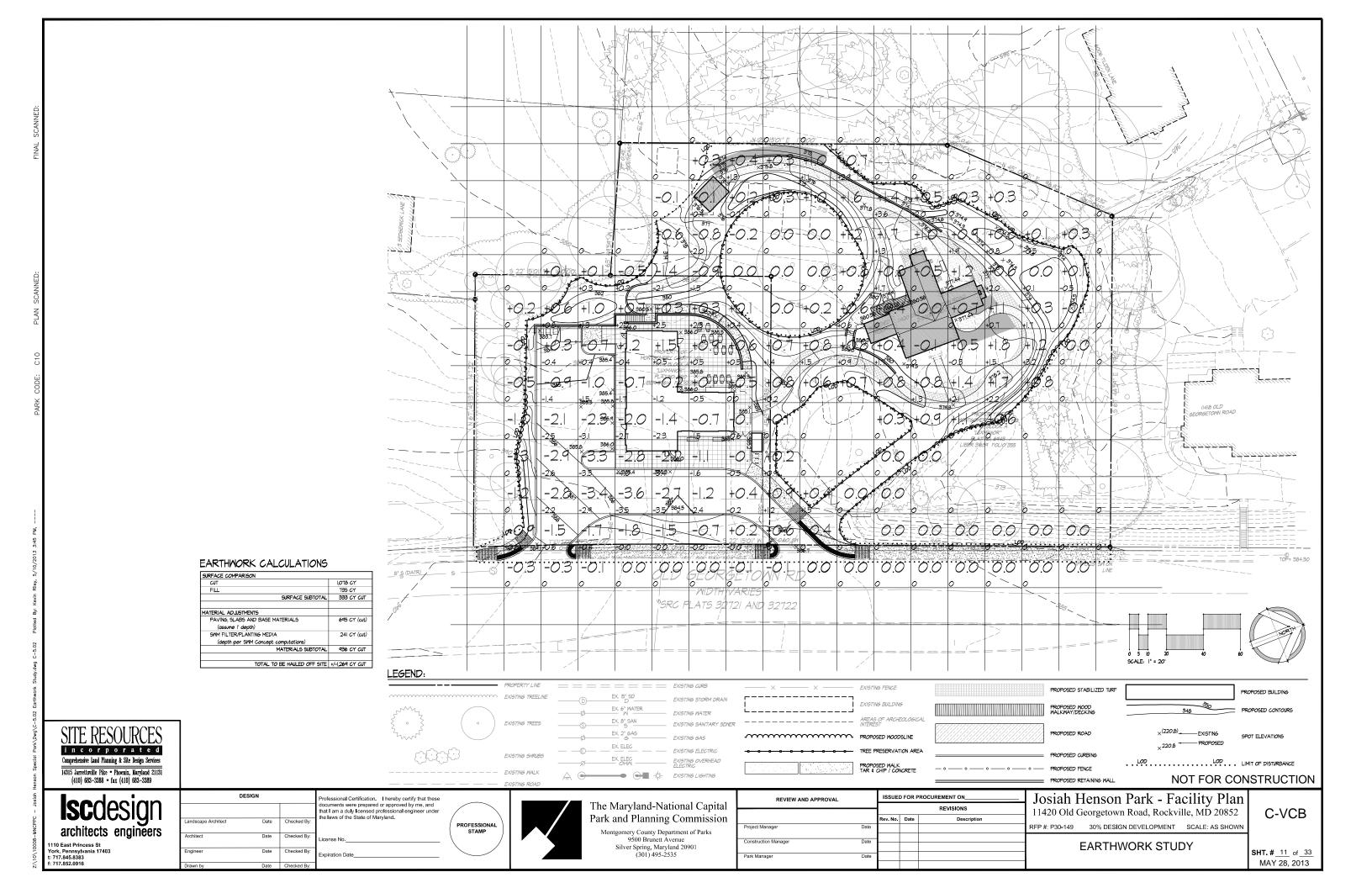
Josiah Henson Park - Facility Plan Josiah Henson Special Park 11420 Old Georgetown Road, Rockville, MD 20852

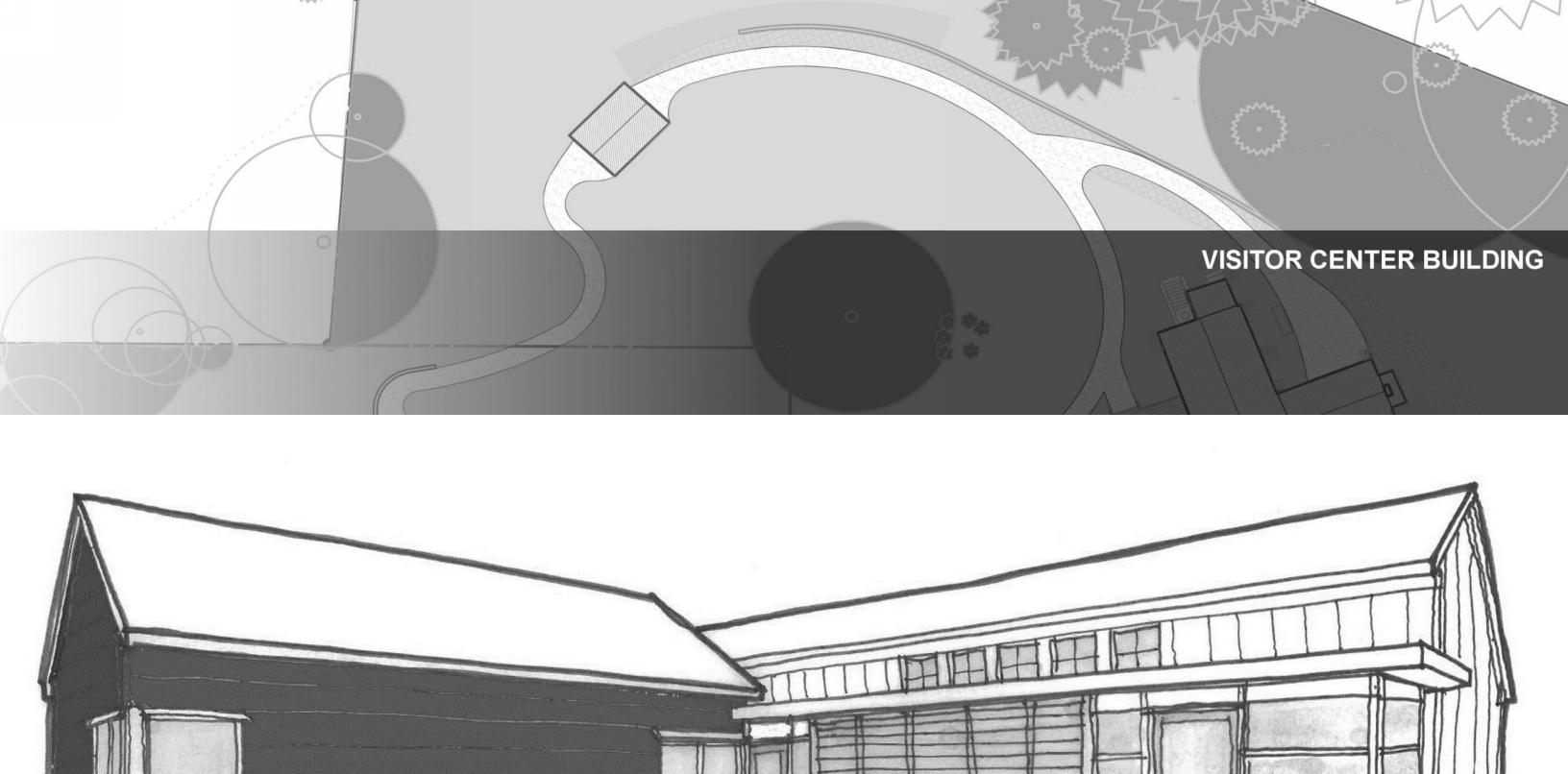
TREE SAVE NOTES

C-VCB

SHT. # 10 of 33

MAY 28, 2013





Iscdesign architects engineers





PROFESSIONAL STAMP



FIRST FLOOR PLAN - VISITOR CENTER

SCALE: 1/8" = 1"-0"

3 168

EXHIBIT STORAGE 136 SF

DATA ELECTRIC

MECHANICAL

BASEMENT PLAN - VISITOR CENTER

SCALE: 1/8" = 1'-0"

3 160

CALL STAIR

MULTIPURPOSE THEATRE

CLOSET CLOSET 1 300 29 SF WOMEN 145 SF

CORRIDOR

LOBBY / RETAIL 532 SF

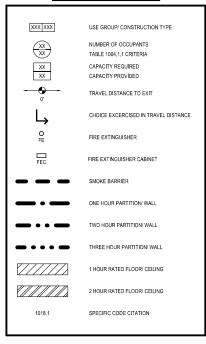
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Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

| REVIEW AND APPROVAL | | | GOODED I GITTI TOOGITE MIETTI GIT | | | | |
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| Project Manager | Date | | | | | | |
| Construction Manager | Date | | | | | | |
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| Park Manager | Date | | | | | | |
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CODE SHEET LEGEND



| | OCCUPANTS | | WC | :/U | LAVAT | ORIES | |
|-------------|-----------|----|----|-----|-------|-------|---------|
| | М | F | М | F | М | F | REMARKS |
| FIRST FLOOR | 50 | 50 | 2 | 2 | 1 | 1 | |
| | | | | | | | |

| 2012 IBC TYPE II-B CONSTRUCTION (SPRINKLERED) | | | | | | | | | |
|---|--------|---------------------|------|-----------|----------------------------|--|--|--|--|
| ITEM OF CONSTRUCTION | RATING | CONSTRUCTION | DOOR | CITATION | REMARKS | | | | |
| | | | | | | | | | |
| PRIMARY STRUCTURAL FRAME | 0 | HORIZONTAL ASSEMBLY | N/A | T601 | | | | | |
| FLOOR CONSTRUCTION | 0 | HORIZONTAL ASSEMBLY | N/A | T601 | | | | | |
| ROOF CONSTRUCTION | 0 | HORIZONTAL ASSEMBLY | N/A | T601 | | | | | |
| EXTERIOR BEARING WALLS | 0 | EXTERIOR WALL | 0 | T601 | | | | | |
| INTERIOR BEARING PARTITIONS | 0 | | 0 | T601 | | | | | |
| FIRE WALLS | | FIRE WALL | | T706.4 | | | | | |
| NON-BEARING EXTERIOR WALLS | | | | T602 | | | | | |
| NON-BEARING INTERIOR PARTITIONS | 0 | == | 0 | T601 | | | | | |
| CORRIDOR PARTITIONS | 0 | FIRE PARTITION | 0 | T1018.1 | | | | | |
| OPEN STAIRS | 0 | | 0 | 1021 | | | | | |
| STAIR TOWERS | 1 | FIRE BARRIER | 60 | 1022.2 | 2 HOURS; 4 STORIES OR MORE | | | | |
| ELEVATOR SHAFTS | 1 | FIRE BARRIER | 60 | 713.4 | 2 HOURS; 4 STORIES OR MORE | | | | |
| SHAFT ENCLOSURES | 1 | FIRE BARRIER | 60 | 713.4 | 2 HOURS; 4 STORIES OR MORE | | | | |
| OCCUPANCY SEPARATIONS | | FIRE BARRIER | | T508 4 | | | | | |
| FIRE AREA SEPARATIONS | | FIRE BARRIER | | T707.3.10 | | | | | |
| INCIDENTAL SEPARATIONS | | | | | | | | | |
| MECHANICAL ROOM | 0 | | 0 | T509 | | | | | |
| LAUNDRY ROOM | 0 | | 0 | T509 | | | | | |
| ELECTRICAL ROOM | 0 | | 0 | | | | | | |
| WASTE / LINEN ROOM | 0 | == | 0 | T509 | | | | | |
| FIRE PUMP ROOM | 1 | FIRE BARRIER | 45 | T509 | | | | | |
| ELEVATOR EQUIPMENT | 1 | FIRE BARRIER | 60 | 3006.4 | | | | | |

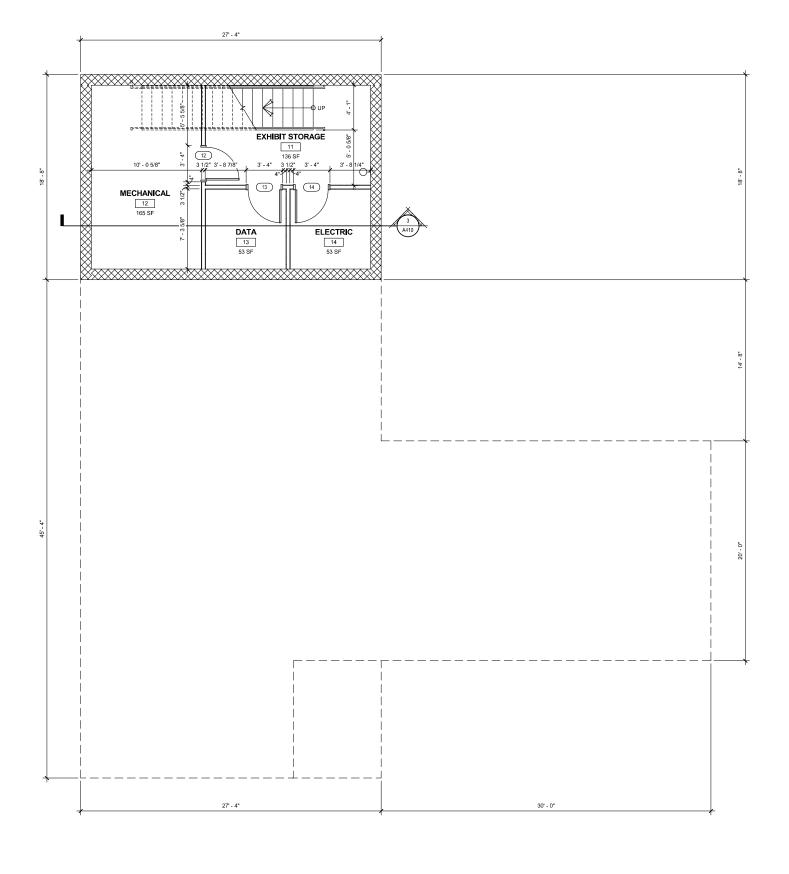
NOT FOR CONSTRUCTION

| REVIEW AND APPROVAL | | UED F | OR PR | OCUREMENT ON | Josiah Henson Park - Facility Plan | | | |
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| | | VISIC | ONS | | 11420 Old Georgetown Road, Rockville, MD 20852 | | | |
| | Rev. | /. No. | Date | Description | ,, | | | |
| iger Da | te | | | | RFP #: P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN | | | |
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CODE CRITERIA - VISITOR CENTER

A-VCB

SHT. # 12 of 33 MAY 28, 2013





Iscdesign architects engineers

| D | ESIGN | |
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| | | |
| Landscape Architect | Date | Checked By: |
| Architect | Date | Checked By: |
| Engineer | Date | Checked By: |
| Drawn by | Date | Checked By: |

Professional Certification I hereby certify that these documents were prepared or approved by me, and that I am a duy licensed professional engineer under the laws of the State of Maryland.





The Maryland-National Capital Park and Planning Commission Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

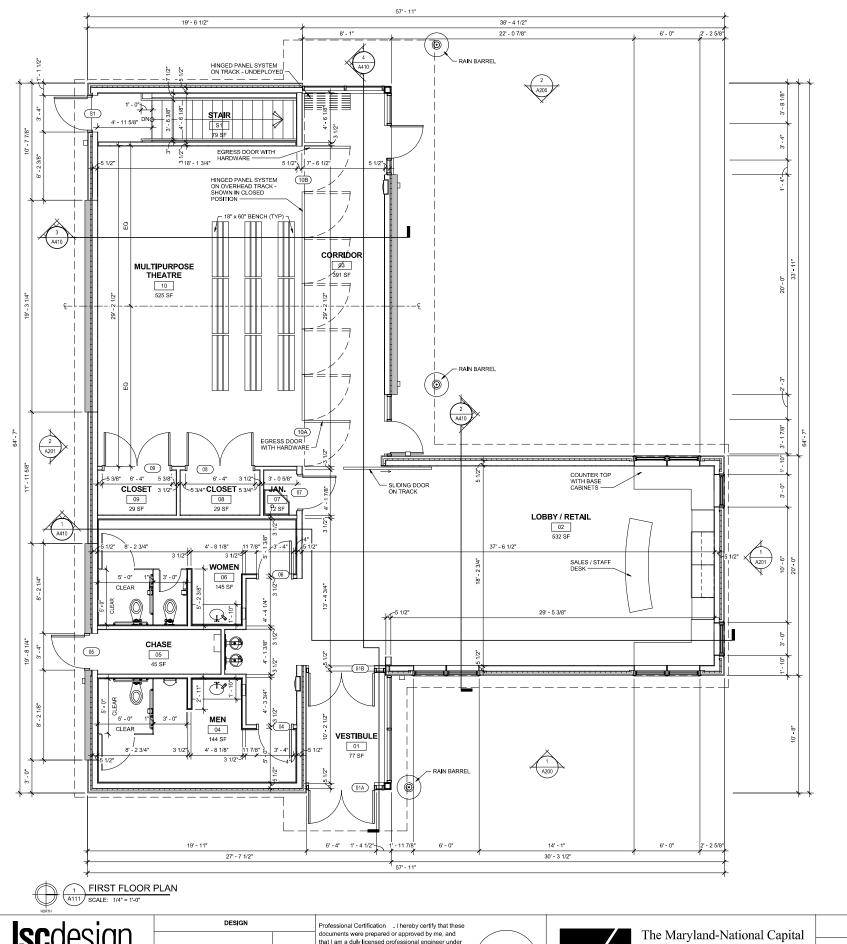
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| | | Rev. No. | Date | Description | 7 | | |
| Project Manager | Date | | | | RFP | | |
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| Josiah H | enson Park - Fa | cility Plan | | | | |
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| 11420 Old Georgetown Road, Rockville, MD 20852 | | | | | | |
| RFP #: P30-149 | 30% DESIGN DEVELOPMENT | SCALE: AS SHOWN | | | | |

BASEMENT PLAN

A-VCB

SHT. # 13 of 33 MAY 28, 2013



| ROOM FINISH SCHEDULE | | | | | | | | |
|----------------------|--------------------------------|----------------|----------|--------------|---------|--|--|--|
| | ROOM | FLOOR | BASE | CEILING | | | | |
| NUMBER | NAME | FINISH | FINISH | FINISH | DEMARKO | | | |
| NUMBER | NAME | MATERIAL | MATERIAL | MATERIAL | REMARKS | | | |
| BASEMENT | | | | | | | | |
| 11 | EXHIBIT STORAGE | SEALED CONC. | _ | _ | | | | |
| 12 | MECHANICAL | SEALED CONC. | _ | - | | | | |
| 13 | DATA | SEALED CONC. | _ | - | | | | |
| 14 | ELECTRIC | SEALED CONC. | _ | _ | | | | |
| FIRST FLOOR | VESTIBULE | | | L WOOD BLANK | | | | |
| 01 | | CPT-1 | VCB | WOOD PLANK | | | | |
| 02 | LOBBY / RETAIL | CPT-2 | VCB | GWB | | | | |
| 03 | CORRIDOR | SLATE | SLATE | WOOD PLANK | | | | |
| 04 | MEN | CERAMIC TILE | TILE | GWB | | | | |
| 05 | CHASE | SEALED CONC. | _ | EXPOSED | | | | |
| 06 | WOMEN | CERAMIC TILE | TILE | GWB | | | | |
| 07 | JAN. | SEALED CONC. | VCB | EXPOSED | | | | |
| | CLOSET | CPT-2 | VCB | EXPOSED | | | | |
| 80 | | | VCB | EXPOSED | | | | |
| 08 | CLOSET | CPT-2 | VCB | LA OOLD | | | | |
| | CLOSET MULTIPURPOSE THEATRE | CPT-2 CPT-2 | VCB | ACT | | | | |

Iscdesign architects engineers

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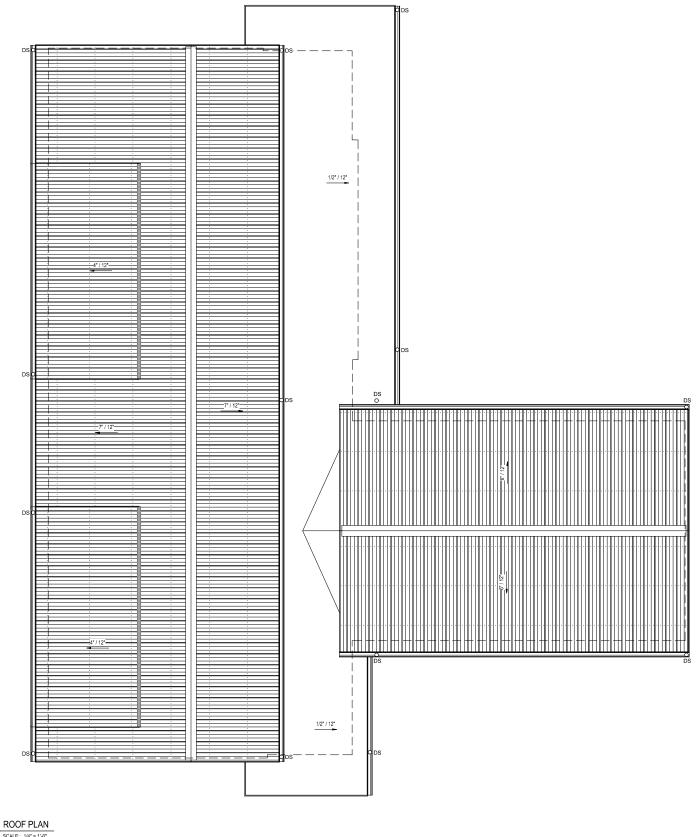
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| | Project Manager | Date | | | | RFP #: P3 | | |
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| | Park Manager | Date | | | | | | |
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Josiah Henson Park - Facility Plan 11420 Old Georgetown Road, Rockville, MD 20852 RFP #: P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

FIRST FLOOR PLAN

A-VCB

SHT.# 14 of 33 MAY 28, 2013





Iscdesign architects engineers

| | DESIGN | |
|---------------------|--------|-------------|
| | | |
| Landscape Architect | Date | Checked By: |
| Architect | Date | Checked By: |
| Engineer | Date | Checked By: |
| Drawn by | Date | Checked By: |

Professional Certification . I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.





The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

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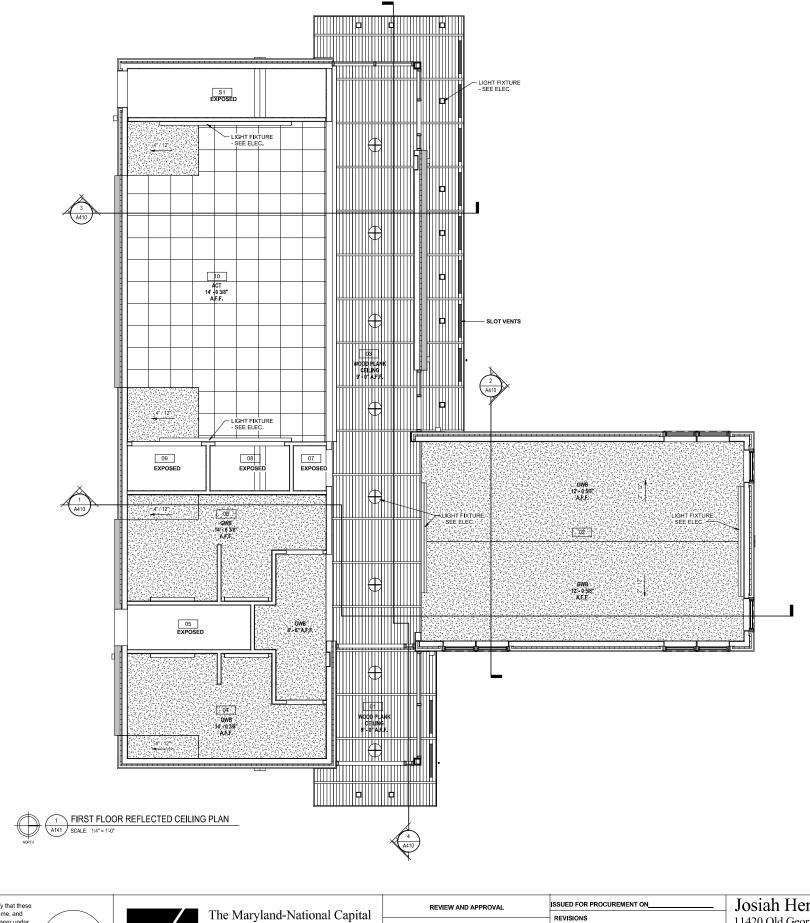
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| 420 Old Georgetown Road, Rockville | , MD | 20852 |

49 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

ROOF PLAN

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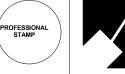
SHT. # 15 of 33 MAY 28, 2013



Iscdesign

| _ / | Landscape Architect |
|--------------------------|---------------------|
| architects engineers | Architect |
| 7.845.8383 7.852.0916 | Engineer Drawn by |

DESIGN Professional Certification . I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. Date



Park and Planning Commission

Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

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Josiah Henson Park - Facility Plan 1420 Old Georgetown Road, Rockville, MD 20852 RFP #: P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

FIRST FLOOR REFLECTED CEILING PLAN

A-VCB

SHT. # 16 of 33 MAY 28, 2013









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| Park Manager | Date | | | | 1 |

Josiah Henson Park - Facility Plan 11420 Old Georgetown Road, Rockville, MD 20852

RFP #: P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

EXTERIOR ELEVATIONS

SHT. # <u>17</u> of <u>33</u> MAY 28, 2013

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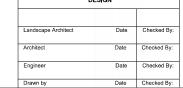
- LIGHT FIXTURE - SEE ELEC. HORIZONTAL SIDING

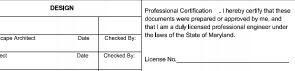
EXTERIOR ELEVATION - WEST

SCALE: 1/4" = 1'-2"

1 EXTERIOR ELEVATION - EAST
A2000 SCALE: 1/4" = 1'-0"











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| Construction Manager | Date | | | |
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05

WOOD TRELLIS —

NOT FOR CONSTRUCTION Josiah Henson Park - Facility Plan 11420 Old Georgetown Road, Rockville, MD 20852 A-VCB

RFP #: P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

EXTERIOR ELEVATIONS

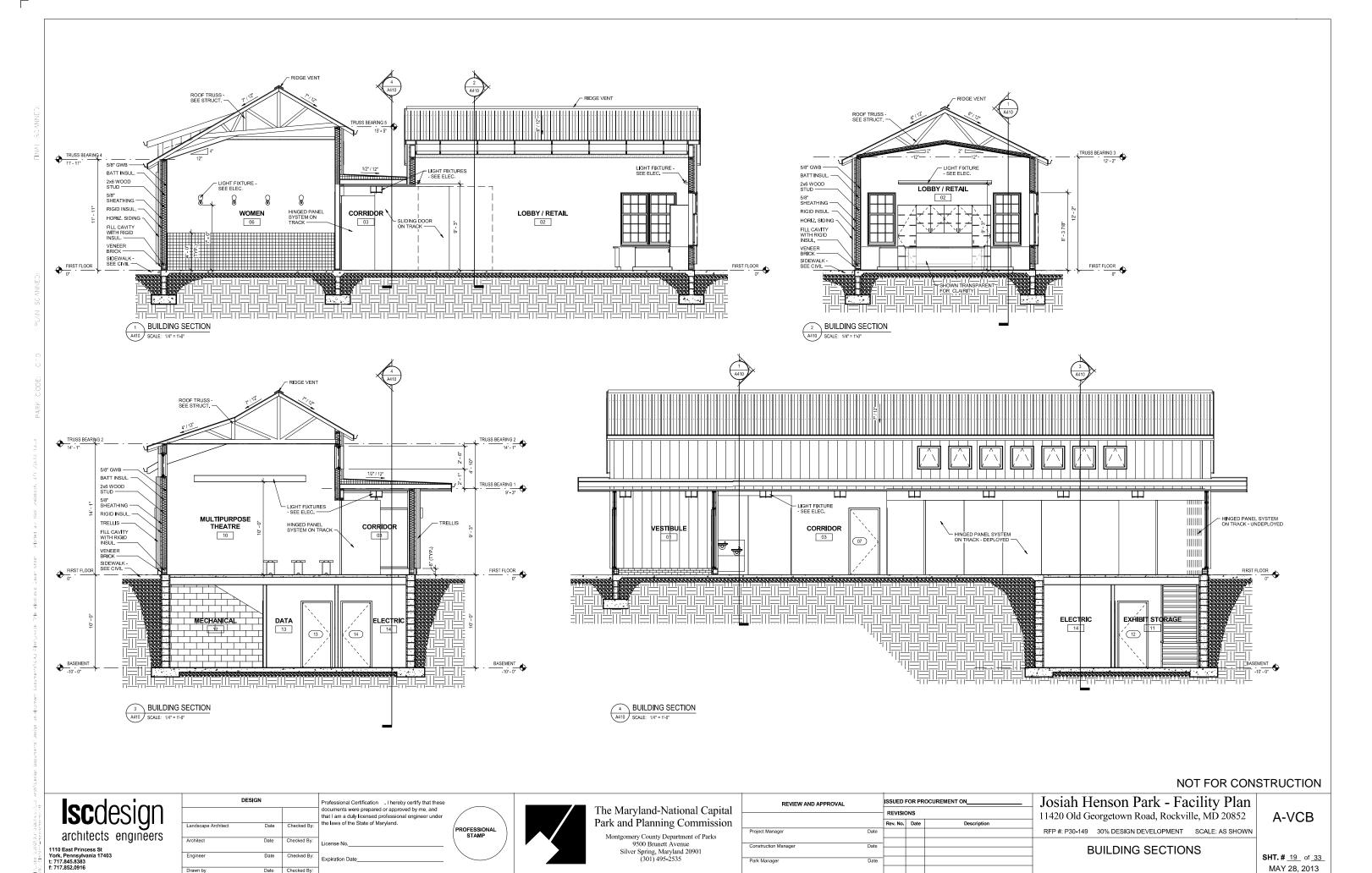
SHT. # <u>18</u> of <u>33</u> MAY 28, 2013

METAL PANEL SIDING -(03E) (03D) EXTERIOR ELEVATION - NORTH

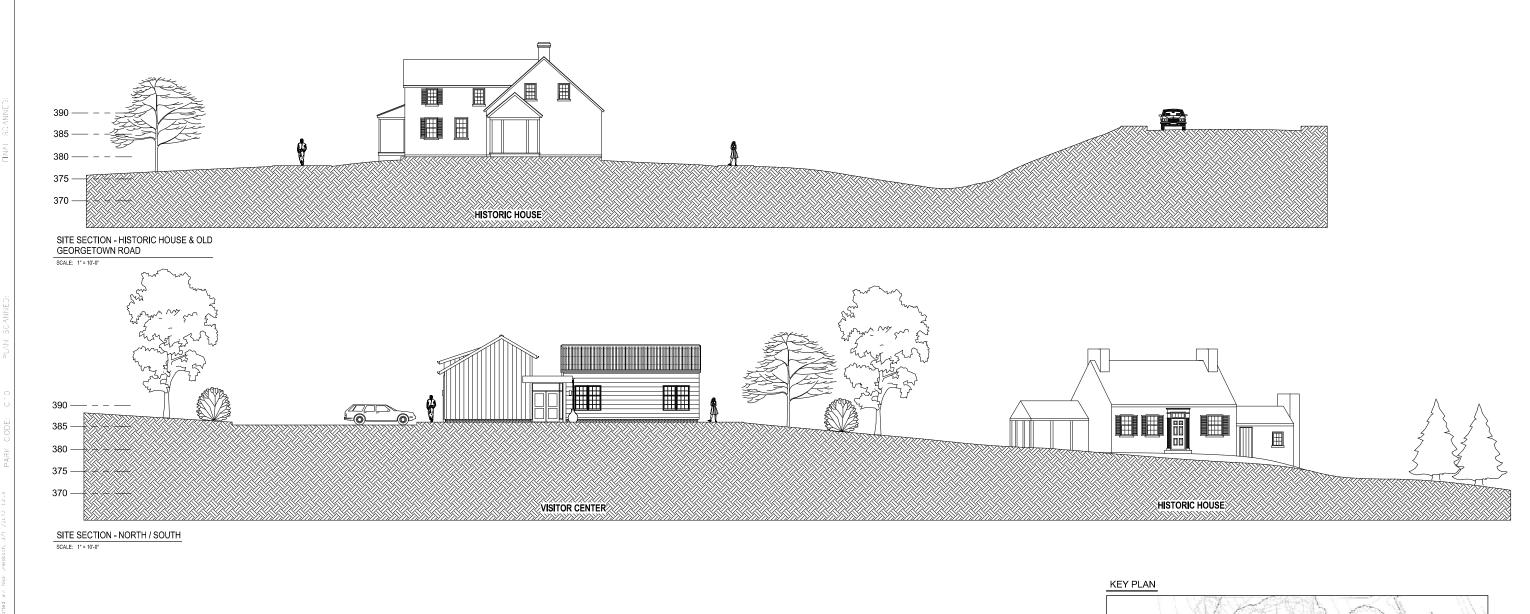
A201 SCALE: 1/4" = 1-0"

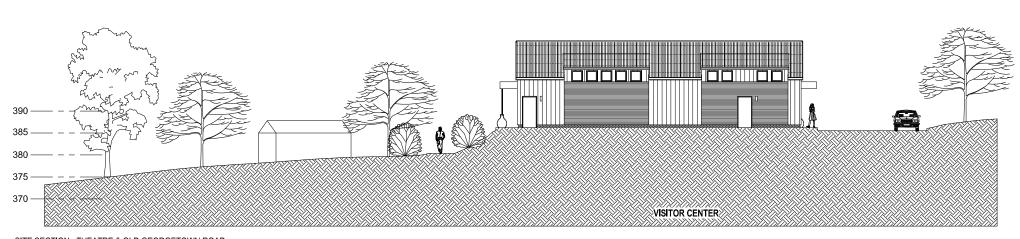
2 EXTERIOR ELEVATION - SOUTH SCALE: 1/4" = 1"-0"

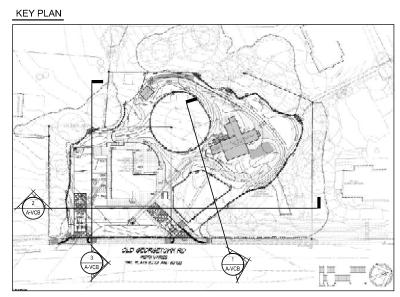
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SITE SECTION - THEATRE & OLD GEORGETOWN ROAD

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| Landscape Architect | Date | Checked By: | the law |
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| Engineer | Date | Checked By: | Expira |
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essional Certification . I hereby certify that these uments were prepared or approved by me, and I am a duly licensed professional engineer under aws of the State of Maryland.



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

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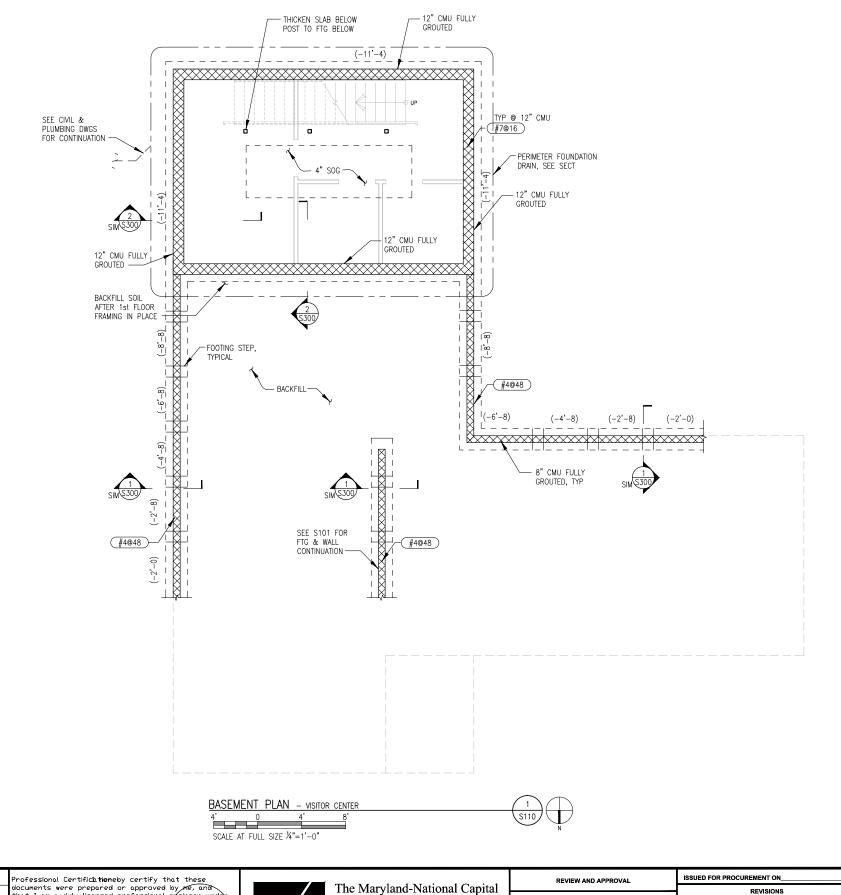
NOT FOR CONSTRUCTION Josiah Henson Park - Facility Plan

11420 Old Georgetown Road, Rockville, MD 20852

SITE SECTIONS

A-VCB RFP #: P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

> SHT.# 20 of 33 MAY 28, 2013



- BASEMENT PLAN NOTES:
 1. 4" SOG INDICATES 4" THICK NORMAL WEIGHT CONCRETE SLAB REINFORCED w/ WWF 6x6 W2.0xW2.0 w/ VAPOR RETARDER OVER 4" DRAINAGE FILL.
- 2. GROUND FLOOR REFERENCE ELEVATION = 100.00'.

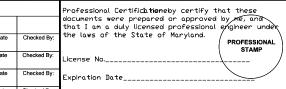
 3. TOP OF SLAB = -10'-0" FROM GROUND FLOOR REFERENCE ELEVATION UNO.

 4. TOP OF FOOTING NOTED (-x-xx) FROM GROUND FLOOR REFERENCE ELEVATION. TOP OF FOOTING = (-2'-0") UNO.

KEAST&HOOD CO.

| architects | en |
|--------------------------|----|
| 1110 East Princess St | |
| York, Pennsylvania 17403 | |
| t: 717.845.8383 | |
| f: 717.852.0916 | |

DESIGN



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

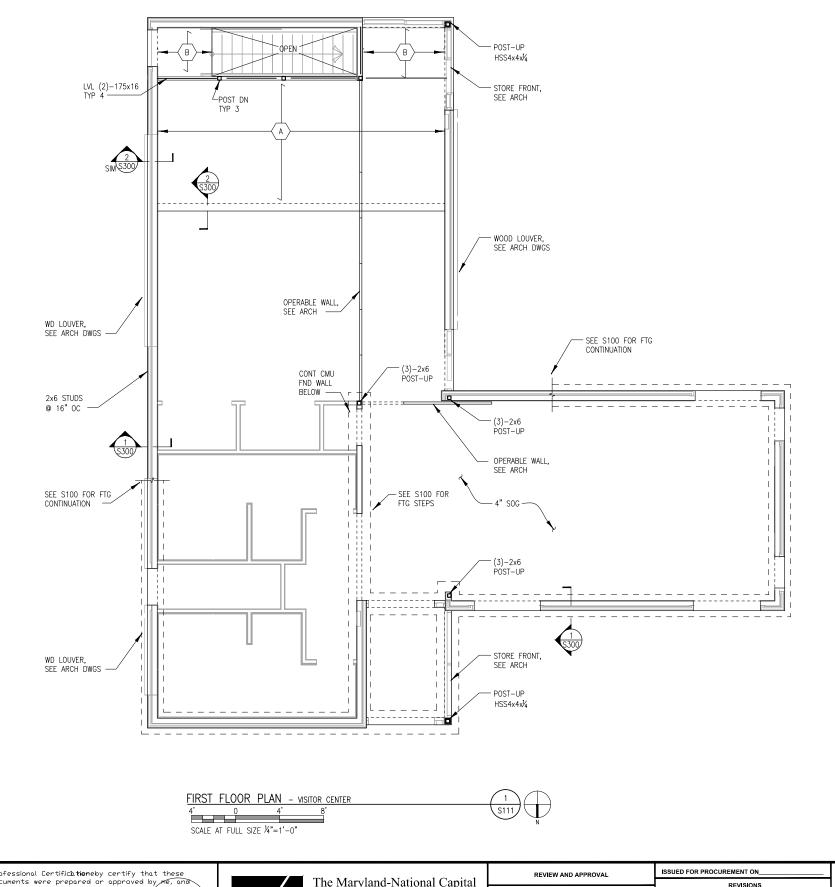
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| Project Manager | Date | | | | RFP #: P3 | |
| Construction Manager | Date | | | | | |
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| Park Manager | Date | | | | | |

Josiah Henson Park - Facility Plan 20 Old Georgetown Road, Rockville, MD 20852

P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN **BASEMENT PLAN**

S-VCB

SHT.# 21 of 33 MAY 28, 2013



- FIRST FLOOR PLAN NOTES:
 1. 4" SOG INDICATES 4" THICK NORMAL WEIGHT CONCRETE SLAB REINFORCED w/ WWF 6x6 W2.0xW2.0 w/ VAPOR RETARDER OVER 4" DRAINAGE FILL.
- 2. GROUND FLOOR REFERENCE ELEVATION = 100.00'.
 3. TOP OF SLAB = -0'-0" FROM GROUND FLOOR REFERENCE
- ELEVATION.
- 4. TOP OF FOOTING NOTED (-x'-xx) FROM GROUND FLOOR REFERENCE ELEVATION. TOP OF FOOTING = (-2'-0) UNO. 5. WOOD STUD WALLS ARE STRUCTURAL SHEAR WALLS SHEATHED
- w/½" STRUCTURAL 1, EXP. 1 PLYWD SHEATHING ON EXTERIOR
 FACE. STRUCTURAL SHEAR WALLS SHALL HAVE A (3)–2X6 POST
 AT EACH END w/ CONTINUOUS UPLIFT ANCHORS TO FOUNDATION.
 6. PLYWOOD WALL SHEATHING SHALL BE ANCHORED TO STUDS w/
- 8d NAILS @ 6" OC @ EDGES, 12" OC OTHERWISE.
- 7. SEE SOOO FOR JACK STUD REQUIREMENTS @ OPENINGS.

WOOD FRAMING KEY:

SPACING INDICATED IS MAXIMUM ON-CENTER (OC) SPACING OF FLOOR AND ROOF FRAMING MEMBERS.

- A 16" TJI 560 JOIST @12" OC w/ 3/4" PLYWOOD & 3" CONC TOPPING
- 16" TJI 230 JOIST @12" OC w/ 1" PLYWOOD DECK & 3" CONC TOPPING REINFORCING w/ WWF 6x6 W2.0xW2.0
- 2x8 RAFTERS @16" OC w/ ¾" ROOF SHEATHING

NOT FOR CONSTRUCTION



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KEAST & HOOD CO.

DESIGN Date Professional Certific**htien**eby certify that the<u>se</u> documents were prepared or approved by re, and that I am a duly licensed professional engineer under the laws of the State of Maryland. PROFESSIONAL STAMP



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

| | REVIEW AND APPROVAL | | ISSUED FOR PROCUREMENT ON REVISIONS | | | Jos: |
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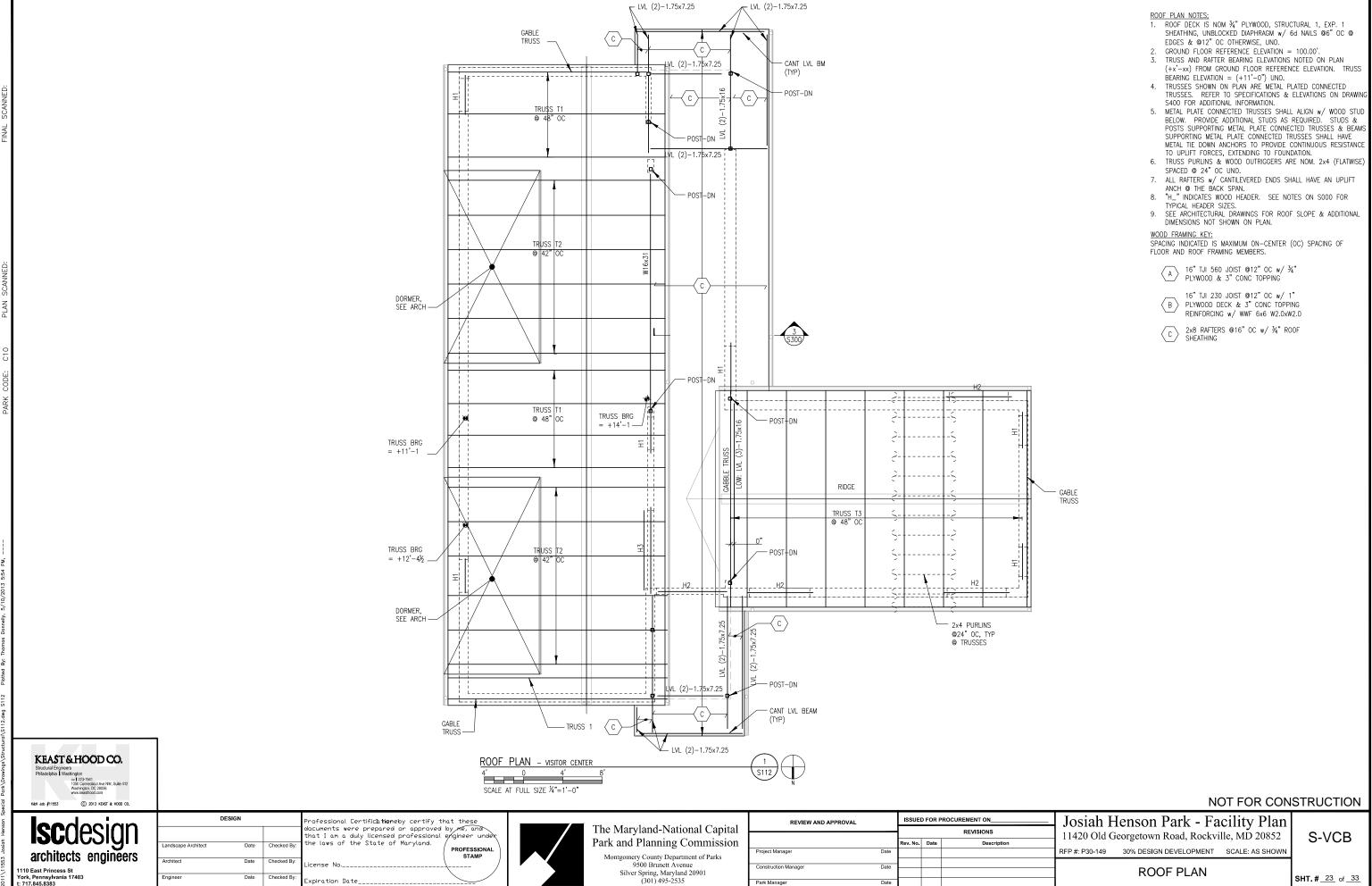
siah Henson Park - Facility Plan 20 Old Georgetown Road, Rockville, MD 20852

P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

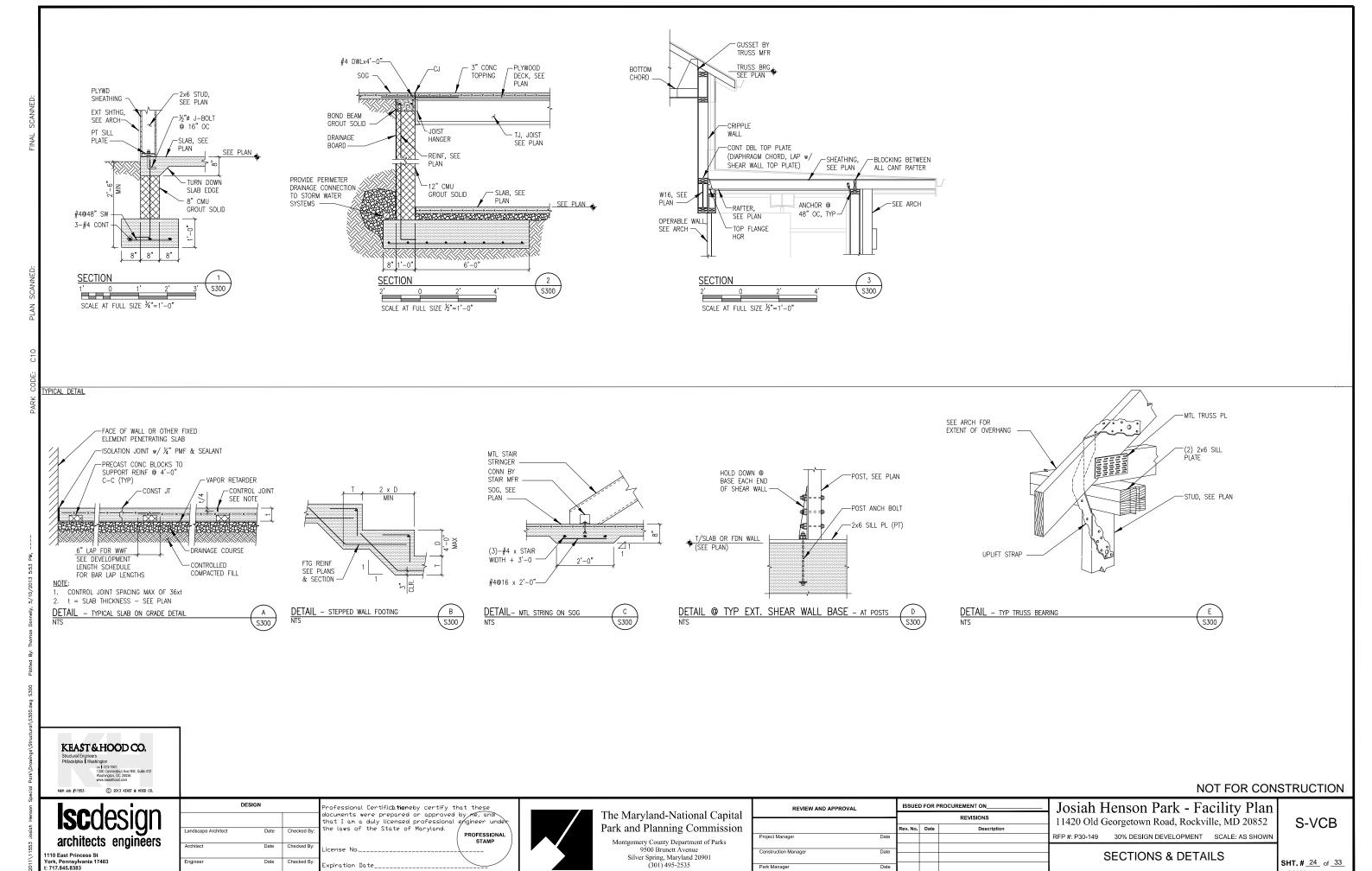
FIRST FLOOR PLAN

S-VCB

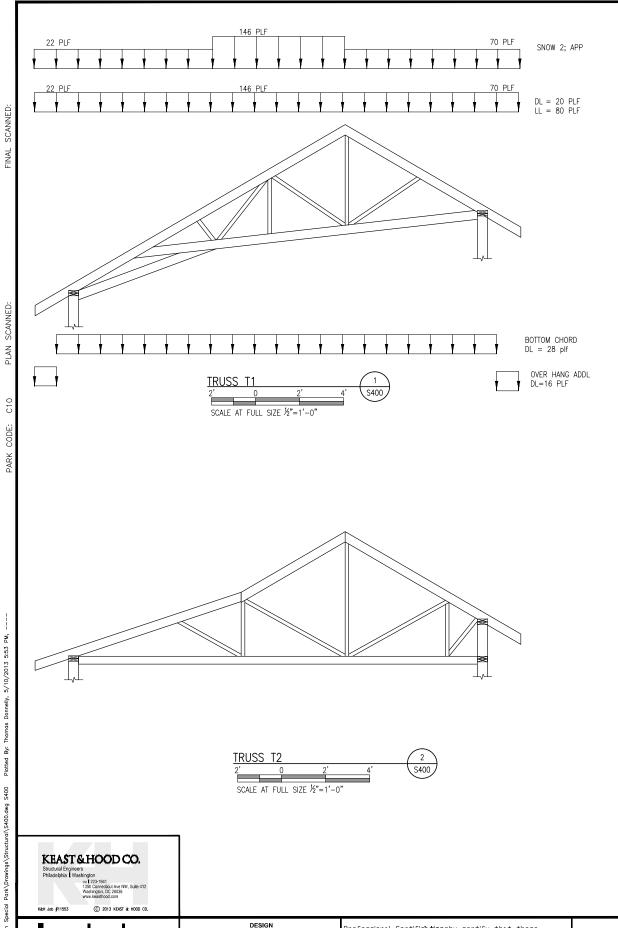
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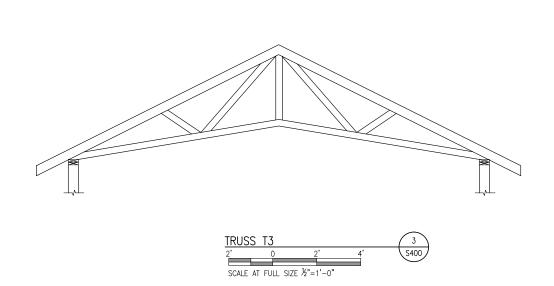


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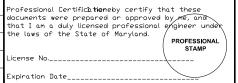




architects engineers

1110 East Princess St York, Pennsylvania 17403 t: 717.845.8383 f: 717.852.0916

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| | | | docume that I |
| Landscape Architect | Date | Checked By: | the la |
| Architect | Date | Checked By: | License |
| Engineer | Date | Checked By: | Expirat |
| Drawn by | Date | Checked By: | |



| The Maryland-National Capital |
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| Park and Planning Commission |

Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

| REVIEW AND APPROVAL | | ISSUEI | — Josia | | |
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| Construction Manager | Date | | | | |
| Park Manager | Date | | | | |
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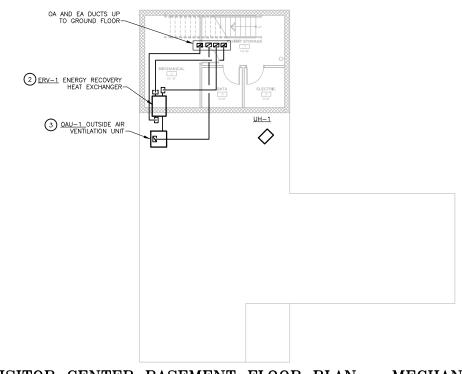
| Josiah H | Ienson Park - Fac | cility Plan |
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| 11420 Old G | eorgetown Road, Rockvil | le, MD 20852 |
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TRUSS ELEVATIONS

30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

S-VCB

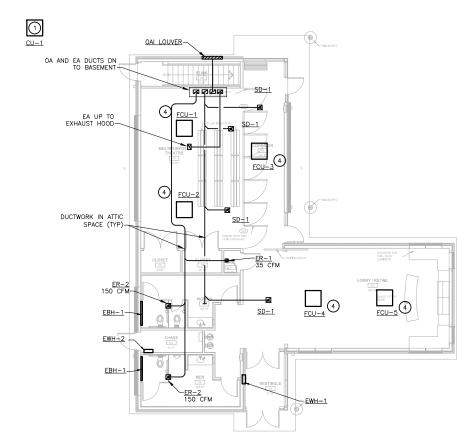
SHT.# 25 of 33 MAY 28, 2013



VISITOR CENTER BASEMENT FLOOR PLAN - MECHANICAL

SCALE: 1/8" = 1'-0"





CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS 10716 GILROY ROAD HUNT VALLEY, MD 21031 Phone: 443-589-2401 Fay: 443-589-2401

VISITOR CENTER FIRST FLOOR PLAN - MECHANICAL

SCALE: 1/8" = 1'-0"

architects engineers

1110 East Princess St York, Pennsylvania 17403 t: 717.845.8383 f: 717.852.0916

| 1 | DESIGN | | Professional Certificationeby certify that these |
|---------------------|--------|-------------|--|
| | | | documents were prepared or approved by me, and that I am a duly licensed professional engineer under |
| Landscape Architect | Date | Checked By: | the laws of the State of Maryland. PROFESSIONAL STAMP |
| Architect | Date | Checked By: | License No |
| Engineer | Date | Checked By: | Expiration Date |
| Drawn by | Date | Checked By: | |

The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

| REVIEW AND APPROV | AL | ISSUE | PROCUREMENT ON | | Jo | |
|----------------------|------|----------|----------------|-------------|----|-------|
| | | | | REVISIONS | | 114 |
| | | Rev. No. | Date | Description | | 11- |
| Project Manager | Date | | | | | RFP # |
| Construction Manager | Date | | | | | |
| Park Manager | Date | H | | | _ | |
| | | | | | - | |

osiah Henson Park - Facility Plan

1420 Old Georgetown Road, Rockville, MD 20852 P#: P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

MECHANICAL PLANS

M-VCB

NOT FOR CONSTRUCTION

SHT.# 26 of 33 MAY 28, 2013

2) FLAT PLATE TYPE ENERGY RECOVERY HEAT EXHANGER WITH INTEGRAL EXHAUST/UPPLY FANS 3 100 PERCENT OUT DOOR AIR VENTILATION UNIT CONNECT REFRIGERANT PIPING TO VRV SYSTEM CONDENSING UNIT

REFERENCE NOTES:

4 CASSETTE TYPE FAN COIL UNIT CONNECT REFRIGERANT PIPING TO VRV SYSTEM CONDENSING UNIT.

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEM CONDENSING UNIT AT GRADE MOUNTED ON 4" THICK CONCRETE PAD

| | GAS FIRED FURNACE W/ DX COOLING COIL & AIR COOLED CONDENSING UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|--|------------|-------------|-------------|-------|--------|------------|--------|---------|------------|---------------------------|---------|---------|-------|-------|---------------------|--------|--|------|------|-------|------|------------|--------|--------------|
| | FORCED AIR FURNACE DIRECT EXPANSION COOLING COIL CONDENSING UNIT | | | | | | | | | | | | | | | | | | | | | | | | |
| DESIG. | | SUPPLY | MIN. | EXT. | MAX. | GAS CA | PACITY MBH | INTAKE | EXHAUST | ELECTRICAL | MANUFACTURER | ENTERI | NG AIR | SENS. | TOTAL | MANUFACTURER | DESIG. | NOMINAL COOLING | | COMP | TOTAL | | ELECTRICAL | WEIGHT | MANUFACTURER |
| DESIG. | AFUE | AIR CFM | O.A. CFM | S.P. H20 | MOTOR | INPUT | OUTPUT | SIZE | SIZE | V-Ø-Hz | MANUFACTURER AND MODEL | *F.D.B. | *F.W.B. | MBH | MBH | AND MODEL | DESIG. | NOMINAL COOLING CAPACITY (TONS) | SEER | RLA | | MOCP | V-Ø-Hz | (LBS.) | AND MODEL |
| GFF-1 | 92.3 | 1,135 | 275 | 0.50 | 0.50 | 60 | 56 | 2" | 2" | 120-1-60 | AMANA *** | 80.0 | 66.2 | 30.6 | 48.9 | MAGICAIRE CNPHP4221 | CU-1 | 3.5 | 15.5 | 17.9 | 23.7 | 40.0 | 208-1-60 | 320 | AMANA |
| GFF-2 | 92.3 | 1,265 | 320 | 0.50 | 0.50 | 60 | 56 | 2" | 2" | 120-1-60 | AMANA | 79.7 | 67.3 | 32.9 | 52.7 | MAGICAIRE CNPHP4821 | CU-2 | 4.0 | 15.5 | 21.8 | 28.5 | 45.0 | 208-1-60 | 326 | AMANA |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

NOTES:

1. EQUIPMENT BASED ON CARRIER EQUIPMENT, MINIMUM SEER 15.0 USING "PURON" R410A REFRIGERANT.

2. HEATING SECTION SHALL BE COMPLIER WITH INTEGRAL CROUT BREAKER.

3. GET_1 AND GFT_2 SHALL BE PROVIDED WITH AN ECONOMIZER BOX AND CONTROLS SO THAT UNIT CAN OPERATE IN ECONOMIZER BOX MODEL MB—AH—***—ENT—HW. SEE FLOOR PLANS FOR EXACT MODEL NUMBER FOR EACH ECONOMIZER BOX. SHIP UNITS SHALL BE PROVIDED WITH AN ECONOMIZER BOX AND CONTROLS SO THAT UNIT CAN OPERATE IN ECONOMIZER BOX AND CONTROLS SO THAT UNIT CAN OPERATE SHIP UNITS SHALL BE PROVIDED WITH A MICROMETLE ECONOMIZER BOX MODEL MB—AH—***—ENT—HW. SEE FLOOR PLANS FOR EXACT MODEL NUMBER FOR EACH ECONOMIZER BOX SHIP UNITS SHALL BE PROVIDED WITH A MICROMETLE ECONOMIZER BOX MODEL WITH A HONEWELL INSTALLATION INSTRUCTIONS WHEN LOCATING THE MODULE, ALL CONTROL SENDOR.

LOCATING THE MODULE, ALL CONTROL SENDOR.

4. CONTROL SENDOR.

5. CONTROL MODILE SHALL BE POWED BY AND ASSOCIATION IN STRUCTIONS WHEN LOCATING THE MODULE, ALL CONTROL SENDOR.

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9. CO

| DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------|-----------------------|------------|---------|--------|-----------|---------|------|---------|---------|-------------|--------|------|------------|--------------|-------------|-------|-------|------|------------|--------------|---------|
| AIR HANDLING UNIT INDOOR SECTION OUTDOOR UNIT | | | | | | | | | | | | | | | | | | | | | | |
| UNIT NO. | UNIT | NOMINAL UNIT | SUPPLY | | COOL | ING 9 95° | AMBIENT | | | HEATI | ING @ 47° / | MBIENT | | ELECTRICAL | INDOOR UNIT | | | TOTAL | | ELECTRICAL | OUTDOOR UNIT | REMARKS |
| NO. | TYPE DESCRIPTION | TONS COOLING CAPACITY | AIR CFM | ENTERII | | SENS. | TOTAL | EFF. | EAT | | HEAT CAP. | | | | MODEL NUMBER | UNIT NO. | COMP. | UNIT | MOCP | V-Ø-Hz | MODEL NUMBER | KEMAKKS |
| | | | | *F.D.B. | F.W.B. | MBH | MBH | SEER | *F.D.B. | *F.D.B. | MBH | WATTS | HSPF | | | | | MUA | | | | |
| AC-1 | 0.75 | 0.75 | 265 | 80 | 67 | 5.3 | 8.5 | 18.0 | 80 | 67 | 5.3 | 8.5 | 18.0 | 208-1-60 | ELA*** | AHPU-1 | 3.4 | 4.4 | 15.0 | 208-1-60 | RKS09JEVJU | 100 |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

1 BASIS OF DESIGN: MITSUBISHI "MULTI"

 \bigcirc Unit shall be complete with manufacturer's wired remote controller.

| | VRV OUTDOOR HEAT RECOVERY UNIT | | | | | | | | | | | | |
|--------|--------------------------------|------|---------------|----------|----------|------|------|-------|----------|---------------|-------------|-------------------|--------------|
| DESIG. | TOTAL COOLING | | TOTAL HEATING | | | | POW | R SUP | PLY | WEIGHT (LBS.) | REFRIGERANT | DIMENSIONS W/H/D | MANUFACTURER |
| D20101 | BTU/H | IEER | BTU/H | TEMP. *F | TEMP. *F | RLA | MCA | MOCP | V/P/Hz | WEIGHT (EBS.) | REFRIGERANI | DIMENSIONS W/11/D | AND MODEL |
| HRU-1 | 68,384 | 22.0 | 69,719 | 95.0 | 9.0 | 18.8 | 36.1 | 40 | 208/3/60 | 732 | R-410A | 51.2"x66.1"x30.1" | DAIKIN REYQ |

COLING AND HEATING CAPACITIES LISTED ARE THE MINIMUM REQUIRED CAPACITIES.
COOLING AND HEATING CAPACITIES LISTED ARE THE MINIMUM REQUIRED CAPACITIES.
COMPRESSORS SHALL BE INVERTER SCROLL TYPE.
IEER LISTED IS MINIMUM REQUIRED IEER.
TOTAL SYSTEM REFRIGERANT CHARGE IS 53.3 LBS AS SEEN ON M4.5. SMALLEST ROOM SERVED IS UNIT 142 (VRF-9), WHICH IS 2,763 CUBIC FEET. BY CODE, MAXIMUM ALLOWABLE LBS
OF REFRIGERANT IN THE SYSTEM IS 69.1 LBS. DAIKIN SYSTEM IS UNDER THE MAXIMUM ALLOWABLE LBS OF REFRIGERANT AND MEETS CODE.

| | ELECTRIC HEATER SCHEDULE | | | | | | | | | | | | |
|----------------|--------------------------|-----|--------|--------------------|------|-------------------------------|--------|-------------------------------|------------|--|--|--|--|
| UNIT DESIG. | LOCATION | CFM | BTU/HR | ELECTRIC HEATER | AMPS | ELECTRICAL CHARACTERISTICS | WEIGHT | MANUFACTURER AND MODEL NUMBER | REMARKS | | | | |
| EWH-1 | VESTIBULE (VC) | 100 | 5120 | 1.5 KW | 7.25 | 208/1/60 | | QMARK CWH3404 | 0000 | | | | |
| EWH-2 | CHASE (VC) | 50 | 1700 | 5.0 KW | | 208/1/60 | | MARKEL HF3326TD-RP | 4 5 | | | | |
| EBH-1 | RESTROOMS (VC) | 50 | 1700 | 5.0 KW | | 208/1/60 | | MARKEL HF3326TD-RP | 46 | | | | |
| UH-1 | MECHANICAL (VC) | 550 | 1700 | 5.0 KW | | 208/1/60 | | MARKEL HF3326TD-RP | 4 5 | | | | |
| | | | | | | | | | | | | | |

MUIES:

(1) HEATERS SHALL BE AS MANUFACTURED AS NOTED IN SCHEDULE.
(2) PROVIDE DISCONNECT SWITCH AND INTEGRAL THERMOSTAT
(3) PROVIDE THERMOSTAT WITH LOCKABLE COVER / GUARD. LOCATE AS SHOWN ON DRAWING.
(4) MATCH UNIT HEATER COLOR WITH ADJACENT CEILING/WALL COLOR.
(5) PROVIDE WITH STANDARD BUILT-IN THERMOSTAT, INTEGRAL DISCONNECT SWITCH, FAN DELAY SWITCH, AUTOMATIC THERMAL SAFETY CUTOUT AND GALVANIZED STEEL INSTALLATION BACK BOX.

| | EXHAUST FAN SCHEDULE | | | | | | | | | | | |
|------------|----------------------|------|---|-----|------------------|------|---------------------|-------------|-----------------|-------------------------------|---------|--|
| FAN NO. | LOCATION-SERVING | WATT | | CFM | S.P. IN. W.G. | RPM | TYPE & DRIVE | CONTROL | ELECT. CHAR. | MANUFACTURER AND MODEL NUMBER | REMARKS | |
| EF-1 | BATH ROOM | 80 | - | 75 | 0.5 | 950 | CEILING EXHAUST FAN | WALL SWITCH | 120/1/60 | GREENHECK MODEL # SP-B110 | 00 | |
| EF-2 | RESTROOMS | 81 | - | 225 | 0.5 | 1044 | CEILING EXHAUST FAN | WALL SWITCH | 120/1/60 | GREENHECK MODEL # SP-A290 | | |
| | | - | | | | | | | | | | |
| | | - | | | | | | | | | | |
| | | | | | | | | | | | | |

① PROVIDE RADIATION DAMPERS ON ALL CEILING MOUNTED EXHAUST FANS, DAMPERS SHALL BE IN ACCORDANCE WITH THE UL CLASSIFICATIONS/REQUIREMENTS FOR CEILING/FLOOR AND CEILING/ROOF ASSEMBLIES.

② EXHAUST FANS EF-1 SHALL BE PROVIDED WITH AN INTEGRAL GRILLE.

③ EXHAUST FAN EF-5 SHALL BE INTERLOCTED WITH OUTSIDE AIR DAMPERS MOD SHOW ON DRAWINGS

| | DIFFUSER, REGISTER AND GRILLE SCHEDULE | | | | | | | | | | | |
|--------|--|--------------|------------------------|------------------------|----------|---------------------|---------------------|---------------------|---------|--------------|----------------------|--|
| | | | NOMINAL | | | | LINEAR | | | | | |
| DESIG. | SERVING | MOUNTING | FACE SIZE INCHES | NECK SIZE INCHES | MATERIAL | SLOT LEN. IN. | SLOT WID. IN. | QTY. OF SLOTS | PATTERN | CFM RANGE | REMARKS | |
| LS-1 | SUPPLY | CEILING/WALL | 48x5 | 8"OVAL | ALUMINUM | 48 | 3/4 | 2 | ADJ | 0-200 | TITUS MODEL ML-38 ① | |
| LS-2 | SUPPLY | CEILING/WALL | 48×7 | 10"OVAL | ALUMINUM | 48 | 3/4 | 3 | ADJ | 201-260 | TITUS MODEL ML-38 ① | |
| | | | | | | | | | | | | |
| LR-1 | SUPPLY | CEILING/WALL | 48x4 | 8"OVAL | ALUMINUM | 48 | 3/4 | 1 | ADJ | 0-160 | TITUS MODEL MLR-38 1 | |
| LR-2 | SUPPLY | CEILING/WALL | 48x5 | 10"OVAL | ALUMINUM | 48 | 3/4 | 2 | ADJ | 161-300 | TITUS MODEL MLR-38 ① | |
| | | | | | | | | | | | | |

1) ALL CEILING MOUNTED DIFF OR REG ARE TO HAVE FUSIBLE LINK RADIATION DAMPERS AND SHALL COMPLY W/REQUIREMENTS OF UL-L521(1ST, 2ND, & 3RD FLOORS) OR L531 (FOR 4TH FLOOR).

2) MAX AIR PRESSURE DROP (APD) .1"WG

3) MAX NC 30

4) ALL SUPPLY DIFFUSERS INDICATED SHALL BE SD-X WITH ASSOCIATED AIR QUANTITIES (CFM) DICTATING NECK SIZE AND DESIGNATION PER SCHEDULE.

5) ALL AIR DEVICES SHALL BE TITUS OR APPROVED EQUAL.

 $\ensuremath{\bigcirc}$ contractor shall supply titus MPI-38 plenum for supply and return.

CENTURY
ENGINEERING
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HUNT VALLEY, MD 21031
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ISCdesign architects engineers 1110 East Princess St York, Pennsylvania 17403 t: 717.845.8383 f: 717.852.0916

DESIGN

Professional Certificationeby certify that these documents were prepared or approved by Me. and that I am a duly licensed professional engineer under the laws of the State of Maryland. PROFESSIONAL STAMP



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

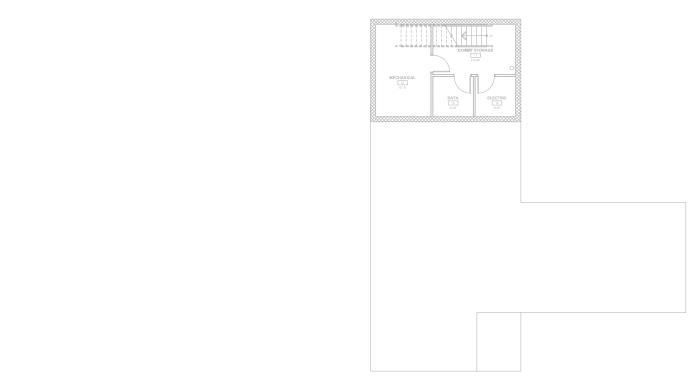
| REVIEW AND APPROVAL | | ISSUEI | Jo | | |
|----------------------|------|----------|------|-------------|--------|
| | | | | REVISIONS | 114 |
| | | Rev. No. | Date | Description | 1 ** ' |
| Project Manager | Date | | | | RFP# |
| | | | | | |
| Construction Manager | Date | | | | l |
| | | | | | |
| Park Manager | Date | 1 | | | |
| | | | | | 1 |

osiah Henson Park - Facility Plan 420 Old Georgetown Road, Rockville, MD 20852 #: P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

MECHANICAL SCHEDULES

M-VCB

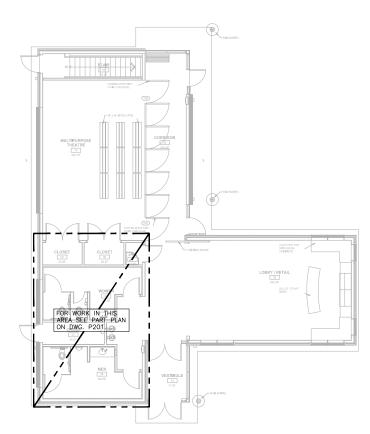
SHT. # 27 of 33 MAY 28, 2013



VISITOR CENTER BASEMENT FLOOR PLAN - PLUMBING

SCALE: 1/8" = 1'-0"





CENTURY
BIGINEBEING
CONSULTING ENGINEERS - PLANNERS
10716 GILROY ROAD
HUNT VALLEY, MD 21081
Phone: 443-589-2401

VISITOR CENTER FIRST FLOOR PLAN - PLUMBING

SCALE: 1/8" = 1'-0"



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ISCGESIGN architects engineers 1110 East Princess St York, Pennsylvania 17403 t: 717.845.8383 f: 717.852.0916

| | DESIGN | |
|---------------------|--------|-------------|
| | | |
| Landscape Architect | Date | Checked By: |
| Architect | Date | Checked By: |
| Engineer | Date | Checked By: |
| Drawn by | Date | Checked By: |

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| | REVIEW AND APPROVAL | | ISSUED FOR PROCUREMENT ON | | | | |
|--|-------------------------|----|---------------------------|------|-------------|-----|--|
| | | | REVISIONS | | | | |
| | | | Rev. No. | Date | Description | 114 | |
| | Project Manager Da | te | | | | RFP | |
| | Construction Manager Da | te | | | | | |
| | | | | | | l | |
| | Park Manager Da | te | | | | | |
| | | | | | | | |

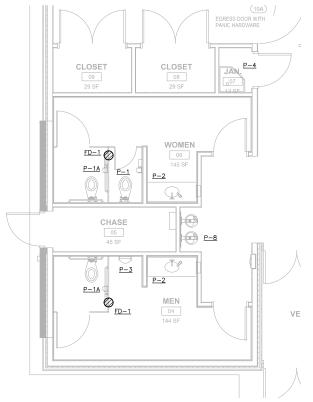
Iosiah Henson Park - Facility Plan 1420 Old Georgetown Road, Rockville, MD 20852

P #: P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

PLUMBING PLANS

P-VCB

SHT.# 28 of 33 MAY 28, 2013



PART PLAN

DESIGN

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| | REVIEW AND APPROVAL | | | ISSUED FOR PROCUREMENT ON | | | | |
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| | | | | | | | | |
| | | | Rev. No. | Date | Description | | 114 | |
| | Project Manager | Date | | | | | RFP# | |
| | Construction Manager | Date | | | | | | |
| | Constitution Manager | Date | | | | | | |
| | Park Manager | Date | | | | | | |
| | | | | | | | | |

PLUMBING ROUGH-IN SCHEDULE C.W. H.W.

1/2"

1/2"

3/4"

1/2"

1/2"

1/2" 1/2"

1/2"

3/4"

3/4"

1/2"

1/2"

4"

2"

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2"

3"

2"

(2) 1-1/2" 1-1/2"

1-1/2"

1-1/2"

1-1/2"

1-1/2"

WALL MTD, 1.28 GPF ELECTRONIC FLUSH VALVE WALL MTD, 1.28 GPF, ADA COMPLIANT ELECTRONIC FLUSH VALVE FLOOR MTD, 1.28 GPF FLUSH TANK

WALL MTD, 1.5 GPM FAUCET WALL MTD, 0.5 GPF, ADA COMPLIANT ELECTRONIC FLUSH VALVE

WALL MTD, ADA COMPLIANT RECESSED CHILLER

FLOOR MOUNTED, 2.5 GPM FAUCET

FIXTURE

P-1B

P-2A

P-3

P-4

P-6

P-7

WATER CLOSET

WATER CLOSET

JANITOR MOP BASIN

BI-LEVEL WATER COOLER

LAUNDRY SINK

SHOWER

NOT USED

FLOOR DRAIN

URINAL

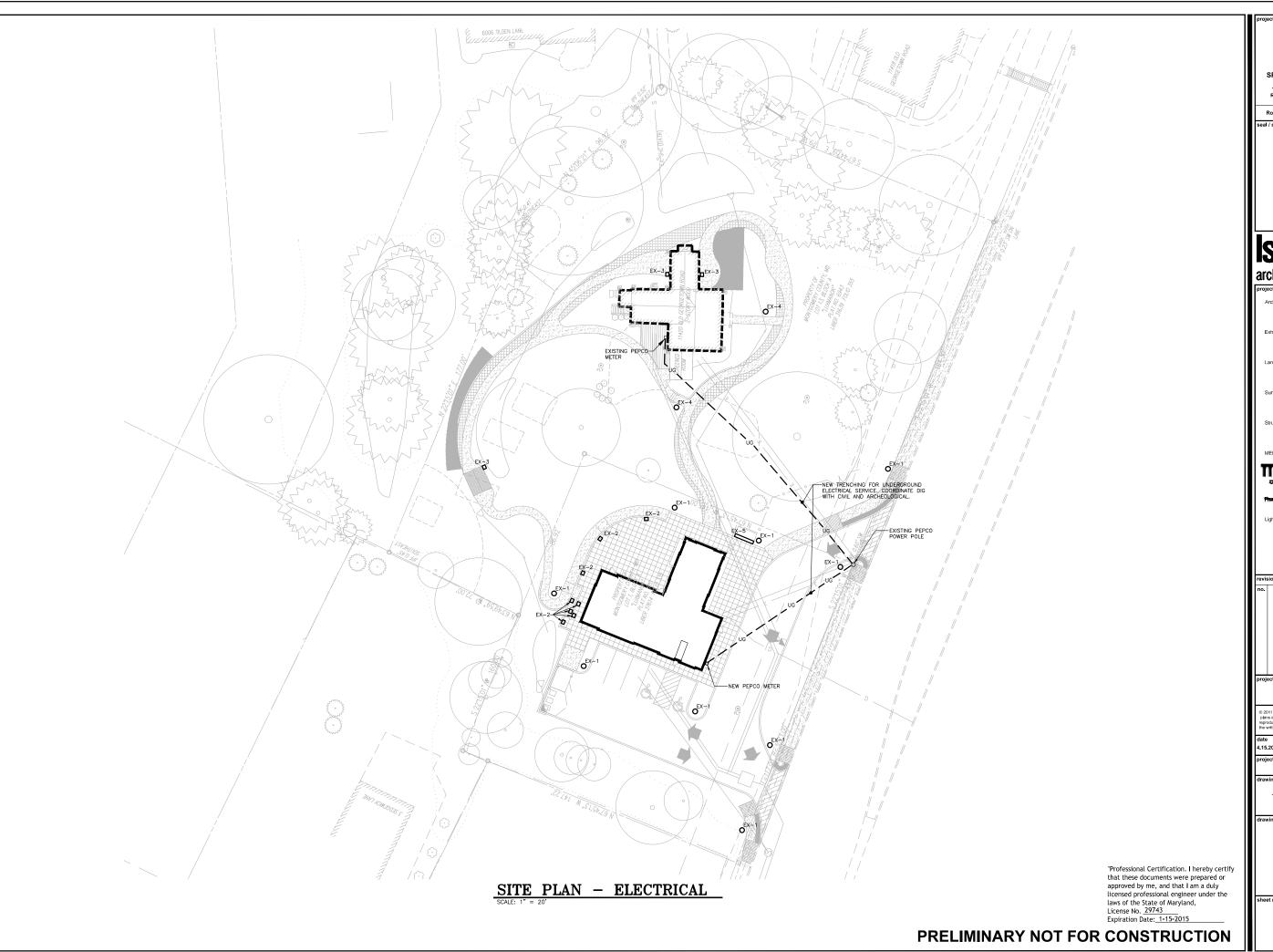
NOT FOR CONSTRUCTION osiah Henson Park - Facility Plan

1420 Old Georgetown Road, Rockville, MD 20852 #: P30-149 30% DESIGN DEVELOPMENT SCALE: AS SHOWN

PLUMBING PLANS

SHT.# 29 of 33 MAY 28, 2013

P-VCB



JOSIAH HENSON

Iscdesign architects engineers

Structural Engineer: Keast & Hood Co. 1850 M Street NW, Suite 610 Washington DC 20036

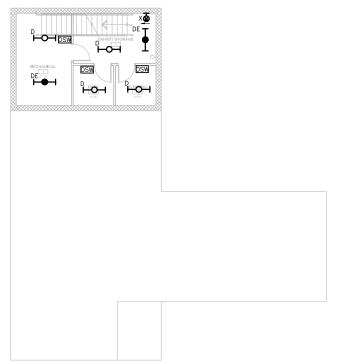
CENTURY ENGINEERING CONSULTING ENGINEERS - PLAN TOTAL GREAT PLAN TOTAL GRE

15% PROGRESS SET

SITE PLAN -ELECTRICAL

E-VCB

SHT. # 30 of 33 MAY 28, 2013



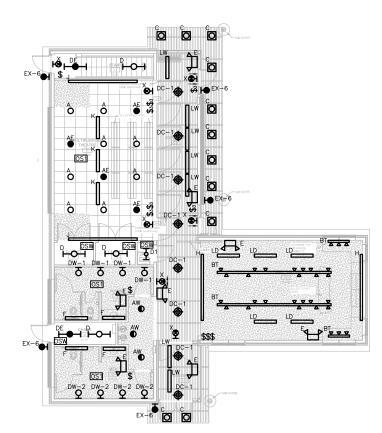
VISITOR CENTER BASEMENT FLOOR PLAN - LIGHTING



VISITOR CENTER BASEMENT FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"





VISITOR CENTER FIRST FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

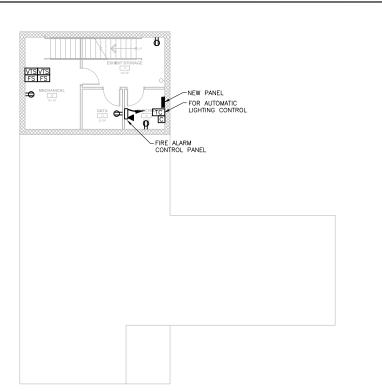


VISITOR CENTER FIRST FLOOR PLAN - POWER SCALE: 1/8" = 1'-0"



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PRELIMINARY NOT FOR CONSTRUCTION



JOSIAH HENSON SPECIAL PARK PROJECT

11420 OLD GEORGETOWN RD ROCKVILLE, MARYLAND 20852

Iscdesign architects engineers

Site Resources, Inc. 14315 Jarretsville Pike Pheonix, MD 21131

Structural Engineer: Keast & Hood Co. 1850 M Street NW, Suite 610 Washington DC 20036

CENTURY ENGINEERING CONSULTING ENGINEERS - PLAN 10710 GELECY ROAD HANT YALLEY, MD 20281 Phome 443-559-2400 Reg 443-559-2

ing Designer Bruce Dunlop Lighting Design LLC 1134 York Road, Suite 200 Lutherville, MD 21093

| revis | ions | |
|-------|------|-------------|
| no. | date | description |
| | | |

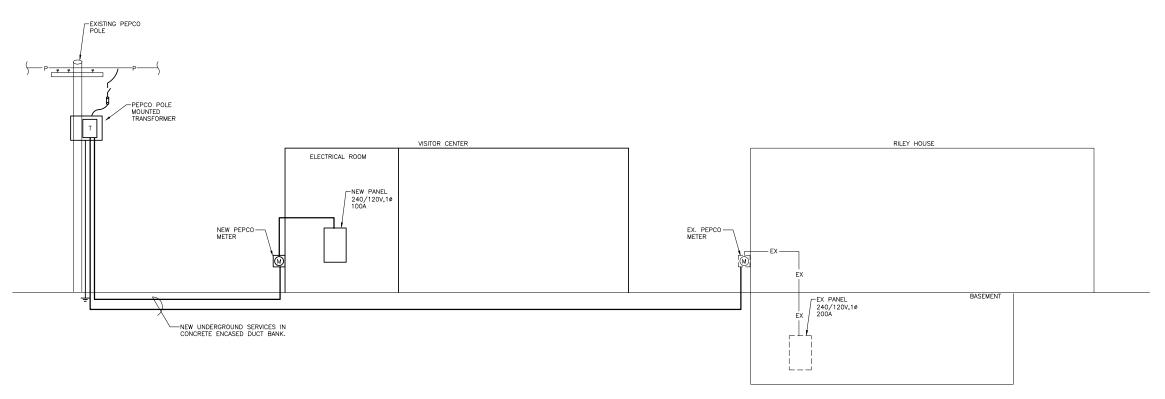
See Plan

15% PROGRESS SET

VISITOR CENTER BASEMENT, FIRST & SECOND FLOOR PLANS - LIGHTING AND POWER

E-VCB

SHT. # <u>31</u> of <u>33</u> MAY 28, 2013



POWER RISER DIAGRAM

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JOSIAH HENSON SPECIAL PARK PROJECT

Iscdesign architects engineers

Architect: LSC Design Inc 1110 East Princess Street York, PA 17403

Landscape Architect / Civil Engineer: Site Resources, Inc. 14315 Jarretsville Pike Pheonix, MD 21131

veyor: A. Morton Thomas 12530 Parklawn Drive, Suite 400 Rockville, MD 20852

Structural Engineer: Keast & Hood Co. 1850 M Street NW, Suite 610 Washington DC 20036

See Plan

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4.15.2013

15% PROGRESS SET

POWER RISER DIAGRAMS

E-VCB

SHT.# <u>32</u> of <u>33</u> MAY 28, 2013

| BR | UCE DUNL Project. | OP LIGHTING DESIGN, LLC | | LLSC DESIGN | | FIXTURE SCHEDULE |
|------|----------------------|-----------------------------------|----------|------------------|-------------|------------------------------------|
| | , | EXTERIOR LIGHTING | | | | |
| | Location | BETHESDA, MARYLAND | Engineer | CENTURY ENGINE | ERING | Date: April 8, 2013 |
| | | | | | Preliminary | 20% Design Submission; Revision #1 |
| Туре | Manufacturer | Catalog Number | Voltage | Lamp | Mounting | Notes |
| EX-1 | SELUX | SAZ-SP-1-H100-BZ-VOLTAGE | TBD | CMH100/C/ | POLE | VISITOR CENTER POST LIGHT |
| | FIXTURE | | | U/MED/3K | | |
| EX-1 | SE'LUX | A35-12-BZ-BC1 | NA | NA | CONCRETE | |
| | POLE | | | | BASE | |
| EX-2 | FC LIGHTING | FCSL-520-VOLTAGE-LED-3K-COLOR-OP | TBD | 3000K LED'S | RECESSED | RECESSED STEPLIGHT |
| | | | | INCLUDED | IN-WALL | REFER TO ELEVATIONS DWGS FOR |
| | | | | | | MOUNTING HEIGHTS. |
| EX-3 | RESTORATION | 68050069-WZ | 120 | 1910 SQUIRREL | WALL | HOUSE WALL-MOUNT |
| | HARDWARE | | | CAGE BULB | | REFER TO ELEVATIONS DWGS FOR |
| | | | | | | MOUNTING HEIGHTS |
| FX-4 | TROY LIGHTING | P3295-M WITH MATCHING 8' POLE | 120 | | CONCRETE | HOUSE POST LIGHT |
| | | | | | BASE | |
| EX-5 | TARGETTI | MLIN-4'-25W/18WLED/WW-24VDC-GREY- | 24VDC | | | KIOSK ACCENT |
| | | LINEAR FLOOD-1" BRACKET | | | | **PROVIDE REMOTE-MTD. DRIVER |
| | | | | | | REFER TO SECTION DWGS FOR |
| | | | | | | FIXTURE LOCATION |
| EX-6 | RESTORATION | 672-16-WP-CFL/1/27-VOLTAGE-DP | TBD | PHILIPS A-19 LED | WALL | VISITOR CENTER WALL-MOUNTED |
| | HARDWARE | | | 414839 | | REFER TO ELEVATIONS DWGS FOR |
| | | | | | | MOUNTING HEIGHTS |
| | | | | | | EMERGENCY FIXTURE |
| FX-7 | BORDEN I TG | 719-I FD/1-10 5-VOI TAGE-NB7 | TBD | 3000K LED'S | WALL | VISITOR CENTER SHED WALL-MTD |
| EX-7 | BORDEN LTG. | 719-LED/1-10.5-120-SGW | 120 | 3000K LED'S | WALL | HOUSE PORCH WALL-MOUNTED |

| | Project: | JOSIAH HENSON SPECIAL PARK VISITOR CENTER - INTERIOR LIGHTING | | : LSC DESIGN | | B |
|--------|----------------------------|---|------------|---|---|--|
| | Location; | | Engineer | CENTURY ENGINE | ERING | Date: April 8, 201 |
| Туре | Manufacturer | Catalog Number | Voltage | Lamp | Preliminary Mounting | 20% Design Submission; Revision # Notes |
| A | USAI | 3231A30-AC1-10-LRTA4-8424-C2-30KH-30- | TBD | 3000K HIGH-CRI | | MP ROOM DIMMABLE DOWNLIGHTS |
| | COVI | NC-VOLTAGE-DIML2 | 100 | 24W LED'S | ATC | INF ROOM DIMINIABLE BOWNERS 113 |
| | | | | | | |
| AE | USAI | 3231A30-AC1-10-LRTA4-8424-C2-30KH-30-EML | TBD | 3000K HIGH-CRI | | MP ROOM DIMMABLE DOWNLIGHTS |
| _ | | NC-VOLTAGE-DIML2 | | 24W LED'S | ATC | BATTERY BACKUP |
| AW | USAI | 3231A30-AC1-10-LRTA4-8424-C2-30KH-30- | TBD | 3000K HIGH-CRI | RECESSED | RESTROOM ALCOVE WALL-WASH |
| , | - CONT | NC-VOLTAGE | 100 | 24W LED'S | DRYWALL | NEO THOUSAN NEO VE TO LEE TO LEE |
| | | | | | | |
| В | JUNO | T209LED-35-K-NFL-WH | 120 | 3300K HIGH-CRI | TRACK | RETAIL TRACK FIXTURE |
| _ | | | | 35W LED'S | | |
| ВТ | JUNO | SINGLE-CIRCUIT TRACK SYSTEM IN WHITE | 120 | NA | SURFACE | RETAIL TRACK SYSTEM |
| | LUITO | FINISH | 120 | | CEILING | PROVIDE LENGTHS, FEEDS AND |
| | | | | | | CONNECTORS AS REQ'D. FOR A |
| | | | | | | COMPLETE SYSTEM. |
| _ | | | | | | |
| С | USAI | 3110W-AB1-28-LSTD4-9016-C2-30H-30-SP- VOLTAGE | TBD | 3000K HIGH-CRI | WOODCLG | EXTERIOR SQUARE ACCENT |
| _ | | VULIAGE | | LEDS | WOOD GEG. | LIGHTS |
| D | COLUMBIA | CS4-232-EPU-CSWG4 | 120 | 2-32W | SURFACE | BACK OF HOUSE |
| | | 48" FLUORESCENT STRIP | | | | |
| | | | | | | |
| DE | COLUMBIA | CS4-232-EPU-CSWG4-EL | 120 | 2-32W | SURFACE | BACK OF HOUSE |
| _ | | 48' FL STRIP W/ BATTERY BACKUP | | | | |
| D1 | COLUMBIA | CS2-217-EPU-CSWG2 | 120 | 2-17W | SURFACE | BACK OF HOUSE |
| | | 24" FLUORESCENT STRIP | | | | |
| | | | | | | |
| DC-1 | TROY LIGHTING | C1742-AB7 | 120 | 2-PHILIPS A-19 | | CORRIDOR DECORATIVE CEILING |
| | | | | LED'S - 414839 | WOOD CLG. | LIGHT |
| DP-1 | REJUVENATION | HOOD-18" OP AL SHADE-BURN, ANTIQUE- | 120 | 1-PHILIPS A-19 | CORD | RETAIL PENDANT |
| | | WIRE-INC | | | | REFER TO SECTION DWG FOR |
| | | | | | | SUSPENSION HEIGHT |
| | | | | | | |
| DW 1 | RESTORATION HARDWARE | VINTAGE ENGLISH OVAL GLASS SCONCE | 120 | PHILIPS A-19 | SURFACE | WOMEN'S ROOM WALL SCONCE |
| | HARDWARE | IN BRONZE FINISH | | LED - 414839 | WALL | REFER TO ELEVATION DWG FOR MOUNTING HEIGHT. |
| | | | | | | |
| DW2 | RESTORATION | TACOMOA #B2472BB | 120 | 2-PHILIPS A-19 | | MEN'S ROOM WALL SCONCE |
| | HARDWARE | | | LED'S - 414839 | | REFER TO ELEVATION DWG FOR |
| | | | | | | MOUNTING HEIGHT. |
| F | DUAL LITE | F7.2.DJ | 120 | INCLUDED | | EMERGENCY BATTERY PACK |
| | | EMERGENCY BATTERY PACK | | | | |
| | | | | | | |
| F | KENALL | MLHA8-48-F-LG-PP-2-28-RS-1-VOLTAGE | TBD | 2-F28T5/835 | SURFACE | RESTROOM WALL FIXTURE |
| - | | | | | | REFER TO ELEVATION DWG FOR MOUNTING HEIGHT. |
| _ | | | | F21T5/835 | UNDER | RETAIL UNDER-CABINET TASK |
| | LINO | IIPE34 SI 120 | 120 | | | REFER TO SECTION DWG FOR |
| | JUNO | UPF34-SL-120 | 120 | F211:86.33 | CABINET | |
| | JUNO | UPF34.SL-120 | 120 | F7113033 | | FIXTURE LOCATION |
| G | | | | | CABINET | FIXTURE LOCATION |
| G | JUNO | UPF34.SI -120 P-115HO-1Z-FL-VOLTAGE-1C-W-V | 120 TBD | 3-F2T85/835 | CARINET | FIXTURE LOCATION RETAIL WALL-MTD UPLIGHT |
| G | | | | | CABINET | FIXTURE LOCATION RETAIL WALL-MTD UPLIGHT REFER TO SECTION DWG FOR |
| G | | | | 3-F2T85/835 | CARINET | FIXTURE LOCATION RETAIL WALL-MTD UPLIGHT |
| G | | | | 3-F2T85/835 | CARINET | FIXTURE LOCATION RETAIL WALL-MTD UPLIGHT REFER TO SECTION DWG FOR |
| н | PINNACLE | P-ITSHO-12-FL-VOLTAGE-1C-W-V | TBD | 3-F2T85/835 PER 12 LENGTH | SURFACE WALL | FIXTURE I OCATION RETAIL WALL-MITD UPLIGHT REFER TO SECTION DWG FOR FIXTURE I OCATION MP ROOM DIMMABLE WALL-MITE LINEAR DIRECTINDIRECT FIXTURE |
| н | PINNACLE | P-175HO-12-FL-VOLTAGE-1C-W-V | TBD | 3-F2T85/835 PER 12 LENGTH 3-F54T5H0/835 | SURFACE WALL | FIXTURE I OCATION RETAIL WALL-MITD UPLIGHT REFER TO SECTION DWG FOR FIXTURE I OCATION MP ROOM DIMMABLE WALL-MIT LINEAR DIRECTINDIRECT FIXTUR REFER TO BLEVATION DWG FOR |
| н | PINNACLE | P-175HO-12-FL-VOLTAGE-1C-W-V | TBD | 3-F2T85/835 PER 12 LENGTH 3-F54T5H0/835 | SURFACE WALL | FIXTURE I OCATION RETAIL WALL-MITD UPLIGHT REFER TO SECTION DWG FOR FIXTURE I OCATION MP ROOM DIMMABLE WALL-MITE LINEAR DIRECTINDIRECT FIXTURE |
| G H | PINNACLE | P.175HO.1Z.FL.VOLTAGE.1C.W.V. I.BA.175HO.12:WA.VOLTAGE.1D.W. PROVIDE 2-WIRE DIMMING BALLAST | TBD | 3-F2T85/835 PER 12 LENGTH 3-F54T5HO/835 PER 12 LENGTH | SURFACE WALL | FIXTURE LOCATION RETAIL WALL-INTO UPLIGHT REFER TO SECTION DWG FOR FIXTURE LOCATION IN PROMD DIMMBLE WALL-INTO LINEAR DIRECTINIORECT FIXTUR REFER TO ELEVATION DWG FOR MOLINTING HEIGHT |
| G H | PINNACLE PINNACLE | P-175HO-12-FL-VOLTAGE-1C-W-V | TBD | 3-F2T85/835 PER 12 LENGTH 3-F54T5H0/835 | SURFACE WALL WALL | FIXTURE LOCATION RETAIL WALL-INTO UPLIGHT REFER TO SECTION DWG FOR FIXTURE LOCATION IN PROMD DIMMBLE WALL-INTO LINEAR DIRECTINIORECT FIXTUR REFER TO ELEVATION DWG FOR MOLINTING HEIGHT |
| G H | PINNACLE PINNACLE PINNACLE | P-175HO-12-FL-VOLTAGE-1C-W-V 1 BA-175HO-12-W-A-VOLTAGE-1D-W PROVIDE 2-WIRE DMMING BALLAST EW-175HO-4-G'-G-VOLTAGE-1D-W-B PROVIDE 2-WIRE DMMING BALLAST | TBD | 3-F2T85/835 PER 12 LENGTH 3-F54T5HO/835 PER 12 LENGTH | SURFACE WALL WALL | FACTURE LOCATION RETAIL WALL-INTO UPLIGHT REFER TO SECTION DWG FOR FEXTURE LOCATION MP ROOM DIMMABLE WALL-INTO LINEAR DIRECTINIORECT FIXTUR REFER TO ELEVATION DWG FOR MOLINTING HEIGHT. |
| G H | PINNACLE PINNACLE | P-175HO-1Z-FL-VOLTAGE-1C-W-V I BA-175HO-12-WA-VOLTAGE-1D-W PROVIDE 2-WIRE DMMING BALLAST EW-175HO-4-C*G-VOLTAGE-1D-W-B | TBD | 3-F2T85/835 PER 12 LENGTH 3-F54T5HO/835 PER 12 LENGTH | SURFACE WALL WALL SEMI- RECESSED | FRITURE LOCATION RETAIL WALL-INTO UPLIGHT REFER TO SECTION DWG FOR FOURTH LOCATION MP ROOM DIMMARIE WALL-INTO LINEAR DIRECTINIDIRECT FIXTUP REFER TO ELEVATION DWG FOR MOINTING HEIGHT MP ROOM DIMMABLE LINEAR WA RETAIL LINEAR WALL-WASHIN |
| G H | PINNACLE PINNACLE PINNACLE | P-175HO-12-FL-VOLTAGE-1C-W-V 1 BA-175HO-12-W-A-VOLTAGE-1D-W PROVIDE 2-WIRE DMMING BALLAST EW-175HO-4-G'-G-VOLTAGE-1D-W-B PROVIDE 2-WIRE DMMING BALLAST | TBD TBD | 3.FZT85/835 PER 1Z LENGTH 3.F54T5HO/835 PER 1Z LENGTH 1.F54T5HO/835 | SURFACE WALL WALL SEMI- RECESSED | FRITURE LOCATION RETAIL WALL-MYD UPLIGHT REFER TO SECTION DWG FOR FRITURE 1 GOLATION MP ROOM DIMMABLE WALL-MYT LINEAR DIREC THINDIRECT FIXTUR MOUNTMENT HERST MP ROOM DIMMABLE LINEAR YA |
| G H | PINNACLE PINNACLE PINNACLE | P-175HO-1Z-FL-VOLTAGE-1C-W-V I BA-175HO-12-W-A-VOLTAGE-1D-W PROVIDE 2-WIRE DMMING BALLAST EW-115HO-4-G'G-VOLTAGE-1D-W-B PROVIDE 2-WIRE DMMING BALLAST EW-115HO-4-FL-VOLTAGE-1C-W-B | TBD TBD | 3.F2T85835 PER 1Z LENGTH 3.F54T5H0/835 PER 1Z LENGTH 1.F54T5H0/835 | SURFACE WALL WALL WALL SEMI- RECESSED SEMI- RECESSED | FRITURE LOCATION RETAIL WALL-MTD UPLIGHT REFER TO SECTION DWG FOR FRUTURE LOCATION MP ROOM DIMMABLE WALL-MTD LINEAR DIREC THINDIRECT FIXTUR MOINTING HERVITT MP ROOM DIMMABLE LINEAR WILL MRETAIL LINEAR WALL-WASH IN DRYWALL CHILING |
| G H | PINNACLE PINNACLE PINNACLE | P-175HO-12-FL-VOLTAGE-1C-W-V 1 BA-175HO-12-W-A-VOLTAGE-1D-W PROVIDE 2-WIRE DMMING BALLAST EW-175HO-4-G'-G-VOLTAGE-1D-W-B PROVIDE 2-WIRE DMMING BALLAST | TBD TBD | 3.FZT85/835 PER 1Z LENGTH 3.F54T5HO/835 PER 1Z LENGTH 1.F54T5HO/835 | SURFACE WALL WALL SEMI- RECESSED | FRITURE LOCATION RETAIL WALL-INTO UPLIGHT REFER TO SECTION DWG FOR FOURTH LOCATION MP ROOM DIMMARIE WALL-INTO LINEAR DIRECTINIDIRECT FIXTUP REFER TO ELEVATION DWG FOR MOINTING HEIGHT MP ROOM DIMMABLE LINEAR WA RETAIL LINEAR WALL-WASHIN |
| G H | PINNACLE PINNACLE PINNACLE | P-175HO-1Z-FL-VOLTAGE-1C-W-V I BA-175HO-12-W-A-VOLTAGE-1D-W PROVIDE 2-WIRE DMMING BALLAST EW-115HO-4-G'G-VOLTAGE-1D-W-B PROVIDE 2-WIRE DMMING BALLAST EW-115HO-4-FL-VOLTAGE-1C-W-B | TBD TBD | 3.F2T85835 PER 1Z LENGTH 3.F54T5H0/835 PER 1Z LENGTH 1.F54T5H0/835 | CABINET SURFACE WALL WALL WALL SEMI- RECESSED SEMI- RECESSED SEMI- RECESSED RECESSED RECESSED | FRITIUR' LOCATION RETAIL WALL-MATD UPLIGHT REFER TO SECTION DWG FOR FOXTURE I COCATION MP ROOM DIMMABLE WALL-MATE LINEAR DIRECTINIORECT FIXTUR REFER TO ELEVATION DWG FOR MOLINTING HEIGHT MP ROOM DIMMABLE LINEAR WA RETAIL LINEAR WALL-WASHIN DRYWALL GRILING CORRIDOR LINEAR WALL-WASHIN |

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 29743 Expiration Date: 1-15-2015

PRELIMINARY NOT FOR CONSTRUCTION

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4.15.2013

15% PROGRESS SET

ELECTRICAL SCHEDULES

E-VCB

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