

LAWNS

SUMMARY

Provide a uniform stand of established perennial turf grasses, including watering, weed control and mowing, on lawns around the library building disturbed by the Work.

Provide erosion control and established perennial turf grasses on embankments associated with the driveway installation on 916 Saybrook Road.

No other landscaping is included in the Scope of Work.

MATERIALS

- Loam:
 - Loam shall be free of rocks greater than 3/4".
 - Loam from off-site shall be delivered in unfrozen condition.
 - Loam stockpiled on site may be used if it is screened and free of sub-soil contamination and deleterious materials.
- Fertilizer: Composite commercial fertilizer bearing the manufacturer's guarantee statement of analysis and meet the minimum requirements of 10% nitrogen, 10% phosphoric acid, and 10% potash with at least 50% of the nitrogen being organically carried.
- Hay mulch: Hay shall be from acceptable grass or legume mowings, free from weeds, reeds, twigs, debris or other objectionable material. It shall be free from rot or mold, and shall have a moisture content of not more than 15% when delivered to the Project. No salt hay shall be used.
- Hydroseed: May be used on embankments associated with driveway installation at 916 Saybrook Road. Hydroseed shall not be used elsewhere on the Library property.
- Seed: Lawn seed shall be fresh, clean and new crop seed composed of the following varieties, mixed in proportion, and passing tests for the minimum percentages of purity and germination indicated:

MIX

	Proportion by weight	Minimum purity %	Minimum germination %
Perennial Rye Grass	50 parts	98	90
Kentucky Blue Grass	20 parts	85	75
Fine Fescue	30 parts	98	85

EXECUTION

- Prior to spreading loam, the area shall be brought to a uniform grade 4 inches minimum below the finished surface or as indicated on the Drawings. The sub-grade shall be thoroughly pulverized to a depth of at least 3 inches by rototilling, harrowing or by other approved methods. Loam shall be applied in a 4" layer, unless otherwise directed. If required, or as directed by the Architect, the newly seeded or hydroseeded areas shall be watered by the Contractor until a uniform stand of grass has been established.
- Any sparse areas will be reseeded as required.
- Seeding: The grass seed shall be applied at a rate of 6 pounds per 1000 square feet. The seeded area shall be mulched with a layer of grass hay or straw at the rate of 10 pounds per 100 square feet, and in lieu of an approved mulch shall be watered each day until satisfactory growth has been established. After establishment of the turf in the Spring, wec control shall be applied per the manufacturer's recommendation. The Contractor is responsible for one mowing at the direction of the Architect.
- Hydroseeding: Mulch shall be applied at a rate of 25-40 pounds per 1000 square feet (40 lbs. per 1000 square feet for slopes greater than 2 to 1). After establishment of the turf in the Spring, weed control shall be applied per the manufacturer's recommendation. The Contractor is responsible for one mowing at the direction of the Architect.
- Warranty: The Contractor shall warrant the work for the one year period following the planting. Any bare areas within the warranty period shall be reestablished by the Contractor at the Contractor's expense.

End of Section

SIGNS

SUMMARY

Provide traffic control and identification signs where shown on the Drawings including all materials needed for a complete and proper installation.

SUBMITTALS

- Product data: Within 35 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:
 - Materials list of signs and accessories proposed to be provided under this Section
 - Sign types to be included:
 - Stop
 - Restricted parking space identification compliant with ADA standards and Connecticut statutes

EXECUTION

- Prior to the installation of signs, review proposed sign types and locations with the Architect.
- Install "Stop" sign on breakaway metal post.
- Install restricted parking space signs on metal posts embedded in sidewalk paving at the head of each accessible parking space.
- Install signs plumb, secure, positioned correctly, at heights and distances meeting accepted standards.

End of Section

MASONRY

SUMMARY

1. Provide brick and concrete masonry retaining walls and piers where shown on the Drawings and as specified herein.

2. Modify a portion of the existing library exterior wall (1996 addition) to prepare a masonry opening for a new entrance door located in the same general area as an existing exit door.

3. Provide cast stone components associated with 1 and 2 above.

4. Install specialty bricks provided by Brainerd Memorial Library where shown on the Drawings.

SUBMITTALS

- Product data: Within 35 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:
 - Materials list of items proposed to be provided under this Section;
 - Manufacturer's specifications and other data needed to prove compliance with the specified requirements.

MOCK-UPS

- At an area on the site where approved by the Architect, provide mock-up masonry panels of the retaining wall and accessible ramp piers:
 - Make mock-ups full size in the case of piers, and of a sufficient size to show all elements of the retaining wall base, face and cap.
 - The mock-up may be part of the work, and may be incorporated into the finished Work when so approved in advance by the Architect.
 - Revise as necessary to secure Architect's acceptance.
- If mock-ups are not permitted to be part of the finished Work, completely demolish and remove them from the job site upon completion and acceptance of the other work of this Section.

PRODUCTS

- Brick:
 - Brainerd Library has on site approximately 1500 surplus brick from prior Work. This brick is to be used on the modifications to the brick veneer at the door opening shown on the Drawings, and for the piers at the accessible ramp shown on the Drawings.
 - New brick shall be of the same size, type, and color as the surplus brick above, to the greatest extent possible.
 - Specialty brick (engraved and plain) shall be provided by Brainerd Library for installation by the mason.
- Concrete masonry units:
 - Normal weight, hollow and solid, load-bearing concrete masonry units complying with ASTM C90.
 - Dimensions:
 - Provide units of dimensions shown on the Drawings.
 - Where dimensions are not shown on the Drawings, provide units having nominal face dimensions of 16" long by 8" high by the depth shown or otherwise required.
- Reinforcement: Comply with the following minimums:
 - Bars: ASTM A615, grade 40, unless otherwise shown on the Drawings, using deformed bars for number 3 and larger.
 - Bending: ACI 318
 - Wire reinforcement: ASTM A82
- Cast stone elements:
 - Products by Coral Cast Architectural Stone (516) 349-1300, www.coralcast.com, types and sizes as shown on the Drawings, or similar products by another manufacturer subject to acceptance by the Architect.
- Mortar components:
 - Portland cement: Comply with ASTM C150, type I or II, low alkali. "Masonry" cement will not be acceptable.
 - Aggregate:
 - Sand for mortar: Comply with ASTM C144
 - Aggregate for grout: Comply with ASTM C404
 - Lime:
 - Quick lime: Comply with ASTM C5
 - Hydrated lime: Comply with ASTM C207, type "S"
 - Water: Potable, free from injurious amounts of acids, alkalis, oil and organic matter
- Concrete for footings:
 - Follow the requirements of the Section on Portland Cement Concrete Paving where applicable.
 - Minimum strength for footings: 2500 PSI

EXECUTION

- General:
 - Do not place masonry units when air temperature is below 40 degrees F.
 - Protect masonry construction from direct exposure to wind and sun when erected in ambient air temperature of 99 degrees F in the shade, with relative humidity less than 50%.
- Mixing:
 - Provide "fine grout" or "coarse grout" as designated on the Drawings or otherwise directed by the Architect, and in accordance with ASTM C476.
 - When the minimum grout compressive strength is required to be more than 2000 psi, provide laboratory design mix prepared as required for design mixes of concrete under Section 03300 of these Specifications.
 - Proportions:
 - For "fine grout," provide one part Portland cement to 2- 1/4 parts minimum to 3 parts maximum of damp loose sand, with sufficient water to achieve fluid consistency.
 - For "coarse grout," provide one part Portland cement to 3 parts maximum of damp loose sand to two parts coarse aggregate, with sufficient water to achieve fluid consistency. "Fluid consistency" is interpreted as meaning as fluid as possible for pouring intimately in place without segregation.
 - Use "fine grout" where called for on the Drawings, where the grout space is less than 3" in its least dimension, and where otherwise directed by the Architect or required by governmental agencies having jurisdiction.
- Installing Brick and Concrete masonry, general:
 - Set units plumb, true to line, and with level courses accurately spaced.
 - Clean the top surface of footing free from dirt, debris, and laitance, and expose the aggregate prior to start of installing first course.
 - Accurately fit the units to plumbing, ducts, openings, and other interfaces, neatly patching all holes.
 - Do not use chipped or broken brick or concrete masonry units.
- Laying up:
 - Unless otherwise shown on the Drawings, provide running bond with vertical joints located at center of brick or masonry units in the alternate course below.
 - Place units in mortar with full shoved bed and head joints.
 - Align vertical cells of hollow units to maintain a clear and unobstructed system of flues
 - Hold racking to an absolute minimum.
 - Install cast stone pieces where shown on the Drawings according to manufacturer's recommendations
 - Install special brick where shown on Drawings to be inlaid in walls and exposed aggregate concrete paving:
 - Blank bricks shall be set non-permanently
 - Engraved bricks shall be set permanently where practicable
- Reinforcement:
 - Provide reinforcement as shown on the Drawings or as required by Code, fully embedded in grout and not in mortar or mortar joints.
 - Provide required metal accessories to ensure adequate alignment of steel during grout filling operations.
- Grouting:
 - Perform grouting in strict accordance with the provisions of the governing building code.
 - Solidly fill vertical cells containing reinforcement.
 - Consolidate grout at time of pour by puddling with a mechanical vibrator, filling all cells of the masonry, and then reconsolidating later by puddling before the plasticity is lost.
- Inspection and adjustment:
 - Upon completion of the work of this Section, make a thorough inspection of installed masonry and verify that units have been installed in accordance with the provisions of this Section.
 - Make necessary adjustments.
- Final Cleaning:
 - Clean surfaces of masonry as required for proper application of the specified finishes.

End of Section

ELECTRICAL

SUMMARY

Install pole-mounted lighting in new parking lot and pedestrian plaza.

Remove existing electrical meter socket mounted on library wall and install a pedestal meter socket at the new utility pole with underground service to the library.

Remove any abandoned wiring, devices and equipment from the site.

Coordinate the electrical service change-over.

SUBMITTALS

- Product data: Within 35 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:
 - Materials list of items proposed to be provided under this Section;
 - Manufacturer's specifications and other data needed to prove compliance with the specified requirements.

PRODUCTS

- Luminaires and poles (to be supplied to the Contractor by Brainerd Library):
 - Luminaires: Progress Lighting PCPTT series, LED, as shown on the Drawings
 - Poles: As shown on the Drawings
- Pedestal meter:
 - Meet the requirements of Eversource
 - Milbank CP3B 400 amp series
- Other products including Schedule 40 PVC conduit and fittings, wiring, and other products or materials needed for a complete and proper installations required by the Work.

EXECUTION

- General:
 - Work shall comply with the requirements of Eversource and all applicable codes.
 - Potential disruptions of electrical service to the Library during normal operating hours must be coordinated with and approved by the Library director and/or the Architect.
- Electrical service relocation:
 - Existing 400 A, single phase service coming into the building underground remains.
 - Provide new conduit run to remote pedestal location by the new utility pole.
 - Remove any elements of underground service from the original utility pole that will be removed not removed by Eversource.
 - Specify and provide pedestal meter socket required; allow for future auxiliary power supply from a standby generator.
- Area lighting:
 - Install eight pole-mounted lights supplied by Brainerd Library;
 - Coordinate with the General Contractor the installation of concrete bases for these lights; positions of lights not specifically located on the Drawings shall be reviewed with the Architect;
 - Provide all conduit and wiring to these light fixtures;
 - All eight lights shall be timer-controlled from the Library.
- Step lights:
 - Coordinate with the Mason the installation of 4 step lights, one each in the accessible ramp piers in locations accepted by the Architect and as shown on the Drawings.
 - These lights shall be timer-controlled from the Library.

End of Section

General Notes

1. American Institute of Architects Document A201-2017, General Conditions of the Contract for Construction shall apply to this project.

2. Quality Assurance, general:

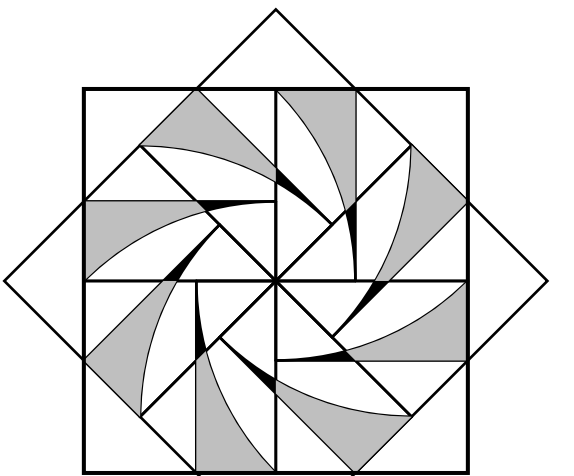
- Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the Work.
- Use equipment adequate in size, capacity, and numbers to accomplish the work in a timely manner.
- Comply with the requirements of the Connecticut State Building Code and with the requirements of governmental agencies having jurisdiction.

3. The Contractor shall examine the areas and conditions under which the Work will be performed, and shall correct conditions detrimental to timely and proper completion of the Work. Work shall not proceed until unsatisfactory conditions are corrected.

REVISIONS

Date Notes

Date	Notes



J. W.
HUBER
ARCHITECT

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**Brainerd Memorial Library
North Parking Lot, Pedestrian
Plaza & Associated Work**

920 Saybrook Road
Haddam, CT 06438

Notes and Specifications

Job No. 18-1113

Drawn by	Date May 16, 2019
Checked by	Scale 1" = 20'

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