INLAND WETLANDS
COMMISSION
Telephone (203) 563-0180
Fax (203) 563-0284

TOWN HALL
238 Danbury Road
Wilton, Connecticut 06897

APPLICATION FOR AN INTERMEDIATE REGULATED ACTIVITY

For Office Use Only:

WET#_____

Filing Fee $_____

Wilton Land Record Map# _____

Date of Submission _____

Volume # _____ Page # _____

Date of Acceptance_____

Assessor's Map # _____ Lot# _____

APPLICANT INFORMATION:

Applicant Town of Wilton

Address 238 Danbury Road
Wilton, CT 06897

Telephone 203-563-0180

Email mike.conklin@wiltonct.org

Agent (if applicable) William Kenny & Assoc.

Address 1899 Bronson Road
Fairfield, CT 06824

Telephone 203-366-0588

Email wkenny@wkassociates.net

PROJECT INFORMATION:

Property Address Map#72 Lot#14 Schencks

Site Acreage 2.068

Acres of altered Wetlands On-Site 0

Cu. Yds. of Material Excavated +-75

Linear Feet of Watercourse 0

Cu. Yds. of Material to be Deposited +-75

Linear Feet of Open Water 0

Acres of altered upland buffer _____

Sq. Ft. of proposed and/or altered impervious coverage N/A

Sq. Ft. of disturbed land in regulated area _____

APPLICATION REQUIREMENTS:

Is The Site Within a Public Water Supply Watershed Boundary? NO [✓] YES* [ ]

Is The Site Within 500 Feet of a Town Boundary? NO [✓] YES* [ ]

* If the answer is yes, then the applicant is responsible for notifying the appropriate water authority and/or adjoining community's Wetlands Department. Instructions for notification are available at the office of the commission.

Project Description and Purpose: Parking lot and electrical improvements at Schenck's Island

In addition, the applicant shall provide nine (9) collated copies of the following information as well as an electronic submission via email to mike.conklin@wiltonct.org & elizabeth.larkin@wiltonct.org **

- ☐ A. Written consent from the owner authorizing the agent to act on his/her behalf
- ☐ B. A Location Map at a scale of 1" = 800'
- ☐ C. ***A Site Plan showing existing and proposed features at a scale not to exceed 1" = 40'***
- ☐ D. Sketch Plans depicting the alternatives considered
- ☐ E. Names and addresses of adjoining property owners
- ☐ F. A narrative describing, in detail

  a. the proposed activity
  b. the alternatives considered
  c. impacts
  d. proposed mitigation measures

- ☐ G. Soils Report prepared by a Certified Soil Scientist and Wetlands Map prepared by a Registered Land Surveyor
- ☐ H. Description of the chemical and physical characteristics of fill material to be used in the Regulated Area
- ☐ I. Description and maps detailing the watershed of the Regulated Area
- ☐ J. One original application and eight (8) copies

****Application materials shall be collated and copies of documents more than two pages in length shall be double sided.**

See Section 7 of the Wetlands and Watercourses Regulations of the Town of Wilton for a more detailed description of applications requirements.

The Applicant or his/her agent certifies that he is familiar with the information provided in this application and is aware of the penalties for obtaining a permit through deception, inaccurate or misleading information.

By signing this application, permission is hereby given to necessary and proper inspections of the subject property by the Commissioners and designated agents of the Commission or consultants to the Commission, at reasonable times, both before and after a final decision has been rendered.

Applicant's Signature: Lynne A. VanDerslice Date: 4/12/22

Agent's Signature (if applicable): _____ Date: _____

DEPARTMENT OF
ENVIRONMENTAL AFFAIRS
Telephone (203) 563-0180
Fax (203) 563-0284

TOWN HALL
238 Danbury Road
Wilton, Connecticut 06897

April 11, 2022

Inland Wetland Commission
Town Hall Annex Building
238 Danbury Road
Wilton, CT 06897

RE: Wetland Permit Application for Intermediate Regulated Activity
Town of Wilton - Schenck's Island Parking Lot Project –

Dear Inland Wetland Commission,

The Town of Wilton is seeking a wetland permit for an intermediate regulated activity to re-configure the parking lot at Schenck's Island located in Wilton, Connecticut. The existing parking lot layout limits the number of vehicles that can utilize the space. The current lot is also prone to ponding water for periods of time after rain events and can ice over during the winter which creates a safety issue for park users. The re-configuration of the parking lot was developed as part of the master plan created by the Schenck's Island and Merwin Meadows Committee and adopted by the Board of Selectman.

The proposal includes removing the existing gravel and asphalt lot and constructing a larger parking lot that will accommodate 18 vehicles. The new gravel lot will have a one-way travel way to direct vehicles around the parking lot. The parking spaces will be located on the outside of the travel way. William Kenny Associates (WKA) was retained by the Town to develop the final parking lot layout and construction documents. WKA designed the parking lot to be compliant with Wilton's zoning regulations. See Site Development Plan (L-1) for more information.

During the initial site visit, Bill Kenny & Katie Hass of WKA identified several mature American elm trees that would be eliminated with the construction of the lot shown on the master plan. These landscape architects then developed the proposed plans with an eye on preserving the mature elm trees. Approximately eight (8) mature trees will need to be removed along the wooded area. Seven (7) sycamore trees and one (1) oak tree are proposed to be planted around the gravel lot to mitigate the loss of the trees. See Planting Plan (P-1) for more information.

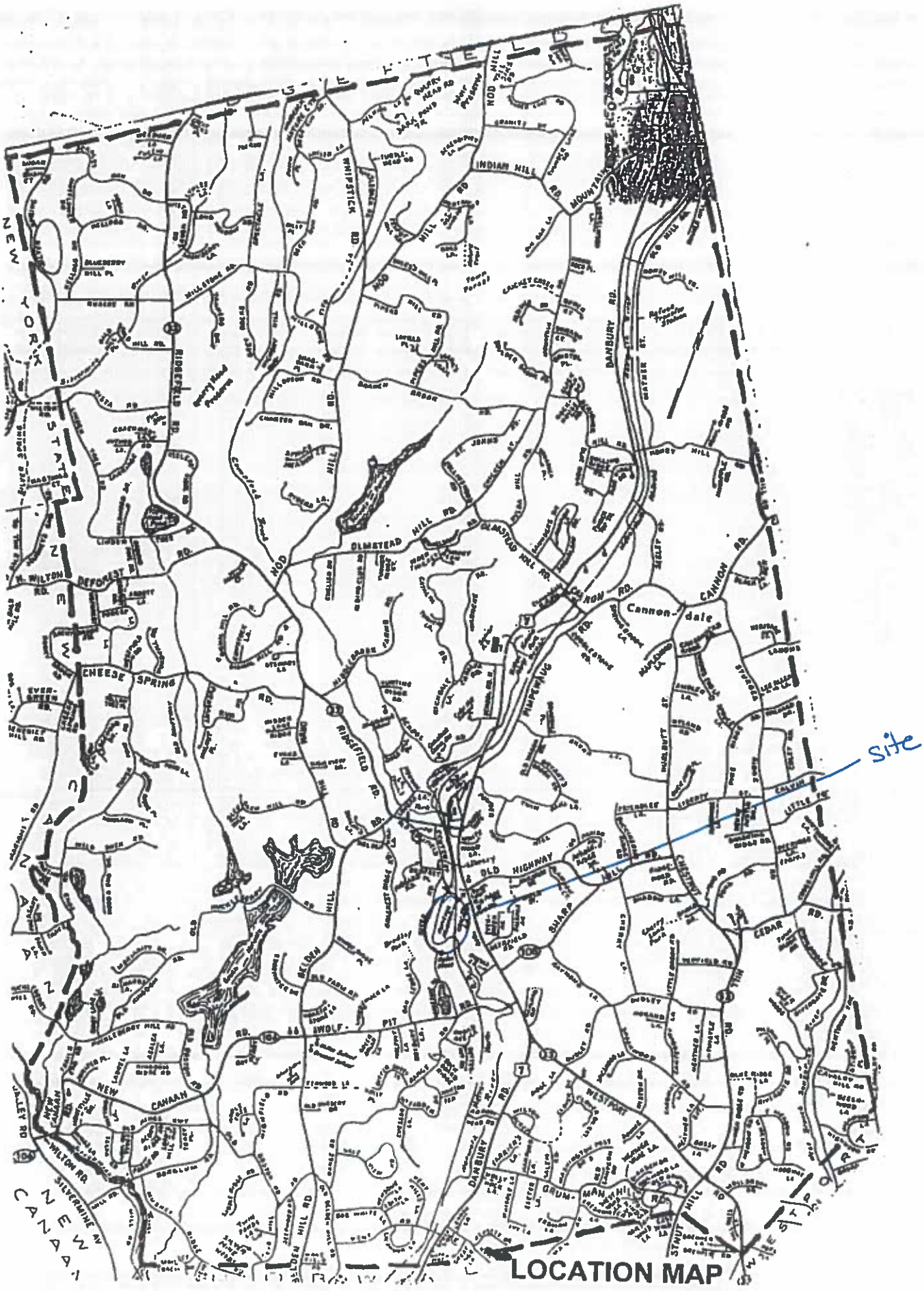
Since a portion of the lot is located in the flood plain of the Norwalk River, care will be taken to ensure that no additional fill material will be added to the site. Stormwater will be allowed to infiltrate into the soils directly under and around the new parking lot. Electrical service will be brought into the park during this project. This project will also include new aboveground electrical equipment, such as parking lot lighting and outlets along the parking area, and electrical service along the lawn edge near the stone wall and meadow area. This service will be installed for future temporary performances so they will no longer need to use gas generators for electricity at the site.

The potential for impacts to adjacent wetlands and the Norwalk River is very low. Silt fencing will be installed prior to the earth work to prevent short term impacts due to erosion. There are no long-term impacts expected from the proposed construction activities.

Thank you for your consideration of this application. I look forward to presenting the plans to you at the wetland commission meeting.

Sincerely,

Michael Conklin
Director of Environmental Affairs


site
LOCATION MAP

57-1
254 DANBURY ROAD EAT LLC
16 DEERFIELD ROAD
WILTON CT 06897

57-22
SAVOY PLAZA WILTON LLC
283 MAIN STREET
RIDGEFIELD CT 06877

71-23
CONNECTICUT STATE OF
2800 BERLIN TPKE
NEWINGTON CT 06131

72-3
BHT REALTY LLC
27 CRICKET LA
WILTON CT 06897

72-5
OSMAN WILTON, LLC (17.5% INTEREST) &
249 DANBURY RD
WILTON CT 06897

72-6
CORP OF THE PRESIDING BISHOP OF
50 E NORTH TEMPLE ST 2ND FL
SALT LAKE CITY UT 84150

72-7
BHT REALTY LLC
27 CRICKET LA
WILTON CT 06897

72-8
FIRST WHITE BIRCH REALTY LLC
26 CRICKET LA
WILTON CT 06897

72-12
WILTON TOWN OF
238 DANBURY RD
WILTON CT 06897

72-14
WILTON TOWN OF
238 DANBURY RD
WILTON CT 06897

73-2
TBS PARTNERS LLC
2 RUBY ST
NORWALK CT 06850

73-6
SADEGI SAM H
261 DANBURY RD
WILTON CT 06897

73-7
263 265 DANBURY RD LLC
263-265 DANBURY RD
WILTON CT 06897

73-20
WILSON PROPERTIES LLC
43 DANBURY RD
WILTON CT 06897

73-23-1
FAIRFIELD COUNTY BANK
150 DANBURY RD
RIDGEFIELD CT 06877

73-23-1
FAIRFIELD COUNTY BANK
150 DANBURY RD
RIDGEFIELD CT 06877

73-23-1
FAIRFIELD COUNTY BANK
150 DANBURY RD
RIDGEFIELD CT 06877

73-23-1
FAIRFIELD COUNTY BANK
150 DANBURY RD
RIDGEFIELD CT 06877

73-23-2
MCL 180 LLC
PO BOX 49
WILTON CT 06897

73-23-2
MCL 180 LLC
PO BOX 49
WILTON CT 06897

73-23-2
MCL 180 LLC
PO BOX 49
WILTON CT 06897

73-23-2
MCL 180 LLC
PO BOX 49
WILTON CT 06897

73-24
202 OLD RIDGEFIELD RD
2 RUBY ST
NORWALK CT 06850

73-25
WILTON RIVER PARK 1688 LLC
3333 NEW HYDE PARK RD STE 100
NEW HYDE PARK NY 11042

73-25-1
WILTON CAMPUS 1691 LLC
3333 NEW HYDE PARK RD STE 100
NEW HYDE PARK NY 11042

73-25-2
WILTON TOWN OF
238 DANBURY RD
WILTON CT 06897

73-25-3
AVALONBAY COMMUNITIES INC
PO BOX 4697
LOGAN UT 84323

73-26
SUN PLAZA CENTER LLC
185 BROAD ST
WETHERSFIELD CT 06109

73-8-1
CONNECTICUT STATE OF
2800 BERLIN TPKE
NEWINGTON CT 06131

73-23

73-25-4

WILTON CAMPUS 1691 LLC

3333 NEW HYDE PARK RD STE 100

NEW HYDE PARK NY 11042

72-5-1

CORP OF THE PRESIDING BISHOP OF

50 EAST NORTH TEMPLE ST 22FLR

SALT LAKE CITY UT 84150

www.vhb.com

May 30, 2018

Ref: 46273.00

Ms. Tracy Brown
Northeast Restoration Coordinator
Mianus Trout Unlimited
P.O. Box 475
Wilton, CT 06897

Re: Wetland Delineation Report
Schenck's Island Restoration Project – Old Ridgefield Road, Wilton, Connecticut

Dear Ms. Tracy Brown,

VHB completed an on-site investigation to determine the presence or absence of wetlands and/or watercourses on Schenck's Island located off Old Ridgefield Road in Wilton, Connecticut as requested and authorized. This investigation involved a wetland/watercourse delineation that was completed by a qualified staff soil scientist and conducted in accordance with the principles and practices noted in the United States Department of Agriculture (USDA) Soil Survey Manual (1993). The soil classification system of the National Cooperative Soil Survey was used in this investigation to identify the soil map units present on the project site.

INVESTIGATION

The project Site was investigated on May 1, 2018 with a temperature of 64^0 F under sunny and May 4, 2018 with a temperature of 72^0 F under partly cloudy conditions. Soil types are identified by observing soil morphology (soil texture, color, structure, etc.). Soil morphology is evaluated through numerous test pits and/or hand borings (generally to a depth of at least two feet). During the site investigation, if a wetland and/or watercourse was determined to be present, their boundaries would be identified with pink flagging hung from vegetation or small wire stakes if in fields or grass communities. These flags are generally spaced a maximum of approximately 50 feet apart. It is important to note that flagged wetland and watercourse boundaries are subject to change until verified by local, state, or federal regulatory agencies.

REGULATORY INFORMATION

Wetlands and watercourses are regulated by both state and federal law each with different definitions and regulatory requirements. Accordingly, the State may regulate waters that fall

100 Great Meadow Road
Wethersfield, Connecticut 06109
P 860.807.4300
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outside of federal jurisdiction; however, where federal jurisdiction exists concurrent State jurisdiction is almost always present.

State Regulation

Wetland determinations are based on the presence of poorly drained, very poorly drained, alluvial, or floodplain soils and submerged land. *Watercourses* are defined as "rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private, which are contained within, flow through or border upon the state or any portion thereof." *Intermittent watercourse* determinations are made based on the presence of a defined permanent channel and bank, and two of the following characteristics: (1) evidence of scour or deposits of recent alluvium or detritus, (2) the presence of standing or flowing water for a duration longer than a particular storm incident, and (3) the presence of hydrophytic vegetation. (See Inland Wetlands and Watercourses Act §22a-38 CGS.)

Federal Regulations

The U.S. Army Corps of Engineers regulates the discharge of dredged or fill material into waters of the United States under Section 404 of the Clean Water Act. Waters of the United States are navigable waters, tributaries to navigable waters, wetlands adjacent to those waters, and/or isolated wetlands that have a demonstrated interstate commerce connection. The ACOE Wetlands Delineation Manual defines wetlands as "[t]hose areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."

WETLAND AND WATERCOURSE SITE DESCRIPTION

Wetland classifications used to identify the type of wetland(s) occurring on the project site are based on guidance from the U.S. Fish and Wildlife Service (USFWS) (Cowardin et.al. 1979). These are further qualified with the Hydrogeomorphic Method of wetland classification (Brinson, 1993).

Wetland/Watercourse Description

One (1) on-site watercourse (Norwalk River) with associated wetland/floodplain communities as well as a small pocket wetland adjacent to the eastern property boundary with Metro-North Railroad were delineated during the May 1st and May 4th visits. The Norwalk River is classified under the United States Fish & Wildlife Service (USFWS) methods as a Riverine Unknown Perennial Unconsolidated Bottom Permanently Flooded (UFWS class: R5UBH). The River was delineated using sequentially numbered flags with open ends (See Figure 1 - Wetland Sketch

Map). It was delineated using sequentially numbered flags: WF 1-100 to WF 1-150, WF 10-400 to 405, WF 10-100 to 115, WF 200 to 201, WF 10-300 to WF 10-305, and WF 9-100 to WF 9-112 with various connections on the eastern side to the wetland flag series WF 7 and WF 8 where the ordinary high water met the edge of bordering wetlands. The watercourse enters the site from the north and flows in a southerly direction until in exits the site in the southeast corner.

The inland wetlands associated with the Norwalk River were delineated using flag series WF 7-100 to WF 7-150, WF 3-100 to WF 3-105, WF 4-100 to WF 4-105, WF 5-100 to WF 5-126, and WF 2-100 to WF 2-105. The majority of these associated inland wetland areas are considered state wetlands due to the presence of floodplain and alluvial soils but do not meet the classification of federal wetlands because of the lack of hydric soils and hydrology for example.

One vernal pool was noted within the WF 5 flag series due to the observations of amphibian breeding as well as other typical features such as hydrophytic vegetation and a defined bank, see Figure 1. Although we have reviewed other drawings indicating a second vernal pool to the north of the identified pool, at the time of our investigations during amphibian breeding season, the questionable vernal pool area was completely dry at the surface with no evidence of recent pooling of water that could support amphibian breeding. However, this questionable area was still within the state inland wetland boundary. This area of the wetlands is classified as depression forested wetland under the hydrogeomorphic (HGM) approach to classification of wetlands.

Within the WF 3 series is a project to reestablish natural vegetation and appears to be part of the Trout Unlimited Norwalk River restoration project. There are recently planted saplings and appears to be frequently mowed in-between the saplings. (See photograph attachment).

The ecological community within and immediately adjacent to the River banks includes a forested and scrub-shrub habitat on either side. Along the eastern side of the bank, it transitions from bank to floodplain alternately. The forested habitat is dominated by red maple (*Acer rubrum*), American sycamore (*Platanus occidentalis*), and American elm (*Ulmus americana*). The scrub-shrub habitat along the western banks was dominated by northern spicebush (*Lindera benzoin*), smooth arrowwood (*Viburnum recognitum*), and winged euonymus (*Euonymus alatus*). The western side of the bank was dominated mainly by winged euonymus and rambler rose (*Rosa multiflora*). The herbaceous layer was dominated by skunk cabbage (*Symplocarpus foetidus*), Eurasian buttercup (*Ficaria verna*), American trout lily (*Erythronium americanum*), and sensitive fern (*Onoclea sensibilis*).

Along the easternmost side of the property contained a wetland along the train ballast. The wetland was delineated with sequentially number flags WF 6-99 to WF 6-106. The ecological community within this wetland is a hardwood forested habitat dominated by red maple.

TABLE 1: Predominate Vegetation within and adjacent to the wetlands (Common (*Scientific*) names.)

TREES & SAPLINGS				
Scientific	**Common**	**Indicator**	**Upland**	**Wetland**
Acer Rubrum	Red Maple	FAC	X	X
Ulmus americana	American Elm	FACW		X
Platanus occidentalis	American Sycamore	FACW		X
Juniperus virginiana	Eastern Red-cedar	FACU	X	
Carpinus caroliniana	American Hornbeam	FAC	X	
SHRUBS				
Scientific	**Common**	**Indicator**	**Upland**	**Wetland**
Berberis thunbergii	Japanese Barberry*	FACU	X	X
Reynoutria japonica	Japanese Knotweed*	FACU	X	X
Rosa Multiflora	Multiflora Rose*	FACU	X	X
Lindera benzoin	Northern Spicebush	FACW		X
Viburnum recognitum	Northern Arrow-wood	FAC		X
Lonicera morrowii	Morrow's Honeysuckle*	FACU	X	
Euonymus alatus	Winged Euonymus*	-	X	X
HERBS & VINES				
Scientific	**Common**	**Indicator**	**Upland**	**Wetland**
Impatiens capensis	Jewelweed	FACW	X	X
Symplocarpus foetidus	Skunk Cabbage	OBL		X
Erythronium americanum	American trout-lily	-	X	X
Toxicodendron radicans	Eastern Poison Ivy	FAC	X	X
Persicaria virginiana	Virginia Knotweed	FAC	X	
Ficaria verna	Eurasian-buttercup	FACW		X
Onoclea sensibilis	Sensitive fern	FACW		X
Osmundastrum cinnamomeum	Cinnamon fern	FACW		X
Veratrum viride	False Hellebore	FACW		X

***Denotes State non-native invasive species**

SOIL MAP TYPES

A brief description of each soil map unit identified on the project site is presented below including information from the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil descriptions. Further information on these and other soils, please refer to the internet site at http://soils.usda.gov/technical/classification/osd/index.html).

Upland Soils

Ninigret & Tisbury (21A)

Ninigret soils

The Ninigret series consists of very deep, moderately well drained soils formed in loamy over sandy and gravelly glacial outwash. They are nearly level to strongly sloping soils on glaciofluvial landforms, typically in slight depressions and broad drainage ways. Slope ranges from 0 to 5 percent. Diagnostic horizons in this pedon include an ochric epipedon (0 to 8 inches (Ap horizon)), a cambic horizon (8 to 26 inches (Bw horizon)) and aquic features (low chroma depletions within a 24-inch depth (Bw2 horizon)).

Tisbury soils

The Tisbury series consists of very deep, moderately well drained loamy soils formed in silty eolian deposits overlying outwash materials derived from a variety of acid rocks. They are nearly level and gently sloping soils on outwash plains and terraces, typically in slight depressions and broad drainageways. Slope ranges from 0 to 5 percent. Diagnostic horizons in this pedon include an ochric epipedon (0 to 8 inches (Ap)), and a cambic horizon (8 to 26 inches).

Haven and Enfield soils (32B) silt loam

Enfield soils

The Enfield series consists of very deep, well-drained loamy soils formed in a silty mantle overlying glacial outwash. Enfield soils are nearly level to sloping soils on terraces and outwash plains. Slopes range from 0 to 15 percent, but are generally less than 8 percent. The soils formed in a silty mantle over stratified sandy and gravelly fluvial materials derived from a variety of acidic rocks. The soils diagnostic horizons include an ochric epipedon – (0 to 7 inches (Ap horizons)) and a cambic horizon (from 7 to 25 inches (the Bw horizon)).

Haven soils
The Haven series consists of very deep, well-drained soils formed in loamy over sandy and gravelly outwash. They are nearly level to moderately sloping soils on outwash plains, valley trains, terraces, and water-sorted moraine deposits. The soils diagnostic horizons include an ochric epipedon – (0 to 6 inches (O and A horizons)) and a cambic horizon (from 6 to 22 inches (the Bw horizon)).

Ur—Urban land (306)

This unit consists of areas where urban structures cover more than 85 percent of the surface. Examples of such structures are roads, parking lots, shopping and business centers, and industrial parks. Most areas are in the towns of Bridgeport, Danbury, Fairfield, Norwalk, Shelton, Stamford, and Stratford. The areas are commonly rectangular and range from 5 to 500 acres. Slopes range from 0 to 8 percent but are dominantly less than 5 percent. Included with this unit in mapping are small areas of Udorthents and areas of excessively drained Hinckley soils; somewhat excessively drained Hollis soils; well drained Agawam, Charlton, and Paxton soils; and moderately well drained Ninigret and Sutton soils. Included areas make up about 15 percent of this map unit. This unit requires onsite investigation and evaluation for most uses.

Wetland Soils

Ridgebury, Leicester and Whitman Complex (3), extremely stony

Ridgebury Soils
The Ridgebury complex is a very deep poorly drained soil that includes poorly drained Leicester, and very poorly drained Whitman soils formed in till derived mainly from granite, gneiss and schist. Ridgebury soils on the landscape are in slightly concave areas and shallow drainageways of till uplands with slopes that range nearly level to gently sloping. Depth to the perched seasonal high-water table from November to May, or longer, is perched above the densic materials. The soils diagnostic horizons include an ochric epipedon (0 to 5 inches (A horizon)), aeric feature 100 percent of the zone from 5 to 9 inches (Bw1 horizon), and a cambic horizon (5 to 18 inches (Bw and Bg horizons)). Densic contact root limiting material begins at 18 inches (Cd). Endosaturation occurs within the zone from 9 to 18 inches and is saturated above the densic contact (Bw2 horizon).

Leicester Soils
The Leicester series consists of very deep, poorly drained loamy soils formed in friable till. They are nearly level or gently sloping soils in drainage ways and low-lying positions on hills. Slope ranges nearly level to gently sloping. Permeability is moderate or moderately rapid in

the surface layer and subsoil and moderate to rapid in the substratum. The horizons and features recognized in this pedon are an ochric epipedon in the zone from 1 to 7 inches (A horizon) and a cambic horizon in the zone from 7 to 23 inches (Bg and BC horizons). There is also an aquic moisture regime as indicated by chroma of 2 in Bg horizon but with chroma too high within 30 inches (chroma 3 in BC horizon) to qualify for Typic Endoaquepts. This series also contains an endoadquepts subgroup based on saturation to a depth of 200 cm from the mineral soil surface. There is an aeric great group based on matrix color and a chroma of 3 or more in one subhorizon between the Ap and 75 cm. (BC horizon) and the particle-size class in control section ranges from 10 to 40 inches and is considered coarse loamy type of soil.

Whitman Soils

The Whitman series consists of very deep, very poorly drained soils formed in glacial till derived mainly from granite, gneiss, and schist. They are shallow to a densic contact. These soils are nearly level or gently sloping soils in depressions and drainageways on uplands. Permeability is moderate or moderately rapid in the solum and slow or very slow in the substratum. The diagnostic horizons and features in this pedon include an umbric epipedon in the zone from the soil surface to a depth of 10 inches (Ap horizon) and a cambic horizon in the zone from 10 to 18 inches (Bg horizon). This soil also has aquic conditions as evidenced by a chroma of 1 in the Bg horizon. A densic contact is also present with the root limiting layer beginning at 18 inches. Whitman soils are considered to have a shallow depth class because the depth to the densic contact is less than 20 inches (Cd1 is at 18 inches).

Pootatuck, fine sandy loam (102)

The Pootatuck series consists of very deep, moderately well drained loamy soils formed in alluvial sediments. They are nearly level soils on floodplains subject to frequent to occasional flooding. Slope ranges from 0 to 3 percent. Saturated hydraulic conductivity is moderately high or high in the loamy upper layers and high or very high in the sandy substratum.

REFERENCES

1. Brinson, M.M. 1993. *A Hydrogeomorphic Classification for Wetlands.* Tech. Rpt.WRP-DE-4, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

2. Cowardin, L.M., V. Carter, F.C. Golet and E.T. LaRoe, 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service. Washington, D.C. FWS/OBS-79/31.

3. United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil descriptions. Internet site: http://soils.usda.gov/technical/classification/osd/index.html).

CLOSING

Thank for the opportunity to work with you on this project. Please contact me at 860-807-4388 if you have any questions or require additional assistance.

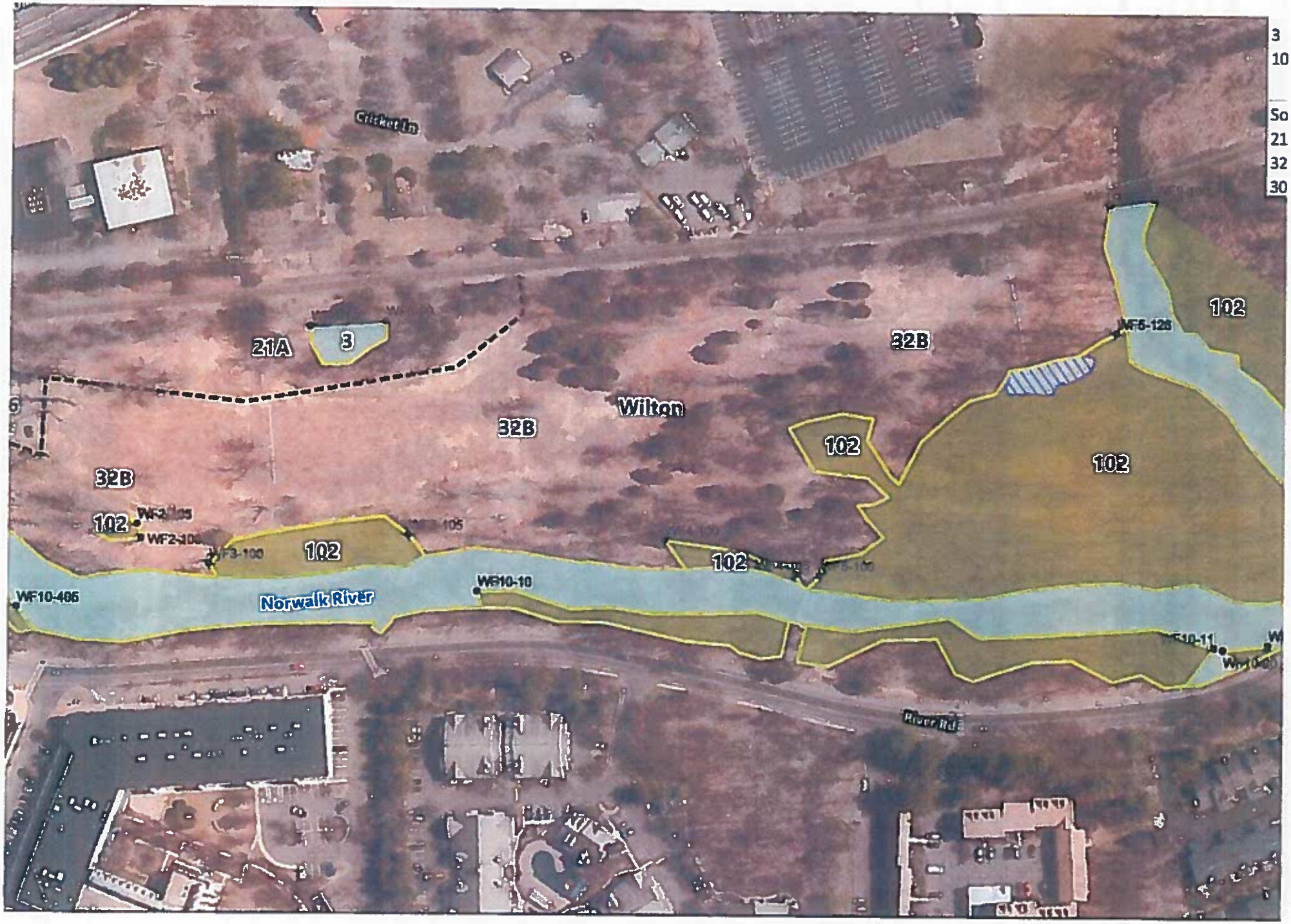
Sincerely,
Vanasse Hangen Brustlin, Inc.

Jeffrey R Shamas, CSS, PWS, CE
Director of Environmental Services

jshamas@vhb.com

Appendices
1. Wetland Sketch Map
2. Site Photographs
3. NRCS Soils Survey

Appendix 1: Wetland Sketch Map



10 Feet

Wetland Flag

Schenck's Island Restoration Project | Wilt

Appendix 2: Site Photographs

Photo 1: View northwest, WF6 series, pool on western side of site adjacent to railroad tracks.

Photo 2: Vernal pool located within the WF5 series.

Photo 3: View east, bank of the Norwalk river and River Road.

Photo 4: View northeast, WF3 series, view of natural vegetation reestablishment project within the wetland.

Photo 5: View northwest, view of the vegetation within WF5 series.

Photo 6: View southwest, overall view of WF4 series along the eastern bank of the Norwalk river.

Photo 7: View northeast, overall view of WF2 series.

Photo 8: View northeast, bank of Norwalk River, adjacent wetland, and the Old Ridgefield Road bridge crossing.

Photo 9: View northwest, view of River Road and the stormwater culvert leading to the Norwalk River.

Photo 10: View south, overview of the Norwalk River.

Photo 11: View north, overview of the Norwalk River.

Photo 12: View southwest, fly fishermen in the Norwalk River.

Appendix 3: NRCS Soils Survey

Soil Map—State of Connecticut
(Schenck's Island- Norwalk River, Wilton)

Map Scale: 1:3,980 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut
Survey Area Data: Version 16, Sep 15, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Oct 5, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

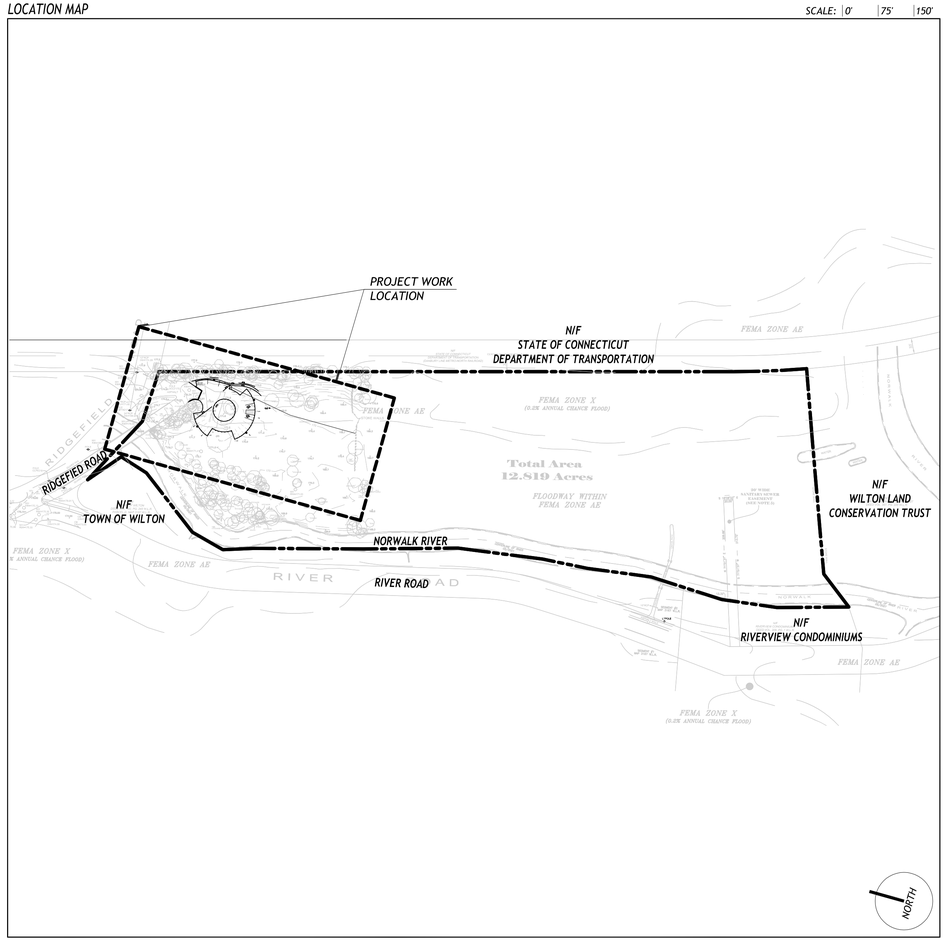
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
21A	Ninigret and Tisbury soils, 0 to 5 percent slopes	2.9	8.1%
32B	Haven and Enfield soils, 3 to 8 percent slopes	9.1	25.6%
102	Pootatuck fine sandy loam	15.9	44.6%
232B	Haven-Urban land complex, 0 to 8 percent slopes	1.9	5.4%
306	Udorthents-Urban land complex	1.8	4.9%
307	Urban land	1.4	3.9%
W	Water	2.7	7.6%
Totals for Area of Interest		35.7	100.0%

WATERSHED MAP
SCHENCKS ISLAND

CONSTRUCTION DOCUMENTS
FOR
PHASE 1 IMPROVEMENTS: PARK ENTRY & PARKING
THE TOWN OF WILTON - SCHENCK'S ISLAND PRESERVE
238 DANBURY ROAD, WILTON, CT

LOCATION MAP

SCALE: 0' 75' 150'



LIST OF DRAWINGS

WILLIAM KENNY ASSOCIATES
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1899 Bronson Road Fairfield CT 06824
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SG ENGINEERING LLC

TOWN OF WILTON CONNECTICUT CHARTER 1802 SEAL

REF. NO. 4783

INSTRUCTIONS TO CONTRACTORS

1. PROJECT SCOPE:
   This proposal is for landscape development work for and at the property of:

   Schenck's Island Park
   238 Danbury Road
   Wilton, Connecticut

2. OWNER:
   The owner referred to in these specifications is Town of Wilton

3. LANDSCAPE ARCHITECT:
   William Kenny Associates LLC is the Landscape Architect referred to in these specifications.

4. SITE EXAMINATION:
   The contractor, before submitting a bid on the work, is assumed to have visited the site for the purpose of observing first hand, any conditions relevant to the completion of the work. No considerations will be given on any claim based on lack of knowledge of existing conditions. The Landscape Architect will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences, procedures, or for safety precautions and programs in connection with the work. The Landscape Architect will not be responsible for the Contractor's failure to carry out the work in accordance with the Contract Documents. The Landscape Architect will not be responsible for or have control or charge over the acts or omissions of the Contractor, Subcontractors, or any of their agents or employees, or any other persons performing any of the work.

5. DISCREPANCIES:
   All discrepancies shall be brought to the attention of the Landscape Architect during the bidding period.

GENERAL NOTES TO CONTRACTORS

1. CONTRACT DOCUMENTS:
   The contract documents consist of the Agreement, the Drawings, the Specifications, and all Addenda issued prior to the execution of the Contract, and all modification thereto.

2. DETAIL DRAWINGS AND SPECIFICATIONS CONFLICTS:
   Contractors are to notify Landscape Architect should a conflict occur in or between drawings, specifications, field conditions and construction layout.

3. GRADES, LINES, LEVELS, AND SURVEYS:
   Each contractor shall engage a licensed surveyor to establish the lot lines and restrictions as necessary to accomplish their work. The finished elevations shall correspond to those indicated on the drawings.

4. PROTECTION:
   Each contractor shall at all times, provide protection for his scope of work against rain, wind, storms, frost, or heat so as to maintain all work, materials, apparatus and fixtures free from injury or damage. At the end of a day's work, all new work likely to be damaged, shall be covered and protected. Any work damaged by failure to provide protection as required above, shall be removed and replaced with new work at the contractor's expense.

5. MANUFACTURER'S DIRECTIONS:
   All manufactured articles, materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the manufacturer unless herein specified to the contrary.

6. WORKMANSHIP:
   Compliance with the drawings and specifications with regard to materials and methods of assembly will not in itself assure acceptance of the construction. Of equal importance is good workmanship, the lack of which will be sufficient cause to refuse acceptance of the construction. The Contractor shall at all times enforce discipline and good order among his employees and shall not employ on the work any unfit person or anyone not skilled in the task assigned to him.

7. SCOPE OF WORK:
   Contractor shall furnish and install all material and equipment shown, listed or described on the drawings or in these specifications, subject to qualifications, conditions or exceptions as noted. Contractors also, shall furnish all labor, scaffolding, and tools necessary to complete the work. Work shall be continuous and (weather permitting) the Contractor shall have job fully staffed at all times.

8. MEASUREMENTS AND DIMENSIONS:
   Prior to ordering any construction materials, Contractor shall verify all dimensions by taking measurements at the building site and shall be responsible for their correctness. Any discrepancies between drawings and/or specifications and existing conditions shall be referred to the Landscape Architect for adjustment before any work affected thereby is begun.

9. LAYING OUT WORK:
   All work of every character and description shall be laid out on premises by Contractor, (for his scope of work), who will be held responsible for any errors and for it's correctness. Layout shall then be observed by L.A. prior to commencement of construction.

10. FOREMAN:
    Contractor shall have at the building site, from start to finish of construction, a responsible foreman. In addition, contractor shall give his personal supervision to the work. Foreman shall be on duty during all working hours. Any instruction or notices given to him shall have same importance as if given to the contractor in person.

11. TEMPORARY PROVISIONS:
    The Contractor shall provide the following temporary provisions as required:
    a. Temporary power and light (the contractor shall supply and maintain his own wiring, lamps and connections required for job completion.)
    b. Temporary water supply (the contractor shall supply all lines, valves, hoses and similar equipment needed for job completion.)
    c. All other provisions shall be the responsibility of the contractor.

12. SPECIAL CONDITIONS:
    a. Any shop drawings required shall be submitted to the Landscape Architect with an original.
    b. Samples shall be submitted in sufficient size to represent the product properly.
    c. All contractors involved in excavation, demolition, drilling, blasting, and/or other work involving disturbance of existing grade shall first contact CT Underground Utilities Call Center at 1-800-922-4455 prior to undertaking such work. The responsibility for making this call rests entirely with the contractor or sub-contractor involved in such work.

13. PERMITS:
    Each contractor shall secure all permits as may be required before commencing his scope of work, post all bonds and pay all fees necessary to complete the work.

14. CODES:
    All work shall be performed in accordance with the building code requirements of the Town of Wilton.

PLANTING, LAWN & MEADOW ESTABLISHMENT SPECIFICATIONS

A. PLANT MATERIAL

1. FURNISH AND INSTALL ALL PLANTS SHOWN ON THE DRAWINGS, AS SPECIFIED, AND IN QUANTITIES AS LISTED ON THE PLANT LISTS. QUANTITIES SHOWN ON DRAWINGS TAKE PRECEDENCE OVER THE PLANT LIST.
2. PROPOSED TREE LOCATIONS TO BE ADJUSTED IN FIELD AS NEEDED BASED ON FIELD CONDITIONS.
3. BOTANICAL NAMES SHALL PREVAIL OVER COMMON NAMES.
4. ALL PLANT MATERIAL SHALL BE NURSERY GROWN; NO COLLECTED MATERIALS SHALL BE ACCEPTED, UNLESS SPECIFICALLY INDICATED.
5. PLANTS SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS IN ALL WAYS INCLUDING DIMENSIONS.
6. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH. THEY SHALL BE SOUND HEALTHY AND VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE. THEY SHALL HAVE HEALTHY, WELL DEVELOPED ROOT SYSTEM.
7. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT ANY PLANT MATERIALS UPON DELIVERY TO THE PROJECT. SELECTION BY THE LANDSCAPE ARCHITECT DOES NOT WAIVE THE RIGHT OF REJECTION.
8. SUBSTITUTION WILL BE PERMITTED ONLY UPON APPROVAL OF THE LANDSCAPE ARCHITECT.
9. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST OR AS NECESSARY TO MATCH SURVIVING PLANTS OF THE SAME PLANTING GROUP. ALL COSTS SHALL BE BORN BY THE LANDSCAPE CONTRACTOR EXCEPT FOR REPLACEMENTS RESULTING FROM LOSS OR DAMAGE DUE TO VANDALISM OR ACTS OF NEGLECT ON THE PART OF OTHERS, PHYSICAL DAMAGE, BY ANIMALS, VEHICLES, FIRE, ETC., AS MAY BE DETERMINED BY THE LANDSCAPE ARCHITECT.
10. ALL PLANT MATERIAL SHOULD BE PLACED, OR LOCATION STAKED, ON THE SITE AS SHOWN ON THE PLANTING PLAN PRIOR TO COMMENCEMENT OF PLANT EXCAVATION FOR THE LANDSCAPE ARCHITECT'S APPROVAL. THE CONTRACTOR MUST NOTIFY THE LANDSCAPE ARCHITECT OF ALL PLANTING OPERATIONS A MINIMUM OF 48 HOURS IN ADVANCE.
11. NEWLY PLANTED TREES SHALL BE PRUNED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NUSERYMEN. ALL TREES SHALL BE GUYED, STAKED AND WRAPPED AS DETAILED.
12. ALL PLANT MATERIALS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN OR AS OTHERWISE SPECIFIED. NO CONSTRUCTED BALLS SHALL BE ACCEPTED. REMOVE SYNTHETIC 'BURLAP' AND SYNTHETIC TWINES AND ROPES. REMOVE TOP 1/3 OF METAL BASKETS FROM ROOT BALLS WHEN THE ROOT BALL HAS BEEN POSITIONED IN THE PLANTING PIT. PROVIDE SUPPORT AS NECESSARY TO PROTECT THE ROOT BALL FROM INJURY DURING THIS OPERATION.
13. MULCH ALL TREE BEDS WITH MINIMUM OF 2" SHREDDED BARK MULCH.
14. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF ACCEPTANCE.

B. LAWNS & MEADOWS

1. FINE GRADE AND SEED ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS AND NOT COVERED BY BUILDINGS, STRUCTURES, PAVING OR EXISTING PLANTINGS. STATE TOTAL AREA ESTIMATED AND PRICE PER S.F. IN PROPOSAL.
2. PROVIDE AND INSTALL CLEAN FILL AND TOPSOIL AS REQUIRED TO ACHIEVE A MINIMUM DEPTH OF 6 INCHES FREE OF STONES LARGER THAN 2 INCHES, STICKS, RUBBISH AND OTHER EXTRANEOUS MATTER. IF CLEAN FILL AND TOPSOIL IS BROUGHT IN FROM OFFSITE PROVIDE SOIL REPORT FOR L.A. AND OR OWNER APPROVAL.
3. SPREAD AND INCORPORATE GROUND LIMESTONE INTO THE TOP 3" OF TOPSOIL ON LAWN AREAS AT THE APPROXIMATE RATE OF TWO TONS PER ACRE AT LEAST FIVE DAYS BEFORE APPLYING COMMERCIAL FERTILIZER. SPREAD AND INCORPORATE COMMERCIAL FERTILIZER INTO THE TOP 3" OF TOPSOIL ON SEEDED AREAS AT THE RATE OF 1000 POUND PER ACRE (25 POUNDS PER 1000 S.F.). RAKE TOPSOIL TO A SMOOTH, EVEN DRAINING SURFACE.
4. GRASS SEED SHALL BE SAWN BY HAND OR BY APPROVED MACHINE IN SUCH MANNER THAT A UNIFORM STAND WILL RESULT. AFTER SEEDING, THE SURFACE SHALL BE EVENLY RAKED WITH A FINE-TOOTHED RAKE.
5. SEED FOR THE LAWN AREAS SHALL BE PER THE PROPOSED PLANT LIST.
6. SEED FOR MEADOW AREAS SHALL BE PER THE PROPOSED PLANT LIST.
7. SEEDS SHALL BE SOWN ONLY BETWEEN APRIL AND JUNE 1, AND BETWEEN AUGUST 15 AND OCTOBER 31, AND ONLY DURING APPROVED PERIODS WHEN WEATHER CONDITIONS ARE SUITABLE AS DETERMINED BY THE LANDSCAPE ARCHITECT.
8. FOR LAWN AREAS, APPLY A LAYER OF LOOSELY APPLIED SEEDLESS HAY TO ALL SEEDED AREAS.
9. TILL COMPACTED AREAS AS REQUIRED TO PROVIDE A SUITABLE SOIL CONDITIONS FOR THE ESTABLISHMENT AND MAINTENANCE OF SATISFACTORY LAWN AND MEADOW AREAS.
10. RE-SEED LAWN & MEADOW AREAS THAT DO NOT SHOW A SATISFACTORY STAND OF VEGETATION AFTER 30 DAYS AND CONTINUE TO DO SO UNTIL A SATISFACTORY STAND OF VEGETATION HAS BEEN ESTABLISHED AND APPROVED BY THE LANDSCAPE ARCHITECT.

PLANTING, LAWN & MEADOW MAINTENANCE SPECIFICATIONS

PLANTING MAINTENANCE

A. MAINTAIN PLANTINGS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, MULCHING, RESTORING PLANTING SAUCERS, RESETTING TO PROPER GRADES OR VERTICAL POSITION, AND PERFORMING OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. SPRAY OR TREAT AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.

B. FILL IN AS NECESSARY SOIL SUBSIDENCE THAT MAY OCCUR BECAUSE OF SETTLING OR OTHER PROCESSES. REPLACE MULCH MATERIALS DAMAGED OR LOST IN AREAS OF SUBSIDENCE.

C. APPLY TREATMENTS AS REQUIRED TO KEEP PLANT MATERIALS, PLANTED AREAS, AND SOILS FREE OF PESTS AND PATHOGENS OR DISEASE. USE PRACTICES TO MINIMIZE THE USE OF PESTICIDES AND REDUCE HAZARDS.

D. APPLY PESTICIDES AND OTHER CHEMICAL PRODUCTS AND BIOLOGICAL CONTROL AGENTS IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION AND MANUFACTURER'S WRITTEN RECOMMENDATIONS. COORDINATE APPLICATIONS WITH OWNER'S OPERATIONS AND OTHERS IN PROXIMITY TO THE WORK. NOTIFY OWNER BEFORE EACH APPLICATION IS PERFORMED.

E. PROTECT PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS AND OPERATIONS OF OTHER CONTRACTORS AND TRADES. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, OR REPLACE DAMAGED PLANTINGS.

LAWN & MEADOW MAINTENANCE

A. MAINTAIN ESTABLISHED LAWNS & MEADOWS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, REPLANTING AND PERFORMING OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE VEGETATION. FOR LAWNS, ROLL, REGARDE, AND REPLANT BARE OR ERODED AREAS AND RE-MULCH TO PRODUCE A UNIFORMLY SMOOTH SURFACE.

B. MOW LAWNS AS SOON AS TOP GROWTH OF GRASS IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN HEIGHT APPROPRIATE FOR SPECIES WITHOUT CUTTING MORE THAN 1/3 OF GRASS HEIGHT. REMOVE NO MORE THAN 1/3 OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWING.

C. APPLY PESTICIDES AND OTHER CHEMICAL PRODUCTS AND BIOLOGICAL CONTROL AGENTS IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION AND MANUFACTURER'S WRITTEN RECOMMENDATIONS. COORDINATE APPLICATIONS WITH OWNER'S OPERATIONS AND OTHERS IN PROXIMITY TO THE WORK. NOTIFY OWNER BEFORE EACH APPLICATION IS PERFORMED.

MASONRY SPECIFICATIONS

1. PERFORM ALL WORK INDICATED IN THE DRAWINGS AND AS LISTED BELOW.
2. PROVIDE AND INSTALL GRAVEL PAVEMENT AS SHOWN ON THE DRAWING AND DETAILED. PROVIDE 4' X 4' MOCKUP FOR L.A & OWNER APPROVAL.
3. PROVIDE AND INSTALL GEOGRID PAVEMENT FOR HANDICAPPED PARKING SPACES AS SHOWN ON THE DRAWING & DETAILED. GEOGRID TO BE "TRUEGRID PAVERS PROPLUS" WITH "SNOW SPOTS" AS MANUFACTURED BY TRUEGRID PAVERS (855-355-4743) OR APPROVED EQUAL. PROVIDE SHOP DRAWING FOR L.A & OR OWNER APPROVAL.
4. PROVIDE AND INSTALL 6-INCH GRANITE CURB AS SHOWN ON THE DRAWING AND DETAILED. PROVIDE 4-FOOT MOCKUP FOR L.A AND OWNER APPROVAL.

ELECTRICAL SPECIFICATIONS

1. PERFORM & PROVIDE ALL WORK INDICATED IN THE DRAWINGS AND DETAILS.

FENCING SPECIFICATIONS

1. PERFORM ALL WORK INDICATED IN THE DRAWINGS AND AS LISTED BELOW.
2. PROVIDE AND INSTALL WOODEN BOLLARDS AS DESIGNED AND DETAILED. PROVIDE SAMPLE & MOCKUP FOR L.A & OWNER APPROVAL.

GENERAL SPECIFICATIONS

1. PERFORM ALL WORK INDICATED IN THE DRAWINGS AND AS LISTED BELOW.
2. PROVIDE AND PREP SITE FOR NEW CONSTRUCTION AS SHOWN ON THE DRAWINGS AND DETAILED.
3. RELOCATE AND INSTALL EXISTING SIGNS AS SHOWN ON THE DRAWINGS AND DETAILED.
4. PROVIDE LIGHT FIXTURES AND POSTS AS SHOWN ON THE DRAWING AND DETAILED. COORDINATE WITH E.C.
5. PROVIDE AND INSTALL DRAINAGE CATCH BASINS AND PIPING AS SHOWN ON THE DRAWINGS AND DETAILED.

LEGEND

x245	EXISTING SPOT GRADE
+ 170.65	PROPOSED SPOT GRADE
175	EXISTING CONTOUR
172	PROPOSED CONTOUR
	PROPERTY BOUNDARY
	FEMA BOUNADARY
	LIMIT OF PHASE ONE CONSTRUCTION
8"ELM	EXISTING TREE
+	PROPOSED TREE
	PROPOSED MEADOW
	PROPOSED SIGN
	PROPOSED LIGHT FIXTURE
	PROPOSED BOLLARD

ABBREVIATIONS

ADA	AMERICAN WITH DISABILITIES ACT
ASNS	AMERICAN STANDARD FOR NURSERY STOCK
B&B	BALLED & BURLAPPED
TC	TOP OF CURB
BC	BOTTOM OF CURB
CB	CATCH BASIN
CONC.	CONCRETE
CAL.	CALIPER (VARIES - AT HEIGHT PER ASNS)
CONT.	CONTAINER
DIA.	DIAMETER
EL.	ELEVATION
EQ.	EQUAL
FLUSH	FLUSH CONDITION
HT.	HEIGHT
MAX.	MAXIMUM
MIN.	MINIMUM
O.C.	ON CENTER
CP	CENTER POINT
P.O.B.	POINT OF BEGINNING
PT.	PINT CONTAINER
QTY.	QUANTITY
R	RADIUS
SPD.	SPREAD
(TYP.)	TYPICAL CONDITION
TW	TOP OF WALL

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PROJECT:
SCHENK'S ISLAND PRESERVE
PHASE 1 IMPROVEMENTS:
PARK ENTRY & PARKING

OWNER / CLIENT:
TOWN OF WILTON CHARTER 1802 SEAL CONNECTICUT
ENVIRONMENTAL AFFAIRS

ELECTRICAL ENGINEER:
SG ENGINEERING LLC

PROGRESS ISSUE:
1 CONSTRUCTION DOCUMENTS 03/28/2022

KEYPLAN:

SEAL:

SHEET TITLE:
INSTRUCTIONS AND SPECIFICATIONS

SHEET NUMBER:
T-1

REF. NO. 4783

PLAN

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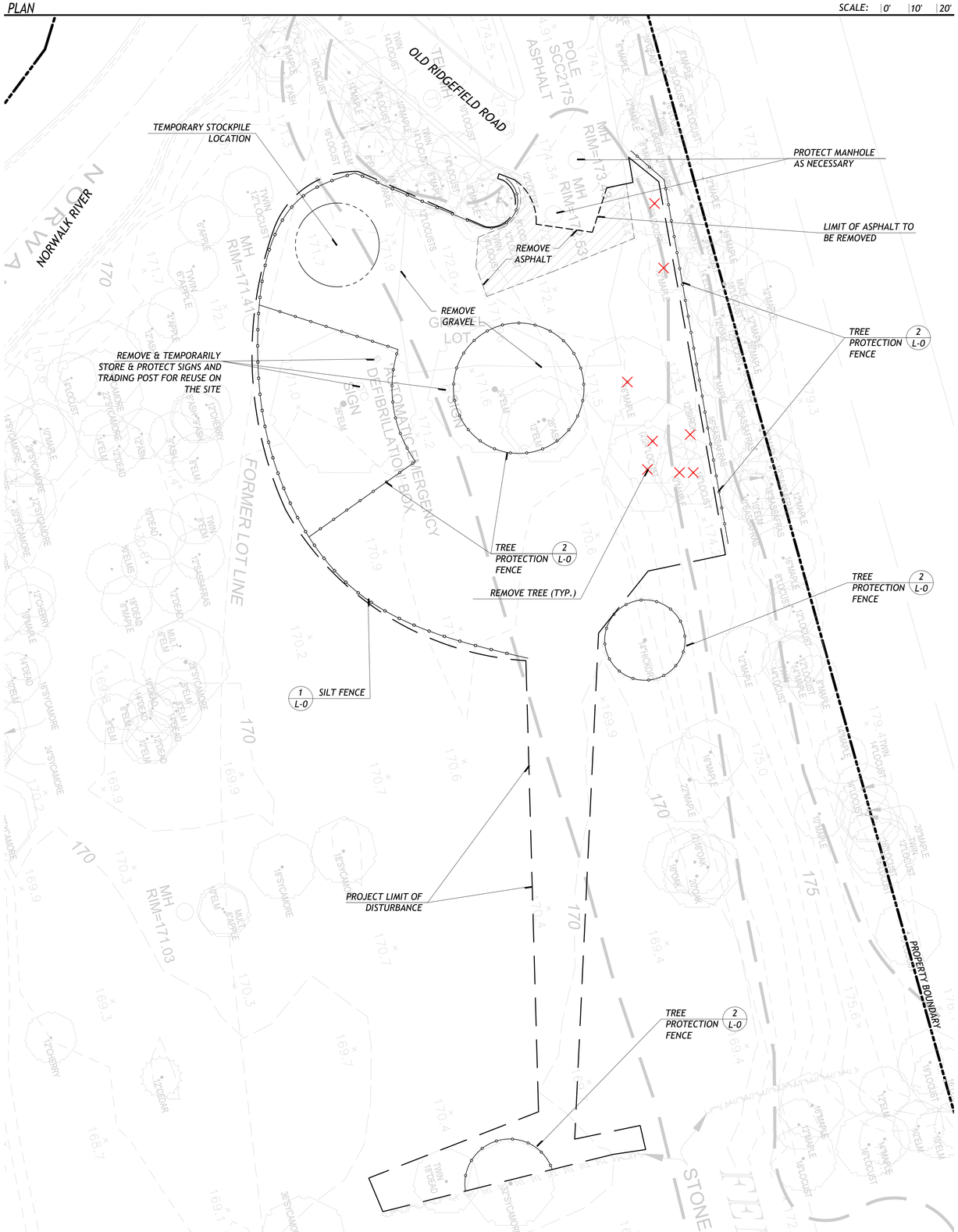
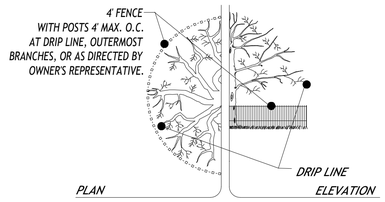
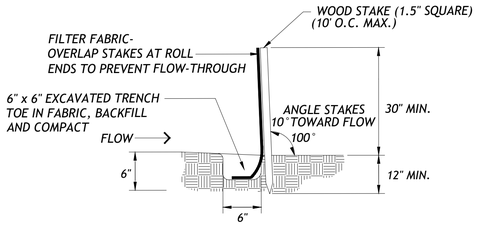




NOTE:
1. ACCEPTABLE FENCES: SNOW FENCE, CORD FENCE, WOOD FENCE
2. ROOT PRUNE EXISTING TREES AS NECESSARY FOR CONSTRUCTION AS DIRECTED BY LANDSCAPE ARCHITECT.
3. NO STOCKPILING OF MATERIALS OR SUPPLIES WITHIN THE TREE PROTECTION FENCE.

2 TREE PROTECTION DETAIL

SCALE: N.T.S.



SECTION

1. INSTALL SILT FENCE BEFORE COMMENCEMENT OF CONSTRUCTION AND MAINTAIN IN PLACE FOR DURATION OF THE PROJECT UNTIL THE SOIL SURFACE OF UPGRADIENT LAND IS FINALLY STABILIZED VIA ESTABLISHMENT OF PROPOSED VEGETATION.
2. JOINTS ONLY AT SUPPORT POST WITH MINIMUM 6" OVERLAP, SECURELY SEALED
3. INSPECT BARRIER AFTER EACH STORM EVENT AND DAILY DURING PROLONGED RAINFALL.
4. REMOVE SEDIMENT WHEN IT REACHES APPROXIMATELY ONE-HALF THE BARRIER HEIGHT.

1 SILT FENCE DETAIL

SCALE: N.T.S.

SIGN RELOCATION NOTES

1. CAREFULLY EXCAVATE EXISTING SIGN AND TRADING POST
2. REMOVE STRUCTURAL BASE MATERIAL AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS.

CONSTRUCTION SEQUENCE

1. INSTALL TEMPORARY PERIMETER SILT FENCE AND TEMPORARY CONSTRUCTION ACCESS. OBTAIN L.A. AND OR TOWN APPROVAL OF INSTALLED FENCE. MAINTAIN FENCE THROUGHOUT THE CONSTRUCTION AND UNTIL THE SITE IS STABILIZED.
2. PREVENT THE TRACKING OF CONSTRUCTION SEDIMENT ONTO OLD RIDGEFIELD ROAD. IF UNAVOIDABLE, CLEAN SEDIMENT FROM ROAD SURFACE DAILY.
3. INSTALL TREE PROTECTION. OBTAIN L.A. AND OR TOWN APPROVAL OF THE PROTECTION.
4. COMPLETE DEMOLITION ACTIVITIES AS DRAWN & DETAILED.
5. CONSTRUCT PROPOSED SITE IMPROVEMENTS
6. REMOVE UNUSED SOIL AND CONSTRUCTION DEBRIS AND LEGALLY DISPOSE OFF SITE.
7. PERMANENTLY STABILIZE CONSTRUCTION DISTURBED SOIL SURFACES WITH VEGETATION OR LANDSCAPE MULCH.
8. REMOVE TREE PROTECTIONS.
9. REMOVE SILT FENCE.

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PROJECT:

SCHENK'S ISLAND PRESERVE

PHASE 1 IMPROVEMENTS: PARK ENTRY & PARKING

OWNER / CLIENT:

TOWN OF WILTON CHARTER 1802 SEAL CONNECTICUT

ENVIRONMENTAL AFFAIRS

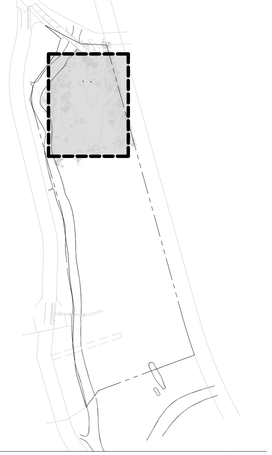
ELECTRICAL ENGINEER:

SG ENGINEERING LLC

PROGRESS ISSUE:

1	CONSTRUCTION DOCUMENTS	03/28/2022

KEYPLAN:



SCALE: AS NOTED

SEAL:

NORTH

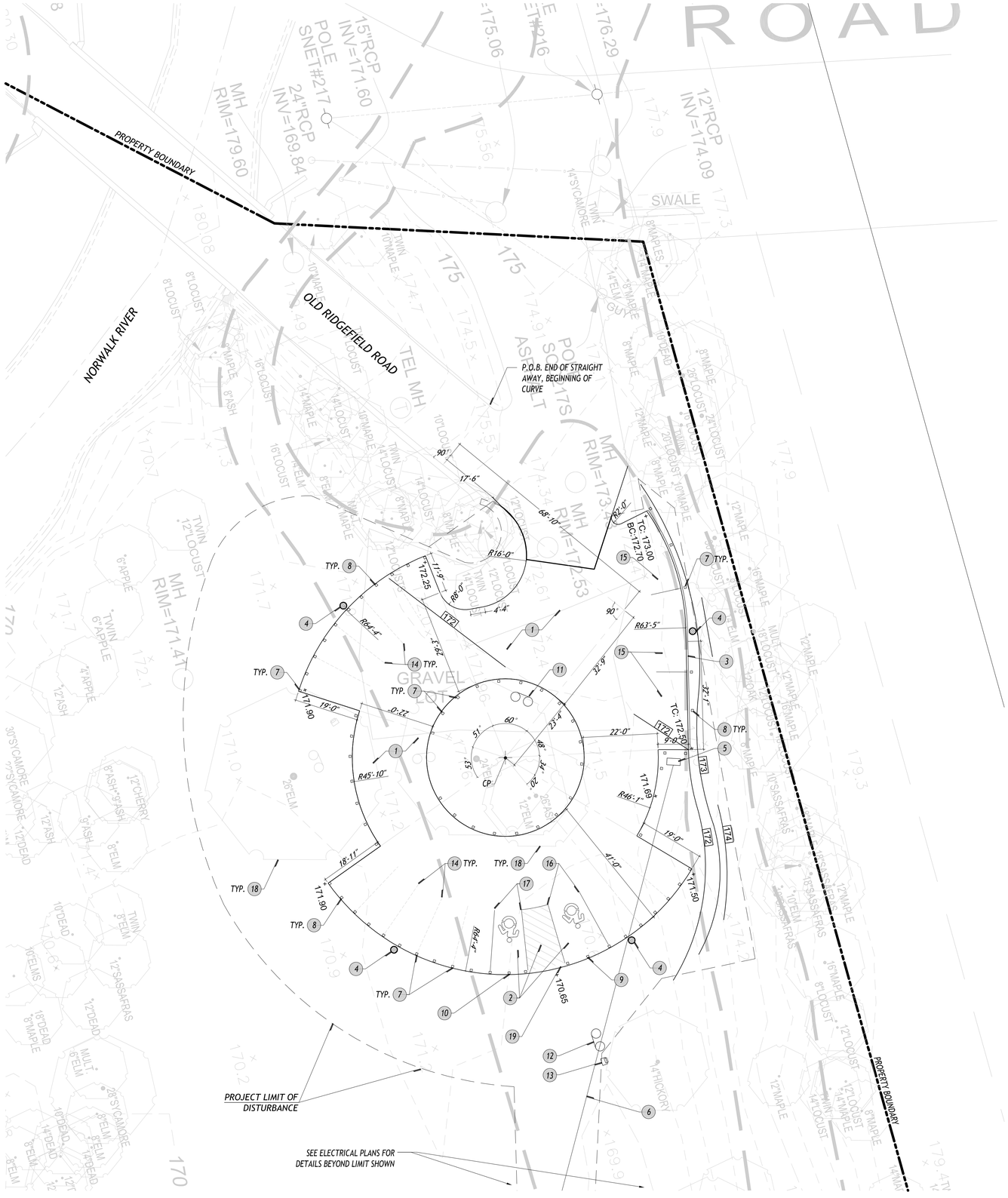
SHEET TITLE:

PROTECTION, DEMOLITION & EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER:

L-0

REF. NO. 4783



DESCRIPTION LEGEND

SYMBOL	DESCRIPTION	DETAIL PAGE	DETAIL NUMBER
1	GRAVEL PAVEMENT	D-1	1
2	GEO-GRID PAEMENET	D-1	2
3	GRANITE CURB	D-1	8
4	LIGHT FIXTURE & OUTLET	E-0,E-1,E-2 & E-3	
5	ELECTRICAL PANEL	E-0,E-1,E-2 & E-3	
6	ELECTRICAL CONDUIT	E-0,E-1,E-2 & E-3	
7	BOLLARD	D-1	3, 4, 5, 6 & 7
8	BOLLARD WITH PARKING SIGN	D-1	4, 7 & 11
9	BOLLARD WITH HANDICAPPED PARKING SIGN	D-1	3, 7 & 9
10	BOLLARD WITH VAN HANDICAPPED PARKING SIGN	D-1	3, 7 & 9
11	ENTRANCE SIGN	L-0	
12	INFORMATION SIGN	L-0	
13	TRADING POST	L-0	
14	STANDARD PARKING SPACE	D-1	1, 4 & 11
15	PARALLEL PARKING SPACE	D-1	1, 5 & 11
16	HANDICAPPED PARKING SPACE	D-1	2, 3, 9 & 10
17	HANDICAPPED VAN PARKING SPACE	D-1	2, 3, 9 & 10
18	EXISTING TREE	L-0	2
19	BARRIER CHAIN	D-1	6

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PROJECT:

SCHENK'S ISLAND PRESERVE

PHASE 1 IMPROVEMENTS: PARK ENTRY & PARKING

OWNER / CLIENT:

TOWN OF WILTON CHARTER 1802 SEAL CONNECTICUT

ENVIRONMENTAL AFFAIRS

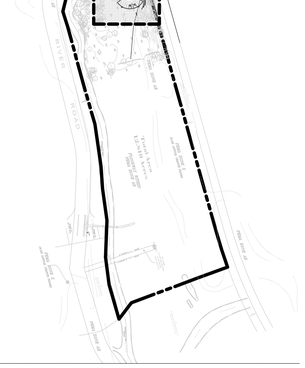
ELECTRICAL ENGINEER:

SG ENGINEERING LLC

PROGRESS ISSUE:

1	CONSTRUCTION DOCUMENTS	03/28/2022

KEYPLAN:



SCALE: 0' 8' 16'

SEAL:

NORTH

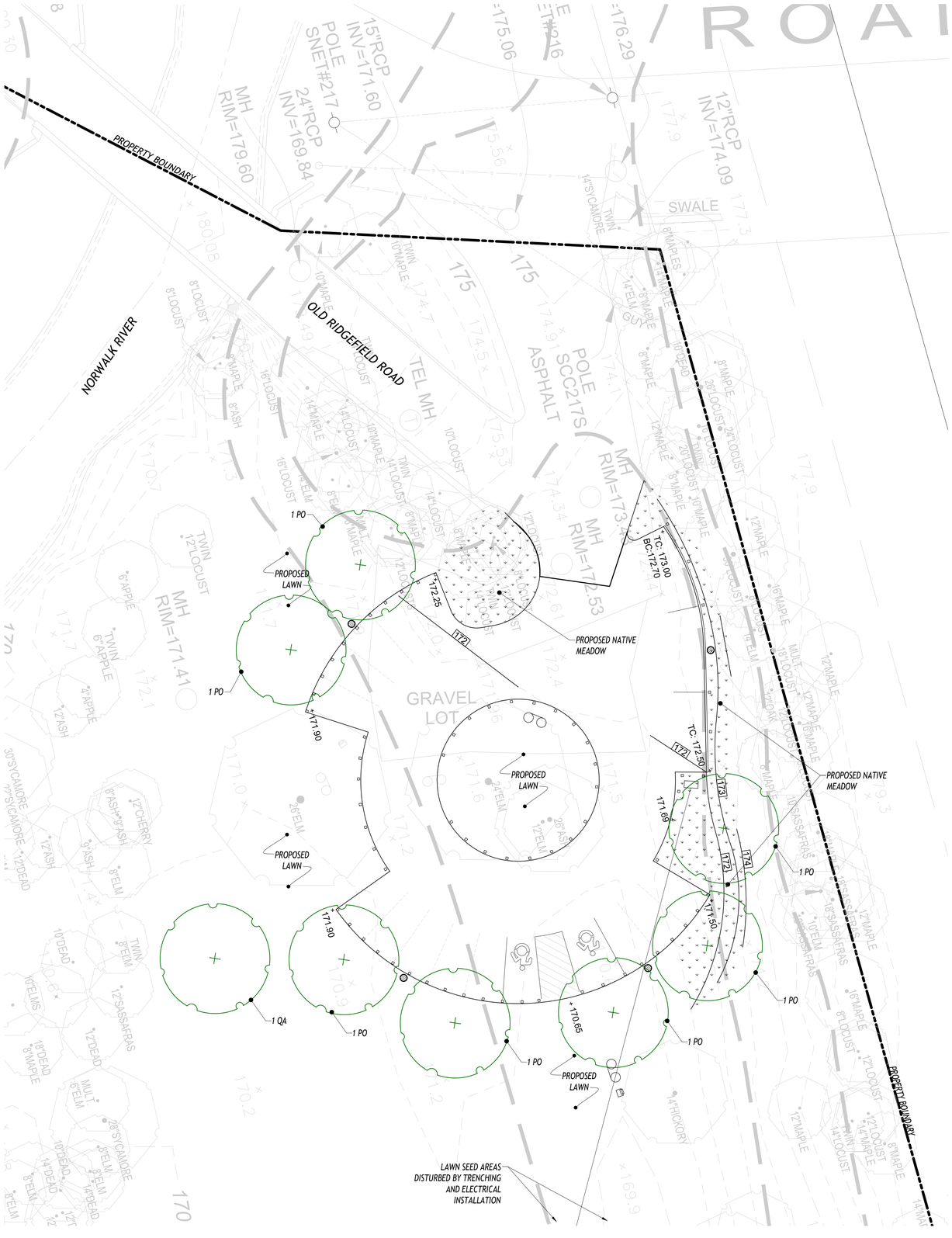
SHEET TITLE:

SITE DEVELOPMENT PLAN

SHEET NUMBER:

L-1

REF. NO. 4783



PLANT LIST

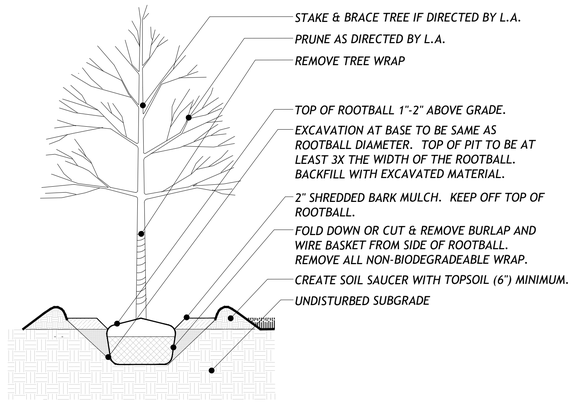
SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT
PROPOSED NATIVE SHADE TREES					
PO	7	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	3"-4" CAL.	B&B
QA	1	QUERCUS ALBA	WHITE OAK	3"-4" CAL.	B&B
TOTAL:	8				

PROPOSED NATIVE MEADOW

PROPOSED NATIVE UPLAND SEED SHALL BE 100% ASTER DIVARICATUS ECOTYPE AS PRODUCED BY ERNST SEED (WWW.ERNSTSEED.COM). APPLIED AT A RATE OF 0.4 LBS PER ACRE. OR APPROVED EQUAL

PROPOSED LAWN

PROPOSED LAWN SEED: 25% KENTUCKY BLUE, 25% RED FESCUE, 5-% MICROCLOVER APPLIED AT A RATE OF 350 LBS PER ACRE . OR APPROVED EQUAL



1 TREE PLANTING

SCALE: N.T.S.

WILLIAM KENNY ASSOCIATES
LANDSCAPE ARCHITECTURE ▪ ECOLOGICAL SERVICES
1899 Bronson Road Fairfield CT 06824
203 366 0588 www.wkassociates.net

PROJECT:

SCHENK'S ISLAND PRESERVE

PHASE 1: IMPROVEMENTS
PARK ENTRY & PARKING

OWNER / CLIENT:

TOWN OF WILTON CHARTER 1802 SEAL CONNECTICUT

ENVIRONMENTAL AFFAIRS

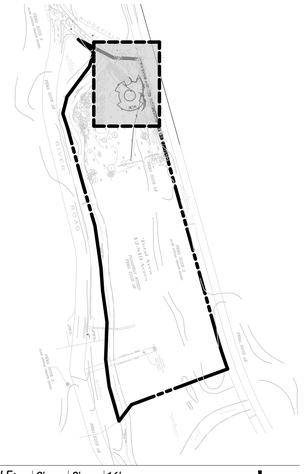
ELECTRICAL ENGINEER:

SG ENGINEERING LLC

PROGRESS ISSUE:

1	CONSTRUCTION DOCUMENTS	03/28/2022

KEYPLAN:



SCALE: 0' 8' 16'

SEAL:

NORTH

SHEET TITLE:

PLANTING PLAN

SHEET NUMBER:

P-1

REF. NO. 4783

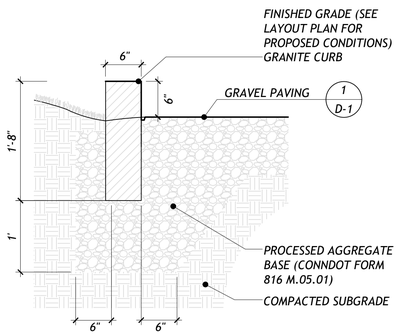
NOTES:
STANDARD PARKING SIGNAGE IMAGE. SEE DETAIL 7 ON THIS SHEET

11 PARKING SIGN
SCALE: N.T.S.

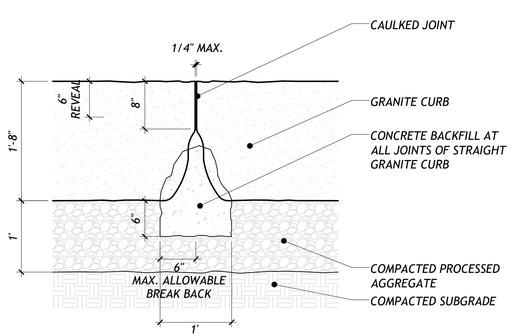
10 SNOW SPOT STRIPING IMAGE
SCALE: N.T.S.

NOTES:
HANDICAPPED SIGN SHALL BE CONN D.O.T SERIES 30 #31-0629 AND CONN D.O.T SERIES & 30 #31_0648. MOUNT SIGN TO BOLLARD. SEE LAYOUT PLAN.

9 HANDICAPPED PARKING SIGN

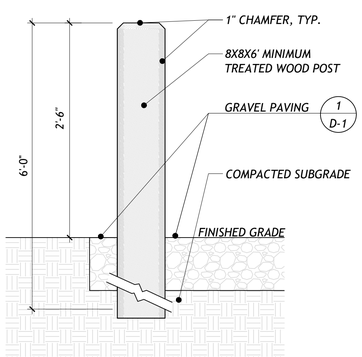


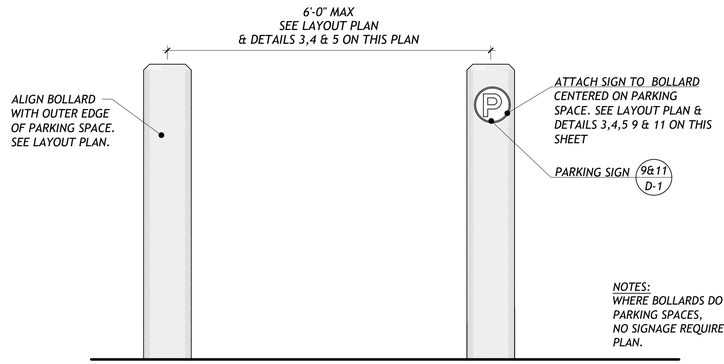
SECTION



ELEVATION

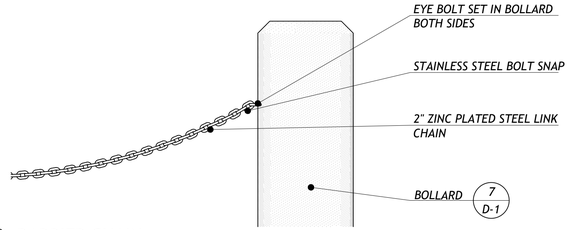
8 GRANITE CURB
SCALE: N.T.S.



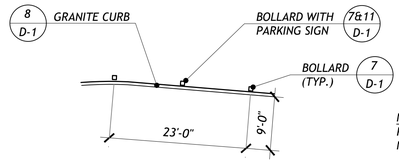


NOTES:
WHERE BOLLARDS DO NOT FOLLOW PARKING SPACES,
NO SIGNAGE REQUIRED. SEE LAYOUT PLAN.

7 BOLLARD
SCALE: N.T.S.

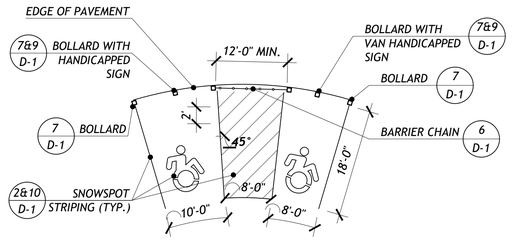


6 BARRIER CHAIN
SCALE: N.T.S.



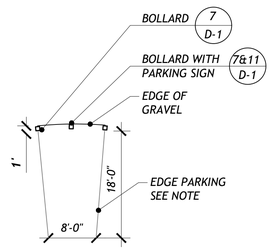
NOTE:
PARKING SPACES MARKED BY BOLLARD.
NO STRIPPING REQUIRED.

5 PARALLEL PARKING SPACE
SCALE: N.T.S.



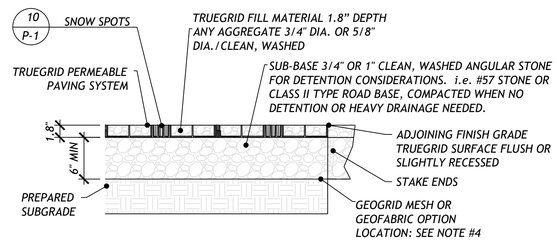
NOTES:
1) SPACES TO BE PAVED WITH GEO-GRID SURFACING. SEE DETAIL 2 & 8 ON THIS SHEET.
2) HANDICAPPED PARKING SHALL BE NO GREATER THAN 2% IN ANY DIRECTION.
3) SNOWSPOTS FOR STRIPING TO BE BLUE

3 HANDICAPPED PARKING SPACE
SCALE: N.T.S.



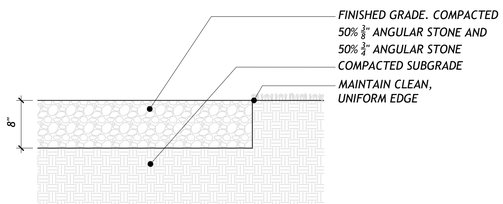
NOTE:
PARKING SPACES MARKED BY BOLLARD.
NO STRIPPING REQUIRED.

4 STANDARD PARKING SPACE
SCALE: N.T.S.



NOTES:
1. INSTALL GEO-GRID PER MANUFACTURER'S SPECIFICATIONS
2. STAKE GRID WITH NAIL

2 GEO-GRID PAVEMENT
SCALE: N.T.S.



1 GRAVEL PAVEMENT
SCALE: N.T.S.

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ENVIRONMENTAL AFFAIRS

ELECTRICAL ENGINEER:
SG ENGINEERING LLC

PROGRESS ISSUE:
1 CONSTRUCTION DOCUMENTS 3/16/2022

KEY PLAN:

SCALE: AS NOTED

SEAL:

SHEET TITLE:
DETAILS

SHEET NUMBER:
D-1

REF. NO. 4783

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL PROVISIONS FOR ELECTRICAL WORK

REFERENCES

THIS SECTION COVERS THE GENERAL REQUIREMENTS FOR ELECTRICAL WORK; EXAMINE ALL CONTRACT DRAWINGS AND ALL OTHER SECTIONS OF THE SPECIFICATIONS FOR ADDITIONAL WORK RELATED TO THE WORK OF THIS DIVISION.

DEFINITIONS

'PROVIDE' - TO FURNISH, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION OF PARTICULAR WORK REFERRED TO UNLESS, SPECIFICALLY OTHERWISE NOTED.

'INSTALL' - TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.

'WORK' - LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.

'WIRING' - RACEWAY, FITTINGS, WIRE, BOXES, MOUNTING HARDWARE AND RELATED ITEMS.

'CONCEALED' - EMBEDDED IN MASONRY OR OTHER CONSTRUCTION CAVITY, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS.

'SIMILAR' OR 'EQUAL' - EQUAL MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.

'CONTRACTOR' - THE ELECTRICAL CONTRACTOR.

'NOTED' - AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.

SCOPE

THIS WORK SHALL CONSIST OF THE FURNISHINGS OF ALL LABOR, MATERIALS AND SERVICES REQUIRED COMPLETE, READY FOR CORRECT OPERATION FOR ALL ELECTRICAL WORK CALL FOR BY THE ACCOMPANYING DRAWINGS AND SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES.

THE DATA INDICATED IN THESE DRAWINGS AND SPECIFICATIONS ARE AS EXACT AS COULD BE SECURED. BUT THEIR ABSOLUTE ACCURACY IS NOT GUARANTEED. DO NOT SCALE DRAWINGS. EXACT LOCATIONS, DISTANCES, LEVELS AND OTHER CONDITIONS WILL BE GOVERNED BY THE BUILDING. USE THE DRAWINGS AND SPECIFICATIONS FOR GUIDANCE AND SECURE THE ENGINEERS APPROVAL OF CHANGES IN LOCATIONS. CIRCUITS, WHERE SHOWN ON AN ELECTRICAL DRAWINGS, ARE SO INDICATED PRIMARILY FOR THE PURPOSE OF INDICATING THE GENERAL CIRCUIT PLAN AND DO NOT NECESSARILY INDICATE THE EXACT LOCATION OF ROUTING OF THE RACEWAYS UNLESS SPECIFICALLY INDICATED. CIRCUITS SHALL BE RUN IN SUITABLE CONDITIONS CONSIDERING STRUCTURAL FEATURES, OTHER TRADES, CONSTRUCTION METHODS AND GOOD INSTALLATION PRACTICE.

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS UNDER WHICH THE WORK AND WORK OF OTHER TRADES WILL BE INSTALLED. THIS CONTRACT INCLUDES ALL NECESSARY OFFSETS, TRANSITIONS, MODIFICATIONS AND RELOCATION REQUIRED TO INSTALL ALL NEW EQUIPMENT IN NEW OR EXISTING SPACES. CONTRACTOR SHALL INCLUDE ANY MODIFICATIONS REQUIRED IN EXISTING ELECTRICAL EQUIPMENT FOR INSTALLATION OF NEW ELECTRICAL EQUIPMENT AND NEW EQUIPMENT OF OTHER TRADES. (LIGHTING FIXTURES, DEVICES, CONDUIT WIRING, ETC.) ALL NEW AND EXISTING EQUIPMENT AND SYSTEMS SHALL BE FULLY OPERATIONAL UNDER THIS CONTRACT BEFORE THE PROJECT IS CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS THAT ARE MADE, ANY OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS OF ALL TRADES.

CODES, REGULATIONS AND STANDARDS

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING APPROVED CODES:

STATE DEMOLITION CODE
STATE BUILDING CODE
STATE FIRE SAFETY CODE
LOCAL BUILDING CODE
IBC - INTERNATIONAL BUILDING CODE
NFPA - NATIONAL FIRE PROTECTION CODE
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
U.L. - UNDERWRITERS LABORATORIES
NFPA 70 - NATIONAL ELECTRICAL CODE
EPA - ENVIRONMENTAL PROTECTION AGENCY
IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
IECC - INTERNATIONAL ENERGY CONSERVATION CODE
ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

PERMITS, FEES AND INSPECTIONS

THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, PAY FOR ALL GOVERNMENT, STATE SALES TAXES AND APPLICABLE FEES. THE CONTRACTOR SHALL FILE ALL DRAWINGS, COMPLETE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS FROM THE PROPER AUTHORITY OR AGENCY HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION COVERING WORK. THE CONTRACTOR SHALL SEE THAT ALL REQUIRED INSPECTIONS AND TESTS ARE MADE AND SHALL COOPERATE TO MAKE THESE TESTS AS THOROUGH AND AS READILY MADE AS POSSIBLE. OWNER WILL PAY ANY UTILITY FEES.

MATERIALS AND WORKMANSHIP

ALL MATERIALS AND APPARATUS REQUIRED FOR THE WORK, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE NEW AND OF FIRST-CLASS QUALITY. IT SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED, FINISHED IN EVERY DETAIL AND SO SELECTED AND ARRANGED AS TO FIT PROPERLY INTO THE BUILDING SPACES. WHERE NO SPECIFIC KIND OR QUALITY MATERIAL IS GIVEN, A FIRST-CLASS STANDARD ARTICLE AS ACCEPTED BY THE ENGINEER SHALL BE FURNISHED.

ALL EQUIPMENT AND MATERIALS SHALL BE SPECIFICATION GRADE AND BEAR THE UNDERWRITER'S LABEL. NO SUBSTITUTE OR ALTERNATE EQUIPMENT, MATERIAL, ETC. WILL BE CONSIDERED FOR THIS PROJECT.

ALL WORK SHALL BE OF A QUALITY CONSISTENT WITH GOOD TRADE PRACTICE AND SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. THE ENGINEER/OWNER RESERVES THE RIGHT TO REJECT ANY WORK WHICH, IN HIS OPINION, HAS BEEN INSTALLED IN A SUBSTANDARD, DANGEROUS OR IN A UNSERVICEABLE MANNER. THE CONTRACTOR SHALL REPLACE REJECTED WORK IN A SATISFACTORY MANNER AT NO EXTRA COST TO THE OWNER.

GUARANTEES

ALL WORKMANSHIP AND MATERIALS SHALL BE FULLY GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE ENTIRE INSTALLATION COVERED BY THIS CONTRACT. SHOULD ANY DEFECTS OCCUR DURING THE GUARANTEED PERIOD, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE EQUIPMENT, MATERIAL AND/OR WORK AT NO EXTRA CHARGE TO THE OWNER.

RECORD DRAWINGS

MAINTAIN, AT THE JOB SITE, A SET OF ELECTRICAL DRAWINGS INDICATING ALL CHANGES IN LOCATION OF THE EQUIPMENT, PANELS, DEVICES, ETC. FROM THE ORIGINAL LAYOUT. CLEARLY MARK IN RED ALL CHANGES ON THE DRAWINGS. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL TURN OVER THE RECORD DRAWINGS TO THE ENGINEER/OWNER.

COORDINATION

ALL WORK SHALL BE CARRIED OUT IN CONJUNCTION WITH OTHER TRADES AND FULL COOPERATION SHALL BE GIVEN IN ORDER THAT ALL WORK MAY PROCEED WITH A MINIMUM OF DELAY AND INTERFERENCE.

SUBMITTALS

SUBMIT ELECTRONIC COPIES FOR REVIEW, DETAILED SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIAL SPECIFIED. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ENGINEER FOR REVIEW. NO MATERIAL OR EQUIPMENT MAY BE DELIVERED TO THE JOB SITE OR INSTALLED UNTIL CONTRACTOR HAS IN THEIR POSSESSION, APPROVED SHOP DRAWINGS FOR THE PARTICULAR MATERIAL OR EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFIC WITH ITEMS SUBMITTED FOR APPROVAL CLEARLY IDENTIFIED.

THE FOLLOWING IS A LIST OF ELECTRICAL ITEMS THAT MUST BE SUBMITTED FOR REVIEW:

a. PANELBOARDS
b. CIRCUIT BREAKERS
c. LIGHTING & LIGHTING CONTROLS
d. CONDUIT, WIRE AND CABLE
e. DEVICES (RECEPTACLES, SWITCHES, POWER PEDESTALS, ETC.)

OPERATING INSTRUCTIONS

THE CONTRACTOR SHALL FURNISH TO THE ENGINEER ELECTRONIC SETS OF TYPEWRITTEN OR BLUEPRINTED INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL SYSTEMS AND EQUIPMENT INCLUDED IN THIS DIVISION. MANUFACTURER'S ADVERTISING LITERATURE OR CATALOGS WILL NOT BE ACCEPTABLE FOR OPERATING AND MAINTENANCE INSTRUCTIONS.

THE CONTRACTOR, IN THE ABOVE-MENTIONED INSTRUCTIONS, SHALL INCLUDE THE MAINTENANCE SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED UNDER THIS DIVISION.

AN AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL ATTEST IN WRITING THAT HIS EQUIPMENT HAS BEEN PROPERLY INSTALLED PRIOR TO STARTUP. THESE LETTERS WILL BE BOUND INTO OPERATING AND MAINTENANCE BOOKS.

EQUIPMENT PROTECTION

PROPERLY AND COMPLETELY PROTECT AGAINST ALL DAMAGE, ALL APPARATUS, EQUIPMENT, ETC., INCLUDED IN THIS CONTRACT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO FURNISHED APPARATUS, EQUIPMENT, ETC., UNTIL FINAL ACCEPTANCE.

PROPERTY PROTECTION

THE CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY AND/OR REQUIRED TO PROTECT OWNER'S PROPERTY WITHIN THE WORKING AREAS FROM DUST, DEBRIS AND OTHER MATTER GENERATED BY THE WORK. NO WORK SHALL COMMENCE IN AREAS WHERE PROTECTION IS REQUIRED UNTIL APPROVAL HAS BEEN GIVEN TO THE CONTRACTOR BY THE OWNER.

MANUFACTURER'S INSTRUCTION

INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS FOR PROPER OPERATION AND MAINTENANCE.

EQUIPMENT PAINTING AND CLEANING

THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT DEVICES AND ENCLOSURES UPON COMPLETION OF ALL WORK. REPAINT ANY EQUIPMENT WHOSE FINISH IS DAMAGED OR RUSTED. MATCH MANUFACTURER'S ORIGINAL FINISH.

PART 2 - PRODUCTS

DESCRIPTION

ALL MATERIALS AND EQUIPMENT PROVIDED UNDER THIS SECTION SHALL BE NEW, FIRST GRADE, BEST OF THEIR RESPECTIVE KINDS AND IN NO WAY SHALL THEY BE LESS THAN THE QUALITY AND INTENT SET FOURTH UNDER THIS SECTION. THEY SHALL MEET THE REQUIREMENTS OF ALL STANDARDS SET UP TO GOVERN THE MANUFACTURER OF ELECTRICAL MATERIALS AND COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.

WIRE

CONDUCTORS SHALL BE U.L. LISTED, 600 VOLTS, 90 DEG. C., SINGLE CONDUCTOR TYPE THWN-2. 98% CONDUCTIVITY, ANNEALED UNCOATED COPPER WITH PVC INSULATION COVERED WITH NYLON SHEATH JACKET. TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF UNDERWRITERS LABORATORIES STANDARD 83. WIRE SHALL BE IDENTIFIED BY SURFACE MARKING INDICATING MANUFACTURER'S IDENTIFICATION CONDUCTOR SIZE AND METAL, VOLTAGE RATING, U.L. SYMBOL AND TYPE DESIGNATION. CONDUCTORS SHALL BE STRANDED. MINIMUM SIZE SHALL BE #12 AWG UNLESS OTHERWISE INDICATED. MANUFACTURED BY ROME CABLE, TRIANGLE WIRE & CABLE, GENERAL CABLE OR ESSEX WIRE & CABLE.

RIGID GALVANIZED STEEL CONDUIT (RGS)

RIGID STEEL CONDUIT SHALL BE FULL WEIGHT, HEAVY WALL STEEL PIPE WITH GALVANIZED PROTECTIVE COATING. MANUFACTURED BY TRIANGLE WIRE AND CABLE, ALLIED TUBE AND CONDUIT, REPUBLIC OR STEELDUCT. CONDUIT FITTINGS SHALL BE MALLEABLE IRON, CADMIUM PLATED WITH FULL THREADED HUBS.

RIGID POLYVINYL CHLORIDE CONDUIT (PVC)

RIGID POLYVINYL CHLORIDE CONDUIT SHALL BE TYPE DB, UNLIGHT RESISTANT, RATED OR USE WITH 90 DEGREES C. CONDUCTORS, U.L. RATED. ALL PVC CONDUIT AND FITTINGS SHALL BE SOLVENT WELDED. MANUFACTURED BY CARLON, ELECTRI-FLEX OR PLASTILINE. SCHEDULE 80 UNLESS SPECIFICALLY NOTED AS SCHEDULE 40 ON THE DRAWINGS.

FITTINGS

CONDUIT BODIES FOR RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE MALLEABLE IRON-ZINC PLATED WITH TAPERED HUBS AND GASKETED ALUMINUM COVER.

INSULATION BUSHINGS SHALL BE HIGH IMPACT THERMOPLASTIC PHENOLIC WITH 150 DEG. C. UL TEMPERATURE RATING.

INSULATED GROUNDING BUSHINGS SHALL BE MALLEABLE IRON ZINC PLATED WITH MOLDED ON PHENOLIC INSULATION AND LAY-IN GROUNDING LUG.

CONDUIT LOCKNUTS SHALL BE HEAVY NUT STOCK STEEL-ZINC PLATED.

OFFSET NIPPLES SHALL BE MALLEABLE IRON ZINC PLATED WITH RIGID CONDUIT THREADING AND 3/4" OFFSET.

CONDUIT STRAPS SHALL BE SNAP-TYPE, DOUBLE RIBBED STEEL-ZINC PLATED.

CONDUIT FITTINGS SHALL BE MANUFACTURED BY O/Z GEDNEY, CROUSE-HINDS OR APPLETON.

SUPPORT FITTINGS

SUPPORT CHANNEL SHALL BE ROLL-FORMED #12 GAUGE STEEL, SOLID BASE OR BOLT HOLE BASE - HOT DIP GALVANIZED FINISH. COMPLETE WITH ANGLE FITTINGS, SPRING NUTS, CONDUIT SUPPORTS, 3/8" OR 1/2" THREADED RODS (SIZE REQUIRED FOR LOAD), ETC.

CABLE TIES

CABLE TIES SHALL BE FABRICATED OF ONE-PIECE HALLAR WITH NO METAL PARTS. MANUFACTURED BY BURNDY, T&B, PANDUIT OR BLACKBURN.

HANDHOLES

HANDHOLES SHALL BE OPEN BOTTOM, POLYMER CONCRETE, TIER 8, SIZE AS REQUIRED TO ACCOMMODATE ENTRY/EXIT LOCATIONS AND SIZES OF CONDUITS IN THE BOX. QUAZITE OR APPROVED EQUAL.

OUTLET BOXES

OUTLET BOXES SHALL BE WET LOCATION RATED, AND OF PROPER TYPE AND SIZE AS REQUIRED FOR THE PARTICULAR APPLICATION. SIZE AND TYPE DICTATED BY THE NUMBER OF DEVICES, NUMBER OF CONDUCTORS AND WIRING METHOD UTILIZED. BOXES SHALL BE ADEQUATE SIZE FOR THE INSTALLATION OF CONDUCTORS WITHOUT EXCESSIVE BENDING OR CRIMPING OF THE CONDUCTORS AND DAMAGING OF CONDUCTOR INSULATION. MANUFACTURED BY STEEL CITY OR RACO.

LIGHTING CONTROL SYSTEMS STARTUP & TRAINING

ENGAGE THE SERVICES OF THE SYSTEM MANUFACTURER TO PROVIDE ON-SITE PROGRAMMING, STARTUP, CALIBRATION & OWNER'S TRAINING FOR THE LIGHTING CONTROL SYSTEM.

PANELBOARDS

PANELBOARDS SHALL BE THE COMBINATION THERMAL/MAGNETIC CIRCUIT BREAKER TYPE, 3 PHASE, 4 WIRE WITH THE NUMBER OF BRANCH CIRCUITS AS INDICATED ON THE SCHEDULES. PROVIDE WITH FULLY RATED HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVE PHASE AND GROUND BUS. LUGS SIZED TO ACCOMMODATE WIRE QUALITY AND SIZES. PANELS SHALL BE U.L. LISTED. DOOR-IN-DOOR DESIGN. BOXES SHALL BE CORROSION RESISTANT, ZINC FINISH GALVANIZED. FRONTS SHALL BE REINFORCED STEEL POWDER FINISH PAINTED LIGHT GRAY (ANSI-61) AND SHALL BE EQUIPPED WITH CONCEALED HINGES AND CONCEALED TRIM ADJUSTING SCREWS. DIRECTORY CARD HOLDERS SHALL BE CORROSION-PROOF VALOX WITH RETRACTABLE LATCH, KEYED ALIKE. PHASE BUS SHALL BE SEQUENCED AND FULLY INSULATED RATINGS SHALL BE DISPLAYED ON THE DEAD FRONT SHIELD AND TOTALLY VISIBLE WITH THE DOOR OPEN. REFER TO SCHEDULES FOR OTHER REQUIREMENTS.

CIRCUIT BREAKERS

BRANCH CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK, BOLT-IN THERMALMAGNETIC TYPE WITH VISIBLE CURRENT RATING AND TRIP POSITION. MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE 'D' OR CUTLER HAMMER. REFER TO SCHEDULES FOR AIC RATING.

ALL MULTI-POLE BREAKERS SHALL BE EQUIPPED WITH HANDLE TIES FOR MULTI-POLE USE.

WIRING DEVICES

ALL DEVICES (RECEPTACLES AND SWITCHES) SHALL BE COMMERCIAL SPECIFICATION GRADE, 20 AMP RATED, U.L. LISTED, SELF-GROUNDING, GROUND LUG, SIDE/BACK WIRED. MANUFACTURED BY HUBBELL, LEVITON, OR PASS & SEYMOUR.

LIGHTING FIXTURES

FURNISH AND INSTALL ALL LIGHTING FIXTURES AS SPECIFIED ON THE SCHEDULES, COMPLETE WITH ALL ACCESSORIES, LOUVERS, LAMPS AND MOUNTING HARDWARE. THE FIXTURES SHOWN ARE MARKED AS TYPE A, B, C, ETC.

CLEAN AND REMOVE ALL PAINT, STICKERS, DIRT, SMUDGES AND FINGERPRINTS FROM LIGHTING FIXTURES.

IF BASIS OF DESIGN FIXTURES ARE NOT PROVIDED, THE PROPOSED ALTERNATIVES SHALL BE EQUAL IN QUALITY, FEATURES, MATERIAL, COLOR/FINISH, APPEARANCE, DIMENSIONS AND PERFORMANCE. APPROVAL OF ANY PROPOSED ALTERNATIVES WILL BE SUBJECT TO ENGINEER AND OWNER REVIEW. IN ADDITION, PHOTOMETRIC CALCULATIONS SHALL BE PROVIDED FOR ALTERNATIVE FIXTURES TO DEMONSTRATE EQUAL PERFORMANCE.

POWER PEDESTALS

POWER PEDESTALS SHALL BE WEATHERPROOF, OUTDOOR RATED, 2-GANG CAPACITY, BLACK FINISH WITH LOCKABLE HINGED COVER AND DEVICE TYPES AND QUANTITIES AS INDICATED ON PLANS. LEGRAND XPP2G30C-BK OR EQUAL.

PART 3 - EXECUTION

INSTALLATION

ALL WORK, MATERIALS AND MANNER OF INSTALLING SAME SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.

ALL CONDUIT AND WIRING SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.

WIRING IN EXPOSED AREAS SHALL BE ROUTED IN RGS CONDUIT.

RACEWAYS

RACEWAYS, ENCLOSURES AND BOXES SHALL BE MECHANICALLY JOINED TO FORM A CONTINUOUS ELECTRICAL PATH.

THE CONTRACTOR SHALL PROVIDE APPROVED TYPE PULL BOXES AS REQUIRED.

MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.

FURNISH NYLON PULL STRINGS IN ALL EMPTY CONDUIT RUNS.

FURNISH LOCKNUTS AND BUSHINGS FOR ALL CONDUIT TERMINATIONS IN ALL OUTLET BOXES, PANELS, PULL BOXES, CONDUIT STUBS, ETC.

RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE USED FOR WIRING IN THE FOLLOWING LOCATIONS:

1. EXTERIOR EXPOSED INSTALLATIONS
2. CONDUIT SWEEPS / STUB-UPS
3. WITHIN STONE WALLS

RIGID POLYVINYL CHLORIDE (PVC) SHALL BE USED FOR WIRING IN THE FOLLOWING LOCATIONS:

1. LIGHTING AND POWER BRANCH CIRCUIT OR FEEDER WIRING BURIED UNDER GRASS (SCHEDULE 40)
2. BELOW CONCRETE SLABS (SCHEDULE 40)
3. BELOW PARKING LOTS AND OTHER PAVED AREAS SUBJECT TO VEHICULAR TRAVEL (SCHEDULE 80)

ALL CONDUIT SHALL BE SUPPORTED.

WIRING

PROVIDE WIRING TO ALL OUTLETS, EQUIPMENT, APPARATUS AND OTHER SPECIALTIES UNDER THIS DIVISION THAT WHICH FURNISHED OR PROVIDED UNDER OTHER DIVISIONS OR BY THE OWNER.

THE TERM 'WIRING' SHALL BE CONSIDERED TO BE COMPRISED OF THE CONDUIT, CONDUCTORS, CONNECTIONS, ETC.

ALL WIRING ON DRAWINGS IS SIZED FOR TYPE THWN/THHN COPPER CONDUCTORS.

MINIMUM SIZE WIRE SHALL BE #12 UNLESS OTHERWISE INDICATED. ALL WIRING SHALL BE COLOR CODED.

EXERCISE CAUTION IN PULLING CONDUCTORS INTO RACEWAYS SO AS NOT TO DAMAGE THE INSULATION. CABLE PULLING LUBRICANT SHALL BE USED TO ASSIST IN PULLING.

CONDUCTORS WITHIN PANELBOARDS, JUNCTION BOXES, TROUGHS AND OTHER EQUIPMENT WHERE CONCENTRATIONS OF CONDUCTORS ARE ENCLOSED, SHALL BE NEATLY ARRANGED AND TIED WITH CABLE TIES.

CIRCUITS SHALL BE SO CONNECTED TO THE PANELBOARDS THAT THE TOTAL LOAD IS DISTRIBUTED AS NEATLY AS POSSIBLE, EQUALLY BETWEEN EACH LINE AND NEUTRAL. 10% WILL BE CONSIDERED A REASONABLE AND ALLOWABLE UNBALANCE.

COMMON NEUTRAL FOR MULTIPLE BRANCH CIRCUITS IS NOT ACCEPTABLE. PROVIDE SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT.

WIRING IN OUTLET BOXES, JUNCTION BOXES, CABINET PANELBOARDS OR EQUIPMENT SHALL HAVE A MINIMUM OF EIGHT (8") INCHES LENGTH LEADS FOR CONNECTING WIRING DEVICES TO MAKE UP CIRCUIT SPLICES.

INSTALL COPPER GREEN INSULATED GROUNDING CONDUCTOR IN ALL CONDUITS AND RACEWAYS.

SPLICING

SPLICING SHALL BE DONE WITH INSULATED OR NON-INSULATED CONNECTORS OF APPROPRIATE TYPES AND CURRENT-CARRYING CAPACITY. NON-INSUALTED CONNECTORS SHALL BE WRAPPED WITH INSULATING TAPE TO THE THICKNESS OF THE INSULATION OF THE CONDUCTORS BEING SPLICED. ELECTRICAL TAPE SHALL BE 3M OR SUPER 88 SCOTCH VINYL FLAME-RETARDANT , COLD AND WEATHER RESISTANT.

SPLICES FOR CONDUCTORS, SIZES #10 AWG OR SMALLER SHALL BE MADE WITH U.L. LISTED SPRING-TYPE CONNECTORS OR APPROPRIATE CURRENT CARRYING CAPACITY.

SPLICES, TAPS AND TERMINALS FOR CONDUCTORS #8 AWG OR LARGER SHALL BE MADE WITH U.L. LISTED BOLTED PRESSURE CONNECTORS OF BRONZE OR COPPER CONSTRUCTION, OF APPROPRIATE CURRENT CARRYING CAPACITY. EQUAL TO O/Z GEDENY, BURNDY OR BLACKBURN.

CONDUCTOR IDENTIFICATION

CONDUCTORS #8 AWG AND SMALLER SHALL HAVE A COLOR-CODED INSULATION.

CONDUCTORS #6 AWG AND LARGER SHALL BE IDENTIFIED WITH TAPES APPLIED NEAR THE ENDS OF THE CONDUCTORS.

FEEDERS AND BRANCH CIRCUIT CONDUCTORS SHALL BE IDENTIFIED FOR PHASE ROTATION.

240/120V/1PH

HOT 1	BLACK
HOT 2	RED
NEUTRAL	WHITE
GROUND	GREEN

ALL FEEDERS, MAINS AND BRANCH CIRCUIT CONDUCTORS SHALL BE TAGGED AT BOTH ENDS WITH WIRE MARKERS IN ALL PANELS, MOTOR CONTROLS, JUNCTION BOXES, OUTLET BOXES AND DEVICE BOXES.

IDENTIFICATION

FURNISH AND INSTALL NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT, IDENTIFYING ITEMS BY NAME, FUNCTION AND/OR CONTROL.

IDENTIFYING NAMEPLATES SHALL BE LAMINATED, PLASTIC TYPE, CONSISTING OF TWO BLACK PLASTIC SHEETS WITH ONE WHITE PLASTIC SHEET BONDED TO AND BETWEEN THE TWO OUTER BLACK SHEETS AND HAVING THE LETTERS ENGRAVED IN ONE BLACK TO THE DEPTH OF THE WHITE PLASTIC. FASTEN NAMEPLATES TO EQUIPMENT WITH SUITABLE ADHESIVES OR STAINLESS STEEL SCREWS. IN ADDITION TO THE PANELBOARD IDENTIFYING NAMEPLATE, PROVIDE ONE OF THE FOLLOWING LAMINATED PLATES ON EACH PANELBOARD (BASED ON THE PANELBOARD VOLTAGE):

VOLTAGE	HOT1	HOT2	N	G
240/120	BLACK	RED	WHITE	GREEN

ALL PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES IDENTIFYING ALL BRANCH CIRCUITS. PROVIDE ADDITIONAL COPY OF COMPLETE UPDATED PANEL DIRECTORY TO THE OWNER.

USE PLASTIC-COATED WIRE MARKERS OF THE SELF-ADHESIVE. WRAPAROUND TYPE WITH PERMANENT FACTORY-PRINTED NUMBER, LETTERS AND SYMBOLS.

WIRE MARKERS SHALL BE SECURELY ATTACHED AT BOTH ENDS, IDENTIFYING PANEL AND CIRCUIT BREAKER NUMBERS.

ALL CONDUCTORS SHALL BE PERMANENTLY TAGGED AT TIME OF INSTALLATION. LABELS SHALL BE EQUAL TO T&B, PANDUIT OR IDEAL.

GROUNDING

ALL ELECTRICAL WORK SHALL BE GROUNDED AND BONDED IN FULL CONFORMANCE WITH THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE AND LOCAL REQUIREMENTS.

ALL ELECTRICAL EQUIPMENT, PANELBOARD ENCLOSURES, MOTOR FRAMES, SAFETY SWITCHES, METAL ENCLOSURES, ELECTRICAL DEVICE CLOSURES AND ALL OTHER EQUIPMENT SHALL BE MADE TO FORM A CONTINUOUS CONDUCTING, GROUND PATH OF LOW IMPEDANCE FOR GROUND FAULT CIRCUITS AND OPERATION OF THE CIRCUIT PROTECTIVE DEVICES WITHIN EACH CIRCUIT.

PROVIDE GROUNDING CONDUCTOR IN ALL RACEWAYS.

GROUND CONNECTIONS WITH THE GROUNDING CONDUCTORS SHALL BE MADE AT EACH OUTLET BOX, LIGHTING FIXTURE, MOTOR AND OTHER EQUIPMENT COMPONENTS BY MEANS OF A POSITIVELY SECURED GROUNDING CLAMP, SCREW OR CLIP.

BONDING SHALL BE PROVIDED TO ASSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO SAFELY CONDUCT ANY FAULT CURRENT LIKELY TO BE IMPOSED.

ALL DEVICES (SWITCHES, RECEPTACLES, ETC.), SHALL BE GROUNDED TO CONDUIT SYSTEM WITH SIX (6") INCH SOLID COPPER #12 AWG INSULATED WIRE (GREEN) CONNECTED TO GROUND SCREW IN DEVICE AND FASTENED TO BACKBOX WITH 10-32x3/8" SLOTTED HEXAGON HEAD WASHER FACE GROUND WITH GREEN DYE FINISH.

END OF ELECTRICAL SPECIFICATIONS

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ROAD WILTON, CT

ELECTRICAL ENGINEER:

SG ENGINEERING LLC
56 FOXCROFT COURT
SOUTHINGTON, CT

PROGRESS ISSUE:

1	*CONSTRUCTION DOCUMENTS*	*03/28/2022*

SCALE: AS NOTED

SEAL:

SHEET TITLE:

ELECTRICAL SPECIFICATIONS

SHEET NUMBER:

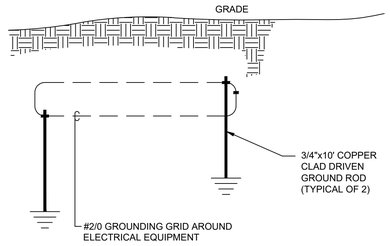
E-0

REF. NO. 4783

LIGHT FIXTURE SCHEDULE

TYPE	BASIS OF DESIGN	DESCRIPTION	VOLTAGE	LAMPING	REMARKS
SL4	STERNBERG TW1/15/PV/S/A-2/BKT (POLE) STERNBERG SH-GL1960-B-BFS-12L30T4-MDL012-CA-PE-BKT (FIXTURE)	LED POLE LIGHT, 15' SMOOTH BLACK TEXTURED POLE MOUNTED TO CONCRETE BASE, 3000°K, TYPE T4 DISTRIBUTION, 4705 LUMENS, CLEAR ACRYLIC LENS, BLACK TEXTURED FINISH, INTEGRAL PHOTOCELL	240V	39W LED	1, 2
SL4B	STERNBERG TW1/15/PV/S/A-2/BKT (POLE) STERNBERG SH-GL1960-B-BFS-12L30T4-MDL012-CA-BLOC-PE-BKT (FIXTURE)	SAME AS TYPE 'SL4', BUT WITH BACK LIGHT OPTICAL CONTROL	240V	39W LED	1, 2

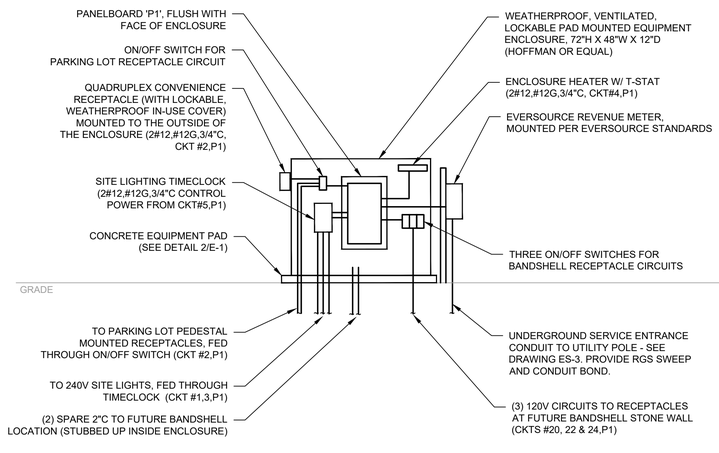
NOTES:
1. PROVIDE ALL NECESSARY MOUNTING HARDWARE, HANGERS, BRACKETS, ETC.
2. IF BASIS OF DESIGN FIXTURES ARE NOT PROVIDED, THE PROPOSED ALTERNATIVES SHALL BE EQUAL IN QUALITY, FEATURES, MATERIAL, COLOR/FINISH, DIMENSIONS, APPEARANCE AND PERFORMANCE. APPROVAL OF ANY PROPOSED ALTERNATIVES WILL BE SUBJECT TO ENGINEER AND OWNER REVIEW. IN ADDITION, PHOTOMETRIC CALCULATIONS SHALL BE PROVIDED FOR ALTERNATIVE FIXTURES TO DEMONSTRATE EQUAL PERFORMANCE.



NOTES:

1. ALL ASPECTS OF GROUNDING SYSTEM SHALL COMPLY FULLY WITH ARTICLE 250 OF N.E.C.
2. UTILIZE GROUNDING BUSHINGS AS REQUIRED.
3. PROVIDE AT PAD MOUNTED ENCLOSURE LOCATION.

3 E-1 GROUND RING DETAIL
NTS



DETAIL NOTES:
1. SEE 6/E-2 ONE-LINE POWER DIAGRAM FOR SERVICE ENTRANCE DETAILS.
2. SEE PANEL SCHEDULE ON THIS DRAWING FOR PANEL 'P1' REQUIREMENTS.
3. SEE DETAIL 2 ON THIS DRAWING FOR ENCLOSURE PAD DETAIL.
4. SEE E-3 FOR ENCLOSURE LOCATION. DOORS SHALL FACE SOUTH.
5. PROVIDE A HEATER W/ THERMOSTAT INSIDE THE ENCLOSURE TO PREVENT AGAINST CONDENSATION.
6. UTILITY REVENUE METER MAY BE MOUNTED TO SIDE OF THE ENCLOSURE IF APPROVED BY EVERSOURCE.
7. SEE CONDUCTOR AND CONDUIT SIZING ON E-3 FOR SITE LIGHTING AND RECEPTACLE CIRCUITS.
8. PROVIDE GROUND RING AROUND ENCLOSURE PER DETAIL 3/E-1 AND BOND TO ELECTRICAL SERVICE.

1 E-1 PAD MOUNTED ENCLOSURE DETAILS
NTS

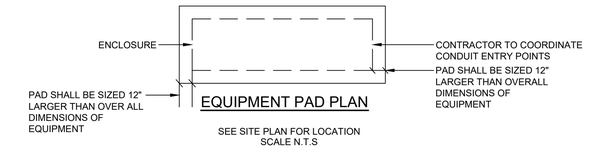
ELECTRICAL GENERAL NOTES

1. UNLESS OTHERWISE INDICATED, FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT.
2. ELECTRICAL PLANS AND DETAILS, AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE ELECTRICAL SYSTEM. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL CONDUIT BODIES, CONNECTORS, BENDS, FITTINGS, HANGERS, AND ADDITIONAL PULL AND JUNCTION BOXES WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE ELECTRICAL SYSTEM.
3. ALL EQUIPMENT AND MATERIAL SHALL BE LABELED AND LISTED, AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
4. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE GOVERNING AUTHORITIES.
5. ALL WORK SHALL BE DONE WITH LICENSED WORKERS IN ACCORDANCE WITH STATE GOVERNING AUTHORITY.
6. THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED IN THE NATIONAL ELECTRICAL CODE.
7. THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS, AND RELATED ATTACHMENTS)".
8. THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE, AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".
9. THE TERM "SPACE" ON PANELBOARD AND SWITCHBOARD SCHEDULES SHALL MEAN "PROVIDE SPACE TO INSTALL THE NUMBER OF POLES AND SIZE OF THE PROTECTIVE DEVICE INDICATED WITH ALL THE NECESSARY BUS AND FITTINGS TO INSTALL THE DEVICE AT SOME FUTURE DATE".
10. COORDINATE ELECTRICAL WORK WITH OWNER.
11. COORDINATE ELECTRICAL WORK WITH OTHER DIVISIONS OF THIS PROJECT.
12. BEFORE SELECTING MATERIAL AND EQUIPMENT, AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY, AND CHECK NEEDED SPACE FOR REPLACEMENT, CLEARANCES AND INTERCONNECTIONS.
13. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, 2017 EDITION.

MANUFACTURER: T.B.D. (NEW) | MLO OR MCB: MCB | PANEL: **PANEL P1**
TYPE: PANEL | FEED: SEE RISER | VOLTAGE: 240V/120V, 1-PHASE
MOUNTING: SURFACE | CU OR AL WIRE: CU | MAIN AMPS: 400A MCB
LOCATION: SEE PLANS | AIC RATING: 42 KAIC | FEEDER: SEE RISER

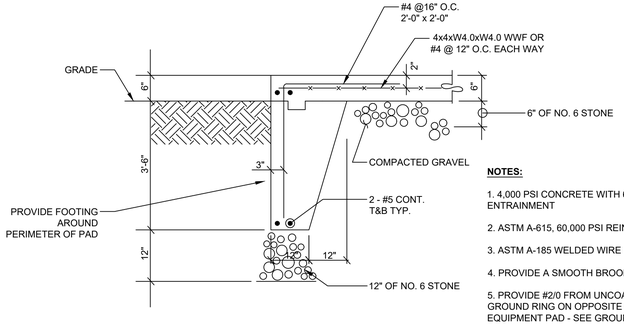
BREAKER OPTIONS:

CKT NO.	LOAD	KVA	BRKR		BRKR	KVA	LOAD	CKT NO.
1	SITE LIGHTING	0.08	20		20	1.08	PKNG LOT AREA RECEPTACLES	2
3	"	0.08	-		20	0.50	ENCLOSURE HEATER	4
5	TIMECLOCK	0.10	20		20		SPARE	6
7	SPARE		20		20		SPARE	8
9	EMPTY SPACE / PROVISIONS				20		SPARE	10
11	EMPTY SPACE / PROVISIONS				20		SPARE	12
13	EMPTY SPACE / PROVISIONS						EMPTY SPACE / PROVISIONS	14
15	EMPTY SPACE / PROVISIONS						EMPTY SPACE / PROVISIONS	16
17	EMPTY SPACE / PROVISIONS						EMPTY SPACE / PROVISIONS	18
19	100A-3P PROVISIONS / SPACE				20	1.92	DEDICATED QUAD RECEPT	20
21	"				20	1.92	DEDICATED QUAD RECEPT	22
23	"				20	1.92	DEDICATED QUAD RECEPT	24



EQUIPMENT PAD PLAN

SEE SITE PLAN FOR LOCATION
SCALE N.T.S



NOTES:

1. 4,000 PSI CONCRETE WITH 6% AIR ENTRAINMENT
2. ASTM A-615, 60,000 PSI REINFORCING STEEL
3. ASTM A-185 WELDED WIRE FABRIC
4. PROVIDE A SMOOTH BROOM FINISH
5. PROVIDE #2/0 FROM UNCOATED REBAR TO GROUND RING ON OPPOSITE CORNERS OF THE EQUIPMENT PAD - SEE GROUND RING DETAIL 3/ES-1.

2 E-1 ENCLOSURE PAD DETAIL
NTS

ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
A	AMPERES
AC	ALTERNATING CURRENT (60 HZ)
A/C	AIR CONDITIONING
ADA	AMERICANS WITH DISABILITIES ACT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFFV	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BF	BALLAST FACTOR
BR	BRANCH
C	CONDUIT
CB	CIRCUIT BREAKER
CIR	CIRCUIT
CLG	CEILING MOUNTED
CT	CURRENT TRANSFORMER
CU	COPPER
D	DISHWASHER
DISC	DISCONNECT
DW	DISHWASHER
DWG	DRAWING
DWU	DISTILLED WATER UNIT
E	EXISTING TO REMAIN
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EXISTR	EXISTING EQUIPMENT TO REMAIN
FDR	FEEDER
FL	FLOOR
FT	FEET
GFCI/GFI	GROUND-FAULT CIRCUIT-INTERRUPTER
GFE	GROUND-FAULT CIRCUIT EQUIPMENT BREAKER
GFP	GROUND-FAULT PROTECTION
GRD	GROUND
H	HEAT DETECTOR
HD	HAND-HOLE
HP	HORSEPOWER
IG	INSULATED GROUND
IM	ICE MAKER
IMP	IMPEDANCE
IN	INCHES
J	JUNCTION
KA	KILO AMPERE
Kcmils	THOUSAND CIRCUIT MILLS
KV	KILOVOLT
KW	KILO VOLT-AMPERE
lm	KILOWATT
LP	LIGHTING PANELBOARD
LTG	LIGHTING
M	METER
MC	MOTOR CONTROLLER
MCB	MAIN CIRCUIT BREAKER
MCC/MCB	MOLDED CASE CIRCUIT BREAKER
MCS	MOTOR-CIRCUIT SWITCH
MDP	MAIN DISTRIBUTION PANELBOARD
MH	MANHOLE
MLO	MAIN LUG ONLY
MW	MICROWAVE OVEN
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOC.
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NEUT	NEUTRAL
NF	NONFUSED
NIC	NOT IN CONTRACT
NL	NEW LOCATION OF RELOCATED ITEM
N.T.S.	NOT TO SCALE
OC	OVERCURRENT
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PC	PHOTO CELL
PH	PHASE
PNL	PANELBOARD
PRI	PRIMARY
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PWR	POWER
R	REMAIN
RE	REMOVE EXISTING ITEM
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL CONDUIT
RL	RELOCATE EXISTING ITEM
RM	ROOM
RNC	RIGID NONMETALLIC CONDUIT
REF	REFRIGERATOR
RSC	RIGID STEEL CONDUIT
S	SMOKE DETECTOR
SC	SERVICE CONDUCTORS
SCHD	SCHEDULE
SCR	SHORT-CIRCUIT RATING
SD	SERVICE DROP
SE	SERVICE EQUIPMENT
SEC	SECONDARY
ST	STUNT TRIP
SURF	SURFACE
SV	SOLENOID VALVE
SW	SWITCH
SYM	SYMMETRICAL
SYMB	SYMBOL
TC	TIME CONTROLLER
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
U.O.N.	UNLESS OTHERWISE NOTED
UTIL	UTILITY
UVR	UNDER VOLTAGE RELEASE
V	VOLTS
VA	VOLT-AMPERES
W	WATTS
WG	WIRE GUARD
WP	WALL PHONE OR WEATHERPROOF
Wt	WEIGHT IN POUNDS
WT	WATERTIGHT
X	REMOVE
XFMR	TRANSFORMER
%	PERCENT
#	NUMBER
'	FEET
"	INCHES

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PROGRESS ISSUE:

1	CONSTRUCTION DOCUMENTS	03/28/2022

KEYPLAN:

SCALE: AS NOTED

SEAL:

SHEET TITLE:

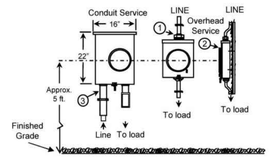
ELECTRICAL SCHEDULES, NOTES AND ABBREVIATIONS

SHEET NUMBER:

E-1

REF. NO. 4783

FIGURE 10
Self-Contained Meter Socket Sequence and Mounting Arrangement



1. Weatherproof joint with removable or non-removable hub.
2. Socket shall be mounted plumb. On clapboard shingle siding, socket shall be located on the high point of two clapboards.
3. Slip joint for conduit service shall be installed on left side of meter socket only.

Notes:

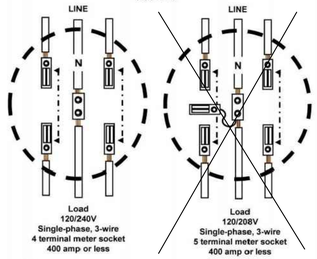
A. All network and 480Y/277 volt services will require a main disconnect ahead of the meter (cold sequence).

B. Self-contained meter sockets are required for:
- Single-phase 120/240 volt, 400 amp service entrance capacity or less.
- Single-phase 120/208 volt, 400 amp service entrance capacity or less.
- Three-phase 400 amp service entrance capacity or less.

C. All equipment (except meter) furnished, installed, owned and maintained by you.

D. Bond at service equipment in accordance with NEC Article 250. The grounding electrode conductor connection shall be made at an accessible location in the service equipment and not in the meter socket. The grounding electrode conductor shall not be run through the meter socket. For Cold Sequenced service see p 39 Section 8.E.1a,

FIGURE 17
Single-Phase: Self-Contained Metering Connections (Typical)



Notes:

A. An approved lever operated manual bypass is required on sockets for all commercial/industrial and residential services, 100 amp may be supplied with non-locking jaws, greater than 100 amp must be supplied with locking jaw.

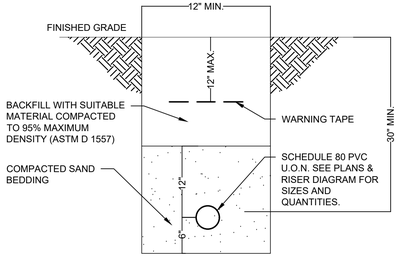
B. When the fifth terminal kit is used, install a No. 12 copper conductor, with white insulation, between the fifth jaw in the 9 o'clock position and the neutral lug/bar.

C. ~~For the Underground manhole areas of Hartford:~~ Any new or upgraded service (200 amps or less) in this city, must have a 5 terminal meter socket installed from 1-120/240V service.

D. ~~A five terminal meter socket is acceptable for a 120/240 volt service.~~

1 E-2 EVERSOURCE REVENUE METER DETAILS

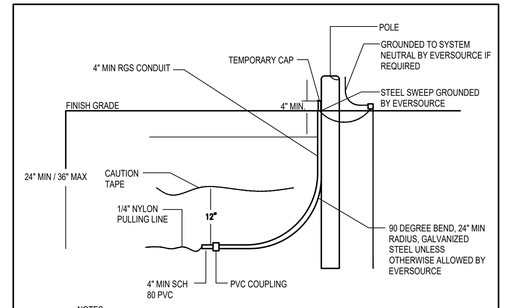
SCALE: N.T.S.



NOTES:
1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION. THE TRENCH SHALL BE BACKFILLED IMMEDIATELY FOLLOWING PLACEMENT OF OTHER CONDUITS.
2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

2 E-2 BRANCH CIRCUIT TRENCH DETAIL

SCALE: N.T.S.



NOTES:
1. PROVIDE AND INSTALL A GALVANIZED STEEL SWEEP AND CONDUIT WITH CAP AT THE RISER POLE. THE SWEEP SHALL BE A 90 DEGREE BEND WITH A MINIMUM OF 24" RADIUS.
2. PROVIDE A 1/4" DIAMETER NYLON PULLING LINE FROM THE CONDUIT AT THE RISER POLE TO THE NEXT POINT OF TERMINATION.
3. EVERSOURCE SHALL PROVIDE AND INSTALL GROUND ASSEMBLY AT THE STEEL SWEEP AT THE CUSTOMER'S SERVICE ENTRANCE. THE GROUND ASSEMBLY SHALL CONSIST OF A GROUND CLAMP SUITABLE FOR DIRECT BURIAL, NO. 6 BARE COPPER WIRE, A GROUND ROD CONNECTOR AND 5/8" BY 8' GROUND ROD.
4. PROVIDE SUITABLE BACKFILL (NO ROCKS)
5. ALL WORK SHALL BE INSPECTED BY THE LOCAL MUNICIPAL AUTHORITY PRIOR TO BACKFILLING.
6. ELECTRICAL SERVICE SWEEPS SHALL BE LOCATED ON THE POLE SIDE AWAY FROM ONCOMING TRAFFIC. COORDINATE EXACT LOCATION OF SWEEP WITH EVERSOURCE IN ADVANCE.
7. PROVIDE AND INSTALL CAUTION TAPE IN THE TRENCH

3 E-2 EVERSOURCE POLE RISER/SWEEP DETAIL

SCALE: N.T.S.

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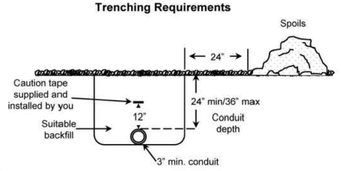
KEYPLAN:

FIGURE 9
Trenching Requirements

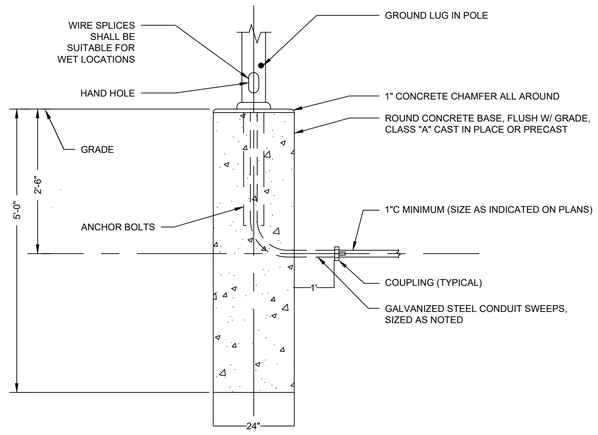


Notes:

A. OSHA standards require that spoils shall be placed 24" from edge of trench.
B. Suitable backfill shall not contain ash, cinder, shell, frozen material, loose debris or stones larger than 2" max. dimension.
C. All Electrical grade Schedule 40 PVC conduit will be listed and labeled for Direct Buried and above ground use.
D. **Horizontal Clearance** - shall be 12 inches minimum or more as necessary to permit access for maintenance of all facilities without damage to the others. This includes private wiring. Fuel (Gas and Oil) and Water Lines shall be no closer than 18 inches in all directions.
Vertical Crossing Clearance - shall be so constructed and supported that upper facility will not transfer harmful load onto any lower facility. There shall be adequate vertical clearance to permit access for maintenance of all facilities without damage to the others. In general, 12 inches is considered adequate separation, but the parties involved may agree to a lesser separation. Fuel (Gas and Oil) and Water Lines shall be no closer than 18 inches in all directions.
E. You will provide and install the caution tape which meets the requirements of Section 16-345-3 of the Regulations of Connecticut State Agencies. The tape shall be red polyethylene, 6" wide X 4 mils thick with black lettering of a minimum letter size of 120 Helvetica Light. It shall contain the following continuous printed warning:
"Caution - Electric Line Buried Below"
Metallic Foil tape is NOT acceptable.
F. All conduit shall be inspected by the local municipal authority prior to backfilling.

4 E-2 EVERSOURCE TRENCH REQUIREMENTS

SCALE: N.T.S.

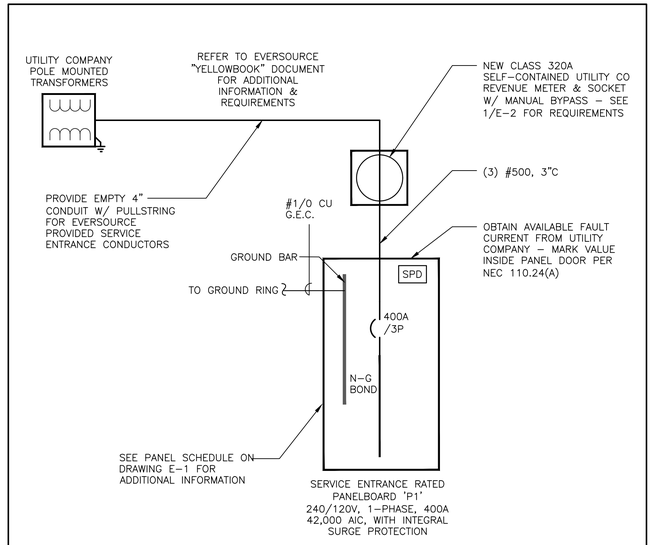


DETAIL NOTES:

1. CONTRACTOR SHALL CHECK AND VERIFY ALL ANCHOR BOLT DIMENSIONS, SIZE OF BOLT CIRCLE, ETC. WITH THE POLE MANUFACTURER PRIOR TO INSTALLATION OF THE POLE BASES.
2. CHAMFER ALL EXPOSED EDGES OF THE POLE BASES.
3. PROVIDE INSULATED GROUNDING BUSHING ON EXPOSED END OF ALL GALVANIZED STEEL BENDS IN BASE OF POLE.
4. LIGHT BASE MAY BE CAST IN PLACE OR PRECAST.

5 E-2 LIGHT POLE FOUNDATION DETAIL

SCALE: N.T.S.



6 E-2 PROPOSED/NEW WORK ONE-LINE DIAGRAM

SCALE: N.T.S.

SCALE: AS NOTED

SEAL:

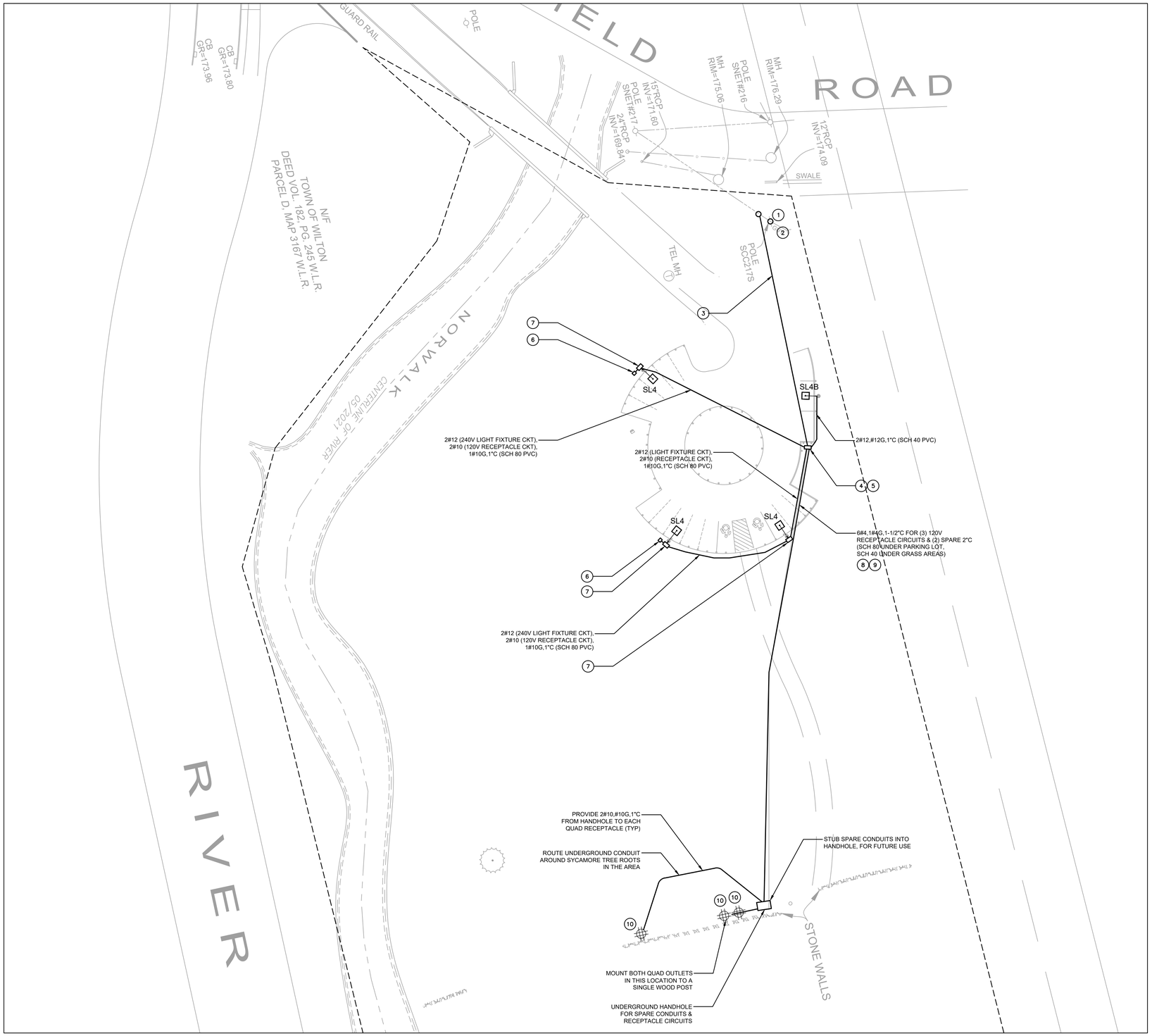
SHEET TITLE:

ELECTRICAL DETAILS

SHEET NUMBER:

E-2

REF. NO. 4783



1 / E-3 ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"

NEW WORK KEY NOTES (#)

1. EXISTING UTILITY POLE SCC217S, TO REMAIN.
2. NEW UTILITY POLE, POLE MOUNTED TRANSFORMERS GUY WIRING AND CONDUIT BOND ARE TO BE PROVIDED BY EVERSOURCE, ON A BILLABLE BASIS. TOWN OF WILTON WILL PAY ANY UTILITY FEES. SEE UTILITY COMPANY CONTACT INFO AND WORK REQUEST NUMBER REFERENCE ON THIS DRAWING. SUBMIT NEW SERVICE REQUEST TO EVERSOURCE AND COORDINATE WORK. SEE UTILITY POLE RGS CONDUIT SWEEP DETAIL 3/E-2 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. EXACT LOCATION OF POLE T.B.D. BY EVERSOURCE IN THE FIELD.
3. PROVIDE 4" SCH 80 UNDERGROUND SERVICE ENTRANCE CONDUIT FROM NEW UTILITY POLE TO A NEW UTILITY METER LOCATED AT THE NEW PAD MOUNTED ELECTRICAL ENCLOSURE. SERVICE ENTRANCE WIRING WILL BE PROVIDED BY EVERSOURCE. PROVIDE RGS SWEEPS ON BOTH ENDS. BOND SWEEP ON THE METER END OF THE CONDUIT. EVERSOURCE WILL BOND THE UTILITY POLE END. SEE EVERSOURCE TRENCH REQUIREMENT DETAIL 4/E-2 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. PROVIDE A CLASS 320A SELF-CONTAINED EVERSOURCE METER SOCKET (HOT SEQUENCE) PEDESTAL MOUNTED PER EVERSOURCE REQUIREMENTS. IF EVERSOURCE ALLOWS, SOCKET MAY BE MOUNTED TO THE SIDE OF THE NEW PAD MOUNTED ENCLOSURE. SEE EVERSOURCE METER DETAIL 1/E-2 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE A LOCKABLE, WEATHERPROOF, VENTILATED, PAD MOUNTED NEMA 3R ENCLOSURE IN THIS LOCATION. ENCLOSURE SHALL CONTAIN THE NEW SERVICE PANEL 'P1', SITE LIGHTING TIMECLOCK, ON/OFF SWITCHES, ENCLOSURE HEATER AND AN ENCLOSURE MOUNTED RECEPTACLE. SEE DETAILS 1/E-1, 2/E-1 & 6/E-2 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
6. PROVIDE AN OUTDOOR POWER PEDESTAL (LEGRAND XPP2G30C-BK OR EQUAL) WITH LOCKABLE IN-USE COVER & TWO WEATHER RESISTANT USB GFCI DUPLEX RECEPTACLES IN THIS LOCATION, FED FROM CKT #2,P1, THROUGH THE ADJACENT HANDHOLE.
7. PROVIDE AN UNDERGROUND HANDHOLE ADJACENT TO THE LIGHT POLE FOR THE SITE LIGHTING CIRCUIT AND POLE MOUNTED RECEPTACLE CIRCUIT IN LIEU OF AN EXTERNAL SPLICE BOX MOUNTED TO THE LIGHT POLE. PROVIDE AN UNDERGROUND FEED (2#12,#12G,1"C) FROM THE HANDHOLE TO THE ADJACENT POLE MOUNTED LIGHT FIXTURE AND A SEPARATE UNDERGROUND FEED (2#10,#10G,1"C) FROM THE HANDHOLE TO THE ADJACENT POWER PEDESTAL (WHERE APPLICABLE).
8. PROVIDE (2) SPARE 2" CONDUITS WITH PULLSTRINGS UNDERGROUND FROM THE PAD MOUNTED ELECTRICAL ENCLOSURE TO THE FUTURE BANDSHELL LOCATION.
9. PROVIDE THREE 120V CIRCUITS (WIRE & CONDUIT SIZE AS INDICATED) IN A SINGLE CONDUIT FROM THE PAD MOUNTED ELECTRICAL ENCLOSURE TO AN UNDERGROUND HANDHOLE / SPLICE BOX LOCATED AT THE EXISTING STONE WALL.
10. PROVIDE (3) DEDICATED WEATHERPROOF GFI QUADRUPLEX RECEPTACLES WITH LOCKABLE IN-USE COVERS, MOUNTED TO WOOD POSTS AT THE NORTH FACE OF THE STONE WALL IN THIS AREA. PROVIDE ONE DEDICATED 120V CIRCUIT (WIRE & CONDUIT SIZE AS INDICATED) TO EACH RECEPTACLE, FROM THE THREE DEDICATED 120V CIRCUITS LOCATED AT THE UNDERGROUND HANDHOLE ADJACENT TO THE STONE WALL. CONDUITS FROM HANDHOLE TO RECEPTACLES SHALL BE RUN UNDERGROUND AND STUBBED UP AT THE RECEPTACLE POSTS. MOUNT RECEPTACLES AT 24" ABOVE GRADE.

UTILITY CONTACT INFO

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WORK REQUEST #7595935

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PROJECT:

SCHENK'S ISLAND PRESERVE

PHASE 1: IMPROVEMENTS PARK ENTRY & PARKING

OWNER / CLIENT:

TOWN OF WILTON
238 DANBURY ROAD WILTON, CT

ELECTRICAL ENGINEER:

SG ENGINEERING LLC
56 FOXCROFT COURT SOUTHINGTON, CT

PROGRESS ISSUE:

1	*CONSTRUCTION DOCUMENTS*	*03/28/2022*

KEYPLAN:

SCALE: AS NOTED

SEAL:

NORTH

SHEET TITLE:

SITE ELECTRICAL PLAN

SHEET NUMBER:

E-3

REF. NO. 4783