
CONSTRUCTION – PHASE 2

**NEW CENTER FOR EMERGENCY SERVICES
25 ROCKY HOLLOW ROAD
NORTH STONINGTON, CT 06359**

S/P+A PROJECT NO. 13.220

DATE: July 29, 2015

The following changes to the Drawings and Project Specifications shall become a part of the Drawings and Project Specifications; superseding previously issued Drawings and Project Specifications to the extent modified by Addendum No. 4.

General Information:

- See attached RFIs. (10)
- See attached Substitution Requests. (2)

Changes to the Addenda:

- Addendum #2, New Drawings, DRAWING SK-C3-001, LEDGE TEST BORING LOCATION PLAN has been deleted in its entirety. A new DRAWING SK-C3-001, LEDGE TEST BORING LOCATION PLAN has been added and is attached as part of this addendum.

New Specifications:

- SECTION 012200, UNIT PRICES has been added and is attached as part of this addendum. (1)
- SECTION 264113, LIGHTNING PROTECTION FOR FIXTURES has been added and is attached as part of this addendum. (4)

Changes to the Specifications:

- TABLE OF CONTENTS:
 - Page 1, Division 1 – General Requirements, add the following:

“Section 012200 Unit Prices	1”
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 - Page 5, Division 26 – Electrical, add the following:

“Section 264113 Lightning Protection for Fixtures	4”
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- BID FORM has been deleted in its entirety. A new BID FORM has been added and is attached as part of this addendum. (3)

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- SECTION 033000, CAST-IN-PLACE CONCRETE:
 - Page 1:
 - Article 1.2.B.1., revise “Division 2 Section “Earthwork”” to read “Section 312000 “Earth Moving””.
 - Article 1.2.B.2., revise “Division 2 Section “Cement Concrete Pavement”” to read “Section 321314 “Site Cast-In-Place Concrete””.
 - Article 1.2.B.3., delete in its entirety.
 - Page 2, Article 1.4.G.8., delete in its entirety.
 - Page 5, Article 2.4.K., delete in its entirety.
 - Page 6, Article 2.7, delete in its entirety.
 - Page 8, Article 2.11.A.2., delete in its entirety.
 - Page 16, Article 3.11.D., delete in its entirety.
 - Page 17, Article 3.13, delete in its entirety.
 - Page 20:
 - Article 3.16.C.4., delete “ASTM C 173, volumetric method, for structural lightweight concrete;” in its entirety.
 - Article 3.16.C.6., delete in its entirety.
 - SECTION 083613, SECTIONAL DOORS:
 - Page 3, Article 2.3.A.1.a., revise “**Thermacore 599**” to read “**Thermacore 596**”.
 - Page 8, Article 2.10.F.2.a., revise “Four-wire” to read “Two-wire”.
 - SECTION 101400, SIGNAGE:
 - Page 1:
 - Article 1.2.A.3., delete in its entirety.
 - Article 1.3.C.3., delete in its entirety.
 - Page 3:
 - Article 2.2.C., delete in its entirety.
 - Article 2.3.A., delete in its entirety.
 - Page 4, Article 2.3.D.1.c.3), revise “Wallingford Fire Station” to read “North Stonington Center for Emergency Services”.
 - Page 5:
 - Article 2.5, delete in its entirety.
 - Article 2.7.B., delete in its entirety.
 - Page 7, Article 3.2.D., delete in its entirety.
-

New Drawings:

DRAWING SK-C3-001, LEDGE TEST BORING LOCATION PLAN has been added and is attached as part of this addendum.

Changes to the Drawings:

- DRAWING C6, GENERAL DETAILS, Vehicle Barrier Gate 1, revise “powder coat – black” to read “mill finish”.
- DRAWING A7.4, INTERIOR ELEVATIONS, Work Room – C 3, delete Detail Tag 2/A7.5, “finished end panel; PL-2” with graphic and bracket graphic in their entirety.
- DRAWING S001, STRUCTURAL NOTES (BASE BID), Design Loads, add the following:
 - “7. GC is responsible for coordinating seismic loads from mechanical and electrical components with the PMBM so the structure is designed to handle said collateral loading(s)”
- DRAWINGS S100, FOUNDATION PLAN (BASE BID) and S100A, FOUNDATION PLAN (ALT BID #1), revise “200 PCI” to read “100 PSI” in all instances.

The bid date remains Tuesday, August 4, 2015 at 12:00pm by this addendum.

The addendum consists of twenty-three (23) pages of 8½” x 11” text and one (1) 24” x 36” drawing.
End of Addendum ‘4’

Rebecca Bouchard

From: Rebecca Bouchard
Sent: Friday, July 24, 2015 11:25 AM
To: 'wef@gardnercis.com'
Subject: RE: Emergency Services Center bid postponement

Good morning Bill.
There will be no additional prebid meeting.
Thank you and good luck.

Rebecca Bouchard, CSI, CDT
Specifications Writer

www.silverpetrucelli.com

SILVER / **PETRUCELLI + ASSOCIATES**
Architects/Engineers/Interior Designers

3190 Whitney Avenue Bldg 2
Hamden, Connecticut 06518
P: 203-230-9007 ext. 202
F: 203-230-8247

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From: Bill Fountain [<mailto:wef@gardnercis.com>]
Sent: Thursday, July 23, 2015 3:28 PM
To: Robin Roohr
Subject: Emergency Services Center bid postponement

Will there be an additional pre-bid scheduled?

Bill Fountain
President
Gardner Construction & Industrial Services Inc.
47 Olivine St.
Chicopee MA 01013
413 535 1500
Cell 413 348 7081

Rebecca Bouchard

From: Rebecca Bouchard
Sent: Tuesday, July 28, 2015 8:15 AM
To: 'ksommers@garsanct.com'
Subject: RE: Emer. Serv. N Stonington ct

Good morning Kevin.
 Please see the response to your RFI below.
 Thank you and good luck.

Rebecca Bouchard, CSI, CDT
 Specifications Writer

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From: Kevin Sommers [ksommers@garsanct.com]
Sent: Monday, July 20, 2015 3:10 PM
To: Kati Murphy
Subject: FW: Emer. Serv. N Stonington ct

I don't recall seeing a date when all questions need to be in. If question period is still open, please see below....

Drawing A1.1 notes alternate # 3 which is the deletion of one apparatus bay , but the drawings do not remove the bollards. Is this correct or should I have a credit for the 4 bollards ?

Alternate #3 shall include a credit for (4) bollards to be removed.

Kevin Sommers



Garsan Construction, Inc.
 1120 South Broad Street
 Wallingford, CT 06492
 Tel: 203-678-4030
 Fax: 203-678-4136
 Cell: 860-794-9222

Garsan Construction is an Affirmative Action/Equal Opportunity Employer

Rebecca Bouchard

From: Rebecca Bouchard
Sent: Tuesday, July 28, 2015 9:26 AM
To: 'JUryase@larosabg.com'
Subject: RE: North Stonington New Center for Emergency Services - RFI

Good morning James.
Specification will be included in a forthcoming addendum.
Thank you and good luck.

Rebecca Bouchard, CSI, CDT
Specifications Writer

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From: James Uryase [JUryase@larosabg.com]
Sent: Wednesday, July 22, 2015 2:11 PM
To: Kati Murphy
Subject: North Stonington New Center for Emergency Services - RFI

Hi Kati,
Drawing E301 one line diagram calls for grounding to a lightning protection system. Also, drawing E201 calls for the building to be provided with a lightning protection system and indicates to refer to spec section 264113. However, this spec section does not appear to be in the project manual. If we are to provide a lightning protection system, please provide specs and a drawing for this system.
Thank you,

Rebecca Bouchard

From: Rebecca Bouchard
Sent: Tuesday, July 28, 2015 10:39 AM
To: 'MGarneau@wjmountford.com'
Subject: RE: North Stonington Emergency Services RFI

Good morning Mike.
 Please see below responses to your RFI.
 Thank you and good luck.

Rebecca Bouchard, CSI, CDT
 Specifications Writer

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Begin forwarded message:

From: Mike Garneau <MGarneau@wjmountford.com>
Date: July 21, 2015 at 9:11:37 AM EDT
To: "peter.springsteel@snet.net" <peter.springsteel@snet.net>, "David Stein (dstein@silverpetrucelli.com)" <dstein@silverpetrucelli.com>
Cc: "Kati Murphy (kMurphy@northstoningtonct.gov)" <kMurphy@northstoningtonct.gov>, Mike Garneau <MGarneau@wjmountford.com>
Subject: North Stonington Emergency Services RFI

- 1) Drawing S100 calls for 2 inch, 200 PCI rigid insulation under Apparatus bay slab. Spec 072100-2.1 calls for 100 psi under Apparatus bay slab. Is 200 PCI a misprint? **–Yes this is a misprint. Insulation shall be as stated in the Section 072100.**
- 2) What is the PSI of the 2 inch rigid insulation that runs vertically on the foundation walls? **–40 psi as indicated in Section 072100 and modified in Addendum #2.**
- 3) Detail 4/A6.0 shows CMU in the background at the mechanical level up to the roof. Please confirm this is incorrect. **–Yes this is incorrect. CMU at the Apparatus Bay Support Spaces (Rooms 151, 152, 154, 155 & 156) is to stop at underside of platform above. Elevation 10'-0".**

Thank You.
Mike Garneau
 Project Manager
 W. J. Mountford Co.
 P 860-291-9448 x 124
 F 860-289-6382

Rebecca Bouchard

From: Rebecca Bouchard
Sent: Wednesday, July 29, 2015 10:25 AM
To: 'JUryase@larosabg.com'
Subject: RE: North Stonington New Emergency Services Center - RFI

Good morning James.

In response to your RFI below, please refer to *Structural Drawings* for locations and requirements of exterior wall bracing. Note 1/S101 and Note 1/S102.

Thank you and good luck.

Rebecca Bouchard, CSI, CDT
Specifications Writer

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From: James Uryase [JUryase@larosabg.com]
Sent: Thursday, July 23, 2015 5:04 PM
To: Kati Murphy
Subject: North Stonington New Emergency Services Center - RFI

Hi Kati,
The architectural drawings do not show provisions for wind bracing on the side walls of the metal building. Please advise if wind bracing is required on side walls.
Thank you,



11 Business Park Drive
Branford, CT 06405
Tel (203) 483-8209
Fax (203) 483-7045

Email – tom@pacesetterconstruction.com
Website – www.pacesetterconstruction.com

Butler Points

July 27th 2015

RFI

Changes to accommodate Butler Building
New Center for Emergency Services
25 Rocky Hollow Road
North Stonington 06359

Pacesetter Construction with the assistance and review of Butler Manufacturing in regards to the Architectural drawings provided by Silver / Petrucelli & Associates dated 6/15/15 recommend the following.

In order to maintain specifications conducive to a Butler Building the front end wall has been changed to 123' - 6" and the rear end wall to 83' and both sidewalls to 203' - 6" this is to allow Butler pre-punched secondary framing that falls on the 3" mark. In order for that to work we had to slightly change the building perimeter as shown in our provided drawing. Please note we have marked the bay spacing according for the same reason hence the slight change to the overall dimension. **IF adjustments to building layout are required by building manufacturer, it shall be the responsibility of the contractor to revise layout and provide an updated set of plans to the Owner and Architect for review. All coordination due to alterations will be the responsibility of the contractor.**

We are doing away with the structural steel framing that ties in both buildings due to the fact that such an application would void the warranty by Butler and any other manufacturer of buildings involved. We have indicated on drawing where three additional columns will be located. **The structural frame shall be bid as designed, and the Contractor shall provide the required warranty. If the required warranty is not feasible, the Contractor(s) shall stipulate this condition at the time of bid.**

C. Nardi 07.29.15

ENTERPRISE

BUILDERS

REQUEST FOR INFORMATION

To:	Ms. Karen Murphy (kmurphy@northstoningtonct.gov)	Date: July 27, 2015
Co:	Silver/Petrucci + Associates, Inc.	
Project:	North Stonington Center for Emergency Services	
From:	Brian Baril – Enterprise Builders, Inc. (direct 860-466-5128)	
RE:	EBI-RFI #2	

Please respond to the following questions regarding the above named project as soon as possible:

Division 2:

1. Site access gates are not available in powder coated; they are available in aluminum mill finish. Please confirm this is acceptable. **Yes, mill finish is acceptable.**

Division 6:

1. Is a plastic laminate counter required at detail 3/A7.4? **No, countertop is not required at this elevation.**

Division 8:

1. 20-gauge outside skin is not available in the Thermacore 599 series sectional doors. Please confirm if 20-gauge is required. **Yes, please provide Thermacore 596 series to obtain required gauge**
2. Overhead doors are asking for a 115 MPH wind load; wind loading cannot be added to a door that has more than one row of windows. Please confirm if two rows of windows should be removed. **Overhead door manufacturer is to meet design intent of the bid documents while meeting or exceeding minimum code requirements for wind loading.**
3. Slotted safety track cannot be added if the doors are wind loaded. Please confirm if slotted safety track should be removed. **If slotted safety track is not compatible with wind loaded doors, it shall be removed.**

Division 10:

1. Reference specification section 101400, Sections 2.4 and 2.5. Please confirm if the dimensional letters and vinyl characters are to be provided in this project. **Please refer to Addendum #2 for dimensional letters. There are no vinyl characters in the scope of this project.**
2. What is the small wall-mounted item next to the sinks in Toilet Rooms 120/121? **Electric hand dryers, refer to Addendum #2.**
3. Confirm which toilet dispenser should be provided at private bathrooms. **Please refer to Addendum #2.**

Division 13:

1. What is the lateral loading for lighting and ductwork, or has it been accounted for? **GC is responsible for coordinating seismic loads from mechanical and electrical components with the PMBM so the structure is designed to handle said collateral loading(s.)**
2. Are solar panels being considered for future installation? If so, should their weights be accounted for in roof loading? **Please refer to S001 'Design Loads' – Item #1.**
3. Per a Butler installer, Butler is recommending the following building modifications. Please review and advise:
 - a. In order to maintain specifications conducive to a Butler Building the front end wall has been changed to 123' - 6" and the rear end wall to 83' and both sidewalls to 203' - 6" this is to allow Butler pre-punched secondary framing that falls on the 3" mark. In order for that to work we had to slightly change the building perimeter as shown in our provided drawing. Please note we have marked the bay spacing according for the same reason hence the slight change to the overall dimension. **IF adjustments to building layout are required by building manufacturer, it shall be the responsibility of the contractor to revise layout and provide an**

updated set of plans to the Owner and Architect for review. All coordination due to alterations will be the responsibility of the contractor.

- b. We are doing away with the structural steel framing that ties in both buildings due to the fact that such an application would void the warranty by Butler and any other manufacturer of buildings involved. We have indicated on drawing where three additional columns will be located.

The structural frame shall be bid as designed, and the Contractor shall provide the required warranty. If the required warranty is not feasible, the Contractor(s) shall stipulate this condition at the time of bid.

Division 15:

1. Are ceiling fans to be provided in standard white color? **Yes.**

C. Nardi/S. Erricson 07.29.15

Rebecca Bouchard

From: Rebecca Bouchard
Sent: Wednesday, July 29, 2015 3:17 PM
To: 'dan@totalinteriorsllc.com'
Subject: RE: RFI request - North Stonington Center For Emergency Services

Good afternoon Dan.
 Please see below for responses to your RFI.
 Thank you and good luck.

Rebecca Bouchard, CSI, CDT
 Specifications Writer

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From: Dan Smith [dan@totalinteriorsllc.com]
Sent: Thursday, July 23, 2015 11:57 AM
To: Kati Murphy
Subject: FW: RFI request - North Stonington Center For Emergency Services

Kati,
 Please see the below RFI from my OHD contractor.
 Dan Smith
 Project Manager

**Total
 Interiors LLC**
 2290 Foxon Road
 North Branford, CT 06471
 Phone 203-488-4602
 Cell 203-537-5047
 Fax 203-488-1056

From: Holly Barrows [<mailto:HBarrows@ohdct.com>]
Sent: Thursday, July 23, 2015 11:18 AM
To: Dan Smith
Cc: Mark LePage
Subject: RFI request - North Stonington Center For Emergency Services

- SECTION 083613-4, PARAGRAPH M. 1 ONLY COLOR AVAILABLE FOR THE DOOR SERIES SPECIFIED IS STANDARD WHITE. PLEASE CONFIRM
Specification revised to Thermacore 596 series.

- THE 599 SERIES WAS QUOTED PER SPEC BUT THE SPEC IS ALSO ASKING FOR A 20GA OUTSIDE SKIN AND THIS IS NOT AVAILABLE IN THIS SERIES. PLEASE CONFIRM

Specification revised to Thermacore 596 series.

- THE DOORS ARE ASKING FOR A WINDLOAD 115 MPH WITH A 3 SECOND GUST. CANNOT ADD WINDLOADING TO A DOOR THAT HAS MORE THAN ONE ROW OF WINDOWS IN THEM. IN THIS CASE THESE DOORS HAVE THREE ROWS. WE ALSO CANNOT ADD SLOTTED SAFETY TRACK IF THE DOORS ARE WIND LOADED. TO WIND LOAD THESE DOOR TWO ROWS OF GLASS WOULD HAVE TO BE REMOVED. PLEASE CONFIRM

See response in to RFI #14.

- SECTION 083613-4, PARAGRAPH L. 9A. OVERRIDE SWITCH NEEDS TO BE SUPPLIED BY OTHERS NOT OHD OF NORWICH

Electrical contractor shall furnish & install the switch to lock out the overhead door automatic close timer. This switch shall be provided with multiple contacts and associated wiring suitable for lockout of the close timer and for input to the HVAC controls to prevent operation of Apparatus Bay heaters.

- SECTION 083613-8, PARAGRAPH F. 2A. SELF MONITORING TYPE FOUR WIRE ELECTRIC EDGE IS NOT AVAILABLE. WE WILL BE SUPPLYING A 2 WIRE SELF MONITORING EDGE IN IT'S PLACE

Ok.

Thank You, Holly Barrows

Overhead Door Company of Norwich, Inc.

860-889-3848

www.ohdct.com

 Please consider the environment before printing this e-mail

 AA/EOE

Rebecca Bouchard

From: Rebecca Bouchard
Sent: Wednesday, July 29, 2015 2:03 PM
To: 'decraft@iselogik.com'
Subject: RE: RFI Emergency Services Center Phase 2 North Stonington, CT

Good afternoon Dean.
 Your substitution request has been approved.
 Thank you and good luck.

Rebecca Bouchard, CSI, CDT
 Specifications Writer

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Begin forwarded message:

From: "Dean Craft" <decraft@iselogik.com>
To: "info" <info@silverpetrucelli.com>
Cc: "Dean Craft (ISE Logik)" <decraft@iselogik.com>
Subject: RFI Emergency Services Center Phase 2 North Stonington, CT

To whom it may concern...

Dean Craft here from ISE Logik; I presented to Silver Petrucelli a few years ago in Hamden on the topic of concrete moisture and moisture vapor reduction admixtures.

I was hoping to chat with the lead in your office that is covering the North Stonington Emergency Services Center project.

The first attachment is the project 03 spec and states that an "approved equal" to Barrier One is acceptable; our MVRA 900 product meets/exceeds the specified requirements at a market price on average 20% less than the listed product.

From the first attachment, pp. 8 – 9:

2.11 CONCRETE MIXES

J. Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement.

MVRA 900 exceeds this requirement. MVRA 900 is made only with deionized water and introduces zero additional chlorides; MVRA 900 is the only MVRA product that assumes the extra expense of using only deionized water.

K. Admixtures: Use admixtures according to manufacturer's written instructions.

4. Use moisture vapor reduction admixture, Barrier One Admixture Systems or approved equal, for all slabs-on grade.

MVRA 900 meets all the performance and warranty characteristics of Barrier One.

MVRA 900 is the only other MVRA on the market that offers:

Standard lifetime warranty against concrete moisture related flooring failure

Standard adhesion warranty

All documentation on the MVRA 900 product and associated warranties are contained in the second attachment.

Product performance testing that meets/exceeds published ASTM D5084 testing limits of specified product is also provided in attachments 3 – 6; w/cm ratios from 0.41 up to 0.63 (0.63 w/cm would not be warranted yet is provided to clearly show that MVRA 900 has been over-engineered to cover the possibility that additional water might somehow make it into the mix after batching).

Please advise as to what else I can provide in regards to getting listed in your specification in general along with Barrier One; and in getting “approved equal” status for this project.

Sincerely,

Dean

Dean E. Craft

LtCol USMCR (ret.)

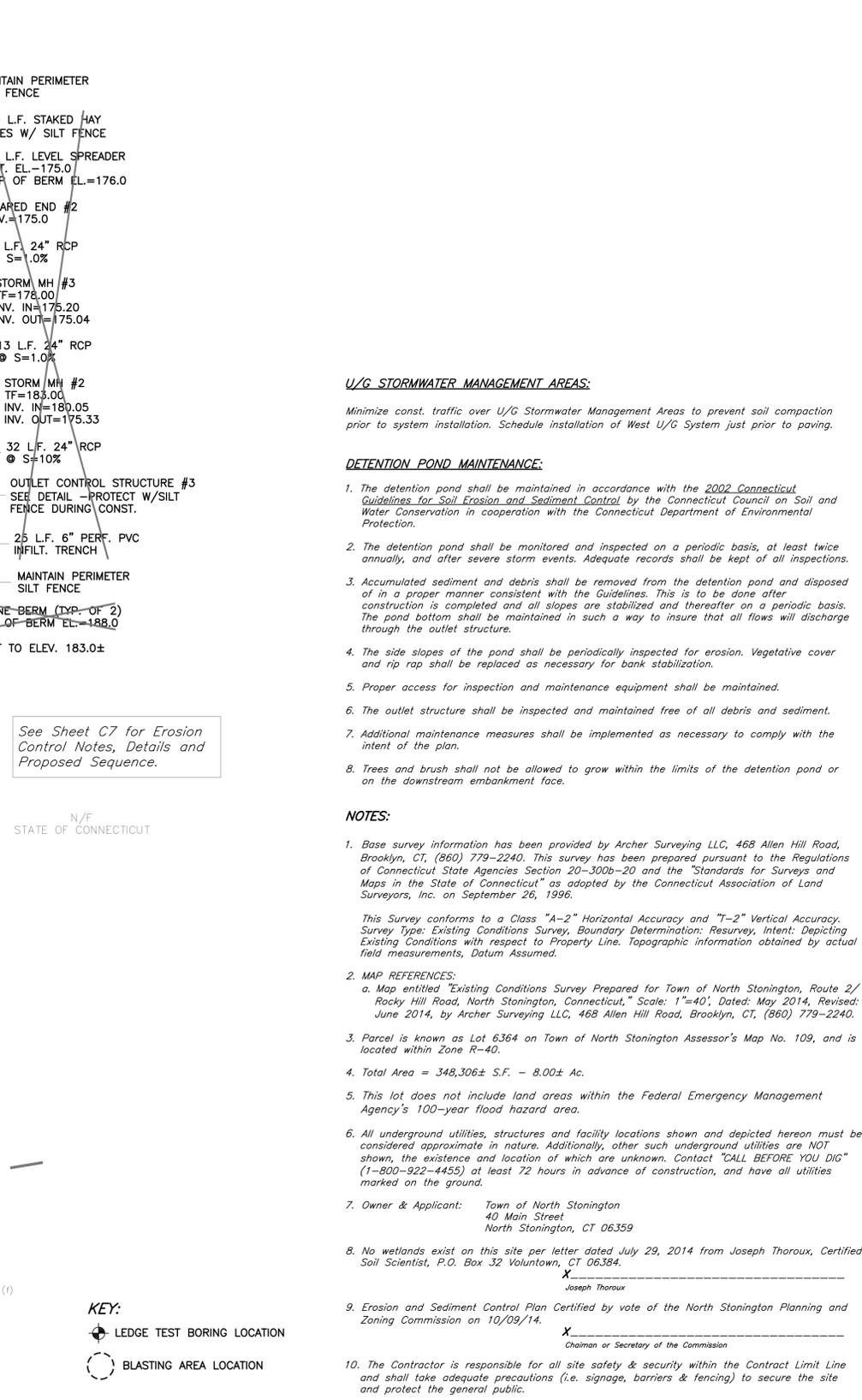
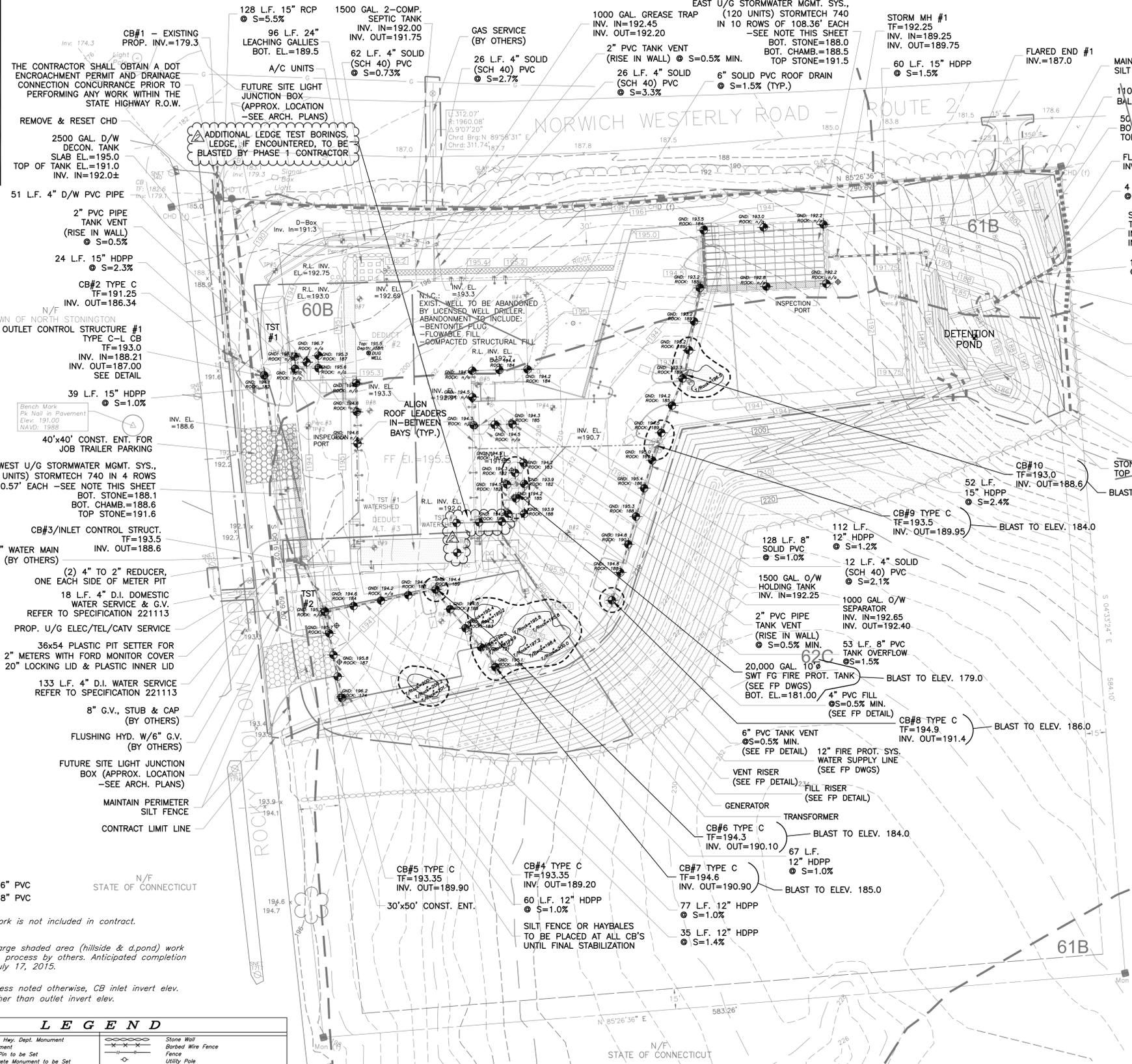
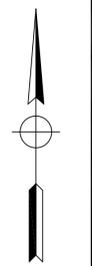
President & COO

ISE Logik Industries, Inc.

www.iselogik.com<<http://www.iselogik.com>>

P: 585.474.3553

W: 877.549.5159



THE CONTRACTOR SHALL OBTAIN A DOT ENCROACHMENT PERMIT AND DRAINAGE CONNECTION CONCURRENCE PRIOR TO PERFORMING ANY WORK WITHIN THE STATE HIGHWAY R.O.W.

REMOVE & RESET CHD

2500 GAL. D/W DECON. TANK
SLAB EL.=195.0
TOP OF TANK EL.=191.0
INV. IN=192.0±

51 L.F. 4" D/W PVC PIPE

2" PVC PIPE TANK VENT (RISE IN WALL) S=0.5%

24 L.F. 15" HDPP S=2.3%

CB#2 TYPE C
TF=191.25
INV. OUT=186.34

N/F TOWN OF NORTH STONINGTON

OUTLET CONTROL STRUCTURE #1
TYPE C-L CB
TF=193.0
INV. IN=188.21
INV. OUT=187.00
SEE DETAIL

39 L.F. 15" HDPP S=1.0%

40'x40' CONST. ENT. FOR JOB TRAILER PARKING

WEST U/G STORMWATER MGMT. SYS., (50 UNITS) STORMTECH 740 IN 4 ROWS OF 90.57' EACH -SEE NOTE THIS SHEET
BOT. STONE=188.1
BOT. CHAMB.=188.6
TOP STONE=191.6

CB#3/INLET CONTROL STRUCT. TF=193.5
INV. OUT=188.6

8" WATER MAIN (BY OTHERS)

(2) 4" to 2" REDUCER, ONE EACH SIDE OF METER PIT

18 L.F. 4" D.I. DOMESTIC WATER SERVICE & G.V. REFER TO SPECIFICATION 221113

PROP. U/G ELEC/TEL/CATV SERVICE

36x54 PLASTIC PIT SETTER FOR 2" METERS WITH FORD MONITOR COVER
20" LOCKING LID & PLASTIC INNER LID

133 L.F. 4" D.I. WATER SERVICE REFER TO SPECIFICATION 221113

8" G.V., STUB & CAP (BY OTHERS)

FLUSHING HYD. W/6" G.V. (BY OTHERS)

FUTURE SITE LIGHT JUNCTION BOX (APPROX. LOCATION -SEE ARCH. PLANS)

MAINTAIN PERIMETER SILT FENCE

CONTRACT LIMIT LINE

N/F STATE OF CONNECTICUT

6" PVC

8" PVC

Work is not included in contract.

Large shaded area (hillside & d.pond) work in process by others. Anticipated completion July 17, 2015.

NOTE: Unless noted otherwise, CB inlet invert elev. is 0.1' higher than outlet invert elev.

128 L.F. 15" RCP S=5.5%

96 L.F. 24" LEACHING GALLIES BOT. EL.=189.5

A/C UNITS

FUTURE SITE LIGHT JUNCTION BOX (APPROX. LOCATION -SEE ARCH. PLANS)

ADDITIONAL LEDGE TEST BORINGS, LEDGE, IF ENCOUNTERED, TO BE BLASTED BY PHASE-1 CONTRACTOR

1500 GAL. 2-COMP. SEPTIC TANK
INV. IN=192.00
INV. OUT=191.75

62 L.F. 4" SOLID (SCH 40) PVC S=0.73%

26 L.F. 4" SOLID (SCH 40) PVC S=2.7%

GAS SERVICE (BY OTHERS)

26 L.F. 4" SOLID (SCH 40) PVC S=2.7%

EAST U/G STORMWATER MGMT. SYS., (120 UNITS) STORMTECH 740 IN 10 ROWS OF 108.36' EACH -SEE NOTE THIS SHEET
BOT. STONE=188.0
BOT. CHAMB.=188.5
TOP STONE=191.5

2" PVC TANK VENT (RISE IN WALL) S=0.5% MIN.

26 L.F. 4" SOLID (SCH 40) PVC S=3.3%

6" SOLID PVC ROOF DRAIN S=1.5% (TYP.)

STORM MH #1
TF=192.25
INV. IN=189.25
INV. OUT=189.75

60 L.F. 15" HDPP S=1.5%

FLARED END #1
INV.=187.0

MAINTAIN PERIMETER SILT FENCE

110 L.F. STAKED HAY BALES W/ SILT FENCE

50 L.F. LEVEL SPREADER
BOT. EL.=175.0
TOP OF BERM EL.=176.0

FLARED END #2
INV.=175.0

4 L.F. 24" RCP S=1.0%

STORM MH #3
TF=173.00
INV. IN=175.20
INV. OUT=175.04

13 L.F. 24" RCP S=1.0%

STORM MH #2
TF=183.00
INV. IN=180.05
INV. OUT=175.33

32 L.F. 24" RCP S=10%

OUTLET CONTROL STRUCTURE #3
SEE DETAIL -PROTECT W/SILT FENCE DURING CONST.

25 L.F. 6" PERF. PVC INFILT. TRENCH

MAINTAIN PERIMETER SILT FENCE

STONE-BERM (TOP OF 2)
TOP OF BERM EL.=188.0

BLAST TO ELEV. 183.0±

52 L.F. 15" HDPP S=2.4%

CB#10
TF=193.0
INV. OUT=188.6

BLAST TO ELEV. 184.0

112 L.F. 12" HDPP S=1.2%

12 L.F. 4" SOLID (SCH 40) PVC S=2.1%

1500 GAL. O/W HOLDING TANK
INV. IN=192.25

2" PVC PIPE TANK VENT (RISE IN WALL) S=0.5% MIN.

1000 GAL. O/W SEPARATOR
INV. IN=192.65
INV. OUT=192.40

53 L.F. 8" PVC TANK OVERFLOW S=1.5%

20,000 GAL. 10" SWT FG FIRE PROT. TANK (SEE FP DWGS)
BOT. EL.=181.00

4" PVC FILL S=0.5% MIN. (SEE FP DETAIL)

6" PVC TANK VENT S=0.5% MIN. (SEE FP DETAIL)

12" FIRE PROT. SYS. WATER SUPPLY LINE (SEE FP DWGS)

VENT RISER (SEE FP DETAIL)

FILL RISER (SEE FP DETAIL)

GENERATOR

TRANSFORMER

CB#6 TYPE C
TF=194.3
INV. OUT=190.10

BLAST TO ELEV. 184.0

67 L.F. 12" HDPP S=1.0%

BLAST TO ELEV. 185.0

CB#7 TYPE C
TF=194.6
INV. OUT=190.90

77 L.F. 12" HDPP S=1.0%

35 L.F. 12" HDPP S=1.4%

CB#5 TYPE C
TF=193.35
INV. OUT=189.90

30'x50' CONST. ENT.

CB#4 TYPE C
TF=193.35
INV. OUT=189.20

60 L.F. 12" HDPP S=1.0%

SILT FENCE OR HAYBALES TO BE PLACED AT ALL CB'S UNTIL FINAL STABILIZATION

61B

61B

62C

N/F STATE OF CONNECTICUT

U/G STORMWATER MANAGEMENT AREAS:

Minimize const. traffic over U/G Stormwater Management Areas to prevent soil compaction prior to system installation. Schedule installation of West U/G System just prior to paving.

DETENTION POND MAINTENANCE:

- The detention pond shall be maintained in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control by the Connecticut Council on Soil and Water Conservation in cooperation with the Connecticut Department of Environmental Protection.
- The detention pond shall be monitored and inspected on a periodic basis, at least twice annually, and after severe storm events. Adequate records shall be kept of all inspections.
- Accumulated sediment and debris shall be removed from the detention pond and disposed of in a proper manner consistent with the Guidelines. This is to be done after construction is completed and all slopes are stabilized and thereafter on a periodic basis. The pond bottom shall be maintained in such a way to insure that all flows will discharge through the outlet structure.
- The side slopes of the pond shall be periodically inspected for erosion. Vegetative cover and rip rap shall be replaced as necessary for bank stabilization.
- Proper access for inspection and maintenance equipment shall be maintained.
- The outlet structure shall be inspected and maintained free of all debris and sediment.
- Additional maintenance measures shall be implemented as necessary to comply with the intent of the plan.
- Trees and brush shall not be allowed to grow within the limits of the detention pond or on the downstream embankment face.

NOTES:

- Base survey information has been provided by Archer Surveying LLC, 468 Allen Hill Road, Brooklyn, CT, (860) 779-2240. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996.
- This survey conforms to a Class "A-2" Horizontal Accuracy and "T-2" Vertical Accuracy. Survey Type: Existing Conditions Survey, Boundary Determination: Resurvey, Intent: Depicting Existing Conditions with respect to Property Line. Topographic information obtained by actual field measurements, Datum Assumed.
- MAP REFERENCES:
 - Map entitled "Existing Conditions Survey Prepared for Town of North Stonington, Route 2/ Rocky Hill Road, North Stonington, Connecticut," Scale: 1"=40', Dated: May 2014, Revised: June 2014, by Archer Surveying LLC, 468 Allen Hill Road, Brooklyn, CT, (860) 779-2240.
- Parcel is known as Lot 6364 on Town of North Stonington Assessor's Map No. 109, and is located within Zone R-40.
- Total Area = 348,306± S.F. - 8.00± Ac.
- This lot does not include land areas within the Federal Emergency Management Agency's 100-year flood hazard area.
- All underground utilities, structures and facility locations shown and depicted hereon must be considered approximate in nature. Additionally, other such underground utilities are NOT shown, the existence and location of which are unknown. Contact "CALL BEFORE YOU DIG" (1-800-922-4455) at least 72 hours in advance of construction, and have all utilities marked on the ground.
- Owner & Applicant: Town of North Stonington
40 Main Street
North Stonington, CT 06359
- No wetlands exist on this site per letter dated July 29, 2014 from Joseph Thoroux, Certified Soil Scientist, P.O. Box 32 Voluntown, CT 06384.
- Erosion and Sediment Control Plan Certified by vote of the North Stonington Planning and Zoning Commission on 10/09/14.
- The Contractor is responsible for all site safety & security within the Contract Limit Line and shall take adequate precautions (i.e. signage, barriers & fencing) to secure the site and protect the general public.

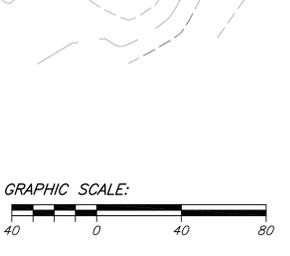
See Sheet C7 for Erosion Control Notes, Details and Proposed Sequence.

LEGEND

<ul style="list-style-type: none"> C.H.D. Monument Mon. Iron Pin to be Set Concrete Monument to be Set Iron Pipe Iron Pin D.H. File of Stones Fence Post Fnd. n/i Now or Formerly Property Line Centerline Ledge or Boulders Earth or gravel fill Existing Spot Elevation Proposed Spot Elevation Invert Elevation of Pipe Roof Leader W.G. Water gate valve G.G. Gas gate valve W Water main C Gas main WS Water service lateral Sanitary sewer lateral Proposed bituminous apron Proposed construction entrance Flush conditions at doorway 	<ul style="list-style-type: none"> Stone Wall Barbed Wire Fence Fence Utility Pole United Illuminating Co. Pole Cons. Light & Power Co. Pole GL&P SNET Southern New England Telephone Manhole Clean Out Catch Basin C.O. Evergreen Tree Deciduous Tree Sewerage or Wetlands Existing Contours Proposed Contours Reinforced Concrete Pipe R.C.P. H.D.P.P. High Density Polyethylene Pipe Test Boring Location, approx. Percussion Test Location Deep Test Pit Location Stone Retaining Wall Soil Type Boundary Proposed Tilt Barrier Wetland Flag Number WL100 Proposed storm water catch basin Proposed storm water sewer P.B.C. (Proposed bituminous curb) P.C.C. (Proposed concrete curb)
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TEMPORARY SEDIMENT TRAP SCHEDULE

TST #	CONTRIBUTING AREA (Ac.)	REQUIRED VOL. 134 c.y./Ac. (est.)	VOL. PROVIDED (est.)	BOTTOM (Elev./Dim's)	WATER SURFACE (Elev./Dim's)	TOP BERM ELEV.
1	0.41	1495	1656	191.0/12x40	193.0/20x48	194.0
2	0.75	2713	2760	190.0/24x40	192.0/32x48	193.0



REVISIONS

NO.	DESCRIPTION	DATE
1	Probe results & blasting limits	7/14/15
4	Addendum 4	7/28/15

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers

3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

DONALD W. SMITH, JR., P.E.
CONSULTING ENGINEER
56 GREENWOOD CIRCLE SEYMOUR, CT 06483
Tel. 203-888-4904 Fax 203-881-3434 dwsjrpe@sbcglobal.net

LEDGE TEST BORING LOCATION PLAN

TOWN OF NORTH STONINGTON
CENTER FOR EMERGENCY SERVICES

#25 ROCKY HOLLOW ROAD

NORTH STONINGTON, CONNECTICUT

Job No. 14-01

Scale: 1"=40'

Date: 7/1/15

Designed: D.W.S.

Drawn: K.D.K.

Sheet: SK-C3-001

SECTION 012200 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.
- B. Related Sections:
 - 1. Section 012600 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.

1.3 DEFINITIONS

- A. Unit price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: Refer to individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

- A. A list of unit prices is included in the Bid Form.

END OF SECTION 012200

SECTION 264113 – LIGHTNING PROTECTION FOR FIXTURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes lightning protection system for ordinary structures.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

- B. Shop Drawings:

1. Include layouts of the lightning protection system, with details of the components to be used in the installation.
2. Include raceway locations needed for the installation of conductors.
3. Details of air terminals, ground rods, ground rings, conductor supports, splices, and terminations, including concealment requirements.
4. Include roof attachment details, coordinated with roof installation.
5. Calculations required by NFPA 780 for bonding of metal bodies.

1.4 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Lightning protection system Shop Drawings, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:

1. Lightning protection cabling attachments to roofing systems and accessories.
2. Lightning protection strike termination device attachment to roofing systems, coordinated with the roofing system manufacturer.
3. Lightning protection system components penetrating roofing and moisture protection systems and system components, coordinated with the roofing system manufacturer.

- B. Qualification Data: For Installer.

- C. Product Certificates: For each type of roof adhesive for attaching the roof-mounted air terminal assemblies, approved by the roofing-material manufacturer.

- D. Field quality-control reports.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For lightning protection system to include in maintenance manuals.

1. In addition to items specified in Section 017823 "Operation and Maintenance Data," include the following:
 - a. Dimensioned site plan showing dimensioned route of the ground loop conductor and the ground rod locations. Comply with requirements of Section 017839 "Project Record Documents."
 - b. A system testing and inspection record, listing the results of inspections and ground resistance tests, as recommended by NFPA 780, Annex D.

B. Completion Certificate:

1. UL Master Label Certificate.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: UL-listed installer, category OWAY or LPI Master Installer.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. NFPA Lightning Protection Standard: Comply with NFPA 780 requirements for Class I buildings.
- B. UL Lightning Protection Standard: Comply with UL 96A requirements for Class I buildings.
- C. Lightning Protection Components, Devices, and Accessories: Listed and labeled by a qualified testing agency as complying with UL 96, and marked for intended location and application.

2.2 MATERIALS

A. Air Terminals:

1. Copper unless otherwise indicated.
2. ½-inch diameter by 12 inches long.
3. Rounded tip.
4. Integral base support.

B. Air Terminal Bracing:

1. Copper.
2. ¼-inch diameter rod.

C. Class 1 Main Conductors:

1. Stranded Copper: 57,400 circular mils in diameter.

D. Secondary Conductors:

1. Stranded Copper: 26,240 circular mils in diameter.

- E. Ground Loop Conductor: Stranded copper.
- F. Ground Rods:
 - 1. Material: Copper-clad steel.
 - 2. Diameter: ¾ inch.
 - 3. Rods shall be not less than 120 inches long.
- G. Conductor Splices and Connectors: Compression fittings that are installed with hydraulically operated tools, or exothermic welds, approved for use with the class type.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install lightning protection components and systems according to UL 96A.
- B. Install conductors with direct paths from air terminals to ground connections. Avoid bends less than 90 degrees and 8 inches in radius and narrow loops.
- C. Conceal conductors within normal view from exterior locations at grade within 200 feet of building. Comply with requirements for concealed installations in UL 96A.
 - 1. Roof penetrations required for down conductors and connections to structural-steel framework shall be made using listed through-roof fitting and connector assemblies with solid rods and appropriate roof flashings. Use materials approved by the roofing manufacturer for the purpose. Conform to the methods and materials required at roofing penetrations of the lightning protection components to ensure compatibility with the roofing specifications and warranty.
 - 2. Install conduit where necessary to comply with conductor concealment requirements.
 - 3. Air Terminals on Single-Ply Membrane Roofing: Comply with adhesive manufacturer's written instructions.
- D. Ground Ring Electrode: The conductor shall be not less than the main-size lightning conductor.

3.2 CONNECTIONS

- A. Aboveground concealed connections, and connections in earth or concrete, shall be done by exothermic welds or by high-compression fittings listed for the purpose.
- B. Aboveground exposed connections shall be done using the following types of connectors, listed and labeled for the purpose: bolted connectors, exothermic weld or high compression.
- C. Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.
 - 1. Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
 - 2. Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install bonding so vibration is not transmitted to rigidly mounted equipment.

3.3 CORROSION PROTECTION

- A. Do not combine materials that can form an electrolytic couple that will accelerate corrosion in the presence of moisture unless moisture is permanently excluded from junction of such materials.
- B. Use conductors with protective coatings where conditions would cause deterioration or corrosion of conductors.

3.4 FIELD QUALITY CONTROL

- A. Special Inspections: Engage a qualified special inspector to perform the following special inspections:
 - 1. Perform inspections as required to obtain a UL Master Label for system.
 - 2. Perform inspections to obtain an LPI certification.
- B. Prepare test and inspection reports and certificates.

END OF SECTION 264113

(To be submitted in duplicate)

BIDDER: _____
Name

Address

To: Board of Selectman’s Office
Old Town Hall
40 Main Street
North Stonington, CT 06359

Project: **New Center for Emergency Services
Phase 2 – Construction
25 Rocky Hollow Road
North Stonington, Connecticut 06359**

In preparing this bid, we have carefully examined the Bidding Documents for this Project. We have visited the site and noted the conditions affecting the Work.

The Bidding Documents referred to include Drawings and Project Manual dated June 15, 2015 entitled New Center for Emergency Services – Phase 2 Construction, North Stonington, Connecticut, prepared by Silver/Petrucci + Associates, Inc., Hamden, Connecticut.

We propose to perform the work described in the Bidding Documents, in keeping with definitions of Article 1 of the Instructions to Bidders, for the Base Bid Sum of:

Base Bids:

Entire Project – Phase 2 for the Total Lump Sum Cost of:

_____ Dollars (\$) .00)
written figure

We will commence work on the project _____ calendar days after receipt of "Notice to Proceed" or signing of Contract. We will be able to substantially complete the project within _____ calendar days.

Bid Alternates:

The undersigned proposes to furnish all Labor, Materials, Equipment and Services necessary to construct the items listed in the Alternates described in Section 012300 for the stipulated sum of:

DEDUCT ALTERNATE NO. 1: East Entrance Canopy and Supports: Add to the Base Bid a Total of:

_____ Dollars (\$) .00)
written figure

The project schedule will be decreased by _____ calendar days to complete the work indicated under Alternate 1.

DEDUCT ALTERNATE NO. 2: West Entrance Canopy and Living Quarters Bay: Add to the Base Bid a Total of:

_____ Dollars (\$) .00)
written figure

The project schedule will be decreased by _____ calendar days to complete the work indicated under Alternate 2.

DEDUCT ALTERNATE NO. 3: Southern Apparatus Bay: Add to the Base Bid a Total of:

_____ Dollars (\$) .00)
written figure

The project schedule will be decreased by _____ calendar days to complete the work indicated under Alternate 3.

Contractor shall be awarded the Contract based upon the lowest qualified bid that meets, or is below, the Owner's budget considering the following prioritized list:

1. Base Bid.
2. Base Bid + Deduct Alternate #1.
3. Base Bid + Deduct Alternates #1 + #2.
4. Base Bid + Deduct Alternates #1 + #2 + #3.

Nothing herein detracts from or alters in any way the right of the Owner to reject any or all Bids for any reason.

Unit Prices:

As required by the Base Bid, should deteriorated or damaged materials be required to be removed as determined by the Architect or Owner, the cost to remove and replace the referenced material, (or credit for specified material not provided or installed) including all labor, material, equipment and related furnishings is as follows:

1. Mass rock excavation, removal and disposal off site \$_____/cy

If written notice of the acceptance of this Bid is mailed, telegraphed or delivered to the undersigned at the Address designated below, within ninety (90) calendar days after the date of Bid Opening, or any time thereafter before this Bid is withdrawn, the undersigned will, within ten (10) calendar days after the date of mailing, telegraphing or delivering of the notice, execute and deliver a contract in the Agreement Between the Town of North Stonington and Contractor as provided in this project manual.

The undersigned acknowledges that he has examined the Bidding Documents, visited and examined the site as required under "Instructions to Bidders", examined the availability of labor and materials and further agrees to comply with all the requirements as to the conditions of employment and wage rates set

forth in the Contract Documents.

Addenda:

The undersigned acknowledges receipt of the following addenda to the Contract Documents, listed by number and date:

- Number , Dated: _____

Exceptions:

NON-COLLUSIVE BID STATEMENT

The undersigned bidder certifies that his bid is made independently and without collusion, agreement, understanding, or planned course of action with any other bidder and that the contents of his bid shall not be disclosed to anyone other than his employees, agents, or sureties prior to the official bid opening.

Date: _____

Signature: _____

Printed Name and Title
of Agent submitting bid: _____

Name of Company: _____

Address: _____

Telephone Number: _____

Fax Number: _____

Email: _____

This Bid may be withdrawn prior to the scheduled Bid Opening or any postponement thereof.