



**US Army Corps
of Engineers**®
New England District
**696 Virginia Road
Concord, MA 0174**

30- DAY PUBLIC NOTICE

Comment Period Begins: March 27, 2012
Comment Period Ends: April 26, 2012
File Number: NAE-2012-0249
In Reply Refer To: Michael Riccio
Phone: (978) 318-8685
E-mail: Michael.S.Riccio@usace.army.mil

The District Engineer has received a permit application from the applicant below to conduct work in waters of the United States as described below.

APPLICANT: Marmon Utility, LLC, Kerite Facilities

ACTIVITY: Marmon Utility, LLC sustained significant streambank damages along the Bladens River during Hurricane Irene at its Kerite facility in Seymour, CT. This project seeks to permanently remediate those damages by reconstructing retaining walls and creating rip rap embankments where the pre-existing embankments failed.

WATERWAY AND LOCATION OF THE PROPOSED WORK

This work is proposed in Bladens River at 49 Day Street in Seymour, Connecticut. The proposed work is located at 41° 23'48.41" N and 73° 4'5.27" W.

AUTHORITY

Permits are required pursuant to:

Section 10 of the Rivers and Harbors Act of 1899

Section 404 of the Clean Water Act

Section 103 of the Marine Protection, Research and Sanctuaries Act).

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are

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also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972 as amended.

SECTION 106 COORDINATION

Based on his initial review, the District Engineer has determined that the proposed work may impact properties listed in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfil requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

ENDANGERED SPECIES CONSULTATION

The New England District, Army Corps of Engineers has reviewed the list of species protected under the Endangered Species Act of 1973, as amended, which might occur at the project site. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect any Federally listed endangered or threatened species or their designated critical habitat. By this Public Notice, we are requesting that the appropriate Federal Agency concur with our determination.

The States of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island have approved **Coastal Zone Management Programs**. Where applicable the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management Program. By this Public Notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

The following authorizations have been applied for, or have been, or will be obtained:

- (X) Permit, License or Assent from State.
- (X) Permit from Local Wetland Agency or Conservation Commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact Michael Riccio at (978) 318-8685, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

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The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.



Robert J. DeSista
Chief, Permits and Enforcement Branch
Regulatory Division

If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____
ADDRESS: _____

PROPOSED WORK AND PURPOSE

The work includes the discharge of dredged or fill material in order to remediate storm related damages to the existing embankments following storm events from August 2011.

The Kerite facility is a campus located along the Bladens River immediately downstream of the 19.5' high Kerite Dam (ID: CT-00600). During an August 14, 2011 storm event flash flooding of the channel resulted in complete failure of two retaining walls and a gabion basket armored embankment, behind which, utilities were located. The failure of these embankments jeopardized those utilities as well as the safety of employees. Temporary rip rap was installed in order to stabilize the banks and prevent further damage, for which emergency authorization was granted. This project intends to permanently remediate the damages incurred during this storm event and remove the interim protective measures.

Emergency solution (to be removed)

Approximately 450 tons of 4' diameter rip rap were placed adjacent to Buildings 21/45 (north bank), where a patio and utilities were partially supported by a retaining wall that was completely destroyed during the storm. The rip rap prevented the patio from collapsing and prevented undermining of the buildings themselves.

Downstream of Buildings 21/45 is a 90 linear feet concrete retaining wall, adjacent to Building 22-R (north bank), that was undermined to the point of failure (wall failed but still present). Utilities located above were relocated further landward and approximately 75 tons of rip rap were placed behind the failed wall to prevent it from collapsing into the stream.

Also located at Building 22-R (south bank) was a natural stream bank reinforced with stone filled gabion baskets. The majority of the gabion baskets failed and were washed downstream; much of which settled under building 22-R, which spans the river. Approximately 75 tons of rip rap was placed along the bank to prevent further erosion of the stream bank.

Permanent Solution (Proposed Work)

At Buildings 21/45 the applicant seeks to demolish the existing patio and relocate the existing but deactivated utilities. Following demolition work, a new 55 linear feet concrete retaining wall is to be constructed using bracketed micropiles driven into the bedrock. In order to construct the new retaining wall the stream will be temporarily diverted by extending the riprap 10' into the channel. Upon completion of the new retaining wall all temporary rip rap is to be removed with the exception of a row of tone stone to prevent future scouring.

At Building 22-R (north bank) 65 linear feet of steel sheet pile will driven behind the existing failed retaining wall. The existing retaining wall will then be removed and a new 20 linear feet concrete retaining wall will be built from the end of the sheetpile, extending to Building 22-R. In addition, approximately 300 cubic yards of layered rip rap will be placed waterward of the new walls, creating a new embankment.

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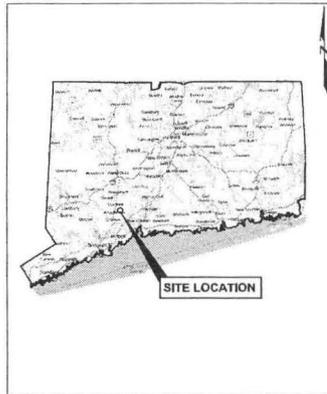
At Building 22-R (south bank) all remaining gabion baskets along the bank are to be removed as well as approximately 1,100 cubic yards of excavated sediment in order to pull back the slope. Subsequently approximately 1,100 will be used to create a new layered rip rap embankment. Underneath Building 22-R the existing gabion baskets will be removed. Approximately 925 cubic yards of sediment will then be excavated from the channel and replaced with a layered rip rap channel.

The project will result in the permanent placement of approximately 12,000 square feet of rip rap below the ordinary high water mark and is described on the enclosed plans entitled "Remedial Design Kerite Company Facilities Seymour, Connecticut" on nine (9) sheets, and dated "3/1/2012." Full sized plans are available upon request.

MITIGATION There is no Federal Compensatory Mitigation proposed for this project. The project purpose is to repair embankments that failed due to storm damage. It has been designed to minimize impacts to the extent practicable, and has been designed to include features that enhance fish habitat.

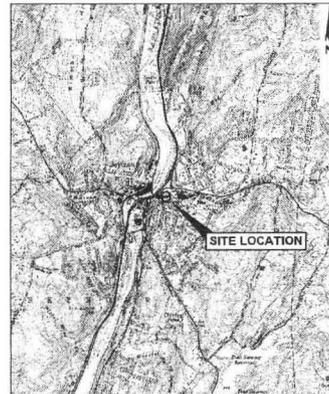
REMEDIAL DESIGN DRAWINGS

KERITE COMPANY FACILITIES SEYMOUR, CONNECTICUT



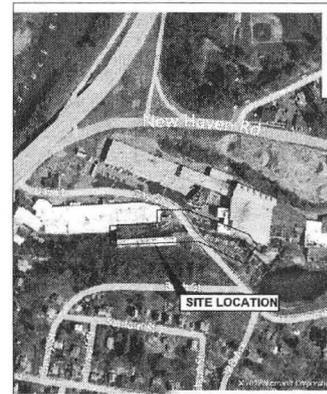
SOURCE:
MAP IMAGE CREATED WITH GOOGLE MAPS © 2012.

STATE MAP
APPROXIMATE SCALE: 1" = 20 MILES



SOURCE:
U.S.G.S. TOPOGRAPHIC MAPS: 124,000, NAUGATUCK, CT, 1984. MAP CREATED WITH
TOPOI 6 62031 NATIONAL GEOGRAPHIC (www.nationalgeographic.com/icpo).

REGIONAL MAP
SCALE: 1" = 0.5 MILE



SOURCE:
ERIC MAPS © 2012.

SITE LOCATION
SCALE: 1" = 250 FEET

SCHEDULE OF DRAWINGS

1. COVER SHEET, LOCATION MAP AND LIST OF DRAWINGS
2. GENERAL NOTES, ABBREVIATIONS AND LEGEND
3. EXISTING CONDITIONS PLAN AND SECTIONS
4. PROPOSED CONSTRUCTION - BUILDINGS 21/45
5. PROPOSED CONSTRUCTION - BUILDINGS 21/45 SECTIONS AND DETAILS
6. PROPOSED CONSTRUCTION - DAY STREET BRIDGE TO BUILDING 22R
7. PROPOSED CONSTRUCTION - DAY STREET BRIDGE TO BUILDING 22R SECTIONS AND DETAILS
8. EROSION AND SEDIMENT CONTROL PLAN AND DETAILS
9. SITE RESTORATION PLAN

PREPARED FOR:

KERITE COMPANY/MARMON UTILITY LLC
49 DAY STREET
SEYMOUR, CONNECTICUT 06483



Kerite
Wholesale Products Since 1854

GEI Consultants
455 WINDING BROOK DRIVE
SUITE 201
GLASTONBURY, CONNECTICUT 06033
860-368-4300, FAX 860-368-4307
WWW.GEICONSULTANTS.COM

PROJECT NUMBER: 115070
MARCH 1, 2012

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NO.	DATE	DESCRIPTION	DES.	DR.	CH.	APP.
0	3/1/12	FOR PERMIT APPLICATION		BMC	BMC	JPE/PAH

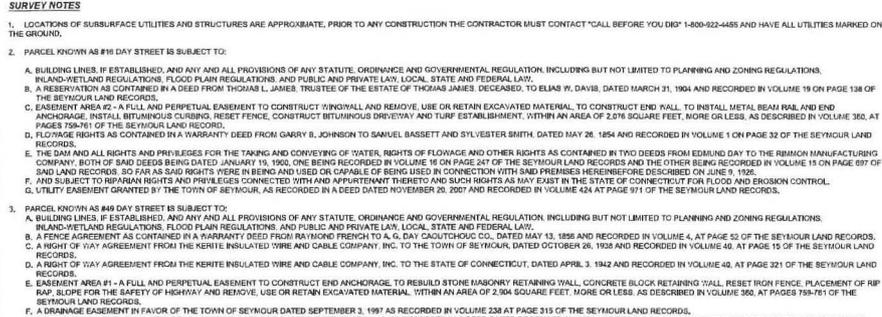


EXISTING CONDITIONS NOTES

- TEMPORARY RFP RAP FLAG PLACED UNDER THE DIRECTION OF GSI ON AUGUST 26-27, 2011. WORK PERFORMED IN ACCORDANCE WITH APPROVAL LETTER FROM THE TOWN OF SEYMOUR INLAND WETLANDS COMMISSION DATED AUGUST 23, 2011. THIS WORK TO BE CONSIDERED EMERGENCY REMEDIAL ACTION AS PART OF THIS PERMIT APPLICATION. TEMPORARY RFP RAP FLAG TO BE REMOVED DURING FINAL CONSTRUCTION.

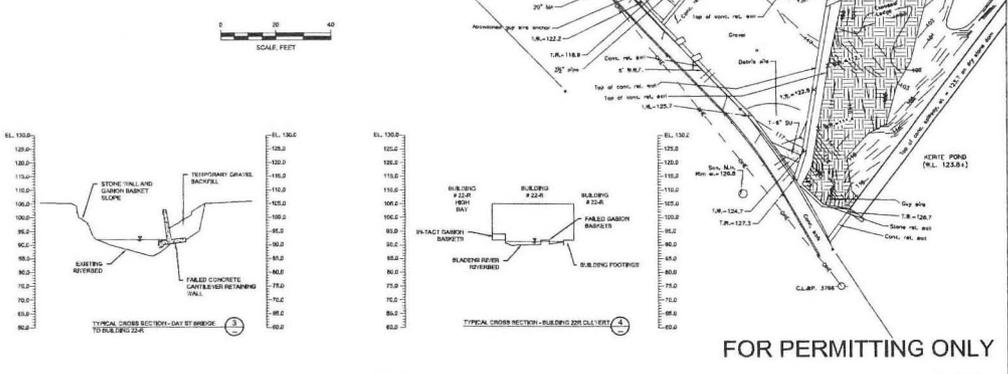
SURVEY NOTES

- LOCATIONS OF SUBSURFACE UTILITIES AND STRUCTURES ARE APPROXIMATE. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR MUST CONTACT "CALL BEFORE YOU DIG" 1-800-922-4455 AND HAVE ALL UTILITIES MARKED ON THE GROUND.
- PARCEL KNOWN AS #16 DAY STREET IS SUBJECT TO:
 - BUILDING LINES, IF ESTABLISHED, AND ANY AND ALL PROVISIONS OF ANY STATUTE, ORDINANCE AND GOVERNMENTAL REGULATION, INCLUDING BUT NOT LIMITED TO PLANNING AND ZONING REGULATIONS, INLAND WETLAND REGULATIONS, FLOOD PLAIN REGULATIONS, AND PUBLIC AND PRIVATE LAW, LOCAL, STATE AND FEDERAL LAW.
 - A RESERVATION AS CONTAINED IN A DEED FROM THOMAS L. JAMES, TRUSTEE OF THE ESTATE OF THOMAS JAMES, DECEASED, TO ELIAN W. DAVIS, DATED MARCH 31, 1904 AND RECORDED IN VOLUME 19 ON PAGE 134 OF THE SEYMOUR LAND RECORDS.
 - EASEMENT AREA #2 - A FULL AND PERPETUAL EASEMENT TO CONSTRUCT, MAINTAIN AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL, TO CONSTRUCT END WALL, TO INSTALL METAL BEAM RAIL AND END ANCHORAGE, INSTALL BITUMINOUS CURBING, RESET FENCE, CONSTRUCT BITUMINOUS DRIVEWAY AND TURF ESTABLISHMENT, WITHIN AN AREA OF 2,016 SQUARE FEET, MORE OR LESS, AS DESCRIBED IN VOLUME 360, AT PAGES 759-761 OF THE SEYMOUR LAND RECORDS.
 - FLOODAGE RIGHTS AS CONTAINED IN A WARRANTY DEED FROM GARRY B. JOHNSON TO SAMUEL BASSETT AND SYLVESTER SMITH, DATED MAY 26, 1894 AND RECORDED IN VOLUME 1 ON PAGE 32 OF THE SEYMOUR LAND RECORDS.
 - THE DAM AND ALL RIGHTS AND PRIVILEGES FOR THE TAKING AND CONVEYING OF WATER, RIGHTS OF FLOODAGE AND OTHER RIGHTS AS CONTAINED IN TWO DEEDS FROM EDMUND DAY TO THE REMON MANUFACTURING COMPANY, BOTH OF SAID DEEDS BEING DATED JANUARY 19, 1900, ONE BEING RECORDED IN VOLUME 16 ON PAGE 247 OF THE SEYMOUR LAND RECORDS AND THE OTHER BEING RECORDED IN VOLUME 19 ON PAGE 657 OF SAID LAND RECORDS, SO FAR AS SAID RIGHTS WERE IN BEING AND USED OR CAPABLE OF BEING USED IN CONNECTION WITH SAID PREMISES HEREBEFORE DESCRIBED ON JUNE 9, 1926.
 - F, AND SUBJECT TO RIPARIAN RIGHTS AND PRIVILEGES CONNECTED WITH AND APPURTENANT THERETO AND SUCH RIGHTS AS MAY EXIST IN THE STATE OF CONNECTICUT FOR FLOOD AND EROSION CONTROL, G, UTILITY EASEMENT GRANTED BY THE TOWN OF SEYMOUR, AS RECORDED IN A DEED DATED NOVEMBER 20, 2007 AND RECORDED IN VOLUME 424 AT PAGE 971 OF THE SEYMOUR LAND RECORDS.
- PARCEL KNOWN AS #49 DAY STREET IS SUBJECT TO:
 - BUILDING LINES, IF ESTABLISHED, AND ANY AND ALL PROVISIONS OF ANY STATUTE, ORDINANCE AND GOVERNMENTAL REGULATION, INCLUDING BUT NOT LIMITED TO PLANNING AND ZONING REGULATIONS, INLAND WETLAND REGULATIONS, FLOOD PLAIN REGULATIONS, AND PUBLIC AND PRIVATE LAW, LOCAL, STATE AND FEDERAL LAW.
 - A FENCE AGREEMENT AS CONTAINED IN A WARRANTY DEED FROM RAYMOND FRENCH TO A. G. DAY CAGOUTCHOUX CO., DATED MAY 13, 1896 AND RECORDED IN VOLUME 4, AT PAGE 52 OF THE SEYMOUR LAND RECORDS.
 - A RIGHT OF WAY AGREEMENT FROM THE KERITE INSULATED WIRE AND CABLE COMPANY, INC. TO THE TOWN OF SEYMOUR, DATED OCTOBER 26, 1932 AND RECORDED IN VOLUME 46, AT PAGE 15 OF THE SEYMOUR LAND RECORDS.
 - A RIGHT OF WAY AGREEMENT FROM THE KERITE INSULATED WIRE AND CABLE COMPANY, INC. TO THE STATE OF CONNECTICUT, DATED APRIL 3, 1942 AND RECORDED IN VOLUME 40, AT PAGE 321 OF THE SEYMOUR LAND RECORDS.
 - EASEMENT AREA #1 - A FULL AND PERPETUAL EASEMENT TO CONSTRUCT END ANCHORAGE, TO REBUILD STONE MASONRY RETAINING WALL, CONCRETE BLOCK RETAINING WALL, RESET IRON FENCE, PLACEMENT OF RFP RAP SLOPE FOR THE SAFETY OF HIGHWAY AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL, WITHIN AN AREA OF 2,004 SQUARE FEET, MORE OR LESS, AS DESCRIBED IN VOLUME 360, AT PAGES 759-761 OF THE SEYMOUR LAND RECORDS.
 - A DRAINAGE EASEMENT IN FAVOR OF THE TOWN OF SEYMOUR DATED SEPTEMBER 3, 1997 AS RECORDED IN VOLUME 238 AT PAGE 313 OF THE SEYMOUR LAND RECORDS.
 - A DRAINAGE EASEMENT AND TEMPORARY SLOPE RIGHTS TO ROCKETER ENTERPRISES, LLC, AS RECORDED IN A DEED DATED DECEMBER 28, 2009 AND RECORDED IN VOLUME 439 AT PAGE 571 OF THE SEYMOUR LAND RECORDS.
 - RIPARIAN RIGHTS AS NOW EXIST.
 - UTILITY EASEMENT GRANTED BY THE TOWN OF SEYMOUR, AS RECORDED IN A DEED DATED NOVEMBER 20, 2007 AND RECORDED IN VOLUME 424 AT PAGE 971 OF THE SEYMOUR LAND RECORDS.
- LOCATIONS OF BORINGS LABELED: B-1, B-2, B-3 & B-4 WERE TAKEN FROM A MAP ENTITLED: "TOWN OF SEYMOUR, DAY STREET BRIDGE, ROADWAY PLAN AND PROFILE, SEYMOUR, CONNECTICUT, SCALES: HORIZ. 1:200 VERT. 1:20; STATE PROJECT 124-166; DATED: AUG. 2007; SHEET NO. 7 OF 28"; BY ANCHOR ENGINEERING SERVICES, INC., THESE LOCATIONS WERE NOT FIELD VERIFIED AND MUST BE CONSIDERED APPROXIMATE.
- LOCATION OF BORINGS LABELED: B-10, WAS TAKEN FROM A MAP ENTITLED: "SITE GRADING & EROSION CONTROL PLAN, KERITE 2000, #49 DAY STREET, SEYMOUR, CONNECTICUT, SCALE: 1"=40'; DATED: 12/14/92; SHEET NO. 101" BY THE CENTER FOR STRUCTURES, INC. THIS LOCATION WAS NOT FIELD VERIFIED AND MUST BE CONSIDERED APPROXIMATE.
- BORINGS GSI THROUGH GSB PERFORMED BY GSI CONSULTANTS BETWEEN OCTOBER 19-22, 2011.



NO.	DATE	DESCRIPTION	DES	DR	CH	APP
0	3-1-12	FOR PERMIT APPLICATION	EMC	EMC	CLF	PHH

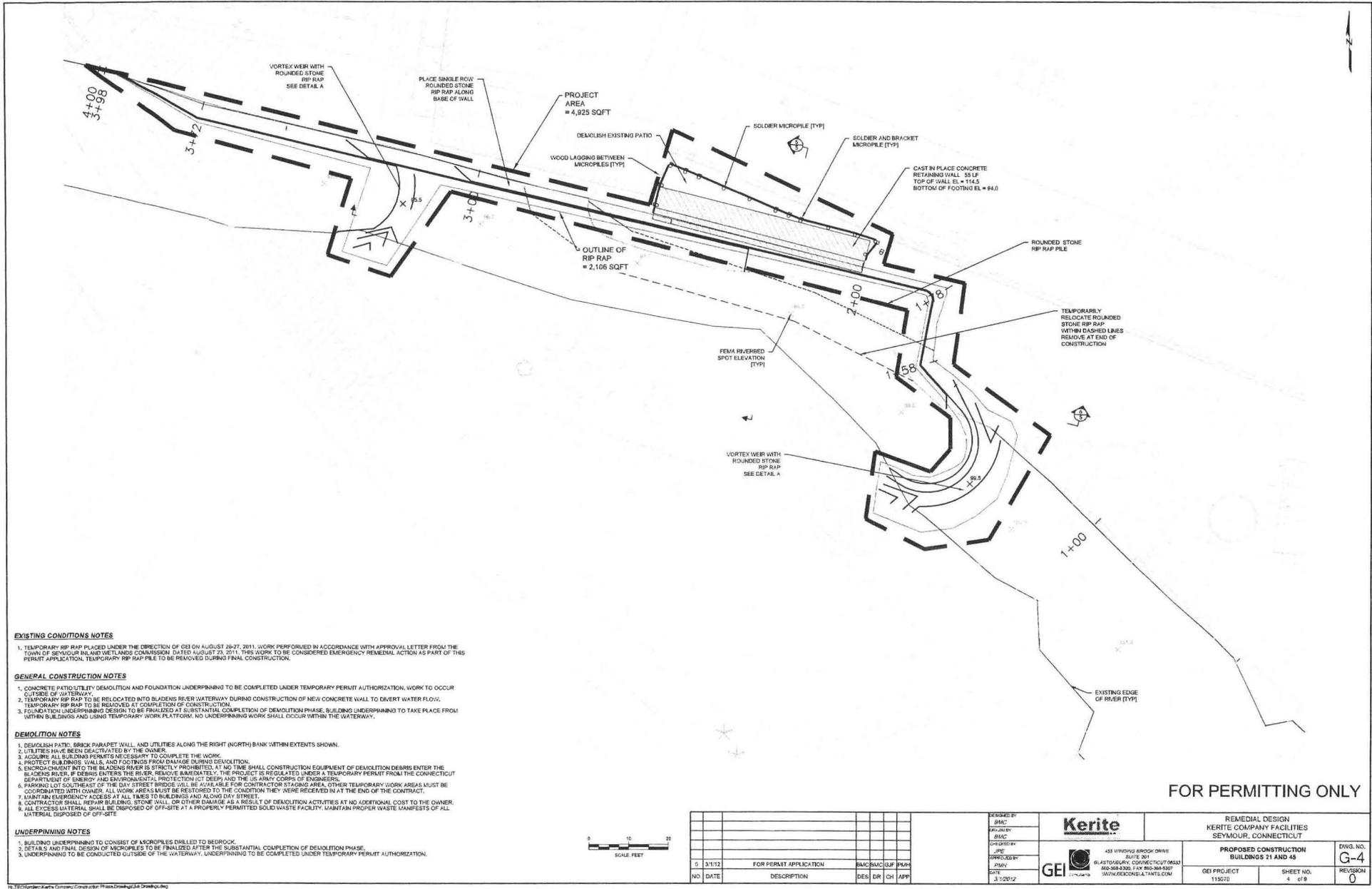
© 2012 Kerite Company. Kerite.com. P:\49 Day Street\310 Drawings



NO.	DATE	DESCRIPTION	DES	DR	CH	APP
0	3-1-12	FOR PERMIT APPLICATION	EMC	EMC	CLF	PHH

FOR PERMITTING ONLY

DESIGNED BY EMC	Kerite Kerite.com	REMEDIAL DESIGN KERITE COMPANY FACILITIES SEYMOUR, CONNECTICUT	DWG. NO. G-3
CHECKED BY EMC		EXISTING CONDITIONS PLAN AND SECTIONS	REVISION 0
DATE 3/1/2012	458 WINDING BROOK DRIVE SUITE 201 GLASTONBURY, CONNECTICUT 06033 860-582-5200 FAX 860-582-8877 WWW.KERITECORPORATION.COM	GEI PROJECT 119070	SHEET NO. 3 OF 5



EXISTING CONDITIONS NOTES

1. TEMPORARY RIP RAP PLACED UNDER THE DIRECTION OF DEI ON AUGUST 26-27, 2011. WORK PERFORMED IN ACCORDANCE WITH APPROVAL LETTER FROM THE TOWN OF SEYMOUR INLAND WETLANDS COMMISSION DATED AUGUST 23, 2011. THIS WORK TO BE CONSIDERED EMERGENCY REMEDIAL ACTION AS PART OF THIS PERMIT APPLICATION. TEMPORARY RIP RAP PILE TO BE REMOVED DURING FINAL CONSTRUCTION.

GENERAL CONSTRUCTION NOTES

1. CONCRETE PATIO/UTILITY DEMOLITION AND FOUNDATION UNDERPINNING TO BE COMPLETED UNDER TEMPORARY PERMIT AUTHORIZATION. WORK TO OCCUR OUTSIDE OF WATERWAY.
2. TEMPORARY RIP RAP TO BE RELOCATED INTO BLADENS RIVER WATERWAY DURING CONSTRUCTION OF NEW CONCRETE WALL TO DIVERT WATER FLOW. TEMPORARY RIP RAP TO BE REMOVED AT COMPLETION OF CONSTRUCTION.
3. FOUNDATION UNDERPINNING DESIGN TO BE FINALIZED AT SUBSTANTIAL COMPLETION OF DEMOLITION PHASE. BUILDING UNDERPINNING TO TAKE PLACE FROM WITHIN BUILDINGS AND USING TEMPORARY WORK PLATFORMS. NO UNDERPINNING WORK SHALL OCCUR WITHIN THE WATERWAY.

DEMOLITION NOTES

1. DEMOLISH PATIO, BRICK PARAPET WALL, AND UTILITIES ALONG THE RIGHT (NORTH) BANK WITHIN EXTENTS SHOWN.
2. UTILITIES HAVE BEEN DEACTIVATED BY THE OWNER.
3. ACQUIRE ALL BUILDING PERMITS NECESSARY TO COMPLETE THE WORK.
4. PROTECT BUILDINGS, WALLS, AND FOOTINGS FROM DAMAGE DURING DEMOLITION.
5. ENCRUSTATION INTO THE BLADENS RIVER IS STRICTLY PROHIBITED. AT NO TIME SHALL CONSTRUCTION EQUIPMENT OR DEMOLITION DEBRIS ENTER THE BLADENS RIVER. IF DEBRIS ENTERS THE RIVER, REMOVE IMMEDIATELY. THE PROJECT IS REGULATED UNDER A TEMPORARY PERMIT FROM THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CT DEEP) AND THE US ARMY CORPS OF ENGINEERS.
6. PARKING LOT SOUTHWEST OF THE DAY STREET BRIDGE WILL BE AVAILABLE FOR CONTRACTOR STAGING AREA. OTHER TEMPORARY WORK AREAS MUST BE COORDINATED WITH OWNER. ALL WORK AREAS MUST BE RESTORED TO THE CONDITION THEY WERE RECEIVED IN AT THE END OF THE CONTRACT.
7. MAINTAIN EMERGENCY ACCESS AT ALL TIMES TO BUILDINGS AND ALONG DAY STREET.
8. CONTRACTOR SHALL REPAIR BUILDING, STONE WALL, OR OTHER DAMAGE AS A RESULT OF DEMOLITION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
9. ALL EXCESS MATERIAL SHALL BE DISPOSED OF OFF-SITE AT A PROPERLY PERMITTED SOLID WASTE FACILITY. MAINTAIN PROPER WASTE MANIFESTS OF ALL MATERIAL DISPOSED OF OFF-SITE.

UNDERPINNING NOTES

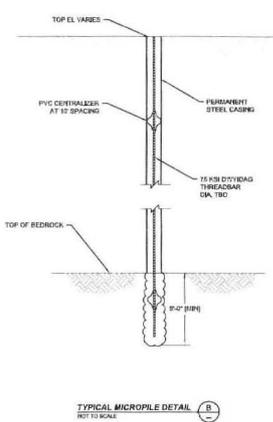
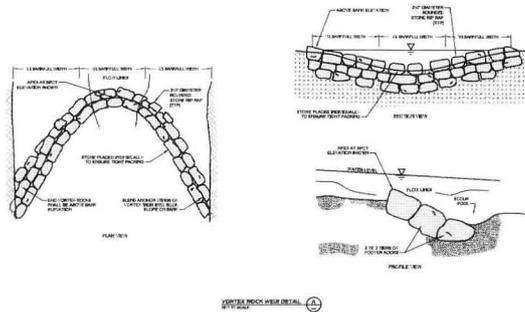
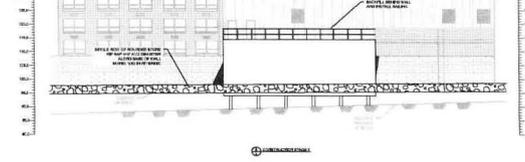
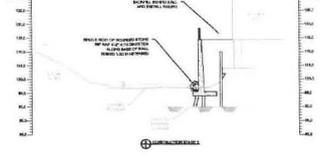
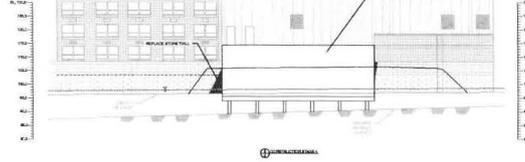
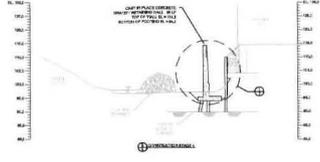
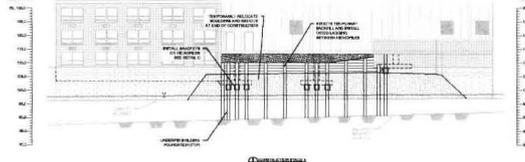
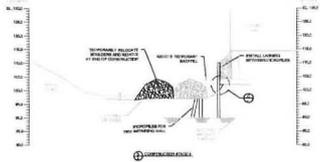
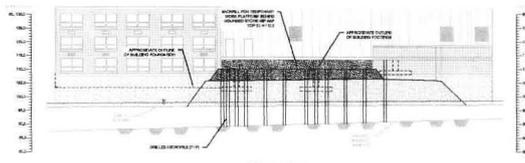
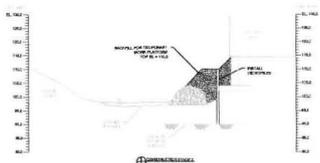
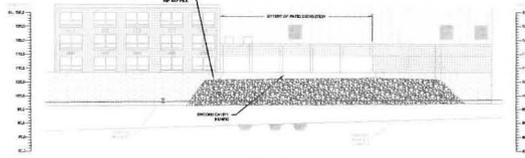
1. BUILDING UNDERPINNING TO CONSIST OF MICROPILES DRILLED TO BEDROCK.
2. DETAILS AND FINAL DESIGN OF MICROPILES TO BE FINALIZED AFTER THE SUBSTANTIAL COMPLETION OF DEMOLITION PHASE.
3. UNDERPINNING TO BE CONDUCTED OUTSIDE OF THE WATERWAY. UNDERPINNING TO BE COMPLETED UNDER TEMPORARY PERMIT AUTHORIZATION.



FOR PERMITTING ONLY

DESIGNED BY BMC CHECKED BY BMC DATE 3/1/12				REMEDIAL DESIGN KERITE COMPANY FACILITIES SEYMOUR, CONNECTICUT		PROPOSED CONSTRUCTION BUILDINGS 21 AND 45		DWG. NO. G-4 REVISION 0	
NO. DATE DESCRIPTION DES DR CH APP				455 WINNING BROOK DRIVE SUITE 201 BLASTON, CONNECTICUT 06033 860-388-3300, FAX 860-388-8307 WWW.KERITECONSULTANTS.COM		GEI PROJECT 115070		SHEET NO. 4 of 9	

K:\TECH\Spec\Kerite Company\Construction\Phase Drawings\3-5 Drawings.dwg



EXISTING CONDITIONS NOTES

1. TEMPORARY RIP RAP PLACED UNDER THE DIRECTION OF GEI ON AUGUST 26-27, 2011. WORK PERFORMED IN ACCORDANCE WITH APPROVAL LETTER FROM THE TOWN OF SEYMOUR INLAND WETLANDS COMMISSION, DATED AUGUST 23, 2011. THIS WORK TO BE CONSIDERED EMERGENCY REMEDIAL ACTION AS PART OF THIS PERMIT APPLICATION. TEMPORARY RIP RAP PILE TO BE REMOVED DURING FINAL CONSTRUCTION.

GENERAL CONSTRUCTION NOTES

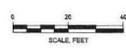
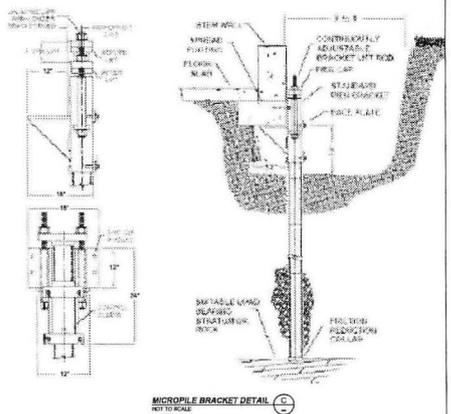
1. CONSTRUCTION STAGES 1 AND 2 SHOWN ABOVE TO BE COMPLETED UNDER TEMPORARY PERMIT AUTHORIZATION. WORK TO OCCUR OUTSIDE OF WATERWAY CHANNEL.
2. BUILDING UNDERPINNING DESIGN TO BE FINALIZED AT SUBSTANTIAL COMPLETION OF DEMOLITION PHASE. CONCEPTUAL UNDERPINNING DESIGN CONSISTS OF DRILLED MICROPILES TO BEDROCK.
3. MICROPILES SHALL BE BRACKETED TO BUILDING TO TRANSFER LOAD FROM WALL OR COLUMNS. ADDITIONAL MICROPILES SHALL BE DRILLED FOR INSTALLATION OF WOOD LAGGING.
4. WOOD LAGGING SHALL CONSIST OF MINIMUM 3" WOOD SAWN LUMBER. LAGGING SHALL BE BACK PACKED AS NECESSARY TO PREVENT UNRAVELING OF SOILS.
5. NO WORK SHALL OCCUR WITHIN THE WATERWAY EXCEPT FOR THE JUNE 1 - SEPTEMBER 30 TIMEFRAME.
6. TEMPORARY RIP RAP TO BE RELOCATED INTO BLADENS RIVER WATERWAY DURING CONSTRUCTION OF NEW CONCRETE WALL TO DIVERT WATER FLOW. TEMPORARY RIP RAP TO BE REMOVED AT COMPLETION OF CONSTRUCTION.
7. REMOVE ALL CONSTRUCTION EQUIPMENT, WORK PLATFORMS, AND MATERIALS FROM THE WATERWAY AND SURROUNDING AREA IN THE EVENT OF HIGH WATER AT NO ADDITIONAL COST TO THE OWNER.

CONCRETE CANTILEVER WALL NOTES:

1. CONCRETE FOR CANTILEVER RETAINING WALL SHALL HAVE MINIMUM COMPRESSIVE $F_c = 4000$ PSI AT 28 DAYS.
2. REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615 GRADE 60.
3. PROVIDE EXPANSION JOINT AND FILLER AT CONNECTION WITH BUILDING FOUNDATIONS.
4. RECONSTRUCT THE REMAINING STONE WALL IN THE VICINITY OF THE NEW CONCRETE WALL. PROVIDE WATER TIGHT CONNECTION TO NEW CONCRETE WALL.

COMPLETION NOTES

1. RAILINGS SHALL CONSIST OF ALUMINUM RAILING SYSTEM SATISFYING LOCAL, STATE, AND FEDERAL SAFETY CODES. RAILINGS SHALL BE PROPERLY ANCHORED INTO CONCRETE.
2. BACKFILL BEHIND CONCRETE WALL SHALL CONSIST OF COMPACTED GRANULAR FILL WITH MINIMUM MODIFIED PROCTOR RELATIVE DENSITY OF 90%.
3. SURFACE OF PATIO SHALL BE FINISHED WITH 6 INCH THICK CONCRETE WITH MINIMUM COMPRESSIVE STRENGTH $F_c = 3000$ PSI AT 28 DAYS. PROVIDE BOND BREAKER BETWEEN PATIO SURFACE AND BUILDINGS.



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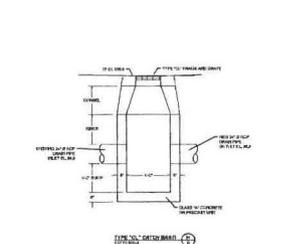
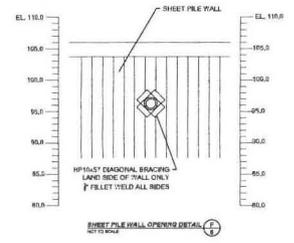
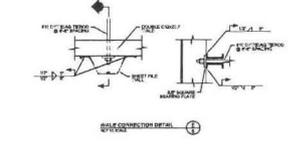
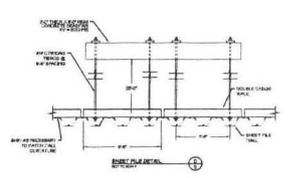
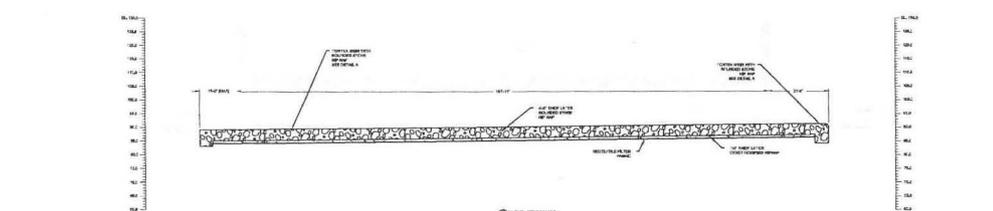
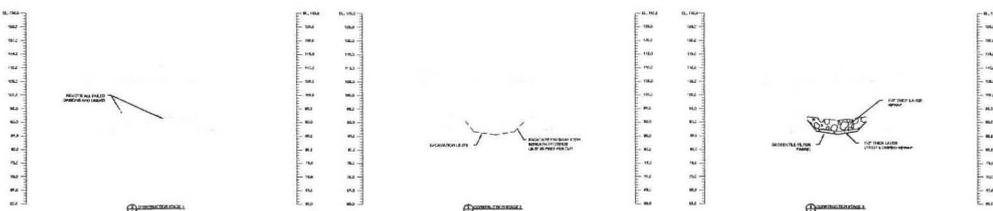
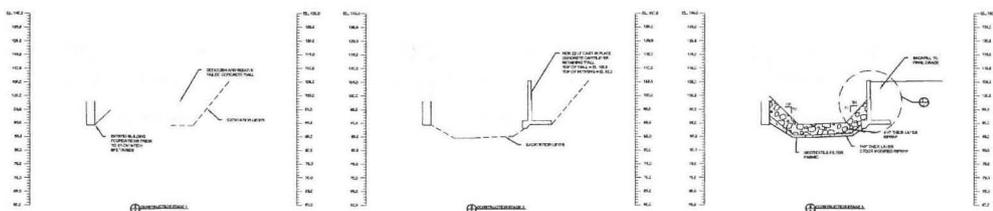
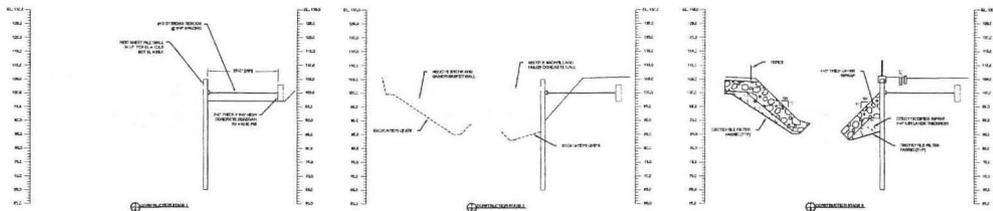
NO.	DATE	DESCRIPTION	DES	DR	CH	APP
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DESIGNED BY
BMC
DRAWN BY
BMC
CHECKED BY
JFE
APPROVED BY
PMH
DATE
3/1/2012

Kerite
REMEDIAL DESIGN
KERITE COMPANY FACILITIES
SEYMOUR, CONNECTICUT

456 WINDING BROOK DRIVE SUITE 201
BLASTONBURY, CONNECTICUT 06033
860-868-0200 FAX 860-786-0207
WWW.GECONSULTANTS.COM

PROPOSED CONSTRUCTION	DWG. NO.
BUILDINGS 21 AND 45 SECTIONS AND DETAILS	G-5
SHEET NO. 5 of 9	REVISION 0



RIPRAP NOTES:

1. RIPRAP SHALL CONSIST OF ROUNDED STONE RIPRAP WITH MAXIMUM DIAMETER (D100) OF 4 FEET AND A 30% DIAMETER (D30) OF 3 FEET. RIP RAP SHALL BE INDIVIDUALLY PLACED AND TIGHTLY PACKED.
2. MODIFIED RIPRAP SHALL CONSIST OF CT DCT SPECIFIED M12.02 MODIFIED RIPRAP.
3. GEOTEXTILE LAYER SHALL CONSIST OF MIRAFI F7600 OR APPROVED EQUIVALENT. GEOTEXTILE SHALL BE OVERLAPPED TO PROVIDE SUFFICIENT COVERAGE.
4. EXCAVATION AND RIPRAP PLACEMENT BENEATH BUILDING ZSR SHALL BE PERFORMED IN THE NET. INSTALL SEDIMENT AND EROSION CONTROLS SHOWN ON SHEET 8 PRIOR TO ENTERING THE WATERWAY.
5. LIMIT EXTENT OF EXCAVATION BENEATH ZSR TO MINIMIZE LOCAL EROSION DURING EXCAVATION. SLOPE OF EXCAVATION SHALL NOT EXCEED 1 VERTICAL : 1 HORIZONTAL BENEATH BUILDING FOOTINGS AT ANY GIVEN TIME. PROVIDE LOCAL WATER DIVERSION TO PROTECT FOOTING MATERIAL FROM BEING ERODED.
6. LOCAL WATER DIVERSION MAY BE USED ALONG THE LEFT AND RIGHT BANKS BETWEEN DAY STREET BRIDGE AND BUILDING ZSR SUCH AS SAND BAGS OR SHEET PILES. ALL LOCAL WATER DIVERSION MUST BE REMOVED PRIOR TO A RAINFALL EVENT AND THE AREA MUST BE STABILIZED BY PLACING ROUNDED STONE RIP RAP.

CATCH BASIN NOTES:

1. INLET ELEVATION OF EXISTING 24-INCH DIAMETER RCP PIPE IS APPROXIMATE. ACTUAL ELEVATION SHALL BE VERIFIED IN FIELD. ADJUST CATCH BASIN STRUCTURE INLETS ACCORDINGLY.
2. REINFORCING STEEL WELDED WIRE SHALL CONFORM TO ASTM SPECIFICATION A615. AND REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615.
3. CONCRETE COMPRESSIVE STRENGTH FC = 4000 PSI AT 28 DAYS.
4. CATCH BASIN SHALL BE CAPABLE OF WITHSTANDING HS-20 LOADING.
5. CATCH BASIN GRATE SHALL BE PAINTED.

SHEET PILE WALL NOTES:

1. INSTALL SHEET PILE WALL PRIOR TO DEMOLITION AND REMOVAL OF EXISTING FAILED CONCRETE RETAINING WALL.
2. REINFORCING STEEL WELDED WIRE SHALL CONFORM TO ASTM SPECIFICATION A615. AND REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615.
3. SHEET PILE SECTION SHALL HAVE MINIMUM WALL THICKNESS OF 0.5-INCHES AND A MINIMUM ELASTIC SECTION MODULUS OF 60.7 INCHES PER FOOT. SHEET PILE SECTION SHALL CONSIST OF STEEL GRADE 50 KSI.
4. CONCRETE DEADMAN ANCHORS SHALL CONSIST OF CONCRETE WITH FC = 5000 PSI AT 28 DAYS. THE ROBS SHALL NOT BE LOCKED OFF UNTIL DEADMAN ANCHORS HAVE ACHIEVED AT LEAST 75% OF THEIR REQUIRED DESIGN STRENGTH.
5. TIERSHDS SHALL CONSIST OF #10 DTYWIDAG 3-THREAD BARS, GRADE 75 KSI.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING OBSTRUCTIONS, SUCH AS BOULDERS, USING APPROVED METHODS (SUCH AS SPLUDGING).
7. USE PILE DRIVING METHODS TO MINIMIZE VIBRATIONS TO NEARBY SITE FEATURES.
8. PEAK PARTICLE VELOCITY (PPV) OF VIBRATIONS CAUSED BY SHEET PILE DRIVING SHALL BE KEPT BELOW 1.0 INCHES PER SECOND AT THE DAY STREET BRIDGE AND BUILDING ZSR. ENGINEER SHALL PERFORM VIBRATION MONITORING DURING CONSTRUCTION AND WILL ALERT THE CONTRACTOR OF EXCEEDENCES.

CONCRETE CANTILEVER WALL NOTES:

1. CONCRETE FOR CANTILEVER RETAINING WALL SHALL HAVE MINIMUM COMPRESSIVE FC = 4000 PSI AT 28 DAYS.
2. REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615 GRADE 60.
3. RIP RAP ON CONCRETE RETAINING WALL TOE SHALL BE PLACED PRIOR TO BACKFILLING BEHIND WALL.
4. WALL SHALL BE BACKFILLED WITH COMPACTED GRANULAR FILL TO MINIMUM MODIFIED PROCTOR DENSITY OF 95%.
5. PROVIDE EXPANSION JOINT AND FILLER AT CONNECTION WITH BUILDING ZSR FOUNDATIONS.
6. EMBED LAST HALF SHEET PILE SECTION WITHIN WALL TO CREATE CONTINUOUS WALL UNIT.

BUILDING FOUNDATION NOTES:

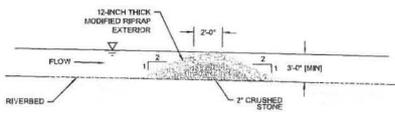
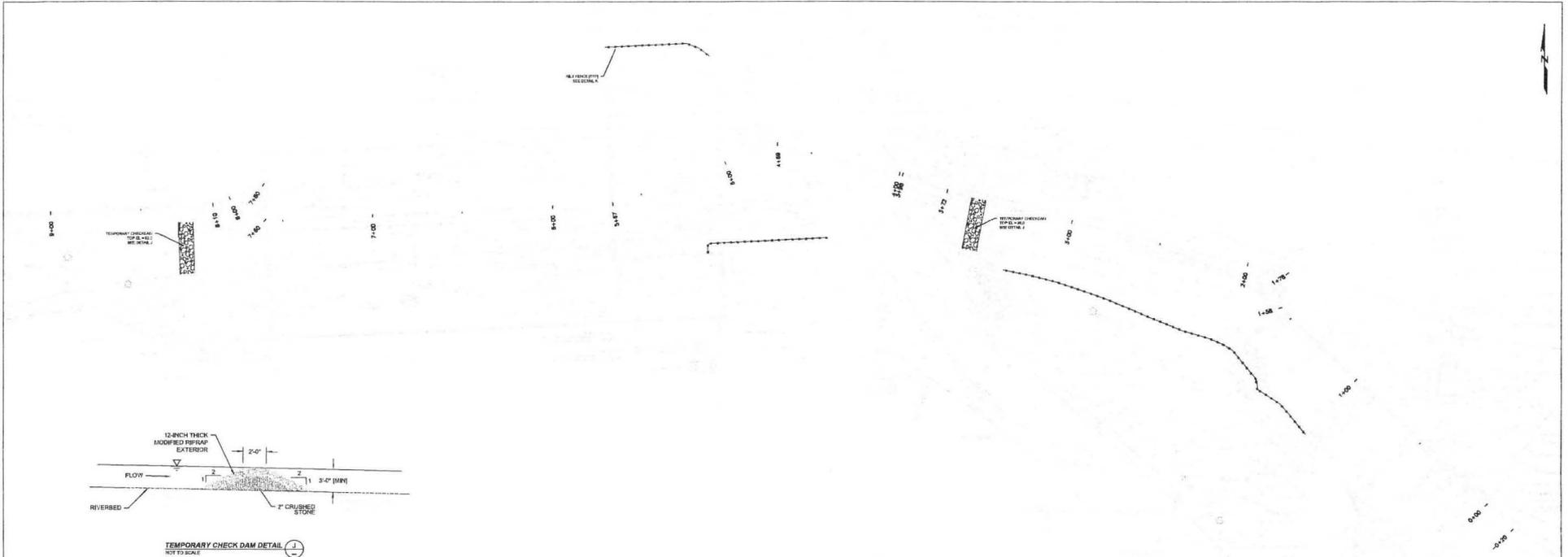
1. THE NORTH FOUNDATION WALL ALONG BUILDING ZSR HIGH BAY MUST BE EXTENDED BELOW THE APPROXIMATE DEPTH OF EXCAVATION FOR PLACEMENT OF RIP RAP.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING BUILDING STABILITY. MEANS AND METHODS MUST BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
3. IN THE EVENT OF POTENTIAL HIGH WATER, BACKFILL ANY EXCAVATIONS AND STABILIZE AREA.

FOR PERMITTING ONLY



NO.	DATE	DESCRIPTION	DES	DR	CH	APP
0	3/1/12	FOR PERMIT APPLICATION	BMC	BMC	QJF	PRH

DESIGNED BY BMC		REMEDIAL DESIGN KERITE COMPANY FACILITIES SEYMOUR, CONNECTICUT
CHECKED BY BMC		PROPOSED CONSTRUCTION DAY STREET BRIDGE TO BUILDING ZSR SECTIONS AND DETAILS
DATE 3/1/12		458 HANNOCK BROOK DRIVE SUITE 201 GALATON, CONNECTICUT 06031 860-365-2262 FAX 860-366-2307 WWW.GEORGINA-TANTRUM.COM
	DAY STREET BRIDGE TO BUILDING ZSR SECTION AND DETAILS 115870	SHEET NO. 7 of 9 DWG. NO. G-7 REVISION 0



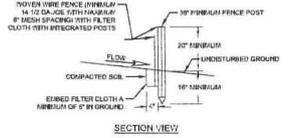
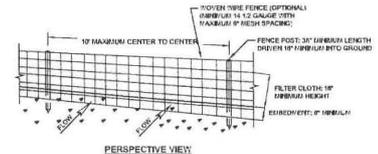
TEMPORARY CHECK DAM DETAIL (NOT TO SCALE)

TEMPORARY CHECK DAM NOTES:

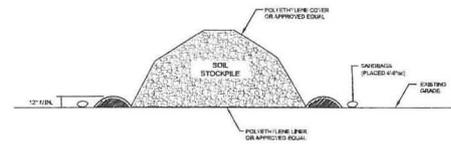
1. TEMPORARY CHECK DAMS MUST BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITY WITHIN THE WATERWAY.
2. MODIFIED RIPRAP SHALL CONSIST OF CT DOT SPECIFIED #1, 1/2" MODIFIED RIPRAP.
3. MAINTAIN TOP OF CHECK DAM ELEVATION CONSTANT ACROSS ENTIRE LENGTH.
4. TEMPORARY CHECK DAMS SHALL BE REMOVED AT THE END OF CONSTRUCTION.
5. TEMPORARY CHECK DAMS SHALL BE INSPECTED DAILY AND CLEANED OF SEDIMENT AS NECESSARY.

WOVEN SILT FENCE NOTES:

1. FASTEN WOVEN WIRE FENCE SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER 1" OR 1 1/2" TYPE OR HARDWOOD.
2. FASTEN FILTER CLOTH SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP AND MID-SECTION. FENCE SHALL BE WOVEN WIRE, 14 1/2 GAUGE, 4 INCH MAXIMUM MESH OPENING.
3. OVERLAP ADJACENT FILTER CLOTH SIX INCHES AND FOLD. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100A, STABILINKA T140H, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOPAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. PERFORM MAINTENANCE AS NEEDED AND REMOVE MATERIAL WHEN 'BULGES' DEVELOP.
6. FILTER FABRIC WITH INTEGRATED STAKES MAY BE USED INSTEAD OF WIRE FENCE.
7. ANY OPENINGS IN SILT FENCES REQUIRED FOR CONSTRUCTION ACCESS MUST BE COMPENSATED FOR BY PLACING 2 INCH CRUSHED STONE AROUND OPENING TO PREVENT INFILTRATION.



WOVEN SILT FENCE DETAIL (NOT TO SCALE)



TYPICAL COVERED STOCKPILE (NOT TO SCALE)



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STOCKPILE NOTES:
1. COVER ALL STOCKPILES OF DEBRIS, FILL OR OTHER MATERIALS ACCORDING TO THE DETAIL SHOWN.

NO.	DATE	DESCRIPTION	DES	DR	CH	APP
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DESIGNED BY BAC	Kerite	REMEDIAL DESIGN KERITE COMPANY FACILITIES SEYMOUR, CONNECTICUT			DWG. NO. G-8
CHECKED BY BAC		EROSION AND SEDIMENT CONTROL PLAN AND DETAILS			REVISION 0
APPROVED BY JPM	GEI	458 WINDING BROOK DRIVE SUITE 201 BLASTONBURY, CONNECTICUT 06033 860-268-8300 FAX 860-268-8307 700.1@KERITE.COM			SHEET NO. 8 of 9
DATE 3/1/2012		PROJECT 11507/2			

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