15-DAY PUBLIC NOTICE

US Army Corps of Engineers®
New England District
696 Virginia Road
Concord, MA 01742-2751

Comment Period Begins: October 9, 2012
Comment Period Ends: October 24, 2012
File Number: 2012-0210
In Reply Refer To: Amy Bourne
Phone: (978) 318-8651
E-mail: Amelia.C.Bourne@usace.army.mil

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

Applicant: Town of Glastonbury

ACTIVITY: Stormwater drainage construction in order to alleviate severe flooding in the project area.

A detailed description and plans of the activity are attached.

WATERWAY AND LOCATION OF THE PROPOSED WORK
This work is proposed in wetlands adjacent to the Connecticut River at the intersection of Dug Road and Tryon Street, Glastonbury, CT. The site coordinates are: 41 39 39 Latitude 72 3705 Longitude.

AUTHORITY
Permits are required pursuant to:
_X_ Section 10 of the Rivers and Harbors Act of 1899
_X_ 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 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.

ESSENTIAL FISH HABITAT

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH).

This project will impact approximately 400 square feet of Essential Fish Habitat *(EFH)* for specific species and life stages (see attached sheet for the list). This habitat consists of sandy substrate immediately channelward of the mean high water line. Loss of this habitat may adversely affect one or more of the listed species. However, the District Engineer has made a preliminary determination that the site-specific adverse effect will not be substantial. Further consultation with the National Marine Fisheries Service regarding EFH conservation recommendations is being conducted and will be concluded prior to the final decision.

NATIONAL HISTORIC PRESERVATION ACT

Based on his initial review, the District Engineer has determined that little likelihood exists for the proposed work to impinge upon properties with cultural or Native American significance, or listed in, or eligible for listing in, the National Register of Historic Places. Therefore, no further consideration of the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended, is necessary. This determination is based upon one or more of the following:

a. The permit area has been extensively modified by previous work.

b. The permit area has been recently created.

c. The proposed activity is of limited nature and scope.

d. Review of the latest published version of the National Register shows that no presence of registered properties listed as being eligible for inclusion therein are in the permit area or general vicinity.

e. Coordination with the State Historic Preservation Officer and/or Tribal Historic Preservation Officer(s)

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 (PM name) at (978) 318-8xxx, (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.

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 <u>NOT</u> 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 by email, 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: _____
PHONE: _____

PROPOSED WORK AND PURPOSE

The work includes the discharge of dredged or fill material and associated excavation for the construction of a stormwater drainage system in order to alleviate severe flooding at the intersection of Dug Road and Tryon Street in Glastonbury, CT. As a result of the project, the existing drainage area will increase from 101 acres to 152 acres, resulting in more frequent flooding of the wetlands adjacent to the Connecticut River. A 1,650 foot-long, 48-inch diameter pipe will be installed to the north of 302 and 306 Tryon Street and will discharge into rip rap scour hole in a low-lying wetland area to the west. A weir structure set at elevation 7.5 will be installed at the western end of the wetland in order to relieve flooding in the agricultural fields to the south as a result of the increased stormwater flows into the wetland. As a result of the weir, the maximum water surface elevation within the wetland will be at or below pre-development conditions. A permanent pool of water will remain in the wetland between elevations 5.0 and 7.5. A second, 550 foot-long, 36-inch diameter pipe will be installed to the west of the weir, to the north of an existing drainage swale that will discharge into a rip rap apron and then directly to the Connecticut River. Direct and permanent impacts to inland wetlands are 5,700 square feet (0.13 acres). Direct and permanent impacts to tidal wetlands are 900 square feet (0.02 acres).

Stormwater treatment includes the treatment of 25,000 cubic feet with an off-line particle separator that will serve as a pre-treatment for an underground infiltration system; deep sump catch basins where feasible; and lining approximately 875 linear feet of a drainage channel with rip rap to the north of the stormwater piping on Dug Road. The final stormwater treatment plan will be in accordance with the 2004 Connecticut Stormwater Quality Manual standards.

The work is described on the enclosed plans entitled "PLAN DEPICTING PROPOSED DRAINAGE SYSTEM" (8 sheets) and dated "3/15/12 and 8/15/12."

MITIGATION

Four project alternatives were considered to account for avoidance and minimization to wetlands in light of the property rights/easement restrictions associated with the project. Compensatory mitigation will not be required for this project, due to the inherent improvements in stormwater quality that will result.

Summary of Essential Fish Habitat (EFH) Designation

10◆ x 10◆ Square Coordinates:

-

Boundary	North	East	South	West
Coordinate	41° 50.0◆ N	72° 20.0◆ W	41° 40.0◆ N	72° 30.0◆ W

-

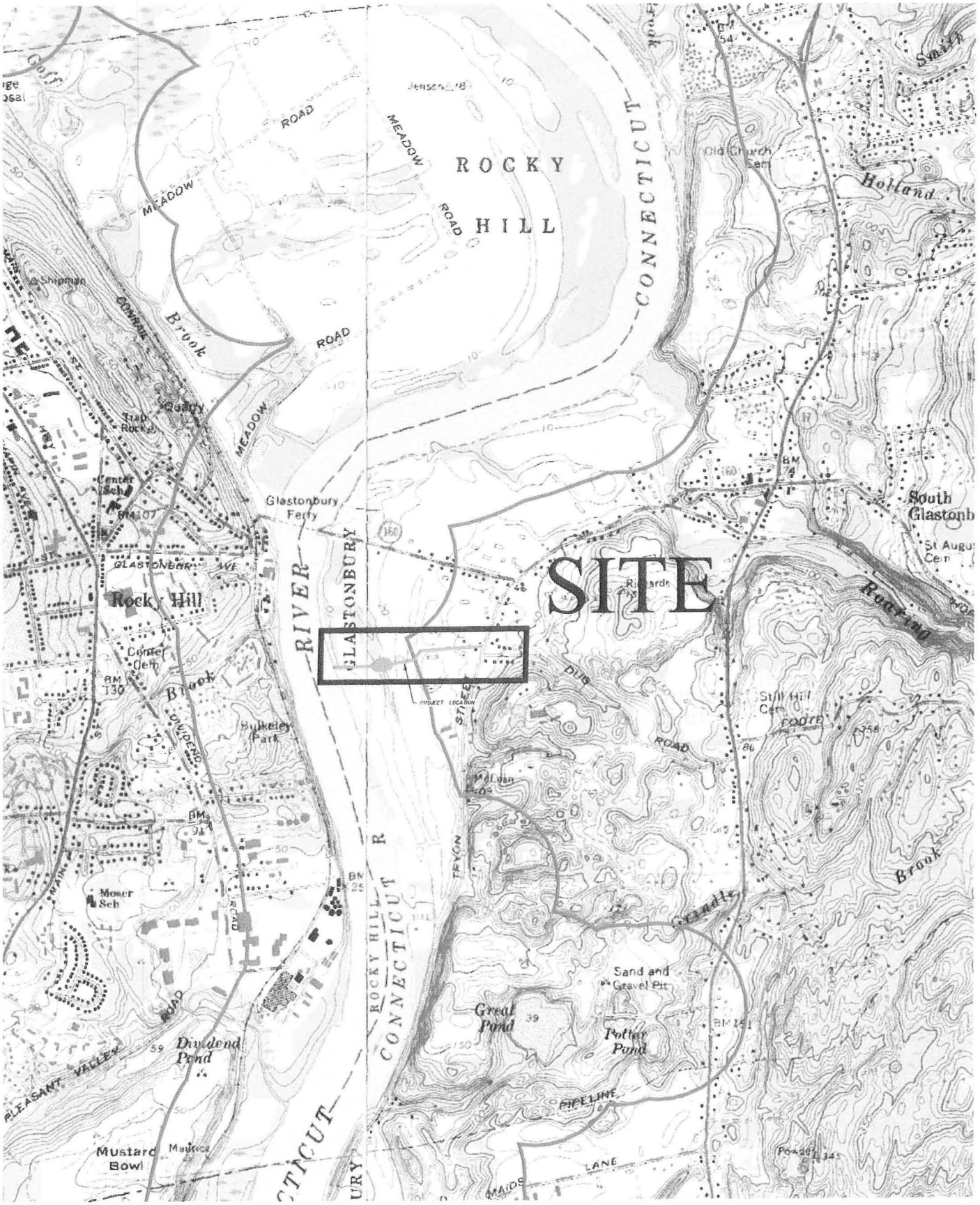
Square Description (i.e. habitat, landmarks, coastline markers): The waters within the square within the Connecticut River estuary affecting the following: within the Connecticut River, from Rocky Hill, CT on the south, north past all the following listed features up to the northern part of Hartford CT. The features affected are: Glastonbury Two Piers Bar Channel, Goff Brook, Glastonbury Bar, Glastonbury Upper Bar Channel, Glastonbury Meadows, Press Barn Bar, Crow Pt., Naubuc Bar, Cys Hollow Bar, Wethersfield, CT., Keeney Pt., Keeney Cove, Brainard Airport, Clay Banks Bar, Clay Banks Bar Channel, Hartford Jetty, Hartford Bar, Hockanum River, Hartford, CT., East Hartford, CT., and the Podunk River, juts north of Hartford, CT.

Species	Eggs	Larvae	Juveniles	Adults
Atlantic salmon *(Salmo salar)*			X	X
Atlantic cod *(Gadus morhua)*				
haddock *(Melanogrammus aeglefinus)*				
pollock *(Pollachius virens)*			X	X
whiting *(Merluccius bilinearis)*				
offshore hake *(Merluccius albidus)*				
red hake *(Urophycis chuss)*	X	X	X	X
white hake *(Urophycis tenuis)*				
redfish *(Sebastes fasciatus)*	n/a			

witch flounder *(Glyptocephalus cynoglossus)*				
winter flounder *(Pseudopleuronectes americanus)*				
yellowtail flounder *(Limanda ferruginea)*				
windowpane flounder *(Scophthalmus aquosus)*	X	X	X	X
American plaice *(Hippoglossoides platessoides)*				
ocean pout *(Macrozoarces americanus)*				
Atlantic halibut *(Hippoglossus hippoglossus)*				
Atlantic sea scallop *(Placopecten magellanicus)*				
Atlantic sea herring *(Clupea harengus)*			X	X
monkfish *(Lophius americanus)*				
bluefish *(Pomatomus saltatrix)*			X	X
long finned squid *(Loligo pealeii)*	n/a	n/a		
short finned squid *(Illex illecebrosus)*	n/a	n/a		
Atlantic butterfish *(Peprilus triacanthus)*				
Atlantic mackerel *(Scomber scombrus)*				
summer flounder *(Paralichthys dentatus)*				
scup *(Stenotomus chrysops)*	n/a	n/a		
black sea bass *(Centropristis striata)*	n/a			
surf clam *(Spisula solidissima)*	n/a	n/a		

ocean quahog *(Artica islandica)*	n/a	n/a		
spiny dogfish *(Squalus acanthias)*	n/a	n/a		
tilefish *(Lopholatilus chamaeleonticeps)*				

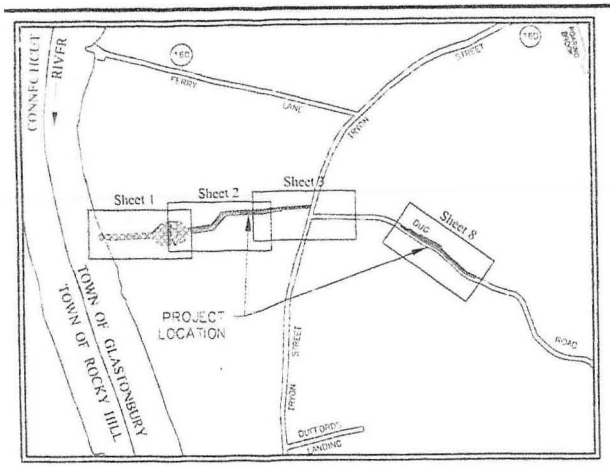
FILE H:\DWG\Streets\Tryon St\PW-9278 Tryon St-Dug Rd Drainage\Tryon St Drainage - USGS.dwg USER Charles Steinhilper DATE 7/25/2007



DATE:	8/26/2011
SCALE:	1"=1000'
DRAWN BY:	C.F.S.
CHECKED BY:	S.M.B.
APPROVED BY:	

GRID NORTH

AREA MAP
SHOWING REPAIR SITE ON
USGS QUAD. w/ BIO-DIVERSITY AREA
LOCATED IN THE VICINITY OF
HOUSE No. 308 TRYON STREET
GLASTONBURY CONNECTICUT



LOCATION MAP

SCALE: 1" = 2000'

NOTE:

WETLAND DATA DEPICTED HEREON WAS FLAGGED ON 8/15/2011 BY R. RICHARD SNARSKI REREGISTERED SOIL SCIENTIST AND FIELD SURVEY CONDUCTED 8/19/2011.

NOTE:

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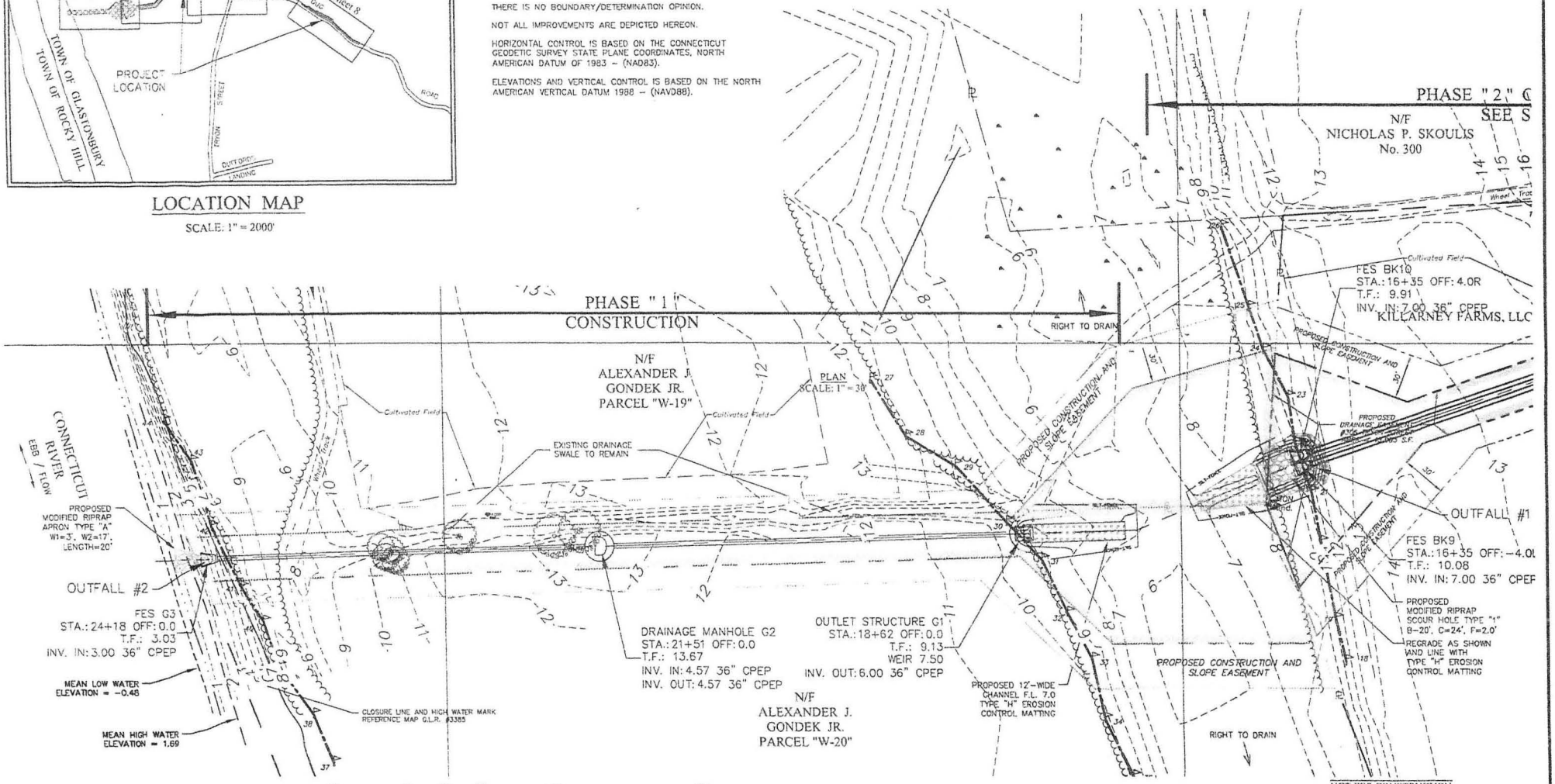
ELEVATIONS AND VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 – (NAVD88).

REFERENCE FOR FLOOD WAY AND FLOOD ZONES IS MADE TO FLOOD INSURANCE RATE MAP ENTITLED:

NATIONAL FLOOD INSURANCE PROGRAM PANEL 0536F FIRM FLOOD INSURANCE RATE MAP HARTFORD COUNTY, CONNECTICUT (ALL JURISDICTIONS) PANEL 536 OF 675 MAP NUMBER 09003C0536F U.S. DEPARTMENT OF HOMELAND SECURITY EFFECTIVE DATE: SEPTEMBER 26, 2008 FEDERAL EMERGENCY MANAGEMENT AGENCY



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PW-9278

NO.	DESCRIPTION	DATE
1.	----	----

DRAWING ISSUE STATUS

SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	8/15/2012
CHECKED BY: S.M.B.	8/15/2012
APPROVED BY: G.A.P.	8/15/2012
ST. FILE:	

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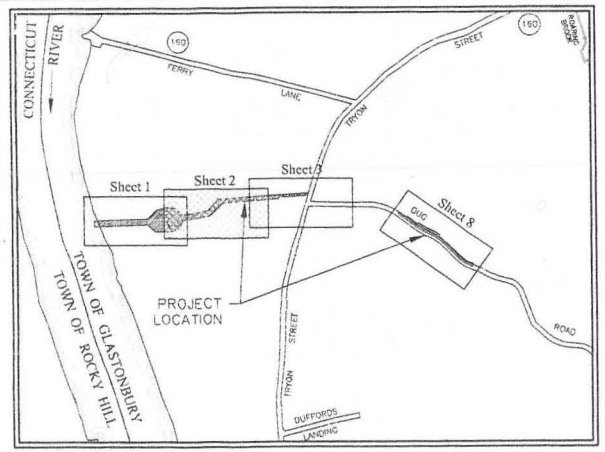
GRID NORTH

PLAN DEPICTING
PROPOSED DRAINAGE SYSTEM
TO BE BUILT FROM DUG ROAD ACROSS THE LAND OF
ALEXANDER GONDEK
located Behind
308 TRYON STREET
GLASTONBURY, CONNECTICUT

SHEET NO. 1 OF 7



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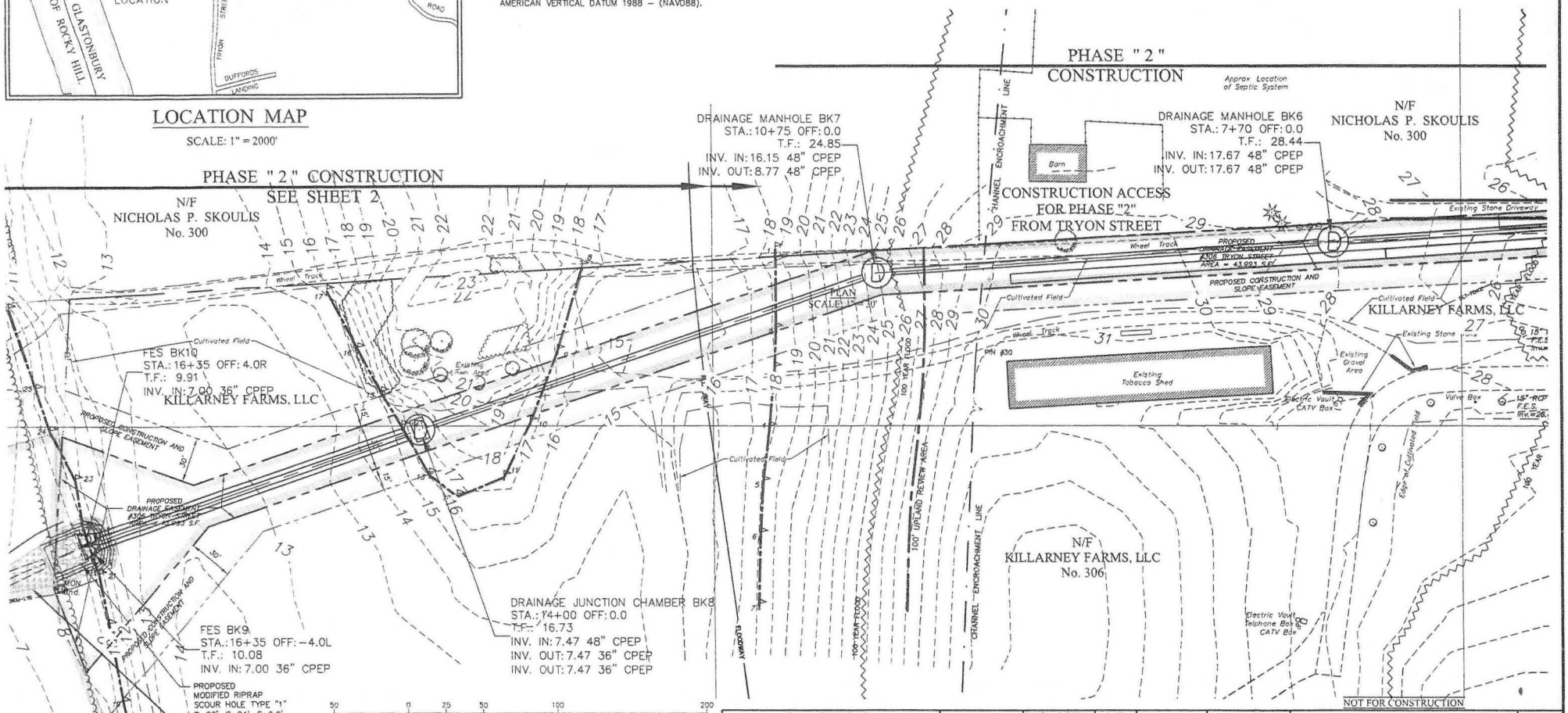

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PW-9278

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APPROVED BY: D.A.P.	8/15/2012
ST. FILE:	

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GRID NORTH

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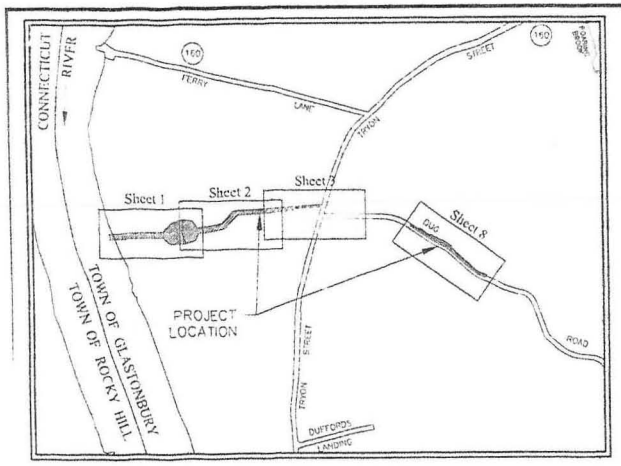
PLAN DEPICTING
PROPOSED DRAINAGE SYSTEM
TO BE BUILT FROM DUG ROAD ACROSS THE LAND OF
KILLARNEY FARMS, LLC
located Behind
306 TRYON STREET
GLASTONBURY, CONNECTICUT

SHEET NO. 2 OF 8



LOCATION MAP

SCALE: 1" = 2000'

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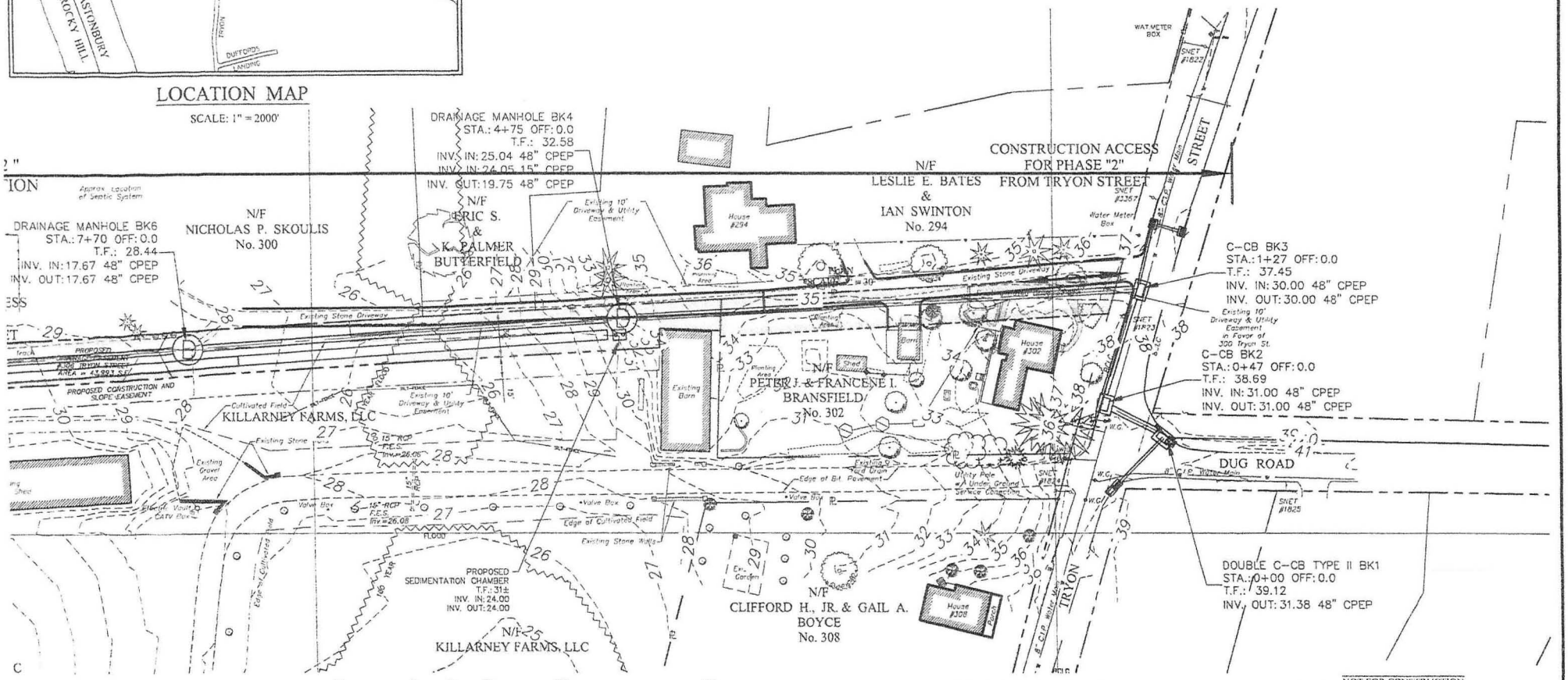

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APPROVED BY: D.A.P.	-----
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GRID NORTH

NOT FOR CONSTRUCTION

PLAN DEPICTING
PROPOSED DRAINAGE SYSTEM
TO BE BUILT FROM DUG ROAD ACROSS THE LAND OF
BOYCE & SWINTON
located Behind
302 & 294 TRYON STREET
GLASTONBURY, CONNECTICUT

SHEET NO. 3 OF 8

NOTE:

LOCATION OF FEATURES AND CONTOUR DATA DEPICTED HEREON WHERE ACQUIRED THROUGH FIELD SURVEY CONDUCTED FROM \ TO \ SUPPLEMENTED 5-2011.

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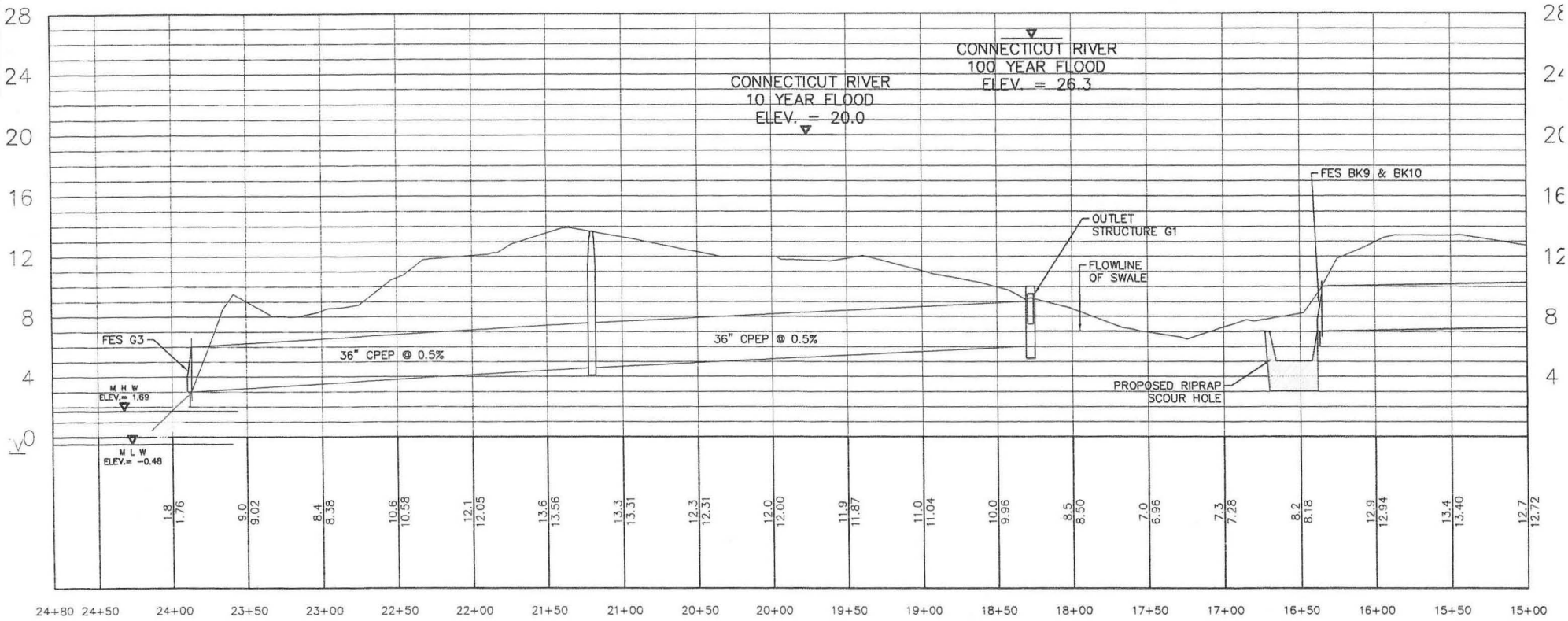

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PW-9278

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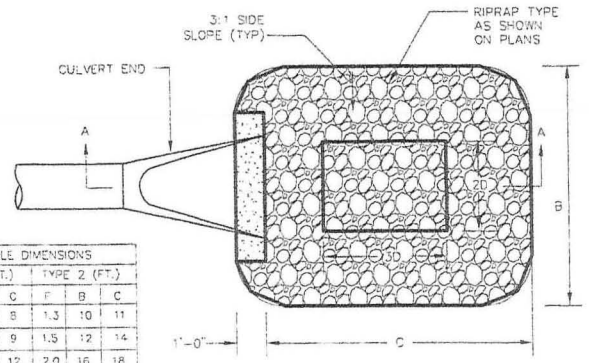
GRID NORTH

NOT FOR CONSTRUCTION

PROFILE DEPICTING
PROPOSED DRAINAGE SYSTEM
TO BE BUILT FROM DUG ROAD ACROSS THE LAND OF
ALEXANDER GONDEK
located Behind
308 TRYON STREET
GLASTONBURY, CONNECTICUT

SHEET NO. 4 OF 8

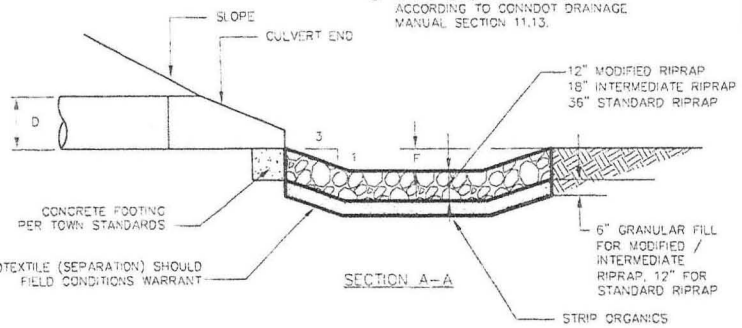


SCOUR HOLE DIMENSIONS						
(IN.)	TYPE 1 (FT.)			TYPE 2 (FT.)		
D	F	B	C	F	B	C
15	0.63	6	8	1.3	10	11
18	0.75	8	9	1.5	12	14
24	1.00	10	12	2.0	16	18
30	1.25	13	15	2.5	20	23
36	1.50	15	18	3.0	24	27
42	1.75	18	21	3.5	28	32
48	2.00	20	24	4.0	32	36
54	2.25	23	27	4.5	36	41
60	2.50	25	30	5.0	40	45

PLAN VIEW

NOTES:

1. DETAIL TO BE USED IN LOCATIONS WHERE FLOWS EXCEED CAPACITY OF RIPRAP APRONS AS PER CONNDOT DRAINAGE MANUAL
2. RIPRAP SIZE SHALL BE COMPUTED ACCORDING TO CONNDOT DRAINAGE MANUAL SECTION 11.13.



SECTION A–A

SCALE : NONE	TOWN OF GLASTONBURY DEPARTMENT OF PHYSICAL SERVICES ENGINEERING DIVISION
DRAWN BY: SR	
CHECKED BY: SMB	PREFORMED SCOUR HOLE TYPE 1 & TYPE 2
APPROVED BY: DAP	
LAST REVISED: 3 4/2008	PLATE NO. 27

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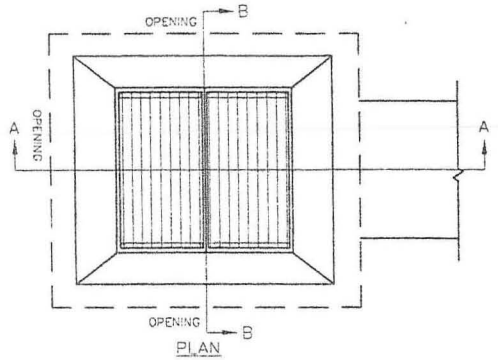

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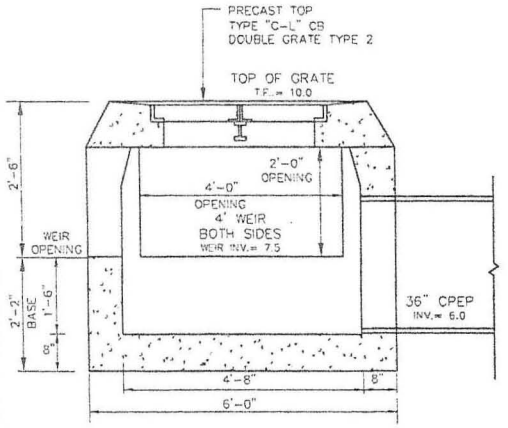
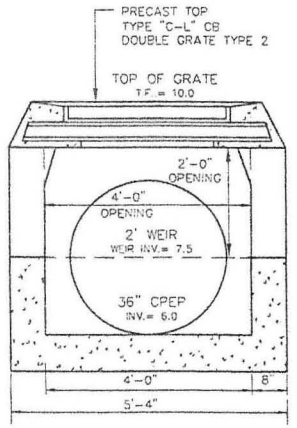


SECTION A–A



SECTION B–B

OUTLET STRUCTURE - G-1
TYPE C-L CB
DOUBLE GRATE TYPE 1

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DRAWING ISSUE STATUS		
1.	———	———
NO.	DESCRIPTION	DATE

PW-9278

SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	8/15/2012
CHECKED BY: S.M.B.	8/15/2012
APPROVED BY: D.A.P.	8/15/2012
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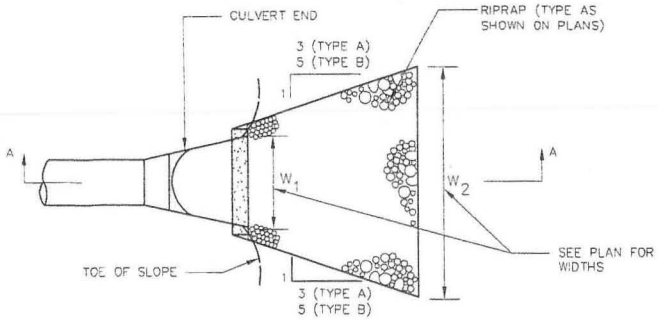
GRID NORTH

NOT FOR CONSTRUCTION

CONSTRUCTION DETAILS
PROPOSED DRAINAGE SYSTEM
TO BE BUILT FROM DUG ROAD ACROSS THE LAND OF
ALEXANDER GONDEK
located Behind
308 TRYON STREET
GLASTONBURY, CONNECTICUT

SHEET NO 5 OF 8



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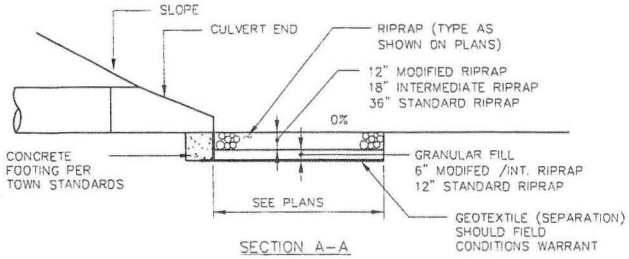

SECTION A–A

RIPRAP SPECIFICATION

OUTLET VELOCITY	RIPRAP TYPE
0–8 FPS	MODIFIED
8–10 FPS	INTERMEDIATE
10–14 FPS	STANDARD

NOTES:

1. DETAIL TO BE USED FOR OUTFALLS WHERE NO WELL DEFINED CHANNEL EXISTS.
2. APRON DIMENSIONS TO BE COMPUTED PER SECTION 11.13 OF CONNDOT DRAINAGE MANUAL.
3. TYPE B SHALL BE USED FOR LOCATIONS WHERE TAILWATER > ½ PIPE DIAMETER.

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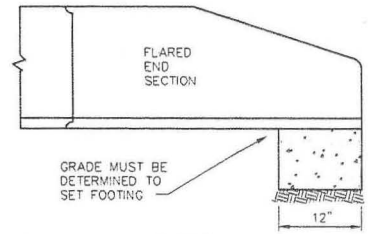
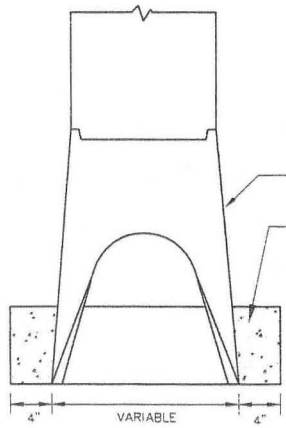
DRAWN BY: SR	
CHECKED BY: SMB	
APPROVED BY: DAP	RIPRAP APRON TYPE A AND TYPE B
LAST REVISED: 3/4/2008	PLATE NO. 25

NOTES:

1. FOOTING BASE MAY BE CONSTRUCTED OF POURED IN PLACE CONCRETE OR PRECAST C.B. BLOCKS SET LEVEL WITH FULL MORTARED JOINTS
2. THE FOOTING SHALL BE USED ON BOTH INLET AND OUTLET SECTIONS, THE PRIME FUNCTION IS TO PREVENT EROSION AND SETTLEMENT.



ELEVATION



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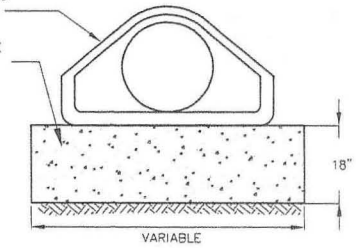

FIRM NATURAL GROUND OR CRUSHED STONE BASE

SECTION

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SCALE : NONE	TOWN OF GLASTONBURY DEPARTMENT OF PHYSICAL SERVICES ENGINEERING DIVISION
DRAWN BY: SR	
CHECKED BY: SMB	
APPROVED BY: DAP	CONCRETE FOOTING FOR FLARED END SECTION
LAST REVISED: 4/29/2008	PLATE NO. 24

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GRID NORTH

NOT FOR CONSTRUCTION

CONSTRUCTION DETAILS
PROPOSED DRAINAGE SYSTEM
TO BE BUILT FROM DUG ROAD ACROSS THE LAND OF
ALEXANDER GONDEK
located Behind
308 TRYON STREET
GLASTONBURY, CONNECTICUT

SHEET NO. 6 OF 8

PROJECT NARRATIVE:

THE PROPOSED PROJECT INCLUDES THE CONSTRUCTION OF CATCH BASINS AT THE INTERSECTION OF TRYON STREET AND DUG ROAD AND THE INSTALLATION OF A 1,650 FOOT-LONG, 48-INCH DIAMETER STORM DRAINAGE DISCHARGE PIPE ALONG THE NORTH SIDE OF THE PROPERTIES LOCATED AT #302 AND #306 TRYON STREET TO A DISCHARGE AT THE LOW-LYING WETLAND AREA AT THE WESTERN LIMIT OF THE #306 PARCEL (OUTFALL #1). A SECOND 550 FOOT-LONG, 36-INCH DIAMETER STORM DRAINAGE PIPE WILL EXTEND FROM THE WEST SIDE OF THE LOW-LYING WETLAND ACROSS LOT W-20 TRYON STREET TO A NEW DISCHARGE AT THE CONNECTICUT RIVER (OUTFALL #2). THIS PIPE WILL SERVE AS AN OVERFLOW FOR THE WETLAND TO MINIMIZE INUNDATION OF ADJACENT AGRICULTURAL FIELDS BY STORMWATER FROM DUG ROAD DURING PERIODS WHEN THE RIVER IS NOT AT FLOOD STAGE. ALSO INCLUDED IN THE PROJECT ARE IMPROVEMENTS TO A DRAINAGE CHANNEL ALONG THE NORTH SIDE OF DUG ROAD TO PROVIDE FOR INFILTRATION AND A STABLE CHANNEL LINING.

CONSTRUCTION SEQUENCE:

THIS PROJECT WILL BE CONSTRUCTED IN THREE PHASES. PHASE 1 WILL CONSIST OF CONSTRUCTION OF THE 550 FOOT-LONG 36-INCH DIAMETER STORM PIPE FROM OUTFALL #2 (CT RIVER) TO THE LOW-LYING WETLAND AREA. THIS PHASE OF CONSTRUCTION WILL BE ACCESSED FROM FERRY LANE OVER EXISTING FARM ROADS. PHASE 2 WILL INCLUDE CONSTRUCTION OF THE 1,650 FOOT-LONG 48-INCH DIAMETER STORM DRAIN FROM OUTFALL #1 TO DUG ROAD. THIS PHASE WILL BE ACCESSED FROM TRYON STREET USING A COMBINATION OF EXISTING DRIVEWAYS AND FARM ROADS. PHASE 3 WILL INCLUDE ALL DRAINAGE CHANNEL IMPROVEMENTS ALONG THE NORTH SIDE OF DUG ROAD. THE EROSION AND SEDIMENTATION CONTROL PLAN FOR PHASE 3 WORK IS NOT INCLUDED IN THIS SECTION, BUT RATHER IS DESCRIBED ON SHEET 7 OF THE PLAN SET.

FLOOD ZONE CONSIDERATIONS:

ALL OF PHASE 1 AND A PORTION OF PHASE 2 ARE WITHIN THE CONNECTICUT RIVER FLOOD ZONE. AS SUCH, ALL CONSTRUCTION WITHIN THIS AREA WILL NEED TO TAKE PLACE AFTER THE NORMAL SPRING FLOODS HAVE RECEDED AND WITH CLOSE MONITORING OF THE CONNECTICUT RIVER FLOW CONDITIONS AND WEATHER FORECASTS TO PROTECT THE WORK AREA FROM FLOODING. ONLY THAT PORTION OF THE WORK THAT CAN BE COMPLETED AND RESTORED THAT DAY OR PRIOR TO THE NEXT FORECASTED SEVERE WEATHER EVENT SHALL BE INITIATED.

DUE TO THE ELEVATIONS OF THE PIPELINE AT OUTFALL #2, THIS OUTFALL AND A PORTION OF THE DRAINAGE SYSTEM UPSTREAM OF THE OUTFALL IS BELOW THE HIGH TIDE LINE OF THE CONNECTICUT RIVER. THIS WILL REQUIRE THAT WORK AT THE OUTFALL BE PROPERLY SEQUENCED AND STAGED TO OCCUR DURING LOW TIDE AND LOW WATER FLOWS IN THE RIVER. IF CONSTRUCTION OF OUTFALL #2 PROCEEDS AT THE BEGINNING OF PHASE 1, THE OUTFALL PIPE SHALL BE SECURELY PLUGGED TO PREVENT RISING TIDE WATER FROM ENTERING THE REMAINDER OF THE PIPELINE DURING CONSTRUCTION. IF CONDITIONS DO NOT ALLOW FOR CONSTRUCTION OF THE OUTFALL WHEN CONSTRUCTION IS INITIATED, CONSTRUCTION MAY BEGIN WITHIN 30 FEET UPSTREAM OF THE OUTFALL AND PROCEED IN SUCH A MANNER SO AS TO PRESERVE A SOIL BARRIER BETWEEN THE PIPELINE AND THE CONNECTICUT RIVER TO PREVENT INUNDATION OF THE WORK AREA.

PROJECT SPECIFIC SEDIMENTATION AND EROSION CONTROL PLAN

CONSTRUCTION ACTIVITIES OF CONCERN RELATIVE TO THE PROTECTION OF ADJACENT WETLANDS AND WATERCOURSES FROM SEDIMENTATION ARE AS FOLLOWS:

1. DEWATERING: OPEN TRENCH EXCAVATIONS WILL NEED TO BE DEWATERED AS NECESSARY FOR PROPER INSTALLATION OF THE PROPOSED PIPES. IN THESE AREAS, ALL WATER REMOVED FROM THE TRENCH SHALL BE ADEQUATELY TREATED PRIOR TO DISCHARGE USING MEASURES DESCRIBED IN SECTION 5-13 OF THE 2002 CT GUIDELINES FOR EROSION AND SEDIMENT CONTROL. THIS MAY INCLUDE A STONE SUMP AND STANDPIPE FOR PUMP INTAKE PROTECTION, AND A DIRT BAG OR PUMPING SETTLING BASIN FOR TREATMENT OF THE PUMPED WATER PRIOR TO DISCHARGE.

2. STOCKPILING: EXCAVATED MATERIAL SHALL NOT BE STOCKPILED WITHIN THE CONNECTICUT RIVER FLOOD ZONE TO THE EXTENT PRACTICAL. WHEN IT IS NECESSARY BASED ON THE PROPOSED METHODS OF CONSTRUCTION TO STAGE EXCAVATED MATERIAL FOR SHORT DURATIONS IN THE FLOOD ZONE, THESE MATERIALS SHALL BE ADEQUATELY PROTECTED, AND A PLAN SHALL BE IN PLACE TO REMOVE THE MATERIAL BEFORE THE NEXT SEVERE WEATHER EVENT. LONGER DURATION STOCKPILING OF MATERIAL, WHEN NECESSARY, SHALL BE ONLY IN LOCATIONS APPROVED IN ADVANCE BY THE ENGINEER. ANY SUCH STOCKPILES SHALL BE RINGED WITH A SEDIMENTATION CONTROL SYSTEM.

3. DISTURBED AREAS: LIMITS OF DISTURBANCE SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED PLAN. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH THE FINAL SURFACE TREATMENT AS SOON AS POSSIBLE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED. DISTURBED AREAS WITH STEEP OR LONG SLOPES AND OTHER AREAS WITH SIGNIFICANT POTENTIAL FOR CAUSING SEDIMENTATION SHALL BE PROTECTED WITH TEMPORARY STRAW MULCH, WOOD CHIPS, EROSION CONTROL MATTING, OR OTHER SUITABLE MATERIALS PRIOR TO SIGNIFICANT FORECASTED RAIN STORM EVENTS TO REDUCE EROSION POTENTIAL.

4. TRAVEL AREAS: A STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS REQUIRED TO PREVENT SOIL FROM BEING TRACKED OUT OF THE CONSTRUCTION SITE AND INTO THE ROAD. THIS CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS OF THE PROJECT HAVE BEEN RESTORED.

5. SEVERE WEATHER CONTINGENCY PLAN: IN ADVANCE OF A SEVERE WEATHER EVENT, ALL EROSION CONTROLS DESCRIBED ABOVE AND ELSEWHERE ON THE PLANS SHALL BE INSPECTED AND ADJUSTED AS NECESSARY.

RESPONSIBLE PARTIES:

THE DEPARTMENT OF PHYSICAL SERVICES SHALL PROVIDE A REPRESENTATIVE WHO IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENTATION CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF ALL CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.

GENERAL SEDIMENTATION AND EROSION CONTROL REQUIREMENTS:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE DEPARTMENT OF PHYSICAL SERVICES SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

CONSTRUCTION METHODS, IN GENERAL, SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

1. ALL CONTROL MEASURES SHALL BE INSTALLED AS NOTED ABOVE AND AS SHOWN ON THE PLANS.
2. ALL CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK, INCLUDING PRE-CONSTRUCTION CLEARING AND GRUBBING.
3. ALL CONTROL MEASURES SHALL BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
4. NO CONTROL MEASURES SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.
5. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY BY THE ENGINEER.
6. THE LIMITS OF CLEARING, GRADING AND DISTURBANCE, AS SHOWN ON THE PLAN(S), SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CLEARING SHALL REMAIN TOTALLY INDISTURBED.
7. ANY CONTROL MEASURES RETAINING SEDIMENT OVER 1/2 THEIR HEIGHT SHALL HAVE THE SEDIMENT IMMEDIATELY REMOVED, AND ALL DAMAGED CONTROL MEASURES SHALL BE REMOVED AND REPLACED.
8. ALL NEW AND EXISTING CATCH BASINS LOCATED WITHIN THE PROJECT LIMITS SHALL BE PROTECTED WITH A SEDIMENTATION CONTROL SYSTEM IN GRASSED AREAS OR WITH A SEDIMENTATION CONTROL SACK IN PAVED AREAS UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
9. SEDIMENT REMOVED FROM CONTROL MEASURES AND DRAINAGE FACILITIES SHALL BE DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH STATE AND LOCAL REGULATIONS.
10. THE PLANTING SEASONS FOR THE SPECIFIED SEED MIXTURE SHALL BE AS DEFINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, UNLESS DIRECTED OTHERWISE BY THE TOWN ENVIROMENTAL PLANNER. OUTSIDE OF THESE SPECIFIED DATES, AREAS WILL BE STABILIZED WITH HAYBALE CHECK DAMS, FILTER FABRIC, OR WOODCHIP MULCH AS REQUIRED TO CONTROL EROSION.

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PW-9278

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GRID NORTH

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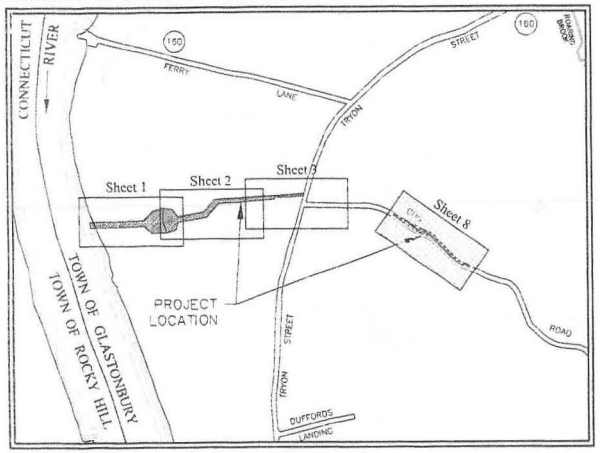
EROSION CONTROL NOTES
PROPOSED DRAINAGE SYSTEM
TO BE BUILT FROM DUG ROAD ACROSS THE LAND OF
ALEXANDER GONDER
located behind
308 TRYON STREET
GLASTONBURY, CONNECTICUT

SHEET NO. 7 OF 8



LOCATION MAP

SCALE: 1" = 2000'

NOTE:

WETLAND DATA DEPICTED HEREON WAS FLAGGED ON 8/15/2011 BY R. RICHARD SNARSKI REGISTERED SOIL SCIENTIST AND FIELD SURVEY CONDUCTED 8/19/2011.

NOTE:

LOCATION OF FEATURES AND CONTOUR DATA DEPICTED HEREON WHERE ACQUIRED THROUGH FIELD SURVEY CONDUCTED MARCH 2012.

THERE IS NO BOUNDARY/DETERMINATION OPINION.

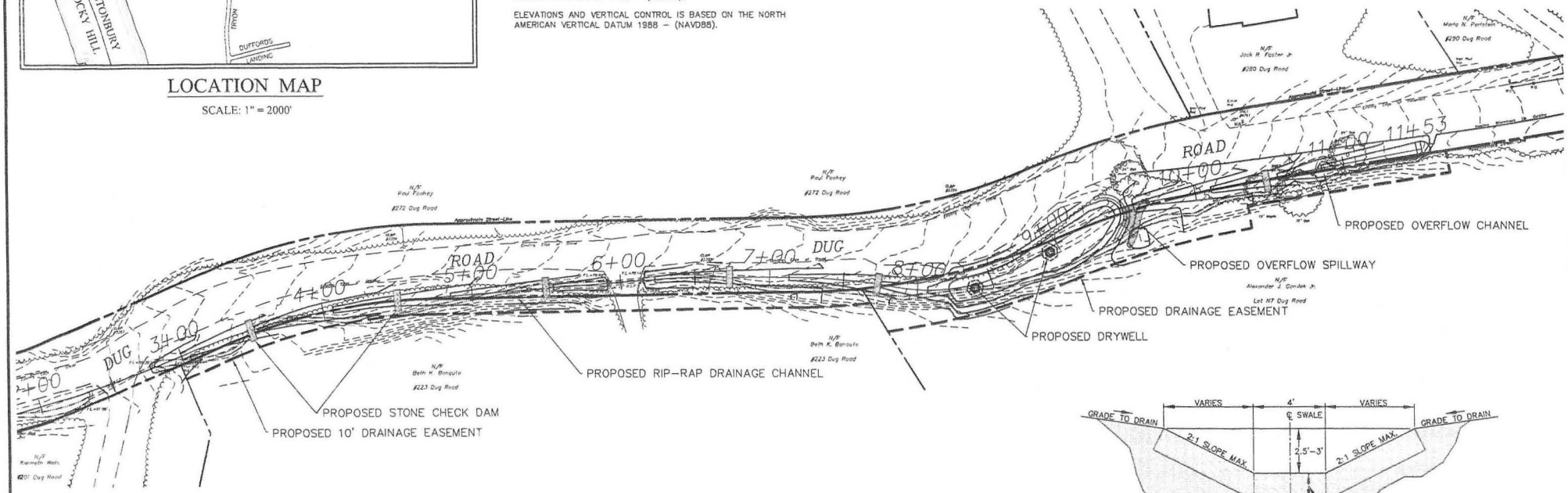
NOT ALL IMPROVEMENTS ARE DEPICTED HEREON.

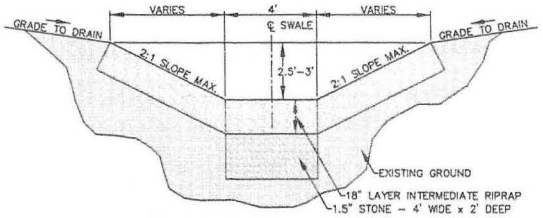
HORIZONTAL CONTROL IS BASED ON THE CONNECTICUT GEODETIC SURVEY STATE PLANE COORDINATES, NORTH AMERICAN DATUM OF 1983 – (NAD83).

ELEVATIONS AND VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 – (NAVD88).

REFERENCE FOR FLOOD WAY AND FLOOD ZONES IS MADE TO FLOOD INSURANCE RATE MAP ENTITLED:

NATIONAL FLOOD INSURANCE PROGRAM PANEL 0536F FIRM FLOOD INSURANCE RATE MAP HARTFORD COUNTY, CONNECTICUT (ALL JURISDICTIONS) PANEL 536 OF 675 MAP NUMBER 09003C0536F U.S. DEPARTMENT OF HOMELAND SECURITY EFFECTIVE DATE: SEPTEMBER 26, 2008 FEDERAL EMERGENCY MANAGEMENT AGENCY





RIPRAP CHANNEL–TYPICAL SECTION

NOTE:
FOR GRADATION OF STANDARD, INTERMEDIATE, AND MODIFIED RIPRAP, SEE SECTION 3.12 OF THE PUBLIC IMPROVEMENT STANDARDS

ALL UTILITY INFORMATION AND DATA SHOWN OR INDICATED IN THE CONTRACT DOCUMENTS ARE COMPILED FROM MAPS AND DATA FURNISHED BY OTHERS. ANY SUCH INFORMATION SHOULD NOT BE CONSTRUED AS ACCURATE OR COMPLETE AND THE CONTRACTOR SHALL VERIFY ALL LOCATIONS PRIOR TO CONSTRUCTION.

50 0 25 50 100 200

GRAPHIC SCALE 1" = 100'

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PLAN DEPICTING
PROPOSED DRAINAGE IMPROVEMENTS
TO BE BUILT FROM
HOUSE NUMBER 201 TO LOT N7
located Along the North Side of
DUG ROAD
GLASTONBURY, CONNECTICUT

SHEET NO. 8 OF 8