



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

PUBLIC NOTICE

Comment Period Begins: May 22, 2012
Comment Period Ends: June 22, 2012
File Number: NAE-2012-00334
In Reply Refer To: Barbara Newman
Phone: (978) 318-8515
E-mail: Barbara.h.newman@usace.army.mil

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

APPLICANT Waterbury Police Activity League (PAL)

ACTIVITY This project includes the discharge of fill below the ordinary high water mark of Great Brook to extend an existing culvert in order to create an athletic facility for the youths of Waterbury, CT.

WATERWAY AND LOCATION OF THE PROPOSED WORK

This work is proposed in Great Brook at 27 and 57 Division Street, Waterbury, CT. The site coordinates are: 41.5637 Latitude, -73.02835 Longitude and is located on the USGS Waterbury-CT quad map.

AUTHORITY

Permits are required pursuant to:

Section 404 of the Clean Water 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.

CENAE-R
FILE NO. NAE-2012-334

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.

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)

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

- Permit, License or Assent from State.
- Permit from Local Wetland Agency or Conservation Commission.
- 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 Barbara Newman at (978) 318-851, (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.

CENAE-R
FILE NO. NAE-2012-334

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 Police Activity League (PAL), a non-profit organization geared to helping inner city youths, proposes to build a park that will include four basketball courts, a multi-purpose court, a baseball diamond, a concession stand and a “river walk”, along a portion of Great Brook. In order to build this, PAL proposes to install a 5.5’ high x 9.5’ wide concrete box culvert in Great Brook, which will extend the existing culvert 135’ feet upstream. This section will then be covered by gravel and dirt to create the baseball field. This extension will require the discharge of 2100 square feet of fill below the ordinary high water mark of Great Brook. In addition, approx. 500 square feet of riprap will be added to the eastern bank of the stream.

Mills and factories operated along Great Brook as early as the mid-1800s, which resulted in diversion and channelization of Great Brook through most of its length in the City, including through underground culverts beneath buildings. The property is also contaminated from these past industrial activities and is part of the U.S. Environmental Protection Agency’s (EPA) Brownfield program. PAL applied for and received two grants from the EPA to oversee the remediation of soil and ground water contamination, guided by the EPA approved Remedial Action Plan. This site measures 2.1 acres for the 27 Division Street parcel and 0.5 acre for the 57 Division Street parcels and is located in Waterbury, Connecticut. Structures at the site have been demolished with environmental remediation work set to begin.

Great Brook originates 2525 feet north of the site at the outlet of the Great Brook Reservoir. Within the project area, Great Brook flows southwest for 430 feet before being diverted underground. It ranges from 10-15 feet wide at bankfull width, and is highly channelized with steep banks and the inability to maintain natural meanders, stream flow, and connection to the floodplain. The function and values of the riparian area along the river at the site is limited due to its narrow width and presence of invasive species; and along non-vegetated areas, is highly developed. However, along the northern portion of the Brook at the site, there is significant canopy cover due to the forested riparian areas. The project is surrounded by urban residential and commercial properties, interspersed with sporadic forested areas. The work is described on the enclosed plans entitled “Waterbury Police Activity League, #27 & #57 Division Street, Waterbury Connecticut” on twelve (12) sheets, and dated “May 13, 2012.”

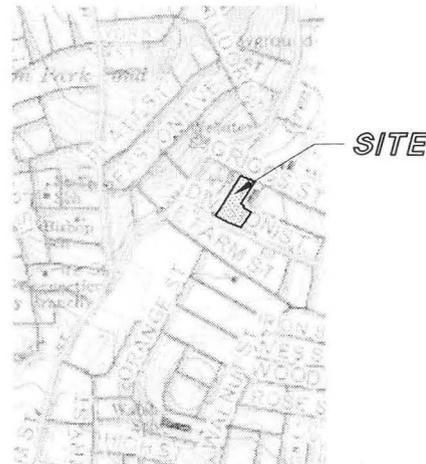
The applicant states that it is not possible to avoid covering the stream unless they eliminate the baseball field entirely; however, this part of the city, and the city as a whole, has a shortage of baseball fields. In addition, it must be placed in this location of the site in order to be sized appropriately. The applicant also looked at a parcel on Cemetery Road in Waterbury, but felt that it is too far from the population PAL is serving, and the site has uneven terrain and wetlands, which make it more difficult to design a park there.

The applicant will use best management practises to minimize impacts to the stream and bordering wetlands during construction, including doing construction during low water periods and using silt fences. PAL proposes compensation for impacts to the stream by improving the functions and values of the remaining approx. 280 feet of stream which will be left uncovered; the introduction of a riparian shelf on the eastern side of the brook, and the planting of native wetland and upland plants will provide habitat for wildlife and increase the aesthetic value of the landscape.

WATERBURY POLICE ATHLETIC LEAGUE

#27 & #57 DIVISION STREET
WATERBURY, CONNECTICUT

ASSESSOR'S MAP 218, BLOCK 192, LOTS 139 & 141



VICINITY MAP

1" = 2000'

OWNER/APPLICANT
WATERBURY POLICE ATHLETIC LEAGUE, INC.
64 DIVISION STREET
WATERBURY, CT

ENGINEER
CIVIL 1
43 SHERMAN HILL ROAD, SUITE D-101
WOODBURY, CT

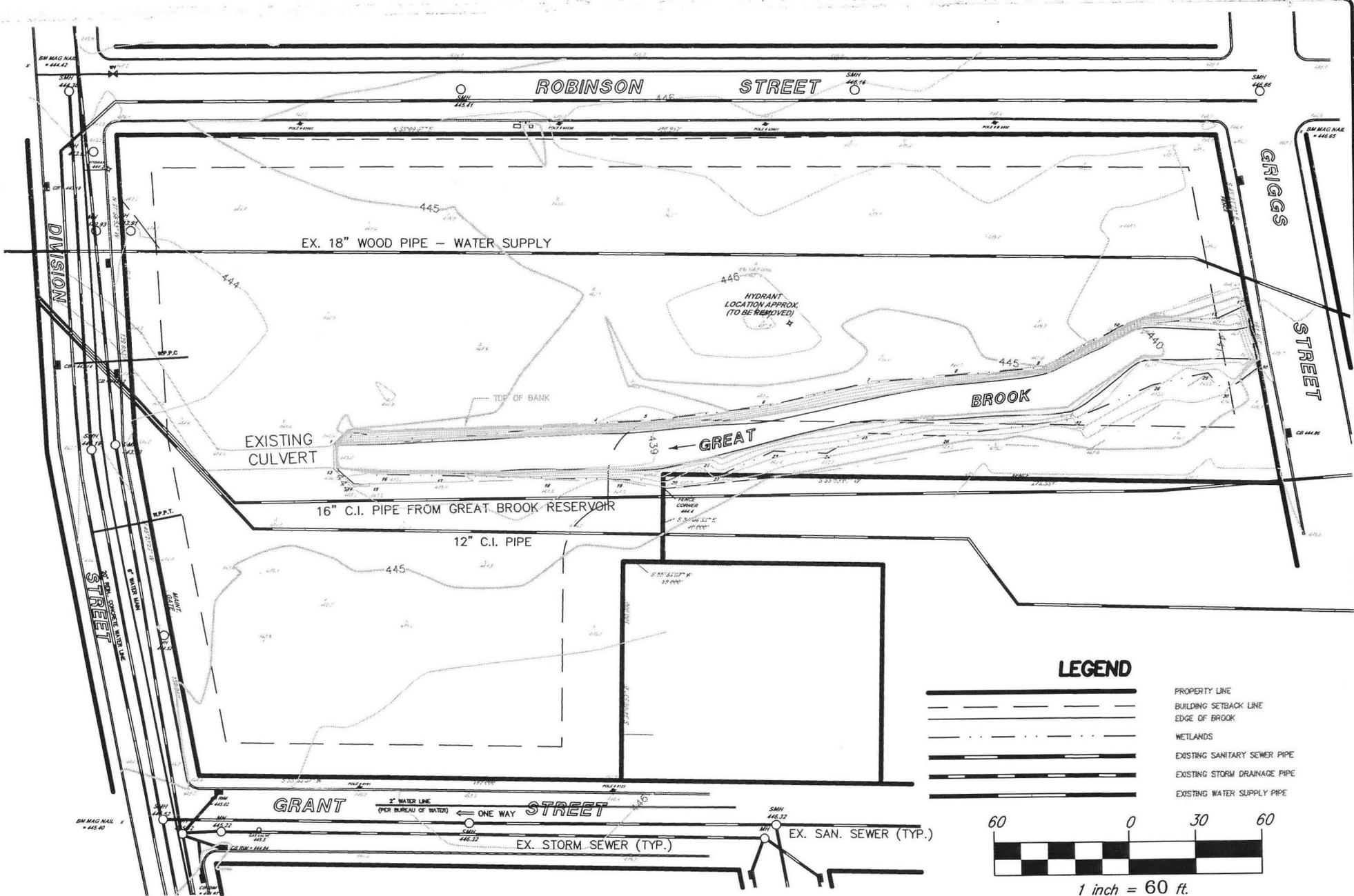
SURVEYOR
RIORDAN LAND SURVEYING
701 MIDDLE ROAD TURNPIKE
WOODBURY, CT



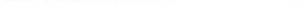
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY (203) 266-0778 CONNECTICUT

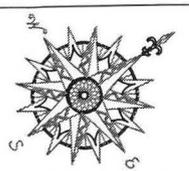
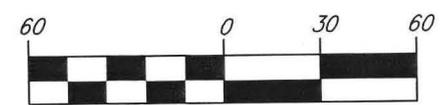
MAY 13, 2012

SHEET NUMBER	DESCRIPTION
S 102	EXISTING CONDITIONS
S 103	SITE PLAN
S 104	GRADING PLAN & EROSION CONTROL PLAN
S 105	GRADING PLAN & EROSION CONTROL PLAN
L 101	LANDSCAPING PLAN
L 102	LANDSCAPING PLAN NOTES
D 101	DETAILS
D 102	DETAILS
D 103	DETAILS
E 101	EROSION CONTROL NARRATIVE AND DETAILS
E 102	EROSION CONTROL NARRATIVE AND DETAILS
E 103	EROSION CONTROL NARRATIVE AND DETAILS



LEGEND

-  PROPERTY LINE
-  BUILDING SETBACK LINE
-  EDGE OF BROOK
-  WETLANDS
-  EXISTING SANITARY SEWER PIPE
-  EXISTING STORM DRAINAGE PIPE
-  EXISTING WATER SUPPLY PIPE



**WATERBURY POLICE
ACTIVITY LEAGUE**

EXISTING CONDITIONS		
NO.	REVISION	DATE

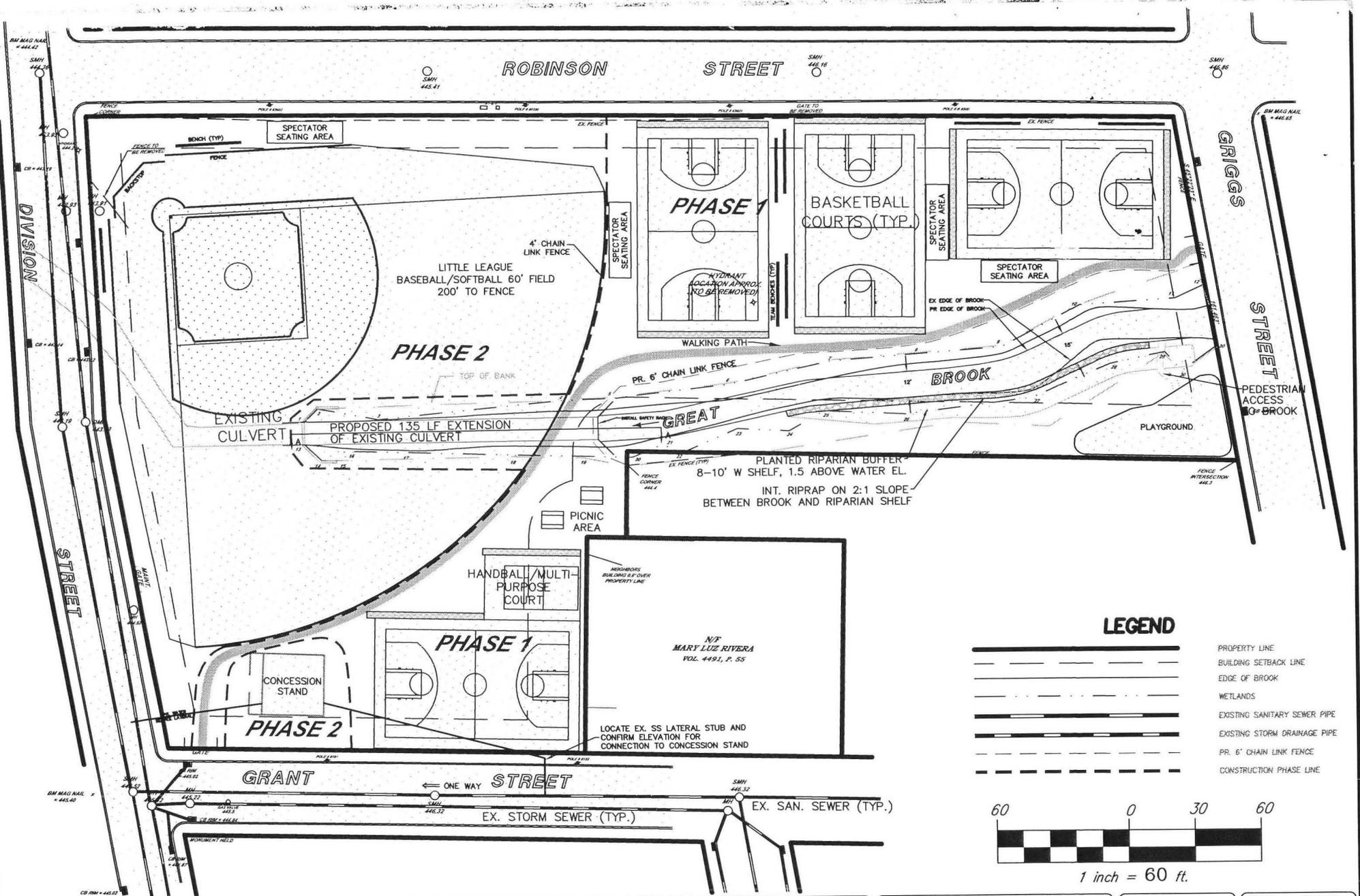
ASSESSORS MAP 218 LOTS 139, 140 & 141
ASSESSORS MAP 219 LOTS 6 & 7
ROBINSON STREET, DIVISION STREET, GRANT STREET
AND GRIGGS STREET

CIVIL C1

CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY (203) 266-0778 CONNECTICUT

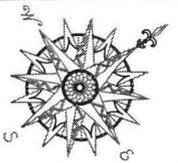
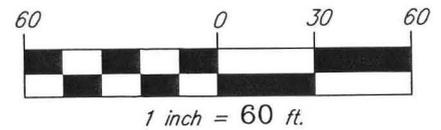
DATE: 13 MAY 12
DRAWN BY: 3049
CHECKED BY: 3049

ISSUED BY: APPROVED BY:
S 102



LEGEND

- PROPERTY LINE
- BUILDING SETBACK LINE
- EDGE OF BROOK
- WETLANDS
- EXISTING SANITARY SEWER PIPE
- EXISTING STORM DRAINAGE PIPE
- PR. 6\"/>



**WATERBURY POLICE
ACTIVITY LEAGUE**

SITE PLAN

NO.	REVISION	DATE

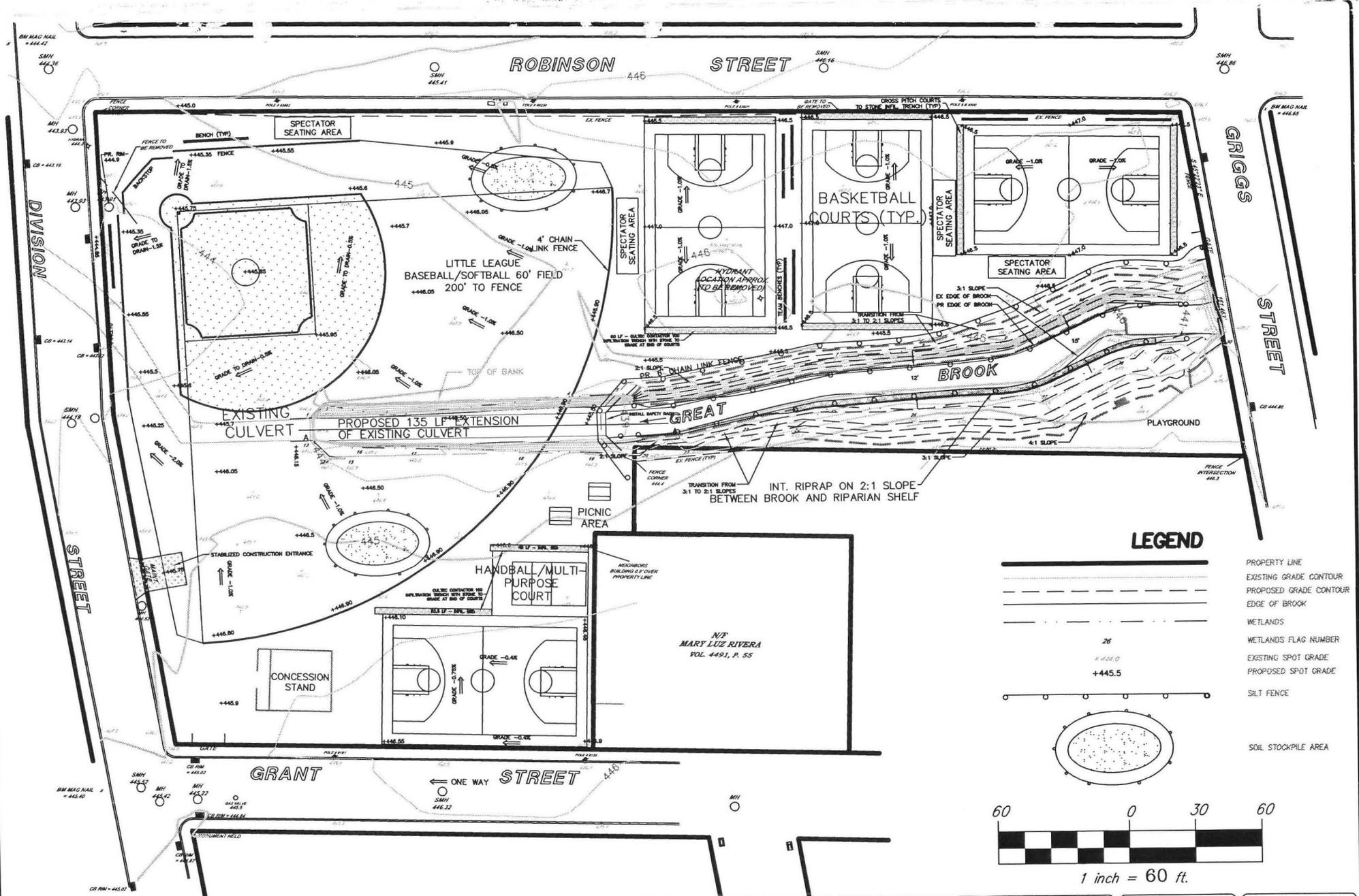
ASSESSORS MAP 218 LOTS 139, 140 & 141
ASSESSORS MAP 219 LOTS 6 & 7
ROBINSON STREET, DIVISION STREET, GRANT STREET
AND GRIGGS STREET

CIVIL C1

CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
(203) 266-0778

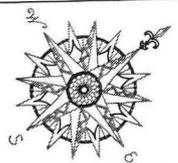
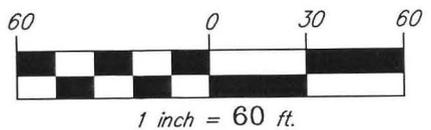
DATE: 13 MAY 12
PROJECT NO.: 3049
DRAWING NO.: 3049

DRIVING BB APPROVED CJ
S 103



LEGEND

- PROPERTY LINE
- - - - - EXISTING GRADE CONTOUR
- PROPOSED GRADE CONTOUR
- EDGE OF BROOK
- WETLANDS
- WETLANDS FLAG NUMBER
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- SILT FENCE
- SOIL STOCKPILE AREA



**WATERBURY POLICE
ACTIVITY LEAGUE**

**GRADING PLAN
EROSION CONTROL PLAN**

NO.	REVISION	DATE

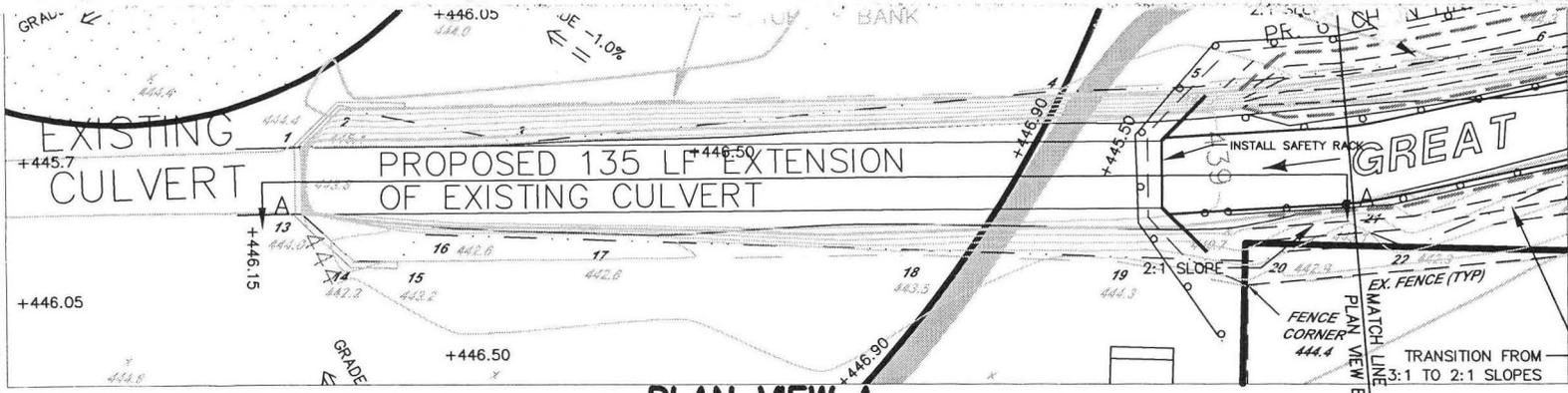
ASSESSORS MAP 218 LOTS 139, 140 & 141
ASSESSORS MAP 219 LOTS 6 & 7
ROBINSON STREET, DIVISION STREET,
GRANT STREET AND GRIGGS STREET

CIVIL C1

CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY CONNECTICUT (203) 266-0778

DATE: 13 MAY 12	APPROVED: CJ
PROJECT NO.: 3049	
DATE FILED: 3049	
DRAWING NO.: S 104	

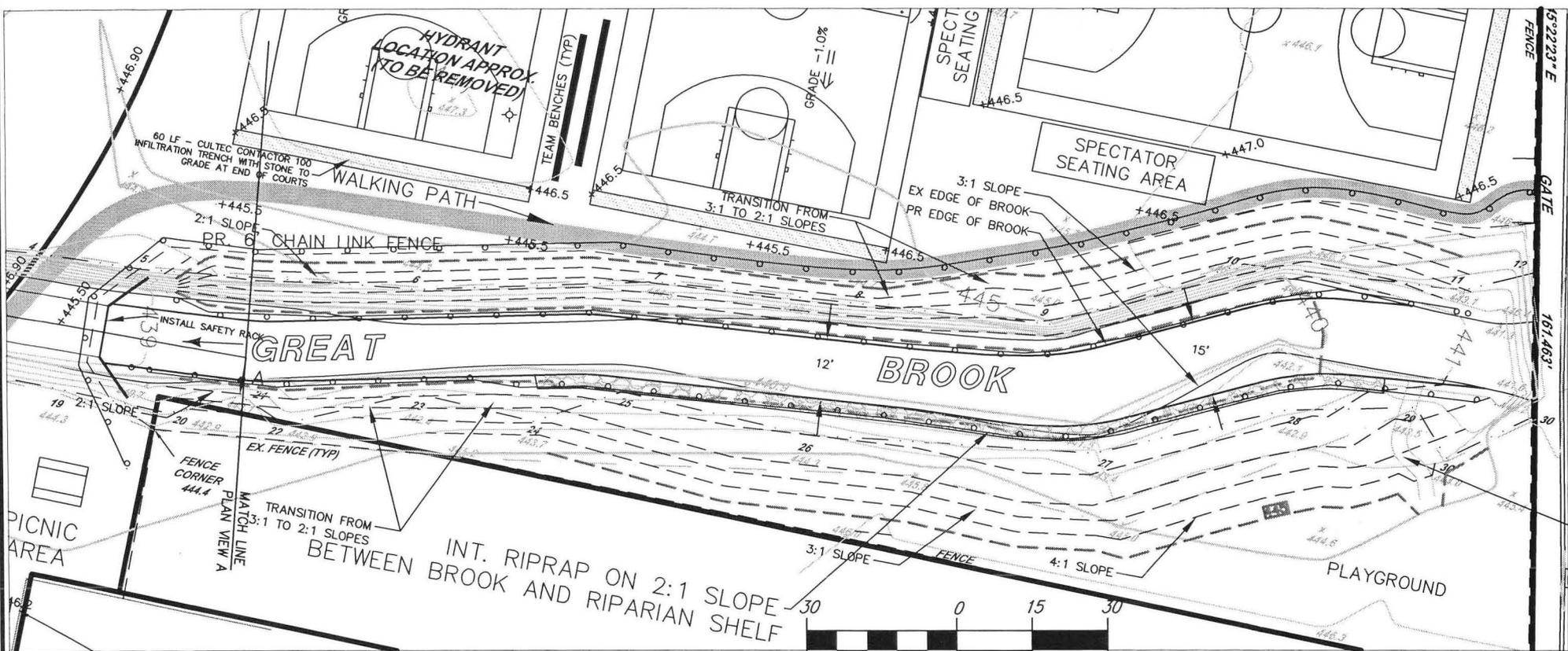
N/T
MARY LUZ RIVERA
VOL. 4491, P. 55



PLAN VIEW A

LEGEND

- PROPERTY LINE
- EXISTING GRADE CONTOUR
- PROPOSED GRADE CONTOUR
- EDGE OF BROOK
- WETLANDS
- WETLANDS FLAG NUMBER
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- SILT FENCE



PLAN VIEW B

1 inch = 30 ft.



**WATERBURY POLICE
ACTIVITY LEAGUE**

**GRADING PLAN
EROSION CONTROL PLAN**

NO.	REVISION	DATE

ASSESSORS MAP 218 LOTS 139, 140 & 141
ASSESSORS MAP 219 LOTS 6 & 7
ROBINSON STREET, DIVISION STREET, GRANT STREET
AND GRIGGS STREET

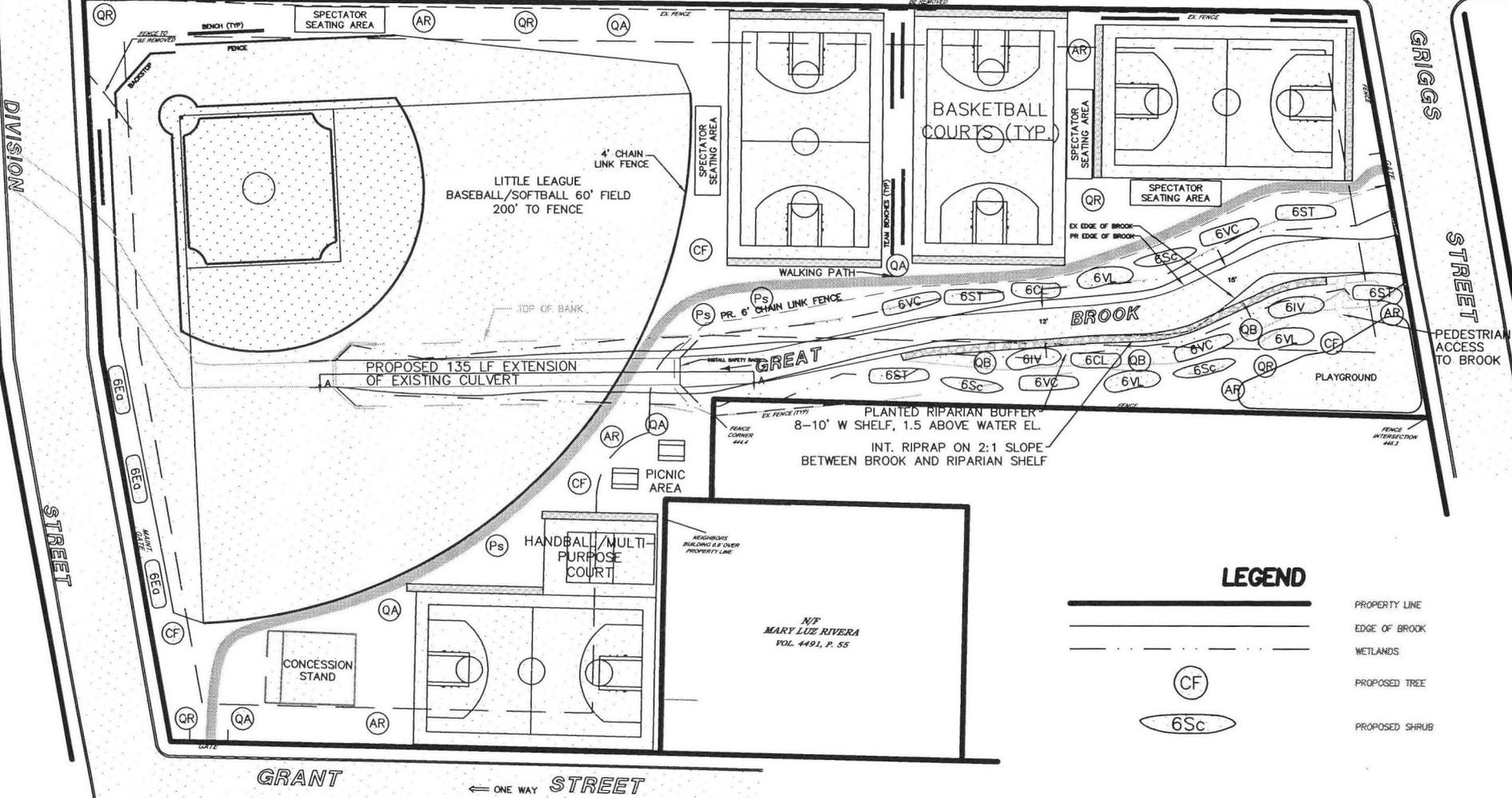


CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY CONNECTICUT (203) 266-0778

DRAWN BY: BB APPROVED BY: CJ
SCALE: 1" = 30'
DATE: 13 MAY 12
PROJECT NO.: 3049
CHECK FILE NAME: 3049
DRAWING NO.:

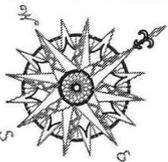
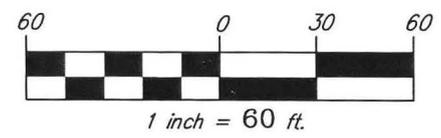
S 105

ROBINSON STREET



LEGEND

- PROPERTY LINE
- EDGE OF BROOK
- WETLANDS
- PROPOSED TREE
- PROPOSED SHRUB



WATERBURY POLICE
ACTIVITY LEAGUE

LANDSCAPING PLAN

NO.	REVISION	DATE

ASSESSORS MAP 218 LOTS 139, 140 & 141
ASSESSORS MAP 219 LOTS 6 & 7
ROBINSON STREET, DIVISION STREET, GRANT STREET
AND GRIGGS STREET

WATERBURY CONNECTICUT



CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY (203) 266-0778 CONNECTICUT

DATE BB: 13 MAY 12
SCALE: 1" = 60'
BY: 3049
FILE NO.: 3049
DRAWING NO.: 3049

L 101

LANDSCAPING AND WETLAND MITIGATION PLANT LIST

**PAL Recreation Facility - Division Street
Waterbury, CT**

	Scientific Name	Common Name	Quan.	Size	Root
Trees					
AR	Acer rubrum	Red Maple	6	6'	Cont
CF	Cornus florida	Flowering Dogwood	4	6'	Cont
QA	Quercus alba	White Oak	5	6'	Cont
QB	Quercus bicolor	Swamp/White Oak	3	6'	Cont
QR	Quercus rubra	Red Oak	5	6'	Cont
Ps	Pinus strobus	White Pine	3	6'	Cont
Shrubs					
CL	Clethra alnifolia	Sweet Pepperbush	12	3-4'	Cont
IV	Ilex verticillata (female)	Winterberry	10	3-4'	Cont
IVM	Ilex verticillata (male)	Winterberry	2	3-4'	Cont
Sc	Sambucus canadensis	Common Elderberry	18	2-3'	Cont
ST	Spiraea tomentosa	Steeplebush	24	3-4'	Cont
YC	Vaccinium corymbosum	Highbush Blueberry	24	3-4'	Cont
VL	Viburnum lentago	Nannyberry	18	3-4'	Cont
Ea	Euonymus alatus	Burning Bush	18	3-4'	Cont

Note: Invasive species will be removed from mitigation areas as necessary per Planting Plan Notes.

Seed Mixes

**New England Erosion Control/Restoration Mix (for detention basins and moist sites)
available from New England Wetland Plants, Inc.**

Agrostis stolonifera	Creeping Bentgrass
Aster novi-belgii	New York Aster
Aster umbellatus	Flat-top Aster
Bidens cernua	Nodding Bur-margold
Carex vulpinoidea	Fox Sedge
Elymus villosus	Silky Wild Rye
Elymus virginicus	Virginia Wild Rye
Festuca rubra	Creeping Red Fescue
Eupatorium maculatum	Spotted Joe-pye Weed
Eupatorium perfoliatum	Boneset
Juncus effusus	Soft Rush
Onoclea sensibilis	Sensitive Fern
Panicum virgatum	Switchgrass
Solidago graminifolia	Grass-leaved Goldenrod
Verbena hastata	Blue Vervain
Application Rate: 1 LB/1245 sq. ft.	

**WETLAND MITIGATION & LANDSCAPING PLANTING PLAN
PAL Recreation Facilities – Division Street
Waterbury, Connecticut**

PLANT NOTES

1. Invasive non-native plant species in mitigation areas shall be identified and tagged for eradicated or removed.
2. Herbicide application shall be performed by a licensed professional, registered applicator.
3. Herbicide will be applied using the spot application method where an invasive is sheared at its base and a herbicide is applied directly to the exposed stump. Any other method can be approved by the project wetland scientist. A marker dye shall be added to any herbicides used for invasive plant removal.
4. Dispose of invasive plant material off site.
5. In mitigation areas, existing native vegetation will be protected to the maximum extent feasible. Plantings will be field located and installed around existing native vegetation.
6. Proposed planting areas amended with at least 6" of organic enriched topsoil (minimum 10% OM), which shall be free from Purple Loosestrife (Lythrum salicaria), Common Reed (Phragmites australis), or Reed Canarygrass (Phalaris arundinacea).
7. Plants shall not be ordered the project wetland scientist has reviewed finished grading and hydrology. If necessary, plant list shall be adjusted according to field conditions.
8. Final plant & seed mix locations shall be determined in the field the project wetland scientist.
9. Wetland herbs shall be installed under the guidance of the project wetland scientist.
10. Plant shrubs in beds and mulch with pine bark mulch or equivalent. Do not seed shrub beds.
11. Plant at least one male Winterberry in the background of each Winterberry grouping at a ratio of approximately 1 male per 5 female.
12. Seed brook slopes with New England Erosion Control/Restoration Mix (for detention basins and moist sites) at 1 lb/1245 s.f.

**WATERBURY POLICE
ACTIVITY LEAGUE**

LANDSCAPING PLAN NOTES

NO.	REVISION	DATE

ASSESSORS MAP 218 LOTS 139, 140 & 141
ASSESSORS MAP 219 LOTS 6 & 7
ROBINSON STREET, DIVISION STREET, GRANT STREET
AND GRIGGS STREET

WATERBURY

CONNECTICUT



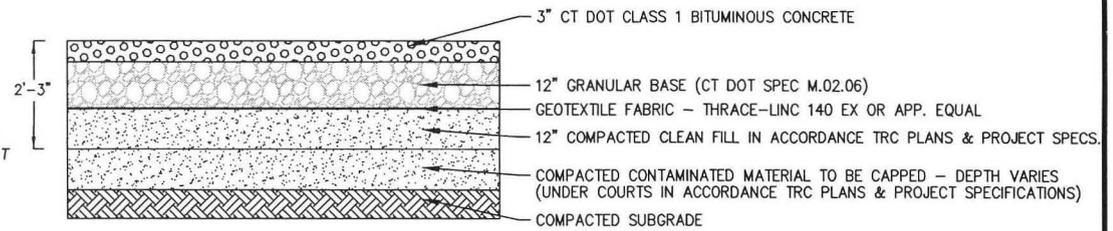
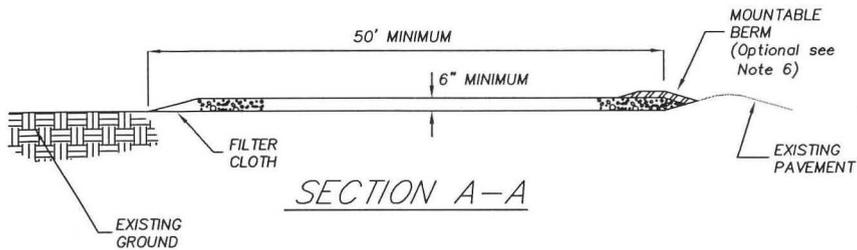
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
(203) 266-0778

WOODBURY

CONNECTICUT

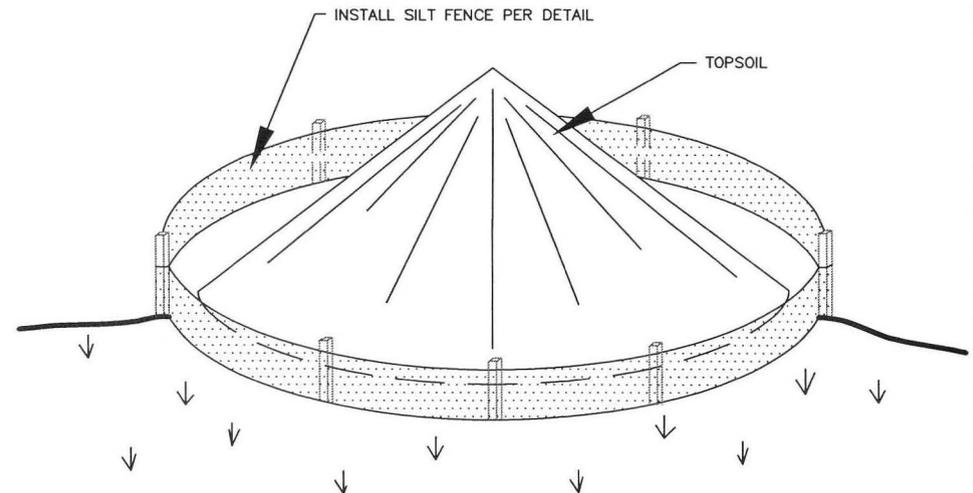
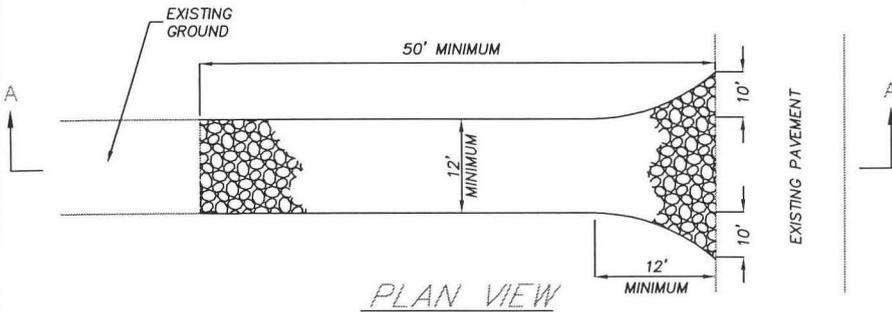
DRAWN: BB	APPROVED: CJ
SCALE: N/A	
DATE: 13 MAY 12	
PROJ. NO.: 3049	
CADD FILE NAME: 3049	
DRAWING NO.:	

L 102



COURT CROSS SECTION

N.T.S.



STOCKPILE MANAGEMENT PER 2002 CT GUIDELINES FOR E & S CONTROL:

1. LOCATE STOCKPILE SO THAT NATURAL DRAINAGE IS NOT OBSTRUCTED.
2. DIVERT RUNOFF WATER AWAY FROM OR AROUND THE STOCKPILE.
3. INSTALL A GEOTEXTILE SILT FENCE OR HAY BALE BARRIER AROUND THE STOCKPILE AREA APPROXIMATELY 10 FEET FROM PROPOSED TOE OF THE SLOPE.
4. THE SIDE SLOPES OF STOCKPILED MATERIAL SHOULD BE NO STEEPER THAN 2:1.
5. STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS NEED TO BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE.
6. AFTER STOCKPILE HAS BEEN REMOVED, THE SITE SHOULD BE GRADED AND PERMANENTLY STABILIZED.

TEMPORARY SOIL STOCKPILE

STABILIZED CONSTRUCTION ENTRANCE

NOTES:

1. STONE SIZE - USE 1" - 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT MINIMUM IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - TO BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DRIPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

WATERBURY POLICE
ACTIVITY LEAGUE

DETAILS

NO.	REVISION	DATE

ASSESSORS MAP 218 LOTS 139, 140 & 141
ASSESSORS MAP 219 LOTS 6 & 7
ROBINSON STREET, DIVISION STREET, GRANT STREET
AND GRIGGS STREET

WATERBURY

CONNECTICUT

CIVIL C1

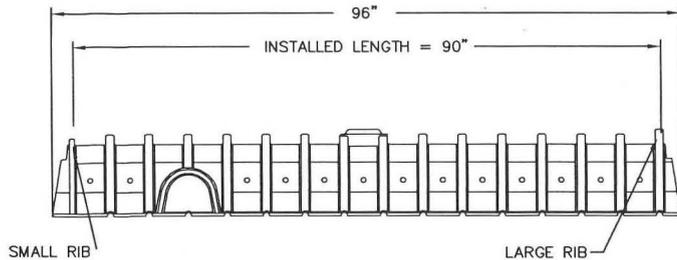
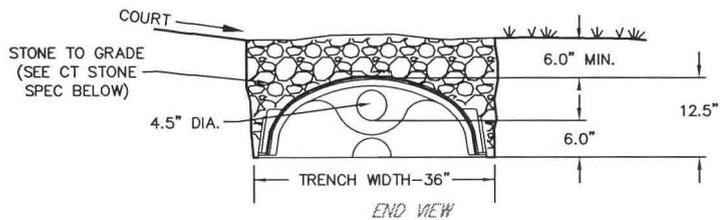
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
(203) 266-0778

WOODBURY

CONNECTICUT

DESIGNER: BB APPROVED: CJ
SCALE: AS NOTED
DATE: 13 MAY 12
PROJ. NO.: 3049
CADD FILE NAME: 3049

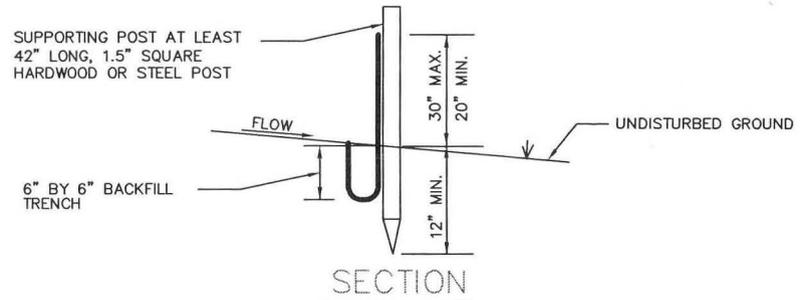
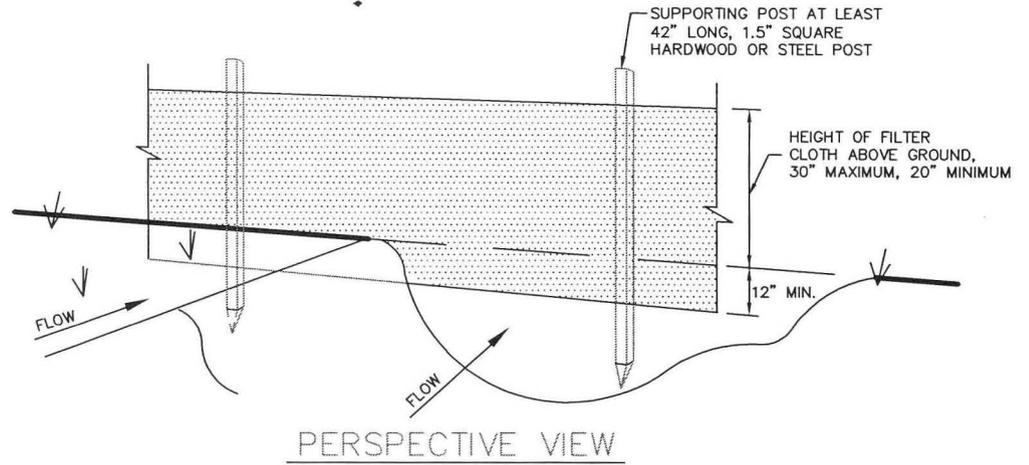
D 101



CULTEC CONTACTOR 100HD CHAMBER INSTALLED LENGTH ADJUSTMENT = 0.5' (0.15 m)
 ALL CONTACTOR 100HD HEAVY DUTY UNITS ARE MARKED WITH A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
 - CT STONE SPECIFICATION: ONE-INCH BROKEN STONE OR ONE-INCH SCREENED GRAVEL

CULTEC CONTACTOR 100

A.T.S.



CONSTRUCTION NOTES FOR SILT FENCE

1. EXCAVATE A TRENCH A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE ON THE UP SIDE OF THE FENCE LOCATION.
2. DRIVE SUPPORT POSTS ON THE DOWN SLOPE SIDE OF THE TRENCH TO A DEPTH OF AT LEAST 12 INCHES INTO ORIGINAL GROUND.
3. STAPLE OR SECURE THE GEOTEXTILE TO THE SUPPORT POSTS PER MANUFACTURER'S INSTRUCTIONS SUCH THAT AT LEAST 6 INCHES OF GEOTEXTILE LIES WITHIN THE TRENCH.
4. BACKFILL THE TRENCH WITH TAMPED SOIL OR AGGREGATE OVER THE GEOTEXTILE.

POSTS: 1.5" SQUARE HARDWOOD OR STEEL

FILTER CLOTH: MIRAFI 100X, ENVROFENCE OR APPROVED EQUAL

SILT FENCE DETAIL

WATERBURY POLICE
 ACTIVITY LEAGUE

DETAILS

NO.	REVISION	DATE

ASSESSORS MAP 218 LOTS 139, 140 & 141
 ASSESSORS MAP 219 LOTS 6 & 7
 ROBINSON STREET, DIVISION STREET, GRANT STREET
 AND GRIGGS STREET

WATERBURY

CONNECTICUT

CIVIL **C1**

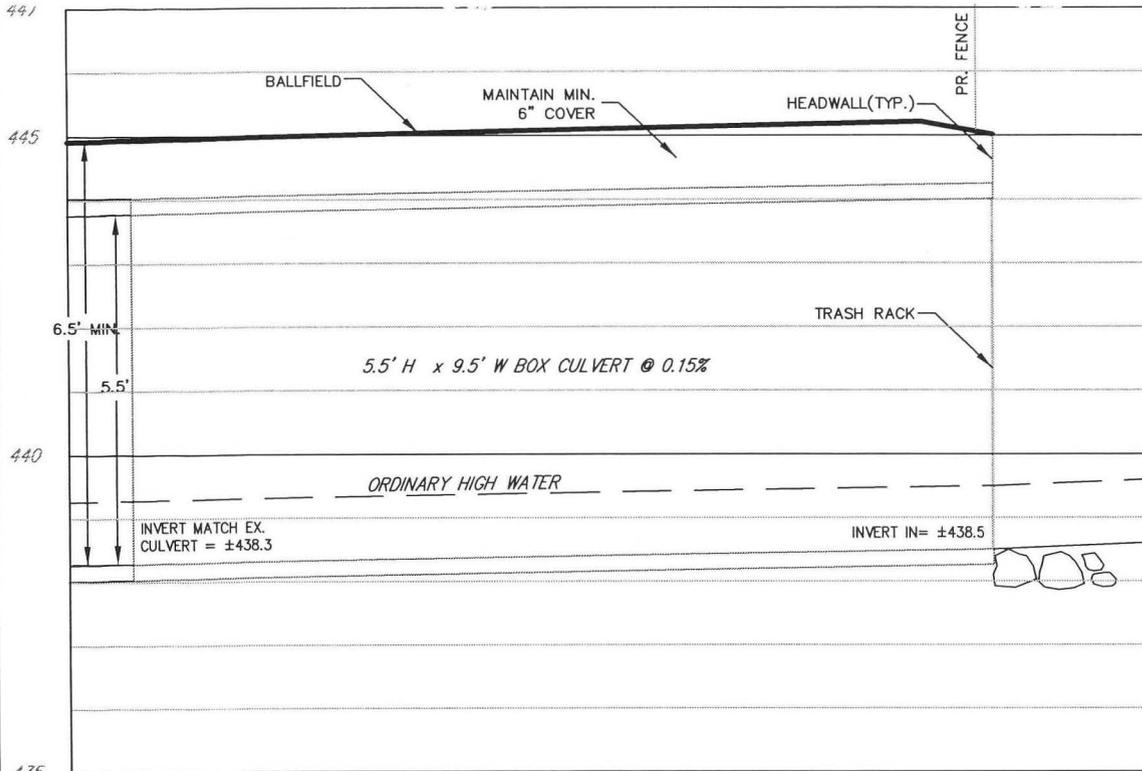
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
 43 SHERMAN HILL ROAD
 (203) 266-0778

WOODBURY

CONNECTICUT

DESIGNER: BB APPROVED: CJ
 SCALE: AS NOTED
 DATE: 13 MAY 12
 PROJECT NO.: 3049
 CAD FILE NAME: 3049

D 102

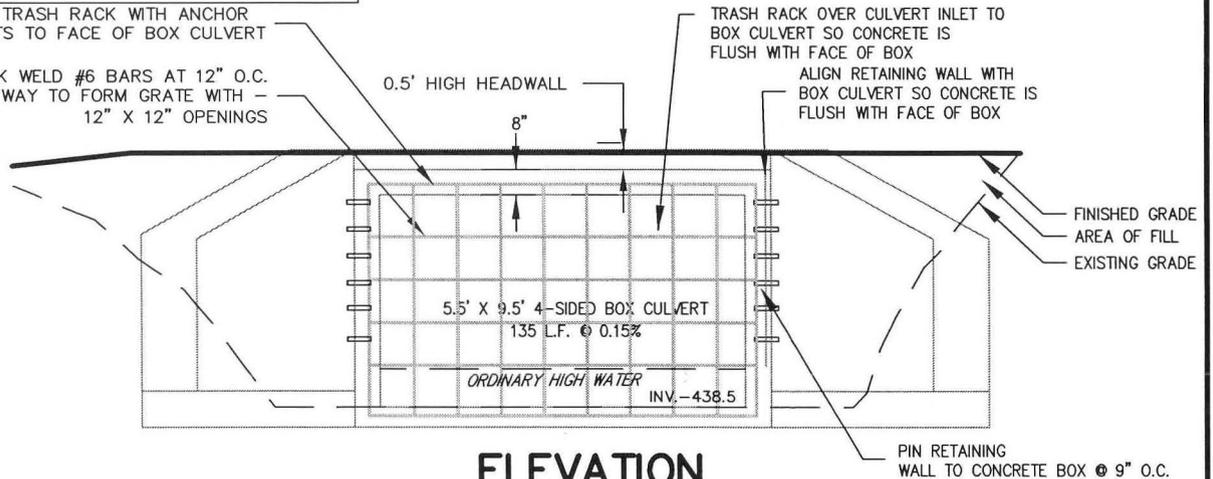


SECTION A-A

SCALE: 1" = 30' HOR.
1" = 3' VER.

ATTACH TRASH RACK WITH ANCHOR BRACKETS TO FACE OF BOX CULVERT

TRACK WELD #6 BARS AT 12" O.C. EACH WAY TO FORM GRATE WITH 12" X 12" OPENINGS



ELEVATION

SCALE: 1" = 5'

SPECIFICATIONS FOR PRECAST CONCRETE BOX CULVERT

PRECAST BOX CULVERT SHALL BE MANUFACTURED BY OLDCASTLE PRECAST, INC., OR APPROVED EQUAL.

SHAPE- THE SECTION IS A FOUR SIDED BOX SECTION WITH OPEN ENDS TO BE MONOLITHICALLY CAST OF REINFORCED CONCRETE. THE INSIDE SURFACES SHALL BE SMOOTH SO AS NOT TO RESTRICT FLOW THROUGH THE COMPLETED INSTALLATION. CHAMFERED 45 DEGREE X 8" FILLETS SHALL BE MONOLITHICALLY CAST IN ALL INSIDE CORNERS.

SIZE- INTERNAL DIMENSIONS OF 9.5 WIDE X 5.5' HEIGHT SHALL BE MAINTAINED. LENGTH OF EACH SECTION SHALL BE 8'. ROOF AND BOTTOM THICKNESS SHALL BE 8", SIDEWALL THICKNESS SHALL BE 6".

JOINTS- EACH SECTION SHALL HAVE A MALE AND FEMALE END WITH NOT LESS THAN 1- 1/2" CONCRETE OVERLAP. EACH SECTION SHALL HAVE ONE PREPLACED 1" DIAMETER NEOPRENE GASKET CEMENTED TO JOINT SURFACE,

ASSEMBLY HARDWARE- ASSEMBLY HARDWARE SHALL BE FURNISHED BY THE MANUFACTURER.

INSPECTION- THE QUALITY OF MATERIALS AND THE COMPLETED BOX SECTIONS SHALL BE SUBJECT TO INSPECTION BY THE ENGINEER AND OWNER.

DESIGN CRITERIA-

- A. STEEL REINFORCEMENT- ASTM A-615, GRADE 60
- B. CONCRETE MINIMUM COMPRESSIVE STRENGTH- 5000 PSI @ 28 DAYS
- C. LOADING- TRUCK AXLE LOAD, H20- 32000 LBF.

**FINAL DIMENSIONS AND INVERTS TO BE COMPLETED WHEN FINAL SHOP DRAWINGS FOR CULVERT ARE PREPARED PRIOR TO CONSTRUCTION. DETAILS FOR CONNECTION OF PROPOSED CULVERT CONNECTION TO EXISTING CULVERT TO BE PROVIDED WITH SHOP DRAWINGS.

WATERBURY POLICE
ACTIVITY LEAGUE

DETAILS

NO.	REVISION	DATE

ASSESSORS MAP 218 LOTS 139, 140 & 141
ASSESSORS MAP 219 LOTS 6 & 7
ROBINSON STREET, DIVISION STREET, GRANT STREET
AND GRIGGS STREET



CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY CONNECTICUT (203) 266-0778

DRAWN BY	APPROVED BY
SCALE	AS NOTED
DATE	13 MAY 12
PROJECT NO.	3049
CADD FILE NAME	3049
DRAWING NO.	

D 103

EROSION CONTROL NARRATIVE

GENERAL PRINCIPLES

The following general principles shall be maintained as effective means of minimizing erosion and sedimentation during the development process.

Stripping away of vegetation, regrading or other development shall be done in such a way as to minimize erosion.

Grading and development plans shall preserve important natural features, keep cut and fill operations to a minimum, and insure conformity with topography so as to create the least erosion potential and adequately handle the volume and velocity of surface water runoff.

Whenever feasible, natural vegetation shall be retained, protected and supplemented wherever indicated on the site development plan.

The undisturbed area and the duration of exposure shall be kept to a practical minimum.

Disturbed soils shall be stabilized as quickly as possible.

Temporary vegetation and/or mulching shall be used to protect exposed critical areas during development when expected to be exposed in excess of 7 days.

The permanent (final) vegetation and mechanical erosion control measures shall be installed as soon as practical during construction.

Sediment in the runoff water shall be trapped until the disturbed areas is stabilized by the use of debris basins, sediment basins, silt traps or similar measures.

All lots, tracts or developments shall be final graded to provide proper drainage away from buildings and dispose of it without ponding; and all land within a development shall be graded to drain and dispose of surface water without ponding.

Land disturbance will be kept to a minimum. Restabilization will be scheduled as soon as practical. Not more than 5 acres will be disturbed at any one time.

Catch basins will be protected with haybale filters throughout the construction period and until all disturbed areas are thoroughly stabilized.

Haybale filters will be installed at all outlets and along the toe of all critical cut and fill slopes.

All control measures will be maintained in effective condition throughout the construction period.

The responsibility for implementing the erosion and sediment control plan will rest with the developer of record. He acknowledges that he is responsible for informing all concerned of the requirements of the plan, for notifying the planning administration of any transfer of responsibility.

Additional control measures will be installed during construction if necessary or required.

Concentration of surface runoff shall be only permitted by piping and/or through drainage swales or natural watercourses.

Excavation and Fills --

Slopes created by cuts or fills shall not be steeper than 2:1 and shall be restabilized by temporary or permanent measures, as required during the development process. Erosion control blankets will be used on slopes in the vicinity of wetlands regulated areas and on additional slopes as needed.

Adequate provisions shall be made to prevent surface water from damaging the cut face of excavations or the sloping surfaces of fills.

Cut and fills shall not endanger adjoining property.

All fills shall be compacted to provide stability of material and to prevent undesirable settlement. The fill shall be spread in a series of layers each not exceeding twelve (12) inches in thickness and shall be compacted by a mechanical roller or other approved method after each layer is spread.

Fills shall not encroach on natural watercourses, constructed channels or regulated flood plain areas, unless permitted by license or permit from authority having jurisdiction.

Fills placed adjacent to natural watercourses, constructed channels or flood plains shall have suitable protection against erosion during periods of flooding.

Grading shall not be done in such a way as to divert water onto the property of another landowner without their express written consent.

During grading operations, necessary measures for dust control shall be exercised.

All erosion and sediment control measures will be constructed in accordance with the standards and specifications of the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control (2002) – State of Connecticut DEP Bulletin 34.

**WATERBURY POLICE
ACTIVITY LEAGUE**

EROSION CONTROL NARRATIVE AND DETAILS

NO.	REVISION	DATE

ASSESSORS MAP 218 LOTS 139, 140 & 141
ASSESSORS MAP 219 LOTS 6 & 7
ROBINSON STREET, DIVISION STREET, GRANT STREET
AND GRIGGS STREET

WATERBURY

CONNECTICUT



CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
(203) 266-0778

WOODBURY

CONNECTICUT

DESIGNER: BB	APPROVED: CJ
SCALE: AS NOTED	
DATE: 13 MAY 12	
PROJ. NO.: 3049	
CADD FILE NAME: 3049	
DRAWING NO.:	

E 101

RESPONSIBILITY FOR THE PLAN

The responsibility for implementing and maintaining the Erosion and Sedimentation Control Plan rests with the CONTRACTOR, where any development of the parcel gives cause to erosion and sedimentation. It is also to be said that the CONTRACTOR shall be held responsible for informing all concerned regarding responsibility of the plan and seeing that the plan becomes a part of the deed in the event the title of the property is transferred. The costs of all drainage, erosion and sedimentation control measures will therefore rest with the CONTRACTOR.

Whenever sedimentation is caused by stripping vegetation and/or grading, it shall be the responsibility of the person, corporation or other entity having responsibility to remove sedimentation from all lower properties, drainage systems and watercourses and to repair any damage at their expense as quickly as possible.

Maintenance of all drainage facilities and watercourses within any land development shall be the responsibility of the CONTRACTOR until they are accepted by the Town. All control measures will be maintained in effective condition throughout the construction period. Surface inlets shall be kept open and free of sediment and debris. The system shall be checked after every major storm and sediment shall be disposed of at an approved location consistent with the plan.

It shall be the responsibility of any person, corporation or other entity engaging in any act on or near any stream, watercourse or swale or upon the flood plain or right-of-way thereof to maintain as nearly as possible in its present state that same stream, watercourse, swale, flood plain or right-of-way for the duration of the activity and to return it to its original or equal condition after such activity is completed.

Maintenance of drainage facilities or watercourses originating and completely on private property shall be the responsibility of the CONTRACTOR to their point of open discharge at the property line or at a communal watercourse within the property.

SEEDING AND PLANTING REQUIREMENTS

Seedbed Preparation

Fine grade and rake surface to remove stones larger than 2" in diameter. Install needed erosion control devices such as surface water diversions. Grade stabilization structures, sediment basins or drainage channels to maintain grassed areas. Apply limestone at a rate of 2 tons/Ac. or 90 lbs/1000 SF unless otherwise required according to soil test results. Apply fertilizers with 10-10-10 at a rate of 300 lbs./Ac. or 7.5 lbs/1000 SF. At least 50% of the nitrogen shall be from organic sources. Work lime and fertilizer into soil uniformly to a depth of 4" with a whisk, springtooth harrow or other suitable equipment following the contour lines.

Seed Application

Apply grass mixtures at rates specified by hand, cyclone seeder or hydroseeder. Increase seed mixture by 10% if hydroseeder is used. Lightly drag or roll the seeded surface to cover seed. Seeding for selected fine grasses should be done between April 1 and June 1 or between August 15 and October 15. If seeding cannot be done during these times, repeat mulching procedure below until seeding can take place or seed with a quick germinating seed mixture to stabilize slopes. A quick germinating seed mixture (Domestic Rye) can be applied between June 15 through August 15 as approved by the Engineer.

Mulching

Immediately following seeding, mulch the seeded surface with straw, hay or wood fiber at a rate of 1.5 to 2 tons/Ac. except as otherwise specified elsewhere. Mulches should be free of weeds and coarse matter. Spread mulch by hand or mulch blower. Punch mulch into soil surface with track machine or disk harrow set straight up. Mulch material should be "tucked" approximately 2- 3" into the soil surface. Chemical mulch binders or netting, in combination with the straw, hay or wood fibers, will be used where difficult slopes do not allow harrowing by machines.

Grass Seed Mixtures

Temporary Covers	Permanent Covers	
Perennial ryegrass 20 lbs/Ac.	Creeping Red Fescue	40 lbs/Ac.
Annual ryegrass 20 lbs/Ac.	Canada Bluegrass	20 lbs/Ac.

CONSTRUCTION SEQUENCE FOR BOX CULVERT

1. The Waterbury Wetlands Commission shall be notified one week prior to commencement of construction activity.
 2. The limits of construction and proposed culvert location shall be located in the field by a licensed surveyor and trees and brush shall be removed within these limits.
 3. Silt fence shall be installed at the location shown on the site plan. All erosion control measures will be constructed in accordance with the standards and specifications of the 2002 State of CT DEP Erosion Control Guidelines.
 4. All erosion and sediment control measures will be maintained during the construction period.
 5. Construction shall take place during dry period of year (June-September) so that flow in stream is minimal.
 6. Excavate in stream area to create flat, stable base. 1-2" crushed stone will be brought in to level base as needed. Any water in the stream area will be controlled by pumping from the area of the proposed new culvert inlet to the area of the existing culvert inlet. Sandbags and silt sacks shall be used as necessary for control of water.
 7. Place concrete box culvert starting at new inlet location and working south to existing culvert.
 8. Install headwalls and backfill headwall area using coarse sand & gravel.
 9. Backfill around box culvert in 12" lifts using coarse sand & gravel. Fill shall be compacted to a minimum of 95% modified optimum density ASTM 1555 method "C" until the required elevation is obtained.
 10. Install cobblestones for erosion control adjacent to wingwalls.
 11. Place 6" of topsoil on all disturbed areas. Seed & mulch immediately. Erosion control netting shall be used to stabilize slopes as needed.
- Note: Erosion control measures are to be maintained & monitored continuously until vegetative cover has been established.

WATERBURY POLICE
ACTIVITY LEAGUE

EROSION CONTROL NARRATIVE AND DETAILS

NO.	REVISION	DATE

ASSESSORS MAP 218 LOTS 139, 140 & 141
ASSESSORS MAP 219 LOTS 6 & 7
ROBINSON STREET, DIVISION STREET, GRANT STREET
AND GRIGGS STREET

WATERBURY

CONNECTICUT



CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODSBURY CONNECTICUT
(203) 266-0778

WOODSBURY

CONNECTICUT

DRAWN BY: APPROVED BY:
SCALE: AS NOTED
DATE: 13 MAY 12
PROJECT NO.: 3049
DRAWING FILE NAME: 3049
DRAWING NO.:

E 102