

SITE PLANS PREPARED FOR

PEDESTRIAN BRIDGE AT HENRY KAUFMANN CAMPGROUND

TOWN OF ORANGTOWN
ROCKLAND COUNTY, NEW YORK

Town Of Orangetown
MEETING OF:
OCT 1 2020
ARCHITECTURE & COMMUNITY
APPEARANCE BRD OF REVIEW

OWNER/APPLICANT

UJA-FEDERATION OF JEWISH PHILANTHROPIES OF NEW YORK
C/O HENRY KAUFMANN CAMPGROUNDS, INC.
667 BLAUVELT ROAD
P.O. BOX 175
PEARL RIVER, NEW YORK 10965
(845) 735-2718

SITE ENGINEER

LEONARD JACKSON ASSOCIATES
26 FIREMENS MEMORIAL DRIVE, SUITE 201
POMONA, NEW YORK 10970
(845) 354-4382

LAND SURVEYOR

JAY A. GREENWELL, PLS, LLC
85 LAFAYETTE AVENUE
SUFFERN, NEW YORK, 10901
(845) 357-0830

GENERAL CONTRACTOR

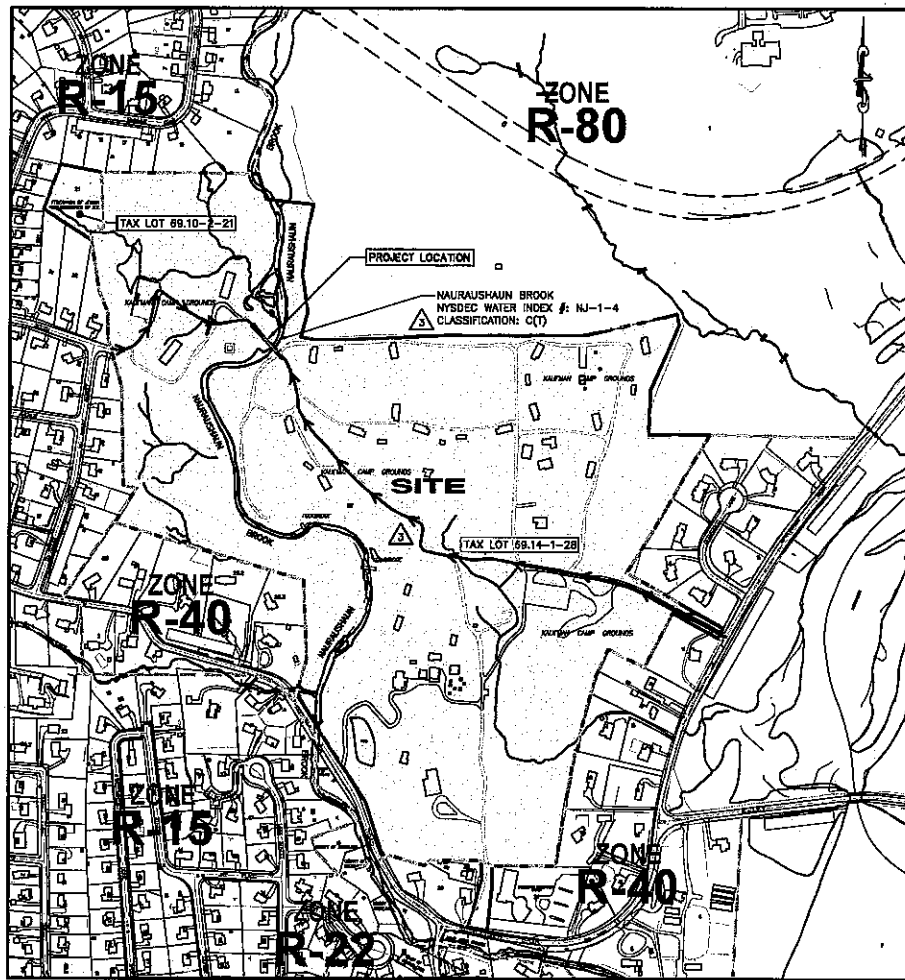
ACROW BRIDGE
181 NEW ROAD
PARSIPPANY, NEW JERSEY, 07054-5645
(973) 244-0080

BRIDGE ABUTMENT DESIGNER

JOSEPH BENIGNO ENGINEERING ASSOCIATES INC.
55 TURTLEBACK ROAD
CALIFON, NEW JERSEY, 07830
(908) 832-6789

SOILS ENGINEER

MELICK-TULLY AND ASSOCIATES, P.C.
117 CANAL ROAD
SOUTH BOUND BROOK, NJ 08880
(732) 356-3400



VICINITY MAP
SCALE: 1" = 300'

NO.	DESCRIPTION	ORIGINAL DATE	LATEST REVISION DATE
1	TITLE SHEET	3/5/2018	7/3/2020
2	OVERALL PLAN - PEDESTRIAN BRIDGE AT DAM	3/5/2018	7/3/2020
3	GRADING AND DRAINAGE - PART PLANS	3/5/2018	7/3/2020
4	EROSION CONTROL PLAN	7/30/2019	7/3/2020
5	CONSTRUCTION DETAILS (1 of 3)	3/5/2018	7/3/2020
6	CONSTRUCTION DETAILS (2 of 3)	7/30/2019	7/3/2020
7	CONSTRUCTION DETAILS (3 of 3) AND STORM PIPE PROFILE	7/30/2019	3/2/2020

PEDESTRIAN BRIDGE BY EAGLE BRIDGE LTD.			
1 of 4	GENERAL ARRANGEMENT	12/6/2017	2/25/2018
2 of 4	MISCELLANEOUS DETAILS	12/6/2017	2/25/2018
3 of 4	BOLT SPLICE DETAILS	12/6/2017	2/25/2018
4 of 4	ABUTMENTS AND HOISTING DETAILS	12/6/2017	2/25/2018

BRIDGE ABUTMENTS BY JOSEPH BENIGNO ENGINEERING ASSOCIATES INC.			
8h S1	ABUTMENTS PLANS + SECTIONS	2/16/2018	2/16/2018
8h S2	EAST ABUTMENT SECTIONS	2/16/2018	2/16/2018

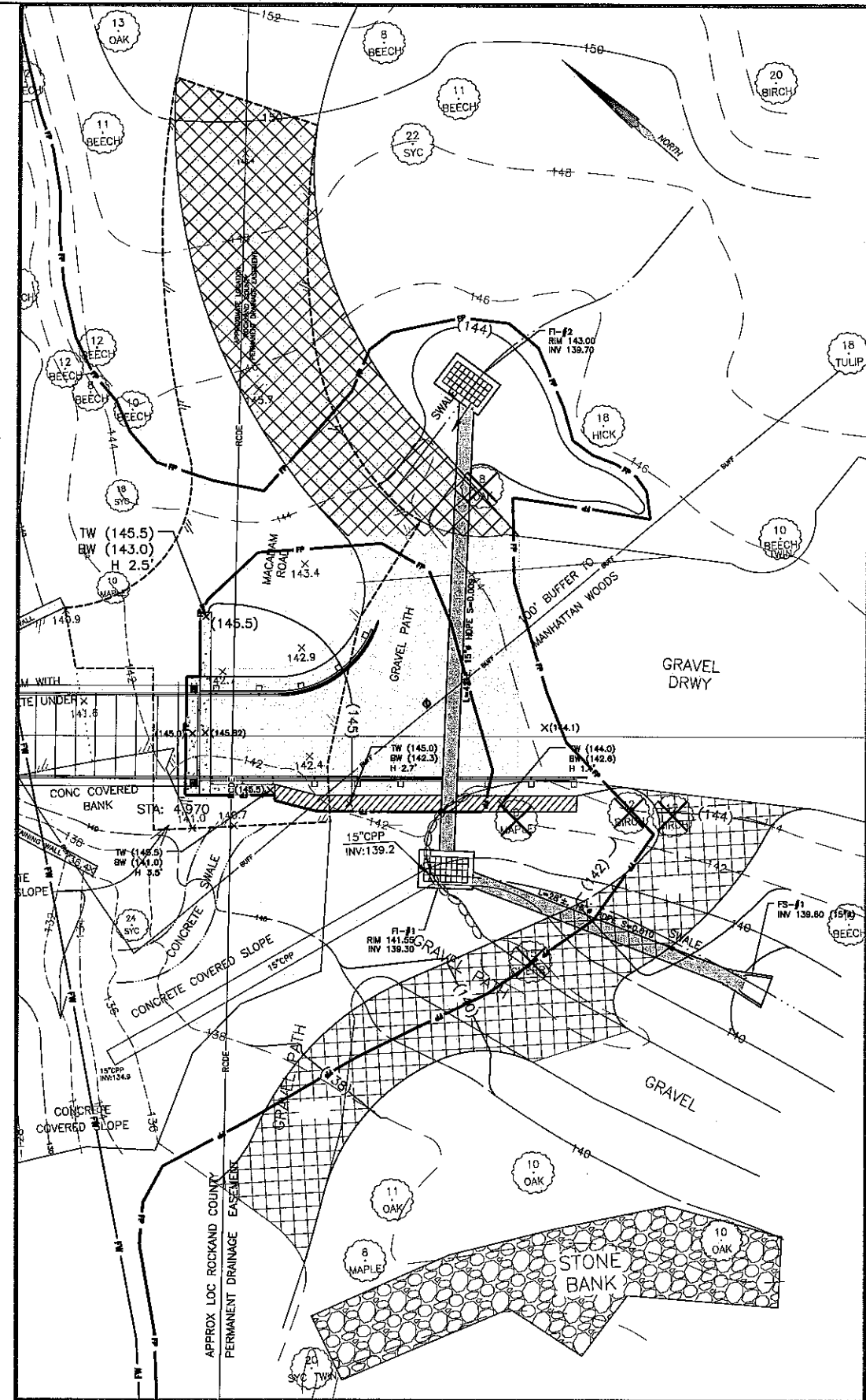
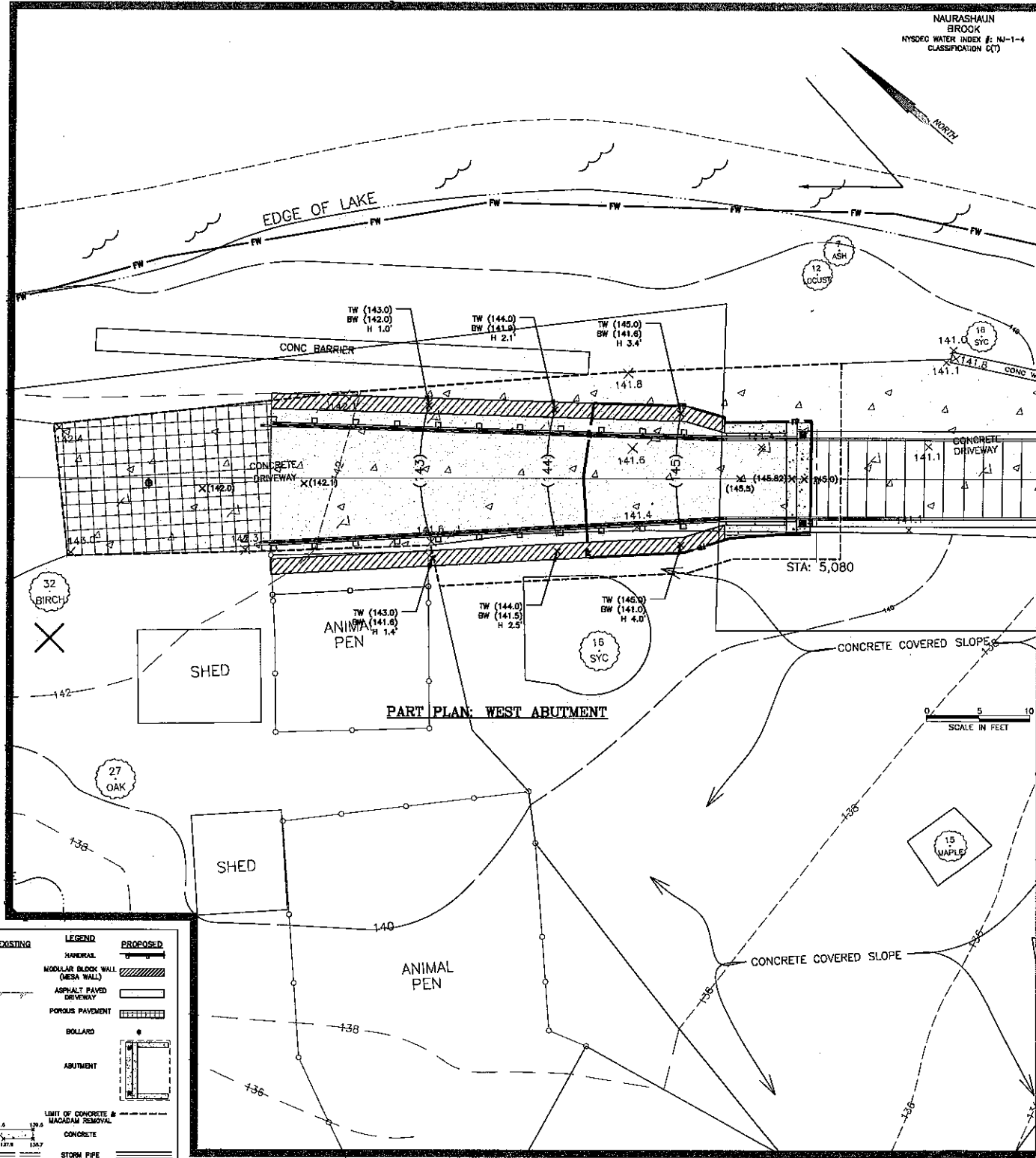
INFORMATION DRAWING PREPARED BY JAY A. GREENWELL, PLS, LLC			
SHEET 1	TOPOGRAPHIC MAP AT DAM	4/19/2018	3/20/2018
SHEET 2	TOPOGRAPHIC MAP AT DAM	4/19/2018	3/20/2018

- GENERAL NOTES:**
- THIS PROJECT IS LOCATED IN LOT 28 IN BLOCK 1 IN SECTION 69.14 AND LOT 21 IN BLOCK 2 IN SECTION 69.10 AS SHOWN ON THE TOWN OF ORANGTOWN TAX MAP.
 - AREA OF TRACT: 108.1 AC ±
 - ZONE: R-80, R-40, AND R-15
 - PROPOSED USE: PEDESTRIAN BRIDGE WITHIN CAMPGROUND
 - FIRE DISTRICT: PEARL RIVER FD004
 - SCHOOL DISTRICT: PEARL RIVER UFSD 392408
 - WATER DISTRICT: PEARL RIVER WTD03
 - LIGHTING DISTRICT: N/A
 - DATING: MAY 88
 - ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
 - THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239.6M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
 - THE PROPOSED PEDESTRIAN BRIDGE IS PRIVATELY OWNED, AND SHALL BE MAINTAINED BY THE OWNER.
 - SIDEWALKS AND CURBS SHALL BE INSTALLED IN ACCORDANCE WITH THE HIGHWAY DEPARTMENT'S SPECIFICATIONS FOR SIDEWALKS AND CURBS.
 - THE APPLICANT SHALL COMPLY WITH ALL PERTINENT ITEMS IN THE GUIDE TO THE PREPARATION OF SITE PLANS AND BOARD DECISIONS PRIOR TO SIGNING THE FINAL PLANS.
 - ALL REVIEWS AND APPROVALS FROM VARIOUS GOVERNMENTAL AGENCIES MUST BE OBTAINED PRIOR TO STAMPING OF THE SITE PLAN.
 - THE PLANNING BOARD SHALL RETAIN JURISDICTION OVER LIGHTING, LANDSCAPING, SIGNS, AND REFUSE CONTROL.
 - AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, INCLUDING THE INSTALLATION OF EROSION CONTROL DEVICES OR THE REMOVAL OF TREES AND VEGETATION, A PRE-CONSTRUCTION MEETING MUST BE HELD WITH THE TOWN OF ORANGTOWN DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING, SUPERINTENDENT OF HIGHWAYS, AND THE OFFICE OF BUILDING, ZONING AND PLANNING ADMINISTRATION AND ENFORCEMENT. IT IS THE RESPONSIBILITY AND OBLIGATION OF THE PROJECT'S OWNER TO ARRANGE SUCH A MEETING.
 - ADDITIONAL CERTIFICATION, BY AN APPROPRIATE LICENSED OR CERTIFIED DESIGN PROFESSIONAL, SHALL BE REQUIRED FOR ALL MATTERS BEFORE THE PLANNING BOARD INDICATING THAT THE DRAWINGS AND PROJECT ARE IN COMPLIANCE WITH THE STORMWATER MANAGEMENT PHASE II REGULATIONS.
 - THE CONTRACTOR'S TRAILER, IF ANY IS PROPOSED, SHALL BE LOCATED AS APPROVED BY THE PLANNING BOARD.
 - THE UNDERSIGNED, OWNER AND/OR APPLICANT, AS A CONDITION OF APPROVAL OF THIS SITE PLAN, HEREBY AGREES TO COMPLETE THE WITHIN SITE DEVELOPMENT PLAN AS DRAWN AND ALL IMPROVEMENTS SHOWN THEREON, AS A CONDITION OF THE ISSUANCE OF A BUILDING PERMIT. THE APPLICANT/OWNER IS AWARE THAT NO CHANGES IN THIS PLAN MAY BE MADE UNLESS APPROVED BY THE PLANNING BOARD.
- APPLICANT _____ DATE _____
OWNER _____ DATE _____
- PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, AN AS-BUILT LANDSCAPING DRAWING SHALL BE SUBMITTED TO THE BUILDING INSPECTOR, PLANNING BOARD AND DEPARTMENT OF PUBLIC WORKS WHICH CERTIFIED BY LANDSCAPE ARCHITECT LICENSED TO PRACTICE IN THE STATE OF NEW YORK. SAID CERTIFIED LANDSCAPING DRAWING SHALL INDICATE THE DEGREE OF COMPLETION OF SAID LANDSCAPING IMPROVEMENTS IN ACCORDANCE WITH THE APPROVED SITE PLAN.
 - PLANS ARE BASED ON FIELD ENGINEERING DATA AND CERTIFIED HERETO BY:
- _____
LICENSED PROFESSIONAL ENGINEER OR
LAND SURVEYOR DATE

DATE	07/03/20	DATE	07/30/19	DATE	07/30/19
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GRADING AND DRAINAGE NOTES

1. ALL STORM DRAINAGE PIPE TO BE HIGH DENSITY POLYETHYLENE PIPE (HDPE), UNLESS OTHERWISE SPECIFIED.
2. ALL EXISTING OFF-SITE PRESENT, FENCES, GATES, WALLS AND OTHER FACILITIES OBTAINED BY THE CONTRACTOR SHALL BE RESTORED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
3. PROJECT SAFETY AND TRAFFIC MAINTENANCE ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE EXTENT OF THE CONSTRUCTION AND DISTURBANCE AREAS SHALL BE THE MINIMUM REQUIRED TO PERFORM THE CONTRACT WORK, WITH AS MINIMAL EFFECT ON ADJACENT AREAS AS POSSIBLE.
5. IF THE APPLICANT, DURING THE COURSE OF CONSTRUCTION OF ANY REQUIRED PUBLIC IMPROVEMENTS OR PRIVATE SANITARY OR STORM SEWER IMPROVEMENTS, ENCOUNTERS SUCH CONDITIONS AS FLOOD AREAS, UNDERGROUND WATER, SOFT OR SILTY AREAS, IMPROPER DRAINAGE, OR ANY OTHER UNUSUAL CIRCUMSTANCES OR CONDITIONS THAT WERE NOT FORESEEN IN THE ORIGINAL PLANNING, SUCH CONDITIONS SHALL BE REPORTED IMMEDIATELY TO DEMC, THE APPLICANT (OR THE APPLICANT'S ENGINEER) SHALL SUBMIT THEIR RECOMMENDATIONS AS TO THE SPECIAL TREATMENT OR DESIGN MODIFICATION TO BE GIVEN SUCH AREAS TO SECURE ADEQUATE, PERMANENT AND SATISFACTORY CONSTRUCTION. DEMC SHALL INVESTIGATE THE CONDITIONS, AND SHALL EITHER APPROVE THE APPLICANT'S (APPLICANT'S ENGINEER'S) RECOMMENDATIONS TO CORRECT THE CONDITIONS, OR ORDER A MODIFICATION THEREOF. IN THE EVENT OF THE APPLICANT'S (APPLICANT'S ENGINEER'S) DISAGREEMENT WITH THE DECISION OF DEMC, OR IN THE EVENT OF A SIGNIFICANT CHANGE RESULTING TO THE SUBDIVISION PLAN OR SITE PLAN OR ANY CHANGE THAT INVOLVES A WETLAND REGULATED AREA, THE MATTER SHALL BE DECIDED BY THE AGENCY WITH JURISDICTION IN THAT AREA (I.E. FEDERAL WETLANDS - ARMY CORPS OF ENGINEERS).
6. LOT DRAINAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED.
7. FEMA 100-YEAR FLOOD PLAN AND FLOODWAY WORK OBTAINED FROM FEMA MAP PANEL J08020170A, EFFECTIVE 3/3/2014.

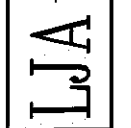


EXISTING	LEGEND	PROPOSED
	HAMMER	
	MODULAR BLOCK WALL (MESH WALL)	
	ASPHALT PAVED DRIVEWAY	
	POROUS PAVEMENT	
	BOLLARD	
	ABUTMENT	
	LIMIT OF CONCRETE & MACADAM REMOVAL	
	CONCRETE	
	STORM PIPE	
	FIELD INLET	
	FLARED END SECTION	
	CONTOUR (138)	
	SPOT ELEVATION x(142.0)	
	BUFFER	
	ROCKLAND COUNTY DRAINAGE EASEMENT	
	WETLAND DELINEATION	
	FEMA 100-YEAR FLOOD PLAN	
	FEMA FLOODWAY	

REV.	DESCRIPTION	DATE
1	SWPPP	07/20/19
2		03/02/20
3	PER BOVA COMMENTS DATED 06/09/20 PER TOWN OF ORANGETOWN PER RESOLUTION DATED 12/17/19	03/02/20



LEONARD JACKSON ASSOCIATES
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 PHONE: (845) 354-1332 FAX: (845) 354-4461



PEDESTRIAN BRIDGE AT HENRY KAUFMANN CAMPGROUND
 TOWN OF ORANGETOWN, ROCKLAND COUNTY, NEW YORK
GRADING AND DRAINAGE - PART PLANS

Job number: 18075
 Drawn by: AM
 Checked by: DR
 Date: 03/05/18
 Scale: 1" = 5'
 Drawing Number: 3

TOTAL DISTURBANCE = 3,782 S.F.
 SEE SHEET 4 FOR CALCULATION.

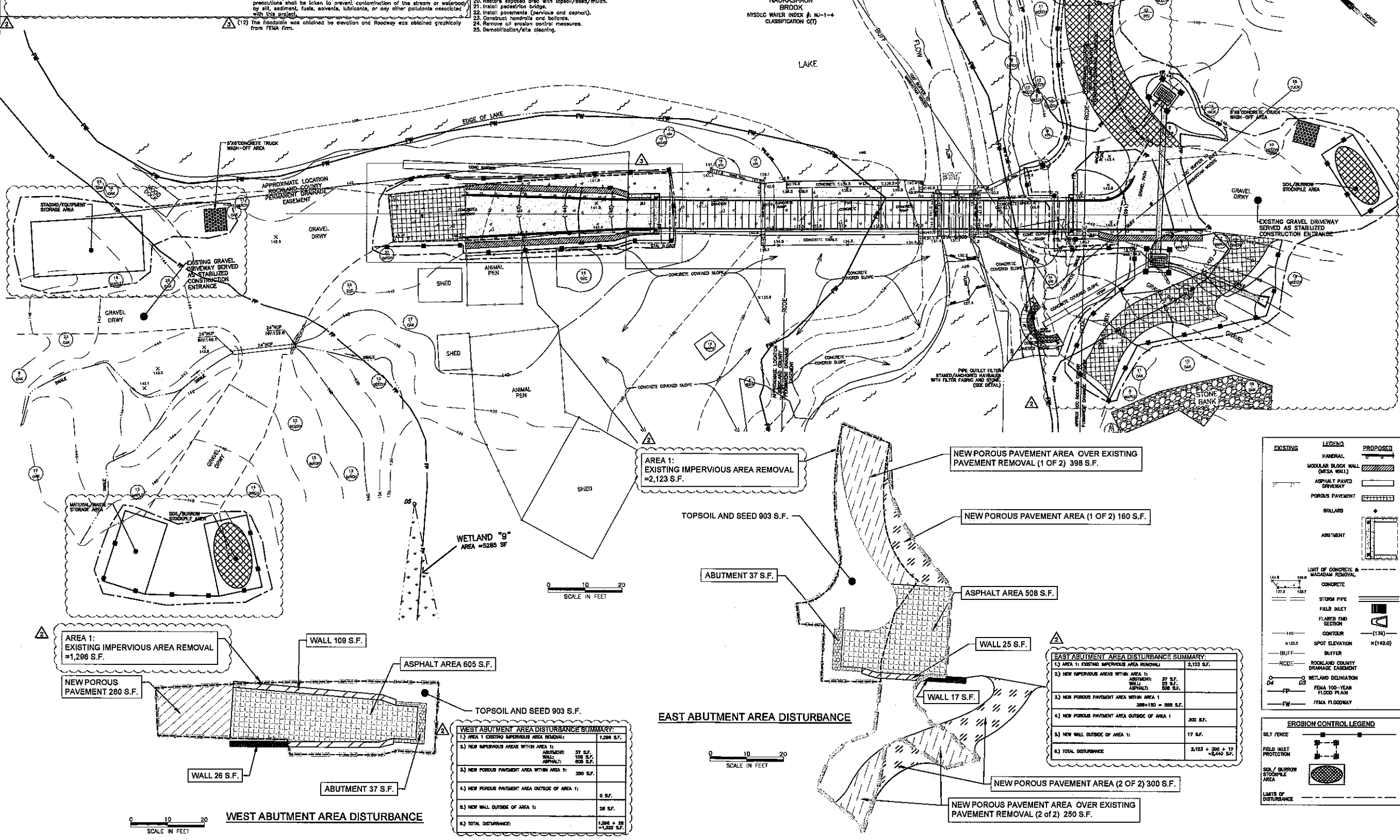
STANDARD EROSION CONTROL NOTES

- An erosion control system will be utilized by the developer to minimize the production of sediment from the site. Methods to be utilized will be those found most effective for the site and shall include, but are not limited to, one or more of the following, as applicable:
- The proposed limit of disturbance shall be demarcated in the field with snow fence.
 - Temporary sediment entrapment areas shall be provided at key locations to intercept and clarify silt laden runoff from the site. These may be excavated or may be created utilizing earth berms, log-rap or crushed stone dunn, hay bales or other suitable materials. Diversion areas, berms or other sedimentation shall be constructed to ensure that all silt laden waters are directed into the entrapment areas, which shall not be permitted to fill in, but shall be cleaned periodically during the course of construction. The collected silt shall be deposited in areas safe from further erosion.
 - All disturbed areas, except roadways, which will remain undisturbed for more than 14 days shall be temporarily seeded with 1/2 lb. of ryegrass or mulched with 100 lbs. of straw or hay per 1,000 sq. ft. Roadways shall be stabilized as rapidly as practical by the installation of the base course, but temporary asphalt stabilization may be required.
 - Soil that leaves the site in spite of the required precautions shall be collected and removed.
 - Dust control: should dust become a nuisance during construction occasional watering of the site may be necessary and will be performed as required.
 - Erosion in the vicinity of soil slopes shall be prevented by installing silt fence reinforced with hay bales around the perimeter of the site. Temporary seeding shall be applied to the slope(s) if the site is to remain unused and undisturbed for more than 14 days.
 - All erosion and sediment control measures and devices shall remain in place and shall be maintained by the contractor in accordance with Town and NYSDEC requirements and regulations until the site has been fully stabilized in accordance with NYSDEC regulations.
 - All landscaping shown on this site plan shall be maintained in a vigorous growing condition throughout the duration of the use of the site. Any plants not so maintained shall be replaced with new plants at the beginning of the next immediately following growing season.

- Permanent vegetation cover of disturbed areas shall be established on the site within sixty (60) days of the completion of construction.
- The Tree Protection and Preservation Guidelines adopted pursuant to Section 21-24 of the Land Development Regulations of the Town of Orangetown will be implemented in order to protect and preserve both individual specimen trees and buffer areas with many trees. Steps that will be taken to preserve and protect existing trees to remain are as follows:
 - No construction equipment shall be parked under the tree canopy.
 - There will be no excavation or staking of earth underneath the trees.
 - Tree designated to be preserved shall be marked conspicuously on all sides at a 5 to 10 foot height.
 - The Tree Protection Zone for trees designated to be preserved will be established by one of the following methods:
 - One (1) foot radius from trunk per inch DBH.
 - Drip line of the Tree Canopy. The method chosen shall be based on providing the maximum protection zone possible. A barrier of snow fence or equal is to be placed and maintained one yard beyond the established tree protection zone. If it is agreed that the tree protection zone of a selected tree must be violated, one of the following methods must be employed to mitigate the impact:
 - Light to Heavy Impacts - Minimum of eight inches of wood chips installed in the area to be protected. Chips shall be removed upon completion of work.
 - Light Impacts Only - Installation of 1/2 inch of plywood or boards, or equal over the area to be protected.

SEQUENCE OF CONSTRUCTION

- Hold pre-construction meeting, at the site (including owner, construction manager, contractor, Leonard Jackson Associates, and town representatives, including building inspector and engineer).
- Contractor and subcontractors to sign SWPPP certification and all contractors shall be informed of SWPPP requirements.
- Prior to the commencement of any site work, including the removal of trees, the applicant shall install the soil erosion and sedimentation control as required by the Planning Board.
- Per a pre-construction meeting, approved with any other agency, the Town of Orangetown, Department of Environmental Management and Engineering (DEME) shall inspect the installation of all required soil erosion and sedimentation control measures. The applicant shall contact DEME at least 48 hours in advance for an inspection.
- Inspection of all erosion and sediment control measures shall be performed daily - maintenance if needed shall commence within one day of notice of deficiency and shall be completed within a reasonable time frame. All erosion and sediment control measures shall remain in place until construction is completed and/or stabilized.
- No more than 5 acres of undisturbed land shall be permitted to exist on the site at any time. Stabilization of disturbed land shall be applied continuously as needed to meet this requirement.
- Install all fence down slope of all areas to be disturbed and down slope of all areas of topsoil stockpiling and erodible material stockpiling.
- Stockpile areas shall be covered with anchored tarps each night.
- Soil disturbance activities during general excavation water truck will be made available and used onsite for spraying/wetting to suppress and prevent the off-site migration of dust for isolated areas of soil disturbance where there is no truck access, portable water tank with hose and pump will be used for constant spraying/wetting of soil.
- The contractor shall not deviate from the sequence unless directed by the engineer.
- Install 6' chain link perimeter security fence and gates as needed.
- Inspect and restore construction access road in accordance with plans and details.
- Install de-watering mechanism to prepare for the construction of the abutments.
- Mark existing on-site utilities location with physical marker, contractor to take precaution to avoid damage to existing utilities.
- Protect temporary sedimentation measure and stockpile areas.
- Remove existing pavement (gravel, concrete and asphalt).
- Excavate, form, and pour the abutments.
- Construct retaining walls.
- Grade access ramps to abutments to subgrade.
- Restore exposed area with topsoil/seed/mulch.
- Construct handrails and bollards.
- Install pedestrian bridge.
- Install pavements (concrete and asphalt).
- Construct handrails and bollards.
- Remove all erosion control measures.
- Demobilization/site clearing.



DATE	07/30/19
REV.	2
REV.	1
DATE	03/02/20
DATE	06/02/20
DATE	07/02/20

LEONARD JACKSON ASSOCIATES
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LJA
 PEDESTRIAN BRIDGE AT
 HENRY KAUFMANN CAMPGROUND
 TOWN OF ORANGETOWN, ROCKLAND COUNTY, NEW YORK
 EROSION CONTROL PLAN

Job number: 16075
 Drawn by: JL
 Checked by: JL
 Date: 07/30/19
 Scale: 1" = 10'
 Drawing Number: 4

STANDARD AND SPECIFICATIONS FOR CONCRETE TRUCK WASHOUT

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of concrete truck washout facilities. The facility shall be designed to clean concrete trucks and equipment used in the construction process. The facility shall be located on the project site and shall be maintained in good working order at all times.

Conditions Where Practice Applies

This standard applies to all concrete trucks and equipment used in the construction process. It shall be maintained in good working order at all times.

Design Criteria

The facility shall be designed to handle the maximum number of trucks and equipment that will be used on the project. It shall be designed to clean the trucks and equipment to the satisfaction of the local health department.

Table 2.24

STANDARD AND SPECIFICATIONS FOR PROTECTING VEGETATION DURING CONSTRUCTION

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of measures to protect vegetation during construction. The measures shall be designed to prevent the loss of vegetation and to restore the vegetation to its original condition.

Conditions Where Practice Applies

This standard applies to all construction activities that may affect vegetation. It shall be maintained in good working order at all times.

Design Criteria

The measures shall be designed to protect the vegetation from the effects of construction activities. It shall be designed to restore the vegetation to its original condition.

Table 2.25

STANDARD AND SPECIFICATIONS FOR STABILIZED CONSTRUCTION ACCESS

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of stabilized construction access. The access shall be designed to provide a safe and stable path for construction equipment and personnel.

Conditions Where Practice Applies

This standard applies to all construction access that is stabilized. It shall be maintained in good working order at all times.

Design Criteria

The access shall be designed to provide a safe and stable path for construction equipment and personnel. It shall be designed to prevent erosion and to provide a firm surface.

Table 2.26

STANDARD AND SPECIFICATIONS FOR DEWATERING SUMP PIT

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of dewatering sump pits. The pits shall be designed to collect and remove water from the construction site.

Conditions Where Practice Applies

This standard applies to all dewatering sump pits. It shall be maintained in good working order at all times.

Design Criteria

The pits shall be designed to collect and remove water from the construction site. It shall be designed to prevent overflow and to provide a safe and stable path for the water.

Table 2.27

STANDARD AND SPECIFICATIONS FOR PERMANENT CONSTRUCTION AREA PLANTING

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of permanent construction area planting. The planting shall be designed to restore the construction area to its original condition.

Conditions Where Practice Applies

This standard applies to all permanent construction area planting. It shall be maintained in good working order at all times.

Design Criteria

The planting shall be designed to restore the construction area to its original condition. It shall be designed to provide a safe and stable path for the vegetation.

Table 2.28

Figure 3.3 Dewatering Sump Pit Detail

CONSTRUCTION SPECIFICATIONS

- PIT DIMENSIONS ARE VARIABLE.
- THE SUMP PIT SHOULD BE CONSTRUCTED BY PERFORMING A 12"-24" DIAMETER EXCAVATION OF P.V.C. PIPE.
- BASE OF PIT WITH 1/2" OF EQUIVALENT AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STAMPING, THE PIT SURROUNDING THE STAMPING SHOULD BE BACKFILLED WITH 1/2" OF EQUIVALENT AGGREGATE.
- THE STAMPING SHOULD EXTEND 12" ABOVE THE LIP OF THE PIT.
- IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STAMPING SHOULD BE WARMED WITH FILTRATION BEFORE INSTALLATION. IT IS RECOMMENDED THAT 1/2"-1 1/2" FILTER FABRIC BE PLACED AROUND THE STAMPING, PRIOR TO ATTACHING THE FILTER FABRIC.

Table 2.29

STANDARD AND SPECIFICATIONS FOR MULCHING

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of mulching. The mulch shall be designed to prevent erosion and to provide a safe and stable path for the vegetation.

Conditions Where Practice Applies

This standard applies to all mulching. It shall be maintained in good working order at all times.

Design Criteria

The mulch shall be designed to prevent erosion and to provide a safe and stable path for the vegetation. It shall be designed to provide a firm surface.

Table 2.30

Table 4.2 Guide to Mulch Materials, Rates, and Uses

Mulch Material	Rate (lb/100 sq ft)	Use
Straw	2,000	Soil erosion control, weed control
Wood chips	400	Soil erosion control, weed control
Compost	2,000	Soil erosion control, weed control
Grass	2,000	Soil erosion control, weed control

Table 4.3 Mulch Anchoring Guide

Anchoring Method or Material	How to Apply
1. Peg and Twine	Apply to the surface of the mulch. Drive 4 pegs per 100 sq ft to 3" of soil surface. Secure twine in surface by stretching between holes.
2. Mulch matting	Apply to the surface of the mulch. Drive pegs into soil at 2' or more high intervals. Drive pegs into soil at 2' or more high intervals.
3. Wood mulch fabric	Apply to the surface of the mulch. Drive pegs into soil at 2' or more high intervals. Drive pegs into soil at 2' or more high intervals.
4. Mulch anchoring tool	Apply to the surface of the mulch. Drive pegs into soil at 2' or more high intervals. Drive pegs into soil at 2' or more high intervals.
5. Tackifier	Apply to the surface of the mulch. Drive pegs into soil at 2' or more high intervals. Drive pegs into soil at 2' or more high intervals.

Table 4.4 Permanent Construction Area Planting Mixture Recommendations

Seed Mixture	Year 1	Year 2	Year 3
Mix #1	10	25	25
Mix #2	10	25	25
Mix #3	10	25	25
Mix #4	10	25	25
Mix #5	10	25	25
Mix #6	10	25	25
Mix #7	10	25	25
Mix #8	10	25	25
Mix #9	10	25	25
Mix #10	10	25	25

Table 4.5 Standard and Specifications for Temporary Construction Area Seeding

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of temporary construction area seeding. The seeding shall be designed to prevent erosion and to provide a safe and stable path for the vegetation.

Conditions Where Practice Applies

This standard applies to all temporary construction area seeding. It shall be maintained in good working order at all times.

Design Criteria

The seeding shall be designed to prevent erosion and to provide a safe and stable path for the vegetation. It shall be designed to provide a firm surface.

Table 4.6

STANDARD AND SPECIFICATIONS FOR SILT FENCE

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of silt fences. The fences shall be designed to prevent erosion and to provide a safe and stable path for the vegetation.

Conditions Where Practice Applies

This standard applies to all silt fences. It shall be maintained in good working order at all times.

Design Criteria

The fences shall be designed to prevent erosion and to provide a safe and stable path for the vegetation. It shall be designed to provide a firm surface.

Table 4.7

STANDARD AND SPECIFICATIONS FOR SOIL EROSION CONTROL

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of soil erosion control. The control shall be designed to prevent erosion and to provide a safe and stable path for the vegetation.

Conditions Where Practice Applies

This standard applies to all soil erosion control. It shall be maintained in good working order at all times.

Design Criteria

The control shall be designed to prevent erosion and to provide a safe and stable path for the vegetation. It shall be designed to provide a firm surface.

Table 4.8

STANDARD AND SPECIFICATIONS FOR CONSTRUCTION AREA PLANTING

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of construction area planting. The planting shall be designed to restore the construction area to its original condition.

Conditions Where Practice Applies

This standard applies to all construction area planting. It shall be maintained in good working order at all times.

Design Criteria

The planting shall be designed to restore the construction area to its original condition. It shall be designed to provide a safe and stable path for the vegetation.

Table 4.9

STANDARD AND SPECIFICATIONS FOR TEMPORARY CONSTRUCTION AREA SEEDING

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of temporary construction area seeding. The seeding shall be designed to prevent erosion and to provide a safe and stable path for the vegetation.

Conditions Where Practice Applies

This standard applies to all temporary construction area seeding. It shall be maintained in good working order at all times.

Design Criteria

The seeding shall be designed to prevent erosion and to provide a safe and stable path for the vegetation. It shall be designed to provide a firm surface.

Table 4.10

STANDARD AND SPECIFICATIONS FOR SILT FENCE

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of silt fences. The fences shall be designed to prevent erosion and to provide a safe and stable path for the vegetation.

Conditions Where Practice Applies

This standard applies to all silt fences. It shall be maintained in good working order at all times.

Design Criteria

The fences shall be designed to prevent erosion and to provide a safe and stable path for the vegetation. It shall be designed to provide a firm surface.

Table 4.11

STANDARD AND SPECIFICATIONS FOR SOIL EROSION CONTROL

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of soil erosion control. The control shall be designed to prevent erosion and to provide a safe and stable path for the vegetation.

Conditions Where Practice Applies

This standard applies to all soil erosion control. It shall be maintained in good working order at all times.

Design Criteria

The control shall be designed to prevent erosion and to provide a safe and stable path for the vegetation. It shall be designed to provide a firm surface.

Table 4.12

STANDARD AND SPECIFICATIONS FOR CONSTRUCTION AREA PLANTING

Definition & Scope

This standard specifies the minimum requirements for the design, construction, and maintenance of construction area planting. The planting shall be designed to restore the construction area to its original condition.

Conditions Where Practice Applies

This standard applies to all construction area planting. It shall be maintained in good working order at all times.

Design Criteria

The planting shall be designed to restore the construction area to its original condition. It shall be designed to provide a safe and stable path for the vegetation.

Table 4.13

LEONARD JACKSON ASSOCIATES

CONSULTING ENGINEERS

20 PRINCE STREET, SUITE 1000, NEW YORK, NY 10014

PHONE: (212) 362-1100 FAX: (212) 362-1101

IJA

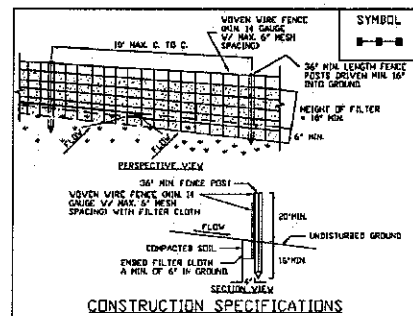
PEDESTRIAN BRIDGE AT HENRY KAUFMANN CAMPGROUND TOWN OF ORANGETOWN, ROCKLAND COUNTY, NEW YORK

CONSTRUCTION DETAILS (2 of 3)

300 North Street
16075
New York, NY 10014

Drawn by: JL
Checked by: JL
Date: 07/18/19
Scale: 1" = 10'
Drawing Number: 6

Figure 5.30
Reinforced Silt Fence

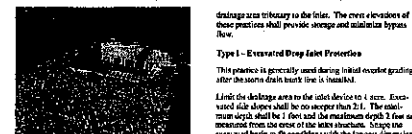


CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER 1/2" OR 3/4" TYPE OR HARDWOOD.
2. FILTER FABRIC SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FILTER FABRIC SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 12" HORIZ. AND VERT. FILTER FABRIC SHALL BE EITHER FILTER A, MIRAFI 140K, STABILINKA 11420K, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULKY" DEVELOPS IN THE SILT FENCE.

ADAPTED FROM DETAILS PROVIDED BY USDA - NRCS, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMISSION

STANDARD AND SPECIFICATIONS FOR
STORM DRAIN INLET PROTECTION



Definition & Scope
A temporary barrier with low permeability, installed around inlets in the form of a fence, berm or excavation around an opening, detaching surface soil directly reducing the sediment content of surface water by settling. This prevents the heavily sediment laden water from entering a storm drain system.

Conditions Where Practice Applies
This practice shall be used where the drainage area to an inlet is disturbed, it is not possible to temporarily divert the storm drain out fall into a temporary device, and temporary blocking of inlet is not suitable. It is not to be used if direct sediment transport occurs. This practice shall be used with an upstream barrier area if placed in a storm drain inlet on a paved surface. It may be used in conjunction with storm drain disinfection to help prevent siltation of pipe installed with low slope slope.

Types of Storm Drain Inlet Practices
There are five (5) specific types of storm drain inlet protection practices that may be used depending on inlet function, location, drainage area, and availability of materials:
I. Excavated Drop Inlet Protection
II. Fabric Drop Inlet Protection
III. Stone & Block Drop Inlet Protection
IV. Paved Surface Inlet Protection
V. Manufactured Inlet Protection

Design Criteria
Drainage area: The drainage area the storm drain inlet shall not exceed one acre. Function: storm water runoff application measures must be implemented on the disturbed.

supported lower walls. Support stakes for fabric shall be 1/2" diameter of steel, spaced at a maximum of 2 feet apart. They should be driven into the soil on an angle over the edge from the fabric and not on the unsupported side. The level of performance and sediment storage volume can be obtained by excavating the area.

Type I - Elevated Drop Inlet Protection
This practice is generally used during initial erosion grading after the storm drain bank has been finished.
Limit the drainage area to the inlet device to 4 acres. Excavated area shall be no deeper than 2:1. The maximum slope shall be 1:1 and the maximum depth 2 feet to be measured from the crest of the inlet structure. Slope the area and backfill to 20 centimeters with the largest dimension oriented toward the longest inflow area to provide maximum soil efficiency. The capacity of the excavated basin should be equal to or greater than 100 cubic feet per acre of disturbed area. Weep holes, provided by fabric and stone, should be provided for draining the temporary pool.

Type III - Stone and Block Drop Inlet Protection
This practice is generally used during the initial and intermediate grading of a construction site.
Limit the drainage area to 1 acre at the drop inlet. The stone barrier shall have a minimum height of 1 foot and a maximum length of 2 feet. Do not use coarse. The height should be limited to prevent erosion around the inlet.

Type IV - Paved Surface Inlet Protection
This practice is generally used after you cannot construct a barrier above the storm drain inlet. It is used to prevent sediment from entering the storm drain inlet. It is used to prevent sediment from entering the storm drain inlet. It is used to prevent sediment from entering the storm drain inlet.

Type V - Manufactured Inlet Protection
This structure should be installed after every storm event. Any sediment should be removed and disposed of on the site. Any broken or damaged components should be replaced. Check all connections for proper anchorage and secure as necessary.

Design Criteria
The barrier should be installed after each rain event and repair made when needed. Remove sediment as necessary to prevent the structure storage volume. The sediment storage volume should be maintained by excavating the area, remove all materials and any unstable soil and dispose of properly. Being the disturbed area to proper grade, smooth, compact and stabilize in a manner appropriate to the site.

The drainage area should be limited to 1 acre at the drain inlet. All practices will be placed on the inlet structure or beyond to maximize the flow capacity of the inlet. Practices shall be installed, placed, used, or otherwise anchored to prevent movement or shifting of location on paved surfaces. Traffic safety shall be integrated with the use of this practice. All practices should be marked with traffic safety cones as appropriate. Structure height shall not cause flooding or by-pass flow that would cause additional erosion.

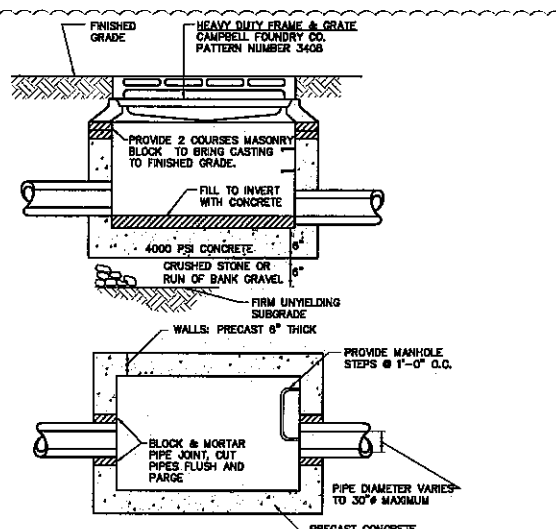
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Type V - Manufactured Inlet Protection
This structure should be installed after every storm event. Any sediment should be removed and disposed of on the site. Any broken or damaged components should be replaced. Check all connections for proper anchorage and secure as necessary.

Design Criteria
The drainage area shall be limited to 1 acre at the drain inlet. All inlets will be installed and anchored in accordance with the manufacturer's recommendations and design details. The fabric portion of the structure will equal or exceed the performance standard for the best fabric device. The fabric will be installed to prevent a minimum of 50 percent of the silt, sand and sediment from entering the storm drain inlet opening to maintain capacity for storm events.

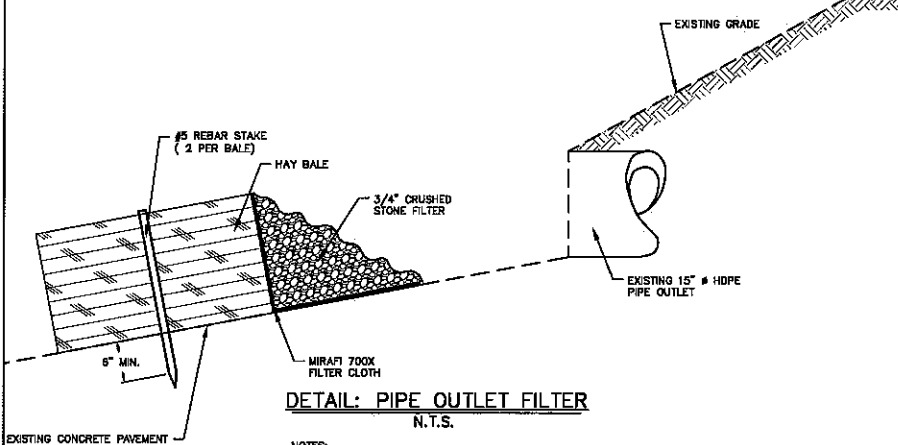
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Design Criteria
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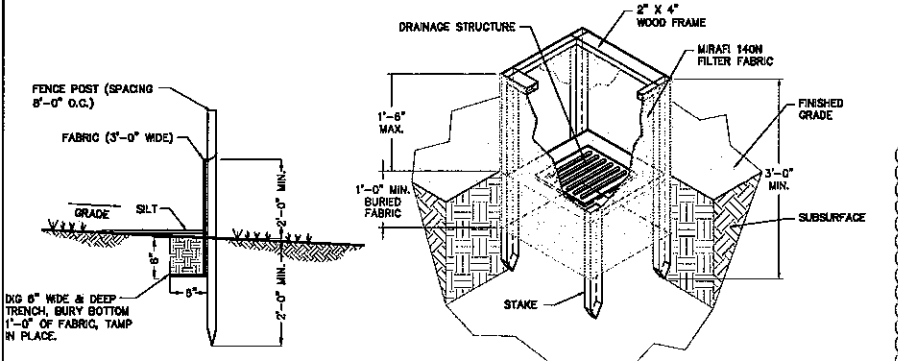
FIELD INLET DETAIL
N.T.S.

NOTE: MINIMUM STRENGTH CONCRETE 4000 PSI WALL THICKNESS 4" WITH ADEQUATE STEEL REINFORCEMENT TO WITHSTAND H20 HIGHWAY LOAD AND SOIL LOADS.



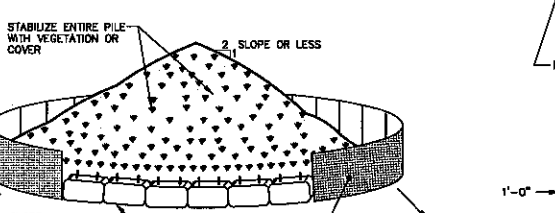
DETAIL: PIPE OUTLET FILTER
N.T.S.

NOTES:
1. REFER TO PLAN, EAST ABUTMENT AREA FOR OUTLET LOCATION



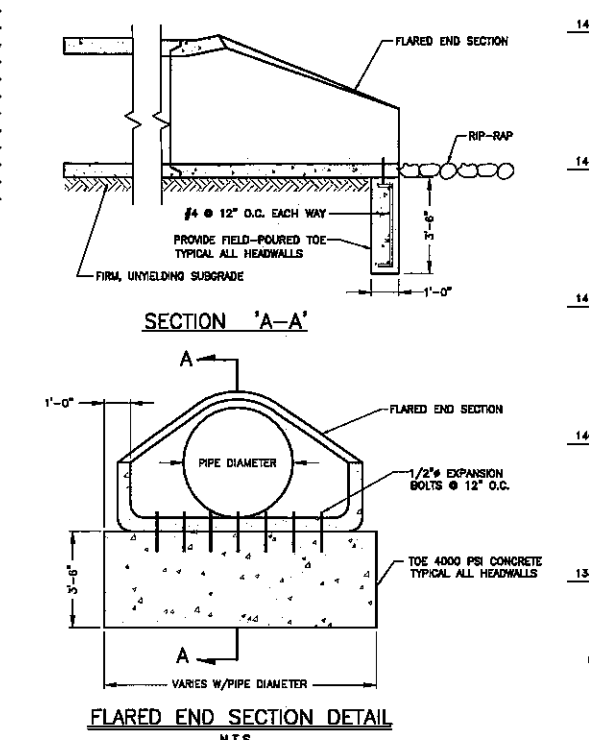
FIELD INLET PROTECTION DETAIL
N.T.S.

- NOTES:
1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
 2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS, IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
 3. STAKE MATERIALS WILL BE STANDARD 2" X 4" WOOD OR EQUIVALENT, METAL WITH A MINIMUM LENGTH OF 3 FEET.
 4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
 5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
 6. A 2" X 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

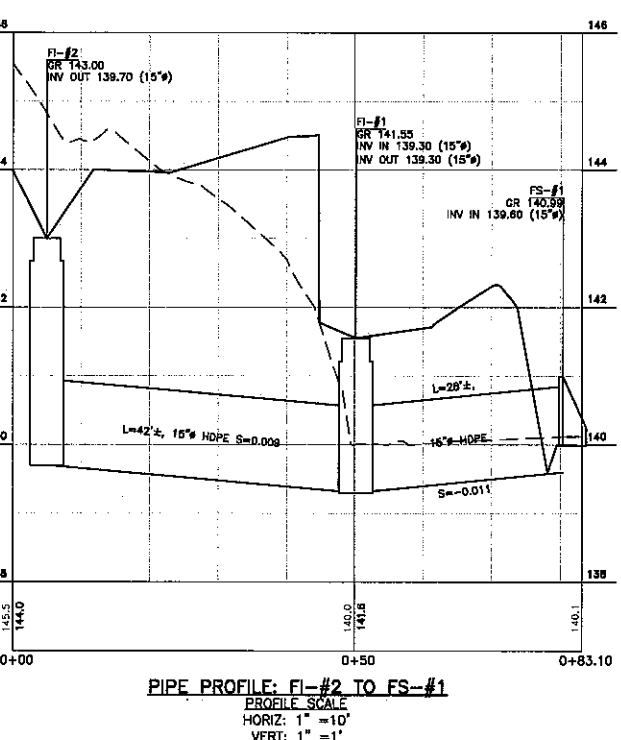


SOIL STOCKPILING
N.T.S.

- INSTALLATION NOTES
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCE OR STRAW BALES, THEN STABILIZED WITH VEGETATION OR COVERED.



FLARED END SECTION DETAIL
N.T.S.



PIPE PROFILE: FI-#2 TO FS-#1
PROFILE SCALE
HORIZ: 1" = 10'
VERT: 1" = 1'

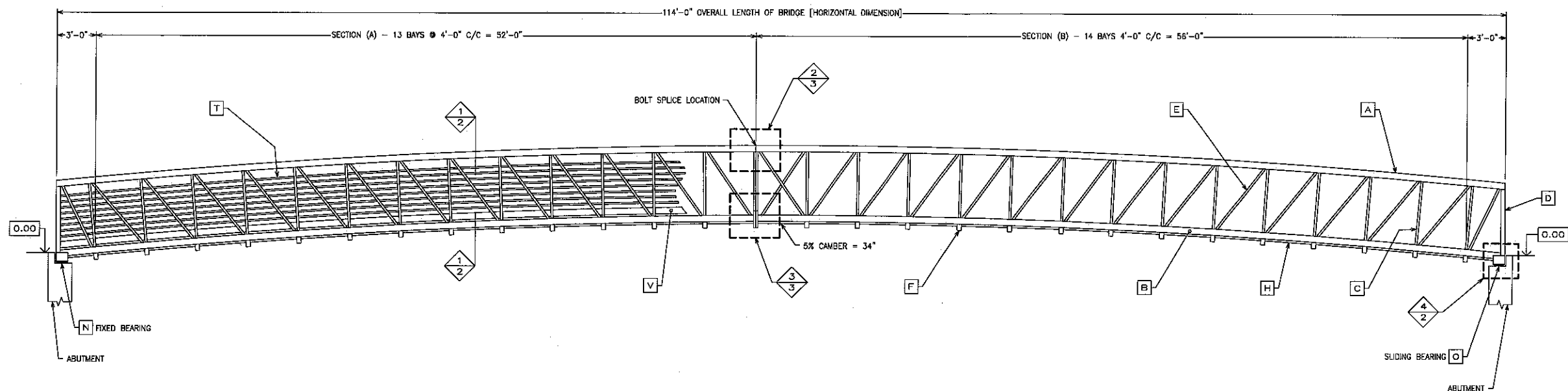


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PHONE: (516) 334-4300 FAX: (516) 334-4401

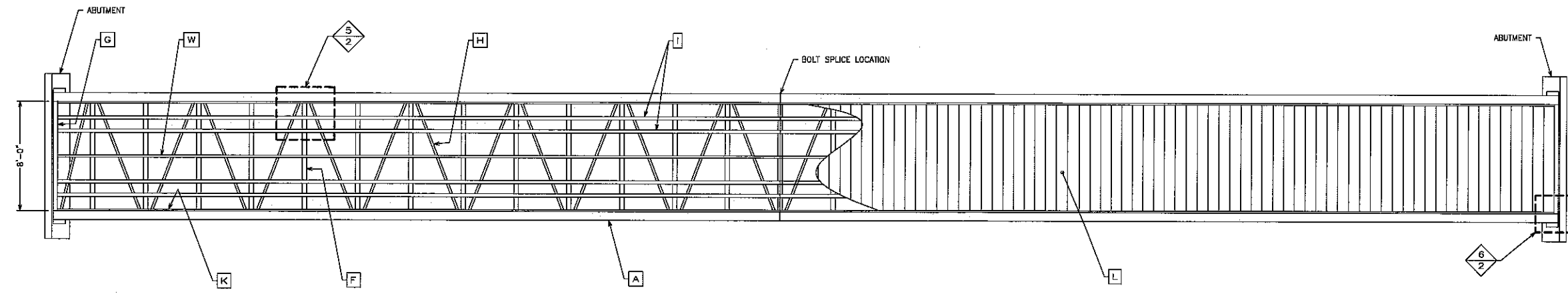
LJA

PEDESTRIAN BRIDGE AT
HENRY KAUFMANN CAMPGROUND
TOWN OF ORANGETOWN, ROCKLAND COUNTY, NEW YORK
CONSTRUCTION DETAILS (3 of 3) AND STORM PIPE PROFILE

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Checked by: [Signature]
Date: 07/18/19
Scale: 1" = 10'
Drawing Number: 7



BRIDGE ELEVATION



BRIDGE PLAN

NOTES:
 DESIGN IN ACCORDANCE TO THE FOLLOWING CODES:
 • AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7th EDITION
 • AISC MANUAL OF STEEL CONSTRUCTION 9th EDITION
 • AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES

UNIFORM LOAD:
 • SUPERIMPOSED DEAD LOAD = 10 PSF
 • LIVE LOAD = 85 PSF
 • VEHICLE LOAD = LIGHT VEHICLE 1,500 LBS MAXIMUM
 • LATERAL WIND = 81 PSF
 • UPLIFT WIND = 180 PSF APPLIED AT 1/2 OF DECK WIDTH
 • NO FLOODING OR ICE LOADING ACCOUNTED FOR
 • BRIDGE TOTAL EXPANSION/CONTRACTION ±1.12"

STRUCTURAL STEEL TO CONFORM TO ASTM A847 WEATHERING STEEL (COR-TEN)
 WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.5
 MODIFICATIONS OF ANY TYPE MADE TO THIS BRIDGE STRUCTURE ARE STRICTLY PROHIBITED AND WILL RESULT IN A VOID WARRANTY
 ALL EXPOSED TUBE ENDS ARE TO BE CAPPED
 STRUCTURAL STEEL CONFORMS TO ASTM A847 ATMOSPHERIC CORROSION RESISTANT STEEL
 ALL EXPOSED TUBE ENDS TO BE CAPPED
 MODIFICATIONS OF ANY TYPE MADE TO THIS BRIDGE STRUCTURE IS STRICTLY PROHIBITED AND WILL RESULT IN A VOID WARRANTY
 DO NOT APPLY SALT OR CALCIUM TO THIS STRUCTURE.

LENGTH OF BRIDGE	114'-0" (OVERALL LENGTH OF BRIDGE)
WIDTH OF BRIDGE	8'-0" (CLEAR INSIDE WIDTH BETWEEN CHORDS)
BRIDGE SERIAL NUMBER	E17-111583
BRIDGE WEIGHT	35,700 LBS.

MATERIAL LIST		
A	TOP CHORD	HSS 8 X 6 X 0.375
B	BOTTOM CHORD	HSS 8 X 6 X 0.250
C	VERTICAL	HSS 6 X 2 X 0.250
D	END VERTICAL	HSS 6 X 4 X 0.250
E	DIAGONAL	HSS 3 X 2 X 0.187
F	FLOOR BEAM	HSS 6 X 4 X 0.250
G	END FLOOR BEAM	HSS 6 X 4 X 0.250
H	WIND DIAGONAL	HSS 2 X 2 X 0.187
I	STRINGER	HSS 3 X 2 X 0.187
K	U/L DECK ANGLES	L 1.5 X 1.5 X 0.125
L	BRIDGE DECK	NOMINAL 2 X 10 PT SPF WOOD
N	BEARING PAD - FIXED	2 - 210 FABREEKA PAD 8 X 8 X 1" THK
O	BEARING PAD - SLIDING	2 - 225 FABREEKA PTFE 8 X 8 X 1" THK
P	ANCHOR BOLTS	8 - #1" HILTI HAS-E ANCHOR RODS WITH HIT-HY 200 ADHESIVE OR EQUIVALENT
Q	DECK FASTENER AT ANGLE	#0.250" X 2" LONG THREAD FORMING SCREW
R	BRIDGE BASE PLATE	12.134" X 11.15" X 0.750" THK PLATE
T	HORIZONTAL SAFETY RAILS	1.500 X 0.125" THK SEMI-CIRCULAR RAIL
U	DECK FASTENER AT STRINGER	#0.250" X 2" LONG THREAD FORMING SCREW
V	TOE PLATE	6" X 0.187" THK PLT
W	CENTER STRINGER	HSS 2 X 2 X 0.187
X	HANDRAIL	#1.7" GALVANIZED PIPE HANDRAIL

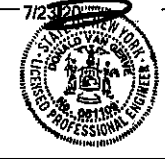
PROJECT No: 1583	SCALE: AS SHOWN	1 of 4 R2
DRAWN BY: MGB	DATE: FEB 25-18	
CHECKED BY: WB		
DESIGNED BY: AW		

1. This drawing is the exclusive property of Eagle Bridge Ltd and the reproduction of any part without prior written consent of this office is strictly prohibited.
 2. The contractor shall verify all dimensions, levels, and details on site and report any discrepancies or omissions to this office prior to fabrication.
 3. This drawing is to be read and understood in conjunction with all other plans and documents applicable to this project.

No.	ISSUE/REVISION	DATE
1	SUBMITTED FOR REVIEW	DEC 8-17
2	REVISED TO SHOW HANDRAIL & CORRECTED SITE LOCATION	FEB 25-18



MTE Consultants Inc.
 Structural analysis,
 design, and connections.

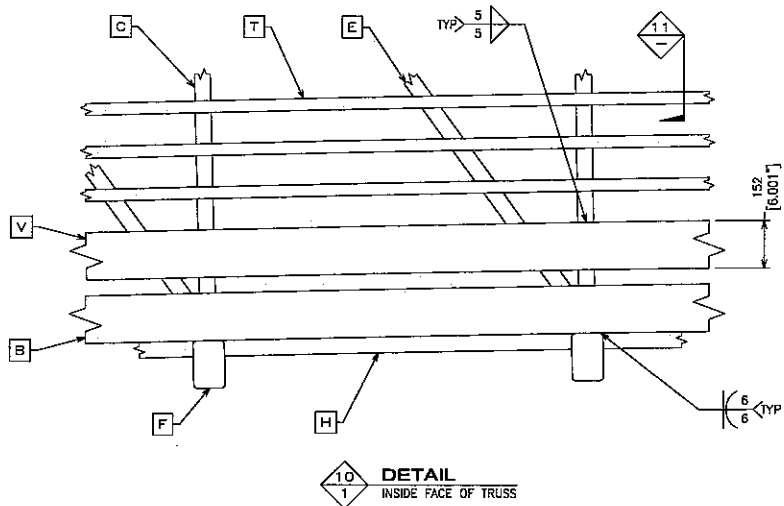
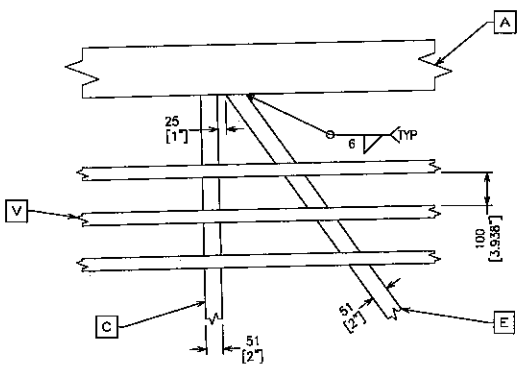
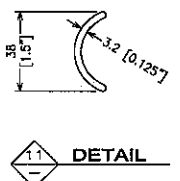
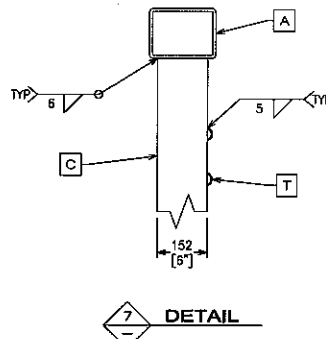
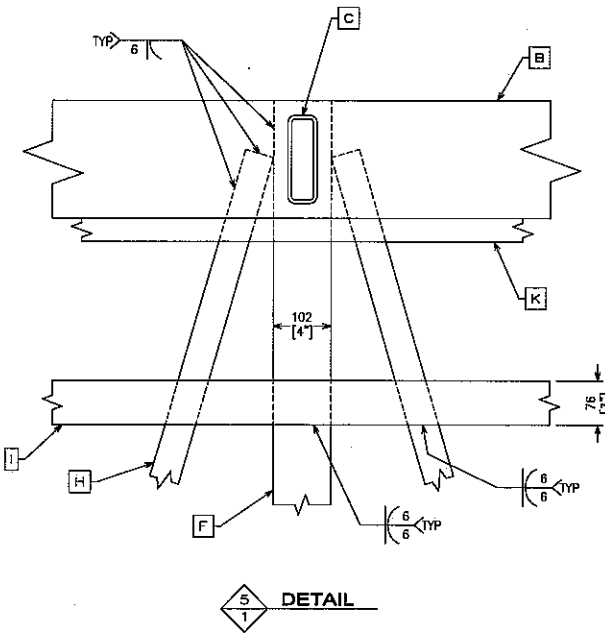
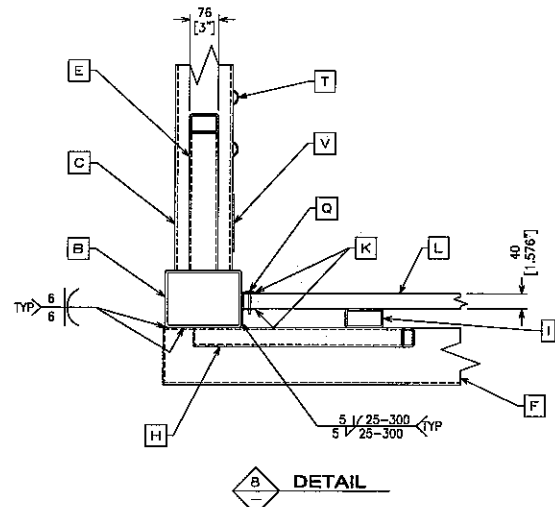
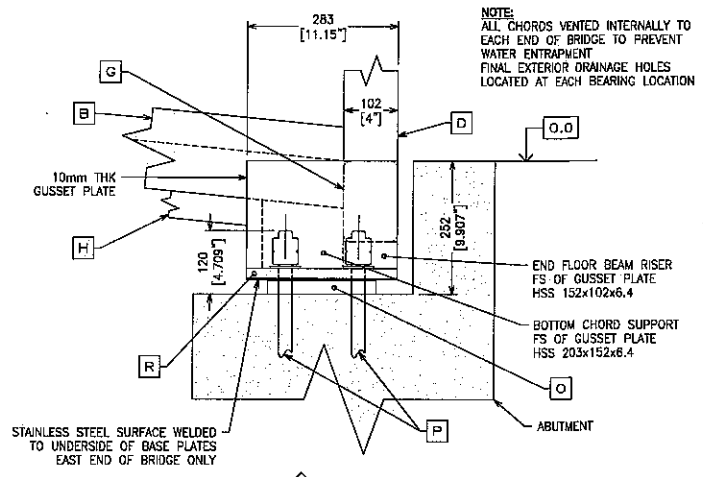
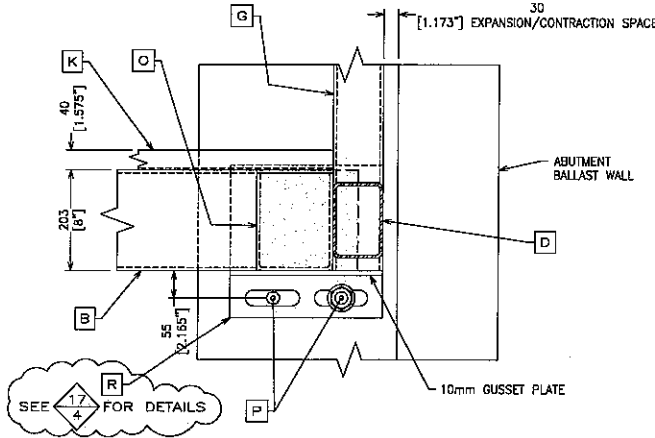
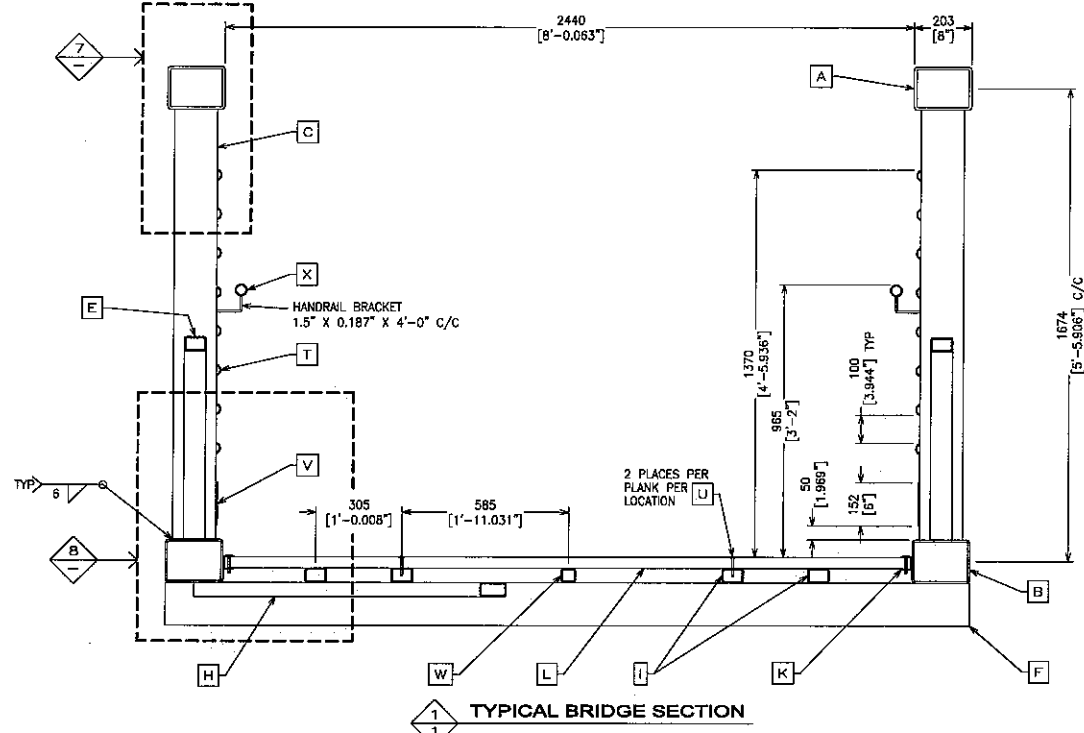


DETAIL #
 PAGE #

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 Kitchener, ON N2B-2E1 CANADA
 T 519.743.4353 - F 519.489.1455
 eaglebridge@bellnet.ca

GENERAL CONTRACTOR:
 ACROW BRIDGE
 181 NEW ROAD
 PARSIPPANY, NJ 07054-5645
 T 973-244-0080

DRAWING TITLE:
 GENERAL ARRANGEMENT
 HENRY KAUFMANN CAMPGROUNDS
 PEDESTRIAN BRIDGE CONSTRUCTION
 PEARL RIVER, NY



LENGTH OF BRIDGE	114'-0" (OVERALL LENGTH OF BRIDGE)
WIDTH OF BRIDGE	8'-0" (CLEAR INSIDE WIDTH BETWEEN CHORDS)
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W	CENTER STRINGER	HSS 2 X 2 X 0.187
X	HANDRAIL	#1.7" GALVANIZED PIPE HANDRAIL

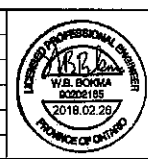
PROJECT No: 1583	SCALE: AS SHOWN	2 of 4
DRAWN BY: MGB	DATE: FEB 25-18	
CHECKED BY: WB		R2
DESIGNED BY: AW		

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No.	ISSUE/REVISION	DATE
1	SUBMITTED FOR REVIEW	DEC 6-17
2	REVISED TO SHOW HANDRAIL & CORRECTED SITE LOCATION	FEB 25-18



MTE Consultants Inc.
Structural analysis,
design, and connections.

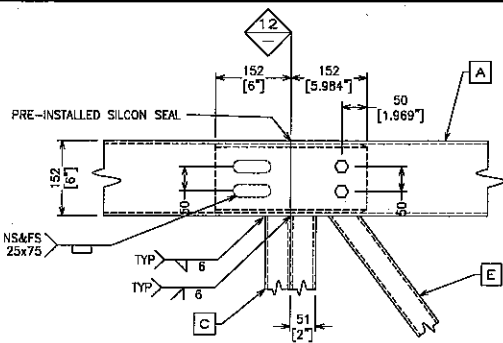


DETAIL #
SHEET #

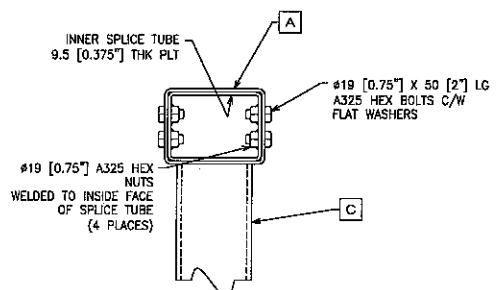
EAGLE BRIDGE Ltd.
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Kitchener, ON N2B-2E1 CANADA
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eaglebridge@bellnet.ca

CLIENT:
ACROW BRIDGE
181 NEW ROAD
PARSIPPANY, NJ 07054-5645
T 973-244-0080

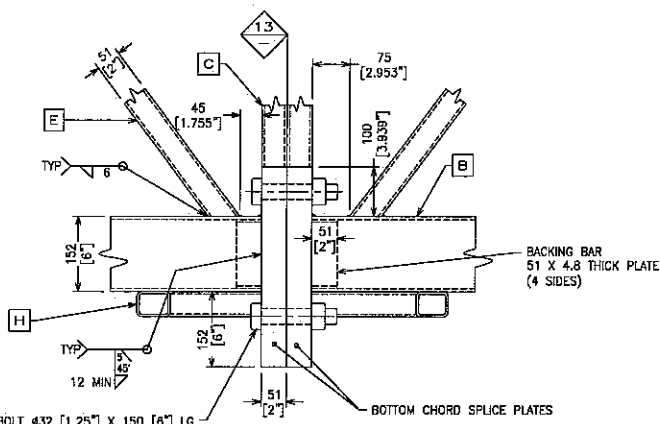
DRAWING TITLE:
MISCELLANEOUS DETAILS
HENRY KAUFMANN CAMPGROUNDS
PEDESTRIAN BRIDGE CONSTRUCTION
PEARL RIVER, NY



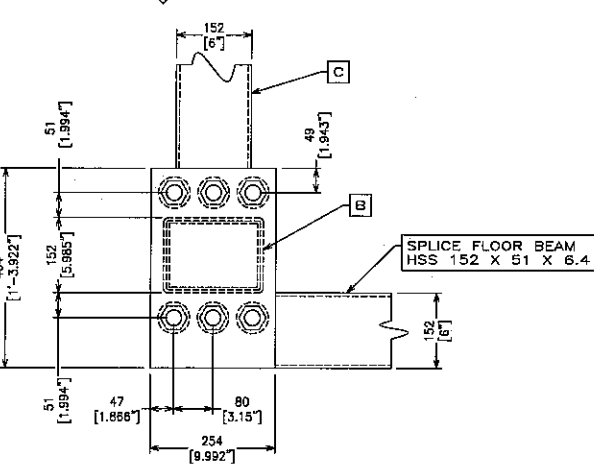
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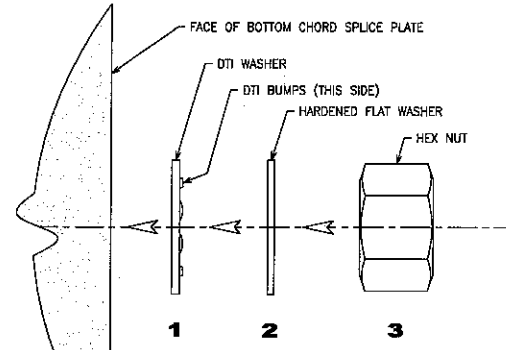
DETAIL 12



DETAIL 13



DETAIL 13



INSTALLATION SEQUENCE

FOR INSTALLATION INSTRUCTIONS SEE SUPPLIED DTI INFORMATION PACKAGE ALONG WITH BOLTING HARDWARE OR GO TO http://www.appliedbolting.com/fine_print.html and at http://www.appliedbolting.com/pdf/nst_orig.pdf
NOTE - AN OFFSET BOX END WRENCH WILL BE REQUIRED TO TENSION BOTTOM CHORD SPLICE BOLTS DUE TO CLEARANCE. CONTACT EAGLE BRIDGE LTD FOR SPECIFICATIONS AND A GENERAL EQUIPMENT LIST.

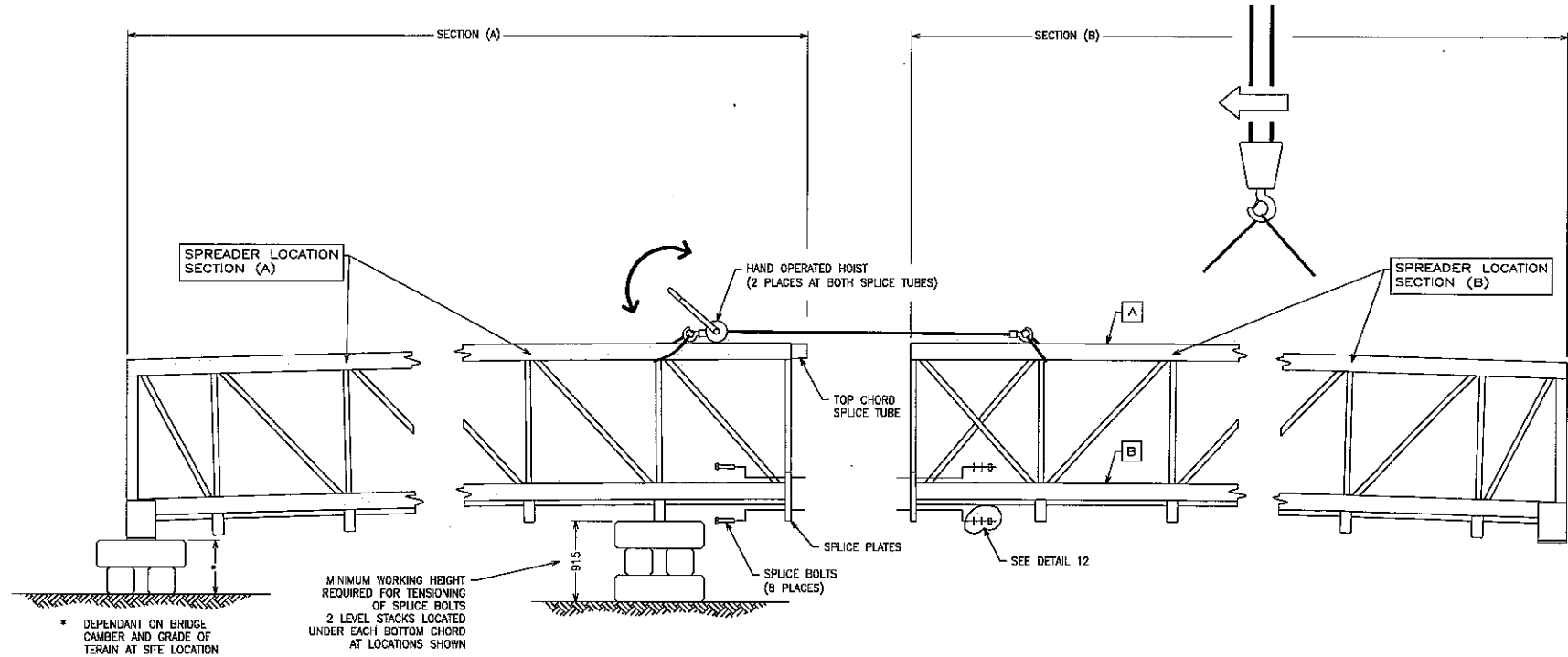
SPLICING & HOISTING PROCEDURE:
POSTION SPREADERS AS SHOWN IN DETAIL 16 AND SHEET 4 OF 4. SPREADERS MUST BE USED AT ALL TIMES WHEN HOISTING BRIDGE SECTIONS OR DAMAGE TO THE STRUCTURE WILL OCCUR.
CRANE TO FIRST HOIST BRIDGE SECTION (A) ONTO TEMPORARY BLOCKING ON EVEN LEVEL GROUND (AS SHOWN). BRIDGE SECTION (A) IS THEN LEVELLED TRANSVERSELY AT EACH END OF THE BRIDGE SECTION.
AS THE CRANE HOISTS BRIDGE SECTION (B) INTO POSITION, HAND OPERATED HOISTS ON EACH TRUSS TO BE USED TO EVENLY PULL SECTION (B) INTO STATIONARY SECTION (A) WITH ASSISTANCE FROM THE CRANE. IF SECTIONS ARE PROPERLY ALIGNED BRIDGE SECTIONS WILL COME TOGETHER WITH MINIMUM USE HOISTS.
ASSEMBLE LUBRICATED SPLICE BOLT HARDWARE AND DTI WASHERS (DETAIL 15) INTO SPLICE BLOCKS USING DRIFT ALIGNMENT PINS TO START BOLTS (IF REQUIRED).
TENSION BOTTOM CHORD SPLICE BOLTS USING THE DTI WASHERS AS PER INSTALLATION INSTRUCTION SHEETS PROVIDED WITH DRAWING.
ONCE BOTTOM CHORD SPLICE BOLTS ARE COMPLETE, TENSION LUBRICATED TOP CHORD SPLICE BOLTS.
WHEN ALL BOLT SPLICING IS COMPLETE, BRIDGE SECTION (B) MUST BE RAISED TO REMOVE TEMPORARY BLOCKING UNDER BRIDGE SECTION (A) AT SPLICE CONNECTION LOCATION BEFORE SECTION (B) IS LOWERED.
FAILURE TO REMOVE BLOCKING BEFORE LOWERING THE BRIDGE WILL RESULT IN DAMAGE TO THE BRIDGE STRUCTURE.
ONCE SECTION (B) IS LOWERED HOISTING SLINGS CAN BE REPOSITIONED TO FINAL HOISTING LOCATIONS AS SHOWN ON SHEET 4 OF 4 DETAIL.
ONCE RIGGING IS COMPLETE BRIDGE CAN NOW BE HOISTED AND SET INTO POSITION ON ABUTMENTS.
BOTTOM CHORD IS TO REMAIN IN TENSION.
TOP CHORD TO REMAIN IN COMPRESSION THROUGHOUT THE HOISTING PROCEDURE.
LIFTING BRIDGE SECTIONS IN ANY OTHER LOCATION ON THE TRUSS CAN RESULT IN DAMAGE.
INSTALLATION NOTES:
GENERAL CONTRACTOR IS TO FOLLOW DTI INSTALLATION INSTRUCTIONS ENCLOSED WITH BOLTS, NUTS AND WASHERS.
LUBRICATE ALL BOLTS PRIOR TO ASSEMBLY.
ERECT STRUCTURE AND TENSION HIGH TENSILE BOLTED SPLICE CONNECTIONS IN ACCORDANCE WITH CSA-S16.1.
NOTICE - UNLESS THE BRIDGE INSTALLATION IS SUPERVISED OR COMPLETED BY EAGLE BRIDGE LTD IT IS THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING THE BRIDGE STRUCTURE TO HAVE A PROFESSIONAL ENGINEER EXPERIENCED IN THIS TYPE OF CONSTRUCTION OR AN INDEPENDENT INSPECTION FIRM CERTIFIED TO CSA-W178 ON SITE TO OBSERVE THE TEMPORARY BLOCKING, SPLICING AND TENSIONING OF THE SPLICE BOLTS.
THE INSPECTOR SHALL SUBMIT TO EAGLE BRIDGE A FIELD INSPECTION REPORT WITHIN 15 DAYS OF THE INSTALLATION.
THE COST OF THIS SERVICE IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE ACTUAL BRIDGE INSTALLATION.
FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS WILL VOID BRIDGE WARRANTY.

DETAIL 15 DTI WASHER SEQUENCE

LENGTH OF BRIDGE	114'-0" (OVERALL LENGTH OF BRIDGE)
WIDTH OF BRIDGE	8'-0" (CLEAR INSIDE WIDTH BETWEEN CHORDS)
BRIDGE SERIAL NUMBER	E17-111583
BRIDGE WEIGHT	35,700 LBS.

MATERIAL LIST		
A	TOP CHORD	HSS 8 X 6 X 0.375
B	BOTTOM CHORD	HSS 6 X 6 X 0.250
C	VERTICAL	HSS 6 X 2 X 0.250
D	END VERTICAL	HSS 6 X 4 X 0.250
E	DIAGONAL	HSS 3 X 2 X 0.187
F	FLOOR BEAM	HSS 6 X 4 X 0.250
G	END FLOOR BEAM	HSS 6 X 4 X 0.250
H	WIND DIAGONAL	HSS 2 X 2 X 0.187
I	STRINGER	HSS 3 X 2 X 0.187
K	U/L DECK ANGLES	L 1.5 X 1.5 X 0.125
L	BRIDGE DECK	NOMINAL 2 X 10 PT SPF WOOD
N	BEARING PAD - FIXED	2 - 210 FABREEKA PAD 8 X 8 X 1" THK
O	BEARING PAD - SLIDING	2 - 225 FABREEKA PTFE B X 8 X 1" THK
P	ANCHOR BOLTS	8 - #1" HILTI HAS-E ANCHOR RODS WITH HIT-HY 200 ADHESIVE OR EQUIVALENT
Q	DECK FASTENER AT ANGLE	#0.250" X 2" LONG THREAD FORMING SCREW
R	BRIDGE BASE PLATE	12.134" X 11.15" X 0.750" THK PLATE
T	HORIZONTAL SAFETY RAILS	1.500 X 0.125" THK SEMI-CIRCULAR RAIL
U	DECK FASTENER AT STRINGER	#0.250" X 2" LONG THREAD FORMING SCREW
V	TOE PLATE	6" X 0.187" THK PLT
W	CENTER STRINGER	HSS 2 X 2 X 0.187
X	HANDRAIL	#1.7" GALVANIZED PIPE HANDRAIL

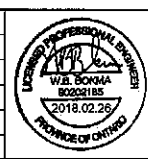
PROJECT No: 1583	SCALE: AS SHOWN	3 of 4
DRAWN BY: MGB	DATE: FEB 25-18	
CHECKED BY: WB		R2
DESIGNED BY: AW		



DETAIL 14 BOLT SPLICING OF BRIDGE SECTIONS A & B

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Structural analysis, design, and connections.

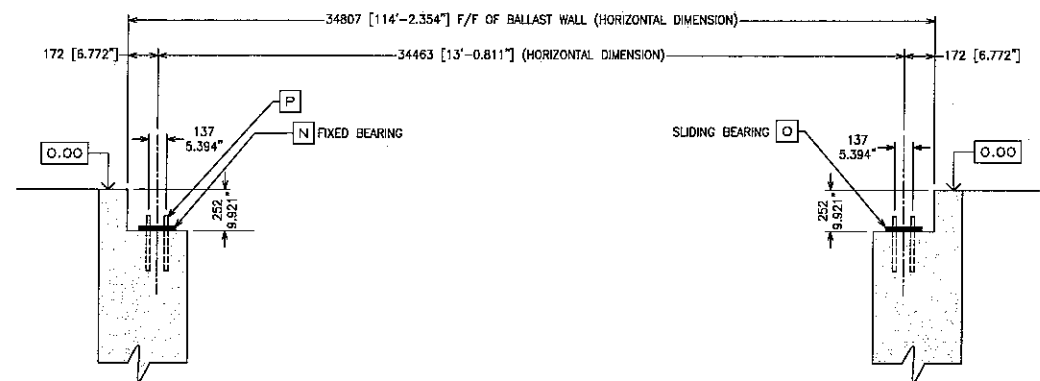


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SHEET #

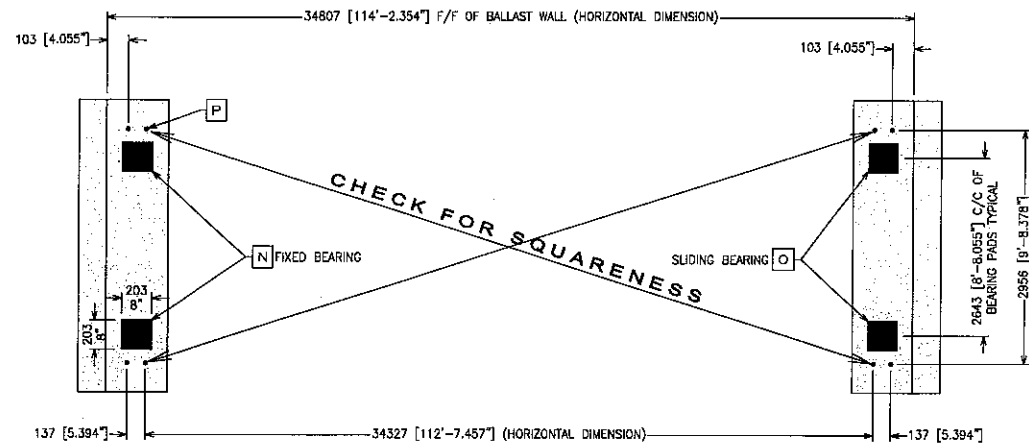
EAGLE BRIDGE Ltd.
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eaglebridge@bellnet.ca

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ACROW BRIDGE
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T 973-244-0080

DRAWING TITLE:
BOLT SPLICE DETAILS
HENRY KAUFMANN CAMPGROUNDS
PEDESTRIAN BRIDGE CONSTRUCTION
PEARL RIVER, NY



ELEVATION - ANCHOR BOLT LOCATIONS



PLAN - ANCHOR BOLT LOCATIONS

GENERAL NOTES:

- GENERAL CONTRACTOR RESPONSIBLE FOR:
 - SUPPLY AND INSTALLATION OF BRIDGE ANCHORS & ABUTMENTS
 - OFF-LOADING OF DELIVERY VEHICLE & HOISTING OF BRIDGE ONTO ABUTMENTS
 - NOTIFYING EAGLE BRIDGE WITH RESPECT TO ANY DISCREPANCIES WITHIN THESE SHOP DRAWINGS
 - VERIFY AS BUILT ABUTMENT DIMENSIONS & ELEVATIONS IN THE FIELD WITH RESPECT TO THESE SHOP DRAWINGS

BRIDGE ANCHORING NOTES:

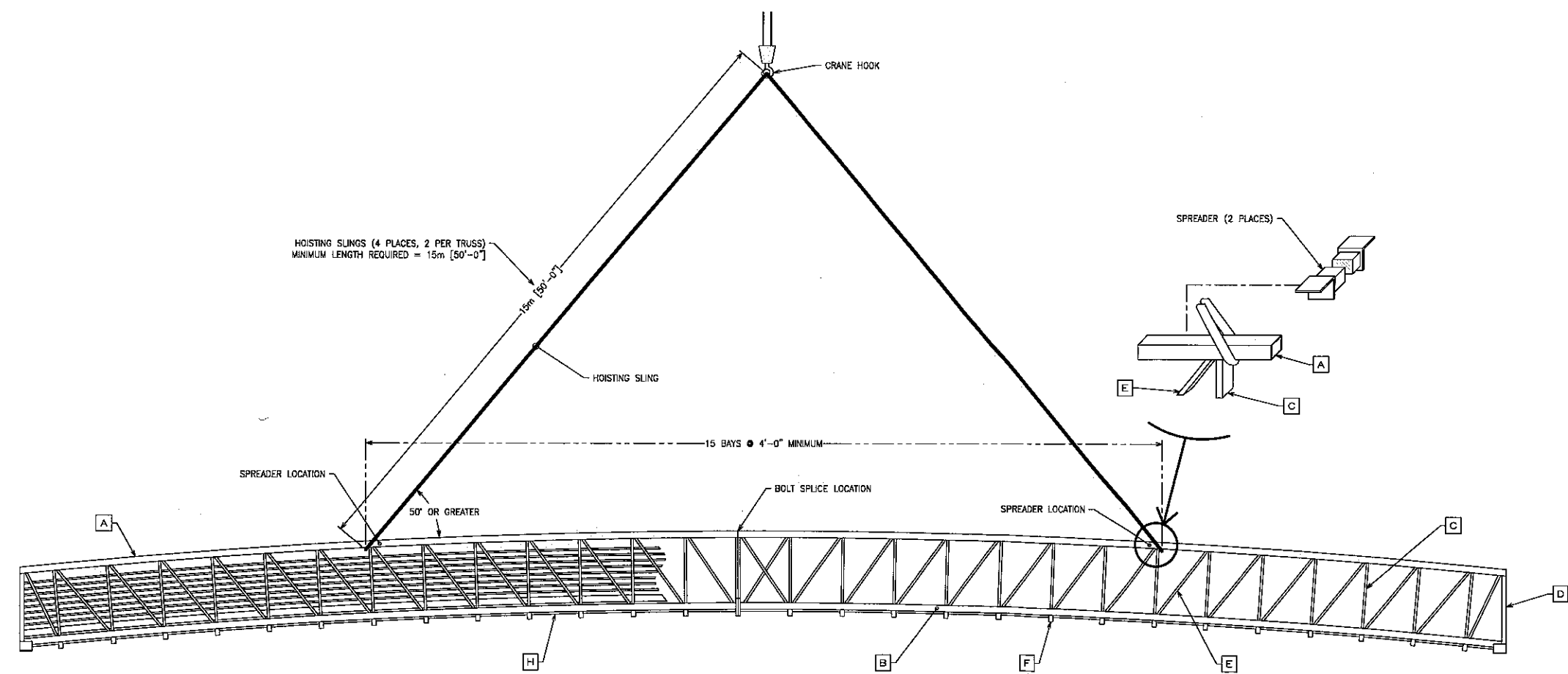
- Ø25mm [1"] ANCHOR BOLTS 305mm [12"] MINIMUM EMBEDMENT INTO CONCRETE WITH 120mm [4.75"] PROJECTION
- HAS-E THREADED RODS C/W HIT-HY 200 OR APPROVED EQUAL
- ANCHORS TO BE DRILLED IN PLACE POST INSTALLATION
- FIXED BEARINGS: ONE NUT & ONE FLAT WASHER PER BOLT
- ANCHOR NUTS TO BE TIGHTENED SO THAT BRIDGE RESISTS ANY MOVEMENT
- SLIDING BEARINGS: TWO NUTS & ONE FLAT WASHER PER BOLT. ANCHOR NUTS TO BE TIGHTENED TOGETHER LEAVING A 3mm [0.125"] SPACE FROM THE UNDERSIDE OF THE BOTTOM NUT TO THE TOP SURFACE OF THE FLAT WASHER THEREFORE ALLOWING LONGITUDINAL BRIDGE MOVEMENT

BEARING NOTES:

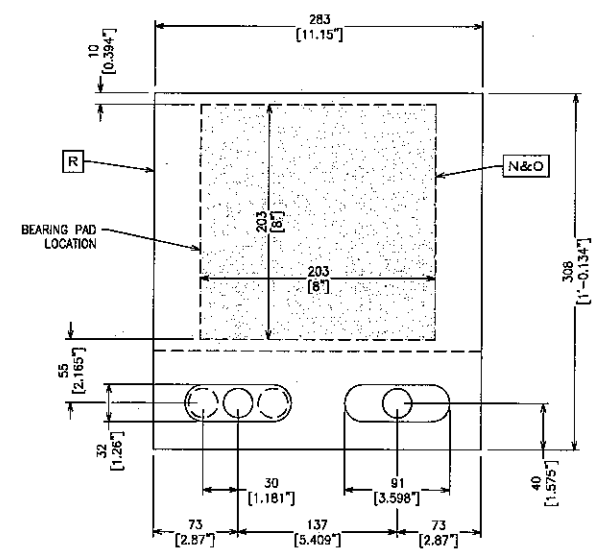
- SLIDING BASE PLATES ALLOWS FOR EXPANSION & CONTRACTION
- ALL BEARING PADS TO BE PLACED DIRECTLY UNDER BRIDGE BASE PLATES AS SHOWN IN SHOP DRAWINGS
- SLIDING BEARING PADS TO BE POSITIONED WITH WHITE TEFLON FACING UNDERSIDE OF BRIDGE BASE PLATES TO MAKE CONTACT WITH STAINLESS STEEL SURFACE
- FIXED BEARING PADS LESS TEFLON TO BE PLACED UNDER BASE PLATES WITHOUT STAINLESS STEEL SURFACE
- SLIDING AND FIXED BEARING PADS TO BE PLACED INTO POSITION JUST PRIOR TO BRIDGE BEING LOWERED ONTO ABUTMENTS
- BRIDGE WILL ARRIVE ON SITE WITH STEEL PROTECTOR PLATES COVERING STAINLESS STEEL SURFACES UNDER SLIDING BASE PLATES ONLY
- THESE PROTECTOR PLATES MUST BE REMOVED PRIOR TO SETTING BRIDGE ONTO SLIDING BEARING PADS
- BEARING PADS SUPPLIED BY BRIDGE MANUFACTURER AT TIME OF BRIDGE DELIVERY

NOTICE >>>

PLAN - ANCHOR BOLT LOCATIONS



HOISTING OF COMPLETED BRIDGE



BASE PLATE LAYOUT

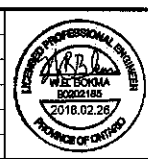
PROJECT No: 1583	SCALE: AS SHOWN	4 of 4
DRAWN BY: MGB	DATE: FEB 25-18	
CHECKED BY: WB		R2
DESIGNED BY: AW		

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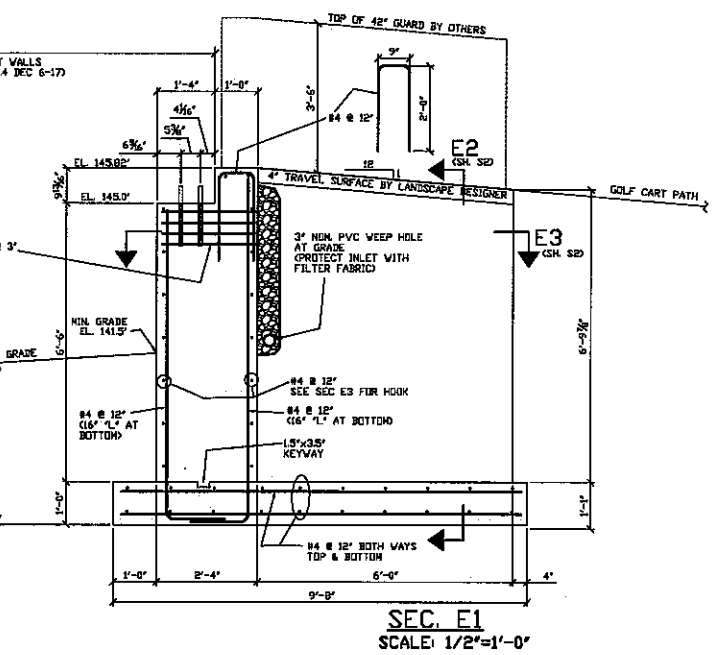
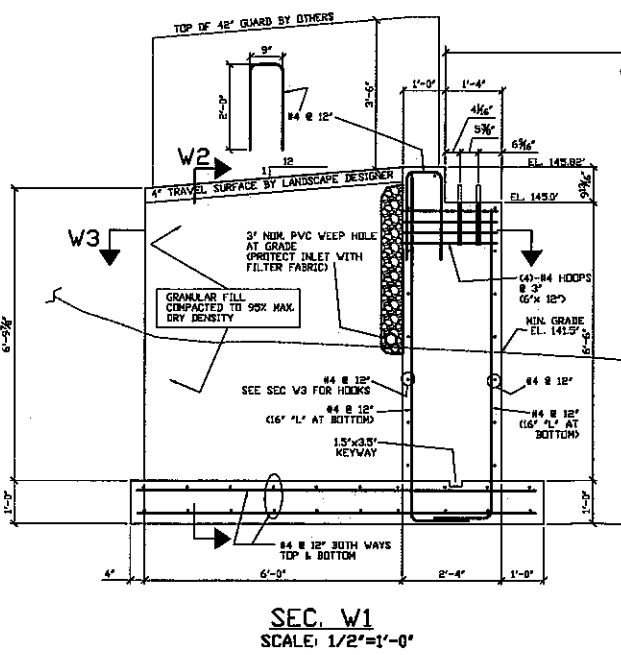
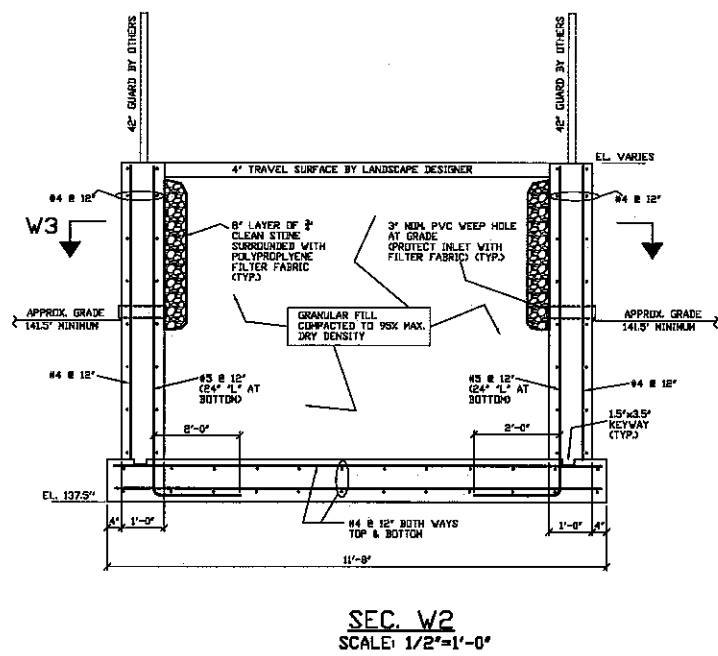
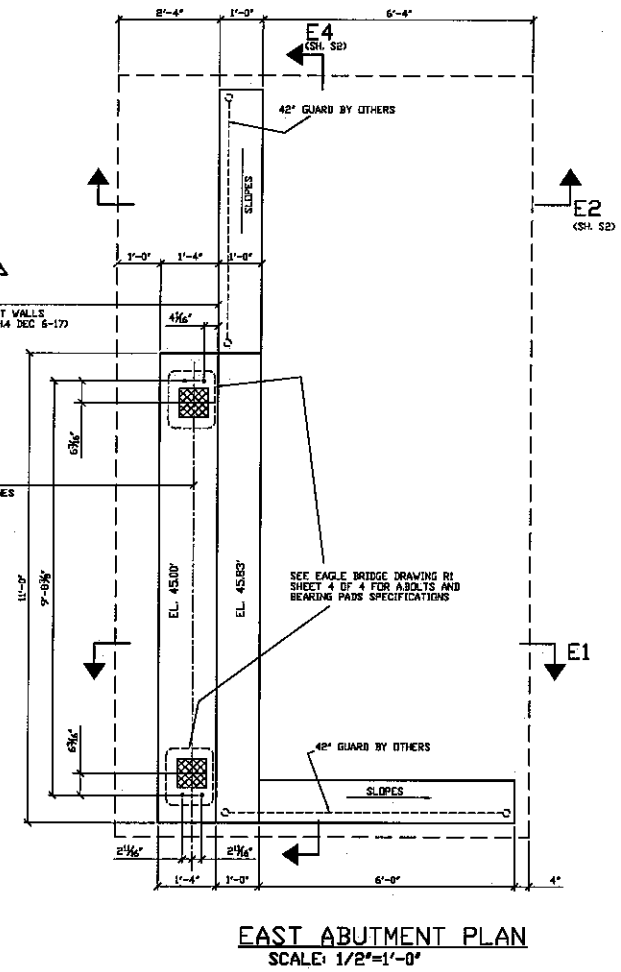
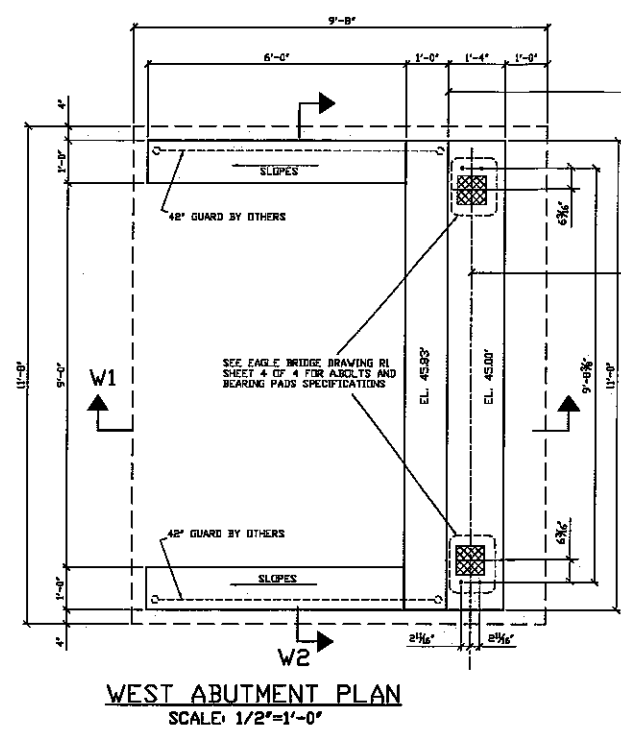
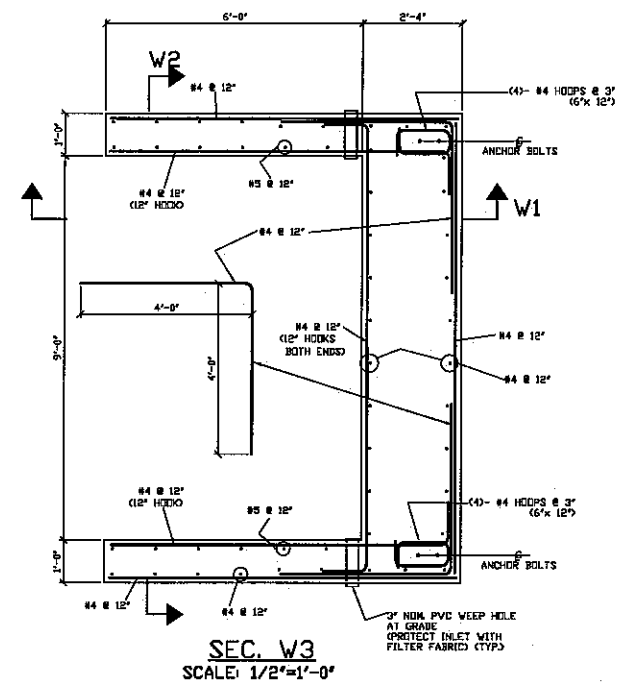


DETAIL #
 SHEET #

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 eaglebridge@bellnet.ca


CLIENT:
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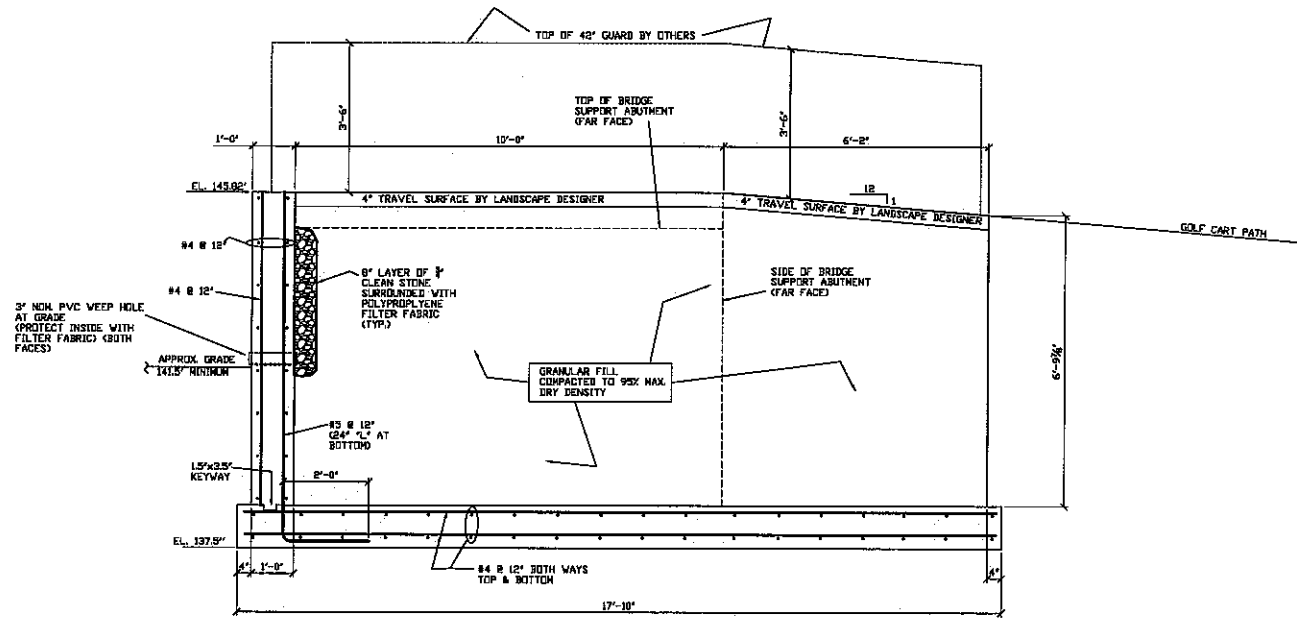
DRAWING TITLE:
 ABUTMENTS AND HOISTING DETAILS
 HENRY KAUFMANN CAMPGROUNDS
 PEDESTRIAN BRIDGE CONSTRUCTION
 PEARL RIVER, NY



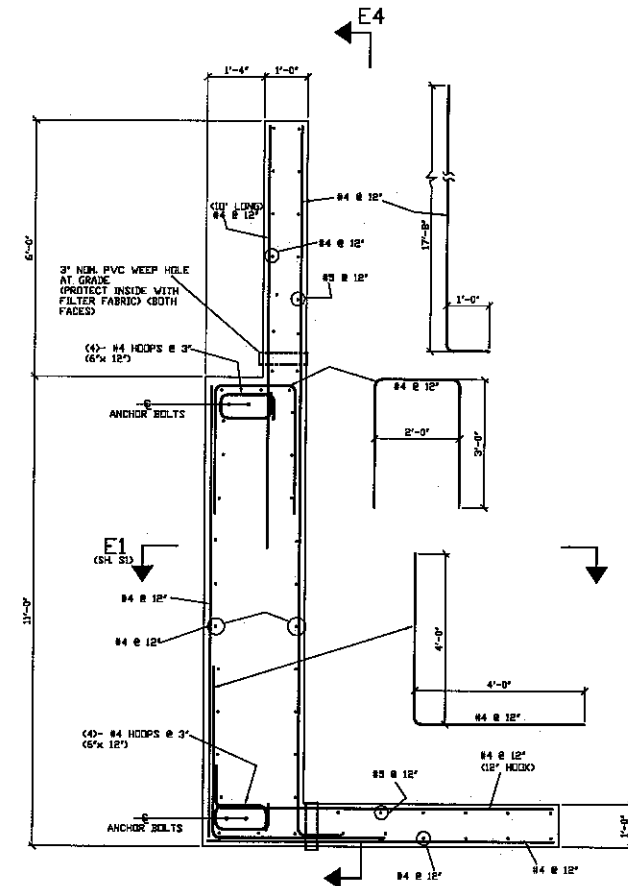
- CONCRETE FOUNDATIONS NOTES**
1. ALL CONCRETE WORK SHALL COMPLY WITH A.C.I. CODE (ACI 318)
 2. ALL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH A MINIMUM STRENGTH OF 4000 PSI AT 28 DAYS.
 3. ALL REINFORCING SHALL CONFORM TO ASTM 615 GRADE 60.
 4. MIXES SHALL HAVE MAXIMUM 3" SLUMP ON SITE PRIOR TO ADDITION OF ANY WATER REDUCTION ADJUTIVES. ALL CONCRETE SHALL HAVE 3 TO 2 ENTRAINED AIR.
 5. ALL FOOTINGS SHALL BE CARRIED A MINIMUM OF 4'-0" BELOW FINISHED GRADE AND SHALL BE ON MATERIAL OF MINIMUM ALLOWABLE BEARING CAPACITY OF 4.0 CSF. FOOTING SUBGRADE MATERIAL TO BE INSPECTED AND APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF ANY CONCRETE.
 6. ALL EXCAVATION AND BACKFILL FOR FOOTINGS AND SLABS SHALL BE PERFORMED IN ACCORDANCE DIRECTION BY THE OWNER'S GEOTECHNICAL.

WORK THIS DRAWING WITH THE PEDESTRIAN BRIDGE LAYOUT PLAN BY LEONARD JACKSON ASSOCIATES AND THE LAYOUT PLANS AND DETAILS BY EAGLE BRIDGE LTD.

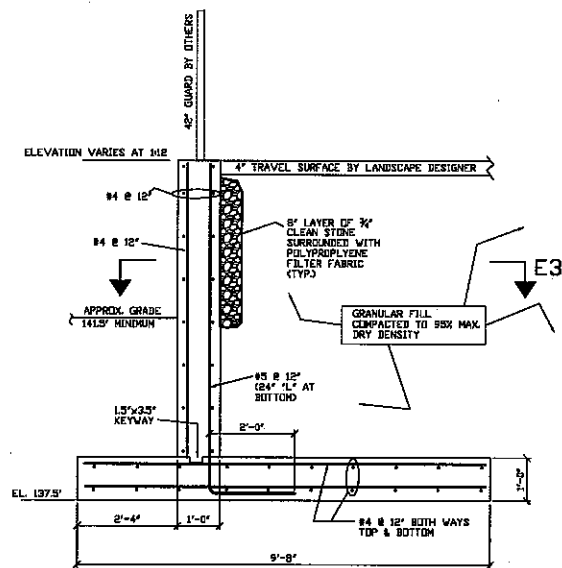
REV. 1	2/16/18	FOR PERMIT
		
HENRY KAUFMAN CAMPGROUNDS PEDESTRIAN BRIDGE CONSTRUCTION STATEN ISLAND, NY		
ABUTMENT PLANS + SECTIONS		
JOSEPH BENIGNO ENGINEERING ASSOCIATES INC.		
55 TURTLEBACK ROAD, CALIFON, N.J. 07830 (908)832-6789 JBenigno@JBSstructures.com		
DATE: FEBRUARY 16, 2018 Sh. S1		




SEC. E4
SCALE: 1/2"=1'-0"

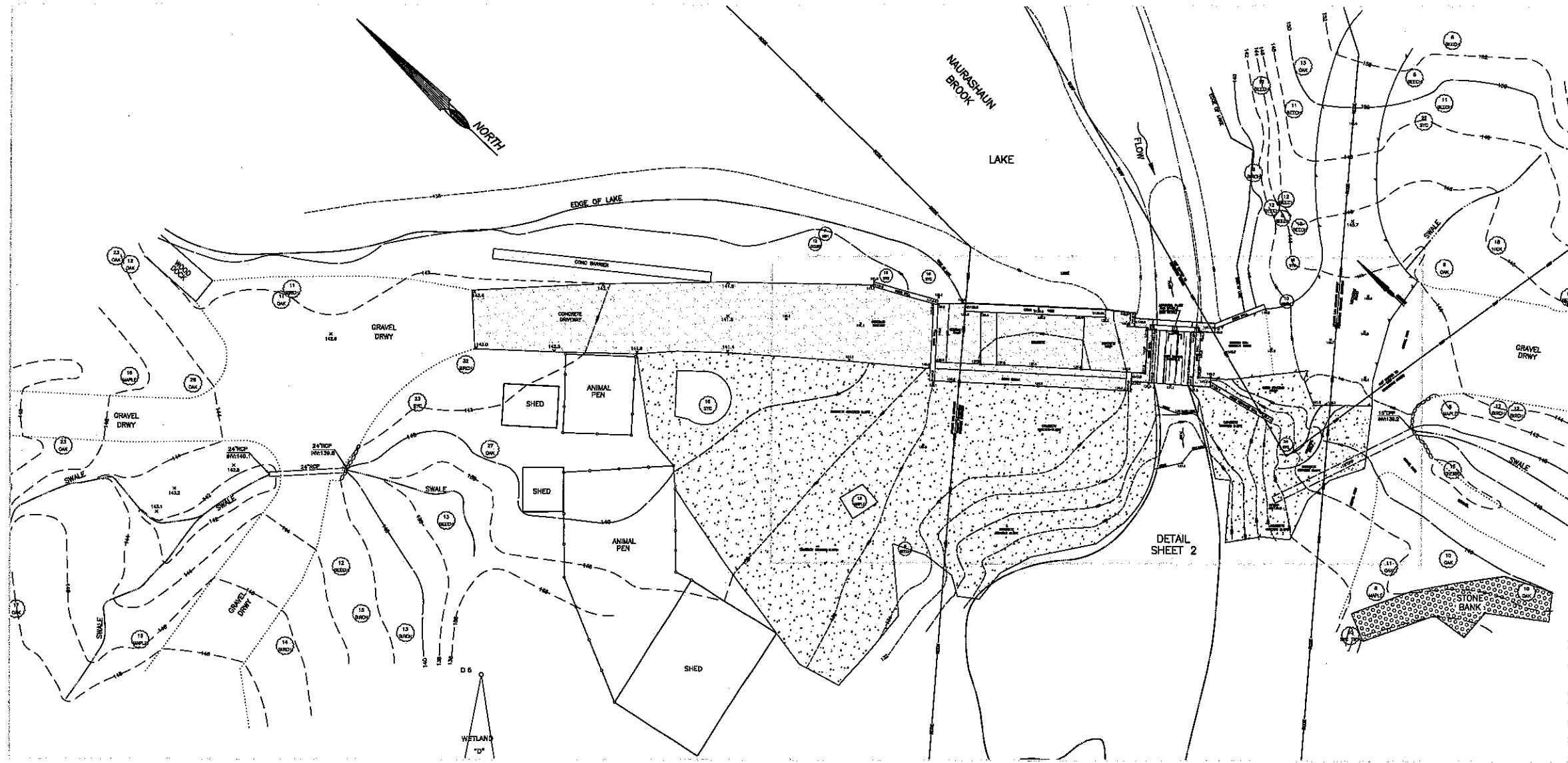


SEC. E3
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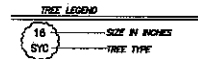
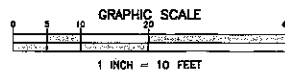


SEC. E2
SCALE: 1/2"=1'-0"

REV. 1	2/16/18	FOR PERMIT
		
HENRY KAUFMAN CAMPGROUNDS PEDESTRIAN BRIDGE CONSTRUCTION STATEN ISLAND, NY		
EAST ABUTMENT SECTIONS JOSEPH BENIGNO ENGINEERING ASSOCIATES INC. 55 TURTLEBACK ROAD, CALIFON, N.J. 07830 (908)832-6789 JBenigno@JJBStructures.com		
DATE: FEBRUARY 16, 2018 Sh. S2		



OVERALL TOPO



LEGEND

- CB □ RI DITCH BASIN/FIELD INLET
- DRAIN LINE
- FEDERAL WETLAND DELINEATION
- EXISTING CONTOUR
- X 142.3 SPOT ELEVATION
- CPP CORRUGATED PLASTIC PIPE
- BUFFY BUFFER LINE
- ROCKLAND COUNTY DRAINAGE EASEMENT

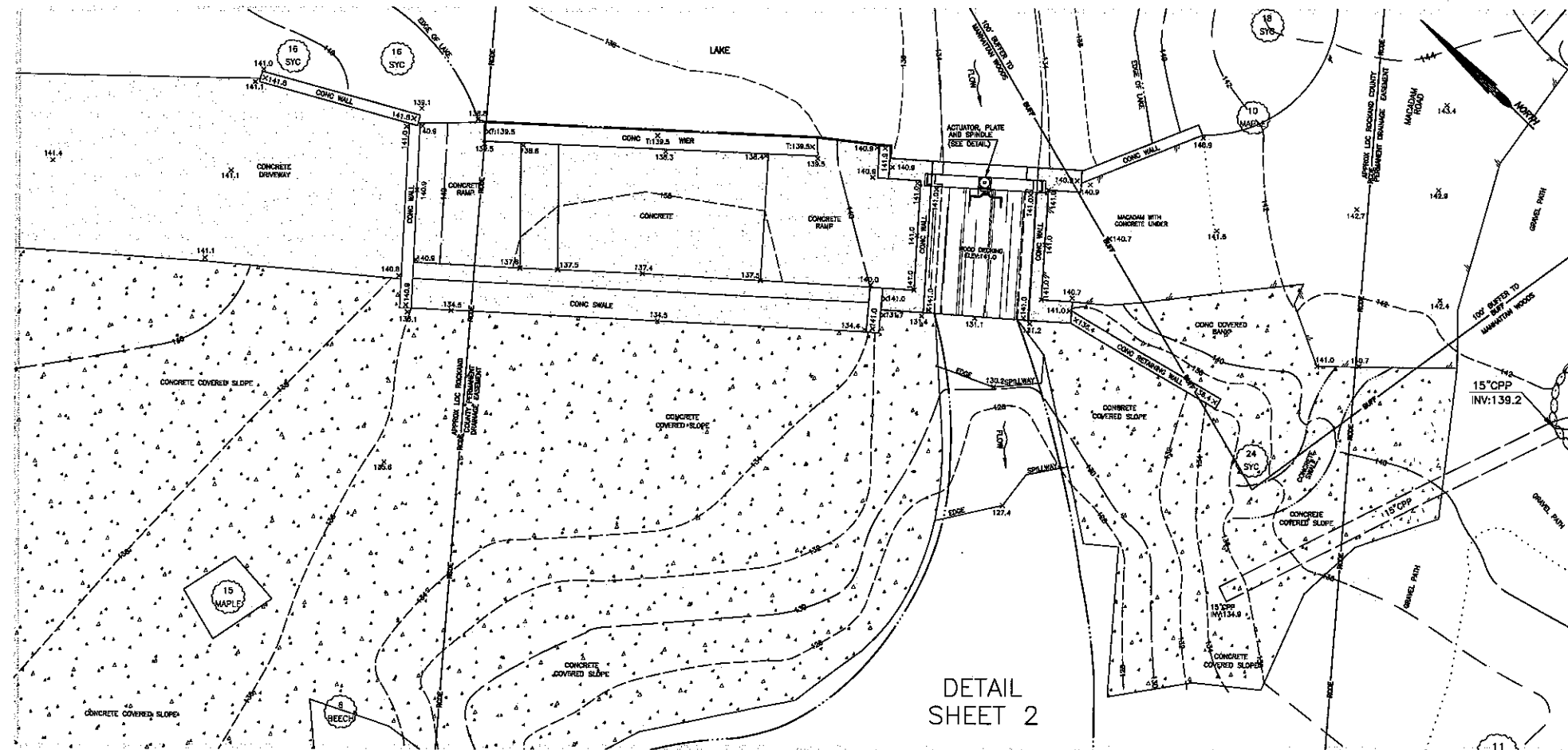
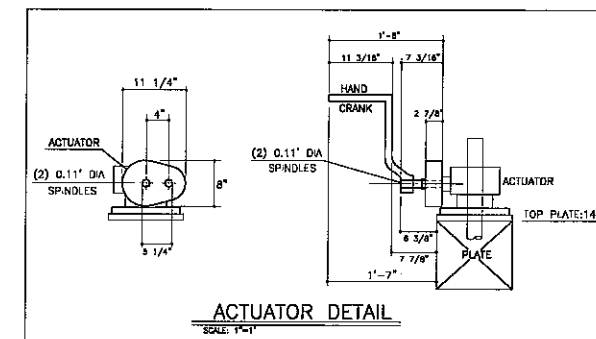
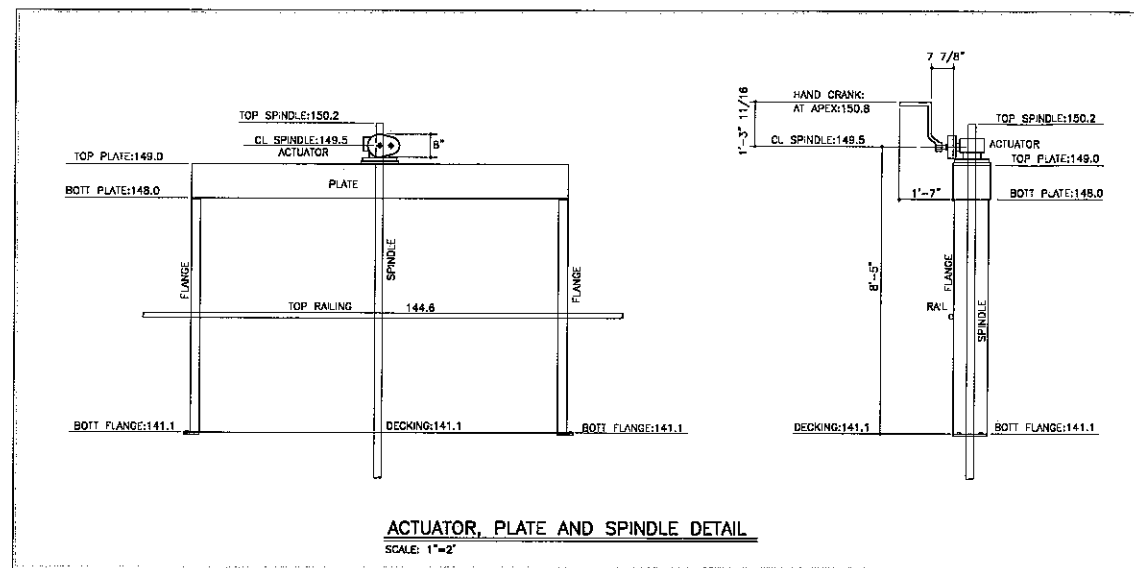
• TOPOGRAPHIC MAP AT DAM •
HENRY KAUFMANN CAMPGROUNDS
TOWN OF ORANGETOWN



DATE	3/20/18	ACT/ATOR	
REVISIONS			

JAY A. GREENWELL, PLS, LLC
SURVEYING - LAND PLANNING
85 LAFAYETTE AVENUE, SUFFERN, NEW YORK, 10901
PHONE 845-357-0830 FAX 845-357-0755

JOB NO. 2443
DATE 04/19/18
FILED 2443 DAM TOPO
SCALE 1"=10'
SHEET 1



LEGEND

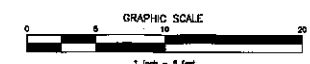
□ CB	□ FT	CATCH BASIN/FIELD INLET
—	—	DRAIN LINE
—	—	FEDERAL WETLAND DELINEATION
—	—	EXISTING CONTOUR
X 148.5		SPOT ELEVATION
—	—	CORRUGATED PLASTIC PIPE
—	—	BUFFER LINE
—	—	ROCKLAND COUNTY GRASSWATER CASEMENT

TREE LEGEND

16	SIZE IN INCHES
SYC	TREE TYPE

NOTES:

1. ANY WORK ON THIS DAM MAY REQUIRE APPROVALS/REVIEWS BY THE TOWN OF ORANGETOWN, THE NY STATE DEC, THE ACOE, AND OR THE ROCKLAND COUNTY DRAINAGE AGENCY.
2. DATUM: NAVD 83
3. FEMA FLOODPLAIN AS PER FIRM MAP #36087C01789; EFF. DATE 3/3/14



• TOPOGRAPHIC MAP AT DAM •
HENRY KAUFMANN CAMPGROUNDS
TOWN OF ORANGETOWN



DATE	3/20/18	ACTUATOR	REVISIONS
DATE			
DATE			

JAY A. GREENWELL, PLS, LLC
SURVEYING - LAND PLANNING
85 LAFAYETTE AVENUE, SUFFERN, NEW YORK, 10901
PHONE 845-357-0830 FAX 845-357-0758

JOB NO. 2443
DWD: 04/13/18
FILED 2443 DAM TOPO
SCALE: 1"=2'
SHEET 2