

SEE SHEET 2 FOR INDEX OF SHEETS

STATE OF VERMONT AGENCY OF TRANSPORTATION



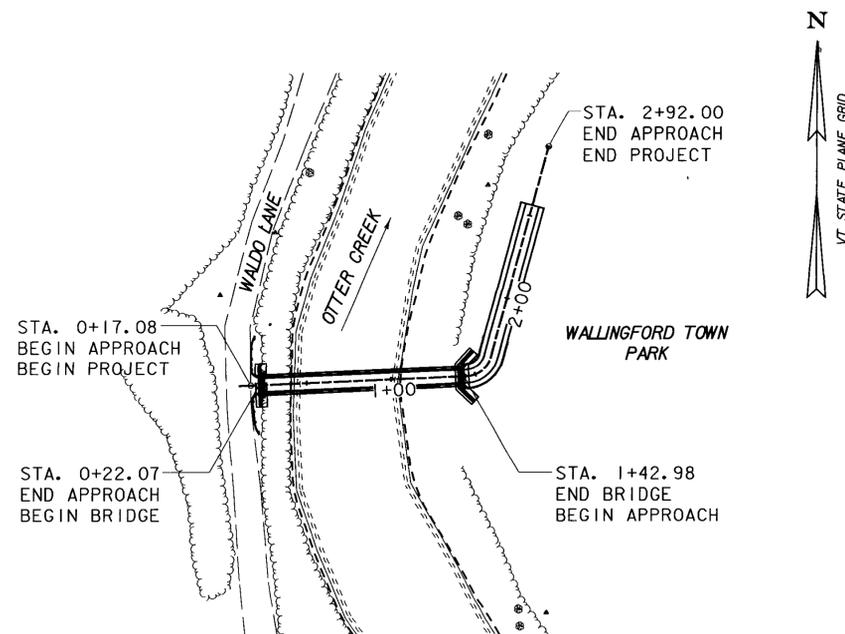
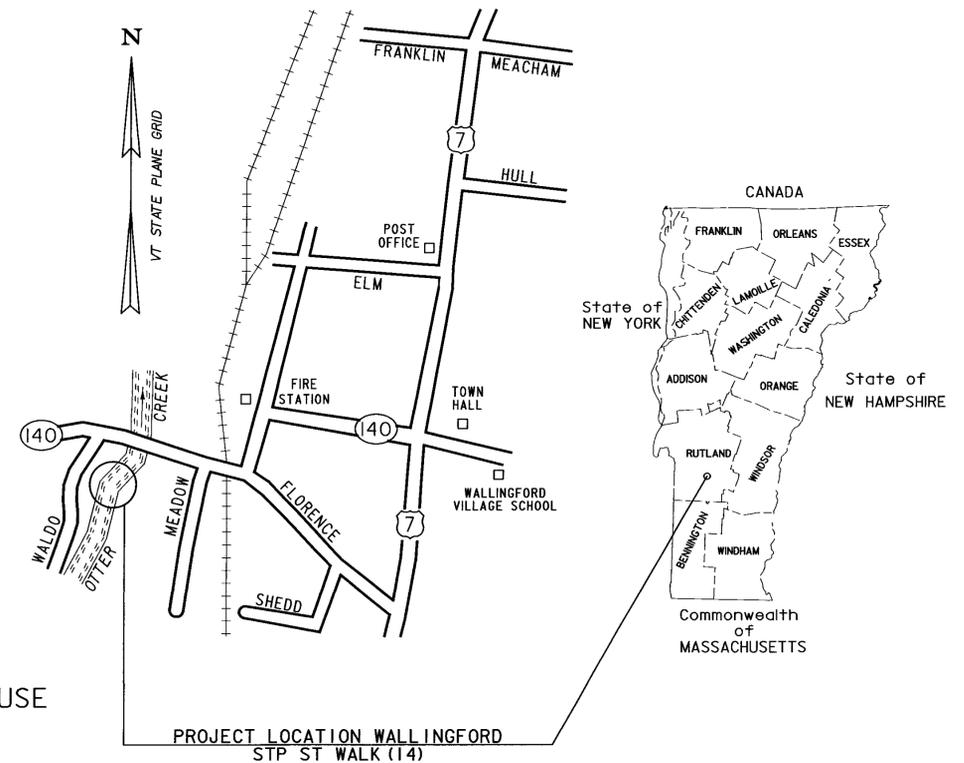
PROPOSED IMPROVEMENT BRIDGE PROJECT TOWN OF WALLINGFORD COUNTY OF RUTLAND

ROUTE NO : PEDESTRIAN BRIDGE BRIDGE NO : ADAPTIVE REUSE

PROJECT LOCATION: LOCATED IN THE COUNTY OF RUTLAND, TOWN OF WALLINGFORD,
PEDESTRIAN BRIDGE OVER THE OTTER CREEK, APPROXIMATELY 800+/- FEET
SOUTH OF VT. ROUTE 140 BETWEEN WALDO LANE AND THE WALLINGFORD TOWN PARK.

PROJECT DESCRIPTION: REHABILITATE AND ASSEMBLE HISTORIC TRUSS OVER OTTER CREEK AT THE WALLINGFORD TOWN PARK.

LENGTH OF STRUCTURE : 120.91 FEET
LENGTH OF APPROACH: 154.01 FEET
LENGTH OF PROJECT: 274.92 FEET



SCALE 1" = 50'
50 0 50

RECORD PLANS	
CONTRACTOR	RENAUD BROTHERS, INC - VERNON, VT
RESIDENT ENGINEER	ERIC FOSTER
CONSTRUCTION BEGAN	APRIL 10, 2009
CONSTRUCTION COMPLETE	NOVEMBER 18, 2009
RECORD PLANS BY	ERIC FOSTER & NICK GARBACIK
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN	
BY	<i>Eric Foster</i> RESIDENT ENGINEER
DATE	10 25 2010
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives (OnBase)	

CONVENTIONAL SYMBOLS	
COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	

PLANS PREPARED BY

Richard A. Brouse

CHA

DATING Copyright © 2009

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (92)

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED	<i>Richard A. Brouse</i> DATE 1-13-09
PROJECT MANAGER : SUSAN SCRIBNER	
PROJECT NAME : WALLINGFORD	
PROJECT NUMBER : STP ST WALK (14)	
SHEET 1 OF 26 SHEETS	

PRELIMINARY INFORMATION SHEET

FINAL HYDRAULIC REPORT

LIST OF STANDARDS

1.	TITLE SHEET
2.	PRELIMINARY INFORMATION SHEET
3.	QUANTITY SHEET 1
4.	QUANTITY SHEET 2
5.	PROJECT TYPICAL SECTIONS
6.	ITEM DETAIL SHEET
7.	EPSC NARRATIVE
8.	EPSC DETAIL SHEET 1
9.	EPSC DETAIL SHEET 2
10.	EXISTING CONDITIONS PLAN
11.	EPSC PLAN 1
12.	EPSC PLAN 2
13.	PROJECT NOTES
14.	BORING INFORMATION
15.	BORING LOGS
16.	PLAN AND ELEVATION
17.	DECK PLAN AND DETAILS
18.	TRUSS REHABILITATION
19.	FRAMING PLAN AND DETAILS
20.	ABUTMENT 1 PLAN AND ELEVATION
21.	ABUTMENT 2 PLAN AND ELEVATION
22.	ABUTMENT PILE LAYOUT & FOOTING REINFORCEMENT PLAN
23.	ABUTMENT 1 & 2 REINFORCEMENT SECTIONS
24.	BRIDGE RAILING DETAILS
25.	RAIL LAYOUT PLAN AND DETAILS
26.	REINFORCING STEEL SCHEDULE
1.	INDEX OF SHEETS
2.	PRELIMINARY INFORMATION SHEET
3.	QUANTITY SHEET 1
4.	QUANTITY SHEET 2
5.	PROJECT TYPICAL SECTIONS
6.	ITEM DETAIL SHEET
7.	EPSC NARRATIVE
8.	EPSC DETAIL SHEET 1
9.	EPSC DETAIL SHEET 2
10.	EXISTING CONDITIONS PLAN
11.	EPSC PLAN 1
12.	EPSC PLAN 2
13.	PROJECT NOTES
14.	BORING INFORMATION
15.	BORING LOGS
16.	PLAN AND ELEVATION
17.	DECK PLAN AND DETAILS
18.	TRUSS REHABILITATION
19.	FRAMING PLAN AND DETAILS
20.	ABUTMENT 1 PLAN AND ELEVATION
21.	ABUTMENT 2 PLAN AND ELEVATION
22.	ABUTMENT PILE LAYOUT & FOOTING REINFORCEMENT PLAN
23.	ABUTMENT 1 & 2 REINFORCEMENT SECTIONS
24.	BRIDGE RAILING DETAILS
25.	RAIL LAYOUT PLAN AND DETAILS
26.	REINFORCING STEEL SCHEDULE
1.	TITLE SHEET
2.	PRELIMINARY INFORMATION SHEET
3.	QUANTITY SHEET 1
4.	QUANTITY SHEET 2
5.	PROJECT TYPICAL SECTIONS
6.	ITEM DETAIL SHEET
7.	EPSC NARRATIVE
8.	EPSC DETAIL SHEET 1
9.	EPSC DETAIL SHEET 2
10.	EXISTING CONDITIONS PLAN
11.	EPSC PLAN 1
12.	EPSC PLAN 2
13.	PROJECT NOTES
14.	BORING INFORMATION
15.	BORING LOGS
16.	PLAN AND ELEVATION
17.	DECK PLAN AND DETAILS
18.	TRUSS REHABILITATION
19.	FRAMING PLAN AND DETAILS
20.	ABUTMENT 1 PLAN AND ELEVATION
21.	ABUTMENT 2 PLAN AND ELEVATION
22.	ABUTMENT PILE LAYOUT & FOOTING REINFORCEMENT PLAN
23.	ABUTMENT 1 & 2 REINFORCEMENT SECTIONS
24.	BRIDGE RAILING DETAILS
25.	RAIL LAYOUT PLAN AND DETAILS
26.	REINFORCING STEEL SCHEDULE

HYDROLOGIC DATA
Date: _____

DRAINAGE AREA: 94.9 sq-mi

CHARACTER OF TERRAIN: Generally forested, ranging from mountainous to valley floor.

STREAM CHARACTERISTICS: Sinuous plattom, perennial subcritical flow.

NATURE OF STREAMBED: Gravel bed with sand and cobbles present.

PEAK FLOW DATA

Q 2.33 =	2600 cfs
Q 10 =	5260 cfs
Q 25 =	N/A
Q 50 =	7980 cfs
Q 100 =	9210 cfs
Q 500 =	12400 cfs

DATE OF FLOOD OF RECORD: 1927

ESTIMATED DISCHARGE: Unknown

WATER SURFACE ELEV.: Unknown

NATURAL STREAM VELOCITY: 2-3 ft/sec

ICE CONDITIONS: Moderate

DEBRIS: Moderate

DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? No

IS ORDINARY RISE RAPID? No

IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? Yes

IF YES, DESCRIBE: Minor backwater from Vermont Route 140 bridge approximately 800 ft downstream.

WATERSHED STORAGE: Minimal

HEADWATERS: IMMEDIATELY ABOVE SITE: X

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE: There is presently no bridge at this site.

YEAR BUILT: _____

CLEAR SPAN(NORMAL TO STREAM): _____

VERTICAL CLEARANCE ABOVE STREAMBED: _____

WATERWAY OF FULL OPENING: _____

DISPOSITION OF STRUCTURE: _____

TYPE OF MATERIAL UNDER SUBSTRUCTURE: _____

WATER SURFACE ELEVATIONS AT: _____

VELOCITY = 5.4 fps

Q 2.33 =	566.7 ft
Q 10 =	369.3 ft
Q 25 =	N/A
Q 50 =	6.7 fps
Q 100 =	6.9 fps
Q 500 =	7.0 fps

LONG TERM STREAMBED CHANGES: _____

IS THE ROADWAY OVERTOPPED BELOW Q100: _____

RELIEF ELEVATION: _____

DISCHARGE OVER ROAD @Q100: _____

UPSTREAM STRUCTURE

TOWN: Wallingford

HIGHWAY #: US Route 7

STRUCTURE #: 79

DISTANCE: 3700 ft

YEAR BUILT: 1996

STRUCTURE TYPE: 2 span continuous welded plate girder

YEAR BUILT: 1996

STRUCTURE TYPE: Steel Truss

DOWNSTREAM STRUCTURE

TOWN: Wallingford

HIGHWAY #: Vermont Route 140

STRUCTURE #: 84

DISTANCE: 800 ft

YEAR BUILT: 22

STRUCTURE TYPE: Unknown

TRUCK

LOAD FACTOR LOAD RATING (TNS)

H	HS	3S2	6 AXLE	3A STR.	4A STR.	5A SEM
41						

LOADING LEVELS

INVENTORY	23
OPERATING	41

COMMENTS: _____

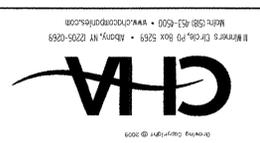
TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2027	N/A	N/A	N/A	N/A	N/A
2027	N/A	N/A	N/A	N/A	N/A

40 year ESAL for flexible pavement from N/A to N/A : N/A

20 year ESAL for flexible pavement from N/A to N/A : N/A

Design Speed : N/A mph



PROPOSED STRUCTURE

STRUCTURE TYPE: Warren Pony Truss - Adaptive Reuse of Historic Bridge

CLEAR SPAN(NORMAL TO STREAM): 117.0 ft

VERTICAL CLEARANCE ABOVE STREAMBED: 16.2 ft

WATERWAY OF FULL OPENING: 1240 sq-ft

WATER SURFACE ELEVATIONS AT:

Q 2.33 =	567.0 ft
Q 10 =	569.4 ft
Q 25 =	N/A
Q 50 =	6.7 fps
Q 100 =	6.9 fps
Q 500 =	7.0 fps

IS THE ROADWAY OVERTOPPED BELOW Q100: No

RELIEF ELEVATION: _____

DISCHARGE OVER ROAD @Q100: _____

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: 573.78 ft

VERTICAL CLEARANCE: Q50 = 1.8 ft, Q100 = 1.1 ft

SCOUR: 1.0 ft of contraction scour during Q10. Larger flood events exceed main channel banks and bypass the bridge in the right overbank

REQUIRED CHANNEL PROTECTION: Stone Fill Type III

PERMIT INFORMATION

AVERAGE DAILY FLOW: 162 cfs

DEPTH OR ELEVATION: _____

ORDINARY LOW WATER: Elev. 562.5 ft

ORDINARY HIGH WATER: Elev. 564.5 ft

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: No temporary bridge required.

CLEAR SPAN (NORMAL TO STREAM): _____

VERTICAL CLEARANCE ABOVE STREAMBED: _____

WATERWAY AREA OF FULL OPENING: _____

ADDITIONAL INFORMATION

All elevations are referenced to NAVD83.

Flow overtops main channel banks in the right approach between the 10 and 50-year flood events.

DESIGN CRITERIA

1. DESIGN LIVE LOAD ASHTO Pedestrian LL (trusses), H-10 (floorbeams & stringers) 117'-0"

2. DESIGN SPAN N/A

3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL N/A

4. ALLOWABLE LOAD FOR PILING 54 kips

5. STRUCTURAL STEEL ASHTO M270/M270 GRADE 50 Painted

6. REINFORCING STEEL GRADE 60

7. CONCRETE HIGH PERFORMANCE CLASS A fc: 3,500psi (substructures, pipe piling)

8. DESIGN SOIL UNIT WEIGHT 140 pcf and metal hand rail foundations)

9. DESIGN LOAD FOR SPREAD FOOTINGS ON SOIL N/A

TRAFFIC MAINTENANCE

1. IS TRAFFIC TO BE MAINTAINED? Yes, on Waldo Lane

2. TRAFFIC CONTROL SIGNALS REQUIRED? No

3. ARE SIDEWALKS REQUIRED? No

IF SO, ON WHAT SIDE? N/A

PROJECT NAME: WALLINGFORD STP ST WALK(14)

PROJECT NUMBER: _____

FILE NAME: 202F136PRELIM.XLS

PROJECT LEADER: S. SCRIBNER

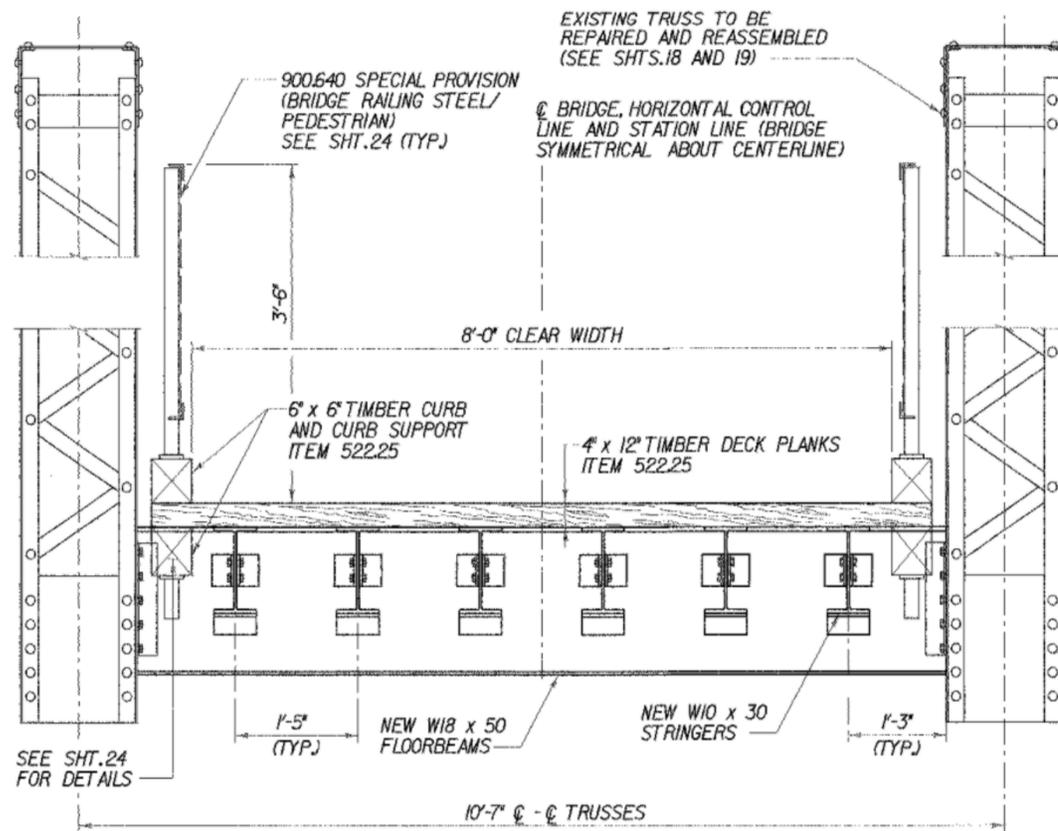
DRAWN BY: D. DAMATO

CHECKED BY: P. HALSTEAD

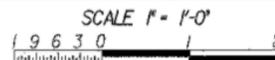
PLOT DATE: 08/07/2008

SHEET 2 OF 26

PRELIMINARY INFORMATION SHEET

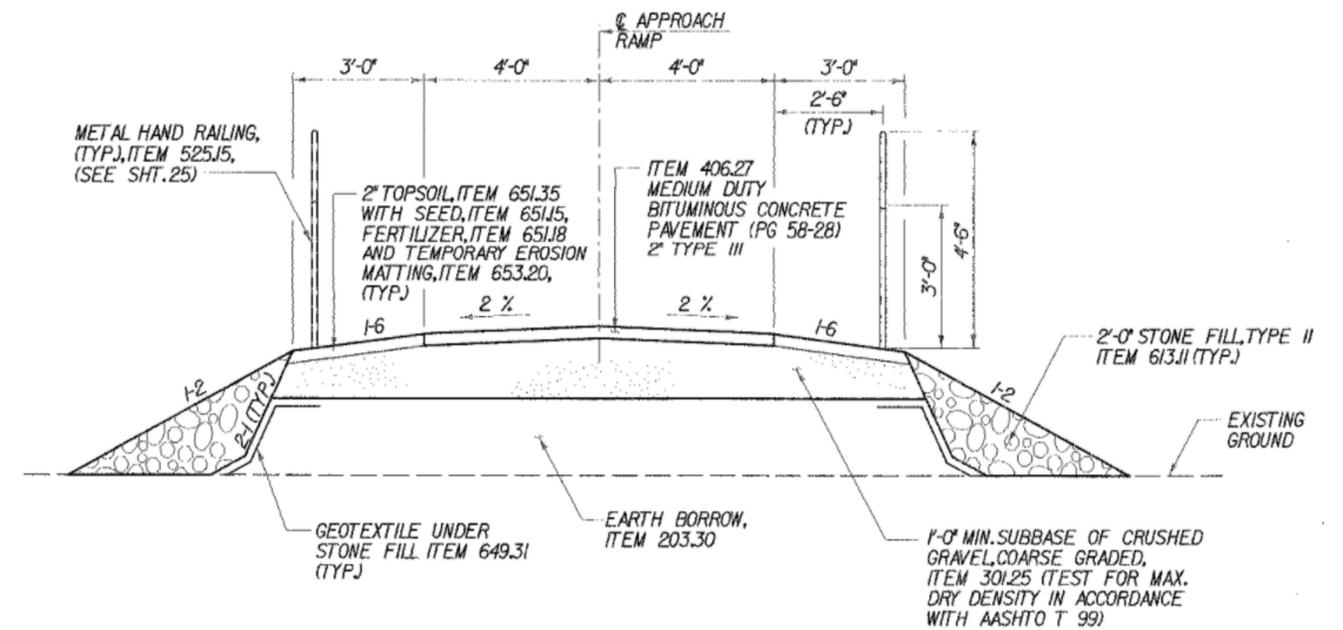


TYPICAL BRIDGE SECTION

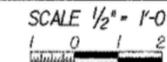


NOTE:

SEE STRUCTURAL STEEL AND TRUSS REHABILITATION NOTES ON SHT.13 FOR PAYMENT INFORMATION ON STRUCTURAL STEEL, SURFACE PREPARATION AND PAINTING ITEMS.



TYPICAL APPROACH RAMP SECTION



**SEEDING FORMULA
RURAL AREAS**

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	22.5	CREeping RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

GENERAL NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE RESIDENT ENGINEER.

FERTILIZER: FORMULA 10-20-10 TO BE USED WITH SEED APPLIED AT THE RATE OF 500 LBS./ACRE (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE RESIDENT ENGINEER.

TEMPORARY EROSION MATTING: TO BE PLACED ON EARTH SLOPES AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

PROJECT TYPICAL SECTIONS

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 5 OF 26



I EPSC NARRATIVE

I PROJECT DESCRIPTION

THE PROPOSED PROJECT AREA IS LOCATED APPROXIMATELY 750 FT SOUTH OF VT ROUTE 140 BETWEEN WALDO LANE AND THE WALLINGFORD TOWN PARK IN THE TOWN OF WALLINGFORD, RUTLAND COUNTY, VERMONT. THIS PROJECT WILL INVOLVE THE INSTALLATION OF A REHABILITATED HISTORIC PONY TRUSS BRIDGE FOR USE AS A NEW PEDESTRIAN CROSSING OVER THE OTHER CREEK CONNECTING WALDO LANE WITH THE TOWN PARK. THE GENERAL WORK TO BE PERFORMED UNDER THIS PROJECT WILL INCLUDE THE REHABILITATION OF THE HISTORIC TRUSS BRIDGE OFF SITE, CONSTRUCTION OF NEW CONCRETE SUBSTRUCTURES AND APPROACHES ON SITE, THE PLACEMENT OF THE HISTORIC TRUSS BRIDGE ON THE NEW SUBSTRUCTURE AND THE CONSTRUCTION OF A NEW SHARED USE PATH CONNECTING THE HISTORIC TRUSS BRIDGE TO WALDO LANE AND THE TOWN PARK. IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 0.3 ACRES INCLUDING THE IMPACTS ASSOCIATED WITH THE VEHICLE ACCESS ROUTE NECESSARY TO CONSTRUCT THIS BRIDGE.

I.2 SITE INVENTORY

I.2.1 OFF SITE DRAINAGE CHARACTERISTICS (UP AND DOWN GRADIENT)

WEST OF THE PROJECT AREA IS A STEEP, WOODED HILL THAT SLOPES DOWN TOWARD THE OTHER CREEK. ON THE EAST SIDE OF THE PROJECT AREA IS A MODERATELY FLAT GRASSSED AREA THAT IS USED AS RECREATION FIELDS BY THE TOWN OF WALLINGFORD. ALL STORMWATER RUNOFF IN THE VICINITY OF THE PROJECT AREA FLOWS OVERLAND INTO THE OTHER CREEK. I.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES
 THE OTHER CREEK IS THE ONLY NATURAL WATER SOURCE LOCATED WITHIN THE VICINITY OF THE PROJECT SITE. THERE ARE NO OTHER DRAINAGE OR WATER FEATURES LOCATED WITHIN THE VICINITY OF THE PROJECT AREA.
 I.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES
 THE EXISTING TOPOGRAPHY WITHIN THE PROJECT AREA PRIMARILY CONSISTS OF A MIXED VEGETATED LANDSCAPE OF A STEEPLY SLOPED DENSELY WOODED AREA ON THE WEST AND FAIRLY LEVEL SLOPED RECREATIONAL FIELDS ON THE EAST WHICH ARE SEPARATED BY THE OTHER CREEK.

I.2.4 VEGETATION

THE VEGETATION IN THE PROJECT AREA PRIMARILY CONSISTS OF A DENSELY FORESTED AREA TO THE WEST AND A RESIDENTIAL AREA WITH GRASSSED RECREATIONAL FIELDS TO THE EAST. THERE IS ALSO A GRAVEL ROAD KNOWN AS WALDO LANE LOCATED ON THE WESTERN SIDE OF THE PROJECT AREA. THE IMPACTS TO EXISTING VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY THE PLACEMENT OF THE HISTORIC TRUSS BRIDGE AND SHARED USE PATH CONSTRUCTION.
 I.2.5 SOILS
 THE U.S. DEPARTMENT OF AGRICULTURE'S NATIONAL RESOURCE CONSERVATION SERVICE (NRCS) HAS IDENTIFIED AND MAPPED TWO SOIL TYPES WITHIN THE PROJECT AREA, ONE ON EACH SIDE OF THE OTHER CREEK. THE SOIL TYPE LOCATED TO THE WEST OF THE PROJECT AREA HAS NOT BEEN RATED FOR EROSION SUSCEPTIBILITY BUT THE SOIL TYPE LOCATED ON THE EASTERN SIDE OF THE PROJECT HAS BEEN CLASSIFIED AS POTENTIALLY HIGHLY ERODIBLE. THE FOLLOWING LIST DEPICTS THE ERODIBILITY PROPERTIES FOR THE TWO TYPES OF SOILS LOCATED WITHIN THE PROJECT AREA.

MAP UNIT TYPE*	DESCRIPTION	SLOPES (%)	ERODIBILITY	ERODIBILITY FACTOR (K)
13B	HINKLEY FINE GRAVELLY LOAMY FINE SAND	0-8	POTENTIALLY HIGHLY ERODIBLE	0.17
96	UDIPSAMMENTS	NEARLY LEVEL	NOT RATED	0.10

*MAP UNIT TYPE IS FROM THE NRCS SOIL SURVEY MAP FOR RUTLAND COUNTY, VERMONT. SEE SHEET 10 FOR LOCATIONS OF MAPPED SOILS.

IN ADDITION, MAP UNIT TYPE 13B HAS BEEN CLASSIFIED BY THE NRCS AS PRIME FARMLAND OF STATEWIDE IMPORTANCE.

I.2.6 SENSITIVE RESOURCE AREAS

THERE ARE NO KNOWN OCCURRENCES OF CRITICAL HABITATS, THREATENED AND ENDANGERED SPECIES, OR HISTORICAL OR ARCHEOLOGICAL SITES LOCATED WITHIN THE LIMITS OF THE PROJECT AREA. HOWEVER, THE MAJORITY OF THE PROJECT AREA LIES WITHIN THE HINKLEY GRAVELLY LOAMY FINE SAND SOIL TYPE THAT IS CLASSIFIED AS FARMLAND OF STATEWIDE IMPORTANCE BY THE NRCS. IN ADDITION, THERE ARE NO KNOWN WETLANDS OR IMPAIRED WATERWAYS LOCATED WITHIN THE PROJECT AREA, BUT THE OTHER CREEK RECEIVING WATERS ADJACENT TO THE PROJECT AREA IS CONSIDERED A SENSITIVE RESOURCE. THE CONTRACTOR SHALL EMPLOY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT TO PROTECT THE WATER QUALITY OF THE OTHER CREEK AS OUTLINED IN THE EPSC PLANS FOR THIS PROJECT'S LOCATION. THE CONTRACTOR SHOULD NOTE THAT THERE IS A 50' RIPARIAN BUFFER ZONE ASSOCIATED WITH THE OTHER CREEK. THIS RIPARIAN BUFFER IS ILLUSTRATED ON THE PROJECT PLANS.

I.3 RISK EVALUATION

THIS PROJECT DOES NOT FALL UNDER THE JURISDICTION OF CONSTRUCTION GENERAL PERMIT 3-9020 BASED ON THE PROJECT IMPACT AREA SHOULD CHANGES PRIOR TO OR DURING CONSTRUCTION RESULT IN ONE OR MORE ACRES OF EARTH DISTURBANCE OR SHOULD THE PROJECT BECOME PART OF A LARGER PLAN OF DEVELOPMENT, THEN THE SELECTED CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH VARNR VIA FILING OF THE APPROPRIATE NOTICE OF INTENT UNDER THE CONSTRUCTION GENERAL PERMIT PROCESS.

I.4 EROSION PREVENTION AND SEDIMENT CONTROL
 THE EROSION PREVENTION AND SEDIMENT CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE WORK OUTLINED IN THIS NARRATIVE CONSISTS OF APPLYING MEASURES THROUGHOUT THE LIFE OF THE PROJECT MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROL AND OTHER POLLUTION PREVENTION CONTROLS.
 PREVENTING INITIAL SOIL EROSION IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION PREVENTION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE. THEREFORE, STABILIZE ALL DISTURBED AREAS AS SOON AS PRACTICAL BUT NO MORE THAN TWO DAYS AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED.

I.4.1 DEMARKATION FENCING AND BARRIER FENCING WILL BE USED TO DELINEATE THE LIMITS IN WHICH THE CONTRACTOR CAN ACCESS WITH CONSTRUCTION EQUIPMENT AND PERSONNEL. THESE MEASURES WILL LIMIT THE AREA THAT CAN BE DISTURBED AND EXPOSED TO EROSION. THE CONTRACTOR SHALL INSTALL THE PERIMETER CONTROLS PRIOR TO STARTING ANY WORK WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL NOT ALLOW ANY CONSTRUCTION EQUIPMENT TO OPERATE OR ACCESS ON THE DOWN SLOPE SIDE OF OF A FLOWING STREAM OR DISTURBANCE OF THE EXISTING STREAM BANKS BY CONSTRUCTION EQUIPMENT EXCEPT AS AUTHORIZED BY THE ON-SITE PLAN COORDINATOR.
 I.4.2 LIMIT DISTURBANCE AREA
 EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES (PHASING) AS CONSTRUCTION ACTIVITIES PROCEED. ADDITIONAL MEASURES MAY BE NEEDED DUE TO THE PHASING OF THE PROJECT AND AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. IN GENERAL, PRESERVE EXISTING VEGETATION, TREES AND SHRUBS WHEN POSSIBLE, AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

I.4.3 STABILIZE CONSTRUCTION EXIT
 THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY STABILIZED CONSTRUCTION ENTRANCE ALONG WITH AN ACCESS PATH AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL NOT ALLOW CONSTRUCTION VEHICLES TO TRACK SEDIMENT OFFSITE OF THE PROJECT LIMITS. THE CONSTRUCTION ENTRANCE SHALL BE REMOVED AND THE AREA RESTORED IMMEDIATELY FOLLOWING COMPLETION OF THE PROJECT.
 I.4.4 INSTALL WOVEN WIRE REINFORCED SILT FENCE
 WOVEN WIRE REINFORCED SILT FENCE SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK AS SHOWN ON THE PLANS AS NECESSARY OR AS DIRECTED BY THE ON-SITE COORDINATOR.

I.4.1 MARK SITE BOUNDARIES
 PROJECT DEMARKATION FENCING AND BARRIER FENCING WILL BE USED TO DELINEATE THE LIMITS IN WHICH THE CONTRACTOR CAN ACCESS WITH CONSTRUCTION EQUIPMENT AND PERSONNEL. THESE MEASURES WILL LIMIT THE AREA THAT CAN BE DISTURBED AND EXPOSED TO EROSION. THE CONTRACTOR SHALL INSTALL THE PERIMETER CONTROLS PRIOR TO STARTING ANY WORK WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL NOT ALLOW ANY CONSTRUCTION EQUIPMENT TO OPERATE OR ACCESS ON THE DOWN SLOPE SIDE OF ANY PERIMETER CONTROL MEASURE. THE CONTRACTOR SHALL NOT ALLOW ANY CROSSING OF A FLOWING STREAM OR DISTURBANCE OF THE EXISTING STREAM BANKS BY CONSTRUCTION EQUIPMENT EXCEPT AS AUTHORIZED BY THE ON-SITE PLAN COORDINATOR.
 I.4.2 LIMIT DISTURBANCE AREA
 EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES (PHASING) AS CONSTRUCTION ACTIVITIES PROCEED. ADDITIONAL MEASURES MAY BE NEEDED DUE TO THE PHASING OF THE PROJECT AND AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. IN GENERAL, PRESERVE EXISTING VEGETATION, TREES AND SHRUBS WHEN POSSIBLE, AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

I.4.12 INSPECT YOUR SITE
 INSPECTION OF EROSION PREVENTION AND SEDIMENT CONTROL MEASURES USED WITHIN THE PROJECT SITE SHALL BE INSPECTED ON A DAILY BASIS AND AFTER EVERY STORM GREAT ENOUGH TO CAUSE WATER TO LEAVE THE CONSTRUCTION SITE OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. WHEN DAMAGE TO MEASURES ARE DISCOVERED AND SEDIMENT SHALL BE REMOVED AS NEEDED DIRECTED BY THE ON-SITE PLAN COORDINATOR. REPAIRS SHALL BE MADE AS NEEDED WHEN DAMAGE TO MEASURES ARE DISCOVERED AND SEDIMENT APPROACHES ONE HALF OF ITS INTENDED CAPACITY OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

I.4.10 STABILIZE SOIL AT FINAL GRADE
 STONE FILL SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1-3 AS SHOWN IN MULCH. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE. I.4.11 DE-WATERING ACTIVITIES
 NO DE-WATERING ACTIVITIES ARE ANTICIPATED AS PART OF THIS PROJECT.

I.4.12 INSPECT YOUR SITE
 INSPECTION OF EROSION PREVENTION AND SEDIMENT CONTROL MEASURES USED WITHIN THE PROJECT SITE SHALL BE INSPECTED ON A DAILY BASIS AND AFTER EVERY STORM GREAT ENOUGH TO CAUSE WATER TO LEAVE THE CONSTRUCTION SITE OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. WHEN DAMAGE TO MEASURES ARE DISCOVERED AND SEDIMENT APPROACHES ONE HALF OF ITS INTENDED CAPACITY OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

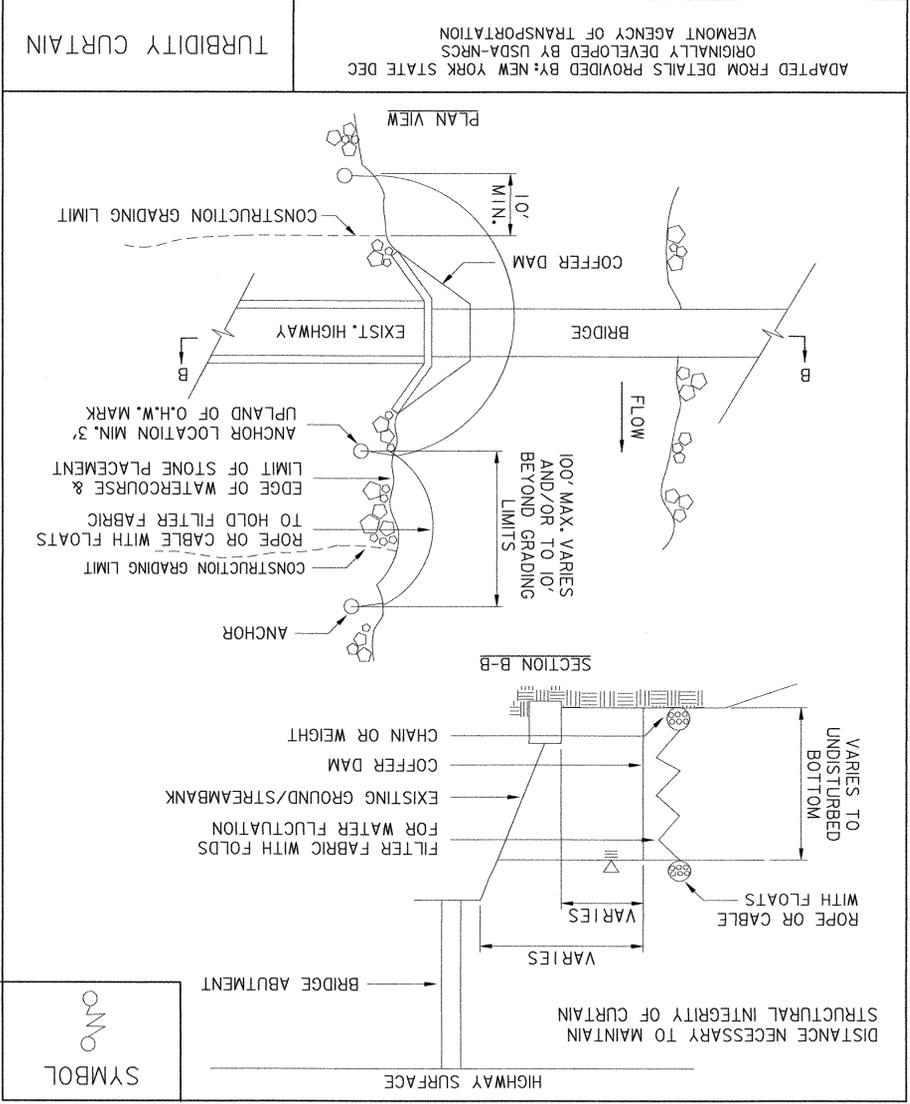
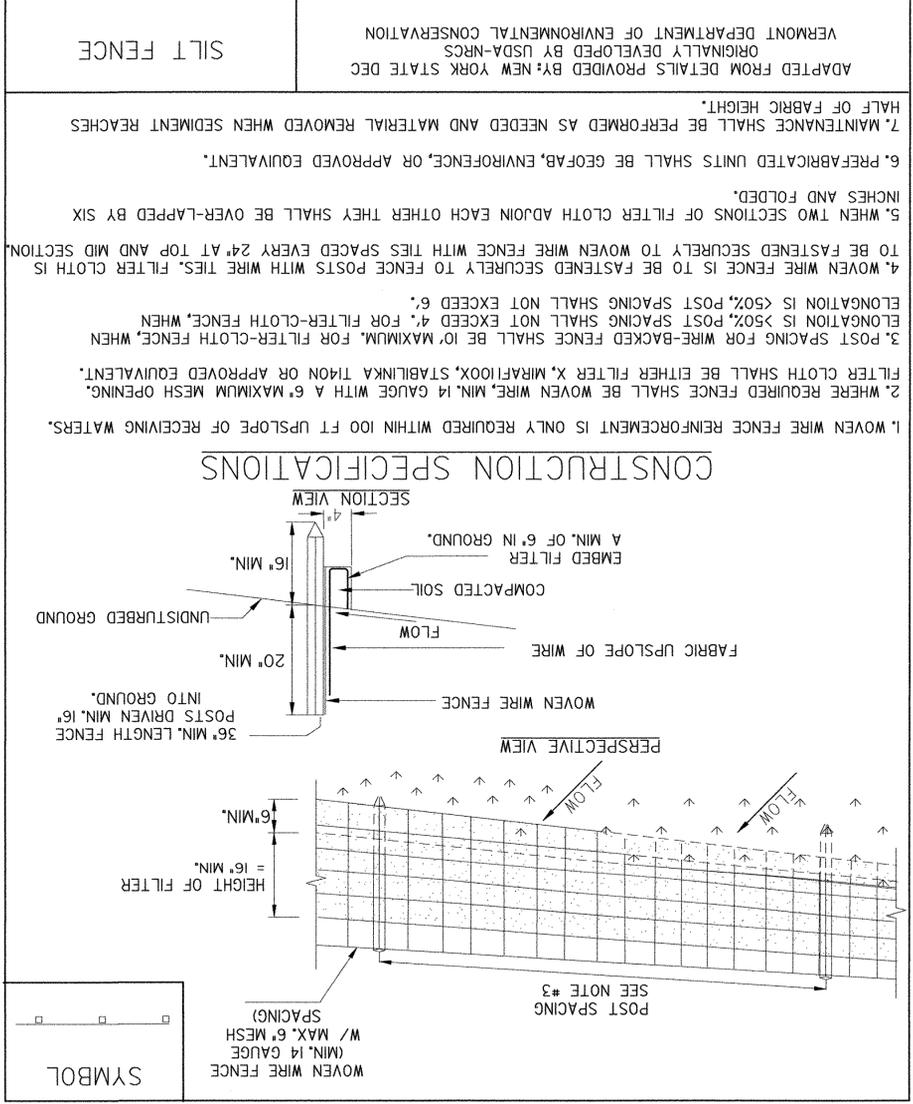
EPSC NARRATIVE



PROJECT NAME: WALLINGFORD STP ST WALK(14)
 PROJECT NUMBER: \$FILES\$
 FILE NAME: \$FILES\$
 PROJECT MANAGER: SUSAN SCRIBNER
 DESIGNED BY: L. HARDEN
 CHECKED BY: P. HALSTEAD
 DRAWN BY: W. WEATHERBY
 PLANT DATE: 1/22/2009

BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 SHEET 7 OF 26

NOTES:
 REFER TO THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
 THIS ITEM SHALL BE PAID FOR UNDER ITEM 649.515 GEOTEXTILE FOR SILT FENCE OR 649.515 GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED



NOTES:
 THIS ITEM SHALL BE PAID FOR UNDER ITEM 649.61 GEOTEXTILE FOR FILTER CURTAIN

PROJECT NAME: WALLINGFORD
 PROJECT NUMBER: STP ST WALK(14)



FILE NAME: \$FILES\$
 PROJECT MANAGER: SUSAN SCRIBNER
 DESIGNED BY: L. HARDEN
 BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 DRAWN BY: W. WEATHERBY
 CHECKED BY: P. HALSTEAD
 PLOT DATE: 1/9/2009
 SHEET 8 OF 26

EPSC DETAIL SHEET 1

NOTES:
 REFER TO THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL - 2006 - FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
 THIS ITEM SHALL BE PAID FOR UNDER ITEM 653.35 VEHICLE TRACKING PAD

REVISIONS
FEBRUARY 9, 2007 WHF
MARCH 8, 2007 JMF

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION	STABILIZED CONSTRUCTION ENTRANCE
<h3>CONSTRUCTION SPECIFICATIONS</h3>	
1. STONE SIZE - USE 1-4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. 2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH APPLIES). 3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES. 4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE. 5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH 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 OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. 8. 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 ACCORDING TO PERMIT REQUIREMENTS.	
SYMBOL	

EPSC DETAIL SHEET 2

PROJECT NAME: WALLINGFORD

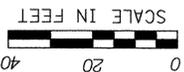
PROJECT NUMBER: STP ST WALK(14)

FILE NAME: \$FILES\$
 PROJECT MANAGER: SUSAN SCRIBNER
 DESIGNED BY: L. HARDEN
 CHECKED BY: P. HALSTEAD
 DRAWN BY: W. WEATHERBY
 PLOT DATE: 1/9/2009

BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 SHEET 9 OF 26



DATUM
 VERTICAL NAVD 88
 HORIZONTAL NAD 83 (1992)



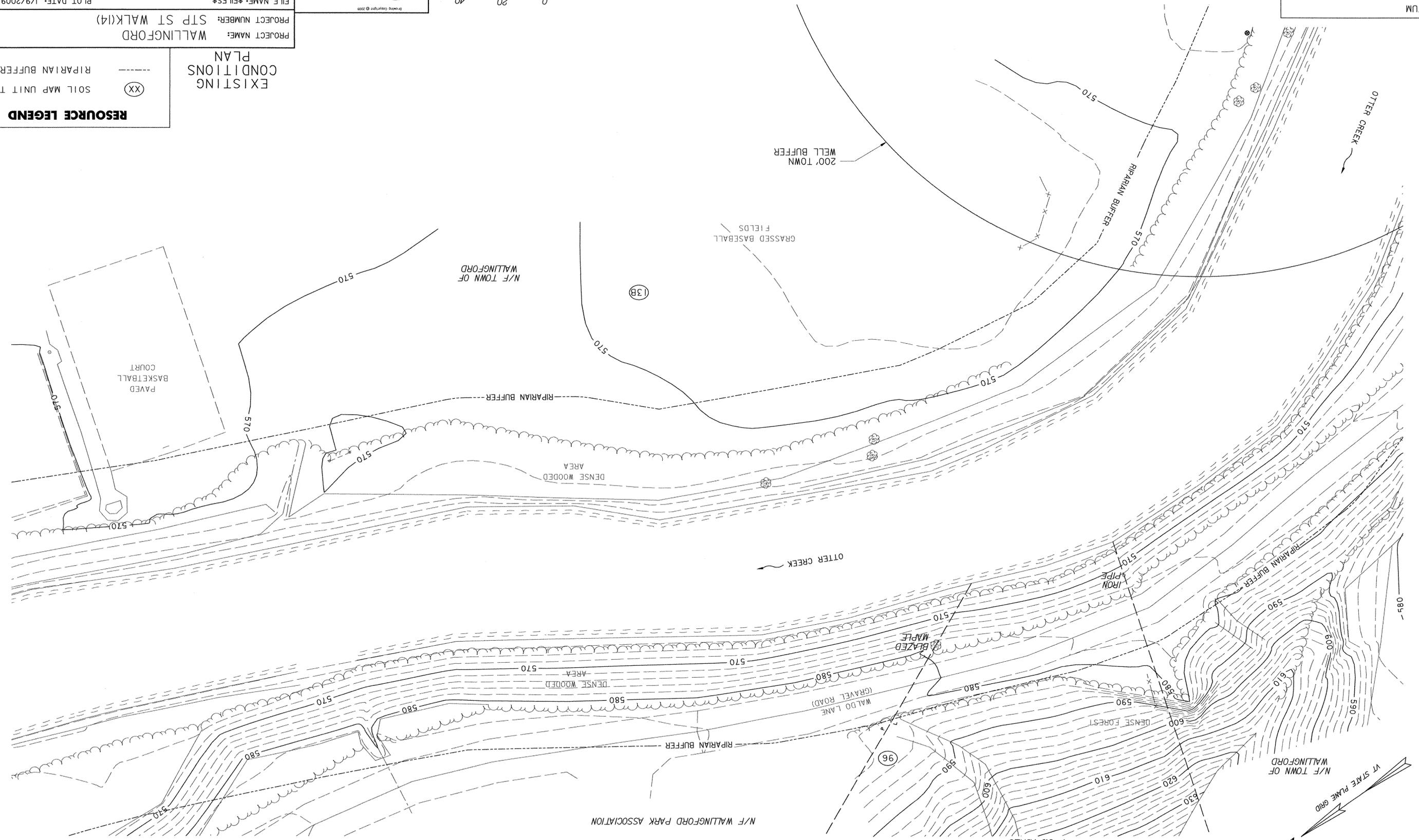
FILE NAME: \$FILES\$
 PROJECT MANAGER: SUSAN SCRIBNER
 DESIGNED BY: L. HARDEN
 BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 SHEET 10 OF 26

PROJECT NAME: WALLINGFORD
 PROJECT NUMBER: STP ST WALK(14)

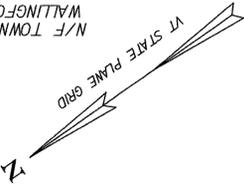
RESOURCE LEGEND

SOIL MAP UNIT TYPE (XX)
 RIPARIAN BUFFER

EXISTING
 CONDITIONS
 PLAN



N/F THOMAS J. PHILLIPS AND KIMBERLY A. PHILLIPS
 FROM EDWARD H. MOORE, JR.
 BK. 83, PG. 459 MARCH 29TH, 2006
 +/- 3.0 ACRES



DATUM
 VERTICAL NAVD 88
 HORIZONTAL NAD 83 (1992)

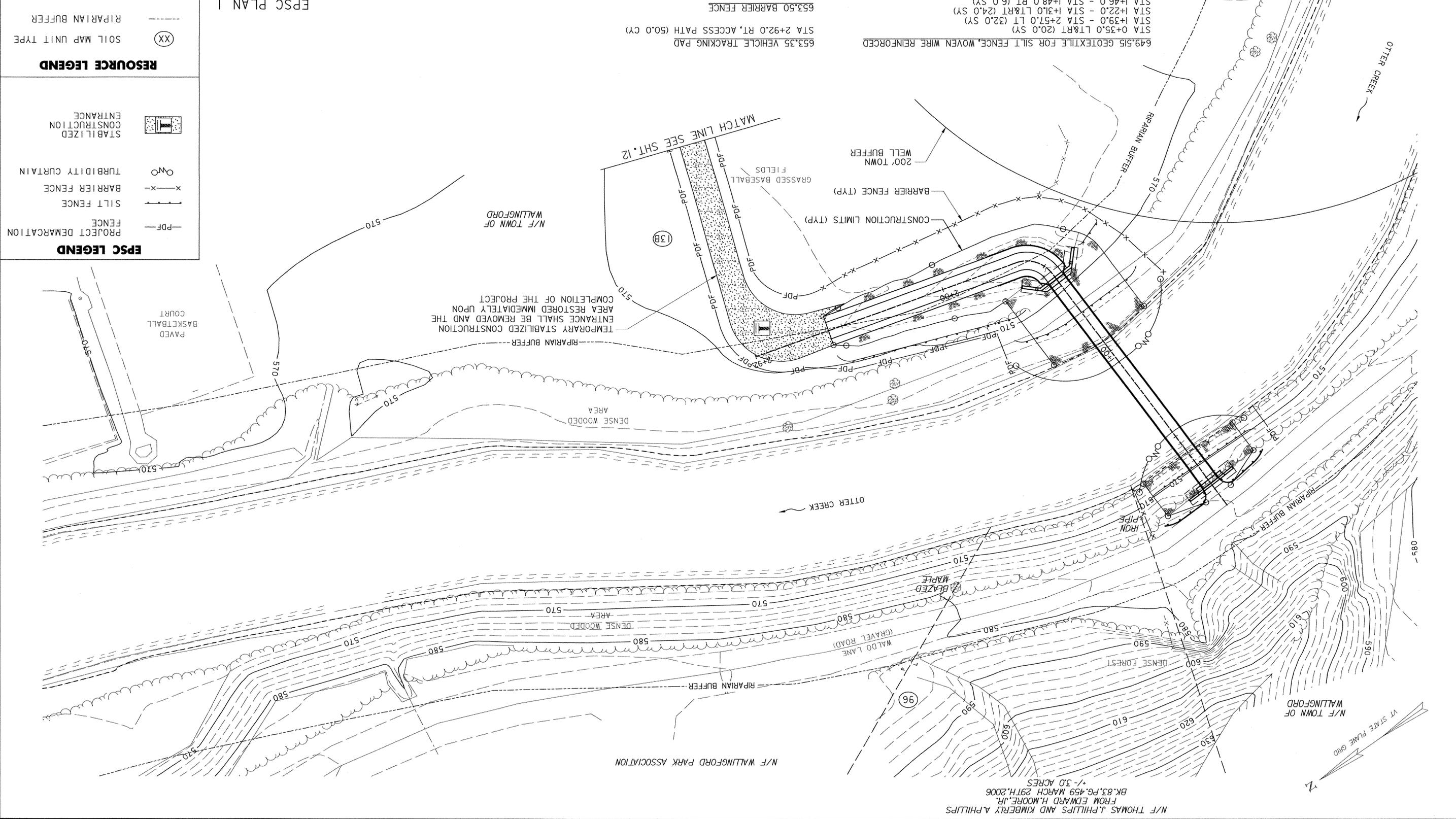
653.35 VEHICLE TRACKING PAD (50.0 LF)
 STA 2+92.0 RT, ACCESS PATH (50.0 CY)
 653.50 BARRIER FENCE
 STA 0+19.0 - STA 0+43.0 LT (24.0 LF)
 STA 1+12.0 - STA 2+53.0 RT (180.0 LF)
 653.55 PROJECT DEMARCATION FENCE
 STA 0+19.0 - STA 0+40.0 RT (21.0 LF)
 STA 1+18.0 - STA 2+92.0 LT (240.0 LF)
 STA 2+53.0 RT - STA 2+90.0 RT (100.0 LF)

649.515 GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED
 STA 0+35.0 LT&RT (20.0 SY)
 STA 1+39.0 - STA 2+57.0 LT (32.0 SY)
 STA 1+22.0 - STA 1+31.0 LT&RT (24.0 SY)
 STA 1+46.0 - STA 1+48.0 RT (6.0 SY)
 649.61 GEOTEXTILE FOR FILTER CURTAIN
 STA 0+37.0 - STA 0+53.0 LT&RT (60.0 SY)
 STA 0+92.0 - STA 1+21.0 LT&RT (86.0 SY)



PROJECT NAME: WALLINGFORD
 PROJECT NUMBER: STP ST WALK(14)
 FILE NAME: \$FILES\$
 PROJECT MANAGER: SUSAN SCRIBNER
 DRAWN BY: W. WEATHERBY
 CHECKED BY: P. HALSTEAD
 DESIGNED BY: L. HARDEN
 BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 SHEET II OF 26
 PLOT DATE: 1/9/2009

EPSC LEGEND	
—PDF—	PROJECT DEMARCATION FENCE
—x—x—	SILT FENCE
—x—x—	BARRIER FENCE
○	TURBIDITY CURTAIN
▬	STABILIZED CONSTRUCTION ENTRANCE
RESOURCE LEGEND	
(XX)	SOIL MAP UNIT TYPE
---	RIPARIAN BUFFER



N/F THOMAS J. PHILLIPS AND KIMBERLY A. PHILLIPS
 FROM EDWARD H. MOORE, JR.
 BR. 83, PG. 459 MARCH 29TH, 2006
 +/- 30 ACRES

N/F WALLINGFORD PARK ASSOCIATION



DATUM
 VERTICAL NAVD 88
 HORIZONTAL NAD 83 (1992)

NOTE:
 1. THE CONTRACTOR SHALL UTILIZE THE EXISTING GATE TO GAIN ACCESS TO THE PROJECT AREA. ANY MODIFICATIONS REQUIRED TO THE EXISTING FENCE SHALL BE APPROVED BY THE RESIDENT ENGINEER. ALL WORK ASSOCIATED WITH MODIFYING THE EXISTING GATE SHALL BE INCIDENTAL TO ITEM 653.35 VEHICLE TRACKING PAD.

653.35 VEHICLE TRACKING PAD (82.0 CY)
 STA 2+92.0 RT, ACCESS PATH
 653.55 PROJECT DEMARCATION FENCE
 STA 2+92.0 RT, ACCESS PATH (250 LF)
 STA 2+92.0 RT, ACCESS PATH (252 LF)

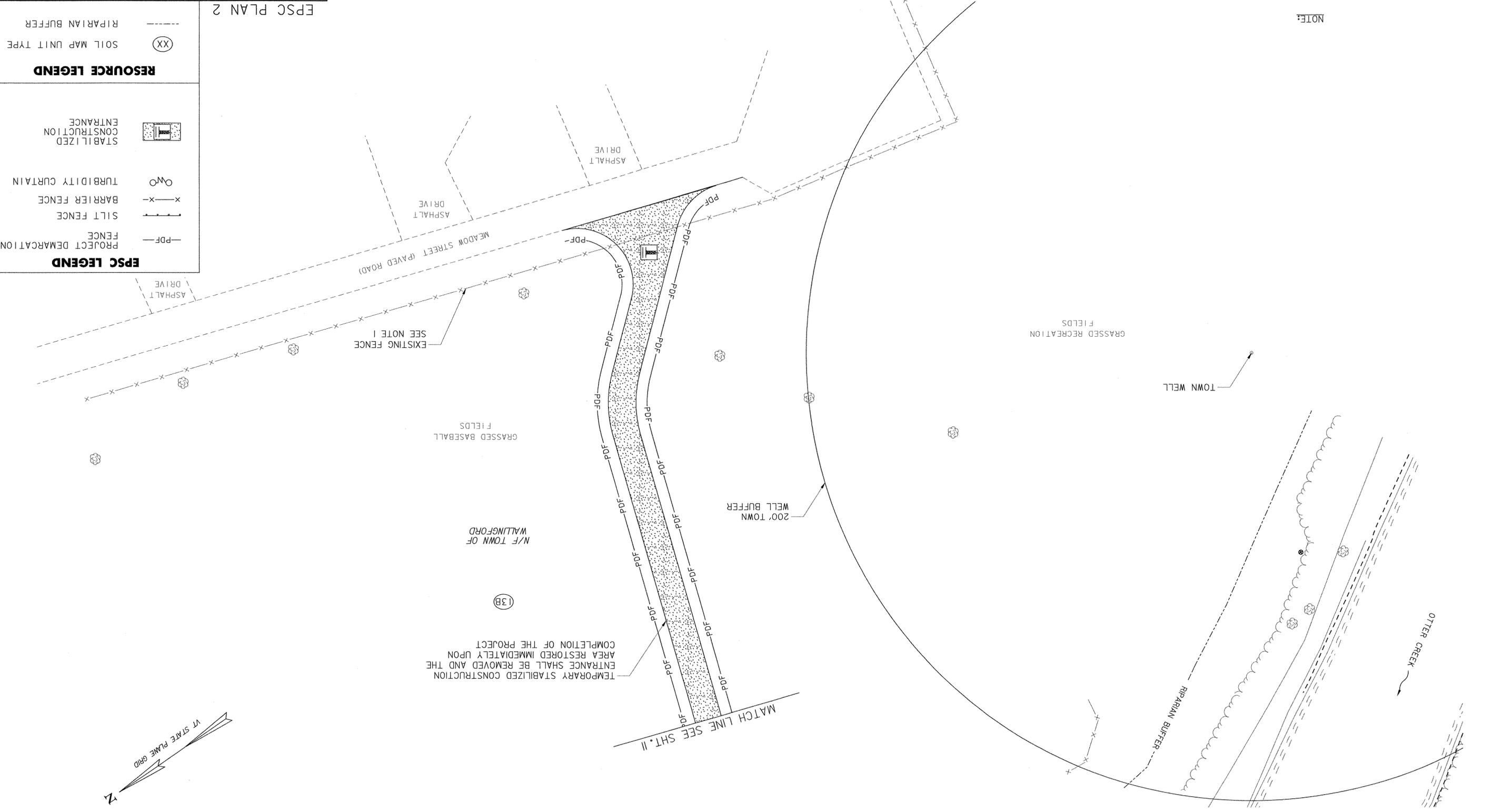


FILE NAME: \$FILES\$
 PROJECT MANAGER: SUSAN SCRIBNER
 DESIGNED BY: L. HARDEN
 BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 SHEET 12 OF 26

PROJECT NAME: WALLINGFORD
 PROJECT NUMBER: STP ST WALK(14)

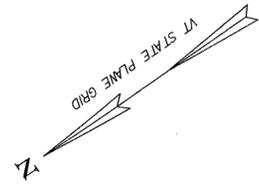
EPSC PLAN 2

EPSC LEGEND	
---	PROJECT DEMARCATION FENCE
-x-x-	SILT FENCE
-x-x-	BARRIER FENCE
o	TURBIDITY CURTAIN
[Symbol]	STABILIZED CONSTRUCTION ENTRANCE
RESOURCE LEGEND	
(XX)	SOIL MAP UNIT TYPE
----	RIPARIAN BUFFER



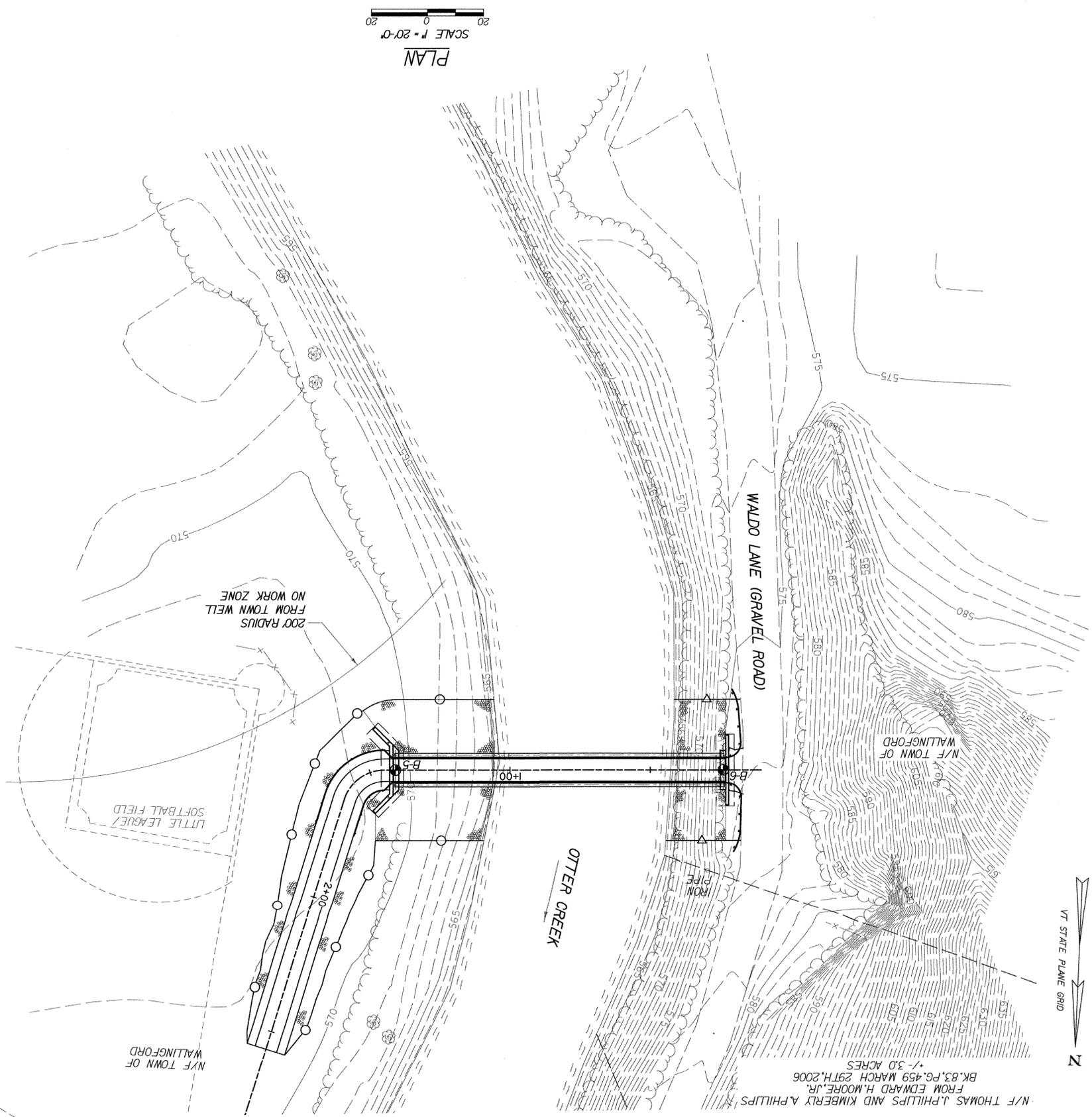
TEMPORARY STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED AND THE AREA RESTORED IMMEDIATELY UPON COMPLETION OF THE PROJECT

MATCH LINE SEE SHT. II





N/F THOMAS J. PHILLIPS AND KIMBERLY A. PHILLIPS
 FROM EDWARD H. MOORE, JR.
 BK. 83, PG. 459 MARCH 29TH, 2006
 +/- 3.0 ACRES



PLAN
 SCALE 1" = 20'-0"
 0 20

SAMP./CORE NUMBER	DEPTH (feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (feet)	REMARKS ON WATER LEVELS AND/OR RETURN, etc
1	1.0		SI 2.0-1.8	100.0	
2	1.8		SI 2.0-1.8	100.0	
3	1.8		SI 2.0-1.8	100.0	
4	1.8		SI 2.0-1.8	100.0	
5	1.8		SI 2.0-1.8	100.0	
6	1.8		SI 2.0-1.8	100.0	
7	1.8		SI 2.0-1.8	100.0	
8	1.8		SI 2.0-1.8	100.0	
9	1.8		SI 2.0-1.8	100.0	
10	1.8		SI 2.0-1.8	100.0	
11	1.8		SI 2.0-1.8	100.0	
12	1.8		SI 2.0-1.8	100.0	
13	1.8		SI 2.0-1.8	100.0	

SUBSURFACE LOGS PRESENT MATERIAL CLASSIFICATIONS, TEST DATA AND OBSERVATIONS FROM SUBSURFACE INVESTIGATIONS AT THE SUBJECT SITE AS REPORTED BY THE INSPECTING GEOLOGIST OR ENGINEER. IN SOME CASES, THE CLASSIFICATIONS MAY BE MADE BASED ON LABORATORY TEST DATA WHEN AVAILABLE. IT SHOULD BE NOTED THAT THE INVESTIGATION PROCEDURES ONLY RECOVER A SMALL PORTION OF THE SUBSURFACE MATERIALS AT THE SITE. THEREFORE, ACTUAL CONDITIONS BETWEEN BORINGS AND SAMPLED INTERVALS MAY DIFFER FROM THOSE PRESENTED ON THE SUBSURFACE LOGS. THE INFORMATION PRESENTED ON THE LOGS PROVIDE A BASIS FOR AN EVALUATION OF THE SUBSURFACE CONDITIONS AND MAY INDICATE THE NEED FOR ADDITIONAL EXPLORATION. ANY EVALUATION OF THE CONDITIONS REPORTED ON THE LOGS MUST BE PERFORMED BY PROFESSIONAL ENGINEERS OR GEOLOGISTS.

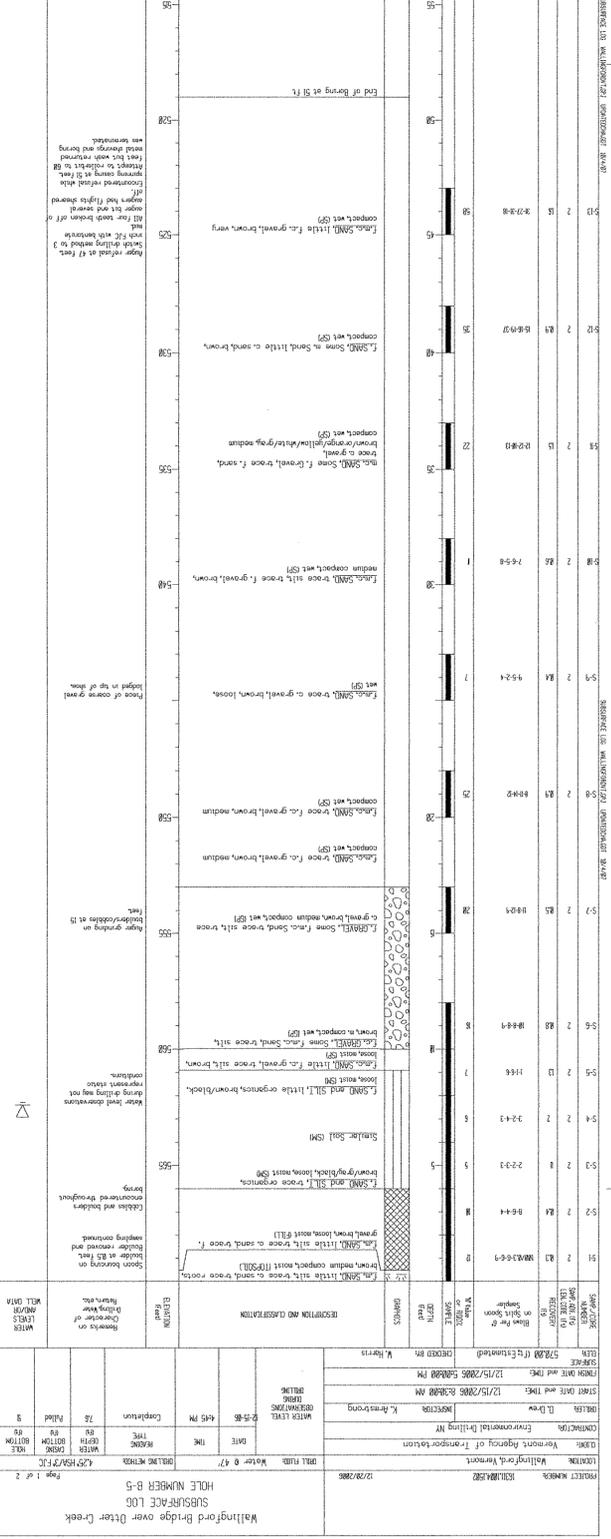
1. SAMP./CORE NUMBER - SAMPLES ARE NUMBERED FOR IDENTIFICATION ON CONTAINERS, LABORATORY REPORTS OR IN TEXT REPORTS.
2. SAMPADV/LENCORE - LENGTH OF SAMPLER ADVANCE OR LENGTH OF CORING RUN MEASURED IN FEET.
3. RECOVERY - AMOUNT OF SAMPLE ACTUALLY RECOVERED AFTER WITHDRAWING SAMPLER OR CORE BARREL FROM BORE HOLE MEASURED IN FEET.
4. SAMPLE BLOWS/6' - UNLESS OTHERWISE NOTED, BLOW COUNTS REPRESENT VALUES OBTAINED BY DRAWING A 2.0" (OD), 1-3/8" (ID) SPLIT SPOON SAMPLER INTO THE SUBSURFACE STRATA WITH A 140 POUND WEIGHT FALLING 30" AS PER ASTM D 1586, AFTER AN INITIAL PENETRATION OF 6" TO SEAT THE SAMPLER INTO UNDISTURBED MATERIAL. THE SAMPLER IS THEN DRIVEN AN ADDITIONAL 2 OR 3 SIX INCH INCREMENTS. 'N' VALUE OR ROD % - 'N' VALUE - THE SUM OF THE SECOND AND THIRD SAMPLE BLOW INCREMENTS IS GENERALLY TERMED THE STANDARD PENETRATION TEST (SPT) 'N' VALUE. CORE ROD - CORE ROCK QUALITY DESIGNATION. ROD IS DEFINED AS THE SUMMED LENGTH OF ALL PIECES OF CORE EQUAL TO OR LONGER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF THE CORING RUN. FRESH, IRREGULAR BREAKS DISTINGUISHABLE AS BEING CAUSED BY DRILLING OR RECOVERY OPERATIONS ARE IGNORED AND THE PIECES ARE COUNTED AS INTACT LENGTHS. ROD VALUES ARE VALID ONLY FOR CORES OBTAINED WITH NX SIZE CORE BARRELS.
5. SAMPLE - GRAPHICAL REPRESENTATION OF SAMPLE TYPE AND ADVANCE OR CORE RUN LENGTH. SEE TABLE 1, SHT. 15.
6. DEPTH - DEPTH AS MEASURED FROM THE GROUND SURFACE IN FEET.
7. GRAPHICS - GRAPHICAL PRESENTATION OF SUBSURFACE MATERIALS. SEE TABLE 4, SHT. 15. DUAL SOIL CLASSIFICATION AND ROCK GRAPHICS MAY VARY AND ARE NOT SHOWN ON TABLE 4, SHT. 15.
8. DESCRIPTION AND CLASSIFICATION - SOIL - RECOVERED SAMPLES ARE VISUALLY CLASSIFIED IN THE FIELD BY THE SUPERVISING GEOLOGIST OR ENGINEER UNLESS OTHERWISE NOTED. PARTICLE SIZE AND PLASTICITY CLASSIFICATION IS BASED ON FIELD OBSERVATIONS AND USING THE AASHTO SOIL CLASSIFICATION SYSTEM. SEE TABLE 4, SHT. 15. AASHTO SYMBOLS ARE PRESENTED IN PARENTHESES FOLLOWING THE SOIL DESCRIPTION, WHERE NECESSARY. DUAL SYMBOLS MAY BE USED FOR COMBINATIONS OF SOIL TYPES, RELATIVE PROPORTIONS, BY WEIGHT AND/OR PLASTICITY, ARE DESCRIBED IN GENERAL ACCORDANCE WITH SUGGESTED METHODS OF TEST FOR IDENTIFICATION OF SOILS BY DM. BURMISTER, ASTM SPECIAL PUBLICATION 479-6-1970. SEE TABLE 2, SHT. 15. SOIL DENSITY OR CONSISTENCY DESCRIPTION IS BASED ON THE PENETRATION RESISTANCE. SEE TABLE 3, SHT. 15. SOIL MOISTURE DESCRIPTION IS BASED ON THE OBSERVED WETNESS OF THE SOIL RECOVERED BEING DRY, MOIST, WET, OR SATURATED. WATER INTRODUCED INTO THE BORING DURING DRILLING MAY AFFECT THE MOISTURE CONTENT OF THE MATERIALS. OTHER GEOLOGIC TERMS MAY ALSO BE USED TO FURTHER DESCRIBE THE SUBSURFACE MATERIALS. ROCK - ROCK CORE DESCRIPTIONS ARE BASED ON THE INSPECTOR'S OBSERVATIONS AND MAY BE EXAMINED AND DESCRIBED IN GREATER DETAIL BY THE PROJECT ENGINEER OR GEOLOGIST. TERMS USED IN THE DESCRIPTION OF ROCK CORE ARE PRESENTED IN TABLE 5, SHT. 15.
9. DIVISION LINES - DIVISION LINES BETWEEN DEPOSITS ARE BASED ON FIELD OBSERVATIONS AND CHANGES IN RECOVERED MATERIAL. SOLID LINES DEPICT CONTACTS BETWEEN TWO DEPOSITS OF DIFFERENT GEOLOGIC DEPOSITIONAL ENVIRONMENT OF KNOWN ELEVATION. DASHED LINES REPRESENT ESTIMATED ELEVATION OF CONTACTS BETWEEN TWO DEPOSITS OF DIFFERENT GEOLOGIC DEPOSITIONAL ENVIRONMENT. DOTTED LINES DEPICT TRANSITIONS OF DEPOSITS WITHIN THE SAME DEPOSITIONAL ENVIRONMENT, SUCH AS GRAIN SIZE OR DENSITY.
10. ELEVATION - ELEVATION OF STRATA CHANGES IN FEET.
11. REMARKS - MISCELLANEOUS OBSERVATIONS.
12. WATER LEVELS & WELL DATA - HOLLOW WATER LEVEL SYMBOLS REPRESENT PRESENT LEVEL AT WHICH FIRST SATURATED SAMPLE OR WATER LEVEL WAS ENCOUNTERED. SOLID WATER LEVEL SYMBOLS REPRESENT DEPICTS THE MOST PROBABLE STATIC WATER ELEVATION AT THE TIME OF DRILLING OR AS MEASURED IN AN INSTALLED OBSERVATION WELL AT A LATER DATE. SUBSURFACE WATER CONDITIONS ARE INFLUENCED BY FACTORS SUCH AS PRECIPITATION, STRATIGRAPHIC COMPOSITION AND DRILLING/CORING METHODS. CONDITIONS AT OTHER TIMES MAY DIFFER FROM THOSE DESCRIBED ON THE LOGS. FOR GRAPHICAL PRESENTATION OF OBSERVATION/MONITORING WELL CONSTRUCTION, SEE TABLE 6, SHT. 15. ELEVATIONS OF CHANGES IN CONSTRUCTION ARE NOTED AT THE BOTTOM OF EACH SECTION.

BORING INFORMATION

PROJECT NAME: WALLINGFORD STP ST WALK(14)
 PROJECT NUMBER: FILE#
 PROJECT MANAGERS: SUSAN SCRIBNER
 DESIGNED BY: L. HARDEN
 CHECKED BY: P. HALSTEAD
 BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 FILE NAME: \$FILES\$
 DRAWN BY: W. WEATHERBY
 SHEET 14 OF 26
 DATE: 1/9/2009

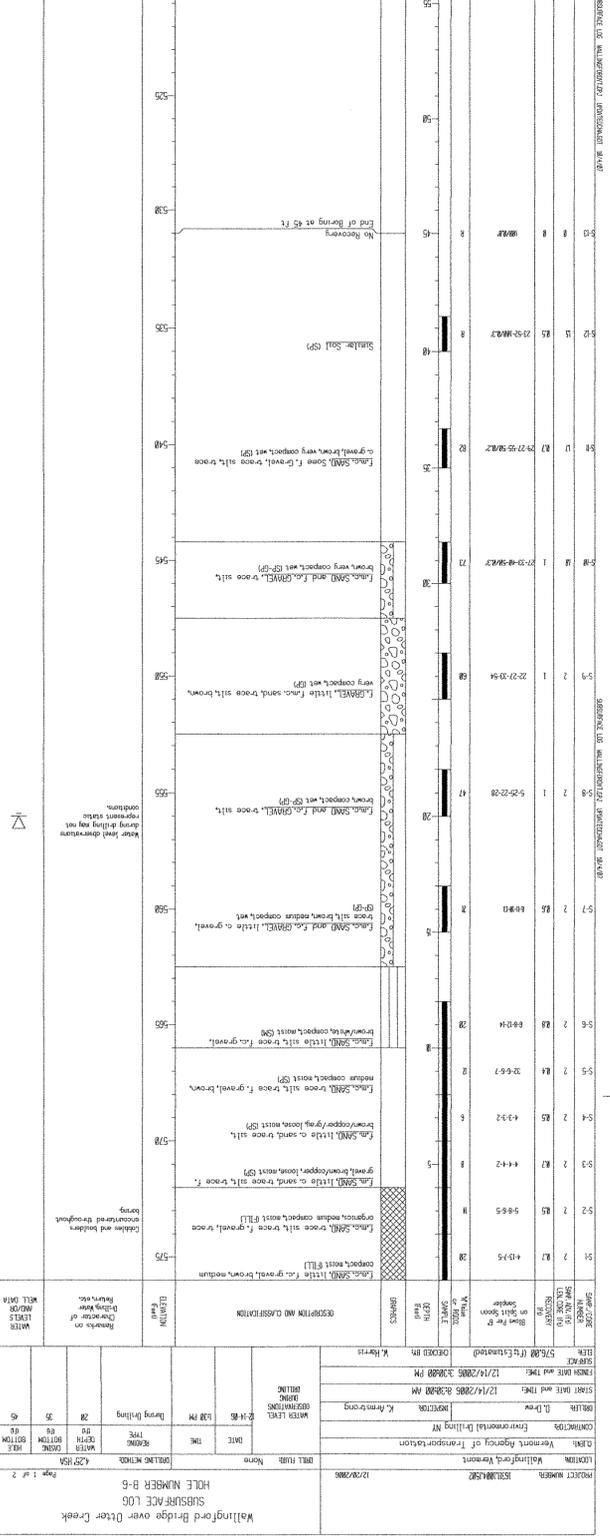


ABUTMENT 2
 TIP EL.514.00



ABUTMENT 2
 BOTTOM OF FOOTING

ABUTMENT 1
 ESTIMATED PILE
 TIP EL.518.00



ABUTMENT 1
 BOTTOM OF FOOTING

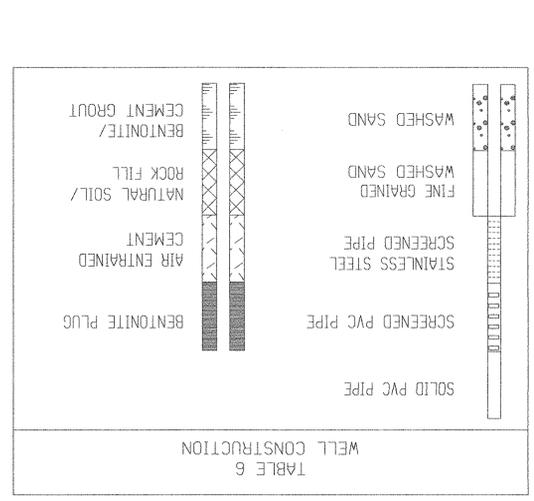
NOTE:
 SEE SHT. 14 FOR BORING LOCATIONS



FILE NAME: \$FILES\$
 PROJECT MANAGER: SUSAN SCRIBNER
 DESIGNED BY: L. HARDEN
 BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 SHEET 15 OF 26

PROJECT NAME: WALLINGFORD
 PROJECT NUMBER: STP ST WALK(14)

BORING LOGS



BEDDING:		FRACTURE SPACING:		ROD:	
Thin	< 4"	V. Thin/V. Close	< 2 1/2"	V. Poor	< 25%
Medium	4" - 12"	Med./Med.	2 1/2" - 8"	Fair	25% - 50%
Thick	12" - 40"	Thick/Wide	8" - 24"	Good	51% - 75%
Massive	> 40"	Massive/V. Wide	> 6"	Excellent	76% - 90%

WEATHERING:		HARDNESS:	
Fresh	Slight or no staining of fractures, little or no fracturing, few fractures.	Very Soft	Carves
Slightly	Fractures stained, discoloration may extend into rock 1", some soil in fractures.	Soft	Grooves with knife
Moderately	Significant portions of rock stained and discolored, soil in fractures, loss of strength.	Med. Hard	Scratched easily with knife
Highly	Entire rock discolored and dull except quartz grains, severe loss of strength.	Hard	Scratched with difficulty
Complete	Weathered to a residual soil.	Very Hard	Cannot be scratched with knife

TABLE 5
 ROCK CLASSIFICATION TERMS

ADJECTIVE		PERCENTAGE OF SAMPLE	
and	35% - 50%	Density	Blows/ft.
'some'	20% - 35%	Very Loose	< 2
'little'	10% - 20%	Loose	2-4
'trace'	< 10%	Med. Compact	5-8
		Compact	9-15
		Very Compact	16-30
			> 30

TABLE 3
 DENSITY/CONSISTENCY

MAJOR PARTICLE SIZE DIVISION		USCS CLASSIFICATION, PARTICLE SIZE, & GRAPHICS	
GRAVEL	Coarse: 3/4" - #4 Fine: 3/4" - #4	GW	Well graded gravels, gravel & sand mix.
		GM	Gravel, sand and silt mix.
		GC	Gravel, sand and clay mix.
		SW	Well graded sand, sand & gravel mix.
		SP	Poorly graded sand, sand & gravel mix.
SAND	Coarse: #4 - #10 Med.: #10 - #40 Fine: #40 - #200	SM	Sand and silt mix.
		SC	Sand and clay mix.
		ML	Inorganic silt, low plasticity.
		CL	Inorganic clay, low plasticity.
		OL	Organic silt/clay, low plasticity.
		MH	Inorganic silt, high plasticity.
		CH	Inorganic clay, high plasticity.
		OH	Organic silt/clay, high plasticity.
		Pt	Fat and other highly organic soils.
		FI	Miscellaneous fill materials.

TYPICAL SAMPLE TYPES		ADJECTIVE	
SPLIT SPOON (3/8" I.D.)	35% - 50%	Density	Blows/ft.
ROCK CORE	20% - 35%	Very Loose	< 2
SHELBY TUBE	10% - 20%	Loose	2-4
AUGER SAMPLE	< 10%	Med. Compact	5-8
		Compact	9-15
		Very Compact	16-30
			> 30

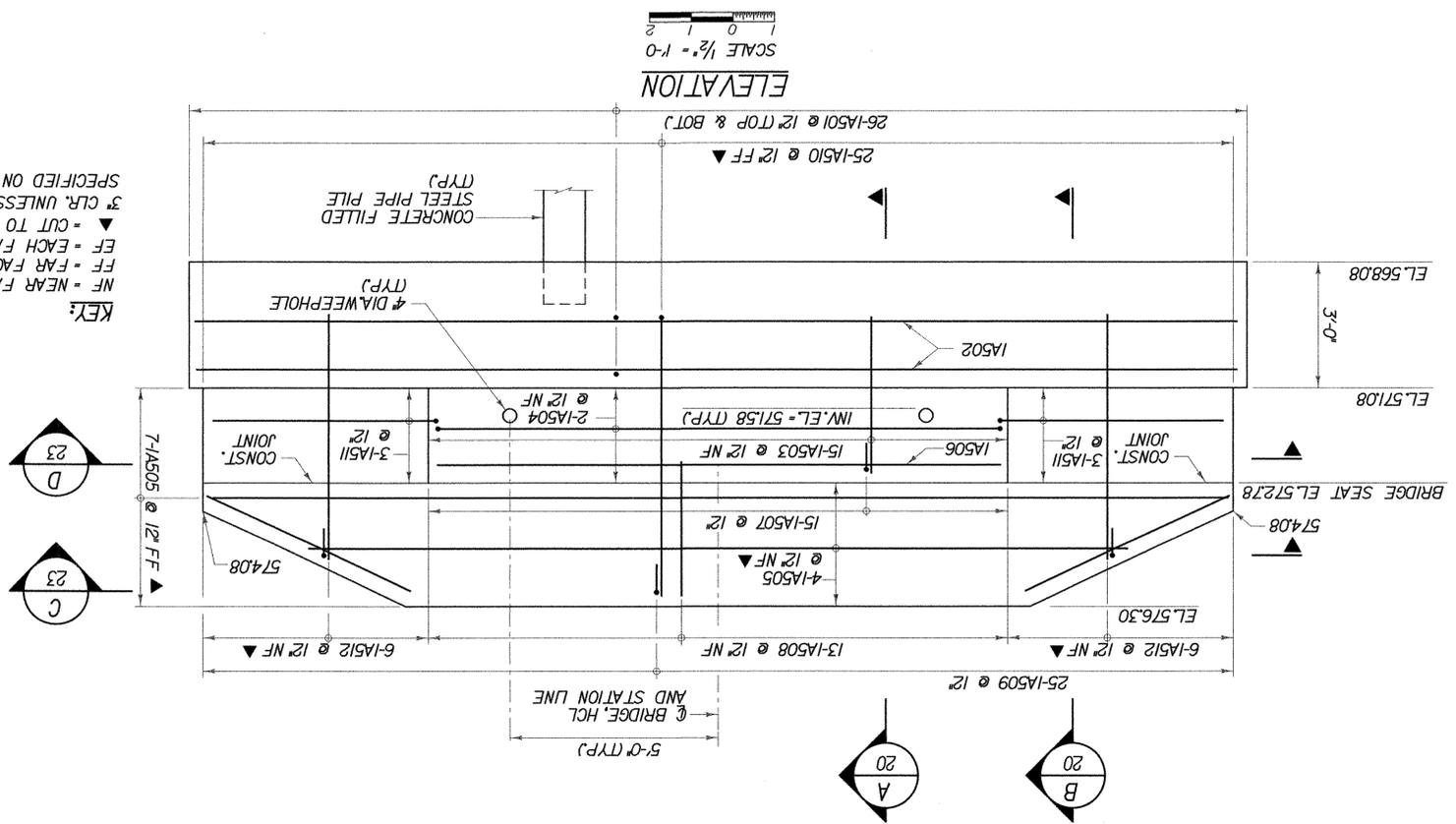
TABLE 2
 SAMPLE MATERIAL PROPORTIONS

Wallingford Bridge over Otter Creek
 SUBSURFACE LOG
 HOLE NUMBER B-5
 DATE: 12/29/2005
 PROJECT NUMBER: 152188202

PROJECT NAME: WALLINGFORD
 PROJECT NUMBER: STP ST WALK(14)
 FILE NAME: \$FILES\$
 PROJECT MANAGER: SUSAN SCRIBNER
 DESIGNED BY: L. HARDEN
 BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 DRAWN BY: W. WEATHERBY
 CHECKED BY: P. HALSTEAD
 SHEET 20 OF 26
 PLOT DATE: 1/9/2009



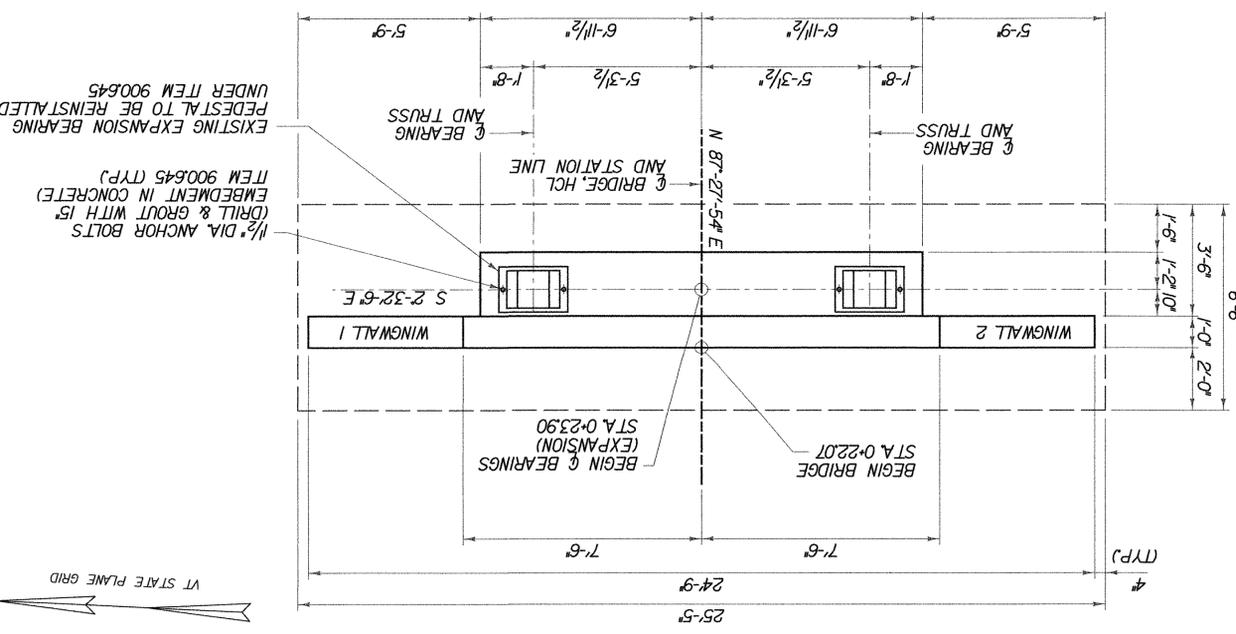
ABUTMENT 1 PLAN AND ELEVATION



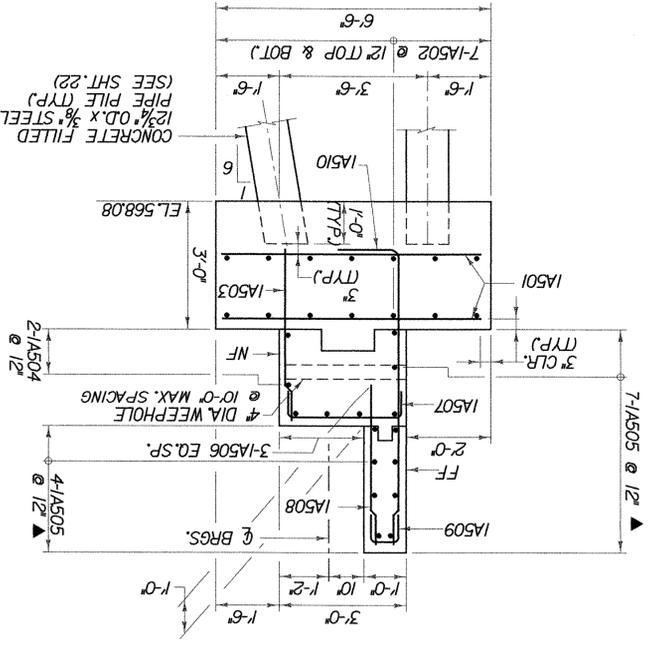
KEY:
 NF - NEAR FACE
 FF - FAR FACE
 EF - EACH FACE
 ▼ - CUT TO FIT IN FIELD
 3 CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

NOTES:
 1. THE 1A506 REINFORCEMENT BARS SHALL BE PLACED TO AVOID ANCHOR ROD PLACEMENT.

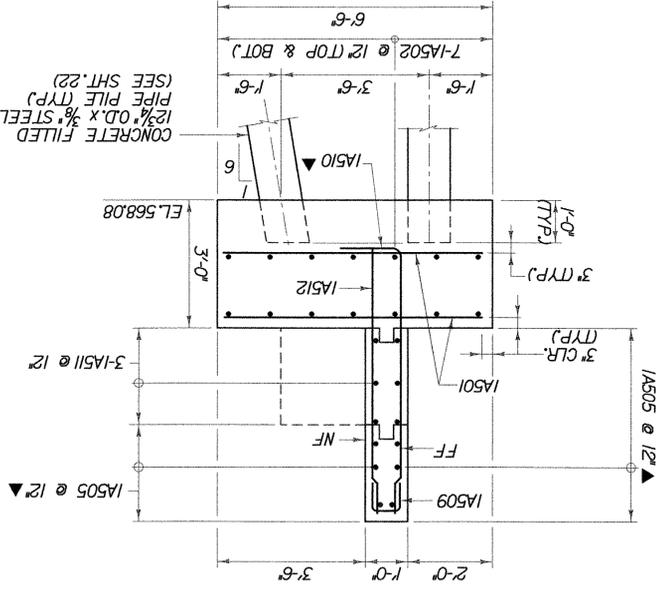
PLAN
 SCALE 3/8" = 1'-0"



A TYPICAL ABUTMENT SECTION
 SCALE 1/2" = 1'-0"



B TYPICAL WINGWALL SECTION
 SCALE 1/2" = 1'-0"



PROJECT NAME: WALLINGFORD
 PROJECT NUMBER: STP ST WALK(14)
 FILE NAME: \$FILES\$
 PROJECT MANAGER: SUSAN SCRIBNER
 DRAWN BY: W. WEATHERBY
 CHECKED BY: P. HALSTEAD
 BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 SHEET 21 OF 26

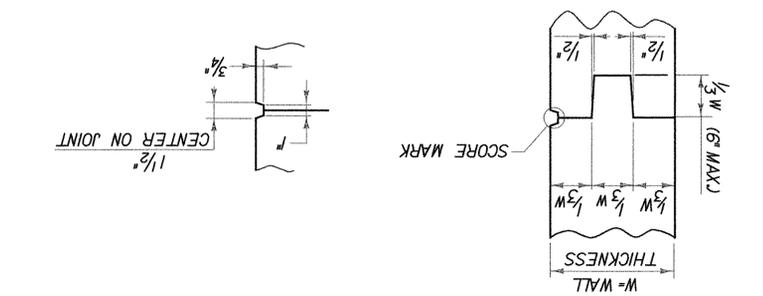


5-4W509 @ 12" FF LAPPED TO 4W504
 4-4W506 @ 12" NF & 4-4W506 @ 12" FF LAPPED TO 2A505 & 4W504
 4-4W505 @ 12" FF LAPPED TO 2A504 & 4W504
 5-3W509 @ 12" FF LAPPED TO 3W504
 4-3W506 @ 12" NF & 4-3W506 @ 12" FF LAPPED TO 2A505 & 3W504
 4-3W505 @ 12" FF LAPPED TO 2A504 & 3W504
 (SEE SHT.23 FOR DETAILS)
 CORNER BARS NOT SHOWN FOR CLARITY.

KEY:
 NF - NEAR FACE
 FF - FAR FACE
 EF - EACH FACE
 3" CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 ▲ - CUT TO FIT IN FIELD

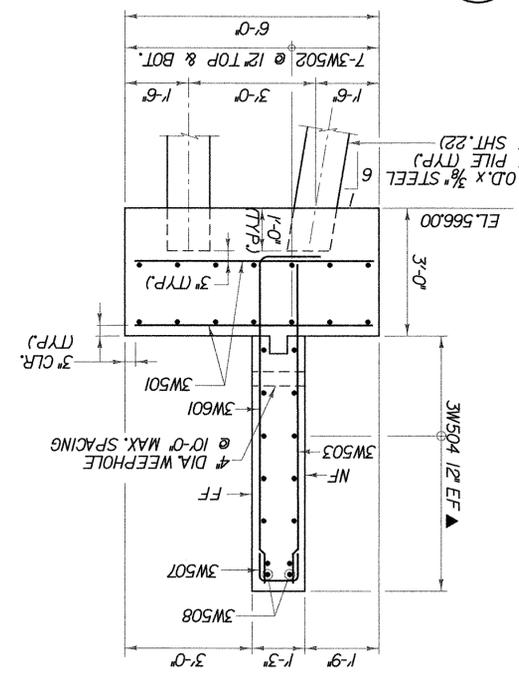
SCORE MARK DETAIL
 1
 21
 (NOT TO SCALE)

TYPICAL CONCRETE CONSTRUCTION JOINT
 (NOT TO SCALE)

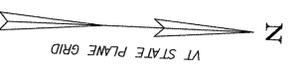
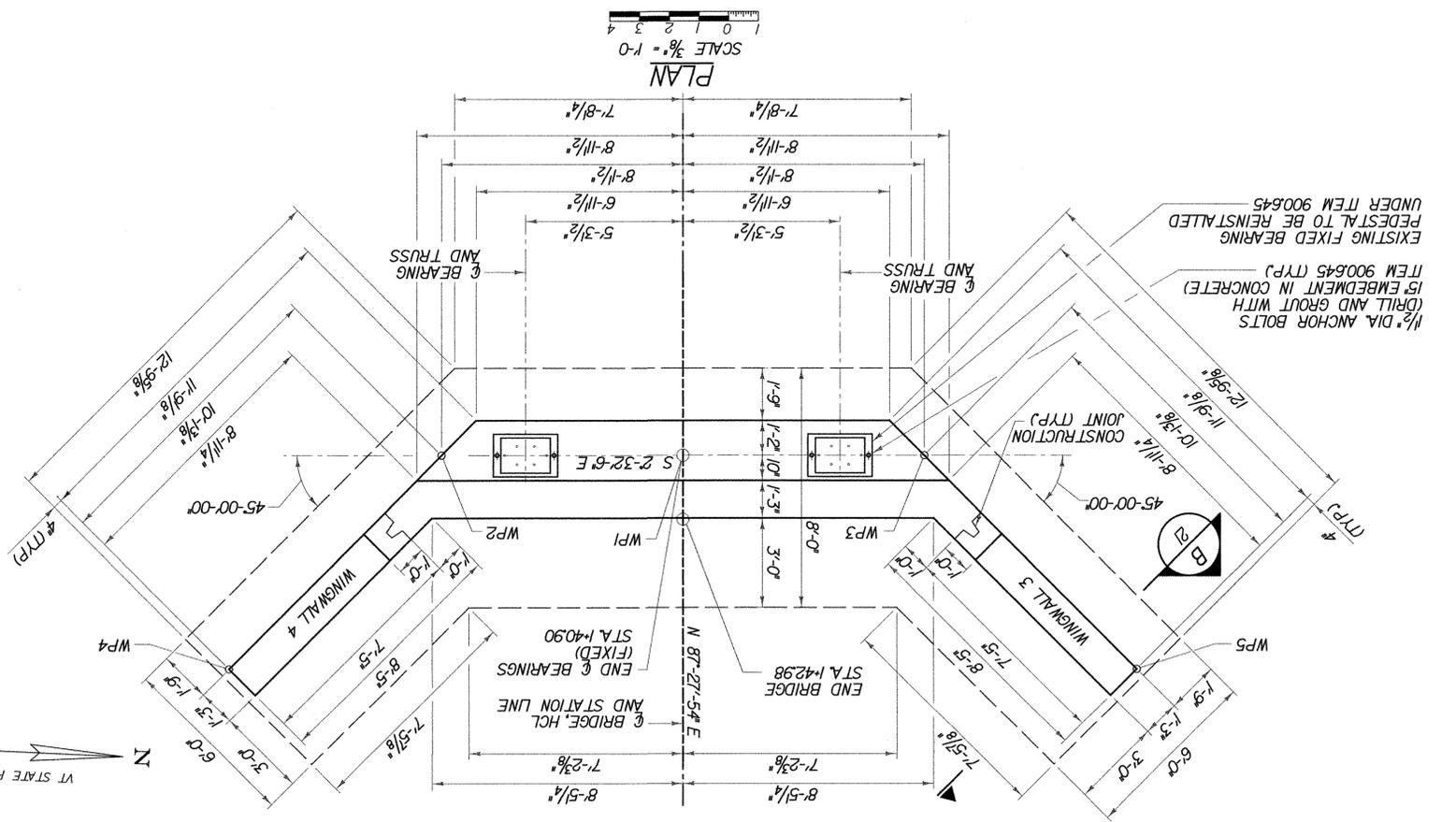
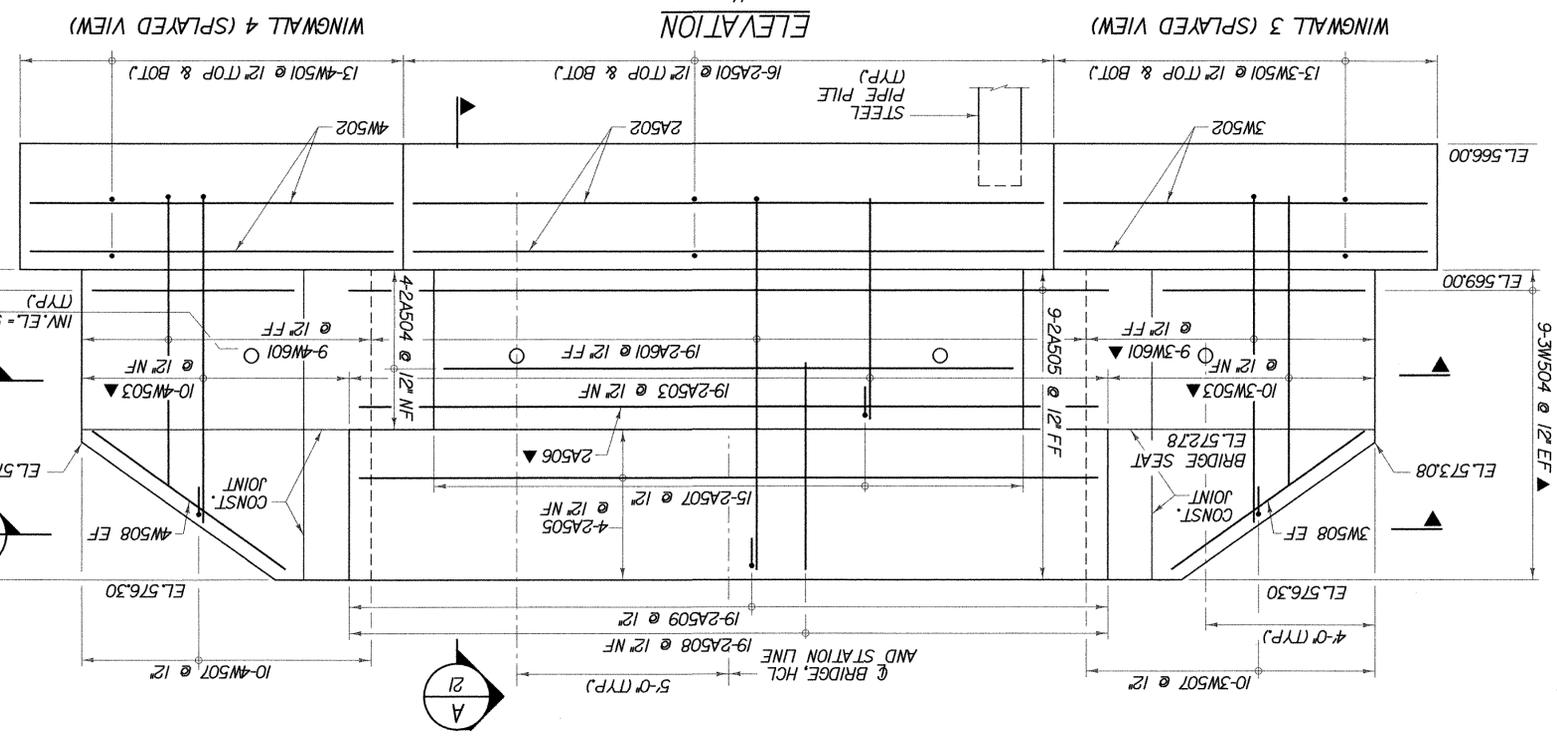
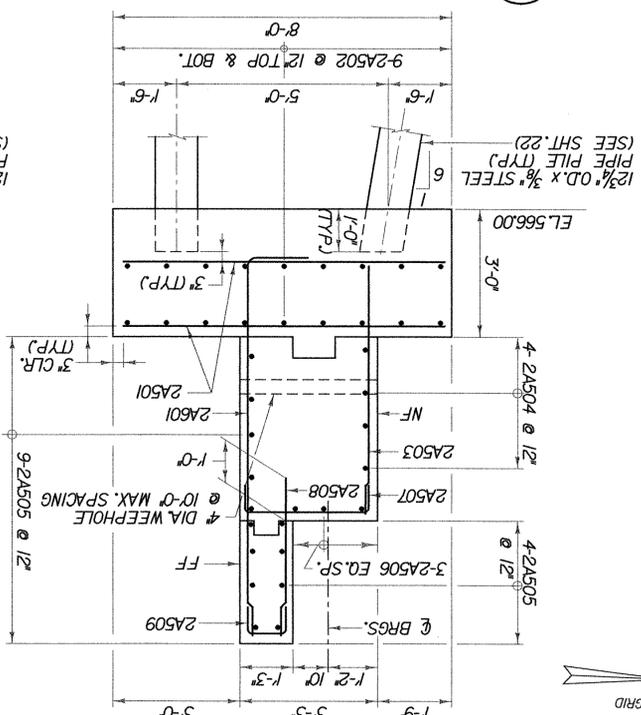


NOTES:
 1. THE 2A506 REINFORCEMENT BARS SHALL BE PLACED TO AVOID ANCHOR ROD PLACEMENT.

TYPICAL WINGWALL SECTION
 B
 SCALE 1/2" = 1'-0"
 (WINGWALL 3 SHOWN, WINGWALL 4 SIMILAR)



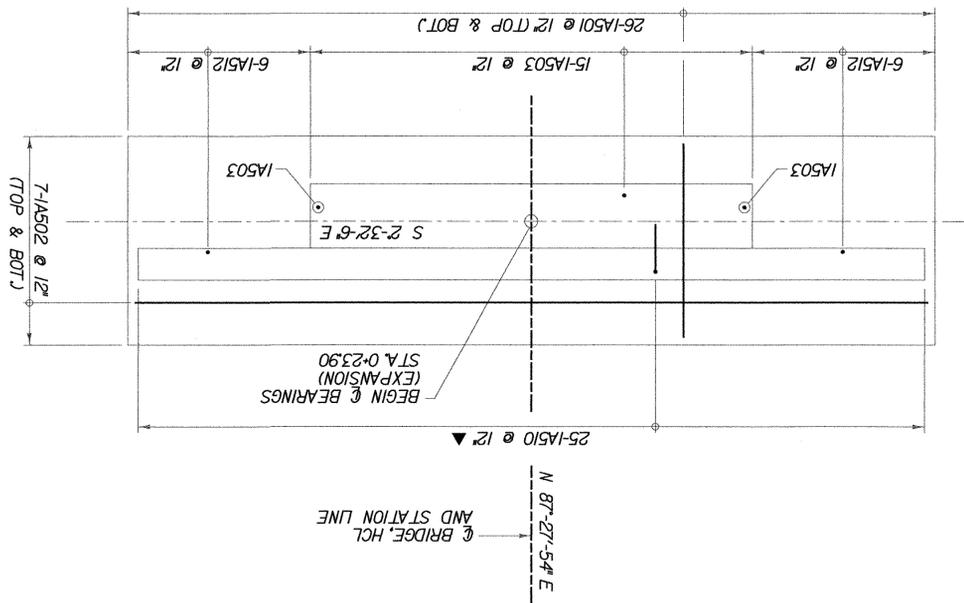
TYPICAL ABUTMENT SECTION
 A
 SCALE 1/2" = 1'-0"



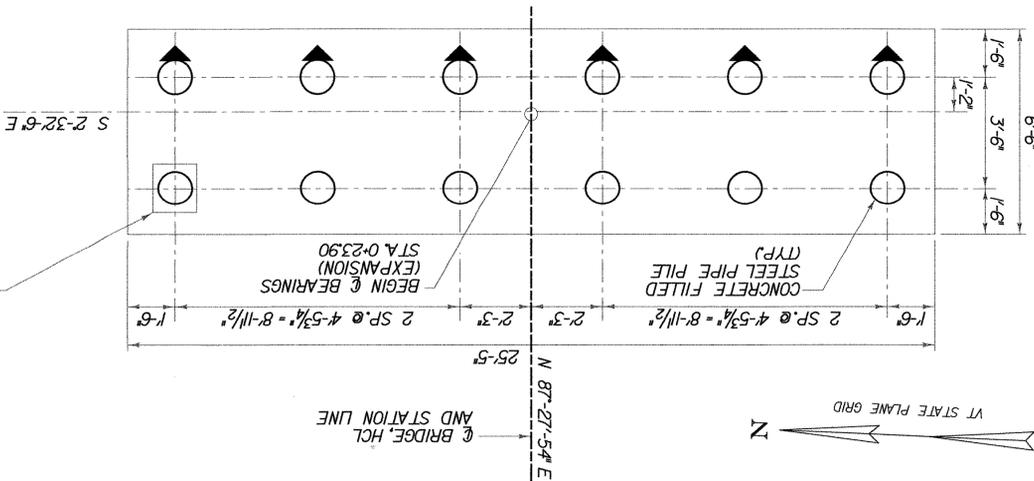
KEY:

- ITEM 900640 SPECIAL PROVISION (STEEL PILING, CONCRETE-FILLED) 12 3/4" O.D. X 3/8" PIPE
- 12 3/4" O.D. X 3/8" STEEL PIPE PILING FILLED WITH HIGH PERFORMANCE CONCRETE, CLASS B AND DRIVEN TO:
- 230 KIPS ULTIMATE CAPACITY (ABUTMENT 1)
- 189 KIPS ULTIMATE CAPACITY (ABUTMENT 2)
- ESTIMATED LENGTH EQUALS 51 FEET (ABUTMENT 1)
- ESTIMATED LENGTH EQUALS 53 FEET (ABUTMENT 2)
- ITEM 900640 SPECIAL PROVISION (STEEL PILING, CONCRETE-FILLED) 12 3/4" O.D. X 3/8" PIPE
- 12 3/4" O.D. X 3/8" STEEL PIPE PILING FILLED WITH HIGH PERFORMANCE CONCRETE, CLASS B AND DRIVEN TO:
- 230 KIPS ULTIMATE CAPACITY (ABUTMENT 1)
- 189 KIPS ULTIMATE CAPACITY (ABUTMENT 2)
- ESTIMATED LENGTH EQUALS 51 FEET (ABUTMENT 1)
- ESTIMATED LENGTH EQUALS 53 FEET (ABUTMENT 2)

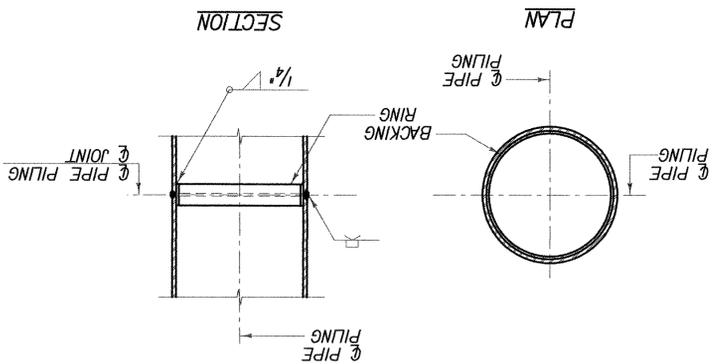
ABUTMENT 1 FOOTING REINFORCEMENT PLAN



ABUTMENT 1 PILE LAYOUT



PIPE PILE SPICE DETAIL

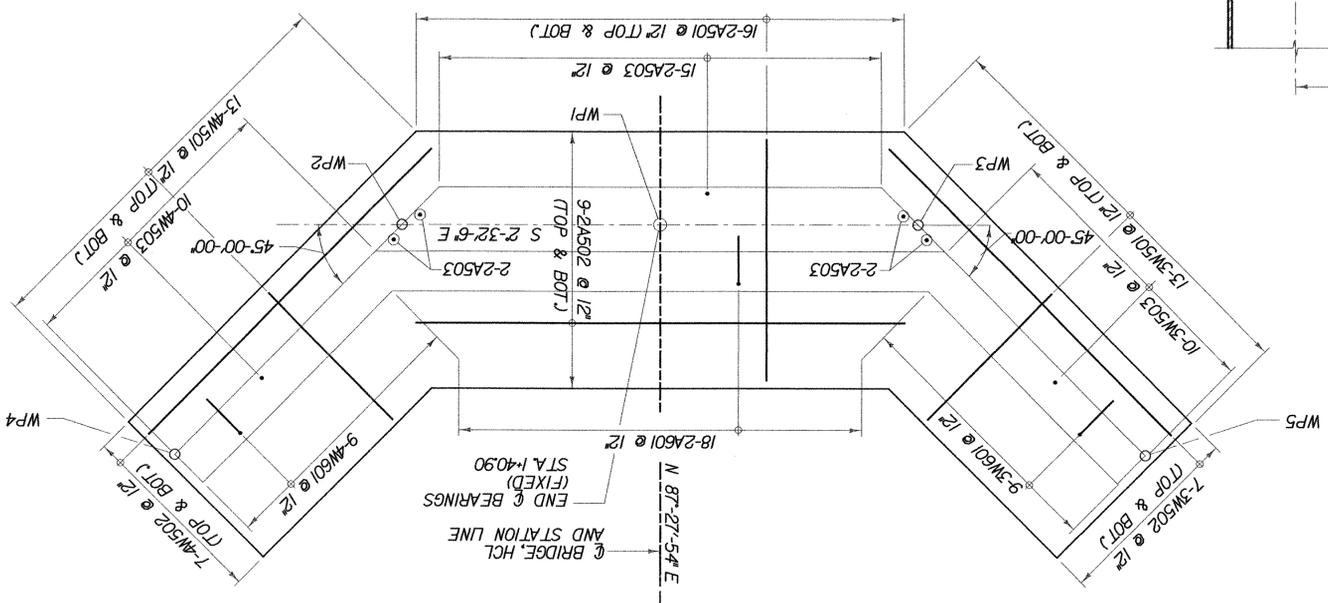


SECTION

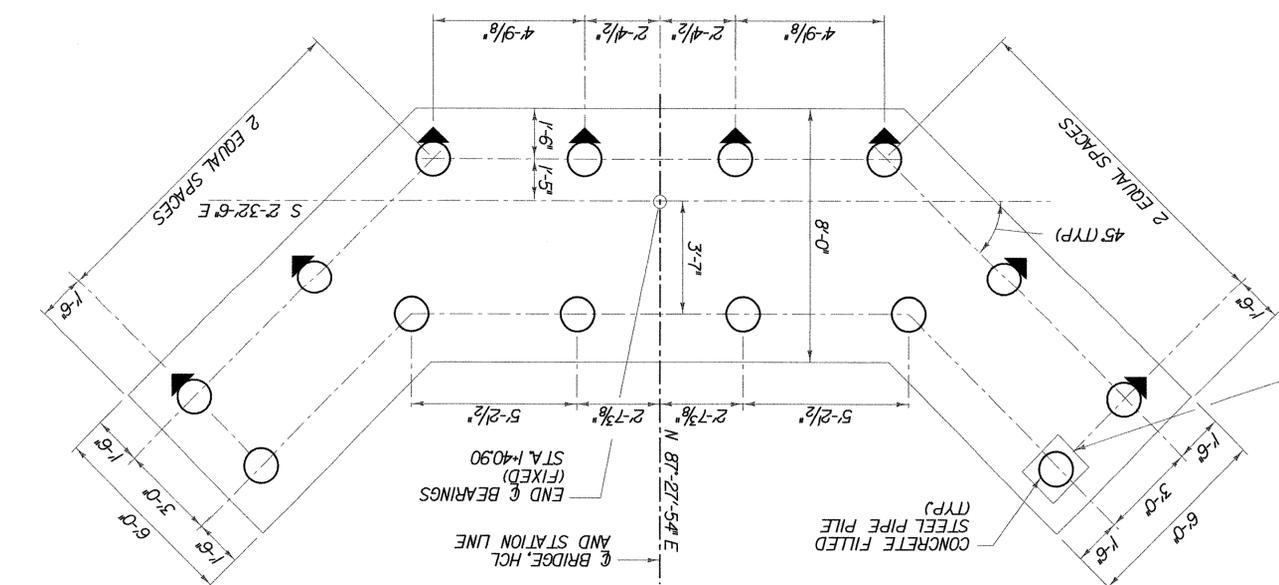
PLAN

NF - NEAR FACE
 FF - FAR FACE
 EF - EACH FACE
 ▼ - CUT TO FIT IN FIELD
 3 CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

ABUTMENT 2 FOOTING REINFORCEMENT PLAN



ABUTMENT 2 PILE LAYOUT



SCALE 3/8" = 1'-0"

SCALE 3/8" = 1'-0"

SCALE 3/8" = 1'-0"

SCALE 1 1/2" = 1'-0"



BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 DESIGNED BY: L. HARDEN
 PROJECT MANAGER: SUSAN SCRIBNER
 DRAWN BY: W. WEATHERBY
 CHECKED BY: P. HALSTEAD
 SHEET 22 OF 26

FILE NAME: \$FILES\$
 PROJECT NUMBER: STP ST WALK(14)
 PROJECT NAME: WALLINGFORD

ABUTMENT PILE LAYOUT &
 FOOTING REINFORCEMENT PLAN

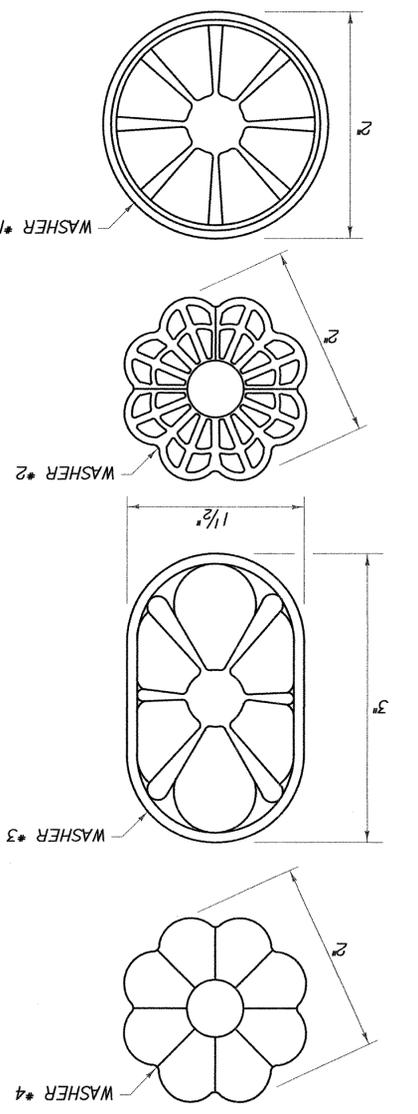
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 DESIGNED BY: L. HARDEN
 PROJECT MANAGER: SUSAN SCRIBNER
 DRAWN BY: W. WEATHERBY
 CHECKED BY: P. HALSTEAD
 SHEET 24 OF 26

PROJECT NAME: WALLINGFORD
 PROJECT NUMBER: STP ST WALK(14)

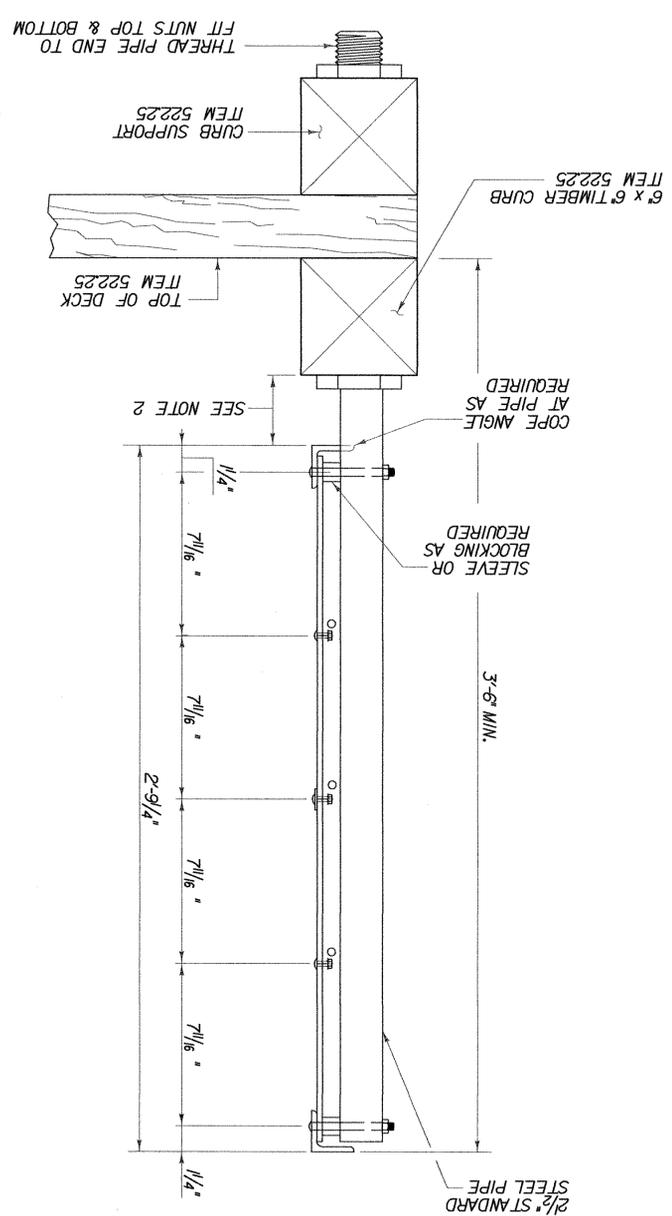


BRIDGE RAILING DETAILS

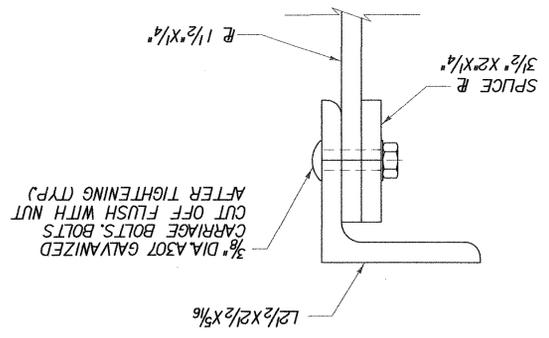
ORNAMENTAL WASHERS FOR BRIDGE RAIL (NOT TO SCALE)



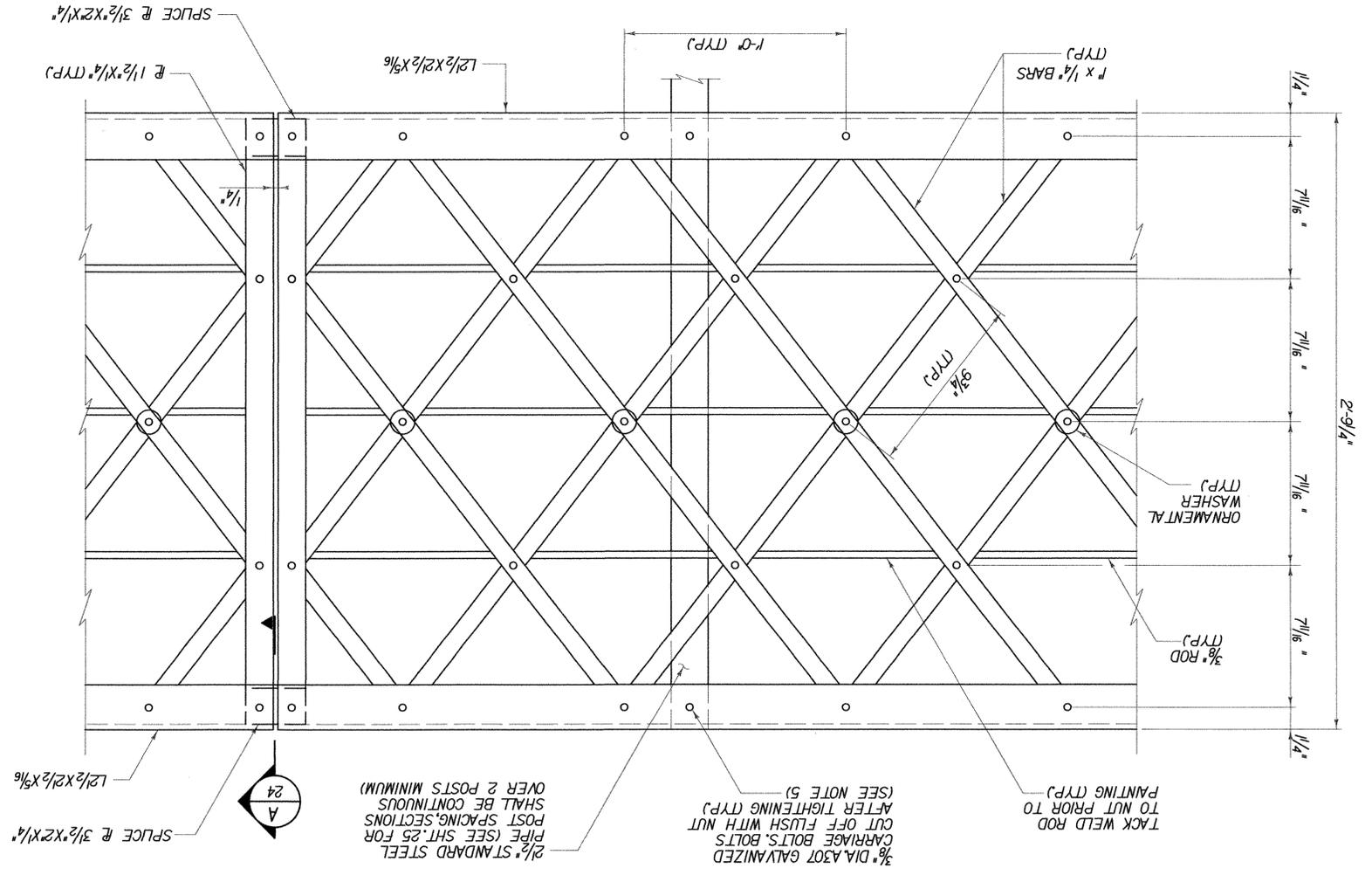
TYPICAL BRIDGE RAILING SECTION
 SCALE 3" = 1'-0"



A RAILING CONNECTION PLATE
 (NOT TO SCALE)



BRIDGE RAILING ELEVATION
 SCALE 3" = 1'-0"



- NOTES:
1. ALL MATERIAL TO BE ASHTO M270 GRADE 36. ALL LABOR AND MATERIALS REQUIRED FOR FABRICATION AND ERECTION OF BRIDGE RAILING SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 900640 SPECIAL PROVISION (BRIDGE RAILING STEEL/PEDESTRIAN).
 2. THE VERTICAL OPENING BELOW THE BOTTOM ANGLE SHALL NOT EXCEED 6".
 3. ORNAMENTAL WASHERS SHALL BE CAST IRON AND COST INCLUDED UNDER ITEM 900640 SPECIAL PROVISION (BRIDGE RAILING STEEL/PEDESTRIAN).
 4. ONE WASHER STYLE WILL BE CHOSEN BY THE TOWN AND USED THROUGHOUT THE RAILING.
 5. AFTER BOLTS ARE CUT OFF, THE CUT ENDS SHALL BE TREATED WITH A MANUFACTURER'S RECOMMENDED COLD GALVANIZING, INCLUDED FOR PAYMENT UNDER ITEM 900640 SPECIAL PROVISION (BRIDGE RAILING STEEL/PEDESTRIAN).

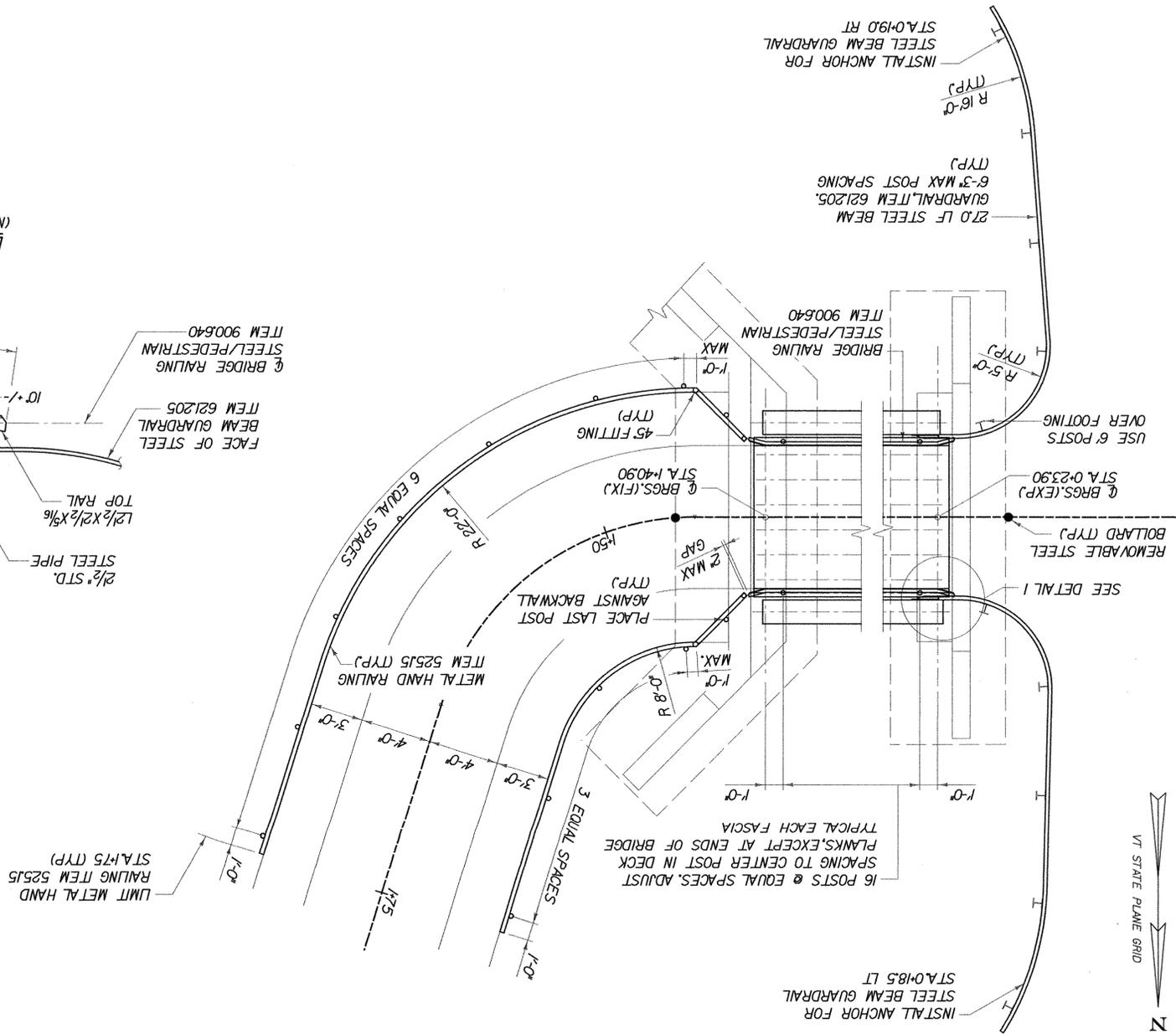
3/8" DIA. A307 GALVANIZED CARRIAGE BOLTS, BOLTS CUT OFF FLUSH WITH NUT AFTER TIGHTENING (TYP)
 PAINTING (TYP)
 TACK WELD ROD TO NUT PRIOR TO TIGHTENING (TYP)
 2 1/2" STANDARD STEEL PIPE (SEE SHT. 25 FOR POST SPACING SECTIONS)
 3/2" x 2" x 1/4" SPUCE # 3/2" x 2" x 1/4" OVER 2 POSTS MINIMUM)
 SHALL BE CONTINUOUS AFTER TIGHTENING (TYP)
 (SEE NOTE 5)

PROJECT NAME: WALLINGFORD
 PROJECT NUMBER: STP ST WALK(14)
 FILE NAME: #FILES#
 PROJECT MANAGER: SUSAN SCRIBNER
 DESIGNED BY: L. HARDEN
 BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
 DRAWN BY: W. WEATHERSBY
 CHECKED BY: P. HALSTEAD
 PLOT DATE: 1/9/2009
 SHEET 25 OF 26

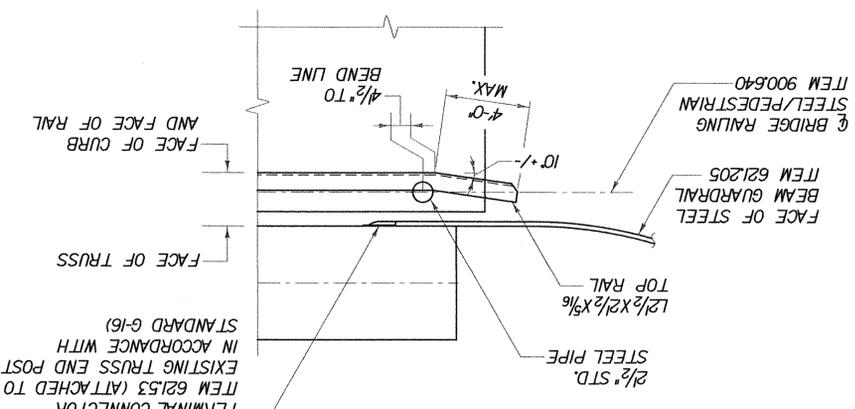


RAIL LAYOUT PLAN AND DETAILS

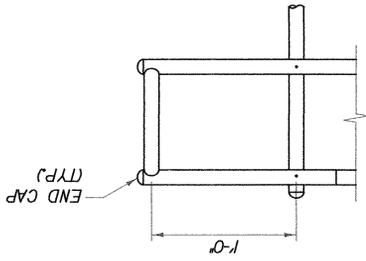
RAIL LAYOUT PLAN
 SCALE 1/4" = 1'-0"



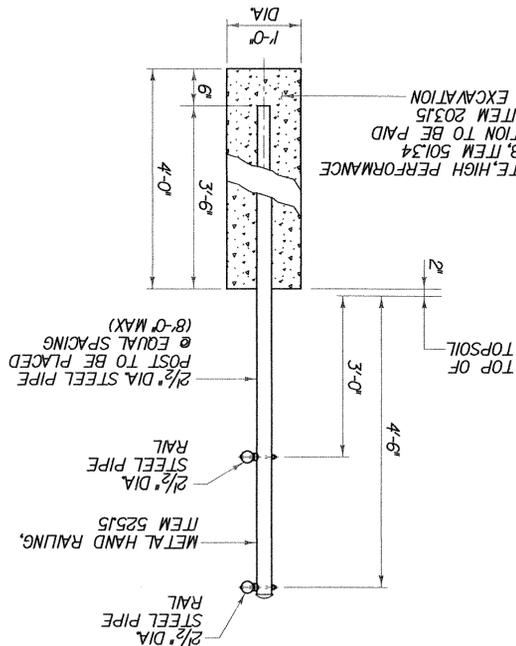
DETAIL
 (NOT TO SCALE)



METAL HAND RAILING END ELEVATION
 (NOT TO SCALE)



METAL HAND RAILING SECTION
 (NOT TO SCALE)



CONCRETE, HIGH PERFORMANCE
 CLASS B, ITEM 50134
 EXCAVATION TO BE PAID
 UNDER ITEM 20315
 COMMON EXCAVATION



State of Vermont
FDD/Structures Design Section
One National Life Drive
Montpelier, VT 05633-5001
www.aot.state.vt.us

[phone] 802-828-2621
[fax] 802-828-3566
[tel] 800-253-0191

Agency of Transportation

May 29, 2009

Renaud Bros , Inc
283 Fort Bridgeman Road #2
Vernon, VT 05354

Project Name: Wallingford STP WALK(14)

The following Structural Steel shop drawing details for the above project (General Contractor – Renaud Bros , Inc) have been reviewed and are being returned herewith

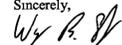
Truss 1 Shops: These drawings are “Approved as Noted”. Note the comments in red.

Truss 2 Drawings: These drawings are “Approved as Noted”. Note the comments in red.

Pedestrian Railing Drawings: These drawings are to be “Resubmitted”. The drawings shall be reconsidered and resubmitted for approval. Also note that there is a required welding procedure.

You must provide notice to our fabrication inspector, Jeff Clark, as to the date fabrication represented by these drawings will begin. That notice must be received and acknowledged at least seven days prior to that date, as per Specification 506 03. Jeff may be contacted by phone at (802)828-0044 or email at jeff.clark@state.vt.us. Any material fabricated prior to the notification date is subject to rejection without further cause.

Sincerely,


Wayne Symonds
Project Manager

Attachments

cc [x] Resident Engineer – Eric Foster
[x] Shop Inspector – Jeff Clark
[x] Contractor – Renaud
[] Sub-Contractor
[x] Design Consultant – CHA
[x] Construction Division – letter only
[x] Materials & Research Section (C&IA Unit) – letter only
[x] Files



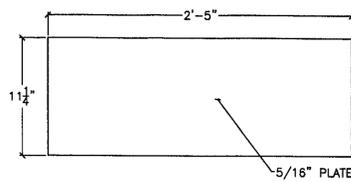
GENERAL NOTES:

- * ALL MEASUREMENTS TO BE VERIFIED BEFORE FABRICATION OF INDIVIDUAL MEMBERS BEGINS
- * ALL HOLES DRILLED IN NEW FABRICATED STEEL, TO MATCH EXISTING STEEL MEMBERS
- * ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M-270 GRADE 50
- * UNLESS OTHERWISE NOTED, ALL HOLES SHALL BE DRILLED TO $1\frac{3}{8}$ " DIA
- * DIMENSIONS LESS THAN 25'-0" +/- $\frac{1}{8}$ "
- * DIMENSIONS GREATER THAN 25'-0" +/- $\frac{1}{8}$ "
- * SUPPORTING DOCUMENTATION TO DRAWINGS SEE BILL OF MATERIALS TRUSS TYPE 1 & 2
- * PAINT SYSTEM TO BE USED.
- * ALL PARTS TO BE PRIMED PRIOR TO INSTALLATION.

**NOTE: FOR FUTURE SUBMITTALS
PLEASE PROVIDE BILL OF
MATERIALS, INCLUDING
FASTENERS, ON THE SHEETS
WITH DETAILS.**

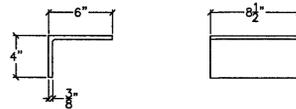
BEARING PEDESTAL:

**NOTE: HORIZONTAL LATERAL BRACING /
FLOOR BEAM CONNECTION
PLATES, SCHEDULED FOR
REPLACEMENT AT L0, L2, L4, L6 &
L8 ARE NOT INCLUDED IN THIS
SET.**



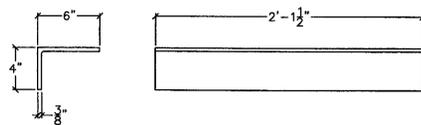
1BP01

3" = 1'-0"



1BP03-ANGLE

3" = 1'-0"



1BP02-ANGLE

3" = 1'-0"



1BP04-ANGLE

3" = 1'-0"

RECEIVED
CK'D BY CHM OK'D BY _____
MAY 11 2009

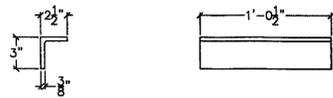
APPROVED As Noted
BY WY DATE 5/28/09

Revised Elec. Construction
Part 100000 - Steel Deck
(802) 257-7383

TITLE: Wallingford Bridge Rehab
LOCATION: Wallingford, VT
OWNER: VT Dept. of Transportation
DRAWN BY: JED JOB CONTACT: Erick Foster STATE OF VT
CHECKED BY: JED/AD DATE: 4.30.09

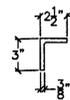
DRAWING NO. T-1
SHEET NO. 1 of 17

BEARING PEDESTAL:



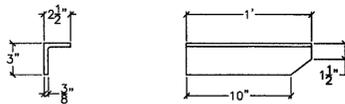
1BP05-ANGLE

3" = 1'-0"



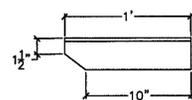
1BP06R-ANGLE

3" = 1'-0"



1BP06R-ANGLE

3" = 1'-0"



DIMENSIONS TBD

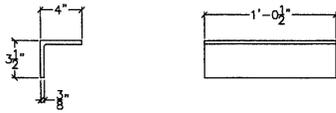
1BP07-PLATE

3" = 1'-0"

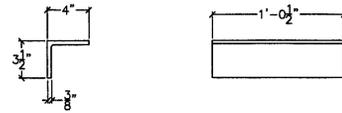
RECEIVED
 OK'D BY CHM OK'D BY _____
 MAY 1 1 2011
 R. GENT _____ APPROVED ✓
 BY WJ DATE 5/1/11

Revised Steel Construction For Vermont State VT 0264 (802) 257-7383	
TITLE Wallingford Bridge Rehab Wallingford, VT	DRAWING TITLE Drawings Truss Type 1 Drawings
DRAWN BY <u>sed</u>	JOB CONTACT <u>Erick Foster State of VT</u>
CHECKED BY <u>ED/AD</u>	DATE <u>4 30 09</u>
DRAWING NO. T-1	SHEET NO. 2 of 17

BEARING PEDESTAL:



1BA01-ANGLE
3" = 1'-0"

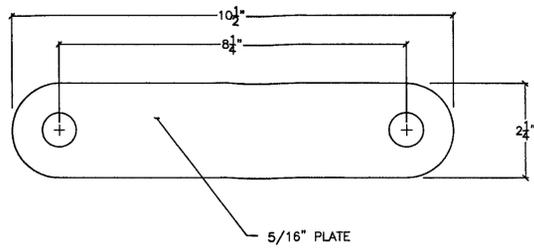


1BA02-ANGLE
3" = 1'-0"

RECEIVED
 CK'D BY: CMA OK'D BY: _____
 MAY 11 2007
 R. C. ... APPROVED: [Signature]
 BY: WJ DATE: 5/11/07

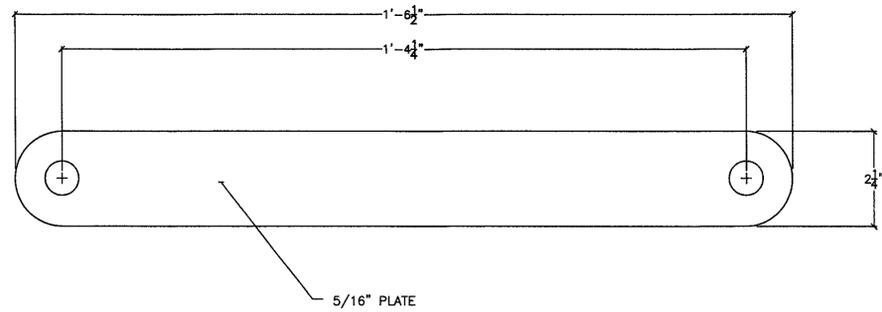
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 1: Drawings DRAWN BY: JED CHECKED BY: JED/AD JOB CONTACT: Erick Foster State of VT DATE: 4 30 09	Renewed Bros. Construction Phone: (802) 257-7383
DRAWING NO.: T-1 SHEET NO.: 3 OF 17	

LATTICE:



1LP01-PLATE

1'-0" = 1'-0"



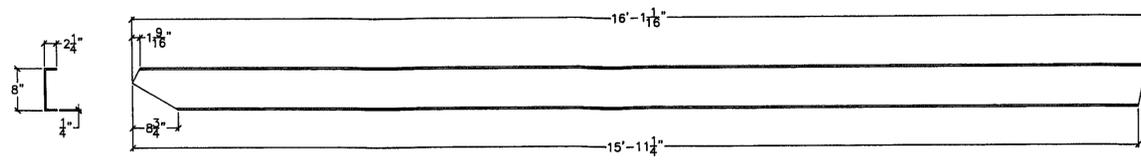
1LP02-PLATE

1'-0" = 1'-0"

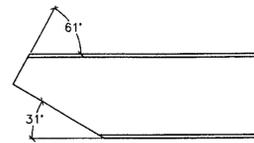
RECEIVED
OK'D BY CWA OK'D BY _____
MAY 11 2009
BY WY APPROVED ✓
DATE 5/11/09

REINFORCING CONSTRUCTION REINFORCING WORK (802) 257-7383	
Wallingford Bridge Rehab Wallingford, VT	
DRAWING TITLE	Drawings Truss Type 1 Drawings
DRAWN BY	JED
CHECKED BY	ED/AD
DATE	4 30 09
JOB CONTACT	Enck Foster State of VT
DRWG NO.	T-1
SHEET NO.	4 OF 17

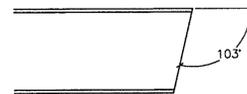
UPPER CHORD:



1LOU1-CHANNEL
1-1/2" = 1'-0"



1LOU1-END DETAIL
3" = 1'-0"

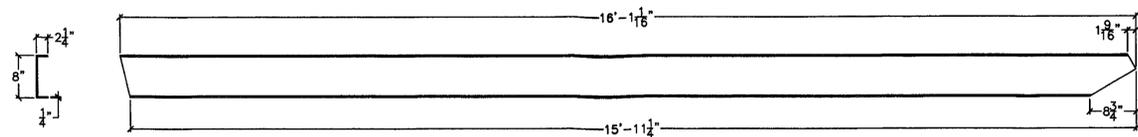


1LOU1-END DETAIL
3" = 1'-0"

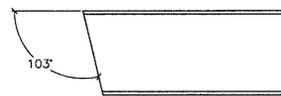
RECEIVED
 CK'D BY: CMA OK'D BY: _____
 MAY 11 2010
 BY: WJ/SJ APPROVED: [Signature]
 DATE: 5/11/10

Renewal Base Construction (802) 257-7283	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 1. Drawings DRAWN BY: JED JOB CONTACT: Eric Foster State of VT CHECKED BY: JED/AD DATE: 4 30 09	DRAWING NO: T-1 SHEET NO: 5 of 17

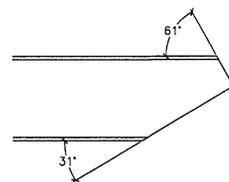
UPPER CHORD:



1L8U7-CHANNEL
1-1/2" = 1'-0"



1L8U7-END DETAIL
3" = 1'-0"

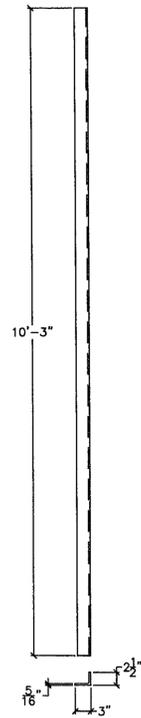


1L8U7-END DETAIL
3" = 1'-0"

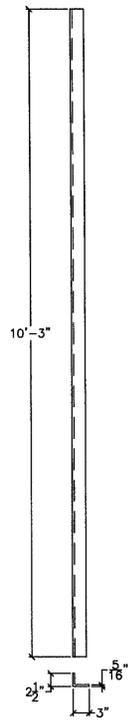
RECEIVED
MAY 11 2009
APPROVED ✓
BY *WJ* DATE 5/12/09

PROJECT: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 1 Drawings DRAWN BY: JED JOB CONTACT: Erick Foster State of VT CHECKED BY: ED/AD DATE: 4 30 09	PROJ. NO.: DRAWING NO.: SHEET NO.: T-1 6 OF 17
---	---

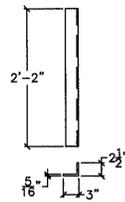
UPRIGHT MEMBERS:



1U2L2L-ANGLE
1-1/2" = 1'-0"



1U2L2R-ANGLE
1-1/2" = 1'-0"

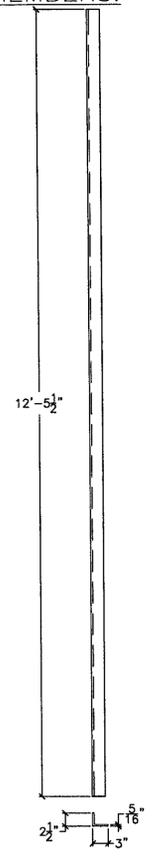


1U3L3L-ANGLE
1-1/2" = 1'-0"

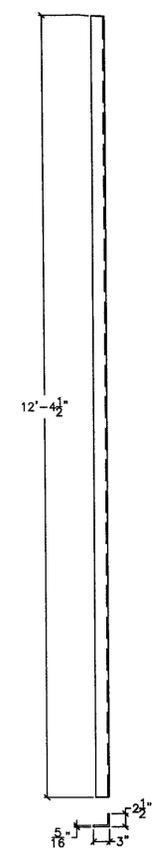
RECEIVED
 OK'D BY CWA OK'D BY _____
 MAY 1 1 2009
 R. J. ... APPROVED ✓
 BY WY SJ DATE 5/1/09

FILE	Wallingford Bridge Rehab	Renard Bros. Construction Renard, VT (802) 257-7385
LOCATION	Wallingford, VT	
DRAWING TITLE	Drawings Truss Type 1 Drawings	
DRAWN BY	JED	JOB CONTACT
CHECKED BY	ED/AD	DATE
DRAWING NO.	T-1	
SHEET NO.	7 OF 17	

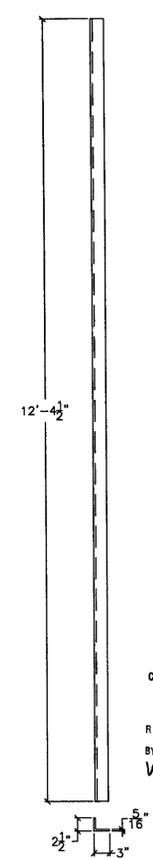
UPRIGHT MEMBERS:



1U3L3R-ANGLE
1-1/2" = 1'-0"



1U4L4L-ANGLE
1-1/2" = 1'-0"



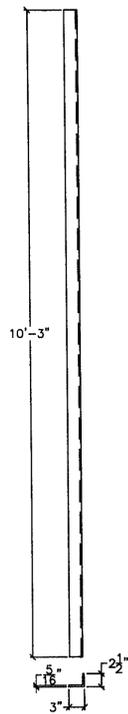
1U4L4R-ANGLE
1-1/2" = 1'-0"

RECEIVED
 CK'D BY: CHA OK'D BY: _____
 MAY 1 12:1
 R. J. ... APPROVED ✓
 BY: WJ DATE: 5/1/09

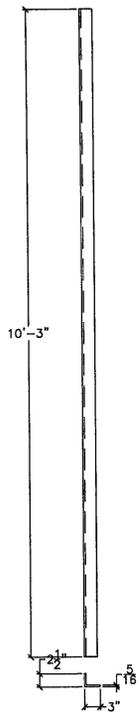
PREPARED BY: <u>CHA</u> CHECKED BY: <u>ED/AD</u> DATE: <u>4 30 09</u>	
TITLE: <u>Wallingford Bridge Rehab</u> LOCATION: <u>Wallingford, VT</u>	DRAWING TITLE: <u>Drawings Truss Type 1 Drawings</u> DRAWN BY: <u>LED</u> JOB CONTACT: <u>Ersk Foster State of VT</u> CHECKED BY: <u>ED/AD</u> DATE: <u>4 30 09</u>
DRAWING NO.	T-1
SHEET NO.	8 of 17

PREPARED BY: CHA
 CHECKED BY: _____
 DATE: _____

UPRIGHT MEMBERS:



1U6L6L-ANGLE
1-1/2" = 1'-0"



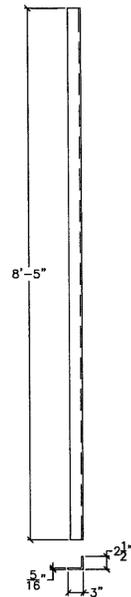
1U6L6R-ANGLE
1-1/2" = 1'-0"

RECEIVED
 OK'D BY CH OK'D BY _____
 MAY 11 2009
 BY WJ DATE 5/14/09

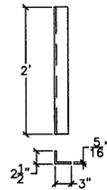
PREPARED BY: <u>CH</u> CHECKED BY: <u>ED/AD</u> DATE: <u>4 30 09</u>	
TITLE: <u>Wallingford Bridge Rehab</u> LOCATION: <u>Wallingford, VT</u>	DRAWING NO.: <u>T-1</u>
DRAWING TITLE: <u>Drawings Truss Type 1 Drawings</u> DRAWN BY: <u>ED</u>	SHEET NO.: <u>9 of 17</u>
JOB CONTRACT: <u>Erick Foster State of VT</u> CHECKED BY: <u>ED/AD</u>	

PREPARED BY: CH
 CHECKED BY: ED/AD
 DATE: 4 30 09

UPRIGHT MEMBERS:



1U7L7L-ANGLE
1-1/2" = 1'-0"

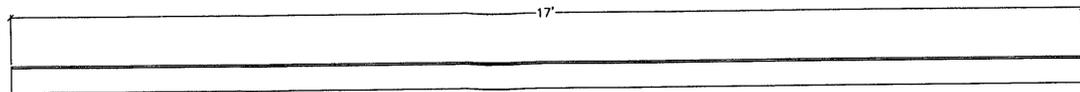
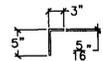


1U7L7R-ANGLE
1-1/2" = 1'-0"

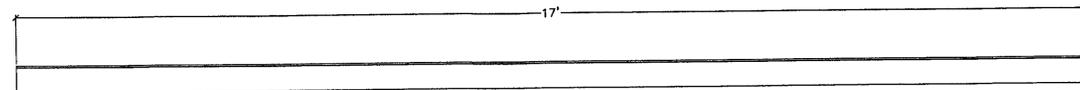
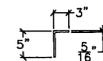
RECEIVED
 OK'D BY CWA OK'D BY _____
 MAY 11 2009
 R BY WJ/SJ APPROVED BY _____
 DATE 5/11/09

Revised Egan Construction (802) 257-7393	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING TITLE: Drawings Truss Type 1 Drawings DRAWN BY: JED JOB CONTACT: Erik Foster State of VT CHECKED BY: JED/AD DATE: 4 30 09
DRAWING NO.: T-1	SHEET NO.: 10 OF 17

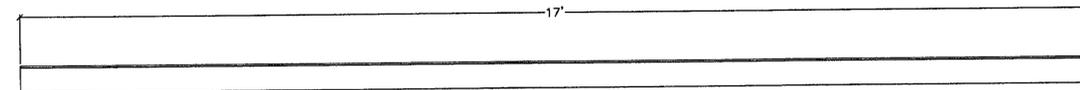
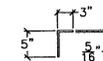
UPRIGHT MEMBERS:



1DM01-ANGLE
1-1/2" = 1'-0"



1DM02-ANGLE
1-1/2" = 1'-0"

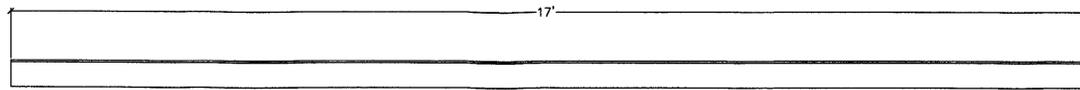
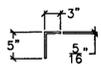


1DM03-ANGLE
1-1/2" = 1'-0"

RECEIVED
CHK'D BY: CNA OK'D BY: _____
MAY 11 2009
BY: WY Sp APPROVED: _____
DATE: 5/11/09

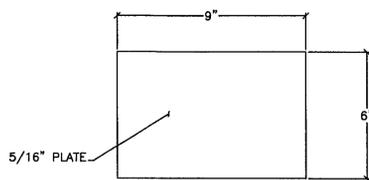
Renewal Plus Construction For Bridge Road, Wino, VT 05664 (802) 257-7503	
TITLE: <u>Wallingford Bridge Rehab</u> LOCATION: <u>Wallingford, VT</u>	DRAWING TITLE: <u>Drawings Truss Type 1 Drawings</u> DRAWN BY: <u>JED</u> JOB CONTACT: <u>Enck Foster State of VT</u> CHECKED BY: <u>JED/AD</u> DATE: <u>4 30 09</u>
DRAWING NO.	T-1
SHEET NO.	11 OF 17

UPRIGHT MEMBERS:



1DM04-ANGLE

1-1/2" = 1'-0"



1DM05-PLATE

3" = 1'-0"

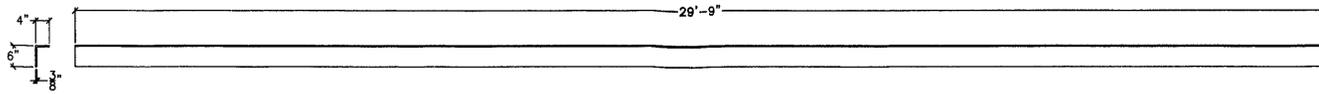
- plates similar for U362, U364, U564 and U566

RECEIVED
 OK'D BY RCM OK'D BY _____

MAY 11 2009
 APPROVED As noted
 BY WJ DATE 5/11/09

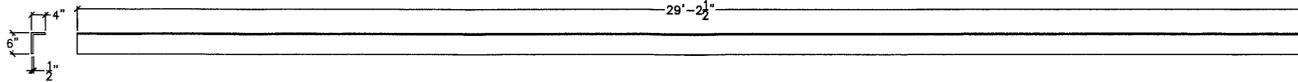
Renew Bros. Construction 1000 W. Main St. (802) 257-7385	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING TITLE: Drawings Truss Type 1. Drawings DRAWN BY: JED JOB CONTACT: Erick Foster State of VT CHECKED BY: JED/AD DATE: 4.30.09
DRAWING NO.	T-1
SHEET NO.	12 of 17

BOTTOM CHORD:



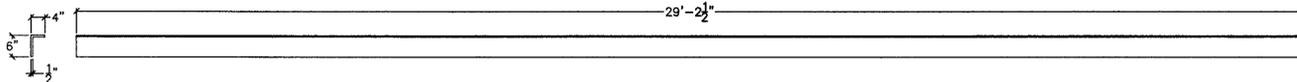
1L2L4A-ANGLE

1" = 1'-0"



1L2L4A-ANGLE

1" = 1'-0"



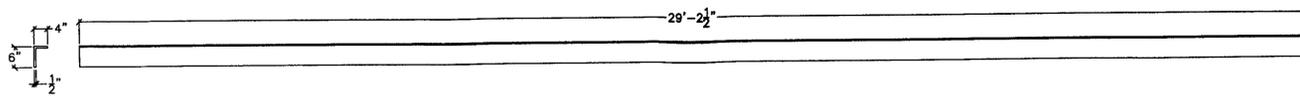
1L2L4B-ANGLE

1" = 1'-0"

RECEIVED
CHK'D BY CHM OK'D BY _____
MAY 11 2009
BY WJ DATE 5/20/09

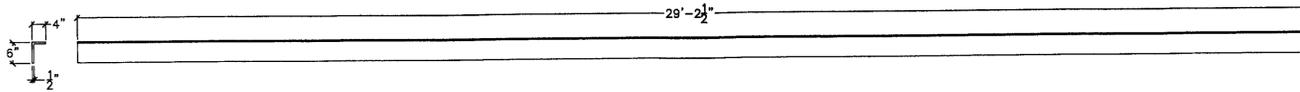
Premier Bros. Construction P.O. Box 100 (802) 257-7383	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	
DRAWING TITLE: Drawings Truss Type 1 Drawings	DRAWN BY: JED
CHECKED BY: JED/JAD	DATE: 4 30 09
DRAWING NO.:	T-1
SHEET NO.:	13 OF 17

BOTTOM CHORD:



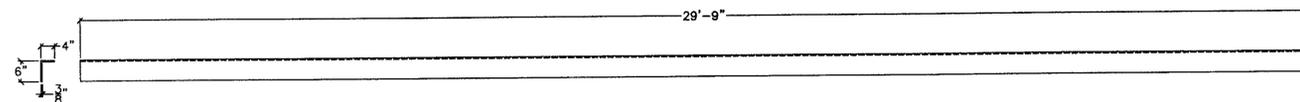
1L4L6A-ANGLE

1" = 1'-0"



1L4L6B-ANGLE

1" = 1'-0"



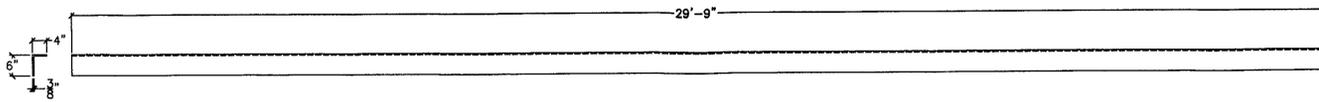
1L6L8A-ANGLE

1" = 1'-0"

RECEIVED
OK'D BY: CWA OK'D BY: _____
MAY 11 2009
BY: WY DATE: 5/11/09

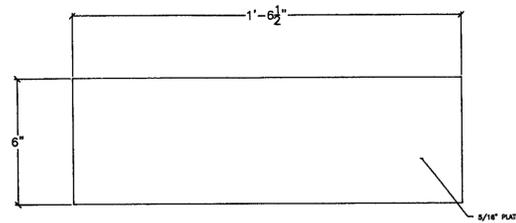
Revised Elec. Construction For Bridge Rehab. Wallingford, VT 05694 (802) 257-7583	
FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 1 - Drawings
DRAWN BY	JED
CHECKED BY	JED/AD
DATE	4 30 09
DRAWING NO.	T-1
SHEET NO.	14 OF 17

BOTTOM CHORD:



1L6L8B-ANGLE

1" = 1'-0"



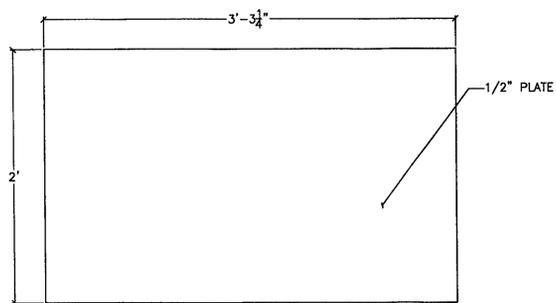
1BC01-PLATE

3" = 1'-0"

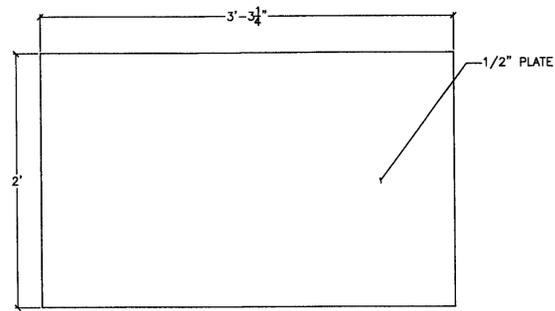
RECEIVED
OK'D BY CWA OK'D BY _____
MAY 11 2009
BY WJg DATE 5/11/09

Renard Rice Construction For Bridgeway West, VT 0554 (802) 257-7383	
PROJECT TITLE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 1 Drawings
DRAWN BY	ED
CHECKED BY	ED/AD
JOB CONTACT	Erick Foster State of VT
DATE	4 30 09
DRAWING NO.	T-1
SHEET NO.	15 of 17

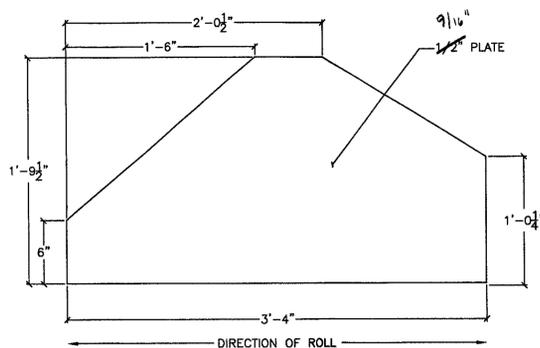
GUSSET PLATES:



1GP01
3" = 1'-0"



1GP02
3" = 1'-0"



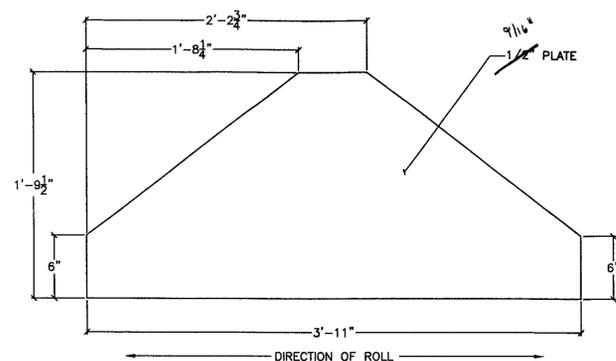
1GP03
3" = 1'-0"

RECEIVED
CHKD BY CWA OK'D BY _____

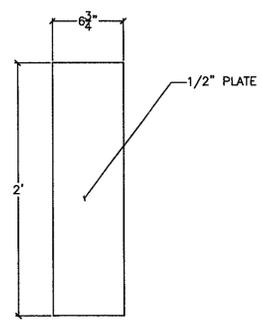
MAY 11 2009
BY WY DATE 5/11/09

Revised Blue Construction Performance Bond, Inc. VT 0554 (802) 257-7383	
TITLE: <u>Wallingford Bridge Rehab</u> LOCATION: <u>Wallingford, VT</u>	DRAWING TITLE: <u>Drawings Truss Type 1 Drawings</u> DRAWN BY: <u>JED</u> JOB CONTACT: <u>Erick Foster State of VT</u> CHECKED BY: <u>ED/AD</u> DATE: <u>4 30 09</u>
DRAWING NO.	T-1
SHEET NO.	16 OF 17

GUSSET PLATES:



1GP04
3" = 1'-0"



1GP05
3" = 1'-0"

RECEIVED
 OK'D BY: CHA OK'D BY: _____
 MAY 11 2009
 BY: WJ APPROVED: As
 DATE: 5/11/09

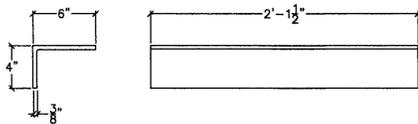
Renewal Plus Construction Fort Benjamin Hall Ave., VT 05594 (802) 257-7363	
TITLE: <u>Wallingford Bridge Rehab</u> LOCATION: <u>Wallingford, VT</u>	DRAWING NO.: <u>T-1</u>
SOURCE: <u>Truss Type 1 Drawings</u> DRAWN BY: <u>JED</u> JOB CONTACT: <u>Erick Foster</u> State of VT CHECKED BY: <u>JED/AD</u> DATE: <u>4 30 09</u>	SHEET NO.: <u>17 OF 17</u>

GENERAL NOTES:

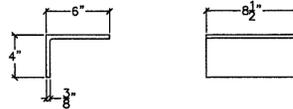
- * ALL MEASUREMENTS TO BE VERIFIED BEFORE FABRICATION OF INDIVIDUAL MEMBERS BEGINS
- * ALL HOLES DRILLED IN NEW FABRICATED STEEL, TO MATCH EXISTING STEEL MEMBERS
- * ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M-270 GRADE 50
- * UNLESS OTHERWISE NOTED, ALL HOLES SHALL BE DRILLED TO 1 3/16" DIA
- * DIMENSIONS LESS THAN 25'-0" +/- 1/16"
- * DIMENSIONS GREATER THAN 25'-0" +/- 1/8"
- * SUPPORTING DOCUMENTATION TO DRAWINGS SEE BILL OF MATERIALS TRUSS TYPE 1 & 2.
- * PAINT SYSTEM TO BE USED.

BEARING PEDESTAL:

NOTE: HORIZONTAL LATERAL BRACING / FLOOR BEAM CONNECTION PLATES, SCHEDULED FOR REPLACEMENT AT L0, L2, L4, L6 & L8 ARE NOT INCLUDED IN THIS SET.



2BP01-ANGLE
3" = 1'-0"



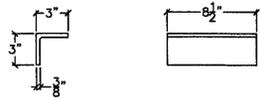
2BP03-ANGLE
3" = 1'-0"

NOTE: FOR FUTURE SUBMITTALS PLEASE PROVIDE BILL OF MATERIALS, INCLUDING FASTENERS, ON THE SHEETS WITH DETAILS.

RECEIVED
 CK'D BY CWA OK'D BY _____
 MAY 11 2009
 RESUBMIT _____ APPROVED As Noted
 BY WY DATE 5/14/09

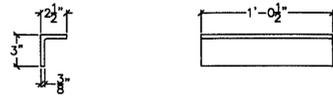
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2: General Notes & Drawings DRAWN BY: JED CHECKED BY: JED/JAB JOB CONTACT: Erick Foster State of VT DATE: 4 30 09		Renaud Bros Construction Performance Warranty, VT 0504 (802) 251-7888
SHEET NO.: T-2		1 of 18

BEARING PEDESTAL CONT.:



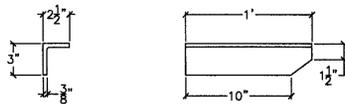
2BP04-ANGLE

3" = 1'-0"



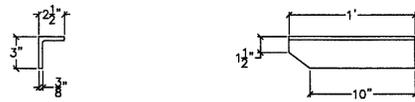
2BP05-ANGLE

3" = 1'-0"



2BP06R-ANGLE

3" = 1'-0"



2BP06L-ANGLE

3" = 1'-0"

RECEIVED

OK'D BY C.H.B. OK'D BY _____

MAY 11 2009

R. SUEWIT APPROVED As Notd

BY WJ DATE 5/11/09

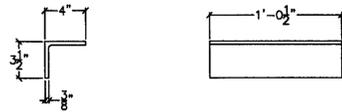
<p>PERMANENT BRIDGE CONSTRUCTION SERVICES, INC. (802) 257-7393</p>	
<p>Wallingford Bridge Rehab Wallingford, VT</p>	
<p>DRAWING TITLE: Drawings Truss Type 2: Drawings</p>	
DRAWN BY: JED	ENR. CONTACT: Enck, Foster State of VT
CHECKED BY: JED/AD	DATE: 4.30.09
<p>T-2</p>	
<p>2 OF 18</p>	

BEARING PEDESTAL CONT.:

TBD WHEN REMOVED
DWG. SUBMITTED FOR
APPROVAL

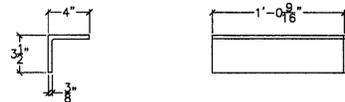
2BP07-PLATE

3" = 1'-0"



2BA01-ANGLE

3" = 1'-0"



2BA02-ANGLE

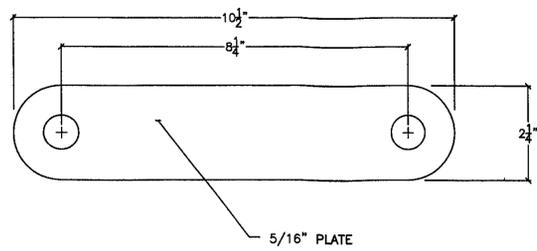
3" = 1'-0"

RECEIVED
 CK'D BY CHM OK'D BY _____
 MAY 11 2009
 R-SUE:WIT APPROVED As MTH
 BY SY DATE 5/11/09
WY

FILE LOCATION DRAWING TITLE DRAWN BY CHECKED BY	Wallingford Bridge Rehab Wallingford, VT Drawings Truss Type 2: Drawings JED JED/AD
JOB CONTACT DATE	Erick Foster, State of VT 4/30/09
DRAWING NO. SHEET NO.	T-2 3 of 18

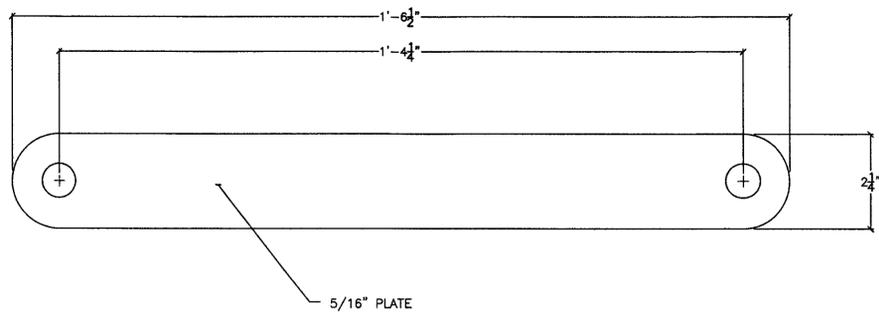
Pinnaud Bros. Construction
 1000 Main Street
 (802) 257-1282

LATTICE:



2LP01-PLATE

3" = 1'-0"



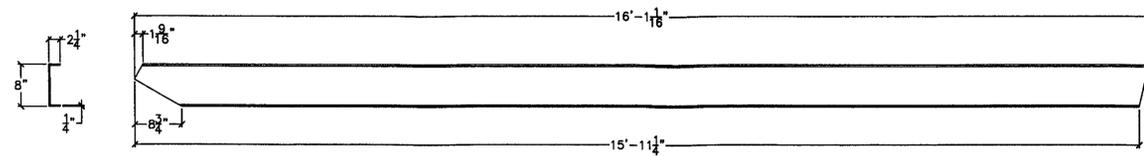
2LP02-ANGLE

3" = 1'-0"

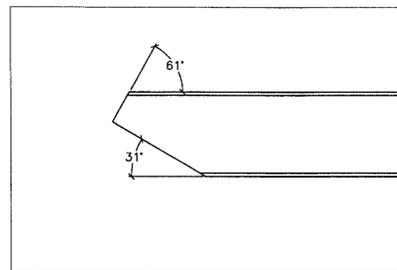
RECEIVED
 CKD BY CA OKD BY _____
 MAY 11 2003
 R SUBMITTED BY WY APPROVED BY As Noted
 DATE 5/11/03

TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2: Drawings DRAWN BY: JED CHECKED BY: ED/AD JOB CONTACT: Erik Foster State of VT DATE: 4 30 09	
PREPARED BY: Construction PHONE: (802) 257-7383	DRAWING NO.: SHEET NO.: T-2 4 OF 18

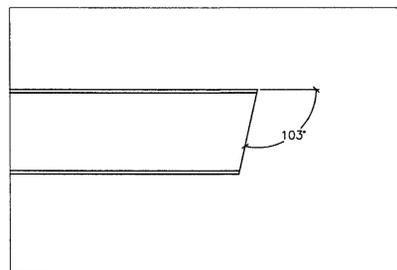
UPPER CHORD:



2L8U7-CHANNEL
1-1/2" = 1'-0"



2L8U7-END DETAIL
3" = 1'-0"



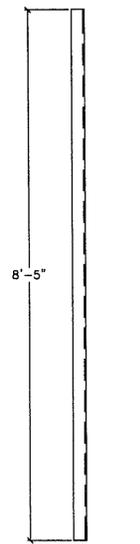
2L8U7-END DETAIL
3" = 1'-0"

RECEIVED
MAY 11 2009
APPROVED BY *[Signature]*
DATE *5/11/09*

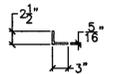
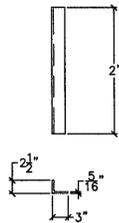
FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2 Drawings
DRAWN BY	LED
CHECKED BY	ED/AD
DATE	4 30 09
DRAWING NO.	T-2
SHEET NO.	5 of 18

Renard Bros. Construction
Renard Bros. Road
(802) 257-7385

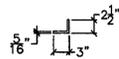
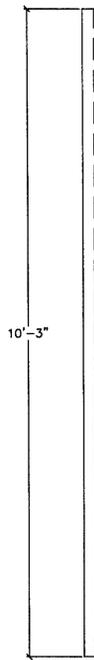
UPRIGHT MEMBERS:



2U1L1L-ANGLE
1-1/2" = 1'-0"



2U1L1R-ANGLE
1-1/2" = 1'-0"



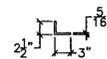
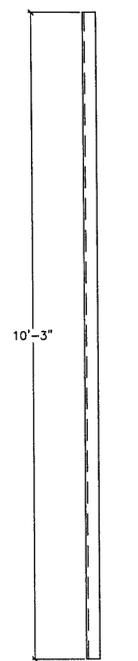
2U2L2L-ANGLE
1-1/2" = 1'-0"

RECEIVED
 OK'D BY _____
 MAY 11 2009
 APPROVED *As Held*
 BY *WJ* DATE *5/11/09*

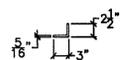
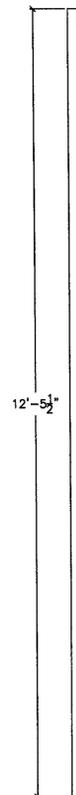
FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2 Drawings
DRAWN BY	JED
CHECKED BY	ED/AD
DATE	4 30 09
JOB CONTRACT	Erick Foster State of VT
DRAWING NO.	T-2
SHEET NO.	6 of 18

Renold Bros. Construction
 1000 Main Street
 (802) 257-7185

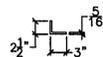
UPRIGHT MEMBERS:



2U2L2R-ANGLE
1-1/2" = 1'-0"



2U3L3L-ANGLE
1-1/2" = 1'-0"

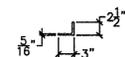
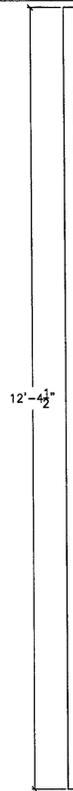


2U3L3R-ANGLE
1-1/2" = 1'-0"

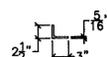
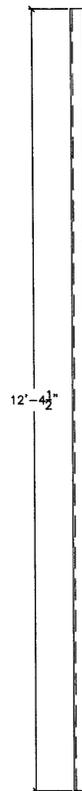
RECEIVED
 CK'D BY CMB OK'D BY _____
 MAY 11 2009
 R. J. GILIT APPROVED As Noted
 BY ag DATE 5/11/09
WJ

TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2- Drawings DRAWN BY: JED JOB CONTACT: Erick Foster State of VT CHECKED BY: JED/AD DATE: 4-30-09		Renewal Eng. Construction 1000 Main Street Wallingford, VT 05488 (802) 257-7253
DRAWING NO.	T-2	
SHEET NO.	7 OF 18	

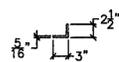
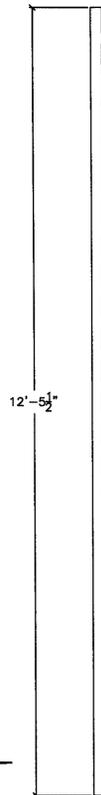
UPRIGHT MEMBERS:



2U4L4L-ANGLE
1-1/2" = 1'-0"



2U4L4R-ANGLE
1-1/2" = 1'-0"

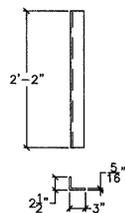


2U5L5L-ANGLE
1-1/2" = 1'-0"

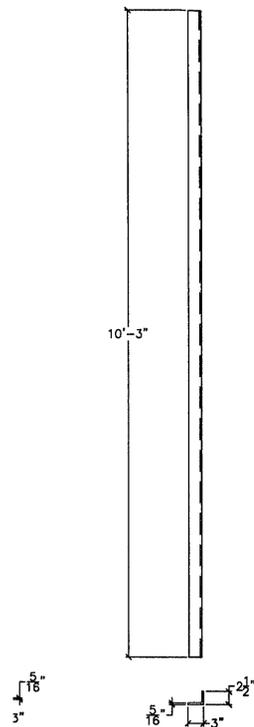
RECEIVED
 OK'D BY CHA OK'D BY _____
 MAY 11 2009
 R. J. C. W. H. T. APPROVED A. M. W.
 BY S. J. DATE 5/11/09

FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2: Drawings
DRAWN BY	LED
CHECKED BY	ED/AD
DATE	4 30 09
JOB CONTACT	Erick Foster State of VT
Renaud Bros. Construction Renaud Brothers, Inc. (802) 257-7385	
DRAWING NO.	T-2
SHEET NO.	8 of 18

UPRIGHT MEMBERS:

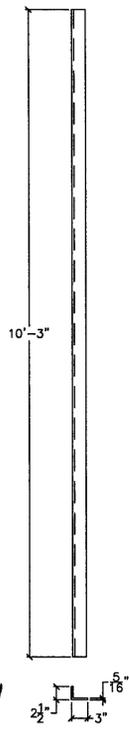


2U5L5R-ANGLE
1-1/2" = 1'-0"



2U6L6L-ANGLE
1-1/2" = 1'-0"

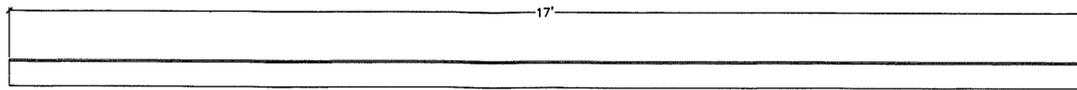
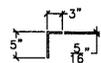
RECEIVED
 OK'D BY CHA OK'D BY _____
 MAY 11 2009
 R. J. ... APPROVED A. M. H.
 BY WJ DATE 5/11/09



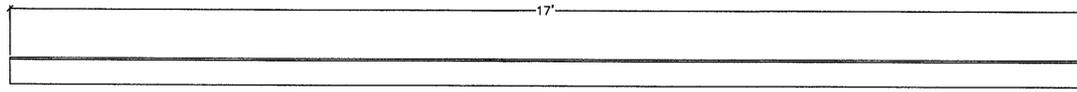
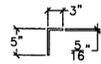
2U6L6R-ANGLE
1-1/2" = 1'-0"

TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2: Drawings DRAWN BY: JED CHECKED BY: JED/AD DATE: 4 30 09		Renaud Bros. Construction 1000 Highway 108 (802) 257-7285
JOB CONTACT: Erik Foster State of VT		
SHEET NO.: T-2		
9 of 18		

UPRIGHT MEMBERS:



2DMO1-ANGLE
1-1/2" = 1'-0"

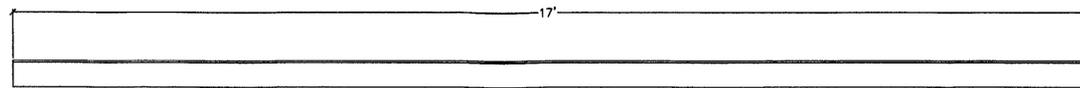
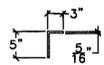


2DMO2-ANGLE
1-1/2" = 1'-0"

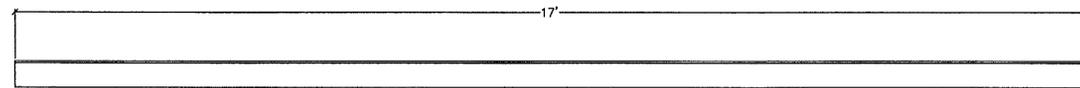
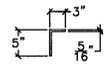
RECEIVED
 CK'D BY CHA OK'D BY _____
 MAY 11 2009
 R. JENIT APPROVED As Noted
 BY WY DATE 5/11/09

Renaud Bros. Construction Performance, VT/MSA (802) 257-7300	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING TITLE: Drawings Truss Type 2 Drawings DRAWN BY: JED CHECKED BY: JED/AD
JOB CONTACT: Erick Foster State of VT	DATE: 4.30.09
DRAWING NO: T-2	SHEET NO: 10 of 18

UPRIGHT MEMBERS:



2DMO3-ANGLE
 $1-1/2'' = 1'-0''$



2DMO4-ANGLE
 $1-1/2'' = 1'-0''$

RECEIVED
 OK'D BY CHA OK'D BY _____

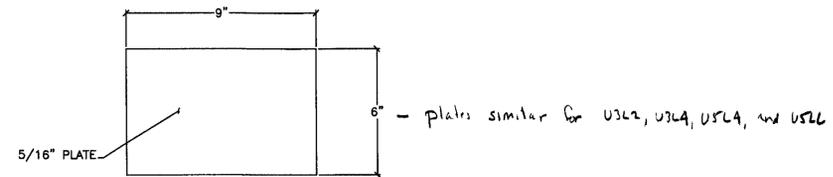
MAY 11 2009

APPROVED As
 BY WJ DATE 5/19/09

FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2: Drawings
DRAWN BY	JED
CHECKED BY	JED/AD
JOB CONTACT	Erick Foster State of VT
DATE	4 30 09
DRAWING NO.	T-2
SHEET NO.	11 of 18

Renard Bros. Construction
 1000 Main Street
 (802) 257-7385

UPRIGHT MEMBERS:



2DM05-PLATE
6" = 1'-0"

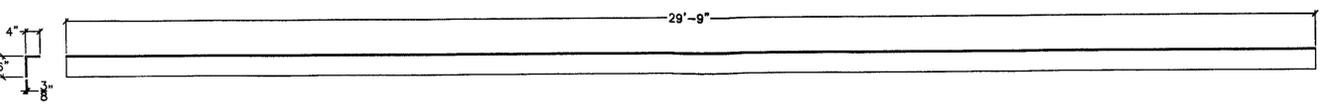
RECEIVED
OK'D BY EMA OK'D BY _____

MAY 11 2009
APPROVED As Noted
BY SJA DATE 5/11/09
WY

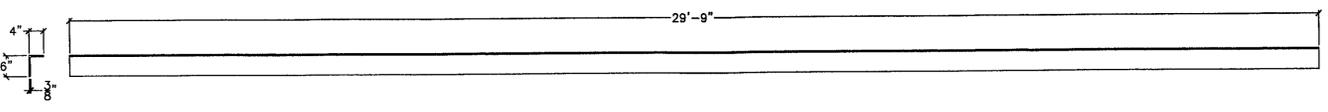
FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2. Drawings
DRAWN BY	JED
CHECKED BY	JED/AD
JOB CONTACT	Ersk Forter State of VT
DATE	4 30 09
DRAWING NO.	
SHEET NO.	T-2
	12 of 18

Renard Bros. Construction
Renard Bros. Construction
(802) 257-7383

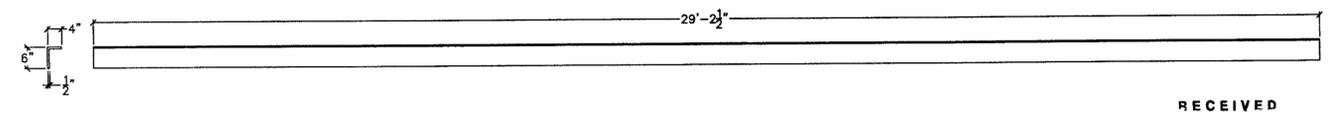
BOTTOM CHORD:



2L0L2A-ANGLE
1" = 1'-0"



2L0L2B-ANGLE
1" = 1'-0"

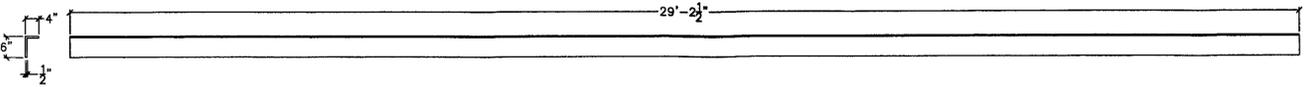


2L2L4A-ANGLE
1" = 1'-0"

RECEIVED
 OK'D BY: CLH OK'D BY: _____
 MAY 11 2009
 R. J. LEWIS APPROVED By [Signature]
 BY: SJS DATE: 5/12/09
 WJ

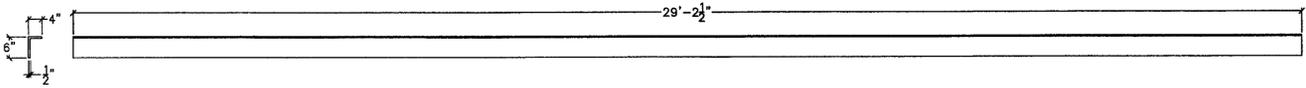
PERMA-BOND Construction 1000 W. Main Street (802) 257-7353	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2 Drawings DRAWN BY: ED JOB CONTACT: Erick Foster State of VT CHECKED BY: SED/AD DATE: 4-30-09	DRAWING NO.: T-2 SHEET NO.: 13 of 18

BOTTOM CHORD:



2L4L6A-ANGLE

1" = 1'-0"



2L4L6B-ANGLE

1" = 1'-0"

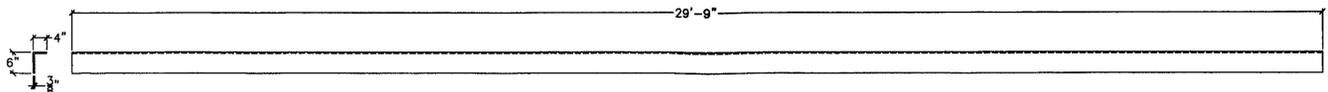
RECEIVED
CK'D BY CMR OK'D BY _____

MAY 11 2011
APPROVED As Nihil
BY WY DATE 5/11/11

FILE: Wallingford Bridge Rehab
LOCATION: Wallingford, VT
DRAWING TITLE: Drawings Truss Type 2: Drawings
DRAWN BY: JED JOB CONTACT: Erik Foster State of VT
CHECKED BY: JED/AD DATE: 4 30 09
PREPARED BY: Construction
Phone: (802) 257-7393

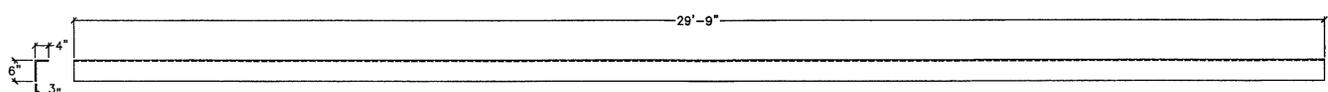
DRAWING NO. T-2
SHEET NO. 14 OF 18

BOTTOM CHORD:



2L6L8A-ANGLE

1-1/2" = 1'-0"



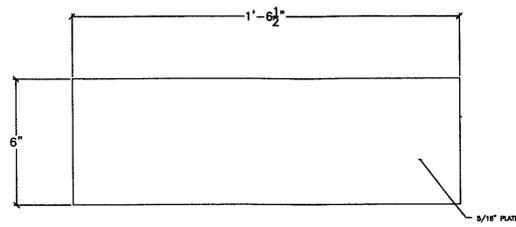
2L6L8B-ANGLE

1" = 1'-0"

RECEIVED
CK'D BY CHA OK'D BY _____
MAY 11 2009
RESUBMIT _____ APPROVED As Noted
BY WY DATE 5/14/09

PREPARED BY: <u>Wallingford Construction</u> PHONE: <u>(802) 257-7353</u>	
FILE: <u>Wallingford Bridge Rehab</u>	LOCATION: <u>Wallingford, VT</u>
DRAWING TITLE: <u>Drawings Truss Type 2 Drawings</u>	DRAWN BY: <u>JED</u> JOB CONTACT: <u>Enck Foster State of VT</u>
CHECKED BY: <u>JED/AD</u>	DATE: <u>4 30 09</u>
DRAWING NO.	T-2
SHEET NO.	15 of 18

BOTTOM CHORD:



2BC01-PLATE

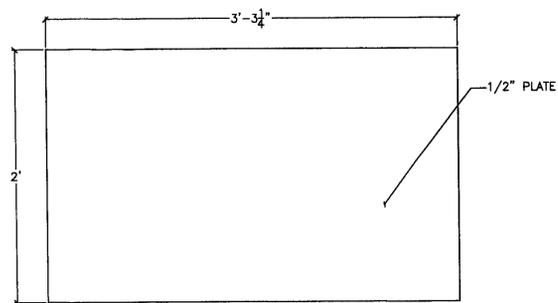
3" = 1'-0"

RECEIVED
CK'D BY CHE OK'D BY _____
MAY 11 2009
RESUBMIT _____ APPROVED As Noted
BY WY DATE 5/11/09

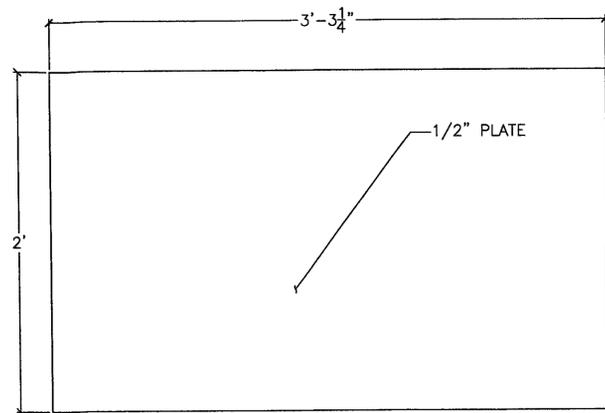
FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2- Drawings
DRAWN BY	JED
CHECKED BY	JED/AD
DATE	4 30 08
JOB CONTACT	Erick Foster State of VT
DRAWING NO.	T-2
SHEET NO.	16 OF 18

Permaid Bros. Construction
Permaid Bros. Construction
(802) 257-7353

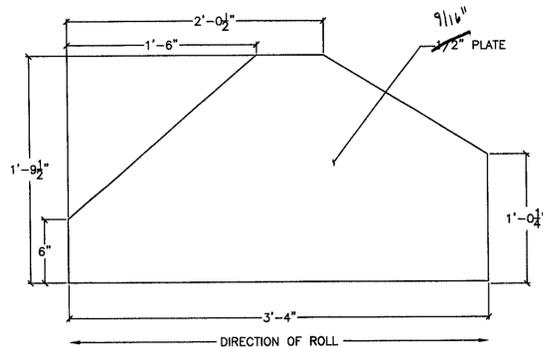
GUSSET PLATES.:



2GP01-PLATE
3" = 1'-0"



2GP02-PLATE
3" = 1'-0"

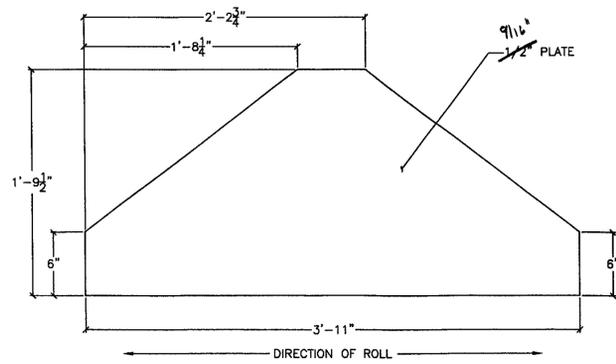


2GP03-PLATE
3" = 1'-0"

RECEIVED
 CK'D BY Chh OK'D BY _____
 MAY 11 2009
 R/SUBMIT _____ APPROVED As NW
 BY WY DATE sh/14

PERIODIC BRIDGE CONSTRUCTION WALLINGFORD, VT (802) 257-7383	
TITLE Wallingford Bridge Rehab Wallingford, VT	DRAWING TITLE Drawings Truss Type 2 Drawings
DRAWN BY: <u>JED</u>	JOB CONTACT: <u>Erick Foster State of VT</u>
CHECKED BY: <u>JED/AD</u>	DATE: <u>4 30 09</u>
DRAWING NO. <u>T-2</u>	SHEET NO. <u>17 of 18</u>

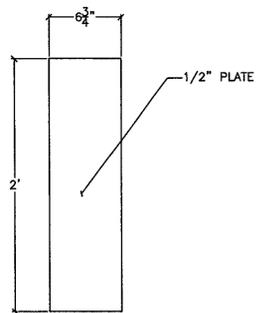
GUSSET PLATES.:



2GP04-PLATE

3" = 1'-0"

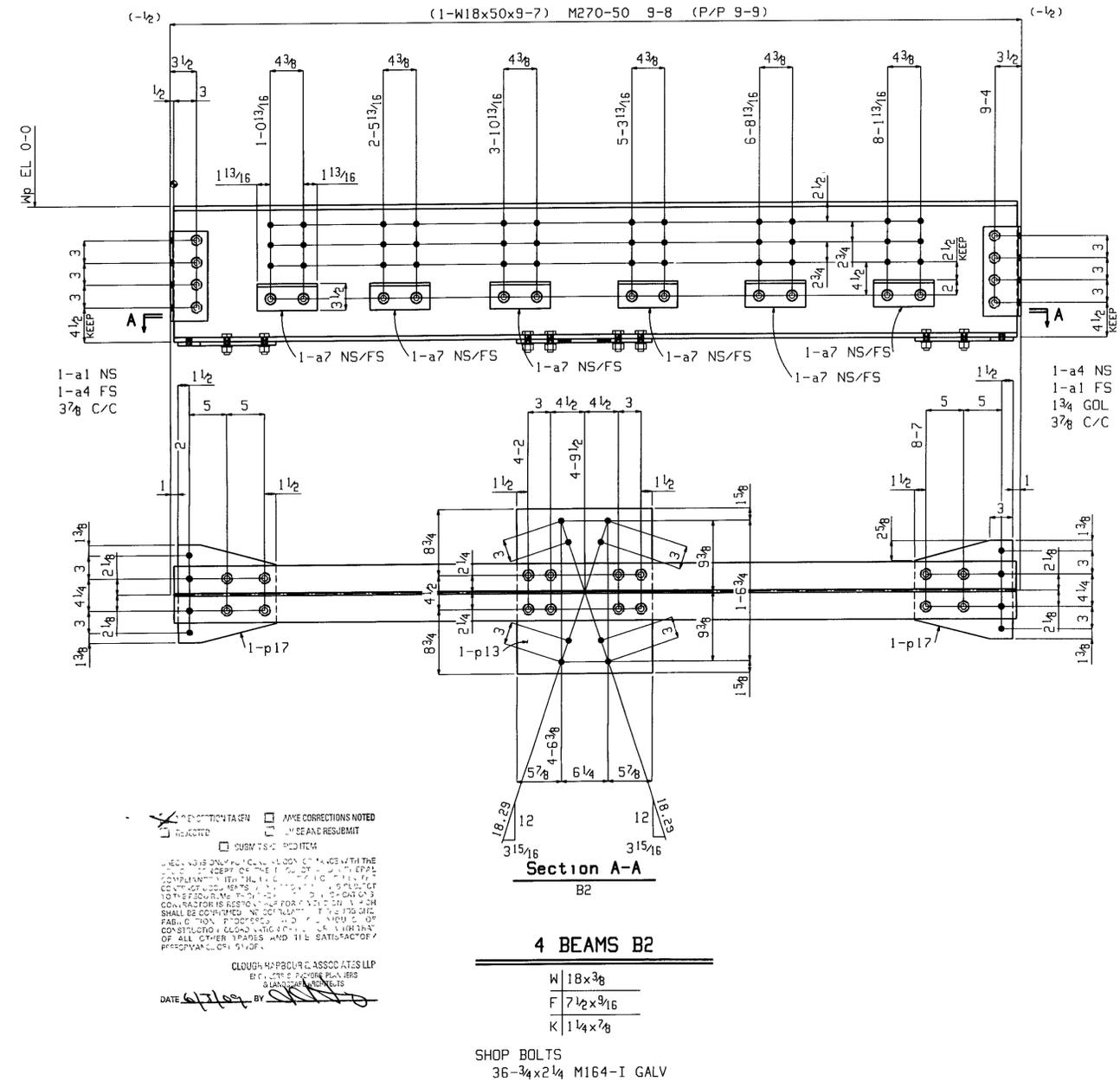
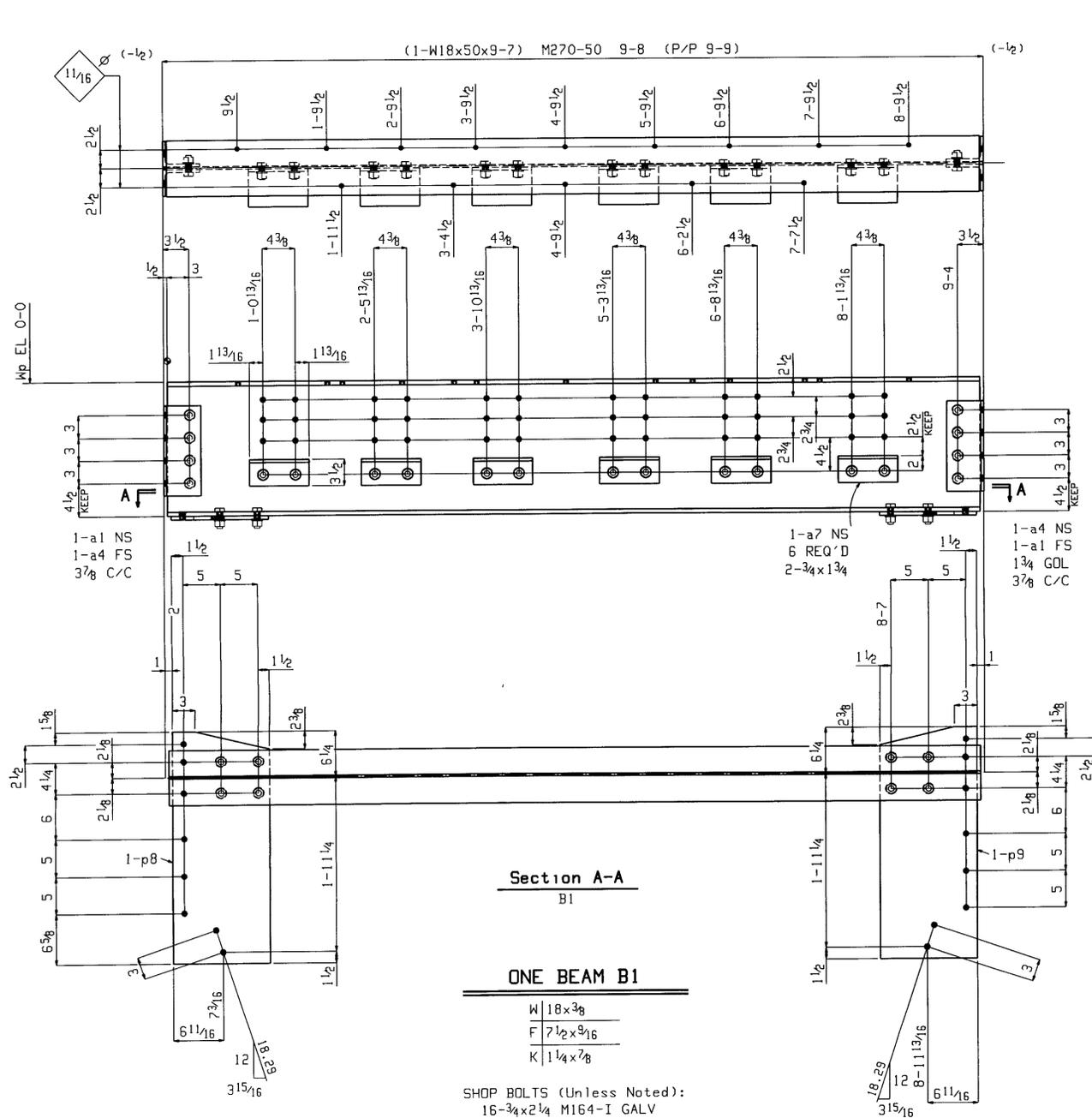
RECEIVED
 CK'D BY CM OK'D BY _____
 MAY 11 2009
 RF SUEMIT _____ APPROVED As Noted
 BY WY 9/1 DATE 5/14/09



2GP05-PLATE

3" = 1'-0"

Renaud Bros. Construction 1000 W. Main St. (802) 257-1235	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2 Drawings DRAWN BY: JED CHECKED BY: ED/AD JOB CONTACT: Erick Foster State of VT DATE: 4.30.09	DRAWING NO.: T-2 SHEET NO.: 18 of 18



DATE: 5/1/09 BY: [Signature]

REVISIONS:

- 1. REVISED TO REFLECT CHANGES NOTED IN FIELD.
- 2. REVISED TO REFLECT CHANGES NOTED IN FIELD.

APPROVED BY: [Signature]

DATE: 5/1/09

BILL OF MATERIAL										BILL OF MATERIAL										BILL OF MATERIAL									
Qty	Piece	Description	Length	Seq	Seq	Adv	Steel	Remarks		Qty	Piece	Description	Length	Seq	Seq	Adv	Steel	Remarks		Qty	Piece	Description	Length	Seq	Seq	Adv	Steel	Remarks	
1	B1	W18x50	9 7	1	1		M270-50			4	B2	W18x50	9 7	1	4		M270-50			48	a7	L5x3 1/2 x 3/8	0 8				M270-50		
2	a1	L5x3 1/2 x 3/8	1 0				M270-50			4	p13	PL 1/2 x 18	1 10				M270-50			8	p17	PL 1/2 x 13	1 1				M270-50		
2	a4	L5x3 1/2 x 3/8	1 0				M270-50			144		3/4 Dia M164-I	0 2 1/4					IHD WASH, GALV											
6	a7	L5x3 1/2 x 3/8	0 8				M270-50																						
1	p8	PL 1/2 x 13	2 7				M270-50																						
1	p9	PL 1/2 x 13	2 7				M270-50																						
16		3/4 Dia M164-I	0 2 1/4					IHD WASH, GALV		8	a1	L5x3 1/2 x 3/8	1 0				M270-50												
12		3/4 Dia M164-I	0 1 3/4					IHD WASH, GALV		8	a4	L5x3 1/2 x 3/8	1 0				M270-50												

Total weight 3595

RECEIVED
MAY 26 2009

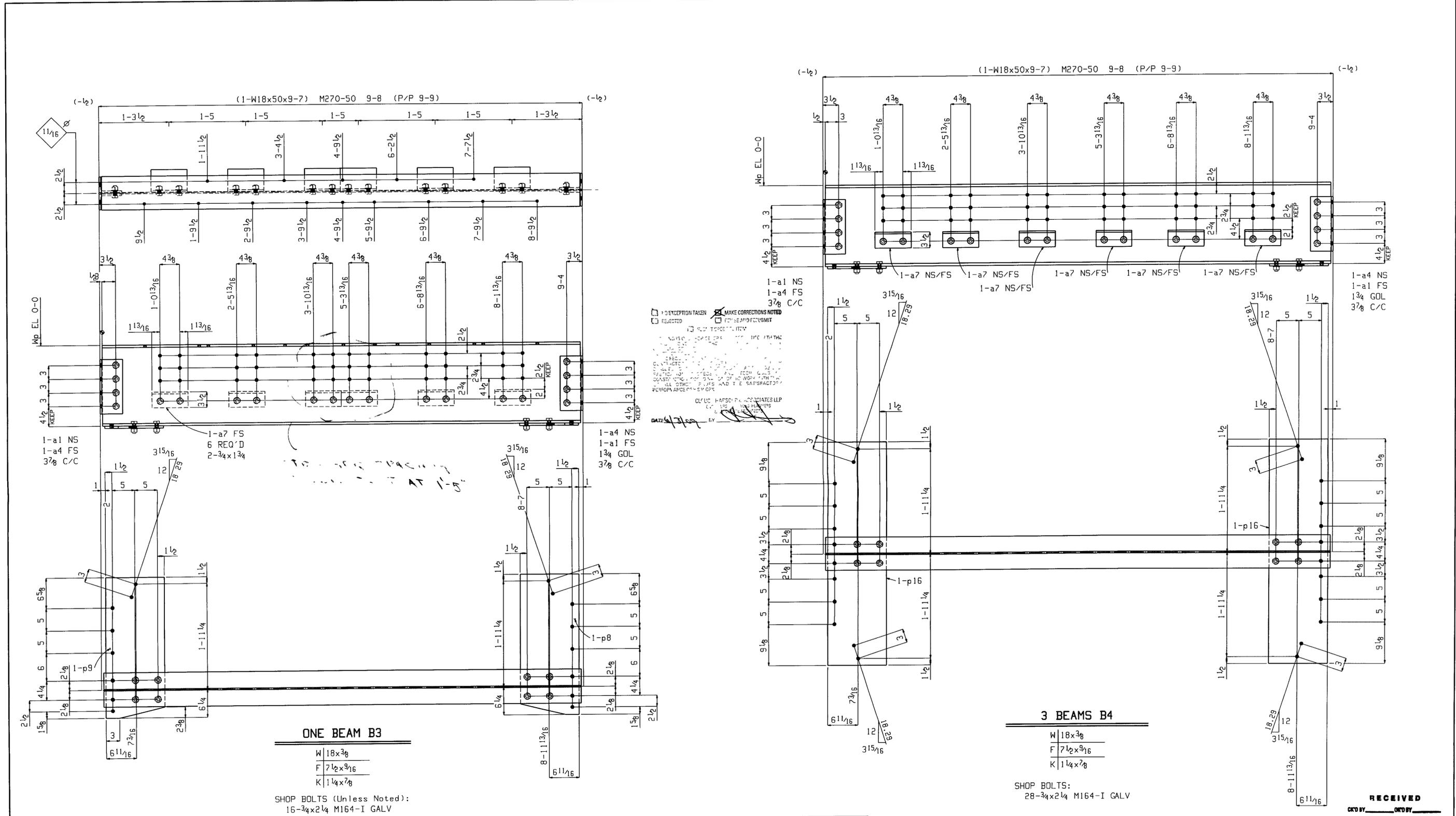
Renaud Bros. Inc.
283 Fort Bridgeman Rd. #2
Vernon, VT. 05354
Phone 1-802 257-7383

Project: **WALLINGFORD BRIDGE**
WALLINGFORD, VT

Rev. No.: _____ Date: 4-28-09 Job No. _____
DWN. BY: EG Checked: _____ Sheet No. **B1, 2**

Holes: 13/16 UNF
BOLTS: 3/4" DIA M164-I GALV
Steel GR: M270-50 UNF
Paint: PER SPECS
Surface Prep: PER SPECS

May 15 2009 03:04:45 PM



BILL OF MATERIAL										BILL OF MATERIAL										BILL OF MATERIAL									
Qty	Piece									Qty	Piece									Qty	Piece								
Tot.	Mark	Description	Length	Seq. NO.	Seq. Qty	Adv. ABN #	Steel Grade	Remarks		Tot.	Mark	Description	Length	Seq. NO.	Seq. Qty	Adv. ABN #	Steel Grade	Remarks		Tot.	Mark	Description	Length	Seq. NO.	Seq. Qty	Adv. ABN #	Steel Grade	Remarks	
1	B3	W18x50	9 7	1	1		M270-50			3	B4	W18x50	9 7	1	3		M270-50			36	a7	L5x3 1/2 x 3/8	0 8				M270-50		
2	a1	L5x3 1/2 x 3/8	1 0				M270-50			6	p16	PL 1/2 x 13	4 1 1/2				M270-50			84		3/4 Dia M164-I	0 2 1/4					IHD WASH, GALV	
2	a4	L5x3 1/2 x 3/8	1 0				M270-50																						
6	a7	L5x3 1/2 x 3/8	0 8				M270-50																						
1	p8	PL 1/2 x 13	2 7				M270-50																						
1	p9	PL 1/2 x 13	2 7				M270-50																						
16		3/4 Dia M164-I	0 2 1/4					IHD WASH, GALV																					
12		3/4 Dia M164-I	0 1 3/4					IHD WASH, GALV																					

Total weight 3104

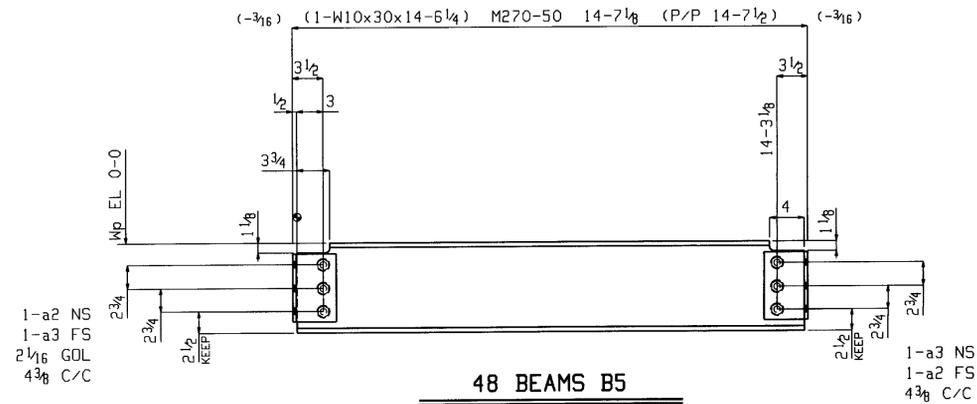
Renaud Bros. Inc.
 283 Fort Bridgeman Rd. #2
 Vernon, VT. 05354
 Phone 1-802 257-7383

Project: **WALLINGFORD BRIDGE**
 WALLINGFORD, VT

Holes: 13/16 UNF
 BOLTS: 3/4" DIA M164-I GALV
 Steel GR: M270-50 UNF
 Paint: PER SPECS
 Surface Prep: PER SPECS

Rev. No: _____ Date: 4-28-09 Job No. _____
 DWN. BY EG Checked Sheet No. B3, 4

MAY 15 2009 08:03:46 PM



48 BEAMS B5

W 10 1/2 x 5 1/16
 F 5 13 16 x 1/2
 K 1 1/8 x 3/4

SHOP BOLTS
 6-3/4 x 2 1/4 M164-I GALV

NO EXCEPTION TAKEN
 REJECTED
 SUBSTITUTION TO ITEM
 MAKE CORRECTIONS NOTED
 RE-RECALL REVISIONS

CONTROL BY: _____
 DATE: _____

DATE: 4/10/09 BY: [Signature]

BILL OF MATERIAL

BILL OF MATERIAL

BILL OF MATERIAL

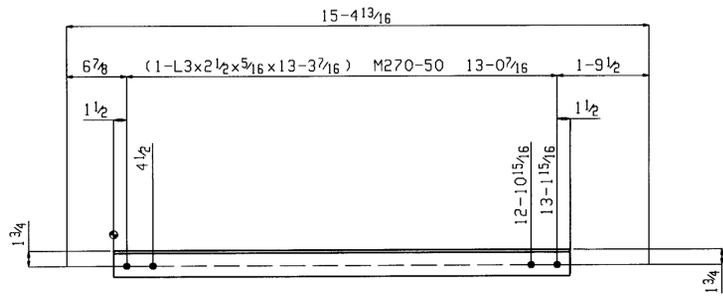
Qty	Piece			Seq	Seq	Adv	Steel		Qty	Piece			Seq	Seq	Adv	Steel		Qty	Piece			Seq	Seq	Adv	Steel	
Tot.	Mark	Description	Length	NO.	Qty	ABM #	Grade	Remarks	Tot.	Mark	Description	Length	NO.	Qty	ABM #	Grade	Remarks	Tot.	Mark	Description	Length	NO.	Qty	ABM #	Grade	Remarks
48		BEAM		1	48																					
48	B5	W10x30	14 5/8				M270-50																			
96	a2	L5x3 1/2 x 3/8	0 8				M270-50																			
96	a3	L5x3 1/2 x 3/8	0 8				M270-50																			
288		3/4 Dia M164-I	0 2 1/4					IHD WASH, GALV																		

Total weight 22008

RECEIVED

CR'D BY: _____
 MAY 26 2009
 RFSUBMIT: _____
 APPROVED: _____
 BY: _____ DATE: _____

Renaud Bros. Inc. 283 Fort Bridgeman Rd. #2 Vernon, VT. 05354 Phone 1-802 257-7383	Holes: 13/16 UNF BOLTS: 3/4" DIA M164-I GALV Steel GR: M270-50 UNF Paint: PER SPECS Surface Prep: PER SPECS
	Rev. No: _____ Date: 4-28-09 Job No. _____ Project: WALLINGFORD BRIDGE WALLINGFORD, VT
	DWN. BY: EG Checked: _____ Sheet No. B5

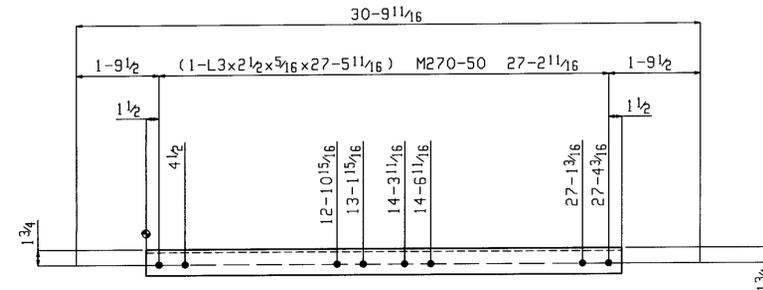


8 HORIZONTAL BRACES HB1

SHOP NOTE
TOE DIRECTION NEAR SIDE
LONG LEG SHOWN

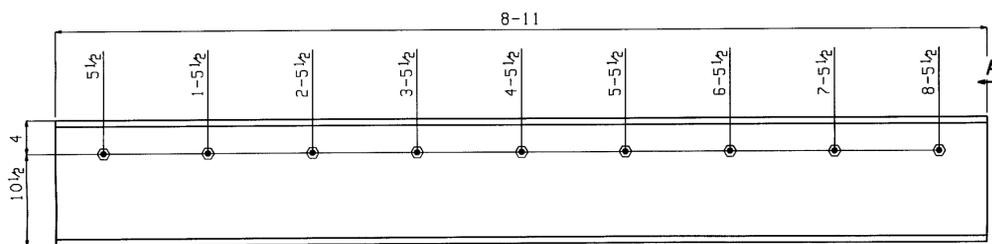
DATE 6/3/09 BY [Signature]

CLDIGH HARBOUR & ASSOCIATES LLP
ENGINEERS ARCHITECTS
& LANDSCAPE ARCHITECTS

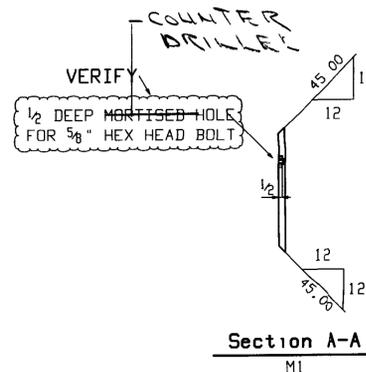


4 HORIZONTAL BRACES HB2

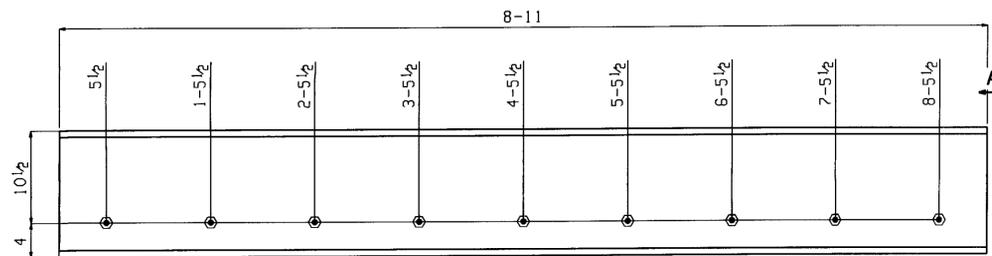
SHOP NOTE:
TOE DIRECTION FAR SIDE
LONG LEG SHOWN



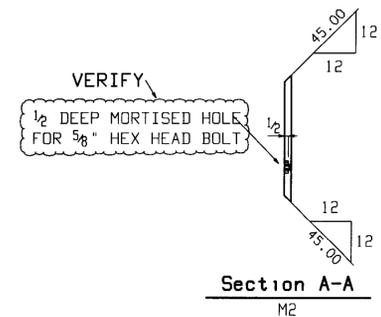
**ONE MISC M1
GALV**



**Section A-A
M1**



**ONE MISC M2
GALV**



**Section A-A
M2**

BILL OF MATERIAL										BILL OF MATERIAL										BILL OF MATERIAL										
Qty	Piece									Qty	Piece									Qty	Piece									
Tot.	Mark	Description	Length	Seq. NO.	Seq. Qty	Adv. ABM #	Steel Grade	Remarks		Tot.	Mark	Description	Length	Seq. NO.	Seq. Qty	Adv. ABM #	Steel Grade	Remarks		Tot.	Mark	Description	Length	Seq. NO.	Seq. Qty	Adv. ABM #	Steel Grade	Remarks		
8		HORIZONTAL BRACE		1	8					ONE	MISC			1	1				GALV											
8	HB1	L3x2 1/2 x 3 7/16	13	3 7/16			M270-50			1	M1	PL 3/4 x 14 1/2	8	11			M270-50													
4		HORIZONTAL BRACE		1	4					ONE	MISC			1	1				GALV											
4	HB2	L3x2 1/2 x 5 1/16	27	5 1/16			M270-50			1	M2	PL 3/4 x 14 1/2	8	11			M270-50													

Total weight 1832

RECEIVED
 CTD BY _____ OKD BY _____
 MAY 26 2003
 RFSUBMIT _____ APPROVED _____
 BY _____ DATE _____

Renaud Bros. Inc.
 283 Fort Bridgeman Rd. #2
 Vernon, VT. 05354
 Phone 1-802 257-7383

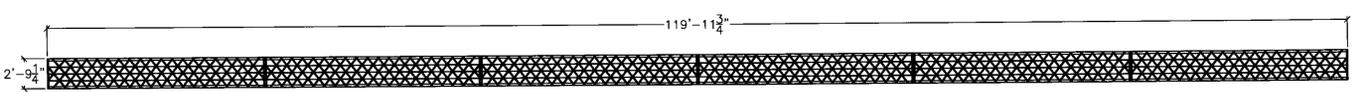
Rev.No: _____ Date: _____
 Project: **WALLINGFORD BRIDGE** Date: 4-28-09 Job No. _____
 WALLINGFORD, VT. DWN. BY EG Checked: _____ Sheet No. HB1-2, M1-2

MAY 15 2003 03:03:51 PM

GENERAL NOTES:

- * ALL MEASUREMENTS TO BE VERIFIED BEFORE FABRICATION OF INDIVIDUAL MEMBERS BEGINS
- * ALL RAIL HOLES TO BE PUNCHED FULL SIZE
- * ALL RAIL STEEL SHALL BE DOMESTIC AASHTO M270 GRADE 36
- * DIMENSIONS LESS THAN 25'-0" +/- 1/8"
- * DIMENSIONS GREATER THAN 25'-0" +/- 1/8"
- * SUPPORTING DOCUMENTATION TO DRAWINGS SEE BILL OF MATERIALS PEDESTRIAN RAIL
- * TACK WELDING TO BE PERFORMED PRIOR TO BLASTING AND PAINTING OPERATIONS
- * ALL RAIL ELEMENTS TO BE BLAST CLEANED AND PRIMED PRIOR TO ASSEMBLY
- * AFTER ASSEMBLY, FINAL COAT OF PAINT SHALL BE APPLIED, ANY BLEMISHES OCCURRING INSTALLATION SHALL BE FIXED
- * 3/8" ROD WILL BE TACKED TO OVERSIZED WASHER, TO ALLOW SECTIONS TO BE PRIMED, BEFORE ASSEMBLY SEE SHEET 2

RAILING SYSTEM:



RAILING OVER-ALL

1/4" = 1'-0"

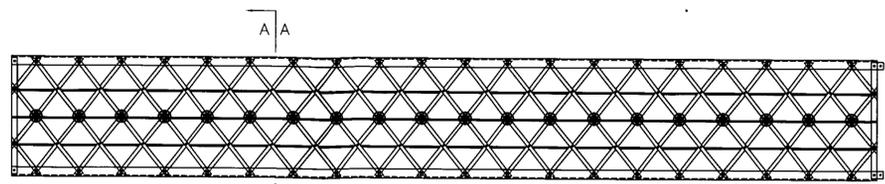
RECEIVED
 OK'D BY _____ OK'D BY *As Not*
 JUL 31 2003
 APPROVED _____
 BY *WJH* DATE *8/6/03*

Renaud Bros. Construction 1000 Main Street (802) 257-7283	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Railing System General Notes & Drawings DRAWN BY: JED CHECKED BY: JED/AD JOB CONTACT: Erick Foster State of VT DATE: 4-30-03	DRAWING NO: R-1 SHEET NO: 1 of 10

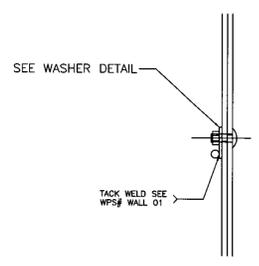
RAILING SYSTEM:



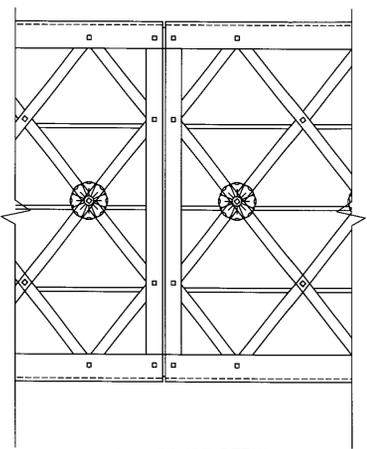
WASHER SELECTION
6"=1'-0" QTY 240



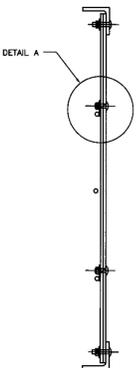
RAIL ASSEMBLY ELEV
1"=1'-0"



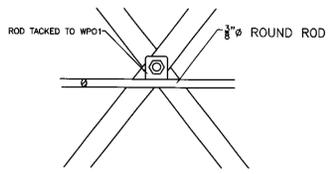
DETAIL A
6"=1'-0"



RAIL SPLICE DETAIL
3"=1'-0"



SECTION A-A
3"=1'-0"

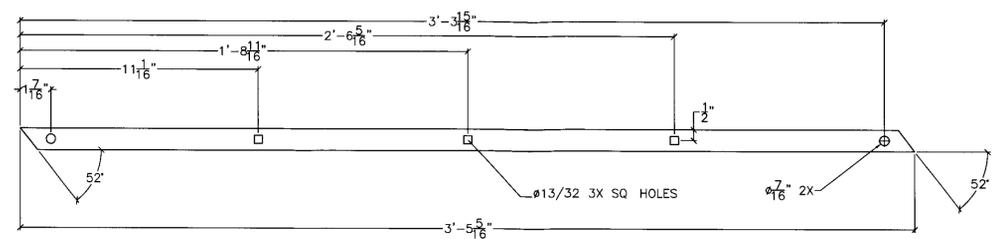


WASHER DETAIL
6"=1'-0"

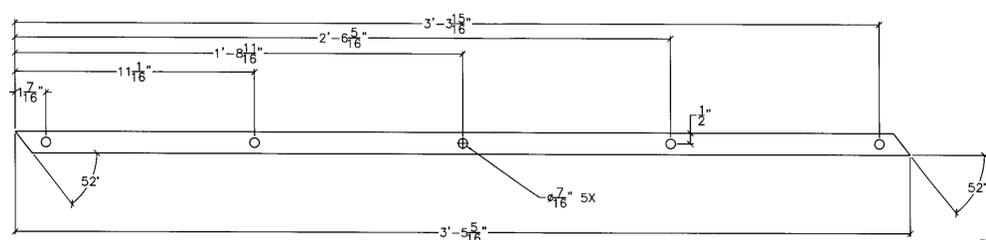
RECEIVED
CHKD BY _____ OK'D BY _____
JUL 31 2004
APPROVED _____
BY *W.B. Sp* DATE *8/4/04*

Pennaud Bros. Construction 1000 W. Main St. Wallingford, VT 05498 (802) 267-7383	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING NO: R-1 SHEET NO: 2 of 10
DRAWING TITLE: Drawings Railing System Drawings DRAWN BY: JED CHECKED BY: JED/JAD	JOB CONTACT: Erick Foster State of VT DATE: 4.30.08

RAILING SYSTEM:



HR01: PLATE-1/4"
 6" = 1'-0" QTY. 216

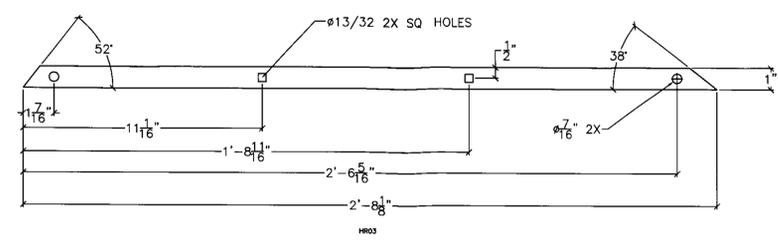


HR02: PLATE-1/4"
 6" = 1'-0" QTY. 216

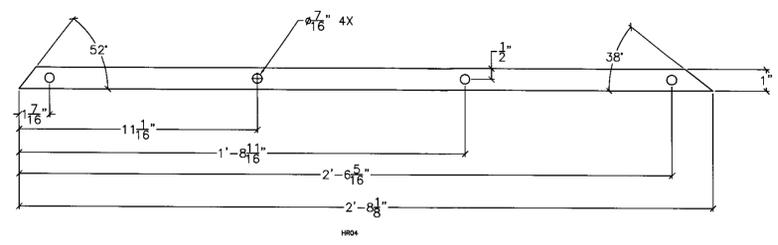
RECEIVED
 CK'D BY _____ OK'D BY _____
 JUL 3 12 2011
 BY *W.A. 9/* APPROVED
 DATE *8/1/11*

Renaud Bros. Construction 1000 Main Street Wallingford, VT 05491 (802) 257-7283	
TITLE Wallingford Bridge Rehab	LOCATION Wallingford, VT
DRAWING TITLE Drawings Railing System Drawings	DRAWN BY: <i>ED</i> JOB CONTACT: Erick Foster State of VT CHECKED BY: <i>ED/AD</i> DATE: 4 30 09
DRAWING NO. R-1	SHEET NO. 3 OF 10

RAILING SYSTEM:



HR03: PLATE-1/4"
 6" = 1'-0" QTY. 24

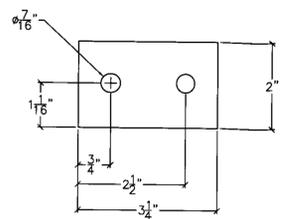
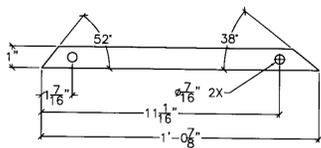


HR04: PLATE-1/4"
 6" = 1'-0" QTY. 24

RECEIVED
 JUL 31 2009
 BY *W.R. S* DATE *8/6/09*

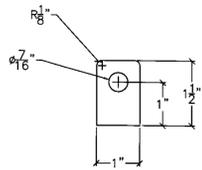
Renaud Bros. Construction 1000 Highway 100 (802) 257-7838	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING NO: R-1
DRAWING TITLE: Drawings Railing System Drawings DRAWN BY: JED JOB CONTACT: Enck Foster State of VT	SHEET NO: 4 OF 10
CHECKED BY: JED/AD DATE: 4.30.09	

RAILING SYSTEM:

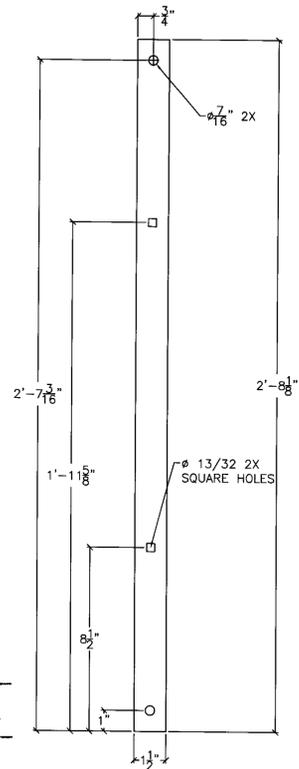


HR05: PLATE-1/4"
6" = 1'-0" QTY. 48

HR08: PLATE-1/4"
1'-0" = 1'-0" QTY. 12



W01: PLATE-1/4"
1'-0" = 1'-0" QTY. 775

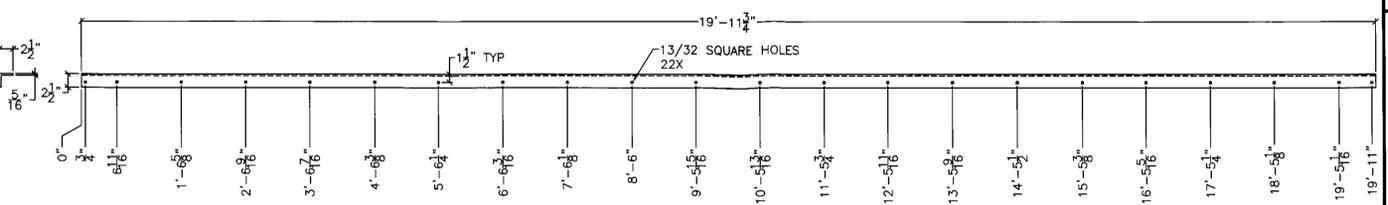


RECEIVED
 OK'D BY _____
 JUL 3 12
 BY *W.P.S.* DATE 8/6/09

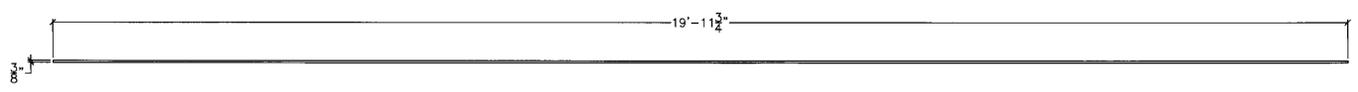
HR09: PLATE-1/4"
6" = 1'-0" QTY. 24

Revised Plot Construction For Paper Plot Only VT 0204 (802) 257-7383	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Railing System Drawings DRAWN BY: JED CHECKED BY: JED/AS	JOB CONTACT: Erick Foster State of VT DATE: 4-30-09
DRAWING NO	R-1
SHEET NO	5 of 10

RAILING SYSTEM:



HR06, HR07: -ANGLE
 1-1/2" = 1'-0" QTY. 24

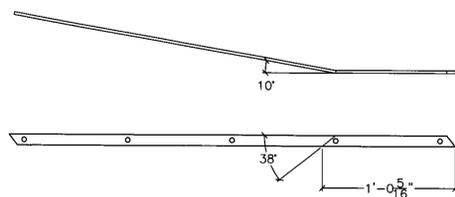


HR10: -3/8 ROUND STOCK
 1-1/2" = 1'-0" QTY. 36

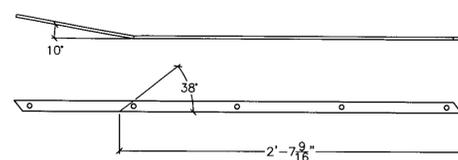
RECEIVED
 JUL 31 2009
 BY: WYB.SJ DATE: 8/6/09

General Dist. Construction Prepared by: Erick Foster (802) 257-7383	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING NO.: R-1
DRAWING TITLE: Drawings Railing System Drawings DRAWN BY: JED CHECKED BY: ED/AD	JOB CONTACT: Erick Foster State of VT DATE: 4-30-09
SHEET NO.: 6 of 10	

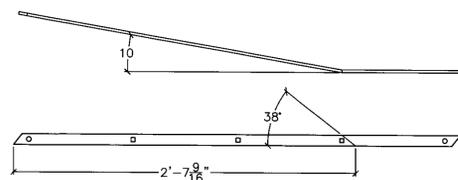
RAILING SYSTEM: FLARED END LEFT



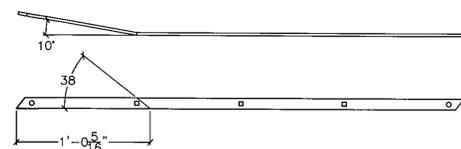
HRO21: LATTICE (USE HRO2)
3" = 1'-0" QTY 2



HRO22: LATTICE (USE HRO2)
3" = 1'-0" QTY 2



HRO11: -LATTICE(USE HRO1)
3" = 1'-0" QTY 2

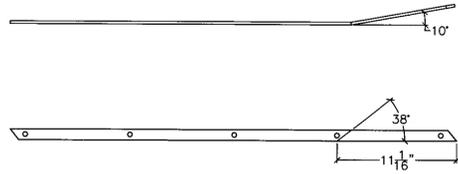


HRO12 -LATTICE (USE HRO1)
3" = 1'-0" QTY 2

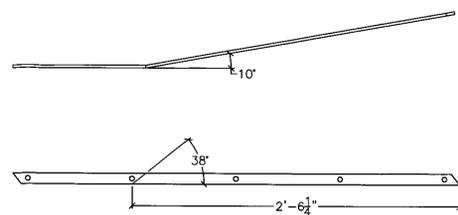
RECEIVED
 CK'D BY _____ OK'D BY _____
 JUL 31 2009
 BY *WYB SJ* DATE *8/1/09*

Revised Base Construction Reinforcing Steel (802) 257-7383	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING NO: R-1
DRAWING TITLE: Drawings Railing System Drawings DRAWN BY: sed CHECKED BY: ED/AD	JOB CONTACT: Erick Foster State of VT DATE: 4 30 09
SHEET NO: 7 OF 10	

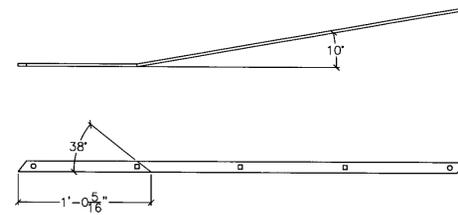
RAILING SYSTEM: FLARED END RIGHT



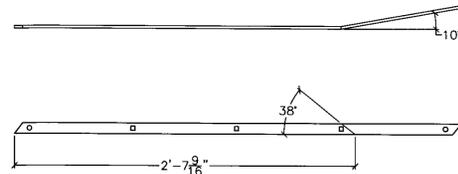
HRO23; LATTICE (USE HRO2)
3" = 1'-0" QTY 2



HRO24; LATTICE (USE HRO2)
3" = 1'-0" QTY 2



HRO13; LATTICE (USE HRO1)
3" = 1'-0" QTY 2

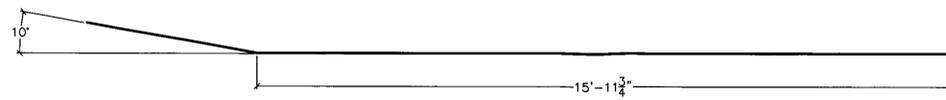


HRO14; LATTICE (USE HRO1)
3" = 1'-0" QTY 2

RECEIVED
 OK'D BY _____ OK'D BY _____
 JUL 31 2009
 BY *wyb* DATE 8/6/09

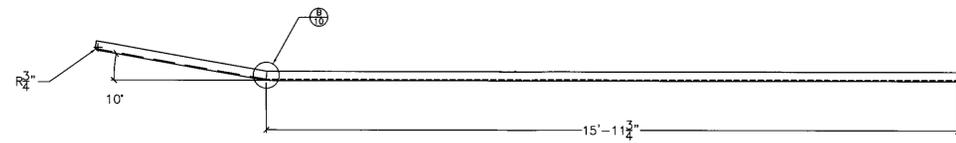
Penland Bros. Construction Penland Bros. Construction (802) 257-7333	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING NO: R-1 SHEET NO: 8 OF 10
DRAWING TITLE: Drawings Rolling System Drawings DRAWN BY: JED CHECKED BY: JED/AD	JOB CONTACT: Eric Foster State of VT DATE: 4 30 09

RAILING SYSTEM:



HR101; 3/8 ROUND STOCK (USE HR10)

1" = 1'-0" QTY 12



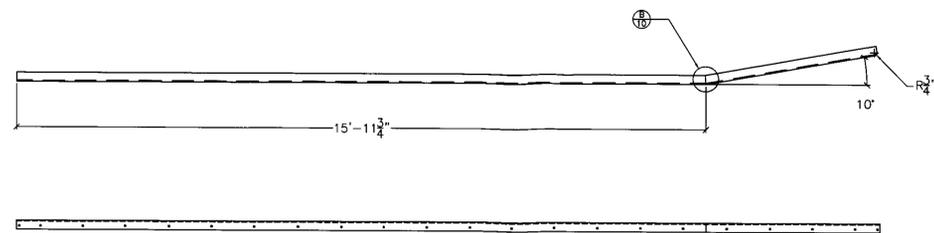
HR081,HR091; ANGLE (USE HR06)

1" = 1'-0" QTY 4

RECEIVED
 OK'D BY _____ OK'D BY _____
 JUL 31 2009
 BY *W.A.S.* DATE *8/2/09*

Renaud Bros. Construction 1000 W. Main St. (802) 257-7383	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING TITLE: Drawings Railing System Drawings DRAWN BY: <i>sed</i> JOB CONTACT: Erick Foster State of VT CHECKED BY: <i>sed/ad</i> DATE: 4 30 09
DRAWING NO: R-1	SHEET NO: 9 of 10

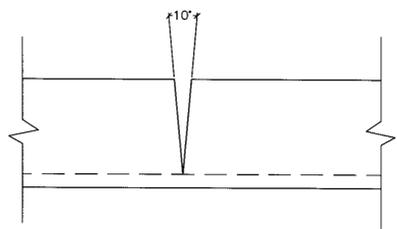
RAILING SYSTEM:



HR082, HR092: -ANGLE (USE HR07)
 1" = 1'-0" QTY 4

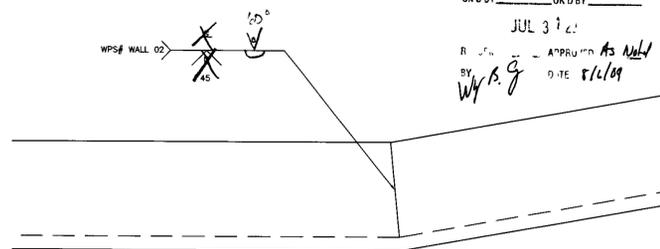
NOTES

- *RELIEF CUT TO BE MADE IN ANGLE, THEN BENT AND WELDED
- *BENDS TO BE PERFORMED COLD, ON A PRESS BRAKE



RELIEF CUT DETAIL

1'-0" = 1'-0"



B
 10 WELD DETAIL AT FLARE
 1" = 1'

Revised Eros Construction 1000 Main Street Wallingford, VT 05491 (802) 257-7283	
TITLE Wallingford Bridge Rehab	LOCATION Wallingford, VT
DRAWING TITLE Drawings Railing System Drawings	DRAWN BY: JED CHECKED BY: JED/AD
JOB CONTACT Erik Feater State of VT	DATE 4 30 09
DRAWING NO. R-1	SHEET NO. 10 of 10

RECEIVED
 OK'D BY: _____ OK'D BY: _____
 JUL 3 2009
 BY: *WJ B. G.* DATE: *8/2/09*