PRELIMINARY INFORMATION SHEET

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REFERENCE SHEET 1 OF 4: ABUTMENT NO. 1
REFERENCE SHEET 2 OF 4: ABUTMENT NO. 2
REFERENCE SHEET 3 OF 4: NEW BRIDGE TYPICAL ALTERNATE C
REFERENCE SHEET 4 OF 4: CURB AND RAIL DETAILS ALTERNATE C

LIST OF STANDARDS

B-5	06-01-94
B-11	06-01-94
C-3A	03-10-08
C-10	02-11-08
D-8	01-03-00
D-9	06-01-94
D-15	06-01-94
D-16	06-01-94
D-30	08-13-07
E-121	08-08-95
E-173	08-09-95
E-180A	08-09-95
E-180B	08-09-95
E-191	02-01-99
E-193	08-18-95
G-1	01-03-00
G-1D	01-03-00
T-1	08-06-12
T-10	08-06-12
T-17	08-06-12
T-24	08-06-12
T-28	08-06-12
T-29	08-06-12
T-30	08-06-12
T-31	08-06-12
T-35	08-06-12
T-36	08-06-12
T-40	08-06-12
T-45	08-06-12

STRUCTURES DETAIL INDEX

SD-501.00	CONCRETE DETAILS AND NOTES 02-09-12
SD-502.00	CONCRETE DETAILS AND NOTES 10-10-12
SD-601.00	STRUCTURAL STEEL DETAILS AND NOTES 06-04-10
SD-602.00	STRUCTURAL STEEL PLATE GIRDER DETAILS AND NOTES 05-02-11

NOTE:
HCL = HORIZONTAL CONTROL LINE

FINAL HYDRAULIC REPORT

HYDROLOGIC DATA

Date: Oct. 2012

DRAINAGE AREA : 38.5 sq. mi.
CHARACTER OF TERRAIN : Hilly to mountainous, mixed land cover.
STREAM CHARACTERISTICS : Natural ledge gorge at site.
NATURE OF STREAMBED : Uneven ledge

PEAK FLOW DATA

Q 2.33 =	1800 cfs	Q 50 =	5000 cfs
Q 10 =	3400 cfs	Q 100 =	6000 cfs
Q 25 =	4300 cfs	Q 500 =	8400 cfs

DATE OF FLOOD OF RECORD : Unknown
ESTIMATED DISCHARGE: Unknown
WATER SURFACE ELEV.: Unknown

NATURAL STREAM VELOCITY : @ Q50 = N/A
ICE CONDITIONS : slight
DEBRIS: slight
DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? Yes
IS ORDINARY RISE RAPID? Yes
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? Yes
IF YES, DESCRIBE: Small dam downstream backs water up through the site.

WATERSHED STORAGE: < 1% HEADWATERS:
UNIFORM: X
IMMEDIATELY ABOVE SITE:

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE: Previous pedestrian bridge has been removed
YEAR BUILT: N/A
CLEAR SPAN(NORMAL TO STREAM): 60'
VERTICAL CLEARANCE ABOVE STREAMBED: 27'
WATERWAY OF FULL OPENING: Approximately 1420 sq. ft.
DISPOSITION OF STRUCTURE: Previously removed
TYPE OF MATERIAL UNDER SUBSTRUCTURE: ledge

WATER SURFACE ELEVATIONS AT:

Q2.33 =	N/A	VELOCITY =	N/A
Q10 =	511.8'	"	N/A
Q25 =	N/A	"	N/A
Q50 =	514.9'	"	N/A
Q100 =	517.0'	"	N/A

LONG TERM STREAMBED CHANGES: Ledge gorge, so minimal changes

IS THE ROADWAY OVERTOPPED BELOW Q100: No
FREQUENCY: Above Q500
RELIEF ELEVATION: 533.9'
DISCHARGE OVER ROAD @Q100: None

UPSTREAM STRUCTURE

TOWN: Jericho DISTANCE: 3500'
HIGHWAY # : TH 17 STRUCTURE #: 40
CLEAR SPAN: 58' CLEAR HEIGHT: 11'
YEAR BUILT: 1966 FULL WATERWAY: N/A
STRUCTURE TYPE: Single span steel beam bridge

DOWNSTREAM STRUCTURE

TOWN: Jericho DISTANCE: 10'
HIGHWAY # : VT 15 STRUCTURE #: 7
CLEAR SPAN: 88' CLEAR HEIGHT: 28'
YEAR BUILT: Built 1929, Rehab. 1972 & 1996 FULL WATERWAY: N/A
STRUCTURE TYPE: Single span steel beam bridge

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR.	4A STR.	5A SEMI
TONNAGE							
INVENTORY							
POSTING							
OPERATING							
COMMENTS:							

TRAFFIC DATA

YEAR	ADT	DHV	%D	%T	ADTT

20 year ESAL for flexible pavement from 2012 to 2032 :
40 year ESAL for flexible pavement from 2012 to 2052 :
Design Speed: mph

PROPOSED STRUCTURE

STRUCTURE TYPE: Single span pedestrian bridge

CLEAR SPAN(NORMAL TO STREAM): 68'
VERTICAL CLEARANCE ABOVE STREAMBED: 27'
WATERWAY OF FULL OPENING: Approximately 1470 sq. ft.

WATER SURFACE ELEVATIONS AT:

Q2.33 =	N/A	VELOCITY=	N/A
Q10 =	511.8'	"	N/A
Q25 =	N/A	"	N/A
Q50 =	514.9'	"	N/A
Q100 =	517.0'	"	N/A

IS THE ROADWAY OVERTOPPED BELOW Q100: No
FREQUENCY: Above Q500
RELIEF ELEVATION: 533.9'
DISCHARGE OVER ROAD @Q100: None

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: 533.0'
VERTICAL CLEARANCE: @ Q50 = 18.1'

SCOUR: N/A. Abutments are on solid ledge above the Q500.

REQUIRED CHANNEL PROTECTION: None needed

PERMIT INFORMATION

AVERAGE DAILY FLOW:	N/A	DEPTH OR ELEVATION:
ORDINARY LOW WATER:	N/A	N/A
ORDINARY HIGH WATER:	N/A	N/A

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: No temporary bridge required.
CLEAR SPAN (NORMAL TO STREAM): N/A
VERTICAL CLEARANCE ABOVE STREAMBED: N/A
WATERWAY AREA OF FULL OPENING: N/A

ADDITIONAL INFORMATION

This bridge spans a ledge gorge and is above the Q500. No hydraulic study was done for this project. Peak flow values are from a 1993 study of VT 15 Bridge 7. Reported water surface elevations are from the 1980 Jericho Flood Insurance Study.

DESIGN CRITERIA

1. DESIGN LIVE LOAD AASHTO PEDESTRIAN
2. DESIGN SPAN 70'
3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL N/A
   ON LEDGE 10 TSF
4. ALLOWABLE LOAD FOR PILING N/A
   TYPE N/A
   ESTIMATED LENGTH N/A
5. STRUCTURAL STEEL AASHTO M270M/M270 GRADE 50 WEATHERING
6. REINFORCING STEEL GRADE 60
7. CONCRETE, HIGH PERFORMANCE CLASS A f'c: 4000 psi
   CONCRETE, HIGH PERFORMANCE CLASS B f'c: 3500 psi
8. DESIGN SOIL UNIT WEIGHT 140 pcf
9. DESIGN LOAD FOR SPREAD FOOTINGS ON SOIL N/A

TRAFFIC MAINTENANCE

1. IS TRAFFIC TO BE MAINTAINED? YES
   IF YES, ON EXISTING STRUCTURE? YES, ON ADJACENT BRIDGE NO. 7
   OR ON TEMPORARY BRIDGE? N/A
   ONE OR TWO-WAY TRAVEL? N/A
2. TRAFFIC CONTROL SIGNALS REQUIRED? NO
3. ARE SIDEWALKS REQUIRED? NO
   IF SO, ON WHAT SIDE? N/A

PROJECT NAME: JERICHO
PROJECT NUMBER: STP FTBR (3)

PROJECT LEADER: M. SARGENT
DESIGNED BY: D. D'AMATO
PRELIMINARY INFORMATION SHEET

PLOT DATE: 4/7/2014
DRAWN BY: D. D'AMATO
CHECKED BY: T. PAPILE
SHEET 2 OF 62

FILE NAME = V:\Projects\ANY\K2\21113\CADD\MSTN\06F0024\Consultants\x06f0024pis.dgn
DATE/TIME = 4/7/2014
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