

PRELIMINARY INFORMATION SHEET

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STANDARDS

E-100	CONSTRUCTION APPROACH SIGNS	1/2/2004
E-100A	SIDE ROAD CONSTRUCTION - APPROACH SIGNS	1/2/2004
E-101	CONSTRUCTION SIGN DETAILS	5/30/2003
E-102	CONSTRUCTION SIGN DETAILS	6/30/2003
E-102A	CONSTRUCTION SIGN DETAILS	5/1/2004
E-106	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	3/1/2004
E-107	DELINEATION, BARRICADES AND DETOURS FOR U-TURNS ON DIVIDED HIGHWAY	6/30/2003
E-107A	BREAKAWAY BARRICADE DETAILS	8/8/1995
E-108	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	8/18/1995
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	8/8/1995
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	8/8/1995
E-140	REGULATORY SIGN DETAILS	8/30/1996
E-142	REGULATORY SIGN DETAILS	9/20/1995
E-152	WARNING SIGN DETAILS	5/1/2004
E-153	WARNING SIGN DETAILS	5/1/2004
E-154	WARNING SIGN DETAILS	5/1/2004
E-160	FLANGED CHANNEL STEEL SIGN POST	5/20/1999
E-170	TRAFFIC CONTROL SIGNALS PEDESTAL POST MOUNTED	11/4/1999
E-171A	TRAFFIC CONTROL SIGNALS GENERAL NOTES & DETAILS	8/9/1995
E-171B	TRAFFIC CONTROL SIGNALS MISC. DETAILS	8/9/1995
E-171C	TRAFFIC CONTROL SIGNALS CANTILEVER MOUNTING DETAILS	8/9/1995
E-172	VEHICLE DETECTOR LOOP DETAILS	8/9/1995
E-175	POWER DROP STANCHIONS	11/17/1993
E-193	PAVEMENT MARKING DETAILS	8/18/1995
G-1	STEEL BEAM GUARDRAIL (50MPH & OVER) HEAVY DUTY STEEL BEAM GUARDRAIL TWISTED END TERMINAL ANCHOR FOR STEEL BEAM RAIL	1/3/2000
G-1D	STEEL BEAM GUARDRAIL (40MPH & LESS) HEAVY DUTY STEEL BEAM GUARDRAIL STEEL BEAM MEDIAN BARRIER ANCHOR FOR STEEL BEAM RAIL	1/3/2000
G-18	PRECAST CONCRETE TEMPORARY TRAFFIC BARRIER	6/1/1994
G-19	GENERIC GRADING PLANS FOR GUARDRAIL END TERMINALS	11/15/2002
SB-R6-82	BRIDGE RAILING - HEAVY DUTY STEEL BEAM	1/6/1995
SB-R7-90	BRIDGE RAILING - HEAVY DUTY STEEL BEAM	1/11/1995

FINAL HYDRAULIC REPORT

HYDROLOGIC DATA Date: 1/2/2003

DRAINAGE AREA : 3.9 square miles

CHARACTER OF TERRAIN : _____

STREAM CHARACTERISTICS : _____

NATURE OF STREAMBED : _____

PEAK FLOW DATA

Q 2.33 = 145 cfs Q 50 = 600 cfs

Q 10 = 360 cfs Q 100 = 675 cfs

Q 25 = 480 cfs Q 500 = _____

DATE OF FLOOD RECORD : N/A

ESTIMATED DISCHARGE : _____

WATER SURFACE ELEV. : _____

NATURAL STREAM VELOCITY : _____

ICE CONDITIONS : _____

DEBRIS : _____

DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? _____

IS ORDINARY RISE RAPID? _____

IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? _____

IF YES, DESCRIBE : _____

WATERSHED STORAGE : _____ HEADWATERS : _____

UNIFORM : _____ X

IMMEDIATELY ABOVE SITE : _____

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE: Slab Bridge

YEAR BUILT: 1938

CLEAR SPAN(NORMAL TO STREAM): 16

VERTICAL CLEARANCE ABOVE STREAMBED: 5

WATERWAY OF FULL OPENING: 70

DISPOSITION OF STRUCTURE: _____

TYPE OF MATERIAL UNDER SUBSTRUCTURE: _____

WATER SURFACE ELEVATIONS AT:

Q2.33 = _____ VELOCITY = _____

Q10 = _____ " _____

Q25 = _____ " _____

Q50 = _____ " _____

Q100 = _____ " _____

LONG TERM STREAMBED CHANGES: _____

IS THE ROADWAY OVERTOPPED BELOW Q100: NO

FREQUENCY: _____

RELIEF ELEVATION: _____

DISCHARGE OVER ROAD @Q100: _____

UPSTREAM STRUCTURE

TOWN: Fairfield DISTANCE: _____

HIGHWAY #: 55 STRUCTURE #: 17

CLEAR SPAN: _____ CLEAR HEIGHT: _____

YEAR BUILT: 1971 FULL WATERWAY: 43 sq. ft

STRUCTURE TYPE: 9' Culvert

DOWNSTREAM STRUCTURE

TOWN: _____ DISTANCE: _____

HIGHWAY #: _____ STRUCTURE #: _____

CLEAR SPAN: _____ CLEAR HEIGHT: _____

YEAR BUILT: _____ FULL WATERWAY: _____

STRUCTURE TYPE: _____

LFD LOAD RATING (TONS)

LOADING LEVELS	TRUCK						
	H	HS	3S2	6 AXLE	3A STR.	4A STR.	SA SEMI
INVENTORY	25	45					
POSTED	35	63	79		44	47	78
OPERATING		76	94	85	52	56	

COMMENTS: 0

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2006	2700	340	66	2	60
2026	3800	450	66	1	70

20 year ESAL for flexible pavement from 2006 to 2026 : 467,000

20 year ESAL for flexible pavement from 2006 to 2046 : 1,164,000

Design Speed : 50 MPH-km/h

PROPOSED STRUCTURE

STRUCTURE TYPE: Slab Bridge

CLEAR SPAN(NORMAL TO STREAM): 18 ft

VERTICAL CLEARANCE ABOVE STREAMBED: 7 ft

WATERWAY OF FULL OPENING: 80 sf

HEAD WATER SURFACE ELEVATIONS AT:

Q2.33 = 657.0 ft. VELOCITY= _____

Q10 = 658.0 ft. " _____

Q25 = 658.6 ft. " _____

Q50 = 658.9 ft. " _____

Q100 = 660.2 ft. " _____

IS THE ROADWAY OVERTOPPED BELOW Q100: NO

FREQUENCY: _____

RELIEF ELEVATION: _____

DISCHARGE OVER ROAD @Q100: None

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: 661.0 ft.

VERTICAL CLEARANCE: 7 ft

SCOUR: 6 Feet of Contraction Scour @ Q 500

REQUIRED CHANNEL PROTECTION: Type III Stone Fill

PERMIT INFORMATION

AVERAGE DAILY FLOW: 8 cfs DEPTH OR ELEVATION: _____

ORDINARY LOW WATER: 4 cfs 0.3 ft.

ORDINARY HIGH WATER: 60 cfs 3.5 ft.

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: N/A

CLEAR SPAN (NORMAL TO STREAM): _____

VERTICAL CLEARANCE ABOVE STREAMBED: _____

WATERWAY AREA OF FULL OPENING: _____

ADDITIONAL INFORMATION

Tailwater Elevation @ Q 50 = 657.3 ft.

Outlet Velocity @ Q 50 = 10.3 fps

DESIGN CRITERIA

- DESIGN LIVE LOAD AASHTO: HS-25
- DESIGN SPAN: 21'-0"
- ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL: 7 KSF
- ALLOWABLE LOAD FOR PILING: N/A
- ESTIMATED LENGTH: _____
- STRUCTURAL STEEL AASHTO GRADE: N/A
- REINFORCING STEEL GRADE: 60
- CONCRETE, HIGH PERFORMANCE CLASS A f'c : 4000 psi
- CONCRETE, HIGH PERFORMANCE CLASS B f'c : 3500 psi
- SOIL UNIT WEIGHT: 140 pcf
- DESIGN LOAD FOR SPREAD FOOTINGS ON SOL: 3.3 KSF

TRAFFIC MAINTENANCE

- IS TRAFFIC TO BE MAINTAINED? YES
- IF YES, ON EXISTING STRUCTURE YES
- OR ON TEMPORARY BRIDGE NO
- TEMPORARY BRIDGE REQUIREMENTS: ONE OF TWO WAY TRAFFIC CONTROL SIGNALS REQUIRED YES
- MINIMUM CLEAR SPAN (NORMAL TO STREAM): _____
- WATERWAY OF FULL OPENING: _____
- VERTICAL CLEARANCE ABOVE STREAMBED: _____
- ARE SIDEWALKS REQUIRED? NO
- IF SO, ON WHAT SIDE? _____
- STRUCTURE TYPE: _____

PROJECT NAME: Fairfield

PROJECT NUMBER: AC STP ST 0298(6)

FILE NAME: /PW/01c162/sc182p1.xls PLOT DATE: 4/26/2005

PROJECT LEADER: C. Keller DRAWN BY: J. Reed

DESIGNED BY: J. Reed CHECKED BY: W. B. Symonds

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