PGRM: "RegionA", "RegionB",

PGRM: Contract

PGRM: CWCSNEW

PGRM: Pier

PGRM: Abutment

98h3h1hh 897HL'Lb

1,967'E 167 ohh

Just Ed Brandt on 200 5

| Route 200 St Stream Red Stone | CK | MRM | Dat | e 7/21 | 12 Init | ials Pat | |
|--|---|-------------------------------|---------------|----------------|-------------------|-------------|--------------------|
| Bridge Structure No. 39054040 Loc | ation T | E F | of Ba | manof | 7 000 | 200 | St |
| Bridge Structure No. 5/05/10/10 Loc | talian from | LICI abutman | · K | centerline o | ff MPM e | nd | 21 |
| GPS coordinates: N 44 0 19 3,47 | Datum of co | ordinates: W | GS84 > | NAD27_ | I II IVIKIVI C | nu | |
| Drainage area = St. L 5 Sq. III. | | | | | | | |
| The average bottom of the main channel was | 1. Ift below | v top of guardr | ail at a poin | 12 | ft from lef | t abutment. | |
| Method used to determine flood flows:Freq. | Anal. | drainage area | ratio 🔭 | regional regi | – ression equa | ations. | |
| memor used to determine freed free as: | | | | 0 0 | 5 . | | 8/24 |
| MIS | CELLANE | OUS CONSI | | 1.00 | | | 23 |
| Flows | Q ₁₀₀ = G ₅₀ 1620 | | | Q40 = Q00 2190 | | | 729 |
| Estimated flow passing through bridge | 1620 | | | [73] | | | 5 1300 |
| Estimated road overflow & overtopping | | 0 | | | 449 | | |
| Consideration | Yes | No | Possibly | Yes | No | Possibly | 25 23 |
| Chance of overtopping | | X | | X | | | 160 1000 |
| Chance of Pressure flow | × | | | X | ~ | | |
| Armored appearance to channel | | X | | | \rightarrow | | 100 1077 |
| Lateral instability of channel | | X | | | X | | 1500 (833 |
| | 0 | | | , levet | Mien dro | ip under | 713 |
| Riprap at abutments? Yes | No | Marginal | - uft | of whate | lica abut | ments | 2/126 |
| Evidence of past Scour?Yes | No | Don't know | V heidse | -cention | 200 | | 5 389 |
| Debris Potential?High | Med | Marginal Don't knov Low | subne | rged | | | 10 66 Z 25 1150 |
| Does scour countermeasure(s) appear to have been | | | | | | | 50/1000 |
| | es XN | lo Do | n't know | NA | . 1 | n at | 108 2180 |
| | | | n't know | NΑ | wood been | Hon of | 500 3850 |
| AV • Majorita - Majori | | 1 | | NA - | - Speak Do | ha | |
| OtherY | es MN | 10Do | n't know | NA | abutino | of at at | |
| Bed Material | Classificatio | n Based on M | edian Partic | le Size (Dsn |) | | |
| Bed Material Classification Based on Median Particle Size (D ₅₀) Material Silt/Clay Sand Gravel Cobbles Boulders | | | | | | | |
| With the state of | | | | 64-250 >250 | | | |
| Size range, in mm <0.062 0.062-2 | .00 | 2.00-64 | | 04-250 | | >250 | |
| Comments, Diagrams & orientation of digital photo | tos | | | | | | |
| Diff ob | | | | | | | |
| IJ, IPT | | | | | | | |
| 2) main channel | | | | | | | |
| 3). right CB 4-Sirisht atuta 6-7), left autrem | | | | | | | |
| 4-Slaight atout | nett | | | | | | |
| 6-7), left alutner | 7 | | | | | | |
| 81, main channe |) | | | | | | |
| Summary of Results | | | | | | | 20- |
| | Q100 Qse | | | Q500 Qice | | | |
| Bridge flow evaluated | 1620 | | | 1731 | | | |
| Flow depth at left abutment (yaLT), in feet | 2.7 | | | 3.0 | | | 1 |
| Flow depth at right abutment (yaRT), in feet | 2.7 | | | 3,0 | | | |
| Contraction scour depth (ycs), in feet | 13.0 | | | 13.7 | | | |
| Pier scour depth (yps), in feet | | NA. | | | N/X | | |
| Left abutment scour depth (yas), in feet | 16.4 | | | 17.2 | | | _ |

10

17.2

ic

Right abutment scour depth (yas), in feet

1Flow angle of attack