



BRIDGE SUMMARY SHEET

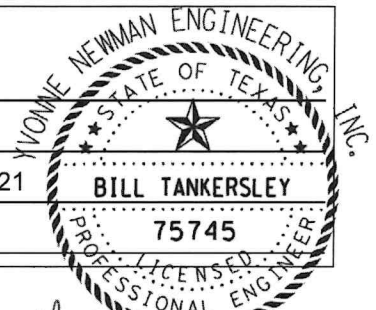
District: 16 County: 137 Control - Section: B008 - 40 Structure #: 001 Route: 6TH STREET
 Feature Crossed: TRANQUITAS CREEK Inspector's Signature: Bill Tankersley Date: 3/8/2021
 Company Name and Company Number: Yvonne Newman Engineering, Inc. [F-101] Bridge Owner: City of Kingston

Selected Component Description and Rating:	Inspection Rating (1085)	Inventory Rating		Operating Rating	
		H	HS	H	HS
Concrete Flat Slab Bridge (Assume HS 15)	6		15		20

Comments and/or Upgrade Recommendations (if applicable):

1. Remove loose and delaminated concrete from soffit of flat slabs. Clean and patch all resulting spalled areas.

2. Remove loose and delaminated concrete from pier walls and south abutment wall then clean and patch spalls. 04-09-2021



Load Posting Limits for Present Condition (if applicable):

Inventory		Operating		1	2	3	4	5-101	6
_____ lbs Gross	_____ lbs Gross	_____ lbs Gross	_____ lbs Gross	OTHER	WEIGHT LIMIT AXLE OR TANDEM LBS	WEIGHT LIMIT TANDEM AXLE LBS	WEIGHT LIMITS GROSS LBS AXLE OR TANDEM LBS	WEIGHT LIMITS GROSS LBS TANDEM AXLE LBS	LOAD ZONED BRIDGE
_____ lbs Tandem Axle	_____ lbs Tandem Axle	_____ lbs Tandem Axle	_____ lbs Tandem Axle		R12-2bT	R12-2cT	R12-4Tb	R12-4Tc	
_____ lbs Axle or Tandem	_____ lbs Axle or Tandem	_____ lbs Axle or Tandem	_____ lbs Axle or Tandem						W12-5T
_____ Sign Code	_____ Sign Code	_____ Sign Code	_____ Sign Code						

Posting Recommendation: Load Posting Not Required

Previous Load Posting Recommendations:

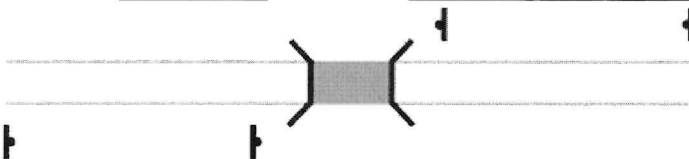
_____ R12-2bT	<u>X</u>	None
_____ R12-2cT		lbs Gross
_____ R12-4Tb		lbs Tandem Axle
_____ R12-4Tc		lbs Axle or Tandem

Observed Load Posting at Bridge:

_____ R12-2bT	<u>X</u>	None
_____ R12-2cT		lbs Gross
_____ R12-4Tb		lbs Tandem Axle
_____ R12-4Tc		lbs Axle or Tandem

Material Needed

- _____ - R12-2bT
- _____ - R12-2cT
- _____ - R12-4Tb
- _____ - R12-4Tc
- _____ - W12-5
- _____ - Posts
- _____ - Hardware Sets
- _____ - Decals



Advanced Warning (optional)	Bridge Approach	Bridge Approach	Advanced Warning (optional)
Sign Code			
Condition Code			
Maintenance Need			

- | | | | | |
|---------------------------|--------------------------|------------------------|---------------------------|------------------------|
| A. Visible & Legible | D. Improper Position | G. Sign Missing | K. Clean Sign | N. None |
| B. Obscured by Vegetation | E. Damaged Beyond Repair | H. Sign & Post Missing | L. Reposition Sign | P. Replace Sign |
| C. Sign Needs Cleaning | F. Sign Down | J. Clear Vegetation | M. Reposition Sign & Post | S. Replace Sign & Post |



BRIDGE INSPECTION RECORD

Structure Number	161370B00840001	Inspector	Tankersley, Bil
Facility Carried	6TH STREET	Inspection Date	03/08/2021
Feature Intersected	TRANQUITAS CREEK	Maint. Section	

Condition Rating	Description*
N	Not Applicable
9	Excellent Condition
8	Very Good Condition - no problems noted
7	Good Condition - some minor problems
6	Satisfactory Condition - minor deterioration of structural elements (limited)
5	Fair Condition - minor deterioration of structural elements (extensive)
4	Poor Condition - deterioration significantly affects structural capacity
3	Serious Condition - deterioration seriously affects structural capacity, local failures possible
2	Critical Condition - advance deterioration of primary elements, bridge should be closed until repaired
1	Failing Condition - bridge closed but repairable
0	Failed Condition - bridge closed and beyond repair

*These descriptions are for items 58, 59, 60 and 65. Code Items 61 and 62 according to the TxDOT Coding Guide.

Bridge Description:
6 Simple Span Concrete Slab Bridge on Concrete Pile Bents

Seal:

Signature & Date:
Bill Tankersley

Prime Firm Name & Number:
Yvonne Newman Engineering, Inc. [F-101]

Sub Firm Name & Number:

General Comments:

6 Spans: 22' each

Surveyed: North to South

**DECK
(ITEM 58)**

Structure ID: 161370B00840001 Inspection Date: 03/08/2021
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Component	Description	Min.	Rating	Comment
Deck - Component Rating		1	7	
Wearing Surface	ACP	6	7	Top surface of deck/slabs is not visible due to presence of asphalt. Assume typical minor cracks in concrete. Soffit is rated under "Superstructure". A couple of minor cracks in asphalt at north end of bridge.
Surfacing Thickness:	5 inches			
Fill Height:	inches			
Joints, Expansion, Open		6	N	
Joints, Expansion, Sealed	covered	6	8	
Joints, Other		6	N	
Drainage System		6	8	
Curbs, Sidewalk & Parapets		6	7	Several minor cracks in sidewalk.
Median Barrier		6	N	
Railings		6	8	
Railing Type:	T202			
Railing Protective Coating		7	8	
Delineation		7	N	
Other		-	N	

**SUPERSTRUCTURE
(ITEM 59)**

Structure ID: 161370B00840001 Inspection Date: 03/08/2021
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Component	Description	Min.	Rating	Comment
Main Members - Steel		0	N	
Main Members - Concrete		0	6	Moderate delamination & spalling with exposed & slightly corroded rebar in soffit of flat slab along widening joint at centerline - condition worse in north span (~9 sq. ft.) (photo).

Minor delamination and corner spall in soffit of original section of slab in Span 2 (from north).
Some minor cracking with light efflorescence in soffit of slabs.

Main Members - Timber	0	N
Main Members - Connections	0	N
Floor System Members	1	N
Floor System Connections	1	N
Secondary Members	5	N
Secondary Mem. Connections	5	N
Expansion Bearings	6	8
Fixed Bearings	6	8
Steel Protective Coating	6	N
Other	-	N
Overall Component Rating	6	

**SUBSTRUCTURE
(ITEM 60)**

Structure ID: 161370B00840001 Inspection Date: 03/08/2021
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Component	Description	Min.	Rating	Comment
Abutment Caps		0	N	
Above Ground		0	6	Moderate spalling (~50 sq. ft.) with exposed & slightly corroded rebar in south abutment wall. (photo) Minor honeycombing in south abutment wall as well. Minor vertical cracking (< 1/8 in. wide) in abutment walls.
Below Ground or Foundation		0	8	
Backwalls & Wingwalls		0	7	Minor spall in NW wingwall adjacent to edge of slab. Minor hairline cracking in SW and NW wingwalls.
Intermediate Supports:				
Caps - Concrete		-	6	Minor delamination & spalling along top edges (bearing areas) of original pier walls & widened cap beams at the 2 south bents. (photo)
Caps - Steel		-	N	
Caps - Timber		-	N	
Above Ground - Concrete		-	6	Minor scaling & honeycombing along base of concrete pier walls & piles for interior bents.
Above Ground - Steel		-	N	
Above Ground - Timber		-	N	
Above Ground - Masonry		-	N	
Below Ground or Foundation		-	8	
Collision Protection System		5	N	
Steel Protective Coating		6	N	
Overall Component Rating			6	

**CHANNEL
(ITEM 61)**

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Component	Description	Min.	Rating	Comment
Channel Banks		0	8	
Channel Bed		0	8	
Rip Rap, Toe Walls & Apron		5	7	Some minor cracking of concrete channel lining/riprap.
Dikes		5	N	
Jetties		5	N	
Other		-	N	
Overall Component Rating			7	

**CULVERTS
(ITEM 62)**

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Component	Description	Min.	Rating	Comment
Top Slabs		0	N	
Bottom Slab or Footing		0	N	
Abutments, Intermed. Supports		0	N	
Headwalls & WingWalls		5	N	

Other - N

Overall Component Rating	N
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**APPROACHES
(ITEM 65)**

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Component	Description	Min.	Rating	Comment
Embankments		0	8	
Embankment Retaining Walls		4	N	
Slope Protection		5	8	
Roadway		5	7	Isolated minor cracks in north approach asphalt near end of bridge.
Relief Joints		6	N	
Drainage		6	8	
Guardfence		6	7	Minor impact deflection in NW guardfence section.
Delineation		7	N	
Sight Distance		7	8	
Other		-	N	
Overall Component Rating			7	

MISCELLANEOUS

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Component	Description	Min.	Rating	Comment
Signs		N	N	
Illumination		N	N	
Warning Devices		N	N	
Utility Lines		7	N	
Other		N	8	USGS gauge station at NE corner of bridge.

APPRAISAL RATINGS

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TRAFFIC SAFETY FEATURES (ITEM 36)	Rating	Comment
Bridge Rails:	1	Type T202, Concrete Post and Beam Rail (<= 45 mph) (west side) Type C202, Concrete Parapet & Steel Tube Pedestrian Rail (<= 45 mph) (east side)
0 - Does not meet current standards 1 - Meets current standards N - Not applicable	Transitions:	0 Non-standard transitions
	Appr. Rails:	0 Steel Blockouts
	Appr. Rail Ends:	0 Turndown terminals
WATERWAY ADEQUACY (ITEM 71)	7	11-100 year estimated overtopping frequency
APPROACH ROADWAY ALIGNMENT (ITEM 72)	8	Regulatory 35 mph



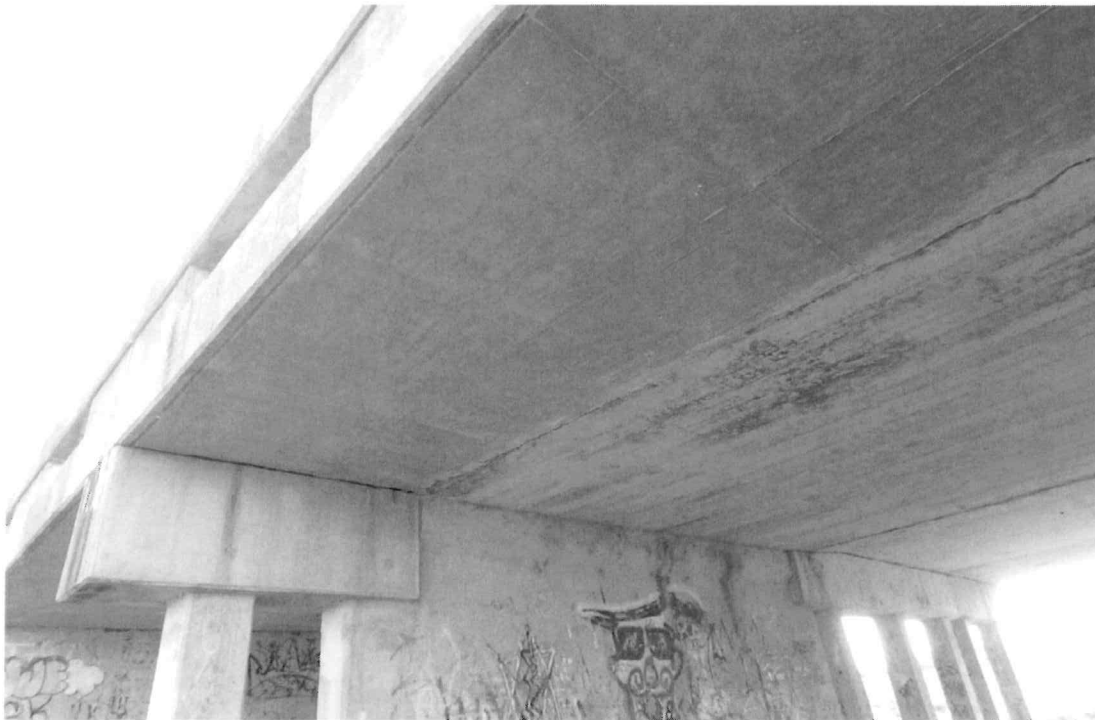
VIEW 1 - ROAD OVER - 6TH STREET LOOKING SOUTH



VIEW 2 - ELEVATION LOOKING SE

STRUCTURE # B008-40-001 : 6TH STREET OVER TRANQUITAS CREEK		
KLEBERG CO. (137)		INSPECTION DATE: 03/08/2021
YVONNE NEWMAN ENGINEERING, INC. [F-101]		
2021 OFF-SYSTEM CYCLE - CORPUS CHRISTI DISTRICT - CONTRACT #88-9IDP5016 / WA#5		

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AND 23 USC SECTION 409, SAFETY SENSITIVE INFORMATION.



VIEW 3 - SUPERSTRUCTURE



VIEW 4 - STREAM UNDER LOOKING EAST

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VIEW 5 - UPSTREAM LOOKING WEST



VIEW 6 - DOWNSTREAM LOOKING EAST

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VIEW 7 - SEVERAL MODERATE SPALL WITH EXPOSED REBAR IN SOUTH ABUTMENT WALL



VIEW 8 - HEAVY SPALL WITH EXPOSED REBAR IN SOFFIT OF SLAB IN NORTH SPAN ALONG CENTER WIDENING JOINT.

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**VIEW 9 - MINOR DELAMINATION & SPALLING ALONG TOP EDGES
(BEARING AREAS) OF ORIGINAL PIER WALLS & WIDENED CAP
BEAMS AT THE 2 SOUTH BENTS.**

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