#### **OKANOGAN COUNTY COMMISSIONERS**

### **RESOLUTION** 77 - 2023

**WHEREAS,** pursuant to RCW 36.81.121, the Legislative Authority of each County, with the advice and assistance of the County Road Engineer, and pursuant to one or more public hearings thereon, shall prepare and adopt a comprehensive program including proposed road, bridge, path and trail construction projects, and any other specified capital outlays for the following six-year period, and;

WHEREAS, the current Priority Programming Array and Bridge Inspection Report have been provided along with the proposed Six-Year Transportation Improvement Program to aid in its evaluation, and;

**WHEREAS**, the proposed program is based on a realistic assessment of available funding for the program period, and;

**WHEREAS,** the proposed program is consistent with the goals and objectives of the Transportation Element of the Okanogan County Comprehensive Plan and the Transportation Element is hereby updated to reflect this current adopted Six Year Transportation Improvement Program, and;

**WHEREAS,** a public hearing was held on July 11, 2023 at 11:00 a.m. for the purpose of gathering public input on the proposed program;

**NOW, THEREFORE BE IT RESOLVED**, that the attached Six-Year Transportation Improvement Program for the years 2024 to 2029 is hereby adopted by Okanogan County as required by R.C.W. 36.81.121.

OKANOGAN, WASHINGTON

**BOARD OF COUNTY COMMISSIONERS** 

Chris Branch, Chairman

Laleña Johns, CMS Clerk of the Board

ATTEST

Andy Hover, Vice Chairman

Jon Neal, Member



Agency: Okanogan Co.
County: Okanogan

MPO/RTPO: OCOG RTPO

N Inside

Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No.  C. Project Title  D. Road Name or Number E. Begin & End Termini F. Project Description  B. STIP  G. Structure | Heari | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|---------------------|--------|---|-------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 07                  |        | STP - 2024 Okanogan County Wide Pavement Preservation  varies to varies  Crack Seal as needed, Pre-Level as needed, Chip Seal.    | 22    |         | v         |                | 05               |               |              | CE                 | No          |

| Funding | Funding |                         |                   |               |                 |             |             |             |  |  |  |  |  |
|---------|---------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|--|
| Status  | Phase   | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |  |
| Р       | CN      | 2024                    | STP(R)            | 500,000       |                 | 0           | 78,035      | 578,035     |  |  |  |  |  |
|         |         |                         | Totals            | 500,000       |                 | 0           | 78,035      | 578,035     |  |  |  |  |  |

| Expenditure Schedule |         |     |     |     |           |  |  |  |  |  |  |
|----------------------|---------|-----|-----|-----|-----------|--|--|--|--|--|--|
| Phase                | 1st     | 2nd | 3rd | 4th | 5th & 6th |  |  |  |  |  |  |
| CN                   | 578,035 | 0   | 0   | 0   | 0         |  |  |  |  |  |  |
| Totals               | 578,035 | 0   | 0   | 0   | 0         |  |  |  |  |  |  |



Agency: Okanogan Co.
County: Okanogan

MPO/RTPO: OCOG RTPO

N Inside

Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No. C. Project Title D. Road Name or Number E. Begin & End Termini F. Project Description | B. STIP ID | Hearing | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|---------------------|--------|--|------------|---------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 07                  | 2      | / E243(005)  | 9309-13    |         |         |           |                | 04               | PT            | 1.200        | CE                 | Yes         |
|                     |        | Cameron Lake Road 3R   |            |         |         |           |                |                  |               |              |                    |             |
|                     |        | 9309   |            |         |         |           |                |                  |               |              |                    |             |
|                     |        | 3.30 to 4.50   |            |         |         |           |                |                  |               |              |                    |             |
|                     |        | Realigned and widen road with HMA or BST, drainage and safety improvements.                              |            |         |         |           |                |                  |               |              |                    |             |

| Funding |       |                         |                   |               |                 |             |             |             |
|---------|-------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|
| Status  | Phase | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |
| S       | CN    | 2024                    | STBG(R)           | 190,600       | CRAB            | 1,269,200   | 0           | 1,459,800   |
|         |       |                         | Totals            | 190,600       |                 | 1,269,200   | 0           | 1,459,800   |

| Expenditure Schedule |           |     |     |     |           |  |  |  |  |  |  |
|----------------------|-----------|-----|-----|-----|-----------|--|--|--|--|--|--|
| Phase                | 1st       | 2nd | 3rd | 4th | 5th & 6th |  |  |  |  |  |  |
| CN                   | 1,459,800 | 0   | 0   | 0   | 0         |  |  |  |  |  |  |
| Totals               | 1,459,800 | 0   | 0   | 0   | 0         |  |  |  |  |  |  |



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County: Okanogan

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N Inside

Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No. C. Project Title D. Road Name or Number E. Begin & End Termini F. Project Description | B. STIP ID | Hearing | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | ⊊          |
|---------------------|--------|--|------------|---------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|------------|
| 00                  | 3      |  | BGRAIL FIT |         |         |           |                | 21               | PT            |              | CE                 | No         |
|                     |        | Bridge Rail Retrofit   |            |         |         |           |                |                  |               |              |                    | ı l        |
|                     |        | Varies   |            |         |         |           |                |                  |               |              |                    | <i>i</i> 1 |
|                     |        | Varies to Varies   |            |         |         |           |                |                  |               |              |                    | <i>i</i> 1 |
|                     |        | Retrofit Bridge Rail   | Varies     |         |         |           |                |                  |               |              |                    |            |

| Funding | inding |                         |                   |               |                 |             |             |             |  |  |  |  |
|---------|--------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|
| Status  | Phase  | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |
| Р       | PE     | 2025                    | HSIP              | 54,000        |                 | 0           | 6,000       | 60,000      |  |  |  |  |
| Р       | CN     | 2026                    | HSIP              | 746,000       |                 | 0           | 0           | 746,000     |  |  |  |  |
|         |        |                         | Totals            | 800,000       |                 | 0           | 6,000       | 806,000     |  |  |  |  |

| Expenditure Schedule |     |        |         |     |           |  |  |  |  |  |  |
|----------------------|-----|--------|---------|-----|-----------|--|--|--|--|--|--|
| Phase                | 1st | 2nd    | 3rd     | 4th | 5th & 6th |  |  |  |  |  |  |
| PE                   | 0   | 60,000 | 0       | 0   | 0         |  |  |  |  |  |  |
| CN                   | 0   | 0      | 651,146 | 0   | 0         |  |  |  |  |  |  |
| Totals               | 0   | 60,000 | 651,146 | 0   | 0         |  |  |  |  |  |  |



Agency: Okanogan Co.

County: Okanogan

MPO/RTPO: OCOG RTPO

N Inside

Y Outside

| Class | Priority Number | riority Numb | A. PIN/Project No.<br>C. Project Title<br>D. Road Name or Number<br>E. Begin & End Termini<br>F. Project Description | B. STIP ID<br>G. Structure ID | Heari | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|-------|-----------------|--------------|--|-------------------------------|-------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 30    |                 | 4            |  | WA-11443                      |       |         |           |                | 04               | OPT           | 1.340        | CE                 | Yes         |
|       |                 |              | Rodeo Trail (Fairgrounds Section)  |                               |       |         |           |                |                  |               |              |                    |             |
|       |                 |              | 3175   |                               |       |         |           |                |                  |               |              |                    |             |
|       |                 |              | 0.960 to 2.30  |                               |       |         |           |                |                  |               |              |                    |             |
|       |                 |              | Reconstruct surface lanes and shoulder widths to limit seasonal weight restrictions.                                 |                               |       |         |           |                |                  |               |              |                    |             |

| Funding | unding |                         |                   |               |                 |             |             |             |  |  |  |  |
|---------|--------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|
| Status  | Phase  | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |
| Р       | PE     | 2024                    | STP(R)            | 142,725       |                 | 0           | 22,275      | 165,000     |  |  |  |  |
| Р       | RW     | 2025                    | STP(R)            | 86,500        |                 | 0           | 13,500      | 100,000     |  |  |  |  |
| Р       | CN     | 2026                    | STP(R)            | 1,427,250     |                 | 0           | 222,750     | 1,650,000   |  |  |  |  |
|         |        |                         | Totals            | 1,656,475     |                 | 0           | 258,525     | 1,915,000   |  |  |  |  |

| Expenditure Schedule |         |         |           |     |           |  |  |  |  |  |  |
|----------------------|---------|---------|-----------|-----|-----------|--|--|--|--|--|--|
| Phase                | 1st     | 2nd     | 3rd       | 4th | 5th & 6th |  |  |  |  |  |  |
| PE                   | 165,000 | 0       | 0         | 0   | 0         |  |  |  |  |  |  |
| RW                   | 0       | 100,000 | 0         | 0   | 0         |  |  |  |  |  |  |
| CN                   | 0       | 0       | 1,650,000 | 0   | 0         |  |  |  |  |  |  |
| Totals               | 165,000 | 100,000 | 1,650,000 | 0   | 0         |  |  |  |  |  |  |



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N Inside

Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No. C. Project Title D. Road Name or Number E. Begin & End Termini F. Project Description | B. STIP ID<br>G. Structure ID | Heari | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|---------------------|--------|--|-------------------------------|-------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 08                  | 5      |  | 9140-07                       |       |         |           |                | 03               | PT            | 0.150        | CE                 | Yes         |
|                     |        | Mazama Intersection  |                               |       |         |           |                |                  |               |              |                    |             |
|                     |        | Lost River Rd  |                               |       |         |           |                |                  |               |              |                    |             |
|                     |        | 0.35 to 0.50   |                               |       |         |           |                |                  |               |              |                    |             |
|                     |        | Alignment, Base Course, Top Course, HMA or BST Asphalt, Stripe and Sign.                                 |                               |       |         |           |                |                  |               |              |                    |             |

| Funding | unding |                         |                   |               |                 |             |             |             |  |  |  |  |
|---------|--------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|
| Status  | Phase  | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |
| Р       | PE     | 2024                    | STP(R)            | 47,575        |                 | 0           | 7,425       | 55,000      |  |  |  |  |
| Р       | RW     | 2025                    | STP(R)            | 12,975        |                 | 0           | 2,025       | 15,000      |  |  |  |  |
| Р       | CN     | 2026                    | STP(R)            | 173,000       |                 | 0           | 27,000      | 200,000     |  |  |  |  |
|         |        |                         | Totals            | 233,550       |                 | 0           | 36,450      | 270,000     |  |  |  |  |

| Expenditure Schedule |        |        |         |     |           |  |  |  |  |  |  |
|----------------------|--------|--------|---------|-----|-----------|--|--|--|--|--|--|
| Phase                | 1st    | 2nd    | 3rd     | 4th | 5th & 6th |  |  |  |  |  |  |
| PE                   | 55,000 | 0      | 0       | 0   | C         |  |  |  |  |  |  |
| RW                   | 0      | 15,000 | 0       | 0   | (         |  |  |  |  |  |  |
| CN                   | 0      | 0      | 200,000 | 0   | C         |  |  |  |  |  |  |
| Totals               | 55,000 | 15,000 | 200,000 | 0   | (         |  |  |  |  |  |  |



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N Inside

Y Outside

| Functional<br>Class | Priority Number | A. PIN/Project No. C. Project Title D. Road Name or Number E. Begin & End Termini F. Project Description | B. STIP ID<br>G. Structure ID | Hearing | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|---------------------|-----------------|--|-------------------------------|---------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 07                  |                 |  | 9425-26                       |         |         |           |                | 04               | PTW           | 1.250        | CE                 | Yes         |
|                     |                 | Loomis Oroville Road   |                               |         |         |           |                |                  |               |              |                    | 1 I         |
|                     |                 | 9425   |                               |         |         |           |                |                  |               |              |                    | 1 I         |
|                     |                 | 6.00 to 7.25   |                               |         |         |           |                |                  |               |              |                    | 1 I         |
|                     |                 | Minor realignment, widening, grading, ballast, top course, and HMA or BST.                               |                               |         |         |           |                |                  |               |              |                    |             |

| Funding | Funding |                         |                   |               |                 |             |             |             |  |  |  |  |
|---------|---------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|
| Status  | Phase   | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |
| Р       | PE      | 2024                    |                   | 0             | CRAB            | 126,000     | 14,000      | 140,000     |  |  |  |  |
| Р       | RW      | 2025                    |                   | 0             | CRAB            | 22,500      | 2,500       | 25,000      |  |  |  |  |
| Р       | CN      | 2026                    |                   | 0             | CRAB            | 1,651,500   | 183,500     | 1,835,000   |  |  |  |  |
|         |         |                         | Totals            | 0             |                 | 1,800,000   | 200,000     | 2,000,000   |  |  |  |  |

| Expenditure Schedule |         |        |           |     |           |  |  |  |  |  |  |
|----------------------|---------|--------|-----------|-----|-----------|--|--|--|--|--|--|
| Phase                | 1st     | 2nd    | 3rd       | 4th | 5th & 6th |  |  |  |  |  |  |
| PE                   | 140,000 | 0      | 0         | 0   | 0         |  |  |  |  |  |  |
| RW                   | 0       | 25,000 | 0         | 0   | 0         |  |  |  |  |  |  |
| CN                   | 0       | 0      | 1,835,000 | 0   | 0         |  |  |  |  |  |  |
| Totals               | 140,000 | 25,000 | 1,835,000 | 0   | 0         |  |  |  |  |  |  |



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N Inside

Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No. C. Project Title D. Road Name or Number E. Begin & End Termini F. Project Description                                    | B. STIP ID<br>G. Structure ID | Heari | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|---------------------|--------|---|-------------------------------|-------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 05                  | 7      |   | WA-12937                      |       |         |           |                | 04               | PTW           | 0.380        | CE                 | No          |
|                     |        | Loomis Oroville Road Drainage   |                               |       |         |           |                |                  |               |              |                    | 1 1         |
|                     |        | 94250   |                               |       |         |           |                |                  |               |              |                    | 1 1         |
|                     |        | 0.280 to 0.660  |                               |       |         |           |                |                  |               |              |                    |             |
|                     |        | Replace 3 Old deteriorated culverts with approximate 10' span culverts. Guardrail modifications maybe required to accommodate the culverts. |                               |       |         |           |                |                  |               |              |                    |             |

| Funding | Funding |                         |                   |               |                 |             |             |             |  |  |  |  |  |
|---------|---------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|--|
| Status  | Phase   | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |  |
| S       | PE      | 2024                    |                   | 0             | CRAB            | 45,000      | 5,000       | 50,000      |  |  |  |  |  |
| S       | CN      | 2025                    |                   | 0             | CRAB            | 315,000     | 35,000      | 350,000     |  |  |  |  |  |
|         |         |                         | Totals            | 0             | ,               | 360,000     | 40,000      | 400,000     |  |  |  |  |  |

| Expenditure Schedule | Expenditure Schedule |         |     |     |           |  |  |  |  |  |  |  |
|----------------------|----------------------|---------|-----|-----|-----------|--|--|--|--|--|--|--|
| Phase                | 1st                  | 2nd     | 3rd | 4th | 5th & 6th |  |  |  |  |  |  |  |
| PE                   | 50,000               | 0       | 0   | 0   | 0         |  |  |  |  |  |  |  |
| CN                   | 0                    | 350,000 | 0   | 0   | 0         |  |  |  |  |  |  |  |
| Totals               | 50,000               | 350,000 | 0   | 0   | 0         |  |  |  |  |  |  |  |



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N Inside

Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No. C. Project Title D. Road Name or Number E. Begin & End Termini F. Project Description                       | B, STIP ID<br>G. Structure ID | Heari | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|---------------------|--------|--|-------------------------------|-------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 05                  | 8      |  | WA-14843                      |       |         |           |                | 03               | PSW           | 1.500        | CE                 | No          |
|                     |        | Old 97 Plata to Ophir 3R   |                               |       |         |           |                |                  |               |              |                    | 1 1         |
|                     |        | 9155   |                               |       |         |           |                |                  |               |              |                    | 1 1         |
|                     |        | 5.35 to 6.85   |                               |       |         |           |                |                  |               |              |                    | 1 1         |
|                     |        | Widening, grading, drainage, full depth reclamation or ballast and top course and<br>HMA. Guardrail installed where warranted. |                               |       |         |           |                |                  |               |              |                    |             |

| Funding | -unding |                         |                   |               |                 |             |             |             |  |  |  |  |  |
|---------|---------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|--|
| Status  | Phase   | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |  |
| S .     | PE      | 2024                    |                   | 0             | CRAB            | 143,100     | 15,900      | 159,000     |  |  |  |  |  |
| S       | CN      | 2028                    |                   | 0             | CRAB            | 1,909,800   | 212,200     | 2,122,000   |  |  |  |  |  |
|         |         |                         | Totals            | 0             |                 | 2,052,900   | 228,100     | 2,281,000   |  |  |  |  |  |

| Expenditure Schedule |         |     |     |     |           |  |  |  |  |  |  |
|----------------------|---------|-----|-----|-----|-----------|--|--|--|--|--|--|
| Phase                | 1st     | 2nd | 3rd | 4th | 5th & 6th |  |  |  |  |  |  |
| PE                   | 159,000 | 0   | 0   | 0   | 0         |  |  |  |  |  |  |
| CN                   | 0       | 0   | 0   | 0   | 2,122,000 |  |  |  |  |  |  |
| Totals               | 159,000 | 0   | 0   | 0   | 2,122,000 |  |  |  |  |  |  |



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N Inside

Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No. C. Project Title D. Road Name or Number E. Begin & End Termini F. Project Description  | B. STIP ID<br>G. Structure ID | Heari | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|---------------------|--------|---|-------------------------------|-------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 07                  | 9      |   | WA-12940                      |       |         |           |                | 04               | PTW           | 1.420        | CE                 | No          |
|                     |        | Old 97 3R 6.85 - 8.27   |                               |       |         |           |                |                  |               |              |                    | 1           |
|                     |        | 9155  |                               |       |         |           |                |                  |               |              |                    | 1           |
|                     |        | 6.85 to 8.27  |                               |       |         |           |                |                  |               |              |                    |             |
|                     |        | Minor realignment within existing right of way, widening, grading, drainage, ballast, top course and HMA or BST. Guardrail may be necessary on short grade section. |                               |       |         |           |                |                  |               |              |                    |             |

| Funding | Funding |                         |                   |               |                 |             |             |             |  |  |  |  |  |
|---------|---------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|--|
| Status  | Phase   | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |  |
| Р       | PE      | 2024                    |                   | 0             | CRAB            | 168,300     | 18,700      | 187,000     |  |  |  |  |  |
| Р       | CN      | 2026                    |                   | 0             | CRAB            | 2,345,400   | 261,000     | 2,606,400   |  |  |  |  |  |
|         |         |                         | Totals            | 0             |                 | 2,513,700   | 279,700     | 2,793,400   |  |  |  |  |  |

| Expenditure Schedule |         |     |           |     |           |  |  |  |  |  |  |
|----------------------|---------|-----|-----------|-----|-----------|--|--|--|--|--|--|
| Phase                | 1st     | 2nd | 3rd       | 4th | 5th & 6th |  |  |  |  |  |  |
| PE                   | 187,000 | 0   | 0         | 0   | 0         |  |  |  |  |  |  |
| CN                   | 0       | 0   | 2,606,400 | 0   | 0         |  |  |  |  |  |  |
| Totals               | 187,000 | 0   | 2,606,400 | 0   | 0         |  |  |  |  |  |  |



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Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No. C. Project Title D. Road Name or Number E. Begin & End Termini F. Project Description | B. STIP ID | Heari | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|---------------------|--------|--|------------|-------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 05                  | 10     | / A240(001)  | WA-12942   |       |         |           |                | 04               | PTW           | 0.830        | CE                 | No          |
|                     |        | Twisp River Road Reconstruction  |            |       |         |           |                |                  |               |              |                    | i           |
|                     |        | 9114   |            |       |         |           |                |                  |               |              |                    | i- 1        |
|                     |        | 2.82 to 3.65   |            |       |         |           |                |                  |               |              |                    |             |
|                     |        | Minor realignment, widening, grading, drainage, base improvement and HMA or BST.                         |            |       |         |           |                |                  |               |              |                    |             |

| Funding | Funding |                         |                   |               |                 |             |             |             |  |  |  |  |  |
|---------|---------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|--|
| Status  | Phase   | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |  |
| S       | CN      | 2024                    | STBG(R)           | 1,157,000     |                 | 0           | 180,572     | 1,337,572   |  |  |  |  |  |
|         |         |                         | Totals            | 1,157,000     |                 | 0           | 180,572     | 1,337,572   |  |  |  |  |  |

| Expenditure Schedule |           |     |     |     |           |  |  |  |  |  |  |
|----------------------|-----------|-----|-----|-----|-----------|--|--|--|--|--|--|
| Phase                | 1st       | 2nd | 3rd | 4th | 5th & 6th |  |  |  |  |  |  |
| CN                   | 1,337,572 | 0   | 0   | 0   | 0         |  |  |  |  |  |  |
| Totals               | 1,337,572 | 0   | 0   | 0   | 0         |  |  |  |  |  |  |



Agency: Okanogan Co.
County: Okanogan

MPO/RTPO: OCOG RTPO

N Inside

Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No. C. Project Title D. Road Name or Number E. Begin & End Termini F. Project Description | B. STIP ID | Heari | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Requir |
|---------------------|--------|--|------------|-------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-----------|
| 07                  | 11     |  | WA-14570   |       |         |           |                | 04               | PTW           | 1.500        | CE                 | No        |
|                     |        | Toroda Creek 0.00 - 1.500 RC   |            |       |         |           |                |                  |               |              |                    |           |
|                     |        | 9495   |            |       |         |           |                |                  |               |              |                    |           |
|                     |        | 0.00 to 1.50   |            |       |         |           |                |                  |               |              |                    |           |
|                     |        | Minor realignment, widening, grading, drainage, base improvements and HMA or BST.                        |            |       |         |           |                |                  |               |              |                    |           |

| Funding | unding |                         |                   |               |                 |             |             |             |  |  |  |  |  |
|---------|--------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|--|
| Status  | Phase  | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |  |
| Р       | PE     | 2024                    | STBG              | 100,000       |                 | 0           | 13,500      | 113,500     |  |  |  |  |  |
| Р       | CN     | 2027                    | STBG              | 1,400,000     |                 | 0           | 18,900      | 1,418,900   |  |  |  |  |  |
|         |        |                         | Totals            | 1,500,000     |                 | 0           | 32,400      | 1,532,400   |  |  |  |  |  |

| Expenditure Schedule |         |     |     |           |           |  |  |  |  |  |  |
|----------------------|---------|-----|-----|-----------|-----------|--|--|--|--|--|--|
| Phase                | 1st     | 2nd | 3rd | 4th       | 5th & 6th |  |  |  |  |  |  |
| PE                   | 113,500 | 0   | 0   | 0         | 0         |  |  |  |  |  |  |
| CN                   | 0       | 0   | 0   | 1,418,900 | 0         |  |  |  |  |  |  |
| Totals               | 113,500 | 0   | 0   | 1,418,900 | 0         |  |  |  |  |  |  |



Agency: Okanogan Co.
County: Okanogan

MPO/RTPO: OCOG RTPO

N Inside

Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No. C. Project Title D. Road Name or Number E. Begin & End Termini F. Project Description  | B. STIP ID<br>G. Structure ID | Heari | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|---------------------|--------|---|-------------------------------|-------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 07                  | 12     |   | WA-15103                      |       |         |           |                | 21               | PTW           | 0.000        | CE                 | No          |
|                     |        | 2025 County Wide Guardrail Safety Project A   |                               |       |         |           |                |                  |               | 1.51         |                    | 1 1         |
|                     |        | various   |                               |       |         |           |                |                  |               |              |                    |             |
|                     |        | various to various  |                               |       |         |           |                |                  |               |              |                    |             |
|                     | 1      | County wide safety project for guardrail installation at key location to protect over<br>embankment hazard. Work will include shoulder stabilization and guardrail<br>installation. |                               |       |         |           |                |                  |               |              |                    |             |

| Funding | Funding |                         |                   |               |                 |             |             |             |  |  |  |  |
|---------|---------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|
| Status  | Phase   | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |
| Р       | PE      | 2024                    | HSIP              | 49,000        |                 | 0           | 5,000       | 54,000      |  |  |  |  |
| Р       | CN      | 2024                    | HSIP              | 730,000       |                 | 0           | 0           | 730,000     |  |  |  |  |
|         |         |                         | Totals            | 779,000       |                 | 0           | 5,000       | 784,000     |  |  |  |  |

| Expenditure Schedule |         |     |     |     |           |  |  |  |  |  |  |
|----------------------|---------|-----|-----|-----|-----------|--|--|--|--|--|--|
| Phase                | 1st     | 2nd | 3rd | 4th | 5th & 6th |  |  |  |  |  |  |
| PE                   | 54,000  | . 0 | 0   | 0   | 0         |  |  |  |  |  |  |
| CN                   | 730,000 | 0   | 0   | 0   | 0         |  |  |  |  |  |  |
| Totals               | 784,000 | 0   | 0   | 0   | 0         |  |  |  |  |  |  |



Agency: Okanogan Co.
County: Okanogan

MPO/RTPO: OCOG RTPO

N Inside

Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No. C. Project Title D. Road Name or Number E. Begin & End Termini F. Project Description | B. STIP ID<br>G. Structure ID | Hearing | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|---------------------|--------|--|-------------------------------|---------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 05                  | 13     |  | WA-14749                      |         |         |           |                | 21               | PT            | 0.930        | CE                 | Yes         |
|                     |        | Eastside Chewuch Road (MP 0.702 - 1.632 Shoulder Widening)   |                               |         |         |           |                |                  |               |              |                    |             |
|                     |        | 9137   |                               |         |         |           |                |                  |               |              |                    |             |
|                     |        | 0.702 to 1.632   |                               |         |         |           |                |                  |               |              |                    |             |
|                     |        | Reconstruct or repave roadway and widen shoulders  |                               |         | 5       |           |                |                  |               |              |                    |             |

| Funding |       |                         |                   |               |                 |             |             |             |
|---------|-------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|
| Status  | Phase | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |
| Р       | PE    | 2025                    | STP               | 121,100       |                 | 0           | 18,900      | 140,000     |
| Р       | RW    | 2026                    | STP               | 86,500        |                 | 0           | 13,500      | 100,000     |
| Р       | CN    | 2028                    | STP               | 1,730,000     |                 | 0           | 270,000     | 2,000,000   |
|         |       |                         | Totals            | 1,937,600     |                 | 0           | 302,400     | 2,240,000   |

| Expenditure Schedule |     |        |        |     |           |  |
|----------------------|-----|--------|--------|-----|-----------|--|
| Phase                | 1st | 2nd    | 3rd    | 4th | 5th & 6th |  |
| PE                   | 0   | 80,000 | 0      | 0   | 0         |  |
| RW                   | 0   | 0      | 50,000 | 0   | 0         |  |
| CN                   | 0   | 0      | 0      | 0   | 2,070,000 |  |
| Totals               | 0   | 80,000 | 50,000 | 0   | 2,070,000 |  |



Agency: Okanogan Co.
County: Okanogan

MPO/RTPO: OCOG RTPO

N Inside

Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No. C. Project Title D. Road Name or Number E. Begin & End Termini F. Project Description | B. STIP ID | Heari | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|---------------------|--------|--|------------|-------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 05                  | 14     |  | WA-14841   |       |         |           |                | 04               | PT            | 0.150        | CE                 | Yes         |
|                     |        | Chesaw Road DR (MP 3.90 - 4.05)  |            |       |         |           |                |                  |               |              |                    |             |
|                     |        | 9480   |            |       | a       |           |                |                  |               |              |                    | 1 1         |
|                     |        | 3.90 to 4.05   | <i>'</i>   |       |         |           |                |                  |               |              |                    | 1 1         |
|                     |        | Replace old deteriorated culvert with a 20'-28' span structure and add guardrail as needed.              |            |       |         |           |                |                  |               |              |                    |             |

| Funding | unding |                         |                   |               |                 |             |             |             |  |  |  |  |
|---------|--------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|
| Status  | Phase  | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |
| S       | PE     | 2024                    |                   | 0             | CRAB            | 76,500      | 8,500       | 85,000      |  |  |  |  |
| S       | RW     | 2024                    |                   | 0             | CRAB            | 18,000      | 2,000       | 20,000      |  |  |  |  |
| S       | CN     | 2028                    | e .               | 0             | CRAB            | 765,000     | 85,000      | 850,000     |  |  |  |  |
|         |        |                         | Totals            | 0             |                 | 859,500     | 95,500      | 955,000     |  |  |  |  |

| Expenditure Schedule |         |     |     |     |           |  |
|----------------------|---------|-----|-----|-----|-----------|--|
| Phase                | 1st     | 2nd | 3rd | 4th | 5th & 6th |  |
| PE                   | 85,000  | 0   | 0   | 0   | 0         |  |
| RW                   | 20,000  | 0   | 0   | 0   | 0         |  |
| · CN                 | 0       | 0   | 0   | 0   | 850,000   |  |
| Totals               | 105,000 | 0   | 0   | 0   | 850,000   |  |



Agency: Okanogan Co.
County: Okanogan

MPO/RTPO: OCOG RTPO

N Inside

Y Outside

| Functional<br>Class | y Numb | A. PIN/Project No.  C. Project Title  D. Road Name or Number E. Begin & End Termini F. Project Description  G. Structure I | Heari | Adopted | Amendment | Resolution No. | Improvement Type | Utility Codes | Total Length | Environmental Type | RW Required |
|---------------------|--------|--|-------|---------|-----------|----------------|------------------|---------------|--------------|--------------------|-------------|
| 05                  | 15     | WA-1484  | 2     |         |           |                | 03               | PSW           | 1.300        | CE                 | No          |
|                     |        | Old 97 2R (MP 18.82 - 20.120   |       |         |           |                |                  |               |              |                    |             |
|                     |        | 9155   |       |         |           |                |                  |               |              |                    |             |
|                     |        | 18.82 to 20.12   |       |         |           |                |                  |               |              |                    |             |
|                     |        | HMA overlay, resetting guardrail as necessary.   |       |         |           |                |                  |               |              |                    |             |

| Funding |       |                         |                   |               |                 |             |             |             |  |  |  |  |
|---------|-------|-------------------------|-------------------|---------------|-----------------|-------------|-------------|-------------|--|--|--|--|
| Status  | Phase | Phase Start Year (YYYY) | Federal Fund Code | Federal Funds | State Fund Code | State Funds | Local Funds | Total Funds |  |  |  |  |
| Р       | PE    | 2024                    |                   | 0             | CRAB            | 91,800      | 10,200      | 102,000     |  |  |  |  |
| Р       | CN    | 2027                    |                   | 0             | CRAB            | 860,400     | 95,600      | 956,000     |  |  |  |  |
|         |       |                         | Totals            | 0             |                 | 952,200     | 105,800     | 1,058,000   |  |  |  |  |

| Expenditure Schedule |         |     |     |         |           |
|----------------------|---------|-----|-----|---------|-----------|
| Phase                | 1st     | 2nd | 3rd | 4th     | 5th & 6th |
| PE                   | 102,000 | 0   | 0   | 0       | 0         |
| CN                   | 0       | 0   | 0   | 956,000 | 0         |
| Totals               | 102,000 | 0   | 0   | 956,000 | 0         |

|                               | Federal Funds | State Funds | Local Funds | Total Funds |
|-------------------------------|---------------|-------------|-------------|-------------|
| Grand Totals for Okanogan Co. | 8,754,225     | 9,807,500   | 1,848,482   | 20,410,207  |

## **Revenue and Expenditure Analysis**

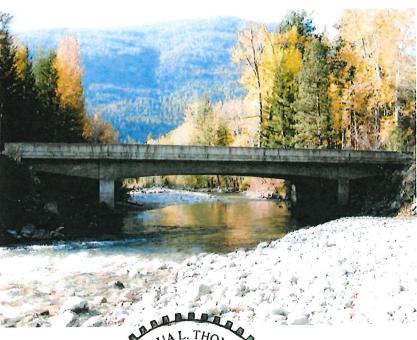
## OKANOGAN County SIX-YEAR TRANSPORTATION IMPROVEMENT PROGRAM **REVENUE AND EXPENDITURE ANALYSIS**

| Co Rd/Co Rd Construction:            | 2024   | 2025                                    | 2026   | 2027 - 2029  |
|--------------------------------------|--|---|--|--|
| REVENUES:                            | i  |   |  |  |
| BEGINNING FUND BALANCE               | 4,500,000  | 3,847,129                               | 2,431,429  | 1,459,992  |
| REAL & PERSONAL PROPERTY TAX         |  | , |  |  |
| LESS CO ROAD DIVERSION               | 5,390,000  | 5,470,850                               | 5,552,913  | 17,158,501   |
| LEVY SHIFT (enter as negative)       |  |   |  |  |
| MOTOR VEHICLE FUEL TAX               | 3,738,951  | 3,813,700                               | 3,890,000  | 12,136,800   |
| CO ARTERIAL PRES PROGRAM             | 630,000  | 642,600                                 | 655,500  | 2,045,200  |
| RURAL ARTERIAL PROGRAM               | 1,370,000  | 370,800                                 | 55,800   | 2,745,000  |
| UATA                                 |  |   |  |  |
| IAC-SALMON RECOVERY FUND             |  |   | The time the state of the state |  |
| FEDERAL - HSIP                       | 48,600   | 657,000                                 | 0  | 0  |
| FEDERAL - BRIDGE REPLACEMENT         | 0  | 0                                       |  |  |
| FEDERAL - STP REGIONAL               | 1,347,600  | 0                                       | 0  | 0  |
| FEDERAL - FOREST YIELD               | 750,000  | 750,000                                 | 750,000  | 2,250,000  |
| FEDERAL - OTHER                      |  |   |  |  |
| WSDOT PARTICIPATION                  | And Alexander State of the Stat |   |  | Comment of the Commen |
| BRIDGE REPLACEMENT PROGRAM           |  |   |  | - Angel Committee of the Committee of th |
| HAZARD ELIMINATION PROGRAM           |  |   |  |  |
| OTHER INTERGOVERNMENT & STATE SHARED | 36,000   | 36,000                                  | 36,000   | 108,000  |
| CHARGES FOR SERVICES                 | 22,000   | 24,000                                  | 25,000   | 75,000   |
| LICENSES & PERMITS                   | 18,000   | 18,000                                  | 18,000   | 54,000   |
| OTHER MISCELLANEOUS REVENUES         | 34,000   | 34,000                                  | 34,000   | 102,000  |
| GENERAL OBLIGATION BOND PROCEEDS     |  |   |  |  |
| PROCEEDS FROM SALE OF FIXED ASSETS   |  |   |  | The second of the second   |
| SPECIAL PURPOSE PATH                 |  |   |  |  |
| PUBLIC WORKS TRUST FUND              |  |   |  |  |
| CRIDS                                | and the state of the second  |   | A SECTION OF THE PROPERTY OF T | The state of the s |
| SEPA                                 |  |   |  |  |
| OPERATING TRANSFER                   | 17,000   | 17,000                                  | 17,000   | 51,000   |
| IMPACT FEES                          |  | MARKET DEO                              |  |  |
| TOTAL REVENUES & FUND BALANCES:      | \$17,902,151   | \$15,681,079                            | \$13,465,642   | \$38,185,493   |



# OKANOGAN COUNTY DEPARTMENT OF PUBLIC WORKS

## 2022 BRIDGE CONDITION INSPECTION REPORT



OF WASHINGTON ACTION OF WASHINGTON OF

July 6, 2023

Josh Thomson, P.E.

Director/County Engineer

EXPIRES 06/28/ 2024

Date

Bridge Inspection Team Leader, G1614

### I. INTRODUCTION

The 2022 Bridge Condition Inspection Report summarizes the status of bridges owned, operated and maintained by Okanogan County, and is prepared under the direction of the County Engineer in accordance with WAC 136-20-060. This Report is for your use during preparation of the Six Year Transportation Improvement Program. This report is based upon the most current data available in our bridge files.

Contained within this report are descriptions of the ongoing bridge inspection efforts and current findings, bridge load restrictions and emergency repairs undertaken through December 31, 2022. Maintenance accomplished and recommended replacement or rehabilitation projects will be described within.

### II. BRIDGE INSPECTIONS

Federal Highway Administration (FHWA) requirements mandate that public agencies inspect and report on all bridges (vehicle carrying structures with a span length of greater than twenty feet) at least once every twenty-four months. The purpose of routine inspections is to evaluate and record the current condition of the bridge, determine the degree of wear and deterioration, and recommend repairs or needed services. The inspections are also to ensure and maintain public safety and confidence and to protect the traveling public's investments.

The County Engineer, Josh Thomson, is a licensed Civil Professional Engineer and became certified as a bridge inspector/team leader in 2016.

### 1. Routine Bridge Inspections

Okanogan County has a total of 52 bridges subject to the National Bridge Inspection Standards (NBIS). Okanogan County also performs NBIS inspections on seven small structure with spans less than 20 feet, and the Similkameen Trail bridge, which is not subject to NBIS inspection standards because it is a non-highway structure. Of those 60 county-owned bridges, inspections were performed on 37 bridges including six small structures during the 2022 inspection season. Inspections are also performed on nine city bridges for the cities of Okanogan, Tonasket and Conconully when scheduled; four were inspected for Conconully and one for Tonasket in 2022. Riverside's two bridges are inspected by WSDOT. Federal regulations require that NBIS bridges receive a routine safety inspection once every 24 months. Certain conditions in the NBIS standards allow less frequent inspection, but Okanogan County has elected to not exceed 24 months. Some of Okanogan County's bridges are inspected every 12 months due to deficiencies or damage that justify more frequent inspection.

When a bridge inspector identifies an actual or potential problem, the bridge must be further evaluated to determine whether or not it should be considered scour critical.

All of Okanogan County's bridges have been evaluated and only bridge, C-5, West Fork Buttermilk Creek Road over Twisp River, is determined to be scour critical at this time. This bridge appears to be stable, but was constructed on a footing from a previous bridge. The depth of the footing is unknown, hence the designation. This bridge is inspected every 12 months, and is monitored after high water to identify any issues.

### V. BRIDGE RESTRICTIONS

A load rating is performed for each bridge in the NBIS inventory by a professional structural engineer in accordance with federal and state regulations. A bridge load rating is the measure of the bridge's load carrying capacity. There are two capacity levels that bracket this ability, the Inventory Rating and the Operating Rating. The Inventory Rating is the load that a bridge can carry for an indefinite number of load cycles without detriment to the bridge. The Operating Rating is the maximum load that can be carried on an infrequent basis without detriment to the bridge.

The NBIS requires the posting of load limits or restrictions on a bridge when the load rating factor for the legal load is less than 1. Load ratings have historically been calculated using six standard truck configurations to check the capacity levels. Three of the truck configurations represent common legal loads, the forth is a national standard truck and the fifth and sixth represent overload vehicles.

Recently the Federal Highway Administration has added truck configurations that must be calculated for bridge load ratings. "Group 1" bridges were required to be load rated for Special Hauling Vehicles (SHVs) by the end of 2017, and "Group 2" bridges by the end of 2022. Okanogan County has 14 group 1 bridges that were load rated in 2017, Okanogan has three, and Tonasket has one. Conconully has three group 1 bridges that were load rated in 2019. Thirty-one group 2 county bridges and one City of Okanogan were load rated in 2022. SHVs are closely spaced multi-axle single unit trucks introduced by the trucking industry in the last decade, and are designated as SU4, SU5, SU6, and SU7 corresponding to the number of axles on the truck. Examples include dump trucks, construction vehicles, solid waste trucks and other hauling trucks with more than two drive axles and/or multiple drop axles not represented in the original six configurations.

Six bridges in Okanogan County and two in the City of Okanogan were posted with load restrictions in 2017, and one in 2022 due to the load ratings required by FHWA. You will note in Appendix A that the Keystone bridge has a sufficiency rating of 58.84, Gate Creek is at 65.68, Similkameen at Oroville is at a 51.68 and the rest are 70 or higher. The reduced load ratings are not necessarily an indication of poor condition, but of loads imposed that the structures were not designed for. The load rating cover sheets for bridges requiring load restrictions are included as Appendix B for reference.

### VIII. COMPLETED PROJECTS

Replacement of B-4 on Park City Loop Rd began in October of 2021 and was completed in the spring of 2022.

### IX. CURRENT PROJECTS

RAP funding was secured in 2019 to replace an undersized box culvert on Salmon Creek Rd at milepost 3.05. Design work began in late 2019, and construction started in the fall of 2022, with final completion rolling into the following spring. The old concrete box culvert with approximate 11' span and 6' height was replaced with a concrete three-sided box culvert with a 30' span, and will reduce the occurrence of roadway flooding.

Federal bridge funds were secured in 2021 to rehabilitate the deteriorating concrete deck and repaint the steel girders on C-8, the Twisp River bridge on Twisp River Rd. Construction is scheduled in 2023.

RAP funding was applied for in 2022 to replace an 8' culvert carrying Tonasket Creek under Chesaw Rd at milepost 3.97. This new structure will likely be over 20' span.

### X. RECOMMENDED PROJECTS

Three temporary culverts were placed under Hosheit Rd in 2017 to reopen the road after Tunk Creek washed out the previous culvert. This temporary situation needs to be remedied with a larger structure which will likely exceed 20' span. This project is likely to cost \$700,000 to \$900,000 based on current WDFW requirements, though there is a possibility a less traditional structure costing less could be permitted.

Appendix A 2022 Bridge Condition Report

| Bridge Number | Bridge Name                     | Status | NBI Reportable | Sufficiency Rating | Deficiency Status | Year Built | Year Rebuilt | Structure Length | Traffic ADT | Last Inspection Date | Inspection Freq. (Mo) | Notes                    |
|---------------|---------------------------------|--------|----------------|--------------------|-------------------|------------|--------------|------------------|-------------|----------------------|-----------------------|--------------------------|
| A-1           | GARLIC FARM BOX CULVERT         | open   | yes            | 97.61              |                   | 2022       |              | 33               | 430         | 20-Jan-23            | 24                    |                          |
| A-2           | SALMON CR. STATLER BRIDGE       | open   | yes            | 99.96              |                   | 2020       |              | 68               | 292         | 20-Oct-22            | 24                    |                          |
| A-3           | SALMON CR. RANDO MANOR          | open   | yes            | 69.13              |                   | 1949       | 1976         | 23               | 430         | 10-Oct-22            | 12                    |                          |
| A-4           | SALMON CREEK HAPPY HILL         | open   | yes            | 79.81              |                   | 1969       |              | 22               | 61          | 10-Oct-22            | 24                    |                          |
| A-5           | SALMON CREEK RUBY-LOWER         | open   | yes            | 77.77              |                   | 1969       |              | 26               | 20          | 10-Oct-22            | 24                    |                          |
| A-6           | SALMON CREEK RUBY-UPPER         | open   | yes            | 92.34              |                   | 1969       |              | 24               | 20          | 10-Oct-22            | 24                    |                          |
| A-7           | CONCONULLY SOUTHEND             | open   | yes            | 77.69              |                   | 1949       |              | 60               | 983         | 10-Oct-22            | 24                    |                          |
| A-8           | SALMON CREEK WEST FORK          | open   | yes            | 83.73              |                   | 1949       | 1979         | 70               | 72          | 10-Oct-22            | 24                    | <i>K</i>                 |
| A-9           | MAIN ST CONCONULLY              | open   | yes            | 66                 |                   | 1976       |              | 38               | 235         | 10-Oct-22            | 24                    | Conconully               |
| A-10          | LAKE ST CONCONULLY              | open   | yes            | 68.78              |                   | 1973       |              | 24               | 260         | 10-Oct-22            | 24                    | Conconully               |
| A-11          | BROADWAY ST CONCONULLY          | open   | yes            | 87.92              |                   | 1982       |              | 26               | 50          | 10-Oct-22            | 24                    | Conconully               |
| A-12          | SILVER ST CONCONULLY            | open   | yes            | 91.77              |                   | 1997       |              | 28               | 50          | 10-Oct-22            | 24                    | Conconully               |
| B-1           | LITTLE NESPELEM RIVER           | open   | yes            | 94.18              |                   | 2014       |              | 63               | 244         | 06-Oct-21            | 24                    |                          |
| B-3           | NO.STAR PARK CITY LOWER         | open   | yes            | 99.95              |                   | 2017       |              | 70               | 51          | 15-Sep-22            | 24                    |                          |
| B-4           | NO. STAR PARK CITY UPPER        | open   | yes            | 99.95              |                   | 2022       |              | 71               | 51          | 19-Jul-22            | 24                    |                          |
| B-5           | PARK CITY MILL CREEK            | open   | yes            | 80.17              |                   | 1958       |              | 26               | 92          | 06-Oct-21            | 24                    |                          |
| B-6           | PARK CITY SMITH CREEK           | open   | yes            | 69.15              |                   | 1958       |              | 26               | 92          | 15-Sep-22            | 12                    |                          |
| B-10          | OMAK-RIVERSIDE EAST SIDE        | open   | yes            | 66.91              |                   | 1968       |              | 50               | 1339        | 06-Oct-21            | 24                    |                          |
| B-11          | BROOKS TRACT                    | open   | yes            | 82.14              |                   | 1973       |              | 50               | 463         | 06-Oct-21            | 24                    |                          |
| B-12          | OMAK CREEK                      | open   | yes            | 99.53              |                   | 2006       |              | 31               | 553         | 06-Oct-21            | 24                    |                          |
| B-13          | RIVERSIDE                       | open   | yes            | 79.32              |                   | 1969       |              | 330              | 650         | 05-Oct-21            | 24                    | Riverside-WSDOT inspects |
| B-14          | KEYSTONE                        | posted | yes            | 58.84              | FO                | 1973       |              | 32               | 76          | 04-Oct-21            | 24                    |                          |
| B-15          | MOSES ROAD                      | open   | yes            | 99.93              |                   | 2017       |              | 68               | 42          | 15-Sep-22            | 24                    |                          |
| B-17          | FIGLENSKI                       | open   | yes            | 87.93              |                   | 1976       |              | 25               | 5           | 04-Oct-21            | 24                    |                          |
| B-18          | MORGAN                          | open   | yes            | 89.36              |                   | 1976       |              | 30               | 22          | 04-Oct-21            | 24                    |                          |
| B-20          | JOHNSON CREEK RIVERSIDE         | open   | yes            | 72.63              |                   | 1976       |              | 26               | 521         | 04-Oct-21            | 24                    | Riverside-WSDOT inspects |
| C-2           | LITTLE BRIDGE CREEK             | open   | yes            | 99.46              |                   | 2008       |              | 41               | 321         | 11-Oct-21            | 24                    |                          |
| C-4           | BUTTERMILK CREEK                | open   | yes            | 84.9               |                   | 1960       | 2007         | 66               | 74          | 28-Sep-22            | 24                    |                          |
| C-5           | TWISP RIVER AT BUTTERMILK CR RD | open   | yes            | 59.67              | 1                 | 1959       |              | 102              | 53          | 28-Sep-22            | 12                    |                          |
| C-6           | GOLD CREEK-LOWER                | posted | yes            | 87.76              |                   | 1972       |              | 30               | 90          | 22-Oct-21            | 24                    |                          |

## **Appendix B**

**Load Rating Summary Sheets** 

**Bridge Name:** 

**Gold Creek-Lower** 

**Bridge Number:** 

**C-6** 

Agency:

**Okanogan County** 

Structure ID:

08201800

**Bridge Type:** 

Prestressed Concrete Rib Deck Girders

Length:

30'-0" Long Bridge

Skew:

0° Skew

No. Spans:

(1) 29-5" Span

Designed By:

Central Pre-Mix Prestress Co., 1972

**Design Load:** 

HS-20-44

**Ref. Inspection: Rating Date:** 

10/07/2015 10/30/2017

**Rating Method:** 

**LRFR** 

Rated By:

Susan M. Kovich, WA License 39869 NICHOLLS KOVICH ENGINEERING, PLLC

### RESULTS OF RATING

10/30/2017

| NBI RATING      | Rating Factor | γL   | Controlling Point    |
|-----------------|---------------|------|----------------------|
| HL-93 Inventory | 0.73          | 0.80 | Service III - Moment |
| HL-93 Operating | 0.97          | 1.35 | Strength I - Moment  |

| LEGAL LOADS                | <b>Rating Factor</b> | γL   | Allowable Load | Controlling Point    |
|----------------------------|----------------------|------|----------------|----------------------|
| TYPE 3                     | 1.20                 | 1.00 | 30 Tons        | Service III - Moment |
| TYPE 3-S2                  | 1.21                 | 1.00 | 44 Tons        | Service III - Moment |
| TYPE 3-3                   | 1.46                 | 1.00 | 59 Tons        | Service III - Moment |
| Notional Rating Load (NRL) | 0.78                 | 1.00 | 31 Tons        | Service III - Moment |
| Single Unit SHV (SU4)      | 0.99                 | 1.00 | 27 Tons        | Service III - Moment |
| Single Unit SHV (SU5)      | 0.92                 | 1.00 | 28 Tons        | Service III - Moment |
| Single Unit SHV (SU6)      | 0.84                 | 1.00 | 29 Tons        | Service III - Moment |
| Single Unit SHV (SU7)      | 0.80                 | 1.00 | 31 Tons        | Service III - Moment |

| PERMIT LOADS     |      |      |         |                    |
|------------------|------|------|---------|--------------------|
| WSDOT Overload 1 | 0.83 | 1.00 | 40 Tons | Service I - Moment |
| WSDOT Overload 2 | 0.70 | 1.00 | 72 Tons | Service I - Moment |

REMARKS: BRIDGE SHOULD BE POSTED FOR SU4, SU5, SU6 & SU7 RESTRICT BRIDGE FOR OVERLOAD 1 & OVERLOAD 2

Rating based on 10% impact and 1/2" asphalt overlay.

|  | NBI CODING   |  |                     |                                       | CURRENT REFERENCE   |  |                               |
|--|--|--|---------------------|---------------------------------------|---|--|-------------------------------|
| [70]<br>[63]<br>[64]<br>[64]<br>[65]<br>[66] | Operating Level Oper. Rating Method Oper. Rating Tons Oper. Rating Factor Inv. Rating Method Inv. Rating Tons Inv. Rating Factor | (1660)<br>(1551)<br>(1552)<br>(1553)<br>(1554)<br>(1555)<br>(1556) | 3<br>8<br>0.97<br>8 | [29]<br>[109]<br>[58]<br>[59]<br>[60] | Avg. Daily Traffic<br>Truck Percent<br>Deck Overall<br>Superstructure<br>Substructure<br>Approach Roadway | (1445)<br>(1451)<br>(1663)<br>(1671)<br>(1676)<br>(7681) | 111<br>14<br>8<br>8<br>8<br>8 |

**Bridge Name:** 

Sinlahekin Creek

**Bridge Number:** 

E-5

Agency:

**Okanogan County** 

Structure ID:

08180900

**Bridge Type:** 

Prestressed Concrete Rib Deck Girders

Length:

30'-0" Long Bridge

Skew:

0° Skew

No. Spans:

(1) 29-5" Span

Designed By:

Central Pre-Mix Prestress Co., 1972

Design Load:

HS-20-44

Ref. Inspection:

10/25/2016 10/30/2017

Rating Date: Rating Method:

**LRFR** 

Rated By:

Susan M. Kovich, WA License 39869

NICHOLLS KOVICH ENGINEERING, PLLC

### RESULTS OF RATING

| NBI RATING      | Rating Factor | γL   | Controlling Point    |
|-----------------|---------------|------|----------------------|
| HL-93 Inventory | 0.74          | 0.80 | Service III - Moment |
| HL-93 Operating | 0.97          | 1.35 | Strength I - Moment  |

| LEGAL LOADS                | <b>Rating Factor</b> | 7L   | Allowable Load | Controlling Point    |
|----------------------------|----------------------|------|----------------|----------------------|
| TYPE 3                     | 1.21                 | 1.00 | 30 Tons        | Service III - Moment |
| TYPE 3-S2                  | 1.22                 | 1.00 | 44 Tons        | Service III - Moment |
| TYPE 3-3                   | 1.48                 | 1.00 | 59 Tons        | Service III - Moment |
| Notional Rating Load (NRL) | 0.79                 | 1.00 | 32 Tons        | Service III - Moment |
| Single Unit SHV (SU4)      | 0.99                 | 1.00 | 27 Tons        | Service III - Moment |
| Single Unit SHV (SU5)      | 0.93                 | 1.00 | 29 Tons        | Service III - Moment |
| Single Unit SHV (SU6)      | 0.85                 | 1.00 | 29 Tons        | Service III - Moment |
| Single Unit SHV (SU7)      | 0.81                 | 1.00 | 31 Tons        | Service III - Moment |

| PERMIT LOADS     |      |      |         |                    |
|------------------|------|------|---------|--------------------|
| WSDOT Overload 1 | 0.84 | 1.00 | 40 Tons | Service I - Moment |
| WSDOT Overload 2 | 0.71 | 1.00 | 73 Tons | Service I – Moment |

REMARKS: BRIDGE SHOULD BE POSTED FOR SU4, SU5, SU6 & SU7 RESTRICT BRIDGE FOR OVERLOAD 1 & OVERLOAD 2

Rating based on 10% impact and no asphalt overlay.

|      | NBI CODING          |        |      | -     | CURRENT REFERENCE  |        |    |
|------|---------------------|--------|------|-------|--------------------|--------|----|
| [70] | Operating Level     | (1660) | 3    | [29]  | Avg. Daily Traffic | (1445) | 36 |
| [63] | Oper. Rating Method | (1551) | 8    | [109] | Truck Percent      | (1451) | 8  |
| [64] | Oper. Rating Tons   | (1552) |      | [58]  | Deck Overall       | (1663) | 7  |
| [64] | Oper. Rating Factor | (1553) | 0.97 | [59]  | Superstructure     | (1671) | 8  |
| [65] | Inv. Rating Method  | (1554) | 8    | [60]  | Substructure       | (1676) | 8  |
| [66] | Inv. Rating Tons    | (1555) |      |       | Approach Roadway   | (7681) | 8  |
| [66] | Inv. Rating Factor  | (1556) | 0.74 |       |                    | ,,     |    |

**Bridge Name:** 

Nine Mile Creek

**Bridge Number:** 

F-8

Agency: **Okanogan County** 

Structure ID:

08188400

**Bridge Type:** 

Reinforced Concrete Rib Deck Girders

Length:

28'-0" Long Bridge 0 Degree Skew

Skew:

No. Spans: Designed By: (1) 27'-4"

Design Load:

Central Pre-Mix Prestress Co., 1979 HS20-44 + 25 psf Future Asphalt

**Ref. Inspection:** 

10/06/2015 10/30/2017

**Rating Date:** Rating Method:

LRFR

Rated By:

Susan M. Kovich, WA License 39869

NICHOLLS KOVICH ENGINEERING, PLLC



### RESULTS OF RATING

| NBI RATING      | Rating Factor | γL   | Controlling Point  |
|-----------------|---------------|------|--------------------|
| HL-93 Inventory | 0.77          | 0.80 | Service III Moment |
| HL-93 Operating | 1.44          | 1.35 | Strength I Shear   |

| LEGAL LOADS                | <b>Rating Factor</b> | γL   | Allowable Load | Controlling Point  |
|----------------------------|----------------------|------|----------------|--------------------|
| TYPE 3                     | 1.26                 | 1.00 | 32 Tons        | Service III Moment |
| TYPE 3-S2                  | 1.30                 | 1.00 | 47 Tons        | Service III Moment |
| TYPE 3-3                   | 1.54                 | 1.00 | 61 Tons        | Service III Moment |
| Notional Rating Load (NRL) | 0.85                 | 1.00 | 34 Tons        | Service III Moment |
| Single Unit SHV (SU4)      | 1.06                 | 1.00 | 29 Tons        | Service III Moment |
| Single Unit SHV (SU5)      | 0.97                 | 1.00 | 30 Tons        | Service III Moment |
| Single Unit SHV (SU6)      | 0.89                 | 1.00 | 31 Tons        | Service III Moment |
| Single Unit SHV (SU7)      | 0.87                 | 1.00 | 34 Tons        | Service III Moment |

| PERMIT LOADS     |      |      |         |                    |
|------------------|------|------|---------|--------------------|
| WSDOT Overload 1 | 0.92 | 1.00 | 44 Tons | Service III Moment |
| WSDOT Overload 2 | 0.75 | 1.00 | 78 Tons | Service III Moment |

REMARKS: BRIDGE SHOULD BE POSTED FOR SU5, SU6 & SU7 RESTRICT BRIDGE FOR OVERLOAD 1 & OVERLOAD 2

Rating based on 10% impact and no asphalt overlay.

|  | NBI CODING   |  |                     |                                       | CURRENT REFERENCE   |  |                         |
|--|--|--|---------------------|---------------------------------------|---|--|-------------------------|
| [70]<br>[63]<br>[64]<br>[64]<br>[65]<br>[66] | Operating Level Oper. Rating Method Oper. Rating Tons Oper. Rating Factor Inv. Rating Method Inv. Rating Tons Inv. Rating Factor | (1660)<br>(1551)<br>(1552)<br>(1553)<br>(1554)<br>(1555)<br>(1556) | 3<br>8<br>1.44<br>8 | [29]<br>[109]<br>[58]<br>[59]<br>[60] | Avg. Daily Traffic<br>Truck Percent<br>Deck Overall<br>Superstructure<br>Substructure<br>Approach Roadway | (1445)<br>(1451)<br>(1663)<br>(1671)<br>(1676)<br>(7681) | 504<br>2<br>8<br>8<br>8 |

**Bridge Name:** 

Salmon Cr-Fifth Ave

**Bridge Number:** 

Okanogan3

Agency:

City of Okanogan

Structure ID:

08526500

**Bridge Type:** 

Prestressed Concrete Rib Deck Girders

Length:

38'-0" Long Bridge

Skew:

0° Skew

No. Spans: Designed By: (1) 37'-0" Span Unknown, 1971

Design Load:

HS-20

**Ref. Inspection: Rating Date:** 

10/15/2015 10/30/2017

**Rating Method:** 

LRFR

Rated By:

Susan M. Kovich, WA License 39869 NICHOLLS KOVICH ENGINEERING, PLLC



### RESULTS OF RATING

| NBI RATING      | Rating Factor | γL   | Controlling Point    |  |
|-----------------|---------------|------|----------------------|--|
| HL-93 Inventory | 0.79          | 0.80 | Service III - Moment |  |
| HL-93 Operating | 1.30          | 1.35 | Strength I - Moment  |  |

| LEGAL LOADS                | Rating Factor | γL   | Allowable Load | Controlling Point    |  |
|----------------------------|---------------|------|----------------|----------------------|--|
| TYPE 3                     | 1.11          | 1.00 | 28 Tons        | Service III - Moment |  |
| TYPE 3-S2                  | 1.18          | 1.00 | 42 Tons        | Service III - Moment |  |
| <b>TYPE 3-3</b>            | 1.35          | 1.00 | 54 Tons        | Service III - Moment |  |
| Notional Rating Load (NRL) | 0.72          | 1.00 | 29 Tons        | Service III - Moment |  |
| Single Unit SHV (SU4)      | 0.94          | 1.00 | 25 Tons        | Service III - Moment |  |
| Single Unit SHV (SU5)      | 0.89          | 1.00 | 28 Tons        | Service III - Moment |  |
| Single Unit SHV (SU6)      | 0.81          | 1.00 | 28 Tons        | Service III - Moment |  |
| Single Unit SHV (SU7)      | 0.77          | 1.00 | 30 Tons        | Service III - Moment |  |

| PERMIT LOADS     |      |      |         |                    |  |  |
|------------------|------|------|---------|--------------------|--|--|
| WSDOT Overload 1 | 0.71 | 1.00 | 34 Tons | Service I - Moment |  |  |
| WSDOT Overload 2 | 0.66 | 1.00 | 69 Tons | Service I - Moment |  |  |

REMARKS: BRIDGE SHOULD BE POSTED FOR SU4, SU5, SU6 & SU7 RESTRICT BRIDGE FOR OVERLOAD 1 & OVERLOAD 2

Rating based on 20% impact and no asphalt overlay.

|  | NBI CODING   |  |                     |                                       | CURRENT REFERENCE   |  |                              |
|--|--|--|---------------------|---------------------------------------|---|--|------------------------------|
| [70]<br>[63]<br>[64]<br>[64]<br>[65]<br>[66] | Operating Level<br>Oper. Rating Method<br>Oper. Rating Tons<br>Oper. Rating Factor<br>Inv. Rating Method<br>Inv. Rating Tons | (1660)<br>(1551)<br>(1552)<br>(1553)<br>(1554)<br>(1555) | 2<br>8<br>1.30<br>8 | [29]<br>[109]<br>[58]<br>[59]<br>[60] | Avg. Daily Traffic<br>Truck Percent<br>Deck Overall<br>Superstructure<br>Substructure<br>Approach Roadway | (1445)<br>(1451)<br>(1663)<br>(1671)<br>(1676)<br>(7681) | 260<br>5<br>7<br>7<br>5<br>6 |
| [66]   | Inv. Rating Factor   | (1556)   | 0.79                |                                       |   |  |                              |