

Lewis County
Department of Public Works
Engineering Division

**CONTRACT
PROVISIONS AND PLANS
FOR CONSTRUCTION OF:
HIGHWAY SAFETY
IMPROVEMENT PROGRAM
PHASE 2**

**FEDERAL AID PROJECT NO. HSIP-000S(479)
F.A. Contract No. TA-6330
COUNTY ROAD PROJECT NO. 2185B
April, 2019
Book 2 of 2**

Lewis County Public Works
2025 NE Kresky Ave.
Chehalis, WA 98532-2626



BOARD OF COUNTY COMMISSIONERS

Edna Fund, District No. 1
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APPENDIX C

FEDERAL CONTRACT PROVISIONS

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS – FHWA 1273

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273 -- Revised May 1, 2012

- I. General
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ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with

the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this

contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and

mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may,

after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and

individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual

was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or

general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or

voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-- Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

AMENDMENT
REQUIRED CONTRACT PROVISIONS
(Exclusive of Appalachian Contracts)

FEDERAL-AID CONSTRUCTION CONTRACTS

The Federal–Aid provisions are supplemented with the following:

XII. Cargo Preference Act

1. U.S. Department of Transportation Federal Highway Administration memorandum dated December 11, 2015 requires that all federal-aid highway programs awarded after February 15, 2016 must comply with the Cargo Preference Act and its regulation of 46 CFR 381.7 (a)-(b).

APPENDIX D

BID PROPOSAL DOCUMENTS

INCLUDING:

Notice to Contractor

Proposal Form

Local Agency Certification for Federal-Aid Contracts

Non-Collusion Declaration

Proposal Signature Page

Contractor Certification Wage Law Compliance (see conditions in 1-02.6 Special Provisions and Amendments)

Disadvantaged Business Enterprise Utilization Certification

Disadvantaged Business Enterprise (DBE) Written Confirmation Document



Lewis County Department of Public Works

Josh S. Metcalf, PE, Director

Tim Fife, PE, County Engineer

NOTICE TO CONTRACTORS

NOTICE IS HEREBY GIVEN that the Board of County Commissioners of Lewis County or designee, will open sealed proposals and publicly read them aloud on or after 11:00 a.m. on **Tuesday, April 30, 2019**, at the Lewis County Courthouse in Chehalis, Washington for the Highway Safety Improvement Program – Phase 2, F. A. Project No. HSIP-000S(479), CRP 2185B.

SEALED BIDS MUST BE DELIVERED BY OR BEFORE 11:00 A.M. on Tuesday, April 30, 2019

(Lewis County official time is displayed on Axxess Intertel phones in the office of the Board of County Commissioners. **Bids submitted after 11:00 AM will not be considered for this project.**)

Sealed proposals must be delivered to the Clerk of the Board of Lewis County Commissioners (351 N.W. North Street, Room 210, CMS-01, Chehalis, Washington 98532), by or before **11:00 A.M.** on the date specified for opening, and in an envelope clearly marked: **“SEALED BID FOR HIGHWAY SAFETY IMPROVEMENT PROGRAM – PHASE 2, F. A. PROJECT NO. HSIP-000S(479), CRP 2185B, TO BE OPENED ON OR AFTER 11:00 A.M. ON TUESDAY, APRIL 30, 2019.”**

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory contract bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the Lewis County Public Works Department.

Informational copies of maps, plans and specifications are on file for inspection in the office of the County Engineer of Lewis County in Chehalis, Washington. The contract documents may be viewed and downloaded from Lewis County's Web Site @ www.lewiscountywa.gov or you may call the Lewis County Engineers office @ (360)740-2612 and request a copy be mailed to you.

The Lewis County Public Works Department in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, Part 21, nondiscrimination in Federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR Part 26 will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin, or sex in consideration for an award.

PROPOSAL

TO: BOARD OF COUNTY COMMISSIONERS
LEWIS COUNTY
CHEHALIS, WASHINGTON 98532

This certifies that the undersigned has examined the location of the Highway Safety Improvement Program - Phase 2, F.A. Project No. HSIP-000S(479), CRP 2185B, in Lewis County, Washington, and that the plans, specifications and contract governing the work embraced in these improvements, and the method by which payment will be made for said work is understood. The undersigned hereby proposes to undertake and complete the work embraced in this improvement, or as much thereof as can be completed with the money available in accordance with the said plans, specifications and contract, and the following schedules of rates and prices:

NOTE: Unit prices for all items, all extensions, and total amount of bid shall be shown: All entries must be typed or entered in ink.

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION	UNIT PRICE DOLLARS CENTS	AMOUNT DOLLARS CENTS
1	1 L.S.	Mobilization	LUMP SUM	\$
2	1 L.S.	Removal of Structures and Obstructions	LUMP SUM	\$
3	637.5 L.F.	Removing Guardrail	\$	\$
4	13 Each	Removing Guardrail Anchor	\$	\$
5	1 L.S.	Clearing	LUMP SUM	\$
6	1,565 Ton	Select Borrow Incl. Haul	\$	\$
7	565 Ton	Stepped Slope Construction	\$	\$
8	87 L.F.	Schedule A Culv. Pipe 12 In. Diam.	\$	\$
9	4,532 Ton	Crushed Surfacing Base Course	\$	\$
10	0.06 Acre	Topsoil Type C	\$	\$
11	0.06 Acre	Seeding, Fertilizing and Mulching	\$	\$
12	5,041 L.F.	Wattle	\$	\$
13	1,662.5 L.F.	Beam Guardrail Type 31 - 8 Ft. Long Post	\$	\$
14	700 L.F.	Beam Guardrail Type 31 - 9 Ft. Long Post	\$	\$
15	1 Each	Beam Guardrail Non-Flared Terminal	\$	\$
16	11 Each	Beam Guardrail Type 31 Non-Flared Terminal	\$	\$
17	125 L.F.	Beam Guardrail Type 31 Buried Terminal Type 2	\$	\$
18	12.5 L.F.	Beam Guardrail Type 1	\$	\$

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION	UNIT PRICE DOLLARS CENTS	AMOUNT DOLLARS CENTS
19	33 Each	Beam Guardrail Block	\$	\$
20	237.5 L.F.	Beam Guardrail Type 31	\$	\$
21	6 Each	Beam Guardrail Transition Section Type B Connection	\$	\$
22	1 Each	Beam Guardrail Transition Section Type 4	\$	\$
23	2 Each	Beam Guardrail Achor Type 10		
24	62.5 L.F.	Raising Existing Beam Guardrail	\$	\$
25	1 L.S.	Project Temporary Traffic Control	LUMP SUM	\$
26	12.5 L.F.	New Beam Guardrail Section Type 1	\$	\$
27	352 Each	Underground Utility Verification Pothole	\$	\$
28	1 L.S.	Trimming and Cleanup	LUMP SUM	\$
29	1 Each	Mailbox Support Type 1	\$	\$
30	0 Est.	Reimbursement for Third Party Damage	ESTIMATED	\$0.00
31	1 Calc.	Minor Change	CALCULATED	\$ 25,000.00
32	1 L.S.	SPCC Plan	LUMP SUM	\$
			TOTAL BID	\$

Local Agency Certification for Federal-Aid Contracts

The prospective participant certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

This certification is material representation of the fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such subrecipients shall certify and disclose accordingly.

SR

DOT Form 272-040A EF
07/2011

Failure to return this Declaration as part of the bid proposal package will make the bid nonresponsive and ineligible for award.

NON-COLLUSION DECLARATION

I, by signing the proposal, hereby declare, under penalty of perjury under the laws of the United States that the following statements are true and correct:

1. That the undersigned person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.
2. That by signing the signature page of this proposal, I am deemed to have signed and to have agreed to the provisions of this declaration.

NOTICE TO ALL BIDDERS

To report rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (USDOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

SR

DOT Form 272-0361 EF
07/2011

PROPOSAL - SIGNATURE PAGE

The bidder is hereby advised that by signature of this proposal he/she is deemed to have acknowledged all requirements and signed all certificates contained herein.

A proposal guaranty in an amount of five percent (5%) of the total bid, based upon the approximate estimate of quantities at the above prices and in the form as indicated below, is attached hereto:

CASH IN THE AMOUNT OF _____

CASHIER'S CHECK _____ DOLLARS

CERTIFIED CHECK (\$_____) PAYABLE TO THE LEWIS COUNTY TREASURER

PROPOSAL BOND IN THE AMOUNT OF 5% OF THE BID

** Receipt is hereby acknowledged of addendum(s) No.(s) _____, _____, _____, & _____

SIGNATURE OF AUTHORIZED OFFICIAL(S)

Proposal Must be Signed

Firm Name

Address

State of Washington Contractor's License No.

Unified Business Identifier (U.B.I.) No.

Telephone No.

Federal ID No.

Note:

This proposal form is not transferable and any alteration of the firm's name entered hereon without prior permission from the Lewis County Engineer will be cause for considering the proposal irregular and subsequent rejection of the bid.

*Attach Power of Attorney



**Contractor Certification
Wage Law Compliance - Responsibility Criteria
Washington State Public Works Contracts**

FAILURE TO RETURN THIS CERTIFICATION AS PART OF THE BID PROPOSAL PACKAGE WILL MAKE THIS BID NONRESPONSIVE AND INELIGIBLE FOR AWARD

I hereby certify, under penalty of perjury under the laws of the State of Washington, on behalf of the firm identified below that, to the best of my knowledge and belief, this firm has NOT been determined by a final and binding citation and notice of assessment issued by the Washington State Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in RCW 49.48.082, any provision of RCW chapters 49.46, 49.48, or 49.52 within three (3) years prior to the date of the Call for Bids.

Bidder Name: _____
Name of Contractor/Bidder - Print full legal entity name of firm

By: _____ _____
Signature of authorized person Print Name of person making certifications for firm

Title: _____ **Place:** _____
Title of person signing certificate Print city and state where signed

Date: _____

Form 272-009
08/2017

**Underutilized Disadvantaged Business
Enterprise Utilization Certification**

To be eligible for Award of this Contract the Bidder shall fill out and submit, as a supplement to its sealed Bid Proposal, an Underutilized Disadvantaged Business Enterprise (UDBE) Utilization Certification. The Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal that does not contain a UDBE Utilization Certification which properly demonstrates that the Bidder will meet the UDBE participation requirements in one of the manners provided for in the proposed Contract. Refer to the instructions on Page 2 when filling out this form or the Bid may be rejected. An example form has been provided on Page 3. The successful Bidder's UDBE Utilization Certification shall be deemed a part of the resulting Contract.

Box 1: _____ certifies that the UDBE firms listed below have been contacted regarding participation on this project. If this Bidder is successful on this project and is awarded the Contract, it shall assure that subcontracts or supply agreements are executed with named UDBEs. (If necessary, use additional sheets.)

Box 2: _____

Column 1 Name of UDBE <small>(See Instructions)</small>	Column 2 Project Role <small>(See Instructions)</small>	Column 3 Description of Work <small>(See Instructions)</small>	Column 4 Dollar Amount Subcontracted to UDBE <small>(See Instructions)</small>	Column 5 Dollar Amount to be Applied Towards Goal <small>(See Instructions)</small>

Underutilized Disadvantaged Business Enterprise Condition of Award Contract Goal _____ Total UDBE Commitment Dollar Amount _____
Box 3 Box 4

5 By checking Box 5 the Bidder is stating that their attempts to solicit sufficient UDBE participation to meet the COA Contract goal has been unsuccessful and good faith effort will be submitted in accordance with Section 1-02.9 of the Contract

DOT Form 272-056U
Revised 02/2015

Instructions for Underutilized Disadvantaged Business Enterprise Utilization Certification Form

Box 1: Name of Bidder (Proposal holder) submitting Bid.

Box 2: Name of the Project.

Column 1: Name of the Underutilized Disadvantaged Business Enterprise (UDBE). UDBE Firms can be found using the search tools under the Firm Certification section of the Diversity Management and Compliance System web page <https://wsdot.diversitycompliance.com>. Repeat the name of the UDBE for each Project Role that will be performed.

Column 2: The Project Role that the UDBE will be performing as follows;

- Prime Contractor
- Subcontractor
- Subcontractor (Force Account)
 - Work sublet as Force Account must be listed separately.
- Manufacturer
- Regular Dealer
 - Work sublet to a Regular Dealer must be listed separately.
 - Regular Dealer status must be approved prior to Bid submittal by the Office of Equal Opportunity, Washington State Department of Transportation, on each Contract.
- Broker
 - Work sublet to a Broker must be listed separately.

List each project role to be performed by a single UDBE individually on a separate row(s). The role is used to determine what portion of the amount to be subcontracted (Column 4) may be applied toward meeting the goal (column 5).

Column 3: Provide a description of the work to be performed by the UDBE. The work to be performed must be consistent with the Certified Business Description of the UDBE provided at the Diversity Management and Compliance System web page <https://wsdot.diversitycompliance.com>.

- A Bidder subletting a portion of a bid item shall state "Partial" and describe the Work that is included.
 - For example; "Electrical (Partial) – Trenching".
- "Mobilization" will not be accepted as a description of Work.

Column 4: List the total amount to be subcontracted to each UDBE for each Project Role they are performing.

Column 5: This is the dollar amount for each line listed in the certification that the prime intends to apply towards meeting the COA Contract goal. It may be that only a portion of the amount subcontracted to a UDBE in Column 4 is eligible to be credited toward meeting the goal. See Note 1, Note 2, Note 3. The Contracting Agency will utilize the sum of this column (Box 4) to determine whether or not the bidder has met the goal. In the event of an arithmetic error in summing column 5 or an error in making appropriate reductions in the amounts in column four, See Note 1, Note 2, Note 3, then the mathematics will be corrected and the total (Box 4) will be revised accordingly.

Note 1: For Work sublet as Force Account the bidder **may only claim 50%** of the amount subcontracted (Column 4) towards meeting the goal (Column 5). This information will be used to demonstrate that the UDBE contract goal is met at the time that the bidder submits their bid. For example; amount sublet as force account = \$100,000 (Column 4) equates to $(\$100,000 \times 50\%) = \$50,000$ (Column 5) to be applied towards the goal.

Note 2: For Work sublet to a Regular Dealer the bidder **may only claim 60%** of the cost of the materials or supplies (Column 4) towards meeting the goal (Column 5). For example; Material cost = \$100,000 (Column 4) equates to $(\$100,000 \times 60\%) = \$60,000$ (Column 5) to be applied towards the goal.

Note 3: For Work sublet to a Broker the bidder **may only claim the fees** paid to a Broker towards meeting the goal (Column 4). For example; amount sublet to a broker = \$100,000 (Column 4) equates to $(\$100,000 \times \text{reasonable fee \%}) = \$$ (Column 5) to be applied towards the goal.

Box 3: Box 3 is the COA Contract goal which is the minimum required UDBE participation. The goal stated in the Contract will be in terms of a dollar amount or a percentage in the Contract. When expressed as a percentage you must multiply the percentage times the sum total of all bid items as submitted in the Bidder's Proposal to determine the dollar goal and write it in Box 3. In the event of an error in this box, the Contracting Agency will revise the amount accordingly.

Box 4: Box 4 is the sum of the values in column 5. **This value must equal or exceed the COA Contract goal amount written in Box 3 or;**

Box 5: Check Box 5 if insufficient UDBE Participation has been achieved and a good faith effort is required. Refer to the subsection titled, *Selection of Successful Bidder/Good Faith Efforts (GFE)* in the Contract.

See the Disadvantaged Business Enterprise Participation specification in the Contract for more information.

Underutilized Disadvantaged Business Enterprise Utilization Certification

To be eligible for Award of this Contract the Bidder shall fill out and submit, as a supplement to its sealed Bid Proposal, an Underutilized Disadvantaged Business Enterprise (UDBE) Utilization Certification. The Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal that does not contain a UDBE Utilization Certification which properly demonstrates that the Bidder will meet the UDBE participation requirements in one of the manners provided for in the proposed Contract. Refer to the instructions on Page 2 when filling out this form or the Bid may be rejected. An example form has been provided on Page 3. The successful Bidder's UDBE Utilization Certification shall be deemed a part of the resulting Contract.

Box 1: A Plus Construction Company certifies that the UDBE firms listed below have been contacted regarding participation on this project. If this Bidder is successful on this project and is awarded the Contract, it shall assure that subcontracts or supply agreements are executed with named UDBEs. (If necessary, use additional sheets.)

Box 2: US 395, Spokane City Limits to Stevens County Line - Paving and Safety

Column 1 Name of UDBE <small>(See Instructions)</small>	Column 2 Project Role <small>(See Instructions)</small>	Column 3 Description of Work <small>(See Instructions)</small>	Column 4 Dollar Amount Subcontracted to UDBE <small>(See Instructions)</small>	Column 5 Dollar Amount to be Applied Towards Goal <small>(See Instructions)</small>
A Plus Construction Company	Prime	Asphalt and concrete paving, asphalt milling, preleveling and pavement repair	N/A	900,000
In the Line Services, Inc.	Subcontractor (Force Account)	Crack sealing	20,000	10,000
In the Line Services, Inc.	Subcontractor	Guideposts, joint seal, pavement markers, temporary signage, construction sign installation	200,000	200,000
The Everything Guys, LLC	Regular Dealer	Rental and sales of highway construction and related equipment and materials	100,000	60,000
Optimum Prime Trucking, Inc.	Subcontractor	Dump Trucking	50,000	50,000
Metalheads, Inc.	Manufacturer	Dowel Bars	75,000	75,000
Erosion Under Control Co.	Broker	Erosion control blankets, straw bales and wattles, sand bags	15,000	250

EXAMPLE

Underutilized Disadvantaged Business Enterprise Condition of Award Contract Goal 356,968.16 Total UDBE Commitment Dollar Amount 1,295,250
Box 3 Box 4

5 By checking Box 5 the Bidder is stating that their attempts to solicit sufficient UDBE participation to meet the COA Contract goal has been unsuccessful and good faith effort will be submitted in accordance with Section 1-02.9 of the Contract



**Underutilized Disadvantaged Business
Enterprise (UDBE) Written
Confirmation Document**

See Contract Provisions: *UDBE Document Submittal Requirements*
Disadvantaged Business Enterprise Participation

THIS FORM SHALL ONLY BE SUBMITTED TO A UDBE THAT IS LISTED ON THE CONTRACTOR'S UNDERUTILIZED DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION CERTIFICATION.
THE CONTRACTOR SHALL COMPLETE PART A PRIOR TO SENDING TO THE UDBE.

PART A: To be completed by the bidder

The entries below shall be consistent with what is shown on the Bidder's Underutilized Disadvantaged Business Enterprise Utilization Certification. Failure to do so will result in Bid rejection.

Contract Title: _____

Bidder's Business Name: _____

UDBE's Business Name: _____

Description of UDBE's Work: _____

Dollar Amount to be Applied Towards UDBE Goal: _____

Dollar Amount to be Subcontracted to UDBE*: _____
*Optional Field

PART B: To be completed by the Underutilized Disadvantaged Business Enterprise

As an authorized representative of the Underutilized Disadvantaged Business Enterprise, I confirm that we have been contacted by the Bidder with regard to the referenced project for the purpose of performing the Work described above. If the Bidder is awarded the Contract, we will enter into an agreement with the Bidder to participate in the project consistent with the information provided in Part A of this form.

Name (printed): _____

Signature: _____

Title: _____

Address: _____ Date: _____

APPENDIX E

CONTRACT DOCUMENTS

INCLUDING:

Contract Form

Contract Bond

Power Equipment List

CONTRACT

THIS AGREEMENT, made and entered into this ___ day of _____, 2019, between the BOARD OF COUNTY COMMISSIONERS of LEWIS COUNTY, State of Washington, acting under and by virtue of RCW 36.77.040, hereinafter called

the Board, and _____ of _____

for ___sel___, heirs, executors, administrators, successors and assigns, hereinafter called the Contractor.

WITNESSETH:

That in consideration of the payments, covenants and agreements hereinafter mentioned to be made and performed by the parties hereto, the parties hereto covenant and agree as follows:

DESCRIPTION OF WORK:

1. The Contractor shall do all work and furnish all material necessary to construct transportation safety by installing guardrail at various locations in Lewis County, building guardrail landings by placing crushed surfacing base course, flattening slopes, traffic control and other work, all in Lewis County Washington, in accordance with and as described in the attached plans and specifications, and in full compliance with the terms, conditions and stipulations herein set forth and attached, now referred to and by such reference incorporated herein and made a part hereof as fully for all purposes as if here set forth at length, and shall perform any alterations in or additions to the work covered by this contract and every part thereof and any extra work which may be ordered as provided in this contract and every part thereof.

The Contractor shall provide and be at the expense of all materials, labor, carriage, tools, implements and conveniences and things of every description that may be requisite for the transfer of materials and for constructing and completing the work provided for in this contract and every part thereof.

2. The County hereby promises and agrees with the Contractor to hire and does hire the Contractor to provide the materials and to do and cause to be done the above described work and to complete and furnish the same according to the attached plans and specifications and the terms and conditions herein contained, and hereby contracts to pay for the same according to the schedule of unit or itemized prices at the time and in the manner and upon the conditions provided for in this contract and every part thereof. The County further agrees to hire the contractor to perform any alterations in or conditions to the work covered by this contract and every part thereof and any force account work that may be ordered and to pay for the same under the terms of this contract and the attached plans and specifications.

3. The Contractor for himself, and for his heirs, executors administrators, successors and assigns, does hereby agree to the full performance of all the covenants herein contained upon the part of the Contractor.

4. It is further provided that no liability shall attach to the County be reason of entering into this contract, except as expressly provided herein.

Contract - 1

5. CANCELLATION OF CONTRACT FOR VIOLATION OF STATE POLICY

This contract, pursuant to RCW 49.28.040 to RCW 49.28.060, may be canceled by the officers or agents of the Owner authorized to contract for or supervise the execution of such work, in case such work is not performed in accordance with the policy of the State of Washington.

6. DOCUMENTS COMPRISING CONTRACT

All documents hereto attached, including but not being limited to the advertisement for bids, information for bidders, bid proposal form, general conditions (if any), special conditions (if any), complete specifications and the complete plans, are hereby made a part of this contract.

IN WITNESS WHEREOF, the said Contractor has executed this instrument, and the said Board of County Commissioners of aforesaid County, pursuant to resolution duly adopted, has caused this instrument to be executed by and in the name of said Board by its Chairman, duly attested by its Clerk, the day and year first above written, and the seal of said Board to be hereunto affixed on the date in this instrument first above written.

By: _____

Contractor

Performance of foregoing contract assured
in accordance with the terms of the
accompanying bond.

Dated: _____, 2019

By: _____
Surety

By: _____
Attorney-in-fact

APPROVED AS TO FORM:

JONATHAN MEYER Prosecuting Attorney

By: _____
Civil Deputy

APPROVED:

County Engineer

Contract – 2

**CONTRACT BOND FOR
LEWIS COUNTY, WASHINGTON**

Bond No. _____

WE, _____ d/b/a _____
(Insert legal name of Contractor) (Insert trade name of Contractor, if any)

(hereinafter "Principal"), and _____ (hereinafter "Surety"), are held and firmly bound unto **LEWIS COUNTY, WASHINGTON** (hereinafter "County"), as Obligee, in an amount (in lawful money of the United States of America) equal to the total compensation and expense reimbursement payable to Principal for satisfactory completion of Principal's work under Contract No. **CRP 2185B, Federal Aid Project No. HSIP-000S(479)** between Principal and County, which total is *initially* _____ Dollars (\$ _____), for the payment of which sum Principal and Surety bind themselves, their executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.. Said contract (hereinafter referred to as "the Contract") is for the **Highway Safety Improvement Program - Phase 2** and is made a part hereof by this reference. The Contract includes the original agreement as well as all documents attached thereto or made a part thereof and amendments, change orders, and any other document modifying, adding to or deleting from said Contract any portion thereof.

This Bond is executed in accordance with the laws of the State of Washington, and is subject to all provisions thereof and the ordinances of County insofar as they are not in conflict therewith, and is entered into for the use and benefit of County, and all laborers, mechanics, subcontractors, and materialmen, and all persons who supply such person or persons, or subcontractors, with provisions or supplies for the carrying on of the work covered by Contract No. **CRP 2185B, Federal Aid Project No: HSIP-000S(479)**, between the below-named Contractor and County for the **Highway Safety Improvement Program - Phase 2**, a copy of which Contract, by this reference is made a part hereof and is hereinafter referred to as "the Contract." (The Contract as defined herein includes the aforesaid agreement together with all of the Contract documents including addenda, exhibits, attachments, modifications, alterations, and additions thereto, deletions therefrom, amendments and any other document or provision attached to or incorporated into the Contract)

THE CONDITION OF THIS OBLIGATION is such that if Contractor shall promptly and faithfully perform the Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

THE PARTIES FURTHER ACKNOWLEDGE & AGREE AS FOLLOWS:

- (1) Surety hereby consents to, and waives notice of, any alteration, change order, or other modification of the Contract and any extension of time made by County, except that any single or cumulative change order amounting to more than twenty-five percent (25%) of the penal sum of this bond shall require Surety's written consent.
- (2) Surety recognizes that the Contract includes provisions for additions, deletions, and modifications to the work or Contract Time and the amounts payable to Contractor. Subject to the limitations contained in paragraph (1) above, no such change or any combination thereof, shall void or impair Surety's obligation hereunder.
- (3) Surety is subject to the provisions contained in Section 1-03.4, "Contract Bond," of the Washington State Department of Transportation (WSDOT) Standard Specifications for Road, Bridge, and Municipal Construction. And such provisions are incorporated by reference. A copy may be viewed at WSDOT's website www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/.
- (4) Whenever County has declared Contractor to be in default and County has given Surety written notice of such declaration, Surety shall promptly (in no event more than thirty [30] days following receipt of such notice), specify, in written notice to County, which of the following actions Surety intends to take to remedy such default, and thereafter shall:
 - (a) Remedy the default within fifteen (15) days after its notice to County, as stated in such notice; or
 - (b) Assume within fifteen (15) days following its notice to County, full responsibility for the completion of the Contract in accordance with all of its provisions, as stated in such notice, and become entitled to payment of the balance of the Contract sum as provided in the Contract; or
 - (c) Pay County upon completion of the Contract, in cash, the cost of completion together with all other reasonable costs and expenses incurred by County as a result of Contractor's default, including but not limited to those incurred by County to mitigate its losses, which may include but are not limited to attorneys' fees and the cost of efforts to complete the work prior to Surety's exercising any option available to it under this Bond; or
 - (d) Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon a determination by County and Surety jointly of the lowest responsible bidder, arrange for one or more agreements between such bidder and County, and make available as work progresses (even though there is a default or a succession of defaults under such agreement(s) for completion arranged for under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract price, but not exceeding, including other costs and damages for which Surety may be liable hereunder, the penal sum of this Bond. The term "balance of the Contract price," as used in this paragraph, shall mean the total amount payable by County to Contractor under the Contract, less the amount properly paid by County to Contractor.

(5) If County commences suit and obtains judgment against Surety for recovery hereunder, then Surety, in addition to such judgment, shall pay all costs and attorneys' fees incurred by County in enforcement of County's rights hereunder. The venue for any action arising out of or in connection with this bond shall be in Lewis County, Washington.

(6) No right or action shall accrue on this Bond to or for the use of any person or corporation other than Lewis County, except as herein provided.

(7) No rider, amendment or other document modifies this Bond except as follows, which by this reference is incorporated herein:

SURETY'S QUALIFICATIONS: Every Surety named on this bond must appear on the United States Treasury Department's most current list (Circular 570 as amended or superseded) and be authorized by the Washington State Insurance Commissioner to transact business as a surety in the State of Washington. In addition, the Surety must have a current rating of at least A-:VII in A. M. Best's Key Rating Guide.

INSTRUCTIONS FOR SIGNATURES: This bond must be signed by the president or a vice-president of a corporation; the managing general partner of a partnership; managing joint venturer of a joint venture; manager of a limited liability company or, if no manager has been designated, a member of such LLC; a general partner of a limited liability partnership; or the owner(s) of a sole proprietorship. If the bond is signed by any other representative, the Principal must attach currently-dated, written proof of that signer's authority to bind the Principal, identifying and quoting the provision in the corporate articles of incorporation, bylaws, Board resolution, partnership agreement, certificate of formation, or other document authorizing delegation of signature authority to such signer, and confirmation acceptable to the County that such delegation was in effect on the date the bond was signed. **A NOTARY PUBLIC MUST ACKNOWLEDGE EACH SIGNATURE BELOW.**

FOR THE SURETY:

FOR THE PRINCIPAL:

By _____
(Signature of Attorney-in-Fact)

By: _____
(Signature of authorized signer for Contractor)

(Type or print name of Attorney-in-Fact)

(Type or print name of signer for Contractor)

(Type or print telephone number for Attorney-in-Fact)

(Type or print title of signer for Contractor)

STATE OF _____)
) ss:
COUNTY OF _____)

ACKNOWLEDGMENT FOR CONTRACTOR

On this ____ day of _____, ____, before me a notary public in and for the State of _____, duly commissioned and sworn, personally appeared _____, the person described in and who executed the foregoing bond, and acknowledged to me that _____ signed and sealed said bond as the free and voluntary act and deed of the Contractor so identified in the foregoing bond for the uses and purposes therein mentioned, and on oath stated that _____ is authorized to execute said bond for the Contractor named therein. WITNESS my hand and official seal hereto affixed the day and year in this certificate first above written.

(Signature of Notary Public)

(Print or type name of Notary Public)

Notary Public in and for the State of _____ residing at _____
My commission expires _____ **SEAL →**

STATE OF _____)
) ss:
COUNTY OF _____)

ACKNOWLEDGMENT FOR SURETY

On this ____ day of _____, ____, before me a notary public in and for the State of _____, duly commissioned and sworn, personally appeared _____, Attorney-in-Fact for the Surety that executed the foregoing bond, and acknowledged said bond to be the free and voluntary act and deed of the Surety for the uses and purposes therein mentioned, and on oath stated that _____ is authorized to execute said bond on behalf of the Surety, and that the seal affixed on said bond or the annexed Power of Attorney is the corporate seal of said Surety. WITNESS my hand and official seal hereto affixed the day and year in this certificate first above written.

(Signature of Notary Public)

(Print or type name of Notary Public)

Notary Public in and for the State of _____ residing at _____
My commission expires _____ **SEAL →**

POWER EQUIPMENT LIST

The undersigned furthermore certifies that he/she is thoroughly aware that time is of the essence for the completion of this contract within the time specified in the special provisions, and hereby agrees to provide the Engineer a list of his power equipment to be used on this project.

This equipment list will be used in computing any Force Account that may be performed within this contract.

The Contractor must complete this form in its entirety.

POWER EQUIPMENT

Type of Equipment	Make	Model Number	Serial Number	* Capacity	Year Built

APPENDIX F

PERMIT DOCUMENTS

**LEWIS COUNTY – STATE ENVIRONMENTAL POLICY ACT
THRESHOLD DETERMINATION
DETERMINATION OF NONSIGNIFICANCE (DNS)**

LEAD AGENCY: Lewis County – Community Development Department

PROPONENT: Lewis County – Public Works Department

FILE NUMBERS: SEP19-0002, SHD19-0001, MSR19-0034, FD19-00003, G19-00002,
G19-00003, G19-00004, G19-00005 & G19-00006

DESCRIPTION OF PROPOSAL: Lewis County Public Works proposes to install roadway safety improvements that will upgrade signs, improve clear zones (flatten slopes, add/upgrade barriers, widen shoulders, remove/modify fixed objects, and reduce pavement edge drop-offs). Safety improvements will include the installation of new guardrail and replacement of existing guardrail, as well as the installation of fill for construction of guardrail landings or slope flattening to provide a recoverable surface. Right of Way (ROW) acquisition will occur on Parcels 021970001005 and 021970001004 on Cooks Hill Road MP 3.8 to 3.9, Parcels 017642003004 on Hwy 603 MP 1.87 to 1.92, and Parcels 012654002000 and 012654001000 on West Side Hwy MP 0.32 to 0.36.

This work is proposed to be phased. The first phase of the project is proposed to take place from May 1, 2019 to December 30, 2019; this work is anticipated to include: 1) the replacement of guardrail at Harrison Avenue MP 2.53 to 2.55; 2) placement of fill for slope flattening at Galvin Road MP 1.54 to 1.62; 3) the placement of fill for guardrail landings at Cooks Hill Road from MP 1.70 to 1.76 and Summerside Drive 0.00 to 0.06; 4) the placement of fill for guardrail landings at Cooks Hill Road from to MP 3.15 to 3.28; 5) the placement of fill for slope flattening at Cooks Hill Road MP 3.80 to 3.90; 6) the placement of fill for guardrail landings at Cooks Hill Road from MP 4.08 to 4.20; 7) the placement of fill for slope flattening, along the eastern roadside of Centralia Alpha Road, from MP 0.09 to 0.29, and along the western roadside, from MP 0.17 to 0.25 ; 8) the placement of fill for slope flattening at Highway 603 MP 1.87 to 1.92; 9) the placement of fill for slope flattening at Highway 603 MP 10.37 to 10.47; 10) the placement of fill for slope flattening as well as guardrail landings, installation of new guardrail, and replacement of existing guardrail at Leonard Road MP 0.10 to 0.39; 11) the placement of fill for slope flattening and a guardrail landing, installation of new guardrail, and replacement of existing guardrail at Leonard Road MP 0.54 to 0.74; 12) the placement of fill for slope flattening at Leonard Road MP 0.84 to 0.92; 13) the placement of fill for slope flattening as well as guardrail landings, installation of new guardrail, and replacement of existing guardrail at MP 1.08 to 1.43; and 14) the placement of fill for a guardrail landing, installation of new guardrail, and replacement of existing guardrail at Leonard Road MP 1.78 to 1.85.

All remaining roadway safety work (such as installation of new guardrail, replacement of guardrail, and the placement of fill for either slope flattening or guardrail landings) is anticipated to take place within the subsequent five years. This proposed work is anticipated to include work at Galvin Road MP 1.20 to 1.54; Reynolds Avenue MP 0.33 to 0.71; Centralia Alpha Road, along the western roadside, from MP 0.05 to 0.17; Highway 603 MP 0.27 to 0.36, MP 2.50 to 2.62, MP 2.74 to 2.82, and MP 9.23 to 9.32; and West Side Highway MP 0.32 to 0.36.

For ease of permitting review all proposed work is included in the SEPA checklist, only areas of proposed impacts to aquatic resources are included in the JARPA Application, and individual fill and grade permit applications were filled out for all roads where work is proposed to take place in 2019.

The project proposes to permanently impact 0.322 acres of wetland and 0.053 acres of jurisdictional drainages, impacts to 1.407 acres of wetland and/or jurisdictional drainage buffer. To mitigate for unavoidable impacts to wetlands compensatory mitigation will be implemented in accordance with the Wetland Mitigation in Washington State Interagency Guidance and Lewis County Code. Impacts to 0.209 acres of Category II wetland and 0.11 acres of Category III wetland in the Chehalis Basin will be mitigated for through the purchase/utilization of 0.361 acres of wetland from the Chehalis Basin Mitigation Bank, Hanaford Valley Site. Additionally, impacts to 0.003 acres of Category IV wetland in the Cowlitz Basin will be mitigated for through the purchase/utilization of 0.003 acres of wetland from the Coweeman River Mitigation Bank.

While the project will not require work within any streams approximately 0.053 acres of impact to jurisdictional drainages as the drainages to be impacted are roadside ditches which carry stormwater and no conveyance will be lost as the stormwater culverts under access roads will either be extended to carry these flows or flows are anticipated to relocate to the new toe of the slope. No streams are proposed to be impacted by this project.

Wetland and stream buffers to be impacted by the proposed project area are currently within the right-of-way and are primarily vegetated with weedy roadside grasses or residential lawn providing little habitat value. Since the proposed change in use is not anticipated to significantly affect the change in the function of the buffers no mitigation is proposed for impacts to buffers.

It is anticipated that this work will be authorized by the US Army Corps of Engineers under multiple Nationwide Permit 14's for Linear Transportation Projects. As the Washington Department of Ecology (DOE) certifies Nationwide Permit 14 subject to condition and the project will meet all such conditions it is anticipated that the proposed project will be certified by the DOE under Section 401 after individual review.

No fish streams are to be impacted by the proposed project. Review of the Washington State Department of Fish and Wildlife (WDFW) and Priority Habitat Species (PHS) Database, WDFW PHS GIS data, and the SalmonScape interactive mapper determined portions of the proposed project are within a Section adjacent to an Occurrence Point for the Marbled Murrelet; however, these areas were reviewed by WSDOT and it was determined there is no suitable habitat within 0.25 miles of the proposed work. A signed copy of the NEPA Categorical Exclusion Document used by the Federal Highway Administration (FHWA) will be provided upon receipt.

No cultural resources survey was performed for this project. The Washington Department of Transportation consulted with the Department of Archaeology and Historic Preservation on behalf of FHWA and it was determined that this project meets exemptions A-5, A-16, and A-18 of FHWA's Section 106 Programmatic Agreement. These documents have been attached for your records.

Electronic copies of permit applications and supporting documents, with the exception of Section 106 documentation, are available for review and download at:

<https://cloud.lewiscountywa.gov/owncloud/index.php/s/pcou24Fx9HzpHMn>

LOCATION OF PROPOSAL: The project area includes portions of various roadway segments throughout Lewis County; Harrison Avenue Mile Post [MP] 2.53 to 2.55; Galvin Road MP 1.20 to 1.62; Reynolds Avenue MP 0.33 to 0.71; Cooks Hill Road MP 1.70 to 4.20; Summerside Drive MP 0.00 to 0.06; Centralia Alpha Road MP 0.05 to 0.29; Highway 603 MP 0.27 to 2.82 and MP 9.23 to 10.48; Leonard Road MP 0.08 to 1.85; and West Side Highway MP 0.32 to 0.36, Lewis County, WA on existing County Road Right of Way and on three areas of new ROW acquisition on tax parcel numbers 021970-001-004, 021970-001-005, 017642-003-004, 012654-001-000 & 012654-002-000.

THRESHOLD DETERMINATION:

The lead agency for this proposal has determined that it does not have a probable, significant adverse impact on the environment. An environmental impact statement (EIS) is NOT required under RCW 43.21C.030(2)(c). This decision was made after review by Lewis County of a completed environmental checklist and other information on file with this agency and such information is adopted herein by reference. This information is available for public review upon request.

This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for 14 days from the issue date below. Written comments may be submitted during the 14-day period.

Responsible Official:

Lee Napier, Director
Lewis County Community Development
2025 NE Kresky Avenue
Chehalis, Washington 98532

Contact Person:

Karen A. Witherspoon, AICP, Senior Project Planner


for Responsible Official

Date of Issue:

March 21, 2019

*This SEPA determination may be appealed in writing to the Lewis County Hearings Examiner until 4 pm on **April 11, 2019** at the Lewis County Community Development Permit Center. Appellants should be prepared to make **specific factual objections**. The appeal procedure is established in Lewis County Code (LCC) Section 17.110.130 and LCC Section 2.25.130. The administrative appeal fee is established by Resolution No. 18-349 of the Board of County Commissioners.*



Federal Aid Project Number <i>HSIP-0005(479)</i>	NEPA Start Date 10-8-18	Intent of Submittal <input type="checkbox"/> Preliminary <input checked="" type="checkbox"/> Final <input type="checkbox"/> Re-Evaluate
Agency Lewis County Public Works	Project Title Highway Safety Improvement Program - Phase II	
County Lewis		
Beginning Terminus: See below	Township(s): See Attachment A	
Ending Terminus: See below	Range(s): See Attachment A	
Miles: See below	Section(s): See Attachment A	



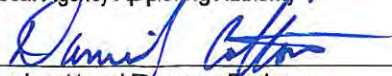
Part 1 - Project Description (Attach Vicinity Map)

Upgrade signs, improve clear zone (flatten slopes, add/upgrade barriers, widen shoulders, remove/modify fixed objects, and reduce pavement edge drop-offs). Safety improvements will include the installation of new guardrail and the replacement of existing guardrail near the Harrison Avenue Bridge No 32 at MP 2.54, as well as along various sections of the following roads: Galvin Road (MP 1.52 to 1.62), W Reynolds Avenue (MP 0.33 to 0.71), Cooks Hill Road (MP 1.70 to 4.20), Summerside Drive (MP 0.00 to 0.06), Centralia Alpha Road (MP 0.05 to 0.29), Highway 603 (MP 0.28 to 2.82 and MP 9.23 to 10.47), Leonard Road (MP 0.10 to 1.83), Gish Rd (MP 4.04 to 4.07), Westside Highway (MP 0.32 to 0.36). Refer to the attached Vicinity Map and Area of Potential Effects Maps for legal descriptions.

Part 2 - Categorical Exclusion & STIP

- Identify one CE from 23 CFR 771.117 (CE Guidebook - Appendix A) that fits the entire project C(23)
- Per 23 CFR Part 452(l) identify the subsequent project phase identified on the STIP? ROW Construction
- Attach a copy of the STIP page to the CE documentation form.

NEPA Approval Signatures

 Local Agency Approving Authority	<i>12-19-18</i> Date	 Local Programs Environmental Engineer	<i>2-27-19</i> Date
 Regional Local Programs Engineer	<i>1/17/19</i> Date	<i>CE Dec PA</i> Federal Highway Administration	<i>2-27-19</i> Date

Completed by (Print Official's Name): Ann Weckback	Telephone (include area code): (360) 740-1440	Email address: Ann.Weckback@lewiscountywa.gov
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Part 3 - Permits, Approvals & Right of Way (ROW)

Yes No Permit of Approval	Yes No Permit of Approval
<input checked="" type="checkbox"/> <input type="checkbox"/> Corps of Engineers <input type="checkbox"/> Sec. 10 <input checked="" type="checkbox"/> Sec. 404 <input checked="" type="checkbox"/> Nationwide Type 14 - Linear Transportation <input type="checkbox"/> Individual Permit No. <input type="checkbox"/> <input checked="" type="checkbox"/> Coastal Zone Management Certification <input checked="" type="checkbox"/> <input type="checkbox"/> Critical Areas Ordinance (CAO) Permit <input type="checkbox"/> <input checked="" type="checkbox"/> Forest Practices Act Permit <input type="checkbox"/> <input checked="" type="checkbox"/> Hydraulic Project Approval <input type="checkbox"/> <input checked="" type="checkbox"/> Local Building or Site Development Permits <input checked="" type="checkbox"/> <input type="checkbox"/> Local Clearing and Grading Permit <input type="checkbox"/> <input checked="" type="checkbox"/> National Pollutant Discharge Elimination System (NPDES) Baseline General for Construction <input checked="" type="checkbox"/> <input type="checkbox"/> Shoreline Permit <input type="checkbox"/> <input checked="" type="checkbox"/> State Waste Discharge Permit <input checked="" type="checkbox"/> <input type="checkbox"/> TESC Plans Completed	<input type="checkbox"/> <input checked="" type="checkbox"/> Water Rights Permit <input checked="" type="checkbox"/> <input type="checkbox"/> Water Quality Certification - Section 401 Issued by Department of Ecology <input type="checkbox"/> <input checked="" type="checkbox"/> Tribal Permits(s) (if any) <input type="checkbox"/> <input checked="" type="checkbox"/> Other Permits (List) <input checked="" type="checkbox"/> <input type="checkbox"/> Is permanent ROW acquisition needed? If yes, amount needed: 0.2 (acres/sq. ft.) <input checked="" type="checkbox"/> <input type="checkbox"/> Is any temporary ROW needed? <input type="checkbox"/> <input checked="" type="checkbox"/> Is relocation required? <input type="checkbox"/> <input checked="" type="checkbox"/> Has ROW (property and/or property interests) been acquired <u>for this project</u> prior to the NEPA start date? If yes, documentation demonstrating compliance with 23 CFR 710.501 may be required. <input type="checkbox"/> <input checked="" type="checkbox"/> Is a detour required? If yes, please attach detour information.

U.S. Coast Guard Permitting

- Does the project propose any new or modify any existing bridges or culverts crossing a waterway? Yes No
- If yes, attach a copy of the jurisdictional determination email from the U.S. Coast Guard.

Other Federal Agencies - Does the project involve any federal properties, approvals or funding from other/additional federal agencies? Yes No If yes, please describe.

Part 4 - Environmental Considerations

Will the project involve work in or affect any of the following? Identify proposed mitigation. Attach additional pages or supplemental information if necessary.

1. Air Quality - Identify any anticipated air quality issues.

Is the project exempt from Air Quality conformity requirements? Yes No

a. If Yes, identify exemption - please refer to Appendix G in the CE Guidebook for a list of exemptions.

The project is exempt under Safety Projects - shoulder improvements, guardrail, median barriers, and crash attenuators.

b. Is the project included in the Metropolitan Transportation Plan? Yes No

If Yes, date Metropolitan Transportation Plan was adopted

c. Is the project located in an Air Quality Non-Attainment Area or Maintenance Area for carbon monoxide, ozone or PM 10 or PM 2.5? Yes No

Part 4 - Environmental Considerations

2. Critical and Sensitive Areas

a. Is this project within a sole source aquifer? Yes No

If located within a sole source aquifer, is the project exempt from EPA approval?

If Yes, please list exemption

If no, date of EPA approval

b. Will this project impact Species/Habitat other than ESA listed species? (If No, explain your answer) Yes No

According to the WDFW priority habitat and species database priority species potentially within the project vicinity include the big brown bat, cavity-nesting ducks, eastern wild turkey, purple martin, osprey, and Vaux's swift. None of these species are anticipated to be adversely impacted by the project.

c. Is this project within one mile of a Bald Eagle nesting territory, winter concentration area or communal roost? Yes No If Yes, the local agency must go to the US Fish & Wildlife website (http://www.fws.gov/pacific/eagle/) and work through the Do I Need a Permit? section.

d. Are wetlands present within the project area? Yes No

If yes, estimate the impact in acres 0.32 acres

Please attach a copy of the proposed mitigation plan.

3. Cultural Resources/Historic Structures - Identify any historic, archaeological or cultural resources present within the project's Area of Potential Effects.

Does the project fit into any of the exempt types of projects listed in Appendix J of the CE Guidebook? (If Yes, note exemption below) Yes No

Exempt under A-5, ~~A-16~~ and A-18 *to A-36 TD*

If No:

Date of DAHP concurrence:

Date of Tribal consultation(s) (if applicable):

Adverse effects on cultural/historic resources? Yes No

If Yes, date of approved Section 106 MOA

4. Floodplains and Floodways

a. Is the project located in a 100-year floodplain? Yes No

b. If Yes, is the project located within a 100-year floodway? Yes No

c. Will the project impact a 100-year floodplain? (If Yes, describe impacts.) Yes No

The proposed project will add 40 CY of fill within the 100-year floodplain of the Chehalis River at the Galvin Road Bridge No 75 near MP 1.55; 50 CY of fill within the 100-year floodplain of Coffee Creek at the Reynolds Avenue Bridge No 64 near MP 0.52; and 1,028 CY of fill within the 100-year floodplain of Salzer Creek at the Centralia Alpha Road Bridge No 68 near MP 0.17. The proposed addition of fill within the floodplain has been evaluated and it was determined that surrounding landowners will not be impacted.

Part 4 - Environmental Considerations

5. Hazardous and Problem Waste - Identify potential sources and types(s).

- a. Does the project require excavation below the existing ground surface? Yes No
- b. Will groundwater be encountered? Yes No
- c. Will any properties be acquired as part of the is project? Yes No
- d. Is this site located in an undeveloped area (*i.e.* no buildings, parking, storage areas or agriculture)? Yes No
- e. Is the project located within a one-mile radius of a known Superfund Site? Yes No
- f. Is this project located within a 1/2-mile radius of a site or sites listed on any of the following Department of Ecology databases? (If Yes, check the appropriate boxes below.) Yes No
 - Voluntary Cleanup Program (VCP), State Cleanup Site (SCS), or Independent Cleanup Program (ICP)
 - Underground Storage Tank (UST)
 - Leaking Underground Storage Tank (LUST)
 - Confirmed and Suspected Contaminated Sites List (CSCSL)
- g. Has site reconnaissance (windshield survey) been performed? Yes No
(Please identify any properties not identified in the Ecology or ERS database search as an attachment -- name, address and property use).

A windshield survey was performed and no additional sites were identified.

- h. Based on the information above and project specific activities, is there a potential for the project to generate, acquire or encounter contaminated soils, groundwater or surface water? . . Yes No

Please explain:

Although the project is located within a 0.5 mile radius of the sites listed above and depicted on the attached maps the project does not have the potential to generate, acquire, or encounter contaminated soils, groundwater, or surface waters. The maximum excavation to occur as part of this project is 18 inches for the extension of culverts.

If you responded **Yes** to any of these questions above (5A – 5F or 5H), contact your Region LPE for assistance as a *right-sized* HazMat Analysis Report/Memorandum most likely will be required.

6. Noise

- a. Does the project involve constructing a new roadway? Yes No
- b. Is there a change in the vertical or horizontal alignment of the existing roadway? Yes No
- c. Does the project increase the number of through traffic lanes on an existing roadway? Yes No
- d. Is there a change in the topography? Yes No
- e. Are there auxiliary lanes extending 1 1/2 miles or longer being constructed as part of this project? . Yes No
- f. If you answered Yes to any of the preceding questions, identify and describe any potential noise receptors within the project area and subsequent impacts to those noise receptors. Please attach a copy of the noise analysis if required.

If impacts are identified, describe proposed mitigation measures.

Part 4 - Environmental Considerations

7. 4(f)/6(f) Resources: parks, recreation areas, wildlife refuges, historic properties, wild & scenic rivers, scenic byways

a. Please identify any 4(f) properties within the project limits and the areas of impacts.

There are no 4(f) properties within the project limits or the areas of impact.

b. Please identify any properties within the project limits that used funds from the Land & Water Conservation Fund Act.

There are no properties within the project limits that used funds from the Land and Water Conservation Fund Act.

c. Please list any Wild and Scenic Rivers and Scenic Byways within the project limits.

There are no Wild and Scenic Rivers or Scenic Byways within the project limits.

8. Agricultural Lands -

a. Are there agricultural lands within 300 feet of the project limits? Yes No

If Yes, please describe impacts.

While there are agricultural lands within 300 feet of the project limits no such lands will be impacted by the proposed project.

b. Are impacted lands considered to be unique and prime farmland? Yes No

If Yes, date of project review by Natural Resource Conservation Service (NRCS)

9. Rivers, Streams (continuous or intermittent) or Tidal Waters

a. Identify all waterbodies within 300 feet of the project limits or that will otherwise be impacted.

While no work will occur below the ordinary high water line of any waterbodies work will occur within the 100-year floodplain of Dry Creek, the Chehalis River, Coffee Creek, and Salzer Creek.

b. Identify stream crossing structures by type.

Guardrail will be installed/modified on/adjacent to the Harrison Rd Bridge No 32 at MP 2.54; Galvin Rd Bridges- No 75 at MP 1.55 and No 112 at MP 1.23; Reynolds Ave Bridge No 64 at MP 0.52; Salzer Creek Rd Bridge No 68 at MP 0.17; Leonard Rd Bridge No 70 at MP 0.32, & 3 stream culverts.

10. Tribal Lands - Identify whether the project will occur within any Tribal lands, including reservation, trust and fee lands. Please do not list usual and accustomed areas.

There are no tribal lands within the project area nor will any such lands be impacted by the proposed project.

Part 4 - Environmental Considerations

11. Water Quality/Stormwater

a. Will this project's proposed stormwater treatment be consistent with either WSDOT's HRM, DOE's stormwater management manual for eastern/western Washington or a local agency equivalent manual? Yes No

If No, explain proposed water quality/quantity treatment for the new and any existing impervious surface associated with the proposed project.

b. Amount of existing impervious surface within the project limits: N/A

c. Net new impervious surface to be created as a result of this project: N/A

12. Previous Environmental Commitments

Describe previous environmental commitments that may affect or be affected by the project - If any.

Lewis County is responsible for maintaining the roadway and safety appurtenances within the County ROW.

13. Environmental Justice

Does the project meet any of the exemptions noted in Appendix L of the NEPA CE Guidebook? Yes No

If Yes, please note the exemption and appropriate justification in the space below.

If No, are minority or low-income populations located within the limits of the project's potential impacts? Yes No

If No, attach appropriate data to support findings. If Yes, describe impacts and attach appropriate supporting documentation. Findings should be confirmed using at least two information sources. Please refer to the NEPA CE Guidebook for more information.

Part 5 - Biological Assessments and EFH Evaluations

1. Do any listed species potentially occur in the project's action area and/or is any designated critical habitat present within the project's action area? (If No, attach species listings.) Yes No

Affected ESA Listed Species	2. Will any construction work occur within 0.25 mile of any of the following?	3. Does the project involve blasting, pile driving, concrete sawing, rock-drilling or rock-scaling activity within one mile of any of the following?
Oregon Spotted Frog proposed critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Yellow-billed Cuckoo suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Spotted Owl management areas, designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Marbled Murrelet nest or occupied stand, designated critical habitat or suitable habitat?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Western Snowy Plover designated critical habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the project within 0.25 mile of marine waters? If Yes explain potential effects on Killer Whales and on Marbled Murrelet foraging areas.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Killer Whale designated critical habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Grizzly Bear suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Gray Wolf suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Canada Lynx habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Columbia White-tailed Deer suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Woodland Caribou habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Streaked Horned Lark designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Taylor's Checkerspot designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Mazama Pocket Gopher designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Eulachon designated critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Rockfish proposed critical habitat or suitable habitat?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
A mature coniferous or mixed forest stand?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

- 4. Will the project involve any in-water work? Yes No
- 5. Will any construction work occur within 300 feet of any perennial or intermittent waterbody that either supports or drains to waterbody supporting listed fish? Yes No
- 6. Will any construction work occur within 300 feet of any wetland, pond or lake that is connected to any permanent or intermittent waterbody? Yes No
- 7. Does the action have the potential to directly or indirectly impact designated critical habitat for salmonids (including adjacent riparian zones)? Yes No
- 8. Will the project discharge treated or untreated stormwater runoff or utilize water from a waterbody that supports or drains into a listed-fish supporting waterbody? Yes No
- 9. Will construction occur outside the existing pavement? If Yes go to 9a. Yes No
- 9a. Will construction activities occurring outside the existing pavement involve clearing, grading, filling or modification of vegetation or tree-cutting? Yes No
- 10. Are there any Federally listed Threatened or Endangered plant species located within the project limits? If Yes, please attach a list of these plant species within the action area.. Yes No
- 11. Does a mature coniferous or mixed forest stand occur within 200' of the project site? Yes No

Analysis for No Effects Determination - If there are any Yes answers to questions in Part 5, additional analysis is required. Attach additional sheets if needed.

The proposed project is not anticipated to affect any NMFS listed species as no in-water work will occur. No USFWS species are anticipated to be impacted as there is no suitable habitat for any such species nor any designated critical habitat within the project area. While the WDFW GIS data shows portions of the proposed project within Sections adjacent to Occurrence Points for the Marbled Murrelet these areas were reviewed and it was determined that there is no suitable habitat present within 0.25 miles of the proposed work.

Analysis for RRMP ESA 4(d) determination for NMFS - A local agency must be certified by the Regional Road Maintenance Forum to utilize 4(d).

Maintenance Category (check all that apply)

- | | | |
|--|---|---|
| <input type="checkbox"/> 1. Roadway Surface | <input type="checkbox"/> 6. Stream Crossings | <input type="checkbox"/> 11. Emergency Slide/Washout Repair |
| <input type="checkbox"/> 2. Enclosed Drainage Systems | <input type="checkbox"/> 7. Gravel Shoulders | <input type="checkbox"/> 12. Concrete |
| <input type="checkbox"/> 3. Cleaning Enclosed Drainage Systems | <input type="checkbox"/> 8. Street Surface Cleaning | <input type="checkbox"/> 13. Sewer Systems |
| <input type="checkbox"/> 4. Open Drainage Systems | <input type="checkbox"/> 9. Bridge Maintenance | <input type="checkbox"/> 14. Water Systems |
| <input type="checkbox"/> 5. Watercourses and Streams | <input type="checkbox"/> 10. Snow and Ice Control | <input type="checkbox"/> 15. Vegetation |

Describe how the project fits in the RRMP 4(d) Program:

Effect Determinations for ESA and EFH

If each of the questions in the preceding section resulted in a "No" response or if any of the questions were checked "Yes," but adequate justification can be provided to support a "no effect" determination, then check "No Effect". If this checklist cannot be used for Section 7 compliance (i.e., adequate justification cannot be provided or a "may effect" determination is anticipated), a separate biological assessment document is required.

- | | | | |
|--|-------------------|-------------------|---|
| <input checked="" type="checkbox"/> No Effect | NMFS | USFWS | EFH Determination |
| | <i>JB 1-29-19</i> | <i>JB 1-29-19</i> | <input checked="" type="checkbox"/> No Adverse Effect |
| <input type="checkbox"/> NLTAA - Date of Concurrence | | | <input type="checkbox"/> Adverse Effect -
Date of NMFS concurrence |
| <input type="checkbox"/> LTAA - Date BO issued | | | <input type="checkbox"/> Not Applicable |
| <input type="checkbox"/> RRMP 4(d) | | | |

Part 6- FHWA Comments

Highway Safety Improvement Project – Phase II CRP 2185B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK	YES	NO	Initials of Inspector	Date	Initials of Environmental Planner	Date	COMMENTS
Construction Special Provisions DOCUMENT Construction Special Provisions, cont.	-	The Contractor shall retain a copy of the most recent U.S. Army Corps of Engineers Nationwide Permit Verification Letter, conditions, and permit drawings on the worksite for the life of the Contract (See Special Provision titled <u>Permits and Licenses</u>). The Contractor shall provide copies of the items above listed to all Sub-Contractors involved with the authorized work prior to their commencement of any work.							
		Temporary structures and dewatering of areas under the jurisdiction of the U.S. Army Corps of Engineers must maintain normal downstream flows and prevent upstream and downstream flooding to the maximum extent practicable.							
		Any temporary fills placed must be removed in their entirety and the affected areas returned to their pre-construction elevation.							
Federal Highway Administration NEPA CE HSIP-0005(479)	2/27/19	Limit vegetation removal and retain large trees to the extent practicable. Protect root zones of the trees that would be retained by installing silt fencing at the dripline of each tree to create equipment exclusion zones.							
		No contractor staging areas will be allowed within 50 feet of any waters of the State, including wetlands. Refueling or storage of hazardous substances shall occur at least 200 feet away from any waters of the State including wetlands. All staging, stockpiling, and refueling areas shall be within the limits of the Area of Potential Effect depicted on the attached APE Map.							
		If, over the course of the project, human skeletal remains are discovered, the Lewis County Sheriff and DAHP must be notified immediately. If archaeological materials are uncovered, Public Works or their contractors must immediately stop work, and the Public Works project manager must contact the WSDOT cultural resource specialist. Refer to the attached Inadvertant and Unanticipated Discoveries Plan							
Corps Permit Section 404 NWP 14 NWS-2019-067 Corps Permit Section 404 NWP 14, cont. NWS-2019-067	TBD	Implement and Abide by the <i>Wetland Mitigation Report (Highway Safety Improvements Program – Phase II)</i> dated February 20, 2019 and obtain mitigation bank credits from the Chehalis Basin Mitigation Bank, Hanaford Valley Site and the Coweeman River Mitigation Bank in accordance with Sections 9 and 10 of the Bank Use Plan.							
		Obtain from the Chehalis Basin Mitigation Bank Hanaford Valley Site and the Coweeman River Mitigation Bank sponsor documentation of the completed mitigation bank transaction. You shall submit to the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch documentation on the completed mitigation bank transaction prior to performing work in waters of the United States authorized by this permit. All submittals must prominently display the reference number NWS-2019-067.							
		Activities required for the construction, expansion, modification, or improvement of linear transportation projects (e.g. roads, highways, railways, trails, airport runways and taxiways) in water of the United States. For linear transportation projects in non-tidal waters, the discharge cannot cause the loss of greater than ½-acre of waters of the United States. Any stream channel modification, including bank stabilization, is limited to minimum necessary to construct or protect the linear transportation project: such modification must be in the immediate vicinity of the project.							
		This NWP also authorizes temporary structures, fills and work necessary to construct the linear transportation project. Appropriate measures must be taken to maintain normal downstream flows and minimized flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering or construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.							
		No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity’s primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitable culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.							

Highway Safety Improvement Project – Phase II CRP 2185B

DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK	YES	NO	Initials of Inspector	Date	Initials of Environmental Planner	Date	COMMENTS
Corps Permit Section 404 NWP 14, cont. NWS-2019-067	TBD	Activities in spawning areas during spawning season must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are no authorized.							
		Activities in water s of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.							
		No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Materials used for construction or discharged must be free from toxic pollutants in toxic amounts.							
		No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.							
		If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.							
		Appropriate soil erosion and sediment controls must be used and maintained in effective operation condition during construction, and all exposed soils and other fills, as well as any work below ordinary high water mark, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to preform work within waters of the United States during periods of low-flow or no flow.							
		To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of activities to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location to open waters if it benefits the aquatic environments (e.g., stream restoration or relocation activities).							
		The activity must comply with applicable FEMA-approved state or local floodplain management requirements.							
		Heavy equipment working in wetlands must be placed on mats, or other measures must be taken to minimize soil disturbance.							
		Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.							
		Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.							
		No activity or its operation may impair reserved tribal rights, including, but no limited to, reserved water rights and treaty fishing and hunting rights.							
		No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitats or such species. No activity is authorized under any NWP which “may effect” a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.							
The permittee is responsible for obtaining any “take” permits required under the U.S. Fish and Wildlife Service’s regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact the appropriate local office of the U.S. Fish and Wildlife Service to determine if such “take” permits are required for a particular activity.									
If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.									

Highway Safety Improvement Project – Phase II CRP 2185B										
DOCUMENT	DATE RECEIVED	CONDITIONS OF WORK	YES	NO	Initials of Inspector	Date	Initials of Environmental Planner	Date	COMMENTS	
Corps Permit Section 404 NWP 14, cont. NWS-2019-067	TBD	Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP and CWA Section 401, individual 401 Water Quality Certification must be obtained or waved. The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does no result in more than minimal degradation of water quality.								
Lewis County SEPA SEP19-0002	TBD	This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for 14 days from the issue date (March 21, 2019).								
Lewis County Shoreline Permit SHD 19-0001-	TBD	All activities must comply with the Shoreline Management Act (Chapter 90.58 RCW), Ecology’s Substantial Development Permit approval criteria (Chapter 173-27-150 WAC), and the Lewis County local Shoreline Master Program.								
Lewis County Floodplain Permit FD19-00003	TBD									
Lewis County Fill/Grade Permit G19-00002, G19-00003, G19-00004, G19-00005, and G19-00006	TBD	All work shall conform to the requirements of the Lewis County code and any other applicable laws and ordinances.								
		Fill material is required to be clean earth material (rock, natural soil or a combination of both)								
		Requests for extension of this permit must be submitted in written form to the Building Official with documentation of the total amount of fill and type of material deposited at the time of the extension request.								
		Advisory: If any evidence of historical, archaeological, or cultural importance is discovered during project execution, work shall be halted until the findings can be evaluated by appropriate qualified individuals and/or agencies per RCW 27.53.060(1).								

Temporary Erosion and Sediment Control Plan

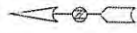
The Highway Safety Improvement Project Phase II, CRP 2185B proposed to upgrade signs and improve clear zones through slope flattening, addition/upgrades to barriers, shoulder widening, removal/modification of fixed objects, and reductions in pavement edge drop-offs. As this project will not require coverage under the National Pollutant Discharge Elimination System (NPDES) Construction Stormwater General Permit (CSWGP) a formal Temporary Erosion and Sediment Control Plan has not been prepared for this project.

Lewis County is a member of the Regional Road Maintenance Endangered Species Act (ESA) Program. All roadway maintenance activities must utilize the best management practices outlined in the Regional Road Maintenance ESA Program Guidelines. Site specific BMPs which will be implemented as part of this project may include the following:

- Staking of project limits
- Installation of straw wattles where work is adjacent to critical areas
- In accordance with the temporary erosion control and sediment control (TESC) plan no soil will be left uncovered for more than 2 days during the wet season (October 1st to April 30th) or seven days during the dry season (May 1st to September 30th)
- Prior to project completion, exposed earth will be hydroseeded or covered with long term mulch.

Refer to the attached Final Signed Plans for locations of BMPs.

1 AND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED. FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



BOND, ROBERT I & KRISTEN A
022118903001

BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL
(POSTED SPEED 45 MPH AND BELOW)
SEE WSDOT STANDARD PLAN C-22.43-03

CONSTRUCTION NOTES

- ① CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
30 TON CRUSHED SURFACING BASE COURSE
- ② CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
10 TON CRUSHED SURFACING BASE COURSE
- ③ WATTLE
10C L.F.

BASS, JEFFREY D & CHRISIF I
01030704003

BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL
(POSTED SPEED 45 MPH AND BELOW)
SEE WSDOT STANDARD PLAN C-22.43-03

NOTE:
FACE OF GUARDRAIL IS TO REMAIN 1.00' FROM EDGE OF HMA

BEAM GUARDRAIL TYPE 31
8' POST



BEAM GUARDRAIL TYPE 31

BEAM GUARDRAIL TYPE 31
9' POST

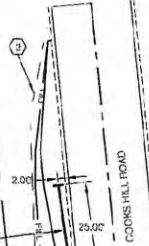
2.00'

25.00'

37.50'

175.00'

SUMMERS/JF DRIVE



SITE 1
COOKS HILL ROAD MP 1.70
NOT TO SCALE

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY: DJC
DRAWN BY: CGA
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL AID NO: HSIP-00CS(476)
COUNTY PROJECT NO: 21858
COOKS HILL ROAD SITE 1

SHEET
C2
OF
C4



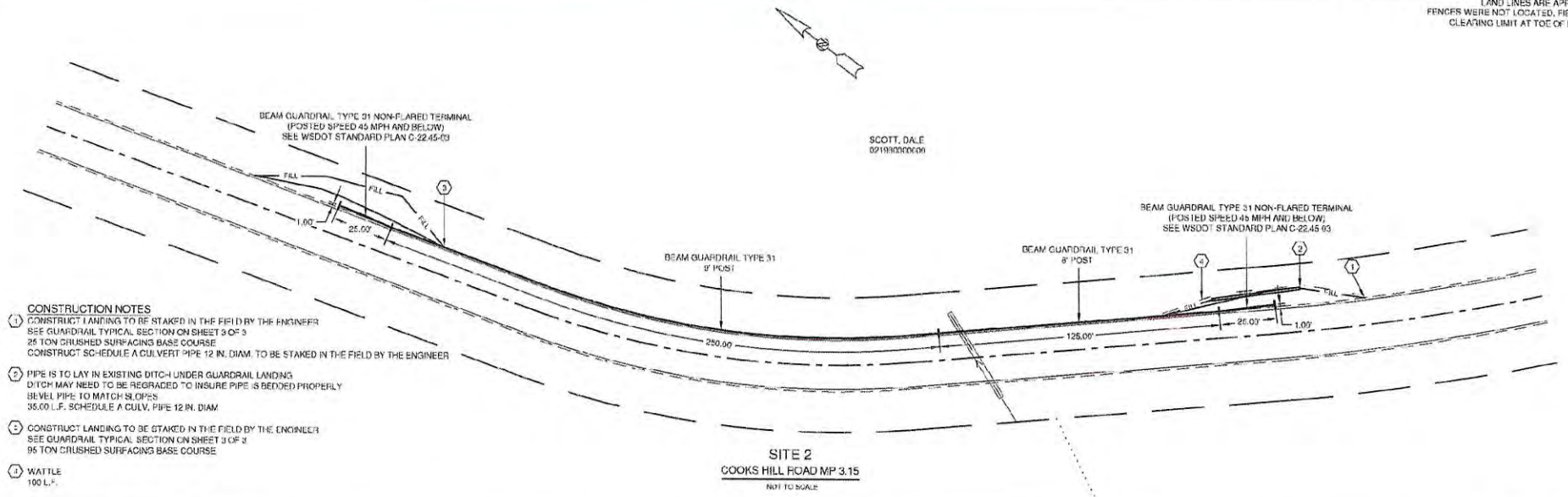
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 5-27-19



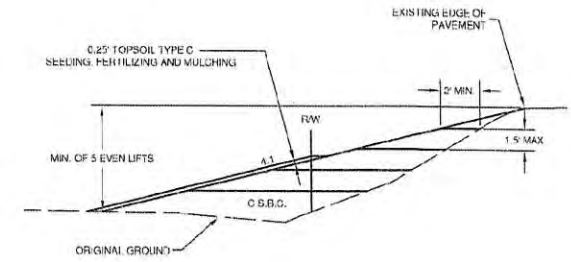
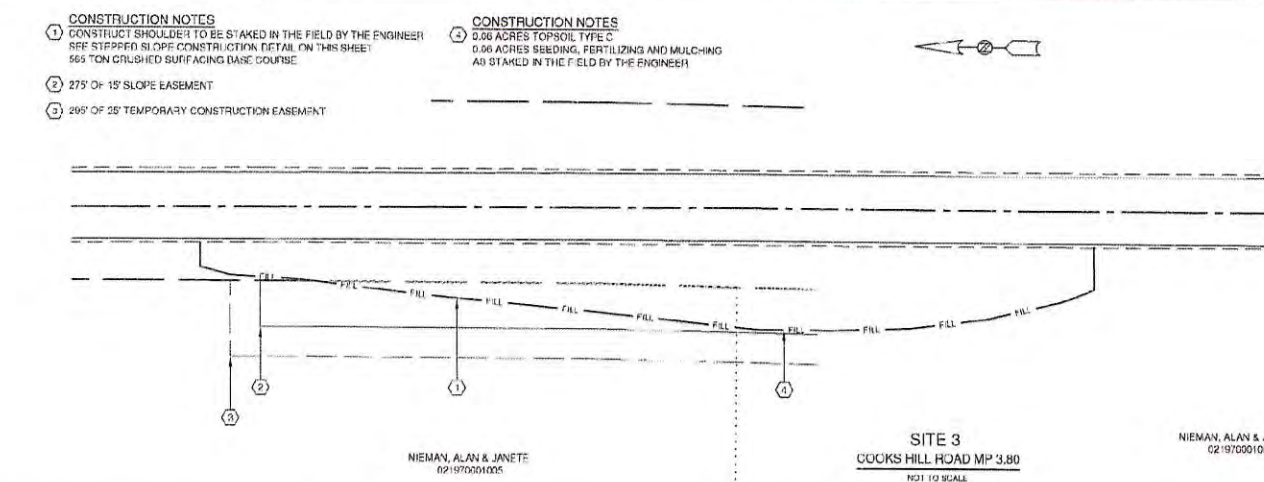
EXPIRES 5/23/19

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LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98502
PHONE # (360) 743-1129
FAX # (360) 743-2719

DESIGNED BY: DJC
DRAWN BY: KLC
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL AID NO: HSP-COCS(479)
COUNTY PROJECT NO: 2182B
COOKS HILL ROAD SITE 2 & 3

SHEET
C3
OF
C4



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 5-27-19

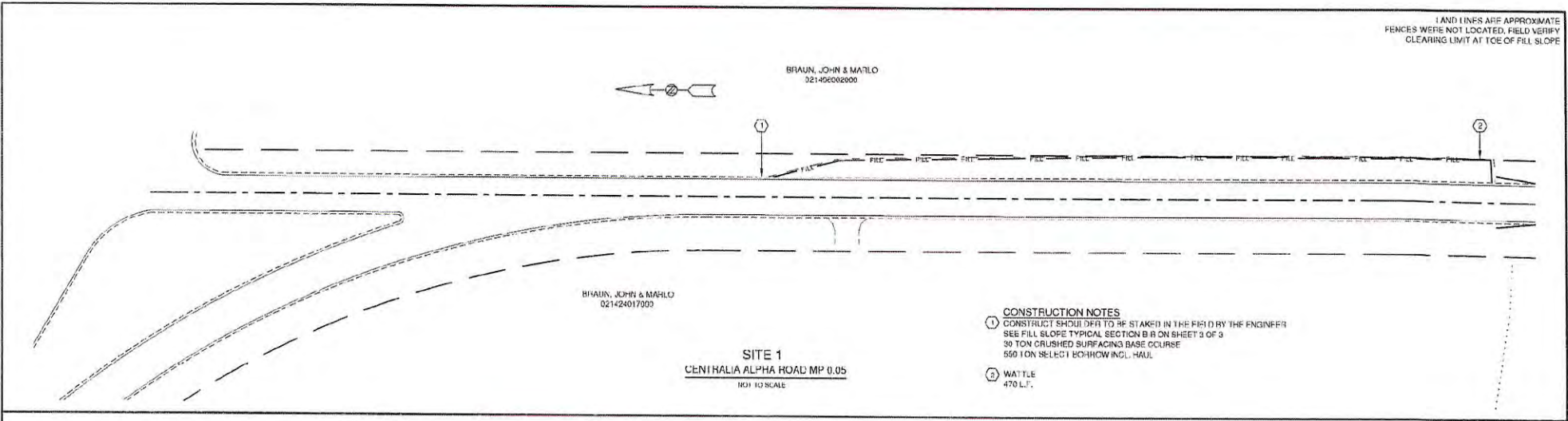


EXPIRES 5/31/19

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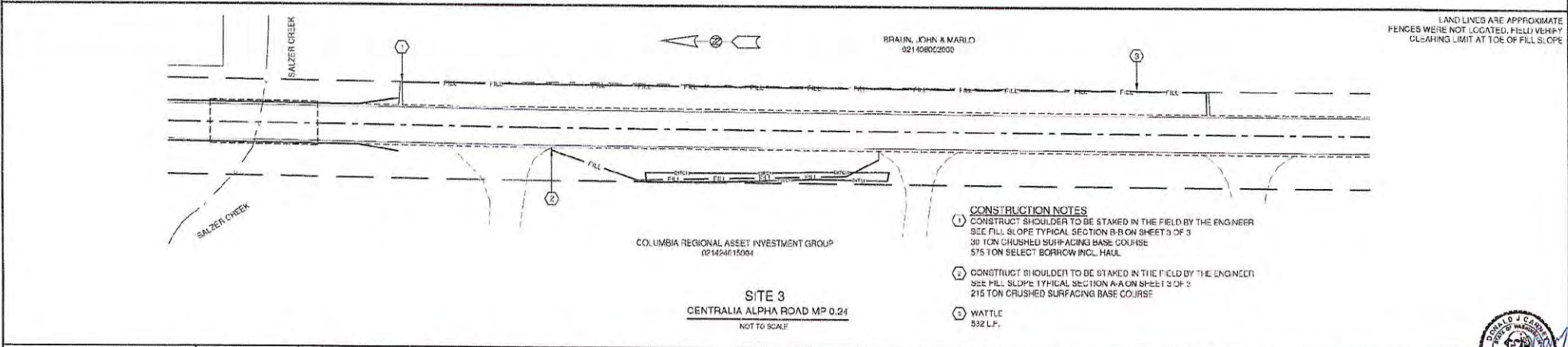
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LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED. FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



SITE 2 REMOVED FROM PROJECT

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED. FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



Lewis County
Department of Public Works

2025 N. E. KHESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 743-1123
FAX # (360) 740-2719

DESIGNED BY: DJC
DRAWN BY: CGA
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-0005(479)
COUNTY PROJECT NO: 21836
CENTRALIA ALPHA ROAD SITE 1 & 3

SHEET
CA2
OF
CA2



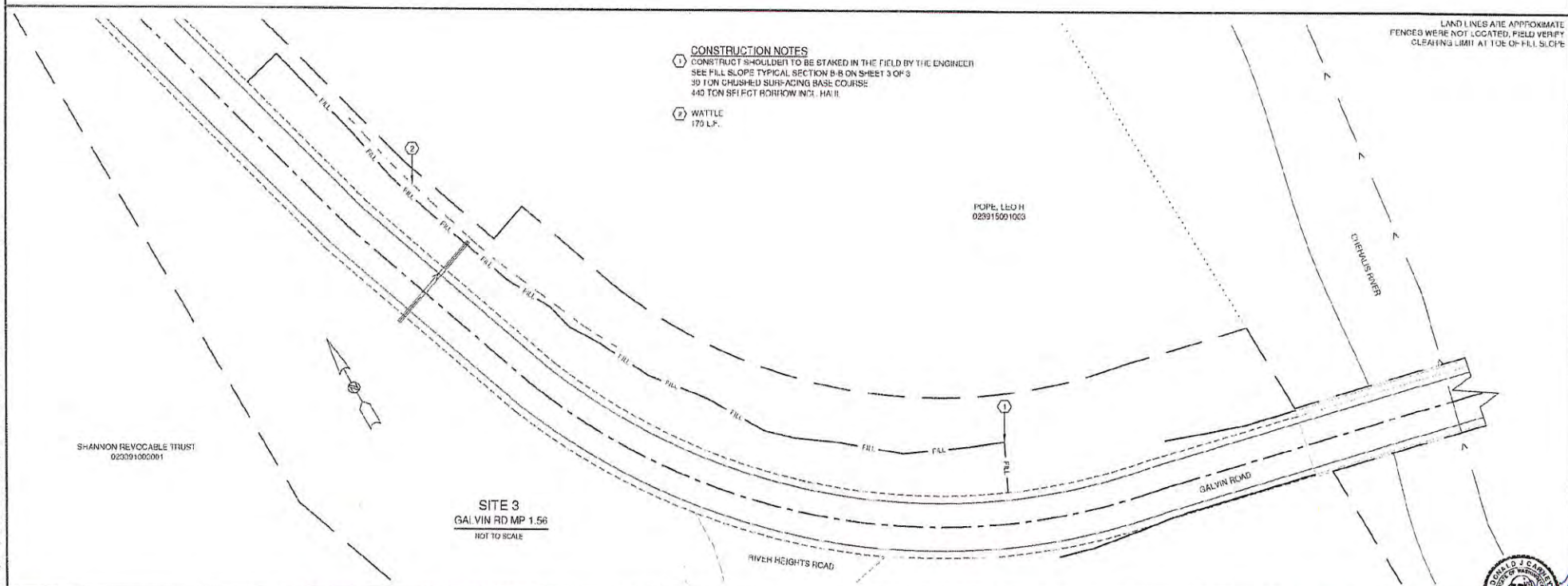
Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 5/27/19



EXPIRES 5/23/19

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SITE 1 & SITE 2 WERE REMOVED FROM PROJECT

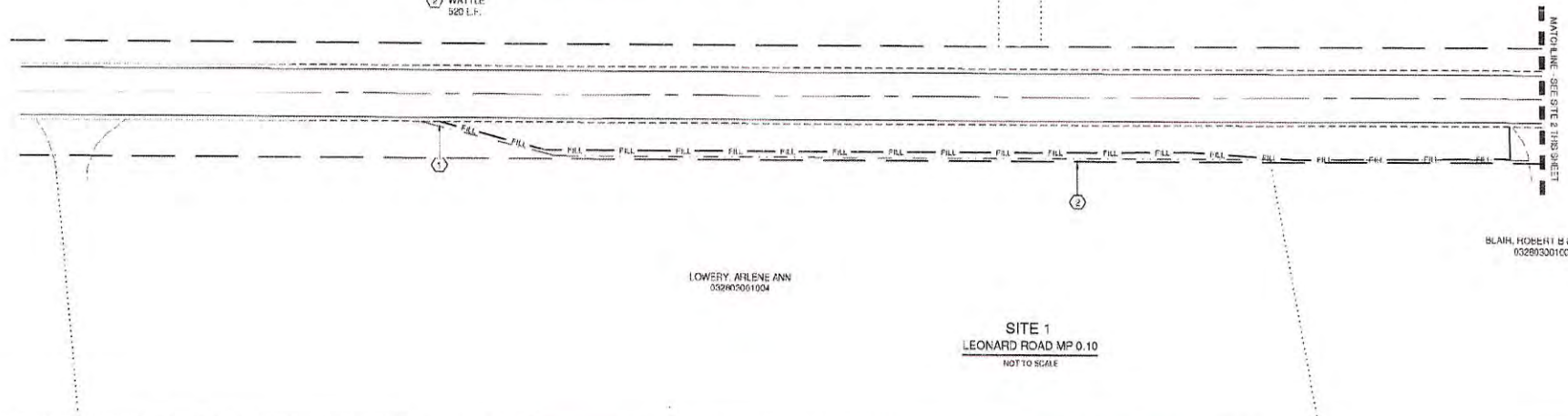


	2025 N. E. KRESKY AVE CHEHALIS WA 98532 PHONE # (360) 740-1123 FAX # (360) 740-2710	DESIGNED BY: DJC DRAWN BY: KLC CHECKED BY: DATE:	NO. DATE REVISION	BY APP.	HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II	FEDERAL AID NO: HSIP-005(H78) COUNTY PROJECT NO: 21658	SHEET G2 OF G2	Donald J. Carney, P.E. Senior Engineer/Design Date: 5-27-19	GALVIN ROAD SITE 3	EXPIRES 5/23/19
			REVISION							

S:\Engineering\Road\Roads\Countywide Programs\County Safety Program\Highway Safety Improvement Projects\SIP Phase II\CIP-21658\Cad\LEONARD ROAD LEONARD RD SITE L2.dwg, 5, 6, 7.dwg 4/8/2013 10:19 AM

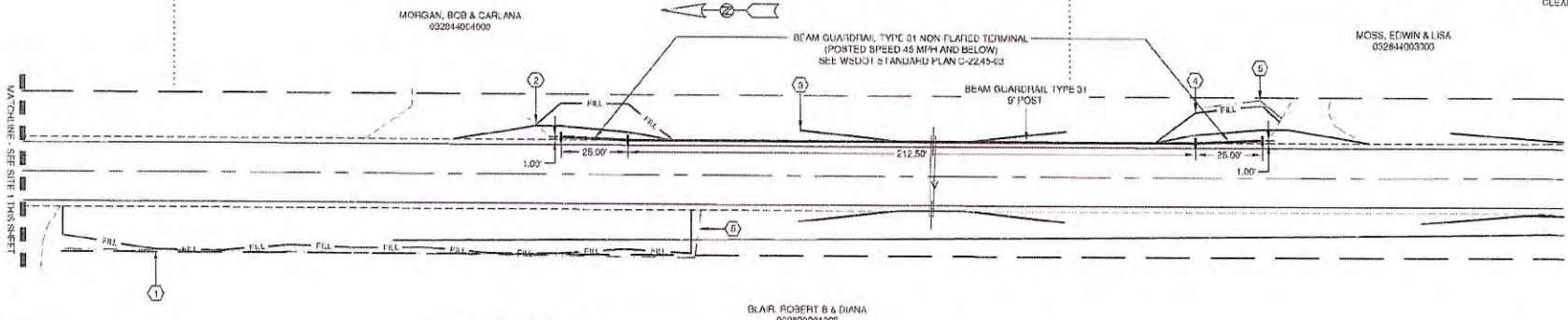
- CONSTRUCTION NOTES**
- 1 CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
310 TON CRUSHED SURFACING BASE COURSE
 - 2 WATTLE
520 L.F.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED. FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



- CONSTRUCTION NOTES**
- 3 REMOVE EXISTING BEAM GUARDRAIL AND ANCHORS
100.00 L.F. REMOVING GUARDRAIL
2.00 EACH REMOVING GUARDRAIL ANCHOR
 - 4 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
60 TON CRUSHED SURFACING BASE COURSE
 - 5 WATTLE
287 L.F.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED. FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



- CONSTRUCTION NOTES**
- 1 CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
170 TON CRUSHED SURFACING BASE COURSE
 - 2 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
60 TON CRUSHED SURFACING BASE COURSE

Lewis County
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY: DJC
DRAWN BY: CGA
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL AID NO: FHSIP-C005(479)
COUNTY PROJECT NO: 21658
LEONARD ROAD SITE 1 & 2

SHEET
L2
OF
L6

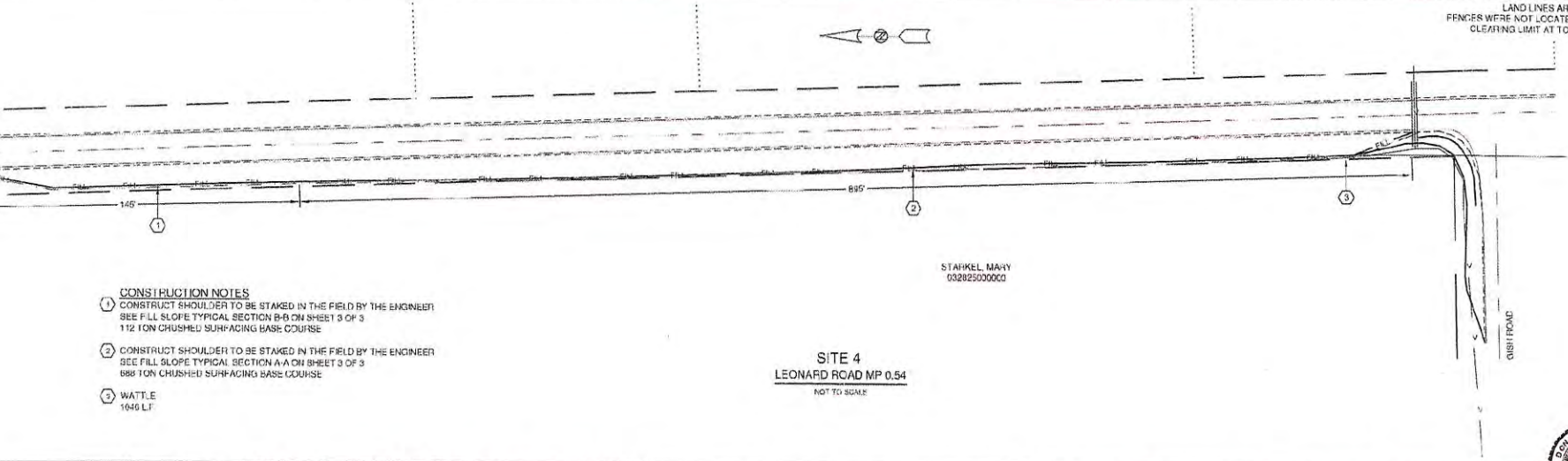
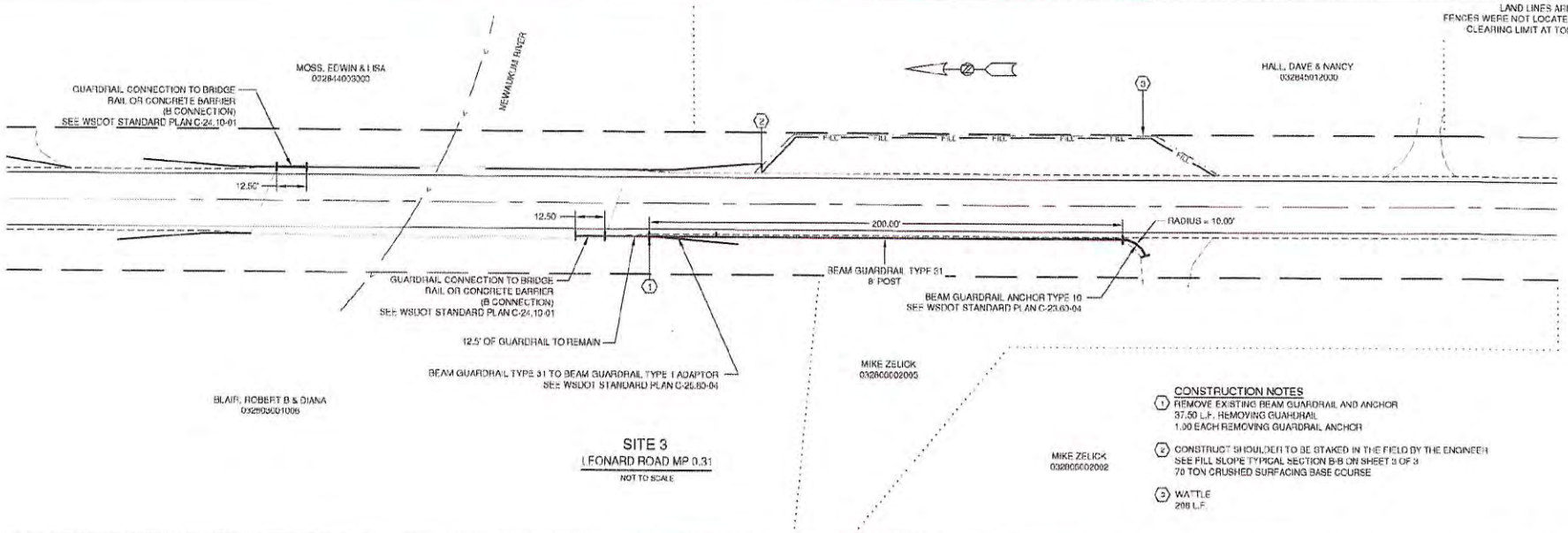


Donald J. Carney, P.E.
Senior Engineer/Design
Date: 5-27-19
EXPIRES 5/23/19



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Lewis County
 2025 N. E. KRESKY AVE.
 CHEHALIS WA 99532
 PHONE # (360) 743-1123
 FAX # (360) 740-2719

DESIGNED BY: DJC
 DRAWN BY: CGA
 CHECKED BY:
 DATE:

NO.	DATE	REVISION	BY	APP

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSIF-0009(479)
 COUNTY PROJECT NO: 21483E
 LEONARD ROAD SITE 3 & 4

SHEET
L3
 OF
L6



Donald J. Carney, P.E.
 Sealer Engineer/Design
 Date: 5-23-19
 EXPIRES 5/23/19



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BIRNEN, CARL
002625001000

- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
200 1CN CHLISHED SURFACING BASE COURSE
 - ② WATTLE
450 L.F.

LUCAS, JIM S. SHIPLEY
032654-000000

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED. FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

SITE 5
LEONARD ROAD MF 0.84
NOT TO SCALE

Lewis County
Expeditors of Public Works
2024 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2710

DESIGNED BY: DJC
DRAWN BY: CGA
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-005S(479)
COUNTY PROJECT NO. 21659

LEONARD ROAD SITE 5

SHEET
L4
OF
L6



Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19

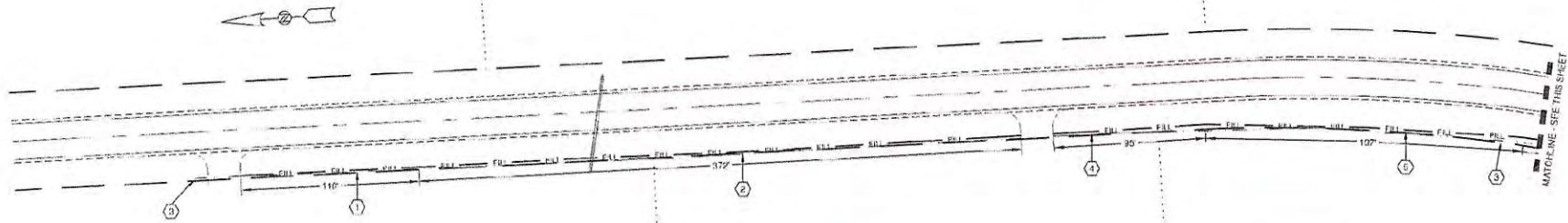


EXPIRES 5/23/19

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LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED. FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



TIMBER SERVICES INC.
027691002900

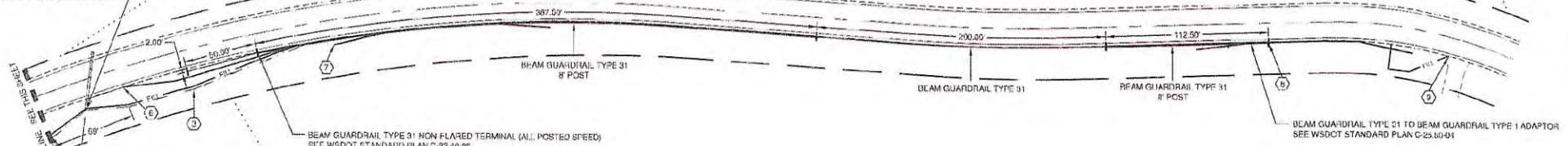
TIMBER SERVICES INC.
027693000000

TIMBER SERVICES INC.
027694000000

- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A ON SHEET 3 OF 3
145 TON CRUSHED SURFACING BASE COURSE
 - ② CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
185 TON CRUSHED SURFACING BASE COURSE
 - ③ WATTLE
1905 L.F.
 - ④ CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A ON SHEET 3 OF 3
176 TON CRUSHED SURFACING BASE COURSE
 - ⑤ CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
206 TON CRUSHED SURFACING BASE COURSE

- CONSTRUCTION NOTES**
- ① CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
139 TON CRUSHED SURFACING BASE COURSE
 - ⑦ REMOVE EXISTING BEAM GUARDRAIL AND ANCHORS
150.00 L.F. REMOVING BEAM GUARDRAIL
2.00 EACH REMOVING GUARDRAIL ANCHOR
 - ④ REMOVE EXISTING BEAM GUARDRAIL AND ANCHOR
AND CONSTRUCT BEAM GUARDRAIL TYPE 31
63.00 L.F. REMOVING GUARDRAIL
1.00 EACH REMOVING GUARDRAIL ANCHOR
 - ⑤ CONSTRUCT LANDING AND SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
55 TON CRUSHED SURFACING BASE COURSE

MATCH FILL SLOPE AROUND
EXISTING 18 IN. CMP CULVERT



TIMBER SERVICES INC.
027694000000

SITE 6
LEONARD ROAD MP 1.08
NOT TO SCALE

LYONS, WHYLO & RACHEL
027697011001

Lewis County
Department of Public Works
2625 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1129
FAX # (360) 740-9719

DESIGNED BY: DJC
DRAWN BY: DSA
CHECKED BY:
DATE:

NO.	DATE

REVISION

BY APP

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL AID NO: HSP-COOS-479
COUNTY PROJECT NO: 2185B

LEONARD ROAD SITE 6

SHEET
L5
OF
L6



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 3-27-19



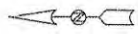
EXPIRES 5/23/19

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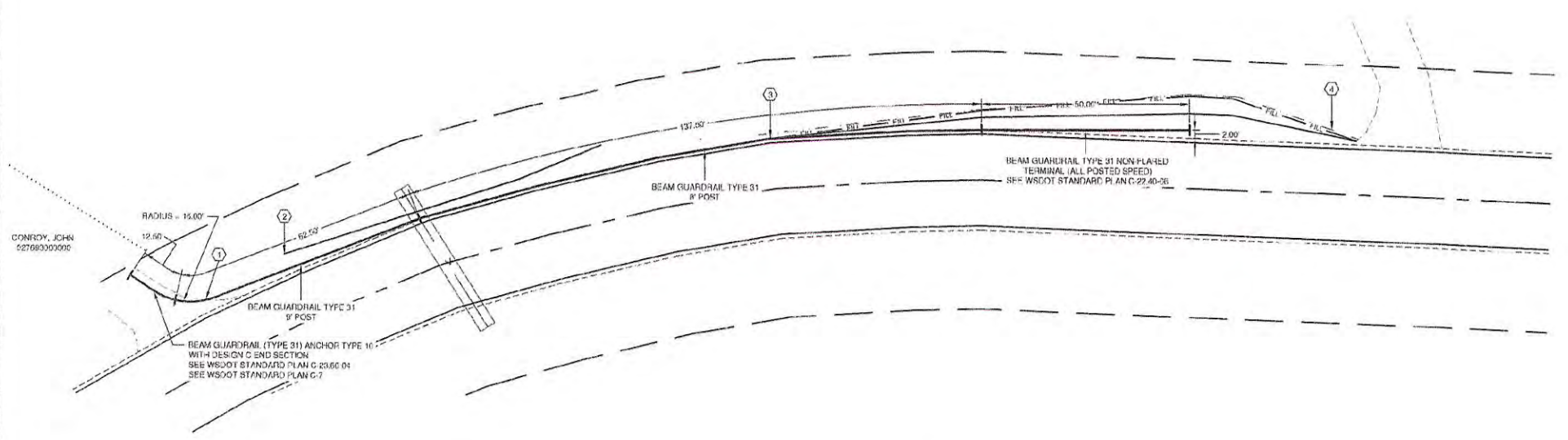
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1 AND 1 INES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



LONG, ANTHONY & CAROL
02745000000



- CONSTRUCTION NOTES**
- REMOVE ASPHALT AS NEEDED FOR POST PLACEMENT
L.S. REMOVAL OF STRUCTURES AND OBSTRUCTIONS
 - REMOVE EXISTING GUARDRAIL AND ANCHORS
100.00 L.F. REMOVING GUARDRAIL
2.00 EACH REMOVING GUARDRAIL ANCHOR
 - CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
70 TON CRUSHED SURFACING BASE COURSE
 - WATTLE
147 L.F.

SITE 7
LEONARD ROAD MP 1.78
NOT TO SCALE

Lewis County
2025 N. E. KHESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1129
FAX # (360) 740-2716

DESIGNED BY: DJC
DRAWN BY: CGA
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO. HSP-005(479)
COUNTY PROJECT NO. 2185B
LEONARD ROAD SITE 7

SHEET
L6
OF
L6



Donald J. Corney, P.E.
Senior Engineer/Designer
Date: 3-27-19



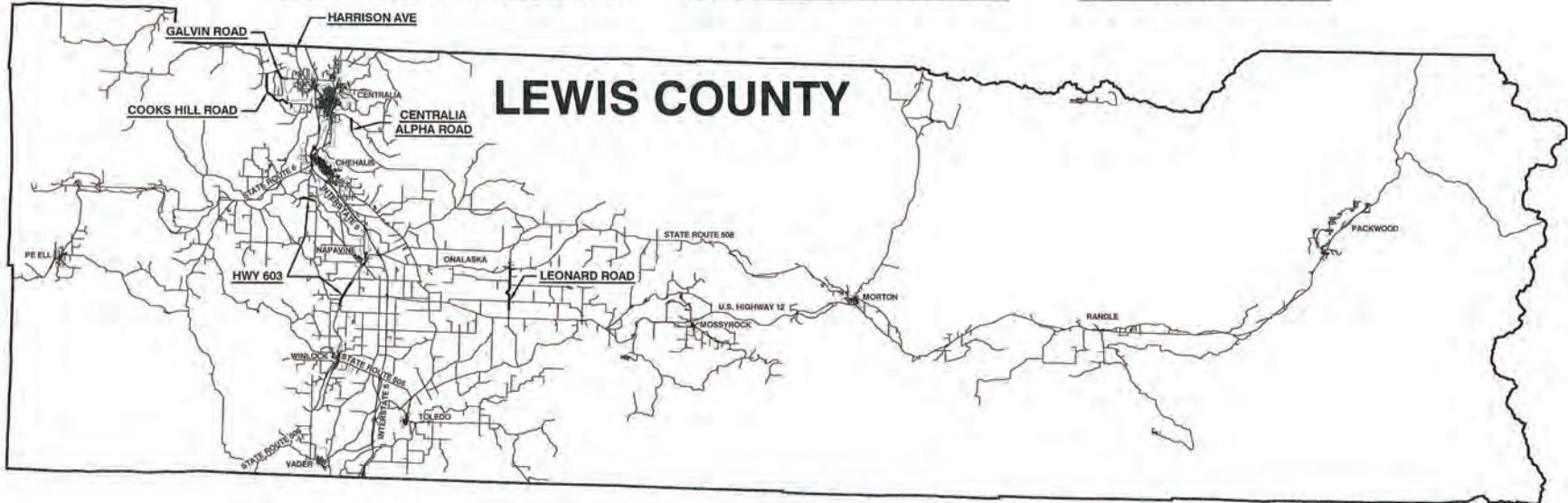
EXPIRES 5/23/19

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

COUNTY ROAD PROJECT NO: 2185B

FEDERAL AID NO. HSIP-000S(479)

F.A. CONTRACT # TA 6330



VICINITY MAP

NOT TO SCALE

ROADWAY SECTIONS INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES & LEGEND
3	TYPICAL SECTIONS
C1	COOKS HILL ROAD SUMMARY OF QUANTITIES
C2	COOKS HILL ROAD SITE 1
C3	COOKS HILL ROAD SITE 2 & 3
C4	COOKS HILL ROAD SITE 4
CA1	CENTRALIA ALPHA ROAD SUMMARY OF QUANTITIES
CA2	CENTRALIA ALPHA ROAD SITE 1 & 3
G1	GALVIN ROAD SUMMARY OF QUANTITIES
G2	GALVIN ROAD SITE 3
H1	HARRISON AVENUE SUMMARY OF QUANTITIES
H2	HARRISON AVENUE SITE 1
HY1	HWY 603 SUMMARY OF QUANTITIES
HY2	HWY 603 SITE 1 & 4
L1	LEONARD ROAD SUMMARY OF QUANTITIES
L2	LEONARD ROAD SITE 1 & 2
L3	LEONARD ROAD SITE 3 & 4
L4	LEONARD ROAD SITE 5
L5	LEONARD ROAD SITE 6
L6	LEONARD ROAD SITE 7

COMMISSIONERS:

EDNA J. FUND, DISTRICT 1
BOBBY JACKSON, DISTRICT 2
GARY STAMPER, DISTRICT 3



ENGINEERING-
DESIGN SECTION

LEWIS COUNTY
DEPARTMENT OF PUBLIC WORKS
APPROVED FOR CONSTRUCTION:

Assistant County Engineer

Date



HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
3	0170	REMOVING GUARDRAIL	637.5	L.F.
4	0182	REMOVING GUARDRAIL ANCHOR	13	EACH
5	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
6	0408	SELECT BORROW INCL. HAUL	1565	TON
7	S.P.	STEPPED SLOPE CONSTRUCTION	565	TON
DRAINAGE				
8	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	87	L.F.
SURFACING				
9	5100	CRUSHED SURFACING BASE COURSE	4532	TON
EROSION CONTROL AND ROADSIDE PLANTING				
10	6409	TOPSOIL TYPE C	0.06	ACRE
11	6414	SEEDING, FERTILIZING, AND MULCHING	0.06	ACRE
12	6479	WATTLE	5041	L.F.
TRAFFIC				
13	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	1662.5	L.F.
14	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	700	L.F.
15	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	1	EACH
16	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	11	EACH
17	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	125	L.F.
18	6751	BEAM GUARDRAIL TYPE 1	12.5	L.F.
19	6755	BEAM GUARDRAIL BLOCK	33	EACH
20	6757	BEAM GUARDRAIL TYPE 31	237.5	L.F.
21	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	6	EACH
22	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	1	EACH
23	6766	BEAM GUARDRAIL ANCHOR TYPE 10	2	EACH
24	6783	RAISING EXISTING BEAM GUARDRAIL	62.5	L.F.
25	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
26	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	12.5	L.F.
27	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	352	EACH
OTHER ITEMS				
28	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
29	7562	MAILBOX SUPPORT TYPE 1	1	EACH
30	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
31	7728	MINOR CHANGE	CALC	CALC
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM

LEGEND

EXISTING FEATURES

	CULVERT/STORM SEWER
	FLOW (DITCH)
	CENTERLINE
	EDGE OF ROADWAY
	GUARDRAIL
	APPROACH
	BRIDGE/SIDEWALK
	FOG LINE

SURVEY FEATURES

	RIGHT OF WAY
	PROPERTY LINE
	PERMANENT SLOPE EASEMENT
	TEMPORARY CONSTRUCTION EASEMENT
	COUNTY LINE

NEW CONSTRUCTION FEATURES

	CALLOUT
	CULVERT/ CULVERT EXTENSION
	LANDINGS & FILL SLOPES
	GUARDRAIL
	FILL
	WATTLE

GENERAL NOTES

- AT ALL TIMES FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL HAVE ON HAND, THE PROJECT CONTRACT PROVISIONS AND PLANS, AND A CURRENT EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (M-41-10).
- THE CONTRACTOR WILL COORDINATE, COOPERATE AND ASSIST IN THE INSPECTION PROCESSES THAT IS REQUIRED FOR THE COMPLETION OF THE PROJECT.
- AT NO COST TO THE CONTRACTOR, ALL NECESSARY CONSTRUCTION SURVEY REQUESTS SHALL BE GIVEN A 3 DAY IN ADVANCE WRITTEN NOTICE. HOWEVER, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING NEEDED SURVEY STAKES DESTROYED THROUGH NORMAL OPERATIONS, NEGLIGENCE, OR INATTENTION.
- AT THE END OF EACH DAY, THE CONTRACTOR SHALL CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURED MANNER. UPON COMPLETION, THE CONTRACTOR SHALL LEAVE THE PROJECT FREE OF DEBRIS AND UNUSED MATERIAL.
- THE CONTRACTOR IS TO MAINTAIN INGRESS AND EGRESS FROM THE PROJECT SITE, AND PRIVATE PROPERTY DRIVEWAYS DURING CONSTRUCTION.
- AT A MINIMUM, THE CONTRACTOR IS TO MAINTAIN ALTERNATING ONE WAY TRAFFIC CONTROL UNLESS APPROVED TRAFFIC CONTROL PLAN ALLOWS OTHERWISE.



DESIGNED BY: DJC	NO.	DATE	REVISION	BY	APP.
DRAWN BY: KLC					
CHECKED BY:					
DATE:					

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSP-0005(478)
COUNTY PROJECT NO: 2185B

SUMMARY OF QUANTITIES & LEGEND

SHEET
2 OF 3



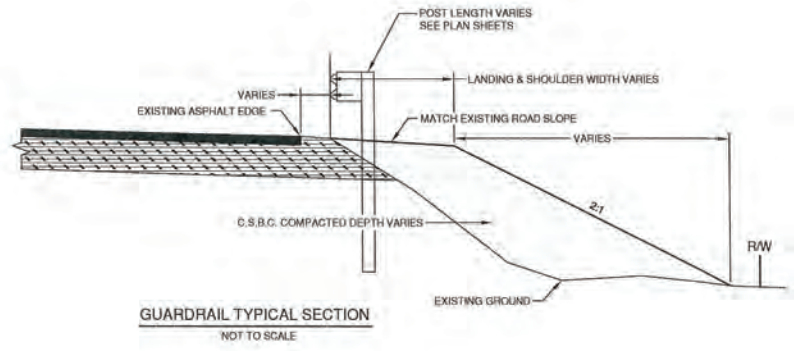
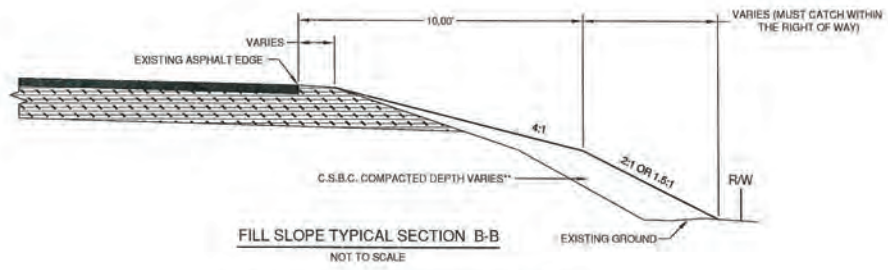
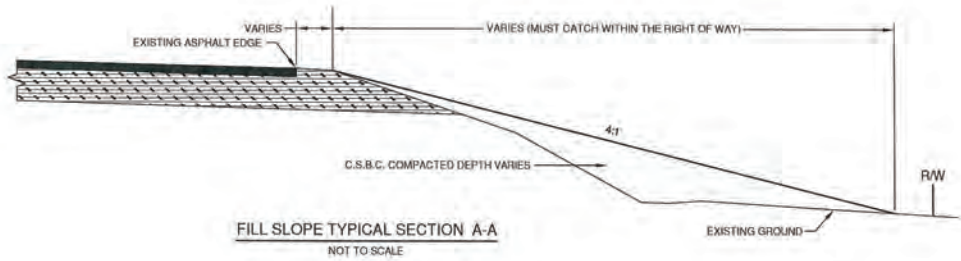
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 5-27-19



EXPIRES 5/23/19

S:\Engineer\Road\Folders\Countywide Programs\Highway Safety Improvement\Projects\HSIP Phase II\CRP-21855\Drawings\LEONARD ROAD\LEONARD RD SITE 1&2, 3&4, 5, 6, 7.dwg 4/22/19 6:10 AM

CONSTRUCTION NOTES
 KEYSTONE SHALL BE PLACED IN THE TOP 0.10' OF C.S.B.C.
 AS DIRECTED BY THE ENGINEER



** ALL SITES SHALL USE C.S.B.C. COMPACTED DEPTH VARIES EXCEPT FOR THE FOLLOWING SITES SHALL USE SELECT BORROW COMPACTED DEPTH VARIES UP TO 1' BELOW FINISH SHOULDER, THE TOP 1' SHALL BE C.S.B.C.
 GALVIN ROAD SITE 3
 CENTRALIA ALPHA ROAD SITES 1 & 3

Lewis County
 Department of Public Works
 2025 N. E. KRESKY AVE.
 CHEHALIS WA 98522
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY: DJC
 DRAWN BY: CGA
 CHECKED BY:
 DATE:

NO.	DATE	REVISION	BY	APP.

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO. HSIP-0005(478)
 COUNTY PROJECT NO: 21855
 TYPICAL SECTIONS

SHEET
3
 OF
3

CALL AN HOUR BEFORE YOU DIG
 1-800-424-5555
 "TICKLE THE LINE"
 Utilities Underground Location Center

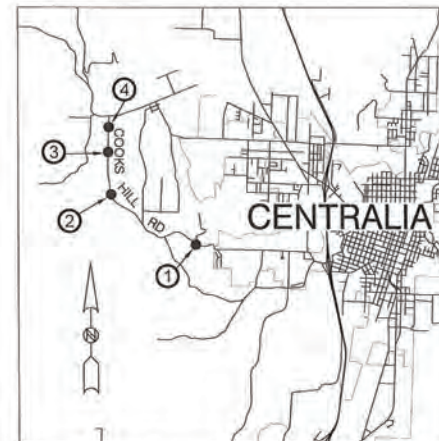
Donald J. Carney, P.E.
 Senior Engineer/Design
 Date: 5-27-19



COOKS HILL ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
3	0170	REMOVING GUARDRAIL	175	L.F.
4	0182	REMOVING GUARDRAIL ANCHOR	4	EACH
5	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
6	0408	SELECT BORROW INCL. HAUL	0	TON
7	S.P.	STEPPED SLOPE CONSTRUCTION	565	TON
DRAINAGE				
8	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	87	L.F.
SURFACING				
9	5100	CRUSHED SURFACING BASE COURSE	877	TON
EROSION CONTROL AND ROADSIDE PLANTING				
10	6409	TOPSOIL TYPE C	0.06	ACRE
11	6414	SEEDING, FERTILIZING, AND MULCHING	0.06	ACRE
12	6479	WATTLE	200	L.F.
TRAFFIC				
13	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	825	L.F.
14	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	425	L.F.
15	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
16	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	7	EACH
17	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	125	L.F.
18	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
19	6755	BEAM GUARDRAIL BLOCK	0	EACH
20	6757	BEAM GUARDRAIL TYPE 31	37.5	L.F.
21	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
22	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	0	EACH
23	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
24	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
25	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
26	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	0	L.F.
27	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	166	EACH
OTHER ITEMS				
28	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
29	7562	MAILBOX SUPPORT TYPE 1	1	EACH
30	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
31	7728	MINOR CHANGE	CALC	CALC
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

4/1/2019 6:07 AM S:\Engineer_Road\Folder_Countywide Programs\County Safety Program\Highway Safety Improvement Project\HSIP Phase II CTR-21(BSD)Drawing\SUMMARY OF QUANTITIES.dwg

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLC
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL AID NO: HSIP-0005(472)
COUNTY PROJECT NO: 2185B
COOKS HILL ROAD
SUMMARY OF QUANTITIES

SHEET
C1
OF
C4



Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 5-27-19



EXPIRES 5/23/19

4/4/2019 6:11 AM

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LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



- CONSTRUCTION NOTES**
- ① CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
30 TON CRUSHED SURFACING BASE COURSE
 - ② CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
10 TON CRUSHED SURFACING BASE COURSE
 - ③ WATTLE
100 L.F.

BASS, JEFFREY D & CHELSEI L
010907049003

BOND, ROBERT I & KRISTEN A
022118003001

BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL
(POSTED SPEED 45 MPH AND BELOW)
SEE WSDOT STANDARD PLAN C-22-45-03

BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL
(POSTED SPEED 45 MPH AND BELOW)
SEE WSDOT STANDARD PLAN C-22-45-03

NOTE:
FACE OF GUARDRAIL IS TO REMAIN 1.00' FROM EDGE OF HMA

BEAM GUARDRAIL TYPE 31
8' POST

②

BEAM GUARDRAIL TYPE 31

BEAM GUARDRAIL TYPE 31
9' POST

2.00'

25.00'

37.50'

175.00'

SUMMERSIDE DRIVE

187.00'

COOKS HILL ROAD

SITE 1
COOKS HILL ROAD MP 1.70
NOT TO SCALE

Lewis County
Department of Public Works

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSP-0005(470)
COUNTY PROJECT NO: 2185B

COOKS HILL ROAD SITE 1

SHEET
C2
OF
C4

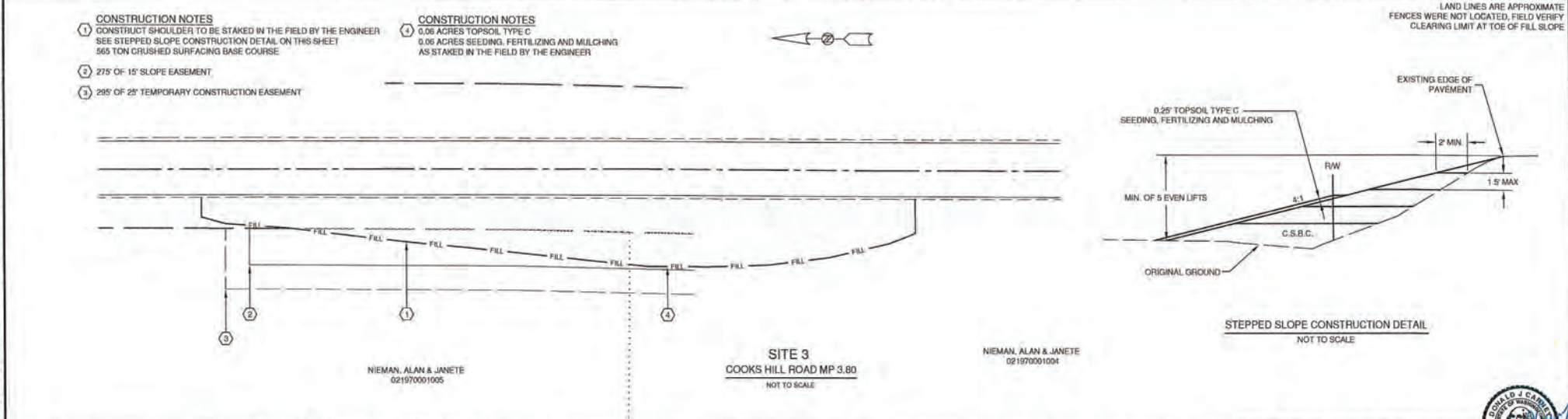
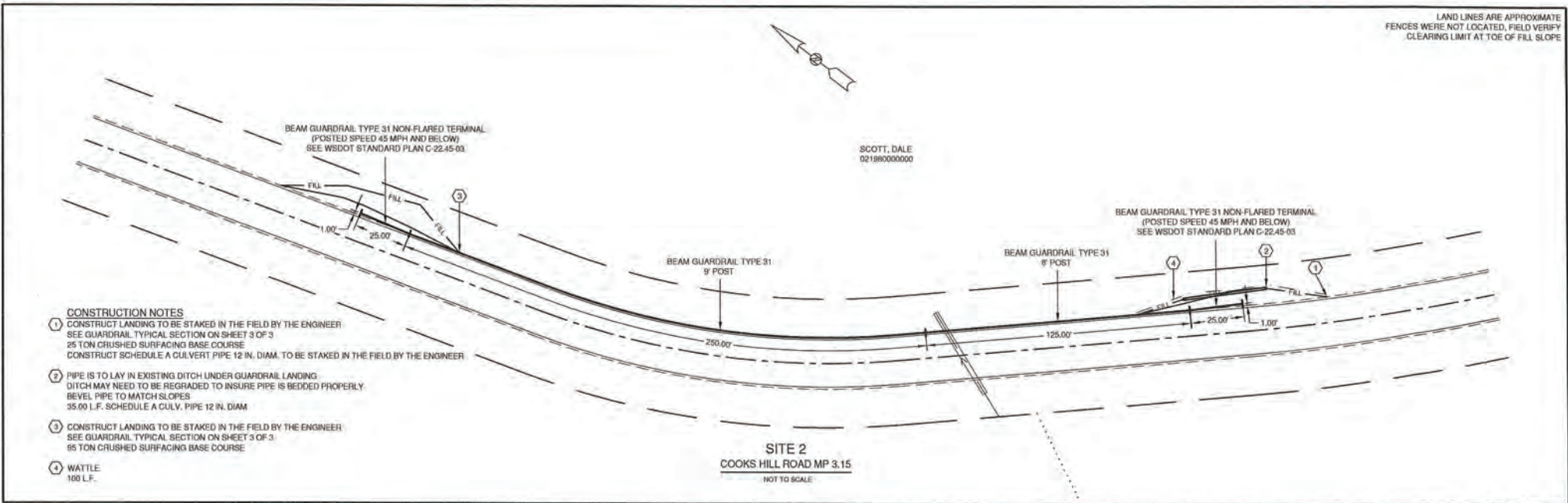


Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19



EXPIRES 5/23/19

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Lewis County
Department of Public Works

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY: DJC
DRAWN BY: KLC
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO. HSIP-005(479)
COUNTY PROJECT NO. 2185B
COOKS HILL ROAD SITE 2 & 3

SHEET
C3
OF
C4

CALL 48 HOURS
BEFORE POURING
1-800-426-0000
700-0000 Local
Littlive
Underground
Locust Center

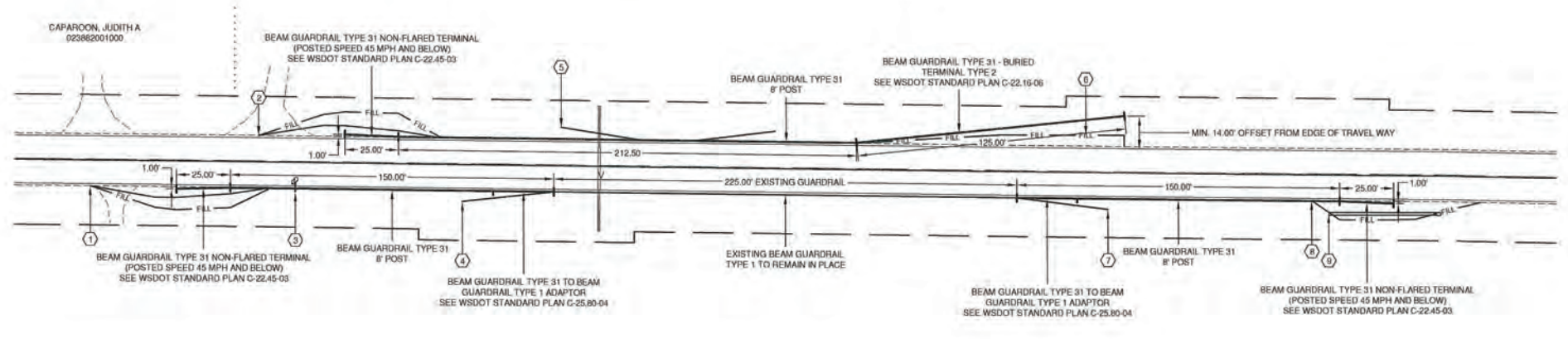
Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 5-27-19



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LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

JOHNSON, YVONNE
023882002000



ERICKSON, PAUL A & KRISTEN
023883000000

SITE 4
COOKS HILL ROAD MP 4.08
NOT TO SCALE

- CONSTRUCTION NOTES**
- 1 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
47 TON CRUSHED SURFACING BASE COURSE
 - 2 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
55 TON CRUSHED SURFACING BASE COURSE
 - 3 REPLACE EXISTING MAILBOX AND PAPER BOX LOCATION TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE WSDOT STANDARD PLAN H-70.10-01
1.00 EACH MAILBOX SUPPORT TYPE 1
 - 4 REMOVE EXISTING BEAM GUARDRAIL AND ANCHOR
37.50 L.F. REMOVING GUARDRAIL
1.00 EACH REMOVING GUARDRAIL ANCHOR
 - 5 REMOVE EXISTING BEAM GUARDRAIL AND ANCHORS
100.00 L.F. REMOVING GUARDRAIL
2.00 EACH REMOVING GUARDRAIL ANCHORS

- CONSTRUCTION NOTES**
- 6 CONSTRUCT 4:1 FILL SLOPE TO BE STAKED IN THE FIELD BY THE ENGINEER
10 TON CRUSHED SURFACING BASE COURSE
 - 7 REMOVE EXISTING BEAM GUARDRAIL AND ANCHOR
37.50 L.F. REMOVING GUARDRAIL
1.00 EACH REMOVING GUARDRAIL ANCHOR
 - 8 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
46 TON CRUSHED SURFACING BASE COURSE
 - 9 CONSTRUCT SCHEDULE A CULVERT PIPE 12 IN. DIAM. TO BE STAKED IN THE FIELD BY THE ENGINEER
PIPE IS TO LAY IN EXISTING DITCH UNDER GUARDRAIL LANDING
DITCH MAY NEED TO BE REGRADED TO INSURE PIPE IS BEDDED PROPERLY
BEVEL PIPE TO MATCH SLOPES
52.00 L.F. SCHEDULE A CULV. PIPE 12 IN. DIAM.

MAILBOX

Lewis County
2025 N. E. KHESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719
Department of Public Works

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-000(479)
COUNTY PROJECT NO: 21858
COOKS HILL ROAD SITE 4

SHEET
C4
OF
C4



Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 5-27-19

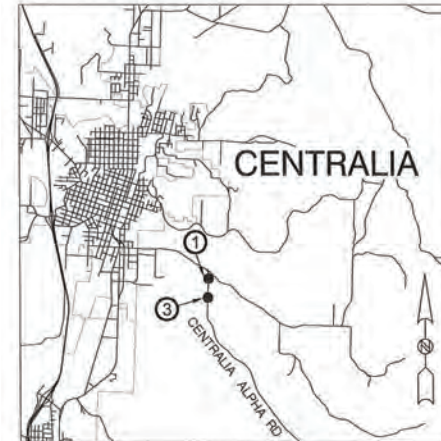


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CENTRALIA ALPHA ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
3	0170	REMOVING GUARDRAIL	0	L.F.
4	0182	REMOVING GUARDRAIL ANCHOR	0	EACH
5	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
6	0408	SELECT BORROW INCL. HAUL	1125	TON
7	S.P.	STEPPED SLOPE CONSTRUCTION	0	TON
DRAINAGE				
8	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	0	L.F.
SURFACING				
9	5100	CRUSHED SURFACING BASE COURSE	275	TON
EROSION CONTROL AND ROADSIDE PLANTING				
10	6409	TOPSOIL TYPE C	0	ACRE
11	6414	SEEDING, FERTILIZING, AND MULCHING	0	ACRE
12	6479	WATTLE	1002	L.F.
TRAFFIC				
13	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
14	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	0	L.F.
15	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
16	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
17	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	0	L.F.
18	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
19	6755	BEAM GUARDRAIL BLOCK	0	EACH
20	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
21	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
22	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	0	EACH
23	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
24	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
25	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
26	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	0	L.F.
27	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	0	EACH
OTHER ITEMS				
28	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
29	7562	MAILBOX SUPPORT TYPE 1	0	EACH
30	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
31	7728	MINOR CHANGE	CALC	CALC
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-0005(479)
COUNTY PROJECT NO: 2185B
CENTRALIA ALPHA ROAD
SUMMARY OF QUANTITIES

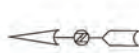
SHEET
CA1
OF
CA2

Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 5-27-19

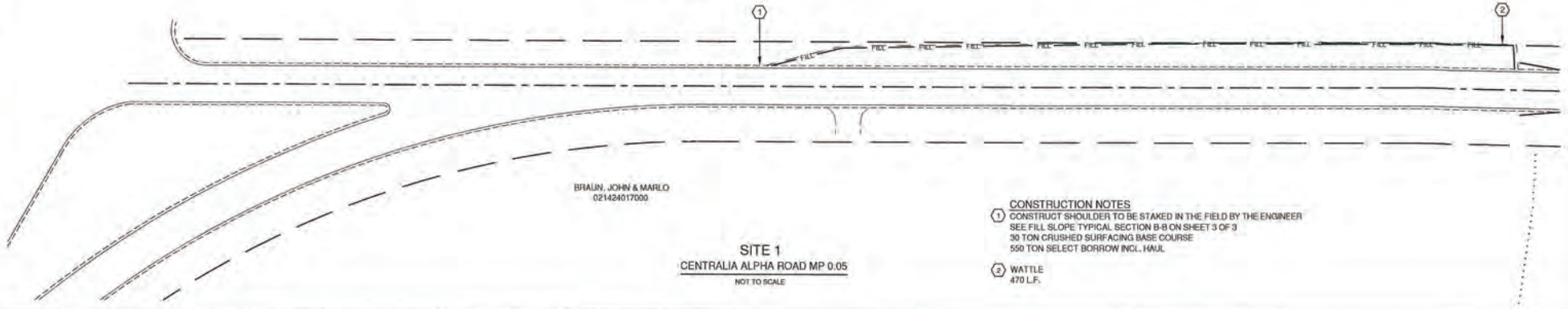


S:\Engineer\Road\Folders\Countywide Programs\County Safety Program\Highway Safety Improvement Project\HSIP Phase II CRP-21859\Drawing\CEVA RD\CENTRALIA ALPHA ROAD SITE 1 & 2.dwg 4/12/2019 8:14 AM

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED. FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



BRAUN, JOHN & MARLO
021409002000



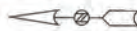
BRAUN, JOHN & MARLO
021424017000

SITE 1
CENTRALIA ALPHA ROAD MP 0.05
NOT TO SCALE

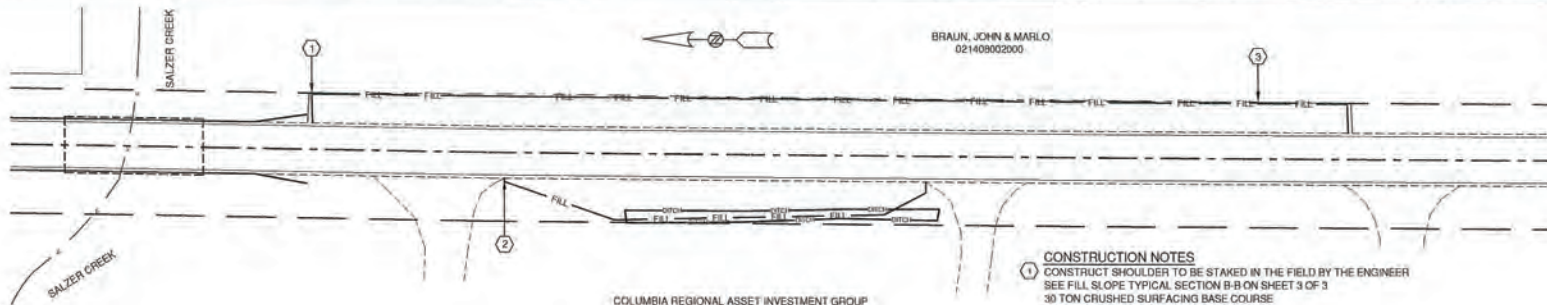
- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
30 TON CRUSHED SURFACING BASE COURSE
550 TON SELECT BORROW INCL. HAUL
 - ② WATTLE
470 L.F.

SITE 2 REMOVED FROM PROJECT

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED. FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



BRAUN, JOHN & MARLO
021409002000



SALZER CREEK

SALZER CREEK

COLUMBIA REGIONAL ASSET INVESTMENT GROUP
021424015004

SITE 3
CENTRALIA ALPHA ROAD MP 0.24
NOT TO SCALE

- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
30 TON CRUSHED SURFACING BASE COURSE
575 TON SELECT BORROW INCL. HAUL
 - ② CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A ON SHEET 3 OF 3
215 TON CRUSHED SURFACING BASE COURSE
 - ③ WATTLE
532 L.F.

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY: DJC
DRAWN BY: CGA
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-000S(473)
COUNTY PROJECT NO: 21858

CENTRALIA ALPHA ROAD SITE 1 & 3

SHEET
CA2
OF
CA2



Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19



EXPIRES 5/23/19

S:\Engineer_Road\Folders_Countywide Programs\County Safety Program\Highway Safety Improvement Project\HSIP Phase II CRIP-2185B\Drawing\SUMMARY OF QUANTITIES.dwg 4/12/2019 8:06 AM

GALVIN ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
3	0170	REMOVING GUARDRAIL	0	L.F.
4	0182	REMOVING GUARDRAIL ANCHOR	0	EACH
5	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
6	0408	SELECT BORROW INCL. HAUL	440	TON
7	S.P.	STEPPED SLOPE CONSTRUCTION	0	TON
DRAINAGE				
8	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	0	L.F.
SURFACING				
9	5100	CRUSHED SURFACING BASE COURSE	30	TON
EROSION CONTROL AND ROADSIDE PLANTING				
10	6409	TOPSOIL TYPE C	0	ACRE
11	6414	SEEDING, FERTILIZING, AND MULCHING	0	ACRE
12	6479	WATTLE	170	L.F.
TRAFFIC				
13	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
14	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	0	L.F.
15	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
16	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
17	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	0	L.F.
18	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
19	6755	BEAM GUARDRAIL BLOCK	0	EACH
20	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
21	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
22	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	0	EACH
23	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
24	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
25	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
26	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	0	L.F.
27	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	0	EACH
OTHER ITEMS				
28	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
29	7562	MAILBOX SUPPORT TYPE 1	0	EACH
30	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
31	7728	MINOR CHANGE	CALC	CALC
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

Lewis County
Department of Public Works
2025 NE KRESKY AVE
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY: DJC
DRAWN BY: KLC
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO. HSIF-0005(478)
COUNTY PROJECT NO. 2185B
GALVIN ROAD
SUMMARY OF QUANTITIES

SHEET
G1
OF
G2



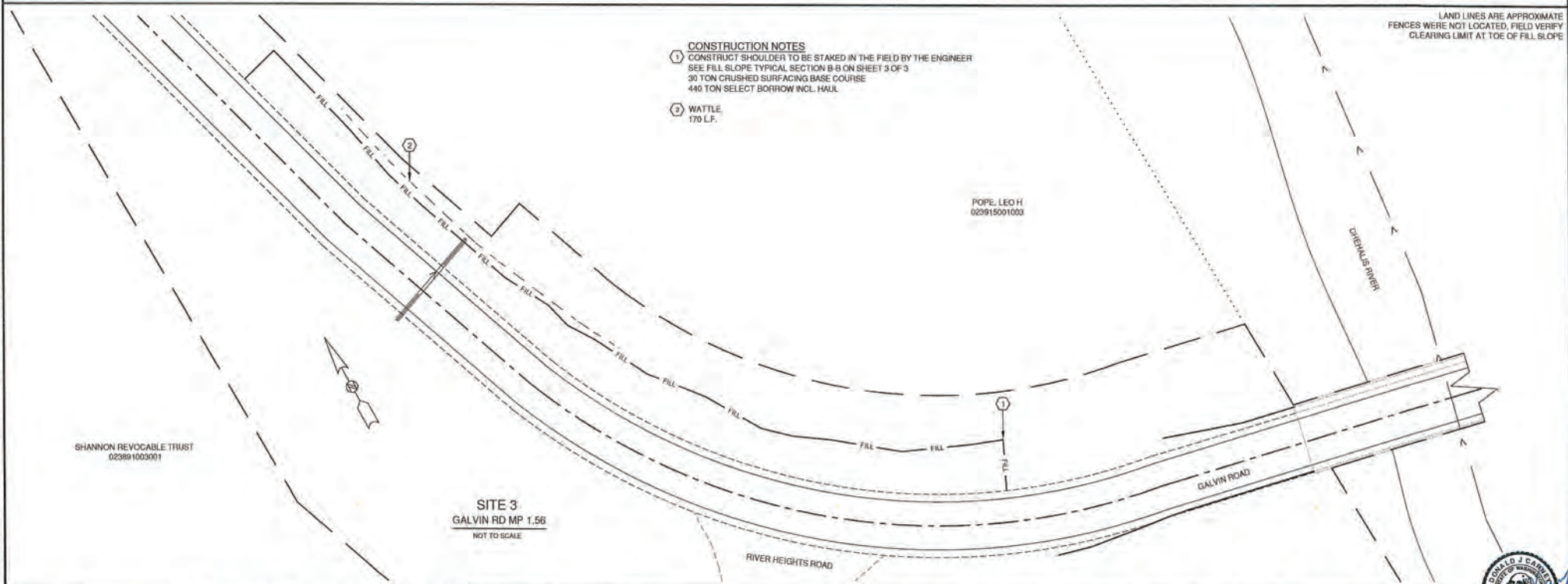
Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 5-27-19



EXPIRES 5/23/19

S:\Engineer\Road\Federal\Countywide Programs\County Safety Program\Highway Safety Improvement Project\HSIP Phase II\CRP-21858\Drawing\GALVIN ROAD\GALVIN ROAD SITE 1 SITE 2\21858\CRP21858.DWG

SITE 1 & SITE 2 WERE REMOVED FROM PROJECT



Lewis County
 Department of Public Works
 2025 N. E. KRISKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY: DJC
 DRAWN BY: KLC
 CHECKED BY:
 DATE:

NO.	DATE	REVISION	BY	APP

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSIP-0005(479)
 COUNTY PROJECT NO: 21858
 GALVIN ROAD SITE 3

SHEET
G2
 OF
G2



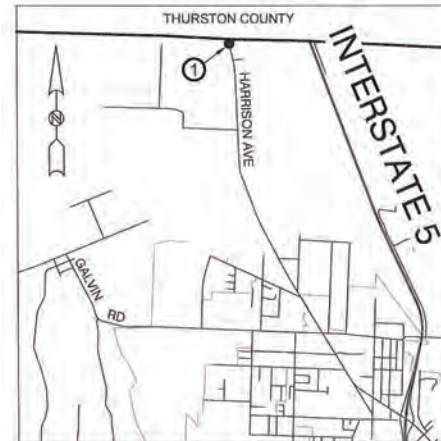
Donald J. Carney, P.E.
 Senior Engineer/Design
 Date: 5-27-19



HARRISON AVENUE

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
	0001	MOBILIZATION	LUMP SUM	LUMP SUM
	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
	0170	REMOVING GUARDRAIL	25	L.F.
	0182	REMOVING GUARDRAIL ANCHOR	1	EACH
	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
	0408	SELECT BORROW INCL. HAUL	0	TON
	S.P.	STEPPED SLOPE CONSTRUCTION	0	TON
DRAINAGE				
	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	0	L.F.
SURFACING				
	5100	CRUSHED SURFACING BASE COURSE	0	TON
EROSION CONTROL AND ROADSIDE PLANTING				
	6409	TOPSOIL TYPE C	0	ACRE
	6414	SEEDING, FERTILIZING, AND MULCHING	0	ACRE
	6479	WATTLE	0	L.F.
TRAFFIC				
	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	0	L.F.
	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	1	EACH
	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	0	L.F.
	6751	BEAM GUARDRAIL TYPE 1	12.5	L.F.
	6755	BEAM GUARDRAIL BLOCK	33	EACH
	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	4	EACH
	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	1	EACH
	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
	6783	RAISING EXISTING BEAM GUARDRAIL	62.5	L.F.
	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	12.5	L.F.
	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	13	EACH
OTHER ITEMS				
	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
	7562	MAILBOX SUPPORT TYPE 1	0	EACH
	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
	7728	MINOR CHANGE	CALC	CALC
	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

S:\Engineer_Road\Folders_Countywide Programs\County Highway Safety Program\Highway Safety Improvement Project\HSIP Phase II\CRP-2185B\Drawing\SUMMARY OF QUANTITIES.dwg 4/11/2018 8:06 AM

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLC
CHECKED BY :
DATE :

NO	DATE	REVISION	BY	APP

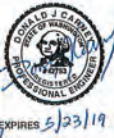
HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSIP-005(479)
COUNTY PROJECT NO: 2185B
HARRISON AVENUE
SUMMARY OF QUANTITIES

SHEET
H1
OF
H2



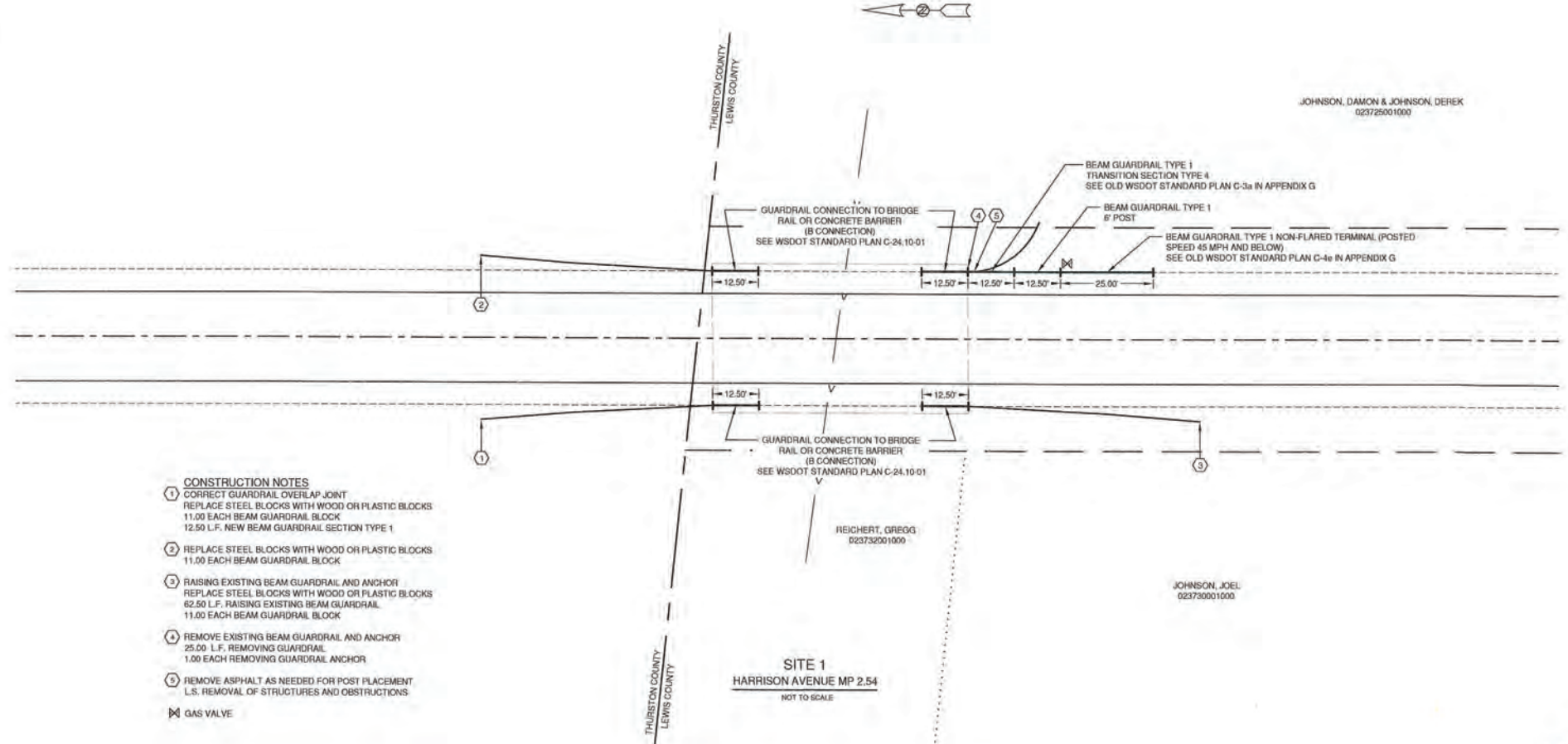
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 3-27-19



EXPIRES 5/23/19

S:\Engineer_Road\Folders_Countywide_Programs\County Safety Program\Highway Safety Improvement\Project\HSIP Phase II (CRP-2)\ISSD\Drawing\HARRISON AVE\HARRISON AVE SITE 1.dwg

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



JOHNSON, DAMON & JOHNSON, DEREK
023725001000

REICHERT, GREGG
023732001000

JOHNSON, JOEL
023730001000

SITE 1
HARRISON AVENUE MP 2.54
NOT TO SCALE

- CONSTRUCTION NOTES**
- ① CORRECT GUARDRAIL OVERLAP JOINT
REPLACE STEEL BLOCKS WITH WOOD OR PLASTIC BLOCKS
11.00 EACH BEAM GUARDRAIL BLOCK
12.50 L.F. NEW BEAM GUARDRAIL SECTION TYPE 1
 - ② REPLACE STEEL BLOCKS WITH WOOD OR PLASTIC BLOCKS
11.00 EACH BEAM GUARDRAIL BLOCK
 - ③ RAISING EXISTING BEAM GUARDRAIL AND ANCHOR
REPLACE STEEL BLOCKS WITH WOOD OR PLASTIC BLOCKS
62.50 L.F. RAISING EXISTING BEAM GUARDRAIL
11.00 EACH BEAM GUARDRAIL BLOCK
 - ④ REMOVE EXISTING BEAM GUARDRAIL AND ANCHOR
25.00 L.F. REMOVING GUARDRAIL
1.00 EACH REMOVING GUARDRAIL ANCHOR
 - ⑤ REMOVE ASPHALT AS NEEDED FOR POST PLACEMENT
L.S. REMOVAL OF STRUCTURES AND OBSTRUCTIONS
- ⊗ GAS VALVE

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY - CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL AID NO: HSIP-0005(476)
COUNTY PROJECT NO: 2185B
HARRISON AVENUE SITE 1

SHEET
H2
OF
H2



Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 5-27-19



HWY 603

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
3	0170	REMOVING GUARDRAIL	0	L.F.
4	0182	REMOVING GUARDRAIL ANCHOR	0	EACH
5	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
6	0408	SELECT BORROW INCL. HAUL	0	TON
7	S.P.	STEPPED SLOPE CONSTRUCTION	0	TON
DRAINAGE				
8	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	0	L.F.
SURFACING				
9	5100	CRUSHED SURFACING BASE COURSE	405	TON
EROSION CONTROL AND ROADSIDE PLANTING				
10	6409	TOPSOIL TYPE C	0	ACRE
11	6414	SEEDING, FERTILIZING, AND MULCHING	0	ACRE
12	6479	WATTLE	0	L.F.
TRAFFIC				
13	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
14	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	0	L.F.
15	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
16	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
17	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	0	L.F.
18	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
19	6755	BEAM GUARDRAIL BLOCK	0	EACH
20	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
21	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
22	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	0	EACH
23	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
24	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
25	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
26	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	0	L.F.
27	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	0	EACH
OTHER ITEMS				
28	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
29	7562	MAILBOX SUPPORT TYPE 1	0	EACH
30	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
31	7728	MINOR CHANGE	CALC	CALC
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY: DJC
DRAWN BY: KLC
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO. HSP-0005(479)
COUNTY PROJECT NO: 2185B

HWY 603
SUMMARY OF QUANTITIES

SHEET
HY1
OF
HY2

CALL US TODAY
1-800-424-5555
We're here for you!

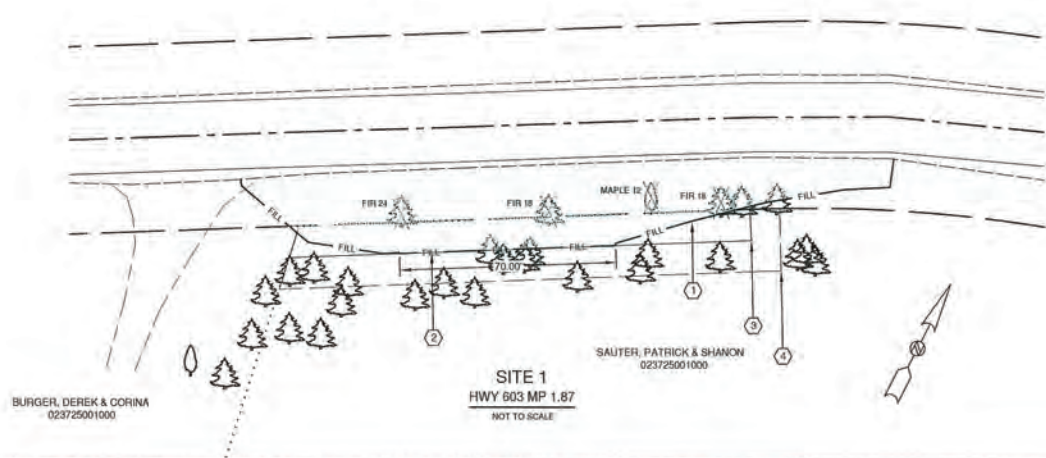
Donald J. Carney, P.E.
Senior Engineer/Designer
Donald J. Carney
Date: 5-27-19



EXPIRES 5/23/19

S:\Engineer_Road\Folders_Countywide Programs\County Safety Program\Highway Safety Improvement Project\SP Phase II\SP-2185B\Drawings\HWY 603\MP 1.87 FILL SLOPE.dwg 4/4/2019 6:18 AM

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



SITE 2 & SITE 3 WERE REMOVED FROM PROJECT

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



Lewis County
Department of Public Works

2025 N. E. KRESKY AVE
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY: DJC
DRAWN BY: KLC
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSP-0005(479)
COUNTY PROJECT NO: 2185B
HWY 603 SITE 1 & 4

SHEET
HY2
OF
HY2

CALL 48 HOURS
BEFORE YOU GO

1 800
424 5555
76 500 1 847

Utah
Underground
Location Center

Donald J. Carney, P.E.
Senior Engineer/Design

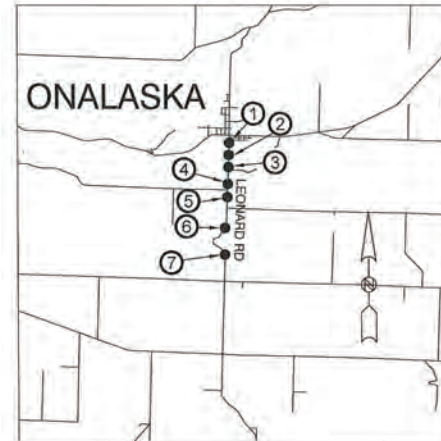
Donald J. Carney
Date: 5-27-19

WORLD J. CARNEY
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 5/23/19

LEONARD ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
3	0170	REMOVING GUARDRAIL	437.5	L.F.
4	0182	REMOVING GUARDRAIL ANCHOR	8	EACH
5	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
6	0408	SELECT BORROW INCL. HAUL	0	TON
7	S.P.	STEPPED SLOPE CONSTRUCTION	0	TON
DRAINAGE				
8	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	0	L.F.
SURFACING				
9	5100	CRUSHED SURFACING BASE COURSE	2942	TON
EROSION CONTROL AND ROADSIDE PLANTING				
10	6409	TOPSOIL TYPE C	0	ACRE
11	6414	SEEDING, FERTILIZING, AND MULCHING	0	ACRE
12	6479	WATTLE	3669	L.F.
TRAFFIC				
13	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	837.5	L.F.
14	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	275	L.F.
15	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
16	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	4	EACH
17	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	0	L.F.
18	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
19	6755	BEAM GUARDRAIL BLOCK	0	EACH
20	6757	BEAM GUARDRAIL TYPE 31	200	L.F.
21	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	2	EACH
22	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	0	EACH
23	6766	BEAM GUARDRAIL ANCHOR TYPE 10	2	EACH
24	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
25	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
26	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	0	L.F.
27	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	173	EACH
OTHER ITEMS				
28	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
29	7562	MAILBOX SUPPORT TYPE 1	0	EACH
30	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
31	7728	MINOR CHANGE	CALC	CALC
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

4/10/2019 8:08 AM

S:\Engineer_Road\Folders\Countywide Programs\Highway Safety Improvement Project\HSIP Phase II\CRIP-2185B\Drawing\SUMMARY OF QUANTITIES.dwg

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLC
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO. HSIP-005(478)
COUNTY PROJECT NO: 2185B
LEONARD ROAD
SUMMARY OF QUANTITIES

SHEET
L1
OF
L6



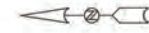
Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19



S:\Engineer\Road\Road\Road\Countywide Programs\County Safety Program\Highway Safety Improvement Project\RSIP Phase II\CRP-21858\Drawing\LEONARD ROAD\LEONARD RD SITE 1&2\3&4_5_6_7.dwg 4/4/2019 6:19 AM

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
310 TON CRUSHED SURFACING BASE COURSE
 - ② WATTLE
520 L.F.

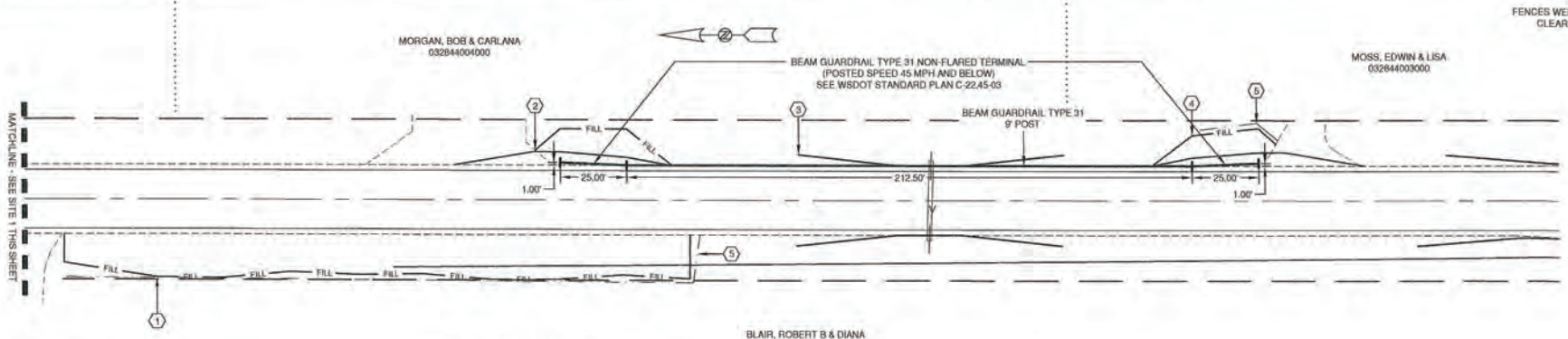
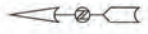


LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

MORGAN, BOB & CARLANA
032844004000

MOSS, EDWIN & LISA
032844003000

- CONSTRUCTION NOTES**
- ③ REMOVE EXISTING BEAM GUARDRAIL AND ANCHORS
100.00 L.F. REMOVING GUARDRAIL
2.00 EACH REMOVING GUARDRAIL ANCHOR
 - ④ CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
60 TON CRUSHED SURFACING BASE COURSE
 - ⑤ WATTLE
287 L.F.



- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
170 TON CRUSHED SURFACING BASE COURSE
 - ② CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
65 TON CRUSHED SURFACING BASE COURSE

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2718

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSP-0005(479)
COUNTY PROJECT NO: 2185B
LEONARD ROAD SITE 1 & 2

SHEET
L2
OF
L6



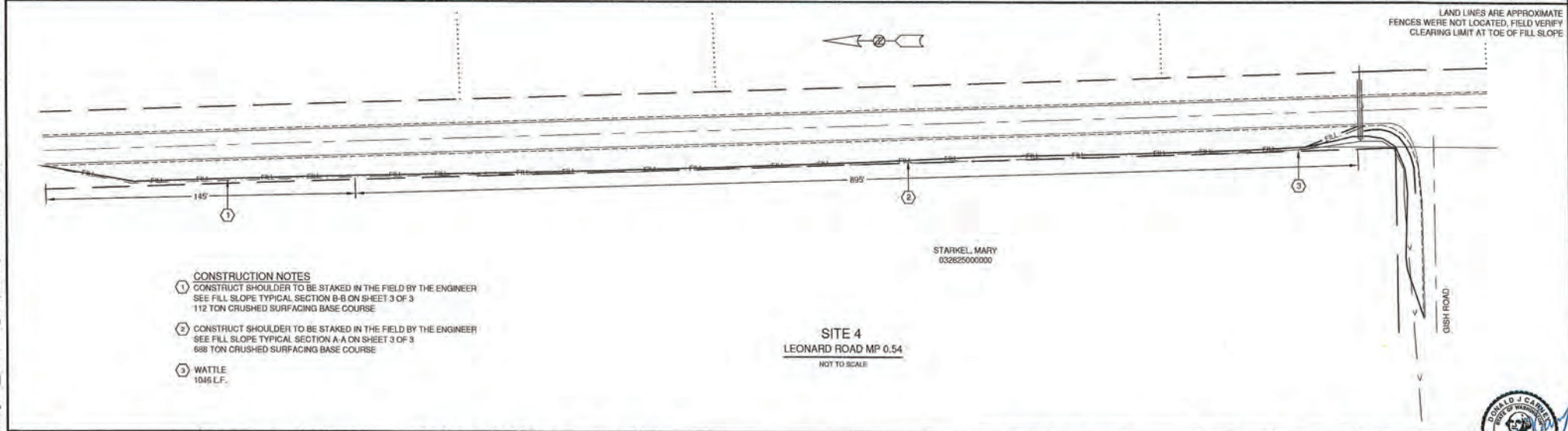
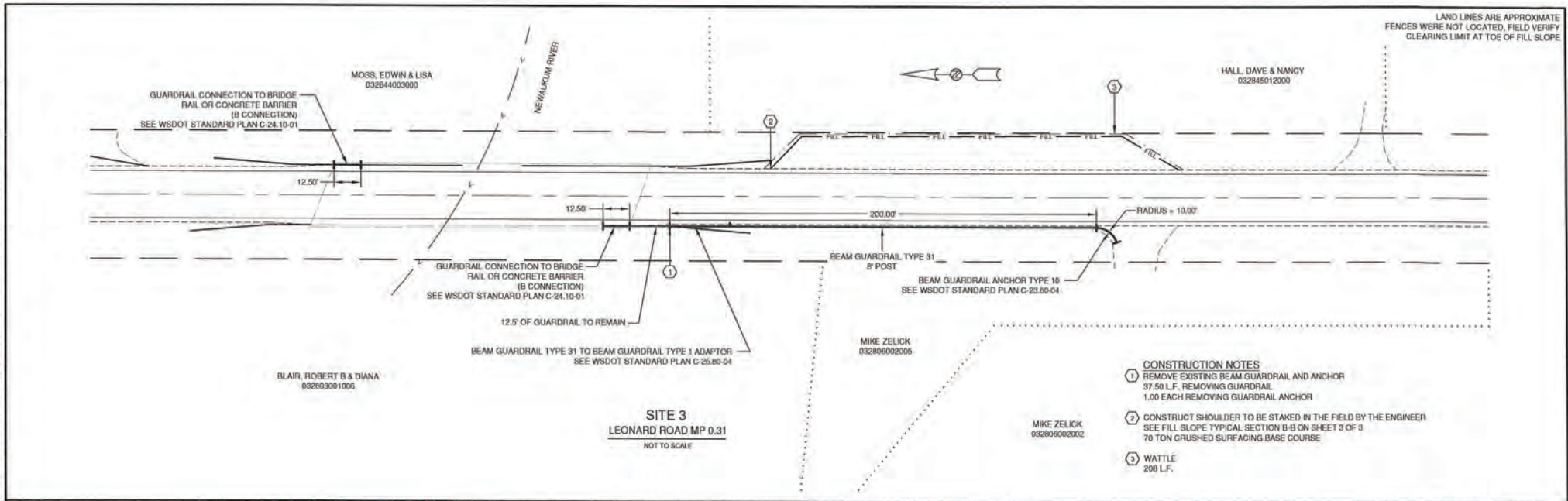
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 5-27-19



EXPIRES 5/23/19

4/1/2019 8:19 AM

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Lewis County
Department of Public Works

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY: DJC	NO.	DATE	REVISION	BY	APP.
DRAWN BY: CGA					
CHECKED BY:					
DATE:					

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-0005(478)
COUNTY PROJECT NO: 21858
LEONARD ROAD SITE 3 & 4

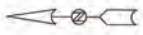
SHEET
L3
OF
L6

CALL US BEFORE YOU DIG
1-800-424-5555
724 9th St. SE
Lacey, WA 98503
Location Center

Donald J. Carney, P.E.
Senior Engineer/Designer
Date: 5-27-19



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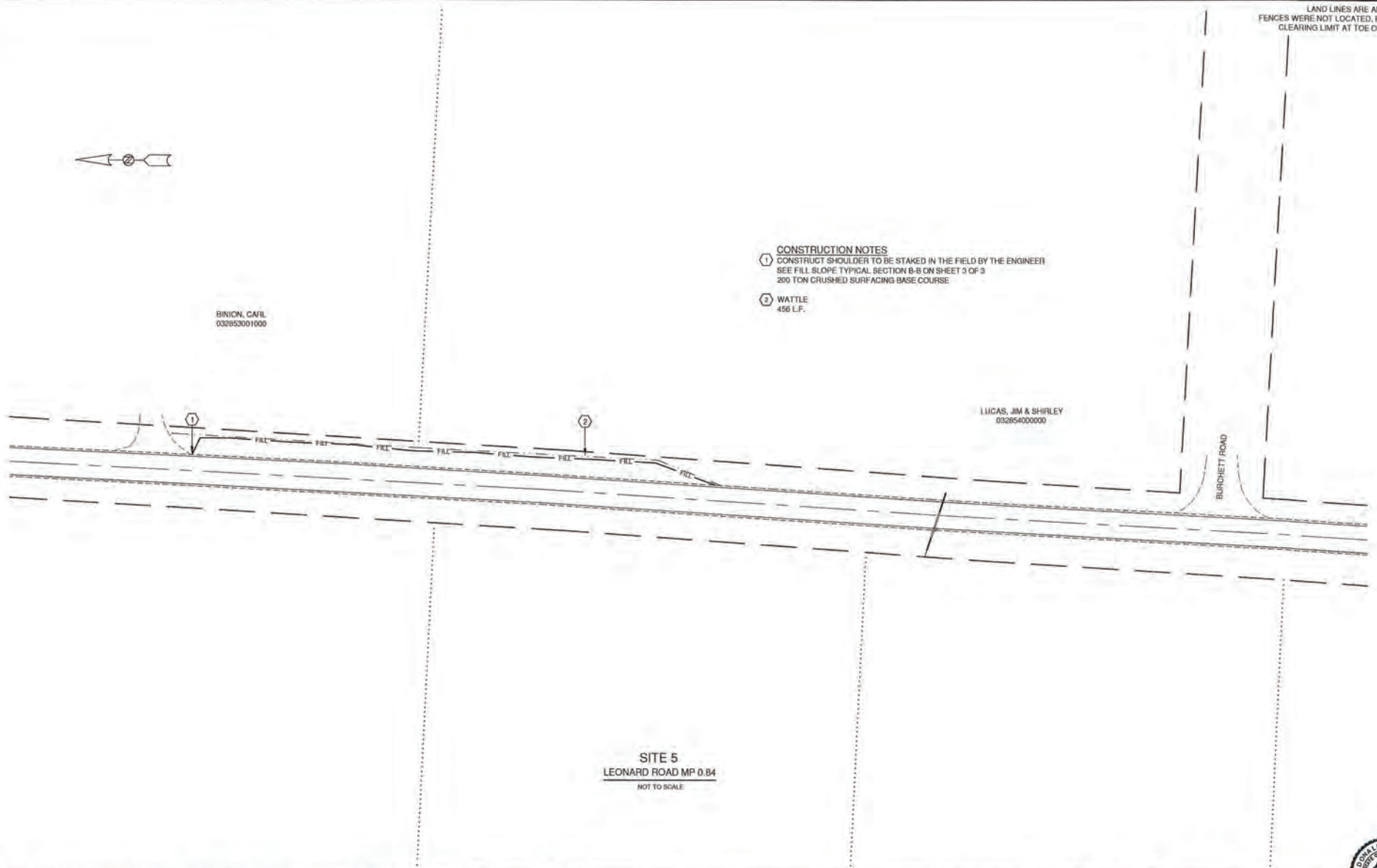


BINION, CARL
032953001000

- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
200 TON CRUSHED SURFACING BASE COURSE
 - ② WATTLE
456 L.F.

LUCAS, JIM & SHIRLEY
03285400000

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



SITE 5
LEONARD ROAD MP 0.84
NOT TO SCALE

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : OGA
CHECKED BY :
DATE :

NO	DATE	REVISION	BY	APP

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO. HSIP-0005(479)
COUNTY PROJECT NO. 2185B
LEONARD ROAD SITE 5

SHEET
L4
OF
L6



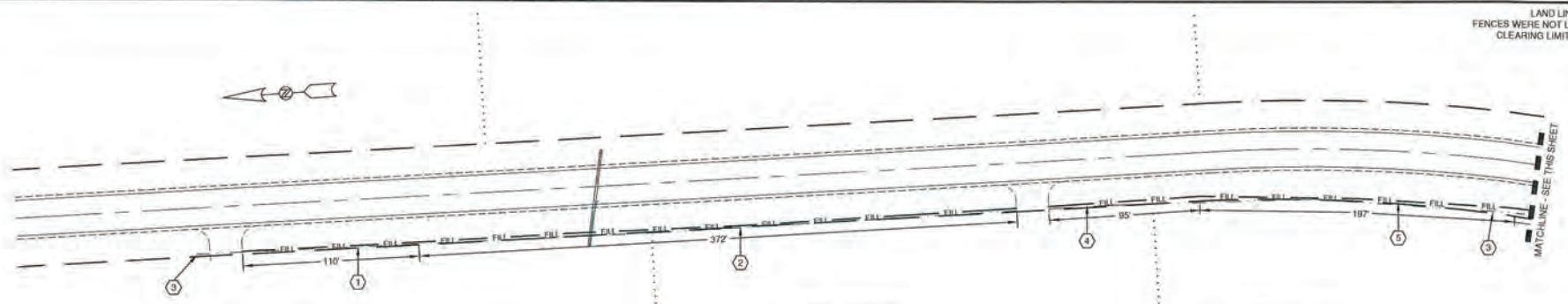
Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19



EXPIRES 5/23/19

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LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A ON SHEET 3 OF 3
145 TON CRUSHED SURFACING BASE COURSE
 - ② CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
485 TON CRUSHED SURFACING BASE COURSE
 - ③ WATTLE
1005 L.F.
 - ④ CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A ON SHEET 3 OF 3
170 TON CRUSHED SURFACING BASE COURSE
 - ⑤ CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
206 TON CRUSHED SURFACING BASE COURSE

- CONSTRUCTION NOTES**
- ⑥ CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
139 TON CRUSHED SURFACING BASE COURSE
 - ⑦ REMOVE EXISTING BEAM GUARDRAIL AND ANCHORS
150.00 L.F. REMOVING BEAM GUARDRAIL
2.00 EACH REMOVING GUARDRAIL ANCHOR
 - ⑧ REMOVE EXISTING BEAM GUARDRAIL AND ANCHOR
END CONSTRUCT BEAM GUARDRAIL TYPE 31
50.00 L.F. REMOVING GUARDRAIL
1.00 EACH REMOVING GUARDRAIL ANCHOR
 - ⑨ CONSTRUCT LANDING AND SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
55 TON CRUSHED SURFACING BASE COURSE



SITE 6
LEONARD ROAD MP1.08
NOT TO SCALE

LYONS, WHYLD & RACHEL
02765973 (1/01)

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE
DUNELAND WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY: DJC
DRAWN BY: CGA
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL AID NO: HSP-0005(479)
COUNTY PROJECT NO: 21858
LEONARD ROAD SITE 6

SHEET
L5
OF
L6



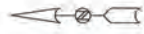
Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 5-27-19



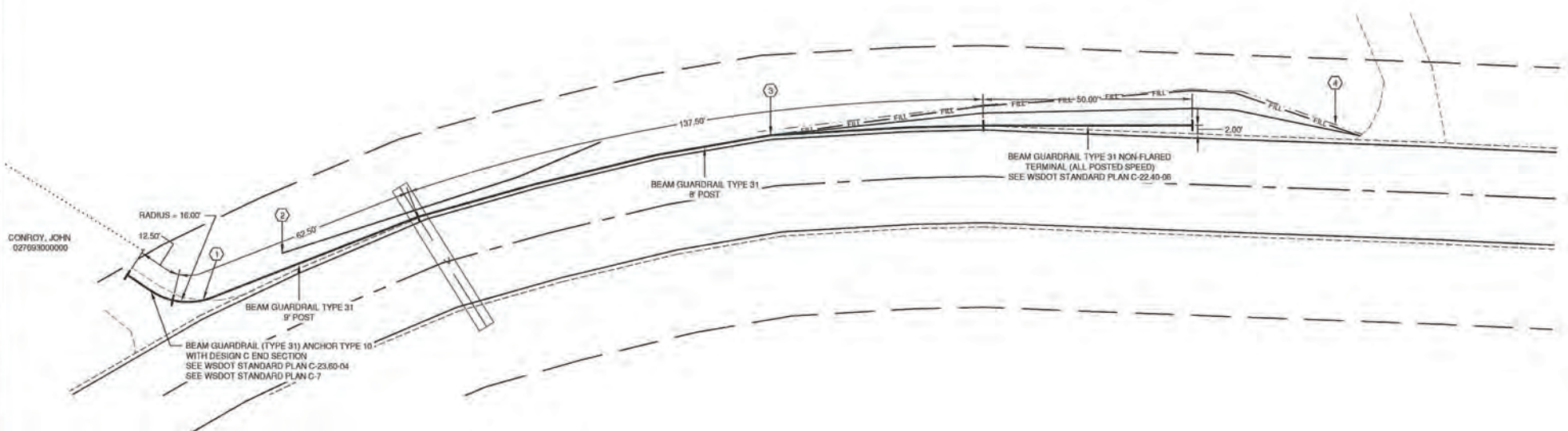
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LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



LONG, ANTHONY & CAROL
027693000000



CONROY, JOHN
027693000000

- CONSTRUCTION NOTES**
- ① REMOVE ASPHALT AS NEEDED FOR POST PLACEMENT
L.S. REMOVAL OF STRUCTURES AND OBSTRUCTIONS
 - ② REMOVE EXISTING GUARDRAIL AND ANCHORS
100.00 L.F. REMOVING GUARDRAIL
2.00 EACH REMOVING GUARDRAIL ANCHOR
 - ③ CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
70 TON CRUSHED SURFACING BASE COURSE
 - ④ WATTLE
147 L.F.

SITE 7
LEONARD ROAD MP 1.78
NOT TO SCALE

Lewis County
Department of Public Works

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
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DATE :

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**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL AID NO: HSP-000S(479)
COUNTY PROJECT NO: 2185B
LEONARD ROAD SITE 7

SHEET
L6
OF
L6



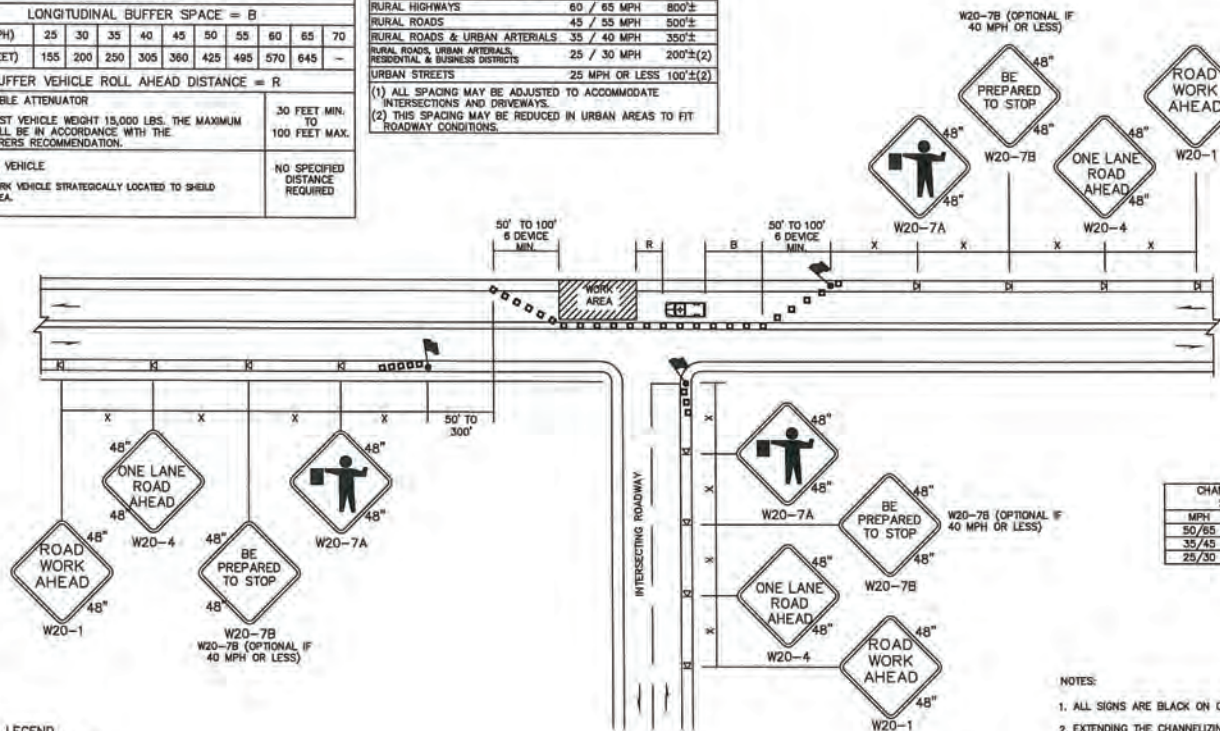
Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 5-27-19



BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FEET)	155	200	250	305	360	425	495	570	645	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR						30 FEET MIN. TO 100 FEET MAX.				
MINIMUM HOIST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.										
PROTECTIVE VEHICLE						NO SPECIFIED DISTANCE REQUIRED				
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.										

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800±
RURAL ROADS	45 / 55 MPH	500±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200±(2)
URBAN STREETS	25 MPH OR LESS	100±(2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50/65	10 TO 20	80
35/45	10 TO 20	60
25/30	10 TO 20	40

ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS

NOT TO SCALE

Lewis County
 3030 N. E. KERRY AVE.
 CHEWALD WA 99558
 PHONE # (509) 740-1188
 FAX # (509) 740-2710
 Department of Public Works

DESIGNED BY :	NO.	DATE	REVISION	BY	APP.
DRAWN BY :					
CHECKED BY :					
DATE :					

HWY SAFETY IMPROVEMENT PROGRAM - PHASE 2

F.A. PROJECT NO: HSP-0005(479)
 COUNTY ROAD PROJECT NO: 21858
 TRAFFIC CONTROL PLAN

SHEET
 1 OF 1

CALL 48 HOURS BEFORE YOU GO
 1-800-424-5555
 "It's the Law"
 Division of Law Enforcement

Donald J. Carney, P.E.
 Senior Engineer/Design
 Date: 4-7-99



APPENDIX G

UTILITY INFORMATION



TEST HOLE DATA SHEET

APS Job # 5106w

Date: 3/25/19

Applied
Professional
Services, Inc.

Overlay layers: 5" - <table border="1"><tr><td>Asphalt</td></tr><tr><td>Soil</td></tr></table>	Asphalt	Soil	Overlay type: <u>Asphalt</u> Concrete Brick
	Asphalt		
Soil			
Test hole#: <u>1</u> Overlay Thickness <u>5"</u> inches.	Utility type: <u>gas</u> (gas, water, etc.)		
Utility Size: <u>4"</u> inches	Utility Material: <u>PE</u> Soil Cond. <u>NATIVE ROCKY</u>		
Pipe Direction (circle one) E & W N & S <u>SW & NE</u> SE & NW	Top of utility from grade: <u>40"</u> inches. Bottom of utility from grade: <u>44"</u> inches. Width of Structure if necessary: <u>N/A</u> inches.		

Additional utilities found in same Test-Hole:	E & W	N & S	SW & NE	SE & NW
Test hole# _____				
Utility Type: _____ Top: _____ Bot: _____	Size: _____	Utility Material: _____		

Utility Configuration: <u>Facing NE</u> <u>(Black TRACE WIRE)</u> <u>4" PE gas</u> <u>(Black with yellow STRIPE)</u>									
Pipe Condition: Check one with X									
<table border="1"> <tr><td>1) Poor-broken/cracks/damage</td><td></td></tr> <tr><td>2) Fair-Brittle pipe/pitted/rusty</td><td></td></tr> <tr><td>3) Good-well defined/no pits</td><td>X</td></tr> <tr><td>4) Great-looks brand new</td><td></td></tr> </table>		1) Poor-broken/cracks/damage		2) Fair-Brittle pipe/pitted/rusty		3) Good-well defined/no pits	X	4) Great-looks brand new	
1) Poor-broken/cracks/damage									
2) Fair-Brittle pipe/pitted/rusty									
3) Good-well defined/no pits	X								
4) Great-looks brand new									
Notes: <u>DASHED CL OF Road: 22' E of Dashed CL</u> <u>PHONE POLE: 62' N of PHONE POLE</u> <u>GAS VALVE: 25' S of gas valve</u> <u>Pothole located on Asphalt shoulder</u>									
Vacuum Crew: Lead: <u>CHRIS</u> Helper: <u>Aaron</u>									

Sketch to include street name(s), North arrow, distance to (3) permanent markers & distance to fog line or centerline.

Be sure to include a description of each permanent marker

Any known building address, or side street address in the vicinity should be included

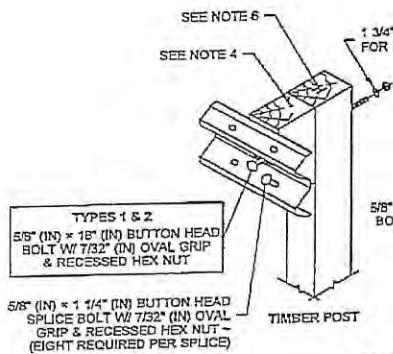
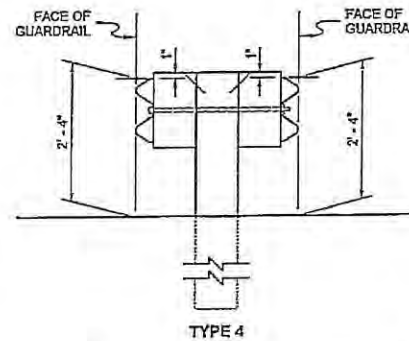
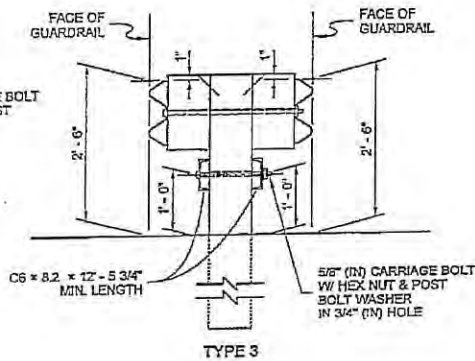
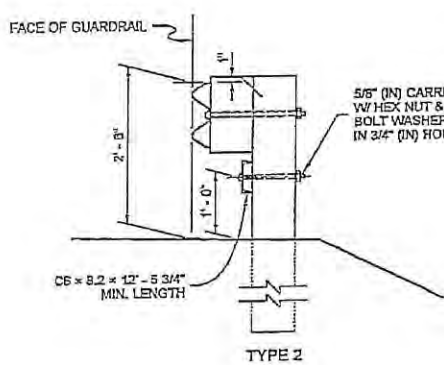
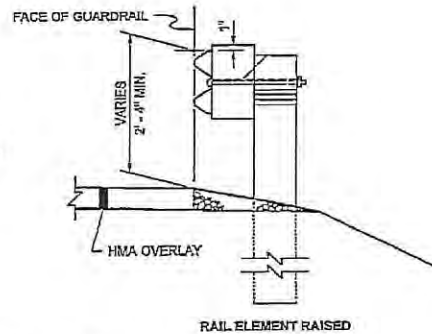
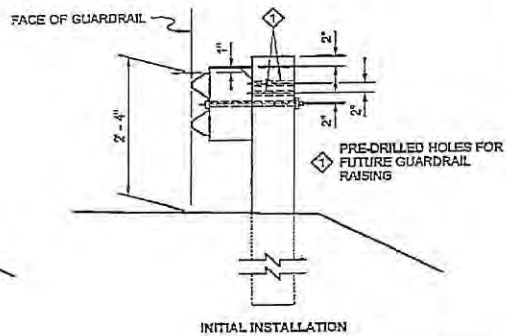
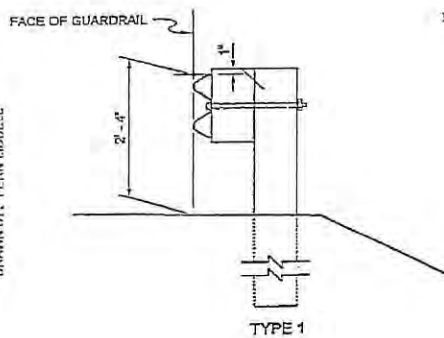
APPENDIX H

STANDARD PLANS

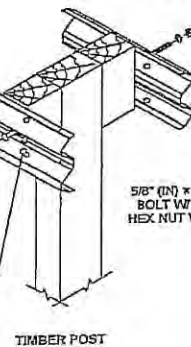
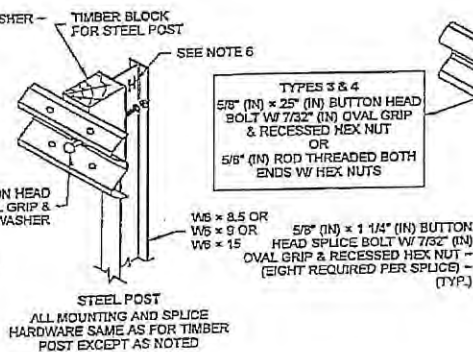
TRAFFIC CONTROL PLAN

CONTRACT PLANS

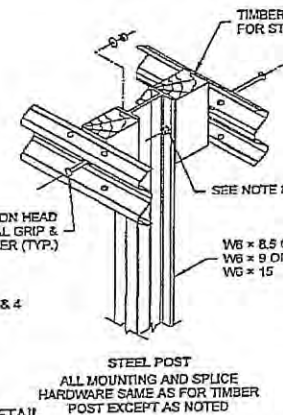
DRAWN BY: FERN LIDDELL



ASSEMBLY DETAIL
TYPE 1 AND 2



ASSEMBLY DETAIL
TYPE 3 AND 4



NOTES

- When required by the Contract, a Snow Load Post Washer shall be used on the backside of the post (in lieu of the 1 3/4" (in) Post Bolt Washer) and a Snow Load Rail Washer shall be placed on the face side of Beam Guardrail Types 1 and 2. Snow Load Rail Washers shall not be installed on terminals.
- Rail Washers, also called "Snow Load Rail Washers", are not required on new installation, except as called for in Note 1. Unnecessary Rail washers need not be removed from existing installations, except those on posts 2 through 8 of a BCT installation shall be removed.
- Beam Guardrail post spacing for Types 1 through 4 shall be 6' - 3" on centers.
- Timber blocks shall be toe-nailed to the post with a 16d galvanized nail to prevent block rotation.
- For post and block details, see Standard Plan C-1b.
- When "Beam Guardrail Type - ___ Ft. Long Post" is specified in the Contract, the post length shall be stamped with numbers, 1 1/2" (in) min. high and 3/4" (in) wide at the location where the letter "H" is shown in the ASSEMBLY DETAIL. For wood post applications, the letter shall be stamped to a minimum depth of 1/4" (in). For steel post applications, the letter shall be legible after the post is galvanized. After post installation, it shall be the Contractor's responsibility to ensure the stamped numbers remain visible.
- Existing posts shall not be raised. Replace posts as necessary to achieve required guardrail height.
- Holes shall be located on approaching traffic side of web.



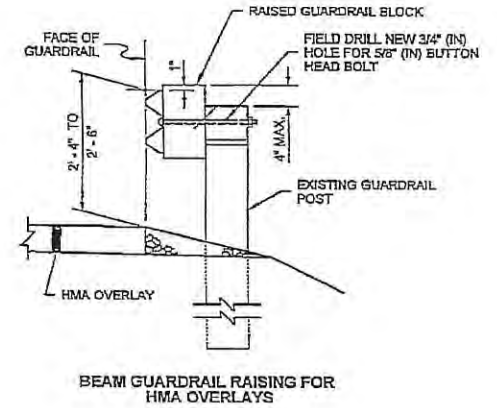
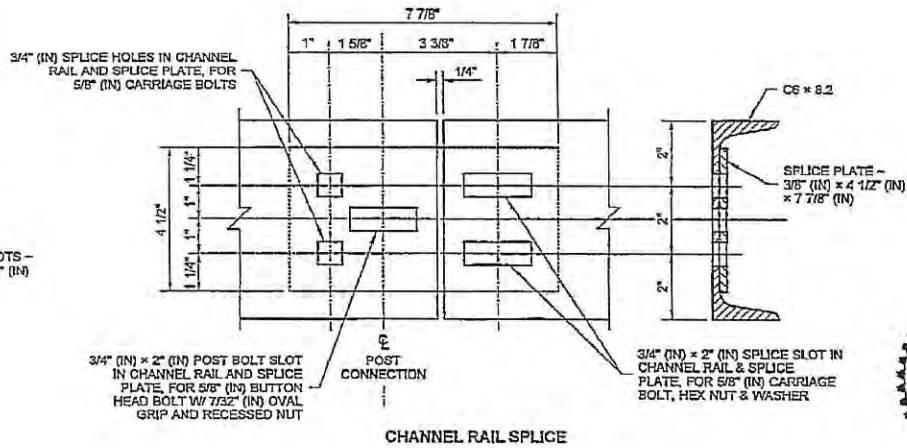
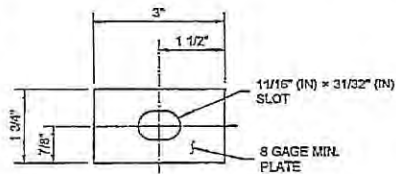
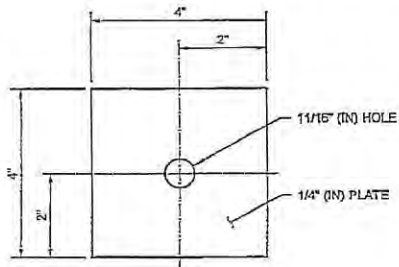
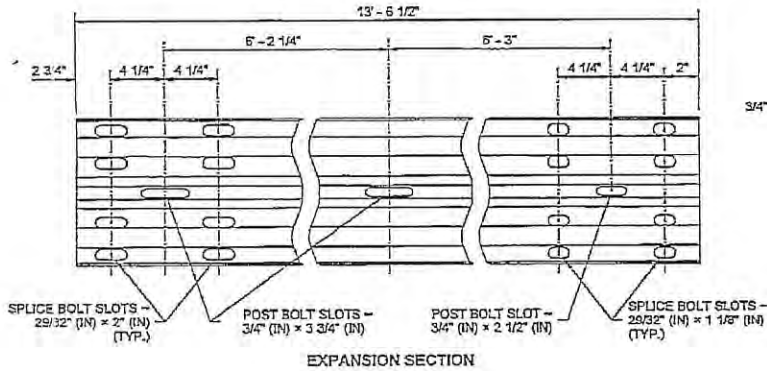
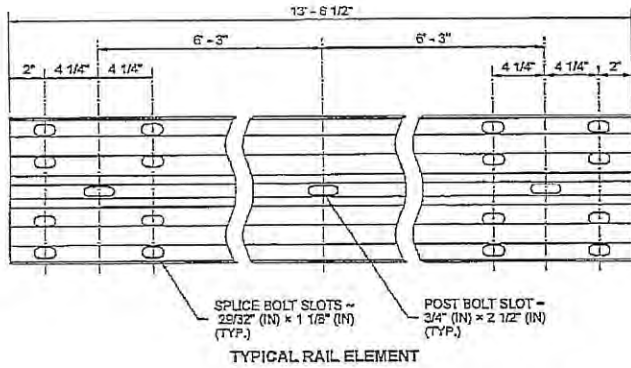
Jeff Petterson
Petterson, Jeff (HQ Design)
June 30 2016 7:19 AM

**BEAM GUARDRAIL
TYPES 1 - 4 (W-BEAM)
STANDARD PLAN C-1**

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
Compton, Jeff
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

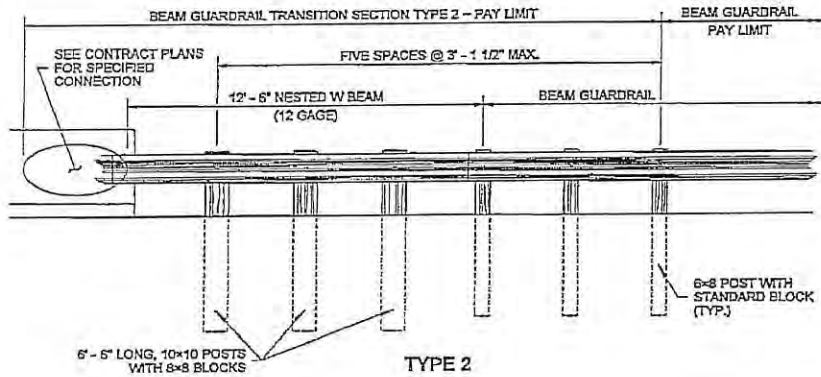
DRAWN BY: FERN LIDDELL



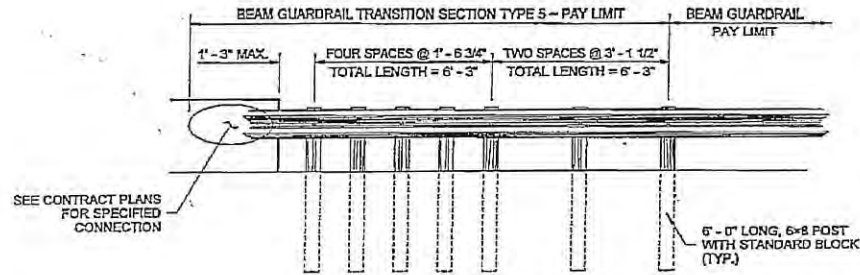
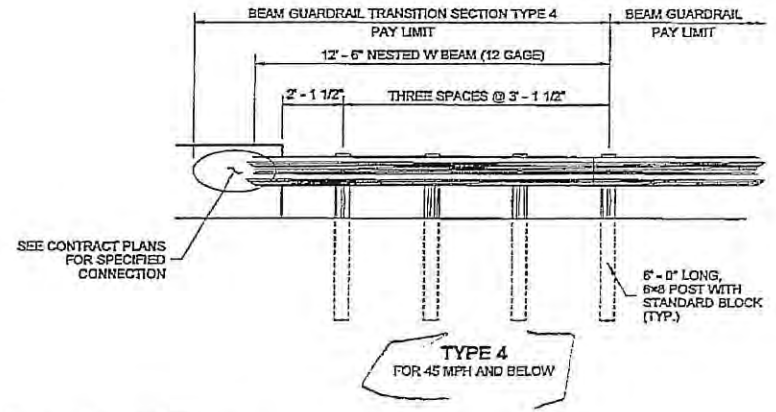
Jeff Petterson
 BEAM GUARDRAIL
 TYPES 1 - 4 (W-BEAM)
 STANDARD PLAN C-1
 SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
 Corcoran Jeff
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

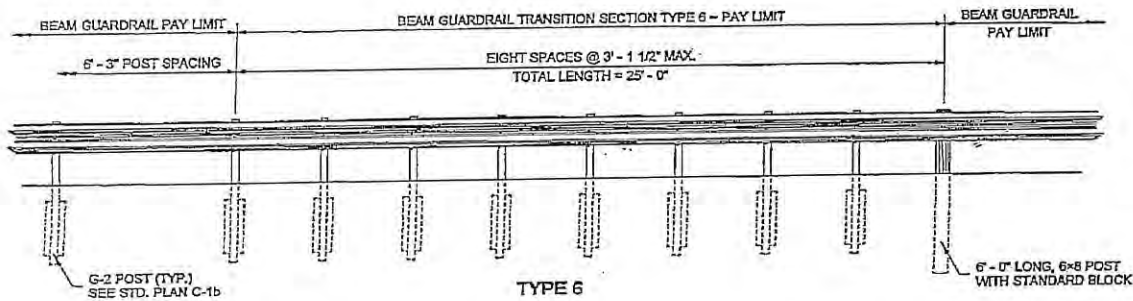
DRAWN BY: MARK SUJKA



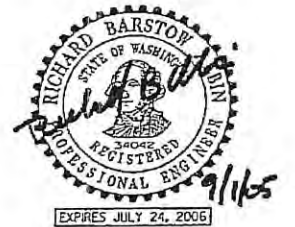
TYPE 2



TYPE 5



TYPE 6



**BEAM GUARDRAIL
TRANSITION SECTIONS
STANDARD PLAN C-3a**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

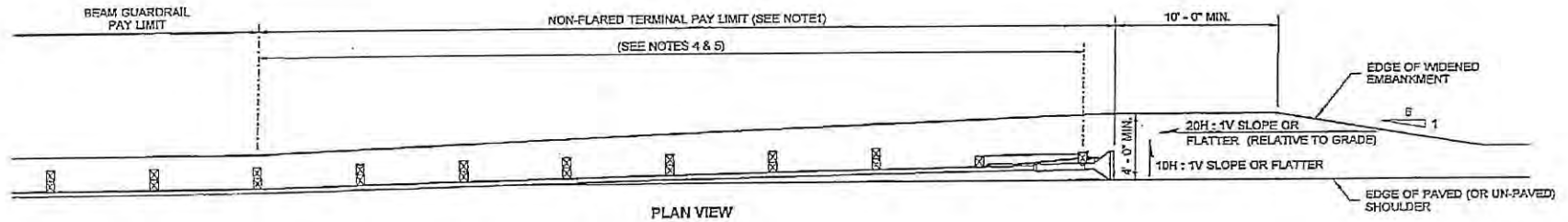
Harold Peterson 10-4-05

STATE DESIGN ENGINEER DATE

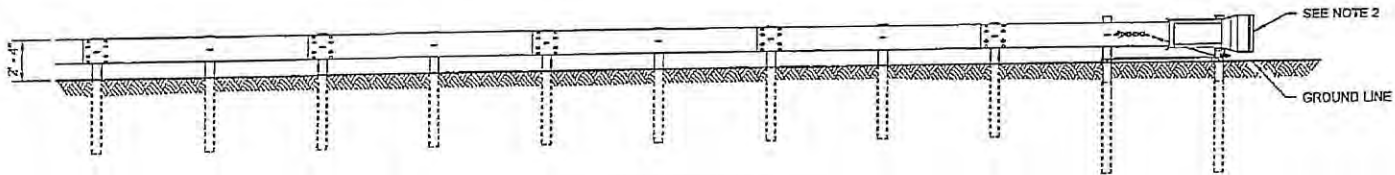
Washington State Department of Transportation

NOTES

1. An SKT-350 as manufactured by Road Systems, Inc. shall be installed according to manufacturer's recommendations. When a TL2 terminal is specified in the Contract an SKT-TL2 as manufactured by Road Systems, Inc. shall be installed according to the manufacturer's recommendations.
2. A reflectorized object marker shall be installed according to manufacturer's recommendations.
3. When snow load post washers and snow load rail washers are required by the Contract, the snow load rail washers must not be installed within the terminal limits.
4. Terminal shall be installed at a taper, ensuring that end piece is entirely off the shoulder.
5. Length for SKT-350 is 50' (ft). Length for SKT-TL2 is 25' (ft).



PLAN VIEW



ELEVATION VIEW



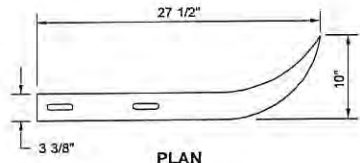
Jeff Petterson
 Petterson, Jeff (HQ Design)
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**BEAM GUARDRAIL
 NON-FLARED TERMINAL
 STANDARD PLAN C-4e**

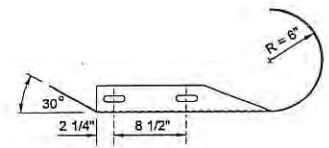
SHEET 1 OF 1 SHEET

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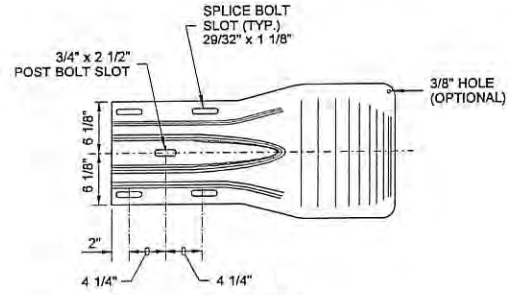
DRAWN BY: FERN LIDDELL



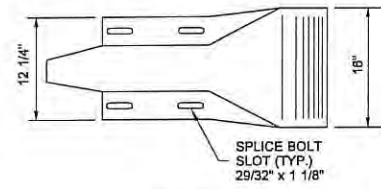
PLAN



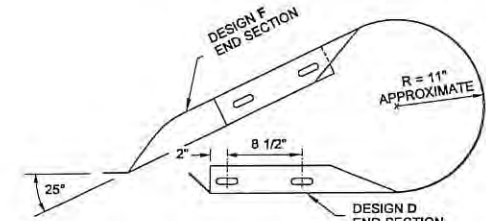
PLAN



ELEVATION
DESIGN A



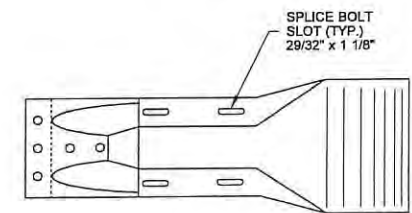
ELEVATION
DESIGN C



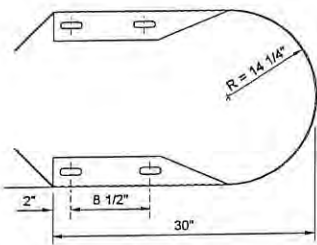
PLAN

NOTES

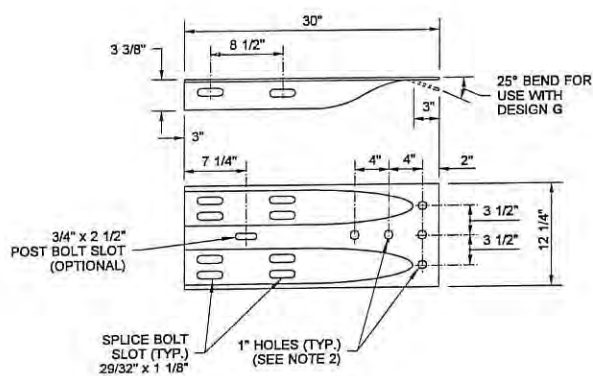
1. End Section Design G shall be used except where noted on the plans or contract.
2. Attach guardrail to bridge rail or concrete barrier with 7/8" diameter bolts (five minimum) **Standard Spec. 9-06.5(4)**, with thin slab ferrule inserts or resin bonded anchors. See the Contract Plans.
3. A single piece having similar dimensional shape to Design G and mating with the W-beam guardrail is an alternate.
4. In cases where Design "F" end section is lapped on the outside of the guardrail, a galvanized 1" ID, 2" OD, 0.134" thick, narrow Type A Plain Washer or a anchor rail washer shall be placed under the splice bolt heads.



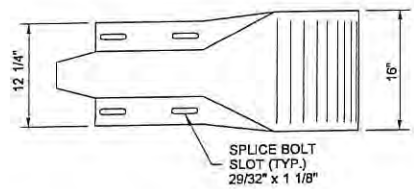
ELEVATION
DESIGN G
(SEE NOTE 3)



PLAN



ELEVATION
DESIGN F
(SEE NOTE 4)



ELEVATION
DESIGN D



NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT UNLESS IT IS ELECTRONICALLY SIGNED BY THE ORIGINAL ENGINEER OR FILED AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

**BEAM GUARDRAIL
END SECTIONS
STANDARD PLAN C-7**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

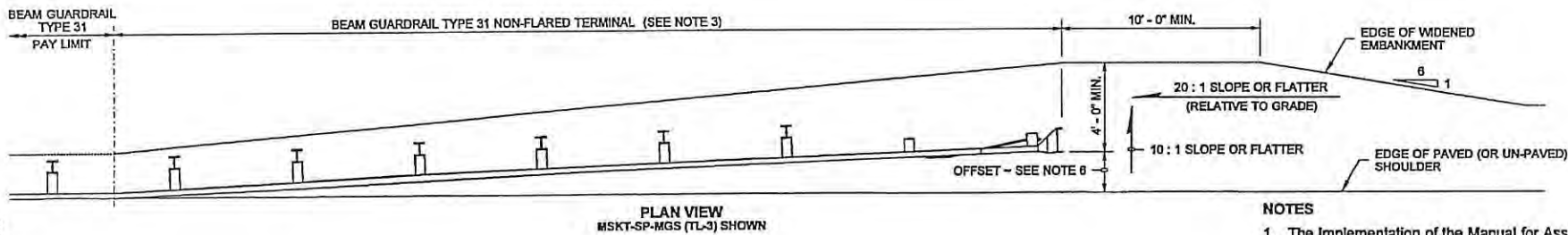
Pasco Bakotich III 06-16-11

STATE DESIGN ENGINEER DATE

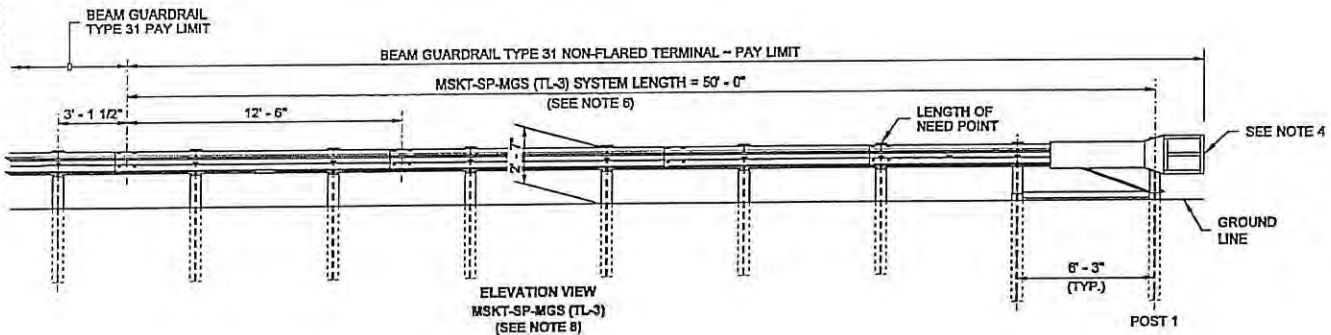


Washington State Department of Transportation

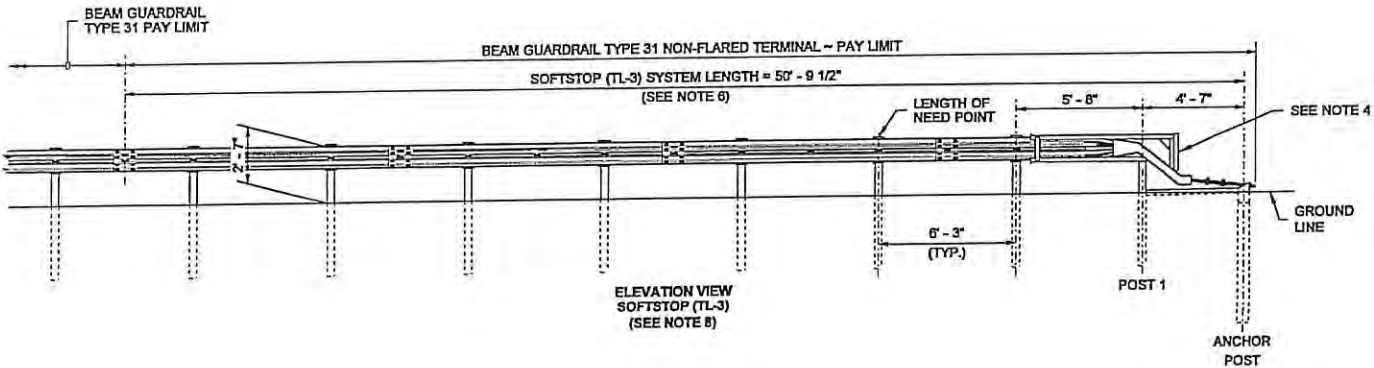
DRAWN BY: BILL BERENS



PLAN VIEW
MSKT-SP-MGS (TL-3) SHOWN



ELEVATION VIEW
MSKT-SP-MGS (TL-3)
(SEE NOTE 8)



ELEVATION VIEW
SOFTSTOP (TL-3)
(SEE NOTE 8)

NOTES

1. The Implementation of the Manual for Assessment of Safety Hardware (MASH) criteria may result in the acceptance of guardrail terminal systems currently not shown on this plan. Non-Flared terminals shall be selected from the WSDOT Qualified Products List (QPL) or approved through the WSDOT Request for Approval of Materials (RAM) process.
2. This terminal is MASH compliant at Test Level Three (TL-3) and may be used for all posted speeds.
3. An MSKT-SP-MGS (TL-3) as manufactured by Road Systems, Inc. or SOFTSTOP (TL-3) as manufactured by Trinity Highway Products, LLC shall be installed according to manufacturer's recommendations.
4. A reflectorized object marker shall be installed according to manufacturer's recommendations.
5. When snow load post washers and snow load rail washers are required by the Contract, the snow load rail washers shall not be installed within the terminal limits.
6. Terminal shall be installed at a widening, ensuring the end piece is entirely off the shoulder. While this terminal does not require an offset at the end, a taper is recommended. For the MSKT-SP-MGS (TL-3), a maximum taper of 25 : 1 or flatter over the length of the terminal is allowed with a maximum offset of 24" (in) over 50' (ft).

For the SOFTSTOP (TL-3) a maximum taper of 25.4 : 1 or flatter is allowed over the system length of 50' - 9 1/2" with a maximum offset of 24" (in) at the anchor post.

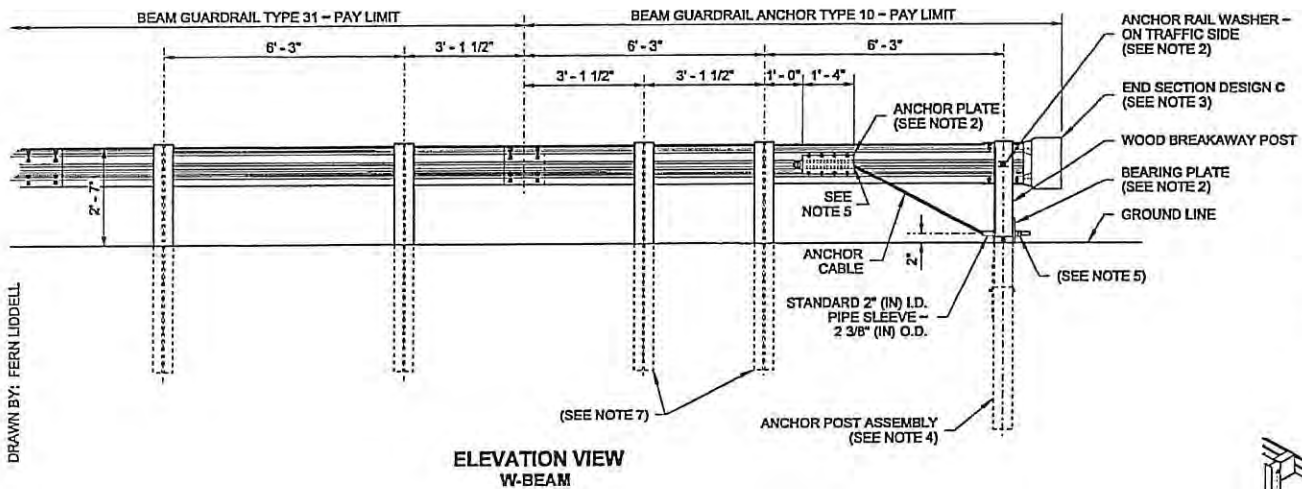
7. For terminal details, see WSDOT approved manufacturer's drawings.
8. These terminals are supplied with steel posts only. They can be used with beam guardrail Type 31 runs composed of steel or wood guardrail posts.



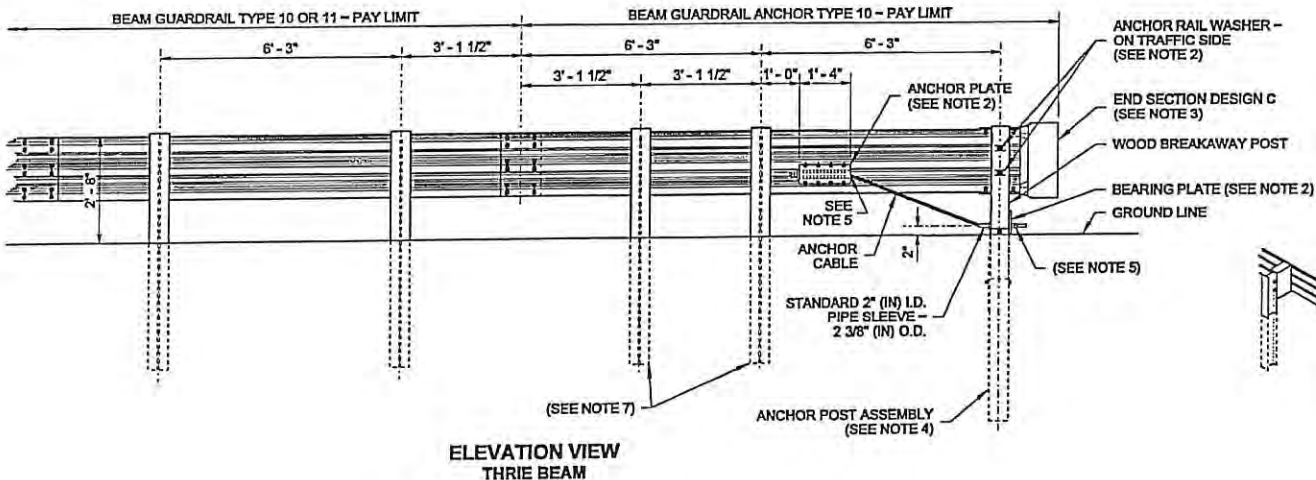
Jeff Peterson
Peterson, Jeff (HQ Design)
Jul 6 2017 3:13 PM
**BEAM GUARDRAIL TYPE 31
NON-FLARED TERMINAL
(ALL POSTED SPEEDS)
STANDARD PLAN C-22.40-06**
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 21 2017 8:26 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: FERN LIDDELL



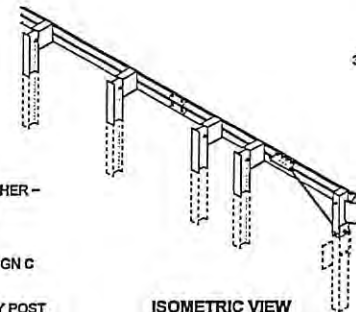
**ELEVATION VIEW
W-BEAM**



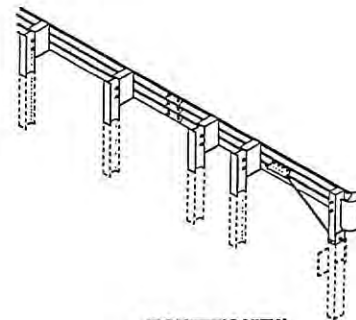
**ELEVATION VIEW
THREE BEAM**

NOTES

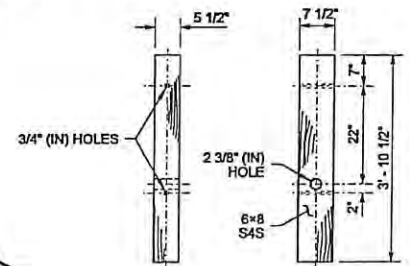
1. For use on the end of guardrail runs when a crashworthy terminal is not required.
2. For additional details not shown, see Sheet 2 of this Plan.
3. For end section details, see Standard Plans C-7 and C-7a.
4. Use details for Wood Breakaway post shown on this plan and components shown on Standard Plan C-1b.
5. Fasten the Anchor Cable using two 1" (in) nuts and washer, at both ends of cable. Outside nut shall be torqued against inside nut a minimum of 100 ft.-lbs.
6. Wood blocks shown. Blocks of alternate material may be used. See Standard Specification, Section 9-16.3(2).
7. Posts shall match those of the connecting run: timber or steel.
8. Anchor plate may be constructed from 1/4" (in) plates welded to equal strength and dimensions as shown.
9. Eight 5/8" (in) x 1/2" (in) machine bolts with hex nut and washer. Place washer on face side of rail.



ISOMETRIC VIEW



ISOMETRIC VIEW



**WOOD BREAKAWAY
POST DETAIL**



Jeff Peterson
Peterson, Jeff (110 Design)
Jul 6 2017 3:15 PM
**BEAM GUARDRAIL (TYPE 31)
ANCHOR TYPE 10**

STANDARD PLAN C-23.60-04

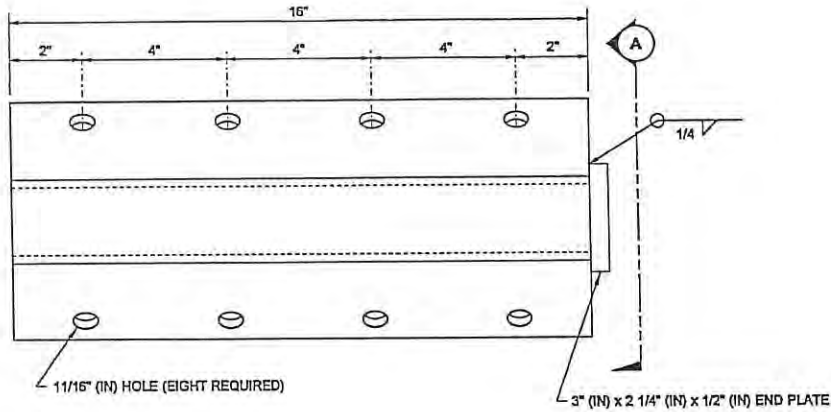
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

Jeff Peterson
Peterson, Jeff
Jul 21 2017 8:25 AM

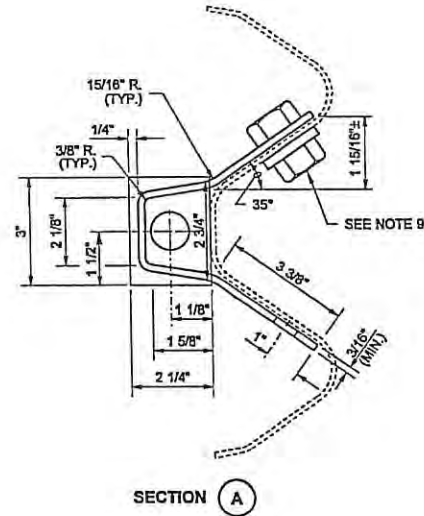
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: FERN LIDDELL

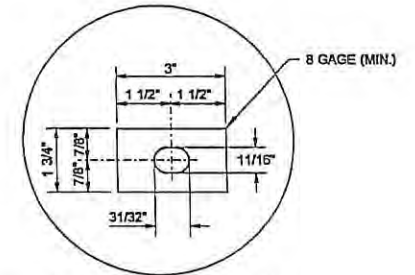


ELEVATION

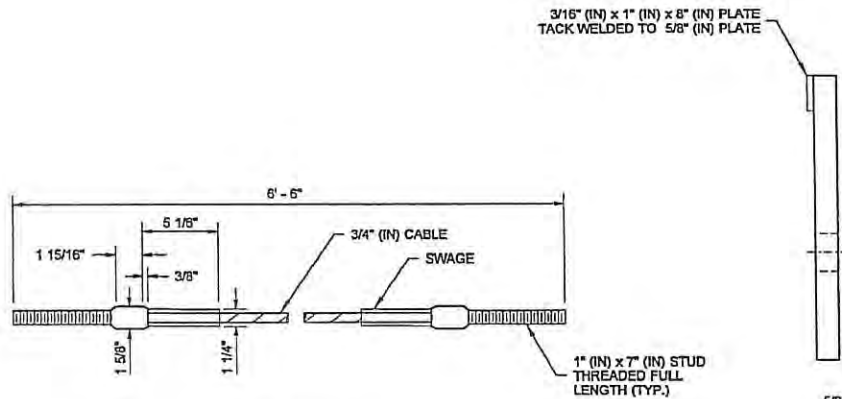
ANCHOR PLATE
(SEE NOTE 8)



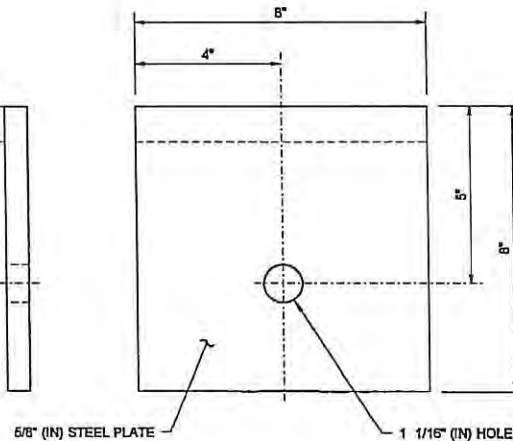
SECTION A



ANCHOR RAIL WASHER



ANCHOR CABLE



BEARING PLATE



Peterson, Jeff (HQ Design)
 Jul 6 2017 3:15 PM
 BEAM GUARDRAIL (TYPE 31)
 ANCHOR TYPE 10
 STANDARD PLAN C-23.60-04

SHEET 2 OF 2 SHEETS

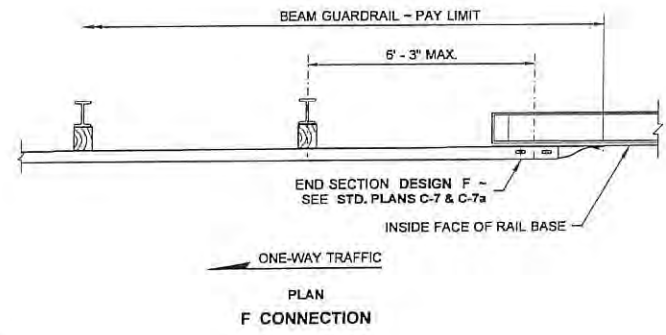
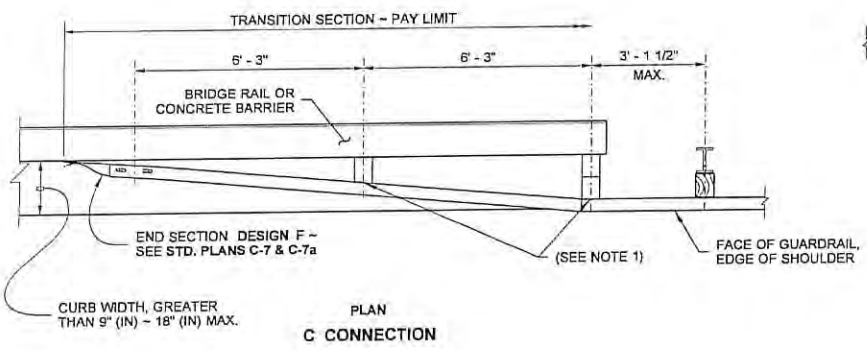
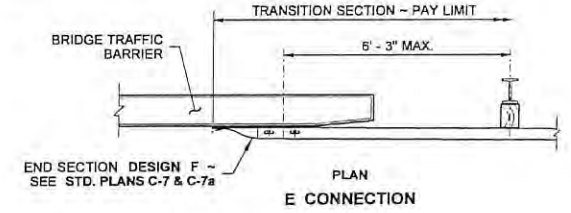
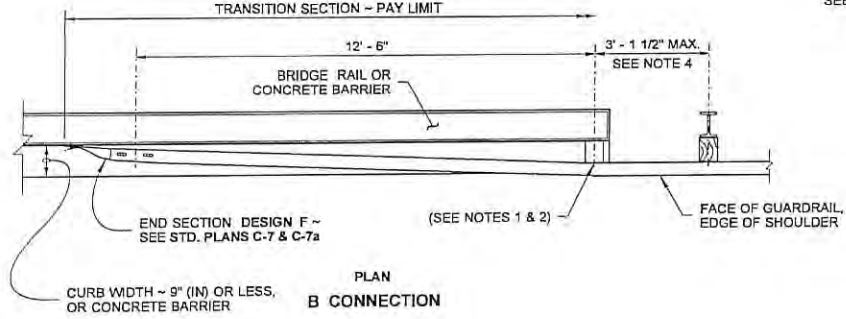
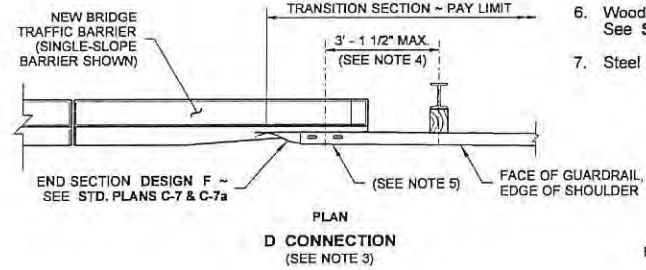
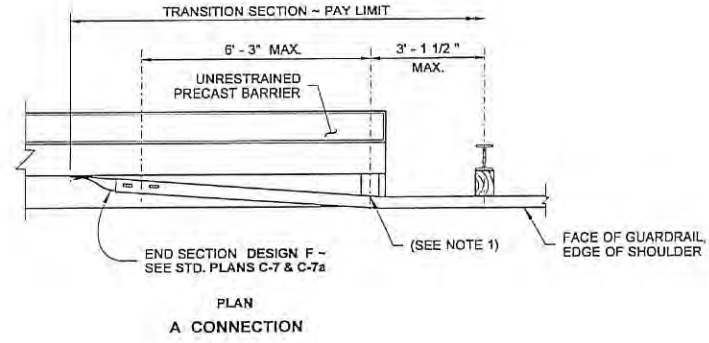
APPROVED FOR PUBLICATION

Jeff Peterson
 Peterson, Jeff
 Jul 21 2017 8:25 AM

STATE DESIGN ENGINEER

Washington State Department of Transportation

DRAWN BY: FERN LIDDELL



NOTES

1. Attach guardrail to bridge rail or concrete barrier with 7/8" (in) diameter bolts in accordance with **Standard Spec. 9-06.5(4)**, with thin slab ferrule inserts or resin-bonded anchors. See Contract Plans.
2. If the last guardrail post is 3" (in) or less from the end of the bridge barrier, this attachment and blockout is not necessary.
3. This case is also applicable for F-shape and vertical faces with no curbs.
4. When B connection is used with Type 1A Transition, the maximum spacing between bolts is 6' - 3".
5. See Bridge Plans for additional connection details.
6. Wood blocks shown. Blocks of alternate material may be used. See **Standard Specification 9-16.3 (2)**.
7. Steel posts shown. Timber posts may be used.



Harry, Ed
May 2 2014 2:33 PM

GUARDRAIL CONNECTION TO BRIDGE RAIL OR CONCRETE BARRIER STANDARD PLAN C-24.10-01

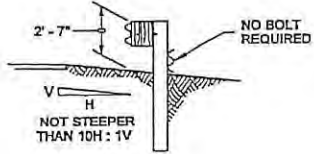
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
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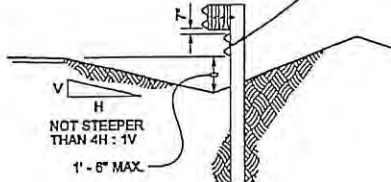
Russell B. Bakotich
STATE DESIGN ENGINEER

Washington State Department of Transportation

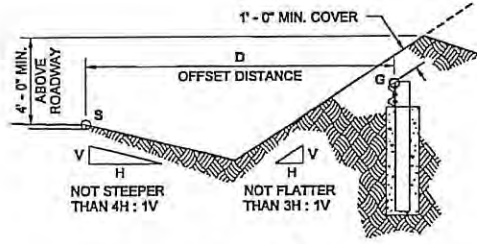
FOR TIMBER POST, 5/8" (IN) x 10" (IN) LONG BUTTON HEAD BOLT WITH 7/32" (IN) OVAL GRIP, CUT WASHER, AND HEX NUT. -
FOR STEEL POST, 5/8" (IN) x 2" (IN) LONG BUTTON HEAD BOLT WITH 7/32" (IN) OVAL GRIP, CUT WASHER, AND HEX NUT



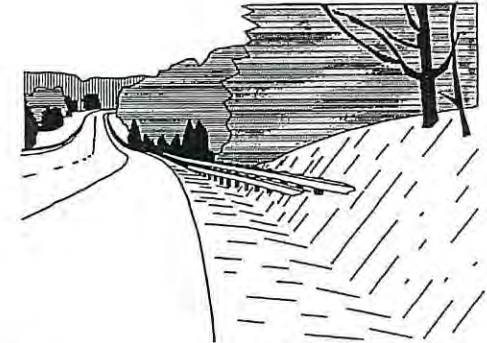
SECTION A



SECTION B



SECTION C (SEE NOTE 3)



PERSPECTIVE

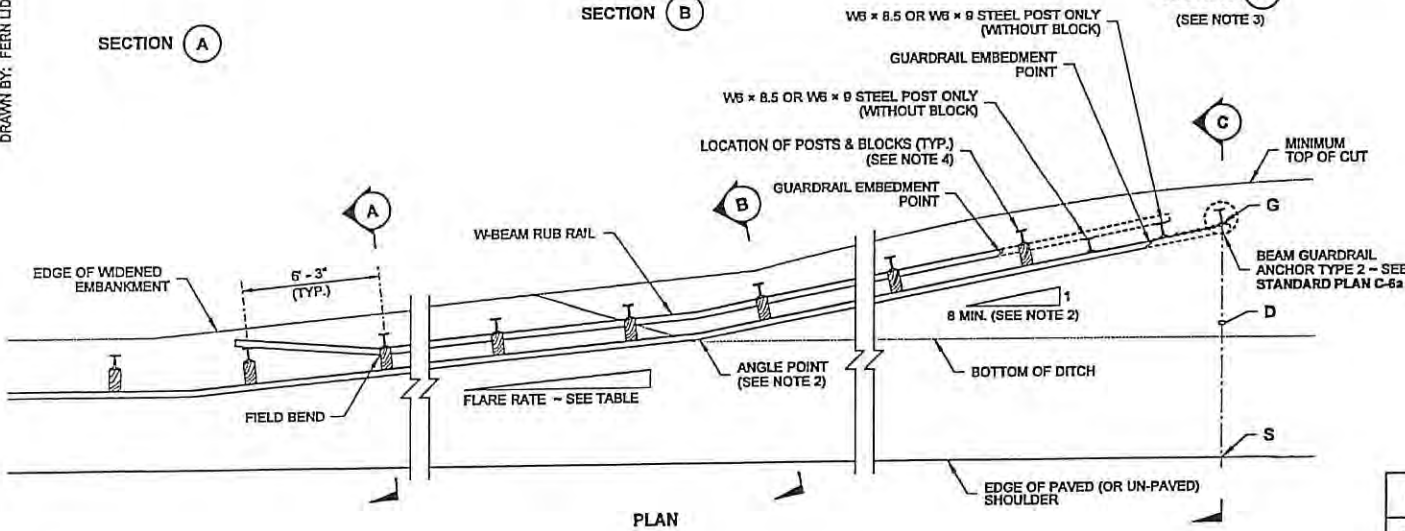
NOTES

1. Posts installed on shoulder slopes steeper than 10H : 1V shall be 8' (ft) long.
2. The flare rate of the guardrail may be increased after crossing the ditch bottom to shorten the length of the terminal.
3. Determine the height of the W-Beam at the Anchor (G) by first calculating the perpendicular offset distance (D) from the edge of shoulder (S) to the Anchor (on station). Multiply that distance by 0.1, then subtract the product from the elevation of the same point (S) on the edge of shoulder used to obtain the offset distance (at the same station). Add Beam Guardrail design height (31" (in)) to that remainder for a sum that equals the elevation of the top of the W-Beam at the Anchor.

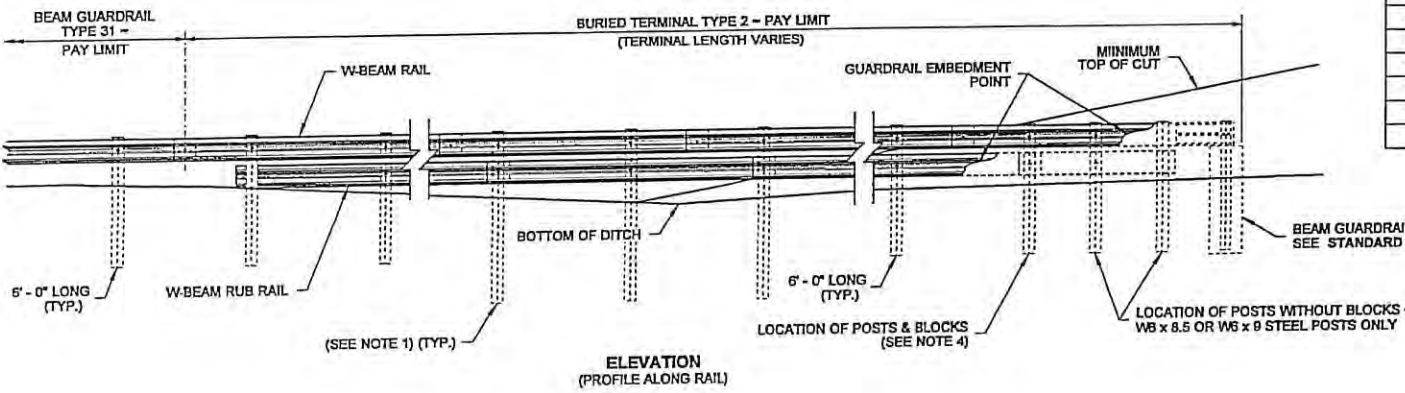
Refer to SECTION "C":

$$\text{Elevation } G = (\text{Elevation } S - D \times (0.1)) + 31$$

4. Timber or steel post. Steel post shown.



PLAN



ELEVATION (PROFILE ALONG RAIL)

FLARE RATE TABLE	
RATE (FT)	POSTED SPEED (MPH)
15 : 1	70
14 : 1	60
12 : 1	55
11 : 1	50
10 : 1	45
9 : 1	40 OR LESS



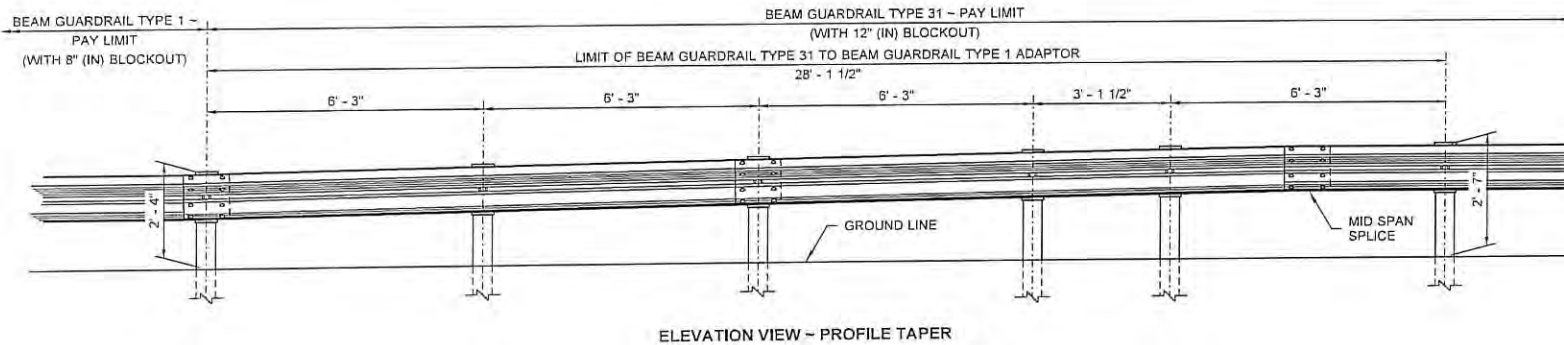
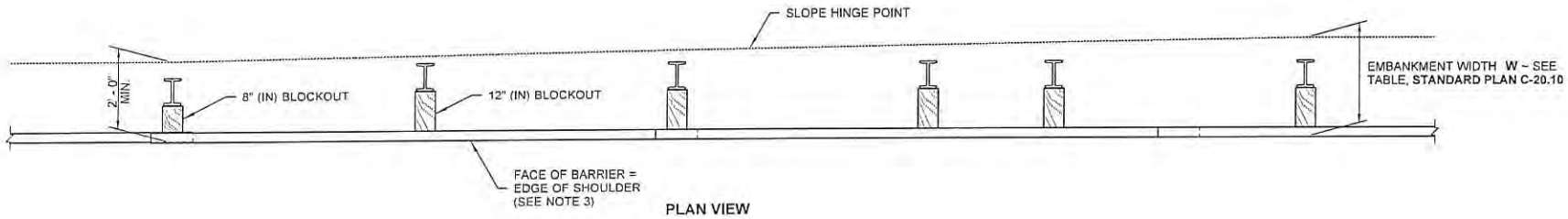
Jeff Peterson
BEAM GUARDRAIL TYPE 31 ~ BURIED TERMINAL TYPE 2
STANDARD PLAN C-22.16-06

SHEET 1 OF 1 SHEET
 APPROVED FOR PUBLICATION
 Peterson, Jeff
 Jul 21 2017 8 28 AM
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

DRAWN BY: FEERN LUDELL

NOTES

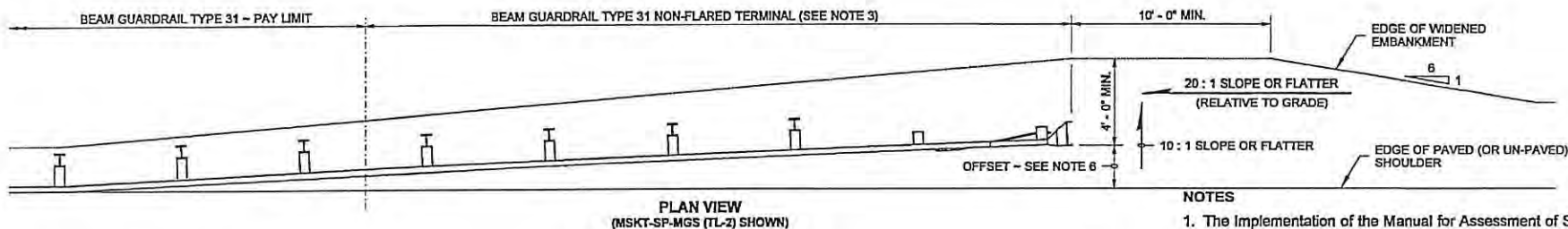
1. Refer to **Standard Plans C-1** and **C-1b** for component details for Beam Guardrail Type 1 (not shown on this plan).
2. Refer to **Standard Plan C-20.10** for component details for Beam Guardrail Type 31 (not shown on this plan).
3. Accomodating the wider blackout (12" (in) width) used with Type 31 guardrail will require widening the embankment by 4" (in) or narrowing the shoulder by 4" (in).
4. Wood blocks shown. Blocks of alternate material may be used. See **Standard Specification 9-16.3(2)**.
5. All posts for any standard barrier run shall be of the same type: timber or steel.



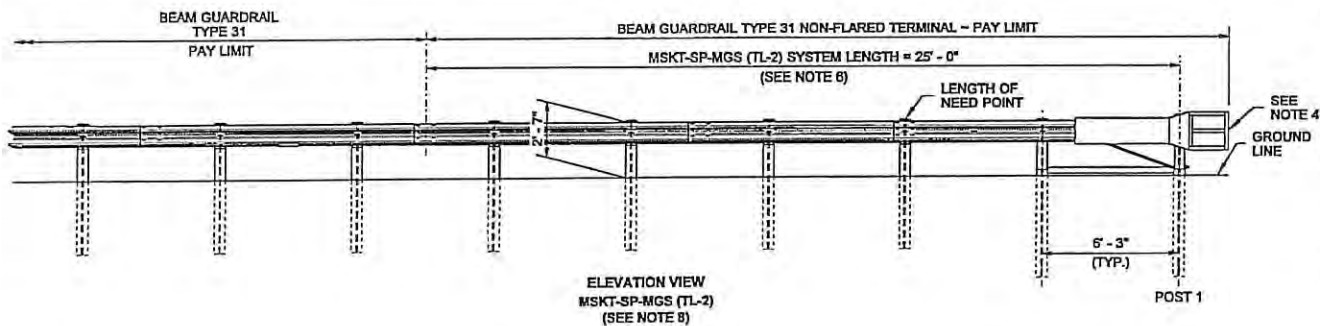
Jeff Peterson
 Peterson, Jeff (HQ Design)
 Jun 30 2016 7:16 AM
**BEAM GUARDRAIL TYPE 31
 TO BEAM GUARDRAIL TYPE 1
 ADAPTOR**
STANDARD PLAN C-25.80-04

SHEET 1 OF 1 SHEET

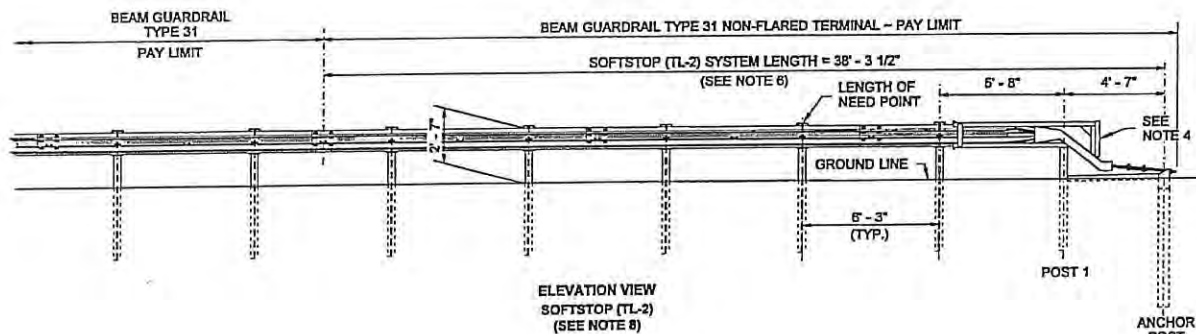
APPROVED FOR PUBLICATION	
<i>Carpenter, Jeff</i>	Carpenter, Jeff Jul 15 2016 2:26 PM
STATE DESIGN ENGINEER	
Washington State Department of Transportation	



PLAN VIEW
(MSKT-SP-MGS (TL-2) SHOWN)



ELEVATION VIEW
MSKT-SP-MGS (TL-2)
(SEE NOTE 8)



ELEVATION VIEW
SOFTSTOP (TL-2)
(SEE NOTE 8)

NOTES

1. The Implementation of the Manual for Assessment of Safety Hardware (MASH) criteria may result in the acceptance of guardrail terminal systems currently not shown on this plan. Non-Flared terminals shall be selected from the WSDOT Qualified Products List (QPL) or approved through the WSDOT Request for Approval of Materials (RAM) process.
2. This terminal is MASH compliant at Test Level Two (TL-2) and may be used in applications with posted speeds of 45 mph or less.
3. An MSKT-SP-MGS (TL-2) as manufactured by Road Systems, Inc. or SOFTSTOP (TL-2) as manufactured by Trinity Highway Products, LLC shall be installed according to manufacturer's recommendations.
4. A reflectorized object marker shall be installed according to manufacturer's recommendations.
5. When snow load post washers and snow load rail washers are required by the Contract, the snow load rail washers shall not be installed within the terminal limits.
6. Terminal shall be installed at a widening, ensuring the end piece is entirely off the shoulder. While this terminal does not require an offset at the end, a flare is recommended. For the MSKT-SP-MGS (TL-2), a maximum flare of 25 : 1 or flatter over the length of the terminal is allowed with a maximum offset of 24" (in) over 50' (ft).
For the SOFTSTOP (TL-2) a maximum flare of 38.29 : 1 or flatter is allowed over the system length of 38' - 3 1/2" with a maximum offset of 12" (in) at the anchor post.

7. For terminal details, see WSDOT approved manufacturer's drawings.
8. These terminals are supplied with steel posts only. They can be used with guardrail runs composed of steel or wood guardrail posts.



**BEAM GUARDRAIL TYPE 31
NON-FLARED TERMINAL
(POSTED SPEED
45 MPH AND BELOW)
STANDARD PLAN C-22.45-03**

SHEET 1 OF 1 SHEET

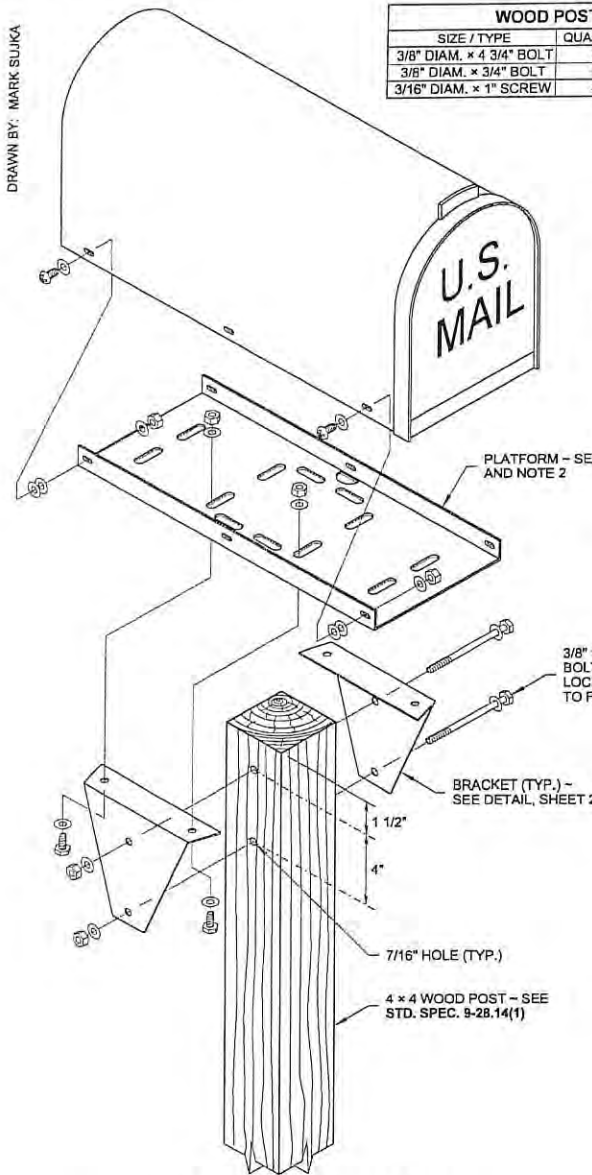
APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 21 2017 9:25 AM

STATE DESIGN ENGINEER
Washington State Department of Transportation

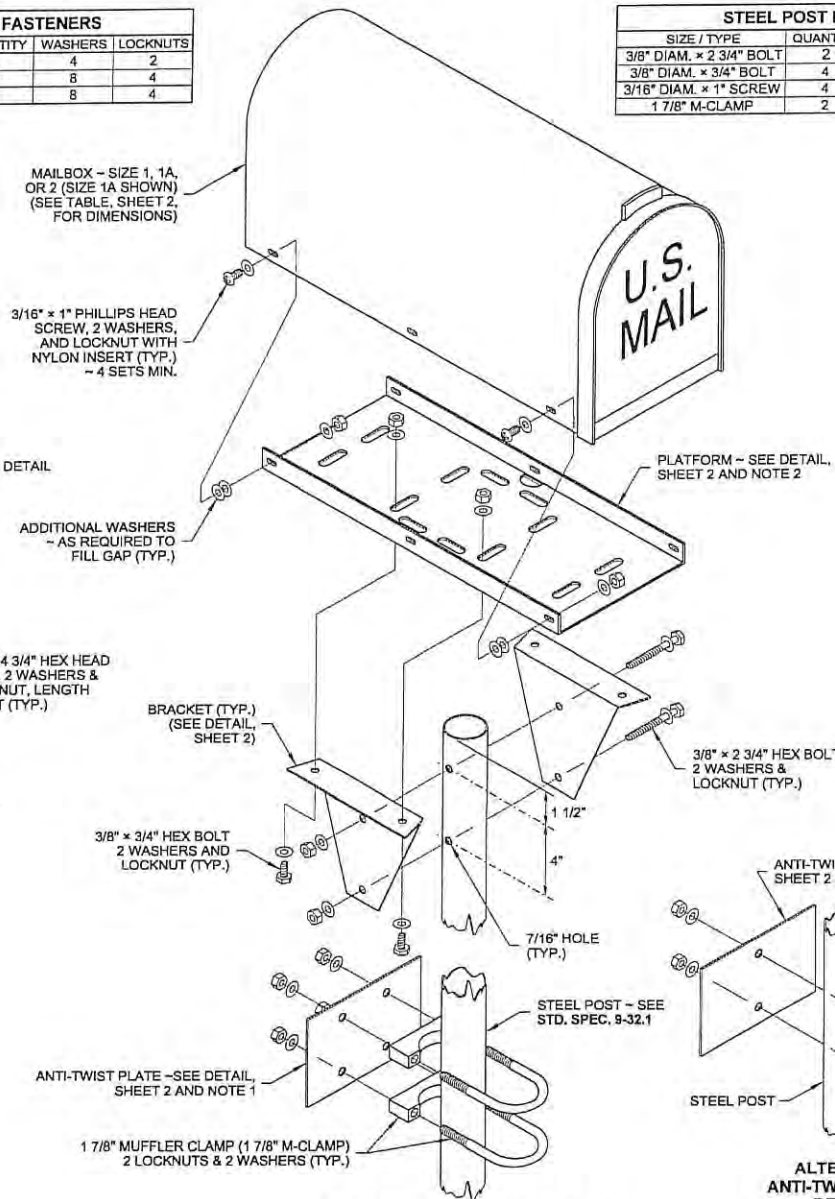
DRAWN BY: MARK SUJKA

WOOD POST FASTENERS			
SIZE / TYPE	QUANTITY	WASHERS	LOCKNUTS
3/8" DIAM. x 4 3/4" BOLT	2	4	2
3/8" DIAM. x 3/4" BOLT	4	8	4
3/16" DIAM. x 1" SCREW	4	8	4

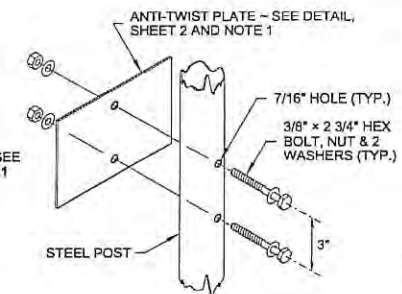
STEEL POST FASTENERS			
SIZE / TYPE	QUANTITY	WASHERS	LOCKNUTS
3/8" DIAM. x 2 3/4" BOLT	2	4	2
3/8" DIAM. x 3/4" BOLT	4	8	4
3/16" DIAM. x 1" SCREW	4	8	4
1 7/8" M-CLAMP	2	4	4



WOOD POST ASSEMBLY DETAIL
SEE STEEL POST ASSEMBLY DETAIL FOR SPECIFICATIONS NOT SHOWN



STEEL POST ASSEMBLY DETAIL



ALTERNATE ANTI-TWIST PLATE DESIGN

NOTES

1. A socket and wedge anchoring system that meets the NCHRP 350 crash test criteria may be substituted in lieu of the anti-twist plate designs shown. Anti-twist plates are not required for wood post installations.
2. The platform design shown on this plan features slots that accommodate several types of mailbox supports; only those slots necessary for assembling the type being installed are required. An adjustable platform may be used in lieu of this design, but it must fit the bracket design shown on this plan. Brackets are required for all single-post installations. Field drilling may be necessary.
3. Center the mailbox on the platform to ensure space for the mailbox door to open and to allow space for installing the fasteners (see ALIGNMENT DETAIL, Sheet 2). Spacing of mailbox mounting holes varies among manufacturers. Attachment of the mailbox to the platform may require drilling additional holes through the mailbox to fit the platform.
4. Attach a newspaper box to a steel post with two 1 7/8" Muffler Clamps spaced 4" apart. Field drill 7/16" holes in the newspaper box to fit. Use 2 1/2" x 1/4" lag bolts to attach newspaper boxes to wood posts. Newspaper boxes must not extend beyond the front of the mailbox when the mailbox door is closed.
5. A Type 2 Support (Standard Plan H-70.20) is required when 2 or more mailboxes are to be installed on one support.



NOTE: THIS PLAN IS A LEGAL ENGINEERING DOCUMENT. THE ENGINEER HAS REVIEWED THIS PLAN AND APPROVED FOR PUBLICATION AS SHOWN ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MUST BE OBTAINED UPON REQUEST.

MAILBOX SUPPORT TYPE 1
STANDARD PLAN H-70.10-01

SHEET 1 OF 2 SHEETS

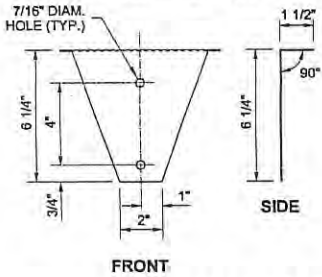
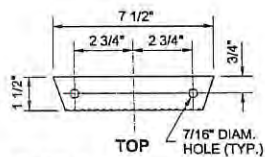
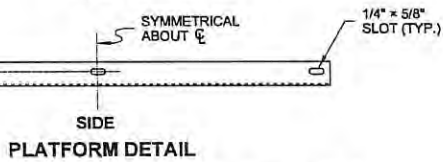
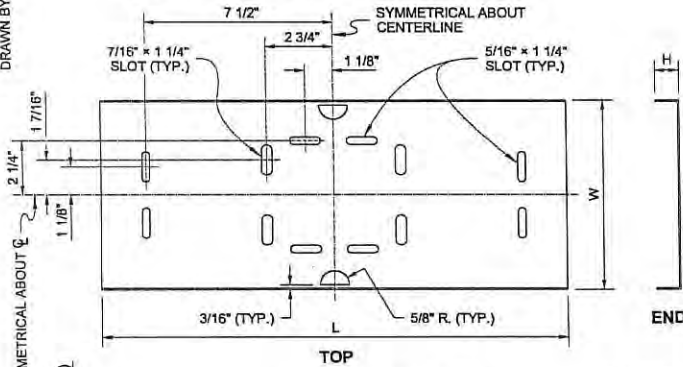
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Pasco Bakotich III 02-07-12

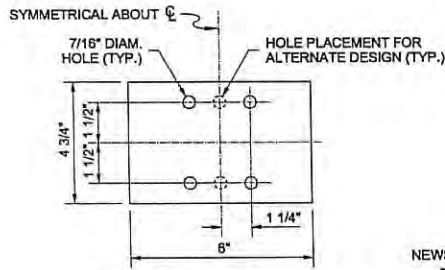
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Washington State Department of Transportation

DRAWN BY: MARK SUJKA

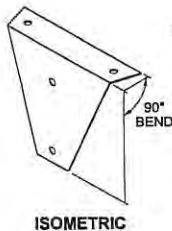
MAILBOX & PLATFORM DIMENSIONS							
SIZE	MAILBOX DIMENSIONS			PLATFORM DIMENSIONS			
	L	W	H	L	W	H	
1	19"	6 1/2"	8 1/2"	17"	6"	1"	
1A	21"	8"	10 1/2"	19"	7 1/2"	1"	
2	24"	11 1/2"	13 1/2"	21"	11"	1"	



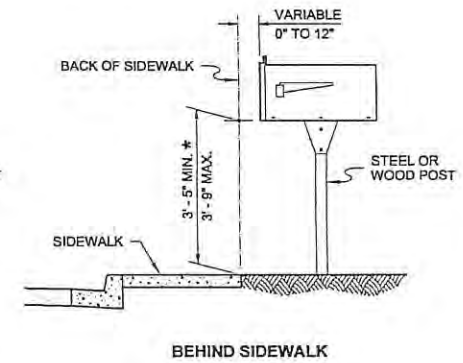
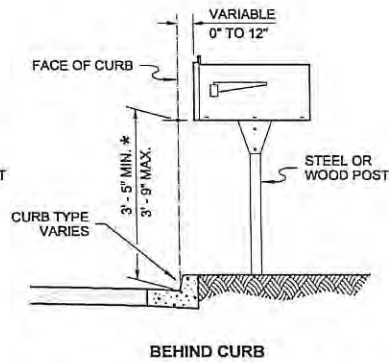
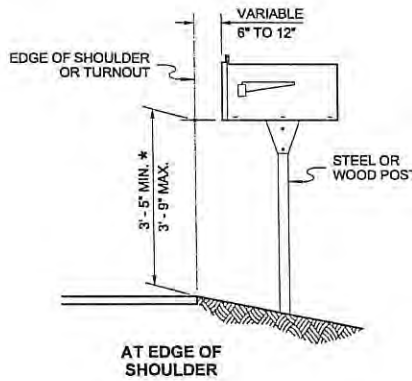
BRACKET DETAIL



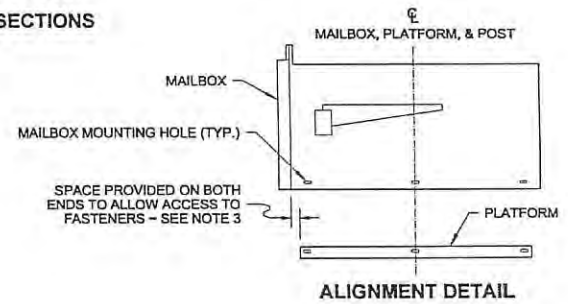
ANTI-TWIST PLATE DETAIL



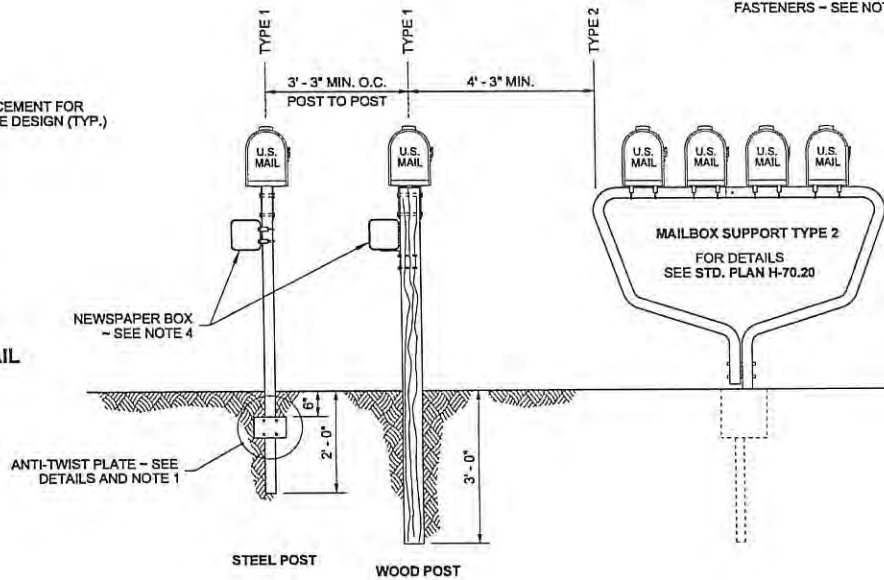
ISOMETRIC



MAILBOX PLACEMENT SECTIONS
* UNLESS OTHERWISE SHOWN IN THE PLANS



ALIGNMENT DETAIL



POST PLACEMENT DETAIL



NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT UNLESS IT IS SIGNED AND APPROVED FOR PUBLICATION AS SET FORTH IN THE WASHINGTON REGISTERED PROFESSIONAL ENGINEER'S PORTFOLIO. A COPY MUST BE SUBMITTED WITH EACH SET.

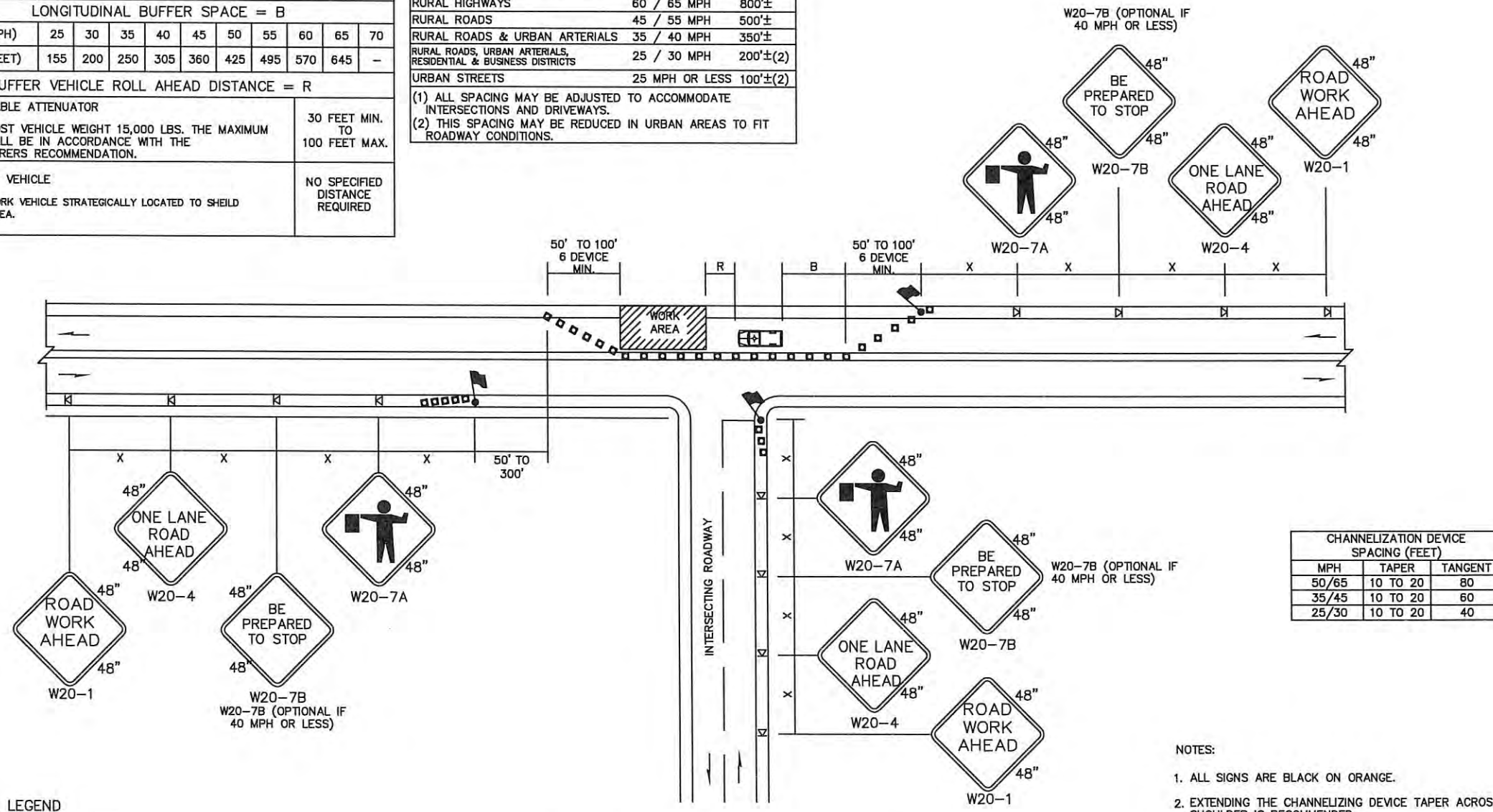
MAILBOX SUPPORT TYPE 1
STANDARD PLAN H-70.10-01
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
Pasco Bakotich III 02-07-12
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FEET)	155	200	250	305	360	425	495	570	645	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR										30 FEET MIN. TO 100 FEET MAX.
MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										
PROTECTIVE VEHICLE										NO SPECIFIED DISTANCE REQUIRED
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.										

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800'±
RURAL ROADS	45 / 55 MPH	500'±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200'±(2)
URBAN STREETS	25 MPH OR LESS	100'±(2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50/65	10 TO 20	80
35/45	10 TO 20	60
25/30	10 TO 20	40

- NOTES:
- ALL SIGNS ARE BLACK ON ORANGE.
 - EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
 - NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
 - SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.

- LEGEND
- FLAGGING STATION
 - TEMPORARY SIGN LOCATION
 - CHANNELIZING DEVICES
 - PROTECTIVE VEHICLE

ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS
NOT TO SCALE

DESIGNED BY :	NO.	DATE	REVISION	BY	APP.
DRAWN BY :					
CHECKED BY :					
DATE :					

HWY SAFETY IMPROVEMENT PROGRAM - PHASE 2

F.A. PROJECT NO: HSIP-000S(479)
COUNTY ROAD PROJECT NO: 2185B
TRAFFIC CONTROL PLAN

SHEET
1 OF 1



Donald J. Carney, P.E.
Senior Engineer/Design
Date: 4-7-19

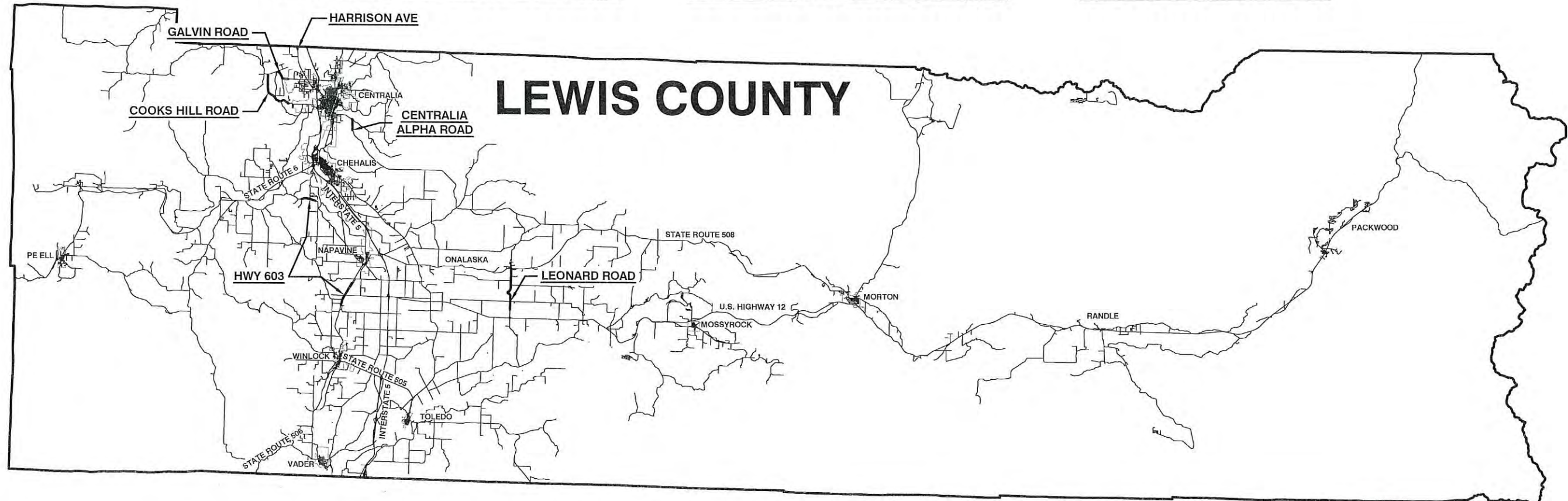


HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

COUNTY ROAD PROJECT NO: 2185B

FEDERAL AID NO. HSIP-000S(479)

F.A. CONTRACT # TA 6330



VICINITY MAP

NOT TO SCALE

COMMISSIONERS:

EDNA J. FUND, DISTRICT 1
BOBBY JACKSON, DISTRICT 2
GARY STAMPER, DISTRICT 3



**ENGINEERING-
DESIGN SECTION**

LEWIS COUNTY
DEPARTMENT OF PUBLIC WORKS
APPROVED FOR CONSTRUCTION:

[Signature] 4-4-19
Assistant County Engineer Date



ROADWAY SECTIONS INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES & LEGEND
3	TYPICAL SECTIONS
C1	COOKS HILL ROAD SUMMARY OF QUANTITIES
C2	COOKS HILL ROAD SITE 1
C3	COOKS HILL ROAD SITE 2 & 3
C4	COOKS HILL ROAD SITE 4
CA1	CENTRALIA ALPHA ROAD SUMMARY OF QUANTITIES
CA2	CENTRALIA ALPHA ROAD SITE 1 & 3
G1	GALVIN ROAD SUMMARY OF QUANTITIES
G2	GALVIN ROAD SITE 3
H1	HARRISON AVENUE SUMMARY OF QUANTITIES
H2	HARRISON AVENUE SITE 1
HY1	HWY 603 SUMMARY OF QUANTITIES
HY2	HWY 603 SITE 1 & 4
L1	LEONARD ROAD SUMMARY OF QUANTITIES
L2	LEONARD ROAD SITE 1 & 2
L3	LEONARD ROAD SITE 3 & 4
L4	LEONARD ROAD SITE 5
L5	LEONARD ROAD SITE 6
L6	LEONARD ROAD SITE 7

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
3	0170	REMOVING GUARDRAIL	637.5	L.F.
4	0182	REMOVING GUARDRAIL ANCHOR	13	EACH
5	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
6	0408	SELECT BORROW INCL. HAUL	1565	TON
7	S.P.	STEPPED SLOPE CONSTRUCTION	565	TON
DRAINAGE				
8	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	87	L.F.
SURFACING				
9	5100	CRUSHED SURFACING BASE COURSE	4532	TON
EROSION CONTROL AND ROADSIDE PLANTING				
10	6409	TOPSOIL TYPE C	0.06	ACRE
11	6414	SEEDING, FERTILIZING, AND MULCHING	0.06	ACRE
12	6479	WATTLE	5041	L.F.
TRAFFIC				
13	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	1662.5	L.F.
14	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	700	L.F.
15	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	1	EACH
16	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	11	EACH
17	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	125	L.F.
18	6751	BEAM GUARDRAIL TYPE 1	12.5	L.F.
19	6755	BEAM GUARDRAIL BLOCK	33	EACH
20	6757	BEAM GUARDRAIL TYPE 31	237.5	L.F.
21	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	6	EACH
22	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	1	EACH
23	6766	BEAM GUARDRAIL ANCHOR TYPE 10	2	EACH
24	6783	RAISING EXISTING BEAM GUARDRAIL	62.5	L.F.
25	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
26	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	12.5	L.F.
27	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	352	EACH
OTHER ITEMS				
28	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
29	7562	MAILBOX SUPPORT TYPE 1	1	EACH
30	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
31	7728	MINOR CHANGE	CALC	CALC
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM

LEGEND

EXISTING FEATURES		SURVEY FEATURES	
	CULVERT/STORM SEWER		RIGHT OF WAY
	FLOW (DITCH)		PROPERTY LINE
	CENTERLINE		PERMANENT SLOPE EASEMENT
	EDGE OF ROADWAY		TEMPORARY CONSTRUCTION EASEMENT
	GUARDRAIL		COUNTY LINE
	APPROACH		
	BRIDGE/SIDEWALK		
	FOG LINE		

NEW CONSTRUCTION FEATURES	
	CALLOUT
	CULVERT/ CULVERT EXTENSION
	LANDINGS & FILL SLOPES
	GUARDRAIL
	FILL
	WATTLE

GENERAL NOTES

- AT ALL TIMES FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL HAVE ON HAND, THE PROJECT CONTRACT PROVISIONS AND PLANS, AND A CURRENT EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (M 41-10).
- THE CONTRACTOR WILL COORDINATE, COOPERATE AND ASSIST IN THE INSPECTION PROCESSES THAT IS REQUIRED FOR THE COMPLETION OF THE PROJECT.
- AT NO COST TO THE CONTRACTOR, ALL NECESSARY CONSTRUCTION SURVEY REQUESTS SHALL BE GIVEN A 3 DAY IN ADVANCE WRITTEN NOTICE. HOWEVER, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING NEEDED SURVEY STAKES DESTROYED THROUGH NORMAL OPERATIONS, NEGLIGENCE, OR INATTENTION.
- AT THE END OF EACH DAY, THE CONTRACTOR SHALL CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURED MANNER. UPON COMPLETION, THE CONTRACTOR SHALL LEAVE THE PROJECT FREE OF DEBRIS AND UNUSED MATERIAL.
- THE CONTRACTOR IS TO MAINTAIN INGRESS AND EGRESS FROM THE PROJECT SITE, AND PRIVATE PROPERTY DRIVEWAYS DURING CONSTRUCTION.
- AT A MINIMUM, THE CONTRACTOR IS TO MAINTAIN ALTERNATING ONE WAY TRAFFIC CONTROL UNLESS APPROVED TRAFFIC CONTROL PLAN ALLOWS OTHERWISE.

4/4/2019 6:05 AM

S:\Engineer_Road_Folders_Countywide Programs\County Safety Program\Highway Safety Improvement Project\HSIP Phase II CRP-2185B\Drawing\SUMMARY OF QUANTITIES.dwg

2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLC
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2185B

SUMMARY OF QUANTITIES &
LEGEND

SHEET
2 OF 3

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555
"It's the Last"
Utilities Underground Location Center

Donald J. Carney, P.E.
Senior Engineer/Design

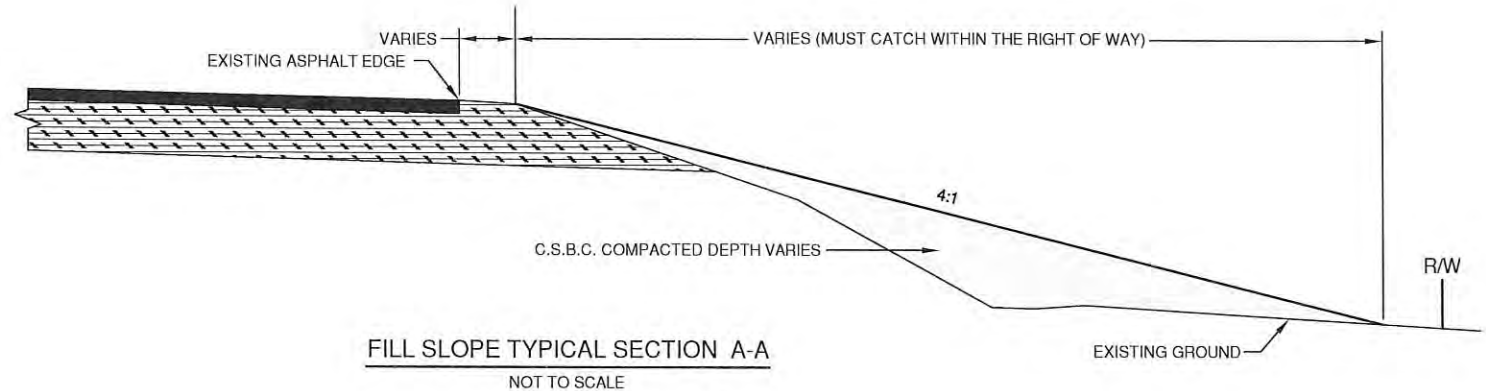
Donald J. Carney
Date: 3-27-19



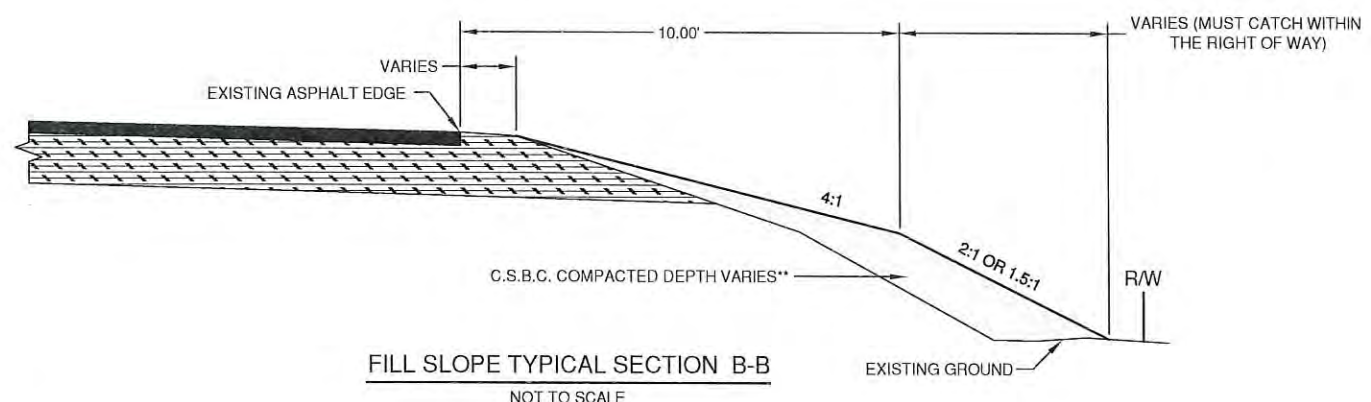
EXPIRES 5/23/19

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CONSTRUCTION NOTES
 KEYSTONE SHALL BE PLACED IN THE TOP 0.10' OF C.S.B.C.
 AS DIRECTED BY THE ENGINEER

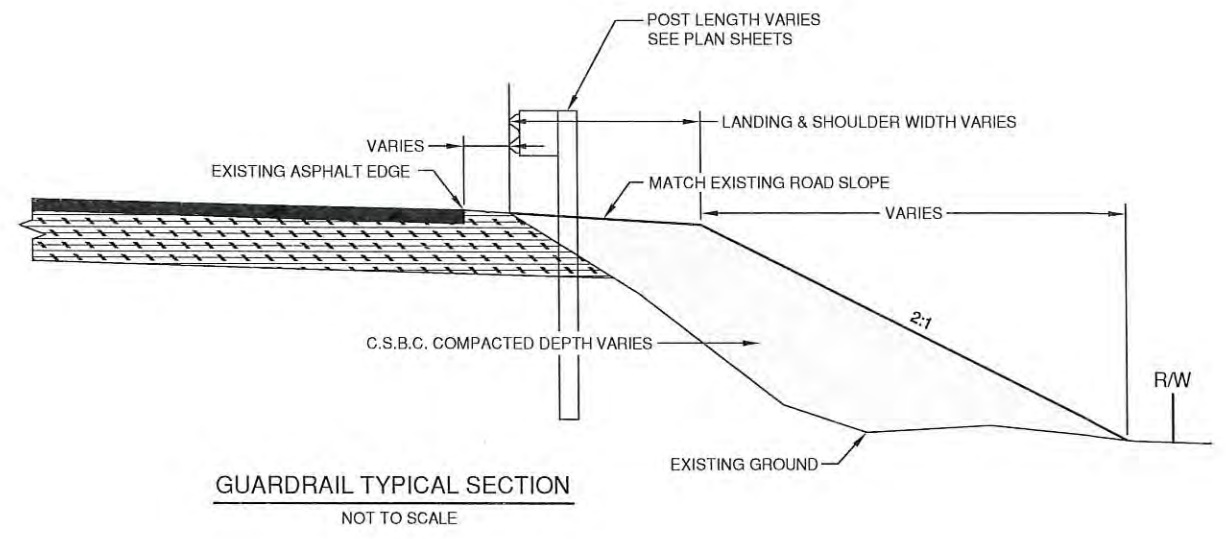


FILL SLOPE TYPICAL SECTION A-A
 NOT TO SCALE



FILL SLOPE TYPICAL SECTION B-B
 NOT TO SCALE

** ALL SITES SHALL USE C.S.B.C. COMPACTED DEPTH VARIES EXCEPT FOR THE FOLLOWING SITES SHALL USE SELECT BORROW COMPACTED DEPTH VARIES UP TO 1' BELOW FINISH SHOULDER, THE TOP 1' SHALL BE C.S.B.C.
 GALVIN ROAD SITE 3
 CENTRALIA ALPHA ROAD SITES 1 & 3



GUARDRAIL TYPICAL SECTION
 NOT TO SCALE

Lewis County
 Department of Public Works
 2025 N. E. KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY : DJC
 DRAWN BY : CGA
 CHECKED BY :
 DATE :

NO.	DATE	REVISION	BY	APP.

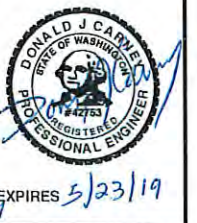
HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S(479)
 COUNTY PROJECT NO: 2185B
 TYPICAL SECTIONS

SHEET
3
 OF
3



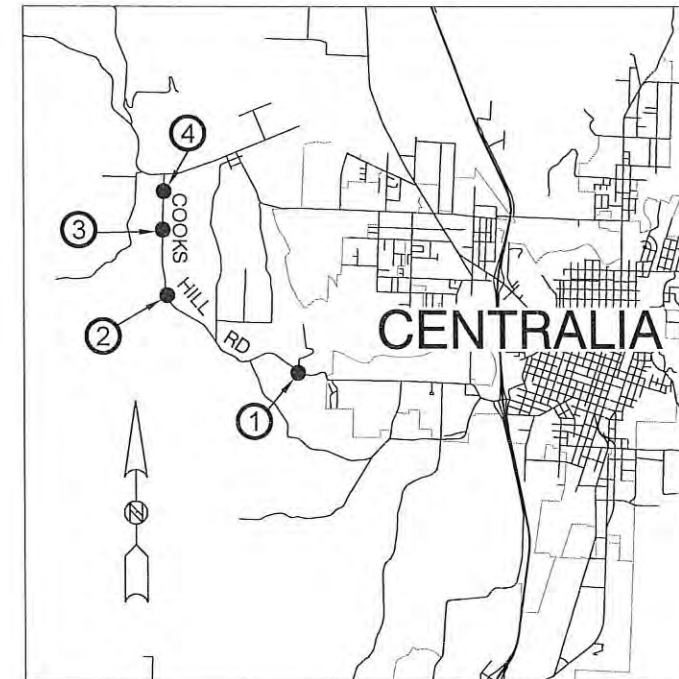
Donald J. Carney, P.E.
 Senior Engineer/Design
 Date: 3-27-19



COOKS HILL ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
3	0170	REMOVING GUARDRAIL	175	L.F.
4	0182	REMOVING GUARDRAIL ANCHOR	4	EACH
5	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
6	0408	SELECT BORROW INCL. HAUL	0	TON
7	S.P.	STEPPED SLOPE CONSTRUCTION	565	TON
DRAINAGE				
8	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	87	L.F.
SURFACING				
9	5100	CRUSHED SURFACING BASE COURSE	877	TON
EROSION CONTROL AND ROADSIDE PLANTING				
10	6409	TOPSOIL TYPE C	0.06	ACRE
11	6414	SEEDING, FERTILIZING, AND MULCHING	0.06	ACRE
12	6479	WATTLE	200	L.F.
TRAFFIC				
13	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	825	L.F.
14	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	425	L.F.
15	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
16	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	7	EACH
17	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	125	L.F.
18	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
19	6755	BEAM GUARDRAIL BLOCK	0	EACH
20	6757	BEAM GUARDRAIL TYPE 31	37.5	L.F.
21	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
22	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	0	EACH
23	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
24	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
25	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
26	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	0	L.F.
27	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	166	EACH
OTHER ITEMS				
28	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
29	7562	MAILBOX SUPPORT TYPE 1	1	EACH
30	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
31	7728	MINOR CHANGE	CALC	CALC
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP

NOT TO SCALE

4/4/2019 6:07 AM

S:\Engineer\Road Folders\Countywide Programs\County Safety Program\Highway Safety Improvement Project\HSIP Phase II CRP-2185B\Drawing\SUMMARY OF QUANTITIES.dwg

Lewis County
 Department of Public Works
 2025 NE KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY : DJC
 DRAWN BY : KLC
 CHECKED BY :
 DATE :

NO.	DATE	REVISION	BY	APP.

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S(479)
 COUNTY PROJECT NO: 2185B

COOKS HILL ROAD
 SUMMARY OF QUANTITIES

SHEET
C1
 OF
C4



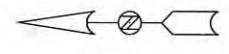
Donald J. Carney, P.E.
 Senior Engineer/Design
Donald J. Carney
 Date: 3-27-19



EXPIRES 5/23/19

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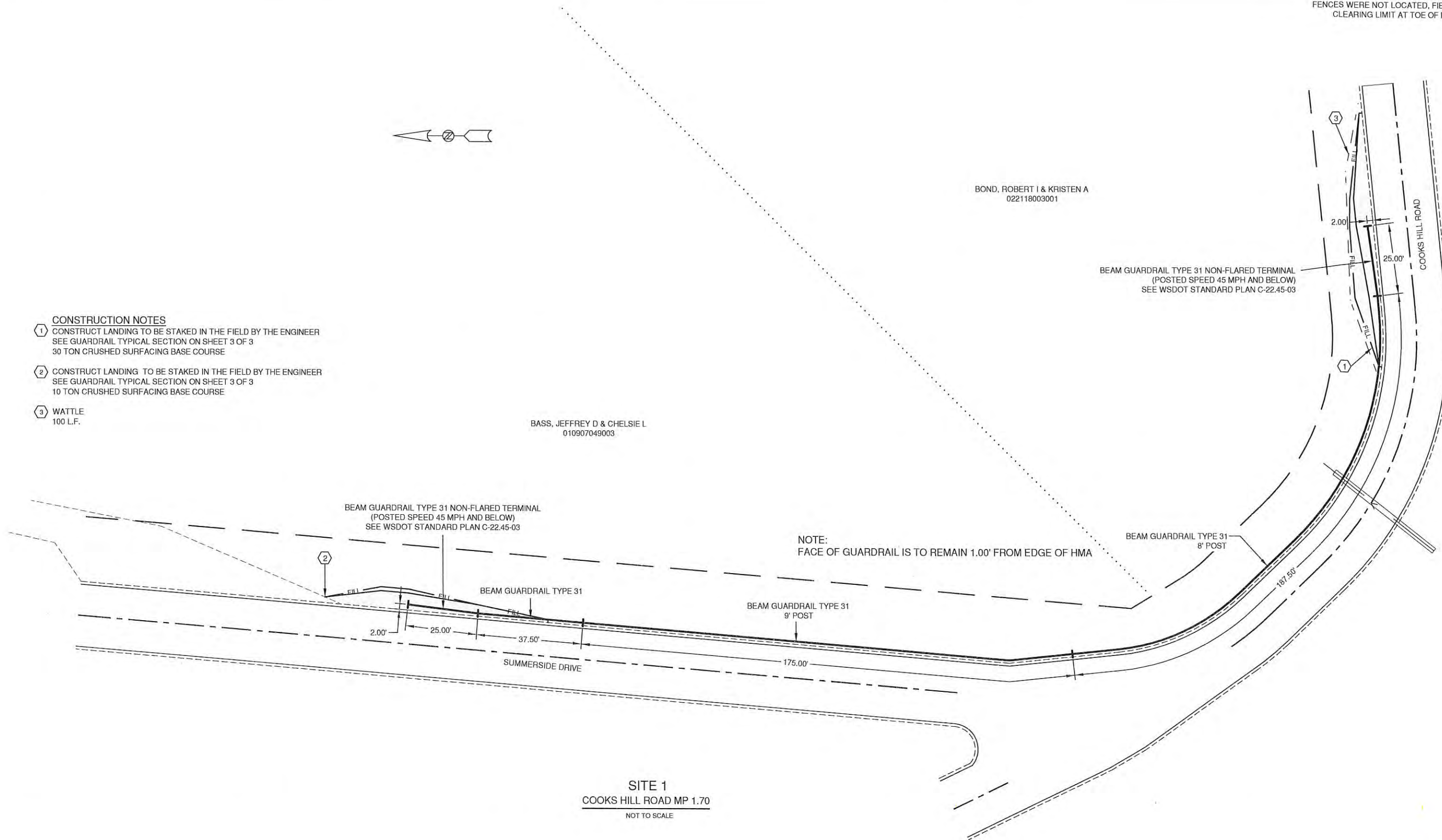
LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



BOND, ROBERT I & KRISTEN A
022118003001

BASS, JEFFREY D & CHELSIE L
010907049003

- CONSTRUCTION NOTES**
- 1 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
30 TON CRUSHED SURFACING BASE COURSE
 - 2 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
10 TON CRUSHED SURFACING BASE COURSE
 - 3 WATTLE
100 L.F.



SITE 1
COOKS HILL ROAD MP 1.70
NOT TO SCALE

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

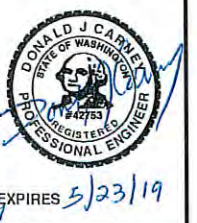
**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2185B
COOKS HILL ROAD SITE 1

SHEET
C2
OF
C4

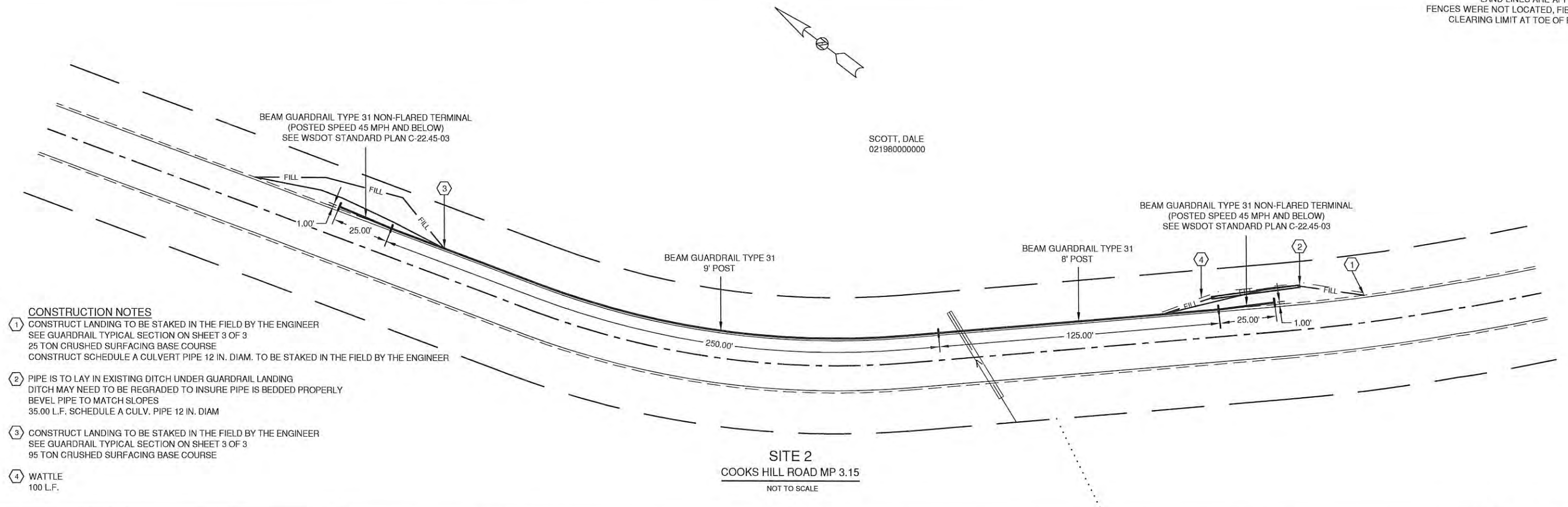


Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19

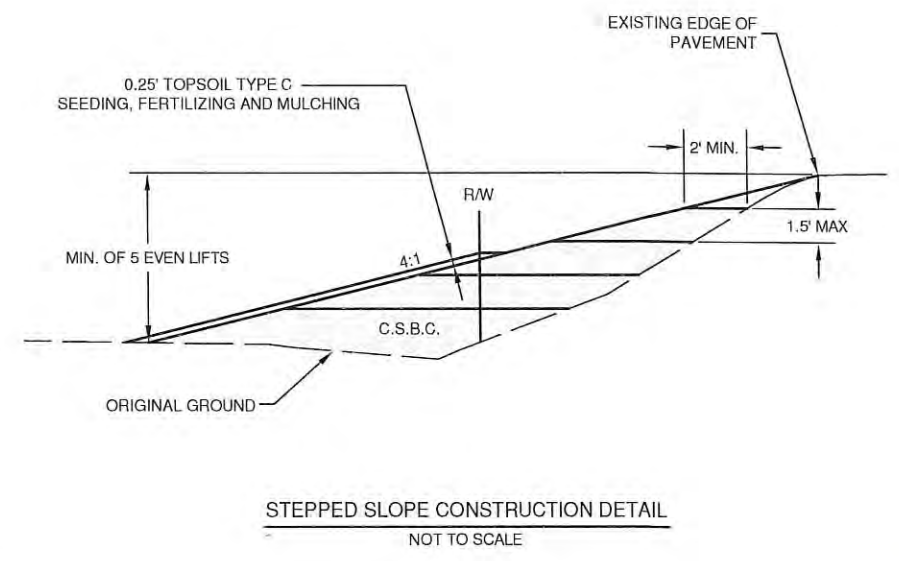
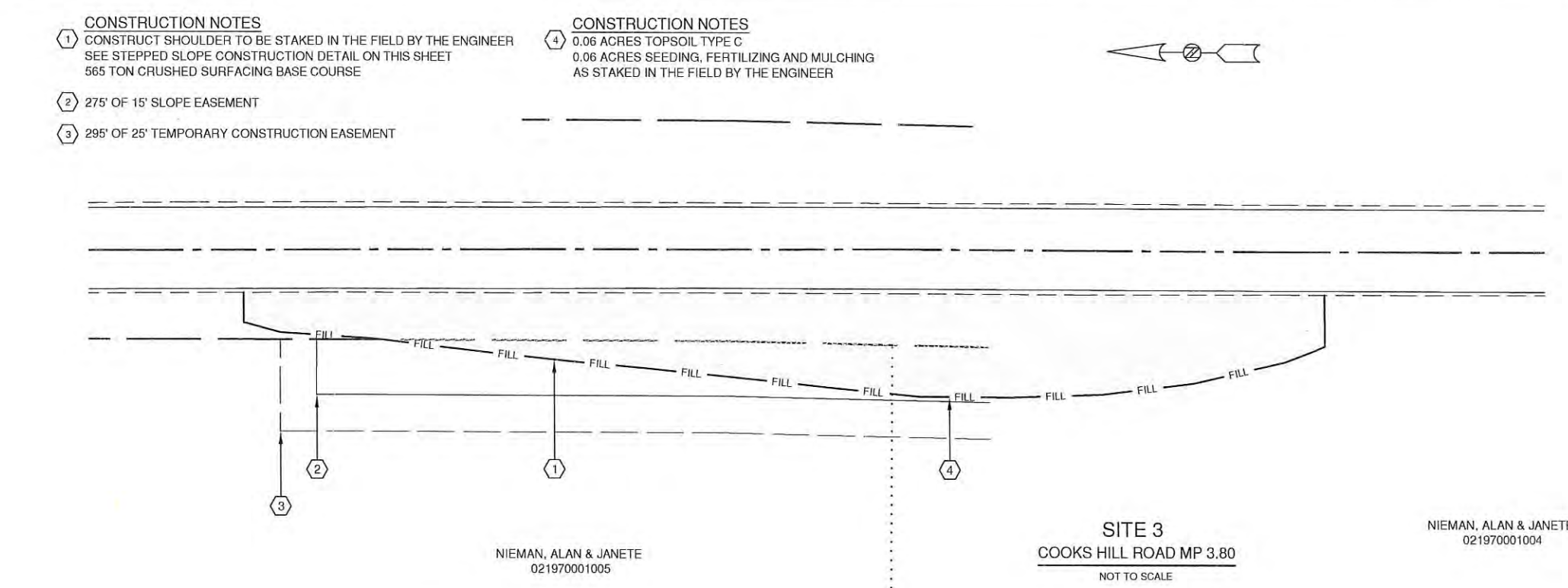


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LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



Lewis County
Department of Public Works

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLC
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

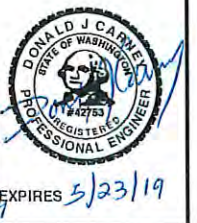
**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2185B
COOKS HILL ROAD SITE 2 & 3

SHEET
C3
OF
C4



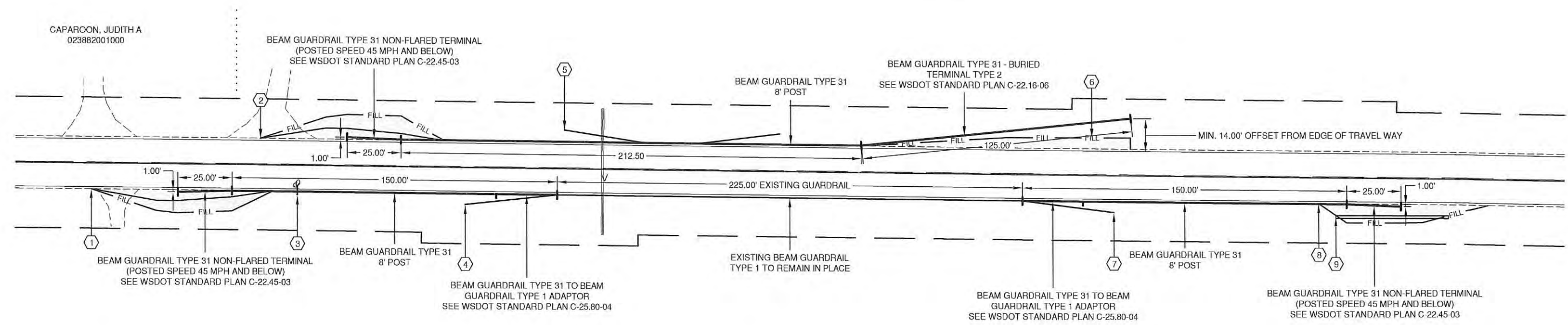
Donald J. Carney, P.E.
Senior Engineer/Designer
Date: 3-27-19



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LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

JOHNSON, YVONNE
023882002000



ERICKSON, PAUL A & KRISTEN
023883000000

SITE 4
COOKS HILL ROAD MP 4.08
NOT TO SCALE

CONSTRUCTION NOTES

- 1 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
47 TON CRUSHED SURFACING BASE COURSE
- 2 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
55 TON CRUSHED SURFACING BASE COURSE
- 3 REPLACE EXISTING MAILBOX AND PAPER BOX LOCATION TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE WSDOT STANDARD PLAN H-70.10-01
1.00 EACH MAILBOX SUPPORT TYPE 1
- 4 REMOVE EXISTING BEAM GUARDRAIL AND ANCHOR
37.50 L.F. REMOVING GUARDRAIL
1.00 EACH REMOVING GUARDRAIL ANCHOR
- 5 REMOVE EXISTING BEAM GUARDRAIL AND ANCHORS
100.00 L.F. REMOVING GUARDRAIL
2.00 EACH REMOVING GUARDRAIL ANCHORS

CONSTRUCTION NOTES

- 6 CONSTRUCT 4:1 FILL SLOPE TO BE STAKED IN THE FIELD BY THE ENGINEER
10 TON CRUSHED SURFACING BASE COURSE
- 7 REMOVE EXISTING BEAM GUARDRAIL AND ANCHOR
37.50 L.F. REMOVING GUARDRAIL
1.00 EACH REMOVING GUARDRAIL ANCHOR
- 8 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
40 TON CRUSHED SURFACING BASE COURSE
- 9 CONSTRUCT SCHEDULE A CULVERT PIPE 12 IN. DIAM. TO BE STAKED IN THE FIELD BY THE ENGINEER
PIPE IS TO LAY IN EXISTING DITCH UNDER GUARDRAIL LANDING
DITCH MAY NEED TO BE REGRADED TO INSURE PIPE IS BEDDED PROPERLY
BEVEL PIPE TO MATCH SLOPES
52.00 L.F. SCHEDULE A CULV. PIPE 12 IN. DIAM.



Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY :	NO.	DATE	REVISION	BY	APP.
DJC					
DRAWN BY :					
CGA					
CHECKED BY :					
DATE :					

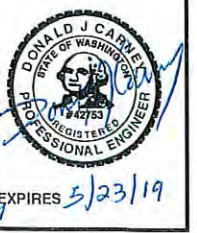
**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2165B
COOKS HILL ROAD SITE 4

SHEET
C4
OF
C4



Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19



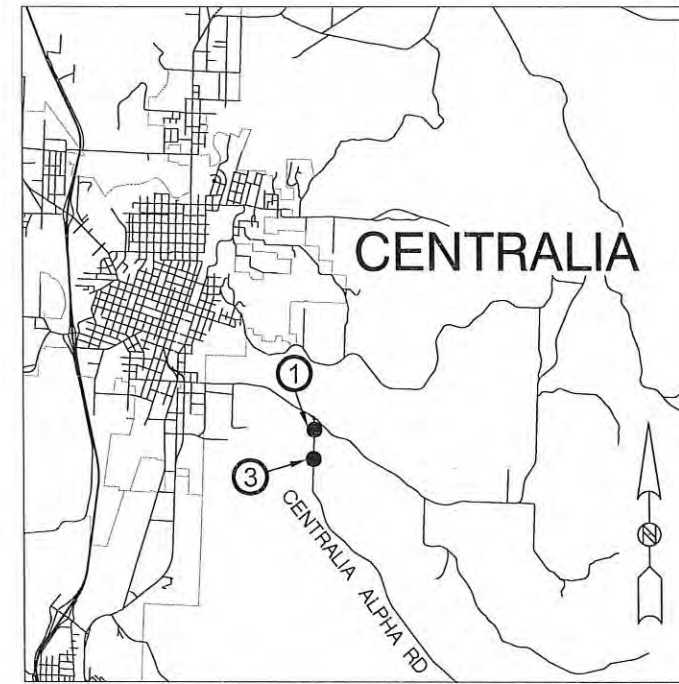
4/4/2019 6:07 AM

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CENTRALIA ALPHA ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
3	0170	REMOVING GUARDRAIL	0	L.F.
4	0182	REMOVING GUARDRAIL ANCHOR	0	EACH
5	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
6	0408	SELECT BORROW INCL. HAUL	1125	TON
7	S.P.	STEPPED SLOPE CONSTRUCTION	0	TON
DRAINAGE				
8	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	0	L.F.
SURFACING				
9	5100	CRUSHED SURFACING BASE COURSE	275	TON
EROSION CONTROL AND ROADSIDE PLANTING				
10	6409	TOPSOIL TYPE C	0	ACRE
11	6414	SEEDING, FERTILIZING, AND MULCHING	0	ACRE
12	6479	WATTLE	1002	L.F.
TRAFFIC				
13	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
14	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	0	L.F.
15	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
16	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
17	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	0	L.F.
18	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
19	6755	BEAM GUARDRAIL BLOCK	0	EACH
20	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
21	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
22	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	0	EACH
23	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
24	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
25	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
26	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	0	L.F.
27	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	0	EACH
OTHER ITEMS				
28	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
29	7562	MAILBOX SUPPORT TYPE 1	0	EACH
30	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
31	7728	MINOR CHANGE	CALC	CALC
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY: DJC
DRAWN BY: KLC
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

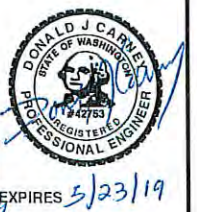
HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSP-000S(479)
COUNTY PROJECT NO: 2185B
CENTRALIA ALPHA ROAD
SUMMARY OF QUANTITIES

SHEET
CA1
OF
CA2

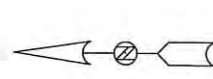


Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19

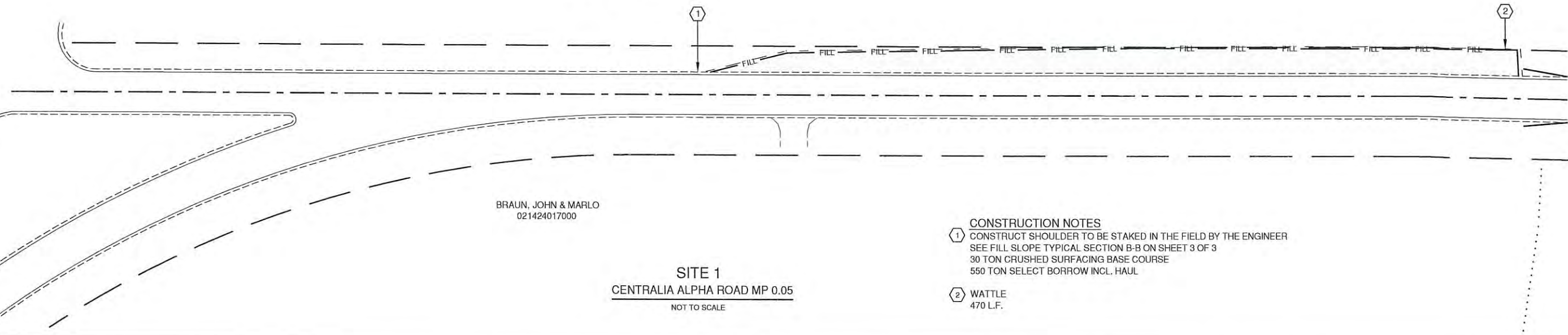


S:\Engineer\Road_Folders\Countywide Programs\County Safety Program\Highway Safety Improvement Project\HSIP_Phase II\CRP-2185B\Drawing\CEN AL RD\CENTRALIA ALPHA ROAD SITE 1 & 2.dwg 4/4/2019 6:14 AM

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



BRAUN, JOHN & MARLO
021408002000



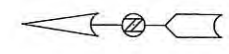
BRAUN, JOHN & MARLO
021424017000

SITE 1
CENTRALIA ALPHA ROAD MP 0.05
NOT TO SCALE

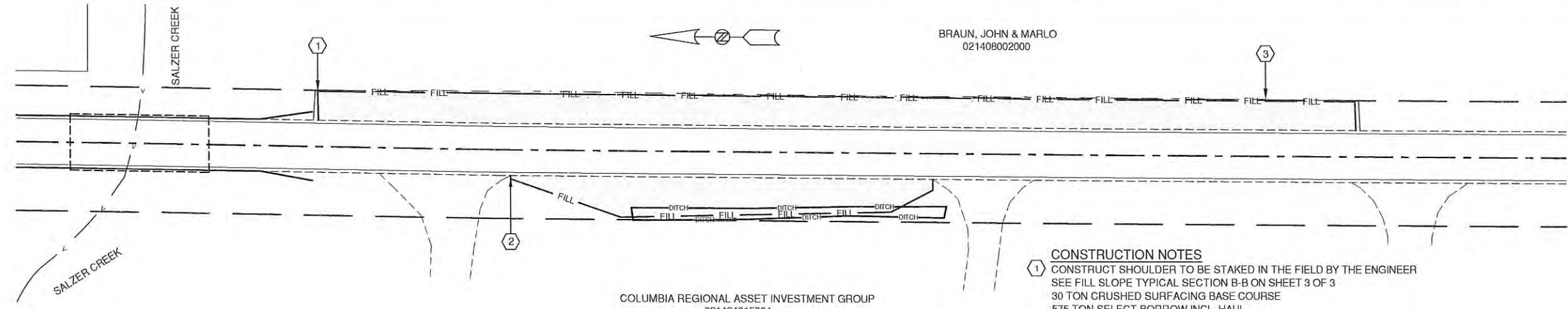
- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
30 TON CRUSHED SURFACING BASE COURSE
550 TON SELECT BORROW INCL. HAUL
 - ② WATTLE
470 L.F.

SITE 2 REMOVED FROM PROJECT

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



BRAUN, JOHN & MARLO
021408002000



COLUMBIA REGIONAL ASSET INVESTMENT GROUP
021424015004

SITE 3
CENTRALIA ALPHA ROAD MP 0.24
NOT TO SCALE

- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
30 TON CRUSHED SURFACING BASE COURSE
575 TON SELECT BORROW INCL. HAUL
 - ② CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A ON SHEET 3 OF 3
215 TON CRUSHED SURFACING BASE COURSE
 - ③ WATTLE
532 L.F.

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

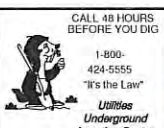
DESIGNED BY: DJC
DRAWN BY: CGA
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2185B
CENTRALIA ALPHA ROAD SITE 1 & 3

SHEET
CA2
OF
CA2



Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19



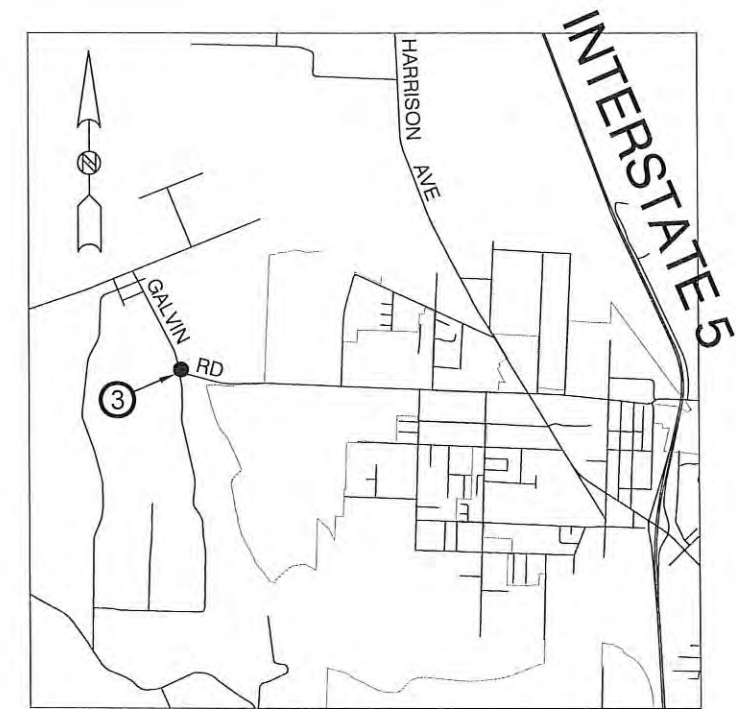
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GALVIN ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
3	0170	REMOVING GUARDRAIL	0	L.F.
4	0182	REMOVING GUARDRAIL ANCHOR	0	EACH
5	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
6	0408	SELECT BORROW INCL. HAUL	440	TON
7	S.P.	STEPPED SLOPE CONSTRUCTION	0	TON
DRAINAGE				
8	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	0	L.F.
SURFACING				
9	5100	CRUSHED SURFACING BASE COURSE	30	TON
EROSION CONTROL AND ROADSIDE PLANTING				
10	6409	TOPSOIL TYPE C	0	ACRE
11	6414	SEEDING, FERTILIZING, AND MULCHING	0	ACRE
12	6479	WATTLE	170	L.F.
TRAFFIC				
13	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
14	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	0	L.F.
15	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
16	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
17	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	0	L.F.
18	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
19	6755	BEAM GUARDRAIL BLOCK	0	EACH
20	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
21	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
22	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	0	EACH
23	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
24	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
25	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
26	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	0	L.F.
27	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	0	EACH
OTHER ITEMS				
28	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
29	7562	MAILBOX SUPPORT TYPE 1	0	EACH
30	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
31	7728	MINOR CHANGE	CALC	CALC
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

NO.	DATE	REVISION	BY	APP.

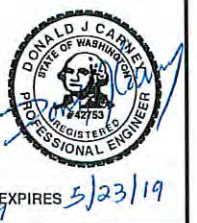
HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2185B
GALVIN ROAD
SUMMARY OF QUANTITIES

SHEET
G1
OF
G2

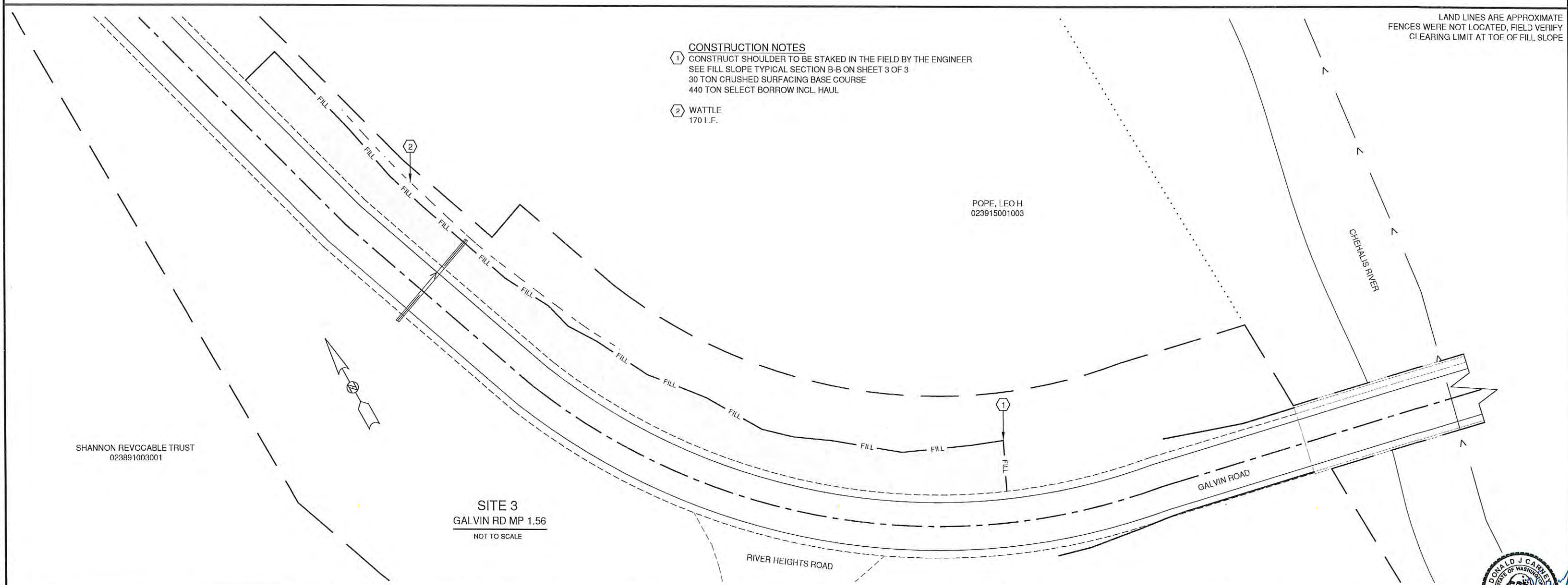


Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19



S:\Engineer\Road Folders\Countywide Programs\County Safety Improvement Project\HSP Phase II\CRP-2185B\Drawing\GALVIN ROAD\GALVIN ROAD SITE 1 SITE 2\CONSTRUCTION.dwg

SITE 1 & SITE 2 WERE REMOVED FROM PROJECT



- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
30 TON CRUSHED SURFACING BASE COURSE
440 TON SELECT BORROW INCL. HAUL
 - ② WATTLE
170 L.F.

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

POPE, LEO H
023915001003

SHANNON REVOCABLE TRUST
023891003001

SITE 3
GALVIN RD MP 1.56
NOT TO SCALE

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : DJC
DRAWN BY : KLC
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

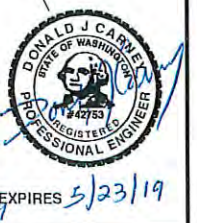
**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSP-000S(479)
COUNTY PROJECT NO: 2185B
GALVIN ROAD SITE 3

SHEET
G2
OF
G2



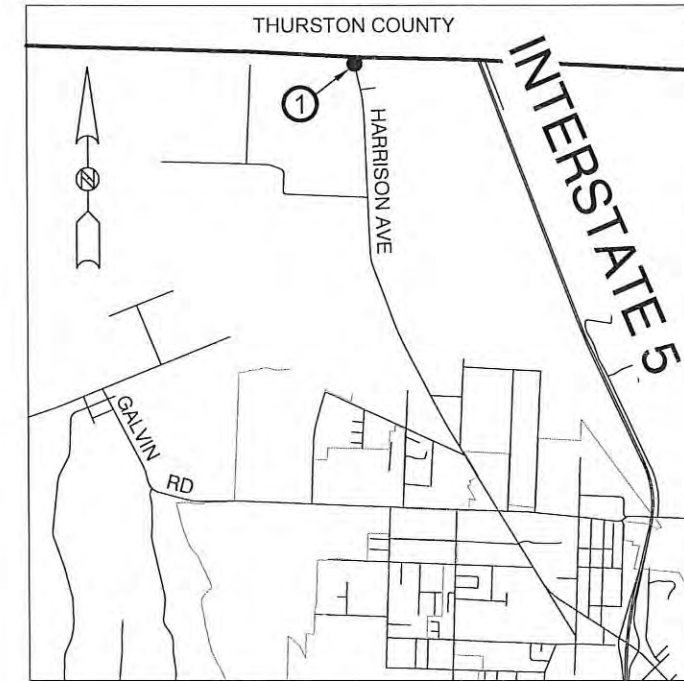
Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19



HARRISON AVENUE

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
	0001	MOBILIZATION	LUMP SUM	LUMP SUM
	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
	0170	REMOVING GUARDRAIL	25	L.F.
	0182	REMOVING GUARDRAIL ANCHOR	1	EACH
	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
	0408	SELECT BORROW INCL. HAUL	0	TON
	S.P.	STEPPED SLOPE CONSTRUCTION	0	TON
DRAINAGE				
	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	0	L.F.
SURFACING				
	5100	CRUSHED SURFACING BASE COURSE	0	TON
EROSION CONTROL AND ROADSIDE PLANTING				
	6409	TOPSOIL TYPE C	0	ACRE
	6414	SEEDING, FERTILIZING, AND MULCHING	0	ACRE
	6479	WATTLE	0	L.F.
TRAFFIC				
	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	0	L.F.
	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	1	EACH
	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	0	L.F.
	6751	BEAM GUARDRAIL TYPE 1	12.5	L.F.
	6755	BEAM GUARDRAIL BLOCK	33	EACH
	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	4	EACH
	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	1	EACH
	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
	6783	RAISING EXISTING BEAM GUARDRAIL	62.5	L.F.
	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	12.5	L.F.
	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	13	EACH
OTHER ITEMS				
	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
	7562	MAILBOX SUPPORT TYPE 1	0	EACH
	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
	7728	MINOR CHANGE	CALC	CALC
	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP

NOT TO SCALE

Lewis County
 Department of Public Works
 2025 NE KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY: DJC
 DRAWN BY: KLC
 CHECKED BY:
 DATE:

NO.	DATE	REVISION	BY	APP.

HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S(479)
 COUNTY PROJECT NO: 2185B

HARRISON AVENUE
 SUMMARY OF QUANTITIES

SHEET
H1
 OF
H2



Donald J. Carney, P.E.
 Senior Engineer/Design

Donald J. Carney
 Date: 3-27-19



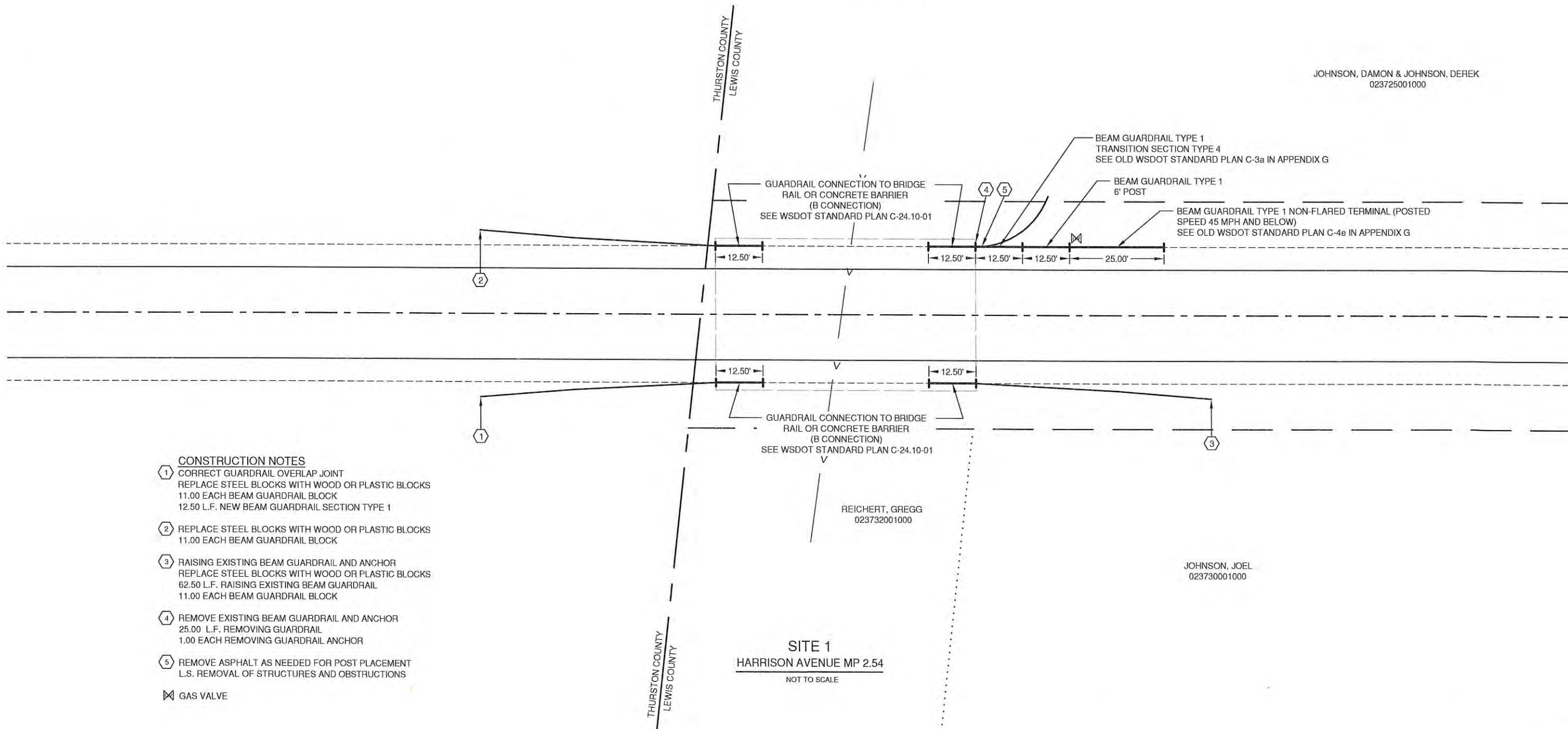
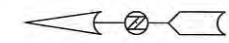
EXPIRES 5/23/19

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED. FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

4/4/2019 6:17 AM

S:\Engineer\Road Folders\Countywide Programs\County Safety Improvement Project\HSIP Phase II\CRP-2185B\Drawing\HARRISON AVE\HARRISON AVE SITE 1.dwg

JOHNSON, DAMON & JOHNSON, DEREK
023725001000



- CONSTRUCTION NOTES**
- ① CORRECT GUARDRAIL OVERLAP JOINT
REPLACE STEEL BLOCKS WITH WOOD OR PLASTIC BLOCKS
11.00 EACH BEAM GUARDRAIL BLOCK
12.50 L.F. NEW BEAM GUARDRAIL SECTION TYPE 1
 - ② REPLACE STEEL BLOCKS WITH WOOD OR PLASTIC BLOCKS
11.00 EACH BEAM GUARDRAIL BLOCK
 - ③ RAISING EXISTING BEAM GUARDRAIL AND ANCHOR
REPLACE STEEL BLOCKS WITH WOOD OR PLASTIC BLOCKS
62.50 L.F. RAISING EXISTING BEAM GUARDRAIL
11.00 EACH BEAM GUARDRAIL BLOCK
 - ④ REMOVE EXISTING BEAM GUARDRAIL AND ANCHOR
25.00 L.F. REMOVING GUARDRAIL
1.00 EACH REMOVING GUARDRAIL ANCHOR
 - ⑤ REMOVE ASPHALT AS NEEDED FOR POST PLACEMENT
L.S. REMOVAL OF STRUCTURES AND OBSTRUCTIONS
- ⊗ GAS VALVE

REICHERT, GREGG
023732001000

JOHNSON, JOEL
023730001000

SITE 1
HARRISON AVENUE MP 2.54
NOT TO SCALE

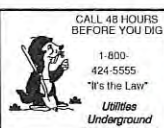
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2185B
HARRISON AVENUE SITE 1

SHEET
H2
OF
H2



Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19

EXPIRES 5/23/19

S:\Engineer\Road Folders\Countywide Programs\County Safety Program\Highway Safety Improvement Project\HSP Phase II CRP-2185B\Drawing\SUMMARY OF QUANTITIES.dwg 4/4/2019 6:08 AM

HWY 603

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
3	0170	REMOVING GUARDRAIL	0	L.F.
4	0182	REMOVING GUARDRAIL ANCHOR	0	EACH
5	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
6	0408	SELECT BORROW INCL. HAUL	0	TON
7	S.P.	STEPPED SLOPE CONSTRUCTION	0	TON
DRAINAGE				
8	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	0	L.F.
SURFACING				
9	5100	CRUSHED SURFACING BASE COURSE	405	TON
EROSION CONTROL AND ROADSIDE PLANTING				
10	6409	TOPSOIL TYPE C	0	ACRE
11	6414	SEEDING, FERTILIZING, AND MULCHING	0	ACRE
12	6479	WATTLE	0	L.F.
TRAFFIC				
13	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	0	L.F.
14	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	0	L.F.
15	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
16	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	0	EACH
17	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	0	L.F.
18	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
19	6755	BEAM GUARDRAIL BLOCK	0	EACH
20	6757	BEAM GUARDRAIL TYPE 31	0	L.F.
21	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	0	EACH
22	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	0	EACH
23	6766	BEAM GUARDRAIL ANCHOR TYPE 10	0	EACH
24	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
25	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
26	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	0	L.F.
27	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	0	EACH
OTHER ITEMS				
28	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
29	7562	MAILBOX SUPPORT TYPE 1	0	EACH
30	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
31	7728	MINOR CHANGE	CALC	CALC
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP
NOT TO SCALE

Lewis County
Department of Public Works
2025 NE KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY :	DRAWN BY :	CHECKED BY :	DATE :	REVISION		BY	APP.
DESIGNED BY : DJC	DRAWN BY : KLC	CHECKED BY :	DATE :				

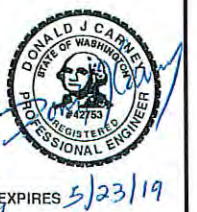
HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2185B
HWY 603
SUMMARY OF QUANTITIES

SHEET
HY1
OF
HY2

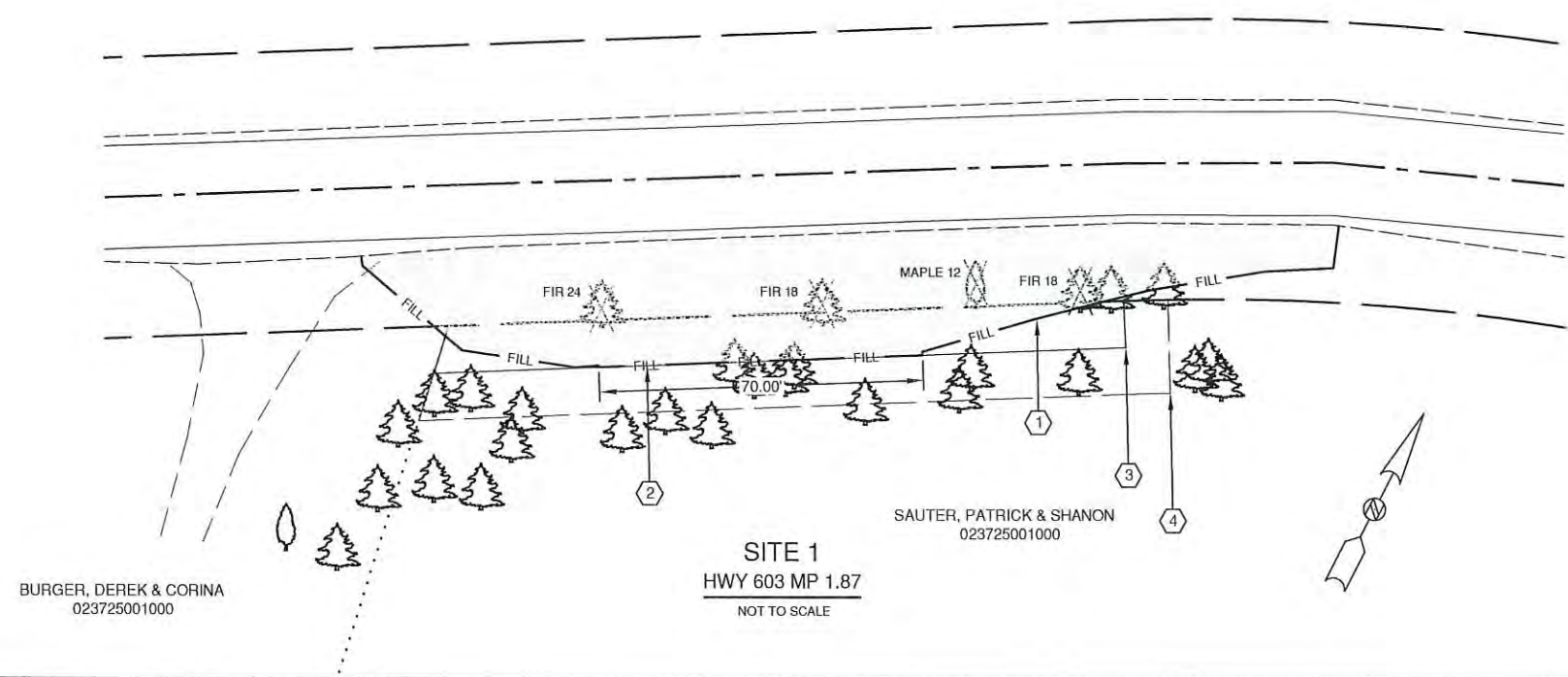


Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19

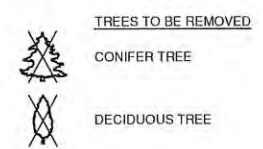


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LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

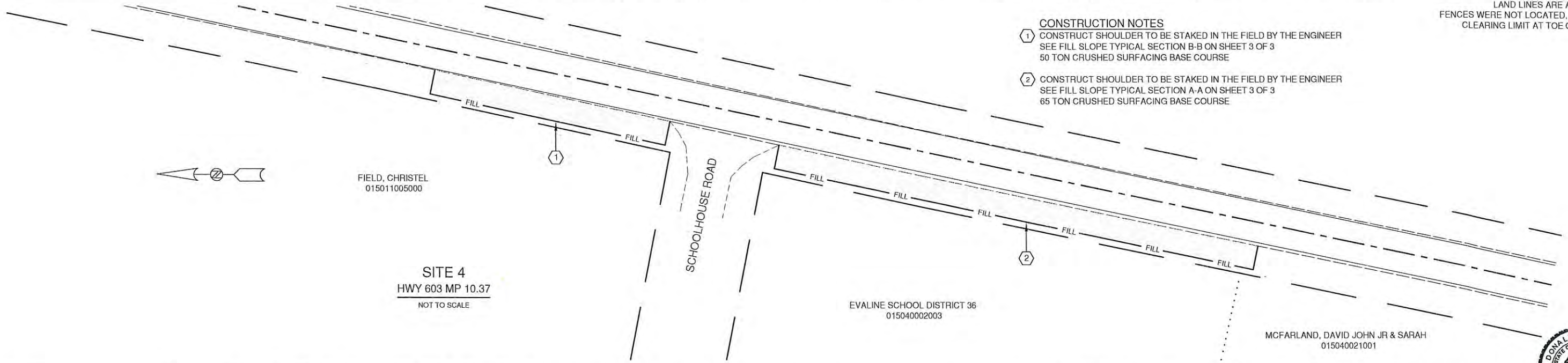


- CONSTRUCTION NOTES**
- 1 CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A ON SHEET 3 OF 3
290 TON CRUSHED SURFACING BASE COURSE
 - 2 STEEPEN SLOPE TO CATCH AT SLOPE EASEMENT AS STAKED IN THE FIELD BY THE ENGINEER
 - 3 150' OF 10' SLOPE EASEMENT
 - 4 163' OF 20' TEMPORARY CONSTRUCTION EASEMENT



SITE 2 & SITE 3 WERE REMOVED FROM PROJECT

LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



- CONSTRUCTION NOTES**
- 1 CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
50 TON CRUSHED SURFACING BASE COURSE
 - 2 CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A ON SHEET 3 OF 3
65 TON CRUSHED SURFACING BASE COURSE

Lewis County
Department of Public Works

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

NO.	DATE	REVISION	BY	APP.

DESIGNED BY : DJC
DRAWN BY : KLC
CHECKED BY :
DATE :

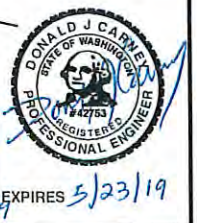
**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2185B
HWY 603 SITE 1 & 4

SHEET
HY2
OF
HY2



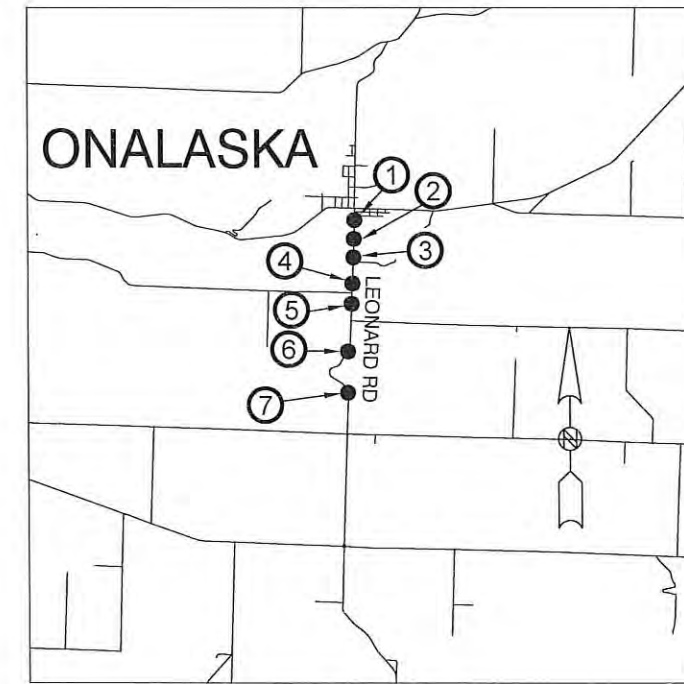
Donald J. Carney, P.E.
Senior Engineer/Design
Date: 3-27-19



LEONARD ROAD

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0050	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
3	0170	REMOVING GUARDRAIL	437.5	L.F.
4	0182	REMOVING GUARDRAIL ANCHOR	8	EACH
5	S.P.	CLEARING	LUMP SUM	LUMP SUM
GRADING				
6	0408	SELECT BORROW INCL. HAUL	0	TON
7	S.P.	STEPPED SLOPE CONSTRUCTION	0	TON
DRAINAGE				
8	1180	SCHEDULE A CULV. PIPE 12 IN. DIAM.	0	L.F.
SURFACING				
9	5100	CRUSHED SURFACING BASE COURSE	2942	TON
EROSION CONTROL AND ROADSIDE PLANTING				
10	6409	TOPSOIL TYPE C	0	ACRE
11	6414	SEEDING, FERTILIZING, AND MULCHING	0	ACRE
12	6479	WATTLE	3669	L.F.
TRAFFIC				
13	6711	BEAM GUARDRAIL TYPE 31 - 8 FT. LONG POST	837.5	L.F.
14	6712	BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	275	L.F.
15	S.P.	BEAM GUARDRAIL NON - FLARED TERMINAL	0	EACH
16	6719	BEAM GUARDRAIL TYPE 31 NON - FLARED TERMINAL	4	EACH
17	6733	BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2	0	L.F.
18	6751	BEAM GUARDRAIL TYPE 1	0	L.F.
19	6755	BEAM GUARDRAIL BLOCK	0	EACH
20	6757	BEAM GUARDRAIL TYPE 31	200	L.F.
21	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE B CONNECTION	2	EACH
22	6760	BEAM GUARDRAIL TRANSITION SECTION TYPE 4	0	EACH
23	6766	BEAM GUARDRAIL ANCHOR TYPE 10	2	EACH
24	6783	RAISING EXISTING BEAM GUARDRAIL	0	L.F.
25	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
26	S.P.	NEW BEAM GUARDRAIL SECTION TYPE 1	0	L.F.
27	S.P.	UNDERGROUND UTILITY VERIFICATION POTHOLE	173	EACH
OTHER ITEMS				
28	7490	TRIMMING AND CLEANUP	LUMP SUM	LUMP SUM
29	7562	MAILBOX SUPPORT TYPE 1	0	EACH
30	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	EST.
31	7728	MINOR CHANGE	CALC	CALC
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM



VICINITY MAP

NOT TO SCALE

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Lewis County
 Department of Public Works
 2025 NE KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY : DJC
 DRAWN BY : KLC
 CHECKED BY :
 DATE :

NO.	DATE	REVISION	BY	APP.

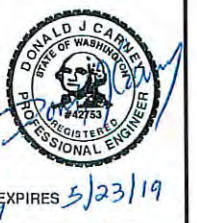
HIGHWAY SAFETY IMPROVEMENT PROGRAM PHASE II

FEDERAL-AID NO: HSIP-000S(479)
 COUNTY PROJECT NO: 2185B
 LEONARD ROAD
 SUMMARY OF QUANTITIES

SHEET
L1
 OF
L6



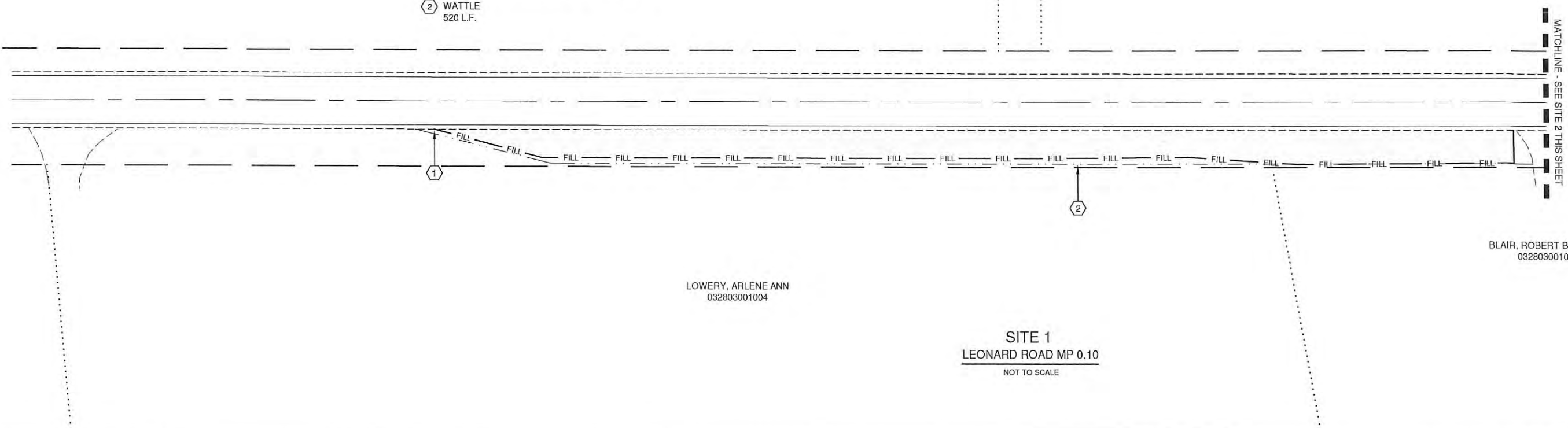
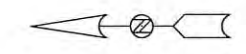
Donald J. Carney, P.E.
 Senior Engineer/Design
Donald J. Carney
 Date: 3-27-19



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LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
310 TON CRUSHED SURFACING BASE COURSE
 - ② WATTLE
520 L.F.



BLAIR, ROBERT B & DIANA
032803001006

LOWERY, ARLENE ANN
032803001004

SITE 1
LEONARD ROAD MP 0.10
NOT TO SCALE

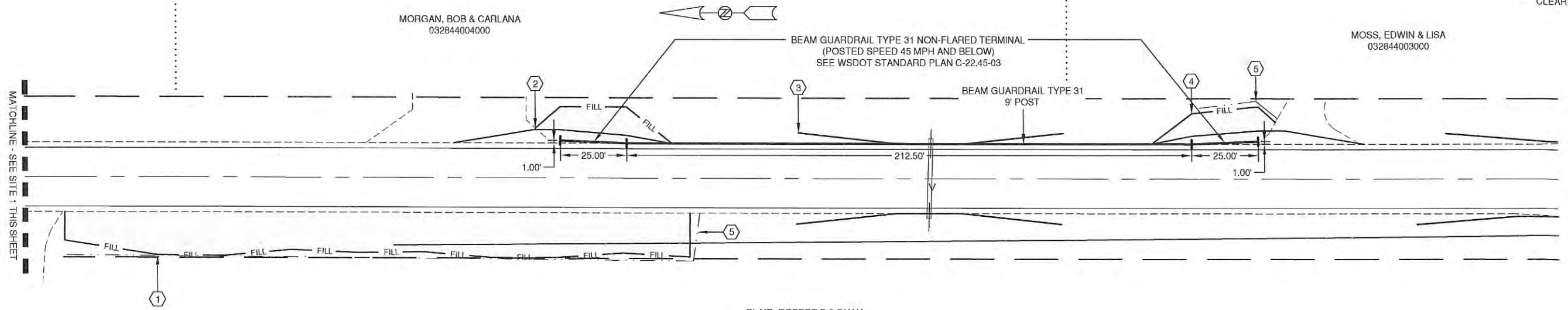
LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

MORGAN, BOB & CARLANA
032844004000

MOSS, EDWIN & LISA
032844003000

BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL
(POSTED SPEED 45 MPH AND BELOW)
SEE WSDOT STANDARD PLAN C-22.45-03

BEAM GUARDRAIL TYPE 31
9' POST



BLAIR, ROBERT B & DIANA
032803001006

SITE 2
LEONARD ROAD MP 0.20
NOT TO SCALE

- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
170 TON CRUSHED SURFACING BASE COURSE
 - ② CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
65 TON CRUSHED SURFACING BASE COURSE

- CONSTRUCTION NOTES**
- ③ REMOVE EXISTING BEAM GUARDRAIL AND ANCHORS
100.00 L.F. REMOVING GUARDRAIL
2.00 EACH REMOVING GUARDRAIL ANCHOR
 - ④ CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
60 TON CRUSHED SURFACING BASE COURSE
 - ⑤ WATTLE
287 L.F.

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DJC					
DRAWN BY :					
CGA					
CHECKED BY :					
DATE :					

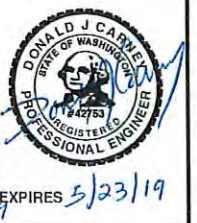
**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2185B
LEONARD ROAD SITE 1 & 2

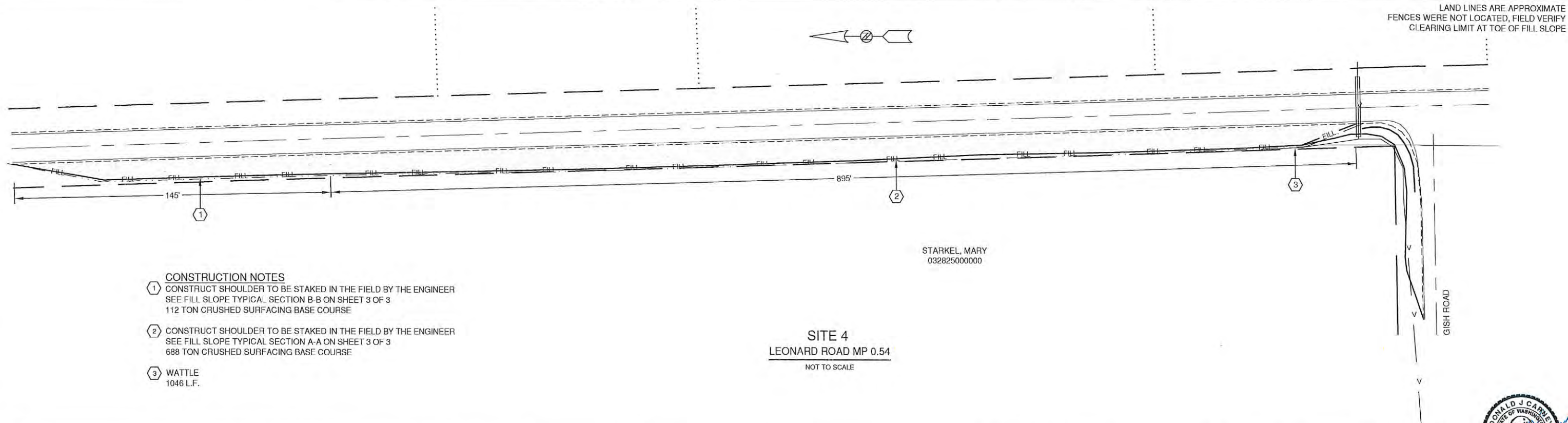
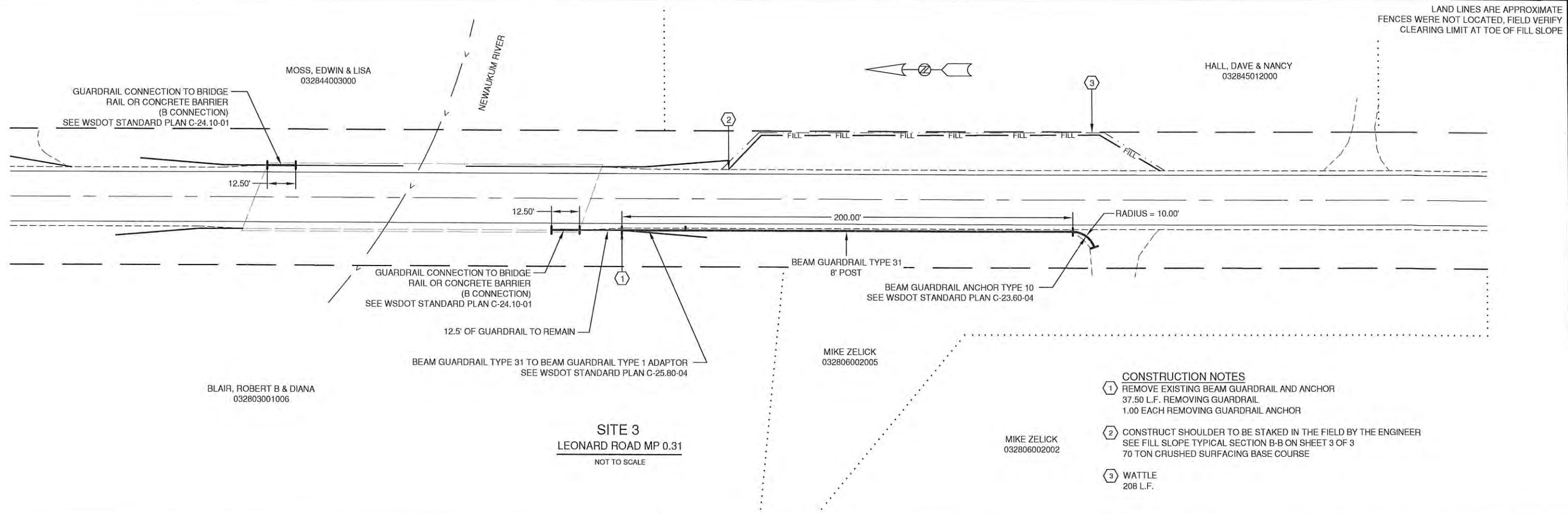
SHEET
L2
OF
L6



Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19



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Lewis County
Department of Public Works

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DRAWN BY: CGA					
CHECKED BY:					
DATE:					

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2185B
LEONARD ROAD SITE 3 & 4

SHEET
L3
OF
L6



Donald J. Carney, P.E.
Senior Engineer/Design

Donald J. Carney

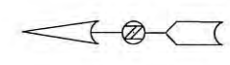
Date: 3-27-19

EXPIRES 5/23/19



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LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED. FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



BINION, CARL
032853001000

- CONSTRUCTION NOTES**
- ① CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
200 TON CRUSHED SURFACING BASE COURSE
 - ② WATTLE
456 L.F.

LUCAS, JIM & SHIRLEY
032854000000

BURCHETT ROAD

SITE 5
LEONARD ROAD MP 0.84
NOT TO SCALE

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CHEHALIS WA 98532
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FAX # (360) 740-2719

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DRAWN BY : CGA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

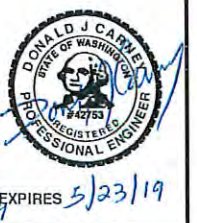
**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2185B
LEONARD ROAD SITE 5

SHEET
L4
OF
L6

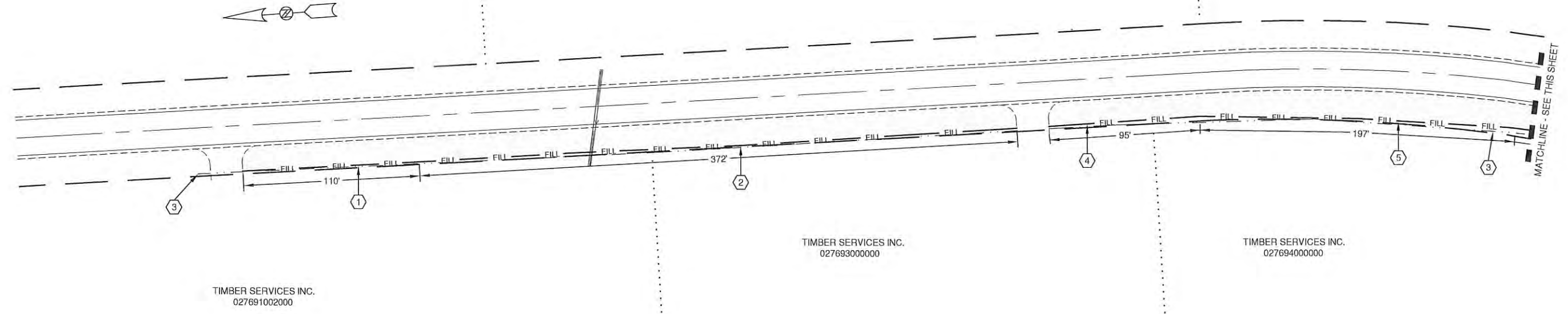


Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19



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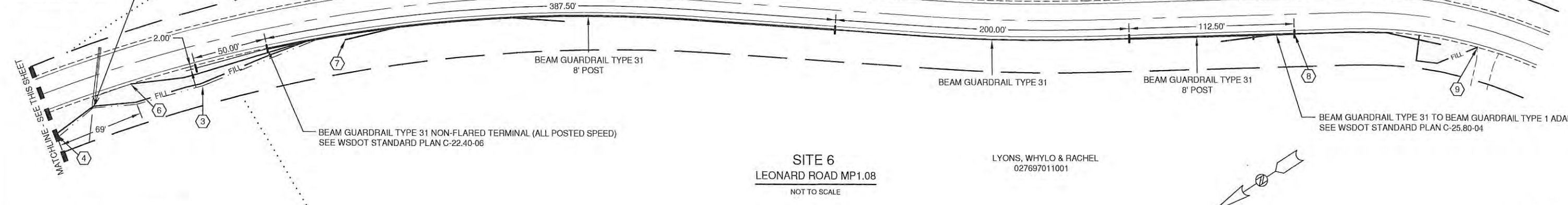
LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE



- CONSTRUCTION NOTES**
- 1 CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A ON SHEET 3 OF 3
145 TON CRUSHED SURFACING BASE COURSE
 - 2 CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
485 TON CRUSHED SURFACING BASE COURSE
 - 3 WATTLE
1005 L.F.
 - 4 CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION A-A ON SHEET 3 OF 3
170 TON CRUSHED SURFACING BASE COURSE
 - 5 CONSTRUCT SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE FILL SLOPE TYPICAL SECTION B-B ON SHEET 3 OF 3
206 TON CRUSHED SURFACING BASE COURSE

- CONSTRUCTION NOTES**
- 6 CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
139 TON CRUSHED SURFACING BASE COURSE
 - 7 REMOVE EXISTING BEAM GUARDRAIL AND ANCHORS
150.00 L.F. REMOVING BEAM GUARDRAIL
2.00 EACH REMOVING GUARDRAIL ANCHOR
 - 8 REMOVE EXISTING BEAM GUARDRAIL AND ANCHOR
END CONSTRUCT BEAM GUARDRAIL TYPE 31
50.00 L.F. REMOVING GUARDRAIL
1.00 EACH REMOVING GUARDRAIL ANCHOR
 - 9 CONSTRUCT LANDING AND SHOULDER TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
55 TON CRUSHED SURFACING BASE COURSE

MATCH FILL SLOPE AROUND
EXISTING 18 IN. CMP CULVERT



SITE 6
LEONARD ROAD MP1.08
NOT TO SCALE

LYONS, WHYLO & RACHEL
027697011001

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY: DJC
DRAWN BY: CGA
CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

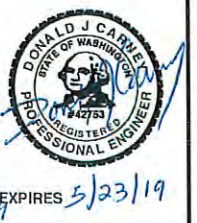
**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSIP-000S(479)
COUNTY PROJECT NO: 2185B
LEONARD ROAD SITE 6

SHEET
L5
OF
L6

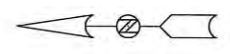


Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19

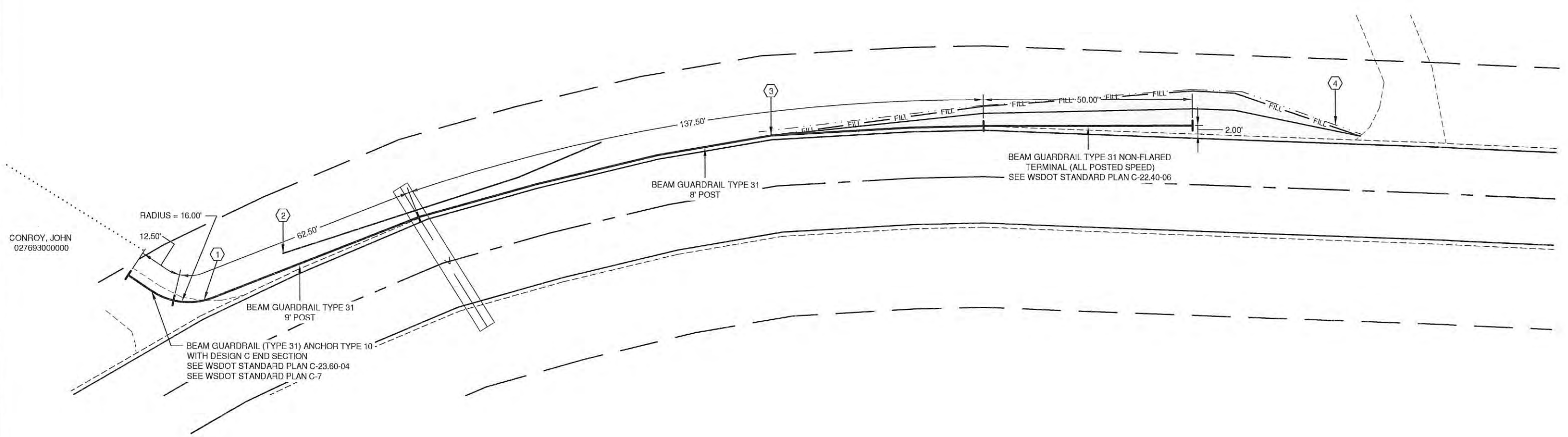


LAND LINES ARE APPROXIMATE
FENCES WERE NOT LOCATED, FIELD VERIFY
CLEARING LIMIT AT TOE OF FILL SLOPE

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LONG, ANTHONY & CAROL
027693000000



CONROY, JOHN
027693000000

- CONSTRUCTION NOTES**
- ① REMOVE ASPHALT AS NEEDED FOR POST PLACEMENT
L.S. REMOVAL OF STRUCTURES AND OBSTRUCTIONS
 - ② REMOVE EXISTING GUARDRAIL AND ANCHORS
100.00 L.F. REMOVING GUARDRAIL
2.00 EACH REMOVING GUARDRAIL ANCHOR
 - ③ CONSTRUCT LANDING TO BE STAKED IN THE FIELD BY THE ENGINEER
SEE GUARDRAIL TYPICAL SECTION ON SHEET 3 OF 3
70 TON CRUSHED SURFACING BASE COURSE
 - ④ WATTLE
147 L.F.

SITE 7
LEONARD ROAD MP 1.78
NOT TO SCALE

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CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

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CHECKED BY:
DATE:

NO.	DATE	REVISION	BY	APP.

**HIGHWAY SAFETY IMPROVEMENT
PROGRAM PHASE II**

FEDERAL-AID NO: HSP-000S(479)
COUNTY PROJECT NO: 2185B
LEONARD ROAD SITE 7

SHEET
L6
OF
L6



Donald J. Carney, P.E.
Senior Engineer/Design
Donald J. Carney
Date: 3-27-19

